



Full wwPDB EM Validation Report ⓘ

Mar 17, 2026 – 07:10 PM UTC

PDB ID : 1O1C / pdb_00001o1c
EMDB ID : EMD-1001
Title : MOLECULAR MODELS OF AVERAGED RIGOR CROSSBRIDGES FROM
TOMOGRAMS OF INSECT FLIGHT MUSCLE
Authors : Chen, L.F.; Winkler, H.; Reedy, M.K.; Reedy, M.C.; Taylor, K.A.
Deposited on : 2002-11-18
Resolution : 70.00 Å(reported)
Based on initial models : 1ATN, 2MYS

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : **NOT EXECUTED**
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

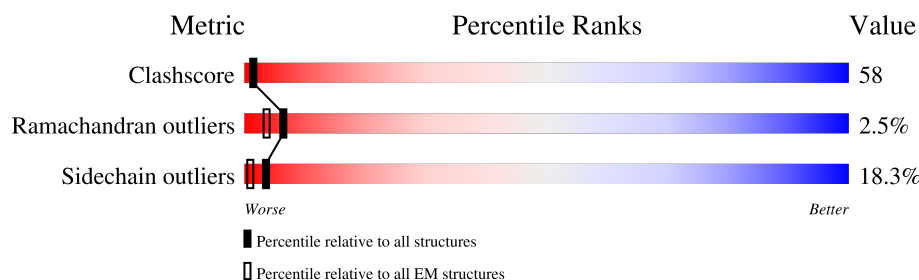
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 70.00 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	840	100% 25% 48% 23% .
1	D	840	100% 25% 49% 22% .
1	G	840	100% 24% 50% 22% .
1	J	840	100% 24% 49% 22% .
1	P	840	100% 24% 49% 22% .
2	B	145	100% 65% 26% 6% .
2	E	145	100% 64% 26% 6% .
2	H	145	100% 61% 30% 5% .

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Mol	Chain	Length	Quality of chain
2	K	145	
2	Q	145	
3	C	147	
3	F	147	
3	I	147	
3	L	147	
3	R	147	
4	0	375	
4	1	375	
4	2	375	
4	3	375	
4	4	375	
4	5	375	
4	7	375	
4	8	375	
4	9	375	
4	V	375	
4	W	375	
4	X	375	
4	Y	375	
4	Z	375	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	MLY	A	505	-	-	X	-
1	MLY	A	553	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	MLY	A	764	-	-	X	-
1	MLY	A	782	-	-	X	-
1	MLY	A	837	-	-	X	-
1	MLY	A	839	-	-	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	764	-	-	X	-
1	MLY	G	84	-	-	X	-
1	MLY	J	505	-	-	X	-
1	MLY	J	553	-	-	X	-
1	MLY	J	839	-	-	X	-
1	MLY	J	84	-	-	X	-
1	MLY	P	505	-	-	X	-
1	MLY	P	839	-	-	X	-
1	MLY	P	84	-	-	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 85919 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	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	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		

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

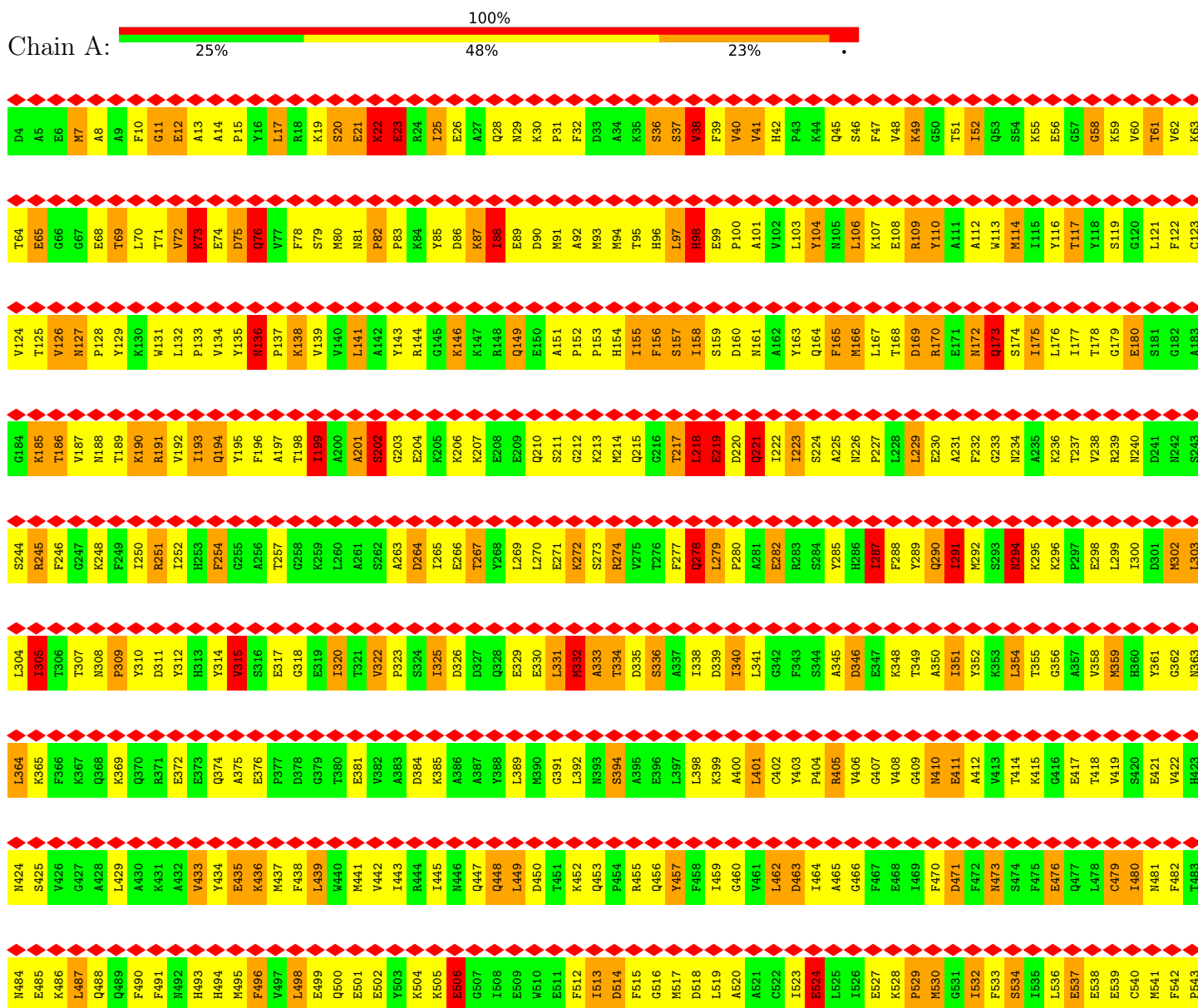
- Molecule 4 is a protein called SKELETAL MUSCLE ACTIN.

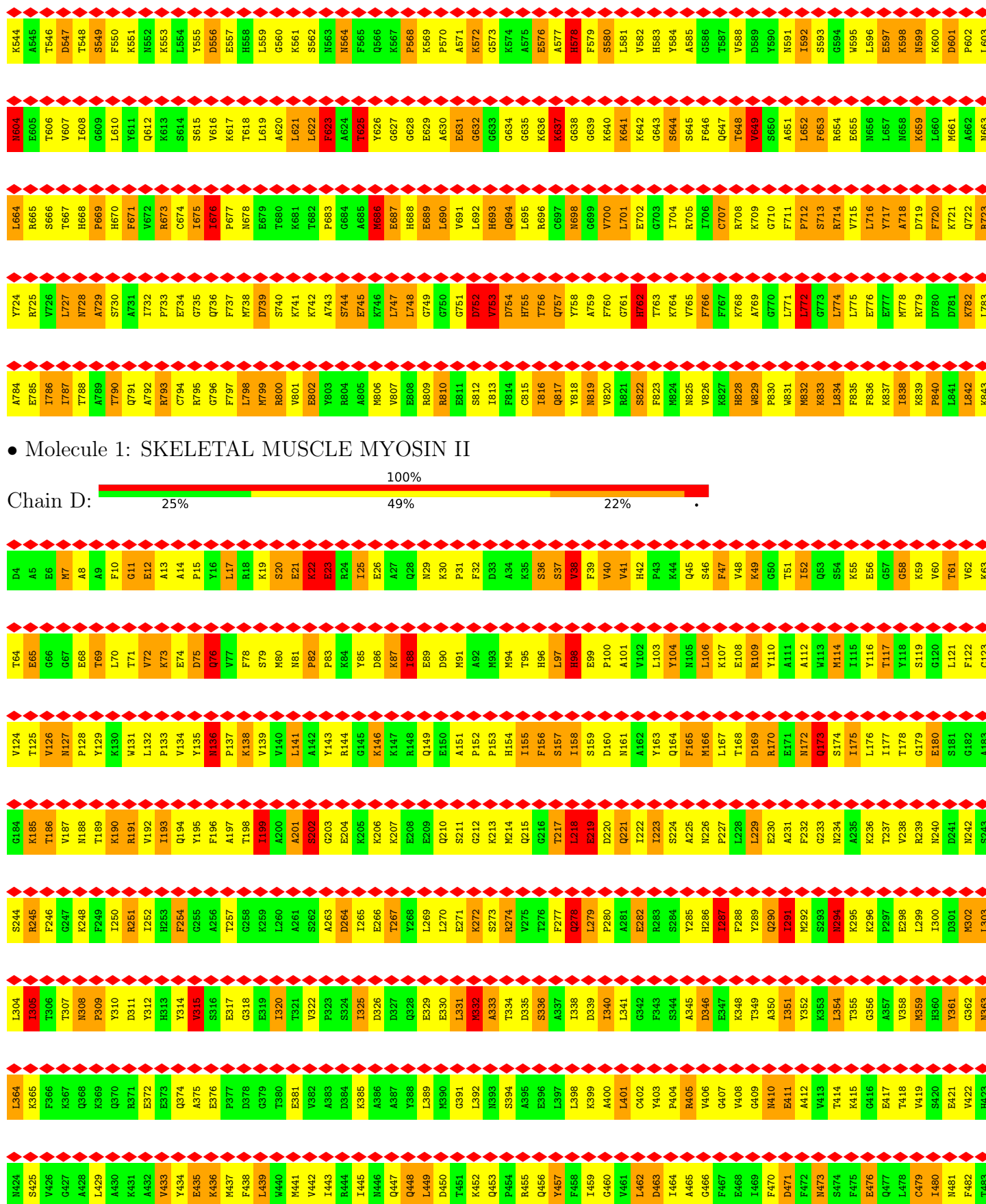
Mol	Chain	Residues	Atoms					AltConf	Trace
4	0	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	1	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	2	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	3	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	4	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20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

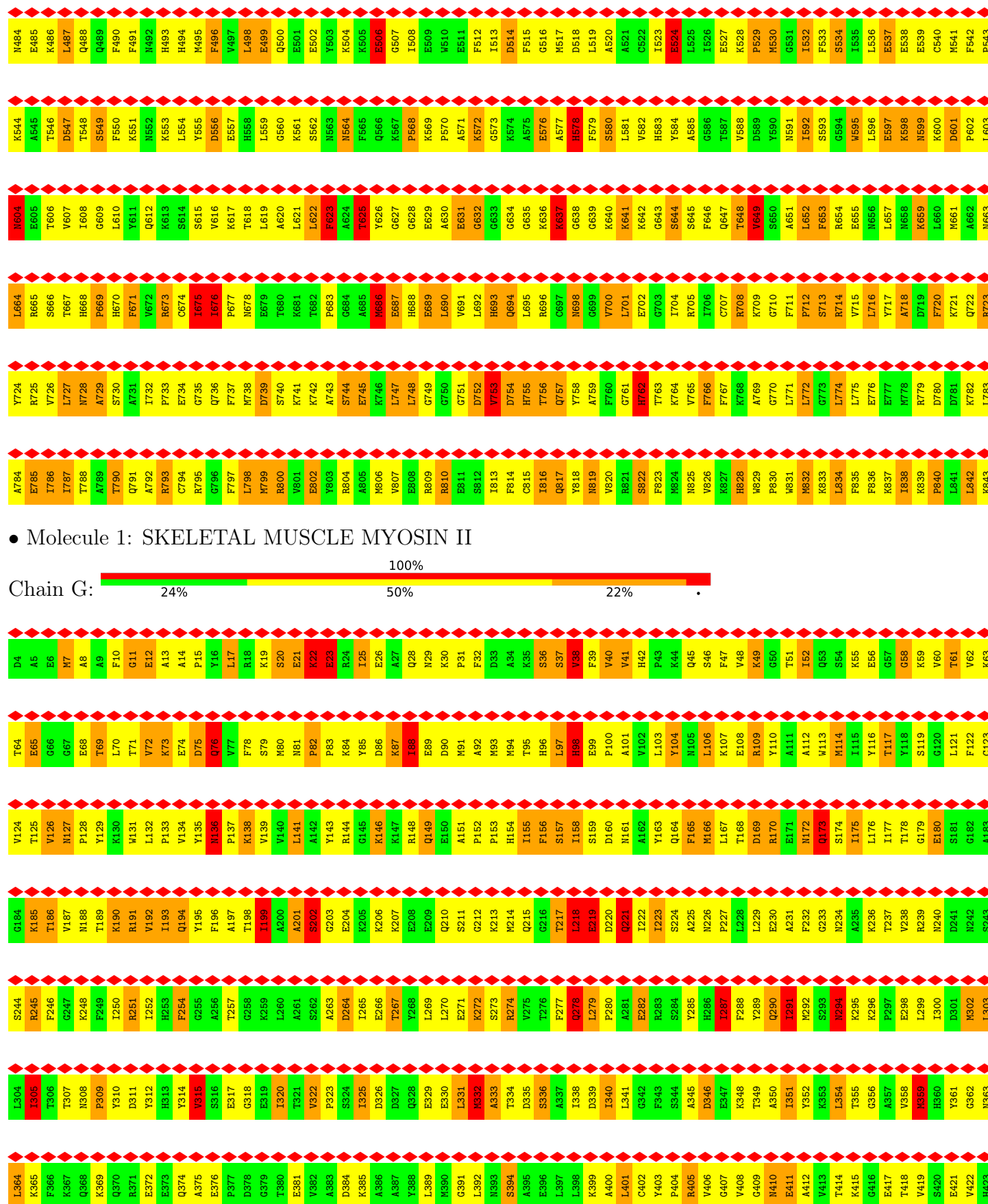
3 Residue-property plots

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





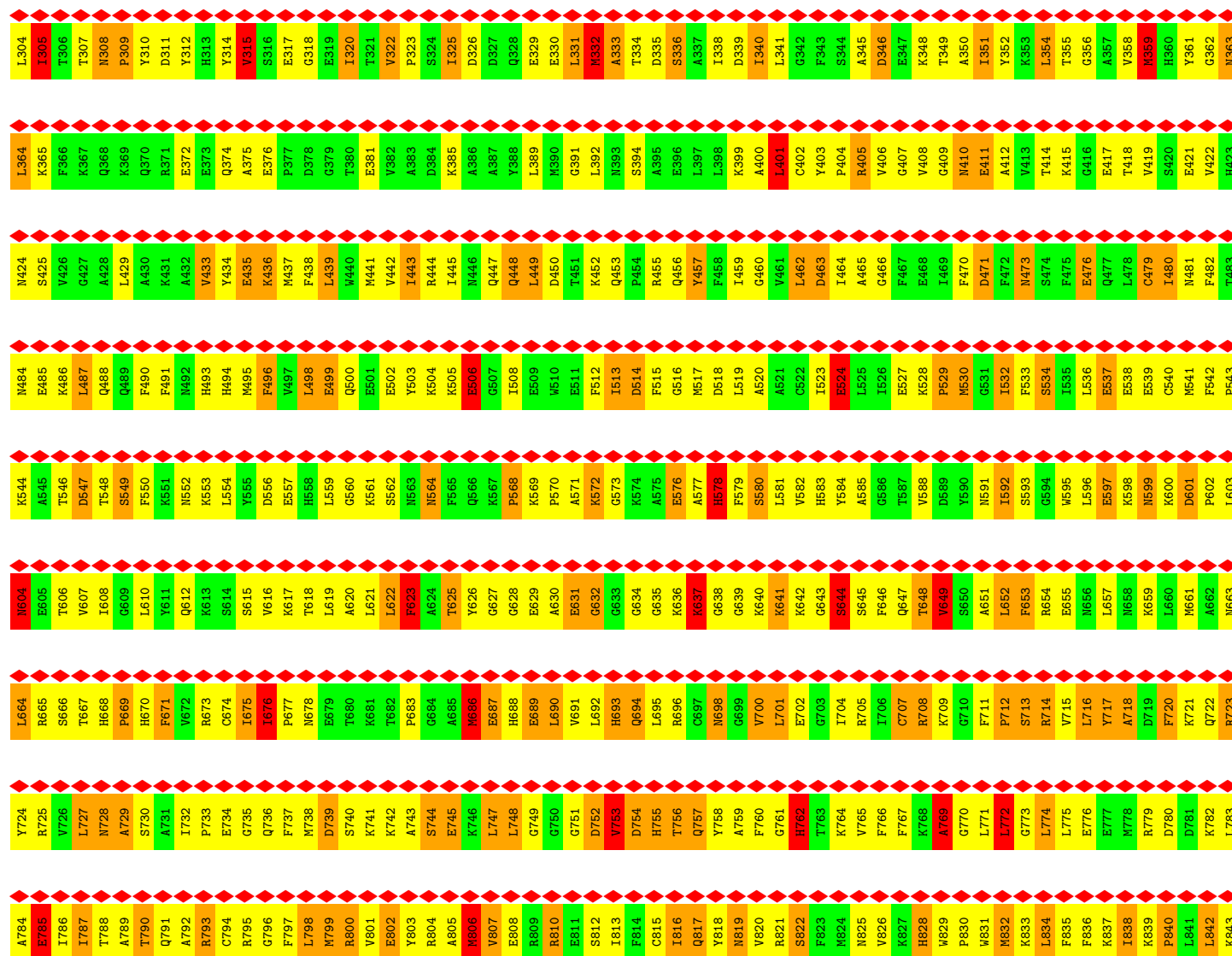


A784	E785	I786	T787	T788	A789	T790	Q791	A792	R793	C794	R795	G796	F797	L798	M799	R800	V801	E802	Y803	R804	A805	M806	E807	E808	R809	R810	E811	S812	L813	F814	C815	L816	Q817	Y818	N819	V820	R821	S822	F823	M824	N825	V826	K827	H828	V829	P830	M831	M832	L833	L834	F835	P836	K837	T838	K839	P840	L841	L842	L843	
Y724	R725	V726	L727	M728	A729	S730	A731	I732	P733	E734	G735	Q736	F737	M738	D739	S740	K741	T742	P743	S744	E745	K746	L747	L748	G749	G750	G751	D752	V753	D754	H755	T756	Q757	Y758	A759	F760	G761	R762	T763	K764	V765	F766	F767	K768	A769	G770	L771	L772	G773	L774	L775	E776	E777	M778	R779	D780	D781	K782	L783	
L664	R665	S666	T667	H668	P669	H670	F671	V672	K673	C674	I675	T676	P677	N678	E679	T680	K681	T682	P683	G684	A685	M686	E687	H688	E689	L690	V691	L692	H693	Q694	L695	R696	G697	N698	G699	V700	L701	E702	G703	I704	R705	I706	F707	R708	K709	G710	F711	P712	S713	R714	V715	L716	Y717	A718	D719	F720	K721	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	Q548	S549	F550	K551	N552	K553	L554	Y555	D556	E557	H558	L559	G560	K561	S562	N563	N564	F565	Q566	G567	P568	K569	P570	A571	K572	I573	K574	A575	E576	A577	H578	F579	S580	L581	V582	H583	Y584	A585	G586	T587	V588	D589	Y590	N591	I592	F593	S593	G594	N595	L596	E597	K598	N599	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	G507	I508	E509	W510	E511	F512	I513	D514	F515	G516	N517	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	W440	M441	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	Q476	Q477	L478	C479	I480	M481	F482	T483	
L364	K365	F366	K367	Q368	K369	Q370	Q371	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	E421	V422	H423	

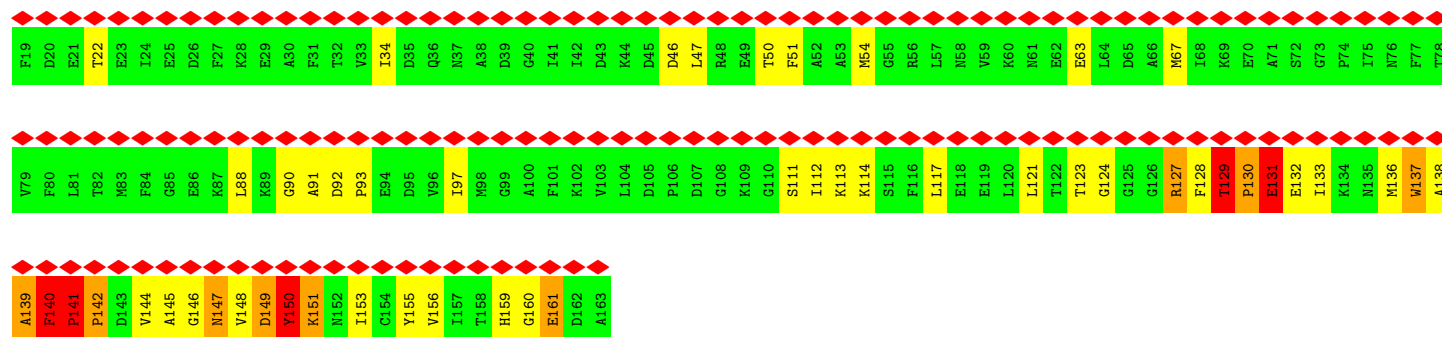
• Molecule 1: SKELETAL MUSCLE MYOSIN II



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	L287	F288	Y289	Q290	I291	M292	S293	N294	K295	K296	P297	E298	L299	I300	D301	M302	L303
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
V124	T125	V126	N127	P128	Y129	K130	V131	L132	P133	V134	Y135	N136	K137	K138	V139	V140	L141	A142	Y143	R144	G145	K146	K147	R148	Q149	E150	A151	P152	P153	H154	I155	F156	S157	I158	S159	D160	N161	A162	Y163	Q164	F165	M166	L167	T168	D169	R170	E171	N172	Q173	S174	I175	L176	T177	T178	G179	E180	S181	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	I88	E89	D90	M91	A92	M93	M94	T95	H96	L97	H98	E99	P100	A101	V102	L103	Y104	N105	L106	K107	E108	R109	Y110	A111	A112	Y113	M114	I115	Y116	T117	Y118	S119	G120	L121	F122	C123
D4	A5	E6	M7	A8	A9	F10	G11	E12	A13	A14	P15	Y16	L17	R18	K19	S20	E21	K22	E23	R24	I25	E26	Q28	A27	Q28	N29	K30	P31	A32	D33	A34	K35	S36	S37	V38	F39	V40	A41	H42	P43	K44	Q45	S46	F47	V48	A49	G50	T51	I52	Q53	S54	K55	G58	K59	V60	T61	V62	K63	

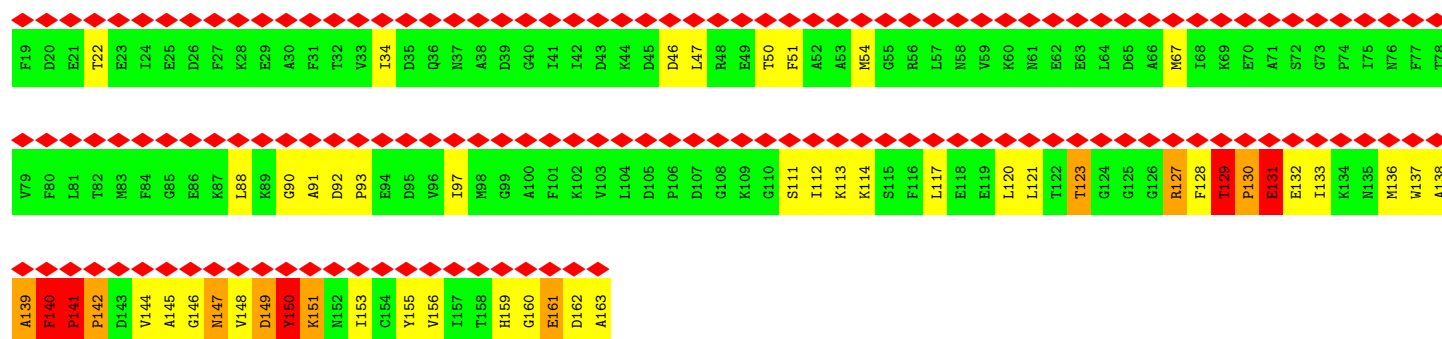


• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

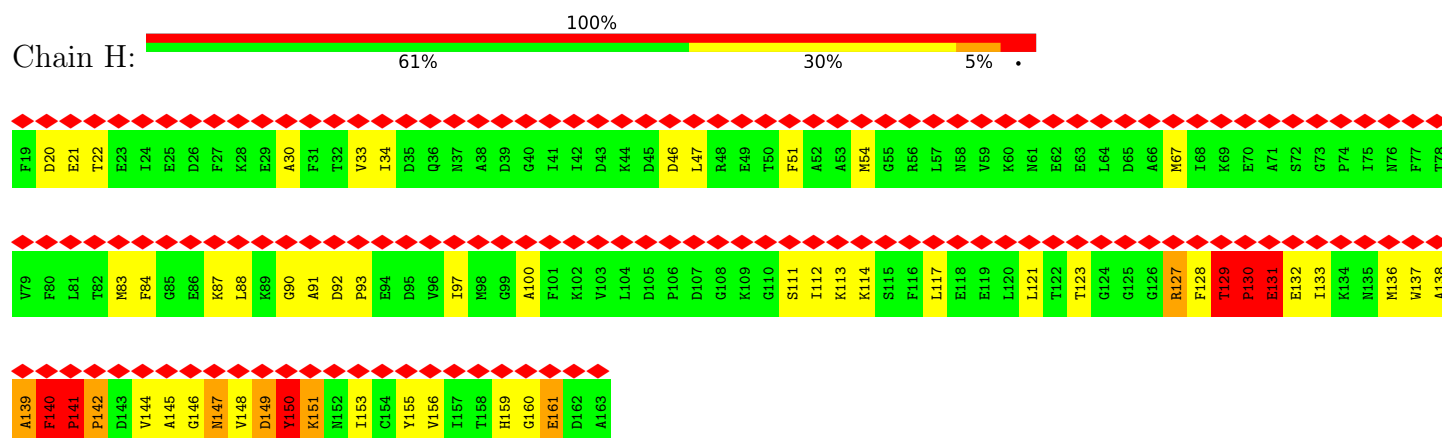


• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

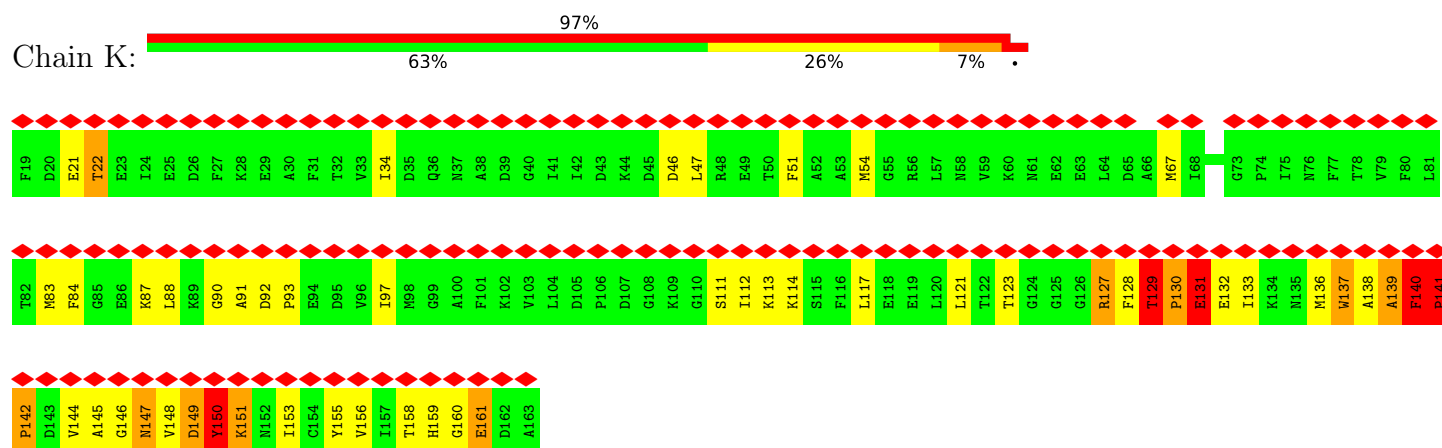




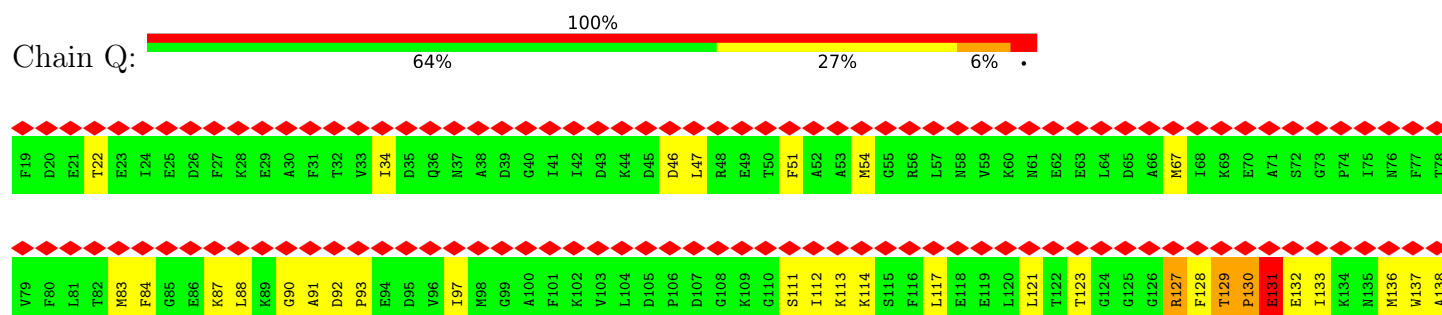
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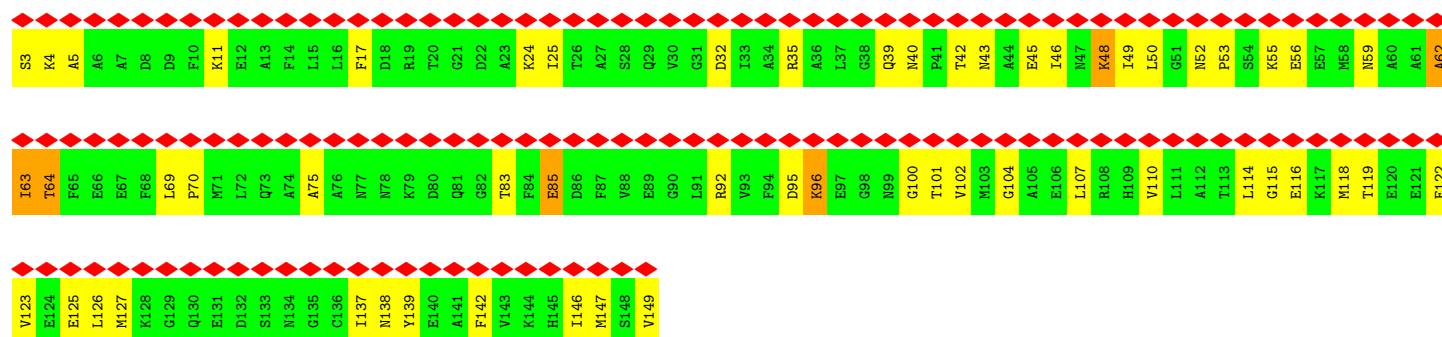


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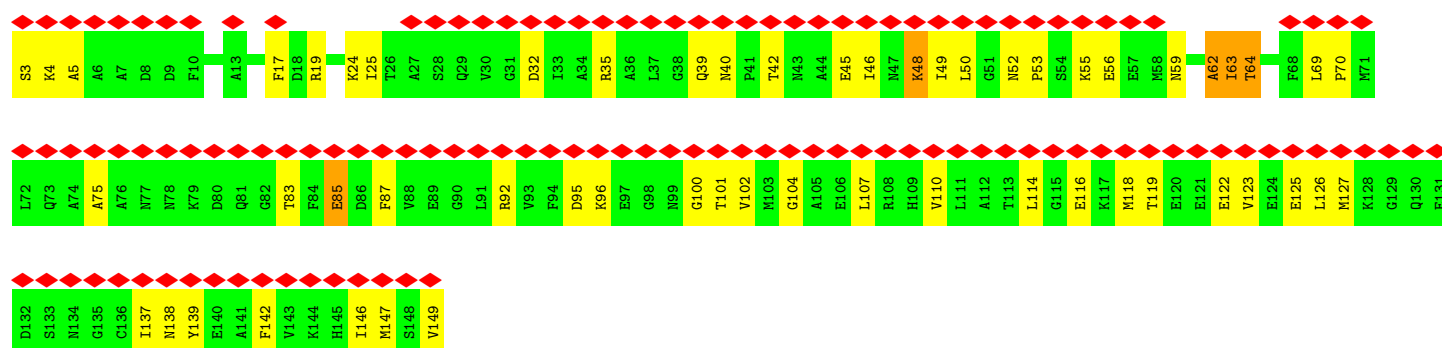
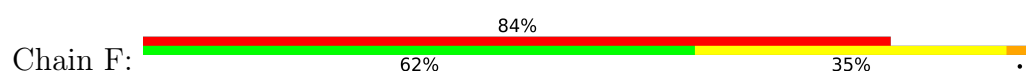




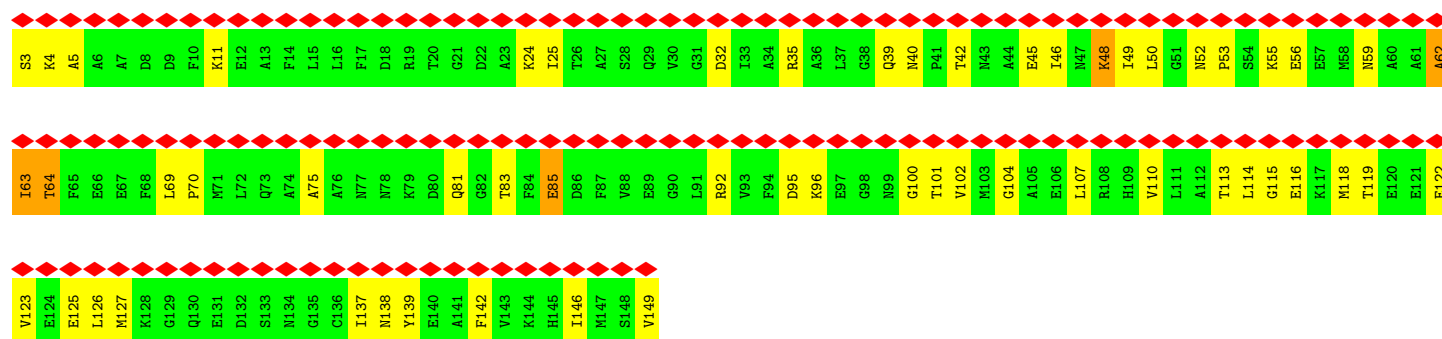
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



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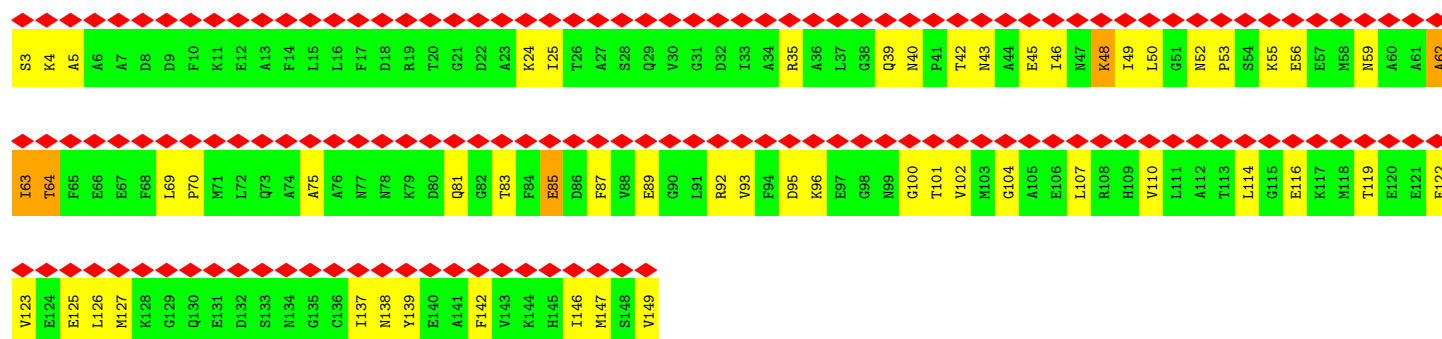


• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

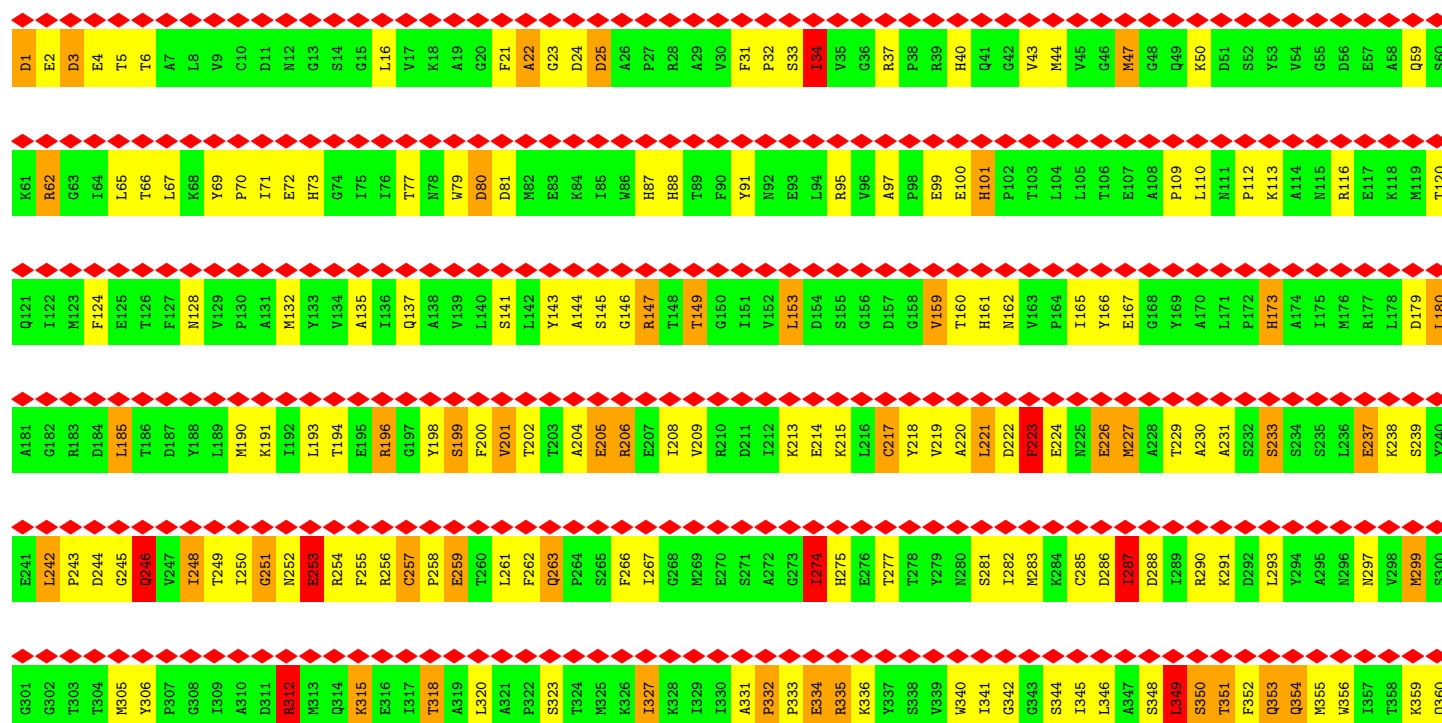


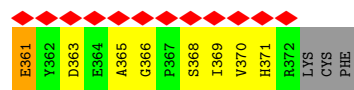


● Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

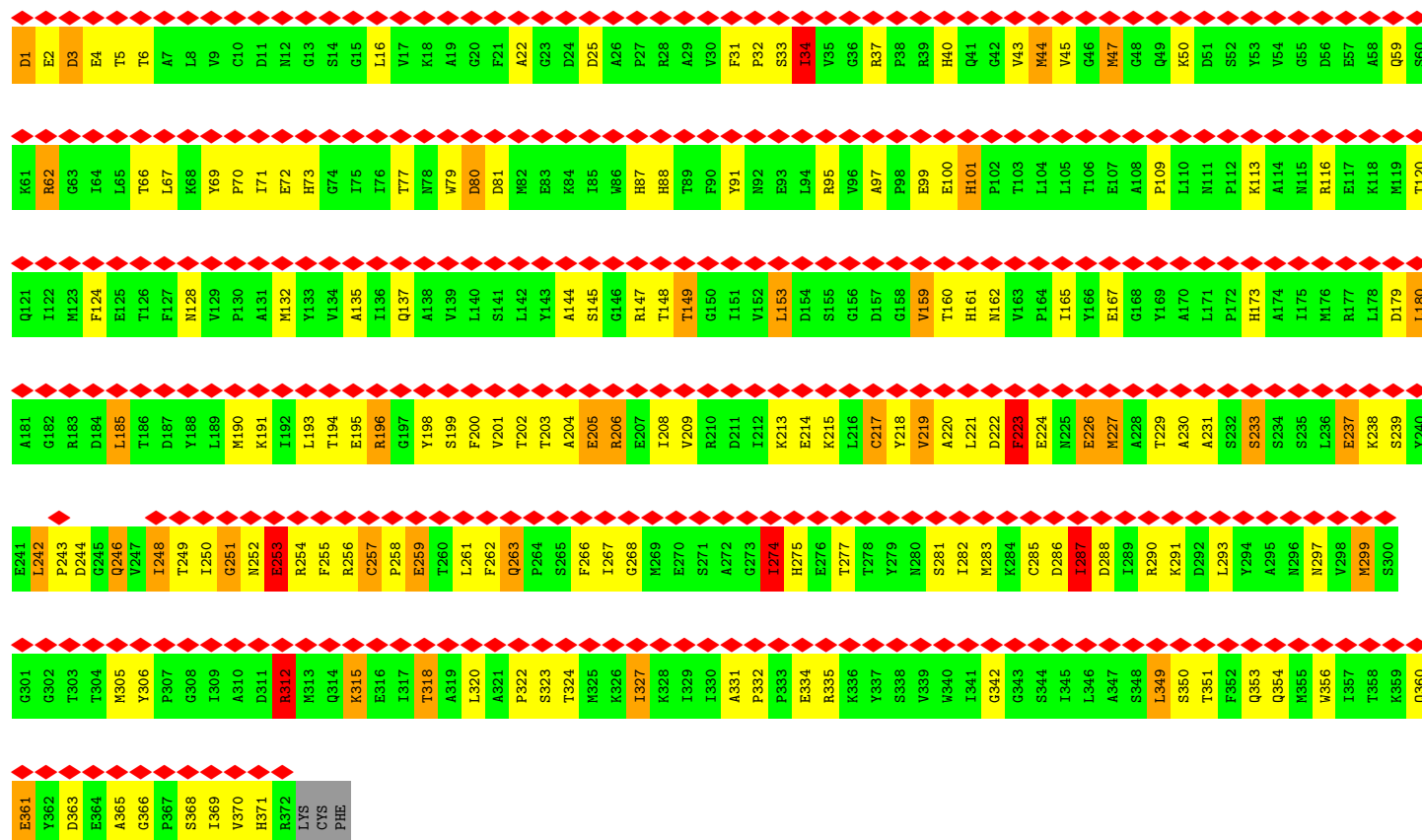


● Molecule 4: SKELETAL MUSCLE ACTIN

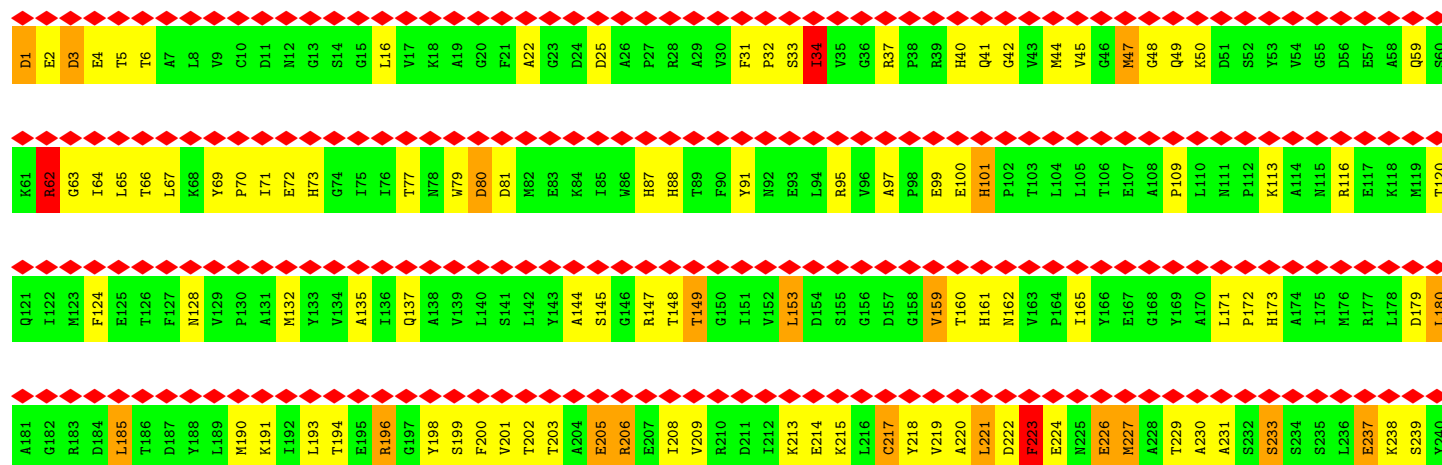


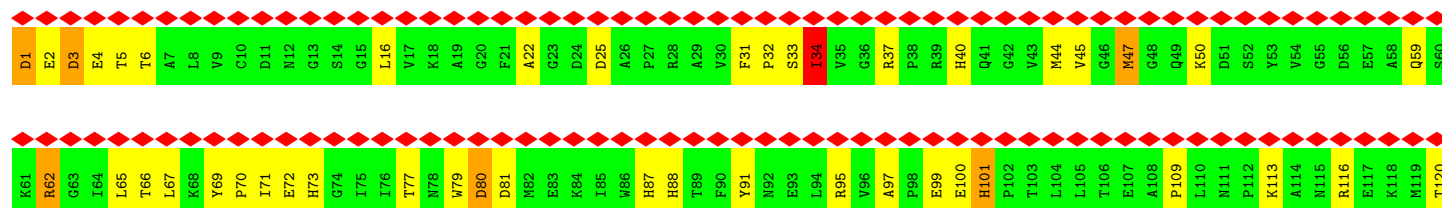


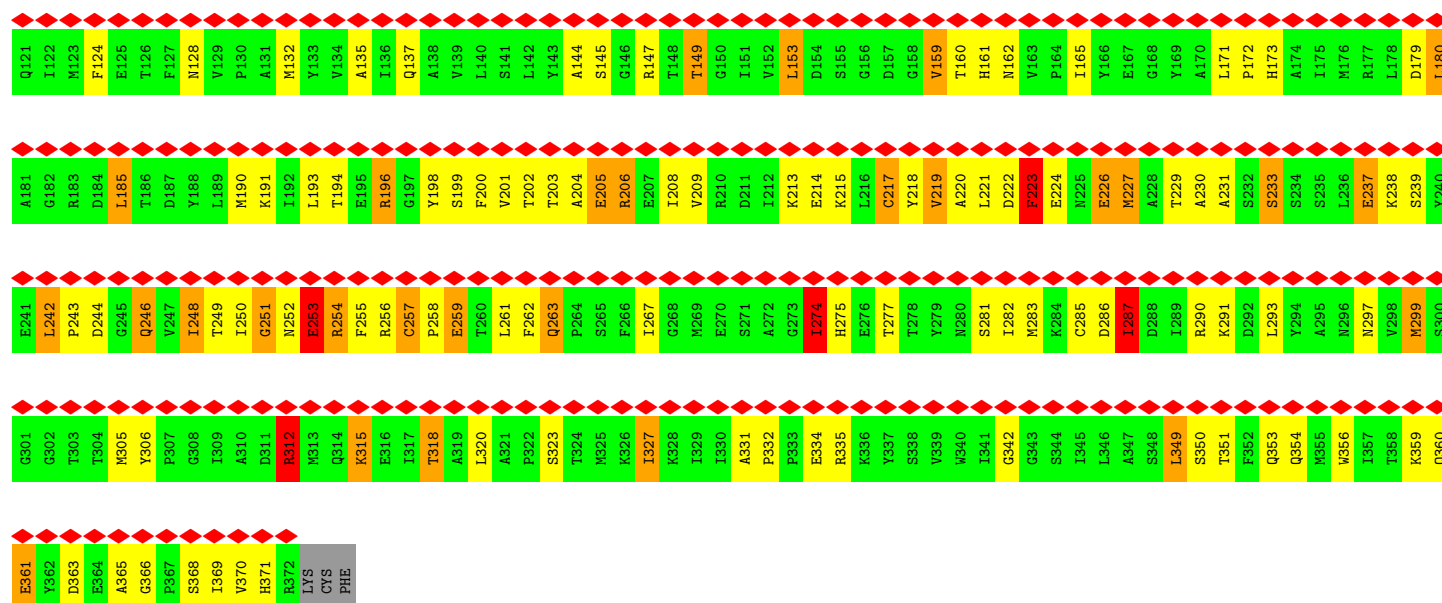
• Molecule 4: SKELETAL MUSCLE ACTIN



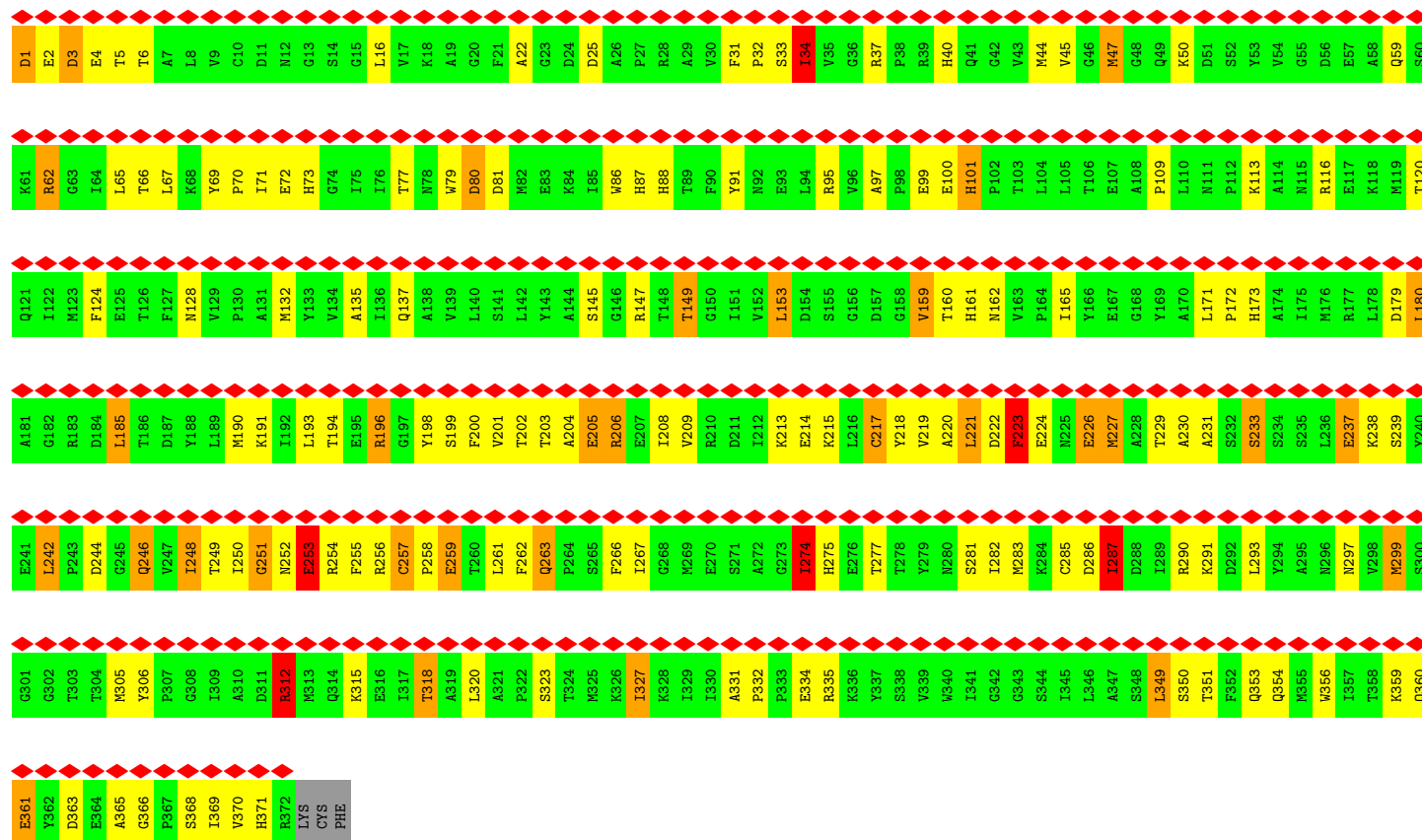
• Molecule 4: SKELETAL MUSCLE ACTIN





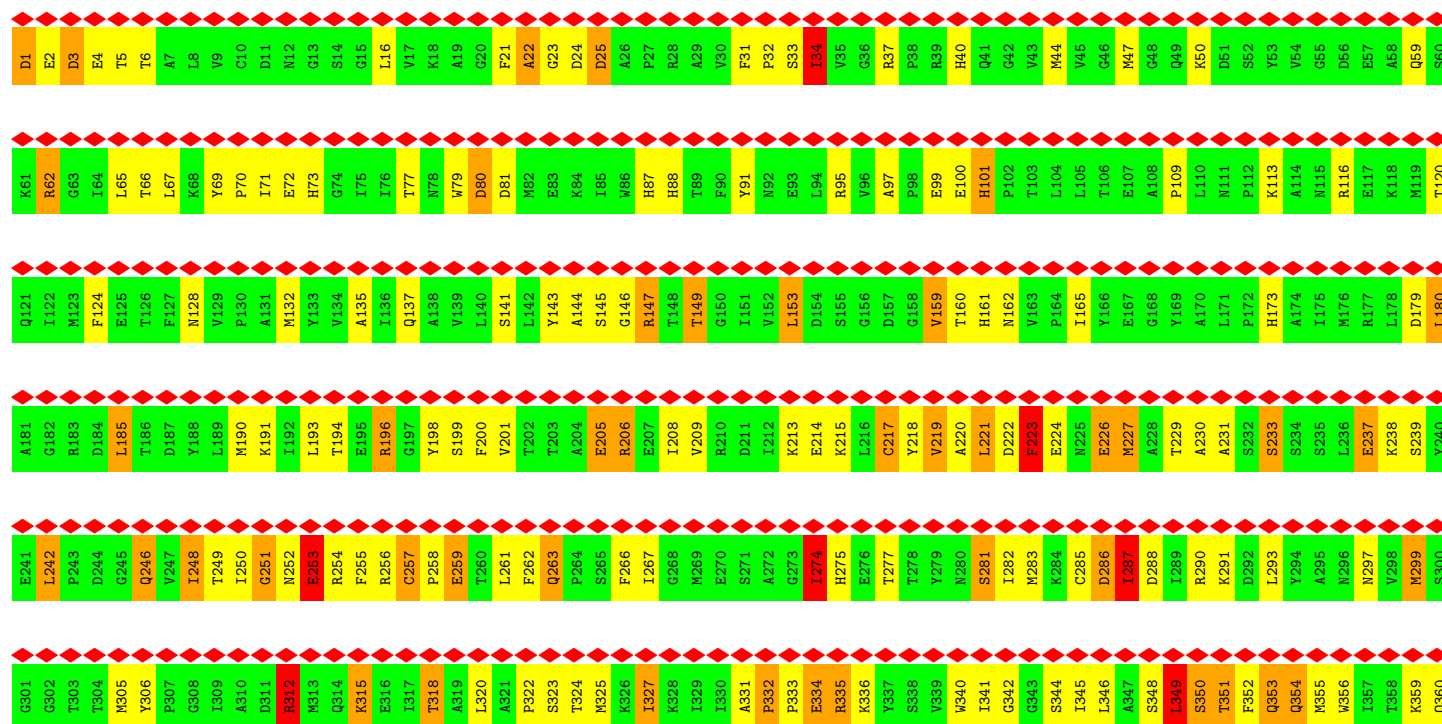


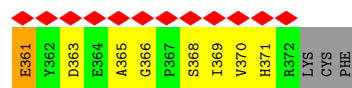
• Molecule 4: SKELETAL MUSCLE ACTIN



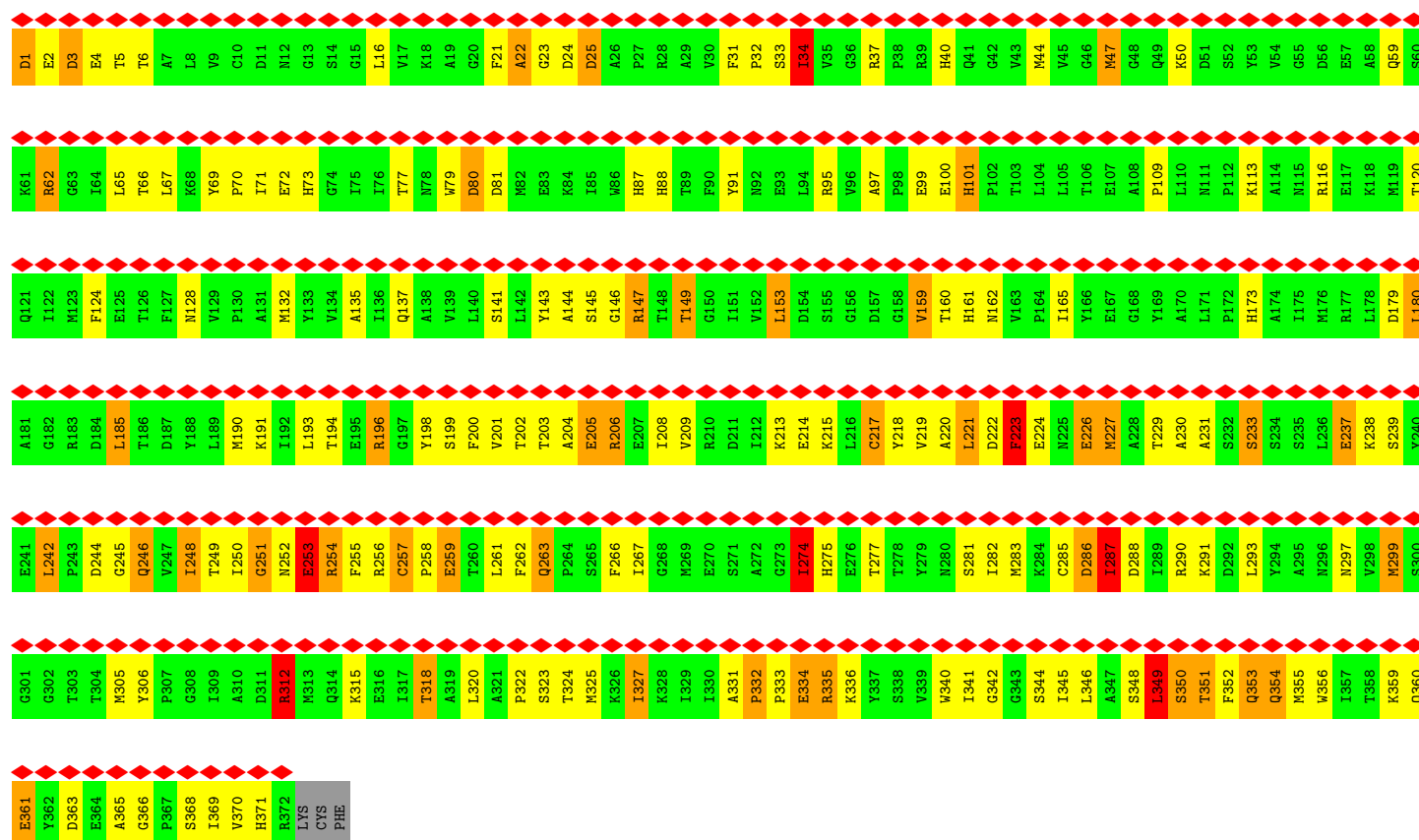
• Molecule 4: SKELETAL MUSCLE ACTIN



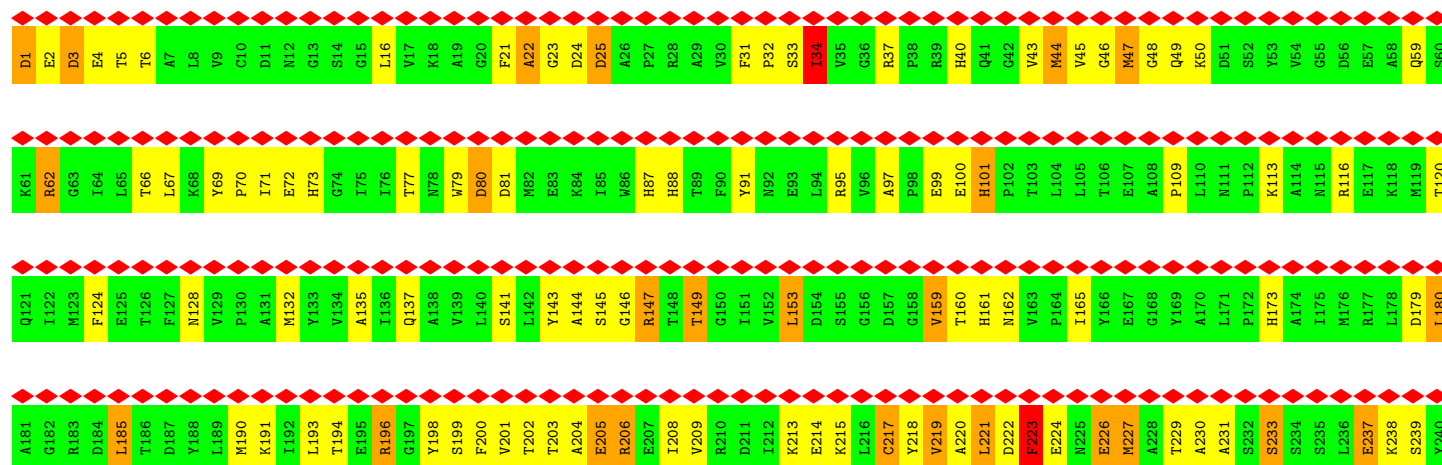


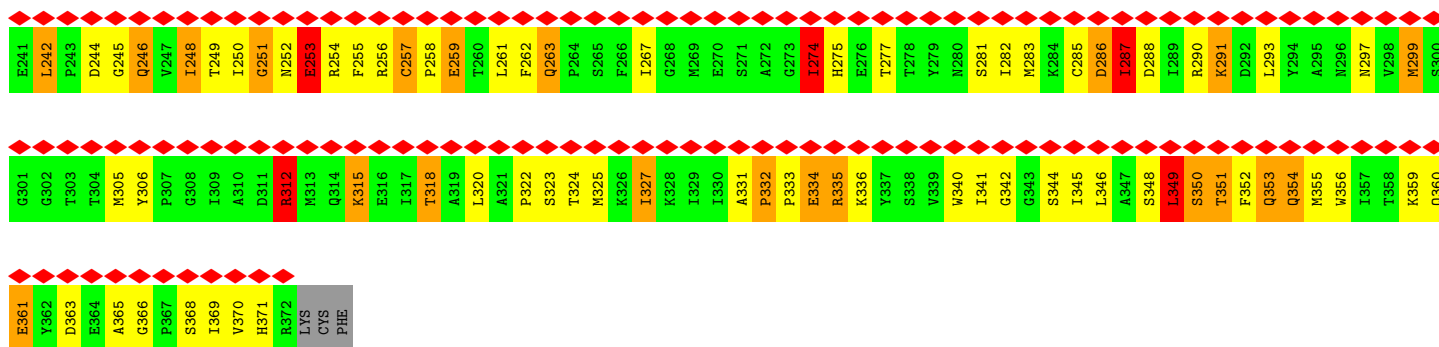


• Molecule 4: SKELETAL MUSCLE ACTIN

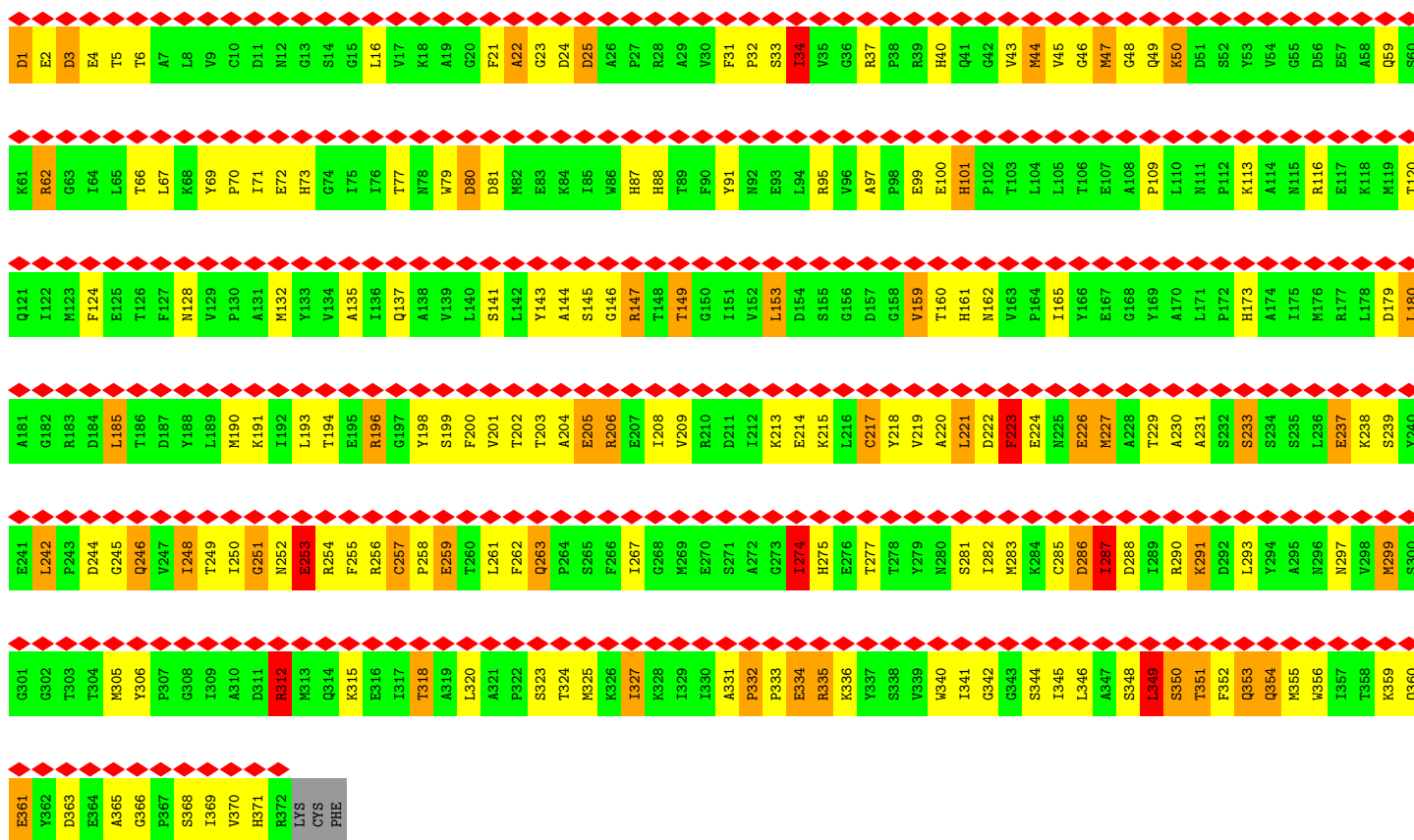


• Molecule 4: SKELETAL MUSCLE ACTIN

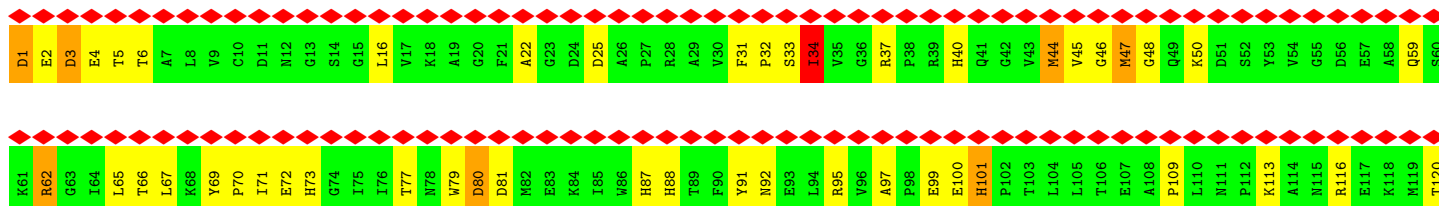


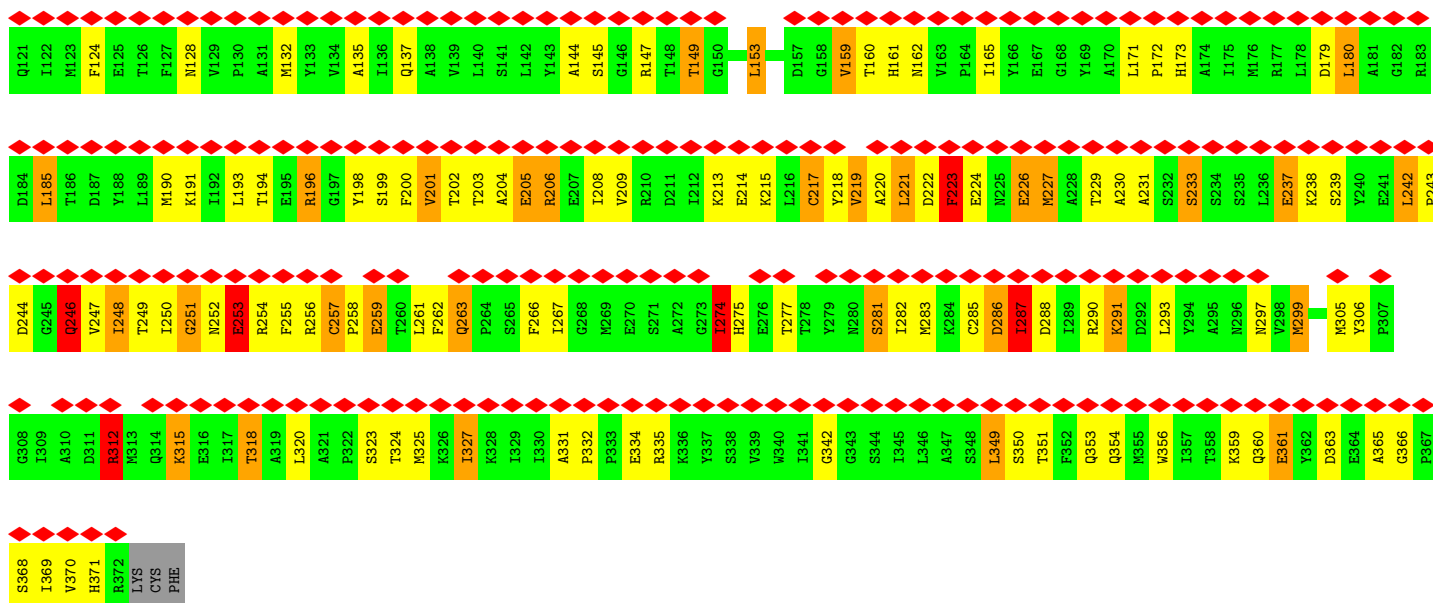


• Molecule 4: SKELETAL MUSCLE ACTIN

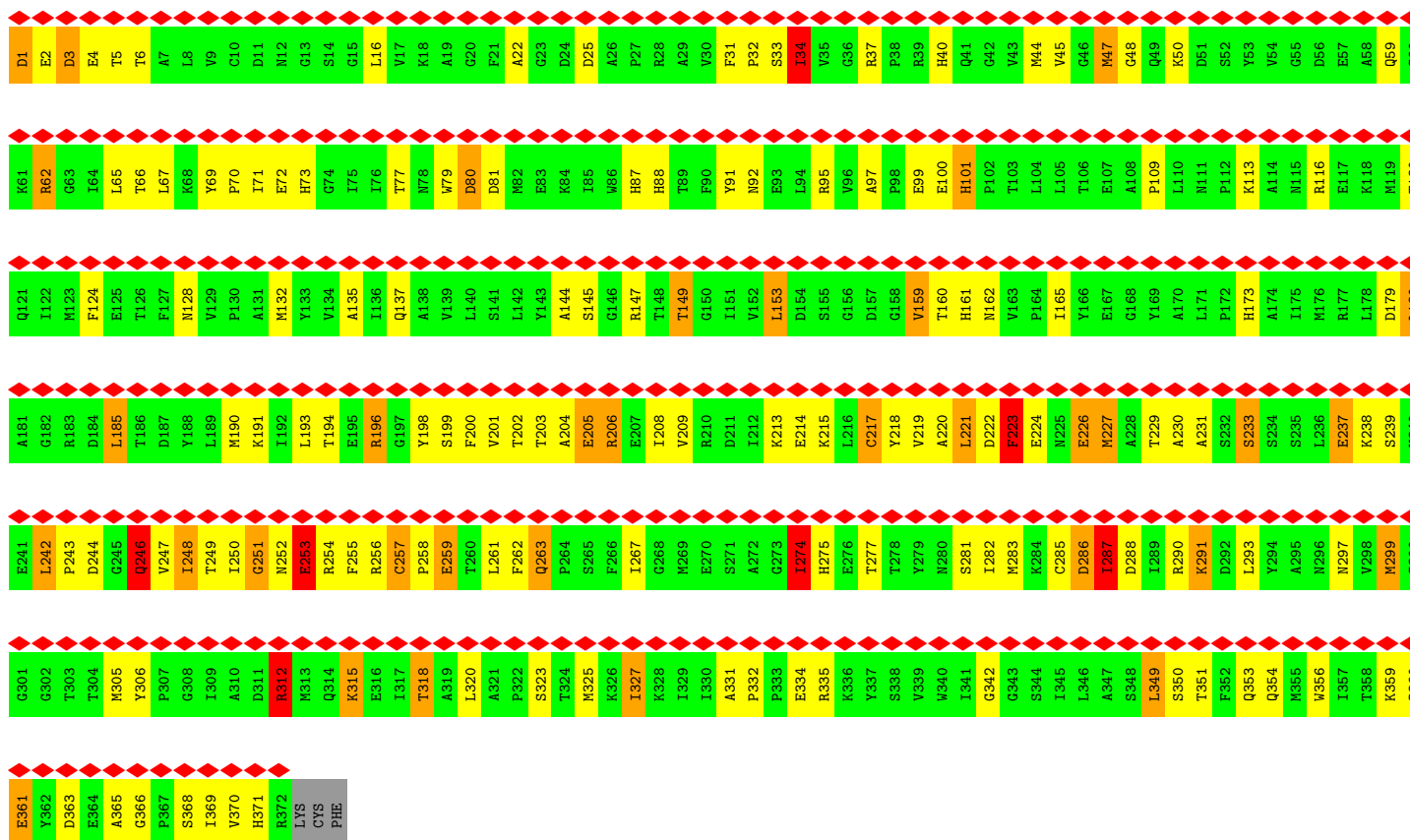


• Molecule 4: SKELETAL MUSCLE ACTIN





• Molecule 4: SKELETAL MUSCLE ACTIN



• Molecule 4: SKELETAL MUSCLE ACTIN



E361	G301	E241	A181	Q121	K61	D1
Y562	G302	L242	G182	I122	R62	E2
D363	T303	R183	P243	M123	G63	D3
E564	T304	D244	D184	F124	T64	E4
A365	M305	G245	L185	E125	L65	T5
G366	Y306	Q246	T186	T126	T66	T6
P367	P307	V247	D187	F127	L67	A7
G368	G308	I248	T188	M128	K68	L8
I369	T309	T249	L189	V129	V69	V9
V370	A310	I250	M190	P130	P70	C10
H371	D311	G251	K191	A131	I71	D11
R372	R312	N252	I192	M132	E72	M12
LYS	M313	E253	L193	Y133	H73	G13
CYS	Q314	R254	T194	V134	G74	S14
PHE	K315	F255	E195	A135	I75	G15
	E316	R256	L196	I136	I76	L16
	I317	C257	G197	Q137	T77	V17
	T318	P258	Y198	A138	K78	K18
	A319	E259	S199	V139	W79	A19
	L320	T260	F200	L140	D80	G20
	A321	L261	V201	S141	D81	F21
	P322	F262	T202	L142	H82	A22
	S323	Q263	T203	Y143	E83	G23
	T324	P264	A204	A144	K84	D24
	M325	S265	E205	S145	L85	D25
	K326	F266	R206	G146	H86	A26
	I327	I267	E207	R147	H87	P27
	K328	G268	T208	T148	H88	R28
	I329	M269	V209	T149	T89	A29
	I330	E270	R210	G150	F90	V30
	A331	S271	D211	I151	Y91	F31
	P332	A272	T212	V152	N92	P32
	P333	G273	K213	L153	E93	S33
	E334	I274	E214	D154	L94	T34
	R335	H275	K215	S155	R95	V35
	K336	E276	L216	G156	V96	G36
	Y337	T277	C217	D157	A97	R37
	S338	T278	Y218	G158	P98	P38
	V339	Y279	V219	V159	E99	R39
	W340	N280	A220	T160	E100	H40
	I341	S281	L221	H161	H101	Q41
	G342	I282	D222	M162	P102	G42
	G343	M283	F223	V163	T103	G43
	S344	K284	E224	P164	L104	M44
	I345	C285	M225	I165	L105	V45
	L346	D286	E226	Y166	T106	G46
	A347	I287	M227	E167	E107	M47
	S348	D288	A228	G168	A108	D48
	L349	I289	T229	V169	P109	Q49
	S350	R290	A230	A170	L110	K50
	T351	K291	A231	L171	M111	D51
	F352	D292	S232	P172	P112	S52
	Q353	L293	S233	H173	K113	V53
	Q354	Y294	S234	A174	A114	V54
	M355	A295	S235	I175	G55	S55
	W356	N296	L236	M176	N116	D56
	I357	N297	E237	R177	E117	E57
	T358	V298	K238	L178	K118	A58
	K359	M299	S239	D179	M119	Q59
	Q360	S300	V240	L180	T120	S60

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	1.85	41/6448 (0.6%)	2.12	154/8729 (1.8%)
1	D	1.85	40/6448 (0.6%)	2.12	149/8729 (1.7%)
1	G	1.85	41/6449 (0.6%)	2.13	160/8732 (1.8%)
1	J	1.86	43/6449 (0.7%)	2.19	148/8732 (1.7%)
1	P	1.92	42/6449 (0.7%)	2.22	159/8732 (1.8%)
2	B	1.36	16/1148 (1.4%)	1.47	21/1548 (1.4%)
2	E	1.37	15/1148 (1.3%)	1.47	21/1548 (1.4%)
2	H	1.37	16/1148 (1.4%)	1.47	21/1548 (1.4%)
2	K	1.37	16/1148 (1.4%)	1.47	21/1548 (1.4%)
2	Q	1.37	15/1148 (1.3%)	1.47	21/1548 (1.4%)
3	C	0.88	4/1136 (0.4%)	1.18	6/1525 (0.4%)
3	F	0.88	4/1136 (0.4%)	1.18	6/1525 (0.4%)
3	I	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
3	L	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
3	R	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
4	0	1.17	13/2968 (0.4%)	2.00	101/4023 (2.5%)
4	1	1.17	12/2968 (0.4%)	2.00	98/4023 (2.4%)
4	2	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	3	1.17	13/2968 (0.4%)	2.00	97/4023 (2.4%)
4	4	1.17	13/2968 (0.4%)	2.00	97/4023 (2.4%)
4	5	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	7	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	8	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	9	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	V	1.17	12/2968 (0.4%)	2.00	98/4023 (2.4%)
4	W	1.17	13/2968 (0.4%)	2.00	97/4023 (2.4%)
4	X	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	Y	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	Z	1.17	13/2968 (0.4%)	2.00	97/4023 (2.4%)
All	All	1.47	485/85215 (0.6%)	1.99	2279/115341 (2.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	4
1	D	1	4
1	G	2	4
1	J	1	6
1	P	1	9
2	B	0	3
2	E	0	3
2	H	0	3
2	K	0	3
2	Q	0	3
3	C	0	2
3	F	0	2
3	I	0	2
3	L	0	2
3	R	0	2
4	0	0	1
4	1	0	1
4	2	0	1
4	3	0	1
4	4	0	1
4	5	0	1
4	7	0	1
4	8	0	1
4	9	0	1
4	V	0	1
4	W	0	1
4	X	0	1
4	Y	0	1
4	Z	0	1
All	All	6	66

All (485) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	648	THR	CB-OG1	42.63	2.12	1.43
1	P	648	THR	CB-OG1	42.62	2.12	1.43
1	J	648	THR	CB-OG1	42.61	2.12	1.43
1	G	648	THR	CB-OG1	42.60	2.12	1.43
1	A	648	THR	CB-OG1	42.59	2.11	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	623	PHE	CB-CG	35.87	2.33	1.50
1	J	623	PHE	CB-CG	35.87	2.33	1.50
1	A	623	PHE	CB-CG	35.86	2.33	1.50
1	P	623	PHE	CB-CG	35.86	2.33	1.50
1	G	623	PHE	CB-CG	35.82	2.33	1.50
1	P	649	VAL	CB-CG1	33.99	2.64	1.52
1	J	649	VAL	CB-CG1	33.98	2.64	1.52
1	A	649	VAL	CB-CG1	33.97	2.64	1.52
1	G	649	VAL	CB-CG1	33.95	2.64	1.52
1	D	649	VAL	CB-CG1	33.94	2.64	1.52
1	J	648	THR	CB-CG2	-30.77	0.51	1.52
1	P	648	THR	CB-CG2	-30.77	0.51	1.52
1	A	648	THR	CB-CG2	-30.76	0.51	1.52
1	D	648	THR	CB-CG2	-30.73	0.51	1.52
1	G	648	THR	CB-CG2	-30.71	0.51	1.52
1	P	769	ALA	C-N	-30.67	0.88	1.33
1	A	649	VAL	CB-CG2	29.55	2.50	1.52
1	G	649	VAL	CB-CG2	29.48	2.49	1.52
1	P	649	VAL	CB-CG2	29.48	2.49	1.52
1	J	649	VAL	CB-CG2	29.46	2.49	1.52
1	D	649	VAL	CB-CG2	29.43	2.49	1.52
1	P	806	MET	C-N	-29.33	0.93	1.33
1	A	649	VAL	C-N	-22.05	1.02	1.33
1	G	649	VAL	C-N	-21.96	1.02	1.33
1	D	649	VAL	C-N	-21.89	1.03	1.33
1	P	649	VAL	C-N	-21.81	1.03	1.33
1	J	649	VAL	C-N	-21.74	1.03	1.33
2	B	140	PHE	C-N	-20.16	1.09	1.33
2	E	140	PHE	C-N	-20.14	1.09	1.33
2	Q	140	PHE	C-N	-20.02	1.09	1.33
2	K	140	PHE	C-N	-20.01	1.09	1.33
2	H	140	PHE	C-N	-19.94	1.09	1.33
1	D	637	LYS	C-N	-18.95	1.05	1.33
1	P	637	LYS	C-N	-18.88	1.05	1.33
1	J	637	LYS	C-N	-18.79	1.06	1.33
1	G	637	LYS	C-N	-18.63	1.06	1.33
1	A	637	LYS	C-N	-18.50	1.06	1.33
1	J	785	GLU	C-N	15.17	1.54	1.33
1	A	622	LEU	C-N	13.13	1.54	1.33
1	J	622	LEU	C-N	13.10	1.54	1.33
1	P	622	LEU	C-N	13.04	1.53	1.33
1	D	622	LEU	C-N	13.01	1.53	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	622	LEU	C-N	12.99	1.53	1.33
2	K	150	TYR	CA-CB	-11.48	1.35	1.53
1	G	785	GLU	C-N	11.47	1.49	1.33
2	H	150	TYR	CA-CB	-11.40	1.35	1.53
2	Q	150	TYR	CA-CB	-11.33	1.36	1.53
2	E	150	TYR	CA-CB	-11.26	1.36	1.53
2	K	150	TYR	N-CA	-10.92	1.33	1.46
1	A	201	ALA	CA-C	-10.84	1.47	1.53
2	Q	150	TYR	N-CA	-10.71	1.33	1.46
1	D	201	ALA	CA-C	-10.71	1.47	1.53
2	H	150	TYR	N-CA	-10.71	1.33	1.46
2	E	150	TYR	N-CA	-10.69	1.33	1.46
2	K	141	PRO	N-CD	-10.55	1.32	1.47
1	P	201	ALA	CA-C	-10.54	1.47	1.53
1	G	201	ALA	CA-C	-10.54	1.47	1.53
2	B	150	TYR	CA-CB	-10.46	1.35	1.53
2	E	141	PRO	N-CD	-10.46	1.33	1.47
1	J	201	ALA	CA-C	-10.46	1.47	1.53
2	B	141	PRO	N-CD	-10.41	1.33	1.47
2	Q	141	PRO	N-CD	-10.38	1.33	1.47
2	H	141	PRO	N-CD	-10.29	1.33	1.47
2	B	150	TYR	N-CA	-9.66	1.33	1.46
2	Q	150	TYR	CB-CG	-9.14	1.31	1.51
2	H	150	TYR	CB-CG	-9.13	1.31	1.51
2	E	150	TYR	CB-CG	-9.09	1.31	1.51
2	K	150	TYR	CB-CG	-9.08	1.31	1.51
2	B	150	TYR	CB-CG	-9.01	1.31	1.51
1	D	218	LEU	C-N	-8.62	1.21	1.33
1	A	218	LEU	C-N	-8.54	1.21	1.33
1	P	218	LEU	C-N	-8.54	1.21	1.33
1	J	218	LEU	C-N	-8.53	1.21	1.33
2	Q	131	GLU	N-CA	8.49	1.57	1.46
2	K	131	GLU	N-CA	8.43	1.57	1.46
2	H	131	GLU	N-CA	8.41	1.57	1.46
2	B	131	GLU	N-CA	8.39	1.57	1.46
1	G	218	LEU	C-N	-8.39	1.22	1.33
2	E	131	GLU	N-CA	8.36	1.56	1.46
2	Q	149	ASP	C-N	-8.13	1.23	1.33
2	H	149	ASP	C-N	-8.13	1.23	1.33
2	E	149	ASP	C-N	-8.09	1.23	1.33
2	K	149	ASP	C-N	-8.03	1.23	1.33
1	G	218	LEU	CB-CG	7.92	1.69	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	218	LEU	CB-CG	7.77	1.69	1.53
1	P	218	LEU	CB-CG	7.76	1.69	1.53
1	A	218	LEU	CB-CG	7.74	1.69	1.53
1	D	218	LEU	CB-CG	7.72	1.68	1.53
4	1	101	HIS	CD2-NE2	-7.51	1.29	1.37
4	V	101	HIS	CD2-NE2	-7.51	1.29	1.37
2	B	140	PHE	CA-C	-7.49	1.43	1.52
4	Y	101	HIS	CD2-NE2	-7.46	1.29	1.37
4	3	101	HIS	CD2-NE2	-7.44	1.29	1.37
4	5	101	HIS	CD2-NE2	-7.43	1.29	1.37
4	9	101	HIS	CD2-NE2	-7.42	1.29	1.37
4	7	101	HIS	CD2-NE2	-7.42	1.29	1.37
4	0	101	HIS	CD2-NE2	-7.40	1.29	1.37
4	3	88	HIS	CD2-NE2	-7.40	1.29	1.37
4	Z	101	HIS	CD2-NE2	-7.38	1.29	1.37
4	X	87	HIS	CD2-NE2	-7.36	1.29	1.37
4	8	101	HIS	CD2-NE2	-7.35	1.29	1.37
4	X	101	HIS	CD2-NE2	-7.35	1.29	1.37
4	W	101	HIS	CD2-NE2	-7.34	1.29	1.37
2	H	140	PHE	CA-C	-7.34	1.43	1.52
4	1	88	HIS	CD2-NE2	-7.34	1.29	1.37
4	W	88	HIS	CD2-NE2	-7.33	1.29	1.37
4	V	88	HIS	CD2-NE2	-7.32	1.29	1.37
4	4	101	HIS	CD2-NE2	-7.32	1.29	1.37
4	8	88	HIS	CD2-NE2	-7.31	1.29	1.37
4	2	88	HIS	CD2-NE2	-7.31	1.29	1.37
4	Z	88	HIS	CD2-NE2	-7.30	1.29	1.37
4	0	88	HIS	CD2-NE2	-7.30	1.29	1.37
4	7	88	HIS	CD2-NE2	-7.30	1.29	1.37
3	F	63	ILE	CA-CB	7.29	1.66	1.55
4	3	87	HIS	CD2-NE2	-7.29	1.29	1.37
4	9	88	HIS	CD2-NE2	-7.29	1.29	1.37
3	R	63	ILE	CA-CB	7.29	1.66	1.55
4	2	101	HIS	CD2-NE2	-7.28	1.29	1.37
4	5	88	HIS	CD2-NE2	-7.28	1.29	1.37
4	Z	87	HIS	CD2-NE2	-7.28	1.29	1.37
2	Q	140	PHE	CA-C	-7.27	1.43	1.52
4	0	87	HIS	CD2-NE2	-7.27	1.29	1.37
4	4	88	HIS	CD2-NE2	-7.27	1.29	1.37
4	X	88	HIS	CD2-NE2	-7.26	1.29	1.37
4	Y	275	HIS	CD2-NE2	-7.26	1.29	1.37
4	3	275	HIS	CD2-NE2	-7.26	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5	87	HIS	CD2-NE2	-7.26	1.29	1.37
4	1	87	HIS	CD2-NE2	-7.26	1.29	1.37
4	Y	87	HIS	CD2-NE2	-7.26	1.29	1.37
3	L	63	ILE	CA-CB	7.25	1.66	1.55
3	C	63	ILE	CA-CB	7.25	1.66	1.55
4	2	275	HIS	CD2-NE2	-7.24	1.29	1.37
3	I	63	ILE	CA-CB	7.23	1.66	1.55
1	J	496	PHE	C-N	-7.23	1.24	1.33
4	Z	275	HIS	CD2-NE2	-7.23	1.29	1.37
1	P	496	PHE	C-N	-7.22	1.24	1.33
4	2	87	HIS	CD2-NE2	-7.21	1.29	1.37
2	K	140	PHE	CA-C	-7.21	1.43	1.52
2	E	140	PHE	CA-C	-7.21	1.43	1.52
4	V	87	HIS	CD2-NE2	-7.21	1.29	1.37
4	V	275	HIS	CD2-NE2	-7.21	1.29	1.37
4	Y	88	HIS	CD2-NE2	-7.21	1.29	1.37
4	8	87	HIS	CD2-NE2	-7.20	1.29	1.37
2	B	149	ASP	C-N	-7.20	1.23	1.33
4	5	275	HIS	CD2-NE2	-7.20	1.29	1.37
4	8	275	HIS	CD2-NE2	-7.20	1.29	1.37
1	D	496	PHE	C-N	-7.19	1.24	1.33
4	7	87	HIS	CD2-NE2	-7.18	1.29	1.37
4	W	87	HIS	CD2-NE2	-7.18	1.29	1.37
2	B	150	TYR	CG-CD2	-7.17	1.24	1.39
4	7	275	HIS	CD2-NE2	-7.17	1.29	1.37
4	4	87	HIS	CD2-NE2	-7.17	1.29	1.37
4	1	275	HIS	CD2-NE2	-7.17	1.29	1.37
4	8	40	HIS	CD2-NE2	-7.16	1.29	1.37
4	0	275	HIS	CD2-NE2	-7.16	1.29	1.37
4	9	87	HIS	CD2-NE2	-7.16	1.29	1.37
4	X	275	HIS	CD2-NE2	-7.15	1.29	1.37
1	A	496	PHE	C-N	-7.15	1.25	1.33
2	Q	150	TYR	CG-CD2	-7.14	1.24	1.39
4	9	275	HIS	CD2-NE2	-7.12	1.30	1.37
4	4	275	HIS	CD2-NE2	-7.11	1.30	1.37
4	W	275	HIS	CD2-NE2	-7.11	1.30	1.37
4	V	40	HIS	CD2-NE2	-7.07	1.30	1.37
1	G	496	PHE	C-N	-7.06	1.25	1.33
4	2	40	HIS	CD2-NE2	-7.06	1.30	1.37
4	5	40	HIS	CD2-NE2	-7.06	1.30	1.37
2	H	150	TYR	CG-CD2	-7.05	1.24	1.39
2	K	150	TYR	CG-CD2	-7.05	1.24	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	40	HIS	CD2-NE2	-7.04	1.30	1.37
4	3	40	HIS	CD2-NE2	-7.03	1.30	1.37
2	E	141	PRO	CA-CB	-7.02	1.44	1.54
4	9	40	HIS	CD2-NE2	-7.01	1.30	1.37
2	E	150	TYR	CG-CD2	-7.00	1.24	1.39
4	4	40	HIS	CD2-NE2	-7.00	1.30	1.37
2	K	141	PRO	CA-CB	-7.00	1.44	1.54
4	0	40	HIS	CD2-NE2	-7.00	1.30	1.37
2	H	141	PRO	CA-CB	-6.99	1.44	1.54
4	W	40	HIS	CD2-NE2	-6.99	1.30	1.37
2	H	138	ALA	C-N	-6.98	1.23	1.33
4	Z	40	HIS	CD2-NE2	-6.98	1.30	1.37
4	Y	40	HIS	CD2-NE2	-6.96	1.30	1.37
4	1	40	HIS	CD2-NE2	-6.95	1.30	1.37
1	G	288	PHE	CA-C	-6.94	1.44	1.52
2	Q	138	ALA	C-N	-6.93	1.23	1.33
2	B	141	PRO	CA-CB	-6.92	1.44	1.54
1	D	288	PHE	CA-C	-6.90	1.44	1.52
4	7	40	HIS	CD2-NE2	-6.89	1.30	1.37
2	B	138	ALA	C-N	-6.88	1.23	1.33
2	K	138	ALA	C-N	-6.88	1.23	1.33
1	D	177	ILE	C-O	-6.88	1.16	1.24
2	K	140	PHE	C-O	-6.88	1.15	1.24
1	P	288	PHE	CA-C	-6.85	1.44	1.52
2	Q	141	PRO	CA-CB	-6.85	1.44	1.54
2	E	138	ALA	C-N	-6.83	1.23	1.33
2	B	140	PHE	C-O	-6.80	1.15	1.24
1	A	288	PHE	CA-C	-6.79	1.44	1.52
1	G	177	ILE	C-O	-6.78	1.16	1.24
1	A	177	ILE	C-O	-6.76	1.16	1.24
1	D	641	LYS	C-N	-6.76	1.25	1.34
2	Q	140	PHE	C-O	-6.75	1.15	1.24
2	H	140	PHE	C-O	-6.75	1.15	1.24
1	A	637	LYS	C-O	6.73	1.32	1.24
4	8	371	HIS	CD2-NE2	-6.70	1.30	1.37
2	E	140	PHE	C-O	-6.70	1.15	1.24
1	P	177	ILE	C-O	-6.68	1.16	1.24
1	J	177	ILE	C-O	-6.67	1.16	1.24
1	J	288	PHE	CA-C	-6.67	1.44	1.52
4	X	371	HIS	CD2-NE2	-6.66	1.30	1.37
1	J	568	PRO	CA-C	-6.65	1.44	1.52
1	P	568	PRO	CA-C	-6.65	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	9	371	HIS	CD2-NE2	-6.62	1.30	1.37
1	G	201	ALA	C-N	-6.62	1.24	1.33
1	G	637	LYS	C-O	6.62	1.32	1.24
1	J	637	LYS	C-O	6.60	1.32	1.24
1	G	496	PHE	C-O	-6.59	1.16	1.24
4	3	371	HIS	CD2-NE2	-6.59	1.30	1.37
1	A	496	PHE	C-O	-6.58	1.16	1.24
1	A	523	ILE	CA-CB	-6.57	1.46	1.54
4	4	371	HIS	CD2-NE2	-6.57	1.30	1.37
4	1	371	HIS	CD2-NE2	-6.56	1.30	1.37
4	W	371	HIS	CD2-NE2	-6.55	1.30	1.37
1	G	568	PRO	CA-C	-6.55	1.44	1.52
1	G	641	LYS	C-N	-6.54	1.25	1.34
4	7	371	HIS	CD2-NE2	-6.54	1.30	1.37
4	V	371	HIS	CD2-NE2	-6.53	1.30	1.37
1	J	641	LYS	C-N	-6.52	1.25	1.34
1	P	637	LYS	C-O	6.52	1.32	1.24
4	Z	371	HIS	CD2-NE2	-6.51	1.30	1.37
4	2	371	HIS	CD2-NE2	-6.51	1.30	1.37
4	5	371	HIS	CD2-NE2	-6.50	1.30	1.37
4	0	371	HIS	CD2-NE2	-6.49	1.30	1.37
1	P	641	LYS	C-N	-6.49	1.25	1.34
1	A	641	LYS	C-N	-6.48	1.25	1.34
4	Y	371	HIS	CD2-NE2	-6.47	1.30	1.37
1	D	568	PRO	CA-C	-6.47	1.44	1.52
1	D	523	ILE	CA-CB	-6.46	1.46	1.54
4	1	101	HIS	CG-ND1	-6.45	1.31	1.38
1	A	568	PRO	CA-C	-6.45	1.44	1.52
1	P	201	ALA	C-N	-6.45	1.24	1.33
1	G	523	ILE	CA-CB	-6.45	1.46	1.54
4	V	101	HIS	CG-ND1	-6.44	1.31	1.38
2	B	123	THR	C-N	-6.44	1.24	1.33
1	D	201	ALA	C-N	-6.44	1.24	1.33
4	0	101	HIS	CG-ND1	-6.43	1.31	1.38
4	8	88	HIS	CG-ND1	-6.42	1.31	1.38
1	D	496	PHE	C-O	-6.42	1.16	1.24
4	2	101	HIS	CG-ND1	-6.42	1.31	1.38
4	1	88	HIS	CG-ND1	-6.42	1.31	1.38
4	9	101	HIS	CG-ND1	-6.41	1.31	1.38
4	V	88	HIS	CG-ND1	-6.41	1.31	1.38
4	Z	88	HIS	CG-ND1	-6.41	1.31	1.38
3	I	62	ALA	C-N	-6.41	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	496	PHE	C-O	-6.41	1.16	1.24
4	W	101	HIS	CG-ND1	-6.40	1.31	1.38
4	X	88	HIS	CG-ND1	-6.40	1.31	1.38
4	4	101	HIS	CG-ND1	-6.39	1.31	1.38
4	0	88	HIS	CG-ND1	-6.39	1.31	1.38
4	9	88	HIS	CG-ND1	-6.38	1.31	1.38
4	7	88	HIS	CG-ND1	-6.38	1.31	1.38
4	5	88	HIS	CG-ND1	-6.37	1.31	1.38
1	D	637	LYS	C-O	6.37	1.32	1.24
4	Y	88	HIS	CG-ND1	-6.37	1.31	1.38
1	J	201	ALA	C-N	-6.36	1.24	1.33
4	Y	101	HIS	CG-ND1	-6.36	1.31	1.38
3	C	62	ALA	C-N	-6.36	1.26	1.33
4	4	88	HIS	CG-ND1	-6.36	1.31	1.38
2	K	123	THR	C-N	-6.36	1.24	1.33
4	2	88	HIS	CG-ND1	-6.36	1.31	1.38
4	W	88	HIS	CG-ND1	-6.36	1.31	1.38
3	R	62	ALA	C-N	-6.34	1.26	1.33
1	P	523	ILE	CA-CB	-6.34	1.47	1.54
2	Q	123	THR	C-N	-6.34	1.24	1.33
4	3	101	HIS	CG-ND1	-6.34	1.31	1.38
4	X	101	HIS	CG-ND1	-6.33	1.31	1.38
4	5	101	HIS	CG-ND1	-6.33	1.31	1.38
3	L	62	ALA	C-N	-6.31	1.26	1.33
4	8	101	HIS	CG-ND1	-6.30	1.31	1.38
1	A	201	ALA	C-N	-6.30	1.24	1.33
4	Z	101	HIS	CG-ND1	-6.29	1.31	1.38
2	E	123	THR	C-N	-6.29	1.24	1.33
4	3	88	HIS	CG-ND1	-6.27	1.31	1.38
4	7	101	HIS	CG-ND1	-6.27	1.31	1.38
3	R	64	THR	N-CA	-6.27	1.38	1.46
1	J	496	PHE	C-O	-6.26	1.16	1.24
1	J	523	ILE	CA-CB	-6.22	1.47	1.54
2	H	123	THR	C-N	-6.14	1.24	1.33
3	L	64	THR	N-CA	-6.12	1.38	1.45
3	F	62	ALA	C-N	-6.10	1.26	1.33
3	F	63	ILE	CB-CG1	6.06	1.65	1.53
3	C	63	ILE	CB-CG1	6.05	1.65	1.53
3	I	64	THR	N-CA	-6.04	1.38	1.46
3	F	64	THR	N-CA	-6.04	1.38	1.46
4	1	173	HIS	CD2-NE2	-6.03	1.31	1.37
3	L	63	ILE	CB-CG1	6.02	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1	161	HIS	CD2-NE2	-6.01	1.31	1.37
3	R	63	ILE	CB-CG1	5.99	1.65	1.53
3	C	64	THR	N-CA	-5.99	1.38	1.46
4	5	173	HIS	CD2-NE2	-5.98	1.31	1.37
1	P	358	VAL	C-O	-5.97	1.17	1.24
4	W	161	HIS	CD2-NE2	-5.97	1.31	1.37
1	J	358	VAL	C-O	-5.96	1.17	1.24
4	8	161	HIS	CD2-NE2	-5.96	1.31	1.37
4	3	161	HIS	CD2-NE2	-5.95	1.31	1.37
3	I	63	ILE	CB-CG1	5.95	1.65	1.53
4	4	161	HIS	CD2-NE2	-5.93	1.31	1.37
4	2	161	HIS	CD2-NE2	-5.92	1.31	1.37
4	2	173	HIS	CD2-NE2	-5.92	1.31	1.37
4	9	161	HIS	CD2-NE2	-5.92	1.31	1.37
4	V	173	HIS	CD2-NE2	-5.91	1.31	1.37
4	0	173	HIS	CD2-NE2	-5.91	1.31	1.37
1	P	514	ASP	C-O	-5.90	1.17	1.23
4	7	173	HIS	CD2-NE2	-5.90	1.31	1.37
4	0	161	HIS	CD2-NE2	-5.90	1.31	1.37
4	Y	173	HIS	CD2-NE2	-5.89	1.31	1.37
4	3	173	HIS	CD2-NE2	-5.88	1.31	1.37
1	G	358	VAL	C-O	-5.88	1.17	1.24
4	X	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	9	173	HIS	CD2-NE2	-5.88	1.31	1.37
4	5	161	HIS	CD2-NE2	-5.87	1.31	1.37
4	Z	161	HIS	CD2-NE2	-5.87	1.31	1.37
4	V	161	HIS	CD2-NE2	-5.86	1.31	1.37
4	X	173	HIS	CD2-NE2	-5.86	1.31	1.37
4	W	173	HIS	CD2-NE2	-5.85	1.31	1.37
4	Y	161	HIS	CD2-NE2	-5.84	1.31	1.37
4	7	161	HIS	CD2-NE2	-5.84	1.31	1.37
4	8	173	HIS	CD2-NE2	-5.84	1.31	1.37
1	G	514	ASP	C-O	-5.83	1.17	1.23
1	J	514	ASP	C-O	-5.83	1.17	1.23
1	A	514	ASP	C-O	-5.83	1.17	1.23
4	4	173	HIS	CD2-NE2	-5.82	1.31	1.37
4	Z	173	HIS	CD2-NE2	-5.78	1.31	1.37
1	P	434	TYR	CA-CB	-5.78	1.44	1.53
1	D	514	ASP	C-O	-5.78	1.17	1.23
1	A	434	TYR	CA-CB	-5.76	1.44	1.53
1	J	434	TYR	CA-CB	-5.75	1.44	1.53
1	A	358	VAL	C-O	-5.75	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	217	THR	N-CA	5.73	1.53	1.45
1	D	358	VAL	C-O	-5.71	1.17	1.24
1	J	578	HIS	N-CA	5.69	1.53	1.46
1	G	434	TYR	CA-CB	-5.69	1.44	1.53
1	A	625	THR	CB-CG2	5.64	1.71	1.52
1	G	625	THR	CB-CG2	5.63	1.71	1.52
1	D	434	TYR	CA-CB	-5.62	1.44	1.53
1	P	625	THR	CB-CG2	5.62	1.71	1.52
1	J	625	THR	CB-CG2	5.61	1.71	1.52
1	D	625	THR	CB-CG2	5.61	1.71	1.52
1	J	217	THR	N-CA	5.60	1.52	1.45
1	P	578	HIS	N-CA	5.60	1.53	1.46
1	G	217	THR	N-CA	5.58	1.52	1.45
4	8	275	HIS	CG-ND1	-5.56	1.32	1.38
1	G	233	GLY	C-O	-5.55	1.20	1.24
1	P	217	THR	N-CA	5.54	1.52	1.45
4	7	275	HIS	CG-ND1	-5.54	1.32	1.38
4	9	275	HIS	CG-ND1	-5.53	1.32	1.38
4	Y	275	HIS	CG-ND1	-5.53	1.32	1.38
4	W	275	HIS	CG-ND1	-5.53	1.32	1.38
1	D	217	THR	N-CA	5.52	1.52	1.45
4	V	275	HIS	CG-ND1	-5.52	1.32	1.38
4	2	275	HIS	CG-ND1	-5.52	1.32	1.38
4	5	275	HIS	CG-ND1	-5.52	1.32	1.38
4	3	275	HIS	CG-ND1	-5.51	1.32	1.38
4	Z	275	HIS	CG-ND1	-5.51	1.32	1.38
4	1	275	HIS	CG-ND1	-5.51	1.32	1.38
4	X	275	HIS	CG-ND1	-5.50	1.32	1.38
1	D	578	HIS	N-CA	5.50	1.53	1.46
4	4	275	HIS	CG-ND1	-5.49	1.32	1.38
1	A	578	HIS	N-CA	5.49	1.53	1.46
1	D	641	LYS	C-O	5.48	1.31	1.24
4	0	275	HIS	CG-ND1	-5.47	1.32	1.38
1	A	233	GLY	C-O	-5.47	1.20	1.24
1	J	641	LYS	C-O	5.46	1.31	1.24
1	P	641	LYS	C-O	5.43	1.31	1.24
1	D	233	GLY	C-O	-5.43	1.20	1.24
1	P	233	GLY	C-O	-5.42	1.20	1.24
1	P	340	ILE	CA-C	-5.42	1.45	1.52
1	G	578	HIS	N-CA	5.40	1.53	1.46
1	J	340	ILE	CA-C	-5.38	1.45	1.52
1	G	671	PHE	C-O	-5.38	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	641	LYS	C-O	5.36	1.30	1.24
2	E	129	THR	N-CA	5.36	1.53	1.46
1	A	641	LYS	C-O	5.35	1.30	1.24
1	A	671	PHE	C-O	-5.33	1.17	1.23
1	P	476	GLU	CD-OE1	5.30	1.35	1.25
1	G	340	ILE	CA-C	-5.30	1.45	1.52
1	P	104	TYR	C-O	-5.30	1.17	1.24
1	D	252	ILE	CA-C	-5.29	1.46	1.52
1	J	476	GLU	CD-OE1	5.29	1.35	1.25
1	D	104	TYR	C-O	-5.29	1.17	1.24
2	B	129	THR	N-CA	5.28	1.53	1.46
1	D	340	ILE	CA-C	-5.28	1.45	1.52
2	Q	129	THR	N-CA	5.28	1.53	1.46
1	A	482	PHE	C-O	-5.27	1.18	1.24
2	K	129	THR	N-CA	5.27	1.53	1.46
1	D	476	GLU	CD-OE1	5.26	1.35	1.25
1	D	619	LEU	CA-C	-5.25	1.46	1.52
1	J	233	GLY	C-O	-5.25	1.20	1.24
1	A	340	ILE	CA-C	-5.24	1.45	1.52
1	J	252	ILE	CA-C	-5.24	1.46	1.52
4	7	259	GLU	CA-CB	5.24	1.62	1.53
1	P	157	SER	CA-C	-5.23	1.46	1.52
1	G	476	GLU	CD-OE1	5.23	1.35	1.25
1	P	252	ILE	CA-C	-5.21	1.46	1.52
1	D	482	PHE	C-O	-5.21	1.18	1.24
1	J	482	PHE	C-O	-5.21	1.18	1.24
1	G	482	PHE	C-O	-5.20	1.18	1.24
4	3	259	GLU	CA-CB	5.19	1.62	1.53
1	G	104	TYR	C-O	-5.18	1.17	1.24
1	J	671	PHE	C-O	-5.18	1.17	1.23
1	D	309	PRO	CA-CB	-5.18	1.46	1.53
2	H	129	THR	N-CA	5.18	1.53	1.46
1	G	252	ILE	CA-C	-5.18	1.46	1.52
1	G	177	ILE	CA-CB	-5.17	1.48	1.54
4	Y	259	GLU	CA-CB	5.17	1.62	1.53
1	A	476	GLU	CD-OE1	5.16	1.35	1.25
4	4	259	GLU	CA-CB	5.16	1.62	1.53
4	0	259	GLU	CA-CB	5.16	1.62	1.53
1	G	309	PRO	CA-CB	-5.16	1.46	1.53
1	J	277	PHE	CA-C	-5.16	1.46	1.52
4	X	259	GLU	CA-CB	5.16	1.62	1.53
1	P	309	PRO	CA-CB	-5.15	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	482	PHE	C-O	-5.15	1.18	1.24
4	W	259	GLU	CA-CB	5.15	1.62	1.53
1	J	104	TYR	C-O	-5.15	1.17	1.24
4	V	259	GLU	CA-CB	5.15	1.62	1.53
1	D	671	PHE	C-O	-5.14	1.17	1.23
4	Z	259	GLU	CA-CB	5.14	1.62	1.53
1	A	309	PRO	CA-CB	-5.14	1.46	1.53
1	D	766	PHE	N-CA	-5.14	1.39	1.46
1	P	671	PHE	C-O	-5.14	1.17	1.23
4	5	259	GLU	CA-CB	5.14	1.62	1.53
2	B	137	TRP	NE1-CE2	-5.14	1.31	1.37
4	3	214	GLU	CA-CB	5.14	1.61	1.53
1	P	202	SER	CB-OG	5.14	1.52	1.42
4	9	259	GLU	CA-CB	5.14	1.62	1.53
4	8	259	GLU	CA-CB	5.13	1.62	1.53
1	D	202	SER	CB-OG	5.13	1.52	1.42
1	J	157	SER	CA-C	-5.13	1.46	1.52
4	X	214	GLU	CA-CB	5.12	1.61	1.53
1	A	252	ILE	CA-C	-5.12	1.47	1.52
1	A	177	ILE	CA-CB	-5.11	1.48	1.54
4	1	259	GLU	CA-CB	5.11	1.62	1.53
4	7	214	GLU	CA-CB	5.11	1.61	1.53
1	J	309	PRO	CA-CB	-5.10	1.46	1.53
1	A	157	SER	CA-C	-5.10	1.46	1.52
4	4	214	GLU	CA-CB	5.09	1.61	1.53
4	2	259	GLU	CA-CB	5.09	1.62	1.53
4	Y	214	GLU	CA-CB	5.09	1.61	1.53
4	0	214	GLU	CA-CB	5.08	1.61	1.53
1	J	202	SER	CB-OG	5.08	1.52	1.42
1	P	644	SER	C-O	5.08	1.30	1.24
4	W	214	GLU	CA-CB	5.08	1.61	1.53
1	A	104	TYR	C-O	-5.07	1.17	1.24
2	Q	149	ASP	CA-C	-5.07	1.46	1.53
4	5	214	GLU	CA-CB	5.07	1.61	1.53
1	G	766	PHE	N-CA	-5.06	1.39	1.46
2	K	149	ASP	CA-C	-5.06	1.46	1.53
1	G	202	SER	CB-OG	5.06	1.52	1.42
1	A	619	LEU	CA-C	-5.06	1.46	1.52
1	A	766	PHE	N-CA	-5.06	1.39	1.46
2	E	149	ASP	CA-C	-5.06	1.46	1.53
4	2	214	GLU	CA-CB	5.06	1.61	1.53
1	P	619	LEU	CA-C	-5.05	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	202	SER	CB-OG	5.05	1.52	1.42
4	8	214	GLU	CA-CB	5.05	1.61	1.53
1	D	177	ILE	CA-CB	-5.05	1.48	1.54
4	9	214	GLU	CA-CB	5.04	1.61	1.53
1	P	177	ILE	CA-CB	-5.04	1.48	1.54
1	A	334	THR	CA-C	-5.04	1.46	1.52
2	H	149	ASP	CA-C	-5.03	1.46	1.53
2	K	137	TRP	NE1-CE2	-5.03	1.31	1.37
1	D	361	TYR	C-N	-5.02	1.27	1.33
1	G	619	LEU	CA-C	-5.02	1.46	1.52
2	H	130	PRO	C-N	5.02	1.40	1.33
1	J	766	PHE	N-CA	-5.02	1.39	1.46
1	J	619	LEU	CA-C	-5.02	1.46	1.52
2	B	149	ASP	CA-C	-5.02	1.46	1.53
4	Z	214	GLU	CA-CB	5.01	1.61	1.53
1	G	644	SER	C-O	5.01	1.30	1.24
1	J	41	VAL	CA-CB	-5.01	1.49	1.54
1	J	644	SER	C-O	5.01	1.30	1.24

All (2279) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	637	LYS	O-C-N	-74.34	23.71	122.59
1	J	637	LYS	O-C-N	-74.28	23.80	122.59
1	D	637	LYS	O-C-N	-74.27	23.81	122.59
1	P	637	LYS	O-C-N	-74.26	23.82	122.59
1	A	637	LYS	O-C-N	-74.24	23.85	122.59
1	J	709	LYS	O-C-N	-48.70	59.04	122.83
1	J	648	THR	CA-CB-OG1	-44.81	42.39	109.60
1	P	648	THR	CA-CB-OG1	-44.79	42.41	109.60
1	D	648	THR	CA-CB-OG1	-44.77	42.44	109.60
1	A	648	THR	CA-CB-OG1	-44.76	42.45	109.60
1	G	648	THR	CA-CB-OG1	-44.74	42.49	109.60
1	P	806	MET	O-C-N	-41.48	67.42	122.59
1	P	623	PHE	CA-CB-CG	-29.33	84.47	113.80
1	J	623	PHE	CA-CB-CG	-29.31	84.49	113.80
1	A	623	PHE	CA-CB-CG	-29.31	84.49	113.80
1	D	623	PHE	CA-CB-CG	-29.23	84.57	113.80
1	G	623	PHE	CA-CB-CG	-29.17	84.63	113.80
1	P	785	GLU	O-C-N	-25.68	92.93	122.20
1	P	649	VAL	CA-CB-CG1	-24.88	68.10	110.40
1	G	649	VAL	CA-CB-CG1	-24.86	68.13	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	649	VAL	CA-CB-CG1	-24.85	68.15	110.40
1	A	649	VAL	CA-CB-CG1	-24.84	68.17	110.40
1	J	649	VAL	CA-CB-CG1	-24.83	68.19	110.40
1	D	649	VAL	CG1-CB-CG2	-24.69	56.47	110.80
1	J	649	VAL	CG1-CB-CG2	-24.69	56.48	110.80
1	P	649	VAL	CG1-CB-CG2	-24.69	56.48	110.80
1	A	649	VAL	CG1-CB-CG2	-24.69	56.48	110.80
1	G	649	VAL	CG1-CB-CG2	-24.67	56.52	110.80
1	A	649	VAL	CA-CB-CG2	-24.57	68.63	110.40
1	D	649	VAL	CA-CB-CG2	-24.57	68.63	110.40
1	P	649	VAL	CA-CB-CG2	-24.57	68.63	110.40
1	G	649	VAL	CA-CB-CG2	-24.56	68.64	110.40
1	J	649	VAL	CA-CB-CG2	-24.55	68.67	110.40
1	D	648	THR	CA-CB-CG2	-19.98	76.54	110.50
1	J	648	THR	CA-CB-CG2	-19.94	76.61	110.50
1	P	648	THR	CA-CB-CG2	-19.92	76.64	110.50
1	A	648	THR	CA-CB-CG2	-19.85	76.75	110.50
1	G	648	THR	CA-CB-CG2	-19.78	76.87	110.50
1	D	728	ASN	O-C-N	16.29	138.30	122.18
1	P	728	ASN	O-C-N	16.17	138.19	122.18
1	A	728	ASN	O-C-N	16.07	138.09	122.18
1	J	728	ASN	O-C-N	16.05	138.07	122.18
1	G	728	ASN	O-C-N	16.00	138.02	122.18
1	P	769	ALA	CA-C-N	14.96	150.74	121.41
1	P	769	ALA	C-N-CA	14.96	150.74	121.41
3	C	63	ILE	O-C-N	14.28	138.39	122.82
3	I	63	ILE	O-C-N	14.24	138.34	122.82
2	Q	150	TYR	CD1-CG-CD2	14.17	139.35	118.10
2	E	150	TYR	CD1-CG-CD2	14.16	139.35	118.10
2	K	150	TYR	CD1-CG-CD2	14.16	139.34	118.10
2	H	150	TYR	CD1-CG-CD2	14.15	139.33	118.10
2	B	150	TYR	CD1-CG-CD2	14.11	139.26	118.10
3	F	63	ILE	O-C-N	14.08	138.17	122.82
3	L	63	ILE	O-C-N	14.08	138.17	122.82
3	R	63	ILE	O-C-N	14.08	138.16	122.82
1	P	805	ALA	O-C-N	-13.89	107.38	122.38
1	D	568	PRO	O-C-N	13.55	139.81	123.01
1	G	568	PRO	O-C-N	13.54	139.79	123.01
1	A	568	PRO	O-C-N	13.52	139.78	123.01
1	J	568	PRO	O-C-N	13.45	139.69	123.01
1	P	568	PRO	O-C-N	13.42	139.65	123.01
1	G	709	LYS	O-C-N	13.18	141.45	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	98	HIS	CB-CA-C	-11.86	87.26	111.22
1	P	98	HIS	CB-CA-C	-11.85	87.28	111.22
1	G	98	HIS	CB-CA-C	-11.85	87.29	111.22
1	D	98	HIS	CB-CA-C	-11.83	87.32	111.22
1	A	98	HIS	CB-CA-C	-11.82	87.35	111.22
1	P	769	ALA	O-C-N	-11.79	104.14	123.00
1	P	709	LYS	CA-C-N	11.57	144.08	121.41
1	P	709	LYS	C-N-CA	11.57	144.08	121.41
2	E	150	TYR	CB-CG-CD2	-11.34	103.78	120.80
2	H	150	TYR	CB-CG-CD2	-11.33	103.81	120.80
2	K	150	TYR	CB-CG-CD2	-11.30	103.84	120.80
2	Q	150	TYR	CB-CG-CD2	-11.28	103.87	120.80
2	B	150	TYR	CB-CG-CD2	-11.27	103.89	120.80
1	A	201	ALA	CA-C-O	11.15	125.36	118.33
1	J	201	ALA	CA-C-O	11.13	125.34	118.33
2	H	150	TYR	CG-CD2-CE2	-11.08	104.58	121.20
1	P	201	ALA	CA-C-O	11.03	125.28	118.33
2	E	150	TYR	CG-CD2-CE2	-10.96	104.76	121.20
2	K	150	TYR	CG-CD2-CE2	-10.92	104.82	121.20
1	G	201	ALA	CA-C-O	10.91	125.20	118.33
2	B	150	TYR	CG-CD2-CE2	-10.86	104.92	121.20
1	D	201	ALA	CA-C-O	10.85	125.17	118.33
1	P	806	MET	CA-C-N	10.85	141.51	121.97
1	P	806	MET	C-N-CA	10.85	141.51	121.97
2	Q	150	TYR	CG-CD2-CE2	-10.85	104.93	121.20
1	G	320	ILE	CB-CA-C	-10.58	100.54	110.91
1	P	320	ILE	CB-CA-C	-10.58	100.54	110.91
1	J	320	ILE	CB-CA-C	-10.51	100.61	110.91
1	A	320	ILE	CB-CA-C	-10.47	100.65	110.91
1	D	320	ILE	CB-CA-C	-10.41	100.70	110.91
1	A	739	ASP	CA-CB-CG	-10.29	102.31	112.60
2	E	150	TYR	N-CA-CB	-10.28	93.71	110.77
2	Q	150	TYR	N-CA-CB	-10.27	93.72	110.77
2	H	150	TYR	N-CA-CB	-10.24	93.77	110.77
2	K	150	TYR	N-CA-CB	-10.23	93.79	110.77
1	G	653	PHE	CA-CB-CG	-10.22	103.58	113.80
1	G	739	ASP	CA-CB-CG	-10.19	102.42	112.60
1	A	653	PHE	CA-CB-CG	-10.18	103.62	113.80
1	P	739	ASP	CA-CB-CG	-10.17	102.43	112.60
1	J	739	ASP	CA-CB-CG	-10.16	102.44	112.60
1	J	653	PHE	CA-CB-CG	-10.14	103.66	113.80
1	P	653	PHE	CA-CB-CG	-10.11	103.69	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	653	PHE	CA-CB-CG	-10.09	103.71	113.80
2	Q	141	PRO	CA-N-CD	10.08	126.11	112.00
1	D	739	ASP	CA-CB-CG	-10.07	102.53	112.60
2	E	141	PRO	CA-N-CD	10.05	126.07	112.00
2	H	141	PRO	CA-N-CD	10.04	126.06	112.00
2	K	141	PRO	CA-N-CD	10.02	126.03	112.00
2	B	141	PRO	CA-N-CD	9.91	125.88	112.00
2	B	150	TYR	N-CA-CB	-9.86	93.83	110.49
1	G	693	HIS	CA-CB-CG	-9.84	103.96	113.80
2	H	150	TYR	CG-CD1-CE1	-9.82	106.46	121.20
2	E	150	TYR	CG-CD1-CE1	-9.81	106.49	121.20
1	P	693	HIS	CA-CB-CG	-9.80	104.00	113.80
2	K	150	TYR	CG-CD1-CE1	-9.76	106.57	121.20
1	D	693	HIS	CA-CB-CG	-9.75	104.05	113.80
1	J	693	HIS	CA-CB-CG	-9.74	104.06	113.80
2	B	150	TYR	CG-CD1-CE1	-9.73	106.61	121.20
2	Q	150	TYR	CG-CD1-CE1	-9.73	106.61	121.20
1	A	693	HIS	CA-CB-CG	-9.64	104.16	113.80
4	9	147	ARG	N-CA-C	9.42	123.35	110.35
4	7	147	ARG	N-CA-C	9.41	123.34	110.35
4	Z	147	ARG	N-CA-C	9.41	123.33	110.35
4	W	147	ARG	N-CA-C	9.39	123.31	110.35
2	K	138	ALA	O-C-N	-9.39	108.72	122.43
4	0	147	ARG	N-CA-C	9.38	123.30	110.35
2	Q	138	ALA	O-C-N	-9.38	108.74	122.43
4	1	147	ARG	N-CA-C	9.38	123.29	110.35
4	X	147	ARG	N-CA-C	9.37	123.29	110.35
4	2	147	ARG	N-CA-C	9.37	123.28	110.35
4	V	147	ARG	N-CA-C	9.37	123.28	110.35
4	4	147	ARG	N-CA-C	9.37	123.28	110.35
4	5	147	ARG	N-CA-C	9.36	123.27	110.35
1	P	604	ASN	CA-CB-CG	9.36	121.96	112.60
1	A	604	ASN	CA-CB-CG	9.35	121.94	112.60
1	J	604	ASN	CA-CB-CG	9.35	121.95	112.60
1	D	604	ASN	CA-CB-CG	9.34	121.94	112.60
4	Y	147	ARG	N-CA-C	9.34	123.23	110.35
4	3	147	ARG	N-CA-C	9.34	123.23	110.35
1	G	604	ASN	CA-CB-CG	9.33	121.93	112.60
4	8	147	ARG	N-CA-C	9.32	123.21	110.35
2	E	138	ALA	O-C-N	-9.31	108.84	122.43
2	H	138	ALA	O-C-N	-9.31	108.84	122.43
4	Z	3	ASP	CA-CB-CG	9.28	121.88	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	3	ASP	CA-CB-CG	9.28	121.88	112.60
2	B	138	ALA	O-C-N	-9.27	108.89	122.43
4	3	3	ASP	CA-CB-CG	9.27	121.87	112.60
4	X	3	ASP	CA-CB-CG	9.24	121.84	112.60
4	8	3	ASP	CA-CB-CG	9.24	121.84	112.60
4	4	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	W	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	2	3	ASP	CA-CB-CG	9.22	121.82	112.60
4	7	3	ASP	CA-CB-CG	9.21	121.81	112.60
4	Y	3	ASP	CA-CB-CG	9.21	121.81	112.60
4	0	3	ASP	CA-CB-CG	9.21	121.81	112.60
4	5	3	ASP	CA-CB-CG	9.21	121.81	112.60
4	V	3	ASP	CA-CB-CG	9.21	121.81	112.60
4	9	3	ASP	CA-CB-CG	9.16	121.76	112.60
1	J	264	ASP	CB-CA-C	-8.88	100.42	111.43
1	A	264	ASP	CB-CA-C	-8.85	100.45	111.43
4	2	179	ASP	CA-CB-CG	8.84	121.44	112.60
4	Z	179	ASP	CA-CB-CG	8.83	121.43	112.60
1	P	264	ASP	CB-CA-C	-8.82	100.49	111.43
4	9	179	ASP	CA-CB-CG	8.82	121.42	112.60
4	3	179	ASP	CA-CB-CG	8.81	121.41	112.60
4	7	179	ASP	CA-CB-CG	8.80	121.40	112.60
4	V	179	ASP	CA-CB-CG	8.80	121.40	112.60
4	W	179	ASP	CA-CB-CG	8.80	121.40	112.60
4	1	179	ASP	CA-CB-CG	8.79	121.39	112.60
4	X	179	ASP	CA-CB-CG	8.77	121.37	112.60
1	G	264	ASP	CB-CA-C	-8.77	100.55	111.43
4	5	179	ASP	CA-CB-CG	8.77	121.37	112.60
4	8	179	ASP	CA-CB-CG	8.75	121.35	112.60
4	0	179	ASP	CA-CB-CG	8.75	121.35	112.60
4	4	179	ASP	CA-CB-CG	8.73	121.33	112.60
4	Y	179	ASP	CA-CB-CG	8.73	121.33	112.60
1	D	264	ASP	CB-CA-C	-8.73	100.61	111.43
1	J	752	ASP	CA-CB-CG	8.71	121.31	112.60
1	P	752	ASP	CA-CB-CG	8.70	121.30	112.60
1	G	752	ASP	CA-CB-CG	8.63	121.23	112.60
1	D	784	ALA	N-CA-C	-8.58	101.89	111.07
1	D	752	ASP	CA-CB-CG	8.55	121.15	112.60
1	A	752	ASP	CA-CB-CG	8.54	121.14	112.60
1	A	264	ASP	N-CA-CB	-8.40	97.92	110.86
1	J	264	ASP	N-CA-CB	-8.38	97.95	110.86
1	P	264	ASP	N-CA-CB	-8.38	97.96	110.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	752	ASP	CB-CA-C	8.37	121.52	111.22
1	G	219	GLU	N-CA-C	-8.36	92.99	110.80
1	J	219	GLU	N-CA-C	-8.35	93.02	110.80
1	P	219	GLU	N-CA-C	-8.34	93.03	110.80
1	A	752	ASP	CB-CA-C	8.34	121.48	111.22
1	D	264	ASP	N-CA-CB	-8.34	98.02	110.86
1	G	264	ASP	N-CA-CB	-8.34	98.02	110.86
1	J	141	LEU	CB-CA-C	-8.30	97.79	110.90
1	A	219	GLU	N-CA-C	-8.30	93.13	110.80
1	P	756	THR	N-CA-CB	-8.30	97.61	110.39
1	G	141	LEU	CB-CA-C	-8.29	97.80	110.90
1	J	752	ASP	CB-CA-C	8.29	121.42	111.22
1	J	756	THR	N-CA-CB	-8.29	97.62	110.39
1	G	756	THR	N-CA-CB	-8.28	97.64	110.39
1	G	752	ASP	CB-CA-C	8.27	121.39	111.22
1	D	141	LEU	CB-CA-C	-8.26	97.84	110.90
1	D	315	VAL	N-CA-C	8.25	120.01	112.17
1	D	756	THR	N-CA-CB	-8.24	97.69	110.39
1	P	141	LEU	CB-CA-C	-8.24	97.88	110.90
1	D	219	GLU	N-CA-C	-8.23	93.26	110.80
1	A	75	ASP	N-CA-CB	8.23	122.97	110.79
1	A	315	VAL	N-CA-C	8.22	119.98	112.17
1	A	756	THR	N-CA-CB	-8.22	97.73	110.39
1	P	752	ASP	CB-CA-C	8.21	121.31	111.22
1	P	75	ASP	N-CA-CB	8.20	122.93	110.79
1	A	141	LEU	CB-CA-C	-8.19	97.96	110.90
1	G	315	VAL	N-CA-C	8.19	119.95	112.17
1	J	75	ASP	N-CA-CB	8.19	122.91	110.79
1	P	315	VAL	N-CA-C	8.11	119.87	112.17
1	J	315	VAL	N-CA-C	8.10	119.86	112.17
1	P	625	THR	CA-CB-OG1	8.07	121.71	109.60
1	D	625	THR	CA-CB-OG1	8.07	121.70	109.60
1	G	625	THR	CA-CB-OG1	8.07	121.70	109.60
1	D	75	ASP	N-CA-CB	8.05	122.70	110.79
4	1	363	ASP	CA-CB-CG	8.04	120.64	112.60
1	J	625	THR	CA-CB-OG1	8.04	121.65	109.60
1	P	800	ARG	NE-CZ-NH2	-8.02	111.98	119.20
4	3	363	ASP	CA-CB-CG	8.02	120.62	112.60
4	5	363	ASP	CA-CB-CG	8.02	120.62	112.60
4	W	363	ASP	CA-CB-CG	8.01	120.61	112.60
4	V	363	ASP	CA-CB-CG	8.01	120.61	112.60
4	Y	363	ASP	CA-CB-CG	8.01	120.61	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	363	ASP	CA-CB-CG	7.99	120.59	112.60
1	J	800	ARG	NE-CZ-NH2	-7.99	112.01	119.20
4	7	363	ASP	CA-CB-CG	7.98	120.58	112.60
4	X	363	ASP	CA-CB-CG	7.97	120.57	112.60
1	A	625	THR	CA-CB-OG1	7.97	121.55	109.60
4	0	363	ASP	CA-CB-CG	7.97	120.57	112.60
4	9	363	ASP	CA-CB-CG	7.96	120.56	112.60
1	D	641	LYS	CA-C-N	7.96	132.00	120.38
1	D	641	LYS	C-N-CA	7.96	132.00	120.38
4	8	363	ASP	CA-CB-CG	7.96	120.56	112.60
4	4	363	ASP	CA-CB-CG	7.96	120.56	112.60
4	2	363	ASP	CA-CB-CG	7.94	120.54	112.60
1	A	473	ASN	CA-CB-CG	-7.94	104.66	112.60
4	4	128	ASN	CA-CB-CG	7.93	120.53	112.60
1	D	800	ARG	NE-CZ-NH2	-7.93	112.06	119.20
1	G	473	ASN	CA-CB-CG	-7.92	104.68	112.60
4	7	286	ASP	CA-CB-CG	7.91	120.51	112.60
4	Y	286	ASP	CA-CB-CG	7.90	120.50	112.60
1	D	547	ASP	N-CA-C	-7.90	102.67	111.28
1	D	473	ASN	CA-CB-CG	-7.89	104.70	112.60
4	0	286	ASP	CA-CB-CG	7.89	120.50	112.60
4	3	286	ASP	CA-CB-CG	7.89	120.49	112.60
1	P	473	ASN	CA-CB-CG	-7.89	104.71	112.60
4	Z	128	ASN	CA-CB-CG	7.89	120.49	112.60
4	W	128	ASN	CA-CB-CG	7.88	120.48	112.60
4	Z	286	ASP	CA-CB-CG	7.88	120.48	112.60
4	8	128	ASN	CA-CB-CG	7.87	120.47	112.60
4	X	128	ASN	CA-CB-CG	7.87	120.47	112.60
1	G	547	ASP	N-CA-C	-7.87	102.70	111.28
4	8	286	ASP	CA-CB-CG	7.87	120.47	112.60
4	W	286	ASP	CA-CB-CG	7.86	120.46	112.60
4	0	128	ASN	CA-CB-CG	7.86	120.46	112.60
4	2	128	ASN	CA-CB-CG	7.86	120.46	112.60
4	3	128	ASN	CA-CB-CG	7.86	120.46	112.60
4	9	128	ASN	CA-CB-CG	7.86	120.46	112.60
4	1	286	ASP	CA-CB-CG	7.86	120.45	112.60
4	4	286	ASP	CA-CB-CG	7.86	120.46	112.60
4	V	128	ASN	CA-CB-CG	7.85	120.45	112.60
4	Y	128	ASN	CA-CB-CG	7.84	120.44	112.60
4	5	286	ASP	CA-CB-CG	7.84	120.44	112.60
4	7	128	ASN	CA-CB-CG	7.84	120.44	112.60
4	X	286	ASP	CA-CB-CG	7.84	120.44	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	286	ASP	CA-CB-CG	7.84	120.44	112.60
1	J	547	ASP	N-CA-C	-7.83	102.69	111.07
1	A	800	ARG	NE-CZ-NH2	-7.83	112.16	119.20
1	A	547	ASP	N-CA-C	-7.82	102.70	111.07
1	P	547	ASP	N-CA-C	-7.82	102.70	111.07
1	A	641	LYS	CA-C-N	7.82	131.79	120.38
1	A	641	LYS	C-N-CA	7.82	131.79	120.38
4	1	128	ASN	CA-CB-CG	7.82	120.42	112.60
4	9	286	ASP	CA-CB-CG	7.82	120.42	112.60
1	J	473	ASN	CA-CB-CG	-7.81	104.79	112.60
4	2	286	ASP	CA-CB-CG	7.81	120.41	112.60
2	Q	129	THR	CB-CA-C	-7.81	94.78	110.17
4	5	128	ASN	CA-CB-CG	7.81	120.41	112.60
1	P	641	LYS	CA-C-N	7.79	131.76	120.38
1	P	641	LYS	C-N-CA	7.79	131.76	120.38
2	K	129	THR	CB-CA-C	-7.78	94.84	110.17
1	G	800	ARG	NE-CZ-NH2	-7.77	112.21	119.20
1	J	641	LYS	CA-C-N	7.76	131.71	120.38
1	J	641	LYS	C-N-CA	7.76	131.71	120.38
1	G	641	LYS	CA-C-N	7.74	131.69	120.38
1	G	641	LYS	C-N-CA	7.74	131.69	120.38
2	B	129	THR	CB-CA-C	-7.73	94.93	110.17
1	J	784	ALA	N-CA-C	-7.73	101.83	111.11
2	E	129	THR	CB-CA-C	-7.73	94.94	110.17
2	H	129	THR	CB-CA-C	-7.73	94.94	110.17
1	P	447	GLN	N-CA-CB	7.70	121.44	110.12
4	4	25	ASP	CA-CB-CG	7.69	120.29	112.60
1	P	784	ALA	N-CA-C	-7.68	101.89	111.11
1	G	447	GLN	N-CA-CB	7.68	121.41	110.12
1	A	447	GLN	N-CA-CB	7.67	121.40	110.12
1	J	447	GLN	N-CA-CB	7.67	121.39	110.12
4	5	25	ASP	CA-CB-CG	7.67	120.27	112.60
4	Y	25	ASP	CA-CB-CG	7.67	120.27	112.60
4	W	25	ASP	CA-CB-CG	7.66	120.26	112.60
1	A	784	ALA	N-CA-C	-7.66	101.92	111.11
2	H	149	ASP	N-CA-CB	7.66	120.95	110.38
4	0	360	GLN	N-CA-C	-7.65	102.63	110.97
4	5	223	PHE	CA-CB-CG	7.65	121.45	113.80
4	9	25	ASP	CA-CB-CG	7.65	120.25	112.60
1	G	75	ASP	N-CA-CB	7.65	122.99	110.91
4	2	25	ASP	CA-CB-CG	7.65	120.25	112.60
4	0	223	PHE	CA-CB-CG	7.64	121.44	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	149	ASP	N-CA-CB	7.64	120.93	110.38
4	7	223	PHE	CA-CB-CG	7.64	121.44	113.80
1	D	447	GLN	N-CA-CB	7.64	121.35	110.12
4	0	25	ASP	CA-CB-CG	7.64	120.24	112.60
4	1	25	ASP	CA-CB-CG	7.64	120.24	112.60
4	7	25	ASP	CA-CB-CG	7.64	120.24	112.60
4	8	252	ASN	OD1-CG-ND2	-7.64	114.96	122.60
4	V	223	PHE	CA-CB-CG	7.63	121.44	113.80
4	X	223	PHE	CA-CB-CG	7.63	121.43	113.80
4	3	223	PHE	CA-CB-CG	7.63	121.43	113.80
4	Z	25	ASP	CA-CB-CG	7.63	120.23	112.60
4	1	223	PHE	CA-CB-CG	7.63	121.43	113.80
4	V	25	ASP	CA-CB-CG	7.62	120.22	112.60
4	4	360	GLN	N-CA-C	-7.62	102.67	110.97
1	G	784	ALA	N-CA-C	-7.61	101.97	111.11
4	X	25	ASP	CA-CB-CG	7.61	120.21	112.60
4	Y	360	GLN	N-CA-C	-7.61	102.67	110.97
3	F	62	ALA	CA-C-N	-7.60	112.55	122.51
3	F	62	ALA	C-N-CA	-7.60	112.55	122.51
4	4	223	PHE	CA-CB-CG	7.60	121.40	113.80
1	A	698	ASN	CB-CA-C	-7.60	98.02	110.79
4	3	360	GLN	N-CA-C	-7.60	102.68	110.97
1	D	202	SER	CB-CA-C	-7.60	95.30	110.42
4	8	25	ASP	CA-CB-CG	7.59	120.19	112.60
1	A	202	SER	CB-CA-C	-7.58	95.33	110.42
4	3	25	ASP	CA-CB-CG	7.58	120.19	112.60
4	5	360	GLN	N-CA-C	-7.58	102.70	110.97
4	7	360	GLN	N-CA-C	-7.58	102.70	110.97
4	2	223	PHE	CA-CB-CG	7.58	121.38	113.80
4	Z	360	GLN	N-CA-C	-7.57	102.72	110.97
4	W	360	GLN	N-CA-C	-7.57	102.72	110.97
4	X	360	GLN	N-CA-C	-7.57	102.72	110.97
1	J	202	SER	CB-CA-C	-7.57	95.36	110.42
1	J	698	ASN	CB-CA-C	-7.57	98.08	110.79
4	W	223	PHE	CA-CB-CG	7.57	121.36	113.80
1	G	202	SER	CB-CA-C	-7.56	95.37	110.42
2	K	149	ASP	N-CA-CB	7.56	120.82	110.38
4	3	252	ASN	OD1-CG-ND2	-7.56	115.04	122.60
4	Y	223	PHE	CA-CB-CG	7.56	121.36	113.80
4	7	252	ASN	OD1-CG-ND2	-7.55	115.05	122.60
4	8	360	GLN	N-CA-C	-7.55	102.74	110.97
4	Z	223	PHE	CA-CB-CG	7.55	121.35	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	62	ALA	CA-C-N	-7.55	112.62	122.51
3	I	62	ALA	C-N-CA	-7.55	112.62	122.51
4	9	223	PHE	CA-CB-CG	7.55	121.35	113.80
4	1	360	GLN	N-CA-C	-7.55	102.74	110.97
4	2	360	GLN	N-CA-C	-7.55	102.74	110.97
1	P	698	ASN	CB-CA-C	-7.54	98.11	110.79
1	P	202	SER	CB-CA-C	-7.54	95.42	110.42
4	1	252	ASN	OD1-CG-ND2	-7.54	115.06	122.60
4	9	252	ASN	OD1-CG-ND2	-7.53	115.07	122.60
4	V	360	GLN	N-CA-C	-7.53	102.76	110.97
4	V	252	ASN	OD1-CG-ND2	-7.53	115.07	122.60
4	V	173	HIS	CA-CB-CG	-7.51	106.29	113.80
1	D	698	ASN	CB-CA-C	-7.51	98.18	110.79
4	1	215	LYS	N-CA-C	7.51	119.25	111.14
3	C	62	ALA	CA-C-N	-7.51	112.68	122.51
3	C	62	ALA	C-N-CA	-7.51	112.68	122.51
4	W	215	LYS	N-CA-C	7.50	119.25	111.14
4	2	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
4	Z	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
4	5	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
2	Q	149	ASP	N-CA-CB	7.50	120.73	110.38
4	1	62	ARG	N-CA-C	7.50	120.33	111.71
4	9	360	GLN	N-CA-C	-7.50	102.80	110.97
4	0	252	ASN	OD1-CG-ND2	-7.49	115.11	122.60
4	5	215	LYS	N-CA-C	7.49	119.23	111.14
4	Z	62	ARG	N-CA-C	7.49	120.33	111.71
4	Z	215	LYS	N-CA-C	7.49	119.23	111.14
4	2	62	ARG	N-CA-C	7.49	120.33	111.71
1	G	698	ASN	CB-CA-C	-7.49	98.21	110.79
2	K	141	PRO	N-CA-CB	-7.49	95.82	103.08
4	0	62	ARG	N-CA-C	7.49	120.32	111.71
4	8	62	ARG	N-CA-C	7.49	120.32	111.71
4	X	62	ARG	N-CA-C	7.49	120.32	111.71
2	B	140	PHE	O-C-N	-7.48	112.72	121.32
2	E	149	ASP	N-CA-CB	7.48	120.70	110.38
4	4	215	LYS	N-CA-C	7.48	119.22	111.14
4	V	215	LYS	N-CA-C	7.48	119.22	111.14
4	W	62	ARG	N-CA-C	7.48	120.31	111.71
4	X	173	HIS	CA-CB-CG	-7.48	106.32	113.80
4	8	223	PHE	CA-CB-CG	7.48	121.28	113.80
4	W	252	ASN	OD1-CG-ND2	-7.48	115.12	122.60
4	Y	215	LYS	N-CA-C	7.48	119.22	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	62	ARG	N-CA-C	7.48	120.31	111.71
4	7	62	ARG	N-CA-C	7.48	120.31	111.71
4	3	62	ARG	N-CA-C	7.47	120.30	111.71
4	8	173	HIS	CA-CB-CG	-7.47	106.33	113.80
4	2	215	LYS	N-CA-C	7.47	119.21	111.14
4	5	173	HIS	CA-CB-CG	-7.47	106.33	113.80
4	X	215	LYS	N-CA-C	7.47	119.20	111.14
4	X	252	ASN	OD1-CG-ND2	-7.46	115.14	122.60
4	Y	62	ARG	N-CA-C	7.46	120.30	111.71
2	Q	141	PRO	N-CA-CB	-7.46	95.84	103.08
4	3	215	LYS	N-CA-C	7.46	119.20	111.14
4	0	215	LYS	N-CA-C	7.46	119.19	111.14
4	7	173	HIS	CA-CB-CG	-7.46	106.34	113.80
4	Y	252	ASN	OD1-CG-ND2	-7.45	115.15	122.60
4	1	173	HIS	CA-CB-CG	-7.45	106.35	113.80
4	8	215	LYS	N-CA-C	7.45	119.19	111.14
4	9	62	ARG	N-CA-C	7.45	120.28	111.71
4	0	173	HIS	CA-CB-CG	-7.45	106.35	113.80
4	Z	173	HIS	CA-CB-CG	-7.45	106.35	113.80
4	9	173	HIS	CA-CB-CG	-7.45	106.35	113.80
4	9	215	LYS	N-CA-C	7.45	119.18	111.14
4	4	173	HIS	CA-CB-CG	-7.44	106.36	113.80
4	Y	173	HIS	CA-CB-CG	-7.44	106.36	113.80
4	5	62	ARG	N-CA-C	7.43	120.26	111.71
4	4	252	ASN	OD1-CG-ND2	-7.43	115.17	122.60
4	W	173	HIS	CA-CB-CG	-7.43	106.37	113.80
2	E	140	PHE	O-C-N	-7.43	112.78	121.32
3	L	62	ALA	CA-C-N	-7.43	112.78	122.51
3	L	62	ALA	C-N-CA	-7.43	112.78	122.51
4	4	62	ARG	N-CA-C	7.43	120.25	111.71
4	7	215	LYS	N-CA-C	7.42	119.15	111.14
4	2	173	HIS	CA-CB-CG	-7.42	106.38	113.80
4	3	173	HIS	CA-CB-CG	-7.41	106.39	113.80
2	H	141	PRO	N-CA-CB	-7.40	95.90	103.08
2	E	141	PRO	N-CA-CB	-7.39	95.91	103.08
2	Q	140	PHE	O-C-N	-7.39	112.82	121.32
3	R	62	ALA	CA-C-N	-7.38	112.84	122.51
3	R	62	ALA	C-N-CA	-7.38	112.84	122.51
2	B	141	PRO	N-CA-CB	-7.38	95.92	103.08
1	D	506	GLU	CA-C-N	-7.37	112.47	122.63
1	D	506	GLU	C-N-CA	-7.37	112.47	122.63
2	H	140	PHE	O-C-N	-7.36	112.86	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5	34	ILE	CA-CB-CG2	-7.33	98.04	110.50
4	Y	34	ILE	CA-CB-CG2	-7.32	98.06	110.50
4	4	34	ILE	CA-CB-CG2	-7.31	98.08	110.50
4	7	34	ILE	CA-CB-CG2	-7.31	98.08	110.50
4	Z	34	ILE	CA-CB-CG2	-7.30	98.08	110.50
4	V	34	ILE	CA-CB-CG2	-7.30	98.08	110.50
4	3	34	ILE	CA-CB-CG2	-7.30	98.09	110.50
4	0	34	ILE	CA-CB-CG2	-7.30	98.09	110.50
4	W	34	ILE	CA-CB-CG2	-7.30	98.09	110.50
4	1	34	ILE	CA-CB-CG2	-7.29	98.11	110.50
4	X	34	ILE	CA-CB-CG2	-7.28	98.12	110.50
4	9	34	ILE	CA-CB-CG2	-7.28	98.13	110.50
2	K	140	PHE	O-C-N	-7.28	112.95	121.32
4	2	34	ILE	CA-CB-CG2	-7.27	98.13	110.50
4	8	34	ILE	CA-CB-CG2	-7.27	98.14	110.50
4	2	159	VAL	CB-CA-C	-7.26	99.06	110.69
4	7	159	VAL	CB-CA-C	-7.26	99.08	110.69
4	4	159	VAL	CB-CA-C	-7.25	99.08	110.69
1	P	506	GLU	CA-C-N	-7.25	112.62	122.63
1	P	506	GLU	C-N-CA	-7.25	112.62	122.63
4	0	159	VAL	CB-CA-C	-7.25	99.08	110.69
4	Y	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	W	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	9	159	VAL	CB-CA-C	-7.24	99.10	110.69
4	V	159	VAL	CB-CA-C	-7.24	99.10	110.69
4	3	159	VAL	CB-CA-C	-7.24	99.11	110.69
1	G	506	GLU	CA-C-N	-7.24	112.64	122.63
1	G	506	GLU	C-N-CA	-7.24	112.64	122.63
4	1	159	VAL	CB-CA-C	-7.24	99.11	110.69
1	G	76	GLN	N-CA-C	-7.23	102.76	113.61
4	5	159	VAL	CB-CA-C	-7.23	99.12	110.69
4	8	159	VAL	CB-CA-C	-7.22	99.13	110.69
1	D	76	GLN	N-CA-C	-7.22	102.79	113.61
4	X	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	X	323	SER	N-CA-C	7.22	121.72	112.34
4	Z	159	VAL	CB-CA-C	-7.22	99.14	110.69
1	A	76	GLN	N-CA-C	-7.20	102.81	113.61
1	J	506	GLU	CA-C-N	-7.20	112.69	122.63
1	J	506	GLU	C-N-CA	-7.20	112.69	122.63
1	A	506	GLU	CA-C-N	-7.20	112.70	122.63
1	A	506	GLU	C-N-CA	-7.20	112.70	122.63
1	P	76	GLN	N-CA-C	-7.20	102.81	113.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	625	THR	CA-CB-CG2	-7.19	98.27	110.50
1	P	625	THR	CA-CB-CG2	-7.18	98.29	110.50
4	1	323	SER	N-CA-C	7.17	121.66	112.34
4	9	323	SER	N-CA-C	7.17	121.66	112.34
4	V	323	SER	N-CA-C	7.16	121.65	112.34
4	8	259	GLU	CB-CG-CD	7.16	124.78	112.60
4	5	259	GLU	CB-CG-CD	7.16	124.77	112.60
4	W	323	SER	N-CA-C	7.16	121.64	112.34
4	Z	323	SER	N-CA-C	7.16	121.64	112.34
4	0	323	SER	N-CA-C	7.16	121.64	112.34
4	4	323	SER	N-CA-C	7.16	121.64	112.34
4	V	259	GLU	CB-CG-CD	7.15	124.76	112.60
1	J	76	GLN	N-CA-C	-7.15	102.88	113.61
4	3	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	W	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	2	259	GLU	CB-CG-CD	7.15	124.75	112.60
4	7	323	SER	N-CA-C	7.15	121.63	112.34
4	X	259	GLU	CB-CG-CD	7.15	124.75	112.60
4	1	259	GLU	CB-CG-CD	7.15	124.75	112.60
4	4	259	GLU	CB-CG-CD	7.14	124.75	112.60
1	A	625	THR	CA-CB-CG2	-7.14	98.36	110.50
4	0	259	GLU	CB-CG-CD	7.14	124.74	112.60
4	7	259	GLU	CB-CG-CD	7.14	124.74	112.60
4	8	323	SER	N-CA-C	7.14	121.62	112.34
4	9	259	GLU	CB-CG-CD	7.14	124.73	112.60
4	Y	323	SER	N-CA-C	7.14	121.62	112.34
4	3	323	SER	N-CA-C	7.14	121.62	112.34
4	Y	259	GLU	CB-CG-CD	7.13	124.73	112.60
1	J	625	THR	CA-CB-CG2	-7.13	98.37	110.50
4	5	323	SER	N-CA-C	7.13	121.60	112.34
4	2	323	SER	N-CA-C	7.12	121.60	112.34
4	Z	259	GLU	CB-CG-CD	7.12	124.71	112.60
1	D	625	THR	CA-CB-CG2	-7.08	98.46	110.50
1	J	652	LEU	O-C-N	7.04	130.28	122.11
4	5	69	TYR	CA-C-N	7.04	126.74	119.56
4	5	69	TYR	C-N-CA	7.04	126.74	119.56
4	4	69	TYR	CA-C-N	7.03	126.73	119.56
4	4	69	TYR	C-N-CA	7.03	126.73	119.56
4	0	69	TYR	CA-C-N	7.03	126.73	119.56
4	0	69	TYR	C-N-CA	7.03	126.73	119.56
4	3	69	TYR	CA-C-N	7.03	126.72	119.56
4	3	69	TYR	C-N-CA	7.03	126.72	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	69	TYR	CA-C-N	7.02	126.72	119.56
4	Y	69	TYR	C-N-CA	7.02	126.72	119.56
4	5	73	HIS	CA-CB-CG	-7.02	106.78	113.80
4	2	69	TYR	CA-C-N	7.01	126.71	119.56
4	2	69	TYR	C-N-CA	7.01	126.71	119.56
4	V	69	TYR	CA-C-N	7.01	126.71	119.56
4	V	69	TYR	C-N-CA	7.01	126.71	119.56
1	G	652	LEU	O-C-N	7.00	130.23	122.11
1	A	686	MET	CA-C-N	-7.00	111.41	121.42
1	A	686	MET	C-N-CA	-7.00	111.41	121.42
4	W	73	HIS	CA-CB-CG	-7.00	106.80	113.80
4	3	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	8	73	HIS	CA-CB-CG	-6.99	106.81	113.80
1	P	652	LEU	O-C-N	6.99	130.22	122.11
4	1	69	TYR	CA-C-N	6.99	126.69	119.56
4	1	69	TYR	C-N-CA	6.99	126.69	119.56
4	1	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	7	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	1	287	ILE	CB-CA-C	-6.98	102.72	112.14
4	9	69	TYR	CA-C-N	6.98	126.68	119.56
4	9	69	TYR	C-N-CA	6.98	126.68	119.56
4	W	69	TYR	CA-C-N	6.98	126.68	119.56
4	W	69	TYR	C-N-CA	6.98	126.68	119.56
4	7	69	TYR	CA-C-N	6.97	126.67	119.56
4	7	69	TYR	C-N-CA	6.97	126.67	119.56
1	A	652	LEU	O-C-N	6.97	130.19	122.11
4	2	73	HIS	CA-CB-CG	-6.97	106.83	113.80
4	X	69	TYR	CA-C-N	6.97	126.67	119.56
4	X	69	TYR	C-N-CA	6.97	126.67	119.56
4	Y	287	ILE	CB-CA-C	-6.97	102.73	112.14
4	9	287	ILE	CB-CA-C	-6.96	102.74	112.14
1	D	652	LEU	O-C-N	6.96	130.19	122.11
4	9	73	HIS	CA-CB-CG	-6.96	106.84	113.80
4	Z	69	TYR	CA-C-N	6.96	126.66	119.56
4	Z	69	TYR	C-N-CA	6.96	126.66	119.56
1	D	686	MET	CA-C-N	-6.96	111.47	121.42
1	D	686	MET	C-N-CA	-6.96	111.47	121.42
4	X	73	HIS	CA-CB-CG	-6.96	106.84	113.80
4	Z	287	ILE	CB-CA-C	-6.95	102.75	112.14
4	8	69	TYR	CA-C-N	6.95	126.65	119.56
4	8	69	TYR	C-N-CA	6.95	126.65	119.56
4	4	73	HIS	CA-CB-CG	-6.95	106.86	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	73	HIS	CA-CB-CG	-6.95	106.86	113.80
4	V	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	W	287	ILE	CB-CA-C	-6.95	102.77	112.14
4	0	73	HIS	CA-CB-CG	-6.94	106.86	113.80
4	4	287	ILE	CB-CA-C	-6.94	102.77	112.14
4	X	287	ILE	CB-CA-C	-6.94	102.77	112.14
1	P	686	MET	CA-C-N	-6.94	111.50	121.42
1	P	686	MET	C-N-CA	-6.94	111.50	121.42
1	J	686	MET	CA-C-N	-6.93	111.50	121.42
1	J	686	MET	C-N-CA	-6.93	111.50	121.42
4	5	287	ILE	CB-CA-C	-6.93	102.78	112.14
1	G	686	MET	CA-C-N	-6.93	111.51	121.42
1	G	686	MET	C-N-CA	-6.93	111.51	121.42
4	3	287	ILE	CB-CA-C	-6.93	102.78	112.14
4	8	287	ILE	CB-CA-C	-6.93	102.78	112.14
4	7	287	ILE	CB-CA-C	-6.93	102.78	112.14
1	G	676	ILE	CA-C-N	6.93	128.50	119.84
1	G	676	ILE	C-N-CA	6.93	128.50	119.84
4	Y	73	HIS	CA-CB-CG	-6.93	106.87	113.80
4	Y	287	ILE	N-CA-C	6.92	117.68	110.62
4	0	287	ILE	CB-CA-C	-6.92	102.80	112.14
4	1	287	ILE	N-CA-C	6.91	117.67	110.62
4	Z	73	HIS	CA-CB-CG	-6.91	106.89	113.80
4	2	287	ILE	CB-CA-C	-6.91	102.82	112.14
4	X	287	ILE	N-CA-C	6.89	117.65	110.62
4	0	287	ILE	N-CA-C	6.89	117.65	110.62
4	5	287	ILE	N-CA-C	6.89	117.65	110.62
4	W	287	ILE	N-CA-C	6.89	117.65	110.62
1	G	785	GLU	O-C-N	6.89	131.75	122.59
4	3	191	LYS	CA-C-O	-6.89	113.60	120.70
4	4	287	ILE	N-CA-C	6.88	117.64	110.62
4	V	287	ILE	N-CA-C	6.88	117.64	110.62
4	X	191	LYS	CA-C-O	-6.88	113.61	120.70
4	W	191	LYS	CA-C-O	-6.87	113.62	120.70
4	5	191	LYS	CA-C-O	-6.87	113.62	120.70
4	0	191	LYS	CA-C-O	-6.87	113.62	120.70
4	2	287	ILE	N-CA-C	6.87	117.63	110.62
1	J	676	ILE	CA-C-N	6.87	128.42	119.84
1	J	676	ILE	C-N-CA	6.87	128.42	119.84
4	1	191	LYS	CA-C-O	-6.86	113.63	120.70
4	8	287	ILE	N-CA-C	6.86	117.62	110.62
4	7	287	ILE	N-CA-C	6.86	117.61	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	287	ILE	N-CA-C	6.86	117.61	110.62
1	J	529	PRO	CA-C-N	-6.85	111.69	122.65
1	J	529	PRO	C-N-CA	-6.85	111.69	122.65
4	Z	191	LYS	CA-C-O	-6.85	113.64	120.70
4	V	191	LYS	CA-C-O	-6.85	113.65	120.70
4	9	287	ILE	N-CA-C	6.84	117.60	110.62
1	A	676	ILE	CA-C-N	6.84	128.39	119.84
1	A	676	ILE	C-N-CA	6.84	128.39	119.84
1	P	676	ILE	CA-C-N	6.84	128.39	119.84
1	P	676	ILE	C-N-CA	6.84	128.39	119.84
4	3	287	ILE	N-CA-C	6.84	117.59	110.62
4	9	191	LYS	CA-C-O	-6.84	113.66	120.70
4	8	191	LYS	CA-C-O	-6.83	113.66	120.70
1	J	201	ALA	CB-CA-C	-6.83	106.49	116.53
4	Y	191	LYS	CA-C-O	-6.83	113.67	120.70
1	G	709	LYS	CA-C-N	6.83	134.79	121.41
1	G	709	LYS	C-N-CA	6.83	134.79	121.41
1	P	529	PRO	CA-C-N	-6.83	111.73	122.65
1	P	529	PRO	C-N-CA	-6.83	111.73	122.65
4	2	191	LYS	CA-C-O	-6.83	113.67	120.70
4	7	191	LYS	CA-C-O	-6.82	113.67	120.70
1	G	218	LEU	O-C-N	6.82	131.34	123.29
4	4	191	LYS	CA-C-O	-6.81	113.69	120.70
1	G	578	HIS	N-CA-CB	6.80	121.99	110.49
1	D	529	PRO	CA-C-N	-6.80	111.77	122.65
1	D	529	PRO	C-N-CA	-6.80	111.77	122.65
1	G	529	PRO	CA-C-N	-6.79	111.79	122.65
1	G	529	PRO	C-N-CA	-6.79	111.79	122.65
1	A	529	PRO	CA-C-N	-6.78	111.80	122.65
1	A	529	PRO	C-N-CA	-6.78	111.80	122.65
1	D	146	LYS	N-CA-C	6.78	119.58	108.52
1	D	676	ILE	CA-C-N	6.78	128.32	119.84
1	D	676	ILE	C-N-CA	6.78	128.32	119.84
1	D	201	ALA	CB-CA-C	-6.78	106.56	116.53
1	P	201	ALA	CB-CA-C	-6.78	106.56	116.53
2	E	139	ALA	N-CA-C	-6.78	104.33	114.64
4	Y	214	GLU	CB-CG-CD	6.78	124.12	112.60
4	Z	214	GLU	CB-CG-CD	6.78	124.12	112.60
4	1	259	GLU	N-CA-C	-6.77	104.11	112.38
4	X	214	GLU	CB-CG-CD	6.77	124.11	112.60
4	1	214	GLU	CB-CG-CD	6.77	124.11	112.60
4	5	259	GLU	N-CA-C	-6.77	104.12	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	201	ALA	CB-CA-C	-6.76	106.59	116.53
4	Y	259	GLU	N-CA-C	-6.76	104.13	112.38
4	2	259	GLU	N-CA-C	-6.76	104.13	112.38
1	J	578	HIS	N-CA-CB	6.76	121.91	110.49
1	A	578	HIS	N-CA-CB	6.76	121.91	110.49
4	5	214	GLU	CB-CG-CD	6.76	124.09	112.60
4	9	259	GLU	N-CA-C	-6.76	104.14	112.38
1	P	578	HIS	N-CA-CB	6.75	121.91	110.49
1	P	218	LEU	O-C-N	6.75	131.26	123.29
4	0	259	GLU	N-CA-C	-6.75	104.14	112.38
4	2	214	GLU	CB-CG-CD	6.75	124.08	112.60
4	V	214	GLU	CB-CG-CD	6.75	124.07	112.60
4	0	214	GLU	CB-CG-CD	6.74	124.06	112.60
4	9	214	GLU	CB-CG-CD	6.74	124.06	112.60
4	W	214	GLU	CB-CG-CD	6.74	124.05	112.60
4	W	259	GLU	N-CA-C	-6.74	104.16	112.38
1	A	201	ALA	CB-CA-C	-6.73	106.64	116.53
1	J	218	LEU	O-C-N	6.73	131.23	123.29
4	7	214	GLU	CB-CG-CD	6.73	124.04	112.60
2	B	139	ALA	N-CA-C	-6.73	104.42	114.64
2	Q	139	ALA	N-CA-C	-6.72	104.42	114.64
4	4	214	GLU	CB-CG-CD	6.72	124.03	112.60
4	4	259	GLU	N-CA-C	-6.72	104.17	112.38
4	8	214	GLU	CB-CG-CD	6.72	124.03	112.60
4	3	214	GLU	CB-CG-CD	6.72	124.03	112.60
1	A	146	LYS	N-CA-C	6.72	119.47	108.52
4	8	259	GLU	N-CA-C	-6.72	104.18	112.38
4	Z	259	GLU	N-CA-C	-6.71	104.20	112.38
1	D	578	HIS	N-CA-CB	6.71	121.82	110.49
2	H	139	ALA	N-CA-C	-6.71	104.45	114.64
4	V	259	GLU	N-CA-C	-6.71	104.20	112.38
1	J	146	LYS	N-CA-C	6.70	119.45	108.52
4	7	259	GLU	N-CA-C	-6.70	104.21	112.38
2	K	139	ALA	N-CA-C	-6.69	104.47	114.64
4	X	259	GLU	N-CA-C	-6.69	104.22	112.38
1	P	146	LYS	N-CA-C	6.67	119.40	108.52
4	3	259	GLU	N-CA-C	-6.67	104.24	112.38
1	G	146	LYS	N-CA-C	6.62	119.32	108.52
1	A	218	LEU	O-C-N	6.61	131.09	123.29
1	D	218	LEU	O-C-N	6.59	131.06	123.29
2	Q	139	ALA	O-C-N	6.58	128.91	121.93
1	A	340	ILE	O-C-N	6.57	128.50	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	628	GLY	O-C-N	-6.56	114.45	122.71
2	H	141	PRO	N-CA-C	6.53	118.67	110.70
2	K	139	ALA	O-C-N	6.53	128.85	121.93
1	P	82	PRO	N-CA-CB	6.53	109.41	103.08
2	E	139	ALA	O-C-N	6.52	128.84	121.93
1	D	340	ILE	O-C-N	6.51	128.45	121.87
1	J	82	PRO	N-CA-CB	6.51	109.39	103.08
2	Q	141	PRO	N-CA-C	6.50	118.63	110.70
1	D	217	THR	N-CA-CB	6.50	123.62	111.53
4	X	371	HIS	CA-CB-CG	-6.50	107.30	113.80
4	Z	286	ASP	CA-C-N	6.50	129.36	120.46
4	Z	286	ASP	C-N-CA	6.50	129.36	120.46
2	Q	141	PRO	N-CD-CG	-6.50	93.45	103.20
4	Z	371	HIS	CA-CB-CG	-6.50	107.31	113.80
1	P	156	PHE	N-CA-C	-6.49	104.62	112.54
1	D	156	PHE	N-CA-C	-6.49	104.62	112.54
1	D	82	PRO	N-CA-CB	6.48	109.37	103.08
4	8	371	HIS	CA-CB-CG	-6.48	107.32	113.80
1	A	156	PHE	N-CA-C	-6.48	104.63	112.54
1	G	217	THR	N-CA-CB	6.48	123.58	111.53
4	4	286	ASP	CA-C-N	6.48	129.34	120.46
4	4	286	ASP	C-N-CA	6.48	129.34	120.46
4	0	371	HIS	CA-CB-CG	-6.48	107.32	113.80
1	P	628	GLY	O-C-N	-6.48	114.55	122.71
2	E	141	PRO	N-CA-C	6.47	118.60	110.70
1	J	156	PHE	N-CA-C	-6.47	104.64	112.54
2	H	141	PRO	N-CD-CG	-6.47	93.49	103.20
4	5	371	HIS	CA-CB-CG	-6.47	107.33	113.80
1	G	156	PHE	N-CA-C	-6.46	104.66	112.54
4	0	286	ASP	CA-C-N	6.46	129.31	120.46
4	0	286	ASP	C-N-CA	6.46	129.31	120.46
4	9	286	ASP	CA-C-N	6.46	129.31	120.46
4	9	286	ASP	C-N-CA	6.46	129.31	120.46
4	V	286	ASP	CA-C-N	6.46	129.31	120.46
4	V	286	ASP	C-N-CA	6.46	129.31	120.46
1	J	628	GLY	O-C-N	-6.46	114.57	122.71
4	2	371	HIS	CA-CB-CG	-6.46	107.34	113.80
4	8	286	ASP	CA-C-N	6.46	129.31	120.46
4	8	286	ASP	C-N-CA	6.46	129.31	120.46
4	W	286	ASP	CA-C-N	6.46	129.31	120.46
4	W	286	ASP	C-N-CA	6.46	129.31	120.46
1	A	217	THR	N-CA-CB	6.45	123.53	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	628	GLY	O-C-N	-6.45	114.58	122.71
4	9	371	HIS	CA-CB-CG	-6.45	107.35	113.80
4	W	371	HIS	CA-CB-CG	-6.45	107.35	113.80
4	2	286	ASP	CA-C-N	6.45	129.29	120.46
4	2	286	ASP	C-N-CA	6.45	129.29	120.46
4	4	371	HIS	CA-CB-CG	-6.45	107.36	113.80
4	V	371	HIS	CA-CB-CG	-6.45	107.36	113.80
4	3	371	HIS	CA-CB-CG	-6.44	107.36	113.80
2	K	141	PRO	N-CA-C	6.44	118.56	110.70
4	X	286	ASP	CA-C-N	6.44	129.28	120.46
4	X	286	ASP	C-N-CA	6.44	129.28	120.46
4	7	286	ASP	CA-C-N	6.44	129.28	120.46
4	7	286	ASP	C-N-CA	6.44	129.28	120.46
1	A	628	GLY	O-C-N	-6.44	114.60	122.71
1	P	217	THR	N-CA-CB	6.43	123.49	111.53
4	5	80	ASP	CA-CB-CG	6.43	119.03	112.60
1	D	688	HIS	CA-CB-CG	-6.43	107.37	113.80
2	H	139	ALA	O-C-N	6.43	128.75	121.93
4	1	371	HIS	CA-CB-CG	-6.43	107.37	113.80
4	V	80	ASP	CA-CB-CG	6.43	119.03	112.60
4	Y	371	HIS	CA-CB-CG	-6.43	107.37	113.80
1	P	688	HIS	CA-CB-CG	-6.43	107.37	113.80
4	9	80	ASP	CA-CB-CG	6.43	119.03	112.60
2	B	141	PRO	N-CA-C	6.43	118.54	110.70
2	E	141	PRO	N-CD-CG	-6.42	93.56	103.20
1	J	340	ILE	O-C-N	6.42	128.36	121.87
1	J	217	THR	N-CA-CB	6.42	123.47	111.53
2	B	139	ALA	O-C-N	6.42	128.74	121.93
1	G	82	PRO	N-CA-CB	6.42	109.31	103.08
4	3	286	ASP	CA-C-N	6.42	129.25	120.46
4	3	286	ASP	C-N-CA	6.42	129.25	120.46
4	7	80	ASP	CA-CB-CG	6.42	119.02	112.60
4	V	101	HIS	CB-CG-CD2	-6.42	122.86	131.20
1	P	604	ASN	CA-C-O	6.42	128.40	121.02
4	W	101	HIS	CB-CG-CD2	-6.42	122.86	131.20
1	A	82	PRO	N-CA-CB	6.41	109.30	103.08
4	1	80	ASP	CA-CB-CG	6.41	119.01	112.60
4	1	286	ASP	CA-C-N	6.41	129.24	120.46
4	1	286	ASP	C-N-CA	6.41	129.24	120.46
4	5	286	ASP	CA-C-N	6.40	129.23	120.46
4	5	286	ASP	C-N-CA	6.40	129.23	120.46
4	X	259	GLU	CA-CB-CG	6.40	126.91	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	47	PHE	CB-CA-C	-6.40	100.89	110.24
1	J	688	HIS	CA-CB-CG	-6.40	107.40	113.80
4	7	259	GLU	CA-CB-CG	6.40	126.89	114.10
4	W	80	ASP	CA-CB-CG	6.40	119.00	112.60
4	1	101	HIS	CB-CG-CD2	-6.40	122.89	131.20
4	Y	259	GLU	CA-CB-CG	6.40	126.89	114.10
4	3	259	GLU	CA-CB-CG	6.39	126.89	114.10
4	8	80	ASP	CA-CB-CG	6.39	119.00	112.60
4	9	101	HIS	CB-CG-CD2	-6.39	122.89	131.20
4	V	47	MET	CA-CB-CG	-6.39	101.31	114.10
4	X	80	ASP	CA-CB-CG	6.39	119.00	112.60
2	K	141	PRO	N-CD-CG	-6.39	93.61	103.20
4	4	47	MET	CA-CB-CG	-6.39	101.31	114.10
4	4	101	HIS	CB-CG-CD2	-6.39	122.89	131.20
4	8	259	GLU	CA-CB-CG	6.39	126.88	114.10
1	D	604	ASN	CA-C-O	6.39	128.37	121.02
4	0	101	HIS	CB-CG-CD2	-6.39	122.89	131.20
4	5	259	GLU	CA-CB-CG	6.39	126.88	114.10
4	0	259	GLU	CA-CB-CG	6.39	126.88	114.10
4	4	259	GLU	CA-CB-CG	6.39	126.87	114.10
4	V	259	GLU	CA-CB-CG	6.39	126.88	114.10
1	G	604	ASN	CA-C-O	6.38	128.36	121.02
4	8	101	HIS	CB-CG-CD2	-6.38	122.90	131.20
1	G	340	ILE	O-C-N	6.38	128.32	121.87
1	J	604	ASN	CA-C-O	6.38	128.36	121.02
4	2	101	HIS	CB-CG-CD2	-6.38	122.90	131.20
4	2	259	GLU	CA-CB-CG	6.38	126.86	114.10
4	7	371	HIS	CA-CB-CG	-6.38	107.42	113.80
4	Z	101	HIS	CB-CG-CD2	-6.38	122.91	131.20
4	1	259	GLU	CA-CB-CG	6.38	126.86	114.10
4	9	259	GLU	CA-CB-CG	6.38	126.85	114.10
4	Z	259	GLU	CA-CB-CG	6.38	126.85	114.10
4	W	259	GLU	CA-CB-CG	6.37	126.85	114.10
4	3	80	ASP	CA-CB-CG	6.37	118.97	112.60
1	A	755	HIS	CA-CB-CG	6.37	120.17	113.80
1	G	739	ASP	CB-CA-C	-6.37	102.79	110.94
4	X	47	MET	CA-CB-CG	-6.37	101.37	114.10
4	Y	286	ASP	CA-C-N	6.37	129.18	120.46
4	Y	286	ASP	C-N-CA	6.37	129.18	120.46
4	W	47	MET	CA-CB-CG	-6.36	101.37	114.10
4	W	282	ILE	CA-C-O	-6.36	113.99	121.05
4	Y	80	ASP	CA-CB-CG	6.36	118.96	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2	80	ASP	CA-CB-CG	6.36	118.96	112.60
4	9	47	MET	CA-CB-CG	-6.36	101.38	114.10
4	7	101	HIS	CB-CG-CD2	-6.36	122.94	131.20
1	A	47	PHE	CB-CA-C	-6.36	100.96	110.24
4	2	47	MET	CA-CB-CG	-6.35	101.39	114.10
4	5	47	MET	CA-CB-CG	-6.35	101.40	114.10
4	0	47	MET	CA-CB-CG	-6.35	101.40	114.10
4	4	80	ASP	CA-CB-CG	6.35	118.95	112.60
4	3	47	MET	CA-CB-CG	-6.35	101.40	114.10
4	8	47	MET	CA-CB-CG	-6.35	101.40	114.10
4	7	47	MET	CA-CB-CG	-6.35	101.40	114.10
4	Z	47	MET	CA-CB-CG	-6.35	101.40	114.10
4	0	80	ASP	CA-CB-CG	6.35	118.95	112.60
1	G	739	ASP	N-CA-CB	6.34	119.63	110.37
4	1	47	MET	CA-CB-CG	-6.34	101.42	114.10
4	3	101	HIS	CB-CG-CD2	-6.34	122.96	131.20
4	5	101	HIS	CB-CG-CD2	-6.34	122.96	131.20
4	7	282	ILE	CA-C-O	-6.34	114.02	121.05
4	Y	282	ILE	CA-C-O	-6.34	114.02	121.05
4	Y	101	HIS	CB-CG-CD2	-6.33	122.97	131.20
1	J	47	PHE	CB-CA-C	-6.33	101.00	110.24
4	X	101	HIS	CB-CG-CD2	-6.33	122.97	131.20
4	Y	47	MET	CA-CB-CG	-6.33	101.44	114.10
2	B	141	PRO	N-CD-CG	-6.32	93.72	103.20
1	A	688	HIS	CA-CB-CG	-6.32	107.48	113.80
4	9	282	ILE	CA-C-O	-6.32	114.04	121.05
4	2	282	ILE	CA-C-O	-6.31	114.04	121.05
4	Z	282	ILE	CA-C-O	-6.31	114.04	121.05
4	Z	80	ASP	CA-CB-CG	6.31	118.91	112.60
4	3	282	ILE	CA-C-O	-6.31	114.05	121.05
1	J	755	HIS	CA-CB-CG	6.30	120.11	113.80
4	V	282	ILE	CA-C-O	-6.30	114.05	121.05
1	P	47	PHE	CB-CA-C	-6.30	101.04	110.24
4	X	282	ILE	CA-C-O	-6.30	114.06	121.05
1	A	599	ASN	OD1-CG-ND2	-6.29	116.31	122.60
4	2	1	ASP	CA-CB-CG	6.29	118.89	112.60
4	0	282	ILE	CA-C-O	-6.29	114.07	121.05
4	8	282	ILE	CA-C-O	-6.29	114.07	121.05
4	5	282	ILE	CA-C-O	-6.29	114.07	121.05
1	G	47	PHE	CB-CA-C	-6.28	101.07	110.24
4	5	217	CYS	N-CA-C	6.28	119.57	110.28
1	A	604	ASN	CA-C-O	6.28	128.24	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	755	HIS	CA-CB-CG	6.28	120.08	113.80
1	D	599	ASN	OD1-CG-ND2	-6.27	116.33	122.60
4	1	217	CYS	N-CA-C	6.27	119.56	110.28
4	4	217	CYS	N-CA-C	6.27	119.56	110.28
1	G	599	ASN	OD1-CG-ND2	-6.27	116.33	122.60
4	4	282	ILE	CA-C-O	-6.27	114.09	121.05
1	G	688	HIS	CA-CB-CG	-6.27	107.53	113.80
1	A	524	GLU	N-CA-CB	6.26	119.45	110.06
4	3	217	CYS	N-CA-C	6.26	119.55	110.28
4	9	217	CYS	N-CA-C	6.26	119.55	110.28
4	Y	1	ASP	CA-CB-CG	6.26	118.86	112.60
4	Y	217	CYS	N-CA-C	6.26	119.55	110.28
1	G	524	GLU	N-CA-CB	6.26	119.45	110.06
1	D	631	GLU	CA-C-N	6.26	131.93	120.79
1	D	631	GLU	C-N-CA	6.26	131.93	120.79
4	1	282	ILE	CA-C-O	-6.26	114.11	121.05
4	Z	1	ASP	CA-CB-CG	6.25	118.85	112.60
1	P	631	GLU	CA-C-N	6.25	131.91	120.79
1	P	631	GLU	C-N-CA	6.25	131.91	120.79
4	7	217	CYS	N-CA-C	6.25	119.53	110.28
1	P	340	ILE	O-C-N	6.25	128.18	121.87
4	V	217	CYS	N-CA-C	6.25	119.52	110.28
4	W	217	CYS	N-CA-C	6.25	119.52	110.28
1	D	443	ILE	CB-CA-C	-6.24	103.89	111.88
4	5	1	ASP	CA-CB-CG	6.23	118.83	112.60
4	Z	217	CYS	N-CA-C	6.23	119.50	110.28
4	0	1	ASP	CA-CB-CG	6.23	118.83	112.60
4	8	217	CYS	N-CA-C	6.23	119.50	110.28
4	9	1	ASP	CA-CB-CG	6.23	118.83	112.60
1	P	524	GLU	N-CA-CB	6.23	119.40	110.06
1	J	631	GLU	CA-C-N	6.23	131.88	120.79
1	J	631	GLU	C-N-CA	6.23	131.88	120.79
4	0	217	CYS	N-CA-C	6.23	119.50	110.28
4	2	217	CYS	N-CA-C	6.23	119.50	110.28
4	4	1	ASP	CA-CB-CG	6.23	118.83	112.60
1	D	524	GLU	N-CA-CB	6.22	119.39	110.06
1	P	443	ILE	CB-CA-C	-6.22	103.92	111.88
4	X	217	CYS	N-CA-C	6.22	119.49	110.28
1	A	443	ILE	CB-CA-C	-6.22	103.92	111.88
4	V	1	ASP	CA-CB-CG	6.22	118.82	112.60
1	P	755	HIS	CA-CB-CG	6.22	120.02	113.80
4	X	1	ASP	CA-CB-CG	6.22	118.82	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	755	HIS	CA-CB-CG	6.21	120.01	113.80
4	1	1	ASP	CA-CB-CG	6.21	118.81	112.60
1	J	443	ILE	CB-CA-C	-6.21	103.93	111.88
1	A	341	LEU	CB-CA-C	6.21	122.31	110.27
4	3	1	ASP	CA-CB-CG	6.20	118.80	112.60
4	7	1	ASP	CA-CB-CG	6.20	118.80	112.60
1	A	22	LYS	N-CA-C	-6.19	106.33	114.31
1	A	631	GLU	CA-C-N	6.19	131.80	120.79
1	A	631	GLU	C-N-CA	6.19	131.80	120.79
1	J	599	ASN	OD1-CG-ND2	-6.18	116.42	122.60
4	8	1	ASP	CA-CB-CG	6.18	118.78	112.60
4	W	1	ASP	CA-CB-CG	6.18	118.78	112.60
1	G	291	ILE	N-CA-C	6.18	116.85	110.36
4	9	219	VAL	N-CA-CB	6.18	119.68	111.90
1	G	341	LEU	CB-CA-C	6.17	122.25	110.27
4	X	219	VAL	CB-CA-C	-6.16	102.98	110.99
1	J	341	LEU	CB-CA-C	6.16	122.22	110.27
4	2	219	VAL	CB-CA-C	-6.16	102.98	110.99
4	3	219	VAL	N-CA-CB	6.16	119.66	111.90
1	G	443	ILE	CB-CA-C	-6.16	104.00	111.88
1	J	524	GLU	N-CA-CB	6.16	119.29	110.06
1	J	22	LYS	N-CA-C	-6.15	106.37	114.31
4	8	219	VAL	CB-CA-C	-6.15	102.99	110.99
1	P	341	LEU	CB-CA-C	6.15	122.20	110.27
1	P	599	ASN	OD1-CG-ND2	-6.15	116.45	122.60
4	5	219	VAL	CB-CA-C	-6.15	103.00	110.99
1	A	363	ASN	OD1-CG-ND2	6.14	128.74	122.60
4	Z	205	GLU	N-CA-C	-6.14	104.51	112.68
1	D	22	LYS	N-CA-C	-6.14	106.39	114.31
4	4	219	VAL	CB-CA-C	-6.14	103.01	110.99
1	P	22	LYS	N-CA-C	-6.14	106.39	114.31
4	5	128	ASN	N-CA-CB	-6.14	102.58	111.91
4	7	219	VAL	CB-CA-C	-6.14	103.01	110.99
4	X	205	GLU	N-CA-C	-6.14	104.52	112.68
4	1	219	VAL	CB-CA-C	-6.13	103.02	110.99
4	4	219	VAL	N-CA-CB	6.13	119.62	111.90
4	9	205	GLU	N-CA-C	-6.13	104.53	112.68
4	V	219	VAL	CB-CA-C	-6.13	103.02	110.99
4	Y	219	VAL	CB-CA-C	-6.13	103.02	110.99
4	Z	219	VAL	CB-CA-C	-6.13	103.02	110.99
2	B	129	THR	CA-CB-CG2	6.13	120.91	110.50
4	X	219	VAL	N-CA-CB	6.13	119.62	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	219	VAL	N-CA-CB	6.12	119.62	111.90
2	E	129	THR	CA-CB-CG2	6.12	120.91	110.50
4	0	128	ASN	N-CA-CB	-6.12	102.61	111.91
4	Z	219	VAL	N-CA-CB	6.12	119.61	111.90
4	3	219	VAL	CB-CA-C	-6.12	103.04	110.99
4	2	219	VAL	N-CA-CB	6.12	119.61	111.90
4	4	205	GLU	N-CA-C	-6.12	104.55	112.68
1	D	352	TYR	N-CA-CB	6.11	120.89	110.50
2	K	129	THR	CA-CB-CG2	6.11	120.89	110.50
4	7	219	VAL	N-CA-CB	6.11	119.60	111.90
2	H	129	THR	CA-CB-CG2	6.11	120.89	110.50
1	D	363	ASN	OD1-CG-ND2	6.11	128.71	122.60
4	9	219	VAL	CB-CA-C	-6.11	103.05	110.99
4	7	128	ASN	N-CA-CB	-6.10	102.63	111.91
4	Z	128	ASN	N-CA-CB	-6.10	102.63	111.91
4	0	219	VAL	CB-CA-C	-6.10	103.06	110.99
4	8	219	VAL	N-CA-CB	6.10	119.59	111.90
4	1	128	ASN	N-CA-CB	-6.10	102.64	111.91
4	5	219	VAL	N-CA-CB	6.10	119.59	111.90
4	1	205	GLU	N-CA-C	-6.10	104.57	112.68
4	W	219	VAL	N-CA-CB	6.10	119.58	111.90
4	0	205	GLU	N-CA-C	-6.10	104.57	112.68
4	3	128	ASN	N-CA-CB	-6.10	102.64	111.91
4	Y	128	ASN	N-CA-CB	-6.10	102.64	111.91
4	2	128	ASN	N-CA-CB	-6.09	102.65	111.91
4	2	205	GLU	N-CA-C	-6.09	104.57	112.68
4	W	205	GLU	N-CA-C	-6.09	104.58	112.68
4	8	128	ASN	N-CA-CB	-6.09	102.65	111.91
4	W	219	VAL	CB-CA-C	-6.09	103.07	110.99
4	0	219	VAL	N-CA-CB	6.09	119.58	111.90
1	D	341	LEU	CB-CA-C	6.09	122.08	110.27
4	9	128	ASN	N-CA-CB	-6.09	102.66	111.91
4	W	128	ASN	N-CA-CB	-6.08	102.66	111.91
4	Y	205	GLU	N-CA-C	-6.08	104.59	112.68
1	G	631	GLU	CA-C-N	6.08	131.62	120.79
1	G	631	GLU	C-N-CA	6.08	131.62	120.79
4	Y	219	VAL	N-CA-CB	6.08	119.56	111.90
1	G	22	LYS	N-CA-C	-6.08	106.47	114.31
4	1	219	VAL	N-CA-CB	6.08	119.55	111.90
4	V	128	ASN	N-CA-CB	-6.08	102.67	111.91
4	5	205	GLU	N-CA-C	-6.07	104.61	112.68
1	J	279	LEU	CA-C-N	6.07	125.96	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	279	LEU	C-N-CA	6.07	125.96	119.28
4	7	205	GLU	N-CA-C	-6.07	104.61	112.68
4	3	205	GLU	N-CA-C	-6.07	104.61	112.68
1	G	363	ASN	OD1-CG-ND2	6.06	128.66	122.60
1	P	363	ASN	OD1-CG-ND2	6.06	128.66	122.60
1	A	308	ASN	CA-C-N	6.06	125.68	119.56
1	A	308	ASN	C-N-CA	6.06	125.68	119.56
1	G	165	PHE	N-CA-CB	-6.06	100.25	110.49
4	4	95	ARG	CA-CB-CG	6.06	126.22	114.10
4	7	59	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	A	231	ALA	O-C-N	6.06	129.72	122.27
4	X	128	ASN	N-CA-CB	-6.06	102.70	111.91
4	4	128	ASN	N-CA-CB	-6.06	102.70	111.91
1	J	136	ASN	CA-C-O	6.06	124.80	119.71
1	A	279	LEU	CA-C-N	6.06	125.94	119.28
1	A	279	LEU	C-N-CA	6.06	125.94	119.28
1	J	165	PHE	N-CA-CB	-6.05	100.26	110.49
4	5	95	ARG	CA-CB-CG	6.05	126.21	114.10
4	V	205	GLU	N-CA-C	-6.05	104.63	112.68
4	8	205	GLU	N-CA-C	-6.05	104.64	112.68
1	P	231	ALA	O-C-N	6.04	129.71	122.27
1	G	686	MET	N-CA-CB	-6.04	100.62	110.59
1	J	180	GLU	N-CA-CB	6.04	118.65	110.38
4	Z	95	ARG	CA-CB-CG	6.04	126.18	114.10
1	P	165	PHE	N-CA-CB	-6.04	100.29	110.49
1	P	747	LEU	N-CA-CB	6.04	118.94	109.94
4	0	95	ARG	CA-CB-CG	6.04	126.17	114.10
4	8	59	GLN	OE1-CD-NE2	-6.04	116.56	122.60
4	9	59	GLN	OE1-CD-NE2	-6.04	116.56	122.60
1	J	231	ALA	O-C-N	6.03	129.69	122.27
4	X	95	ARG	CA-CB-CG	6.03	126.17	114.10
1	P	136	ASN	CA-C-O	6.03	124.78	119.71
1	A	165	PHE	N-CA-CB	-6.03	100.30	110.49
1	P	180	GLU	N-CA-CB	6.03	118.64	110.38
1	P	279	LEU	CA-C-N	6.03	125.91	119.28
1	P	279	LEU	C-N-CA	6.03	125.91	119.28
1	A	136	ASN	O-C-N	6.03	126.32	121.38
1	P	686	MET	N-CA-CB	-6.03	100.65	110.59
4	9	95	ARG	CA-CB-CG	6.03	126.15	114.10
1	G	352	TYR	N-CA-CB	6.02	120.74	110.50
4	3	95	ARG	CA-CB-CG	6.02	126.14	114.10
4	8	95	ARG	CA-CB-CG	6.02	126.14	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	9	231	ALA	N-CA-C	6.02	117.51	111.07
1	D	790	THR	CA-C-O	6.02	126.78	119.31
4	1	59	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	D	165	PHE	N-CA-CB	-6.02	100.32	110.49
1	J	686	MET	N-CA-CB	-6.02	100.66	110.59
4	Y	95	ARG	CA-CB-CG	6.01	126.12	114.10
4	0	252	ASN	CA-CB-CG	6.01	118.61	112.60
4	V	95	ARG	CA-CB-CG	6.01	126.12	114.10
1	D	136	ASN	CA-C-O	6.01	124.76	119.71
1	J	363	ASN	OD1-CG-ND2	6.01	128.61	122.60
4	2	59	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	A	686	MET	N-CA-CB	-6.00	100.69	110.59
1	J	352	TYR	N-CA-CB	6.00	120.71	110.50
1	P	352	TYR	N-CA-CB	6.00	120.70	110.50
4	0	59	GLN	OE1-CD-NE2	-6.00	116.60	122.60
4	3	59	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	D	279	LEU	CA-C-N	6.00	125.88	119.28
1	D	279	LEU	C-N-CA	6.00	125.88	119.28
1	D	576	GLU	CA-CB-CG	-6.00	102.10	114.10
4	9	257	CYS	O-C-N	-6.00	116.13	120.27
4	Z	252	ASN	CA-CB-CG	6.00	118.60	112.60
1	G	308	ASN	CA-C-N	5.99	125.61	119.56
1	G	308	ASN	C-N-CA	5.99	125.61	119.56
1	J	747	LEU	N-CA-CB	5.99	118.87	109.94
4	W	95	ARG	CA-CB-CG	5.99	126.08	114.10
4	Y	59	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	D	180	GLU	N-CA-CB	5.99	118.58	110.38
4	5	59	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	D	231	ALA	O-C-N	5.99	129.63	122.27
2	Q	129	THR	CA-CB-CG2	5.99	120.68	110.50
4	5	231	ALA	N-CA-C	5.99	117.48	111.07
4	7	95	ARG	CA-CB-CG	5.99	126.07	114.10
4	4	59	GLN	OE1-CD-NE2	-5.99	116.61	122.60
4	V	231	ALA	N-CA-C	5.98	117.47	111.07
1	A	479	CYS	N-CA-CB	5.98	118.85	109.94
1	G	231	ALA	O-C-N	5.98	129.63	122.27
4	2	95	ARG	CA-CB-CG	5.98	126.06	114.10
1	A	576	GLU	CA-CB-CG	-5.98	102.15	114.10
4	5	5	THR	CA-C-N	5.98	130.70	120.72
4	5	5	THR	C-N-CA	5.98	130.70	120.72
4	Y	5	THR	CA-C-N	5.98	130.70	120.72
4	Y	5	THR	C-N-CA	5.98	130.70	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	95	ARG	CA-CB-CG	5.97	126.05	114.10
1	G	279	LEU	CA-C-N	5.97	125.85	119.28
1	G	279	LEU	C-N-CA	5.97	125.85	119.28
1	J	576	GLU	CA-CB-CG	-5.97	102.16	114.10
4	8	5	THR	CA-C-N	5.97	130.69	120.72
4	8	5	THR	C-N-CA	5.97	130.69	120.72
4	1	5	THR	CA-C-N	5.97	130.69	120.72
4	1	5	THR	C-N-CA	5.97	130.69	120.72
4	9	5	THR	CA-C-N	5.97	130.69	120.72
4	9	5	THR	C-N-CA	5.97	130.69	120.72
4	W	252	ASN	CA-CB-CG	5.97	118.57	112.60
1	A	352	TYR	N-CA-CB	5.97	120.64	110.50
1	G	592	ILE	CA-C-N	-5.97	113.52	122.47
1	G	592	ILE	C-N-CA	-5.97	113.52	122.47
4	3	231	ALA	N-CA-C	5.97	117.45	111.07
4	7	231	ALA	N-CA-C	5.97	117.45	111.07
4	W	59	GLN	OE1-CD-NE2	-5.97	116.63	122.60
4	0	5	THR	CA-C-N	5.96	130.68	120.72
4	0	5	THR	C-N-CA	5.96	130.68	120.72
1	G	576	GLU	CA-CB-CG	-5.96	102.18	114.10
1	D	747	LEU	N-CA-CB	5.96	118.82	109.94
1	G	278	GLN	OE1-CD-NE2	5.96	128.56	122.60
1	P	576	GLU	CA-CB-CG	-5.96	102.18	114.10
4	4	252	ASN	CA-CB-CG	5.96	118.56	112.60
4	W	5	THR	CA-C-N	5.96	130.67	120.72
4	W	5	THR	C-N-CA	5.96	130.67	120.72
4	2	5	THR	CA-C-N	5.96	130.66	120.72
4	2	5	THR	C-N-CA	5.96	130.66	120.72
1	D	686	MET	N-CA-CB	-5.95	100.77	110.59
1	P	632	GLY	O-C-N	5.95	129.40	122.68
4	1	252	ASN	CA-CB-CG	5.95	118.55	112.60
4	V	59	GLN	OE1-CD-NE2	-5.95	116.66	122.60
4	Z	231	ALA	N-CA-C	5.94	117.43	111.07
4	5	252	ASN	CA-CB-CG	5.94	118.54	112.60
4	5	257	CYS	O-C-N	-5.94	116.17	120.27
4	X	97	ALA	N-CA-C	-5.94	102.29	109.72
4	7	5	THR	CA-C-N	5.94	130.64	120.72
4	7	5	THR	C-N-CA	5.94	130.64	120.72
4	X	59	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	A	717	TYR	N-CA-C	5.94	121.17	111.37
1	A	180	GLU	N-CA-CB	5.94	118.51	110.38
4	3	5	THR	CA-C-N	5.94	130.64	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3	5	THR	C-N-CA	5.94	130.64	120.72
4	X	231	ALA	N-CA-C	5.94	117.42	111.07
4	4	5	THR	CA-C-N	5.94	130.63	120.72
4	4	5	THR	C-N-CA	5.94	130.63	120.72
4	Y	231	ALA	N-CA-C	5.94	117.42	111.07
1	A	632	GLY	O-C-N	5.93	129.38	122.68
1	D	308	ASN	CA-C-N	5.93	125.55	119.56
1	D	308	ASN	C-N-CA	5.93	125.55	119.56
4	8	335	ARG	CA-CB-CG	5.93	125.97	114.10
4	0	335	ARG	CA-CB-CG	5.93	125.96	114.10
4	9	263	GLN	CA-C-N	5.93	125.55	119.56
4	9	263	GLN	C-N-CA	5.93	125.55	119.56
1	G	632	GLY	O-C-N	5.93	129.38	122.68
4	V	5	THR	CA-C-N	5.93	130.62	120.72
4	V	5	THR	C-N-CA	5.93	130.62	120.72
4	2	231	ALA	N-CA-C	5.93	117.41	111.07
4	3	335	ARG	CA-CB-CG	5.93	125.95	114.10
4	4	335	ARG	CA-CB-CG	5.93	125.95	114.10
4	Y	252	ASN	CA-CB-CG	5.93	118.53	112.60
4	Y	335	ARG	CA-CB-CG	5.93	125.95	114.10
4	Z	5	THR	CA-C-N	5.93	130.62	120.72
4	Z	5	THR	C-N-CA	5.93	130.62	120.72
1	J	479	CYS	N-CA-CB	5.92	118.95	110.06
4	8	252	ASN	CA-CB-CG	5.92	118.53	112.60
4	X	5	THR	CA-C-N	5.92	130.62	120.72
4	X	5	THR	C-N-CA	5.92	130.62	120.72
1	P	88	ILE	CB-CG1-CD1	-5.92	101.36	113.80
1	J	753	VAL	N-CA-C	5.92	118.48	109.12
4	W	335	ARG	CA-CB-CG	5.92	125.94	114.10
1	J	632	GLY	O-C-N	5.92	129.37	122.68
4	4	231	ALA	N-CA-C	5.92	117.40	111.07
4	7	97	ALA	N-CA-C	-5.92	102.32	109.72
4	9	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	X	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	8	231	ALA	N-CA-C	5.92	117.40	111.07
4	V	252	ASN	CA-CB-CG	5.92	118.52	112.60
1	D	479	CYS	N-CA-CB	5.92	118.93	110.06
4	V	335	ARG	CA-CB-CG	5.92	125.93	114.10
4	W	231	ALA	N-CA-C	5.92	117.40	111.07
4	Z	335	ARG	CA-CB-CG	5.92	125.93	114.10
4	7	335	ARG	CA-CB-CG	5.92	125.93	114.10
1	G	180	GLU	N-CA-CB	5.91	118.48	110.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	592	ILE	CA-C-N	-5.91	113.60	122.47
1	P	592	ILE	C-N-CA	-5.91	113.60	122.47
1	G	88	ILE	CB-CG1-CD1	-5.91	101.39	113.80
1	G	136	ASN	O-C-N	5.91	126.23	121.38
1	G	479	CYS	N-CA-CB	5.91	118.92	110.06
4	8	233	SER	CA-C-O	5.91	128.96	120.51
4	V	263	GLN	CA-C-N	5.91	125.53	119.56
4	V	263	GLN	C-N-CA	5.91	125.53	119.56
1	A	753	VAL	N-CA-C	5.91	118.45	109.12
4	0	34	ILE	CB-CA-C	-5.91	102.39	110.90
4	3	252	ASN	CA-CB-CG	5.91	118.51	112.60
4	7	34	ILE	CB-CA-C	-5.91	102.39	110.90
1	D	717	TYR	N-CA-C	5.91	121.12	111.37
4	Z	59	GLN	OE1-CD-NE2	-5.91	116.69	122.60
1	J	88	ILE	CB-CG1-CD1	-5.91	101.40	113.80
4	0	231	ALA	N-CA-C	5.91	117.39	111.07
4	Y	34	ILE	CB-CA-C	-5.91	102.39	110.90
1	G	136	ASN	CA-C-O	5.90	124.67	119.71
4	1	97	ALA	N-CA-C	-5.90	102.34	109.72
4	5	263	GLN	CA-C-N	5.90	125.52	119.56
4	5	263	GLN	C-N-CA	5.90	125.52	119.56
4	W	97	ALA	N-CA-C	-5.90	102.34	109.72
4	2	97	ALA	N-CA-C	-5.90	102.34	109.72
4	5	34	ILE	CB-CA-C	-5.90	102.40	110.90
4	5	335	ARG	CA-CB-CG	5.90	125.90	114.10
4	7	233	SER	CA-C-O	5.90	128.95	120.51
1	A	747	LEU	N-CA-CB	5.90	118.73	109.94
4	9	34	ILE	CB-CA-C	-5.90	102.41	110.90
1	G	753	VAL	N-CA-C	5.90	118.44	109.12
4	1	233	SER	CA-C-O	5.90	128.94	120.51
4	X	34	ILE	CB-CA-C	-5.90	102.41	110.90
4	Y	97	ALA	N-CA-C	-5.90	102.35	109.72
4	V	34	ILE	CB-CA-C	-5.90	102.41	110.90
1	G	717	TYR	N-CA-C	5.89	121.10	111.37
4	2	252	ASN	CA-CB-CG	5.89	118.50	112.60
1	P	479	CYS	N-CA-CB	5.89	118.90	110.06
4	1	231	ALA	N-CA-C	5.89	117.38	111.07
4	3	34	ILE	CB-CA-C	-5.89	102.42	110.90
4	4	97	ALA	N-CA-C	-5.89	102.35	109.72
4	Z	263	GLN	CA-C-N	5.89	125.51	119.56
4	Z	263	GLN	C-N-CA	5.89	125.51	119.56
4	0	263	GLN	CA-C-N	5.89	125.51	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	0	263	GLN	C-N-CA	5.89	125.51	119.56
4	W	263	GLN	CA-C-N	5.89	125.51	119.56
4	W	263	GLN	C-N-CA	5.89	125.51	119.56
4	4	263	GLN	CA-C-N	5.89	125.51	119.56
4	4	263	GLN	C-N-CA	5.89	125.51	119.56
4	Y	263	GLN	CA-C-N	5.89	125.51	119.56
4	Y	263	GLN	C-N-CA	5.89	125.51	119.56
1	A	592	ILE	CA-C-N	-5.89	113.64	122.47
1	A	592	ILE	C-N-CA	-5.89	113.64	122.47
1	D	136	ASN	O-C-N	5.89	126.21	121.38
1	D	592	ILE	CA-C-N	-5.89	113.64	122.47
1	D	592	ILE	C-N-CA	-5.89	113.64	122.47
4	7	263	GLN	CA-C-N	5.89	125.51	119.56
4	7	263	GLN	C-N-CA	5.89	125.51	119.56
4	9	252	ASN	CA-CB-CG	5.89	118.49	112.60
4	Z	34	ILE	CB-CA-C	-5.89	102.42	110.90
1	D	786	ILE	CB-CA-C	-5.88	104.33	112.04
4	3	263	GLN	CA-C-N	5.88	125.50	119.56
4	3	263	GLN	C-N-CA	5.88	125.50	119.56
4	8	34	ILE	CB-CA-C	-5.88	102.43	110.90
4	9	97	ALA	N-CA-C	-5.88	102.36	109.72
4	2	335	ARG	CA-CB-CG	5.88	125.87	114.10
4	2	34	ILE	CB-CA-C	-5.88	102.43	110.90
4	2	263	GLN	CA-C-N	5.88	125.50	119.56
4	2	263	GLN	C-N-CA	5.88	125.50	119.56
4	5	97	ALA	N-CA-C	-5.88	102.37	109.72
4	W	34	ILE	CB-CA-C	-5.88	102.43	110.90
1	D	23	GLU	N-CA-C	-5.88	104.95	111.71
1	P	136	ASN	O-C-N	5.88	126.20	121.38
4	7	252	ASN	CA-CB-CG	5.88	118.48	112.60
4	0	233	SER	CA-C-O	5.88	128.91	120.51
4	1	34	ILE	CB-CA-C	-5.87	102.44	110.90
4	1	335	ARG	CA-CB-CG	5.87	125.85	114.10
4	W	233	SER	CA-C-O	5.87	128.91	120.51
4	1	263	GLN	CA-C-N	5.87	125.49	119.56
4	1	263	GLN	C-N-CA	5.87	125.49	119.56
4	X	263	GLN	CA-C-N	5.87	125.49	119.56
4	X	263	GLN	C-N-CA	5.87	125.49	119.56
4	W	257	CYS	O-C-N	-5.87	116.22	120.27
1	J	592	ILE	CA-C-N	-5.87	113.67	122.47
1	J	592	ILE	C-N-CA	-5.87	113.67	122.47
4	4	34	ILE	CB-CA-C	-5.87	102.45	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	252	ASN	CA-CB-CG	5.87	118.47	112.60
4	Z	97	ALA	N-CA-C	-5.87	102.38	109.72
4	3	97	ALA	N-CA-C	-5.87	102.39	109.72
4	5	233	SER	CA-C-O	5.87	128.90	120.51
1	D	632	GLY	O-C-N	5.86	129.31	122.68
1	D	718	ALA	O-C-N	5.86	128.83	122.15
1	J	717	TYR	N-CA-C	5.86	121.05	111.37
4	3	254	ARG	N-CA-CB	-5.86	100.58	110.49
4	8	97	ALA	N-CA-C	-5.86	102.39	109.72
4	V	97	ALA	N-CA-C	-5.86	102.39	109.72
1	P	753	VAL	N-CA-C	5.86	118.37	109.12
4	3	257	CYS	O-C-N	-5.85	116.23	120.27
1	A	88	ILE	CB-CG1-CD1	-5.85	101.51	113.80
1	P	717	TYR	N-CA-C	5.85	121.03	111.37
4	1	257	CYS	O-C-N	-5.85	116.23	120.27
4	7	257	CYS	O-C-N	-5.85	116.23	120.27
4	X	233	SER	CA-C-O	5.85	128.88	120.51
1	D	88	ILE	CB-CG1-CD1	-5.85	101.51	113.80
1	G	687	GLU	N-CA-CB	5.85	118.89	110.06
4	2	254	ARG	N-CA-CB	-5.85	100.60	110.49
4	0	97	ALA	N-CA-C	-5.85	102.41	109.72
1	G	747	LEU	N-CA-CB	5.85	118.65	109.94
4	8	254	ARG	N-CA-CB	-5.85	100.61	110.49
4	V	233	SER	CA-C-O	5.85	128.87	120.51
1	J	308	ASN	CA-C-N	5.84	125.46	119.56
1	J	308	ASN	C-N-CA	5.84	125.46	119.56
1	P	308	ASN	CA-C-N	5.84	125.46	119.56
1	P	308	ASN	C-N-CA	5.84	125.46	119.56
1	D	687	GLU	N-CA-CB	5.84	118.88	110.06
1	P	463	ASP	CA-CB-CG	5.84	118.44	112.60
4	2	233	SER	CA-C-O	5.84	128.86	120.51
4	Y	254	ARG	N-CA-CB	-5.84	100.62	110.49
4	X	254	ARG	N-CA-CB	-5.84	100.62	110.49
4	0	257	CYS	O-C-N	-5.84	116.24	120.27
1	A	136	ASN	CA-C-O	5.84	124.61	119.71
1	P	217	THR	O-C-N	5.84	130.04	123.27
4	0	254	ARG	N-CA-CB	-5.84	100.62	110.49
4	Z	257	CYS	O-C-N	-5.83	116.24	120.27
1	D	463	ASP	CA-CB-CG	5.83	118.43	112.60
1	A	278	GLN	OE1-CD-NE2	5.83	128.43	122.60
1	G	463	ASP	CA-CB-CG	5.83	118.43	112.60
1	J	463	ASP	CA-CB-CG	5.83	118.43	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	790	THR	CA-C-O	5.83	126.54	119.31
4	Z	185	LEU	N-CA-C	5.83	118.41	111.71
4	1	254	ARG	N-CA-CB	-5.83	100.64	110.49
1	J	739	ASP	N-CA-CB	5.82	119.62	110.71
1	G	217	THR	O-C-N	5.82	130.02	123.27
4	W	254	ARG	N-CA-CB	-5.82	100.65	110.49
4	3	233	SER	CA-C-O	5.82	128.83	120.51
1	J	23	GLU	N-CA-C	-5.82	105.02	111.71
4	5	254	ARG	N-CA-CB	-5.82	100.66	110.49
4	7	254	ARG	N-CA-CB	-5.82	100.66	110.49
4	9	254	ARG	N-CA-CB	-5.82	100.66	110.49
4	V	254	ARG	N-CA-CB	-5.82	100.66	110.49
1	J	217	THR	O-C-N	5.81	130.01	123.27
4	X	161	HIS	CB-CG-CD2	-5.81	123.64	131.20
1	D	739	ASP	N-CA-CB	5.81	119.60	110.71
4	Z	233	SER	CA-C-O	5.81	128.82	120.51
1	D	278	GLN	OE1-CD-NE2	5.81	128.41	122.60
4	1	185	LEU	N-CA-C	5.81	118.39	111.71
4	X	257	CYS	O-C-N	-5.81	116.26	120.27
1	J	136	ASN	O-C-N	5.81	126.14	121.38
4	4	233	SER	CA-C-O	5.80	128.81	120.51
4	W	135	ALA	O-C-N	-5.80	116.56	123.06
4	Y	113	LYS	CA-CB-CG	5.80	125.70	114.10
4	Y	257	CYS	O-C-N	-5.80	116.27	120.27
1	A	790	THR	CA-C-O	5.80	126.50	119.31
4	8	257	CYS	O-C-N	-5.80	116.27	120.27
4	9	233	SER	CA-C-O	5.80	128.80	120.51
4	V	113	LYS	CA-CB-CG	5.80	125.70	114.10
1	P	687	GLU	N-CA-CB	5.80	118.81	110.06
4	8	263	GLN	CA-C-N	5.80	125.42	119.56
4	8	263	GLN	C-N-CA	5.80	125.42	119.56
4	X	113	LYS	CA-CB-CG	5.79	125.69	114.10
1	J	687	GLU	N-CA-CB	5.79	118.81	110.06
1	P	739	ASP	N-CA-CB	5.79	119.57	110.71
4	1	113	LYS	CA-CB-CG	5.79	125.68	114.10
4	3	113	LYS	CA-CB-CG	5.79	125.68	114.10
4	7	113	LYS	CA-CB-CG	5.79	125.68	114.10
4	4	254	ARG	N-CA-CB	-5.79	100.70	110.49
1	D	753	VAL	N-CA-C	5.79	118.26	109.12
1	A	217	THR	O-C-N	5.79	129.98	123.27
1	P	23	GLU	N-CA-C	-5.79	105.06	111.71
4	5	161	HIS	CB-CG-CD2	-5.79	123.68	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	23	GLU	N-CA-C	-5.78	105.06	111.71
4	0	113	LYS	CA-CB-CG	5.78	125.67	114.10
4	9	113	LYS	CA-CB-CG	5.78	125.66	114.10
4	V	161	HIS	CB-CG-CD2	-5.78	123.68	131.20
4	V	257	CYS	O-C-N	-5.78	116.28	120.27
4	V	263	GLN	OE1-CD-NE2	-5.78	116.82	122.60
4	W	113	LYS	CA-CB-CG	5.78	125.66	114.10
1	A	786	ILE	CB-CA-C	-5.78	104.47	112.04
1	J	790	THR	CA-C-O	5.78	126.47	119.31
4	2	113	LYS	CA-CB-CG	5.78	125.65	114.10
4	4	113	LYS	CA-CB-CG	5.78	125.65	114.10
4	8	113	LYS	CA-CB-CG	5.78	125.65	114.10
1	J	718	ALA	O-C-N	5.77	128.73	122.15
4	3	335	ARG	N-CA-C	5.77	123.10	110.80
4	Z	113	LYS	CA-CB-CG	5.77	125.65	114.10
2	E	138	ALA	CA-C-N	-5.77	110.85	121.41
2	E	138	ALA	C-N-CA	-5.77	110.85	121.41
4	5	113	LYS	CA-CB-CG	5.77	125.65	114.10
4	X	263	GLN	OE1-CD-NE2	-5.77	116.83	122.60
4	Z	254	ARG	N-CA-CB	-5.77	100.74	110.49
4	7	161	HIS	CB-CG-CD2	-5.77	123.70	131.20
4	Y	233	SER	CA-C-O	5.77	128.76	120.51
4	2	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
1	P	278	GLN	OE1-CD-NE2	5.76	128.36	122.60
4	Y	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
4	8	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
4	0	161	HIS	CB-CG-CD2	-5.76	123.72	131.20
4	3	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
4	Z	335	ARG	N-CA-C	5.75	123.06	110.80
1	P	718	ALA	O-C-N	5.75	128.71	122.15
4	4	257	CYS	O-C-N	-5.75	116.30	120.27
4	3	135	ALA	O-C-N	-5.75	116.62	123.06
4	7	335	ARG	N-CA-C	5.75	123.05	110.80
4	8	335	ARG	N-CA-C	5.75	123.05	110.80
1	A	718	ALA	O-C-N	5.75	128.70	122.15
4	4	335	ARG	N-CA-C	5.75	123.04	110.80
2	B	138	ALA	CA-C-N	-5.75	110.89	121.41
2	B	138	ALA	C-N-CA	-5.75	110.89	121.41
1	J	278	GLN	OE1-CD-NE2	5.75	128.35	122.60
4	1	335	ARG	N-CA-C	5.75	123.04	110.80
4	4	263	GLN	OE1-CD-NE2	-5.75	116.85	122.60
4	9	335	ARG	N-CA-C	5.75	123.04	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	335	ARG	N-CA-C	5.75	123.04	110.80
4	2	335	ARG	N-CA-C	5.74	123.03	110.80
4	X	335	ARG	N-CA-C	5.74	123.03	110.80
1	G	23	GLU	N-CA-C	-5.74	105.11	111.71
4	W	335	ARG	N-CA-C	5.74	123.02	110.80
1	A	687	GLU	N-CA-CB	5.74	118.72	110.06
4	Y	335	ARG	N-CA-C	5.74	123.02	110.80
1	G	790	THR	CA-C-O	5.73	126.42	119.31
4	4	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
2	H	138	ALA	CA-C-N	-5.73	110.92	121.41
2	H	138	ALA	C-N-CA	-5.73	110.92	121.41
1	J	828	HIS	CA-C-N	5.73	129.22	121.20
1	J	828	HIS	C-N-CA	5.73	129.22	121.20
4	0	263	GLN	OE1-CD-NE2	-5.73	116.87	122.60
4	9	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
4	1	161	HIS	CB-CG-CD2	-5.72	123.76	131.20
4	Y	262	PHE	CA-CB-CG	-5.72	108.08	113.80
1	A	739	ASP	N-CA-CB	5.72	119.46	110.71
4	0	335	ARG	N-CA-C	5.72	122.98	110.80
4	2	263	GLN	OE1-CD-NE2	-5.72	116.88	122.60
4	7	135	ALA	O-C-N	-5.72	116.66	123.06
4	5	335	ARG	N-CA-C	5.71	122.97	110.80
4	Z	161	HIS	CB-CG-CD2	-5.71	123.77	131.20
4	2	257	CYS	O-C-N	-5.71	116.33	120.27
2	Q	138	ALA	CA-C-N	-5.71	110.97	121.41
2	Q	138	ALA	C-N-CA	-5.71	110.97	121.41
1	A	463	ASP	CA-CB-CG	5.71	118.31	112.60
1	D	828	HIS	CA-C-N	5.71	129.19	121.20
1	D	828	HIS	C-N-CA	5.71	129.19	121.20
1	P	828	HIS	CA-C-N	5.71	129.19	121.20
1	P	828	HIS	C-N-CA	5.71	129.19	121.20
1	G	828	HIS	CA-C-N	5.70	129.19	121.20
1	G	828	HIS	C-N-CA	5.70	129.19	121.20
4	W	161	HIS	CB-CG-CD2	-5.70	123.78	131.20
4	5	135	ALA	O-C-N	-5.70	116.67	123.06
4	8	135	ALA	O-C-N	-5.70	116.68	123.06
1	P	433	VAL	N-CA-C	5.70	115.89	110.42
4	3	185	LEU	N-CA-C	5.70	118.43	111.82
4	Z	135	ALA	O-C-N	-5.70	116.68	123.06
3	I	63	ILE	CB-CA-C	5.70	120.73	110.48
4	9	263	GLN	OE1-CD-NE2	-5.70	116.91	122.60
4	Z	262	PHE	CA-CB-CG	-5.69	108.11	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	135	ALA	O-C-N	-5.69	116.69	123.06
4	Z	263	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	D	739	ASP	CB-CA-C	-5.68	102.89	110.79
4	2	135	ALA	O-C-N	-5.68	116.69	123.06
1	P	785	GLU	N-CA-C	-5.68	104.48	111.75
4	4	135	ALA	O-C-N	-5.68	116.70	123.06
4	W	263	GLN	OE1-CD-NE2	-5.68	116.92	122.60
4	8	263	GLN	OE1-CD-NE2	-5.68	116.92	122.60
2	K	138	ALA	CA-C-N	-5.67	111.03	121.41
2	K	138	ALA	C-N-CA	-5.67	111.03	121.41
4	5	185	LEU	N-CA-C	5.67	118.40	111.82
4	Y	185	LEU	N-CA-C	5.67	118.40	111.82
4	8	185	LEU	N-CA-C	5.67	118.40	111.82
4	V	135	ALA	O-C-N	-5.67	116.71	123.06
1	G	22	LYS	CB-CA-C	5.67	118.55	109.02
3	F	63	ILE	CB-CA-C	5.67	120.68	110.48
4	2	262	PHE	CA-CB-CG	-5.67	108.13	113.80
4	4	185	LEU	N-CA-C	5.66	118.39	111.82
4	V	185	LEU	N-CA-C	5.66	118.39	111.82
1	D	351	ILE	CB-CA-C	-5.66	104.63	111.88
1	J	257	THR	N-CA-C	-5.66	104.80	110.97
1	A	22	LYS	CB-CA-C	5.66	118.53	109.02
1	J	739	ASP	CB-CA-C	-5.66	102.92	110.79
1	P	346	ASP	N-CA-CB	-5.66	101.22	109.82
3	R	63	ILE	CB-CA-C	5.66	120.67	110.48
4	8	262	PHE	CA-CB-CG	-5.66	108.14	113.80
4	9	185	LEU	N-CA-C	5.66	118.39	111.82
4	9	262	PHE	CA-CB-CG	-5.66	108.14	113.80
1	A	351	ILE	CB-CA-C	-5.66	104.64	111.88
1	G	433	VAL	N-CA-C	5.66	115.85	110.42
4	9	135	ALA	O-C-N	-5.66	116.72	123.06
4	Y	135	ALA	O-C-N	-5.66	116.72	123.06
1	J	346	ASP	N-CA-CB	-5.65	101.22	109.82
1	J	433	VAL	N-CA-C	5.65	115.85	110.42
4	0	185	LEU	N-CA-C	5.65	118.38	111.82
4	Y	263	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	D	755	HIS	CA-C-N	5.65	129.56	121.71
1	D	755	HIS	C-N-CA	5.65	129.56	121.71
4	X	185	LEU	N-CA-C	5.65	118.37	111.82
1	J	291	ILE	N-CA-C	5.65	117.06	110.62
4	3	262	PHE	CA-CB-CG	-5.64	108.16	113.80
1	D	291	ILE	N-CA-C	5.64	117.05	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	W	185	LEU	N-CA-C	5.64	118.36	111.82
1	A	346	ASP	N-CA-CB	-5.64	101.25	109.82
1	G	351	ILE	CB-CA-C	-5.64	104.66	111.88
3	C	63	ILE	CB-CA-C	5.64	120.63	110.48
1	D	22	LYS	CB-CA-C	5.64	118.49	109.02
1	D	217	THR	O-C-N	5.64	129.81	123.27
4	O	135	ALA	O-C-N	-5.64	116.74	123.06
1	D	196	PHE	CA-CB-CG	-5.64	108.16	113.80
1	P	568	PRO	CB-CA-C	-5.64	104.01	111.23
4	3	263	GLN	OE1-CD-NE2	-5.64	116.96	122.60
4	5	262	PHE	CA-CB-CG	-5.64	108.16	113.80
1	P	291	ILE	N-CA-C	5.63	117.04	110.62
1	P	22	LYS	CB-CA-C	5.63	118.48	109.02
1	P	739	ASP	CB-CA-C	-5.63	102.96	110.79
4	O	262	PHE	CA-CB-CG	-5.63	108.17	113.80
1	A	433	VAL	N-CA-C	5.63	115.82	110.42
1	J	351	ILE	CB-CA-C	-5.63	104.68	111.88
1	J	568	PRO	CB-CA-C	-5.62	104.03	111.23
4	X	262	PHE	CA-CB-CG	-5.62	108.17	113.80
1	A	739	ASP	CB-CA-C	-5.62	102.97	110.79
1	A	828	HIS	CA-C-N	5.62	129.07	121.20
1	A	828	HIS	C-N-CA	5.62	129.07	121.20
1	P	257	THR	N-CA-C	-5.62	104.84	110.97
3	L	63	ILE	CB-CA-C	5.62	120.60	110.48
4	V	262	PHE	CA-CB-CG	-5.62	108.18	113.80
4	W	262	PHE	CA-CB-CG	-5.62	108.18	113.80
4	5	263	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	D	346	ASP	N-CA-CB	-5.62	101.28	109.82
4	1	262	PHE	CA-CB-CG	-5.61	108.19	113.80
1	J	22	LYS	CB-CA-C	5.61	118.45	109.02
1	P	755	HIS	CA-C-N	5.61	129.51	121.71
1	P	755	HIS	C-N-CA	5.61	129.51	121.71
1	D	257	THR	N-CA-C	-5.61	104.86	110.97
4	2	185	LEU	N-CA-C	5.60	118.32	111.82
1	P	351	ILE	CB-CA-C	-5.60	104.71	111.88
1	P	671	PHE	N-CA-C	5.60	118.94	109.76
1	A	755	HIS	CA-C-N	5.60	129.49	121.71
1	A	755	HIS	C-N-CA	5.60	129.49	121.71
4	1	263	GLN	OE1-CD-NE2	-5.60	117.00	122.60
4	7	263	GLN	OE1-CD-NE2	-5.60	117.00	122.60
4	4	262	PHE	CA-CB-CG	-5.59	108.21	113.80
4	7	44	MET	N-CA-C	-5.59	102.24	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	257	THR	N-CA-C	-5.59	104.88	110.97
1	P	333	ALA	CA-C-O	5.59	126.88	120.90
4	1	135	ALA	O-C-N	-5.59	116.80	123.06
1	D	333	ALA	CA-C-O	5.59	126.88	120.90
1	A	291	ILE	N-CA-C	5.59	116.99	110.62
1	D	433	VAL	N-CA-C	5.59	115.78	110.42
1	G	346	ASP	N-CA-CB	-5.59	101.33	109.82
1	G	623	PHE	CB-CG-CD2	-5.59	111.20	120.70
1	G	785	GLU	CA-C-N	-5.59	111.92	121.97
1	G	785	GLU	C-N-CA	-5.59	111.92	121.97
4	7	185	LEU	N-CA-C	5.59	118.30	111.82
1	D	623	PHE	CB-CG-CD2	-5.58	111.21	120.70
1	P	623	PHE	CB-CG-CD2	-5.58	111.21	120.70
1	A	623	PHE	CB-CG-CD2	-5.58	111.21	120.70
1	G	755	HIS	CA-C-N	5.58	129.46	121.71
1	G	755	HIS	C-N-CA	5.58	129.46	121.71
4	9	137	GLN	CA-C-O	-5.57	115.15	121.00
1	A	568	PRO	CB-CA-C	-5.57	104.10	111.23
1	J	623	PHE	CB-CG-CD2	-5.57	111.23	120.70
4	7	262	PHE	CA-CB-CG	-5.57	108.23	113.80
4	Z	44	MET	N-CA-C	-5.56	102.29	110.52
1	A	196	PHE	CA-CB-CG	-5.56	108.24	113.80
4	1	275	HIS	CB-CG-CD2	-5.56	123.97	131.20
4	W	44	MET	N-CA-C	-5.55	102.30	110.52
1	G	257	THR	N-CA-C	-5.55	104.92	110.97
1	J	309	PRO	CB-CA-C	-5.55	103.58	111.68
1	J	755	HIS	CA-C-N	5.55	129.42	121.71
1	J	755	HIS	C-N-CA	5.55	129.42	121.71
4	5	275	HIS	CB-CG-CD2	-5.55	123.98	131.20
4	9	275	HIS	CB-CG-CD2	-5.55	123.99	131.20
1	G	671	PHE	N-CA-C	5.55	118.86	109.76
1	D	309	PRO	CB-CA-C	-5.54	103.59	111.68
1	D	671	PHE	N-CA-C	5.54	118.85	109.76
4	3	137	GLN	CA-C-O	-5.54	115.18	121.00
1	G	718	ALA	O-C-N	5.54	128.47	122.15
4	0	200	PHE	CA-C-O	5.54	127.93	121.11
1	P	309	PRO	CB-CA-C	-5.54	103.59	111.68
1	G	568	PRO	CB-CA-C	-5.54	104.14	111.23
4	2	44	MET	N-CA-C	-5.54	102.32	110.52
4	8	44	MET	N-CA-C	-5.54	102.32	110.52
4	0	275	HIS	CB-CG-CD2	-5.53	124.01	131.20
4	4	44	MET	N-CA-C	-5.53	102.33	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	W	275	HIS	CB-CG-CD2	-5.53	124.01	131.20
4	Y	275	HIS	CB-CG-CD2	-5.53	124.01	131.20
1	G	309	PRO	CB-CA-C	-5.53	103.61	111.68
4	V	137	GLN	CA-C-O	-5.53	115.20	121.00
1	J	671	PHE	N-CA-C	5.53	118.82	109.76
4	5	312	ARG	NE-CZ-NH2	5.53	124.17	119.20
4	8	349	LEU	CA-C-N	5.53	127.68	120.28
4	8	349	LEU	C-N-CA	5.53	127.68	120.28
4	9	44	MET	N-CA-C	-5.53	102.34	110.52
1	G	333	ALA	CA-C-O	5.52	126.81	120.90
4	7	275	HIS	CB-CG-CD2	-5.52	124.02	131.20
4	4	275	HIS	CB-CG-CD2	-5.52	124.03	131.20
4	0	44	MET	N-CA-C	-5.52	102.35	110.52
4	V	44	MET	N-CA-C	-5.52	102.35	110.52
1	P	196	PHE	CA-CB-CG	-5.51	108.28	113.80
4	Z	349	LEU	CA-C-N	5.51	127.67	120.28
4	Z	349	LEU	C-N-CA	5.51	127.67	120.28
4	X	275	HIS	CB-CG-CD2	-5.51	124.04	131.20
4	7	31	PHE	CA-CB-CG	5.51	119.31	113.80
4	3	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	3	312	ARG	NE-CZ-NH2	5.50	124.15	119.20
4	W	137	GLN	CA-C-O	-5.50	115.22	121.00
1	D	568	PRO	CB-CA-C	-5.50	104.19	111.23
4	X	44	MET	N-CA-C	-5.50	102.38	110.52
4	Z	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	X	200	PHE	CA-C-O	5.50	127.88	121.11
1	J	196	PHE	CA-CB-CG	-5.50	108.30	113.80
4	2	312	ARG	NE-CZ-NH2	5.50	124.15	119.20
4	8	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	Y	44	MET	N-CA-C	-5.50	102.38	110.52
4	3	44	MET	N-CA-C	-5.50	102.39	110.52
4	2	275	HIS	CB-CG-CD2	-5.49	124.06	131.20
4	X	116	ARG	N-CA-C	-5.49	105.29	111.28
4	8	137	GLN	CA-C-O	-5.49	115.24	121.00
4	2	349	LEU	CA-C-N	5.49	127.63	120.28
4	2	349	LEU	C-N-CA	5.49	127.63	120.28
4	8	312	ARG	NE-CZ-NH2	5.49	124.14	119.20
4	2	200	PHE	CA-C-O	5.48	127.86	121.11
4	V	275	HIS	CB-CG-CD2	-5.48	124.07	131.20
1	A	671	PHE	N-CA-C	5.48	118.75	109.76
4	3	200	PHE	CA-C-O	5.48	127.85	121.11
1	A	309	PRO	CB-CA-C	-5.48	103.68	111.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	W	116	ARG	N-CA-C	-5.48	105.31	111.28
4	W	349	LEU	CA-C-N	5.48	127.62	120.28
4	W	349	LEU	C-N-CA	5.48	127.62	120.28
4	5	44	MET	N-CA-C	-5.47	102.42	110.52
4	Z	137	GLN	CA-C-O	-5.47	115.26	121.00
1	A	333	ALA	CA-C-O	5.47	126.75	120.90
1	P	173	GLN	N-CA-CB	-5.47	102.85	111.05
4	1	31	PHE	CA-CB-CG	5.47	119.27	113.80
4	Y	116	ARG	N-CA-C	-5.47	105.32	111.28
1	G	196	PHE	CA-CB-CG	-5.46	108.34	113.80
4	7	349	LEU	CA-C-N	5.46	127.60	120.28
4	7	349	LEU	C-N-CA	5.46	127.60	120.28
4	4	200	PHE	CA-C-O	5.46	127.83	121.11
4	8	200	PHE	CA-C-O	5.46	127.83	121.11
4	Z	200	PHE	CA-C-O	5.46	127.83	121.11
4	9	226	GLU	N-CA-C	-5.46	107.27	114.04
4	1	349	LEU	CA-C-N	5.46	127.59	120.28
4	1	349	LEU	C-N-CA	5.46	127.59	120.28
4	2	31	PHE	CA-CB-CG	5.46	119.26	113.80
4	1	44	MET	N-CA-C	-5.46	102.44	110.52
4	2	116	ARG	N-CA-C	-5.46	105.33	111.28
4	5	349	LEU	CA-C-N	5.46	127.59	120.28
4	5	349	LEU	C-N-CA	5.46	127.59	120.28
1	A	632	GLY	N-CA-C	5.45	120.76	114.16
4	5	137	GLN	CA-C-O	-5.45	115.27	121.00
4	3	349	LEU	CA-C-N	5.45	127.58	120.28
4	3	349	LEU	C-N-CA	5.45	127.58	120.28
1	A	305	ILE	CB-CA-C	-5.45	103.71	111.34
1	D	305	ILE	CB-CA-C	-5.45	103.71	111.34
4	7	137	GLN	CA-C-O	-5.45	115.28	121.00
1	G	203	GLY	N-CA-C	-5.45	106.31	115.62
4	V	200	PHE	CA-C-O	5.45	127.81	121.11
1	G	632	GLY	N-CA-C	5.45	120.75	114.16
4	7	312	ARG	NE-CZ-NH2	5.45	124.10	119.20
4	9	200	PHE	CA-C-O	5.45	127.81	121.11
4	Y	200	PHE	CA-C-O	5.45	127.81	121.11
4	4	137	GLN	CA-C-O	-5.44	115.28	121.00
4	4	349	LEU	CA-C-N	5.44	127.58	120.28
4	4	349	LEU	C-N-CA	5.44	127.58	120.28
4	V	349	LEU	CA-C-N	5.44	127.58	120.28
4	V	349	LEU	C-N-CA	5.44	127.58	120.28
4	Z	31	PHE	CA-CB-CG	5.44	119.24	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	632	GLY	N-CA-C	5.44	120.75	114.16
1	P	632	GLY	N-CA-C	5.44	120.75	114.16
4	X	312	ARG	NE-CZ-NH2	5.44	124.10	119.20
4	1	200	PHE	CA-C-O	5.44	127.80	121.11
4	3	116	ARG	N-CA-C	-5.44	105.35	111.28
4	0	31	PHE	CA-CB-CG	5.44	119.24	113.80
1	J	203	GLY	N-CA-C	-5.44	106.33	115.62
4	9	349	LEU	CA-C-N	5.44	127.56	120.28
4	9	349	LEU	C-N-CA	5.44	127.56	120.28
4	X	349	LEU	CA-C-N	5.44	127.56	120.28
4	X	349	LEU	C-N-CA	5.44	127.56	120.28
4	1	137	GLN	CA-C-O	-5.43	115.29	121.00
4	1	312	ARG	NE-CZ-NH2	5.43	124.09	119.20
4	Z	226	GLU	N-CA-C	-5.43	107.30	114.04
1	A	329	GLU	CA-C-O	5.43	126.18	120.42
1	J	333	ALA	CA-C-O	5.43	126.71	120.90
4	5	116	ARG	N-CA-C	-5.43	105.36	111.28
4	9	116	ARG	N-CA-C	-5.43	105.36	111.28
4	Y	137	GLN	CA-C-O	-5.43	115.30	121.00
4	4	226	GLU	N-CA-C	-5.43	107.31	114.04
4	9	312	ARG	NE-CZ-NH2	5.43	124.08	119.20
1	D	173	GLN	N-CA-CB	-5.42	102.91	111.05
1	D	203	GLY	N-CA-C	-5.42	106.34	115.62
4	0	349	LEU	CA-C-N	5.42	127.55	120.28
4	0	349	LEU	C-N-CA	5.42	127.55	120.28
4	V	257	CYS	N-CA-CB	-5.42	105.24	110.39
4	W	312	ARG	NE-CZ-NH2	5.42	124.08	119.20
4	Z	312	ARG	NE-CZ-NH2	5.42	124.08	119.20
4	1	116	ARG	N-CA-C	-5.42	105.37	111.28
4	V	312	ARG	NE-CZ-NH2	5.42	124.08	119.20
4	7	200	PHE	CA-C-O	5.42	127.78	121.11
4	W	200	PHE	CA-C-O	5.42	127.78	121.11
1	G	305	ILE	CB-CA-C	-5.42	103.75	111.34
4	9	31	PHE	CA-CB-CG	5.42	119.22	113.80
4	X	137	GLN	CA-C-O	-5.42	115.31	121.00
4	4	116	ARG	N-CA-C	-5.42	105.38	111.28
4	X	237	GLU	N-CA-C	5.42	117.28	110.24
4	Y	349	LEU	CA-C-N	5.42	127.54	120.28
4	Y	349	LEU	C-N-CA	5.42	127.54	120.28
4	Z	116	ARG	N-CA-C	-5.42	105.38	111.28
4	2	137	GLN	CA-C-O	-5.42	115.31	121.00
4	4	237	GLU	N-CA-C	5.42	117.28	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7	226	GLU	N-CA-C	-5.42	107.33	114.04
4	V	31	PHE	CA-CB-CG	5.42	119.22	113.80
1	J	173	GLN	N-CA-CB	-5.41	102.93	111.05
4	0	312	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	A	203	GLY	N-CA-C	-5.41	106.37	115.62
4	4	312	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	G	173	GLN	N-CA-CB	-5.41	102.93	111.05
4	0	137	GLN	CA-C-O	-5.41	115.32	121.00
4	2	237	GLU	N-CA-C	5.41	117.27	110.24
4	W	237	GLU	N-CA-C	5.41	117.27	110.24
4	Y	312	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	P	305	ILE	CB-CA-C	-5.41	103.77	111.34
4	0	257	CYS	N-CA-CB	-5.41	105.25	110.39
4	8	257	CYS	N-CA-CB	-5.41	105.25	110.39
4	5	31	PHE	CA-CB-CG	5.41	119.21	113.80
1	J	291	ILE	CB-CA-C	-5.41	104.96	112.04
4	9	237	GLU	N-CA-C	5.41	117.27	110.24
4	X	257	CYS	N-CA-CB	-5.41	105.25	110.39
4	7	257	CYS	N-CA-CB	-5.40	105.26	110.39
4	8	226	GLU	N-CA-C	-5.40	107.34	114.04
2	B	127	ARG	NE-CZ-NH2	5.40	124.06	119.20
1	J	305	ILE	CB-CA-C	-5.40	103.78	111.34
4	W	226	GLU	N-CA-C	-5.40	107.34	114.04
4	8	116	ARG	N-CA-C	-5.40	105.39	111.28
1	P	203	GLY	N-CA-C	-5.40	106.39	115.62
4	Y	31	PHE	CA-CB-CG	5.40	119.20	113.80
1	A	173	GLN	N-CA-CB	-5.39	102.96	111.05
4	5	257	CYS	N-CA-CB	-5.39	105.27	110.39
4	V	116	ARG	N-CA-C	-5.39	105.40	111.28
4	X	226	GLU	N-CA-C	-5.39	107.35	114.04
4	5	200	PHE	CA-C-O	5.39	127.74	121.11
4	W	31	PHE	CA-CB-CG	5.39	119.19	113.80
4	8	31	PHE	CA-CB-CG	5.39	119.19	113.80
4	V	226	GLU	N-CA-C	-5.39	107.36	114.04
1	J	632	GLY	N-CA-C	5.39	120.68	114.16
4	0	116	ARG	N-CA-C	-5.39	105.41	111.28
4	3	237	GLU	N-CA-C	5.39	117.24	110.24
4	X	31	PHE	CA-CB-CG	5.39	119.19	113.80
4	3	91	TYR	N-CA-C	5.38	119.02	112.23
1	G	772	LEU	N-CA-C	-5.38	104.86	111.75
4	Y	226	GLU	N-CA-C	-5.38	107.36	114.04
4	Y	257	CYS	N-CA-CB	-5.38	105.28	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7	116	ARG	N-CA-C	-5.38	105.41	111.28
4	1	237	GLU	N-CA-C	5.38	117.23	110.24
4	Z	257	CYS	N-CA-CB	-5.38	105.28	110.39
4	2	226	GLU	N-CA-C	-5.38	107.37	114.04
4	3	77	THR	N-CA-CB	-5.38	102.62	110.47
4	5	226	GLU	N-CA-C	-5.38	107.37	114.04
4	V	77	THR	N-CA-CB	-5.38	102.62	110.47
4	4	257	CYS	N-CA-CB	-5.38	105.28	110.39
4	Y	349	LEU	O-C-N	5.37	129.48	122.87
4	0	237	GLU	N-CA-C	5.37	117.22	110.24
4	3	31	PHE	CA-CB-CG	5.37	119.17	113.80
4	7	237	GLU	N-CA-C	5.37	117.22	110.24
1	P	291	ILE	CB-CA-C	-5.37	105.01	112.04
4	3	226	GLU	N-CA-C	-5.37	107.39	114.04
4	Z	237	GLU	N-CA-C	5.37	117.22	110.24
4	9	257	CYS	N-CA-CB	-5.37	105.29	110.39
4	0	226	GLU	N-CA-C	-5.36	107.39	114.04
4	4	31	PHE	CA-CB-CG	5.36	119.16	113.80
4	V	91	TYR	N-CA-C	5.36	118.99	112.23
4	2	251	GLY	O-C-N	5.36	129.67	122.70
4	W	257	CYS	N-CA-CB	-5.36	105.30	110.39
1	A	291	ILE	CB-CA-C	-5.36	105.02	112.04
1	D	447	GLN	CB-CA-C	5.36	119.68	110.79
4	8	77	THR	N-CA-CB	-5.35	102.65	110.47
4	V	332	PRO	CA-C-N	5.35	124.69	118.85
4	V	332	PRO	C-N-CA	5.35	124.69	118.85
4	2	257	CYS	N-CA-CB	-5.35	105.30	110.39
4	Z	77	THR	N-CA-CB	-5.35	102.65	110.47
1	A	720	PHE	CA-CB-CG	-5.35	108.45	113.80
4	V	349	LEU	O-C-N	5.35	129.45	122.87
1	D	291	ILE	CB-CA-C	-5.35	105.03	112.04
4	2	91	TYR	N-CA-C	5.35	118.97	112.23
4	9	251	GLY	O-C-N	5.35	129.65	122.70
4	Y	237	GLU	N-CA-C	5.35	117.19	110.24
1	D	649	VAL	CA-C-N	5.34	131.75	121.54
1	D	649	VAL	C-N-CA	5.34	131.75	121.54
4	1	226	GLU	N-CA-C	-5.34	107.41	114.04
4	4	91	TYR	N-CA-C	5.34	118.96	112.23
4	X	77	THR	N-CA-CB	-5.34	102.67	110.47
4	Z	332	PRO	CA-C-N	5.34	124.67	118.85
4	Z	332	PRO	C-N-CA	5.34	124.67	118.85
4	3	257	CYS	N-CA-CB	-5.34	105.31	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5	251	GLY	O-C-N	5.34	129.65	122.70
4	W	79	TRP	CG-CD2-CE3	5.34	139.24	133.90
1	A	649	VAL	CA-C-N	5.34	131.74	121.54
1	A	649	VAL	C-N-CA	5.34	131.74	121.54
1	G	654	ARG	CA-C-N	5.34	127.44	120.28
1	G	654	ARG	C-N-CA	5.34	127.44	120.28
1	J	447	GLN	CB-CA-C	5.34	119.66	110.79
2	K	129	THR	O-C-N	-5.34	115.18	121.32
1	P	447	GLN	CB-CA-C	5.34	119.66	110.79
4	1	257	CYS	N-CA-CB	-5.34	105.31	110.39
4	9	349	LEU	O-C-N	5.34	129.44	122.87
1	G	291	ILE	CB-CA-C	-5.34	105.05	111.88
1	G	649	VAL	CA-C-N	5.34	131.73	121.54
1	G	649	VAL	C-N-CA	5.34	131.73	121.54
4	5	91	TYR	N-CA-C	5.33	118.95	112.23
4	8	237	GLU	N-CA-C	5.33	117.18	110.24
2	H	129	THR	O-C-N	-5.33	115.19	121.32
4	5	237	GLU	N-CA-C	5.33	117.17	110.24
4	3	349	LEU	O-C-N	5.33	129.43	122.87
4	4	349	LEU	O-C-N	5.33	129.43	122.87
4	V	237	GLU	N-CA-C	5.33	117.17	110.24
4	W	91	TYR	N-CA-C	5.33	118.95	112.23
4	X	349	LEU	O-C-N	5.33	129.43	122.87
4	Y	91	TYR	N-CA-C	5.33	118.95	112.23
4	2	77	THR	N-CA-CB	-5.33	102.69	110.47
4	7	77	THR	N-CA-CB	-5.33	102.69	110.47
4	2	332	PRO	CA-C-N	5.33	124.66	118.85
4	2	332	PRO	C-N-CA	5.33	124.66	118.85
4	Y	77	THR	N-CA-CB	-5.33	102.69	110.47
4	5	332	PRO	CA-C-N	5.33	124.66	118.85
4	5	332	PRO	C-N-CA	5.33	124.66	118.85
4	Z	91	TYR	N-CA-C	5.33	118.94	112.23
1	D	654	ARG	CA-C-N	5.32	127.41	120.28
1	D	654	ARG	C-N-CA	5.32	127.41	120.28
4	2	349	LEU	O-C-N	5.32	129.42	122.87
4	1	349	LEU	O-C-N	5.32	129.41	122.87
4	4	332	PRO	CA-C-N	5.32	124.64	118.85
4	4	332	PRO	C-N-CA	5.32	124.64	118.85
4	7	91	TYR	N-CA-C	5.32	118.93	112.23
4	8	251	GLY	O-C-N	5.32	129.61	122.70
4	9	77	THR	N-CA-CB	-5.32	102.71	110.47
4	Z	251	GLY	O-C-N	5.32	129.61	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	592	ILE	N-CA-CB	-5.31	102.46	111.23
4	0	77	THR	N-CA-CB	-5.31	102.71	110.47
4	3	79	TRP	CG-CD2-CE3	5.31	139.21	133.90
4	4	79	TRP	CG-CD2-CE3	5.31	139.21	133.90
1	A	654	ARG	CA-C-N	5.31	127.40	120.28
1	A	654	ARG	C-N-CA	5.31	127.40	120.28
2	H	129	THR	N-CA-CB	5.31	119.83	110.37
1	A	447	GLN	CB-CA-C	5.31	119.61	110.79
4	0	91	TYR	N-CA-C	5.31	118.92	112.23
4	1	332	PRO	CA-C-N	5.31	124.64	118.85
4	1	332	PRO	C-N-CA	5.31	124.64	118.85
4	5	77	THR	N-CA-CB	-5.31	102.72	110.47
4	7	251	GLY	O-C-N	5.31	129.60	122.70
4	7	349	LEU	O-C-N	5.31	129.40	122.87
4	8	91	TYR	N-CA-C	5.31	118.92	112.23
4	X	332	PRO	CA-C-N	5.31	124.64	118.85
4	X	332	PRO	C-N-CA	5.31	124.64	118.85
4	Z	349	LEU	O-C-N	5.31	129.40	122.87
4	7	332	PRO	CA-C-N	5.31	124.64	118.85
4	7	332	PRO	C-N-CA	5.31	124.64	118.85
1	G	447	GLN	CB-CA-C	5.30	119.59	110.79
4	3	251	GLY	O-C-N	5.30	129.59	122.70
4	9	332	PRO	CA-C-N	5.30	124.63	118.85
4	9	332	PRO	C-N-CA	5.30	124.63	118.85
4	X	91	TYR	N-CA-C	5.30	118.91	112.23
2	E	129	THR	O-C-N	-5.30	115.23	121.32
4	1	79	TRP	CG-CD2-CE3	5.30	139.20	133.90
4	1	77	THR	N-CA-CB	-5.30	102.74	110.47
4	1	251	GLY	O-C-N	5.30	129.59	122.70
4	2	79	TRP	CG-CD2-CE3	5.30	139.20	133.90
4	W	332	PRO	CA-C-N	5.30	124.62	118.85
4	W	332	PRO	C-N-CA	5.30	124.62	118.85
4	7	79	TRP	CG-CD2-CE3	5.29	139.19	133.90
4	0	349	LEU	O-C-N	5.29	129.38	122.87
4	4	77	THR	N-CA-CB	-5.29	102.74	110.47
4	0	332	PRO	CA-C-N	5.29	124.62	118.85
4	0	332	PRO	C-N-CA	5.29	124.62	118.85
4	1	91	TYR	N-CA-C	5.29	118.90	112.23
4	8	79	TRP	CG-CD2-CE3	5.29	139.19	133.90
1	D	720	PHE	CA-CB-CG	-5.29	108.51	113.80
1	J	669	PRO	N-CA-CB	5.29	108.03	103.27
4	Y	332	PRO	CA-C-N	5.29	124.62	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	332	PRO	C-N-CA	5.29	124.62	118.85
1	J	601	ASP	CA-CB-CG	-5.29	107.31	112.60
4	9	91	TYR	N-CA-C	5.29	118.89	112.23
4	W	349	LEU	O-C-N	5.29	129.38	122.87
2	E	127	ARG	NE-CZ-NH2	5.29	123.96	119.20
4	Y	251	GLY	O-C-N	5.29	129.57	122.70
4	5	62	ARG	CA-CB-CG	5.28	124.67	114.10
3	C	63	ILE	CG1-CB-CG2	-5.28	94.85	110.70
1	J	649	VAL	CA-C-N	5.28	131.63	121.54
1	J	649	VAL	C-N-CA	5.28	131.63	121.54
1	P	649	VAL	CA-C-N	5.28	131.63	121.54
1	P	649	VAL	C-N-CA	5.28	131.63	121.54
2	Q	129	THR	O-C-N	-5.28	115.25	121.32
4	X	251	GLY	O-C-N	5.28	129.56	122.70
4	Y	79	TRP	CG-CD2-CE3	5.28	139.18	133.90
4	Y	356	TRP	CE2-CD2-CG	-5.28	100.86	107.20
1	D	267	THR	OG1-CB-CG2	5.28	119.86	109.30
4	5	79	TRP	CG-CD2-CE3	5.28	139.18	133.90
1	J	592	ILE	N-CA-CB	-5.28	102.52	111.23
4	8	349	LEU	O-C-N	5.28	129.36	122.87
4	X	79	TRP	CG-CD2-CE3	5.28	139.18	133.90
4	W	251	GLY	O-C-N	5.28	129.56	122.70
1	D	329	GLU	CA-C-O	5.27	126.01	120.42
1	P	669	PRO	N-CA-CB	5.27	108.02	103.27
4	5	349	LEU	O-C-N	5.27	129.35	122.87
4	W	77	THR	N-CA-CB	-5.27	102.77	110.47
1	P	592	ILE	N-CA-CB	-5.27	102.53	111.23
1	P	654	ARG	CA-C-N	5.27	127.34	120.28
1	P	654	ARG	C-N-CA	5.27	127.34	120.28
4	0	79	TRP	CG-CD2-CE3	5.27	139.17	133.90
4	V	251	GLY	O-C-N	5.27	129.55	122.70
1	A	772	LEU	N-CA-C	-5.27	105.01	111.75
4	7	62	ARG	CA-CB-CG	5.27	124.64	114.10
1	G	592	ILE	N-CA-CB	-5.27	102.54	111.23
4	3	332	PRO	CA-C-N	5.27	124.59	118.85
4	3	332	PRO	C-N-CA	5.27	124.59	118.85
4	0	251	GLY	O-C-N	5.26	129.54	122.70
4	8	332	PRO	CA-C-N	5.26	124.59	118.85
4	8	332	PRO	C-N-CA	5.26	124.59	118.85
1	G	669	PRO	N-CA-CB	5.26	108.01	103.27
4	2	101	HIS	CA-C-O	-5.26	114.81	119.86
1	D	157	SER	O-C-N	5.26	127.77	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	63	ILE	CG1-CB-CG2	-5.26	94.92	110.70
1	P	564	ASN	CA-CB-CG	-5.26	107.34	112.60
1	P	720	PHE	CA-CB-CG	-5.26	108.54	113.80
1	J	654	ARG	CA-C-N	5.26	127.33	120.28
1	J	654	ARG	C-N-CA	5.26	127.33	120.28
3	R	63	ILE	CG1-CB-CG2	-5.26	94.93	110.70
4	0	101	HIS	CA-C-O	-5.26	114.81	119.86
4	9	79	TRP	CG-CD2-CE3	5.26	139.16	133.90
4	Z	62	ARG	CA-CB-CG	5.26	124.61	114.10
1	A	601	ASP	CA-CB-CG	-5.25	107.34	112.60
1	G	329	GLU	CA-C-O	5.25	125.99	120.42
1	D	772	LEU	N-CA-C	-5.25	105.03	111.75
3	F	63	ILE	CG1-CB-CG2	-5.25	94.94	110.70
3	I	63	ILE	CG1-CB-CG2	-5.25	94.94	110.70
4	0	62	ARG	CA-CB-CG	5.25	124.61	114.10
4	2	62	ARG	CA-CB-CG	5.25	124.61	114.10
4	V	79	TRP	CG-CD2-CE3	5.25	139.15	133.90
1	P	329	GLU	CA-C-O	5.25	125.98	120.42
1	P	772	LEU	N-CA-C	-5.25	105.03	111.75
4	8	252	ASN	CB-CG-ND2	5.25	124.27	116.40
1	J	564	ASN	CA-CB-CG	-5.25	107.36	112.60
2	Q	129	THR	N-CA-CB	5.25	119.71	110.37
4	W	62	ARG	CA-CB-CG	5.25	124.59	114.10
4	8	62	ARG	CA-CB-CG	5.24	124.58	114.10
4	9	62	ARG	CA-CB-CG	5.24	124.59	114.10
1	A	267	THR	OG1-CB-CG2	5.24	119.78	109.30
1	G	663	ASN	N-CA-C	-5.24	105.74	111.82
4	1	62	ARG	CA-CB-CG	5.24	124.58	114.10
4	3	62	ARG	CA-CB-CG	5.24	124.58	114.10
4	V	62	ARG	CA-CB-CG	5.24	124.58	114.10
4	Y	62	ARG	CA-CB-CG	5.24	124.58	114.10
4	4	62	ARG	CA-CB-CG	5.24	124.57	114.10
4	X	101	HIS	CA-C-O	-5.24	114.83	119.86
1	J	772	LEU	N-CA-C	-5.24	105.05	111.75
4	4	251	GLY	O-C-N	5.24	129.51	122.70
1	P	267	THR	OG1-CB-CG2	5.23	119.77	109.30
4	X	62	ARG	CA-CB-CG	5.23	124.57	114.10
1	A	663	ASN	N-CA-C	-5.23	105.75	111.82
1	G	564	ASN	CA-CB-CG	-5.23	107.37	112.60
1	P	601	ASP	CA-CB-CG	-5.23	107.37	112.60
4	9	252	ASN	CB-CG-ND2	5.23	124.25	116.40
2	B	129	THR	O-C-N	-5.23	115.31	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	592	ILE	N-CA-CB	-5.23	102.61	111.23
1	J	329	GLU	CA-C-O	5.23	125.96	120.42
4	3	356	TRP	CE2-CD2-CG	-5.23	100.93	107.20
4	4	101	HIS	CA-C-O	-5.23	114.84	119.86
4	8	101	HIS	CA-C-O	-5.23	114.84	119.86
4	5	356	TRP	CE2-CD2-CG	-5.22	100.93	107.20
4	7	356	TRP	CE2-CD2-CG	-5.22	100.93	107.20
4	8	22	ALA	N-CA-C	-5.22	102.32	110.10
4	2	356	TRP	CE2-CD2-CG	-5.22	100.94	107.20
4	7	252	ASN	CB-CG-ND2	5.22	124.23	116.40
4	X	252	ASN	CB-CG-ND2	5.22	124.22	116.40
1	A	669	PRO	N-CA-CB	5.21	107.96	103.27
1	D	564	ASN	CA-CB-CG	-5.21	107.39	112.60
1	G	157	SER	O-C-N	5.21	127.72	122.09
4	1	101	HIS	CA-C-O	-5.21	114.86	119.86
4	8	356	TRP	CE2-CD2-CG	-5.21	100.95	107.20
4	W	356	TRP	CE2-CD2-CG	-5.21	100.95	107.20
4	Y	248	ILE	N-CA-CB	-5.21	103.38	110.56
1	J	401	LEU	CD1-CG-CD2	-5.20	99.35	110.80
4	4	252	ASN	CB-CG-ND2	5.20	124.21	116.40
4	9	356	TRP	CE2-CD2-CG	-5.20	100.95	107.20
4	V	101	HIS	CA-C-O	-5.20	114.86	119.86
4	Z	101	HIS	CA-C-O	-5.20	114.87	119.86
1	D	401	LEU	CD1-CG-CD2	-5.20	99.36	110.80
1	P	663	ASN	N-CA-C	-5.20	105.79	111.82
4	1	22	ALA	N-CA-C	-5.20	102.35	110.10
4	2	22	ALA	N-CA-C	-5.20	102.35	110.10
4	5	274	ILE	N-CA-CB	-5.20	102.65	111.23
4	1	274	ILE	N-CA-CB	-5.20	102.65	111.23
4	3	252	ASN	CB-CG-ND2	5.20	124.20	116.40
4	7	22	ALA	N-CA-C	-5.20	102.35	110.10
4	5	101	HIS	CA-C-O	-5.20	114.87	119.86
4	Z	40	HIS	CB-CG-CD2	-5.20	124.44	131.20
1	J	267	THR	OG1-CB-CG2	5.20	119.69	109.30
4	4	22	ALA	N-CA-C	-5.20	102.36	110.10
4	V	252	ASN	CB-CG-ND2	5.20	124.19	116.40
4	W	22	ALA	N-CA-C	-5.20	102.36	110.10
4	X	22	ALA	N-CA-C	-5.20	102.36	110.10
1	A	401	LEU	CD1-CG-CD2	-5.19	99.37	110.80
1	G	720	PHE	CA-CB-CG	-5.19	108.61	113.80
1	J	663	ASN	N-CA-C	-5.19	105.80	111.82
4	0	356	TRP	CE2-CD2-CG	-5.19	100.97	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	267	THR	OG1-CB-CG2	5.19	119.69	109.30
1	D	663	ASN	N-CA-C	-5.19	105.80	111.82
4	1	252	ASN	CB-CG-ND2	5.19	124.19	116.40
4	Z	79	TRP	CG-CD2-CE3	5.19	139.09	133.90
1	J	720	PHE	CA-CB-CG	-5.19	108.61	113.80
1	A	322	VAL	O-C-N	5.19	125.67	120.59
4	5	252	ASN	CB-CG-ND2	5.19	124.18	116.40
2	E	129	THR	N-CA-CB	5.19	119.60	110.37
1	A	564	ASN	CA-CB-CG	-5.18	107.42	112.60
4	4	274	ILE	N-CA-CB	-5.18	102.67	111.23
4	V	356	TRP	CE2-CD2-CG	-5.18	100.98	107.20
4	Y	34	ILE	CA-CB-CG1	5.18	119.21	110.40
2	K	129	THR	N-CA-CB	5.18	119.59	110.37
4	7	50	LYS	CB-CG-CD	-5.18	99.38	111.30
4	Z	22	ALA	N-CA-C	-5.18	102.38	110.10
4	Z	252	ASN	CB-CG-ND2	5.18	124.17	116.40
4	3	22	ALA	N-CA-C	-5.18	102.38	110.10
4	7	274	ILE	N-CA-CB	-5.18	102.68	111.23
2	B	129	THR	N-CA-CB	5.18	119.59	110.37
4	0	22	ALA	N-CA-C	-5.18	102.38	110.10
4	2	252	ASN	CB-CG-ND2	5.18	124.17	116.40
4	V	22	ALA	N-CA-C	-5.18	102.38	110.10
4	W	274	ILE	N-CA-CB	-5.18	102.68	111.23
4	Y	252	ASN	CB-CG-ND2	5.18	124.17	116.40
4	Z	34	ILE	CA-CB-CG1	5.18	119.21	110.40
1	P	38	VAL	N-CA-CB	-5.18	102.69	111.23
4	7	40	HIS	CB-CG-CD2	-5.18	124.47	131.20
1	A	38	VAL	N-CA-CB	-5.18	102.69	111.23
4	5	34	ILE	CA-CB-CG1	5.18	119.20	110.40
4	Y	50	LYS	CB-CG-CD	-5.18	99.40	111.30
4	Y	233	SER	O-C-N	5.18	129.47	122.59
1	P	401	LEU	CD1-CG-CD2	-5.17	99.41	110.80
4	0	274	ILE	N-CA-CB	-5.17	102.69	111.23
4	4	50	LYS	CB-CG-CD	-5.17	99.40	111.30
4	8	274	ILE	N-CA-CB	-5.17	102.69	111.23
4	V	274	ILE	N-CA-CB	-5.17	102.69	111.23
4	W	252	ASN	CB-CG-ND2	5.17	124.16	116.40
4	X	356	TRP	CE2-CD2-CG	-5.17	100.99	107.20
4	1	356	TRP	CE2-CD2-CG	-5.17	100.99	107.20
1	J	38	VAL	N-CA-CB	-5.17	102.70	111.23
1	P	623	PHE	CB-CG-CD1	5.17	129.49	120.70
4	0	248	ILE	N-CA-CB	-5.17	103.42	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2	360	GLN	CB-CG-CD	5.17	121.39	112.60
4	4	40	HIS	CB-CG-CD2	-5.17	124.48	131.20
4	9	101	HIS	CA-C-O	-5.17	114.89	119.86
4	Z	233	SER	O-C-N	5.17	129.47	122.59
4	9	274	ILE	N-CA-CB	-5.17	102.70	111.23
1	P	576	GLU	N-CA-CB	5.17	119.03	110.97
4	1	360	GLN	CB-CG-CD	5.17	121.39	112.60
4	4	356	TRP	CE2-CD2-CG	-5.17	101.00	107.20
4	Y	22	ALA	N-CA-C	-5.17	102.40	110.10
1	G	38	VAL	N-CA-CB	-5.17	102.70	111.23
1	J	157	SER	O-C-N	5.17	127.67	122.09
2	Q	127	ARG	NE-CZ-NH2	5.17	123.85	119.20
4	3	34	ILE	CA-CB-CG1	5.17	119.18	110.40
4	3	274	ILE	N-CA-CB	-5.17	102.71	111.23
4	X	274	ILE	N-CA-CB	-5.17	102.70	111.23
4	0	50	LYS	CB-CG-CD	-5.17	99.42	111.30
4	5	22	ALA	N-CA-C	-5.17	102.40	110.10
4	5	50	LYS	CB-CG-CD	-5.17	99.42	111.30
1	G	401	LEU	CD1-CG-CD2	-5.16	99.44	110.80
1	J	623	PHE	CB-CG-CD1	5.16	129.48	120.70
4	0	252	ASN	CB-CG-ND2	5.16	124.15	116.40
4	9	50	LYS	CB-CG-CD	-5.16	99.42	111.30
4	Y	40	HIS	CB-CG-CD2	-5.16	124.49	131.20
4	Z	50	LYS	CB-CG-CD	-5.16	99.42	111.30
4	7	360	GLN	CB-CG-CD	5.16	121.38	112.60
1	A	623	PHE	CB-CG-CD1	5.16	129.47	120.70
4	1	50	LYS	CB-CG-CD	-5.16	99.43	111.30
4	1	71	ILE	N-CA-CB	-5.16	105.91	112.15
4	9	40	HIS	CB-CG-CD2	-5.16	124.49	131.20
4	Z	360	GLN	CB-CG-CD	5.16	121.37	112.60
1	D	669	PRO	N-CA-CB	5.16	107.91	103.27
4	2	71	ILE	N-CA-CB	-5.16	105.91	112.15
4	3	50	LYS	CB-CG-CD	-5.16	99.44	111.30
4	7	34	ILE	CA-CB-CG1	5.16	119.17	110.40
4	9	22	ALA	N-CA-C	-5.16	102.41	110.10
4	X	360	GLN	CB-CG-CD	5.16	121.37	112.60
3	C	64	THR	O-C-N	5.16	129.56	123.27
4	2	233	SER	O-C-N	5.16	129.45	122.59
4	2	274	ILE	N-CA-CB	-5.16	102.72	111.23
4	9	34	ILE	CA-CB-CG1	5.16	119.17	110.40
4	X	50	LYS	CB-CG-CD	-5.16	99.44	111.30
4	Z	274	ILE	N-CA-CB	-5.16	102.72	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	254	PHE	CA-CB-CG	-5.15	108.65	113.80
4	0	40	HIS	CB-CG-CD2	-5.15	124.50	131.20
4	0	34	ILE	CA-CB-CG1	5.15	119.16	110.40
4	3	40	HIS	CB-CG-CD2	-5.15	124.50	131.20
4	3	248	ILE	N-CA-CB	-5.15	103.45	110.56
1	D	254	PHE	CA-CB-CG	-5.15	108.65	113.80
1	P	694	GLN	CA-C-O	5.15	126.19	120.63
4	0	360	GLN	CB-CG-CD	5.15	121.35	112.60
4	V	34	ILE	CA-CB-CG1	5.15	119.15	110.40
4	Y	274	ILE	N-CA-CB	-5.15	102.73	111.23
1	G	601	ASP	CA-CB-CG	-5.15	107.45	112.60
4	1	40	HIS	CB-CG-CD2	-5.15	124.51	131.20
4	V	50	LYS	CB-CG-CD	-5.15	99.46	111.30
4	V	360	GLN	CB-CG-CD	5.15	121.35	112.60
4	W	34	ILE	CA-CB-CG1	5.15	119.15	110.40
4	W	71	ILE	N-CA-CB	-5.15	105.92	112.15
2	H	127	ARG	NE-CZ-NH2	5.15	123.83	119.20
4	4	233	SER	O-C-N	5.15	129.44	122.59
1	D	601	ASP	CA-CB-CG	-5.14	107.46	112.60
1	G	623	PHE	CB-CG-CD1	5.14	129.44	120.70
4	1	34	ILE	CA-CB-CG1	5.14	119.14	110.40
4	2	50	LYS	CB-CG-CD	-5.14	99.47	111.30
4	4	71	ILE	N-CA-CB	-5.14	105.92	112.15
1	D	38	VAL	N-CA-CB	-5.14	102.74	111.23
4	4	34	ILE	CA-CB-CG1	5.14	119.14	110.40
4	9	360	GLN	CB-CG-CD	5.14	121.34	112.60
4	5	248	ILE	N-CA-CB	-5.14	103.47	110.56
4	V	40	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	P	652	LEU	CB-CA-C	-5.14	102.38	110.86
4	2	34	ILE	CA-CB-CG1	5.14	119.14	110.40
4	7	248	ILE	N-CA-CB	-5.14	103.47	110.56
4	1	248	ILE	N-CA-CB	-5.14	103.47	110.56
4	5	40	HIS	CB-CG-CD2	-5.14	124.52	131.20
4	8	360	GLN	CB-CG-CD	5.14	121.33	112.60
4	Z	356	TRP	CE2-CD2-CG	-5.14	101.04	107.20
4	8	50	LYS	CB-CG-CD	-5.13	99.49	111.30
4	W	50	LYS	CB-CG-CD	-5.13	99.49	111.30
4	5	233	SER	O-C-N	5.13	129.41	122.59
4	5	360	GLN	CB-CG-CD	5.13	121.32	112.60
4	8	34	ILE	CA-CB-CG1	5.13	119.12	110.40
4	X	71	ILE	N-CA-CB	-5.13	105.94	112.15
1	G	652	LEU	CB-CA-C	-5.13	102.39	110.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3	71	ILE	N-CA-CB	-5.13	105.94	112.15
4	3	233	SER	O-C-N	5.13	129.41	122.59
4	8	40	HIS	CB-CG-CD2	-5.13	124.53	131.20
4	X	248	ILE	N-CA-CB	-5.13	103.48	110.56
4	Y	360	GLN	CB-CG-CD	5.13	121.31	112.60
1	J	172	ASN	N-CA-CB	5.12	118.24	110.45
4	2	248	ILE	N-CA-CB	-5.12	103.49	110.56
4	8	248	ILE	N-CA-CB	-5.12	103.49	110.56
4	0	71	ILE	N-CA-CB	-5.12	105.95	112.15
4	5	71	ILE	N-CA-CB	-5.12	105.95	112.15
4	W	360	GLN	CB-CG-CD	5.12	121.31	112.60
4	X	233	SER	O-C-N	5.12	129.40	122.59
1	A	76	GLN	CA-C-O	5.12	125.22	119.18
1	J	425	SER	N-CA-CB	5.12	117.73	110.16
4	W	40	HIS	CB-CG-CD2	-5.12	124.55	131.20
1	A	221	GLN	O-C-N	5.12	127.41	122.09
4	3	360	GLN	CB-CG-CD	5.12	121.30	112.60
4	8	71	ILE	N-CA-CB	-5.12	105.96	112.15
4	Z	371	HIS	CB-CG-CD2	-5.12	124.55	131.20
4	X	217	CYS	CA-CB-SG	-5.11	102.64	114.40
1	J	278	GLN	CA-C-O	5.11	127.82	120.51
4	4	360	GLN	CB-CG-CD	5.11	121.29	112.60
1	J	322	VAL	O-C-N	5.11	125.60	120.59
4	4	248	ILE	N-CA-CB	-5.11	103.51	110.56
1	A	576	GLU	N-CA-CB	5.11	118.94	110.97
4	9	248	ILE	N-CA-CB	-5.11	103.51	110.56
4	1	217	CYS	CA-CB-SG	-5.11	102.65	114.40
4	X	227	MET	N-CA-C	-5.11	105.62	111.14
1	J	576	GLU	N-CA-CB	5.11	118.94	110.97
4	3	217	CYS	CA-CB-SG	-5.11	102.66	114.40
4	9	71	ILE	N-CA-CB	-5.11	105.97	112.15
1	D	76	GLN	CA-C-O	5.10	125.20	119.18
1	P	278	GLN	CA-C-O	5.10	127.81	120.51
4	V	248	ILE	N-CA-CB	-5.10	103.52	110.56
4	Z	71	ILE	N-CA-CB	-5.10	105.97	112.15
1	D	425	SER	N-CA-CB	5.10	117.71	110.16
4	2	40	HIS	CB-CG-CD2	-5.10	124.57	131.20
4	2	227	MET	N-CA-C	-5.10	105.63	111.14
4	4	227	MET	N-CA-C	-5.10	105.63	111.14
4	5	217	CYS	CA-CB-SG	-5.10	102.66	114.40
4	9	217	CYS	CA-CB-SG	-5.10	102.66	114.40
4	W	233	SER	O-C-N	5.10	129.38	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	W	248	ILE	N-CA-CB	-5.10	103.52	110.56
1	A	157	SER	O-C-N	5.10	127.60	122.09
2	K	127	ARG	NE-CZ-NH2	5.10	123.79	119.20
4	0	233	SER	O-C-N	5.10	129.37	122.59
4	7	71	ILE	N-CA-CB	-5.10	105.98	112.15
4	0	217	CYS	CA-CB-SG	-5.10	102.67	114.40
4	4	149	THR	CA-CB-OG1	-5.10	101.95	109.60
4	7	149	THR	CA-CB-OG1	-5.10	101.95	109.60
4	2	217	CYS	CA-CB-SG	-5.10	102.68	114.40
4	7	227	MET	N-CA-C	-5.10	105.63	111.14
4	9	233	SER	O-C-N	5.10	129.37	122.59
4	V	217	CYS	CA-CB-SG	-5.10	102.68	114.40
4	X	34	ILE	CA-CB-CG1	5.10	119.07	110.40
4	9	227	MET	N-CA-C	-5.10	105.64	111.14
4	Z	248	ILE	N-CA-CB	-5.10	103.53	110.56
1	G	165	PHE	CA-CB-CG	-5.09	108.70	113.80
1	G	332	MET	CB-CA-C	-5.09	102.19	110.85
4	8	266	PHE	CA-CB-CG	5.09	118.89	113.80
4	Y	71	ILE	N-CA-CB	-5.09	105.99	112.15
4	Y	217	CYS	CA-CB-SG	-5.09	102.68	114.40
1	D	595	TRP	O-C-N	5.09	127.39	122.09
1	J	652	LEU	CB-CA-C	-5.09	102.46	110.86
1	D	172	ASN	N-CA-CB	5.09	118.19	110.45
1	D	576	GLU	N-CA-CB	5.09	118.91	110.97
1	G	172	ASN	N-CA-CB	5.09	118.19	110.45
1	J	424	ASN	CA-CB-CG	5.09	117.69	112.60
4	8	217	CYS	CA-CB-SG	-5.09	102.69	114.40
4	8	227	MET	N-CA-C	-5.09	105.64	111.14
4	W	149	THR	CA-CB-OG1	-5.09	101.97	109.60
4	W	371	HIS	CB-CG-CD2	-5.09	124.58	131.20
4	Y	227	MET	N-CA-C	-5.09	105.64	111.14
1	P	172	ASN	N-CA-CB	5.09	118.18	110.45
4	Z	227	MET	N-CA-C	-5.09	105.64	111.14
4	3	149	THR	CA-CB-OG1	-5.09	101.97	109.60
1	G	332	MET	CG-SD-CE	-5.08	89.71	100.90
1	G	576	GLU	N-CA-CB	5.08	118.90	110.97
4	W	217	CYS	CA-CB-SG	-5.08	102.70	114.40
1	A	172	ASN	N-CA-CB	5.08	118.18	110.45
1	A	332	MET	CG-SD-CE	-5.08	89.71	100.90
4	4	217	CYS	CA-CB-SG	-5.08	102.71	114.40
4	7	217	CYS	CA-CB-SG	-5.08	102.71	114.40
4	Z	217	CYS	CA-CB-SG	-5.08	102.71	114.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8	149	THR	CA-CB-OG1	-5.08	101.98	109.60
1	J	332	MET	CG-SD-CE	-5.08	89.73	100.90
1	P	425	SER	N-CA-CB	5.08	117.68	110.16
4	0	266	PHE	CA-CB-CG	5.08	118.88	113.80
4	5	149	THR	CA-CB-OG1	-5.08	101.98	109.60
4	X	40	HIS	CB-CG-CD2	-5.08	124.60	131.20
1	A	694	GLN	CA-C-O	5.08	126.11	120.63
4	5	227	MET	N-CA-C	-5.08	105.66	111.14
1	D	332	MET	CG-SD-CE	-5.08	89.73	100.90
4	V	227	MET	N-CA-C	-5.08	105.66	111.14
4	V	233	SER	O-C-N	5.07	129.34	122.59
4	2	371	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	P	332	MET	CG-SD-CE	-5.07	89.75	100.90
4	X	149	THR	CA-CB-OG1	-5.07	101.99	109.60
1	A	652	LEU	CB-CA-C	-5.07	102.50	110.86
1	P	322	VAL	O-C-N	5.07	125.56	120.59
1	P	332	MET	CB-CA-C	-5.07	102.23	110.85
1	D	694	GLN	CA-C-O	5.07	126.10	120.63
4	1	227	MET	N-CA-C	-5.07	105.67	111.14
4	Y	149	THR	CA-CB-OG1	-5.07	102.00	109.60
4	0	371	HIS	CB-CG-CD2	-5.06	124.62	131.20
4	5	371	HIS	CB-CG-CD2	-5.06	124.62	131.20
4	W	227	MET	N-CA-C	-5.06	105.67	111.14
1	D	652	LEU	CB-CA-C	-5.06	102.51	110.86
4	1	149	THR	CA-CB-OG1	-5.06	102.01	109.60
4	V	371	HIS	CB-CG-CD2	-5.06	124.62	131.20
4	9	266	PHE	CA-CB-CG	5.06	118.86	113.80
1	P	157	SER	O-C-N	5.06	127.55	122.09
4	3	227	MET	N-CA-C	-5.06	105.68	111.14
4	7	233	SER	O-C-N	5.06	129.31	122.59
4	X	266	PHE	CA-CB-CG	5.06	118.86	113.80
4	Y	356	TRP	CG-CD2-CE3	5.06	138.96	133.90
4	0	149	THR	CA-CB-OG1	-5.06	102.02	109.60
1	G	76	GLN	CA-C-O	5.05	125.14	119.18
1	D	623	PHE	CB-CG-CD1	5.05	129.29	120.70
4	3	359	LYS	CB-CG-CD	5.05	122.92	111.30
4	V	359	LYS	CB-CG-CD	5.05	122.92	111.30
1	A	332	MET	CB-CA-C	-5.05	102.26	110.85
1	D	332	MET	CB-CA-C	-5.05	102.26	110.85
4	1	371	HIS	CB-CG-CD2	-5.05	124.63	131.20
4	7	371	HIS	CB-CG-CD2	-5.05	124.63	131.20
1	A	425	SER	N-CA-CB	5.05	117.63	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5	266	PHE	CA-CB-CG	5.05	118.85	113.80
4	9	149	THR	CA-CB-OG1	-5.05	102.03	109.60
4	9	371	HIS	CB-CG-CD2	-5.05	124.64	131.20
4	Y	371	HIS	CB-CG-CD2	-5.05	124.64	131.20
4	7	356	TRP	CG-CD2-CE3	5.05	138.95	133.90
1	A	165	PHE	CA-CB-CG	-5.04	108.75	113.80
1	P	424	ASN	CA-CB-CG	5.04	117.64	112.60
1	G	221	GLN	O-C-N	5.04	127.34	122.09
1	G	322	VAL	O-C-N	5.04	125.53	120.59
1	G	359	MET	O-C-N	5.04	127.27	122.07
4	V	71	ILE	N-CA-CB	-5.04	106.05	112.15
4	Z	359	LYS	CB-CG-CD	5.04	122.90	111.30
1	J	76	GLN	CA-C-O	5.04	125.13	119.18
4	V	149	THR	CA-CB-OG1	-5.04	102.04	109.60
4	X	88	HIS	CB-CG-CD2	-5.04	124.65	131.20
4	2	149	THR	CA-CB-OG1	-5.04	102.05	109.60
4	4	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
4	X	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	G	511	GLU	N-CA-CB	5.03	118.79	110.69
1	J	165	PHE	CA-CB-CG	-5.03	108.77	113.80
4	Y	359	LYS	CB-CG-CD	5.03	122.88	111.30
1	A	424	ASN	CA-CB-CG	5.03	117.63	112.60
4	X	359	LYS	CB-CG-CD	5.03	122.87	111.30
4	8	359	LYS	CB-CG-CD	5.03	122.87	111.30
1	G	513	ILE	N-CA-CB	-5.03	101.69	110.49
4	0	227	MET	N-CA-C	-5.03	105.71	111.14
4	5	359	LYS	CB-CG-CD	5.03	122.86	111.30
4	0	359	LYS	CB-CG-CD	5.03	122.86	111.30
4	9	359	LYS	CB-CG-CD	5.02	122.86	111.30
4	0	349	LEU	CA-C-O	5.02	126.72	121.19
4	7	359	LYS	CB-CG-CD	5.02	122.85	111.30
4	8	371	HIS	CB-CG-CD2	-5.02	124.67	131.20
4	4	359	LYS	CB-CG-CD	5.02	122.85	111.30
1	D	165	PHE	CA-CB-CG	-5.02	108.78	113.80
4	X	281	SER	N-CA-C	-5.02	105.70	111.07
4	1	88	HIS	CB-CG-CD2	-5.02	124.68	131.20
1	A	254	PHE	CA-CB-CG	-5.02	108.78	113.80
4	2	356	TRP	CG-CD2-CE3	5.02	138.92	133.90
1	J	332	MET	CB-CA-C	-5.01	102.33	110.85
4	1	266	PHE	CA-CB-CG	5.01	118.81	113.80
4	8	233	SER	O-C-N	5.01	129.26	122.59
4	W	359	LYS	CB-CG-CD	5.01	122.83	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	88	HIS	CB-CG-CD2	-5.01	124.68	131.20
1	A	110	TYR	N-CA-C	-5.01	106.85	113.12
1	G	762	HIS	N-CA-C	5.01	121.48	110.80
1	J	694	GLN	CA-C-O	5.01	126.04	120.63
4	3	371	HIS	CB-CG-CD2	-5.01	124.68	131.20
4	5	86	TRP	CE2-CD2-CG	-5.01	101.18	107.20
1	G	686	MET	N-CA-C	5.01	116.75	108.13
4	2	359	LYS	CB-CG-CD	5.01	122.83	111.30
1	A	513	ILE	N-CA-CB	-5.01	101.72	110.49
1	G	192	VAL	CA-CB-CG1	-5.01	101.88	110.40
4	3	266	PHE	CA-CB-CG	5.01	118.81	113.80
4	W	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
4	Z	149	THR	CA-CB-OG1	-5.01	102.08	109.60
1	A	829	TRP	N-CA-C	5.01	116.83	109.42
4	V	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	A	434	TYR	CB-CA-C	-5.01	102.80	110.81
3	F	64	THR	O-C-N	5.01	129.38	123.27
1	G	424	ASN	CA-CB-CG	5.01	117.61	112.60
4	7	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
4	8	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	A	621	LEU	N-CA-C	5.00	116.43	110.97
1	D	434	TYR	CB-CA-C	-5.00	102.80	110.81
4	0	43	VAL	N-CA-C	5.00	117.21	108.90
1	G	425	SER	N-CA-CB	5.00	117.56	110.16
1	G	694	GLN	CA-C-O	5.00	126.03	120.63
1	P	192	VAL	CA-CB-CG1	-5.00	101.90	110.40
1	P	359	MET	O-C-N	5.00	127.22	122.07
1	P	513	ILE	N-CA-CB	-5.00	101.73	110.49
4	0	88	HIS	CB-CG-CD2	-5.00	124.70	131.20
1	D	675	ILE	N-CA-C	5.00	116.55	108.85
4	1	233	SER	O-C-N	5.00	129.24	122.59
4	8	281	SER	N-CA-C	-5.00	105.72	111.07
4	9	88	HIS	CB-CG-CD2	-5.00	124.70	131.20

All (6) chirality outliers are listed below:

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

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Mol	Chain	Res	Type	Atom
1	P	648	THR	CB

All (66) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	0	62	ARG	Sidechain
4	1	62	ARG	Sidechain
4	2	62	ARG	Sidechain
4	3	62	ARG	Sidechain
4	4	62	ARG	Sidechain
4	5	62	ARG	Sidechain
4	7	62	ARG	Sidechain
4	8	62	ARG	Sidechain
4	9	62	ARG	Sidechain
1	A	623	PHE	Sidechain
1	A	637	LYS	Mainchain
1	A	649	VAL	Mainchain
1	A	98	HIS	Mainchain
2	B	150	TYR	Sidechain
2	B	155	TYR	Mainchain
2	B	22	THR	Mainchain
3	C	75	ALA	Mainchain
3	C	85	GLU	Mainchain
1	D	623	PHE	Sidechain
1	D	637	LYS	Mainchain
1	D	649	VAL	Mainchain
1	D	98	HIS	Mainchain
2	E	150	TYR	Sidechain
2	E	155	TYR	Mainchain
2	E	22	THR	Mainchain
3	F	75	ALA	Mainchain
3	F	85	GLU	Mainchain
1	G	623	PHE	Sidechain
1	G	637	LYS	Mainchain
1	G	649	VAL	Mainchain
1	G	98	HIS	Mainchain
2	H	150	TYR	Sidechain
2	H	155	TYR	Mainchain
2	H	22	THR	Mainchain
3	I	75	ALA	Mainchain
3	I	85	GLU	Mainchain
1	J	623	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	J	637	LYS	Mainchain
1	J	649	VAL	Mainchain
1	J	709	LYS	Peptide,Mainchain
1	J	98	HIS	Mainchain
2	K	150	TYR	Sidechain
2	K	155	TYR	Mainchain
2	K	22	THR	Mainchain
3	L	75	ALA	Mainchain
3	L	85	GLU	Mainchain
1	P	623	PHE	Sidechain
1	P	637	LYS	Mainchain
1	P	649	VAL	Mainchain
1	P	769	ALA	Mainchain
1	P	785	GLU	Peptide,Mainchain
1	P	806	MET	Peptide,Mainchain
1	P	98	HIS	Mainchain
2	Q	150	TYR	Sidechain
2	Q	155	TYR	Mainchain
2	Q	22	THR	Mainchain
3	R	75	ALA	Mainchain
3	R	85	GLU	Mainchain
4	V	62	ARG	Sidechain
4	W	62	ARG	Sidechain
4	X	62	ARG	Sidechain
4	Y	62	ARG	Sidechain
4	Z	62	ARG	Sidechain

5.2 Too-close contacts [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6797	0	6762	1539	0
1	D	6797	0	6763	1442	0
1	G	6797	0	6771	1596	0
1	J	6797	0	6762	1454	0
1	P	6797	0	6773	1556	0
2	B	1127	0	1085	241	0
2	E	1127	0	1086	270	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	H	1127	0	1088	297	0
2	K	1127	0	1088	272	0
2	Q	1127	0	1088	265	0
3	C	1123	0	1083	196	0
3	F	1123	0	1083	170	0
3	I	1123	0	1083	189	0
3	L	1123	0	1083	164	0
3	R	1123	0	1079	230	0
4	0	2906	0	2855	411	0
4	1	2906	0	2864	217	0
4	2	2906	0	2864	178	0
4	3	2906	0	2863	181	0
4	4	2906	0	2865	100	0
4	5	2906	0	2865	101	0
4	7	2906	0	2866	81	0
4	8	2906	0	2857	323	0
4	9	2906	0	2855	349	0
4	V	2906	0	2851	392	0
4	W	2906	0	2851	390	0
4	X	2906	0	2862	217	0
4	Y	2906	0	2863	173	0
4	Z	2906	0	2862	191	0
All	All	85919	0	84720	9873	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 58.

All (9873) 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:J:797:PHE:CE1	3:L:146:ILE:HG23	1.21	1.71
1:G:84:MLY:CH1	1:G:724:TYR:HE2	1.03	1.66
1:P:803:TYR:CD1	1:P:807:VAL:HG11	1.22	1.65
1:G:84:MLY:CG	1:G:723:ARG:HD2	1.17	1.64
1:D:798:LEU:HD11	3:F:126:LEU:CD1	1.26	1.63
1:G:757:GLN:CG	1:G:776:GLU:HG2	1.19	1.63
2:H:144:VAL:HG13	2:H:153:ILE:CD1	1.22	1.63
1:A:753:VAL:HG12	1:A:775:LEU:CG	1.24	1.63
2:E:144:VAL:HG13	2:E:153:ILE:CD1	1.22	1.63
4:X:291:LYS:HE3	4:Z:243:PRO:CB	1.17	1.63
2:K:144:VAL:HG13	2:K:153:ILE:CG1	1.17	1.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:HG23	4:3:202:THR:CB	1.26	1.62
1:P:797:PHE:CE1	3:R:146:ILE:HG23	1.25	1.62
1:G:757:GLN:HG3	1:G:776:GLU:CG	1.21	1.61
1:D:797:PHE:CE2	3:F:126:LEU:HD22	1.34	1.61
1:G:725:ARG:HE	1:G:733:PRO:CB	1.09	1.61
2:B:144:VAL:HG13	2:B:153:ILE:CD1	1.22	1.61
1:J:725:ARG:HE	1:J:733:PRO:CB	1.09	1.61
1:A:831:TRP:CZ3	2:B:50:THR:HG21	1.31	1.61
1:A:206:LYS:CD	1:A:217:THR:HG23	1.28	1.61
1:D:792:ALA:HB2	3:F:42:THR:CG2	1.29	1.60
2:Q:144:VAL:HG13	2:Q:153:ILE:CD1	1.22	1.60
1:P:538:GLU:CA	4:0:349:LEU:CD1	1.79	1.60
2:Q:144:VAL:HG13	2:Q:153:ILE:CG1	1.17	1.60
1:G:831:TRP:CH2	2:H:47:LEU:HD21	1.30	1.60
1:J:538:GLU:CA	4:W:349:LEU:CD1	1.79	1.59
1:P:797:PHE:CZ	3:R:146:ILE:HD12	1.33	1.59
1:G:206:LYS:CD	1:G:217:THR:HG23	1.28	1.59
2:E:144:VAL:HG13	2:E:153:ILE:CG1	1.17	1.59
1:J:206:LYS:CD	1:J:217:THR:HG23	1.28	1.59
1:D:538:GLU:CA	4:9:349:LEU:CD1	1.78	1.58
1:P:725:ARG:HE	1:P:733:PRO:CB	1.09	1.58
1:A:505:MLY:CB	1:A:762:HIS:HD2	1.01	1.58
1:J:818:TYR:CE1	2:K:127:ARG:NH2	1.70	1.58
4:1:287:ILE:CG2	4:3:202:THR:HB	1.23	1.58
2:B:144:VAL:HG13	2:B:153:ILE:CG1	1.17	1.58
1:D:834:LEU:HD11	2:E:54:MET:CG	1.22	1.58
1:G:538:GLU:CA	4:V:349:LEU:CD1	1.79	1.58
1:G:792:ALA:CB	3:I:42:THR:HG22	1.11	1.58
2:H:144:VAL:HG13	2:H:153:ILE:CG1	1.17	1.57
1:P:797:PHE:CD1	3:R:146:ILE:CG2	1.81	1.57
4:1:203:THR:H	4:Z:287:ILE:CG1	1.10	1.57
2:Q:117:LEU:HD12	2:Q:147:ASN:CG	1.29	1.57
1:D:725:ARG:HE	1:D:733:PRO:CB	1.09	1.57
1:D:736:GLN:HA	1:D:743:ALA:CB	1.35	1.57
1:J:505:MLY:HD2	1:J:762:HIS:CE1	1.35	1.57
1:J:84:MLY:HH11	1:J:720:PHE:CD1	1.40	1.57
2:K:144:VAL:HG13	2:K:153:ILE:CD1	1.22	1.57
1:P:797:PHE:CE1	3:R:146:ILE:HD12	1.09	1.57
1:A:505:MLY:HB3	1:A:762:HIS:CD2	1.38	1.57
1:G:736:GLN:HA	1:G:743:ALA:CB	1.35	1.57
1:D:798:LEU:CD1	3:F:126:LEU:HD11	1.20	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:530:MET:HG2	4:W:354:GLN:CB	1.36	1.56
4:1:202:THR:HB	4:Z:287:ILE:CG2	1.29	1.56
2:Q:111:SER:HB2	2:Q:148:VAL:C	1.23	1.56
1:D:206:LYS:CD	1:D:217:THR:HG23	1.28	1.56
1:A:834:LEU:CD2	2:B:54:MET:HE3	1.30	1.55
1:P:736:GLN:HA	1:P:743:ALA:CB	1.35	1.55
1:D:838:ILE:CD1	2:E:54:MET:HE1	1.36	1.55
1:J:797:PHE:CZ	3:L:146:ILE:CD1	1.83	1.55
1:J:818:TYR:CZ	2:K:127:ARG:NH2	1.71	1.55
2:K:111:SER:HB2	2:K:148:VAL:C	1.23	1.55
1:A:530:MET:HG2	4:8:354:GLN:CB	1.35	1.55
1:A:725:ARG:HE	1:A:733:PRO:CB	1.09	1.55
1:D:792:ALA:CB	3:F:42:THR:HG22	1.35	1.55
1:D:797:PHE:CD1	3:F:146:ILE:HG23	1.38	1.55
1:P:838:ILE:CD1	2:Q:54:MET:HE3	1.34	1.55
1:A:538:GLU:CA	4:8:349:LEU:CD1	1.78	1.55
1:G:530:MET:HG2	4:V:354:GLN:CB	1.35	1.54
1:D:530:MET:HG2	4:9:354:GLN:CB	1.35	1.54
1:P:795:ARG:CB	3:R:35:ARG:NH1	1.69	1.54
1:P:548:THR:CG2	4:2:49:GLN:N	1.70	1.54
1:P:804:ARG:HG2	1:P:808:GLU:CD	1.13	1.54
1:D:641:LYS:HG3	1:D:647:GLN:CG	1.36	1.53
1:D:834:LEU:CD1	2:E:54:MET:HG3	1.14	1.53
1:J:641:LYS:HG3	1:J:647:GLN:CG	1.37	1.53
1:P:797:PHE:CD1	3:R:146:ILE:HG23	1.06	1.53
4:0:243:PRO:C	4:Y:291:LYS:HE2	1.21	1.53
2:B:111:SER:HB2	2:B:148:VAL:C	1.23	1.53
1:P:206:LYS:CD	1:P:217:THR:HG23	1.28	1.53
1:A:799:MET:SD	3:C:32:ASP:HB3	1.47	1.53
1:P:530:MET:HG2	4:0:354:GLN:CB	1.36	1.53
4:0:205:GLU:CG	4:Y:287:ILE:HB	1.16	1.53
4:1:287:ILE:CG1	4:3:203:THR:N	1.67	1.53
1:J:736:GLN:HA	1:J:743:ALA:CB	1.35	1.52
1:A:834:LEU:HD21	2:B:54:MET:CE	1.08	1.52
1:A:641:LYS:HG3	1:A:647:GLN:CG	1.37	1.52
1:A:736:GLN:HA	1:A:743:ALA:CB	1.35	1.52
1:P:149:GLN:CG	1:P:716:LEU:HD11	1.38	1.52
1:P:641:LYS:HG3	1:P:647:GLN:CG	1.37	1.52
4:2:290:ARG:NH2	4:4:202:THR:CG2	1.70	1.52
1:G:206:LYS:HD3	1:G:217:THR:CG2	1.40	1.51
1:G:797:PHE:CE2	3:I:126:LEU:HD22	1.45	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:819:ASN:ND2	2:H:92:ASP:HB2	1.19	1.51
1:G:641:LYS:HG3	1:G:647:GLN:CG	1.37	1.51
2:B:117:LEU:HD12	2:B:147:ASN:CG	1.30	1.51
1:J:838:ILE:HD11	2:K:54:MET:CE	1.35	1.51
2:E:111:SER:HB2	2:E:148:VAL:C	1.23	1.51
2:H:117:LEU:HD12	2:H:147:ASN:CG	1.30	1.51
1:J:538:GLU:C	4:W:349:LEU:CD1	1.84	1.51
2:K:117:LEU:HD12	2:K:147:ASN:CG	1.29	1.51
1:A:795:ARG:NH2	3:C:116:GLU:CD	1.70	1.50
2:K:117:LEU:HD12	2:K:147:ASN:CB	1.41	1.50
1:P:149:GLN:HG2	1:P:716:LEU:CD1	1.39	1.50
1:A:795:ARG:HB3	3:C:35:ARG:CZ	1.35	1.50
1:D:538:GLU:C	4:9:349:LEU:CD1	1.84	1.50
1:G:538:GLU:C	4:V:349:LEU:CD1	1.84	1.50
1:G:792:ALA:HB2	3:I:42:THR:CG2	1.06	1.50
1:A:641:LYS:CD	1:A:647:GLN:CD	1.85	1.50
2:E:117:LEU:HD12	2:E:147:ASN:CB	1.41	1.50
1:P:538:GLU:C	4:O:349:LEU:CD1	1.84	1.50
2:E:117:LEU:HD12	2:E:147:ASN:CG	1.29	1.50
1:G:641:LYS:CD	1:G:647:GLN:CD	1.85	1.50
1:J:641:LYS:CD	1:J:647:GLN:CD	1.85	1.50
1:A:753:VAL:CG1	1:A:775:LEU:HG	1.38	1.49
2:B:117:LEU:HD12	2:B:147:ASN:CB	1.41	1.49
2:Q:117:LEU:HD12	2:Q:147:ASN:CB	1.41	1.49
1:A:819:ASN:HD21	2:B:91:ALA:C	0.90	1.49
1:D:206:LYS:HD3	1:D:217:THR:CG2	1.40	1.49
2:H:111:SER:HB2	2:H:148:VAL:C	1.23	1.49
1:J:721:LYS:HG3	1:J:736:GLN:CG	1.15	1.49
1:A:819:ASN:ND2	2:B:91:ALA:CA	1.75	1.49
1:P:721:LYS:HG3	1:P:736:GLN:CG	1.15	1.49
4:X:324:THR:HG22	4:Z:247:VAL:CG2	1.42	1.49
1:G:721:LYS:HG3	1:G:736:GLN:CG	1.15	1.49
1:P:206:LYS:HD3	1:P:217:THR:CG2	1.40	1.49
4:1:287:ILE:HG12	4:3:202:THR:C	1.29	1.49
1:J:206:LYS:HD3	1:J:217:THR:CG2	1.40	1.48
1:A:538:GLU:C	4:8:349:LEU:CD1	1.84	1.48
1:A:813:ILE:CG2	2:B:127:ARG:HD2	1.40	1.48
1:J:798:LEU:HD11	3:L:126:LEU:CD1	1.39	1.48
1:P:641:LYS:CD	1:P:647:GLN:CD	1.84	1.48
1:P:783:LEU:HG	1:P:786:ILE:CD1	1.41	1.48
1:P:548:THR:CG2	4:2:49:GLN:HB2	1.41	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:LYS:HD3	1:A:217:THR:CG2	1.40	1.48
1:D:799:MET:SD	3:F:32:ASP:HB3	1.52	1.47
1:A:641:LYS:CG	1:A:647:GLN:NE2	1.76	1.47
1:G:641:LYS:CG	1:G:647:GLN:NE2	1.76	1.46
1:P:800:ARG:NH2	3:R:40:ASN:ND2	1.60	1.46
2:H:117:LEU:HD12	2:H:147:ASN:CB	1.42	1.46
4:W:324:THR:CG2	4:Y:247:VAL:H	1.24	1.46
1:D:641:LYS:CD	1:D:647:GLN:CD	1.85	1.46
4:O:112:PRO:HG3	4:1:195:GLU:C	1.17	1.46
1:J:84:MLY:CH2	1:J:720:PHE:HA	1.39	1.46
4:O:287:ILE:CG2	4:2:203:THR:HG22	1.42	1.46
4:1:202:THR:CB	4:Z:287:ILE:HG23	1.45	1.46
1:A:797:PHE:CE1	3:C:146:ILE:HA	1.49	1.45
1:J:641:LYS:CG	1:J:647:GLN:NE2	1.77	1.45
1:J:797:PHE:HZ	3:L:146:ILE:CD1	1.19	1.45
1:P:831:TRP:CH2	2:Q:47:LEU:CD2	1.99	1.45
1:J:797:PHE:CZ	3:L:146:ILE:HD12	0.94	1.45
4:1:203:THR:N	4:Z:287:ILE:HG12	1.22	1.45
1:A:831:TRP:CH2	2:B:50:THR:HB	1.50	1.45
1:P:838:ILE:HD11	2:Q:54:MET:CE	1.01	1.45
1:P:797:PHE:CE1	3:R:146:ILE:CD1	1.95	1.44
1:D:818:TYR:CB	2:E:90:GLY:HA3	1.45	1.44
1:A:831:TRP:CZ3	2:B:50:THR:CG2	1.97	1.44
1:D:834:LEU:CG	2:E:54:MET:HG3	1.44	1.44
1:D:838:ILE:HD12	2:E:54:MET:SD	1.56	1.44
1:P:786:ILE:CG2	1:P:787:ILE:HB	1.47	1.44
1:D:799:MET:SD	3:F:32:ASP:CB	2.05	1.44
1:D:641:LYS:CG	1:D:647:GLN:NE2	1.77	1.43
1:D:799:MET:CE	3:F:32:ASP:HB3	1.48	1.43
1:G:831:TRP:CH2	2:H:47:LEU:CD2	1.97	1.43
1:P:508:ILE:HD11	1:P:759:ALA:CB	1.47	1.43
4:O:112:PRO:HB3	4:1:196:ARG:CA	1.36	1.43
4:3:288:ASP:CG	4:5:203:THR:CG2	1.90	1.43
1:G:567:LYS:NZ	4:X:92:ASN:HD22	1.17	1.43
1:G:819:ASN:CG	2:H:92:ASP:HB2	1.31	1.43
1:G:556:ASP:CG	4:X:47:MET:CE	1.76	1.43
1:D:769:ALA:O	1:D:774:LEU:CD1	1.66	1.43
1:D:822:SER:OG	2:E:88:LEU:CD2	1.63	1.43
1:J:710:GLY:CA	1:J:772:LEU:HD22	1.46	1.43
1:D:721:LYS:HG3	1:D:736:GLN:CG	1.15	1.42
1:P:725:ARG:HH21	3:R:93:VAL:CG1	1.31	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:286:ASP:OD1	4:Z:202:THR:CB	1.64	1.42
1:P:149:GLN:HB3	1:P:716:LEU:CD2	1.46	1.42
1:A:149:GLN:CG	1:A:719:ASP:OD1	1.66	1.42
1:G:84:MLY:NZ	1:G:724:TYR:HE2	0.94	1.42
1:P:84:MLY:HG2	1:P:723:ARG:CD	1.44	1.42
1:G:755:HIS:H	1:G:779:ARG:CZ	1.32	1.42
1:P:725:ARG:NH2	3:R:93:VAL:CG1	1.83	1.42
1:P:641:LYS:CG	1:P:647:GLN:NE2	1.77	1.42
1:A:819:ASN:CG	2:B:91:ALA:HA	1.42	1.41
1:J:733:PRO:O	1:J:737:PHE:CD1	1.73	1.41
1:D:641:LYS:CG	1:D:647:GLN:CD	1.93	1.41
1:A:641:LYS:HG3	1:A:647:GLN:CD	1.45	1.41
1:G:84:MLY:HB3	1:G:723:ARG:NE	1.29	1.41
1:A:149:GLN:NE2	1:A:718:ALA:HB3	1.32	1.41
1:A:530:MET:CG	4:8:354:GLN:HB2	1.50	1.41
1:A:797:PHE:CZ	3:C:146:ILE:HD13	1.56	1.41
1:D:795:ARG:HB3	3:F:35:ARG:NH1	1.27	1.41
1:D:818:TYR:HB2	2:E:90:GLY:CA	1.49	1.41
2:H:144:VAL:CG1	2:H:153:ILE:CD1	1.99	1.41
1:J:797:PHE:CD1	3:L:146:ILE:HG23	1.54	1.41
1:P:202:SER:HA	1:P:207:LYS:CE	1.51	1.41
1:P:505:MLY:HD2	1:P:762:HIS:NE2	1.31	1.41
1:D:530:MET:CG	4:9:354:GLN:HB2	1.50	1.40
1:J:641:LYS:CG	1:J:647:GLN:CD	1.93	1.40
1:P:733:PRO:O	1:P:737:PHE:CD1	1.73	1.40
1:P:736:GLN:N	1:P:743:ALA:HB1	1.35	1.40
1:A:733:PRO:O	1:A:737:PHE:CD1	1.73	1.40
2:E:144:VAL:CG1	2:E:153:ILE:CD1	1.99	1.40
1:J:202:SER:HA	1:J:207:LYS:CE	1.51	1.40
1:J:798:LEU:CD1	3:L:126:LEU:HD11	1.52	1.40
1:G:791:GLN:NE2	3:I:115:GLY:HA3	1.17	1.40
1:J:218:LEU:CB	1:J:221:GLN:HG3	1.52	1.40
1:P:218:LEU:CB	1:P:221:GLN:HG3	1.52	1.40
4:1:287:ILE:HG12	4:3:203:THR:N	1.25	1.40
4:X:291:LYS:CE	4:Z:243:PRO:HB2	1.52	1.40
1:D:218:LEU:CB	1:D:221:GLN:HG3	1.52	1.40
1:D:733:PRO:O	1:D:737:PHE:CD1	1.73	1.40
1:G:733:PRO:O	1:G:737:PHE:CD1	1.73	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:G:818:TYR:CZ	2:H:127:ARG:NH2	1.84	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:144:VAL:CG1	2:K:153:ILE:CD1	1.99	1.40
1:A:721:LYS:HG3	1:A:736:GLN:CG	1.15	1.39
1:D:713:SER:H	1:D:771:LEU:CD2	1.33	1.39
1:D:838:ILE:CD1	2:E:54:MET:CE	1.98	1.39
1:J:736:GLN:CA	1:J:743:ALA:CB	2.00	1.39
1:A:149:GLN:HB3	1:A:719:ASP:N	1.38	1.39
1:A:537:GLU:O	4:8:349:LEU:CD1	1.70	1.39
1:P:537:GLU:O	4:0:349:LEU:CD1	1.70	1.39
1:P:797:PHE:CE1	3:R:146:ILE:CG2	2.00	1.39
1:P:838:ILE:CD1	2:Q:54:MET:CE	1.93	1.39
1:A:736:GLN:CA	1:A:743:ALA:CB	2.00	1.39
1:G:202:SER:HA	1:G:207:LYS:CE	1.51	1.39
1:G:641:LYS:CG	1:G:647:GLN:CD	1.93	1.39
1:G:795:ARG:HG2	3:I:118:MET:CE	1.52	1.39
1:P:641:LYS:HG3	1:P:647:GLN:CD	1.45	1.39
2:Q:144:VAL:CG1	2:Q:153:ILE:CD1	1.99	1.39
4:1:287:ILE:HG12	4:3:202:THR:CA	1.50	1.39
1:D:537:GLU:O	4:9:349:LEU:CD1	1.70	1.39
1:G:736:GLN:CA	1:G:743:ALA:CB	2.00	1.39
1:G:795:ARG:NE	3:I:116:GLU:HB3	1.31	1.39
1:P:530:MET:CG	4:0:354:GLN:HB2	1.51	1.39
4:2:290:ARG:CZ	4:4:202:THR:HG21	1.52	1.39
1:J:736:GLN:CA	1:J:743:ALA:HB1	1.53	1.39
1:P:836:PHE:CE1	2:Q:159:HIS:HA	1.57	1.39
1:D:202:SER:HA	1:D:207:LYS:CE	1.51	1.38
1:D:736:GLN:N	1:D:743:ALA:HB1	1.35	1.38
1:J:530:MET:CG	4:W:354:GLN:HB2	1.51	1.38
1:J:537:GLU:O	4:W:349:LEU:CD1	1.70	1.38
1:A:641:LYS:CG	1:A:647:GLN:CD	1.93	1.38
2:B:144:VAL:CG1	2:B:153:ILE:HG12	1.54	1.38
1:D:736:GLN:CA	1:D:743:ALA:CB	2.00	1.38
1:J:710:GLY:HA2	1:J:772:LEU:CD2	1.53	1.38
1:P:736:GLN:CA	1:P:743:ALA:CB	2.00	1.38
1:P:641:LYS:CG	1:P:647:GLN:CD	1.93	1.38
1:P:821:ARG:NH2	2:Q:127:ARG:HG2	1.38	1.38
1:A:93:MET:HE2	1:A:715:VAL:CA	1.51	1.38
1:G:736:GLN:CA	1:G:743:ALA:HB1	1.53	1.38
1:G:819:ASN:CA	2:H:90:GLY:O	1.70	1.38
1:J:641:LYS:HG3	1:J:647:GLN:CD	1.46	1.38
1:P:149:GLN:CB	1:P:716:LEU:HD21	1.52	1.38
1:P:819:ASN:CG	2:Q:92:ASP:HB2	1.35	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:LEU:CB	1:A:221:GLN:HG3	1.52	1.37
1:G:534:SER:O	4:V:351:THR:CG2	1.64	1.38
2:E:144:VAL:CG1	2:E:153:ILE:HG12	1.54	1.37
2:B:117:LEU:HB2	2:B:147:ASN:ND2	1.39	1.37
1:D:721:LYS:CG	1:D:736:GLN:CD	1.98	1.37
1:G:218:LEU:CB	1:G:221:GLN:HG3	1.51	1.37
1:J:821:ARG:NH2	2:K:127:ARG:HG2	1.35	1.37
1:A:721:LYS:CG	1:A:736:GLN:CD	1.98	1.37
2:B:144:VAL:CG1	2:B:153:ILE:CG1	2.03	1.37
1:D:642:LYS:HG3	4:9:23:GLY:N	1.40	1.37
1:P:819:ASN:ND2	2:Q:92:ASP:CB	1.87	1.37
4:0:205:GLU:HG3	4:Y:287:ILE:CB	1.33	1.37
4:0:287:ILE:HG21	4:2:203:THR:CG2	1.54	1.37
1:A:819:ASN:ND2	2:B:91:ALA:C	1.73	1.37
1:G:736:GLN:N	1:G:743:ALA:HB1	1.34	1.37
1:G:795:ARG:HE	3:I:116:GLU:CB	1.37	1.37
1:J:817:GLN:HG2	2:K:127:ARG:CB	1.51	1.37
2:K:144:VAL:CG1	2:K:153:ILE:HG12	1.54	1.37
1:G:537:GLU:O	4:V:349:LEU:CD1	1.71	1.36
1:J:721:LYS:CG	1:J:736:GLN:CD	1.98	1.36
2:K:117:LEU:HB2	2:K:147:ASN:ND2	1.39	1.36
4:0:167:GLU:CD	4:2:42:GLY:HA3	1.50	1.36
1:A:649:VAL:O	1:A:649:VAL:CG1	1.74	1.36
2:E:144:VAL:CG1	2:E:153:ILE:CG1	2.03	1.36
1:G:754:ASP:CB	1:G:776:GLU:CD	1.97	1.36
1:A:736:GLN:N	1:A:743:ALA:HB1	1.34	1.36
1:A:799:MET:SD	3:C:32:ASP:CB	2.11	1.36
1:G:530:MET:CG	4:V:354:GLN:HB2	1.51	1.36
1:J:642:LYS:HG3	4:W:23:GLY:N	1.40	1.36
1:J:736:GLN:N	1:J:743:ALA:HB1	1.35	1.36
2:K:144:VAL:CG1	2:K:153:ILE:CG1	2.03	1.36
1:D:736:GLN:CA	1:D:743:ALA:HB1	1.53	1.36
1:G:792:ALA:HB2	3:I:42:THR:CB	1.53	1.36
1:J:84:MLY:HH11	1:J:720:PHE:CE1	1.58	1.36
2:Q:144:VAL:CG1	2:Q:153:ILE:HG12	1.54	1.36
1:A:831:TRP:HH2	2:B:50:THR:CB	1.35	1.36
1:G:505:MLY:HH23	1:G:762:HIS:NE2	1.07	1.36
1:G:642:LYS:HG3	4:V:23:GLY:N	1.39	1.36
1:G:753:VAL:HA	1:G:780:ASP:OD1	1.22	1.36
2:H:144:VAL:CG1	2:H:153:ILE:CG1	2.03	1.36
1:A:795:ARG:HB3	3:C:35:ARG:NH1	1.34	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:831:TRP:CZ2	2:E:47:LEU:CD2	2.09	1.35
1:G:538:GLU:CA	4:V:349:LEU:HD12	0.88	1.35
1:G:649:VAL:O	1:G:649:VAL:CG1	1.74	1.35
1:P:642:LYS:HG3	4:O:23:GLY:N	1.40	1.35
1:G:721:LYS:CG	1:G:736:GLN:CD	1.98	1.35
2:H:117:LEU:HB2	2:H:147:ASN:ND2	1.39	1.35
2:H:144:VAL:CG1	2:H:153:ILE:HG12	1.54	1.35
1:A:530:MET:HA	4:8:354:GLN:CG	1.56	1.35
1:A:534:SER:O	4:8:351:THR:CG2	1.64	1.35
1:A:795:ARG:CB	3:C:35:ARG:NH1	1.88	1.35
1:J:838:ILE:CD1	2:K:54:MET:HE3	1.56	1.35
2:K:117:LEU:CD1	2:K:147:ASN:OD1	1.74	1.35
1:P:629:GLU:HA	1:P:643:GLY:O	1.17	1.35
1:P:736:GLN:CA	1:P:743:ALA:HB1	1.53	1.35
1:A:85:TYR:OH	1:A:772:LEU:CD2	1.73	1.34
1:G:553:MLY:CH1	4:X:45:VAL:HG11	1.54	1.34
1:J:538:GLU:CA	4:W:349:LEU:HD12	0.88	1.34
1:D:534:SER:O	4:9:351:THR:CG2	1.64	1.34
1:G:641:LYS:HG3	1:G:647:GLN:CD	1.45	1.34
1:P:721:LYS:CG	1:P:736:GLN:CD	1.98	1.34
1:P:725:ARG:NH2	3:R:93:VAL:HG11	1.41	1.34
2:Q:117:LEU:HB2	2:Q:147:ASN:ND2	1.39	1.34
4:O:243:PRO:C	4:Y:291:LYS:CE	1.78	1.34
4:3:288:ASP:OD2	4:5:203:THR:CG2	1.72	1.34
1:A:642:LYS:HG3	4:8:23:GLY:N	1.40	1.34
1:A:735:GLY:C	1:A:743:ALA:CB	2.01	1.34
2:H:114:LYS:CA	2:H:146:GLY:O	1.76	1.34
1:P:537:GLU:C	4:O:349:LEU:HD13	1.52	1.34
1:P:735:GLY:C	1:P:743:ALA:CB	2.01	1.34
1:P:804:ARG:HG2	1:P:808:GLU:OE2	1.19	1.34
1:A:499:GLU:OE1	1:A:766:PHE:CZ	1.79	1.34
1:J:629:GLU:HA	1:J:643:GLY:O	1.17	1.34
1:J:819:ASN:ND2	2:K:92:ASP:HB2	1.43	1.34
1:P:649:VAL:CG1	1:P:649:VAL:O	1.73	1.34
1:A:538:GLU:CA	4:8:349:LEU:HD12	0.87	1.34
1:D:649:VAL:O	1:D:649:VAL:CG1	1.73	1.34
1:P:538:GLU:CA	4:O:349:LEU:HD12	0.88	1.34
1:A:831:TRP:CH2	2:B:50:THR:CB	2.09	1.33
1:D:735:GLY:C	1:D:743:ALA:CB	2.01	1.33
2:B:114:LYS:CA	2:B:146:GLY:O	1.76	1.33
1:D:538:GLU:CA	4:9:349:LEU:HD12	0.87	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:735:GLY:C	1:G:743:ALA:CB	2.01	1.33
1:J:537:GLU:C	4:W:349:LEU:HD13	1.52	1.33
1:A:819:ASN:HD21	2:B:91:ALA:CA	1.34	1.33
2:B:117:LEU:CD1	2:B:147:ASN:OD1	1.74	1.33
1:D:629:GLU:HA	1:D:643:GLY:O	1.17	1.33
1:D:641:LYS:HG3	1:D:647:GLN:CD	1.45	1.33
1:D:795:ARG:CB	3:F:35:ARG:NH1	1.89	1.33
1:G:537:GLU:C	4:V:349:LEU:HD13	1.53	1.33
1:J:721:LYS:HG3	1:J:736:GLN:CD	1.54	1.33
2:Q:117:LEU:CD1	2:Q:147:ASN:OD1	1.74	1.33
4:1:287:ILE:CG2	4:3:202:THR:CB	1.87	1.33
1:D:635:GLY:CA	4:9:334:GLU:HG2	1.59	1.33
2:E:117:LEU:CD1	2:E:147:ASN:OD1	1.74	1.33
1:J:530:MET:HA	4:W:354:GLN:CG	1.56	1.33
1:J:649:VAL:O	1:J:649:VAL:CG1	1.73	1.33
1:P:530:MET:HA	4:0:354:GLN:CG	1.56	1.33
1:P:801:VAL:HG21	3:R:126:LEU:CD2	1.56	1.33
4:1:203:THR:H	4:Z:287:ILE:CB	1.42	1.33
1:A:149:GLN:OE1	1:A:716:LEU:CD2	1.73	1.33
1:A:792:ALA:HB2	3:C:42:THR:CG2	1.59	1.33
1:D:530:MET:HA	4:9:354:GLN:CG	1.56	1.33
1:G:530:MET:HA	4:V:354:GLN:CG	1.57	1.33
2:K:114:LYS:CA	2:K:146:GLY:O	1.76	1.33
1:P:735:GLY:O	1:P:743:ALA:HB2	1.29	1.33
2:Q:114:LYS:CA	2:Q:146:GLY:O	1.76	1.33
4:3:288:ASP:CG	4:5:203:THR:HG23	1.47	1.33
1:A:736:GLN:CA	1:A:743:ALA:HB1	1.53	1.32
1:D:721:LYS:HG2	1:D:736:GLN:OE1	1.29	1.32
1:J:534:SER:O	4:W:351:THR:CG2	1.64	1.32
1:J:635:GLY:CA	4:W:334:GLU:HG2	1.59	1.32
1:J:836:PHE:CE1	2:K:159:HIS:HA	1.62	1.32
1:G:84:MLY:CD	1:G:723:ARG:HD2	1.59	1.32
1:G:797:PHE:CD1	3:I:146:ILE:HG23	1.62	1.32
1:J:735:GLY:C	1:J:743:ALA:CB	2.01	1.32
1:A:537:GLU:C	4:8:349:LEU:HD13	1.52	1.32
1:A:791:GLN:NE2	3:C:116:GLU:H	1.26	1.32
1:G:754:ASP:CB	1:G:776:GLU:OE2	1.74	1.32
1:P:635:GLY:CA	4:0:334:GLU:HG2	1.59	1.32
1:A:629:GLU:HA	1:A:643:GLY:O	1.17	1.32
1:A:721:LYS:HG3	1:A:736:GLN:CD	1.54	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:H:117:LEU:CD1	2:H:147:ASN:OD1	1.74	1.32
1:J:94:MET:O	1:J:713:SER:CB	1.74	1.32
1:J:797:PHE:CE1	3:L:146:ILE:CG2	2.11	1.32
2:E:114:LYS:CA	2:E:146:GLY:O	1.76	1.32
1:J:725:ARG:NE	1:J:733:PRO:HB3	1.00	1.32
1:D:797:PHE:HE2	3:F:126:LEU:CD2	1.41	1.31
2:E:117:LEU:HB2	2:E:147:ASN:ND2	1.40	1.31
1:G:635:GLY:CA	4:V:334:GLU:HG2	1.59	1.31
1:G:795:ARG:NH2	3:I:116:GLU:HG2	1.44	1.31
1:P:534:SER:O	4:O:351:THR:CG2	1.64	1.31
4:1:287:ILE:CB	4:3:202:THR:HB	1.60	1.31
1:G:721:LYS:HG3	1:G:736:GLN:CD	1.53	1.31
1:P:786:ILE:O	1:P:787:ILE:CG2	1.75	1.31
1:A:538:GLU:O	4:8:349:LEU:CD1	1.78	1.31
2:K:121:LEU:O	2:K:128:PHE:CB	1.78	1.31
1:P:725:ARG:NE	1:P:733:PRO:HB3	1.00	1.31
1:A:635:GLY:CA	4:8:334:GLU:HG2	1.59	1.31
1:D:725:ARG:NE	1:D:733:PRO:HB3	1.00	1.31
1:G:84:MLY:CG	1:G:723:ARG:CD	2.06	1.31
1:P:721:LYS:HG2	1:P:736:GLN:OE1	1.29	1.31
1:A:501:GLU:HG2	1:A:762:HIS:ND1	1.41	1.31
1:D:537:GLU:C	4:9:349:LEU:HD13	1.52	1.31
1:G:821:ARG:NH2	2:H:127:ARG:HG2	1.44	1.31
4:O:167:GLU:OE1	4:2:42:GLY:CA	1.79	1.31
4:W:324:THR:HG21	4:Y:247:VAL:N	0.98	1.31
1:D:814:PHE:HA	2:E:127:ARG:NH1	1.41	1.30
1:G:503:TYR:OH	1:G:711:PHE:HD2	1.02	1.30
1:G:538:GLU:O	4:V:349:LEU:CD1	1.78	1.30
1:P:538:GLU:O	4:O:349:LEU:CD1	1.78	1.30
1:D:599:ASN:HA	1:D:649:VAL:CB	1.60	1.30
1:D:795:ARG:HB3	3:F:35:ARG:CZ	1.60	1.30
1:G:725:ARG:NE	1:G:733:PRO:HB3	0.99	1.30
4:O:167:GLU:OE1	4:2:42:GLY:HA3	1.21	1.30
4:X:286:ASP:CG	4:Z:202:THR:HB	1.32	1.30
2:B:121:LEU:O	2:B:128:PHE:CB	1.79	1.30
2:E:121:LEU:O	2:E:128:PHE:CB	1.79	1.30
1:G:97:LEU:CD2	1:G:712:PRO:HB3	1.59	1.30
1:J:599:ASN:HA	1:J:649:VAL:CB	1.60	1.30
1:P:505:MLY:HD2	1:P:762:HIS:CD2	1.67	1.30
1:A:725:ARG:NE	1:A:733:PRO:HB3	0.99	1.30
1:A:800:ARG:HH22	3:C:40:ASN:ND2	1.29	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:117:LEU:CD1	2:B:147:ASN:CG	2.05	1.30
1:D:215:GLN:N	1:D:340:ILE:HG12	1.20	1.30
2:K:117:LEU:CD1	2:K:147:ASN:CG	2.04	1.30
1:P:548:THR:CG2	4:2:49:GLN:CB	2.09	1.30
1:P:721:LYS:CG	1:P:736:GLN:CG	1.97	1.30
4:1:202:THR:C	4:Z:287:ILE:HG12	1.56	1.30
1:A:813:ILE:HG22	2:B:127:ARG:CD	1.62	1.29
1:J:831:TRP:CH2	2:K:47:LEU:CD2	2.15	1.29
1:P:804:ARG:CG	1:P:808:GLU:CD	2.05	1.29
1:P:817:GLN:CD	2:Q:127:ARG:HD2	1.55	1.29
1:A:149:GLN:NE2	1:A:718:ALA:CB	1.95	1.29
1:A:599:ASN:HA	1:A:649:VAL:CB	1.60	1.29
1:A:768:MLY:CB	1:A:771:LEU:HB2	1.62	1.29
1:G:757:GLN:HG2	1:G:776:GLU:OE2	1.19	1.29
1:J:819:ASN:CG	2:K:92:ASP:HB2	1.56	1.29
1:J:831:TRP:CH2	2:K:47:LEU:HD21	1.68	1.29
1:P:215:GLN:N	1:P:340:ILE:HG12	1.19	1.29
1:P:599:ASN:HA	1:P:649:VAL:CB	1.60	1.29
2:Q:121:LEU:O	2:Q:128:PHE:CB	1.79	1.29
1:D:834:LEU:CD1	2:E:54:MET:CG	1.86	1.29
1:G:599:ASN:HA	1:G:649:VAL:CB	1.60	1.29
1:J:215:GLN:N	1:J:340:ILE:HG12	1.19	1.29
1:P:795:ARG:HB3	3:R:35:ARG:NH1	0.99	1.29
2:Q:144:VAL:CG1	2:Q:153:ILE:CG1	2.03	1.29
4:1:203:THR:N	4:Z:287:ILE:CG1	1.82	1.29
1:D:831:TRP:CZ3	2:E:34:ILE:HG23	1.65	1.29
1:G:795:ARG:CG	3:I:118:MET:HE1	1.62	1.29
2:H:117:LEU:CD1	2:H:147:ASN:CG	2.05	1.29
4:W:325:MET:SD	4:Y:244:ASP:HB2	1.72	1.29
1:D:791:GLN:OE1	3:F:116:GLU:HG3	1.29	1.29
2:E:117:LEU:CD1	2:E:147:ASN:CG	2.05	1.29
1:G:838:ILE:HD11	2:H:54:MET:CE	1.62	1.29
1:J:506:GLU:OE2	1:J:761:GLY:HA2	1.22	1.29
1:P:548:THR:HG21	4:2:49:GLN:N	0.97	1.29
4:X:291:LYS:CE	4:Z:243:PRO:CB	2.06	1.29
1:G:721:LYS:HG2	1:G:736:GLN:OE1	1.29	1.28
1:G:752:ASP:O	1:G:780:ASP:HA	1.27	1.28
1:J:94:MET:C	1:J:713:SER:HB3	1.58	1.28
1:J:505:MLY:CD	1:J:762:HIS:CE1	2.16	1.28
1:J:721:LYS:HG2	1:J:736:GLN:OE1	1.29	1.28
4:0:288:ASP:CG	4:2:63:GLY:N	1.91	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:735:GLY:O	1:A:743:ALA:HB2	1.29	1.28
1:A:795:ARG:CZ	3:C:116:GLU:OE2	1.81	1.28
1:G:552:ASN:O	4:X:47:MET:SD	1.91	1.28
1:P:803:TYR:O	1:P:807:VAL:CB	1.82	1.28
4:O:112:PRO:CG	4:I:195:GLU:C	2.00	1.28
1:A:797:PHE:CZ	3:C:146:ILE:CD1	2.16	1.28
1:G:791:GLN:HE22	3:I:115:GLY:CA	1.46	1.28
1:G:801:VAL:HG21	3:I:126:LEU:CD2	1.64	1.28
2:Q:121:LEU:C	2:Q:128:PHE:CB	2.07	1.28
1:D:538:GLU:C	4:9:349:LEU:HD12	1.48	1.28
1:G:769:ALA:CB	1:G:770:GLY:HA2	1.64	1.28
2:H:121:LEU:C	2:H:128:PHE:CB	2.07	1.28
1:D:721:LYS:HG3	1:D:736:GLN:CD	1.53	1.27
1:G:538:GLU:C	4:V:349:LEU:HD12	1.48	1.27
2:H:121:LEU:O	2:H:128:PHE:CB	1.79	1.27
1:P:505:MLY:HE3	1:P:762:HIS:CE1	1.21	1.27
1:P:538:GLU:C	4:O:349:LEU:HD12	1.48	1.27
4:3:288:ASP:OD2	4:5:203:THR:HG21	1.14	1.27
1:A:831:TRP:CH2	2:B:50:THR:CG2	2.17	1.27
1:G:735:GLY:O	1:G:743:ALA:HB2	1.29	1.27
1:A:721:LYS:HG2	1:A:736:GLN:OE1	1.29	1.27
1:D:795:ARG:NH2	3:F:116:GLU:CD	1.91	1.27
2:K:121:LEU:C	2:K:128:PHE:CB	2.07	1.27
1:P:721:LYS:HG3	1:P:736:GLN:CD	1.54	1.27
4:O:288:ASP:CB	4:2:63:GLY:HA3	1.64	1.27
1:A:721:LYS:CG	1:A:736:GLN:OE1	1.83	1.27
1:G:97:LEU:CD2	1:G:712:PRO:CB	2.13	1.27
1:J:557:GLU:CA	4:Y:47:MET:HA	1.09	1.27
1:J:817:GLN:CG	2:K:127:ARG:HD2	1.63	1.27
1:P:786:ILE:O	1:P:788:THR:N	1.65	1.27
1:P:803:TYR:CE1	1:P:807:VAL:HG11	1.70	1.27
4:O:166:TYR:CZ	4:2:64:ILE:HG21	1.69	1.27
1:A:534:SER:O	4:8:351:THR:CA	1.81	1.27
1:D:534:SER:O	4:9:351:THR:CA	1.82	1.27
1:D:800:ARG:NH2	3:F:40:ASN:ND2	1.80	1.27
1:J:538:GLU:O	4:W:349:LEU:CD1	1.78	1.27
1:J:721:LYS:CG	1:J:736:GLN:OE1	1.83	1.27
1:A:149:GLN:HB2	1:A:718:ALA:CB	1.64	1.26
1:A:795:ARG:CD	3:C:43:ASN:OD1	1.83	1.26
2:E:121:LEU:C	2:E:128:PHE:CB	2.07	1.26
1:G:530:MET:HE2	4:V:354:GLN:CG	1.64	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ASP:CG	4:X:47:MET:HE3	1.11	1.26
1:G:755:HIS:ND1	1:G:779:ARG:NH1	1.81	1.26
1:J:733:PRO:O	1:J:737:PHE:HD1	0.93	1.26
4:1:288:ASP:OD2	4:3:203:THR:HG21	1.32	1.26
2:B:121:LEU:C	2:B:128:PHE:CB	2.07	1.26
1:D:538:GLU:O	4:9:349:LEU:CD1	1.78	1.26
1:D:831:TRP:CH2	2:E:47:LEU:HA	1.71	1.26
1:P:534:SER:O	4:0:351:THR:CA	1.82	1.26
1:G:97:LEU:HD23	1:G:712:PRO:CB	1.63	1.26
1:J:534:SER:O	4:W:351:THR:CA	1.81	1.26
1:P:819:ASN:ND2	2:Q:92:ASP:HB2	0.93	1.26
1:A:149:GLN:HG3	1:A:719:ASP:OD1	1.23	1.26
1:A:502:GLU:CA	1:A:761:GLY:HA3	1.65	1.26
1:A:530:MET:HE2	4:8:354:GLN:CG	1.65	1.26
1:G:28:GLN:HB3	1:G:723:ARG:NH1	1.48	1.26
1:G:795:ARG:NH2	3:I:116:GLU:CG	1.98	1.26
1:G:818:TYR:OH	2:H:127:ARG:NH2	1.64	1.26
1:J:829:TRP:CZ3	2:K:87:LYS:NZ	2.01	1.26
1:P:530:MET:HE2	4:0:354:GLN:CG	1.65	1.26
1:P:803:TYR:CD1	1:P:807:VAL:CG1	2.18	1.26
4:X:291:LYS:HD2	4:Z:244:ASP:N	1.48	1.26
1:G:733:PRO:O	1:G:737:PHE:HD1	0.93	1.25
1:G:818:TYR:CE1	2:H:127:ARG:NH2	2.03	1.25
1:A:93:MET:CE	1:A:715:VAL:HA	1.65	1.25
1:D:721:LYS:CG	1:D:736:GLN:OE1	1.82	1.25
1:G:84:MLY:HG2	1:G:723:ARG:CD	1.63	1.25
1:G:721:LYS:CG	1:G:736:GLN:OE1	1.83	1.25
1:J:530:MET:HE2	4:W:354:GLN:CG	1.65	1.25
1:J:756:THR:HG21	1:J:776:GLU:C	1.57	1.25
1:A:795:ARG:CD	3:C:35:ARG:HH12	1.49	1.25
1:A:836:PHE:CZ	2:B:160:GLY:N	2.05	1.25
1:D:735:GLY:O	1:D:743:ALA:HB2	1.29	1.25
1:D:769:ALA:C	1:D:774:LEU:HB2	1.62	1.25
1:J:630:ALA:O	4:W:25:ASP:OD2	1.52	1.25
4:1:288:ASP:CG	4:3:203:THR:HG21	1.59	1.25
1:A:709:LYS:C	1:A:710:GLY:HA3	1.61	1.25
1:A:768:MLY:HB3	1:A:771:LEU:CB	1.65	1.25
1:A:799:MET:CE	3:C:32:ASP:HB3	1.65	1.25
1:D:530:MET:HE2	4:9:354:GLN:CG	1.65	1.25
1:G:534:SER:O	4:V:351:THR:CA	1.83	1.25
1:J:788:THR:O	3:L:42:THR:HG21	1.24	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:819:ASN:CG	2:Q:92:ASP:CB	2.02	1.25
4:V:324:THR:HG21	4:X:247:VAL:N	1.49	1.25
2:B:54:MET:HA	2:H:21:GLU:OE1	1.34	1.24
2:B:117:LEU:HD12	2:B:147:ASN:OD1	1.32	1.24
1:D:733:PRO:O	1:D:737:PHE:HD1	0.93	1.24
1:G:707:CYS:SG	1:G:714:ARG:NH2	2.10	1.24
1:J:84:MLY:HH21	1:J:720:PHE:CA	1.66	1.24
1:J:557:GLU:HA	4:Y:47:MET:C	1.62	1.24
1:A:538:GLU:C	4:8:349:LEU:HD12	1.48	1.24
4:9:322:PRO:CB	4:W:244:ASP:OD2	1.86	1.24
1:G:646:PHE:CE2	1:G:652:LEU:HD11	1.73	1.24
1:G:800:ARG:NH2	3:I:40:ASN:OD1	1.69	1.24
1:P:630:ALA:O	4:0:25:ASP:OD2	1.52	1.24
2:Q:117:LEU:CD1	2:Q:147:ASN:CG	2.04	1.24
4:1:288:ASP:CG	4:3:203:THR:CG2	2.09	1.24
1:D:646:PHE:CE2	1:D:652:LEU:HD11	1.73	1.24
1:D:800:ARG:NH2	3:F:40:ASN:HD21	1.36	1.24
1:G:94:MET:O	1:G:713:SER:HB3	1.19	1.24
1:J:756:THR:HG22	1:J:776:GLU:CB	1.67	1.24
1:J:819:ASN:HA	2:K:90:GLY:O	1.17	1.24
1:P:552:ASN:HD22	4:2:49:GLN:CG	1.49	1.24
1:P:785:GLU:O	1:P:788:THR:OG1	1.54	1.24
4:V:325:MET:SD	4:X:244:ASP:HB2	1.77	1.24
4:7:322:PRO:CB	4:9:244:ASP:OD2	1.86	1.24
1:A:646:PHE:CE2	1:A:652:LEU:HD11	1.73	1.23
1:A:733:PRO:O	1:A:737:PHE:HD1	0.93	1.23
1:J:817:GLN:HB3	2:K:127:ARG:CD	1.67	1.23
1:G:819:ASN:CG	2:H:92:ASP:CB	2.00	1.23
1:G:831:TRP:CZ2	2:H:47:LEU:HD21	1.72	1.23
1:P:721:LYS:CG	1:P:736:GLN:OE1	1.83	1.23
2:H:144:VAL:CG1	2:H:153:ILE:HD11	1.64	1.23
1:P:819:ASN:HA	2:Q:90:GLY:O	1.10	1.23
4:8:322:PRO:CB	4:V:244:ASP:OD2	1.86	1.23
1:A:505:MLY:CG	1:A:762:HIS:CD2	2.22	1.23
1:A:538:GLU:C	4:8:349:LEU:HD11	1.54	1.23
1:A:629:GLU:CA	1:A:643:GLY:O	1.87	1.23
1:A:630:ALA:O	4:8:25:ASP:OD2	1.53	1.23
1:J:646:PHE:CE2	1:J:652:LEU:HD11	1.73	1.23
1:J:735:GLY:O	1:J:743:ALA:HB2	1.29	1.23
1:P:646:PHE:CE2	1:P:652:LEU:HD11	1.73	1.23
1:P:733:PRO:O	1:P:737:PHE:HD1	0.93	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:202:THR:CB	4:Z:287:ILE:CG2	2.09	1.23
1:A:834:LEU:HD21	2:B:54:MET:SD	1.78	1.23
1:J:538:GLU:C	4:W:349:LEU:HD12	1.48	1.23
1:P:215:GLN:N	1:P:340:ILE:CG1	2.02	1.23
1:P:502:GLU:OE2	1:P:761:GLY:HA3	1.38	1.23
1:A:641:LYS:CG	1:A:647:GLN:CG	2.16	1.22
1:D:838:ILE:HD12	2:E:54:MET:CE	1.65	1.22
1:G:557:GLU:CB	4:X:46:GLY:O	1.86	1.22
1:J:84:MLY:CH1	1:J:720:PHE:CD1	2.22	1.22
1:A:534:SER:O	4:8:351:THR:CB	1.87	1.22
1:A:834:LEU:CD2	2:B:54:MET:CE	1.98	1.22
2:K:117:LEU:HD12	2:K:147:ASN:OD1	1.32	1.22
1:P:818:TYR:CE1	2:Q:127:ARG:NH2	2.07	1.22
1:A:215:GLN:N	1:A:340:ILE:CG1	2.02	1.22
1:A:538:GLU:O	4:8:349:LEU:HD11	1.35	1.22
1:G:28:GLN:CB	1:G:723:ARG:HH12	1.50	1.22
1:G:817:GLN:CD	2:H:127:ARG:HD2	1.65	1.22
1:J:215:GLN:N	1:J:340:ILE:CG1	2.02	1.22
1:P:629:GLU:CA	1:P:643:GLY:O	1.87	1.22
4:1:287:ILE:CB	4:3:203:THR:N	2.00	1.22
1:D:630:ALA:O	4:9:25:ASP:OD2	1.52	1.22
1:G:817:GLN:OE1	2:H:127:ARG:HD2	1.37	1.22
1:P:534:SER:O	4:0:351:THR:CB	1.87	1.22
1:D:641:LYS:CD	1:D:647:GLN:NE2	1.99	1.22
1:G:567:LYS:NZ	4:X:92:ASN:ND2	1.86	1.22
1:J:534:SER:O	4:W:351:THR:CB	1.87	1.22
1:A:641:LYS:CD	1:A:647:GLN:NE2	1.99	1.21
1:G:215:GLN:N	1:G:340:ILE:CG1	2.02	1.21
1:J:756:THR:HG21	1:J:776:GLU:O	1.33	1.21
4:W:324:THR:CG2	4:Y:247:VAL:N	1.89	1.21
1:A:505:MLY:CG	1:A:762:HIS:HD2	1.51	1.21
1:D:713:SER:N	1:D:771:LEU:HD22	1.52	1.21
1:G:215:GLN:N	1:G:340:ILE:HG12	1.19	1.21
1:A:641:LYS:CG	1:A:647:GLN:HG3	1.71	1.21
1:D:838:ILE:CD1	2:E:54:MET:SD	2.26	1.21
1:G:556:ASP:OD1	4:X:47:MET:HE3	1.39	1.21
1:G:791:GLN:NE2	3:I:115:GLY:CA	2.02	1.21
1:J:629:GLU:CA	1:J:643:GLY:O	1.87	1.21
1:J:817:GLN:CD	2:K:127:ARG:HD2	1.66	1.21
1:P:538:GLU:C	4:0:349:LEU:HD11	1.54	1.21
1:P:552:ASN:ND2	4:2:49:GLN:CG	2.03	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:166:TYR:OH	4:2:64:ILE:HG21	1.33	1.21
1:A:149:GLN:CD	1:A:716:LEU:HD23	1.64	1.21
1:D:534:SER:O	4:9:351:THR:CB	1.88	1.21
1:G:629:GLU:CA	1:G:643:GLY:O	1.87	1.21
1:G:641:LYS:CG	1:G:647:GLN:HG3	1.71	1.21
4:2:322:PRO:HB3	4:4:244:ASP:OD2	1.39	1.21
1:A:95:THR:OG1	1:A:769:ALA:C	1.84	1.21
1:D:215:GLN:N	1:D:340:ILE:CG1	2.02	1.21
1:D:629:GLU:CA	1:D:643:GLY:O	1.87	1.21
1:D:641:LYS:CG	1:D:647:GLN:HG3	1.70	1.21
1:G:538:GLU:O	4:V:349:LEU:HD11	1.34	1.21
1:G:795:ARG:CZ	3:I:116:GLU:CD	2.13	1.21
2:H:111:SER:CB	2:H:148:VAL:C	1.93	1.21
1:J:817:GLN:CB	2:K:127:ARG:HD2	1.69	1.21
1:P:831:TRP:CZ2	2:Q:47:LEU:CD2	2.22	1.21
4:3:287:ILE:HD13	4:5:203:THR:HB	1.22	1.20
1:J:820:VAL:CG1	2:K:136:MET:HE1	1.70	1.20
1:J:820:VAL:HG11	2:K:136:MET:CE	1.71	1.20
1:P:797:PHE:HE1	3:R:146:ILE:CD1	1.37	1.20
1:A:797:PHE:CD1	3:C:146:ILE:O	1.95	1.20
2:E:117:LEU:CD1	2:E:147:ASN:CB	2.19	1.20
1:G:534:SER:O	4:V:351:THR:CB	1.88	1.20
1:P:538:GLU:OE2	4:O:355:MET:CE	1.90	1.20
2:Q:117:LEU:CD1	2:Q:147:ASN:CB	2.19	1.20
1:G:783:LEU:O	1:G:787:ILE:N	1.71	1.20
4:9:322:PRO:HB2	4:W:244:ASP:OD2	1.39	1.20
1:G:792:ALA:HB3	3:I:42:THR:HG22	1.20	1.20
1:G:819:ASN:ND2	2:H:92:ASP:CB	2.04	1.20
1:J:538:GLU:C	4:W:349:LEU:HD11	1.54	1.20
1:A:707:CYS:HA	1:A:714:ARG:CZ	1.72	1.19
1:A:797:PHE:CE2	3:C:146:ILE:HD12	1.77	1.19
2:B:117:LEU:CD1	2:B:147:ASN:CB	2.19	1.19
1:D:538:GLU:C	4:9:349:LEU:HD11	1.54	1.19
1:G:538:GLU:OE2	4:V:355:MET:CE	1.90	1.19
1:G:838:ILE:CD1	2:H:54:MET:HE3	1.71	1.19
2:K:117:LEU:CD1	2:K:147:ASN:CB	2.19	1.19
1:P:641:LYS:CD	1:P:647:GLN:NE2	1.99	1.19
1:A:97:LEU:CD2	1:A:712:PRO:HB3	1.72	1.19
1:G:792:ALA:CB	3:I:42:THR:CG2	1.80	1.19
1:J:538:GLU:OE2	4:W:355:MET:CE	1.90	1.19
2:K:121:LEU:C	2:K:128:PHE:HB2	1.67	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:97:LEU:CD2	1:P:712:PRO:HB3	1.70	1.19
1:P:641:LYS:CG	1:P:647:GLN:HG3	1.71	1.19
1:P:836:PHE:CZ	2:Q:160:GLY:N	2.10	1.19
4:1:287:ILE:CG1	4:3:202:THR:CA	2.19	1.19
1:A:499:GLU:OE1	1:A:766:PHE:HZ	1.09	1.19
2:H:117:LEU:CD1	2:H:147:ASN:CB	2.19	1.19
1:J:819:ASN:OD1	2:K:92:ASP:N	1.74	1.19
4:0:288:ASP:CG	4:2:63:GLY:H	1.45	1.19
4:X:291:LYS:HE3	4:Z:243:PRO:HB3	1.24	1.19
1:A:538:GLU:OE2	4:8:355:MET:CE	1.91	1.19
1:D:553:MLY:CE	4:W:45:VAL:HA	1.52	1.19
1:G:795:ARG:CA	3:I:118:MET:HE1	1.71	1.19
1:J:754:ASP:CA	1:J:780:ASP:OD2	1.89	1.19
1:P:552:ASN:HD21	4:2:49:GLN:CB	1.55	1.19
1:P:641:LYS:CG	1:P:647:GLN:CG	2.16	1.19
1:D:831:TRP:CZ2	2:E:47:LEU:HD23	1.73	1.19
1:G:641:LYS:CD	1:G:647:GLN:NE2	1.99	1.19
1:G:754:ASP:HB2	1:G:776:GLU:CD	1.63	1.19
1:G:797:PHE:CE1	3:I:146:ILE:HG23	1.77	1.19
4:8:322:PRO:HB2	4:V:244:ASP:OD2	1.39	1.19
4:X:286:ASP:OD1	4:Z:202:THR:HB	1.05	1.19
1:A:557:GLU:H	4:V:48:GLY:CA	1.56	1.18
1:A:736:GLN:N	1:A:743:ALA:CB	2.05	1.18
1:A:793:ARG:HH21	3:C:147:MET:HE3	1.03	1.18
1:D:538:GLU:OE2	4:9:355:MET:CE	1.90	1.18
1:G:797:PHE:CZ	3:I:126:LEU:HD22	1.75	1.18
2:Q:121:LEU:C	2:Q:128:PHE:HB2	1.67	1.18
1:A:798:LEU:HD11	3:C:126:LEU:CD2	1.72	1.18
1:D:797:PHE:CD1	3:F:146:ILE:CG2	2.25	1.18
1:G:641:LYS:CB	1:G:647:GLN:NE2	2.07	1.18
1:J:641:LYS:CG	1:J:647:GLN:HG3	1.71	1.18
1:P:829:TRP:HZ3	2:Q:84:PHE:CZ	1.60	1.18
4:W:324:THR:HG21	4:Y:246:GLN:C	1.61	1.18
1:P:831:TRP:CH2	2:Q:47:LEU:HD21	1.70	1.18
1:A:215:GLN:N	1:A:340:ILE:HG12	1.20	1.18
1:A:800:ARG:HB3	3:C:149:VAL:HG22	1.19	1.18
2:B:144:VAL:CG1	2:B:153:ILE:HD11	1.64	1.18
1:D:641:LYS:CG	1:D:647:GLN:CG	2.15	1.18
1:D:713:SER:N	1:D:771:LEU:CD2	1.96	1.18
1:G:557:GLU:HA	4:X:48:GLY:N	1.13	1.18
1:J:818:TYR:CE1	2:K:127:ARG:CZ	2.27	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:818:TYR:CZ	2:Q:127:ARG:NH2	2.11	1.18
4:0:205:GLU:HG3	4:Y:287:ILE:CG1	1.73	1.18
4:1:203:THR:HG21	4:Z:288:ASP:CG	1.68	1.18
1:A:818:TYR:HB2	2:B:90:GLY:CA	1.73	1.18
1:D:541:MET:C	4:9:143:TYR:OH	1.87	1.18
1:D:557:GLU:H	4:W:48:GLY:CA	1.56	1.18
1:G:721:LYS:HA	1:G:736:GLN:NE2	1.58	1.18
1:J:538:GLU:HA	4:W:349:LEU:CD1	1.55	1.18
1:J:641:LYS:CB	1:J:647:GLN:NE2	2.07	1.18
1:P:641:LYS:CB	1:P:647:GLN:NE2	2.07	1.18
1:P:793:ARG:NH2	3:R:147:MET:HE3	1.55	1.18
1:A:836:PHE:CE1	2:B:159:HIS:HB2	1.79	1.17
1:J:541:MET:C	4:W:143:TYR:OH	1.87	1.17
1:P:503:TYR:OH	1:P:711:PHE:HD2	1.23	1.17
1:P:538:GLU:HA	4:0:349:LEU:CD1	1.55	1.17
1:A:541:MET:C	4:8:143:TYR:OH	1.87	1.17
1:D:538:GLU:OE2	4:9:355:MET:HE1	1.44	1.17
1:D:800:ARG:NH2	3:F:40:ASN:CG	2.01	1.17
2:E:121:LEU:C	2:E:128:PHE:HB2	1.67	1.17
2:E:144:VAL:CG1	2:E:153:ILE:HD11	1.64	1.17
3:F:48:LYS:C	3:F:52:ASN:ND2	2.03	1.17
1:G:505:MLY:NZ	1:G:762:HIS:CE1	2.12	1.17
1:G:796:GLY:HA2	3:I:35:ARG:HD3	1.25	1.17
2:H:117:LEU:HD12	2:H:147:ASN:OD1	1.32	1.17
1:J:721:LYS:HA	1:J:736:GLN:NE2	1.59	1.17
1:P:538:GLU:OE2	4:0:355:MET:HE1	1.44	1.17
1:P:552:ASN:ND2	4:2:49:GLN:CB	2.08	1.17
1:P:739:ASP:HB3	1:P:742:LYS:HB3	1.21	1.17
4:8:290:ARG:NH2	4:V:202:THR:HG23	1.59	1.17
1:A:795:ARG:HG2	3:C:118:MET:HE1	1.17	1.17
1:D:799:MET:SD	3:F:32:ASP:CA	2.32	1.17
1:G:541:MET:C	4:V:143:TYR:OH	1.87	1.17
1:G:735:GLY:O	1:G:743:ALA:CB	1.91	1.17
1:J:756:THR:C	1:J:776:GLU:OE1	1.87	1.17
1:P:541:MET:C	4:0:143:TYR:OH	1.87	1.17
1:P:641:LYS:CE	4:0:348:SER:O	1.93	1.17
1:A:641:LYS:CB	1:A:647:GLN:NE2	2.07	1.17
1:A:735:GLY:O	1:A:743:ALA:CB	1.91	1.17
1:A:791:GLN:OE1	3:C:116:GLU:HG3	1.38	1.17
1:D:721:LYS:HA	1:D:736:GLN:NE2	1.58	1.17
1:D:797:PHE:CE1	3:F:146:ILE:HA	1.79	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:553:MLY:CE	4:X:45:VAL:CB	2.22	1.17
1:P:786:ILE:HG23	1:P:787:ILE:CB	1.73	1.17
1:P:792:ALA:CA	3:R:42:THR:HG22	1.74	1.17
1:A:201:ALA:O	1:A:202:SER:HB3	1.35	1.17
1:D:538:GLU:HA	4:9:349:LEU:CD1	1.54	1.17
1:D:641:LYS:CE	4:9:348:SER:O	1.93	1.17
1:D:795:ARG:CZ	3:F:116:GLU:CD	2.16	1.17
1:D:823:PHE:HE1	2:E:160:GLY:CA	1.55	1.17
1:G:503:TYR:CE1	1:G:711:PHE:CE2	2.33	1.17
1:G:797:PHE:CE2	3:I:126:LEU:CD2	2.28	1.17
1:J:641:LYS:CE	4:W:348:SER:O	1.93	1.17
1:J:756:THR:CG2	1:J:776:GLU:CA	2.22	1.17
3:R:48:LYS:C	3:R:52:ASN:ND2	2.03	1.17
1:D:641:LYS:CB	1:D:647:GLN:NE2	2.07	1.16
1:G:201:ALA:O	1:G:202:SER:HB3	1.35	1.16
1:G:557:GLU:HB3	4:X:46:GLY:O	0.99	1.16
1:G:739:ASP:HB3	1:G:742:LYS:HB3	1.21	1.16
3:I:48:LYS:C	3:I:52:ASN:ND2	2.03	1.16
1:J:797:PHE:CE1	3:L:146:ILE:HD12	1.80	1.16
1:J:817:GLN:CG	2:K:127:ARG:HB2	1.74	1.16
3:L:48:LYS:C	3:L:52:ASN:ND2	2.03	1.16
1:P:548:THR:HG21	4:2:49:GLN:CA	1.75	1.16
4:7:322:PRO:HB2	4:9:244:ASP:OD2	1.39	1.16
1:J:735:GLY:O	1:J:743:ALA:CB	1.91	1.16
2:K:144:VAL:CG1	2:K:153:ILE:HD11	1.64	1.16
1:P:548:THR:HG22	4:2:49:GLN:CB	1.70	1.16
1:P:641:LYS:HD2	1:P:647:GLN:CD	1.70	1.16
2:Q:144:VAL:CG1	2:Q:153:ILE:HD11	1.65	1.16
4:X:291:LYS:CD	4:Z:244:ASP:N	2.07	1.16
1:A:95:THR:OG1	1:A:769:ALA:CA	1.94	1.16
1:A:800:ARG:NH2	3:C:40:ASN:HD21	1.42	1.16
1:G:201:ALA:O	1:G:202:SER:CB	1.92	1.16
1:G:215:GLN:HA	1:G:340:ILE:CG2	1.75	1.16
1:G:553:MLY:HG3	4:X:45:VAL:O	1.01	1.16
1:G:642:LYS:CG	4:V:23:GLY:N	2.08	1.16
1:J:829:TRP:CZ2	2:K:87:LYS:HE2	1.80	1.16
1:P:548:THR:HG22	4:2:49:GLN:HB2	1.18	1.16
1:P:642:LYS:CG	4:0:23:GLY:N	2.08	1.16
4:9:290:ARG:NH2	4:W:202:THR:HG23	1.59	1.16
1:A:553:MLY:CE	4:V:45:VAL:HA	1.52	1.16
1:A:641:LYS:HD2	1:A:647:GLN:NE2	1.59	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:PHE:CE1	3:C:146:ILE:CA	2.27	1.16
2:B:117:LEU:HB2	2:B:147:ASN:CG	1.70	1.16
3:C:48:LYS:C	3:C:52:ASN:ND2	2.03	1.16
1:J:215:GLN:HA	1:J:340:ILE:CG2	1.75	1.16
1:P:649:VAL:CG2	1:P:649:VAL:HA	1.76	1.16
1:A:641:LYS:CE	4:8:348:SER:O	1.93	1.16
1:A:798:LEU:HD11	3:C:126:LEU:HD21	1.21	1.16
2:B:117:LEU:CD1	2:B:147:ASN:HB3	1.75	1.16
1:G:538:GLU:OE2	4:V:355:MET:HE1	1.44	1.16
1:P:84:MLY:HG2	1:P:723:ARG:NE	1.59	1.16
1:P:792:ALA:N	3:R:42:THR:HG22	1.60	1.16
1:P:804:ARG:CG	1:P:808:GLU:CG	2.24	1.16
1:A:721:LYS:HA	1:A:736:GLN:NE2	1.58	1.15
1:A:799:MET:SD	3:C:32:ASP:CA	2.34	1.15
1:A:819:ASN:ND2	2:B:92:ASP:N	1.95	1.15
1:D:641:LYS:CE	1:D:647:GLN:CD	2.18	1.15
1:D:641:LYS:HD2	1:D:647:GLN:NE2	1.58	1.15
1:G:641:LYS:HD2	1:G:647:GLN:NE2	1.58	1.15
2:H:117:LEU:HB2	2:H:147:ASN:CG	1.70	1.15
1:J:201:ALA:O	1:J:202:SER:CB	1.92	1.15
1:J:641:LYS:CE	1:J:647:GLN:CD	2.18	1.15
1:J:756:THR:HG22	1:J:776:GLU:CD	1.70	1.15
2:K:117:LEU:CD1	2:K:147:ASN:HB3	1.76	1.15
1:P:721:LYS:HA	1:P:736:GLN:NE2	1.58	1.15
4:7:290:ARG:NH2	4:9:202:THR:HG23	1.59	1.15
4:V:325:MET:SD	4:X:244:ASP:CB	2.33	1.15
1:A:639:GLY:CA	4:8:345:ILE:HA	1.74	1.15
1:G:640:LYS:HB3	1:G:645:SER:OG	1.46	1.15
1:G:795:ARG:HH21	3:I:116:GLU:CG	1.59	1.15
1:J:640:LYS:HB3	1:J:645:SER:OG	1.45	1.15
1:J:641:LYS:CD	1:J:647:GLN:NE2	1.99	1.15
1:J:642:LYS:CG	4:W:23:GLY:N	2.08	1.15
1:P:215:GLN:HA	1:P:340:ILE:CG2	1.75	1.15
1:A:542:PHE:HA	4:8:143:TYR:CE1	1.82	1.15
1:D:542:PHE:HA	4:9:143:TYR:CE1	1.82	1.15
1:D:649:VAL:HA	1:D:649:VAL:CG2	1.76	1.15
1:D:736:GLN:N	1:D:743:ALA:CB	2.05	1.15
1:D:813:ILE:HD13	2:E:128:PHE:CE1	1.81	1.15
1:G:553:MLY:HE2	4:X:45:VAL:CB	1.75	1.15
1:G:769:ALA:CB	1:G:770:GLY:CA	2.25	1.15
2:H:111:SER:CA	2:H:148:VAL:O	1.95	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:121:LEU:C	2:H:128:PHE:HB2	1.67	1.15
1:P:542:PHE:HA	4:O:143:TYR:CE1	1.82	1.15
1:P:639:GLY:HA3	4:O:344:SER:O	1.46	1.15
1:A:215:GLN:HA	1:A:340:ILE:CG2	1.76	1.15
1:A:538:GLU:OE2	4:8:355:MET:HE1	1.45	1.15
1:A:641:LYS:CE	1:A:647:GLN:CD	2.18	1.15
1:A:791:GLN:HE22	3:C:116:GLU:N	1.42	1.15
2:B:111:SER:CB	2:B:148:VAL:C	1.93	1.15
1:J:542:PHE:HA	4:W:143:TYR:CE1	1.82	1.15
1:J:635:GLY:HA2	4:W:334:GLU:HG2	1.16	1.15
1:P:641:LYS:CE	1:P:647:GLN:CD	2.18	1.15
1:P:641:LYS:HD2	1:P:647:GLN:NE2	1.59	1.15
4:3:322:PRO:HB3	4:5:244:ASP:CG	1.72	1.15
1:A:553:MLY:HB3	4:V:46:GLY:CA	1.51	1.15
1:A:639:GLY:HA3	4:8:344:SER:O	1.47	1.15
1:D:215:GLN:HA	1:D:340:ILE:CG2	1.76	1.15
1:G:505:MLY:HH23	1:G:762:HIS:ND1	1.49	1.15
1:J:641:LYS:HD2	1:J:647:GLN:NE2	1.59	1.15
1:J:736:GLN:N	1:J:743:ALA:CB	2.05	1.15
1:P:548:THR:CG2	4:2:49:GLN:CA	2.24	1.15
1:P:799:MET:HB2	3:R:35:ARG:HD3	1.22	1.15
2:Q:117:LEU:CD1	2:Q:147:ASN:HB3	1.76	1.15
4:O:112:PRO:CB	4:1:196:ARG:CA	2.17	1.15
4:1:203:THR:CG2	4:Z:287:ILE:HB	1.77	1.15
4:X:325:MET:SD	4:Z:244:ASP:OD2	2.04	1.15
2:B:112:ILE:O	2:B:147:ASN:O	1.65	1.14
1:D:642:LYS:CG	4:9:23:GLY:N	2.08	1.14
1:G:641:LYS:CE	1:G:647:GLN:CD	2.18	1.14
2:H:121:LEU:CA	2:H:128:PHE:HB3	1.77	1.14
1:J:639:GLY:HA3	4:W:344:SER:O	1.46	1.14
1:J:757:GLN:NE2	1:J:777:GLU:N	1.94	1.14
1:P:635:GLY:HA2	4:O:334:GLU:HG2	1.16	1.14
1:P:797:PHE:CZ	3:R:146:ILE:CD1	2.20	1.14
1:P:804:ARG:HG2	1:P:808:GLU:CG	1.77	1.14
2:Q:111:SER:CB	2:Q:148:VAL:C	1.93	1.14
4:O:288:ASP:HB2	4:2:63:GLY:CA	1.75	1.14
1:A:502:GLU:CG	1:A:761:GLY:HA3	1.78	1.14
1:A:642:LYS:CG	4:8:23:GLY:N	2.09	1.14
2:B:111:SER:CA	2:B:148:VAL:O	1.95	1.14
1:D:640:LYS:HB3	1:D:645:SER:OG	1.46	1.14
1:D:735:GLY:O	1:D:743:ALA:CB	1.91	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:815:CYS:SG	2:E:92:ASP:HB2	1.86	1.14
1:G:542:PHE:HA	4:V:143:TYR:CE1	1.82	1.14
1:G:639:GLY:HA3	4:V:344:SER:O	1.46	1.14
1:G:641:LYS:CE	4:V:348:SER:O	1.93	1.14
1:G:649:VAL:HA	1:G:649:VAL:CG2	1.76	1.14
1:P:795:ARG:HE	3:R:116:GLU:CD	1.55	1.14
1:P:831:TRP:CZ2	2:Q:47:LEU:HD22	1.80	1.14
2:Q:117:LEU:HB2	2:Q:147:ASN:CG	1.71	1.14
1:A:649:VAL:HG13	1:A:649:VAL:HG22	1.21	1.14
1:A:649:VAL:HA	1:A:649:VAL:CG2	1.76	1.14
1:D:639:GLY:CA	4:9:345:ILE:HA	1.73	1.14
1:D:641:LYS:HG3	1:D:647:GLN:HG3	1.20	1.14
2:H:117:LEU:CD1	2:H:147:ASN:HB3	1.76	1.14
1:J:538:GLU:OE2	4:W:355:MET:HE1	1.44	1.14
1:J:649:VAL:HA	1:J:649:VAL:CG2	1.76	1.14
2:K:121:LEU:CA	2:K:128:PHE:HB3	1.77	1.14
1:P:640:LYS:HB3	1:P:645:SER:OG	1.45	1.14
1:A:640:LYS:HB3	1:A:645:SER:OG	1.46	1.14
2:B:121:LEU:CA	2:B:128:PHE:HB3	1.77	1.14
1:D:635:GLY:HA2	4:9:334:GLU:HG2	1.16	1.14
1:D:641:LYS:NZ	4:9:348:SER:O	1.80	1.14
1:G:753:VAL:CA	1:G:780:ASP:OD1	1.94	1.14
1:P:783:LEU:CG	1:P:786:ILE:HD11	1.76	1.14
4:W:325:MET:SD	4:Y:244:ASP:CB	2.35	1.14
1:A:498:LEU:CD2	1:A:764:MLY:HH22	1.78	1.14
1:A:795:ARG:HD2	3:C:35:ARG:HH12	1.01	1.14
1:A:819:ASN:OD1	2:B:91:ALA:HA	1.44	1.14
2:E:117:LEU:HB2	2:E:147:ASN:CG	1.71	1.14
1:G:639:GLY:HA2	4:V:345:ILE:HA	1.26	1.14
1:G:830:PRO:CB	2:H:67:MET:HE2	1.78	1.14
1:J:641:LYS:HD2	1:J:647:GLN:CD	1.70	1.14
4:7:287:ILE:HG21	4:9:205:GLU:HG2	1.17	1.14
1:A:149:GLN:CB	1:A:719:ASP:N	2.11	1.13
2:B:121:LEU:C	2:B:128:PHE:HB2	1.67	1.13
1:D:639:GLY:HA3	4:9:344:SER:O	1.46	1.13
1:D:795:ARG:CB	3:F:35:ARG:HH12	1.51	1.13
2:E:117:LEU:HD12	2:E:147:ASN:OD1	1.32	1.13
1:G:599:ASN:OD1	1:G:649:VAL:CB	1.96	1.13
1:J:739:ASP:HB3	1:J:742:LYS:HB3	1.21	1.13
1:J:792:ALA:HA	3:L:42:THR:HA	1.29	1.13
2:K:111:SER:CA	2:K:148:VAL:O	1.95	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:111:SER:CA	2:Q:148:VAL:O	1.95	1.13
1:A:641:LYS:CE	1:A:647:GLN:OE1	1.97	1.13
1:D:713:SER:H	1:D:771:LEU:HD22	0.98	1.13
2:E:111:SER:CA	2:E:148:VAL:O	1.95	1.13
1:J:557:GLU:HA	4:Y:47:MET:CA	1.48	1.13
2:K:117:LEU:HB2	2:K:147:ASN:CG	1.70	1.13
2:K:121:LEU:C	2:K:128:PHE:HB3	1.71	1.13
1:P:599:ASN:OD1	1:P:649:VAL:CB	1.96	1.13
1:P:721:LYS:HA	1:P:736:GLN:CD	1.73	1.13
1:P:793:ARG:CZ	3:R:87:PHE:HE1	1.60	1.13
1:P:804:ARG:CG	1:P:808:GLU:HG3	1.78	1.13
1:A:599:ASN:OD1	1:A:649:VAL:CB	1.96	1.13
1:D:201:ALA:O	1:D:202:SER:HB3	1.36	1.13
1:D:599:ASN:OD1	1:D:649:VAL:CB	1.96	1.13
1:D:721:LYS:CG	1:D:736:GLN:CG	1.96	1.13
1:D:797:PHE:CE2	3:F:126:LEU:CD2	2.21	1.13
1:G:84:MLY:CB	1:G:723:ARG:NE	2.12	1.13
1:G:831:TRP:CZ2	2:H:47:LEU:CD2	2.29	1.13
1:J:641:LYS:CE	1:J:647:GLN:OE1	1.97	1.13
1:P:552:ASN:HD22	4:2:49:GLN:HG3	1.03	1.13
1:P:795:ARG:NH2	3:R:116:GLU:OE1	1.78	1.13
1:P:819:ASN:CA	2:Q:90:GLY:O	1.96	1.13
1:G:649:VAL:HG22	1:G:649:VAL:HG13	1.21	1.13
2:K:112:ILE:O	2:K:147:ASN:O	1.65	1.13
1:P:201:ALA:O	1:P:202:SER:HB3	1.36	1.13
1:P:641:LYS:CE	1:P:647:GLN:OE1	1.97	1.13
1:P:641:LYS:NZ	4:0:348:SER:O	1.80	1.13
4:9:287:ILE:HG21	4:W:205:GLU:HG2	1.17	1.13
1:A:641:LYS:NZ	4:8:348:SER:O	1.80	1.13
1:J:599:ASN:OD1	1:J:649:VAL:CB	1.96	1.13
1:J:768:MLY:HH11	1:J:772:LEU:CD1	1.69	1.13
1:P:786:ILE:O	1:P:787:ILE:HG22	0.97	1.13
1:D:641:LYS:CE	1:D:647:GLN:OE1	1.97	1.12
1:G:641:LYS:NZ	4:V:348:SER:O	1.80	1.12
1:P:506:GLU:OE2	1:P:760:PHE:HB2	1.48	1.12
4:0:201:VAL:N	4:Y:287:ILE:HG12	1.43	1.12
1:A:721:LYS:HA	1:A:736:GLN:CD	1.73	1.12
1:D:712:PRO:HG2	1:D:771:LEU:HB2	1.26	1.12
1:D:721:LYS:HA	1:D:736:GLN:CD	1.73	1.12
1:G:641:LYS:CE	1:G:647:GLN:OE1	1.97	1.12
2:K:111:SER:HB3	2:K:148:VAL:O	1.50	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:218:LEU:HB2	1:P:221:GLN:HG3	1.17	1.12
1:P:804:ARG:HG3	1:P:808:GLU:HG3	1.22	1.12
2:Q:112:ILE:O	2:Q:147:ASN:O	1.65	1.12
1:A:721:LYS:HG3	1:A:736:GLN:HG2	1.25	1.12
1:D:201:ALA:O	1:D:202:SER:CB	1.92	1.12
1:D:813:ILE:HD13	2:E:128:PHE:HE1	1.03	1.12
2:E:121:LEU:CA	2:E:128:PHE:HB3	1.77	1.12
1:G:639:GLY:CA	4:V:345:ILE:HA	1.73	1.12
1:G:721:LYS:HA	1:G:736:GLN:CD	1.73	1.12
1:A:502:GLU:HG3	1:A:761:GLY:N	1.63	1.12
1:A:792:ALA:CB	3:C:42:THR:HG22	1.80	1.12
2:E:117:LEU:CD1	2:E:147:ASN:HB3	1.75	1.12
1:J:623:PHE:CG	1:J:623:PHE:CB	2.33	1.12
1:P:552:ASN:HD21	4:2:49:GLN:HB3	0.99	1.12
1:P:721:LYS:HG3	1:P:736:GLN:HG2	1.25	1.12
1:P:735:GLY:O	1:P:743:ALA:CB	1.91	1.12
4:X:324:THR:CG2	4:Z:247:VAL:CG2	2.26	1.12
1:A:201:ALA:O	1:A:202:SER:CB	1.92	1.12
1:G:93:MET:HA	1:G:714:ARG:H	1.03	1.12
1:J:641:LYS:NZ	4:W:348:SER:O	1.80	1.12
4:1:287:ILE:HG23	4:3:202:THR:OG1	1.48	1.12
1:A:795:ARG:HB3	3:C:35:ARG:NH2	1.65	1.11
2:B:121:LEU:O	2:B:128:PHE:HB2	0.94	1.11
1:D:831:TRP:CZ3	2:E:34:ILE:CG2	2.32	1.11
1:G:649:VAL:O	1:G:649:VAL:HG12	0.94	1.11
1:G:754:ASP:HB2	1:G:776:GLU:HA	1.20	1.11
1:G:818:TYR:CE1	2:H:127:ARG:CZ	2.32	1.11
1:G:838:ILE:CD1	2:H:54:MET:CE	2.27	1.11
2:H:112:ILE:O	2:H:147:ASN:O	1.65	1.11
2:Q:117:LEU:HD12	2:Q:147:ASN:OD1	1.32	1.11
2:Q:121:LEU:CA	2:Q:128:PHE:HB3	1.78	1.11
2:E:111:SER:CB	2:E:148:VAL:C	1.93	1.11
2:E:112:ILE:O	2:E:147:ASN:O	1.65	1.11
1:G:557:GLU:CA	4:X:48:GLY:N	1.99	1.11
1:A:649:VAL:O	1:A:649:VAL:HG12	0.94	1.11
1:J:97:LEU:HD23	1:J:712:PRO:HB3	1.32	1.11
1:P:730:SER:OG	3:R:89:GLU:OE2	1.67	1.11
4:9:290:ARG:CZ	4:W:202:THR:HG21	1.81	1.11
1:A:795:ARG:NE	3:C:43:ASN:OD1	1.84	1.11
1:D:538:GLU:O	4:9:349:LEU:HD11	1.35	1.11
1:D:623:PHE:CB	1:D:623:PHE:CG	2.33	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:819:ASN:ND2	2:E:90:GLY:O	1.84	1.11
3:F:24:LYS:CB	3:F:63:ILE:O	1.99	1.11
1:G:508:ILE:HD11	1:G:759:ALA:CB	1.80	1.11
1:J:218:LEU:HB2	1:J:221:GLN:HG3	1.17	1.11
1:J:721:LYS:HA	1:J:736:GLN:CD	1.73	1.11
1:P:831:TRP:HH2	2:Q:47:LEU:CD2	1.48	1.11
1:A:218:LEU:HB2	1:A:221:GLN:HG3	1.17	1.11
1:A:623:PHE:CB	1:A:623:PHE:CG	2.33	1.11
1:D:799:MET:HE1	3:F:32:ASP:HB3	1.28	1.11
1:D:800:ARG:HH22	3:F:40:ASN:ND2	1.38	1.11
2:E:121:LEU:O	2:E:128:PHE:HB2	0.94	1.11
1:G:813:ILE:HG23	2:H:128:PHE:CZ	1.86	1.11
1:G:831:TRP:HE1	2:H:67:MET:HB3	1.05	1.11
1:P:97:LEU:CD2	1:P:712:PRO:CB	2.28	1.11
4:1:202:THR:CA	4:Z:287:ILE:HG12	1.81	1.11
1:D:530:MET:CE	4:9:354:GLN:HG2	1.80	1.10
1:G:538:GLU:C	4:V:349:LEU:HD11	1.54	1.10
1:G:557:GLU:HB3	4:X:46:GLY:C	1.76	1.10
1:G:623:PHE:CB	1:G:623:PHE:CG	2.33	1.10
1:P:623:PHE:CG	1:P:623:PHE:CB	2.33	1.10
1:P:783:LEU:HA	1:P:786:ILE:CG1	1.80	1.10
1:P:820:VAL:HG11	2:Q:136:MET:CE	1.80	1.10
1:P:820:VAL:CG1	2:Q:136:MET:HE1	1.81	1.10
1:P:829:TRP:CZ3	2:Q:84:PHE:CZ	2.39	1.10
1:A:149:GLN:HB2	1:A:718:ALA:HB3	1.14	1.10
1:D:639:GLY:HA2	4:9:345:ILE:HA	1.26	1.10
1:D:739:ASP:HB3	1:D:742:LYS:HB3	1.21	1.10
1:D:823:PHE:CE1	2:E:160:GLY:HA2	1.86	1.10
1:G:641:LYS:HG3	1:G:647:GLN:HG3	1.21	1.10
1:J:530:MET:CE	4:W:354:GLN:HG2	1.80	1.10
1:P:530:MET:CE	4:0:354:GLN:HG2	1.80	1.10
1:D:218:LEU:HB2	1:D:221:GLN:HG3	1.17	1.10
1:D:721:LYS:HG3	1:D:736:GLN:HG2	1.25	1.10
1:D:734:GLU:O	1:D:738:MET:HG2	1.51	1.10
1:G:721:LYS:CG	1:G:736:GLN:CG	1.97	1.10
1:G:730:SER:OG	3:I:113:THR:HG21	1.50	1.10
3:I:24:LYS:CB	3:I:63:ILE:O	1.99	1.10
1:J:641:LYS:HG3	1:J:647:GLN:HG3	1.20	1.10
1:J:791:GLN:CD	3:L:116:GLU:HG3	1.75	1.10
1:P:201:ALA:O	1:P:202:SER:CB	1.92	1.10
1:P:639:GLY:CA	4:0:345:ILE:HA	1.73	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:803:TYR:CE1	1:P:807:VAL:CG1	2.33	1.10
4:2:322:PRO:HB3	4:4:244:ASP:CG	1.75	1.10
4:7:290:ARG:CZ	4:9:202:THR:HG21	1.81	1.10
1:A:202:SER:CA	1:A:207:LYS:HE2	1.82	1.10
1:G:202:SER:CA	1:G:207:LYS:HE2	1.82	1.10
1:G:218:LEU:HB2	1:G:221:GLN:HG3	1.17	1.10
1:G:769:ALA:HB3	1:G:770:GLY:CA	1.80	1.10
1:G:832:MET:SD	2:H:84:PHE:HE2	1.73	1.10
3:L:24:LYS:CB	3:L:63:ILE:O	1.99	1.10
1:P:793:ARG:NH2	3:R:147:MET:CE	2.13	1.10
1:D:649:VAL:HG22	1:D:649:VAL:HG13	1.21	1.10
1:G:530:MET:CE	4:V:354:GLN:HG2	1.79	1.10
1:G:734:GLU:O	1:G:738:MET:HG2	1.51	1.10
1:J:721:LYS:HG3	1:J:736:GLN:HG2	1.25	1.10
1:P:649:VAL:O	1:P:649:VAL:HG12	0.93	1.10
4:2:288:ASP:H	4:4:203:THR:HG22	1.17	1.10
1:A:530:MET:CE	4:8:354:GLN:HG2	1.80	1.09
1:A:641:LYS:HE3	1:A:647:GLN:OE1	1.50	1.09
1:A:734:GLU:O	1:A:738:MET:HG2	1.51	1.09
1:D:834:LEU:HD11	2:E:54:MET:HG2	1.09	1.09
1:J:641:LYS:HE3	1:J:647:GLN:CD	1.77	1.09
1:J:641:LYS:HE3	1:J:647:GLN:OE1	1.50	1.09
1:J:649:VAL:O	1:J:649:VAL:HG12	0.94	1.09
2:K:121:LEU:O	2:K:128:PHE:HB2	0.94	1.09
1:P:641:LYS:HE3	1:P:647:GLN:OE1	1.50	1.09
2:Q:121:LEU:O	2:Q:128:PHE:HB2	0.94	1.09
3:R:24:LYS:CB	3:R:63:ILE:O	1.99	1.09
4:8:290:ARG:CZ	4:V:202:THR:HG21	1.81	1.09
1:A:97:LEU:CD2	1:A:712:PRO:CB	2.30	1.09
1:A:97:LEU:HD23	1:A:712:PRO:HB3	1.25	1.09
1:A:502:GLU:HA	1:A:761:GLY:HA3	1.33	1.09
1:A:538:GLU:HA	4:8:349:LEU:CD1	1.54	1.09
1:D:649:VAL:O	1:D:649:VAL:HG12	0.94	1.09
1:D:823:PHE:CE1	2:E:160:GLY:CA	2.34	1.09
1:D:831:TRP:CZ2	2:E:47:LEU:HD22	1.81	1.09
2:E:111:SER:HB3	2:E:148:VAL:O	1.50	1.09
1:G:754:ASP:HB3	1:G:776:GLU:OE2	0.93	1.09
1:G:795:ARG:HA	3:I:118:MET:CE	1.81	1.09
1:G:801:VAL:HG21	3:I:126:LEU:HD23	1.15	1.09
1:J:201:ALA:O	1:J:202:SER:HB3	1.35	1.09
1:J:538:GLU:O	4:W:349:LEU:HD11	1.35	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:571:ALA:O	1:J:572:LYS:HG3	1.52	1.09
1:J:734:GLU:O	1:J:738:MET:HG2	1.51	1.09
1:P:641:LYS:HE3	1:P:647:GLN:CD	1.77	1.09
1:D:538:GLU:CD	4:9:355:MET:HE1	1.77	1.09
2:E:121:LEU:C	2:E:128:PHE:HB3	1.72	1.09
2:H:121:LEU:O	2:H:128:PHE:HB2	0.94	1.09
1:J:538:GLU:CD	4:W:355:MET:HE1	1.77	1.09
1:P:84:MLY:CG	1:P:723:ARG:CD	2.30	1.09
2:Q:121:LEU:C	2:Q:128:PHE:HB3	1.72	1.09
1:A:641:LYS:HE3	1:A:647:GLN:CD	1.77	1.09
1:A:795:ARG:CB	3:C:35:ARG:CZ	2.28	1.09
1:D:571:ALA:O	1:D:572:LYS:HG3	1.52	1.09
1:D:641:LYS:HE3	1:D:647:GLN:CD	1.77	1.09
1:G:84:MLY:CD	1:G:723:ARG:CD	2.29	1.09
2:H:111:SER:HB3	2:H:148:VAL:O	1.50	1.09
1:P:94:MET:O	1:P:713:SER:HB3	1.51	1.09
1:P:733:PRO:HB2	3:R:93:VAL:HG11	1.25	1.09
1:P:797:PHE:HE2	3:R:126:LEU:HD13	1.08	1.09
4:2:324:THR:CB	4:4:243:PRO:O	2.01	1.09
1:A:502:GLU:CG	1:A:761:GLY:CA	2.30	1.09
2:B:121:LEU:C	2:B:128:PHE:HB3	1.72	1.09
3:C:24:LYS:CB	3:C:63:ILE:O	1.99	1.09
1:D:641:LYS:HE3	1:D:647:GLN:OE1	1.50	1.09
1:D:795:ARG:CG	3:F:118:MET:HE1	1.83	1.09
1:D:797:PHE:HE1	3:F:146:ILE:HA	0.96	1.09
1:G:538:GLU:HA	4:V:349:LEU:CD1	1.55	1.09
1:G:557:GLU:CB	4:X:46:GLY:C	2.26	1.09
1:G:641:LYS:HE3	1:G:647:GLN:CD	1.77	1.09
1:P:538:GLU:CD	4:0:355:MET:HE1	1.77	1.09
1:P:571:ALA:O	1:P:572:LYS:HG3	1.52	1.09
1:P:649:VAL:HG22	1:P:649:VAL:HG13	1.21	1.09
1:P:734:GLU:O	1:P:738:MET:HG2	1.51	1.09
4:0:287:ILE:CG2	4:2:203:THR:CG2	2.21	1.09
4:2:290:ARG:CZ	4:4:202:THR:CG2	2.20	1.09
1:A:739:ASP:HB3	1:A:742:LYS:HB3	1.21	1.08
1:D:202:SER:CA	1:D:207:LYS:HE2	1.82	1.08
1:G:538:GLU:CD	4:V:355:MET:HE1	1.77	1.08
1:G:553:MLY:HE2	4:X:45:VAL:HB	1.09	1.08
1:J:95:THR:HA	1:J:713:SER:OG	1.50	1.08
1:J:643:GLY:O	1:J:644:SER:OG	1.69	1.08
2:K:111:SER:CB	2:K:148:VAL:C	1.92	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:202:SER:CA	1:P:207:LYS:HE2	1.82	1.08
1:P:831:TRP:HZ3	2:Q:34:ILE:HD13	1.14	1.08
1:A:529:PRO:C	4:8:354:GLN:HB3	1.78	1.08
1:A:791:GLN:NE2	3:C:116:GLU:N	1.97	1.08
1:D:797:PHE:CE1	3:F:146:ILE:HG23	1.87	1.08
1:G:755:HIS:N	1:G:779:ARG:CZ	2.14	1.08
1:J:649:VAL:HG22	1:J:649:VAL:HG13	1.21	1.08
1:A:538:GLU:CD	4:8:355:MET:HE1	1.78	1.08
2:B:111:SER:OG	2:B:148:VAL:O	1.71	1.08
1:D:769:ALA:O	1:D:774:LEU:HD13	0.91	1.08
1:G:721:LYS:HG3	1:G:736:GLN:HG2	1.25	1.08
1:G:757:GLN:CG	1:G:776:GLU:OE2	2.01	1.08
1:J:202:SER:CA	1:J:207:LYS:HE2	1.82	1.08
1:J:639:GLY:CA	4:W:345:ILE:HA	1.73	1.08
1:J:721:LYS:CG	1:J:736:GLN:CG	1.97	1.08
1:J:754:ASP:CB	1:J:780:ASP:OD2	2.01	1.08
1:J:796:GLY:HA2	3:L:35:ARG:CD	1.82	1.08
2:K:111:SER:OG	2:K:148:VAL:O	1.71	1.08
4:1:287:ILE:HD13	4:3:203:THR:HB	1.10	1.08
1:A:736:GLN:HA	1:A:743:ALA:HB3	1.35	1.08
1:G:553:MLY:CE	4:X:45:VAL:HG12	1.68	1.08
1:G:639:GLY:HA3	4:V:344:SER:C	1.78	1.08
2:H:111:SER:OG	2:H:148:VAL:O	1.71	1.08
1:P:84:MLY:CG	1:P:723:ARG:HD2	1.82	1.08
1:P:638:GLY:CA	4:0:341:ILE:O	2.01	1.08
1:P:641:LYS:HG3	1:P:647:GLN:HG3	1.21	1.08
2:Q:111:SER:CB	2:Q:148:VAL:O	0.78	1.08
1:A:639:GLY:HA3	4:8:344:SER:C	1.78	1.08
1:D:643:GLY:O	1:D:644:SER:OG	1.70	1.08
1:G:148:ARG:NH2	1:G:764:MLY:HH21	1.69	1.08
1:G:643:GLY:O	1:G:644:SER:OG	1.69	1.08
1:J:567:LYS:NZ	4:Y:92:ASN:HD22	1.50	1.08
1:P:548:THR:HG23	4:2:49:GLN:HB2	1.20	1.08
2:Q:111:SER:HB3	2:Q:148:VAL:O	1.50	1.08
4:3:3:ASP:HA	4:3:6:THR:HB	1.36	1.08
4:8:287:ILE:HG21	4:V:205:GLU:HG2	1.17	1.08
1:A:754:ASP:OD2	1:A:778:MET:HE1	1.53	1.07
1:D:638:GLY:CA	4:9:341:ILE:O	2.01	1.07
1:G:641:LYS:CG	1:G:647:GLN:CG	2.16	1.07
1:G:769:ALA:HB1	1:G:770:GLY:HA2	1.36	1.07
1:P:817:GLN:CG	2:Q:127:ARG:HD2	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:641:LYS:HB2	1:A:647:GLN:NE2	1.68	1.07
2:B:111:SER:CB	2:B:148:VAL:O	0.78	1.07
1:D:529:PRO:HB3	4:9:353:GLN:OE1	1.53	1.07
1:D:795:ARG:CZ	3:F:116:GLU:OE2	2.00	1.07
1:D:822:SER:OG	2:E:88:LEU:HD23	0.89	1.07
2:E:111:SER:CB	2:E:148:VAL:O	0.78	1.07
2:E:111:SER:OG	2:E:148:VAL:O	1.71	1.07
1:G:84:MLY:HD3	1:G:723:ARG:CD	1.84	1.07
1:G:635:GLY:HA2	4:V:334:GLU:HG2	1.16	1.07
1:G:641:LYS:HB2	1:G:647:GLN:NE2	1.68	1.07
2:H:111:SER:CB	2:H:148:VAL:O	0.78	1.07
1:J:529:PRO:HB3	4:W:353:GLN:OE1	1.53	1.07
1:P:538:GLU:O	4:0:349:LEU:HD11	1.35	1.07
1:P:639:GLY:HA2	4:0:345:ILE:HA	1.26	1.07
1:A:409:GLY:N	1:A:636:LYS:HG3	1.69	1.07
1:A:529:PRO:HB3	4:8:353:GLN:OE1	1.53	1.07
1:A:635:GLY:HA2	4:8:334:GLU:HG2	1.15	1.07
1:A:639:GLY:HA2	4:8:345:ILE:HA	1.26	1.07
1:A:798:LEU:CD1	3:C:126:LEU:HD21	1.82	1.07
1:D:409:GLY:N	1:D:636:LYS:HG3	1.69	1.07
1:G:529:PRO:HB3	4:V:353:GLN:OE1	1.53	1.07
1:G:795:ARG:HH21	3:I:116:GLU:HG2	0.98	1.07
1:J:638:GLY:CA	4:W:341:ILE:O	2.01	1.07
2:K:111:SER:CB	2:K:148:VAL:O	0.78	1.07
1:P:97:LEU:HD23	1:P:712:PRO:CB	1.83	1.07
1:A:795:ARG:HD3	3:C:43:ASN:OD1	1.47	1.07
1:D:541:MET:SD	4:9:345:ILE:O	2.12	1.07
1:D:724:TYR:HA	1:D:782:MLY:HD2	1.33	1.07
1:G:72:VAL:HG13	1:G:76:GLN:HB3	1.36	1.07
1:G:409:GLY:N	1:G:636:LYS:HG3	1.69	1.07
1:G:529:PRO:C	4:V:354:GLN:HB3	1.79	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:541:MET:SD	4:W:345:ILE:O	2.13	1.07
1:J:639:GLY:HA2	4:W:345:ILE:HA	1.26	1.07
1:P:641:LYS:HB2	1:P:647:GLN:NE2	1.68	1.07
1:P:803:TYR:O	1:P:807:VAL:HB	0.89	1.07
4:1:203:THR:HB	4:Z:287:ILE:HD13	1.09	1.07
1:A:638:GLY:CA	4:8:341:ILE:O	2.01	1.07
1:A:641:LYS:HD2	1:A:647:GLN:CD	1.70	1.07
1:A:819:ASN:CG	2:B:91:ALA:CA	2.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:638:GLY:CA	4:V:341:ILE:O	2.02	1.07
1:G:829:TRP:CH2	2:H:83:MET:HE3	1.89	1.07
1:J:639:GLY:HA3	4:W:344:SER:C	1.78	1.07
1:P:643:GLY:O	1:P:644:SER:OG	1.69	1.07
4:1:287:ILE:HB	4:3:203:THR:HG22	1.32	1.07
4:X:3:ASP:HA	4:X:6:THR:HB	1.36	1.07
4:X:324:THR:CG2	4:Z:247:VAL:HG22	1.83	1.07
1:A:541:MET:SD	4:8:345:ILE:O	2.12	1.06
1:D:639:GLY:HA3	4:9:344:SER:C	1.78	1.06
1:D:831:TRP:CZ2	2:E:47:LEU:HA	1.89	1.06
1:G:757:GLN:OE1	1:G:772:LEU:O	1.73	1.06
1:J:529:PRO:C	4:W:354:GLN:HB3	1.78	1.06
1:P:72:VAL:HG13	1:P:76:GLN:HB3	1.36	1.06
4:2:290:ARG:NH2	4:4:202:THR:HG23	1.41	1.06
4:5:3:ASP:HA	4:5:6:THR:HB	1.36	1.06
1:A:85:TYR:OH	1:A:772:LEU:HD23	0.89	1.06
2:B:111:SER:HB3	2:B:148:VAL:O	1.49	1.06
1:G:541:MET:SD	4:V:345:ILE:O	2.13	1.06
1:G:553:MLY:HH13	4:X:45:VAL:HG11	1.37	1.06
1:P:529:PRO:HB3	4:0:353:GLN:OE1	1.53	1.06
1:P:639:GLY:HA3	4:0:344:SER:C	1.77	1.06
1:P:783:LEU:CA	1:P:786:ILE:HG13	1.84	1.06
1:A:571:ALA:O	1:A:572:LYS:HG3	1.52	1.06
1:A:643:GLY:O	1:A:644:SER:OG	1.70	1.06
1:D:542:PHE:CG	4:9:143:TYR:HE1	1.73	1.06
1:D:831:TRP:CE2	2:E:47:LEU:HD22	1.89	1.06
1:P:803:TYR:C	1:P:807:VAL:HB	1.81	1.06
4:3:288:ASP:CG	4:5:203:THR:HG21	1.64	1.06
1:A:72:VAL:HG13	1:A:76:GLN:HB3	1.36	1.06
1:D:641:LYS:HE3	4:9:348:SER:O	1.55	1.06
1:J:768:MLY:CH1	1:J:772:LEU:HD12	1.82	1.06
1:D:641:LYS:HB2	1:D:647:GLN:NE2	1.68	1.06
1:G:635:GLY:HA3	4:V:341:ILE:HD13	1.37	1.06
4:X:287:ILE:HG12	4:Z:201:VAL:N	1.69	1.06
1:A:530:MET:CA	4:8:354:GLN:HG3	1.86	1.05
2:B:114:LYS:HA	2:B:146:GLY:O	0.89	1.05
2:B:121:LEU:HG	2:B:128:PHE:CA	1.60	1.05
1:G:571:ALA:O	1:G:572:LYS:HG3	1.52	1.05
1:G:769:ALA:HB3	1:G:770:GLY:HA2	1.32	1.05
1:P:541:MET:SD	4:0:345:ILE:O	2.13	1.05
4:0:288:ASP:CB	4:2:63:GLY:CA	2.31	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:3:ASP:HA	4:1:6:THR:HB	1.36	1.05
4:1:287:ILE:CG2	4:3:202:THR:OG1	2.03	1.05
4:2:322:PRO:HB2	4:4:244:ASP:CB	1.85	1.05
1:D:576:GLU:HG2	1:D:577:ALA:N	1.66	1.05
1:D:795:ARG:HG2	3:F:118:MET:CE	1.86	1.05
1:J:94:MET:O	1:J:713:SER:HB3	0.87	1.05
1:J:530:MET:CA	4:W:354:GLN:HG3	1.87	1.05
2:K:114:LYS:HA	2:K:146:GLY:O	0.89	1.05
2:K:140:PHE:O	2:K:141:PRO:O	1.75	1.05
1:P:409:GLY:N	1:P:636:LYS:HG3	1.69	1.05
4:0:244:ASP:N	4:Y:291:LYS:HE3	1.41	1.05
1:A:502:GLU:HG3	1:A:761:GLY:CA	1.86	1.05
1:A:542:PHE:CG	4:8:143:TYR:HE1	1.73	1.05
1:A:798:LEU:HD11	3:C:126:LEU:CD1	1.87	1.05
2:B:144:VAL:HG11	2:B:153:ILE:HG12	1.38	1.05
2:E:114:LYS:HA	2:E:146:GLY:O	0.89	1.05
2:E:163:ALA:HA	2:K:21:GLU:HB3	1.38	1.05
1:G:707:CYS:SG	1:G:714:ARG:CZ	2.44	1.05
1:G:752:ASP:O	1:G:780:ASP:OD1	1.73	1.05
1:J:72:VAL:HG13	1:J:76:GLN:HB3	1.36	1.05
1:J:641:LYS:HB2	1:J:647:GLN:NE2	1.68	1.05
1:J:817:GLN:CG	2:K:127:ARG:CD	2.33	1.05
1:J:817:GLN:CB	2:K:127:ARG:CD	2.32	1.05
1:P:530:MET:CA	4:0:354:GLN:HG3	1.87	1.05
1:P:817:GLN:OE1	2:Q:127:ARG:HD2	1.55	1.05
4:W:325:MET:CE	4:Y:244:ASP:OD2	2.04	1.05
1:A:149:GLN:HE21	1:A:718:ALA:CB	1.61	1.05
1:A:635:GLY:HA3	4:8:341:ILE:HD13	1.37	1.05
1:A:754:ASP:OD2	1:A:778:MET:CE	2.05	1.05
1:D:72:VAL:HG13	1:D:76:GLN:HB3	1.36	1.05
1:D:530:MET:HE2	4:9:354:GLN:HG2	1.06	1.05
1:D:767:PHE:O	1:D:771:LEU:HD11	1.55	1.05
1:D:831:TRP:HZ2	2:E:47:LEU:CB	1.69	1.05
2:H:114:LYS:HA	2:H:146:GLY:O	0.88	1.05
1:J:534:SER:C	4:W:351:THR:HA	1.81	1.05
1:J:638:GLY:HA2	4:W:341:ILE:O	1.57	1.05
1:P:542:PHE:CG	4:0:143:TYR:HE1	1.73	1.05
1:P:783:LEU:CG	1:P:786:ILE:CD1	2.34	1.05
1:P:804:ARG:CG	1:P:808:GLU:OE2	2.03	1.05
1:P:834:LEU:HD13	2:Q:51:PHE:CE1	1.92	1.05
1:A:823:PHE:CE1	2:B:160:GLY:HA2	1.92	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:767:PHE:C	1:D:771:LEU:HD11	1.67	1.05
2:E:140:PHE:O	2:E:141:PRO:O	1.74	1.05
1:G:534:SER:C	4:V:351:THR:HA	1.82	1.05
1:G:542:PHE:CG	4:V:143:TYR:HE1	1.74	1.05
1:J:641:LYS:HE3	4:W:348:SER:O	1.55	1.05
2:Q:114:LYS:HA	2:Q:146:GLY:O	0.89	1.05
1:A:149:GLN:CB	1:A:718:ALA:HB3	1.86	1.04
1:D:529:PRO:C	4:9:354:GLN:HB3	1.78	1.04
1:D:814:PHE:CA	2:E:127:ARG:NH1	2.17	1.04
1:J:756:THR:CG2	1:J:776:GLU:HA	1.87	1.04
1:J:834:LEU:CD1	2:K:51:PHE:HE1	1.69	1.04
1:P:529:PRO:C	4:0:354:GLN:HB3	1.77	1.04
1:P:804:ARG:O	1:P:808:GLU:HB2	1.55	1.04
2:Q:140:PHE:O	2:Q:141:PRO:O	1.75	1.04
1:A:795:ARG:HH21	3:C:116:GLU:CB	1.70	1.04
1:A:837:MLY:HH21	2:H:20:ASP:HA	1.39	1.04
1:G:553:MLY:CE	4:X:45:VAL:HG11	1.53	1.04
1:G:641:LYS:HD2	1:G:647:GLN:CD	1.70	1.04
1:G:736:GLN:HA	1:G:743:ALA:HB3	1.35	1.04
1:J:505:MLY:HD2	1:J:762:HIS:ND1	1.71	1.04
1:J:542:PHE:CG	4:W:143:TYR:HE1	1.73	1.04
1:P:801:VAL:CG2	3:R:126:LEU:HD21	1.87	1.04
3:R:49:ILE:CA	3:R:52:ASN:HD22	1.71	1.04
1:D:530:MET:CA	4:9:354:GLN:HG3	1.87	1.04
1:D:534:SER:C	4:9:351:THR:HA	1.81	1.04
1:D:638:GLY:HA2	4:9:341:ILE:O	1.57	1.04
2:H:144:VAL:HG13	2:H:153:ILE:HD11	1.21	1.04
2:K:144:VAL:HG11	2:K:153:ILE:HG12	1.37	1.04
1:P:56:GLU:HB2	1:P:59:MLY:HB3	1.40	1.04
1:P:503:TYR:CE1	1:P:711:PHE:CD2	2.44	1.04
1:P:534:SER:C	4:0:351:THR:HA	1.81	1.04
1:P:820:VAL:HG11	2:Q:136:MET:HE1	1.33	1.04
1:A:599:ASN:HA	1:A:649:VAL:HB	1.05	1.04
1:G:819:ASN:HA	2:H:90:GLY:O	0.86	1.04
1:P:508:ILE:CD1	1:P:759:ALA:HB2	1.86	1.04
1:P:641:LYS:HE3	4:0:348:SER:O	1.55	1.04
4:0:244:ASP:N	4:Y:291:LYS:NZ	2.05	1.04
4:8:3:ASP:HA	4:8:6:THR:HB	1.36	1.04
4:Z:3:ASP:HA	4:Z:6:THR:HB	1.36	1.04
1:A:95:THR:OG1	1:A:769:ALA:HA	1.55	1.04
1:A:534:SER:C	4:8:351:THR:HA	1.81	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:PHE:HE2	3:C:126:LEU:HD22	1.19	1.04
1:A:834:LEU:HD22	2:B:54:MET:HE3	1.38	1.04
2:B:150:TYR:C	2:B:151:LYS:HG3	1.83	1.04
1:D:202:SER:CA	1:D:207:LYS:CE	2.36	1.04
1:D:506:GLU:HG3	1:D:764:MLY:HE3	1.38	1.04
1:G:552:ASN:O	4:X:47:MET:CE	2.04	1.04
1:G:829:TRP:CZ3	2:H:84:PHE:CE1	2.46	1.04
3:I:49:ILE:CA	3:I:52:ASN:HD22	1.70	1.04
1:J:576:GLU:HG2	1:J:577:ALA:N	1.66	1.04
1:J:831:TRP:HE1	2:K:67:MET:HB3	1.23	1.04
1:P:84:MLY:HG2	1:P:723:ARG:HD2	1.07	1.04
4:O:110:LEU:O	4:1:195:GLU:HA	1.55	1.04
1:A:813:ILE:CG2	2:B:127:ARG:CD	2.29	1.03
2:E:149:ASP:OD2	2:E:150:TYR:N	1.91	1.03
1:G:530:MET:HE2	4:V:354:GLN:HG2	1.06	1.03
1:G:639:GLY:N	4:V:345:ILE:N	1.94	1.03
1:G:769:ALA:CB	1:G:770:GLY:N	2.21	1.03
1:J:736:GLN:HA	1:J:743:ALA:HB3	1.35	1.03
1:J:819:ASN:CA	2:K:90:GLY:O	2.04	1.03
1:P:505:MLY:HE3	1:P:762:HIS:NE2	1.66	1.03
1:A:721:LYS:CG	1:A:736:GLN:CG	1.97	1.03
1:A:791:GLN:CD	3:C:116:GLU:H	1.66	1.03
1:A:795:ARG:NH2	3:C:116:GLU:CG	2.22	1.03
3:C:49:ILE:CA	3:C:52:ASN:HD22	1.70	1.03
1:D:553:MLY:CB	4:W:46:GLY:CA	2.32	1.03
1:D:736:GLN:HA	1:D:743:ALA:HB3	1.35	1.03
1:D:747:LEU:HD11	1:D:782:MLY:HH21	1.39	1.03
1:G:56:GLU:HB2	1:G:59:MLY:HB3	1.40	1.03
2:H:112:ILE:O	2:H:147:ASN:C	2.01	1.03
2:H:121:LEU:C	2:H:128:PHE:HB3	1.72	1.03
2:H:140:PHE:O	2:H:141:PRO:O	1.75	1.03
1:J:56:GLU:HB2	1:J:59:MLY:HB3	1.40	1.03
1:J:756:THR:HG21	1:J:776:GLU:CA	1.83	1.03
1:J:795:ARG:C	3:L:35:ARG:CZ	2.30	1.03
1:J:831:TRP:HH2	2:K:47:LEU:HD21	1.03	1.03
1:P:736:GLN:HA	1:P:743:ALA:HB3	1.35	1.03
2:Q:111:SER:OG	2:Q:148:VAL:O	1.71	1.03
2:Q:150:TYR:C	2:Q:151:LYS:HG3	1.83	1.03
4:O:201:VAL:H	4:Y:287:ILE:CG1	1.53	1.03
4:7:3:ASP:HA	4:7:6:THR:HB	1.36	1.03
1:A:641:LYS:HG3	1:A:647:GLN:HG3	1.21	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:800:ARG:NH2	3:C:40:ASN:OD1	1.91	1.03
1:A:831:TRP:CH2	2:B:50:THR:HG21	1.87	1.03
2:B:112:ILE:O	2:B:147:ASN:C	2.01	1.03
1:D:732:ILE:HG21	1:D:782:MLY:HH21	1.39	1.03
1:G:503:TYR:OH	1:G:711:PHE:CD2	1.83	1.03
1:G:599:ASN:HA	1:G:649:VAL:HB	1.05	1.03
1:G:826:VAL:HG21	2:H:88:LEU:HD21	1.41	1.03
3:I:49:ILE:HA	3:I:52:ASN:HD22	1.23	1.03
1:J:202:SER:CA	1:J:207:LYS:CE	2.36	1.03
1:J:530:MET:HE2	4:W:354:GLN:HG2	1.06	1.03
2:K:149:ASP:OD2	2:K:150:TYR:N	1.91	1.03
2:Q:117:LEU:CB	2:Q:147:ASN:CG	2.32	1.03
3:R:49:ILE:HA	3:R:52:ASN:HD22	1.23	1.03
1:A:202:SER:CA	1:A:207:LYS:CE	2.36	1.03
1:A:642:LYS:HG3	4:8:23:GLY:H	0.86	1.03
1:A:709:LYS:O	1:A:710:GLY:CA	2.06	1.03
1:D:800:ARG:NH2	3:F:40:ASN:OD1	1.88	1.03
1:D:800:ARG:HH21	3:F:40:ASN:CG	1.61	1.03
1:G:530:MET:CA	4:V:354:GLN:HG3	1.87	1.03
1:G:641:LYS:HE3	4:V:348:SER:O	1.56	1.03
1:G:795:ARG:CB	3:I:118:MET:HE1	1.87	1.03
1:J:817:GLN:HB3	2:K:127:ARG:HD3	1.36	1.03
2:K:112:ILE:O	2:K:147:ASN:C	2.01	1.03
1:P:793:ARG:CZ	3:R:87:PHE:CE1	2.41	1.03
4:1:203:THR:HG22	4:Z:287:ILE:CB	1.87	1.03
1:A:646:PHE:HE2	1:A:652:LEU:HD21	1.24	1.03
1:A:795:ARG:HH21	3:C:116:GLU:HB3	1.21	1.03
2:B:140:PHE:O	2:B:141:PRO:O	1.74	1.03
3:F:49:ILE:HA	3:F:52:ASN:HD22	1.22	1.03
3:F:49:ILE:CA	3:F:52:ASN:HD22	1.70	1.03
2:H:149:ASP:OD2	2:H:150:TYR:N	1.91	1.03
2:K:150:TYR:C	2:K:151:LYS:HG3	1.83	1.03
3:L:49:ILE:CA	3:L:52:ASN:HD22	1.71	1.03
1:P:202:SER:CA	1:P:207:LYS:CE	2.36	1.03
1:P:642:LYS:HG3	4:0:23:GLY:H	0.86	1.03
2:Q:149:ASP:OD2	2:Q:150:TYR:N	1.91	1.03
4:V:3:ASP:HA	4:V:6:THR:HB	1.36	1.03
4:V:324:THR:HG21	4:X:246:GLN:C	1.70	1.03
1:A:93:MET:HG2	1:A:715:VAL:HG22	1.41	1.02
1:A:541:MET:HB3	4:8:143:TYR:OH	1.60	1.02
1:A:638:GLY:HA2	4:8:341:ILE:O	1.56	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:768:MLY:HG2	1:A:771:LEU:HD13	1.41	1.02
1:A:795:ARG:HD2	3:C:35:ARG:NH1	1.73	1.02
1:G:503:TYR:CZ	1:G:711:PHE:CD2	2.46	1.02
2:H:150:TYR:O	2:H:151:LYS:CB	2.06	1.02
1:J:541:MET:HB3	4:W:143:TYR:OH	1.59	1.02
1:J:834:LEU:CD1	2:K:51:PHE:CE1	2.41	1.02
1:P:792:ALA:HA	3:R:42:THR:HG22	1.37	1.02
4:8:290:ARG:CZ	4:V:202:THR:CG2	2.36	1.02
1:A:798:LEU:HD11	3:C:126:LEU:HD11	1.40	1.02
1:A:800:ARG:NH2	3:C:40:ASN:ND2	1.98	1.02
3:C:24:LYS:HG2	3:C:63:ILE:O	1.59	1.02
2:E:144:VAL:HG11	2:E:153:ILE:HG12	1.38	1.02
1:G:642:LYS:HG3	4:V:23:GLY:H	0.85	1.02
2:H:144:VAL:HG11	2:H:153:ILE:HG12	1.38	1.02
2:H:150:TYR:C	2:H:151:LYS:HG3	1.83	1.02
1:J:797:PHE:CE1	3:L:146:ILE:CD1	2.41	1.02
2:K:117:LEU:CB	2:K:147:ASN:CG	2.32	1.02
1:P:541:MET:HB3	4:0:143:TYR:OH	1.59	1.02
1:P:576:GLU:HG2	1:P:577:ALA:N	1.66	1.02
1:P:599:ASN:CA	1:P:649:VAL:HB	1.89	1.02
1:P:635:GLY:HA3	4:0:341:ILE:HD13	1.36	1.02
1:P:725:ARG:NH2	3:R:93:VAL:HG12	1.65	1.02
4:2:3:ASP:HA	4:2:6:THR:HB	1.36	1.02
1:A:502:GLU:HA	1:A:761:GLY:CA	1.89	1.02
1:A:530:MET:HE2	4:8:354:GLN:HG2	1.06	1.02
2:E:112:ILE:O	2:E:147:ASN:C	2.01	1.02
1:G:638:GLY:HA2	4:V:341:ILE:O	1.58	1.02
1:G:736:GLN:N	1:G:743:ALA:CB	2.04	1.02
2:H:117:LEU:CB	2:H:147:ASN:CG	2.32	1.02
1:J:599:ASN:CA	1:J:649:VAL:HB	1.89	1.02
1:J:797:PHE:CD1	3:L:146:ILE:CG2	2.36	1.02
3:L:24:LYS:CG	3:L:63:ILE:O	2.08	1.02
1:P:831:TRP:CZ2	2:Q:47:LEU:HD21	1.90	1.02
4:0:204:ALA:HB3	4:Y:288:ASP:HB2	1.36	1.02
4:7:290:ARG:CZ	4:9:202:THR:CG2	2.36	1.02
4:9:290:ARG:CZ	4:W:202:THR:CG2	2.36	1.02
1:A:641:LYS:HE3	4:8:348:SER:O	1.56	1.02
1:D:642:LYS:HG3	4:9:23:GLY:H	0.86	1.02
1:D:831:TRP:CH2	2:E:47:LEU:HD23	1.95	1.02
1:G:503:TYR:CE1	1:G:711:PHE:CD2	2.47	1.02
1:J:635:GLY:HA3	4:W:341:ILE:HD13	1.36	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:817:GLN:HG2	2:K:127:ARG:HB2	1.06	1.02
1:P:599:ASN:HA	1:P:649:VAL:HB	1.05	1.02
3:R:24:LYS:HG2	3:R:63:ILE:O	1.59	1.02
4:4:3:ASP:HA	4:4:6:THR:HB	1.36	1.02
4:W:3:ASP:HA	4:W:6:THR:HB	1.36	1.02
4:W:325:MET:HE2	4:Y:244:ASP:OD2	1.59	1.02
1:A:798:LEU:CD1	3:C:126:LEU:HD11	1.89	1.02
2:B:149:ASP:OD2	2:B:150:TYR:N	1.91	1.02
2:B:150:TYR:O	2:B:151:LYS:CB	2.07	1.02
1:D:635:GLY:HA3	4:9:341:ILE:HD13	1.37	1.02
2:E:117:LEU:CB	2:E:147:ASN:CG	2.32	1.02
1:G:94:MET:O	1:G:713:SER:CB	2.06	1.02
1:G:769:ALA:O	1:G:773:GLY:CA	2.07	1.02
1:J:98:HIS:HB3	1:J:100:PRO:HD2	1.42	1.02
1:J:834:LEU:HD13	2:K:51:PHE:CE1	1.95	1.02
2:K:144:VAL:HG13	2:K:153:ILE:HD11	1.21	1.02
1:P:831:TRP:CZ3	2:Q:34:ILE:HD13	1.93	1.02
4:0:3:ASP:HA	4:0:6:THR:HB	1.36	1.02
4:1:203:THR:N	4:Z:287:ILE:CB	2.13	1.02
4:1:322:PRO:HB3	4:3:244:ASP:CB	1.90	1.02
4:W:291:LYS:HD2	4:Y:243:PRO:HB2	1.41	1.02
4:Y:3:ASP:HA	4:Y:6:THR:HB	1.36	1.02
1:A:642:LYS:HD3	4:8:340:TRP:CZ3	1.95	1.01
1:A:707:CYS:HA	1:A:714:ARG:NH1	1.75	1.01
2:B:117:LEU:CB	2:B:147:ASN:CG	2.32	1.01
1:D:599:ASN:CA	1:D:649:VAL:HB	1.89	1.01
3:F:24:LYS:HG2	3:F:63:ILE:O	1.59	1.01
1:G:202:SER:CA	1:G:207:LYS:CE	2.36	1.01
1:G:830:PRO:CG	2:H:67:MET:HE2	1.89	1.01
1:J:756:THR:HG22	1:J:776:GLU:CA	1.87	1.01
1:J:813:ILE:HG23	2:K:128:PHE:CE1	1.93	1.01
3:L:49:ILE:HA	3:L:52:ASN:HD22	1.23	1.01
1:P:638:GLY:HA2	4:0:341:ILE:O	1.57	1.01
1:P:641:LYS:CG	4:0:348:SER:HB2	1.87	1.01
1:P:817:GLN:HG2	2:Q:127:ARG:CB	1.89	1.01
1:P:821:ARG:NH2	2:Q:127:ARG:CG	2.23	1.01
2:Q:112:ILE:O	2:Q:147:ASN:C	2.02	1.01
2:Q:121:LEU:HG	2:Q:128:PHE:CA	1.60	1.01
4:7:290:ARG:NH2	4:9:202:THR:CG2	2.23	1.01
4:9:290:ARG:NH2	4:W:202:THR:CG2	2.23	1.01
4:X:287:ILE:C	4:Z:205:GLU:CD	2.27	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:HD3	4:8:340:TRP:CH2	1.95	1.01
3:C:24:LYS:CG	3:C:63:ILE:O	2.08	1.01
1:D:831:TRP:HH2	2:E:47:LEU:HA	1.23	1.01
2:E:150:TYR:O	2:E:151:LYS:CB	2.06	1.01
3:F:24:LYS:CG	3:F:63:ILE:O	2.08	1.01
2:H:121:LEU:HG	2:H:128:PHE:CA	1.60	1.01
1:J:838:ILE:HD11	2:K:54:MET:HE1	1.41	1.01
3:L:24:LYS:HG2	3:L:63:ILE:O	1.59	1.01
1:P:795:ARG:CA	3:R:35:ARG:NH1	2.23	1.01
4:X:324:THR:HG22	4:Z:247:VAL:HG23	1.37	1.01
1:D:553:MLY:HG2	4:W:44:MET:O	1.59	1.01
1:G:821:ARG:HH22	2:H:127:ARG:CG	1.72	1.01
1:J:599:ASN:HA	1:J:649:VAL:HB	1.05	1.01
1:J:641:LYS:CG	1:J:647:GLN:CG	2.16	1.01
1:J:831:TRP:HH2	2:K:47:LEU:CD2	1.61	1.01
1:P:646:PHE:HE2	1:P:652:LEU:HD21	1.24	1.01
3:R:24:LYS:CG	3:R:63:ILE:O	2.08	1.01
4:9:287:ILE:HB	4:W:204:ALA:H	1.25	1.01
1:A:599:ASN:CA	1:A:649:VAL:HB	1.89	1.01
1:A:639:GLY:N	4:8:345:ILE:N	1.94	1.01
3:C:48:LYS:O	3:C:52:ASN:ND2	1.94	1.01
3:C:49:ILE:HA	3:C:52:ASN:HD22	1.22	1.01
1:D:541:MET:HB3	4:9:143:TYR:OH	1.60	1.01
1:G:84:MLY:HD3	1:G:723:ARG:HD3	1.41	1.01
1:G:576:GLU:HG2	1:G:577:ALA:H	0.85	1.01
1:G:641:LYS:HE3	1:G:647:GLN:HB2	1.42	1.01
1:G:829:TRP:HZ3	2:H:84:PHE:CZ	1.79	1.01
1:J:641:LYS:HE3	1:J:647:GLN:HB2	1.42	1.01
3:L:48:LYS:O	3:L:52:ASN:ND2	1.94	1.01
1:P:530:MET:HE2	4:0:354:GLN:HG2	1.06	1.01
1:P:641:LYS:HE3	1:P:647:GLN:HB2	1.42	1.01
2:Q:144:VAL:HG11	2:Q:153:ILE:HG12	1.38	1.01
1:A:206:LYS:HD2	1:A:217:THR:HG23	1.41	1.01
1:A:534:SER:O	4:8:351:THR:HA	1.60	1.01
1:A:813:ILE:HG21	2:B:127:ARG:HD2	1.43	1.01
1:D:206:LYS:HD2	1:D:217:THR:HG23	1.40	1.01
1:D:834:LEU:HD21	2:E:54:MET:HE3	1.40	1.01
1:G:599:ASN:CA	1:G:649:VAL:HB	1.89	1.01
1:G:646:PHE:HE2	1:G:652:LEU:HD21	1.24	1.01
1:G:721:LYS:CA	1:G:736:GLN:CD	2.34	1.01
1:P:793:ARG:HH21	3:R:147:MET:CE	1.71	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:836:PHE:CE1	2:Q:159:HIS:CA	2.44	1.01
4:0:166:TYR:CZ	4:2:64:ILE:CG2	2.44	1.01
4:8:290:ARG:NH2	4:V:202:THR:CG2	2.23	1.01
1:A:28:GLN:HE22	1:A:723:ARG:HH21	1.05	1.00
1:A:721:LYS:CA	1:A:736:GLN:CD	2.34	1.00
1:A:800:ARG:NH2	3:C:40:ASN:CG	2.18	1.00
1:G:796:GLY:HA2	3:I:35:ARG:CD	1.91	1.00
1:J:642:LYS:HG3	4:W:23:GLY:H	0.86	1.00
1:J:646:PHE:HE2	1:J:652:LEU:HD21	1.24	1.00
1:P:98:HIS:HB3	1:P:100:PRO:HD2	1.42	1.00
1:P:505:MLY:CD	1:P:762:HIS:HE2	1.69	1.00
2:Q:150:TYR:O	2:Q:151:LYS:CB	2.06	1.00
1:A:709:LYS:O	1:A:710:GLY:HA3	1.56	1.00
2:B:121:LEU:CB	2:B:128:PHE:HB3	1.69	1.00
1:G:508:ILE:CD1	1:G:759:ALA:HB2	1.92	1.00
1:G:534:SER:O	4:V:351:THR:HA	1.60	1.00
1:J:721:LYS:CA	1:J:736:GLN:CD	2.34	1.00
1:J:793:ARG:NH1	3:L:40:ASN:HD22	1.57	1.00
1:P:642:LYS:HD3	4:0:340:TRP:CZ3	1.96	1.00
1:P:826:VAL:HG21	2:Q:88:LEU:HD21	1.43	1.00
2:Q:121:LEU:CB	2:Q:128:PHE:HB3	1.69	1.00
4:1:203:THR:HG22	4:Z:287:ILE:HB	1.00	1.00
1:A:149:GLN:CD	1:A:718:ALA:HB3	1.86	1.00
1:A:641:LYS:HE3	1:A:647:GLN:HB2	1.42	1.00
1:A:753:VAL:HG12	1:A:775:LEU:CD2	1.92	1.00
1:D:641:LYS:HE3	1:D:647:GLN:HB2	1.43	1.00
1:D:642:LYS:HD3	4:9:340:TRP:CZ3	1.96	1.00
1:D:721:LYS:CA	1:D:736:GLN:CD	2.34	1.00
1:G:215:GLN:CA	1:G:340:ILE:HG23	1.92	1.00
1:G:541:MET:HB3	4:V:143:TYR:OH	1.59	1.00
1:G:576:GLU:CG	1:G:577:ALA:H	1.74	1.00
1:G:642:LYS:HD3	4:V:340:TRP:CH2	1.96	1.00
1:G:642:LYS:HD3	4:V:340:TRP:CZ3	1.96	1.00
1:G:792:ALA:HB2	3:I:42:THR:CA	1.91	1.00
3:I:24:LYS:CG	3:I:63:ILE:O	2.08	1.00
1:J:642:LYS:HD3	4:W:340:TRP:CH2	1.96	1.00
1:J:795:ARG:NE	3:L:116:GLU:OE2	1.95	1.00
1:J:813:ILE:CG2	2:K:128:PHE:CE1	2.44	1.00
1:P:642:LYS:HD3	4:0:340:TRP:CH2	1.95	1.00
1:P:838:ILE:HD11	2:Q:54:MET:HE1	1.02	1.00
4:0:112:PRO:HG3	4:1:196:ARG:N	1.67	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:324:THR:CG2	4:X:247:VAL:N	2.24	1.00
4:X:291:LYS:CE	4:Z:243:PRO:C	2.34	1.00
1:A:641:LYS:HE3	1:A:647:GLN:CB	1.91	1.00
1:D:174:SER:HB3	1:D:667:THR:HG21	1.44	1.00
1:D:553:MLY:HB3	4:W:46:GLY:CA	1.51	1.00
1:D:599:ASN:HA	1:D:649:VAL:HB	1.05	1.00
1:G:641:LYS:HE3	1:G:647:GLN:CB	1.91	1.00
1:J:735:GLY:C	1:J:743:ALA:CA	2.34	1.00
4:0:288:ASP:OD2	4:2:63:GLY:N	1.95	1.00
4:9:3:ASP:HA	4:9:6:THR:HB	1.36	1.00
1:D:56:GLU:HB2	1:D:59:MLY:HB3	1.40	1.00
1:G:552:ASN:O	4:X:47:MET:HE1	1.61	1.00
1:J:174:SER:HB3	1:J:667:THR:HG21	1.44	1.00
1:J:642:LYS:HD3	4:W:340:TRP:CZ3	1.96	1.00
4:1:288:ASP:CG	4:3:203:THR:HG23	1.86	1.00
4:X:291:LYS:HE2	4:Z:243:PRO:C	1.85	1.00
1:A:576:GLU:CG	1:A:577:ALA:H	1.74	1.00
2:E:150:TYR:C	2:E:151:LYS:HG3	1.83	1.00
2:K:141:PRO:HB2	2:K:142:PRO:HD2	1.44	1.00
1:D:218:LEU:CA	1:D:221:GLN:HG3	1.91	1.00
1:D:537:GLU:C	4:9:349:LEU:CD1	2.20	1.00
1:J:206:LYS:HD2	1:J:217:THR:HG23	1.41	1.00
1:J:768:MLY:HH11	1:J:772:LEU:HD12	1.00	1.00
1:A:576:GLU:HG2	1:A:577:ALA:H	0.85	0.99
1:D:735:GLY:C	1:D:743:ALA:CA	2.35	0.99
1:D:834:LEU:HG	2:E:54:MET:HG3	1.40	0.99
1:G:98:HIS:HB3	1:G:100:PRO:HD2	1.42	0.99
1:A:56:GLU:HB2	1:A:59:MLY:HB3	1.40	0.99
1:A:505:MLY:HB3	1:A:762:HIS:H	1.23	0.99
1:A:797:PHE:CE2	3:C:146:ILE:CD1	2.43	0.99
1:D:506:GLU:CG	1:D:764:MLY:HE3	1.92	0.99
1:G:84:MLY:HB3	1:G:723:ARG:HE	1.27	0.99
3:I:24:LYS:HG2	3:I:63:ILE:O	1.59	0.99
3:I:48:LYS:O	3:I:52:ASN:ND2	1.94	0.99
1:P:93:MET:SD	1:P:715:VAL:HA	2.02	0.99
4:V:286:ASP:CG	4:X:203:THR:HG22	1.87	0.99
1:A:93:MET:CG	1:A:715:VAL:HG22	1.91	0.99
1:A:501:GLU:CG	1:A:762:HIS:HD1	1.73	0.99
1:A:735:GLY:C	1:A:743:ALA:CA	2.34	0.99
1:D:534:SER:O	4:9:351:THR:HA	1.59	0.99
1:D:642:LYS:HD3	4:9:340:TRP:CH2	1.96	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:799:MET:SD	3:F:32:ASP:HA	1.98	0.99
1:G:735:GLY:C	1:G:743:ALA:CA	2.34	0.99
1:P:174:SER:HB3	1:P:667:THR:HG21	1.44	0.99
1:P:206:LYS:HD2	1:P:217:THR:HG23	1.41	0.99
2:Q:139:ALA:O	2:Q:141:PRO:HD3	1.62	0.99
4:1:244:ASP:CB	4:Z:322:PRO:HB3	1.92	0.99
4:8:322:PRO:HB3	4:V:244:ASP:OD2	1.62	0.99
1:A:553:MLY:HG2	4:V:44:MET:O	1.59	0.99
1:A:612:GLN:HE22	1:A:627:GLY:CA	1.75	0.99
1:D:795:ARG:NH2	3:F:116:GLU:CG	2.25	0.99
1:G:649:VAL:CG1	1:G:649:VAL:HG22	1.92	0.99
1:G:754:ASP:CB	1:G:776:GLU:HA	1.91	0.99
1:J:218:LEU:CA	1:J:221:GLN:HG3	1.91	0.99
2:K:150:TYR:O	2:K:151:LYS:CB	2.06	0.99
4:3:288:ASP:N	4:5:203:THR:HG22	1.75	0.99
1:A:93:MET:HE2	1:A:715:VAL:CB	1.91	0.99
3:F:48:LYS:O	3:F:52:ASN:ND2	1.94	0.99
1:P:721:LYS:CA	1:P:736:GLN:CD	2.34	0.99
4:8:286:ASP:OD1	4:V:203:THR:HG22	1.62	0.99
1:A:98:HIS:HB3	1:A:100:PRO:HD2	1.42	0.99
1:A:218:LEU:CA	1:A:221:GLN:HG3	1.91	0.99
2:B:149:ASP:OD2	2:B:150:TYR:O	1.80	0.99
1:D:612:GLN:HE22	1:D:627:GLY:CA	1.75	0.99
1:G:93:MET:CE	1:G:764:MLY:HD3	1.93	0.99
1:G:757:GLN:CG	1:G:776:GLU:CG	1.99	0.99
1:P:641:LYS:HE3	1:P:647:GLN:CB	1.91	0.99
4:X:287:ILE:CG1	4:Z:201:VAL:HG23	1.91	0.99
1:D:98:HIS:HB3	1:D:100:PRO:HD2	1.42	0.99
1:D:830:PRO:HG2	2:E:67:MET:CE	1.93	0.99
1:G:206:LYS:HD2	1:G:217:THR:HG23	1.41	0.99
1:P:218:LEU:CA	1:P:221:GLN:HG3	1.91	0.99
2:Q:149:ASP:OD2	2:Q:150:TYR:O	1.80	0.99
4:0:204:ALA:CB	4:Y:288:ASP:HB2	1.91	0.99
4:0:243:PRO:CA	4:Y:291:LYS:HE3	1.93	0.99
1:A:505:MLY:HG2	1:A:762:HIS:CD2	1.97	0.99
1:D:576:GLU:HG2	1:D:577:ALA:H	0.85	0.99
1:G:218:LEU:CA	1:G:221:GLN:HG3	1.91	0.99
1:G:821:ARG:HH22	2:H:127:ARG:HG2	0.91	0.99
1:P:735:GLY:C	1:P:743:ALA:CA	2.34	0.99
4:2:287:ILE:HD13	4:4:203:THR:HB	1.42	0.99
1:G:829:TRP:CZ3	2:H:87:LYS:NZ	2.30	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:149:ASP:OD2	2:H:150:TYR:O	1.80	0.99
1:J:215:GLN:CA	1:J:340:ILE:HG23	1.92	0.99
1:J:641:LYS:HE3	1:J:647:GLN:CB	1.91	0.99
1:A:215:GLN:CA	1:A:340:ILE:HG23	1.92	0.99
1:A:576:GLU:HG2	1:A:577:ALA:N	1.66	0.99
1:A:639:GLY:CA	4:8:345:ILE:CA	2.41	0.99
1:D:649:VAL:CG1	1:D:649:VAL:HG22	1.92	0.99
1:P:503:TYR:CZ	1:P:711:PHE:HD2	1.80	0.99
1:A:498:LEU:HD21	1:A:764:MLY:HH22	1.40	0.98
1:A:795:ARG:CZ	3:C:116:GLU:CD	2.28	0.98
1:G:530:MET:CE	4:V:354:GLN:CG	2.39	0.98
2:H:139:ALA:O	2:H:141:PRO:HD3	1.62	0.98
1:P:649:VAL:CG1	1:P:649:VAL:HG22	1.92	0.98
3:R:52:ASN:HB2	3:R:53:PRO:HD3	1.46	0.98
1:A:530:MET:CE	4:8:354:GLN:CG	2.41	0.98
2:B:141:PRO:HB2	2:B:142:PRO:HD2	1.44	0.98
1:D:641:LYS:HE3	1:D:647:GLN:CB	1.91	0.98
1:D:797:PHE:CG	3:F:146:ILE:HG23	1.97	0.98
1:G:639:GLY:CA	4:V:345:ILE:CA	2.40	0.98
1:G:795:ARG:HG2	3:I:118:MET:HE1	1.03	0.98
1:G:829:TRP:CZ2	2:H:83:MET:HE3	1.97	0.98
1:J:649:VAL:CG1	1:J:649:VAL:HG22	1.92	0.98
1:P:753:VAL:HG11	1:P:775:LEU:HD11	1.43	0.98
4:2:324:THR:HG21	4:4:244:ASP:O	1.59	0.98
4:3:322:PRO:CB	4:5:244:ASP:CB	2.40	0.98
4:8:287:ILE:HB	4:V:204:ALA:H	1.25	0.98
4:9:286:ASP:OD1	4:W:203:THR:HG22	1.62	0.98
1:D:795:ARG:NE	3:F:116:GLU:OE2	1.96	0.98
1:G:612:GLN:HE22	1:G:627:GLY:CA	1.75	0.98
1:P:817:GLN:HG2	2:Q:127:ARG:HB2	1.45	0.98
4:0:288:ASP:OD2	4:2:63:GLY:CA	2.11	0.98
4:1:203:THR:HG21	4:Z:288:ASP:OD2	1.61	0.98
4:1:287:ILE:HD13	4:3:203:THR:CB	1.93	0.98
1:A:649:VAL:CG1	1:A:649:VAL:HG22	1.92	0.98
1:D:576:GLU:CG	1:D:577:ALA:H	1.75	0.98
3:F:52:ASN:HB2	3:F:53:PRO:HD3	1.45	0.98
1:G:795:ARG:CA	3:I:118:MET:CE	2.37	0.98
1:J:95:THR:HA	1:J:713:SER:CB	1.93	0.98
1:J:553:MLY:HE3	4:Y:45:VAL:CG1	1.92	0.98
1:J:795:ARG:C	3:L:35:ARG:NH2	2.21	0.98
2:K:149:ASP:OD2	2:K:150:TYR:O	1.80	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:612:GLN:HE22	1:P:627:GLY:CA	1.76	0.98
4:1:204:ALA:H	4:Z:287:ILE:HG21	1.28	0.98
2:B:130:PRO:O	2:B:133:ILE:N	1.96	0.98
1:D:215:GLN:CA	1:D:340:ILE:HG23	1.92	0.98
1:G:93:MET:HA	1:G:714:ARG:N	1.77	0.98
1:J:505:MLY:HD2	1:J:762:HIS:HE1	1.27	0.98
1:J:818:TYR:OH	2:K:127:ARG:NH2	1.94	0.98
1:P:215:GLN:CA	1:P:340:ILE:HG23	1.92	0.98
4:7:287:ILE:HB	4:9:204:ALA:H	1.25	0.98
1:P:736:GLN:N	1:P:743:ALA:CB	2.05	0.98
3:R:48:LYS:O	3:R:52:ASN:ND2	1.94	0.98
4:1:324:THR:OG1	4:3:244:ASP:CA	2.12	0.98
4:7:322:PRO:HB3	4:9:244:ASP:OD2	1.62	0.98
1:A:797:PHE:HD1	3:C:146:ILE:O	1.35	0.98
1:A:818:TYR:HB2	2:B:90:GLY:HA3	0.98	0.98
1:D:795:ARG:HB3	3:F:35:ARG:NH2	1.79	0.98
1:G:784:ALA:O	1:G:788:THR:N	1.96	0.98
1:G:795:ARG:HA	3:I:118:MET:HE1	1.34	0.98
1:J:506:GLU:OE2	1:J:761:GLY:CA	2.11	0.98
1:J:537:GLU:C	4:W:349:LEU:CD1	2.20	0.98
1:J:576:GLU:HG2	1:J:577:ALA:H	0.85	0.98
1:G:821:ARG:NH2	2:H:127:ARG:CG	2.26	0.98
4:0:244:ASP:N	4:Y:291:LYS:CE	0.85	0.98
4:V:325:MET:CE	4:X:244:ASP:CG	2.37	0.98
2:B:117:LEU:HD13	2:B:147:ASN:OD1	1.64	0.98
2:B:139:ALA:O	2:B:141:PRO:HD3	1.62	0.98
1:D:642:LYS:HD2	4:9:24:ASP:O	1.64	0.98
1:G:28:GLN:HB3	1:G:723:ARG:HH12	0.82	0.98
1:P:734:GLU:HG3	3:R:93:VAL:CG2	1.93	0.98
1:G:553:MLY:CE	4:X:45:VAL:HB	1.91	0.98
1:J:84:MLY:CH2	1:J:720:PHE:CA	2.34	0.98
1:P:530:MET:CE	4:0:354:GLN:CG	2.40	0.98
1:A:795:ARG:HH21	3:C:116:GLU:CG	1.75	0.97
1:D:646:PHE:HE2	1:D:652:LEU:HD21	1.24	0.97
2:E:149:ASP:CG	2:E:150:TYR:H	1.72	0.97
1:G:752:ASP:C	1:G:780:ASP:OD1	2.07	0.97
1:P:576:GLU:HG2	1:P:577:ALA:H	0.85	0.97
3:R:46:ILE:O	3:R:50:LEU:HG	1.64	0.97
4:2:322:PRO:CB	4:4:244:ASP:CG	2.37	0.97
1:A:174:SER:HB3	1:A:667:THR:HG21	1.44	0.97
1:D:218:LEU:CA	1:D:221:GLN:CG	2.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:641:LYS:HG3	1:D:647:GLN:NE2	1.59	0.97
1:J:612:GLN:HE22	1:J:627:GLY:CA	1.76	0.97
2:K:139:ALA:O	2:K:141:PRO:HD3	1.62	0.97
1:P:818:TYR:CE1	2:Q:127:ARG:CZ	2.46	0.97
1:A:218:LEU:CA	1:A:221:GLN:CG	2.42	0.97
2:E:149:ASP:OD2	2:E:150:TYR:O	1.80	0.97
1:J:534:SER:O	4:W:351:THR:HA	1.59	0.97
1:J:754:ASP:C	1:J:780:ASP:OD2	2.07	0.97
1:P:542:PHE:CG	4:O:143:TYR:CE1	2.53	0.97
1:P:708:ARG:HA	1:P:712:PRO:HG3	1.43	0.97
1:P:793:ARG:NE	3:R:87:PHE:CE1	2.31	0.97
1:A:542:PHE:CG	4:8:143:TYR:CE1	2.52	0.97
2:B:144:VAL:HG13	2:B:153:ILE:HD11	1.21	0.97
1:J:557:GLU:HA	4:Y:47:MET:HA	1.04	0.97
1:J:641:LYS:HG3	1:J:647:GLN:NE2	1.59	0.97
1:P:576:GLU:CG	1:P:577:ALA:H	1.75	0.97
1:A:93:MET:CE	1:A:715:VAL:HG13	1.94	0.97
1:D:507:GLY:HA3	1:D:762:HIS:CG	1.99	0.97
1:G:537:GLU:C	4:V:349:LEU:CD1	2.21	0.97
3:L:46:ILE:O	3:L:50:LEU:HG	1.64	0.97
1:P:639:GLY:CA	4:O:345:ILE:CA	2.40	0.97
4:7:286:ASP:OD1	4:9:203:THR:HG22	1.62	0.97
1:A:642:LYS:HG2	4:8:21:PHE:O	1.65	0.97
1:D:747:LEU:CD1	1:D:782:MLY:HH21	1.93	0.97
1:D:815:CYS:SG	2:E:92:ASP:CB	2.52	0.97
1:D:834:LEU:CD2	2:E:54:MET:HE3	1.92	0.97
1:G:576:GLU:HG2	1:G:577:ALA:N	1.66	0.97
2:H:121:LEU:HG	2:H:128:PHE:HA	1.47	0.97
1:J:218:LEU:CA	1:J:221:GLN:CG	2.42	0.97
1:P:649:VAL:CG2	1:P:649:VAL:CA	2.42	0.97
1:A:149:GLN:OE1	1:A:716:LEU:HD23	0.80	0.97
3:C:52:ASN:HB2	3:C:53:PRO:HD3	1.45	0.97
1:D:549:SER:C	4:W:46:GLY:HA3	1.89	0.97
1:D:831:TRP:CH2	2:E:34:ILE:HG23	1.99	0.97
2:H:130:PRO:O	2:H:133:ILE:N	1.96	0.97
1:J:642:LYS:HG2	4:W:21:PHE:O	1.65	0.97
2:Q:130:PRO:O	2:Q:133:ILE:N	1.96	0.97
4:1:202:THR:HB	4:Z:287:ILE:CB	1.94	0.97
1:A:215:GLN:H	1:A:340:ILE:CG1	1.73	0.97
1:G:174:SER:HB3	1:G:667:THR:HG21	1.44	0.97
1:J:797:PHE:CE2	3:L:126:LEU:HD22	2.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:508:ILE:CD1	1:P:759:ALA:CB	2.42	0.97
2:B:150:TYR:O	2:B:151:LYS:HG3	1.65	0.97
1:D:831:TRP:NE1	2:E:67:MET:SD	2.37	0.97
2:E:121:LEU:HG	2:E:128:PHE:CA	1.59	0.97
1:G:752:ASP:O	1:G:780:ASP:CA	2.12	0.97
1:J:213:LYS:HA	1:J:220:ASP:CG	1.90	0.97
1:J:505:MLY:CD	1:J:762:HIS:HE1	1.77	0.97
4:3:287:ILE:HD13	4:5:203:THR:CB	1.92	0.97
4:3:324:THR:HG23	4:5:244:ASP:C	1.86	0.97
1:A:641:LYS:HG3	1:A:647:GLN:NE2	1.58	0.97
1:A:819:ASN:HD21	2:B:92:ASP:N	1.56	0.97
1:D:542:PHE:CG	4:9:143:TYR:CE1	2.52	0.97
1:D:793:ARG:HH21	3:F:147:MET:HE3	1.27	0.97
2:E:141:PRO:HB2	2:E:142:PRO:HD2	1.44	0.97
1:G:218:LEU:CA	1:G:221:GLN:CG	2.42	0.97
1:G:635:GLY:HA3	4:V:334:GLU:HG2	1.46	0.97
1:G:642:LYS:HG2	4:V:21:PHE:O	1.65	0.97
2:K:130:PRO:O	2:K:133:ILE:N	1.96	0.97
4:W:286:ASP:OD2	4:Y:203:THR:HG22	1.62	0.97
2:E:139:ALA:O	2:E:141:PRO:HD3	1.62	0.96
1:J:576:GLU:CG	1:J:577:ALA:H	1.75	0.96
1:J:639:GLY:CA	4:W:345:ILE:CA	2.40	0.96
1:J:639:GLY:N	4:W:345:ILE:N	1.94	0.96
1:J:649:VAL:CG2	1:J:649:VAL:CA	2.43	0.96
2:K:121:LEU:HG	2:K:128:PHE:CA	1.59	0.96
1:A:534:SER:O	4:8:351:THR:HG23	1.13	0.96
1:D:553:MLY:HB3	4:W:46:GLY:HA2	1.47	0.96
1:P:537:GLU:C	4:0:349:LEU:CD1	2.20	0.96
1:P:838:ILE:HD12	2:Q:54:MET:HE3	1.47	0.96
2:Q:141:PRO:HB2	2:Q:142:PRO:HD2	1.44	0.96
4:3:288:ASP:H	4:5:203:THR:HG22	1.29	0.96
4:9:322:PRO:HB3	4:W:244:ASP:OD2	1.62	0.96
1:G:637:LYS:NZ	4:V:141:SER:O	1.99	0.96
3:I:46:ILE:O	3:I:50:LEU:HG	1.64	0.96
1:J:553:MLY:HE3	4:Y:45:VAL:HG11	1.47	0.96
1:J:735:GLY:C	1:J:743:ALA:HA	1.90	0.96
2:K:117:LEU:HD13	2:K:147:ASN:OD1	1.64	0.96
1:P:783:LEU:HA	1:P:786:ILE:HG13	0.97	0.96
4:3:322:PRO:HB2	4:5:244:ASP:CB	1.95	0.96
1:A:649:VAL:CG2	1:A:649:VAL:CA	2.43	0.96
1:A:795:ARG:CG	3:C:35:ARG:HH12	1.79	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:736:GLN:CA	1:G:743:ALA:HB2	1.95	0.96
1:P:92:ALA:O	1:P:713:SER:HA	1.65	0.96
4:1:287:ILE:CG2	4:3:204:ALA:H	1.78	0.96
4:X:324:THR:HG22	4:Z:247:VAL:HG22	1.00	0.96
1:A:505:MLY:CA	1:A:762:HIS:CD2	2.48	0.96
1:D:206:LYS:CD	1:D:217:THR:CG2	2.16	0.96
1:D:639:GLY:CA	4:9:345:ILE:CA	2.40	0.96
3:I:52:ASN:HB2	3:I:53:PRO:HD3	1.46	0.96
1:P:649:VAL:CG1	1:P:649:VAL:C	2.38	0.96
1:P:733:PRO:HB2	3:R:93:VAL:CG1	1.95	0.96
2:Q:150:TYR:O	2:Q:151:LYS:HG3	1.65	0.96
4:1:288:ASP:OD2	4:3:203:THR:CG2	2.06	0.96
4:W:325:MET:CE	4:Y:244:ASP:CG	2.37	0.96
1:A:642:LYS:HD2	4:8:24:ASP:O	1.64	0.96
1:A:649:VAL:CG1	1:A:649:VAL:CG2	2.43	0.96
1:D:736:GLN:CA	1:D:743:ALA:HB2	1.95	0.96
1:G:206:LYS:CD	1:G:217:THR:CG2	2.16	0.96
1:G:508:ILE:HD11	1:G:759:ALA:HB2	0.98	0.96
1:J:543:PRO:CG	4:W:143:TYR:O	2.14	0.96
1:P:641:LYS:HG3	1:P:647:GLN:NE2	1.59	0.96
4:1:203:THR:CG2	4:Z:288:ASP:CG	2.37	0.96
4:V:325:MET:HE2	4:X:244:ASP:OD2	1.64	0.96
1:A:649:VAL:CG1	1:A:649:VAL:C	2.38	0.96
1:D:215:GLN:H	1:D:340:ILE:CG1	1.73	0.96
1:D:292:MET:HE1	1:D:309:PRO:HA	1.47	0.96
1:D:649:VAL:CG2	1:D:649:VAL:CA	2.42	0.96
1:G:735:GLY:C	1:G:743:ALA:HA	1.90	0.96
1:J:642:LYS:HD2	4:W:24:ASP:O	1.65	0.96
1:J:756:THR:HG22	1:J:776:GLU:CG	1.95	0.96
1:J:819:ASN:CG	2:K:92:ASP:CB	2.38	0.96
1:J:821:ARG:NH2	2:K:127:ARG:CG	2.29	0.96
1:P:218:LEU:CA	1:P:221:GLN:CG	2.42	0.96
1:A:93:MET:SD	1:A:715:VAL:HG22	2.04	0.96
1:A:538:GLU:N	4:8:349:LEU:CD1	2.28	0.96
1:D:213:LYS:HA	1:D:220:ASP:CG	1.90	0.96
1:D:642:LYS:HG2	4:9:21:PHE:O	1.65	0.96
1:D:649:VAL:CG1	1:D:649:VAL:C	2.38	0.96
1:G:642:LYS:HD2	4:V:24:ASP:O	1.64	0.96
2:H:141:PRO:HB2	2:H:142:PRO:HD2	1.44	0.96
2:K:121:LEU:HG	2:K:128:PHE:HA	1.47	0.96
1:P:97:LEU:HD23	1:P:712:PRO:HB3	0.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:GLU:OE2	1:A:761:GLY:N	1.82	0.96
1:A:635:GLY:HA3	4:8:334:GLU:HG2	1.47	0.96
1:A:797:PHE:HZ	3:C:146:ILE:HD13	1.26	0.96
1:D:506:GLU:CG	1:D:764:MLY:CE	2.43	0.96
1:D:795:ARG:HH21	3:F:116:GLU:CG	1.79	0.96
1:D:819:ASN:CB	2:E:90:GLY:O	2.14	0.96
1:G:649:VAL:CG2	1:G:649:VAL:CA	2.42	0.96
1:J:542:PHE:CG	4:W:143:TYR:CE1	2.53	0.96
1:P:792:ALA:CA	3:R:42:THR:CG2	2.43	0.96
4:8:288:ASP:HA	4:V:204:ALA:HB2	1.48	0.96
4:9:288:ASP:HA	4:W:204:ALA:HB2	1.48	0.96
1:A:831:TRP:HZ3	2:B:50:THR:CG2	1.56	0.96
1:P:637:LYS:NZ	4:0:141:SER:O	1.99	0.96
1:P:735:GLY:C	1:P:743:ALA:HA	1.90	0.96
1:D:813:ILE:HG23	2:E:128:PHE:CZ	2.01	0.95
1:G:410:ASN:OD1	4:V:334:GLU:C	2.09	0.95
1:G:538:GLU:HG3	4:V:352:PHE:N	1.81	0.95
1:G:838:ILE:HD12	2:H:54:MET:HE3	1.46	0.95
2:H:149:ASP:CG	2:H:150:TYR:H	1.73	0.95
1:J:756:THR:CA	1:J:776:GLU:OE1	2.13	0.95
2:K:150:TYR:O	2:K:151:LYS:HG3	1.65	0.95
1:P:543:PRO:CG	4:0:143:TYR:O	2.14	0.95
1:A:549:SER:C	4:V:46:GLY:HA3	1.90	0.95
1:A:637:LYS:NZ	4:8:141:SER:O	1.99	0.95
1:G:649:VAL:CG1	1:G:649:VAL:C	2.38	0.95
1:J:649:VAL:CG1	1:J:649:VAL:CG2	2.43	0.95
4:0:199:SER:O	4:Y:287:ILE:HG21	1.65	0.95
4:1:287:ILE:CG1	4:3:202:THR:HA	1.92	0.95
1:D:538:GLU:N	4:9:349:LEU:CD1	2.28	0.95
1:G:148:ARG:CZ	1:G:764:MLY:HH21	1.95	0.95
1:G:213:LYS:HA	1:G:220:ASP:CG	1.90	0.95
1:G:813:ILE:CG2	2:H:128:PHE:CE1	2.49	0.95
1:J:84:MLY:CH1	1:J:720:PHE:CE1	2.45	0.95
1:J:649:VAL:CG1	1:J:649:VAL:C	2.38	0.95
1:P:797:PHE:CE2	3:R:126:LEU:HD13	1.99	0.95
4:0:112:PRO:HB3	4:1:196:ARG:HA	1.00	0.95
1:A:831:TRP:CZ3	2:B:34:ILE:HG12	2.01	0.95
3:C:46:ILE:O	3:C:50:LEU:HG	1.65	0.95
1:G:542:PHE:CG	4:V:143:TYR:CE1	2.53	0.95
1:G:757:GLN:CG	1:G:776:GLU:CD	2.39	0.95
1:J:783:LEU:O	1:J:787:ILE:N	1.99	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:642:LYS:HG2	4:0:21:PHE:O	1.65	0.95
4:7:288:ASP:HA	4:9:204:ALA:HB2	1.48	0.95
4:W:325:MET:HE1	4:Y:244:ASP:CG	1.90	0.95
1:A:213:LYS:HA	1:A:220:ASP:CG	1.90	0.95
1:A:537:GLU:C	4:8:349:LEU:CD1	2.20	0.95
1:A:735:GLY:C	1:A:743:ALA:HA	1.90	0.95
1:D:649:VAL:CG1	1:D:649:VAL:CG2	2.43	0.95
1:D:813:ILE:HG23	2:E:128:PHE:CE1	2.00	0.95
1:G:546:THR:HG22	1:G:548:THR:H	1.32	0.95
1:G:649:VAL:CG1	1:G:649:VAL:CG2	2.43	0.95
4:2:288:ASP:N	4:4:203:THR:HG22	1.80	0.95
1:A:502:GLU:CB	1:A:761:GLY:HA3	1.97	0.95
1:D:543:PRO:CG	4:9:143:TYR:O	2.14	0.95
2:E:130:PRO:O	2:E:133:ILE:N	1.96	0.95
3:F:46:ILE:O	3:F:50:LEU:HG	1.65	0.95
1:G:530:MET:HA	4:V:354:GLN:HG3	0.97	0.95
1:J:637:LYS:NZ	4:W:141:SER:O	1.98	0.95
1:J:817:GLN:OE1	2:K:127:ARG:HD2	1.65	0.95
1:J:836:PHE:CZ	2:K:160:GLY:N	2.34	0.95
1:P:534:SER:O	4:0:351:THR:HA	1.60	0.95
1:P:538:GLU:HG3	4:0:352:PHE:N	1.81	0.95
1:P:649:VAL:CG1	1:P:649:VAL:CG2	2.43	0.95
4:1:244:ASP:HB3	4:Z:322:PRO:HB3	1.48	0.95
1:J:538:GLU:N	4:W:349:LEU:CD1	2.28	0.95
1:J:820:VAL:HG11	2:K:136:MET:HE3	1.47	0.95
1:P:786:ILE:C	1:P:788:THR:OG1	2.10	0.95
1:P:800:ARG:HD3	3:R:149:VAL:O	1.66	0.95
1:A:206:LYS:CD	1:A:217:THR:CG2	2.16	0.95
1:A:818:TYR:CB	2:B:90:GLY:HA3	1.93	0.95
1:D:641:LYS:HD2	1:D:647:GLN:CD	1.70	0.95
2:E:117:LEU:HD13	2:E:147:ASN:OD1	1.64	0.95
2:H:150:TYR:O	2:H:151:LYS:HG3	1.65	0.95
1:J:829:TRP:CH2	2:K:87:LYS:HE2	2.01	0.95
1:A:538:GLU:HG3	4:8:352:PHE:N	1.82	0.95
1:A:541:MET:N	4:8:349:LEU:HD21	1.80	0.95
2:B:54:MET:CA	2:H:21:GLU:OE1	2.14	0.95
1:D:215:GLN:HA	1:D:340:ILE:HG23	0.95	0.95
1:G:292:MET:HE1	1:G:309:PRO:HA	1.47	0.95
1:G:538:GLU:N	4:V:349:LEU:CD1	2.29	0.95
3:L:52:ASN:HB2	3:L:53:PRO:HD3	1.45	0.95
1:P:213:LYS:HA	1:P:220:ASP:CG	1.90	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:410:ASN:OD1	4:0:334:GLU:C	2.10	0.95
1:P:799:MET:HB2	3:R:35:ARG:CD	1.94	0.95
1:P:821:ARG:HH22	2:Q:127:ARG:HG2	1.17	0.95
1:A:791:GLN:HE22	3:C:115:GLY:CA	1.79	0.95
1:D:541:MET:N	4:9:349:LEU:HD21	1.80	0.95
2:H:121:LEU:CB	2:H:128:PHE:HB3	1.69	0.95
2:H:150:TYR:O	2:H:151:LYS:HB2	1.67	0.95
1:J:538:GLU:HG3	4:W:352:PHE:N	1.81	0.95
1:P:538:GLU:N	4:0:349:LEU:CD1	2.28	0.95
1:P:630:ALA:O	4:0:25:ASP:CG	2.09	0.95
4:0:288:ASP:CB	4:2:63:GLY:H	1.80	0.95
4:1:322:PRO:CB	4:3:244:ASP:CB	2.44	0.95
1:A:530:MET:CA	4:8:354:GLN:CG	2.44	0.94
1:A:543:PRO:CG	4:8:143:TYR:O	2.14	0.94
1:D:815:CYS:SG	2:E:92:ASP:CG	2.50	0.94
1:G:641:LYS:HG3	1:G:647:GLN:NE2	1.58	0.94
2:H:117:LEU:HD13	2:H:147:ASN:OD1	1.64	0.94
2:H:150:TYR:O	2:H:151:LYS:CG	2.15	0.94
1:J:736:GLN:CA	1:J:743:ALA:HB2	1.95	0.94
2:K:150:TYR:O	2:K:151:LYS:CG	2.15	0.94
1:P:552:ASN:ND2	4:2:49:GLN:HB3	1.73	0.94
1:P:642:LYS:CG	4:0:23:GLY:H	1.77	0.94
2:Q:150:TYR:O	2:Q:151:LYS:HB2	1.67	0.94
1:D:538:GLU:HG3	4:9:352:PHE:N	1.81	0.94
1:D:735:GLY:C	1:D:743:ALA:HA	1.91	0.94
1:J:410:ASN:OD1	4:W:334:GLU:C	2.10	0.94
1:P:642:LYS:HD2	4:0:24:ASP:O	1.65	0.94
4:0:112:PRO:CB	4:1:196:ARG:HA	1.87	0.94
1:A:530:MET:HA	4:8:354:GLN:HG3	0.96	0.94
1:A:553:MLY:HB3	4:V:46:GLY:HA2	1.47	0.94
1:D:530:MET:HA	4:9:354:GLN:HG3	0.96	0.94
1:D:635:GLY:HA3	4:9:334:GLU:HG2	1.47	0.94
1:G:791:GLN:HE21	3:I:115:GLY:HA3	1.21	0.94
4:1:204:ALA:H	4:Z:287:ILE:CG2	1.81	0.94
4:3:322:PRO:HB2	4:5:244:ASP:HB3	1.49	0.94
1:A:149:GLN:HB3	1:A:718:ALA:C	1.93	0.94
1:A:799:MET:SD	3:C:32:ASP:HA	2.08	0.94
2:E:150:TYR:O	2:E:151:LYS:CG	2.15	0.94
2:E:150:TYR:O	2:E:151:LYS:HB2	1.67	0.94
1:G:642:LYS:CG	4:V:23:GLY:H	1.76	0.94
1:G:708:ARG:HA	1:G:712:PRO:HG3	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:ALA:CB	3:I:42:THR:CA	2.44	0.94
1:J:292:MET:HE1	1:J:309:PRO:HA	1.48	0.94
1:P:530:MET:HA	4:0:354:GLN:HG3	0.96	0.94
1:P:736:GLN:CA	1:P:743:ALA:HB2	1.95	0.94
1:P:834:LEU:HD13	2:Q:51:PHE:HE1	1.28	0.94
4:1:203:THR:HB	4:Z:287:ILE:CD1	1.96	0.94
4:2:324:THR:HB	4:4:243:PRO:O	1.14	0.94
1:A:410:ASN:OD1	4:8:334:GLU:C	2.11	0.94
1:D:637:LYS:NZ	4:9:141:SER:O	1.99	0.94
2:E:144:VAL:HG13	2:E:153:ILE:HD11	1.21	0.94
1:J:635:GLY:HA3	4:W:334:GLU:HG2	1.47	0.94
1:P:725:ARG:HH21	3:R:93:VAL:HG11	0.80	0.94
1:P:797:PHE:CD1	3:R:146:ILE:HG21	2.03	0.94
4:0:166:TYR:OH	4:2:64:ILE:CG2	2.15	0.94
1:A:557:GLU:N	4:V:48:GLY:CA	2.12	0.94
1:A:823:PHE:HE1	2:B:160:GLY:CA	1.80	0.94
1:G:94:MET:C	1:G:713:SER:HB3	1.92	0.94
1:G:218:LEU:CB	1:G:221:GLN:CG	2.45	0.94
1:G:829:TRP:HZ3	2:H:84:PHE:CE1	1.82	0.94
1:J:793:ARG:HH11	3:L:40:ASN:HD22	1.10	0.94
1:P:292:MET:HE1	1:P:309:PRO:HA	1.48	0.94
1:A:642:LYS:CG	4:8:23:GLY:H	1.77	0.94
1:A:836:PHE:HZ	2:B:160:GLY:H	0.95	0.94
1:D:546:THR:HG22	1:D:548:THR:H	1.32	0.94
1:J:505:MLY:HG3	1:J:762:HIS:CE1	2.03	0.94
1:P:635:GLY:HA3	4:0:334:GLU:HG2	1.47	0.94
1:A:505:MLY:HH21	1:A:762:HIS:O	1.67	0.94
1:A:612:GLN:NE2	1:A:627:GLY:HA3	1.83	0.94
2:B:149:ASP:CG	2:B:150:TYR:H	1.73	0.94
2:B:150:TYR:O	2:B:151:LYS:HB2	1.67	0.94
1:D:410:ASN:OD1	4:9:334:GLU:C	2.10	0.94
1:D:630:ALA:O	4:9:25:ASP:CG	2.09	0.94
1:J:97:LEU:CD2	1:J:712:PRO:CB	2.45	0.94
1:J:218:LEU:CB	1:J:221:GLN:CG	2.46	0.94
1:J:821:ARG:HH22	2:K:127:ARG:HG2	1.22	0.94
1:P:546:THR:HG22	1:P:548:THR:H	1.32	0.94
1:P:639:GLY:N	4:0:345:ILE:N	1.94	0.94
1:P:813:ILE:HG23	2:Q:128:PHE:CZ	2.02	0.94
4:2:324:THR:CG2	4:4:244:ASP:O	1.97	0.94
4:X:324:THR:HB	4:Z:246:GLN:HA	1.50	0.94
1:D:530:MET:CE	4:9:354:GLN:CG	2.40	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:541:MET:N	4:V:349:LEU:HD21	1.80	0.94
1:J:530:MET:HA	4:W:354:GLN:HG3	0.96	0.94
1:J:612:GLN:NE2	1:J:627:GLY:CA	2.31	0.94
1:P:84:MLY:CD	1:P:724:TYR:OH	2.16	0.94
1:P:612:GLN:NE2	1:P:627:GLY:CA	2.31	0.94
1:P:804:ARG:HG3	1:P:808:GLU:CG	1.94	0.94
1:A:149:GLN:CG	1:A:719:ASP:H	1.81	0.94
1:A:505:MLY:HG3	1:A:741:LYS:HZ1	1.31	0.94
1:A:739:ASP:HB3	1:A:742:LYS:CB	1.98	0.94
2:B:121:LEU:HG	2:B:128:PHE:HA	1.47	0.94
1:G:543:PRO:CG	4:V:143:TYR:O	2.15	0.94
1:G:801:VAL:CG2	3:I:126:LEU:CD2	2.45	0.94
1:J:630:ALA:O	4:W:25:ASP:CG	2.09	0.94
1:J:817:GLN:CG	2:K:127:ARG:CB	2.40	0.94
1:P:530:MET:CA	4:0:354:GLN:CG	2.44	0.94
1:A:218:LEU:CB	1:A:221:GLN:CG	2.46	0.93
1:A:736:GLN:CA	1:A:743:ALA:HB2	1.95	0.93
1:D:218:LEU:CB	1:D:221:GLN:CG	2.46	0.93
1:G:612:GLN:NE2	1:G:627:GLY:HA3	1.83	0.93
4:X:291:LYS:HD2	4:Z:244:ASP:H	1.23	0.93
1:A:630:ALA:O	4:8:25:ASP:CG	2.10	0.93
1:D:798:LEU:HD11	3:F:126:LEU:CG	1.97	0.93
1:P:612:GLN:NE2	1:P:627:GLY:HA3	1.83	0.93
1:P:734:GLU:CG	3:R:93:VAL:HG22	1.98	0.93
4:1:288:ASP:N	4:3:203:THR:HG22	1.82	0.93
1:G:754:ASP:HB2	1:G:776:GLU:CA	1.98	0.93
1:J:736:GLN:HA	1:J:743:ALA:HB2	1.50	0.93
1:J:796:GLY:HA2	3:L:35:ARG:HD3	1.51	0.93
1:P:508:ILE:HD11	1:P:759:ALA:HB2	0.95	0.93
4:1:322:PRO:HB3	4:3:244:ASP:CG	1.93	0.93
1:A:93:MET:HE2	1:A:715:VAL:HA	0.93	0.93
1:A:292:MET:HE1	1:A:309:PRO:HA	1.47	0.93
1:D:739:ASP:HB3	1:D:742:LYS:CB	1.98	0.93
1:G:97:LEU:CD2	1:G:712:PRO:HB2	1.98	0.93
1:G:788:THR:O	3:I:42:THR:HG21	1.69	0.93
1:G:795:ARG:CB	3:I:35:ARG:HH12	1.81	0.93
1:J:612:GLN:NE2	1:J:627:GLY:HA3	1.83	0.93
1:P:792:ALA:N	3:R:42:THR:CG2	2.31	0.93
1:D:819:ASN:ND2	2:E:90:GLY:C	2.23	0.93
1:D:830:PRO:HG2	2:E:67:MET:HE1	1.48	0.93
1:G:28:GLN:O	1:G:723:ARG:NH2	2.00	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:829:TRP:CZ3	2:H:84:PHE:CZ	2.54	0.93
1:J:530:MET:CA	4:W:354:GLN:CG	2.44	0.93
1:D:612:GLN:NE2	1:D:627:GLY:CA	2.31	0.93
1:J:206:LYS:CD	1:J:217:THR:CG2	2.16	0.93
2:Q:117:LEU:HD13	2:Q:147:ASN:OD1	1.64	0.93
2:Q:150:TYR:O	2:Q:151:LYS:CG	2.15	0.93
4:X:287:ILE:HG12	4:Z:201:VAL:H	1.29	0.93
1:A:92:ALA:O	1:A:713:SER:HA	1.68	0.93
1:D:736:GLN:HA	1:D:743:ALA:HB2	1.51	0.93
2:E:121:LEU:HG	2:E:128:PHE:HA	1.46	0.93
2:E:150:TYR:O	2:E:151:LYS:HG3	1.65	0.93
1:J:215:GLN:HA	1:J:340:ILE:HG23	0.95	0.93
1:J:756:THR:CG2	1:J:776:GLU:C	2.41	0.93
1:P:642:LYS:CB	4:O:21:PHE:O	2.17	0.93
1:P:648:THR:HG21	1:P:651:ALA:HB2	1.50	0.93
1:P:801:VAL:HG21	3:R:126:LEU:HD21	0.94	0.93
4:X:291:LYS:CG	4:Z:244:ASP:N	2.24	0.93
4:X:324:THR:CG2	4:Z:247:VAL:HG23	1.93	0.93
1:A:629:GLU:CB	1:A:643:GLY:O	2.17	0.93
1:A:648:THR:HG21	1:A:651:ALA:HB2	1.50	0.93
1:A:735:GLY:C	1:A:743:ALA:HB2	1.82	0.93
1:D:818:TYR:CB	2:E:90:GLY:CA	2.22	0.93
1:G:553:MLY:HH12	4:X:45:VAL:HG21	1.46	0.93
1:J:541:MET:N	4:W:349:LEU:HD21	1.80	0.93
1:J:817:GLN:CD	2:K:127:ARG:CD	2.42	0.93
1:A:149:GLN:CB	1:A:719:ASP:OD1	2.16	0.93
1:D:639:GLY:N	4:9:345:ILE:N	1.94	0.93
1:D:797:PHE:CE1	3:F:146:ILE:CA	2.51	0.93
1:G:530:MET:CA	4:V:354:GLN:CG	2.45	0.93
1:G:612:GLN:NE2	1:G:627:GLY:CA	2.31	0.93
1:J:530:MET:CE	4:W:354:GLN:CG	2.40	0.93
1:J:739:ASP:HB3	1:J:742:LYS:CB	1.98	0.93
2:Q:121:LEU:HG	2:Q:128:PHE:HA	1.46	0.93
1:G:642:LYS:CB	4:V:21:PHE:O	2.17	0.93
1:G:795:ARG:HB2	3:I:35:ARG:HH12	1.33	0.93
1:G:836:PHE:CE1	2:H:159:HIS:HA	2.04	0.93
4:O:167:GLU:OE1	4:2:42:GLY:HA2	1.69	0.93
4:O:288:ASP:CG	4:2:63:GLY:CA	2.42	0.93
1:A:215:GLN:HA	1:A:340:ILE:HG23	0.96	0.92
1:J:28:GLN:OE1	1:J:723:ARG:HG2	1.67	0.92
1:J:538:GLU:N	4:W:351:THR:H	1.67	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:538:GLU:N	4:0:351:THR:H	1.67	0.92
4:1:287:ILE:CD1	4:3:203:THR:HB	1.98	0.92
4:V:286:ASP:OD2	4:X:203:THR:HG22	1.69	0.92
1:A:736:GLN:HA	1:A:743:ALA:HB2	1.51	0.92
1:A:836:PHE:HE1	2:B:159:HIS:HB2	1.29	0.92
1:G:505:MLY:HH21	1:G:762:HIS:ND1	1.63	0.92
1:G:813:ILE:CG2	2:H:128:PHE:CZ	2.52	0.92
1:J:648:THR:HG21	1:J:651:ALA:HB2	1.50	0.92
1:P:636:LYS:HD2	4:0:332:PRO:HB3	1.52	0.92
1:A:612:GLN:NE2	1:A:627:GLY:CA	2.31	0.92
1:J:636:LYS:HD2	4:W:332:PRO:HB3	1.52	0.92
1:P:503:TYR:CZ	1:P:711:PHE:CD2	2.57	0.92
4:W:286:ASP:OD1	4:Y:202:THR:HB	1.69	0.92
1:A:641:LYS:HE3	1:A:647:GLN:CG	2.00	0.92
1:G:215:GLN:HA	1:G:340:ILE:HG23	0.95	0.92
1:J:757:GLN:HA	1:J:776:GLU:HG3	1.49	0.92
1:P:215:GLN:H	1:P:340:ILE:CG1	1.72	0.92
1:P:541:MET:N	4:0:349:LEU:HD21	1.80	0.92
1:P:836:PHE:HE1	2:Q:159:HIS:HA	1.16	0.92
1:A:636:LYS:HD2	4:8:332:PRO:HB3	1.51	0.92
1:G:783:LEU:O	1:G:787:ILE:HB	1.70	0.92
1:G:795:ARG:HG2	3:I:118:MET:HE2	1.49	0.92
2:B:150:TYR:O	2:B:151:LYS:CG	2.15	0.92
1:D:530:MET:CA	4:9:354:GLN:CG	2.45	0.92
1:D:550:PHE:HA	4:W:46:GLY:CA	2.00	0.92
1:D:629:GLU:CB	1:D:643:GLY:O	2.17	0.92
1:D:838:ILE:HD13	2:E:54:MET:CE	1.82	0.92
1:G:503:TYR:CZ	1:G:711:PHE:CE2	2.57	0.92
1:J:97:LEU:HD23	1:J:712:PRO:CB	1.99	0.92
1:J:838:ILE:CD1	2:K:54:MET:CE	2.30	0.92
1:P:739:ASP:HB3	1:P:742:LYS:CB	1.98	0.92
1:P:783:LEU:HG	1:P:786:ILE:HD12	1.47	0.92
4:X:291:LYS:CD	4:Z:243:PRO:C	2.41	0.92
1:A:797:PHE:HE1	3:C:146:ILE:HA	1.18	0.92
1:D:735:GLY:C	1:D:743:ALA:HB2	1.82	0.92
1:G:739:ASP:HB3	1:G:742:LYS:CB	1.98	0.92
1:J:546:THR:HG22	1:J:548:THR:H	1.32	0.92
1:J:629:GLU:CB	1:J:643:GLY:O	2.17	0.92
1:P:629:GLU:CB	1:P:643:GLY:O	2.17	0.92
1:P:803:TYR:HD1	1:P:807:VAL:HG11	1.18	0.92
4:8:322:PRO:HB2	4:V:244:ASP:CG	1.94	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:322:PRO:HB2	4:W:244:ASP:CG	1.94	0.92
1:A:546:THR:HG22	1:A:548:THR:H	1.32	0.92
1:A:800:ARG:HB3	3:C:149:VAL:CG2	1.99	0.92
1:D:537:GLU:O	4:9:349:LEU:HD13	0.74	0.92
1:G:84:MLY:CH2	1:G:719:ASP:O	2.18	0.92
1:G:567:LYS:HZ2	4:X:92:ASN:HD22	1.00	0.92
1:G:648:THR:HG21	1:G:651:ALA:HB2	1.50	0.92
1:J:756:THR:CG2	1:J:776:GLU:CD	2.42	0.92
1:P:636:LYS:H	4:0:334:GLU:CD	1.78	0.92
1:A:642:LYS:CB	4:8:21:PHE:O	2.17	0.92
1:A:831:TRP:CZ3	2:B:50:THR:HG22	2.02	0.92
1:D:557:GLU:H	4:W:48:GLY:HA2	1.32	0.92
1:D:636:LYS:HD2	4:9:332:PRO:HB3	1.52	0.92
1:D:708:ARG:C	1:D:710:GLY:N	2.27	0.92
2:E:121:LEU:CB	2:E:128:PHE:HB3	1.69	0.92
1:G:505:MLY:HH23	1:G:762:HIS:CD2	2.03	0.92
1:G:629:GLU:CB	1:G:643:GLY:O	2.17	0.92
1:G:641:LYS:HE3	1:G:647:GLN:CG	2.00	0.92
1:J:84:MLY:HH23	1:J:720:PHE:HA	1.48	0.92
1:J:505:MLY:CG	1:J:762:HIS:CE1	2.51	0.92
1:P:548:THR:HG22	4:2:49:GLN:N	1.84	0.92
1:P:796:GLY:HA3	3:R:40:ASN:HB3	1.52	0.92
1:D:278:GLN:HG2	1:D:317:GLU:HB2	1.52	0.92
1:D:612:GLN:NE2	1:D:627:GLY:HA3	1.83	0.92
1:G:838:ILE:HD11	2:H:54:MET:HE1	1.48	0.92
1:P:215:GLN:HA	1:P:340:ILE:HG23	0.95	0.92
4:7:322:PRO:HB2	4:9:244:ASP:CG	1.94	0.92
1:D:648:THR:HG21	1:D:651:ALA:HB2	1.50	0.91
1:D:831:TRP:HZ3	2:E:34:ILE:HG23	1.29	0.91
1:G:506:GLU:OE2	1:G:760:PHE:HB2	1.69	0.91
1:P:218:LEU:CB	1:P:221:GLN:CG	2.46	0.91
1:P:641:LYS:HE3	1:P:647:GLN:CG	2.00	0.91
1:D:636:LYS:H	4:9:334:GLU:CD	1.77	0.91
1:G:537:GLU:O	4:V:349:LEU:HD13	0.74	0.91
1:J:537:GLU:O	4:W:349:LEU:HD13	0.73	0.91
1:J:636:LYS:H	4:W:334:GLU:CD	1.78	0.91
1:J:795:ARG:NH2	3:L:116:GLU:OE1	2.03	0.91
1:P:278:GLN:HG2	1:P:317:GLU:HB2	1.52	0.91
4:1:287:ILE:CG1	4:3:202:THR:HB	2.00	0.91
1:D:538:GLU:N	4:9:351:THR:H	1.68	0.91
1:D:642:LYS:CB	4:9:21:PHE:O	2.17	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:144:VAL:HG13	2:H:153:ILE:HG12	1.14	0.91
1:J:538:GLU:N	4:W:349:LEU:HD12	1.86	0.91
1:P:537:GLU:O	4:0:349:LEU:HD13	0.73	0.91
4:3:288:ASP:OD1	4:5:203:THR:HG23	1.70	0.91
1:A:218:LEU:HA	1:A:221:GLN:CG	2.01	0.91
1:A:544:LYS:HD2	4:8:147:ARG:HB3	1.53	0.91
1:A:636:LYS:H	4:8:334:GLU:CD	1.77	0.91
1:A:823:PHE:CE1	2:B:160:GLY:CA	2.53	0.91
1:J:642:LYS:CB	4:W:21:PHE:O	2.17	0.91
1:P:218:LEU:HA	1:P:221:GLN:CG	2.01	0.91
1:P:829:TRP:CZ3	2:Q:84:PHE:CE1	2.59	0.91
4:0:288:ASP:CB	4:2:63:GLY:N	2.33	0.91
4:W:286:ASP:CG	4:Y:203:THR:HG22	1.96	0.91
1:A:149:GLN:HB3	1:A:719:ASP:CA	1.99	0.91
1:A:505:MLY:HG3	1:A:741:LYS:NZ	1.84	0.91
1:A:797:PHE:CG	3:C:146:ILE:HG23	2.06	0.91
1:D:726:VAL:HG12	1:D:785:GLU:HG2	1.49	0.91
1:J:278:GLN:HG2	1:J:317:GLU:HB2	1.52	0.91
1:J:829:TRP:CH2	2:K:87:LYS:CE	2.53	0.91
2:K:149:ASP:CG	2:K:150:TYR:H	1.73	0.91
4:1:287:ILE:CG1	4:3:202:THR:CB	2.48	0.91
4:1:287:ILE:HG12	4:3:202:THR:HA	1.48	0.91
4:X:291:LYS:CD	4:Z:243:PRO:HB2	1.99	0.91
1:A:800:ARG:CB	3:C:149:VAL:HG22	2.00	0.91
1:A:836:PHE:CE1	2:B:159:HIS:CB	2.54	0.91
1:G:218:LEU:HA	1:G:221:GLN:CG	2.01	0.91
1:G:636:LYS:H	4:V:334:GLU:CD	1.78	0.91
1:G:638:GLY:HA3	4:V:341:ILE:O	1.70	0.91
1:J:641:LYS:HE3	1:J:647:GLN:CG	2.00	0.91
1:P:538:GLU:N	4:0:349:LEU:HD12	1.86	0.91
4:1:287:ILE:HB	4:3:203:THR:N	1.82	0.91
1:A:735:GLY:O	1:A:743:ALA:CA	2.19	0.91
1:D:506:GLU:HG3	1:D:764:MLY:CE	2.01	0.91
1:D:831:TRP:CZ2	2:E:47:LEU:CA	2.52	0.91
1:G:538:GLU:N	4:V:351:THR:H	1.68	0.91
1:J:813:ILE:CG2	2:K:128:PHE:HE1	1.81	0.91
3:L:62:ALA:O	3:L:63:ILE:CG1	2.19	0.91
1:A:537:GLU:O	4:8:349:LEU:HD13	0.74	0.91
1:A:793:ARG:NH2	3:C:147:MET:HE3	1.85	0.91
1:D:712:PRO:HG2	1:D:771:LEU:CB	2.01	0.91
1:D:735:GLY:O	1:D:743:ALA:CA	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:ARG:HB2	3:F:35:ARG:NH1	1.85	0.91
1:G:544:LYS:HD2	4:V:147:ARG:HB3	1.53	0.91
1:G:735:GLY:C	1:G:743:ALA:HB1	1.84	0.91
1:A:557:GLU:H	4:V:48:GLY:HA2	1.32	0.91
3:C:62:ALA:O	3:C:63:ILE:CG1	2.19	0.91
2:K:150:TYR:O	2:K:151:LYS:HB2	1.67	0.91
1:P:735:GLY:O	1:P:743:ALA:CA	2.19	0.91
1:P:786:ILE:CG2	1:P:787:ILE:CB	2.40	0.91
2:Q:149:ASP:CG	2:Q:150:TYR:H	1.73	0.91
1:D:735:GLY:C	1:D:743:ALA:HB1	1.84	0.91
1:P:819:ASN:HD21	2:Q:92:ASP:HB2	1.25	0.91
1:P:834:LEU:CD1	2:Q:51:PHE:CE1	2.53	0.91
1:A:550:PHE:HA	4:V:46:GLY:CA	2.00	0.90
1:A:735:GLY:C	1:A:743:ALA:HB1	1.84	0.90
1:D:557:GLU:N	4:W:48:GLY:CA	2.12	0.90
1:D:818:TYR:HB3	2:E:90:GLY:N	1.87	0.90
2:E:117:LEU:CG	2:E:147:ASN:CG	2.44	0.90
1:G:506:GLU:CD	1:G:760:PHE:O	2.15	0.90
1:G:636:LYS:HD2	4:V:332:PRO:HB3	1.52	0.90
1:A:538:GLU:N	4:8:349:LEU:HD12	1.85	0.90
1:A:753:VAL:CG1	1:A:775:LEU:CD2	2.48	0.90
1:A:791:GLN:HE22	3:C:115:GLY:HA3	1.32	0.90
1:D:218:LEU:HA	1:D:221:GLN:CG	2.01	0.90
1:D:553:MLY:HE2	4:W:45:VAL:HA	1.53	0.90
1:D:649:VAL:CG2	1:D:649:VAL:HG13	2.02	0.90
1:G:826:VAL:HG21	2:H:88:LEU:CD2	2.02	0.90
1:J:561:LYS:HE3	4:Y:48:GLY:HA3	1.51	0.90
1:J:735:GLY:O	1:J:743:ALA:CA	2.19	0.90
1:J:834:LEU:HD13	2:K:51:PHE:HE1	1.30	0.90
1:A:649:VAL:CB	1:A:649:VAL:CG2	2.50	0.90
1:A:795:ARG:CZ	3:C:43:ASN:OD1	2.14	0.90
1:G:538:GLU:N	4:V:349:LEU:HD12	1.87	0.90
1:G:553:MLY:HG3	4:X:45:VAL:C	1.96	0.90
1:G:567:LYS:HZ1	4:X:92:ASN:ND2	1.65	0.90
1:G:649:VAL:CB	1:G:649:VAL:CG2	2.49	0.90
1:P:544:LYS:HD2	4:O:147:ARG:HB3	1.53	0.90
1:P:817:GLN:CD	2:Q:127:ARG:CD	2.43	0.90
1:A:538:GLU:N	4:8:351:THR:H	1.68	0.90
2:B:117:LEU:CG	2:B:147:ASN:CG	2.44	0.90
1:D:538:GLU:O	4:9:349:LEU:CG	2.20	0.90
1:D:831:TRP:CD1	2:E:51:PHE:HZ	1.88	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:838:ILE:HD13	2:E:54:MET:HE1	0.91	0.90
1:J:544:LYS:HD2	4:W:147:ARG:HB3	1.53	0.90
1:A:709:LYS:C	1:A:710:GLY:CA	2.44	0.90
1:A:791:GLN:NE2	3:C:115:GLY:HA3	1.87	0.90
1:D:534:SER:O	4:9:351:THR:HG23	1.13	0.90
1:D:544:LYS:HD2	4:9:147:ARG:HB3	1.53	0.90
1:D:721:LYS:CB	1:D:736:GLN:OE1	2.20	0.90
1:J:649:VAL:CG2	1:J:649:VAL:HG13	2.02	0.90
1:P:84:MLY:HD3	1:P:776:GLU:OE2	1.70	0.90
1:A:638:GLY:HA3	4:8:341:ILE:O	1.70	0.90
1:D:813:ILE:CG2	2:E:128:PHE:CE1	2.55	0.90
1:D:823:PHE:CE1	2:E:160:GLY:HA3	2.04	0.90
1:G:107:MLY:HB3	1:G:686:MET:HE2	1.54	0.90
1:G:278:GLN:HG2	1:G:317:GLU:HB2	1.52	0.90
1:G:503:TYR:CZ	1:G:711:PHE:HD2	1.88	0.90
1:J:630:ALA:C	4:W:25:ASP:OD2	2.15	0.90
1:P:206:LYS:CD	1:P:217:THR:CG2	2.16	0.90
4:1:287:ILE:CD1	4:3:203:THR:N	2.34	0.90
1:D:641:LYS:HE3	1:D:647:GLN:CG	2.00	0.90
1:D:797:PHE:HE1	3:F:146:ILE:CA	1.85	0.90
1:G:820:VAL:HG11	2:H:136:MET:HE1	1.54	0.90
1:J:218:LEU:HA	1:J:221:GLN:CG	2.00	0.90
1:P:649:VAL:CG2	1:P:649:VAL:HG13	2.02	0.90
1:P:813:ILE:CG2	2:Q:128:PHE:CE1	2.55	0.90
1:A:149:GLN:HG2	1:A:719:ASP:H	1.35	0.90
1:A:278:GLN:HG2	1:A:317:GLU:HB2	1.52	0.90
3:F:62:ALA:O	3:F:63:ILE:CG1	2.19	0.90
1:J:149:GLN:OE1	1:J:763:THR:HG21	1.72	0.90
1:P:733:PRO:CB	3:R:93:VAL:HG11	2.01	0.90
1:P:818:TYR:OH	2:Q:127:ARG:NH2	2.03	0.90
1:P:821:ARG:HH21	2:Q:127:ARG:HG2	1.37	0.90
3:R:62:ALA:O	3:R:63:ILE:HG12	1.71	0.90
1:A:95:THR:HG1	1:A:769:ALA:C	1.72	0.90
1:A:791:GLN:HE22	3:C:115:GLY:C	1.79	0.90
1:A:836:PHE:HE1	2:B:159:HIS:CB	1.84	0.90
1:D:508:ILE:HA	1:D:761:GLY:HA3	1.54	0.90
1:D:550:PHE:CA	4:W:46:GLY:HA3	2.02	0.90
1:D:630:ALA:C	4:9:25:ASP:OD2	2.15	0.90
1:D:793:ARG:NH2	3:F:147:MET:HE3	1.86	0.90
2:E:137:TRP:HA	2:E:145:ALA:HB2	1.54	0.90
1:J:530:MET:N	4:W:354:GLN:HB3	1.87	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:324:THR:CG2	4:X:247:VAL:H	1.84	0.90
1:A:754:ASP:OD2	1:A:774:LEU:HD23	1.71	0.90
1:D:538:GLU:N	4:9:349:LEU:HD12	1.86	0.90
1:D:819:ASN:OD1	2:E:91:ALA:CA	2.13	0.90
3:F:62:ALA:O	3:F:63:ILE:HG12	1.71	0.90
1:G:629:GLU:HG2	1:G:643:GLY:O	1.72	0.90
1:G:721:LYS:CB	1:G:736:GLN:OE1	2.20	0.90
1:G:735:GLY:O	1:G:743:ALA:CA	2.19	0.90
1:G:795:ARG:CZ	3:I:116:GLU:CG	2.47	0.90
3:I:24:LYS:HB3	3:I:63:ILE:O	1.72	0.90
1:J:97:LEU:CD2	1:J:712:PRO:HB3	2.01	0.90
1:J:538:GLU:O	4:W:349:LEU:CG	2.20	0.90
1:J:819:ASN:CG	2:K:90:GLY:O	2.14	0.90
1:P:538:GLU:O	4:0:349:LEU:CG	2.20	0.90
4:1:287:ILE:HG21	4:3:202:THR:CB	2.02	0.90
1:A:502:GLU:CG	1:A:761:GLY:N	2.33	0.89
1:A:629:GLU:HG2	1:A:643:GLY:O	1.72	0.89
1:A:630:ALA:C	4:8:25:ASP:OD2	2.15	0.89
3:C:62:ALA:O	3:C:63:ILE:HG12	1.71	0.89
1:D:553:MLY:CG	4:W:44:MET:O	2.20	0.89
2:K:117:LEU:CG	2:K:147:ASN:CG	2.44	0.89
1:P:107:MLY:HB3	1:P:686:MET:HE2	1.54	0.89
1:P:530:MET:N	4:0:354:GLN:HB3	1.87	0.89
2:Q:144:VAL:HG13	2:Q:153:ILE:HD11	1.22	0.89
3:R:62:ALA:O	3:R:63:ILE:CG1	2.19	0.89
2:H:137:TRP:HA	2:H:145:ALA:HB2	1.54	0.89
3:I:62:ALA:O	3:I:63:ILE:HG12	1.71	0.89
1:J:107:MLY:HB3	1:J:686:MET:HE2	1.54	0.89
1:J:635:GLY:CA	4:W:341:ILE:HD13	2.02	0.89
1:P:649:VAL:CB	1:P:649:VAL:CG2	2.49	0.89
1:P:721:LYS:CB	1:P:736:GLN:OE1	2.20	0.89
1:P:736:GLN:HA	1:P:743:ALA:HB2	1.51	0.89
1:D:638:GLY:HA3	4:9:341:ILE:O	1.70	0.89
1:D:649:VAL:CB	1:D:649:VAL:CG2	2.49	0.89
1:G:829:TRP:CZ2	2:H:87:LYS:HE2	2.07	0.89
1:J:756:THR:CG2	1:J:776:GLU:CB	2.45	0.89
1:P:831:TRP:CH2	2:Q:47:LEU:HD23	2.03	0.89
1:P:836:PHE:CE2	2:Q:160:GLY:N	2.33	0.89
4:0:205:GLU:OE2	4:Y:287:ILE:HG22	1.70	0.89
1:A:640:LYS:C	4:8:23:GLY:O	2.15	0.89
1:D:629:GLU:HG2	1:D:643:GLY:O	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:553:MLY:NZ	4:X:45:VAL:HG11	1.88	0.89
1:G:792:ALA:CB	3:I:42:THR:HG23	2.02	0.89
1:G:795:ARG:NE	3:I:116:GLU:CB	2.12	0.89
3:I:62:ALA:O	3:I:63:ILE:CG1	2.19	0.89
1:P:534:SER:HA	4:O:350:SER:O	1.71	0.89
1:P:635:GLY:CA	4:O:341:ILE:HD13	2.02	0.89
1:A:107:MLY:HB3	1:A:686:MET:HE2	1.54	0.89
1:D:635:GLY:CA	4:9:341:ILE:HD13	2.03	0.89
2:E:121:LEU:CA	2:E:128:PHE:CB	2.46	0.89
1:G:215:GLN:H	1:G:340:ILE:CG1	1.72	0.89
2:H:117:LEU:CG	2:H:147:ASN:CG	2.45	0.89
1:J:534:SER:HA	4:W:350:SER:O	1.71	0.89
1:J:640:LYS:C	4:W:23:GLY:O	2.15	0.89
1:J:649:VAL:CB	1:J:649:VAL:CG2	2.49	0.89
1:J:721:LYS:CB	1:J:736:GLN:OE1	2.20	0.89
2:Q:117:LEU:CG	2:Q:147:ASN:CG	2.44	0.89
1:D:823:PHE:HE1	2:E:160:GLY:HA3	1.33	0.89
1:G:538:GLU:O	4:V:349:LEU:CG	2.20	0.89
1:J:754:ASP:HA	1:J:780:ASP:OD2	1.72	0.89
1:P:630:ALA:C	4:O:25:ASP:OD2	2.15	0.89
4:1:203:THR:CB	4:Z:287:ILE:HD13	2.01	0.89
1:A:501:GLU:CG	1:A:762:HIS:ND1	2.33	0.89
1:A:530:MET:N	4:8:354:GLN:HB3	1.87	0.89
3:C:24:LYS:HB3	3:C:63:ILE:O	1.72	0.89
1:D:534:SER:HA	4:9:350:SER:O	1.71	0.89
1:D:641:LYS:HD2	4:9:348:SER:CB	2.02	0.89
1:P:797:PHE:CZ	3:R:126:LEU:HD22	2.07	0.89
1:A:534:SER:HA	4:8:350:SER:O	1.71	0.89
1:G:599:ASN:OD1	1:G:649:VAL:HB	1.72	0.89
2:K:137:TRP:HA	2:K:145:ALA:HB2	1.53	0.89
3:L:24:LYS:HB3	3:L:63:ILE:O	1.72	0.89
1:P:640:LYS:C	4:O:23:GLY:O	2.15	0.89
1:A:538:GLU:O	4:8:349:LEU:CG	2.20	0.89
1:A:813:ILE:HG22	2:B:127:ARG:HD2	0.90	0.89
1:D:107:MLY:HB3	1:D:686:MET:HE2	1.54	0.89
1:D:530:MET:N	4:9:354:GLN:HB3	1.87	0.89
1:A:553:MLY:CG	4:V:44:MET:O	2.20	0.89
2:B:137:TRP:HA	2:B:145:ALA:HB2	1.54	0.89
1:D:649:VAL:HG12	1:D:649:VAL:C	1.98	0.89
1:D:800:ARG:O	3:F:149:VAL:HG21	1.72	0.89
1:D:834:LEU:CD1	2:E:54:MET:CB	2.50	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:754:ASP:HB3	1:G:776:GLU:CD	1.77	0.89
1:J:84:MLY:HH21	1:J:720:PHE:HA	0.90	0.89
1:J:641:LYS:HD2	4:W:348:SER:CB	2.02	0.89
1:P:797:PHE:CE1	3:R:146:ILE:CG1	2.56	0.89
1:G:530:MET:N	4:V:354:GLN:HB3	1.88	0.88
1:G:754:ASP:CA	1:G:776:GLU:OE1	2.20	0.88
1:G:819:ASN:HA	2:H:90:GLY:C	1.99	0.88
1:P:84:MLY:HH22	1:P:723:ARG:CB	2.03	0.88
1:P:795:ARG:NE	3:R:116:GLU:OE2	2.06	0.88
1:P:800:ARG:HD3	3:R:149:VAL:C	1.98	0.88
3:R:24:LYS:HB3	3:R:63:ILE:O	1.72	0.88
4:X:324:THR:CB	4:Z:246:GLN:HA	2.03	0.88
1:D:215:GLN:H	1:D:340:ILE:HG12	1.06	0.88
1:D:541:MET:CB	4:9:143:TYR:OH	2.20	0.88
1:J:629:GLU:HG2	1:J:643:GLY:O	1.72	0.88
1:J:830:PRO:CB	2:K:67:MET:HE2	2.03	0.88
1:J:831:TRP:CZ2	2:K:47:LEU:CD2	2.55	0.88
1:P:638:GLY:HA3	4:0:341:ILE:O	1.70	0.88
1:A:550:PHE:CA	4:V:46:GLY:HA3	2.02	0.88
1:D:640:LYS:C	4:9:23:GLY:O	2.15	0.88
1:G:534:SER:HA	4:V:350:SER:O	1.71	0.88
1:G:541:MET:CB	4:V:143:TYR:OH	2.21	0.88
1:G:542:PHE:HA	4:V:143:TYR:HE1	1.34	0.88
1:G:640:LYS:C	4:V:23:GLY:O	2.16	0.88
1:J:215:GLN:H	1:J:340:ILE:CG1	1.72	0.88
1:J:638:GLY:HA3	4:W:341:ILE:O	1.70	0.88
1:J:836:PHE:HE1	2:K:159:HIS:HA	1.31	0.88
2:K:121:LEU:CB	2:K:128:PHE:HB3	1.69	0.88
3:L:62:ALA:O	3:L:63:ILE:HG12	1.71	0.88
2:E:163:ALA:O	2:K:22:THR:N	2.04	0.88
1:G:148:ARG:HH21	1:G:764:MLY:HH21	1.39	0.88
1:G:642:LYS:HG2	4:V:22:ALA:CA	2.03	0.88
1:P:629:GLU:HG2	1:P:643:GLY:O	1.72	0.88
1:A:721:LYS:CB	1:A:736:GLN:OE1	2.20	0.88
1:A:795:ARG:CG	3:C:118:MET:HE1	2.02	0.88
1:D:599:ASN:OD1	1:D:649:VAL:HB	1.73	0.88
1:J:215:GLN:H	1:J:340:ILE:HG12	1.05	0.88
1:P:641:LYS:HD2	4:0:348:SER:CB	2.03	0.88
1:P:642:LYS:HG2	4:0:22:ALA:CA	2.03	0.88
1:A:541:MET:CB	4:8:143:TYR:OH	2.20	0.88
1:A:642:LYS:HG2	4:8:22:ALA:CA	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:137:TRP:HA	2:B:145:ALA:CB	2.04	0.88
1:D:814:PHE:HA	2:E:127:ARG:HH11	1.10	0.88
1:D:831:TRP:CD1	2:E:67:MET:SD	2.67	0.88
3:F:24:LYS:HB3	3:F:63:ILE:O	1.72	0.88
1:G:84:MLY:HB3	1:G:723:ARG:CZ	2.03	0.88
1:G:641:LYS:CD	1:G:647:GLN:OE1	2.17	0.88
1:G:649:VAL:CG2	1:G:649:VAL:HG13	2.02	0.88
1:J:642:LYS:HG2	4:W:22:ALA:CA	2.03	0.88
1:J:795:ARG:CZ	3:L:116:GLU:CD	2.47	0.88
1:P:642:LYS:CG	4:O:21:PHE:O	2.22	0.88
2:Q:137:TRP:HA	2:Q:145:ALA:HB2	1.53	0.88
1:A:793:ARG:HH21	3:C:147:MET:CE	1.85	0.88
1:D:641:LYS:CD	1:D:647:GLN:OE1	2.17	0.88
1:D:726:VAL:HG12	1:D:785:GLU:CG	2.02	0.88
1:D:798:LEU:HD13	3:F:126:LEU:HD11	1.54	0.88
1:J:642:LYS:CG	4:W:21:PHE:O	2.22	0.88
1:P:215:GLN:H	1:P:340:ILE:HG12	1.05	0.88
1:G:642:LYS:CG	4:V:21:PHE:O	2.22	0.88
1:G:817:GLN:NE2	2:H:127:ARG:HB2	1.88	0.88
1:G:818:TYR:CE1	2:H:127:ARG:NH1	2.41	0.88
1:J:798:LEU:CD1	3:L:126:LEU:CD1	2.28	0.88
1:A:97:LEU:HD23	1:A:712:PRO:CB	1.99	0.88
1:A:498:LEU:HD23	1:A:764:MLY:HH22	1.55	0.88
1:A:641:LYS:HD2	4:8:348:SER:CB	2.02	0.88
1:A:795:ARG:NE	3:C:116:GLU:OE2	2.07	0.88
2:B:111:SER:OG	2:B:148:VAL:C	2.15	0.88
1:D:635:GLY:HA2	4:9:334:GLU:CG	2.03	0.88
1:G:557:GLU:HB2	4:X:46:GLY:C	1.99	0.88
1:G:831:TRP:NE1	2:H:67:MET:HB3	1.88	0.88
3:R:139:TYR:HA	3:R:142:PHE:HB3	1.56	0.88
1:A:797:PHE:CD1	3:C:146:ILE:HG23	2.09	0.87
1:D:646:PHE:CE2	1:D:652:LEU:CD1	2.58	0.87
1:G:84:MLY:HG2	1:G:723:ARG:HD2	0.89	0.87
1:G:635:GLY:CA	4:V:341:ILE:HD13	2.03	0.87
1:J:756:THR:HG22	1:J:776:GLU:HB3	1.56	0.87
1:P:792:ALA:CB	3:R:81:GLN:NE2	2.36	0.87
1:A:553:MLY:HE2	4:V:45:VAL:HA	1.53	0.87
1:G:646:PHE:CE2	1:G:652:LEU:CD1	2.58	0.87
1:J:541:MET:CB	4:W:143:TYR:OH	2.20	0.87
1:P:541:MET:CB	4:O:143:TYR:OH	2.20	0.87
1:P:831:TRP:HE1	2:Q:67:MET:HB3	1.37	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:288:ASP:N	4:Z:202:THR:OG1	2.03	0.87
1:A:72:VAL:CG1	1:A:76:GLN:HB3	2.05	0.87
1:A:91:MET:HE3	1:A:119:SER:HB2	1.57	0.87
1:D:732:ILE:CD1	1:D:782:MLY:HH11	2.04	0.87
3:F:139:TYR:HA	3:F:142:PHE:HB3	1.56	0.87
2:H:137:TRP:HA	2:H:145:ALA:CB	2.04	0.87
1:A:542:PHE:HA	4:8:143:TYR:HE1	1.34	0.87
2:E:137:TRP:HA	2:E:145:ALA:CB	2.04	0.87
3:L:139:TYR:HA	3:L:142:PHE:HB3	1.56	0.87
1:P:646:PHE:CE2	1:P:652:LEU:CD1	2.58	0.87
1:P:831:TRP:HH2	2:Q:47:LEU:HD23	1.35	0.87
2:Q:137:TRP:HA	2:Q:145:ALA:CB	2.04	0.87
4:3:287:ILE:CG2	4:5:204:ALA:H	1.87	0.87
1:A:649:VAL:HG13	1:A:649:VAL:CG2	2.02	0.87
1:D:642:LYS:CG	4:9:21:PHE:O	2.22	0.87
1:G:769:ALA:O	1:G:773:GLY:HA3	1.73	0.87
1:J:797:PHE:CZ	3:L:146:ILE:HG23	2.07	0.87
1:A:798:LEU:HD11	3:C:126:LEU:CG	2.04	0.87
1:A:798:LEU:CD2	3:C:126:LEU:HD11	2.04	0.87
1:D:507:GLY:CA	1:D:762:HIS:CG	2.57	0.87
2:E:162:ASP:O	2:K:21:GLU:HB2	1.73	0.87
2:H:111:SER:OG	2:H:148:VAL:C	2.15	0.87
1:A:642:LYS:CG	4:8:21:PHE:O	2.22	0.87
1:D:642:LYS:HG2	4:9:22:ALA:CA	2.03	0.87
1:D:649:VAL:CG1	1:D:649:VAL:CA	2.53	0.87
1:D:834:LEU:HD21	2:E:54:MET:CE	2.04	0.87
1:G:649:VAL:CG1	1:G:649:VAL:CA	2.53	0.87
1:J:646:PHE:CE2	1:J:652:LEU:CD1	2.58	0.87
1:P:72:VAL:CG1	1:P:76:GLN:HB3	2.05	0.87
4:1:324:THR:CG2	4:3:244:ASP:HA	2.05	0.87
1:A:635:GLY:CA	4:8:341:ILE:HD13	2.02	0.87
1:A:649:VAL:CG1	1:A:649:VAL:CA	2.53	0.87
1:G:757:GLN:HG2	1:G:776:GLU:CD	1.99	0.87
1:G:832:MET:SD	2:H:84:PHE:CE2	2.66	0.87
1:J:567:LYS:HZ3	4:Y:92:ASN:HD22	1.19	0.87
1:J:635:GLY:HA2	4:W:334:GLU:CG	2.03	0.87
1:J:641:LYS:CD	1:J:647:GLN:OE1	2.18	0.87
1:P:534:SER:O	4:0:351:THR:HG23	1.13	0.87
4:1:322:PRO:CB	4:3:244:ASP:HB3	2.04	0.87
1:A:505:MLY:HB2	1:A:761:GLY:HA2	1.55	0.87
1:G:754:ASP:N	1:G:776:GLU:OE1	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:639:GLY:CA	4:W:344:SER:C	2.48	0.87
4:1:202:THR:CA	4:Z:287:ILE:CG1	2.52	0.87
1:A:815:CYS:SG	2:B:92:ASP:HB2	2.14	0.86
1:D:91:MET:HE3	1:D:119:SER:HB2	1.56	0.86
1:G:292:MET:HE1	1:G:309:PRO:CA	2.05	0.86
1:J:292:MET:HE1	1:J:309:PRO:CA	2.05	0.86
1:J:735:GLY:C	1:J:743:ALA:HB1	1.84	0.86
1:J:755:HIS:HA	1:J:758:TYR:CE1	2.10	0.86
1:P:641:LYS:CD	1:P:647:GLN:OE1	2.17	0.86
1:P:830:PRO:CB	2:Q:67:MET:HE2	2.05	0.86
1:A:502:GLU:CA	1:A:761:GLY:CA	2.50	0.86
1:A:530:MET:HG2	4:8:354:GLN:CG	2.05	0.86
1:A:819:ASN:CG	2:B:92:ASP:N	2.33	0.86
1:D:530:MET:HG2	4:9:354:GLN:CG	2.05	0.86
1:G:72:VAL:CG1	1:G:76:GLN:HB3	2.05	0.86
1:J:649:VAL:CG1	1:J:649:VAL:CA	2.53	0.86
1:P:800:ARG:NH2	3:R:40:ASN:CG	2.33	0.86
4:V:286:ASP:OD1	4:X:203:THR:HG22	1.74	0.86
1:A:215:GLN:H	1:A:340:ILE:HG12	1.06	0.86
1:G:505:MLY:HH21	1:G:762:HIS:CE1	1.40	0.86
1:G:530:MET:HG2	4:V:354:GLN:CG	2.05	0.86
1:G:639:GLY:CA	4:V:344:SER:C	2.48	0.86
1:J:72:VAL:CG1	1:J:76:GLN:HB3	2.05	0.86
1:J:557:GLU:HA	4:Y:48:GLY:N	1.90	0.86
1:J:836:PHE:CE1	2:K:159:HIS:CA	2.55	0.86
1:P:649:VAL:CG1	1:P:649:VAL:CA	2.53	0.86
1:P:755:HIS:HA	1:P:758:TYR:CE1	2.10	0.86
1:P:786:ILE:C	1:P:788:THR:H	1.81	0.86
1:A:799:MET:HE1	3:C:32:ASP:HB3	1.57	0.86
1:D:646:PHE:CD2	1:D:652:LEU:HD11	2.09	0.86
1:D:755:HIS:HA	1:D:758:TYR:CE1	2.10	0.86
1:D:834:LEU:CG	2:E:54:MET:CG	2.38	0.86
1:G:641:LYS:HD2	4:V:348:SER:CB	2.03	0.86
1:P:84:MLY:CG	1:P:723:ARG:NE	2.36	0.86
1:P:97:LEU:CD2	1:P:712:PRO:HB2	2.06	0.86
4:1:324:THR:HG23	4:3:244:ASP:HA	1.55	0.86
1:A:501:GLU:HG2	1:A:762:HIS:HD1	0.77	0.86
1:A:502:GLU:CD	1:A:761:GLY:CA	2.29	0.86
1:D:292:MET:HE1	1:D:309:PRO:CA	2.05	0.86
1:D:310:TYR:CZ	1:D:320:ILE:HD11	2.11	0.86
1:D:639:GLY:CA	4:9:344:SER:C	2.48	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:646:PHE:CD2	1:G:652:LEU:HD11	2.09	0.86
1:G:798:LEU:HD23	3:I:118:MET:HB3	1.56	0.86
1:G:801:VAL:HG21	3:I:126:LEU:HD21	1.56	0.86
1:J:530:MET:HG2	4:W:354:GLN:CG	2.06	0.86
1:J:795:ARG:NH2	3:L:116:GLU:CD	2.33	0.86
1:P:530:MET:HG2	4:O:354:GLN:CG	2.06	0.86
4:X:287:ILE:CG2	4:Z:201:VAL:HG23	2.06	0.86
1:A:97:LEU:HD22	1:A:712:PRO:CB	2.05	0.86
1:P:646:PHE:CD2	1:P:652:LEU:HD11	2.09	0.86
1:A:639:GLY:CA	4:8:344:SER:C	2.48	0.86
1:D:206:LYS:HD3	1:D:217:THR:CB	2.06	0.86
1:G:84:MLY:HA	1:G:723:ARG:CZ	2.06	0.86
1:G:93:MET:CE	1:G:764:MLY:CD	2.52	0.86
1:G:206:LYS:HD3	1:G:217:THR:CB	2.06	0.86
1:G:755:HIS:HA	1:G:758:TYR:CE1	2.10	0.86
2:K:137:TRP:HA	2:K:145:ALA:CB	2.04	0.86
4:1:287:ILE:HB	4:3:203:THR:CG2	2.04	0.86
4:8:287:ILE:CG2	4:V:205:GLU:HG2	2.05	0.86
1:A:549:SER:O	4:V:46:GLY:C	2.19	0.86
1:A:641:LYS:CD	1:A:647:GLN:OE1	2.17	0.86
1:D:72:VAL:CG1	1:D:76:GLN:HB3	2.05	0.86
1:G:91:MET:HE3	1:G:119:SER:HB2	1.56	0.86
2:H:121:LEU:CA	2:H:128:PHE:CB	2.46	0.86
1:J:310:TYR:CZ	1:J:320:ILE:HD11	2.11	0.86
1:J:829:TRP:CH2	2:K:87:LYS:NZ	2.38	0.86
1:P:292:MET:HE1	1:P:309:PRO:CA	2.05	0.86
1:P:548:THR:HG21	4:2:48:GLY:C	1.99	0.86
1:P:635:GLY:HA2	4:O:334:GLU:CG	2.03	0.86
2:B:121:LEU:CA	2:B:128:PHE:CB	2.46	0.86
1:D:724:TYR:HA	1:D:782:MLY:CD	2.04	0.86
2:Q:111:SER:OG	2:Q:148:VAL:C	2.15	0.86
1:A:292:MET:HE1	1:A:309:PRO:CA	2.05	0.86
1:A:755:HIS:HA	1:A:758:TYR:CE1	2.10	0.86
1:A:797:PHE:CE1	3:C:146:ILE:O	2.28	0.86
1:D:831:TRP:HZ2	2:E:47:LEU:HB3	1.39	0.86
1:G:798:LEU:CD2	3:I:118:MET:HB3	2.05	0.86
1:G:830:PRO:HB3	2:H:67:MET:HE2	1.57	0.86
1:P:639:GLY:CA	4:O:344:SER:C	2.48	0.86
2:Q:121:LEU:CA	2:Q:128:PHE:CB	2.46	0.86
1:A:538:GLU:N	4:8:351:THR:N	2.24	0.85
1:G:725:ARG:CZ	1:G:733:PRO:HB3	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:818:TYR:CZ	2:H:127:ARG:CZ	2.55	0.85
1:J:206:LYS:HD3	1:J:217:THR:CB	2.06	0.85
1:J:599:ASN:OD1	1:J:649:VAL:HB	1.73	0.85
1:J:646:PHE:CD2	1:J:652:LEU:HD11	2.10	0.85
1:A:502:GLU:CG	1:A:764:MLY:O	2.24	0.85
1:A:599:ASN:OD1	1:A:649:VAL:CA	2.25	0.85
3:C:139:TYR:HA	3:C:142:PHE:HB3	1.56	0.85
1:G:204:GLU:H	1:G:207:LYS:HE3	1.42	0.85
4:1:244:ASP:HB3	4:Z:322:PRO:CB	2.05	0.85
4:1:322:PRO:HB2	4:3:244:ASP:HB3	1.56	0.85
1:A:836:PHE:HZ	2:B:160:GLY:N	1.55	0.85
1:D:549:SER:O	4:W:46:GLY:C	2.18	0.85
1:G:736:GLN:HA	1:G:743:ALA:HB2	1.51	0.85
1:P:735:GLY:C	1:P:743:ALA:HB2	1.82	0.85
1:A:93:MET:HG2	1:A:715:VAL:CG2	2.06	0.85
1:G:792:ALA:CB	3:I:42:THR:HA	2.06	0.85
1:J:410:ASN:OD1	4:W:334:GLU:CA	2.24	0.85
1:J:732:ILE:HG23	1:J:747:LEU:HB2	1.57	0.85
1:J:792:ALA:CB	3:L:42:THR:N	2.38	0.85
1:A:792:ALA:HB2	3:C:42:THR:HG22	0.87	0.85
1:J:725:ARG:CZ	1:J:733:PRO:HB3	2.06	0.85
1:P:204:GLU:H	1:P:207:LYS:HE3	1.42	0.85
1:P:792:ALA:CB	3:R:81:GLN:HE22	1.89	0.85
1:A:204:GLU:H	1:A:207:LYS:HE3	1.42	0.85
1:A:795:ARG:HB2	3:C:35:ARG:NH1	1.90	0.85
1:G:202:SER:HA	1:G:207:LYS:HE2	0.85	0.85
1:G:599:ASN:OD1	1:G:649:VAL:CA	2.25	0.85
1:P:834:LEU:CD1	2:Q:51:PHE:HE1	1.88	0.85
4:0:243:PRO:CA	4:Y:291:LYS:CE	2.52	0.85
1:A:410:ASN:OD1	4:8:334:GLU:CA	2.24	0.85
1:D:834:LEU:HD12	2:E:54:MET:HG3	1.55	0.85
1:G:215:GLN:H	1:G:340:ILE:HG12	1.06	0.85
1:J:640:LYS:CB	1:J:645:SER:OG	2.25	0.85
1:J:797:PHE:CZ	3:L:146:ILE:HD13	2.12	0.85
1:J:831:TRP:CZ2	2:K:47:LEU:HD21	2.12	0.85
1:P:310:TYR:CZ	1:P:320:ILE:HD11	2.11	0.85
1:P:826:VAL:HG21	2:Q:88:LEU:CD2	2.07	0.85
4:V:325:MET:HE1	4:X:244:ASP:CG	2.00	0.85
1:A:202:SER:HA	1:A:207:LYS:HE2	0.85	0.85
1:D:599:ASN:OD1	1:D:649:VAL:CA	2.25	0.85
2:E:163:ALA:CA	2:K:21:GLU:HB3	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:MLY:CB	1:G:723:ARG:CD	2.52	0.85
1:G:410:ASN:CG	4:V:334:GLU:CA	2.47	0.85
1:G:553:MLY:HH12	4:X:45:VAL:HG11	1.58	0.85
1:P:793:ARG:HB2	3:R:87:PHE:CZ	2.11	0.85
1:A:206:LYS:HD3	1:A:217:THR:CB	2.06	0.85
1:D:410:ASN:OD1	4:9:334:GLU:CA	2.24	0.85
1:D:791:GLN:OE1	3:F:116:GLU:CG	2.20	0.85
1:G:538:GLU:HG3	4:V:351:THR:C	2.02	0.85
1:P:206:LYS:HD3	1:P:217:THR:CB	2.06	0.85
1:P:800:ARG:O	3:R:149:VAL:HG21	1.77	0.85
4:9:287:ILE:CG2	4:W:205:GLU:HG2	2.05	0.85
1:A:797:PHE:CZ	3:C:146:ILE:HA	2.11	0.85
1:D:204:GLU:H	1:D:207:LYS:HE3	1.42	0.85
1:D:418:THR:HB	1:D:421:GLU:HG3	1.59	0.85
1:G:310:TYR:CZ	1:G:320:ILE:HD11	2.11	0.85
1:G:410:ASN:OD1	4:V:334:GLU:CA	2.24	0.85
1:J:789:ALA:HB1	3:L:81:GLN:CD	2.02	0.85
1:P:732:ILE:HG23	1:P:747:LEU:HB2	1.57	0.85
1:G:831:TRP:CZ2	2:H:47:LEU:HD22	2.10	0.84
1:J:529:PRO:CB	4:W:353:GLN:OE1	2.25	0.84
1:J:543:PRO:HG3	4:W:143:TYR:O	1.77	0.84
2:K:121:LEU:CA	2:K:128:PHE:CB	2.46	0.84
1:P:538:GLU:N	4:0:351:THR:N	2.24	0.84
1:A:707:CYS:CA	1:A:714:ARG:CZ	2.54	0.84
1:G:649:VAL:HG12	1:G:649:VAL:C	1.98	0.84
1:P:91:MET:HE3	1:P:119:SER:HB2	1.57	0.84
1:P:410:ASN:OD1	4:0:334:GLU:CA	2.24	0.84
1:P:418:THR:HB	1:P:421:GLU:HG3	1.59	0.84
1:P:792:ALA:HA	3:R:42:THR:CG2	2.05	0.84
4:1:324:THR:OG1	4:3:244:ASP:HA	1.76	0.84
1:A:646:PHE:CD2	1:A:652:LEU:HD11	2.10	0.84
1:A:752:ASP:CG	1:A:782:MLY:HD3	2.01	0.84
1:D:202:SER:HA	1:D:207:LYS:HE2	0.85	0.84
1:G:410:ASN:ND2	4:V:336:LYS:HG2	1.92	0.84
1:J:418:THR:HB	1:J:421:GLU:HG3	1.60	0.84
1:J:817:GLN:HB3	2:K:127:ARG:HD2	1.38	0.84
4:0:167:GLU:HB3	4:2:41:GLN:O	1.76	0.84
4:2:287:ILE:HD13	4:4:203:THR:CB	1.97	0.84
1:A:310:TYR:CZ	1:A:320:ILE:HD11	2.11	0.84
1:D:410:ASN:CG	4:9:334:GLU:CA	2.47	0.84
1:D:799:MET:CE	3:F:32:ASP:CB	2.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:410:ASN:ND2	4:W:336:LYS:HG2	1.92	0.84
1:J:756:THR:CG2	1:J:776:GLU:OE1	2.25	0.84
1:J:756:THR:O	1:J:776:GLU:OE1	1.93	0.84
1:P:599:ASN:OD1	1:P:649:VAL:CA	2.25	0.84
1:P:796:GLY:HA3	3:R:40:ASN:CB	2.07	0.84
4:0:205:GLU:HG3	4:Y:287:ILE:CD1	2.07	0.84
1:A:725:ARG:CZ	1:A:733:PRO:HB3	2.05	0.84
1:D:529:PRO:CB	4:9:353:GLN:OE1	2.25	0.84
1:D:725:ARG:CD	1:D:733:PRO:HB3	2.07	0.84
1:D:769:ALA:C	1:D:774:LEU:CB	2.50	0.84
1:G:538:GLU:N	4:V:351:THR:N	2.24	0.84
3:I:50:LEU:C	3:I:53:PRO:HD2	2.03	0.84
1:J:84:MLY:CH1	1:J:720:PHE:HD1	1.81	0.84
1:J:710:GLY:O	1:J:772:LEU:HB2	1.77	0.84
1:P:84:MLY:CE	1:P:724:TYR:OH	2.17	0.84
1:P:552:ASN:ND2	4:2:49:GLN:CD	2.34	0.84
4:7:287:ILE:CG2	4:9:205:GLU:HG2	2.05	0.84
1:D:798:LEU:CD1	3:F:126:LEU:CD1	2.08	0.84
1:D:815:CYS:SG	2:E:92:ASP:OD1	2.35	0.84
1:D:831:TRP:CZ2	2:E:47:LEU:CB	2.59	0.84
1:G:28:GLN:C	1:G:723:ARG:HH22	1.84	0.84
1:G:648:THR:CG2	1:G:651:ALA:HB2	2.08	0.84
1:J:202:SER:HA	1:J:207:LYS:HE2	0.85	0.84
1:J:710:GLY:CA	1:J:772:LEU:CD2	2.30	0.84
1:P:640:LYS:CB	1:P:645:SER:OG	2.25	0.84
4:W:291:LYS:HD2	4:Y:243:PRO:CB	2.07	0.84
1:A:149:GLN:NE2	1:A:718:ALA:HB2	1.90	0.84
1:A:410:ASN:ND2	4:8:336:LYS:HG2	1.93	0.84
1:D:557:GLU:H	4:W:48:GLY:HA3	1.28	0.84
3:I:139:TYR:HA	3:I:142:PHE:HB3	1.56	0.84
1:J:768:MLY:CH1	1:J:772:LEU:CD1	2.19	0.84
1:P:629:GLU:CG	1:P:643:GLY:O	2.26	0.84
1:A:542:PHE:CA	4:8:143:TYR:CE1	2.61	0.84
1:A:635:GLY:HA2	4:8:334:GLU:CG	2.03	0.84
1:D:767:PHE:O	1:D:771:LEU:CD1	2.25	0.84
3:F:50:LEU:C	3:F:53:PRO:HD2	2.03	0.84
1:J:629:GLU:CG	1:J:643:GLY:O	2.26	0.84
1:J:710:GLY:HA2	1:J:772:LEU:HD22	0.86	0.84
1:J:725:ARG:CD	1:J:733:PRO:HB3	2.07	0.84
1:P:543:PRO:HG3	4:0:143:TYR:O	1.77	0.84
1:P:734:GLU:HG3	3:R:93:VAL:HG22	1.56	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:237:GLU:HA	4:7:251:GLY:HA2	1.60	0.84
4:9:237:GLU:HA	4:9:251:GLY:HA2	1.60	0.84
4:X:286:ASP:OD1	4:Z:202:THR:OG1	1.95	0.84
1:D:640:LYS:CB	1:D:645:SER:OG	2.25	0.84
1:D:831:TRP:CE2	2:E:51:PHE:CZ	2.66	0.84
2:E:141:PRO:CB	2:E:142:PRO:CD	2.56	0.84
1:J:599:ASN:OD1	1:J:649:VAL:CA	2.25	0.84
1:J:795:ARG:NE	3:L:116:GLU:CD	2.35	0.84
1:P:797:PHE:HE2	3:R:126:LEU:CD1	1.91	0.84
1:A:149:GLN:CA	1:A:719:ASP:OD1	2.26	0.84
1:A:499:GLU:OE1	1:A:766:PHE:CE2	2.30	0.84
1:A:725:ARG:CD	1:A:733:PRO:HB3	2.08	0.84
1:D:629:GLU:CG	1:D:643:GLY:O	2.26	0.84
1:D:732:ILE:HG23	1:D:747:LEU:HB2	1.57	0.84
1:D:799:MET:SD	3:F:32:ASP:CG	2.61	0.84
1:G:725:ARG:CD	1:G:733:PRO:HB3	2.07	0.84
1:G:757:GLN:OE1	1:G:772:LEU:C	2.20	0.84
1:J:93:MET:HE1	1:J:716:LEU:HD12	1.59	0.84
1:J:204:GLU:H	1:J:207:LYS:HE3	1.42	0.84
1:P:785:GLU:C	1:P:788:THR:CB	2.51	0.84
4:2:237:GLU:HA	4:2:251:GLY:HA2	1.60	0.84
1:A:837:MLY:HH21	2:H:20:ASP:CA	2.07	0.83
1:D:538:GLU:N	4:9:351:THR:N	2.24	0.83
1:J:91:MET:HE3	1:J:119:SER:HB2	1.57	0.83
1:J:813:ILE:HG23	2:K:128:PHE:CZ	2.12	0.83
1:J:831:TRP:CH2	2:K:47:LEU:HD22	2.12	0.83
1:P:202:SER:HA	1:P:207:LYS:HE2	0.85	0.83
1:P:792:ALA:HB3	3:R:81:GLN:NE2	1.93	0.83
4:W:237:GLU:HA	4:W:251:GLY:HA2	1.60	0.83
1:A:505:MLY:CB	1:A:762:HIS:N	2.40	0.83
1:A:538:GLU:HG3	4:8:351:THR:C	2.03	0.83
1:D:648:THR:CG2	1:D:651:ALA:HB2	2.08	0.83
1:P:529:PRO:CB	4:0:353:GLN:OE1	2.25	0.83
1:P:732:ILE:HG21	1:P:747:LEU:HD13	0.90	0.83
2:Q:114:LYS:HA	2:Q:146:GLY:C	2.03	0.83
4:7:286:ASP:OD1	4:9:203:THR:CG2	2.26	0.83
4:Y:237:GLU:HA	4:Y:251:GLY:HA2	1.60	0.83
1:A:648:THR:CG2	1:A:651:ALA:HB2	2.08	0.83
1:G:753:VAL:N	1:G:780:ASP:OD1	2.10	0.83
2:H:141:PRO:CB	2:H:142:PRO:CD	2.56	0.83
1:P:725:ARG:CD	1:P:733:PRO:HB3	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:797:PHE:HE1	3:R:146:ILE:CG1	1.91	0.83
4:0:202:THR:OG1	4:Y:287:ILE:N	2.11	0.83
4:0:287:ILE:HG22	4:2:203:THR:HG22	1.60	0.83
4:2:322:PRO:CB	4:4:244:ASP:CB	2.55	0.83
4:5:237:GLU:HA	4:5:251:GLY:HA2	1.60	0.83
1:D:410:ASN:ND2	4:9:336:LYS:HG2	1.92	0.83
1:G:148:ARG:NE	1:G:764:MLY:HH21	1.92	0.83
1:G:529:PRO:CB	4:V:353:GLN:OE1	2.25	0.83
1:G:640:LYS:CB	1:G:645:SER:OG	2.25	0.83
1:G:801:VAL:CG2	3:I:126:LEU:HD21	2.05	0.83
1:J:410:ASN:CG	4:W:334:GLU:CA	2.47	0.83
1:J:534:SER:O	4:W:351:THR:HG23	1.13	0.83
1:J:561:LYS:CE	4:Y:48:GLY:HA3	2.07	0.83
1:P:410:ASN:ND2	4:0:336:LYS:HG2	1.92	0.83
1:P:538:GLU:HG3	4:0:351:THR:C	2.03	0.83
3:R:50:LEU:C	3:R:53:PRO:HD2	2.03	0.83
4:0:237:GLU:HA	4:0:251:GLY:HA2	1.60	0.83
4:3:322:PRO:HB3	4:5:244:ASP:OD2	1.78	0.83
1:A:649:VAL:HG12	1:A:649:VAL:C	1.99	0.83
1:D:549:SER:O	4:W:46:GLY:HA3	1.77	0.83
1:G:542:PHE:CA	4:V:143:TYR:CE1	2.61	0.83
1:J:218:LEU:HB3	1:J:221:GLN:HG3	1.60	0.83
1:J:538:GLU:N	4:W:351:THR:N	2.24	0.83
1:J:542:PHE:CA	4:W:143:TYR:CE1	2.61	0.83
1:J:783:LEU:O	1:J:787:ILE:HB	1.78	0.83
3:L:50:LEU:C	3:L:53:PRO:HD2	2.03	0.83
1:P:783:LEU:HG	1:P:786:ILE:HD11	0.85	0.83
4:3:287:ILE:CD1	4:5:203:THR:HB	2.06	0.83
4:W:286:ASP:OD1	4:Y:203:THR:N	2.11	0.83
1:A:543:PRO:HG3	4:8:143:TYR:O	1.77	0.83
1:D:725:ARG:C	1:D:782:MLY:HH22	2.02	0.83
1:D:730:SER:O	1:D:734:GLU:HG3	1.78	0.83
1:G:553:MLY:CH1	4:X:45:VAL:CG1	2.49	0.83
1:G:735:GLY:C	1:G:743:ALA:HB2	1.82	0.83
1:J:538:GLU:HG3	4:W:351:THR:C	2.03	0.83
1:J:788:THR:O	3:L:42:THR:CG2	2.18	0.83
1:P:648:THR:CG2	1:P:651:ALA:HB2	2.08	0.83
2:Q:141:PRO:CB	2:Q:142:PRO:CD	2.56	0.83
1:A:529:PRO:CB	4:8:353:GLN:OE1	2.25	0.83
1:D:732:ILE:HG21	1:D:747:LEU:HD13	0.91	0.83
1:G:530:MET:HE2	4:V:354:GLN:HG3	1.61	0.83

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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	0.83
1:J:730:SER:O	1:J:734:GLU:HG3	1.79	0.83
2:K:141:PRO:CB	2:K:142:PRO:CD	2.56	0.83
1:P:801:VAL:CG2	3:R:126:LEU:CD2	2.51	0.83
1:P:817:GLN:CG	2:Q:127:ARG:CD	2.55	0.83
1:P:829:TRP:CH2	2:Q:84:PHE:CE1	2.66	0.83
1:A:553:MLY:HG2	4:V:47:MET:H	1.44	0.83
1:A:732:ILE:HG23	1:A:747:LEU:HB2	1.57	0.83
1:P:503:TYR:CE1	1:P:711:PHE:CE2	2.65	0.83
1:P:730:SER:O	1:P:734:GLU:HG3	1.79	0.83
1:P:795:ARG:CZ	3:R:116:GLU:OE1	2.27	0.83
1:A:410:ASN:CG	4:8:334:GLU:CA	2.48	0.83
1:A:549:SER:O	4:V:46:GLY:HA3	1.77	0.83
1:A:629:GLU:CG	1:A:643:GLY:O	2.26	0.83
1:D:553:MLY:HG2	4:W:47:MET:H	1.44	0.83
1:D:641:LYS:HG2	1:D:647:GLN:HG3	1.61	0.83
1:D:813:ILE:CD1	2:E:128:PHE:HE1	1.89	0.83
1:D:822:SER:CB	2:E:88:LEU:CD2	2.57	0.83
1:G:543:PRO:HG3	4:V:143:TYR:O	1.78	0.83
1:G:732:ILE:HG23	1:G:747:LEU:HB2	1.57	0.83
1:P:641:LYS:HG2	1:P:647:GLN:HG3	1.61	0.83
4:4:237:GLU:HA	4:4:251:GLY:HA2	1.60	0.83
1:A:646:PHE:CE2	1:A:652:LEU:CD1	2.58	0.83
3:C:50:LEU:C	3:C:53:PRO:HD2	2.03	0.83
1:G:732:ILE:CG2	1:G:747:LEU:HD13	1.34	0.83
4:9:286:ASP:OD1	4:W:203:THR:CG2	2.26	0.83
1:A:418:THR:HB	1:A:421:GLU:HG3	1.59	0.82
1:D:279:LEU:HB2	1:D:282:GLU:HG3	1.60	0.82
1:G:418:THR:HB	1:G:421:GLU:HG3	1.60	0.82
1:P:599:ASN:OD1	1:P:649:VAL:HB	1.72	0.82
1:P:817:GLN:CG	2:Q:127:ARG:HB2	2.08	0.82
4:1:287:ILE:HG21	4:3:204:ALA:H	1.42	0.82
4:3:237:GLU:HA	4:3:251:GLY:HA2	1.60	0.82
1:A:795:ARG:NH2	3:C:116:GLU:OE2	1.97	0.82
1:D:538:GLU:HG3	4:9:351:THR:C	2.03	0.82
1:G:795:ARG:CZ	3:I:116:GLU:HB3	2.09	0.82
1:G:817:GLN:CD	2:H:127:ARG:CD	2.50	0.82
1:G:817:GLN:HG2	2:H:127:ARG:CB	2.09	0.82
1:G:829:TRP:HH2	2:H:83:MET:HE3	1.44	0.82
2:H:144:VAL:HG12	2:H:153:ILE:CD1	2.09	0.82
2:K:111:SER:OG	2:K:148:VAL:C	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:543:PRO:HG3	4:9:143:TYR:O	1.77	0.82
2:H:114:LYS:HA	2:H:146:GLY:C	2.02	0.82
1:J:279:LEU:HB2	1:J:282:GLU:HG3	1.60	0.82
1:P:410:ASN:CG	4:0:334:GLU:CA	2.47	0.82
1:P:542:PHE:CA	4:0:143:TYR:HE1	1.92	0.82
4:8:290:ARG:NH1	4:V:202:THR:HG21	1.94	0.82
1:A:149:GLN:CG	1:A:719:ASP:CG	2.52	0.82
1:A:578:HIS:HB3	1:A:592:ILE:HD12	1.62	0.82
1:A:599:ASN:OD1	1:A:649:VAL:HB	1.72	0.82
1:G:795:ARG:HB2	3:I:35:ARG:NH1	1.94	0.82
1:J:732:ILE:CG2	1:J:747:LEU:HD13	1.34	0.82
1:P:218:LEU:HB3	1:P:221:GLN:HG3	1.61	0.82
1:P:734:GLU:O	1:P:738:MET:CG	2.28	0.82
4:0:243:PRO:C	4:Y:291:LYS:NZ	2.34	0.82
1:A:505:MLY:CB	1:A:762:HIS:H	1.92	0.82
1:A:800:ARG:C	3:C:149:VAL:HG21	2.04	0.82
1:A:836:PHE:CZ	2:B:159:HIS:C	2.58	0.82
1:J:218:LEU:HA	1:J:221:GLN:HG2	1.61	0.82
2:K:121:LEU:CG	2:K:128:PHE:CA	2.48	0.82
1:P:218:LEU:HA	1:P:221:GLN:HG2	1.62	0.82
1:P:733:PRO:C	1:P:737:PHE:HD1	1.88	0.82
4:7:290:ARG:NH1	4:9:202:THR:HG21	1.94	0.82
1:A:542:PHE:CA	4:8:143:TYR:HE1	1.92	0.82
1:A:721:LYS:CA	1:A:736:GLN:NE2	2.43	0.82
1:A:795:ARG:HH22	3:C:116:GLU:CD	1.87	0.82
1:A:800:ARG:HD2	3:C:149:VAL:C	2.04	0.82
2:B:141:PRO:CB	2:B:142:PRO:CD	2.56	0.82
1:D:218:LEU:HD22	1:D:222:ILE:CG1	2.10	0.82
1:D:542:PHE:CA	4:9:143:TYR:CE1	2.61	0.82
1:J:127:ASN:HD22	1:J:128:PRO:HD2	1.44	0.82
1:J:542:PHE:CA	4:W:143:TYR:HE1	1.92	0.82
1:J:599:ASN:CA	1:J:649:VAL:CB	2.53	0.82
1:J:648:THR:CG2	1:J:651:ALA:HB2	2.08	0.82
4:8:286:ASP:OD1	4:V:203:THR:CG2	2.26	0.82
1:A:553:MLY:CB	4:V:46:GLY:CA	2.32	0.82
1:G:578:HIS:HB3	1:G:592:ILE:HD12	1.62	0.82
1:G:629:GLU:CG	1:G:643:GLY:O	2.26	0.82
1:J:218:LEU:HD22	1:J:222:ILE:CG1	2.10	0.82
1:J:641:LYS:HG2	1:J:647:GLN:HG3	1.61	0.82
1:P:127:ASN:HD22	1:P:128:PRO:HD2	1.45	0.82
1:P:530:MET:HE2	4:0:354:GLN:HG3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:MET:HE2	4:8:354:GLN:HG3	1.62	0.82
1:A:819:ASN:CG	2:B:92:ASP:H	1.87	0.82
1:D:819:ASN:CG	2:E:90:GLY:O	2.23	0.82
1:J:643:GLY:N	4:W:24:ASP:HA	1.93	0.82
1:P:218:LEU:HD22	1:P:222:ILE:CG1	2.10	0.82
1:P:279:LEU:HB2	1:P:282:GLU:HG3	1.60	0.82
1:P:786:ILE:O	1:P:787:ILE:CB	2.27	0.82
4:1:237:GLU:HA	4:1:251:GLY:HA2	1.60	0.82
1:A:127:ASN:HD22	1:A:128:PRO:HD2	1.45	0.82
1:A:218:LEU:HD22	1:A:222:ILE:CG1	2.10	0.82
1:A:640:LYS:CB	1:A:645:SER:OG	2.25	0.82
1:A:643:GLY:N	4:8:24:ASP:HA	1.93	0.82
1:D:557:GLU:N	4:W:48:GLY:HA2	1.90	0.82
1:D:629:GLU:HA	1:D:643:GLY:C	2.05	0.82
2:E:144:VAL:HG12	2:E:153:ILE:CD1	2.10	0.82
1:G:218:LEU:HD22	1:G:222:ILE:CG1	2.10	0.82
1:G:733:PRO:C	1:G:737:PHE:HD1	1.88	0.82
1:G:795:ARG:NH2	3:I:116:GLU:CD	2.30	0.82
1:P:795:ARG:CG	3:R:42:THR:HA	1.99	0.82
1:A:279:LEU:HB2	1:A:282:GLU:HG3	1.60	0.82
1:A:557:GLU:H	4:V:48:GLY:HA3	1.28	0.82
1:A:641:LYS:HG2	1:A:647:GLN:HG3	1.61	0.82
1:D:549:SER:O	4:W:46:GLY:CA	2.27	0.82
1:D:769:ALA:O	1:D:774:LEU:HB2	1.80	0.82
1:D:834:LEU:HD12	2:E:54:MET:CB	2.10	0.82
1:G:643:GLY:N	4:V:24:ASP:HA	1.94	0.82
1:G:834:LEU:CD1	2:H:51:PHE:CE1	2.63	0.82
1:J:798:LEU:HD11	3:L:126:LEU:HD11	0.82	0.82
1:J:818:TYR:CD1	2:K:127:ARG:NH1	2.48	0.82
1:P:578:HIS:HB3	1:P:592:ILE:HD12	1.62	0.82
4:8:237:GLU:HA	4:8:251:GLY:HA2	1.60	0.82
1:A:797:PHE:CE2	3:C:126:LEU:HD22	2.10	0.81
2:B:121:LEU:CG	2:B:128:PHE:CA	2.48	0.81
2:E:162:ASP:O	2:K:21:GLU:CB	2.28	0.81
1:G:755:HIS:HB2	1:G:779:ARG:NH2	1.95	0.81
2:K:150:TYR:C	2:K:151:LYS:CG	2.48	0.81
1:P:818:TYR:CE1	2:Q:127:ARG:NH1	2.48	0.81
1:P:821:ARG:HH22	2:Q:127:ARG:CG	1.88	0.81
4:1:287:ILE:HG21	4:3:202:THR:C	2.05	0.81
4:Z:237:GLU:HA	4:Z:251:GLY:HA2	1.60	0.81
1:D:734:GLU:O	1:D:738:MET:CG	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:534:SER:O	4:V:351:THR:HG23	1.12	0.81
1:J:629:GLU:HA	1:J:643:GLY:C	2.05	0.81
1:J:826:VAL:HG21	2:K:88:LEU:CD2	2.10	0.81
1:P:218:LEU:CA	1:P:221:GLN:HG2	2.10	0.81
1:A:730:SER:O	1:A:734:GLU:HG3	1.78	0.81
1:D:218:LEU:CA	1:D:221:GLN:HG2	2.10	0.81
1:D:218:LEU:HB3	1:D:221:GLN:HG3	1.61	0.81
1:D:571:ALA:O	1:D:572:LYS:CG	2.28	0.81
1:D:578:HIS:HD2	1:D:591:ASN:HA	1.45	0.81
1:D:643:GLY:N	4:9:24:ASP:HA	1.93	0.81
1:G:232:PHE:CZ	1:G:287:ILE:HD13	2.16	0.81
1:G:279:LEU:HB2	1:G:282:GLU:HG3	1.60	0.81
1:G:641:LYS:HG2	1:G:647:GLN:HG3	1.61	0.81
1:G:730:SER:O	1:G:734:GLU:HG3	1.78	0.81
1:G:792:ALA:CA	3:I:42:THR:HG22	2.07	0.81
1:J:480:ILE:HG22	1:J:481:ASN:HD22	1.45	0.81
1:J:578:HIS:HB3	1:J:592:ILE:HD12	1.62	0.81
1:J:732:ILE:HG21	1:J:747:LEU:HD13	0.91	0.81
1:P:215:GLN:N	1:P:340:ILE:CD1	2.44	0.81
1:P:629:GLU:HA	1:P:643:GLY:C	2.05	0.81
1:P:732:ILE:HG23	1:P:747:LEU:CB	1.84	0.81
1:P:734:GLU:CG	3:R:93:VAL:CG2	2.58	0.81
1:P:786:ILE:HG22	1:P:787:ILE:HB	1.62	0.81
4:V:237:GLU:HA	4:V:251:GLY:HA2	1.60	0.81
4:X:237:GLU:HA	4:X:251:GLY:HA2	1.60	0.81
1:D:127:ASN:HD22	1:D:128:PRO:HD2	1.44	0.81
1:D:725:ARG:CZ	1:D:733:PRO:HB3	2.06	0.81
1:D:795:ARG:HG2	3:F:118:MET:HE1	0.91	0.81
1:D:800:ARG:O	3:F:149:VAL:CG2	2.29	0.81
1:J:218:LEU:CA	1:J:221:GLN:HG2	2.10	0.81
1:A:549:SER:O	4:V:46:GLY:CA	2.28	0.81
2:B:114:LYS:HA	2:B:146:GLY:C	2.03	0.81
2:B:144:VAL:HG12	2:B:153:ILE:CD1	2.09	0.81
1:D:538:GLU:CA	4:9:351:THR:H	1.93	0.81
2:E:163:ALA:O	2:K:21:GLU:N	2.13	0.81
1:G:92:ALA:O	1:G:714:ARG:HG2	1.80	0.81
1:J:505:MLY:CG	1:J:762:HIS:HE1	1.90	0.81
1:J:734:GLU:O	1:J:738:MET:CG	2.28	0.81
2:K:144:VAL:HG12	2:K:153:ILE:CD1	2.10	0.81
4:9:290:ARG:NH1	4:W:202:THR:HG21	1.94	0.81
1:A:218:LEU:HA	1:A:221:GLN:HG2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:GLU:CA	4:8:351:THR:H	1.93	0.81
1:D:542:PHE:CA	4:9:143:TYR:HE1	1.92	0.81
1:D:550:PHE:CA	4:W:46:GLY:CA	2.59	0.81
1:D:795:ARG:HB3	3:F:35:ARG:HH12	1.07	0.81
1:P:641:LYS:HD2	4:0:348:SER:CA	2.09	0.81
1:P:721:LYS:HG2	1:P:736:GLN:CD	1.86	0.81
2:Q:150:TYR:C	2:Q:151:LYS:CG	2.48	0.81
4:0:201:VAL:N	4:Y:287:ILE:CG1	2.07	0.81
1:A:149:GLN:HE21	1:A:718:ALA:HB3	1.01	0.81
1:A:629:GLU:HA	1:A:643:GLY:C	2.05	0.81
1:D:641:LYS:HD2	4:9:348:SER:CA	2.09	0.81
1:G:127:ASN:HD22	1:G:128:PRO:HD2	1.45	0.81
1:G:732:ILE:HG21	1:G:747:LEU:HD13	0.91	0.81
1:P:538:GLU:CA	4:0:351:THR:H	1.93	0.81
4:2:290:ARG:HH21	4:4:202:THR:HG23	1.41	0.81
4:9:223:PHE:HE1	4:9:255:PHE:HB2	1.46	0.81
4:W:223:PHE:HE1	4:W:255:PHE:HB2	1.46	0.81
1:A:232:PHE:CZ	1:A:287:ILE:HD13	2.16	0.81
1:D:507:GLY:O	1:D:761:GLY:CA	2.29	0.81
1:G:505:MLY:CE	1:G:762:HIS:NE2	2.44	0.81
1:G:629:GLU:HA	1:G:643:GLY:C	2.05	0.81
1:P:732:ILE:HG22	1:P:747:LEU:HD12	0.81	0.81
2:B:144:VAL:CA	2:B:153:ILE:HD11	2.11	0.81
1:G:148:ARG:NH2	1:G:764:MLY:HH11	1.96	0.81
1:G:480:ILE:HG22	1:G:481:ASN:HD22	1.45	0.81
1:G:571:ALA:O	1:G:572:LYS:CG	2.28	0.81
2:H:150:TYR:C	2:H:151:LYS:CG	2.48	0.81
4:8:223:PHE:HE1	4:8:255:PHE:HB2	1.46	0.81
1:A:149:GLN:HG2	1:A:719:ASP:OD1	1.75	0.81
1:D:529:PRO:C	4:9:354:GLN:CB	2.49	0.81
1:G:797:PHE:CE1	3:I:146:ILE:CG2	2.62	0.81
1:J:578:HIS:HD2	1:J:591:ASN:HA	1.45	0.81
1:P:502:GLU:OE2	1:P:761:GLY:CA	2.27	0.81
1:P:571:ALA:O	1:P:572:LYS:CG	2.28	0.81
2:Q:144:VAL:CA	2:Q:153:ILE:HD11	2.11	0.81
1:A:97:LEU:HD22	1:A:712:PRO:HB3	1.58	0.80
1:A:646:PHE:CE2	1:A:652:LEU:HD21	2.14	0.80
1:A:837:MLY:CH2	2:H:20:ASP:HA	2.10	0.80
1:D:218:LEU:HA	1:D:221:GLN:HG2	1.62	0.80
1:G:84:MLY:HH22	1:G:719:ASP:O	1.79	0.80
1:J:641:LYS:HD2	4:W:348:SER:CA	2.09	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:542:PHE:CA	4:0:143:TYR:CE1	2.61	0.80
4:7:223:PHE:HE1	4:7:255:PHE:HB2	1.46	0.80
1:A:732:ILE:HG22	1:A:747:LEU:HD12	0.81	0.80
1:D:215:GLN:N	1:D:340:ILE:CD1	2.44	0.80
1:G:797:PHE:CE2	3:I:126:LEU:HD13	2.16	0.80
1:G:818:TYR:HB3	2:H:90:GLY:HA3	1.63	0.80
2:K:141:PRO:CB	2:K:142:PRO:HD2	2.11	0.80
1:A:550:PHE:CA	4:V:46:GLY:CA	2.59	0.80
1:A:578:HIS:HD2	1:A:591:ASN:HA	1.44	0.80
1:D:374:GLN:HG3	1:D:375:ALA:N	1.96	0.80
2:E:163:ALA:C	2:K:22:THR:N	2.40	0.80
1:G:599:ASN:CA	1:G:649:VAL:CB	2.53	0.80
1:G:641:LYS:HD2	4:V:348:SER:CA	2.10	0.80
1:J:538:GLU:CA	4:W:351:THR:H	1.93	0.80
1:J:757:GLN:NE2	1:J:777:GLU:H	1.77	0.80
1:P:813:ILE:HG23	2:Q:128:PHE:CE1	2.14	0.80
1:A:480:ILE:HG22	1:A:481:ASN:HD22	1.45	0.80
1:A:733:PRO:C	1:A:737:PHE:HD1	1.88	0.80
2:B:141:PRO:CB	2:B:142:PRO:HD2	2.11	0.80
1:D:506:GLU:HG2	1:D:764:MLY:HE2	1.62	0.80
1:D:713:SER:CB	1:D:775:LEU:HD22	2.11	0.80
2:E:111:SER:OG	2:E:148:VAL:C	2.15	0.80
1:G:93:MET:HE3	1:G:764:MLY:HD3	1.63	0.80
1:G:646:PHE:CE2	1:G:652:LEU:HD21	2.14	0.80
1:G:769:ALA:HB2	1:G:770:GLY:N	1.95	0.80
1:J:817:GLN:HG2	2:K:127:ARG:HB3	1.60	0.80
1:J:838:ILE:HD11	2:K:54:MET:HE3	0.82	0.80
2:K:144:VAL:CA	2:K:153:ILE:HD11	2.11	0.80
3:L:49:ILE:N	3:L:52:ASN:ND2	2.30	0.80
1:P:578:HIS:HD2	1:P:591:ASN:HA	1.45	0.80
1:P:641:LYS:HD2	1:P:647:GLN:OE1	1.81	0.80
2:Q:141:PRO:CB	2:Q:142:PRO:HD2	2.12	0.80
4:0:288:ASP:HB2	4:2:63:GLY:HA3	0.84	0.80
4:V:325:MET:SD	4:X:244:ASP:HB3	2.19	0.80
1:A:641:LYS:HD2	4:8:348:SER:CA	2.09	0.80
1:A:734:GLU:O	1:A:738:MET:CG	2.28	0.80
1:G:538:GLU:CA	4:V:351:THR:H	1.92	0.80
1:G:732:ILE:HG22	1:G:747:LEU:HD12	0.81	0.80
1:J:215:GLN:N	1:J:340:ILE:CD1	2.44	0.80
1:J:732:ILE:HG22	1:J:747:LEU:HD12	0.81	0.80
1:P:797:PHE:CE1	3:R:146:ILE:CB	2.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:141:PRO:HB2	2:Q:142:PRO:CD	2.11	0.80
1:A:215:GLN:N	1:A:340:ILE:CD1	2.44	0.80
1:A:769:ALA:O	1:A:772:LEU:N	2.10	0.80
1:D:232:PHE:CZ	1:D:287:ILE:HD13	2.16	0.80
1:G:578:HIS:HD2	1:G:591:ASN:HA	1.44	0.80
1:J:374:GLN:HG3	1:J:375:ALA:N	1.96	0.80
1:P:792:ALA:HB2	3:R:42:THR:HG23	1.63	0.80
1:P:797:PHE:HZ	3:R:146:ILE:HD12	1.38	0.80
4:0:205:GLU:OE2	4:Y:287:ILE:CG2	2.08	0.80
4:5:223:PHE:HE1	4:5:255:PHE:HB2	1.46	0.80
1:A:557:GLU:N	4:V:48:GLY:HA2	1.90	0.80
1:D:578:HIS:HB3	1:D:592:ILE:HD12	1.62	0.80
1:J:571:ALA:O	1:J:572:LYS:CG	2.28	0.80
1:J:784:ALA:O	1:J:788:THR:N	2.14	0.80
1:J:798:LEU:HD11	3:L:126:LEU:HD13	1.61	0.80
1:P:232:PHE:CZ	1:P:287:ILE:HD13	2.16	0.80
1:P:643:GLY:N	4:0:24:ASP:HA	1.94	0.80
3:R:49:ILE:N	3:R:52:ASN:ND2	2.30	0.80
4:X:291:LYS:HE3	4:Z:243:PRO:HB2	0.80	0.80
1:A:502:GLU:C	1:A:761:GLY:HA3	2.07	0.80
1:A:732:ILE:HG21	1:A:747:LEU:HD13	0.91	0.80
3:F:49:ILE:N	3:F:52:ASN:ND2	2.29	0.80
1:G:215:GLN:N	1:G:340:ILE:CD1	2.44	0.80
1:G:218:LEU:HA	1:G:221:GLN:HG2	1.62	0.80
1:G:734:GLU:O	1:G:738:MET:CG	2.28	0.80
1:G:795:ARG:NE	3:I:116:GLU:OE2	2.15	0.80
1:J:733:PRO:C	1:J:737:PHE:HD1	1.88	0.80
1:J:836:PHE:CE2	2:K:160:GLY:N	2.48	0.80
2:K:141:PRO:HB2	2:K:142:PRO:CD	2.12	0.80
1:P:732:ILE:CG2	1:P:747:LEU:HD13	1.34	0.80
1:P:820:VAL:HG11	2:Q:136:MET:HE3	1.64	0.80
1:A:374:GLN:HG3	1:A:375:ALA:N	1.96	0.80
2:B:141:PRO:HB2	2:B:142:PRO:CD	2.12	0.80
1:D:480:ILE:HG22	1:D:481:ASN:HD22	1.45	0.80
2:E:141:PRO:HB2	2:E:142:PRO:CD	2.12	0.80
1:G:797:PHE:CD1	3:I:146:ILE:CG2	2.58	0.80
1:G:797:PHE:HE2	3:I:126:LEU:HD22	1.43	0.80
2:H:121:LEU:CG	2:H:128:PHE:CA	2.49	0.80
1:P:503:TYR:HE1	1:P:711:PHE:CD2	1.94	0.80
1:P:725:ARG:CZ	3:R:93:VAL:HG11	2.12	0.80
1:P:797:PHE:HD1	3:R:146:ILE:CG2	1.54	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:223:PHE:HE1	4:2:255:PHE:HB2	1.46	0.80
4:X:223:PHE:HE1	4:X:255:PHE:HB2	1.46	0.80
1:A:599:ASN:CA	1:A:649:VAL:CB	2.53	0.80
1:G:374:GLN:HG3	1:G:375:ALA:N	1.96	0.80
1:G:542:PHE:CA	4:V:143:TYR:HE1	1.93	0.80
1:G:641:LYS:HD2	4:V:348:SER:HB2	1.54	0.80
1:G:817:GLN:CD	2:H:127:ARG:HB2	2.06	0.80
1:G:820:VAL:HG11	2:H:136:MET:CE	2.12	0.80
1:J:791:GLN:OE1	3:L:116:GLU:HG3	1.82	0.80
1:P:785:GLU:O	1:P:788:THR:CB	2.29	0.80
4:0:173:HIS:CD2	4:1:268:GLY:HA3	2.17	0.80
4:V:223:PHE:HE1	4:V:255:PHE:HB2	1.46	0.80
1:A:571:ALA:O	1:A:572:LYS:CG	2.28	0.79
1:G:84:MLY:CH1	1:G:724:TYR:CZ	2.62	0.79
1:G:755:HIS:H	1:G:779:ARG:NE	1.81	0.79
1:J:829:TRP:CE3	2:K:87:LYS:NZ	2.49	0.79
1:P:735:GLY:C	1:P:743:ALA:HB1	1.84	0.79
2:E:144:VAL:CA	2:E:153:ILE:HD11	2.11	0.79
1:G:93:MET:SD	1:G:716:LEU:N	2.55	0.79
1:J:232:PHE:CZ	1:J:287:ILE:HD13	2.16	0.79
1:P:529:PRO:C	4:0:354:GLN:CB	2.48	0.79
1:P:829:TRP:CZ3	2:Q:87:LYS:NZ	2.46	0.79
4:1:203:THR:H	4:Z:287:ILE:HB	1.45	0.79
1:A:641:LYS:HD2	4:8:348:SER:HB2	1.54	0.79
3:C:49:ILE:N	3:C:52:ASN:ND2	2.29	0.79
1:J:817:GLN:HG3	2:K:128:PHE:CE1	2.16	0.79
1:P:480:ILE:HG22	1:P:481:ASN:HD22	1.45	0.79
2:Q:117:LEU:HB2	2:Q:147:ASN:HD21	1.47	0.79
4:1:287:ILE:HG13	4:3:202:THR:HA	1.64	0.79
4:1:288:ASP:N	4:3:203:THR:CG2	2.45	0.79
4:3:223:PHE:HE1	4:3:255:PHE:HB2	1.46	0.79
1:D:721:LYS:HG2	1:D:736:GLN:CD	1.86	0.79
1:D:732:ILE:CG2	1:D:747:LEU:HD13	1.34	0.79
1:D:732:ILE:HG22	1:D:747:LEU:HD12	0.81	0.79
1:D:834:LEU:HD11	2:E:54:MET:CB	2.12	0.79
1:G:707:CYS:SG	1:G:714:ARG:NH1	2.55	0.79
3:I:49:ILE:N	3:I:52:ASN:ND2	2.29	0.79
1:P:797:PHE:HZ	3:R:146:ILE:CD1	1.91	0.79
1:P:803:TYR:CG	1:P:807:VAL:HG21	2.17	0.79
1:A:174:SER:CB	1:A:667:THR:HG21	2.13	0.79
1:A:218:LEU:CA	1:A:221:GLN:HG2	2.10	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:MLY:HB3	1:G:723:ARG:CD	2.10	0.79
1:J:792:ALA:HA	3:L:42:THR:CA	2.11	0.79
1:J:797:PHE:HE1	3:L:146:ILE:HA	1.47	0.79
4:4:223:PHE:HE1	4:4:255:PHE:HB2	1.46	0.79
4:8:287:ILE:HB	4:V:204:ALA:N	1.97	0.79
1:A:534:SER:C	4:8:351:THR:CA	2.47	0.79
1:A:732:ILE:CG2	1:A:747:LEU:HD13	1.34	0.79
1:G:218:LEU:CA	1:G:221:GLN:HG2	2.10	0.79
2:H:141:PRO:CB	2:H:142:PRO:HD2	2.11	0.79
1:P:785:GLU:C	1:P:788:THR:OG1	2.25	0.79
1:P:796:GLY:HA3	3:R:40:ASN:CG	2.08	0.79
1:A:641:LYS:CE	1:A:647:GLN:CG	2.60	0.79
1:D:641:LYS:CE	1:D:647:GLN:HB2	2.13	0.79
1:G:537:GLU:O	4:V:350:SER:N	2.16	0.79
2:H:144:VAL:CA	2:H:153:ILE:HD11	2.11	0.79
1:J:407:GLY:HA2	1:J:412:ALA:HA	1.65	0.79
1:P:831:TRP:CH2	2:Q:47:LEU:HD22	1.96	0.79
4:1:203:THR:N	4:Z:287:ILE:HG21	1.98	0.79
1:A:721:LYS:CB	1:A:736:GLN:CD	2.56	0.79
1:A:834:LEU:HD21	2:B:54:MET:HE3	0.83	0.79
1:G:174:SER:CB	1:G:667:THR:HG21	2.13	0.79
1:G:505:MLY:HH23	1:G:762:HIS:CG	2.18	0.79
1:G:505:MLY:CH2	1:G:762:HIS:HE1	0.61	0.79
1:G:721:LYS:CB	1:G:736:GLN:CD	2.56	0.79
2:H:141:PRO:HB2	2:H:142:PRO:CD	2.11	0.79
1:P:721:LYS:CB	1:P:736:GLN:CD	2.56	0.79
1:A:409:GLY:N	1:A:636:LYS:CG	2.44	0.79
1:A:537:GLU:O	4:8:350:SER:N	2.16	0.79
1:D:537:GLU:O	4:9:350:SER:N	2.16	0.79
2:E:114:LYS:HA	2:E:146:GLY:C	2.03	0.79
2:E:141:PRO:CB	2:E:142:PRO:HD2	2.11	0.79
1:G:28:GLN:HB3	1:G:723:ARG:CZ	2.12	0.79
1:J:769:ALA:CB	1:J:770:GLY:CA	2.61	0.79
4:0:223:PHE:HE1	4:0:255:PHE:HB2	1.46	0.79
1:A:550:PHE:N	4:V:46:GLY:HA3	1.97	0.79
1:A:553:MLY:NZ	4:V:45:VAL:HA	1.84	0.79
1:D:409:GLY:N	1:D:636:LYS:CG	2.44	0.79
1:D:550:PHE:HA	4:W:46:GLY:HA2	1.64	0.79
1:G:407:GLY:HA2	1:G:412:ALA:HA	1.65	0.79
1:J:642:LYS:CG	4:W:23:GLY:H	1.77	0.79
1:J:796:GLY:N	3:L:35:ARG:CZ	2.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:829:TRP:HZ3	2:K:84:PHE:CZ	2.01	0.79
1:P:599:ASN:CA	1:P:649:VAL:CB	2.53	0.79
1:P:795:ARG:NE	3:R:116:GLU:CD	2.38	0.79
2:Q:144:VAL:HG12	2:Q:153:ILE:CD1	2.10	0.79
1:A:93:MET:HE2	1:A:715:VAL:CG1	2.12	0.78
1:G:795:ARG:NE	3:I:116:GLU:CD	2.40	0.78
1:J:409:GLY:N	1:J:636:LYS:CG	2.44	0.78
4:1:202:THR:CB	4:Z:287:ILE:HG21	2.13	0.78
1:A:28:GLN:NE2	1:A:723:ARG:HH21	1.81	0.78
1:A:149:GLN:HB2	1:A:718:ALA:HB1	1.64	0.78
1:A:550:PHE:HA	4:V:46:GLY:HA2	1.65	0.78
1:D:747:LEU:HD11	1:D:782:MLY:CH2	2.13	0.78
1:G:642:LYS:HG2	4:V:22:ALA:HA	1.65	0.78
1:J:639:GLY:CA	4:W:345:ILE:N	2.46	0.78
1:J:641:LYS:CE	1:J:647:GLN:HB2	2.13	0.78
1:J:795:ARG:O	3:L:35:ARG:NH2	2.16	0.78
1:P:407:GLY:HA2	1:P:412:ALA:HA	1.65	0.78
1:P:552:ASN:ND2	4:2:49:GLN:HG3	1.82	0.78
1:P:804:ARG:O	1:P:808:GLU:CB	2.30	0.78
4:Y:223:PHE:HE1	4:Y:255:PHE:HB2	1.46	0.78
4:Z:223:PHE:HE1	4:Z:255:PHE:HB2	1.46	0.78
1:A:831:TRP:CH2	2:B:34:ILE:HG23	2.17	0.78
1:D:407:GLY:HA2	1:D:412:ALA:HA	1.65	0.78
1:D:838:ILE:HD11	2:E:54:MET:SD	2.24	0.78
1:G:291:ILE:HA	1:G:331:LEU:HD11	1.64	0.78
1:G:567:LYS:HZ3	4:X:92:ASN:HD22	1.28	0.78
1:J:28:GLN:OE1	1:J:723:ARG:CG	2.31	0.78
1:D:481:ASN:HD22	1:D:481:ASN:N	1.82	0.78
1:G:754:ASP:CA	1:G:776:GLU:CD	2.57	0.78
2:K:117:LEU:HB2	2:K:147:ASN:HD21	1.47	0.78
1:P:166:MET:HE1	1:P:254:PHE:CD2	2.19	0.78
1:P:174:SER:CB	1:P:667:THR:HG21	2.13	0.78
1:P:409:GLY:N	1:P:636:LYS:CG	2.44	0.78
1:P:641:LYS:CE	1:P:647:GLN:HB2	2.13	0.78
1:P:725:ARG:CZ	1:P:733:PRO:HB3	2.06	0.78
1:P:785:GLU:C	1:P:788:THR:HB	2.09	0.78
1:P:795:ARG:NE	3:R:116:GLU:OE1	2.17	0.78
4:1:223:PHE:HE1	4:1:255:PHE:HB2	1.46	0.78
4:7:287:ILE:HB	4:9:204:ALA:N	1.97	0.78
4:9:287:ILE:HB	4:W:204:ALA:N	1.97	0.78
1:A:51:THR:O	1:A:62:VAL:HG13	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:HG2	4:8:22:ALA:HA	1.66	0.78
1:A:837:MLY:HH22	2:H:21:GLU:H	1.47	0.78
1:D:713:SER:HB2	1:D:775:LEU:CD2	2.13	0.78
1:P:646:PHE:HE2	1:P:652:LEU:CD2	1.97	0.78
1:A:166:MET:HE1	1:A:254:PHE:CD2	2.19	0.78
1:A:795:ARG:HG2	3:C:118:MET:CE	2.07	0.78
1:D:507:GLY:HA3	1:D:762:HIS:CB	2.13	0.78
1:J:174:SER:CB	1:J:667:THR:HG21	2.13	0.78
1:J:721:LYS:CA	1:J:736:GLN:NE2	2.43	0.78
1:J:801:VAL:HG21	3:L:126:LEU:CD2	2.13	0.78
1:P:496:PHE:CD2	1:P:514:ASP:HA	2.19	0.78
1:P:537:GLU:O	4:0:350:SER:N	2.16	0.78
4:1:203:THR:N	4:Z:287:ILE:CG2	2.45	0.78
4:3:322:PRO:HB3	4:5:244:ASP:CB	2.10	0.78
1:A:797:PHE:CZ	3:C:146:ILE:HD12	2.01	0.78
1:D:166:MET:HE1	1:D:254:PHE:CD2	2.19	0.78
1:D:291:ILE:HA	1:D:331:LEU:HD11	1.64	0.78
1:D:797:PHE:CE1	3:F:146:ILE:CG2	2.60	0.78
1:D:799:MET:HE1	3:F:32:ASP:CB	2.11	0.78
1:G:51:THR:O	1:G:62:VAL:HG13	1.84	0.78
1:G:646:PHE:HE2	1:G:652:LEU:CD2	1.97	0.78
1:G:795:ARG:CG	3:I:118:MET:CE	2.37	0.78
1:J:51:THR:O	1:J:62:VAL:HG13	1.84	0.78
1:J:291:ILE:HA	1:J:331:LEU:HD11	1.64	0.78
1:J:646:PHE:HE2	1:J:652:LEU:CD2	1.97	0.78
1:A:149:GLN:CB	1:A:718:ALA:CB	2.50	0.78
1:A:149:GLN:HG2	1:A:719:ASP:CB	2.13	0.78
1:A:818:TYR:CB	2:B:90:GLY:CA	2.57	0.78
1:A:834:LEU:HD21	2:B:54:MET:HE1	1.54	0.78
1:D:506:GLU:CG	1:D:764:MLY:HE2	2.11	0.78
1:D:550:PHE:N	4:W:46:GLY:HA3	1.97	0.78
1:D:793:ARG:HH21	3:F:147:MET:CE	1.97	0.78
1:J:166:MET:HE1	1:J:254:PHE:CD2	2.19	0.78
1:J:529:PRO:C	4:W:354:GLN:CB	2.49	0.78
1:J:754:ASP:CG	1:J:780:ASP:OD2	2.14	0.78
4:1:324:THR:HG23	4:3:244:ASP:CA	2.14	0.78
4:3:288:ASP:N	4:5:203:THR:CG2	2.46	0.78
1:A:131:TRP:C	1:A:132:LEU:HD12	2.09	0.78
1:A:291:ILE:HA	1:A:331:LEU:HD11	1.64	0.78
1:A:529:PRO:C	4:8:354:GLN:CB	2.49	0.78
1:G:219:GLU:O	1:G:223:ILE:HG13	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:496:PHE:CD2	1:J:514:ASP:HA	2.19	0.78
1:J:537:GLU:O	4:W:350:SER:N	2.16	0.78
1:J:826:VAL:HG21	2:K:88:LEU:HD21	1.66	0.78
1:J:829:TRP:CH2	2:K:83:MET:HE3	2.19	0.78
1:A:800:ARG:C	3:C:149:VAL:CG2	2.56	0.78
1:D:496:PHE:CD2	1:D:514:ASP:HA	2.19	0.78
1:D:639:GLY:CA	4:9:345:ILE:N	2.47	0.78
1:D:721:LYS:CA	1:D:736:GLN:NE2	2.43	0.78
1:G:166:MET:HE1	1:G:254:PHE:CD2	2.19	0.78
1:J:789:ALA:CB	3:L:81:GLN:CD	2.58	0.78
1:P:51:THR:O	1:P:62:VAL:HG13	1.84	0.78
1:P:639:GLY:CA	4:0:345:ILE:N	2.46	0.78
1:P:721:LYS:CA	1:P:736:GLN:NE2	2.43	0.78
1:P:733:PRO:HG2	3:R:93:VAL:HG21	1.67	0.78
4:2:322:PRO:HB2	4:4:244:ASP:HB2	1.66	0.78
1:A:496:PHE:CD2	1:A:514:ASP:HA	2.19	0.77
1:A:502:GLU:HG3	1:A:760:PHE:C	2.08	0.77
1:A:505:MLY:HB3	1:A:762:HIS:N	1.96	0.77
1:D:51:THR:O	1:D:62:VAL:HG13	1.84	0.77
1:G:496:PHE:CD2	1:G:514:ASP:HA	2.19	0.77
1:J:530:MET:CG	4:W:354:GLN:CB	2.30	0.77
1:P:505:MLY:HE3	1:P:762:HIS:HE1	0.95	0.77
1:P:818:TYR:HB3	2:Q:90:GLY:HA3	1.66	0.77
4:0:243:PRO:HG2	4:Y:288:ASP:HB3	1.65	0.77
4:3:322:PRO:CB	4:5:244:ASP:CG	2.54	0.77
4:X:291:LYS:HE2	4:Z:243:PRO:O	1.82	0.77
1:A:219:GLU:O	1:A:223:ILE:HG13	1.84	0.77
3:C:49:ILE:N	3:C:52:ASN:HD22	1.82	0.77
1:G:84:MLY:HH21	1:G:720:PHE:HA	1.63	0.77
1:G:639:GLY:CA	4:V:345:ILE:N	2.47	0.77
1:G:721:LYS:CA	1:G:736:GLN:NE2	2.43	0.77
1:G:818:TYR:CZ	2:H:127:ARG:NH1	2.52	0.77
1:J:710:GLY:C	1:J:772:LEU:HD22	2.07	0.77
1:P:219:GLU:O	1:P:223:ILE:HG13	1.84	0.77
1:P:290:GLN:C	1:P:331:LEU:HD12	2.09	0.77
1:P:786:ILE:HG23	1:P:787:ILE:HB	0.78	0.77
4:1:203:THR:HG22	4:Z:288:ASP:N	1.99	0.77
4:4:223:PHE:HD2	4:4:312:ARG:HH21	1.32	0.77
1:D:820:VAL:HG11	2:E:136:MET:HE1	1.65	0.77
1:G:409:GLY:N	1:G:636:LYS:CG	2.44	0.77
1:J:116:TYR:O	1:J:153:PRO:HB2	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:721:LYS:HG2	1:J:736:GLN:CD	1.86	0.77
1:J:819:ASN:ND2	2:K:92:ASP:CB	2.38	0.77
1:P:116:TYR:O	1:P:153:PRO:HB2	1.85	0.77
1:P:374:GLN:HG3	1:P:375:ALA:N	1.96	0.77
4:W:223:PHE:HD2	4:W:312:ARG:HH21	1.33	0.77
1:A:407:GLY:HA2	1:A:412:ALA:HA	1.65	0.77
1:D:599:ASN:CA	1:D:649:VAL:CB	2.53	0.77
1:D:646:PHE:CE2	1:D:652:LEU:HD21	2.14	0.77
3:F:3:SER:O	3:F:4:LYS:HB2	1.84	0.77
3:F:49:ILE:N	3:F:52:ASN:HD22	1.82	0.77
1:J:831:TRP:CZ2	2:K:47:LEU:HD22	2.18	0.77
1:P:291:ILE:HA	1:P:331:LEU:HD11	1.64	0.77
4:1:202:THR:HA	4:Z:287:ILE:HG12	1.67	0.77
4:9:223:PHE:HD2	4:9:312:ARG:HH21	1.33	0.77
4:X:291:LYS:CE	4:Z:243:PRO:CA	2.61	0.77
1:A:556:ASP:HA	4:V:49:GLN:O	1.70	0.77
3:C:3:SER:O	3:C:4:LYS:HB2	1.84	0.77
1:D:530:MET:HE2	4:9:354:GLN:HG3	1.62	0.77
1:D:733:PRO:C	1:D:737:PHE:HD1	1.88	0.77
1:D:795:ARG:CD	3:F:35:ARG:HH12	1.97	0.77
1:J:721:LYS:CB	1:J:736:GLN:CD	2.56	0.77
4:1:324:THR:CB	4:3:244:ASP:HA	2.14	0.77
4:5:223:PHE:HD2	4:5:312:ARG:HH21	1.33	0.77
1:A:798:LEU:HD21	3:C:126:LEU:HD11	1.64	0.77
1:D:116:TYR:O	1:D:153:PRO:HB2	1.85	0.77
1:D:819:ASN:HB2	2:E:90:GLY:O	1.84	0.77
1:G:116:TYR:O	1:G:153:PRO:HB2	1.85	0.77
1:G:830:PRO:CB	2:H:67:MET:CE	2.61	0.77
1:J:567:LYS:HZ1	4:Y:92:ASN:HD22	1.32	0.77
1:A:641:LYS:CE	1:A:647:GLN:HB2	2.13	0.77
1:D:94:MET:CE	1:D:101:ALA:HB1	2.15	0.77
1:D:795:ARG:HH21	3:F:116:GLU:CB	1.97	0.77
2:E:163:ALA:C	2:K:22:THR:H	1.92	0.77
1:G:534:SER:C	4:V:351:THR:CA	2.48	0.77
1:J:530:MET:HE2	4:W:354:GLN:HG3	1.61	0.77
2:K:121:LEU:CG	2:K:128:PHE:HA	2.14	0.77
1:P:131:TRP:C	1:P:132:LEU:HD12	2.09	0.77
1:P:753:VAL:CG1	1:P:775:LEU:HD11	2.14	0.77
4:0:245:GLY:H	4:Y:291:LYS:HB2	1.49	0.77
4:7:223:PHE:HD2	4:7:312:ARG:HH21	1.33	0.77
4:8:223:PHE:HD2	4:8:312:ARG:HH21	1.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:SER:CB	1:D:667:THR:HG21	2.13	0.77
1:G:817:GLN:NE2	2:H:128:PHE:CE1	2.53	0.77
2:K:114:LYS:HA	2:K:146:GLY:C	2.03	0.77
4:O:166:TYR:OH	4:2:64:ILE:HD13	1.85	0.77
4:O:223:PHE:HD2	4:O:312:ARG:HH21	1.33	0.77
4:Y:223:PHE:HD2	4:Y:312:ARG:HH21	1.33	0.77
1:A:639:GLY:CA	4:8:345:ILE:N	2.47	0.77
1:A:725:ARG:HG3	1:A:733:PRO:HA	1.67	0.77
1:D:642:LYS:HG2	4:9:22:ALA:HA	1.65	0.77
1:D:708:ARG:HA	1:D:710:GLY:N	2.00	0.77
1:P:803:TYR:CE1	1:P:807:VAL:HG13	2.19	0.77
4:1:324:THR:CG2	4:3:244:ASP:CA	2.59	0.77
4:2:223:PHE:HD2	4:2:312:ARG:HH21	1.33	0.77
4:3:288:ASP:H	4:5:203:THR:CG2	1.98	0.77
4:Z:223:PHE:HD2	4:Z:312:ARG:HH21	1.33	0.77
1:A:646:PHE:HE2	1:A:652:LEU:CD2	1.97	0.77
1:A:837:MLY:HH21	2:H:20:ASP:CB	2.15	0.77
1:D:646:PHE:HE2	1:D:652:LEU:CD2	1.97	0.77
1:G:290:GLN:C	1:G:331:LEU:HD12	2.09	0.77
1:J:219:GLU:O	1:J:223:ILE:HG13	1.84	0.77
1:P:94:MET:CE	1:P:101:ALA:HB1	2.15	0.77
1:P:530:MET:CG	4:O:354:GLN:CB	2.30	0.77
1:P:786:ILE:C	1:P:788:THR:N	2.42	0.77
1:P:829:TRP:HZ3	2:Q:84:PHE:CE2	2.03	0.77
4:1:288:ASP:OD1	4:3:203:THR:HG23	1.84	0.77
1:A:218:LEU:HD22	1:A:222:ILE:HG12	1.67	0.76
1:A:502:GLU:HG3	1:A:761:GLY:HA3	1.49	0.76
1:A:791:GLN:OE1	3:C:116:GLU:CG	2.29	0.76
1:D:217:THR:C	1:D:221:GLN:HE21	1.92	0.76
1:D:219:GLU:O	1:D:223:ILE:HG13	1.84	0.76
1:D:792:ALA:CB	3:F:42:THR:CG2	2.20	0.76
1:G:131:TRP:C	1:G:132:LEU:HD12	2.09	0.76
1:G:218:LEU:HD22	1:G:222:ILE:HG12	1.67	0.76
1:G:503:TYR:HE1	1:G:711:PHE:CD2	1.99	0.76
1:G:725:ARG:HG3	1:G:733:PRO:HA	1.67	0.76
1:G:769:ALA:O	1:G:773:GLY:HA2	1.85	0.76
1:J:131:TRP:C	1:J:132:LEU:HD12	2.10	0.76
1:J:218:LEU:HD22	1:J:222:ILE:HG12	1.67	0.76
1:J:818:TYR:HE1	2:K:127:ARG:NH2	1.75	0.76
1:P:218:LEU:HD22	1:P:222:ILE:HG12	1.66	0.76
1:P:795:ARG:CG	3:R:35:ARG:NH1	2.47	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:49:ILE:N	3:R:52:ASN:HD22	1.82	0.76
1:A:94:MET:CE	1:A:101:ALA:HB1	2.15	0.76
1:A:732:ILE:N	1:A:733:PRO:HD2	2.00	0.76
1:D:131:TRP:C	1:D:132:LEU:HD12	2.09	0.76
1:D:290:GLN:C	1:D:331:LEU:HD12	2.09	0.76
1:D:635:GLY:HA3	4:9:341:ILE:CD1	2.14	0.76
1:D:721:LYS:CB	1:D:736:GLN:CD	2.56	0.76
2:E:121:LEU:CG	2:E:128:PHE:HA	2.14	0.76
1:G:218:LEU:HB2	1:G:221:GLN:CG	2.09	0.76
1:G:503:TYR:CE1	1:G:711:PHE:HE2	1.99	0.76
1:G:641:LYS:HD2	1:G:647:GLN:OE1	1.81	0.76
1:J:290:GLN:C	1:J:331:LEU:HD12	2.09	0.76
1:J:481:ASN:HD22	1:J:481:ASN:N	1.82	0.76
1:P:641:LYS:CE	1:P:647:GLN:CG	2.60	0.76
1:P:797:PHE:HE1	3:R:146:ILE:CB	1.99	0.76
4:3:223:PHE:HD2	4:3:312:ARG:HH21	1.33	0.76
4:3:324:THR:CG2	4:5:244:ASP:N	2.32	0.76
4:X:223:PHE:HD2	4:X:312:ARG:HH21	1.32	0.76
1:D:641:LYS:CE	1:D:647:GLN:CG	2.60	0.76
1:A:217:THR:C	1:A:221:GLN:HE21	1.93	0.76
1:A:623:PHE:CG	1:A:623:PHE:CA	2.68	0.76
1:A:830:PRO:HB2	2:B:51:PHE:CE1	2.20	0.76
1:D:553:MLY:NZ	4:W:45:VAL:HA	1.84	0.76
1:G:757:GLN:CB	1:G:776:GLU:CG	2.64	0.76
1:J:94:MET:CE	1:J:101:ALA:HB1	2.15	0.76
1:J:635:GLY:HA3	4:W:341:ILE:CD1	2.14	0.76
1:J:725:ARG:HG3	1:J:733:PRO:HA	1.67	0.76
1:D:534:SER:O	4:9:351:THR:N	2.19	0.76
1:D:727:LEU:N	1:D:782:MLY:CE	2.49	0.76
1:D:830:PRO:HB2	2:E:51:PHE:CZ	2.21	0.76
1:D:831:TRP:HZ2	2:E:47:LEU:CA	1.93	0.76
1:G:641:LYS:CE	1:G:647:GLN:HB2	2.13	0.76
1:G:641:LYS:CE	1:G:647:GLN:CG	2.60	0.76
1:J:646:PHE:CE2	1:J:652:LEU:HD21	2.14	0.76
1:J:817:GLN:HG2	2:K:127:ARG:CG	2.15	0.76
3:L:49:ILE:N	3:L:52:ASN:HD22	1.82	0.76
1:P:635:GLY:HA3	4:0:341:ILE:CD1	2.14	0.76
1:P:721:LYS:CA	1:P:736:GLN:OE1	2.33	0.76
4:1:202:THR:C	4:Z:287:ILE:HG21	2.09	0.76
4:1:287:ILE:HG13	4:3:202:THR:CA	2.16	0.76
4:V:223:PHE:HD2	4:V:312:ARG:HH21	1.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:GLN:C	1:A:331:LEU:HD12	2.09	0.76
1:A:809:ARG:NH1	2:B:124:GLY:HA2	2.00	0.76
2:B:121:LEU:CG	2:B:128:PHE:HA	2.14	0.76
1:D:721:LYS:CA	1:D:736:GLN:OE1	2.33	0.76
1:G:84:MLY:CB	1:G:723:ARG:HD2	2.08	0.76
1:G:817:GLN:HG2	2:H:127:ARG:HB2	1.67	0.76
1:J:217:THR:C	1:J:221:GLN:HE21	1.92	0.76
1:J:641:LYS:CE	1:J:647:GLN:CG	2.61	0.76
1:J:829:TRP:CZ3	2:K:84:PHE:CZ	2.74	0.76
1:P:217:THR:C	1:P:221:GLN:HE21	1.92	0.76
4:1:223:PHE:HD2	4:1:312:ARG:HH21	1.33	0.76
4:2:290:ARG:NH2	4:4:202:THR:HG21	1.60	0.76
4:W:291:LYS:HB3	4:Y:244:ASP:HB3	1.66	0.76
1:D:664:LEU:O	1:D:667:THR:HB	1.86	0.76
1:G:530:MET:CG	4:V:354:GLN:CB	2.30	0.76
3:I:3:SER:O	3:I:4:LYS:HB2	1.84	0.76
1:P:767:PHE:CE1	1:P:772:LEU:HD11	2.20	0.76
4:2:324:THR:HG21	4:4:243:PRO:C	2.11	0.76
4:9:290:ARG:NH1	4:W:202:THR:CG2	2.49	0.76
1:A:218:LEU:HB2	1:A:221:GLN:CG	2.09	0.76
1:A:798:LEU:CD1	3:C:126:LEU:CD1	2.57	0.76
1:G:505:MLY:HD2	1:G:762:HIS:NE2	2.01	0.76
1:G:721:LYS:CA	1:G:736:GLN:OE1	2.33	0.76
1:J:623:PHE:CG	1:J:623:PHE:CA	2.68	0.76
1:P:642:LYS:HG2	4:O:22:ALA:HA	1.65	0.76
1:A:797:PHE:CE1	3:C:146:ILE:C	2.63	0.76
1:D:623:PHE:CG	1:D:623:PHE:CA	2.68	0.76
1:D:649:VAL:CG1	1:D:649:VAL:CB	2.64	0.76
1:G:217:THR:C	1:G:221:GLN:HE21	1.92	0.76
1:G:649:VAL:CG1	1:G:649:VAL:CB	2.64	0.76
1:G:795:ARG:HH21	3:I:116:GLU:CB	1.98	0.76
2:H:121:LEU:CG	2:H:128:PHE:HA	2.14	0.76
1:P:817:GLN:HB3	2:Q:127:ARG:CD	2.15	0.76
1:P:829:TRP:CZ2	2:Q:87:LYS:HE2	2.20	0.76
4:O:166:TYR:CE1	4:2:64:ILE:HG21	2.21	0.76
1:A:823:PHE:HE1	2:B:160:GLY:HA2	1.34	0.76
2:B:117:LEU:HB2	2:B:147:ASN:HD21	1.47	0.76
1:G:754:ASP:O	1:G:776:GLU:OE1	2.04	0.76
1:G:757:GLN:OE1	1:G:772:LEU:CA	2.34	0.76
4:8:290:ARG:NH1	4:V:202:THR:CG2	2.49	0.76
1:A:116:TYR:O	1:A:153:PRO:HB2	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:LEU:HB3	1:A:221:GLN:HG3	1.61	0.75
1:A:501:GLU:O	1:A:762:HIS:NE2	2.18	0.75
1:A:753:VAL:CG1	1:A:775:LEU:CG	2.19	0.75
1:G:534:SER:O	4:V:351:THR:N	2.20	0.75
1:G:538:GLU:OE2	4:V:355:MET:HE2	1.87	0.75
1:G:732:ILE:N	1:G:733:PRO:HD2	2.00	0.75
3:I:49:ILE:N	3:I:52:ASN:HD22	1.82	0.75
1:J:721:LYS:CA	1:J:736:GLN:OE1	2.33	0.75
1:P:481:ASN:HD22	1:P:481:ASN:N	1.82	0.75
1:P:623:PHE:CG	1:P:623:PHE:CA	2.68	0.75
1:P:733:PRO:C	1:P:737:PHE:CD1	2.62	0.75
1:A:664:LEU:O	1:A:667:THR:HB	1.86	0.75
1:A:797:PHE:HE2	3:C:126:LEU:CD2	1.98	0.75
1:A:818:TYR:CB	2:B:90:GLY:N	2.48	0.75
1:D:642:LYS:CG	4:9:23:GLY:H	1.77	0.75
1:D:732:ILE:N	1:D:733:PRO:HD2	2.00	0.75
1:D:795:ARG:CG	3:F:35:ARG:HH12	1.99	0.75
1:P:817:GLN:HG3	2:Q:128:PHE:CE1	2.21	0.75
4:W:324:THR:CG2	4:Y:247:VAL:HG22	2.16	0.75
1:A:800:ARG:O	3:C:149:VAL:CG2	2.33	0.75
1:G:94:MET:CE	1:G:101:ALA:HB1	2.15	0.75
1:G:830:PRO:HB3	2:H:67:MET:CE	2.16	0.75
1:J:642:LYS:HG2	4:W:22:ALA:HA	1.65	0.75
1:J:769:ALA:HB2	1:J:770:GLY:CA	2.16	0.75
1:P:538:GLU:O	4:0:349:LEU:HG	1.86	0.75
4:0:205:GLU:CG	4:Y:287:ILE:CB	2.03	0.75
1:A:649:VAL:CG1	1:A:649:VAL:CB	2.64	0.75
1:D:713:SER:HB2	1:D:775:LEU:HD21	1.68	0.75
1:D:831:TRP:CH2	2:E:34:ILE:CG2	2.64	0.75
1:G:481:ASN:HD22	1:G:481:ASN:N	1.82	0.75
1:G:623:PHE:CG	1:G:623:PHE:CA	2.68	0.75
1:G:817:GLN:CG	2:H:127:ARG:HD2	2.16	0.75
1:J:541:MET:O	4:W:143:TYR:CZ	2.40	0.75
1:P:534:SER:O	4:0:351:THR:N	2.19	0.75
1:P:541:MET:O	4:0:143:TYR:CZ	2.40	0.75
1:P:836:PHE:CZ	2:Q:159:HIS:HA	2.20	0.75
4:3:322:PRO:CB	4:5:244:ASP:HB2	2.14	0.75
1:A:721:LYS:CA	1:A:736:GLN:OE1	2.33	0.75
1:D:727:LEU:N	1:D:782:MLY:HE2	2.02	0.75
2:E:117:LEU:HB2	2:E:147:ASN:HD21	1.47	0.75
1:G:820:VAL:CG1	2:H:136:MET:HE1	2.14	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:733:PRO:C	1:J:737:PHE:CD1	2.62	0.75
1:J:796:GLY:HA2	3:L:35:ARG:NE	2.00	0.75
1:P:732:ILE:N	1:P:733:PRO:HD2	2.01	0.75
1:A:636:LYS:O	1:A:637:LYS:HB2	1.86	0.75
1:A:733:PRO:C	1:A:737:PHE:CD1	2.62	0.75
1:D:818:TYR:CB	2:E:90:GLY:N	2.46	0.75
1:G:93:MET:SD	1:G:715:VAL:HA	2.26	0.75
1:G:708:ARG:HA	1:G:712:PRO:CG	2.16	0.75
1:G:783:LEU:O	1:G:787:ILE:CB	2.35	0.75
1:J:350:ALA:O	1:J:354:LEU:HB2	1.87	0.75
1:J:664:LEU:O	1:J:667:THR:HB	1.86	0.75
3:R:3:SER:O	3:R:4:LYS:HB2	1.85	0.75
4:X:287:ILE:CG1	4:Z:201:VAL:CG2	2.63	0.75
1:A:499:GLU:OE2	1:A:766:PHE:CE2	2.40	0.75
1:A:534:SER:O	4:8:351:THR:N	2.18	0.75
2:E:121:LEU:CG	2:E:128:PHE:CA	2.48	0.75
1:J:649:VAL:CG1	1:J:649:VAL:CB	2.64	0.75
1:P:646:PHE:CE2	1:P:652:LEU:HD21	2.14	0.75
1:A:350:ALA:O	1:A:354:LEU:HB2	1.87	0.75
3:L:3:SER:O	3:L:4:LYS:HB2	1.84	0.75
1:P:649:VAL:CG1	1:P:649:VAL:CB	2.64	0.75
4:0:246:GLN:HG2	4:Y:325:MET:HE1	1.68	0.75
4:1:287:ILE:CB	4:3:203:THR:HG22	2.14	0.75
1:A:505:MLY:N	1:A:762:HIS:NE2	2.34	0.75
1:A:795:ARG:CD	3:C:43:ASN:CG	2.60	0.75
1:D:538:GLU:O	4:9:349:LEU:HG	1.86	0.75
1:G:218:LEU:HB3	1:G:221:GLN:HG3	1.60	0.75
1:G:757:GLN:CB	1:G:776:GLU:HG2	2.14	0.75
1:G:831:TRP:CH2	2:H:47:LEU:HD23	2.20	0.75
1:P:725:ARG:HG3	1:P:733:PRO:HA	1.67	0.75
4:9:253:GLU:HA	4:9:256:ARG:HG3	1.69	0.75
1:A:295:MLY:HG3	1:A:332:MET:HE2	1.69	0.74
1:G:636:LYS:O	1:G:637:LYS:HB2	1.86	0.74
1:G:831:TRP:HH2	2:H:47:LEU:HD21	0.92	0.74
1:J:641:LYS:HD2	1:J:647:GLN:OE1	1.81	0.74
1:J:756:THR:CG2	1:J:776:GLU:O	2.26	0.74
1:J:791:GLN:HE21	3:L:115:GLY:HA3	1.51	0.74
1:P:350:ALA:O	1:P:354:LEU:HB2	1.87	0.74
4:1:253:GLU:HA	4:1:256:ARG:HG3	1.69	0.74
4:2:290:ARG:NH2	4:4:202:THR:HG22	1.97	0.74
4:2:322:PRO:CB	4:4:244:ASP:OD2	2.27	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:GLU:CD	1:A:766:PHE:CE2	2.65	0.74
1:A:530:MET:CG	4:8:354:GLN:CB	2.30	0.74
1:D:272:MLY:HH13	1:D:435:GLU:OE1	1.87	0.74
1:D:537:GLU:HG3	4:9:350:SER:O	1.78	0.74
1:G:350:ALA:O	1:G:354:LEU:HB2	1.87	0.74
1:J:310:TYR:CE2	1:J:320:ILE:HD11	2.22	0.74
1:J:732:ILE:N	1:J:733:PRO:HD2	2.01	0.74
4:1:202:THR:HB	4:Z:287:ILE:HG23	0.76	0.74
4:5:253:GLU:HA	4:5:256:ARG:HG3	1.69	0.74
4:7:290:ARG:HH22	4:9:202:THR:HG23	1.50	0.74
4:9:288:ASP:H	4:W:203:THR:HG22	1.52	0.74
4:X:287:ILE:HG23	4:Z:201:VAL:HG23	1.68	0.74
1:A:481:ASN:HD22	1:A:481:ASN:N	1.82	0.74
1:D:350:ALA:O	1:D:354:LEU:HB2	1.87	0.74
1:D:725:ARG:HG3	1:D:733:PRO:HA	1.67	0.74
1:D:733:PRO:C	1:D:737:PHE:CD1	2.62	0.74
1:D:813:ILE:CD1	2:E:128:PHE:CE1	2.66	0.74
1:G:541:MET:O	4:V:143:TYR:CZ	2.40	0.74
2:H:117:LEU:HB2	2:H:147:ASN:HD21	1.47	0.74
1:P:310:TYR:CE2	1:P:320:ILE:HD11	2.22	0.74
1:P:486:MLY:HH13	1:P:527:GLU:OE1	1.87	0.74
1:P:804:ARG:CZ	3:R:149:VAL:HB	2.18	0.74
4:7:288:ASP:H	4:9:203:THR:HG22	1.52	0.74
1:A:215:GLN:NE2	1:A:336:SER:O	2.20	0.74
1:A:732:ILE:N	1:A:733:PRO:CD	2.51	0.74
1:G:664:LEU:O	1:G:667:THR:HB	1.86	0.74
1:G:721:LYS:HG2	1:G:736:GLN:CD	1.86	0.74
1:P:636:LYS:O	1:P:637:LYS:HB2	1.86	0.74
1:P:664:LEU:O	1:P:667:THR:HB	1.86	0.74
4:3:253:GLU:HA	4:3:256:ARG:HG3	1.69	0.74
4:W:253:GLU:HA	4:W:256:ARG:HG3	1.70	0.74
1:A:149:GLN:HA	1:A:719:ASP:OD1	1.88	0.74
1:A:538:GLU:O	4:8:349:LEU:HG	1.86	0.74
1:G:538:GLU:HA	4:V:349:LEU:HD12	0.74	0.74
1:G:836:PHE:CZ	2:H:159:HIS:HA	2.23	0.74
1:J:534:SER:O	4:W:351:THR:N	2.19	0.74
1:J:795:ARG:HG2	3:L:118:MET:HE1	1.69	0.74
2:Q:121:LEU:CG	2:Q:128:PHE:HA	2.14	0.74
4:Z:253:GLU:HA	4:Z:256:ARG:HG3	1.69	0.74
1:A:541:MET:O	4:8:143:TYR:CZ	2.40	0.74
1:D:215:GLN:NE2	1:D:336:SER:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:541:MET:O	4:9:143:TYR:CZ	2.40	0.74
1:G:295:MLY:HG3	1:G:332:MET:HE2	1.69	0.74
1:G:310:TYR:CE2	1:G:320:ILE:HD11	2.22	0.74
1:J:636:LYS:O	1:J:637:LYS:HB2	1.86	0.74
1:J:732:ILE:N	1:J:733:PRO:CD	2.51	0.74
1:P:215:GLN:NE2	1:P:336:SER:O	2.20	0.74
1:P:436:MLY:HE3	1:P:626:TYR:CE1	2.23	0.74
1:P:538:GLU:HA	4:0:349:LEU:HD12	0.75	0.74
1:P:767:PHE:CD1	1:P:772:LEU:CD1	2.70	0.74
4:7:253:GLU:HA	4:7:256:ARG:HG3	1.69	0.74
4:X:253:GLU:HA	4:X:256:ARG:HG3	1.69	0.74
1:A:409:GLY:HA3	4:8:333:PRO:N	2.03	0.74
1:D:310:TYR:CE2	1:D:320:ILE:HD11	2.22	0.74
1:D:636:LYS:O	1:D:637:LYS:HB2	1.86	0.74
1:G:556:ASP:OD2	4:X:47:MET:HE3	1.85	0.74
1:G:797:PHE:HE2	3:I:126:LEU:HD13	1.51	0.74
1:P:795:ARG:HD3	3:R:43:ASN:CG	2.12	0.74
1:P:817:GLN:CB	2:Q:127:ARG:HD2	2.17	0.74
4:8:288:ASP:H	4:V:203:THR:HG22	1.52	0.74
4:8:290:ARG:HH22	4:V:202:THR:HG23	1.50	0.74
1:D:218:LEU:HD22	1:D:222:ILE:HG12	1.67	0.74
1:D:732:ILE:CD1	1:D:782:MLY:CH1	2.66	0.74
1:D:739:ASP:CB	1:D:742:LYS:HB3	2.12	0.74
1:D:795:ARG:HD2	3:F:35:ARG:HH12	1.53	0.74
2:E:130:PRO:O	2:E:132:GLU:N	2.21	0.74
1:G:502:GLU:OE2	1:G:761:GLY:HA3	1.88	0.74
1:G:791:GLN:HE22	3:I:115:GLY:HA3	0.97	0.74
1:J:538:GLU:HA	4:W:349:LEU:HD12	0.74	0.74
1:J:797:PHE:CE2	3:L:146:ILE:HD12	2.05	0.74
1:J:821:ARG:HH21	2:K:127:ARG:HG2	1.47	0.74
1:J:834:LEU:HD12	2:K:51:PHE:HE1	1.50	0.74
1:P:640:LYS:O	4:0:23:GLY:O	2.06	0.74
1:P:819:ASN:CG	2:Q:92:ASP:HB3	2.10	0.74
1:A:97:LEU:CD2	1:A:712:PRO:HB2	2.18	0.74
1:A:436:MLY:HE3	1:A:626:TYR:CE1	2.23	0.74
1:A:538:GLU:HA	4:8:349:LEU:HD12	0.74	0.74
1:D:819:ASN:OD1	2:E:91:ALA:HA	1.36	0.74
1:G:505:MLY:HH23	1:G:762:HIS:CE1	0.28	0.74
1:G:791:GLN:HE22	3:I:115:GLY:HA2	1.48	0.74
1:G:834:LEU:HD12	2:H:51:PHE:CE1	2.23	0.74
1:J:793:ARG:NH1	3:L:40:ASN:ND2	2.36	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:202:THR:OG1	4:Z:287:ILE:HG23	1.88	0.74
4:X:287:ILE:HG12	4:Z:201:VAL:CG2	2.18	0.74
1:A:310:TYR:CE2	1:A:320:ILE:HD11	2.22	0.74
1:A:486:MLY:HH13	1:A:527:GLU:OE1	1.88	0.74
1:A:530:MET:CE	4:8:355:MET:SD	2.76	0.74
1:A:735:GLY:CA	1:A:743:ALA:HA	2.18	0.74
1:D:538:GLU:HA	4:9:349:LEU:HD12	0.74	0.74
1:G:755:HIS:HB2	1:G:779:ARG:HH22	1.52	0.74
1:J:486:MLY:HH13	1:J:527:GLU:OE1	1.87	0.74
1:J:538:GLU:O	4:W:349:LEU:HG	1.86	0.74
1:J:829:TRP:CZ2	2:K:83:MET:HE3	2.23	0.74
2:K:130:PRO:O	2:K:132:GLU:N	2.21	0.74
1:P:538:GLU:OE2	4:0:355:MET:HE2	1.86	0.74
1:P:640:LYS:O	1:P:645:SER:OG	2.06	0.74
4:0:253:GLU:HA	4:0:256:ARG:HG3	1.69	0.74
4:X:287:ILE:HG13	4:Z:201:VAL:HG23	1.69	0.74
4:Y:253:GLU:HA	4:Y:256:ARG:HG3	1.69	0.74
2:B:130:PRO:O	2:B:132:GLU:N	2.21	0.73
1:D:409:GLY:HA3	4:9:333:PRO:N	2.03	0.73
1:D:640:LYS:O	4:9:23:GLY:O	2.06	0.73
1:J:94:MET:O	1:J:713:SER:CA	2.35	0.73
1:J:272:MLY:HH13	1:J:435:GLU:OE1	1.88	0.73
1:J:510:TRP:CH2	1:J:772:LEU:HD11	2.23	0.73
1:P:272:MLY:HH13	1:P:435:GLU:OE1	1.88	0.73
1:P:735:GLY:CA	1:P:743:ALA:HA	2.18	0.73
4:0:205:GLU:CG	4:Y:287:ILE:CD1	2.66	0.73
4:V:253:GLU:HA	4:V:256:ARG:HG3	1.69	0.73
4:X:287:ILE:HG12	4:Z:201:VAL:HG23	1.70	0.73
1:A:635:GLY:HA3	4:8:341:ILE:CD1	2.14	0.73
1:A:819:ASN:OD1	2:B:91:ALA:CA	2.30	0.73
1:G:215:GLN:NE2	1:G:336:SER:O	2.20	0.73
2:H:130:PRO:O	2:H:132:GLU:N	2.21	0.73
3:I:48:LYS:C	3:I:52:ASN:HD21	1.96	0.73
4:8:253:GLU:HA	4:8:256:ARG:HG3	1.69	0.73
1:A:542:PHE:CD2	4:8:143:TYR:CE1	2.76	0.73
1:D:436:MLY:HE3	1:D:626:TYR:CE1	2.23	0.73
1:D:487:LEU:O	1:D:490:PHE:HB3	1.88	0.73
1:J:436:MLY:HE3	1:J:626:TYR:CE1	2.23	0.73
1:D:530:MET:CG	4:9:354:GLN:CB	2.30	0.73
1:G:795:ARG:N	3:I:118:MET:HE3	2.02	0.73
1:G:817:GLN:CG	2:H:127:ARG:HB2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:792:ALA:HB1	3:L:42:THR:N	2.02	0.73
1:P:190:MLY:HE3	1:P:230:GLU:OE2	1.89	0.73
1:P:536:LEU:HD13	1:P:550:PHE:CZ	2.24	0.73
3:R:24:LYS:CA	3:R:63:ILE:O	2.37	0.73
1:A:237:THR:HG22	1:A:239:ARG:H	1.53	0.73
1:A:754:ASP:OD2	1:A:778:MET:HE3	1.89	0.73
1:D:295:MLY:HG3	1:D:332:MET:HE2	1.69	0.73
1:D:534:SER:CA	4:9:351:THR:HA	2.18	0.73
1:D:732:ILE:N	1:D:733:PRO:CD	2.51	0.73
1:D:798:LEU:CG	3:F:126:LEU:HD11	2.18	0.73
1:G:190:MLY:HE3	1:G:230:GLU:OE2	1.89	0.73
1:G:409:GLY:HA3	4:V:333:PRO:N	2.03	0.73
1:G:733:PRO:C	1:G:737:PHE:CD1	2.62	0.73
1:G:735:GLY:CA	1:G:743:ALA:HA	2.17	0.73
1:J:441:MET:O	1:J:445:ILE:HG13	1.88	0.73
1:J:534:SER:CA	4:W:351:THR:HA	2.19	0.73
1:P:441:MET:O	1:P:445:ILE:HG13	1.88	0.73
1:P:487:LEU:O	1:P:490:PHE:HB3	1.88	0.73
1:P:836:PHE:CE2	2:Q:160:GLY:CA	2.72	0.73
4:0:243:PRO:N	4:Y:291:LYS:HE3	2.03	0.73
4:1:202:THR:HA	4:Z:287:ILE:CG1	2.18	0.73
1:A:85:TYR:HH	1:A:772:LEU:HD23	0.91	0.73
2:B:144:VAL:CB	2:B:153:ILE:HD11	2.19	0.73
1:D:542:PHE:CD2	4:9:143:TYR:CE1	2.77	0.73
1:G:487:LEU:O	1:G:490:PHE:HB3	1.89	0.73
1:G:536:LEU:HD13	1:G:550:PHE:CZ	2.24	0.73
1:G:819:ASN:N	2:H:90:GLY:O	2.20	0.73
2:H:144:VAL:CB	2:H:153:ILE:HD11	2.19	0.73
3:I:24:LYS:CA	3:I:63:ILE:O	2.37	0.73
1:J:93:MET:HA	1:J:714:ARG:H	1.53	0.73
1:J:640:LYS:O	1:J:645:SER:OG	2.06	0.73
1:J:640:LYS:O	4:W:23:GLY:O	2.06	0.73
1:P:530:MET:CE	4:0:355:MET:SD	2.77	0.73
4:1:204:ALA:N	4:Z:287:ILE:HG21	2.03	0.73
4:2:253:GLU:HA	4:2:256:ARG:HG3	1.69	0.73
1:A:149:GLN:CG	1:A:718:ALA:HB3	2.17	0.73
1:D:530:MET:CE	4:9:355:MET:SD	2.77	0.73
1:D:797:PHE:CE1	3:F:146:ILE:CB	2.72	0.73
1:G:436:MLY:HE3	1:G:626:TYR:CE1	2.23	0.73
1:J:295:MLY:HG3	1:J:332:MET:HE2	1.69	0.73
1:J:530:MET:CE	4:W:355:MET:SD	2.77	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:802:GLU:O	1:J:806:MET:HG3	1.89	0.73
1:J:817:GLN:HB3	2:K:127:ARG:HH11	1.54	0.73
1:J:818:TYR:CG	2:K:127:ARG:NH1	2.57	0.73
4:1:43:VAL:O	4:Z:167:GLU:OE1	2.06	0.73
1:A:536:LEU:HD13	1:A:550:PHE:CZ	2.24	0.73
1:D:190:MLY:HE3	1:D:230:GLU:OE2	1.89	0.73
1:D:441:MET:O	1:D:445:ILE:HG13	1.88	0.73
3:F:24:LYS:CA	3:F:63:ILE:O	2.37	0.73
1:G:538:GLU:O	4:V:349:LEU:HG	1.87	0.73
1:J:190:MLY:HE3	1:J:230:GLU:OE2	1.89	0.73
1:J:237:THR:HG22	1:J:239:ARG:H	1.54	0.73
1:J:487:LEU:O	1:J:490:PHE:HB3	1.89	0.73
1:J:797:PHE:CE1	3:L:146:ILE:CB	2.71	0.73
1:P:534:SER:CA	4:0:351:THR:HA	2.19	0.73
1:P:838:ILE:CD1	2:Q:54:MET:HE1	1.90	0.73
2:Q:130:PRO:O	2:Q:132:GLU:N	2.21	0.73
1:A:640:LYS:O	4:8:23:GLY:O	2.06	0.73
1:A:641:LYS:HD2	1:A:647:GLN:OE1	1.81	0.73
1:A:813:ILE:HG12	2:B:128:PHE:HE1	1.54	0.73
1:D:410:ASN:OD1	4:9:335:ARG:N	2.22	0.73
3:F:48:LYS:C	3:F:52:ASN:HD21	1.97	0.73
1:G:272:MLY:HH13	1:G:435:GLU:OE1	1.88	0.73
1:G:410:ASN:OD1	4:V:335:ARG:N	2.21	0.73
1:G:486:MLY:HH13	1:G:527:GLU:OE1	1.88	0.73
1:G:640:LYS:O	4:V:23:GLY:O	2.06	0.73
3:R:48:LYS:C	3:R:52:ASN:HD21	1.97	0.73
4:3:288:ASP:CB	4:5:203:THR:CG2	2.66	0.73
4:9:290:ARG:HH22	4:W:202:THR:HG23	1.50	0.73
1:A:410:ASN:OD1	4:8:335:ARG:N	2.22	0.73
1:D:538:GLU:OE2	4:9:355:MET:HE2	1.86	0.73
1:D:618:THR:O	1:D:622:LEU:HD13	1.89	0.73
1:D:735:GLY:CA	1:D:743:ALA:HA	2.18	0.73
1:G:732:ILE:N	1:G:733:PRO:CD	2.51	0.73
1:J:295:MLY:HG3	1:J:332:MET:CE	2.19	0.73
1:P:409:GLY:HA3	4:0:333:PRO:N	2.03	0.73
1:P:410:ASN:OD1	4:0:335:ARG:N	2.21	0.73
4:2:288:ASP:H	4:4:203:THR:CG2	1.98	0.73
1:A:272:MLY:HH13	1:A:435:GLU:OE1	1.88	0.72
1:A:534:SER:CA	4:8:351:THR:HA	2.18	0.72
1:A:831:TRP:HH2	2:B:50:THR:HB	0.88	0.72
2:E:144:VAL:CB	2:E:153:ILE:HD11	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:791:GLN:OE1	3:I:116:GLU:HG3	1.89	0.72
1:J:21:GLU:O	1:J:25:ILE:HG13	1.89	0.72
1:J:215:GLN:NE2	1:J:336:SER:O	2.21	0.72
1:J:410:ASN:OD1	4:W:335:ARG:N	2.21	0.72
1:J:735:GLY:C	1:J:743:ALA:HB2	1.82	0.72
1:P:542:PHE:CD2	4:O:143:TYR:CE1	2.77	0.72
3:C:24:LYS:CA	3:C:63:ILE:O	2.37	0.72
1:D:214:MET:HA	1:D:340:ILE:HD11	1.71	0.72
1:G:97:LEU:HD23	1:G:712:PRO:HB3	0.78	0.72
1:G:552:ASN:C	4:X:47:MET:HE1	2.14	0.72
1:G:802:GLU:O	1:G:806:MET:HG3	1.89	0.72
1:J:97:LEU:HD22	1:J:712:PRO:HB2	1.70	0.72
1:J:542:PHE:CD2	4:W:143:TYR:CE1	2.77	0.72
1:J:618:THR:O	1:J:622:LEU:HD13	1.89	0.72
1:P:295:MLY:HG3	1:P:332:MET:HE2	1.69	0.72
4:O:110:LEU:O	4:1:195:GLU:CA	2.34	0.72
4:3:287:ILE:HB	4:5:203:THR:HG22	1.69	0.72
4:X:286:ASP:OD1	4:Z:202:THR:C	2.31	0.72
1:D:486:MLY:HH13	1:D:527:GLU:OE1	1.88	0.72
1:D:536:LEU:HD13	1:D:550:PHE:CZ	2.24	0.72
1:D:732:ILE:HD13	1:D:782:MLY:HH21	1.70	0.72
1:G:214:MET:HA	1:G:340:ILE:HD11	1.70	0.72
1:G:635:GLY:HA3	4:V:341:ILE:CD1	2.14	0.72
3:I:48:LYS:C	3:I:52:ASN:HD22	1.97	0.72
1:J:538:GLU:OE2	4:W:355:MET:HE2	1.86	0.72
1:J:769:ALA:CB	1:J:770:GLY:HA2	2.18	0.72
1:P:21:GLU:O	1:P:25:ILE:HG13	1.89	0.72
1:P:732:ILE:N	1:P:733:PRO:CD	2.51	0.72
2:Q:121:LEU:CG	2:Q:128:PHE:CA	2.49	0.72
1:A:93:MET:HE1	1:A:715:VAL:HG13	1.71	0.72
1:A:441:MET:O	1:A:445:ILE:HG13	1.88	0.72
1:A:538:GLU:OE2	4:8:355:MET:HE2	1.87	0.72
1:D:36:SER:O	1:D:52:ILE:HG12	1.90	0.72
1:D:237:THR:HG22	1:D:239:ARG:H	1.54	0.72
1:D:641:LYS:HD2	1:D:647:GLN:OE1	1.81	0.72
1:D:831:TRP:CE3	2:E:34:ILE:HD13	2.24	0.72
1:G:21:GLU:O	1:G:25:ILE:HG13	1.89	0.72
1:J:735:GLY:CA	1:J:743:ALA:HA	2.18	0.72
1:P:792:ALA:HB2	3:R:81:GLN:HE22	1.54	0.72
4:2:3:ASP:HA	4:2:6:THR:CB	2.18	0.72
4:4:253:GLU:HA	4:4:256:ARG:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:MLY:HH22	1:A:527:GLU:OE2	1.90	0.72
1:A:519:LEU:HD12	1:A:519:LEU:N	2.04	0.72
1:D:295:MLY:HG3	1:D:332:MET:CE	2.20	0.72
1:D:640:LYS:O	1:D:645:SER:OG	2.06	0.72
1:G:618:THR:O	1:G:622:LEU:HD13	1.89	0.72
1:G:640:LYS:O	1:G:645:SER:OG	2.06	0.72
2:H:117:LEU:HD12	2:H:147:ASN:CA	2.20	0.72
1:J:36:SER:O	1:J:52:ILE:HG12	1.90	0.72
1:J:214:MET:HA	1:J:340:ILE:HD11	1.70	0.72
1:J:536:LEU:HD13	1:J:550:PHE:CZ	2.24	0.72
1:J:756:THR:CG2	1:J:776:GLU:HB3	2.15	0.72
2:K:144:VAL:CB	2:K:153:ILE:HD11	2.19	0.72
1:P:36:SER:O	1:P:52:ILE:HG12	1.89	0.72
1:P:754:ASP:HB3	1:P:757:GLN:HG2	1.72	0.72
4:0:202:THR:OG1	4:Y:286:ASP:C	2.29	0.72
1:A:802:GLU:O	1:A:806:MET:HG3	1.89	0.72
1:D:21:GLU:O	1:D:25:ILE:HG13	1.89	0.72
1:D:762:HIS:H	1:D:762:HIS:CD2	2.08	0.72
1:G:769:ALA:HB1	1:G:770:GLY:CA	2.06	0.72
1:J:409:GLY:HA3	4:W:333:PRO:N	2.03	0.72
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:P:725:ARG:HH21	3:R:93:VAL:CB	2.02	0.72
1:P:817:GLN:HB3	2:Q:127:ARG:HH11	1.53	0.72
4:1:3:ASP:HA	4:1:6:THR:CB	2.18	0.72
4:2:322:PRO:HB2	4:4:244:ASP:HB3	1.70	0.72
4:8:3:ASP:HA	4:8:6:THR:CB	2.18	0.72
1:A:754:ASP:HB3	1:A:757:GLN:HG2	1.72	0.72
1:A:762:HIS:CD2	1:A:762:HIS:H	2.08	0.72
1:D:486:MLY:HH22	1:D:527:GLU:OE2	1.90	0.72
1:G:176:LEU:HD12	1:G:176:LEU:N	2.05	0.72
1:G:530:MET:CE	4:V:355:MET:SD	2.78	0.72
1:J:831:TRP:HZ3	2:K:34:ILE:HD13	1.55	0.72
1:P:84:MLY:HH22	1:P:723:ARG:HB3	1.70	0.72
1:P:817:GLN:HB3	2:Q:127:ARG:HD3	1.72	0.72
2:Q:136:MET:O	2:Q:140:PHE:HB2	1.90	0.72
4:0:288:ASP:OD2	4:2:63:GLY:HA2	1.88	0.72
4:3:3:ASP:HA	4:3:6:THR:CB	2.18	0.72
4:V:286:ASP:OD1	4:X:203:THR:N	2.23	0.72
1:A:36:SER:O	1:A:52:ILE:HG12	1.89	0.72
1:A:149:GLN:CG	1:A:719:ASP:N	2.46	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:709:LYS:C	1:D:710:GLY:HA2	2.15	0.72
1:G:486:MLY:HH22	1:G:527:GLU:OE2	1.90	0.72
1:J:176:LEU:HD12	1:J:176:LEU:N	2.05	0.72
1:P:176:LEU:HD12	1:P:176:LEU:N	2.05	0.72
1:P:618:THR:O	1:P:622:LEU:HD13	1.89	0.72
4:1:203:THR:CB	4:Z:287:ILE:HB	2.19	0.72
4:2:287:ILE:CD1	4:4:203:THR:HB	2.19	0.72
1:D:802:GLU:O	1:D:806:MET:HG3	1.89	0.72
1:G:441:MET:O	1:G:445:ILE:HG13	1.88	0.72
1:G:506:GLU:OE2	1:G:760:PHE:O	2.07	0.72
1:G:739:ASP:CB	1:G:742:LYS:HB3	2.12	0.72
1:G:755:HIS:N	1:G:779:ARG:NH1	2.38	0.72
1:J:486:MLY:HH22	1:J:527:GLU:OE2	1.90	0.72
4:7:290:ARG:NH1	4:9:202:THR:CG2	2.49	0.72
4:9:3:ASP:HA	4:9:6:THR:CB	2.18	0.72
4:X:324:THR:HB	4:Z:247:VAL:H	1.55	0.72
1:A:14:ALA:HB3	1:A:15:PRO:HD3	1.72	0.72
1:A:21:GLU:O	1:A:25:ILE:HG13	1.89	0.72
1:A:190:MLY:HE3	1:A:230:GLU:OE2	1.89	0.72
1:A:487:LEU:O	1:A:490:PHE:HB3	1.89	0.72
1:A:502:GLU:CD	1:A:761:GLY:N	2.44	0.72
2:B:117:LEU:HD12	2:B:147:ASN:CA	2.20	0.72
2:B:136:MET:O	2:B:140:PHE:HB2	1.90	0.72
1:D:176:LEU:HD12	1:D:176:LEU:N	2.05	0.72
1:G:14:ALA:HB3	1:G:15:PRO:HD3	1.72	0.72
1:P:295:MLY:HG3	1:P:332:MET:CE	2.19	0.72
1:P:486:MLY:HH22	1:P:527:GLU:OE2	1.90	0.72
1:P:546:THR:HG21	4:2:48:GLY:HA2	1.71	0.72
4:1:287:ILE:HG21	4:3:202:THR:OG1	1.89	0.72
4:1:288:ASP:H	4:3:203:THR:HG22	1.54	0.72
1:A:217:THR:O	1:A:220:ASP:HB2	1.90	0.71
1:G:237:THR:HG22	1:G:239:ARG:H	1.54	0.71
1:G:519:LEU:HD12	1:G:519:LEU:N	2.04	0.71
1:G:542:PHE:CD2	4:V:143:TYR:CE1	2.78	0.71
1:J:757:GLN:N	1:J:776:GLU:HB3	2.05	0.71
1:J:834:LEU:HD12	2:K:51:PHE:CE1	2.24	0.71
1:P:214:MET:HA	1:P:340:ILE:HD11	1.70	0.71
1:A:795:ARG:NH2	3:C:116:GLU:HB3	2.03	0.71
1:D:519:LEU:HD12	1:D:519:LEU:N	2.04	0.71
1:G:36:SER:O	1:G:52:ILE:HG12	1.90	0.71
1:J:83:PRO:O	1:J:723:ARG:NH2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:136:MET:O	2:K:140:PHE:HB2	1.90	0.71
1:P:836:PHE:CE2	2:Q:160:GLY:HA3	2.25	0.71
4:1:324:THR:OG1	4:3:244:ASP:N	2.17	0.71
4:X:324:THR:HB	4:Z:246:GLN:CA	2.20	0.71
1:D:217:THR:O	1:D:220:ASP:HB2	1.90	0.71
1:D:530:MET:HE3	4:9:355:MET:SD	2.30	0.71
1:G:537:GLU:C	4:V:351:THR:H	1.99	0.71
1:G:817:GLN:OE1	2:H:127:ARG:CD	2.29	0.71
1:J:72:VAL:HG13	1:J:76:GLN:CB	2.19	0.71
1:P:237:THR:HG22	1:P:239:ARG:H	1.54	0.71
1:P:505:MLY:CG	1:P:762:HIS:HE2	2.03	0.71
4:1:203:THR:CG2	4:Z:288:ASP:N	2.52	0.71
1:A:295:MLY:HG3	1:A:332:MET:CE	2.19	0.71
1:A:530:MET:HE3	4:8:355:MET:SD	2.30	0.71
1:A:800:ARG:HH22	3:C:40:ASN:HD21	0.73	0.71
1:G:84:MLY:CB	1:G:723:ARG:CZ	2.64	0.71
1:G:557:GLU:HA	4:X:48:GLY:CA	2.18	0.71
1:J:519:LEU:HD12	1:J:519:LEU:N	2.04	0.71
1:J:830:PRO:HB3	2:K:67:MET:HE2	1.71	0.71
1:P:86:ASP:OD2	1:P:87:MLY:HH13	1.91	0.71
1:P:245:ARG:HD3	1:P:271:GLU:OE1	1.90	0.71
4:Z:3:ASP:HA	4:Z:6:THR:CB	2.18	0.71
1:A:618:THR:O	1:A:622:LEU:HD13	1.89	0.71
1:D:245:ARG:HD3	1:D:271:GLU:OE1	1.90	0.71
1:D:754:ASP:HB3	1:D:757:GLN:HG2	1.72	0.71
1:D:814:PHE:CA	2:E:127:ARG:HH11	1.93	0.71
1:P:217:THR:O	1:P:220:ASP:HB2	1.91	0.71
1:P:819:ASN:HD21	2:Q:92:ASP:CB	1.85	0.71
4:5:3:ASP:HA	4:5:6:THR:CB	2.18	0.71
4:V:287:ILE:HD11	4:X:201:VAL:O	1.75	0.71
1:A:214:MET:HA	1:A:340:ILE:HD11	1.71	0.71
1:D:56:GLU:CB	1:D:59:MLY:HB3	2.19	0.71
1:D:727:LEU:H	1:D:782:MLY:HH22	1.56	0.71
1:G:534:SER:CA	4:V:351:THR:HA	2.20	0.71
1:G:557:GLU:HB2	4:X:47:MET:C	2.16	0.71
1:P:519:LEU:N	1:P:519:LEU:HD12	2.04	0.71
4:2:287:ILE:CG2	4:4:204:ALA:H	2.04	0.71
4:X:3:ASP:HA	4:X:6:THR:CB	2.18	0.71
1:A:640:LYS:O	1:A:645:SER:OG	2.06	0.71
1:D:86:ASP:OD2	1:D:87:MLY:HH13	1.91	0.71
1:D:712:PRO:HB2	1:D:771:LEU:HD22	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:48:LYS:C	3:F:52:ASN:HD22	1.96	0.71
1:G:505:MLY:HH22	1:G:762:HIS:HE1	0.54	0.71
1:J:93:MET:SD	1:J:716:LEU:N	2.63	0.71
1:P:14:ALA:HB3	1:P:15:PRO:HD3	1.72	0.71
1:P:707:CYS:SG	1:P:714:ARG:NH2	2.63	0.71
4:2:287:ILE:HB	4:4:204:ALA:H	1.55	0.71
1:A:56:GLU:CB	1:A:59:MLY:HB3	2.20	0.71
1:A:206:LYS:HD3	1:A:217:THR:HG23	0.71	0.71
3:C:4:LYS:N	3:C:5:ALA:O	2.16	0.71
1:D:537:GLU:C	4:9:351:THR:H	1.98	0.71
1:G:274:ARG:NH2	1:G:282:GLU:OE1	2.24	0.71
1:J:762:HIS:H	1:J:762:HIS:CD2	2.07	0.71
1:J:795:ARG:CZ	3:L:116:GLU:OE1	2.39	0.71
4:X:286:ASP:OD1	4:Z:203:THR:N	2.24	0.71
1:A:798:LEU:CD1	3:C:126:LEU:CD2	2.52	0.71
1:D:14:ALA:HB3	1:D:15:PRO:HD3	1.72	0.71
1:G:86:ASP:OD2	1:G:87:MLY:HH13	1.91	0.71
1:G:166:MET:HE1	1:G:254:PHE:HB2	1.73	0.71
1:G:295:MLY:HG3	1:G:332:MET:CE	2.20	0.71
1:G:819:ASN:CG	2:H:90:GLY:O	2.33	0.71
1:J:56:GLU:CB	1:J:59:MLY:HB3	2.19	0.71
1:J:274:ARG:NH2	1:J:282:GLU:OE1	2.24	0.71
1:J:710:GLY:C	1:J:772:LEU:CD2	2.63	0.71
3:L:48:LYS:C	3:L:52:ASN:HD21	1.96	0.71
4:1:287:ILE:HG23	4:3:202:THR:HB	0.88	0.71
4:7:3:ASP:HA	4:7:6:THR:CB	2.18	0.71
1:A:537:GLU:C	4:8:351:THR:H	1.99	0.71
1:D:809:ARG:NH2	2:E:120:LEU:HD11	2.06	0.71
1:P:786:ILE:O	1:P:787:ILE:C	2.33	0.71
1:A:166:MET:HE1	1:A:254:PHE:HB2	1.73	0.70
1:A:245:ARG:HD3	1:A:271:GLU:OE1	1.90	0.70
1:A:502:GLU:HG2	1:A:764:MLY:O	1.90	0.70
1:A:541:MET:HG2	4:8:345:ILE:C	2.16	0.70
1:D:579:PHE:HD2	1:D:592:ILE:HD11	1.56	0.70
1:D:791:GLN:CD	3:F:116:GLU:HG3	2.16	0.70
1:J:541:MET:HG2	4:W:345:ILE:C	2.16	0.70
1:J:818:TYR:CD1	2:K:127:ARG:CZ	2.73	0.70
3:L:4:LYS:N	3:L:5:ALA:O	2.16	0.70
1:P:530:MET:HE3	4:0:355:MET:SD	2.30	0.70
1:P:630:ALA:O	4:0:25:ASP:HB2	1.91	0.70
1:P:831:TRP:HZ2	2:Q:47:LEU:CD2	1.98	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:244:ASP:HB2	4:Y:291:LYS:C	2.13	0.70
1:G:245:ARG:HD3	1:G:271:GLU:OE1	1.90	0.70
1:G:795:ARG:NH2	3:I:116:GLU:CB	2.54	0.70
1:G:813:ILE:HG23	2:H:128:PHE:HZ	1.50	0.70
1:G:834:LEU:HD13	2:H:51:PHE:CE1	2.25	0.70
1:J:245:ARG:HD3	1:J:271:GLU:OE1	1.90	0.70
1:J:505:MLY:HG3	1:J:762:HIS:HE1	1.52	0.70
1:P:206:LYS:HD3	1:P:217:THR:HG23	0.71	0.70
1:P:537:GLU:C	4:O:351:THR:H	1.98	0.70
1:P:541:MET:HG2	4:O:345:ILE:C	2.16	0.70
2:Q:144:VAL:CB	2:Q:153:ILE:HD11	2.19	0.70
4:O:204:ALA:CB	4:Y:288:ASP:CB	2.67	0.70
4:V:3:ASP:HA	4:V:6:THR:CB	2.18	0.70
4:W:324:THR:HG23	4:Y:247:VAL:HG22	1.70	0.70
1:A:72:VAL:HG13	1:A:76:GLN:CB	2.19	0.70
1:A:93:MET:CE	1:A:715:VAL:CG1	2.66	0.70
1:A:176:LEU:N	1:A:176:LEU:HD12	2.05	0.70
1:D:166:MET:HE1	1:D:254:PHE:HB2	1.73	0.70
1:D:577:ALA:O	1:D:578:HIS:CG	2.45	0.70
1:D:795:ARG:NH2	3:F:116:GLU:OE1	2.23	0.70
1:J:14:ALA:HB3	1:J:15:PRO:HD3	1.73	0.70
1:J:213:LYS:HA	1:J:220:ASP:OD1	1.92	0.70
1:J:217:THR:O	1:J:220:ASP:HB2	1.91	0.70
1:P:274:ARG:NH2	1:P:282:GLU:OE1	2.24	0.70
2:Q:117:LEU:HD12	2:Q:147:ASN:CA	2.19	0.70
1:A:86:ASP:OD2	1:A:87:MLY:HH13	1.91	0.70
1:A:274:ARG:NH2	1:A:282:GLU:OE1	2.24	0.70
3:C:48:LYS:HB3	3:C:52:ASN:HD21	1.57	0.70
1:D:72:VAL:HG13	1:D:76:GLN:CB	2.19	0.70
1:D:732:ILE:HG21	1:D:747:LEU:HD11	0.72	0.70
1:D:769:ALA:O	1:D:774:LEU:CG	2.39	0.70
1:G:28:GLN:OE1	1:G:723:ARG:NH1	2.25	0.70
1:G:754:ASP:CB	1:G:776:GLU:OE1	2.39	0.70
1:G:829:TRP:CH2	2:H:87:LYS:HE2	2.27	0.70
3:I:25:ILE:O	3:I:63:ILE:HB	1.92	0.70
1:J:166:MET:HE1	1:J:254:PHE:HB2	1.73	0.70
1:J:206:LYS:HD3	1:J:217:THR:HG23	0.70	0.70
1:J:530:MET:HE3	4:W:355:MET:SD	2.30	0.70
1:J:630:ALA:O	4:W:25:ASP:HB2	1.91	0.70
1:J:754:ASP:HB3	1:J:757:GLN:HG2	1.71	0.70
1:J:756:THR:HG22	1:J:776:GLU:OE1	1.87	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:577:ALA:O	1:P:578:HIS:CG	2.44	0.70
1:P:762:HIS:CD2	1:P:762:HIS:H	2.07	0.70
1:P:796:GLY:CA	3:R:40:ASN:HB3	2.21	0.70
1:D:747:LEU:HD21	1:D:782:MLY:HH11	1.74	0.70
1:D:810:ARG:HG2	1:D:810:ARG:HH11	1.57	0.70
1:G:732:ILE:HG23	1:G:747:LEU:CB	1.84	0.70
1:J:86:ASP:OD2	1:J:87:MLY:HH13	1.91	0.70
1:J:831:TRP:NE1	2:K:67:MET:HB3	2.03	0.70
1:P:213:LYS:HA	1:P:220:ASP:OD1	1.92	0.70
4:3:1:ASP:HA	4:3:4:GLU:HB3	1.74	0.70
1:A:123:CYS:HB2	1:A:158:ILE:HD11	1.73	0.70
1:A:149:GLN:HG2	1:A:719:ASP:CG	2.14	0.70
1:A:501:GLU:HG2	1:A:762:HIS:CE1	2.24	0.70
1:D:727:LEU:H	1:D:782:MLY:CE	2.04	0.70
1:D:800:ARG:C	3:F:149:VAL:HG21	2.15	0.70
1:G:541:MET:HG2	4:V:345:ILE:C	2.17	0.70
1:G:798:LEU:HG	3:I:122:GLU:HB3	1.73	0.70
1:A:800:ARG:HH22	3:C:40:ASN:CG	1.85	0.70
1:D:213:LYS:HA	1:D:220:ASP:OD1	1.92	0.70
1:D:274:ARG:NH2	1:D:282:GLU:OE1	2.24	0.70
1:D:641:LYS:HD2	4:9:348:SER:HA	1.72	0.70
1:G:123:CYS:HB2	1:G:158:ILE:HD11	1.73	0.70
1:G:217:THR:O	1:G:220:ASP:HB2	1.91	0.70
3:I:48:LYS:O	3:I:52:ASN:CG	2.34	0.70
1:J:537:GLU:C	4:W:351:THR:H	1.98	0.70
1:J:577:ALA:O	1:J:578:HIS:CG	2.45	0.70
1:J:791:GLN:NE2	3:L:115:GLY:HA3	2.06	0.70
1:P:123:CYS:HB2	1:P:158:ILE:HD11	1.73	0.70
4:0:3:ASP:HA	4:0:6:THR:CB	2.18	0.70
4:0:287:ILE:HG21	4:2:203:THR:HG22	0.72	0.70
4:W:324:THR:HG23	4:Y:247:VAL:H	1.45	0.70
1:A:813:ILE:CG1	2:B:128:PHE:HE1	2.04	0.70
3:C:48:LYS:O	3:C:52:ASN:CG	2.34	0.70
1:D:550:PHE:HA	4:W:46:GLY:HA3	1.66	0.70
1:D:831:TRP:CD1	2:E:51:PHE:CZ	2.76	0.70
2:E:136:MET:O	2:E:140:PHE:HB2	1.90	0.70
1:G:56:GLU:CB	1:G:59:MLY:HB3	2.19	0.70
1:G:817:GLN:HG3	2:H:128:PHE:CE1	2.26	0.70
1:G:834:LEU:HD21	2:H:34:ILE:HG12	1.74	0.70
2:H:136:MET:O	2:H:140:PHE:HB2	1.90	0.70
1:J:123:CYS:HB2	1:J:158:ILE:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:797:PHE:HE1	3:L:146:ILE:CA	2.04	0.70
1:J:810:ARG:HG2	1:J:810:ARG:HH11	1.57	0.70
1:J:818:TYR:CE1	2:K:127:ARG:NH1	2.58	0.70
4:X:1:ASP:HA	4:X:4:GLU:HB3	1.74	0.70
4:Y:3:ASP:HA	4:Y:6:THR:CB	2.18	0.70
1:A:546:THR:HG22	1:A:548:THR:N	2.05	0.70
1:A:787:ILE:HG22	1:A:788:THR:N	2.07	0.70
1:D:206:LYS:HD3	1:D:217:THR:HG23	0.71	0.70
1:G:579:PHE:HD2	1:G:592:ILE:HD11	1.57	0.70
1:G:795:ARG:CZ	3:I:116:GLU:CB	2.67	0.70
1:J:84:MLY:HH21	1:J:720:PHE:C	2.17	0.70
1:J:641:LYS:HD2	4:W:348:SER:HA	1.72	0.70
1:P:218:LEU:HB2	1:P:221:GLN:CG	2.09	0.70
1:P:813:ILE:CG2	2:Q:128:PHE:HE1	2.02	0.70
1:A:579:PHE:HD2	1:A:592:ILE:HD11	1.57	0.70
1:D:123:CYS:HB2	1:D:158:ILE:HD11	1.73	0.70
1:G:97:LEU:HD22	1:G:712:PRO:HB2	1.72	0.70
1:G:829:TRP:CE3	2:H:87:LYS:NZ	2.59	0.70
1:J:215:GLN:CA	1:J:340:ILE:CG2	2.62	0.70
2:K:111:SER:OG	2:K:148:VAL:HG12	1.92	0.70
1:P:84:MLY:HB3	1:P:723:ARG:HE	1.56	0.70
4:0:287:ILE:HG21	4:2:203:THR:CB	2.22	0.70
4:1:287:ILE:CG2	4:3:203:THR:N	2.55	0.70
4:W:325:MET:SD	4:Y:244:ASP:CG	2.75	0.70
1:A:499:GLU:OE2	1:A:766:PHE:HE2	1.74	0.69
1:A:797:PHE:CD1	3:C:146:ILE:CG2	2.74	0.69
2:B:117:LEU:CB	2:B:147:ASN:ND2	2.35	0.69
1:D:630:ALA:O	4:9:25:ASP:HB2	1.92	0.69
1:D:724:TYR:CA	1:D:782:MLY:CD	2.70	0.69
1:G:546:THR:HG22	1:G:548:THR:N	2.05	0.69
1:G:810:ARG:HG2	1:G:810:ARG:HH11	1.56	0.69
3:L:48:LYS:O	3:L:52:ASN:CG	2.34	0.69
1:P:72:VAL:HG13	1:P:76:GLN:CB	2.19	0.69
1:P:166:MET:HE1	1:P:254:PHE:HB2	1.73	0.69
1:P:786:ILE:C	1:P:787:ILE:HG22	2.06	0.69
2:B:117:LEU:CB	2:B:147:ASN:OD1	2.39	0.69
1:D:541:MET:HG2	4:9:345:ILE:C	2.16	0.69
3:F:25:ILE:O	3:F:63:ILE:HB	1.92	0.69
1:G:530:MET:HE3	4:V:355:MET:SD	2.31	0.69
1:J:636:LYS:HG3	4:W:334:GLU:CD	2.17	0.69
1:P:541:MET:CG	4:0:345:ILE:O	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:201:VAL:H	4:Y:287:ILE:HG12	0.89	0.69
1:A:166:MET:HE1	1:A:254:PHE:HD2	1.56	0.69
1:A:577:ALA:O	1:A:578:HIS:CG	2.45	0.69
1:A:782:MLY:C	1:A:783:LEU:HD12	2.22	0.69
1:A:795:ARG:CD	3:C:35:ARG:NH1	2.34	0.69
3:C:48:LYS:C	3:C:52:ASN:HD21	1.97	0.69
1:D:831:TRP:NE1	2:E:51:PHE:CZ	2.60	0.69
1:G:166:MET:HE1	1:G:254:PHE:HD2	1.56	0.69
1:G:537:GLU:HG3	4:V:350:SER:O	1.79	0.69
1:G:795:ARG:N	3:I:118:MET:CE	2.55	0.69
1:J:630:ALA:O	4:W:25:ASP:CB	2.41	0.69
1:J:787:ILE:HG22	1:J:788:THR:N	2.07	0.69
4:7:1:ASP:HA	4:7:4:GLU:HB3	1.74	0.69
1:J:797:PHE:CZ	3:L:126:LEU:HD22	2.27	0.69
1:J:819:ASN:HD21	2:K:92:ASP:HB2	1.54	0.69
1:J:820:VAL:HG13	2:K:136:MET:HE1	1.69	0.69
1:P:797:PHE:HD1	3:R:146:ILE:HG22	1.54	0.69
1:P:797:PHE:HD1	3:R:146:ILE:HG23	1.05	0.69
1:P:830:PRO:CG	2:Q:67:MET:HE2	2.21	0.69
2:Q:111:SER:OG	2:Q:148:VAL:HG12	1.92	0.69
1:A:97:LEU:HD22	1:A:712:PRO:HB2	1.75	0.69
1:D:218:LEU:HB2	1:D:221:GLN:CG	2.09	0.69
1:D:636:LYS:HG3	4:9:334:GLU:CD	2.17	0.69
1:G:72:VAL:HG13	1:G:76:GLN:CB	2.19	0.69
1:G:206:LYS:HD3	1:G:217:THR:HG23	0.70	0.69
1:G:643:GLY:N	4:V:24:ASP:CA	2.47	0.69
1:J:782:MLY:C	1:J:783:LEU:HD12	2.22	0.69
1:P:630:ALA:O	4:O:25:ASP:CB	2.41	0.69
1:P:641:LYS:HD2	4:O:348:SER:HA	1.73	0.69
3:R:48:LYS:HB3	3:R:52:ASN:HD21	1.57	0.69
4:9:1:ASP:HA	4:9:4:GLU:HB3	1.74	0.69
4:V:1:ASP:HA	4:V:4:GLU:HB3	1.74	0.69
4:Y:1:ASP:HA	4:Y:4:GLU:HB3	1.74	0.69
1:A:123:CYS:HB2	1:A:158:ILE:CD1	2.23	0.69
1:A:553:MLY:HG2	4:V:47:MET:N	2.07	0.69
1:A:636:LYS:HG3	4:8:334:GLU:CD	2.17	0.69
1:A:802:GLU:OE1	1:A:802:GLU:HA	1.92	0.69
1:G:553:MLY:HH12	4:X:45:VAL:CG2	2.21	0.69
1:J:84:MLY:HH22	1:J:719:ASP:O	1.92	0.69
1:J:792:ALA:CA	3:L:42:THR:HA	2.10	0.69
1:P:802:GLU:OE1	1:P:802:GLU:HA	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:1:ASP:HA	4:0:4:GLU:HB3	1.74	0.69
4:0:243:PRO:CB	4:Y:291:LYS:HE3	2.23	0.69
4:1:1:ASP:HA	4:1:4:GLU:HB3	1.74	0.69
1:A:641:LYS:HD2	4:8:348:SER:HA	1.73	0.69
1:D:553:MLY:HG2	4:W:47:MET:N	2.07	0.69
1:G:577:ALA:O	1:G:578:HIS:CG	2.45	0.69
1:G:762:HIS:CD2	1:G:762:HIS:H	2.07	0.69
3:I:3:SER:O	3:I:4:LYS:CB	2.41	0.69
1:J:218:LEU:HB2	1:J:221:GLN:CG	2.09	0.69
1:J:579:PHE:HD2	1:J:592:ILE:HD11	1.56	0.69
3:L:25:ILE:O	3:L:63:ILE:HB	1.92	0.69
1:P:810:ARG:HH11	1:P:810:ARG:HG2	1.57	0.69
4:W:1:ASP:HA	4:W:4:GLU:HB3	1.74	0.69
4:W:3:ASP:HA	4:W:6:THR:CB	2.18	0.69
1:A:550:PHE:HA	4:V:46:GLY:HA3	1.66	0.69
1:A:630:ALA:O	4:8:25:ASP:HB2	1.92	0.69
1:A:813:ILE:HG22	2:B:127:ARG:HD3	1.72	0.69
1:D:541:MET:CG	4:9:345:ILE:O	2.41	0.69
1:D:782:MLY:C	1:D:783:LEU:HD12	2.22	0.69
1:D:807:VAL:O	1:D:810:ARG:HB2	1.93	0.69
2:E:111:SER:OG	2:E:148:VAL:HG12	1.92	0.69
3:F:3:SER:O	3:F:4:LYS:CB	2.41	0.69
1:G:84:MLY:HH22	1:G:723:ARG:HB2	1.75	0.69
1:G:123:CYS:HB2	1:G:158:ILE:CD1	2.23	0.69
1:G:636:LYS:HG3	4:V:334:GLU:CD	2.18	0.69
1:G:754:ASP:HB3	1:G:757:GLN:HG2	1.72	0.69
1:G:787:ILE:HG22	1:G:788:THR:N	2.07	0.69
2:H:111:SER:OG	2:H:148:VAL:HG12	1.92	0.69
3:I:48:LYS:HB3	3:I:52:ASN:HD21	1.56	0.69
1:P:56:GLU:CB	1:P:59:MLY:HB3	2.19	0.69
1:P:123:CYS:HB2	1:P:158:ILE:CD1	2.23	0.69
1:P:815:CYS:O	1:P:819:ASN:HB2	1.93	0.69
1:P:831:TRP:CZ3	2:Q:34:ILE:HG21	2.27	0.69
3:R:48:LYS:O	3:R:52:ASN:CG	2.34	0.69
4:4:1:ASP:HA	4:4:4:GLU:HB3	1.74	0.69
4:8:1:ASP:HA	4:8:4:GLU:HB3	1.74	0.69
4:V:325:MET:CE	4:X:244:ASP:OD2	2.34	0.69
1:A:813:ILE:CD1	2:B:128:PHE:HE1	2.06	0.69
1:D:642:LYS:HB3	4:9:21:PHE:O	1.93	0.69
1:D:732:ILE:HG23	1:D:747:LEU:CB	1.84	0.69
1:P:579:PHE:HD2	1:P:592:ILE:HD11	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:739:ASP:CB	1:P:742:LYS:HB3	2.12	0.69
1:P:793:ARG:CB	3:R:87:PHE:CZ	2.75	0.69
3:R:25:ILE:O	3:R:63:ILE:HB	1.92	0.69
4:2:1:ASP:HA	4:2:4:GLU:HB3	1.74	0.69
1:A:505:MLY:HH23	1:A:762:HIS:O	1.84	0.69
1:A:642:LYS:HB3	4:8:21:PHE:O	1.93	0.69
1:A:813:ILE:HG12	2:B:128:PHE:CE1	2.27	0.69
1:D:534:SER:C	4:9:351:THR:CA	2.47	0.69
1:D:630:ALA:O	4:9:25:ASP:CB	2.41	0.69
1:D:732:ILE:HD13	1:D:782:MLY:HH11	1.74	0.69
2:E:117:LEU:HD12	2:E:147:ASN:CA	2.20	0.69
2:E:149:ASP:OD2	2:E:150:TYR:C	2.36	0.69
1:G:815:CYS:O	1:G:819:ASN:HB2	1.93	0.69
1:J:93:MET:HE1	1:J:716:LEU:CD1	2.23	0.69
1:J:537:GLU:C	4:W:351:THR:N	2.51	0.69
1:P:546:THR:HG22	1:P:548:THR:N	2.05	0.69
1:P:636:LYS:HG3	4:0:334:GLU:CD	2.17	0.69
1:P:795:ARG:CZ	3:R:42:THR:CB	2.68	0.69
4:4:3:ASP:HA	4:4:6:THR:CB	2.18	0.69
1:A:831:TRP:CZ2	2:B:50:THR:HB	2.23	0.68
1:D:727:LEU:CA	1:D:782:MLY:HE2	2.13	0.68
3:F:48:LYS:O	3:F:52:ASN:CG	2.34	0.68
1:G:556:ASP:OD2	4:X:47:MET:CE	2.39	0.68
1:J:739:ASP:CB	1:J:742:LYS:HB3	2.12	0.68
1:J:817:GLN:CD	2:K:127:ARG:CG	2.65	0.68
1:J:829:TRP:CE2	2:K:87:LYS:HE2	2.29	0.68
1:P:62:VAL:HG12	1:P:63:MLY:O	1.94	0.68
1:P:642:LYS:HB3	4:0:21:PHE:O	1.92	0.68
4:9:160:THR:HG21	4:9:274:ILE:HD11	1.75	0.68
1:A:52:ILE:HD13	1:A:52:ILE:N	2.08	0.68
1:A:754:ASP:OD2	1:A:774:LEU:CD2	2.41	0.68
1:A:818:TYR:HB3	2:B:90:GLY:N	2.07	0.68
1:D:537:GLU:C	4:9:351:THR:N	2.51	0.68
1:D:834:LEU:HG	2:E:54:MET:CG	2.14	0.68
1:G:641:LYS:HD2	4:V:348:SER:HA	1.73	0.68
1:G:652:LEU:O	1:G:655:GLU:N	2.27	0.68
1:G:782:MLY:C	1:G:783:LEU:HD12	2.22	0.68
1:G:784:ALA:O	1:G:788:THR:HB	1.94	0.68
1:J:541:MET:CG	4:W:345:ILE:O	2.40	0.68
1:J:546:THR:HG22	1:J:548:THR:N	2.05	0.68
1:J:757:GLN:HA	1:J:776:GLU:CG	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:117:LEU:CB	2:K:147:ASN:OD1	2.39	0.68
1:P:97:LEU:HD21	1:P:712:PRO:CB	2.18	0.68
1:P:782:MLY:C	1:P:783:LEU:HD12	2.22	0.68
4:3:160:THR:HG21	4:3:274:ILE:HD11	1.76	0.68
4:5:1:ASP:HA	4:5:4:GLU:HB3	1.74	0.68
1:A:28:GLN:HE22	1:A:723:ARG:NH2	1.86	0.68
1:A:499:GLU:CD	1:A:766:PHE:CZ	2.69	0.68
1:A:810:ARG:HG2	1:A:810:ARG:HH11	1.57	0.68
3:C:3:SER:O	3:C:4:LYS:CB	2.41	0.68
1:D:815:CYS:O	1:D:819:ASN:HB2	1.93	0.68
3:F:4:LYS:N	3:F:5:ALA:O	2.16	0.68
1:G:213:LYS:HA	1:G:220:ASP:OD1	1.92	0.68
1:G:802:GLU:OE1	1:G:802:GLU:HA	1.93	0.68
1:J:807:VAL:O	1:J:810:ARG:HB2	1.93	0.68
1:J:819:ASN:OD1	2:K:92:ASP:CB	2.41	0.68
1:J:829:TRP:CZ3	2:K:84:PHE:CE1	2.81	0.68
1:P:94:MET:O	1:P:713:SER:CB	2.37	0.68
4:0:160:THR:HG21	4:0:274:ILE:HD11	1.75	0.68
4:1:244:ASP:CB	4:Z:322:PRO:CB	2.65	0.68
4:7:160:THR:HG21	4:7:274:ILE:HD11	1.76	0.68
4:W:160:THR:HG21	4:W:274:ILE:HD11	1.76	0.68
4:Y:160:THR:HG21	4:Y:274:ILE:HD11	1.75	0.68
1:A:213:LYS:HA	1:A:220:ASP:OD1	1.92	0.68
2:B:111:SER:OG	2:B:148:VAL:HG12	1.92	0.68
1:D:62:VAL:HG12	1:D:63:MLY:O	1.93	0.68
1:G:52:ILE:HD13	1:G:52:ILE:N	2.09	0.68
4:3:324:THR:CG2	4:5:244:ASP:C	2.55	0.68
4:Z:1:ASP:HA	4:Z:4:GLU:HB3	1.74	0.68
1:A:537:GLU:HG3	4:8:350:SER:O	1.79	0.68
1:A:815:CYS:O	1:A:819:ASN:HB2	1.93	0.68
1:D:533:PHE:O	1:D:537:GLU:HG2	1.93	0.68
3:F:48:LYS:HB3	3:F:52:ASN:HD21	1.57	0.68
1:G:533:PHE:O	1:G:537:GLU:HG2	1.93	0.68
1:G:642:LYS:HB3	4:V:21:PHE:O	1.92	0.68
1:J:831:TRP:HE1	2:K:67:MET:CB	2.04	0.68
1:P:807:VAL:O	1:P:810:ARG:HB2	1.93	0.68
2:Q:149:ASP:OD2	2:Q:150:TYR:C	2.36	0.68
4:V:325:MET:CE	4:X:244:ASP:CB	2.70	0.68
1:D:556:ASP:HA	4:W:49:GLN:O	1.70	0.68
1:D:724:TYR:HB3	1:D:782:MLY:NZ	2.09	0.68
2:E:140:PHE:O	2:E:141:PRO:C	2.33	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:CG	4:V:22:ALA:C	2.66	0.68
2:H:117:LEU:CB	2:H:147:ASN:OD1	2.39	0.68
1:J:642:LYS:CG	4:W:22:ALA:C	2.67	0.68
1:J:769:ALA:CB	1:J:770:GLY:HA3	2.24	0.68
1:J:797:PHE:HE2	3:L:126:LEU:HD22	1.58	0.68
3:L:48:LYS:HB3	3:L:52:ASN:HD21	1.57	0.68
1:A:408:VAL:HG12	4:8:332:PRO:HB3	1.76	0.68
1:A:807:VAL:O	1:A:810:ARG:HB2	1.93	0.68
1:D:802:GLU:OE1	1:D:802:GLU:HA	1.93	0.68
1:D:831:TRP:CZ3	2:E:34:ILE:HG21	2.25	0.68
1:G:408:VAL:HG12	4:V:332:PRO:HB3	1.76	0.68
1:G:838:ILE:CD1	2:H:54:MET:HE1	2.14	0.68
1:J:533:PHE:O	1:J:537:GLU:HG2	1.93	0.68
1:P:84:MLY:CD	1:P:723:ARG:CD	2.72	0.68
1:P:838:ILE:HD11	2:Q:54:MET:SD	2.30	0.68
1:A:537:GLU:C	4:8:351:THR:N	2.52	0.68
1:A:652:LEU:O	1:A:655:GLU:N	2.27	0.68
3:C:25:ILE:O	3:C:63:ILE:HB	1.92	0.68
1:D:123:CYS:HB2	1:D:158:ILE:CD1	2.23	0.68
1:D:215:GLN:HA	1:D:340:ILE:CB	2.23	0.68
1:D:712:PRO:CB	1:D:771:LEU:HD22	2.23	0.68
1:G:789:ALA:HB1	3:I:81:GLN:CD	2.18	0.68
1:J:62:VAL:HG12	1:J:63:MLY:O	1.93	0.68
1:J:815:CYS:O	1:J:819:ASN:HB2	1.93	0.68
1:J:821:ARG:HH22	2:K:127:ARG:CG	2.00	0.68
1:P:642:LYS:CG	4:0:22:ALA:C	2.67	0.68
1:P:813:ILE:CG2	2:Q:128:PHE:CZ	2.76	0.68
4:5:160:THR:HG21	4:5:274:ILE:HD11	1.76	0.68
2:B:149:ASP:OD2	2:B:150:TYR:C	2.36	0.68
1:D:550:PHE:HE2	1:D:592:ILE:HG23	1.59	0.68
1:D:769:ALA:O	1:D:774:LEU:CB	2.42	0.68
1:D:787:ILE:HG22	1:D:788:THR:N	2.07	0.68
1:D:822:SER:OG	2:E:88:LEU:HD22	1.86	0.68
1:G:541:MET:CG	4:V:345:ILE:O	2.41	0.68
1:G:550:PHE:HE2	1:G:592:ILE:HG23	1.59	0.68
1:G:643:GLY:H	4:V:23:GLY:C	2.02	0.68
1:G:754:ASP:CG	1:G:776:GLU:HA	2.18	0.68
1:G:796:GLY:HA2	3:I:35:ARG:NE	2.08	0.68
1:J:84:MLY:HH12	1:J:720:PHE:HD1	1.59	0.68
1:P:818:TYR:CD1	2:Q:127:ARG:NH1	2.62	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)
1:A:541:MET:CG	4:8:345:ILE:O	2.41	0.68
1:D:52:ILE:HD13	1:D:52:ILE:N	2.09	0.68
1:D:795:ARG:HH21	3:F:116:GLU:HB3	1.59	0.68
2:E:117:LEU:CG	2:E:147:ASN:HB3	2.24	0.68
1:G:807:VAL:O	1:G:810:ARG:HB2	1.93	0.68
1:P:166:MET:HE1	1:P:254:PHE:HD2	1.56	0.68
1:P:550:PHE:HE2	1:P:592:ILE:HG23	1.59	0.68
1:P:730:SER:C	1:P:733:PRO:HD2	2.19	0.68
4:4:153:LEU:HD11	4:4:274:ILE:HG13	1.76	0.68
4:X:160:THR:HG21	4:X:274:ILE:HD11	1.75	0.68
1:A:739:ASP:CB	1:A:742:LYS:HB3	2.12	0.67
1:D:652:LEU:O	1:D:655:GLU:N	2.27	0.67
1:G:553:MLY:CD	4:X:45:VAL:HG12	2.23	0.67
1:G:754:ASP:C	1:G:776:GLU:OE1	2.37	0.67
1:G:797:PHE:CE2	3:I:126:LEU:CD1	2.77	0.67
1:J:802:GLU:OE1	1:J:802:GLU:HA	1.92	0.67
1:J:817:GLN:OE1	2:K:127:ARG:CD	2.39	0.67
1:P:537:GLU:C	4:O:351:THR:N	2.51	0.67
2:Q:117:LEU:CG	2:Q:147:ASN:HB3	2.25	0.67
4:O:243:PRO:HB2	4:Y:291:LYS:HZ1	1.58	0.67
1:A:58:GLY:HA2	1:A:74:GLU:OE1	1.94	0.67
1:A:149:GLN:CB	1:A:718:ALA:C	2.59	0.67
1:A:630:ALA:O	4:8:25:ASP:CB	2.41	0.67
1:A:831:TRP:HZ3	2:B:50:THR:HG21	0.72	0.67
2:B:141:PRO:O	2:B:145:ALA:CB	2.43	0.67
1:G:556:ASP:CG	4:X:47:MET:HE2	1.84	0.67
2:H:149:ASP:OD2	2:H:150:TYR:C	2.36	0.67
1:J:546:THR:H	1:J:549:SER:HB3	1.59	0.67
1:J:795:ARG:HG3	3:L:116:GLU:OE2	1.95	0.67
1:P:652:LEU:O	1:P:655:GLU:N	2.26	0.67
1:P:787:ILE:HG22	1:P:788:THR:N	2.07	0.67
2:Q:117:LEU:CB	2:Q:147:ASN:OD1	2.39	0.67
4:O:153:LEU:HD11	4:O:274:ILE:HG13	1.76	0.67
4:1:322:PRO:CB	4:3:244:ASP:HB2	2.23	0.67
4:2:160:THR:HG21	4:2:274:ILE:HD11	1.75	0.67
4:Y:153:LEU:HD11	4:Y:274:ILE:HG13	1.76	0.67
1:A:502:GLU:HA	1:A:761:GLY:C	2.18	0.67
1:A:546:THR:H	1:A:549:SER:HB3	1.59	0.67
1:A:836:PHE:CE1	2:B:159:HIS:CA	2.76	0.67
1:D:819:ASN:N	2:E:90:GLY:O	2.26	0.67
1:G:93:MET:HE2	1:G:764:MLY:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:537:GLU:C	4:V:351:THR:N	2.51	0.67
1:J:123:CYS:HB2	1:J:158:ILE:CD1	2.23	0.67
1:J:732:ILE:HG23	1:J:747:LEU:CB	1.84	0.67
2:K:149:ASP:OD2	2:K:150:TYR:C	2.36	0.67
1:P:131:TRP:O	1:P:132:LEU:HD12	1.95	0.67
1:P:546:THR:H	1:P:549:SER:HB3	1.59	0.67
4:3:288:ASP:CB	4:5:203:THR:HG21	2.25	0.67
1:A:797:PHE:CD1	3:C:146:ILE:C	2.72	0.67
1:D:642:LYS:CG	4:9:22:ALA:C	2.67	0.67
1:G:58:GLY:HA2	1:G:74:GLU:OE1	1.95	0.67
1:G:529:PRO:C	4:V:354:GLN:CB	2.50	0.67
1:G:818:TYR:CD1	2:H:127:ARG:NH1	2.63	0.67
1:J:149:GLN:HG2	1:J:716:LEU:HD11	1.75	0.67
1:J:612:GLN:NE2	1:J:627:GLY:N	2.43	0.67
4:8:153:LEU:HD11	4:8:274:ILE:HG13	1.76	0.67
1:A:730:SER:C	1:A:733:PRO:HD2	2.20	0.67
1:D:546:THR:H	1:D:549:SER:HB3	1.59	0.67
2:H:117:LEU:CG	2:H:147:ASN:HB3	2.24	0.67
1:J:374:GLN:HG3	1:J:375:ALA:H	1.59	0.67
1:J:642:LYS:HB3	4:W:21:PHE:O	1.92	0.67
1:J:769:ALA:HB3	1:J:770:GLY:CA	2.24	0.67
1:J:817:GLN:CG	2:K:127:ARG:CG	2.72	0.67
2:K:117:LEU:CG	2:K:147:ASN:HB3	2.24	0.67
1:P:374:GLN:HG3	1:P:375:ALA:H	1.59	0.67
1:P:508:ILE:HD11	1:P:759:ALA:HB1	1.67	0.67
2:Q:141:PRO:O	2:Q:145:ALA:CB	2.43	0.67
4:V:153:LEU:HD11	4:V:274:ILE:HG13	1.76	0.67
1:A:217:THR:O	1:A:221:GLN:HG2	1.95	0.67
3:C:102:VAL:HG23	3:C:139:TYR:HD1	1.60	0.67
1:G:217:THR:O	1:G:221:GLN:HG2	1.95	0.67
1:J:58:GLY:HA2	1:J:74:GLU:OE1	1.95	0.67
1:J:480:ILE:HG22	1:J:481:ASN:ND2	2.10	0.67
1:J:652:LEU:O	1:J:655:GLU:N	2.27	0.67
1:J:796:GLY:CA	3:L:35:ARG:HD3	2.25	0.67
1:P:93:MET:HA	1:P:714:ARG:H	1.58	0.67
4:1:160:THR:HG21	4:1:274:ILE:HD11	1.75	0.67
4:V:160:THR:HG21	4:V:274:ILE:HD11	1.76	0.67
1:D:612:GLN:NE2	1:D:627:GLY:N	2.43	0.67
1:D:712:PRO:C	1:D:771:LEU:HD22	2.20	0.67
1:D:713:SER:HB3	1:D:775:LEU:HD22	1.77	0.67
1:G:202:SER:HA	1:G:207:LYS:HE3	1.72	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:290:GLN:O	1:G:331:LEU:HD12	1.95	0.67
1:G:831:TRP:HZ3	2:H:34:ILE:HG21	1.60	0.67
1:J:290:GLN:O	1:J:331:LEU:HD12	1.95	0.67
1:J:730:SER:C	1:J:733:PRO:HD2	2.20	0.67
3:L:3:SER:O	3:L:4:LYS:CB	2.41	0.67
1:P:84:MLY:HH22	1:P:723:ARG:HB2	1.76	0.67
1:P:635:GLY:O	4:0:341:ILE:HG21	1.95	0.67
3:R:4:LYS:N	3:R:5:ALA:O	2.16	0.67
1:A:61:THR:HG23	1:A:71:THR:OG1	1.94	0.67
1:A:799:MET:SD	3:C:32:ASP:C	2.78	0.67
1:A:839:MLY:CH1	2:B:159:HIS:CD2	2.77	0.67
1:D:58:GLY:HA2	1:D:74:GLU:OE1	1.95	0.67
1:D:480:ILE:HG22	1:D:481:ASN:ND2	2.09	0.67
1:D:642:LYS:CD	4:9:24:ASP:O	2.42	0.67
1:G:62:VAL:HG12	1:G:63:MLY:O	1.94	0.67
1:G:813:ILE:CG2	2:H:128:PHE:HE1	2.07	0.67
2:H:141:PRO:O	2:H:145:ALA:CB	2.43	0.67
1:J:166:MET:HE1	1:J:254:PHE:HD2	1.56	0.67
2:K:117:LEU:HD11	2:K:147:ASN:HB3	1.76	0.67
1:P:533:PHE:O	1:P:537:GLU:HG2	1.93	0.67
1:P:734:GLU:OE2	3:R:92:ARG:HB3	1.94	0.67
1:P:767:PHE:CD1	1:P:772:LEU:HD13	2.29	0.67
1:P:786:ILE:CA	1:P:788:THR:H	2.07	0.67
1:P:831:TRP:HZ3	2:Q:34:ILE:HG21	1.60	0.67
4:W:153:LEU:HD11	4:W:274:ILE:HG13	1.76	0.67
4:X:291:LYS:HD2	4:Z:243:PRO:C	2.10	0.67
1:A:62:VAL:HG12	1:A:63:MLY:O	1.93	0.67
1:A:533:PHE:O	1:A:537:GLU:HG2	1.93	0.67
1:A:541:MET:C	4:8:143:TYR:CZ	2.73	0.67
1:A:732:ILE:HG23	1:A:747:LEU:CB	1.85	0.67
1:A:823:PHE:CD1	2:B:160:GLY:HA2	2.30	0.67
3:F:102:VAL:HG23	3:F:139:TYR:HD1	1.59	0.67
1:G:817:GLN:HG3	2:H:128:PHE:CZ	2.30	0.67
3:I:24:LYS:HA	3:I:63:ILE:O	1.95	0.67
1:J:52:ILE:HD13	1:J:52:ILE:N	2.09	0.67
1:J:537:GLU:HG3	4:W:350:SER:O	1.78	0.67
1:P:648:THR:CB	4:0:350:SER:OG	2.43	0.67
4:8:160:THR:HG21	4:8:274:ILE:HD11	1.76	0.67
4:X:287:ILE:C	4:Z:205:GLU:OE1	2.37	0.67
1:A:795:ARG:NH2	3:C:116:GLU:OE1	2.25	0.67
1:A:837:MLY:CH2	2:H:20:ASP:HB2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:117:LEU:CG	2:B:147:ASN:HB3	2.24	0.67
1:D:131:TRP:O	1:D:132:LEU:HD12	1.95	0.67
1:D:374:GLN:HG3	1:D:375:ALA:H	1.60	0.67
2:E:141:PRO:O	2:E:145:ALA:CB	2.43	0.67
1:G:78:PHE:HB3	1:G:98:HIS:CD2	2.30	0.67
1:J:635:GLY:O	4:W:341:ILE:HG21	1.95	0.67
2:K:141:PRO:O	2:K:145:ALA:CB	2.43	0.67
1:P:290:GLN:O	1:P:331:LEU:HD12	1.95	0.67
1:P:544:LYS:HZ1	4:2:45:VAL:HG21	1.59	0.67
4:X:153:LEU:HD11	4:X:274:ILE:HG13	1.76	0.67
1:A:550:PHE:HE2	1:A:592:ILE:HG23	1.59	0.66
1:A:795:ARG:CB	3:C:35:ARG:NH2	2.52	0.66
1:A:817:GLN:HG3	2:B:127:ARG:HB3	1.77	0.66
1:D:166:MET:HE1	1:D:254:PHE:HD2	1.56	0.66
1:D:546:THR:HG22	1:D:548:THR:N	2.05	0.66
1:D:713:SER:CB	1:D:775:LEU:CD2	2.73	0.66
1:G:131:TRP:O	1:G:132:LEU:HD12	1.95	0.66
1:J:643:GLY:N	4:W:24:ASP:CA	2.46	0.66
1:P:58:GLY:HA2	1:P:74:GLU:OE1	1.95	0.66
1:P:418:THR:HG22	1:P:419:VAL:N	2.11	0.66
1:P:541:MET:C	4:0:143:TYR:CZ	2.72	0.66
3:R:3:SER:O	3:R:4:LYS:CB	2.41	0.66
3:R:24:LYS:HA	3:R:63:ILE:O	1.95	0.66
4:9:153:LEU:HD11	4:9:274:ILE:HG13	1.76	0.66
4:W:324:THR:HG22	4:Y:247:VAL:HG13	1.77	0.66
4:X:287:ILE:O	4:Z:205:GLU:CD	2.38	0.66
4:Z:153:LEU:HD11	4:Z:274:ILE:HG13	1.76	0.66
1:A:78:PHE:HB3	1:A:98:HIS:CD2	2.30	0.66
1:A:648:THR:CB	4:8:350:SER:OG	2.43	0.66
1:D:541:MET:C	4:9:143:TYR:CZ	2.73	0.66
1:G:61:THR:HG23	1:G:71:THR:OG1	1.94	0.66
1:G:84:MLY:CH1	1:G:724:TYR:CD2	2.71	0.66
1:G:546:THR:H	1:G:549:SER:HB3	1.59	0.66
1:G:599:ASN:OD1	1:G:649:VAL:N	2.29	0.66
1:J:408:VAL:HG12	4:W:332:PRO:HB3	1.76	0.66
1:J:541:MET:O	4:W:143:TYR:OH	2.14	0.66
1:J:756:THR:C	1:J:776:GLU:CD	2.64	0.66
1:P:174:SER:O	1:P:670:HIS:HB2	1.95	0.66
1:P:339:ASP:OD1	1:P:348:MLY:HH13	1.95	0.66
1:D:339:ASP:OD1	1:D:348:MLY:HH13	1.95	0.66
1:D:418:THR:HG22	1:D:419:VAL:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:648:THR:CB	4:9:350:SER:OG	2.43	0.66
1:G:174:SER:O	1:G:670:HIS:HB2	1.96	0.66
1:G:505:MLY:CE	1:G:762:HIS:CE1	2.79	0.66
1:G:797:PHE:HE2	3:I:126:LEU:CD1	2.08	0.66
1:G:831:TRP:HE1	2:H:67:MET:CB	1.96	0.66
1:J:131:TRP:O	1:J:132:LEU:HD12	1.95	0.66
1:J:541:MET:C	4:W:143:TYR:CZ	2.72	0.66
1:J:755:HIS:N	1:J:780:ASP:OD2	2.28	0.66
1:P:84:MLY:CB	1:P:723:ARG:NE	2.58	0.66
1:P:84:MLY:HA	1:P:723:ARG:NH2	2.11	0.66
1:P:599:ASN:OD1	1:P:649:VAL:N	2.29	0.66
1:P:612:GLN:NE2	1:P:627:GLY:N	2.43	0.66
4:1:203:THR:N	4:Z:287:ILE:HB	2.04	0.66
4:1:287:ILE:CG2	4:3:202:THR:C	2.68	0.66
1:A:418:THR:HG22	1:A:419:VAL:N	2.11	0.66
1:A:642:LYS:CD	4:8:24:ASP:O	2.42	0.66
1:D:795:ARG:HE	3:F:116:GLU:HB3	1.61	0.66
2:E:141:PRO:O	2:E:145:ALA:HB2	1.96	0.66
1:G:374:GLN:HG3	1:G:375:ALA:H	1.60	0.66
1:G:799:MET:SD	3:I:32:ASP:CG	2.78	0.66
2:H:146:GLY:O	2:H:147:ASN:HB2	1.96	0.66
1:J:174:SER:O	1:J:670:HIS:HB2	1.95	0.66
1:J:339:ASP:OD1	1:J:348:MLY:HH13	1.95	0.66
1:J:648:THR:CB	4:W:350:SER:OG	2.43	0.66
1:P:52:ILE:HD13	1:P:52:ILE:N	2.09	0.66
1:P:217:THR:O	1:P:221:GLN:HG2	1.95	0.66
1:P:322:VAL:HB	1:P:325:ILE:CD1	2.26	0.66
1:P:544:LYS:NZ	4:2:45:VAL:CG2	2.59	0.66
1:A:174:SER:O	1:A:670:HIS:HB2	1.96	0.66
1:A:501:GLU:O	1:A:762:HIS:CD2	2.48	0.66
1:A:815:CYS:O	2:B:90:GLY:O	2.13	0.66
1:D:290:GLN:O	1:D:331:LEU:HD12	1.95	0.66
1:D:599:ASN:OD1	1:D:649:VAL:N	2.29	0.66
1:D:730:SER:C	1:D:733:PRO:HD2	2.20	0.66
1:G:84:MLY:CA	1:G:723:ARG:CZ	2.72	0.66
1:G:148:ARG:NH2	1:G:764:MLY:CH2	2.55	0.66
1:G:648:THR:CB	4:V:350:SER:OG	2.44	0.66
1:G:732:ILE:HG21	1:G:747:LEU:HD11	0.72	0.66
1:J:322:VAL:HB	1:J:325:ILE:CD1	2.26	0.66
1:J:796:GLY:HA2	3:L:35:ARG:CG	2.25	0.66
1:P:408:VAL:HG12	4:0:332:PRO:HB3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:643:GLY:H	4:0:23:GLY:C	2.02	0.66
1:A:131:TRP:O	1:A:132:LEU:HD12	1.95	0.66
1:A:480:ILE:HG22	1:A:481:ASN:ND2	2.09	0.66
1:A:642:LYS:CG	4:8:22:ALA:C	2.67	0.66
1:D:174:SER:O	1:D:670:HIS:HB2	1.96	0.66
1:D:541:MET:O	4:9:143:TYR:OH	2.14	0.66
3:F:24:LYS:HA	3:F:63:ILE:O	1.95	0.66
1:G:541:MET:C	4:V:143:TYR:CZ	2.73	0.66
1:G:755:HIS:H	1:G:779:ARG:NH2	1.91	0.66
3:I:102:VAL:HG23	3:I:139:TYR:HD1	1.59	0.66
1:J:84:MLY:CH2	1:J:719:ASP:O	2.44	0.66
1:J:550:PHE:HE2	1:J:592:ILE:HG23	1.59	0.66
2:K:141:PRO:O	2:K:145:ALA:HB2	1.96	0.66
1:P:541:MET:O	4:0:143:TYR:OH	2.14	0.66
4:4:160:THR:HG21	4:4:274:ILE:HD11	1.76	0.66
4:Z:160:THR:HG21	4:Z:274:ILE:HD11	1.76	0.66
1:A:612:GLN:NE2	1:A:627:GLY:N	2.43	0.66
1:A:732:ILE:HG22	1:A:747:LEU:CD1	1.55	0.66
1:A:732:ILE:HG21	1:A:747:LEU:HD11	0.73	0.66
1:D:226:ASN:HB2	1:D:227:PRO:HD3	1.78	0.66
1:D:408:VAL:HG12	4:9:332:PRO:HB3	1.76	0.66
1:D:507:GLY:HA2	1:D:762:HIS:ND1	2.11	0.66
1:G:226:ASN:HB2	1:G:227:PRO:HD3	1.78	0.66
1:G:505:MLY:CD	1:G:762:HIS:NE2	2.59	0.66
1:G:612:GLN:NE2	1:G:627:GLY:N	2.43	0.66
1:G:639:GLY:N	4:V:344:SER:C	2.54	0.66
1:G:823:PHE:CE1	2:H:156:VAL:O	2.49	0.66
1:J:78:PHE:HB3	1:J:98:HIS:CD2	2.30	0.66
3:L:102:VAL:HG23	3:L:139:TYR:HD1	1.59	0.66
1:P:734:GLU:HG2	3:R:93:VAL:HG22	1.77	0.66
4:1:288:ASP:H	4:3:203:THR:CG2	2.08	0.66
1:A:161:ASN:O	1:A:165:PHE:HB2	1.96	0.66
1:A:498:LEU:HD21	1:A:764:MLY:CH2	2.23	0.66
1:A:538:GLU:HA	4:8:349:LEU:HB3	1.78	0.66
1:A:768:MLY:CG	1:A:771:LEU:HD13	2.23	0.66
1:D:322:VAL:HB	1:D:325:ILE:CD1	2.26	0.66
1:D:557:GLU:N	4:W:48:GLY:HA3	1.90	0.66
2:E:146:GLY:O	2:E:147:ASN:HB2	1.96	0.66
1:G:730:SER:C	1:G:733:PRO:HD2	2.20	0.66
1:J:97:LEU:HD22	1:J:712:PRO:CB	2.24	0.66
1:J:226:ASN:HB2	1:J:227:PRO:HD3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:639:GLY:N	4:W:344:SER:C	2.54	0.66
1:J:643:GLY:H	4:W:23:GLY:C	2.02	0.66
1:P:642:LYS:HA	4:O:21:PHE:O	1.96	0.66
2:Q:141:PRO:O	2:Q:145:ALA:HB2	1.96	0.66
2:Q:146:GLY:O	2:Q:147:ASN:HB2	1.96	0.66
4:7:153:LEU:HD11	4:7:274:ILE:HG13	1.76	0.66
4:V:288:ASP:H	4:X:204:ALA:H	1.43	0.66
1:A:339:ASP:OD1	1:A:348:MLY:HH13	1.95	0.66
1:A:530:MET:CG	4:8:354:GLN:CG	2.71	0.66
1:G:635:GLY:O	4:V:341:ILE:HG21	1.95	0.66
1:G:795:ARG:CZ	3:I:116:GLU:OE2	2.44	0.66
1:J:84:MLY:O	1:J:723:ARG:HD2	1.91	0.66
1:J:217:THR:O	1:J:221:GLN:HG2	1.95	0.66
1:P:480:ILE:HG22	1:P:481:ASN:ND2	2.10	0.66
1:P:534:SER:C	4:O:351:THR:CA	2.47	0.66
4:1:153:LEU:HD11	4:1:274:ILE:HG13	1.76	0.66
1:A:144:ARG:NH1	1:A:160:ASP:OD1	2.29	0.66
1:A:530:MET:CA	4:8:354:GLN:CB	2.74	0.66
1:D:217:THR:C	1:D:221:GLN:HG2	2.21	0.66
1:D:643:GLY:H	4:9:23:GLY:C	2.02	0.66
1:D:708:ARG:CA	1:D:710:GLY:N	2.59	0.66
1:G:510:TRP:CZ2	1:G:768:MLY:HH11	2.30	0.66
1:G:757:GLN:OE1	1:G:772:LEU:HA	1.96	0.66
1:G:783:LEU:O	1:G:787:ILE:CA	2.43	0.66
1:G:795:ARG:CB	3:I:35:ARG:NH1	2.53	0.66
1:G:829:TRP:CH2	2:H:84:PHE:CE1	2.84	0.66
1:J:61:THR:HG23	1:J:71:THR:OG1	1.95	0.66
1:J:567:LYS:HZ3	4:Y:92:ASN:ND2	1.94	0.66
1:J:691:VAL:O	1:J:695:LEU:HD13	1.96	0.66
1:J:820:VAL:CG1	2:K:136:MET:CE	2.44	0.66
1:P:78:PHE:HB3	1:P:98:HIS:CD2	2.30	0.66
1:P:161:ASN:O	1:P:165:PHE:HB2	1.96	0.66
1:P:665:ARG:C	1:P:667:THR:H	2.04	0.66
1:P:691:VAL:O	1:P:695:LEU:HD13	1.96	0.66
1:P:800:ARG:HB3	3:R:149:VAL:HG13	1.77	0.66
4:2:287:ILE:HG22	4:4:204:ALA:HB3	1.76	0.66
4:5:153:LEU:HD11	4:5:274:ILE:HG13	1.76	0.66
1:A:217:THR:C	1:A:221:GLN:HG2	2.21	0.65
1:A:296:MLY:HH11	1:A:348:MLY:HH21	1.78	0.65
3:C:24:LYS:HA	3:C:63:ILE:O	1.95	0.65
1:G:144:ARG:NH1	1:G:160:ASP:OD1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:754:ASP:OD2	1:G:776:GLU:HA	1.97	0.65
1:G:795:ARG:C	3:I:35:ARG:NH2	2.53	0.65
1:G:829:TRP:CZ2	2:H:83:MET:CE	2.76	0.65
1:J:144:ARG:NH1	1:J:160:ASP:OD1	2.29	0.65
1:J:599:ASN:OD1	1:J:649:VAL:N	2.29	0.65
1:P:61:THR:HG23	1:P:71:THR:OG1	1.95	0.65
1:P:506:GLU:OE2	1:P:760:PHE:CB	2.14	0.65
1:D:466:GLY:HA2	1:D:484:ASN:HD21	1.61	0.65
1:D:530:MET:CG	4:9:354:GLN:CG	2.71	0.65
1:D:819:ASN:CA	2:E:90:GLY:O	2.43	0.65
1:G:161:ASN:O	1:G:165:PHE:HB2	1.96	0.65
1:G:480:ILE:HG22	1:G:481:ASN:ND2	2.10	0.65
1:G:541:MET:O	4:V:143:TYR:OH	2.13	0.65
1:J:161:ASN:O	1:J:165:PHE:HB2	1.96	0.65
1:J:217:THR:C	1:J:221:GLN:HG2	2.21	0.65
1:P:829:TRP:CZ2	2:Q:83:MET:HE3	2.31	0.65
1:A:94:MET:HE1	1:A:101:ALA:HB1	1.79	0.65
1:A:753:VAL:HG11	1:A:775:LEU:CD2	2.25	0.65
2:B:117:LEU:HD11	2:B:147:ASN:HB3	1.75	0.65
3:C:45:GLU:O	3:C:49:ILE:HG13	1.96	0.65
3:C:49:ILE:HA	3:C:52:ASN:ND2	2.05	0.65
1:D:635:GLY:O	4:9:341:ILE:HG21	1.95	0.65
1:G:818:TYR:HB3	2:H:90:GLY:CA	2.26	0.65
1:J:642:LYS:HA	4:W:21:PHE:O	1.96	0.65
1:J:665:ARG:C	1:J:667:THR:H	2.05	0.65
1:P:226:ASN:HB2	1:P:227:PRO:HD3	1.78	0.65
1:P:817:GLN:HG2	2:Q:127:ARG:HB3	1.78	0.65
3:R:102:VAL:HG23	3:R:139:TYR:HD1	1.59	0.65
4:X:286:ASP:OD1	4:Z:202:THR:CA	2.44	0.65
1:A:226:ASN:HB2	1:A:227:PRO:HD3	1.77	0.65
1:A:290:GLN:O	1:A:331:LEU:HD12	1.95	0.65
1:A:665:ARG:C	1:A:667:THR:H	2.05	0.65
1:A:691:VAL:O	1:A:695:LEU:HD13	1.97	0.65
2:B:144:VAL:CG1	2:B:153:ILE:HD13	2.19	0.65
1:D:217:THR:O	1:D:221:GLN:HG2	1.94	0.65
1:D:612:GLN:HE22	1:D:627:GLY:N	1.94	0.65
1:D:691:VAL:O	1:D:695:LEU:HD13	1.97	0.65
2:E:117:LEU:CB	2:E:147:ASN:OD1	2.39	0.65
1:G:410:ASN:CG	4:V:334:GLU:C	2.64	0.65
1:G:480:ILE:HG22	1:G:481:ASN:N	2.11	0.65
1:G:831:TRP:CZ3	2:H:34:ILE:HG21	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:834:LEU:HD22	2:H:34:ILE:CD1	2.26	0.65
2:H:141:PRO:O	2:H:145:ALA:HB2	1.96	0.65
1:J:418:THR:HG22	1:J:419:VAL:N	2.11	0.65
3:L:24:LYS:HA	3:L:63:ILE:O	1.95	0.65
1:P:503:TYR:OH	1:P:711:PHE:CD2	2.12	0.65
1:A:374:GLN:HG3	1:A:375:ALA:H	1.59	0.65
1:A:480:ILE:HG22	1:A:481:ASN:N	2.11	0.65
1:A:557:GLU:N	4:V:48:GLY:HA3	1.90	0.65
1:A:635:GLY:O	4:8:341:ILE:HG21	1.95	0.65
1:A:643:GLY:N	4:8:24:ASP:CA	2.46	0.65
1:D:61:THR:HG23	1:D:71:THR:OG1	1.95	0.65
1:D:78:PHE:HB3	1:D:98:HIS:CD2	2.30	0.65
1:D:507:GLY:O	1:D:761:GLY:HA2	1.96	0.65
1:D:530:MET:CA	4:9:354:GLN:CB	2.74	0.65
1:D:798:LEU:HD21	3:F:122:GLU:HB3	1.77	0.65
1:D:822:SER:O	1:D:825:ASN:HB2	1.97	0.65
1:G:296:MLY:HH11	1:G:348:MLY:HH21	1.78	0.65
1:G:466:GLY:HA2	1:G:484:ASN:HD21	1.61	0.65
1:G:691:VAL:O	1:G:695:LEU:HD13	1.97	0.65
1:G:831:TRP:HH2	2:H:47:LEU:CD2	1.67	0.65
1:J:832:MET:SD	2:K:84:PHE:HE2	2.19	0.65
3:L:45:GLU:O	3:L:49:ILE:HG13	1.96	0.65
4:1:202:THR:HB	4:Z:287:ILE:CG1	2.26	0.65
4:3:288:ASP:OD2	4:5:203:THR:CB	2.42	0.65
1:A:322:VAL:HB	1:A:325:ILE:CD1	2.26	0.65
1:A:599:ASN:OD1	1:A:649:VAL:N	2.29	0.65
2:B:146:GLY:O	2:B:147:ASN:HB2	1.96	0.65
1:D:94:MET:HE1	1:D:101:ALA:HB1	1.79	0.65
1:D:725:ARG:NE	1:D:737:PHE:HE1	1.95	0.65
1:G:339:ASP:OD1	1:G:348:MLY:HH13	1.95	0.65
1:G:418:THR:HG22	1:G:419:VAL:N	2.11	0.65
1:G:823:PHE:HE1	2:H:160:GLY:HA2	1.61	0.65
1:J:530:MET:CA	4:W:354:GLN:CB	2.74	0.65
1:J:710:GLY:O	1:J:772:LEU:CB	2.44	0.65
1:P:639:GLY:N	4:0:344:SER:C	2.54	0.65
1:P:799:MET:SD	3:R:35:ARG:HB2	2.36	0.65
4:0:205:GLU:CG	4:Y:287:ILE:HD13	2.26	0.65
4:3:153:LEU:HD11	4:3:274:ILE:HG13	1.76	0.65
1:A:822:SER:O	1:A:825:ASN:HB2	1.97	0.65
1:D:161:ASN:O	1:D:165:PHE:HB2	1.96	0.65
1:D:479:CYS:HB3	1:D:653:PHE:CE2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:466:GLY:HA2	1:G:484:ASN:ND2	2.12	0.65
1:G:530:MET:CG	4:V:354:GLN:CG	2.71	0.65
1:J:567:LYS:NZ	4:Y:92:ASN:HA	2.11	0.65
1:J:822:SER:O	1:J:825:ASN:HB2	1.97	0.65
1:P:144:ARG:NH1	1:P:160:ASP:OD1	2.29	0.65
1:P:217:THR:C	1:P:221:GLN:HG2	2.21	0.65
1:P:530:MET:CA	4:0:354:GLN:CB	2.74	0.65
1:P:724:TYR:CE1	1:P:776:GLU:OE2	2.49	0.65
1:A:818:TYR:HB2	2:B:90:GLY:N	2.10	0.65
1:D:642:LYS:HA	4:9:21:PHE:O	1.96	0.65
1:D:725:ARG:CA	1:D:782:MLY:CH2	2.74	0.65
3:F:45:GLU:O	3:F:49:ILE:HG13	1.97	0.65
1:G:754:ASP:O	1:G:776:GLU:CD	2.39	0.65
1:J:791:GLN:NE2	3:L:115:GLY:CA	2.59	0.65
2:K:146:GLY:O	2:K:147:ASN:HB2	1.96	0.65
1:P:817:GLN:CB	2:Q:127:ARG:CD	2.75	0.65
1:A:217:THR:HB	1:A:220:ASP:OD2	1.97	0.65
1:A:466:GLY:HA2	1:A:484:ASN:HD21	1.61	0.65
1:A:642:LYS:HA	4:8:21:PHE:O	1.96	0.65
1:A:643:GLY:H	4:8:23:GLY:C	2.02	0.65
1:A:725:ARG:NE	1:A:737:PHE:HE1	1.95	0.65
1:D:642:LYS:CD	4:9:340:TRP:CZ3	2.79	0.65
1:D:665:ARG:C	1:D:667:THR:H	2.04	0.65
1:G:642:LYS:CD	4:V:24:ASP:O	2.43	0.65
1:P:530:MET:CG	4:0:354:GLN:CG	2.72	0.65
1:D:202:SER:CA	1:D:207:LYS:HE3	2.27	0.65
1:D:834:LEU:HD12	2:E:54:MET:HB2	1.77	0.65
1:G:322:VAL:HB	1:G:325:ILE:CD1	2.26	0.65
1:G:725:ARG:NE	1:G:737:PHE:HE1	1.95	0.65
1:G:732:ILE:HG22	1:G:747:LEU:CD1	1.55	0.65
1:P:466:GLY:HA2	1:P:484:ASN:HD21	1.61	0.65
1:P:538:GLU:HA	4:0:349:LEU:HB3	1.78	0.65
1:P:636:LYS:O	1:P:637:LYS:CB	2.45	0.65
1:P:800:ARG:HG2	3:R:149:VAL:HG22	1.78	0.65
1:A:642:LYS:CD	4:8:340:TRP:CZ3	2.79	0.64
2:B:141:PRO:O	2:B:145:ALA:HB2	1.96	0.64
1:D:144:ARG:NH1	1:D:160:ASP:OD1	2.30	0.64
1:D:636:LYS:O	1:D:637:LYS:CB	2.45	0.64
1:D:639:GLY:N	4:9:344:SER:C	2.54	0.64
1:G:92:ALA:O	1:G:714:ARG:CG	2.45	0.64
1:G:553:MLY:O	4:X:46:GLY:CA	2.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:665:ARG:C	1:G:667:THR:H	2.05	0.64
1:J:725:ARG:NE	1:J:737:PHE:HE1	1.95	0.64
1:P:548:THR:HG22	4:2:49:GLN:CG	2.27	0.64
1:P:767:PHE:CD1	1:P:772:LEU:HD11	2.32	0.64
1:P:799:MET:CB	3:R:35:ARG:HD3	2.12	0.64
4:0:205:GLU:HG3	4:Y:287:ILE:HB	0.70	0.64
4:0:245:GLY:N	4:Y:291:LYS:CB	2.60	0.64
4:1:287:ILE:HG21	4:3:204:ALA:N	2.11	0.64
4:V:324:THR:HG23	4:X:247:VAL:H	1.61	0.64
1:A:466:GLY:HA2	1:A:484:ASN:ND2	2.12	0.64
1:G:217:THR:C	1:G:221:GLN:HG2	2.21	0.64
1:G:217:THR:HB	1:G:220:ASP:OD2	1.97	0.64
1:J:410:ASN:CG	4:W:334:GLU:C	2.65	0.64
3:R:45:GLU:O	3:R:49:ILE:HG13	1.97	0.64
1:A:218:LEU:CD2	1:A:222:ILE:HG12	2.28	0.64
1:A:721:LYS:HG2	1:A:736:GLN:CD	1.86	0.64
1:D:217:THR:HB	1:D:220:ASP:OD2	1.97	0.64
1:D:480:ILE:HG22	1:D:481:ASN:N	2.11	0.64
1:G:642:LYS:HA	4:V:21:PHE:O	1.97	0.64
1:J:49:MLY:HH23	1:J:80:MET:HE3	1.80	0.64
1:J:556:ASP:O	4:Y:48:GLY:N	2.29	0.64
1:J:732:ILE:HG21	1:J:747:LEU:HD11	0.73	0.64
1:J:757:GLN:CA	1:J:776:GLU:HG3	2.26	0.64
1:J:817:GLN:CD	2:K:127:ARG:HB2	2.21	0.64
1:P:466:GLY:HA2	1:P:484:ASN:ND2	2.11	0.64
1:P:612:GLN:HE22	1:P:627:GLY:N	1.95	0.64
4:2:148:THR:HG21	4:4:45:VAL:CG2	2.26	0.64
1:D:107:MLY:HB3	1:D:686:MET:CE	2.26	0.64
1:D:800:ARG:HB3	3:F:149:VAL:HG22	1.79	0.64
1:G:538:GLU:HA	4:V:349:LEU:HB3	1.79	0.64
1:J:94:MET:HE1	1:J:101:ALA:HB1	1.79	0.64
1:J:133:PRO:O	1:J:136:ASN:HB2	1.98	0.64
1:J:466:GLY:HA2	1:J:484:ASN:HD21	1.61	0.64
1:J:818:TYR:CZ	2:K:127:ARG:CZ	2.65	0.64
1:P:49:MLY:HH23	1:P:80:MET:HE3	1.80	0.64
1:P:84:MLY:CD	1:P:776:GLU:OE2	2.44	0.64
1:P:734:GLU:HG3	3:R:93:VAL:HG23	1.79	0.64
1:P:819:ASN:ND2	2:Q:92:ASP:CA	2.61	0.64
1:A:133:PRO:O	1:A:136:ASN:HB2	1.98	0.64
1:A:149:GLN:HG2	1:A:719:ASP:N	2.07	0.64
1:A:612:GLN:HE22	1:A:627:GLY:N	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:466:GLY:HA2	1:D:484:ASN:ND2	2.12	0.64
1:G:133:PRO:O	1:G:136:ASN:HB2	1.98	0.64
1:G:612:GLN:HE22	1:G:627:GLY:N	1.94	0.64
1:G:783:LEU:HD12	1:G:783:LEU:N	2.13	0.64
1:G:800:ARG:HH22	3:I:40:ASN:CG	2.06	0.64
1:G:822:SER:O	1:G:825:ASN:HB2	1.97	0.64
1:J:466:GLY:HA2	1:J:484:ASN:ND2	2.12	0.64
2:K:144:VAL:HA	2:K:153:ILE:HD11	1.80	0.64
1:P:642:LYS:CD	4:O:24:ASP:O	2.43	0.64
1:P:649:VAL:HG12	1:P:649:VAL:C	1.98	0.64
1:P:725:ARG:NE	1:P:737:PHE:HE1	1.95	0.64
1:P:822:SER:O	1:P:825:ASN:HB2	1.97	0.64
2:Q:140:PHE:HB3	2:Q:144:VAL:CG1	2.28	0.64
4:2:288:ASP:N	4:4:203:THR:CG2	2.56	0.64
4:X:287:ILE:CB	4:Z:201:VAL:HG23	2.27	0.64
1:A:202:SER:CA	1:A:207:LYS:HE3	2.27	0.64
1:A:479:CYS:HB3	1:A:653:PHE:CE2	2.32	0.64
1:A:642:LYS:CA	4:8:21:PHE:O	2.45	0.64
1:G:530:MET:CA	4:V:354:GLN:CB	2.75	0.64
1:J:479:CYS:HB3	1:J:653:PHE:CE2	2.33	0.64
1:J:538:GLU:HA	4:W:349:LEU:HB3	1.78	0.64
1:J:642:LYS:CD	4:W:340:TRP:CZ3	2.79	0.64
1:J:806:MET:O	1:J:809:ARG:HB2	1.98	0.64
1:J:813:ILE:HG22	2:K:128:PHE:HE1	1.62	0.64
1:P:218:LEU:CD2	1:P:222:ILE:HG12	2.28	0.64
1:P:732:ILE:CG2	1:P:747:LEU:HD11	1.26	0.64
1:P:793:ARG:HG2	3:R:87:PHE:CZ	2.33	0.64
4:1:167:GLU:OE1	4:3:44:MET:HA	1.98	0.64
4:8:190:MET:SD	4:8:209:VAL:HG11	2.38	0.64
1:A:538:GLU:HA	4:8:349:LEU:CG	2.27	0.64
1:A:806:MET:O	1:A:809:ARG:HB2	1.97	0.64
2:B:117:LEU:CG	2:B:147:ASN:CB	2.76	0.64
2:B:140:PHE:HB3	2:B:144:VAL:CG1	2.28	0.64
2:B:144:VAL:HA	2:B:153:ILE:HD11	1.80	0.64
1:D:49:MLY:HH23	1:D:80:MET:HE3	1.80	0.64
1:D:296:MLY:HH11	1:D:348:MLY:HH21	1.78	0.64
1:D:831:TRP:CE2	2:E:47:LEU:CD2	2.61	0.64
1:D:836:PHE:CZ	2:E:160:GLY:N	2.65	0.64
1:G:406:VAL:HG12	1:G:407:GLY:N	2.13	0.64
3:I:45:GLU:O	3:I:49:ILE:HG13	1.97	0.64
1:J:217:THR:HB	1:J:220:ASP:OD2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:642:LYS:CA	4:W:21:PHE:O	2.45	0.64
1:P:107:MLY:HB3	1:P:686:MET:CE	2.27	0.64
1:P:217:THR:HB	1:P:220:ASP:OD2	1.97	0.64
1:P:278:GLN:CG	1:P:317:GLU:HB2	2.27	0.64
1:P:792:ALA:HB2	3:R:42:THR:CG2	2.27	0.64
4:1:203:THR:H	4:Z:287:ILE:CD1	2.05	0.64
1:A:806:MET:HE1	3:C:17:PHE:CE2	2.33	0.64
1:G:218:LEU:CD2	1:G:222:ILE:HG12	2.28	0.64
1:G:642:LYS:CA	4:V:21:PHE:O	2.46	0.64
1:G:795:ARG:HB3	3:I:35:ARG:HH22	1.62	0.64
1:J:127:ASN:HD22	1:J:128:PRO:CD	2.11	0.64
1:J:296:MLY:HH11	1:J:348:MLY:HH21	1.78	0.64
1:J:612:GLN:HE22	1:J:627:GLY:N	1.95	0.64
1:P:642:LYS:CD	4:O:340:TRP:CZ3	2.79	0.64
1:P:792:ALA:H	3:R:42:THR:CG2	2.09	0.64
1:P:793:ARG:CG	3:R:87:PHE:CZ	2.81	0.64
4:O:190:MET:SD	4:O:209:VAL:HG11	2.38	0.64
4:X:291:LYS:HG3	4:Z:243:PRO:C	2.22	0.64
4:Y:190:MET:SD	4:Y:209:VAL:HG11	2.38	0.64
1:A:94:MET:O	1:A:713:SER:HB3	1.97	0.64
1:A:505:MLY:N	1:A:762:HIS:CD2	2.66	0.64
1:A:541:MET:O	4:8:143:TYR:OH	2.14	0.64
1:A:636:LYS:O	1:A:637:LYS:CB	2.45	0.64
1:D:537:GLU:HB3	1:D:648:THR:HB	1.80	0.64
1:G:541:MET:HG2	4:V:345:ILE:O	1.98	0.64
1:G:784:ALA:O	1:G:788:THR:CB	2.45	0.64
1:G:789:ALA:CB	3:I:81:GLN:CD	2.71	0.64
1:G:817:GLN:HB3	2:H:127:ARG:HD3	1.79	0.64
1:J:406:VAL:HG12	1:J:407:GLY:N	2.13	0.64
1:J:636:LYS:N	4:W:334:GLU:OE1	2.31	0.64
1:J:783:LEU:HD12	1:J:783:LEU:N	2.13	0.64
1:P:133:PRO:O	1:P:136:ASN:HB2	1.97	0.64
1:P:296:MLY:HH11	1:P:348:MLY:HH21	1.78	0.64
1:P:480:ILE:HG22	1:P:481:ASN:N	2.11	0.64
1:P:818:TYR:HB3	2:Q:90:GLY:CA	2.27	0.64
1:A:502:GLU:OE2	1:A:764:MLY:O	2.16	0.64
1:D:127:ASN:HD22	1:D:128:PRO:CD	2.11	0.64
2:E:140:PHE:HB3	2:E:144:VAL:CG1	2.28	0.64
1:G:806:MET:O	1:G:809:ARG:HB2	1.98	0.64
1:G:819:ASN:ND2	2:H:92:ASP:CA	2.59	0.64
2:H:140:PHE:HB3	2:H:144:VAL:CG1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:480:ILE:HG22	1:J:481:ASN:N	2.11	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:CE1	2.67	0.64
1:J:756:THR:HA	1:J:776:GLU:OE1	1.95	0.64
1:J:795:ARG:HE	3:L:116:GLU:CD	2.06	0.64
2:K:140:PHE:HB3	2:K:144:VAL:CG1	2.28	0.64
1:P:406:VAL:HG12	1:P:407:GLY:N	2.13	0.64
4:0:110:LEU:C	4:1:195:GLU:HG3	2.23	0.64
4:1:287:ILE:HG13	4:3:202:THR:CB	2.26	0.64
4:4:190:MET:SD	4:4:209:VAL:HG11	2.38	0.64
4:9:190:MET:SD	4:9:209:VAL:HG11	2.38	0.64
1:A:553:MLY:CE	4:V:45:VAL:CA	2.49	0.63
1:A:792:ALA:CB	3:C:42:THR:CG2	2.55	0.63
1:D:724:TYR:HB3	1:D:727:LEU:HD12	1.80	0.63
2:E:146:GLY:O	2:E:147:ASN:CB	2.46	0.63
1:G:94:MET:HE1	1:G:101:ALA:HB1	1.79	0.63
1:G:479:CYS:HB3	1:G:653:PHE:CE2	2.32	0.63
1:G:577:ALA:O	1:G:578:HIS:CD2	2.51	0.63
1:G:792:ALA:HB1	3:I:42:THR:N	2.14	0.63
1:J:577:ALA:O	1:J:578:HIS:CD2	2.51	0.63
1:J:801:VAL:HG21	3:L:126:LEU:HD21	1.78	0.63
3:L:49:ILE:HA	3:L:52:ASN:ND2	2.06	0.63
1:P:127:ASN:HD22	1:P:128:PRO:CD	2.11	0.63
1:P:479:CYS:HB3	1:P:653:PHE:CE2	2.33	0.63
1:P:642:LYS:CA	4:0:21:PHE:O	2.45	0.63
1:P:724:TYR:HB3	1:P:727:LEU:HD12	1.80	0.63
1:P:732:ILE:HG21	1:P:747:LEU:HD11	0.73	0.63
2:Q:132:GLU:O	2:Q:136:MET:HG2	1.99	0.63
2:Q:146:GLY:O	2:Q:147:ASN:CB	2.46	0.63
4:2:190:MET:SD	4:2:209:VAL:HG11	2.38	0.63
1:A:813:ILE:CG2	2:B:127:ARG:HB2	2.28	0.63
1:A:820:VAL:HG11	2:B:136:MET:HE1	1.78	0.63
1:D:783:LEU:HD12	1:D:783:LEU:N	2.13	0.63
2:H:117:LEU:HD11	2:H:147:ASN:HB3	1.76	0.63
1:J:278:GLN:CG	1:J:317:GLU:HB2	2.27	0.63
1:J:795:ARG:HH21	3:L:116:GLU:CD	2.06	0.63
1:J:819:ASN:OD1	2:K:91:ALA:C	2.40	0.63
4:2:287:ILE:CB	4:4:204:ALA:H	2.11	0.63
4:W:190:MET:SD	4:W:209:VAL:HG11	2.38	0.63
1:A:93:MET:HE2	1:A:715:VAL:HG13	1.74	0.63
1:A:93:MET:C	1:A:713:SER:HB3	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:MET:HA	4:8:354:GLN:CB	2.29	0.63
1:D:218:LEU:CD2	1:D:222:ILE:HG12	2.28	0.63
2:E:117:LEU:CG	2:E:147:ASN:CB	2.76	0.63
2:E:132:GLU:O	2:E:136:MET:HG2	1.99	0.63
1:G:215:GLN:CA	1:G:340:ILE:CG2	2.63	0.63
1:G:834:LEU:CD2	2:H:34:ILE:HD11	2.28	0.63
1:P:84:MLY:HD2	1:P:724:TYR:OH	1.97	0.63
4:0:257:CYS:HB3	4:0:258:PRO:HD3	1.81	0.63
4:Y:257:CYS:HB3	4:Y:258:PRO:HD3	1.81	0.63
1:A:410:ASN:CG	4:8:334:GLU:C	2.65	0.63
1:A:783:LEU:HD12	1:A:783:LEU:N	2.13	0.63
2:B:121:LEU:HA	2:B:128:PHE:CG	2.34	0.63
1:D:538:GLU:HA	4:9:349:LEU:HB3	1.78	0.63
1:D:577:ALA:O	1:D:578:HIS:CD2	2.51	0.63
1:J:537:GLU:HB3	1:J:648:THR:HB	1.80	0.63
1:J:541:MET:HG2	4:W:345:ILE:O	1.98	0.63
1:P:577:ALA:O	1:P:578:HIS:CD2	2.51	0.63
1:P:636:LYS:N	4:0:334:GLU:OE1	2.31	0.63
1:P:724:TYR:HD1	1:P:727:LEU:HD11	1.64	0.63
1:P:786:ILE:HA	1:P:788:THR:H	1.63	0.63
4:1:202:THR:OG1	4:Z:287:ILE:CG2	2.42	0.63
4:W:257:CYS:HB3	4:W:258:PRO:HD3	1.81	0.63
4:X:324:THR:O	4:Z:245:GLY:HA3	1.98	0.63
1:A:636:LYS:N	4:8:334:GLU:OE1	2.31	0.63
1:A:800:ARG:CD	3:C:149:VAL:C	2.70	0.63
2:B:146:GLY:O	2:B:147:ASN:CB	2.46	0.63
1:D:133:PRO:O	1:D:136:ASN:HB2	1.98	0.63
1:D:278:GLN:CG	1:D:317:GLU:HB2	2.27	0.63
1:D:538:GLU:HA	4:9:349:LEU:CG	2.27	0.63
1:D:724:TYR:HD1	1:D:727:LEU:HD11	1.64	0.63
1:G:537:GLU:HB3	1:G:648:THR:HB	1.81	0.63
2:H:121:LEU:HA	2:H:128:PHE:CG	2.34	0.63
3:I:4:LYS:N	3:I:5:ALA:O	2.16	0.63
1:J:541:MET:CA	4:W:143:TYR:OH	2.46	0.63
1:J:819:ASN:OD1	2:K:92:ASP:HB2	1.98	0.63
1:P:732:ILE:HG22	1:P:747:LEU:CD1	1.55	0.63
1:P:771:LEU:O	1:P:774:LEU:N	2.32	0.63
4:2:257:CYS:HB3	4:2:258:PRO:HD3	1.81	0.63
4:Z:190:MET:SD	4:Z:209:VAL:HG11	2.38	0.63
1:A:127:ASN:HD22	1:A:128:PRO:CD	2.11	0.63
1:A:577:ALA:O	1:A:578:HIS:CD2	2.52	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:724:TYR:HD1	1:A:727:LEU:HD11	1.64	0.63
1:D:806:MET:O	1:D:809:ARG:HB2	1.98	0.63
1:G:724:TYR:HB3	1:G:727:LEU:HD12	1.79	0.63
1:G:725:ARG:NE	1:G:737:PHE:CE1	2.67	0.63
1:J:141:LEU:H	1:J:141:LEU:HD12	1.64	0.63
1:J:795:ARG:HD2	3:L:43:ASN:N	2.13	0.63
1:J:836:PHE:CE2	2:K:160:GLY:HA3	2.34	0.63
1:P:94:MET:HE1	1:P:101:ALA:HB1	1.79	0.63
1:P:141:LEU:HD12	1:P:141:LEU:H	1.64	0.63
1:P:410:ASN:CG	4:O:334:GLU:C	2.65	0.63
1:P:795:ARG:C	3:R:35:ARG:CZ	2.71	0.63
1:P:799:MET:CB	3:R:35:ARG:CD	2.73	0.63
1:P:831:TRP:HH2	2:Q:47:LEU:HD21	1.21	0.63
3:R:49:ILE:HA	3:R:52:ASN:ND2	2.06	0.63
1:A:542:PHE:CZ	1:A:553:MLY:HH11	2.34	0.63
1:A:831:TRP:CD2	2:B:51:PHE:CE1	2.84	0.63
1:G:107:MLY:HB3	1:G:686:MET:CE	2.27	0.63
1:G:541:MET:CA	4:V:143:TYR:OH	2.47	0.63
1:P:576:GLU:CG	1:P:577:ALA:N	2.43	0.63
1:P:793:ARG:NH2	3:R:87:PHE:HE1	1.96	0.63
2:Q:144:VAL:HA	2:Q:153:ILE:HD11	1.80	0.63
4:7:257:CYS:HB3	4:7:258:PRO:HD3	1.81	0.63
4:9:257:CYS:HB3	4:9:258:PRO:HD3	1.81	0.63
1:D:411:GLU:N	4:9:333:PRO:HB2	2.10	0.63
1:D:541:MET:HG2	4:9:345:ILE:O	1.98	0.63
1:G:636:LYS:O	1:G:637:LYS:CB	2.45	0.63
1:G:636:LYS:N	4:V:334:GLU:OE1	2.31	0.63
2:H:144:VAL:HA	2:H:153:ILE:HD11	1.80	0.63
2:K:112:ILE:C	2:K:147:ASN:O	2.42	0.63
2:K:132:GLU:O	2:K:136:MET:HG2	1.99	0.63
4:5:257:CYS:HB3	4:5:258:PRO:HD3	1.81	0.63
4:X:324:THR:OG1	4:Z:246:GLN:HA	1.98	0.63
1:A:797:PHE:CD2	3:C:146:ILE:HG23	2.34	0.63
1:D:251:ARG:HB2	1:D:264:ASP:CB	2.29	0.63
1:J:218:LEU:CD2	1:J:222:ILE:HG12	2.28	0.63
1:J:724:TYR:HD1	1:J:727:LEU:HD11	1.64	0.63
2:Q:121:LEU:HA	2:Q:128:PHE:CG	2.34	0.63
4:4:257:CYS:HB3	4:4:258:PRO:HD3	1.81	0.63
4:5:190:MET:SD	4:5:209:VAL:HG11	2.38	0.63
4:X:190:MET:SD	4:X:209:VAL:HG11	2.38	0.63
1:A:537:GLU:HB3	1:A:648:THR:HB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:507:GLY:O	1:D:762:HIS:N	2.30	0.62
1:D:551:MLY:C	4:W:46:GLY:O	2.47	0.62
1:D:636:LYS:N	4:9:334:GLU:OE1	2.31	0.62
1:D:642:LYS:CA	4:9:21:PHE:O	2.46	0.62
1:D:795:ARG:NH2	3:F:116:GLU:HG2	2.11	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:792:ALA:HB1	3:I:42:THR:CA	2.28	0.62
1:G:796:GLY:CA	3:I:35:ARG:HD3	2.16	0.62
1:G:829:TRP:CH2	2:H:87:LYS:CE	2.82	0.62
2:H:144:VAL:CG1	2:H:153:ILE:HD13	2.19	0.62
1:P:783:LEU:HD12	1:P:783:LEU:N	2.13	0.62
4:7:190:MET:SD	4:7:209:VAL:HG11	2.38	0.62
1:A:753:VAL:HG11	1:A:775:LEU:HD23	1.81	0.62
1:D:795:ARG:CB	3:F:35:ARG:CZ	2.50	0.62
2:E:117:LEU:HD11	2:E:147:ASN:HB3	1.76	0.62
1:J:107:MLY:HB3	1:J:686:MET:CE	2.27	0.62
1:J:534:SER:C	4:W:351:THR:CA	2.47	0.62
2:K:146:GLY:O	2:K:147:ASN:CB	2.46	0.62
1:P:278:GLN:HG3	1:P:318:GLY:N	2.15	0.62
2:Q:111:SER:OG	2:Q:148:VAL:CG1	2.47	0.62
2:Q:117:LEU:CB	2:Q:147:ASN:ND2	2.35	0.62
2:Q:117:LEU:HD11	2:Q:147:ASN:HB3	1.76	0.62
3:R:24:LYS:HB3	3:R:63:ILE:H	1.64	0.62
4:V:190:MET:SD	4:V:209:VAL:HG11	2.38	0.62
1:A:149:GLN:HG2	1:A:719:ASP:HB2	1.81	0.62
1:A:274:ARG:HB2	1:A:285:TYR:CE2	2.34	0.62
1:A:302:MET:HG2	1:A:303:LEU:CD1	2.29	0.62
1:A:406:VAL:HG12	1:A:407:GLY:N	2.13	0.62
1:A:541:MET:HG2	4:8:345:ILE:O	1.98	0.62
1:A:542:PHE:N	4:8:143:TYR:OH	2.33	0.62
1:A:551:MLY:C	4:V:46:GLY:O	2.47	0.62
1:A:578:HIS:CB	1:A:592:ILE:HD12	2.30	0.62
1:D:725:ARG:NE	1:D:737:PHE:CE1	2.67	0.62
1:G:141:LEU:H	1:G:141:LEU:HD12	1.64	0.62
1:G:544:LYS:HB2	4:V:147:ARG:HA	1.81	0.62
1:G:724:TYR:HD1	1:G:727:LEU:HD11	1.64	0.62
1:J:278:GLN:HG3	1:J:318:GLY:N	2.15	0.62
1:J:530:MET:CG	4:W:354:GLN:CG	2.72	0.62
1:P:541:MET:HG2	4:0:345:ILE:O	1.98	0.62
1:P:541:MET:CA	4:0:143:TYR:OH	2.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:578:HIS:CB	1:P:592:ILE:HD12	2.30	0.62
1:P:755:HIS:HA	1:P:758:TYR:HE1	1.64	0.62
4:8:361:GLU:HB3	4:8:369:ILE:HG12	1.82	0.62
1:A:541:MET:CA	4:8:143:TYR:OH	2.47	0.62
1:A:544:LYS:HB2	4:8:147:ARG:HA	1.80	0.62
1:A:553:MLY:CG	4:V:47:MET:N	2.54	0.62
1:A:724:TYR:HB3	1:A:727:LEU:HD12	1.79	0.62
1:D:580:SER:HA	1:D:588:VAL:O	2.00	0.62
1:D:712:PRO:HD2	1:D:771:LEU:HD13	1.82	0.62
1:G:49:MLY:HH23	1:G:80:MET:HE3	1.80	0.62
1:G:97:LEU:HD21	1:G:712:PRO:CB	2.24	0.62
1:G:202:SER:CA	1:G:207:LYS:HE3	2.28	0.62
1:G:542:PHE:N	4:V:143:TYR:OH	2.33	0.62
1:G:752:ASP:O	1:G:780:ASP:CG	2.41	0.62
1:G:795:ARG:HB3	3:I:35:ARG:HH12	1.61	0.62
1:G:796:GLY:N	3:I:35:ARG:CZ	2.61	0.62
1:G:834:LEU:HD12	2:H:51:PHE:HE1	1.65	0.62
1:J:580:SER:HA	1:J:588:VAL:O	2.00	0.62
1:J:724:TYR:HB3	1:J:727:LEU:HD12	1.80	0.62
1:J:771:LEU:O	1:J:774:LEU:N	2.32	0.62
2:K:144:VAL:CG1	2:K:153:ILE:HD13	2.20	0.62
1:P:251:ARG:HB2	1:P:264:ASP:CB	2.29	0.62
1:P:580:SER:HA	1:P:588:VAL:O	2.00	0.62
4:1:190:MET:SD	4:1:209:VAL:HG11	2.38	0.62
4:1:288:ASP:CB	4:3:203:THR:HG21	2.29	0.62
4:8:257:CYS:HB3	4:8:258:PRO:HD3	1.81	0.62
4:V:361:GLU:HB3	4:V:369:ILE:HG12	1.82	0.62
1:A:161:ASN:HA	1:A:164:GLN:HE21	1.63	0.62
1:A:251:ARG:HB2	1:A:264:ASP:CB	2.29	0.62
1:A:530:MET:HE1	4:8:355:MET:SD	2.39	0.62
1:A:771:LEU:O	1:A:774:LEU:N	2.32	0.62
1:D:210:GLN:O	1:D:211:SER:OG	2.15	0.62
1:D:542:PHE:CZ	1:D:553:MLY:HH11	2.34	0.62
1:D:771:LEU:O	1:D:774:LEU:N	2.32	0.62
2:E:112:ILE:C	2:E:147:ASN:O	2.42	0.62
2:E:144:VAL:HA	2:E:153:ILE:HD11	1.80	0.62
1:G:788:THR:O	3:I:42:THR:CG2	2.47	0.62
2:H:146:GLY:O	2:H:147:ASN:CB	2.46	0.62
1:J:251:ARG:HB2	1:J:264:ASP:CB	2.29	0.62
1:J:538:GLU:HA	4:W:349:LEU:CG	2.28	0.62
1:J:798:LEU:HD12	3:L:126:LEU:HD11	1.73	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:813:ILE:O	1:J:817:GLN:N	2.30	0.62
2:K:121:LEU:HA	2:K:128:PHE:CG	2.34	0.62
1:P:725:ARG:NE	1:P:737:PHE:CE1	2.67	0.62
4:Y:361:GLU:HB3	4:Y:369:ILE:HG12	1.82	0.62
1:A:505:MLY:HB2	1:A:761:GLY:CA	2.27	0.62
1:A:520:ALA:O	1:A:524:GLU:HG2	2.00	0.62
1:D:541:MET:CA	4:9:143:TYR:OH	2.47	0.62
2:E:114:LYS:HG3	2:E:146:GLY:HA2	1.82	0.62
1:G:127:ASN:HD22	1:G:128:PRO:CD	2.11	0.62
1:G:503:TYR:HE1	1:G:711:PHE:CE2	2.02	0.62
1:G:542:PHE:CZ	1:G:553:MLY:HH11	2.34	0.62
1:G:799:MET:SD	3:I:32:ASP:OD2	2.58	0.62
1:G:817:GLN:HG2	2:H:127:ARG:HB3	1.81	0.62
1:J:93:MET:HG2	1:J:715:VAL:HA	1.81	0.62
1:J:732:ILE:HG22	1:J:747:LEU:CD1	1.55	0.62
1:J:797:PHE:CE2	3:L:126:LEU:CD2	2.79	0.62
2:K:111:SER:OG	2:K:148:VAL:CG1	2.48	0.62
1:P:792:ALA:CB	3:R:42:THR:HG23	2.28	0.62
4:0:288:ASP:HB3	4:2:63:GLY:H	1.62	0.62
4:0:361:GLU:HB3	4:0:369:ILE:HG12	1.82	0.62
4:7:361:GLU:HB3	4:7:369:ILE:HG12	1.82	0.62
4:9:361:GLU:HB3	4:9:369:ILE:HG12	1.82	0.62
4:W:361:GLU:HB3	4:W:369:ILE:HG12	1.82	0.62
4:X:361:GLU:HB3	4:X:369:ILE:HG12	1.82	0.62
1:A:107:MLY:HB3	1:A:686:MET:CE	2.27	0.62
1:A:580:SER:HA	1:A:588:VAL:O	2.00	0.62
1:A:725:ARG:NE	1:A:737:PHE:CE1	2.67	0.62
2:B:132:GLU:O	2:B:136:MET:HG2	1.99	0.62
1:D:530:MET:HE1	4:9:355:MET:SD	2.39	0.62
1:D:543:PRO:HG2	4:9:143:TYR:O	1.98	0.62
1:D:578:HIS:CB	1:D:592:ILE:HD12	2.30	0.62
1:D:725:ARG:C	1:D:782:MLY:CH2	2.71	0.62
1:D:819:ASN:OD1	2:E:92:ASP:N	2.18	0.62
2:E:121:LEU:HA	2:E:128:PHE:CG	2.34	0.62
2:E:150:TYR:C	2:E:151:LYS:CG	2.48	0.62
1:G:154:HIS:CE1	1:G:156:PHE:CD2	2.88	0.62
1:G:278:GLN:HG3	1:G:318:GLY:N	2.14	0.62
1:G:543:PRO:HG2	4:V:143:TYR:O	1.98	0.62
1:G:771:LEU:O	1:G:774:LEU:N	2.32	0.62
2:H:132:GLU:O	2:H:136:MET:HG2	1.99	0.62
1:J:161:ASN:HA	1:J:164:GLN:HE21	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:542:PHE:CZ	1:J:553:MLY:HH11	2.34	0.62
1:J:544:LYS:HB2	4:W:147:ARG:HA	1.80	0.62
1:P:173:GLN:C	1:P:667:THR:HG23	2.25	0.62
1:P:537:GLU:HB3	1:P:648:THR:HB	1.80	0.62
1:P:538:GLU:HA	4:0:349:LEU:CG	2.28	0.62
1:P:542:PHE:CB	4:0:143:TYR:HE1	2.13	0.62
4:2:324:THR:CG2	4:4:243:PRO:C	2.57	0.62
4:2:361:GLU:HB3	4:2:369:ILE:HG12	1.82	0.62
1:A:49:MLY:HH23	1:A:80:MET:HE3	1.80	0.62
1:A:278:GLN:CG	1:A:317:GLU:HB2	2.27	0.62
1:A:543:PRO:HG2	4:8:143:TYR:O	1.98	0.62
1:A:839:MLY:CH1	2:B:159:HIS:HD2	2.12	0.62
1:D:542:PHE:CB	4:9:143:TYR:HE1	2.13	0.62
1:D:725:ARG:O	1:D:782:MLY:HH22	2.00	0.62
1:G:98:HIS:HB3	1:G:100:PRO:CD	2.25	0.62
1:G:302:MET:HG2	1:G:303:LEU:CD1	2.30	0.62
1:G:557:GLU:HB2	4:X:47:MET:N	2.11	0.62
1:G:578:HIS:CB	1:G:592:ILE:HD12	2.30	0.62
1:G:599:ASN:CG	1:G:649:VAL:HB	2.25	0.62
1:G:797:PHE:HE2	3:I:126:LEU:CG	2.12	0.62
1:J:642:LYS:CD	4:W:24:ASP:O	2.43	0.62
1:J:791:GLN:NE2	3:L:116:GLU:N	2.47	0.62
1:P:544:LYS:HB2	4:0:147:ARG:HA	1.80	0.62
4:3:257:CYS:HB3	4:3:258:PRO:HD3	1.81	0.62
4:V:257:CYS:HB3	4:V:258:PRO:HD3	1.81	0.62
1:A:98:HIS:HB3	1:A:100:PRO:CD	2.25	0.62
1:A:643:GLY:O	1:A:644:SER:CB	2.48	0.62
1:D:141:LEU:H	1:D:141:LEU:HD12	1.64	0.62
1:D:755:HIS:HA	1:D:758:TYR:HE1	1.65	0.62
1:D:798:LEU:CD1	3:F:126:LEU:HD21	2.30	0.62
1:G:580:SER:HA	1:G:588:VAL:O	2.00	0.62
1:G:834:LEU:CD2	2:H:34:ILE:CD1	2.78	0.62
2:H:111:SER:OG	2:H:148:VAL:CG1	2.47	0.62
1:P:161:ASN:HA	1:P:164:GLN:HE21	1.63	0.62
1:P:708:ARG:HA	1:P:712:PRO:CG	2.25	0.62
4:2:322:PRO:CB	4:4:244:ASP:HB2	2.26	0.62
4:3:190:MET:SD	4:3:209:VAL:HG11	2.38	0.62
1:A:173:GLN:C	1:A:667:THR:HG23	2.25	0.62
1:A:553:MLY:O	4:V:48:GLY:HA2	1.99	0.62
1:A:579:PHE:CE1	1:A:581:LEU:HD13	2.35	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:406:VAL:HG12	1:D:407:GLY:N	2.13	0.62
1:D:410:ASN:CG	4:9:334:GLU:C	2.65	0.62
1:D:520:ALA:O	1:D:524:GLU:HG2	2.00	0.62
1:D:553:MLY:O	4:W:48:GLY:HA2	1.99	0.62
1:D:712:PRO:CG	1:D:771:LEU:HB2	2.17	0.62
1:J:557:GLU:HG3	1:J:557:GLU:O	2.00	0.62
1:P:274:ARG:HB2	1:P:285:TYR:CE2	2.34	0.62
4:1:257:CYS:HB3	4:1:258:PRO:HD3	1.81	0.62
4:3:361:GLU:HB3	4:3:369:ILE:HG12	1.82	0.62
4:X:257:CYS:HB3	4:X:258:PRO:HD3	1.81	0.62
1:A:81:ASN:OD1	1:A:96:HIS:HB2	2.00	0.61
1:A:278:GLN:HG3	1:A:318:GLY:N	2.15	0.61
1:A:599:ASN:CG	1:A:649:VAL:HB	2.25	0.61
1:A:736:GLN:HA	1:A:743:ALA:HB1	1.27	0.61
1:A:768:MLY:HB3	1:A:771:LEU:HB2	0.75	0.61
2:B:112:ILE:C	2:B:147:ASN:O	2.42	0.61
1:D:161:ASN:HA	1:D:164:GLN:HE21	1.64	0.61
3:F:49:ILE:HA	3:F:52:ASN:ND2	2.05	0.61
1:G:173:GLN:C	1:G:667:THR:HG23	2.25	0.61
1:G:278:GLN:CG	1:G:317:GLU:HB2	2.27	0.61
1:G:834:LEU:CD1	2:H:51:PHE:HE1	2.13	0.61
2:H:112:ILE:C	2:H:147:ASN:O	2.42	0.61
1:J:831:TRP:CZ3	2:K:34:ILE:HD13	2.33	0.61
1:P:84:MLY:HE2	1:P:723:ARG:HD2	1.80	0.61
1:A:686:MET:HG3	1:A:691:VAL:HG21	1.82	0.61
2:B:111:SER:OG	2:B:148:VAL:CG1	2.47	0.61
2:B:150:TYR:C	2:B:151:LYS:CG	2.48	0.61
1:D:813:ILE:CG2	2:E:128:PHE:HE1	2.03	0.61
2:E:34:ILE:O	2:E:46:ASP:HB3	2.01	0.61
1:G:797:PHE:HE2	3:I:126:LEU:CD2	2.03	0.61
3:I:24:LYS:HB3	3:I:63:ILE:H	1.64	0.61
1:J:173:GLN:C	1:J:667:THR:HG23	2.25	0.61
3:L:50:LEU:O	3:L:53:PRO:HD2	2.00	0.61
1:P:81:ASN:OD1	1:P:96:HIS:HB2	2.00	0.61
1:P:530:MET:HA	4:0:354:GLN:CD	2.11	0.61
1:P:818:TYR:HE1	2:Q:127:ARG:NH2	1.88	0.61
1:P:836:PHE:CE1	2:Q:160:GLY:N	2.62	0.61
4:1:203:THR:N	4:Z:287:ILE:CD1	2.62	0.61
4:5:361:GLU:HB3	4:5:369:ILE:HG12	1.82	0.61
4:X:287:ILE:CG1	4:Z:201:VAL:CB	2.75	0.61
4:Z:257:CYS:HB3	4:Z:258:PRO:HD3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:361:GLU:HB3	4:Z:369:ILE:HG12	1.82	0.61
1:A:154:HIS:CE1	1:A:156:PHE:CD2	2.88	0.61
1:D:173:GLN:C	1:D:667:THR:HG23	2.25	0.61
1:D:274:ARG:HB2	1:D:285:TYR:CE2	2.34	0.61
1:D:278:GLN:HG3	1:D:318:GLY:N	2.15	0.61
1:D:732:ILE:HG21	1:D:782:MLY:CH2	2.24	0.61
1:D:798:LEU:HD12	3:F:126:LEU:HD21	1.82	0.61
2:E:111:SER:OG	2:E:148:VAL:CG1	2.48	0.61
1:G:161:ASN:HA	1:G:164:GLN:HE21	1.63	0.61
1:G:530:MET:HE1	4:V:355:MET:SD	2.41	0.61
3:I:50:LEU:O	3:I:53:PRO:HD2	2.00	0.61
1:J:542:PHE:CB	4:W:143:TYR:HE1	2.13	0.61
1:J:553:MLY:HE3	4:Y:45:VAL:HG12	1.80	0.61
2:K:114:LYS:HG3	2:K:146:GLY:HA2	1.82	0.61
1:P:154:HIS:CE1	1:P:156:PHE:CD2	2.88	0.61
1:P:804:ARG:CD	1:P:808:GLU:OE2	2.48	0.61
1:A:93:MET:CE	1:A:715:VAL:CA	2.43	0.61
1:A:141:LEU:H	1:A:141:LEU:HD12	1.64	0.61
1:A:541:MET:SD	4:8:346:LEU:O	2.48	0.61
1:A:639:GLY:N	4:8:344:SER:C	2.54	0.61
1:D:599:ASN:CG	1:D:649:VAL:HB	2.25	0.61
3:F:63:ILE:HG22	3:F:64:THR:O	2.01	0.61
1:G:81:ASN:OD1	1:G:96:HIS:HB2	2.00	0.61
1:J:274:ARG:HB2	1:J:285:TYR:CE2	2.34	0.61
1:J:411:GLU:N	4:W:333:PRO:HB2	2.11	0.61
1:J:578:HIS:CB	1:J:592:ILE:HD12	2.30	0.61
1:P:302:MET:HG2	1:P:303:LEU:CD1	2.30	0.61
1:P:769:ALA:O	1:P:771:LEU:N	2.34	0.61
4:1:202:THR:CB	4:Z:287:ILE:CG1	2.79	0.61
4:7:190:MET:HE1	4:7:206:ARG:HA	1.83	0.61
4:V:286:ASP:OD2	4:X:203:THR:CG2	2.47	0.61
1:A:752:ASP:O	1:A:778:MET:HB3	1.99	0.61
1:G:274:ARG:HB2	1:G:285:TYR:CE2	2.34	0.61
1:G:553:MLY:HB2	4:X:46:GLY:HA3	1.83	0.61
1:G:579:PHE:CE1	1:G:581:LEU:HD13	2.35	0.61
1:G:813:ILE:HG21	2:H:128:PHE:CE1	2.34	0.61
2:H:114:LYS:HG3	2:H:146:GLY:HA2	1.82	0.61
1:J:538:GLU:CG	4:W:351:THR:C	2.73	0.61
1:J:623:PHE:CG	1:J:623:PHE:HA	2.35	0.61
1:J:756:THR:HG21	1:J:776:GLU:HA	1.62	0.61
1:P:803:TYR:CD2	1:P:807:VAL:HG21	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:817:GLN:OE1	2:Q:127:ARG:CD	2.40	0.61
4:0:245:GLY:H	4:Y:291:LYS:CB	2.10	0.61
4:1:190:MET:HE1	4:1:206:ARG:HA	1.83	0.61
4:5:190:MET:HE1	4:5:206:ARG:HA	1.83	0.61
4:W:190:MET:HE1	4:W:206:ARG:HA	1.83	0.61
4:Y:190:MET:HE1	4:Y:206:ARG:HA	1.83	0.61
1:A:542:PHE:CB	4:8:143:TYR:HE1	2.12	0.61
1:D:544:LYS:HB2	4:9:147:ARG:HA	1.80	0.61
1:D:686:MET:HG3	1:D:691:VAL:HG21	1.83	0.61
1:G:643:GLY:O	1:G:644:SER:CB	2.48	0.61
1:G:819:ASN:CB	2:H:90:GLY:O	2.45	0.61
3:I:52:ASN:N	3:I:53:PRO:HD2	2.16	0.61
1:J:202:SER:HA	1:J:207:LYS:HE3	1.72	0.61
1:J:579:PHE:CE1	1:J:581:LEU:HD13	2.35	0.61
1:P:537:GLU:HG3	4:0:350:SER:O	1.78	0.61
1:P:542:PHE:CZ	1:P:553:MLY:HH11	2.34	0.61
3:R:52:ASN:HB2	3:R:53:PRO:CD	2.28	0.61
4:0:190:MET:HE1	4:0:206:ARG:HA	1.83	0.61
4:1:203:THR:CG2	4:Z:288:ASP:OD2	2.44	0.61
4:8:190:MET:HE1	4:8:206:ARG:HA	1.83	0.61
4:9:190:MET:HE1	4:9:206:ARG:HA	1.83	0.61
4:X:190:MET:HE1	4:X:206:ARG:HA	1.83	0.61
1:A:99:GLU:OE2	1:A:696:ARG:NH2	2.30	0.61
1:D:557:GLU:HG3	1:D:557:GLU:O	2.00	0.61
3:F:50:LEU:O	3:F:53:PRO:HD2	2.00	0.61
1:G:210:GLN:O	1:G:211:SER:OG	2.15	0.61
1:G:503:TYR:CZ	1:G:711:PHE:HE2	2.12	0.61
1:G:524:GLU:O	1:G:528:MLY:HB3	2.01	0.61
1:G:567:LYS:HZ3	4:X:92:ASN:ND2	1.89	0.61
1:J:302:MET:HG2	1:J:303:LEU:CD1	2.30	0.61
1:J:543:PRO:HG2	4:W:143:TYR:O	1.98	0.61
4:Z:190:MET:HE1	4:Z:206:ARG:HA	1.83	0.61
1:A:502:GLU:O	1:A:761:GLY:HA2	2.01	0.61
1:A:809:ARG:NH1	2:B:124:GLY:CA	2.64	0.61
3:C:24:LYS:HB3	3:C:63:ILE:H	1.64	0.61
1:D:831:TRP:CD2	2:E:51:PHE:CZ	2.88	0.61
2:E:144:VAL:CG1	2:E:153:ILE:HD13	2.19	0.61
1:G:642:LYS:CA	4:V:22:ALA:C	2.70	0.61
3:I:63:ILE:HG22	3:I:64:THR:O	2.01	0.61
1:J:530:MET:HA	4:W:354:GLN:CB	2.28	0.61
1:J:530:MET:HE1	4:W:355:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:643:GLY:O	1:J:644:SER:CB	2.49	0.61
1:P:40:VAL:HG22	1:P:41:VAL:N	2.16	0.61
1:P:831:TRP:HZ3	2:Q:34:ILE:CD1	2.01	0.61
2:Q:114:LYS:HG3	2:Q:146:GLY:HA2	1.82	0.61
4:V:190:MET:HE1	4:V:206:ARG:HA	1.83	0.61
1:A:800:ARG:HD2	3:C:149:VAL:O	2.00	0.61
1:D:81:ASN:OD1	1:D:96:HIS:HB2	2.00	0.61
1:D:154:HIS:CE1	1:D:156:PHE:CD2	2.88	0.61
1:D:578:HIS:CD2	1:D:591:ASN:HA	2.31	0.61
1:D:579:PHE:CE1	1:D:581:LEU:HD13	2.35	0.61
1:D:623:PHE:CG	1:D:623:PHE:HA	2.36	0.61
1:D:643:GLY:O	1:D:644:SER:CB	2.48	0.61
3:F:52:ASN:N	3:F:53:PRO:HD2	2.15	0.61
1:G:520:ALA:O	1:G:524:GLU:HG2	2.00	0.61
1:G:686:MET:HG3	1:G:691:VAL:HG21	1.83	0.61
1:J:524:GLU:O	1:J:528:MLY:HB3	2.01	0.61
1:J:686:MET:HG3	1:J:691:VAL:HG21	1.83	0.61
1:P:38:VAL:HB	1:P:52:ILE:HD11	1.83	0.61
1:P:524:GLU:O	1:P:528:MLY:HB3	2.01	0.61
1:P:686:MET:HG3	1:P:691:VAL:HG21	1.83	0.61
1:P:735:GLY:O	1:P:743:ALA:HA	1.94	0.61
4:3:190:MET:HE1	4:3:206:ARG:HA	1.83	0.61
4:4:223:PHE:HD2	4:4:312:ARG:NH2	1.99	0.61
4:4:361:GLU:HB3	4:4:369:ILE:HG12	1.82	0.61
4:X:291:LYS:HG3	4:Z:244:ASP:N	1.86	0.61
1:D:538:GLU:CG	4:9:351:THR:C	2.73	0.61
1:G:149:GLN:HG2	1:G:716:LEU:HD11	1.83	0.61
1:G:755:HIS:HA	1:G:758:TYR:HE1	1.64	0.61
1:G:795:ARG:HE	3:I:116:GLU:HB3	0.51	0.61
1:G:834:LEU:CD2	2:H:34:ILE:HG12	2.31	0.61
1:J:154:HIS:CE1	1:J:156:PHE:CD2	2.88	0.61
1:J:202:SER:CA	1:J:207:LYS:HE3	2.27	0.61
1:J:520:ALA:O	1:J:524:GLU:HG2	2.00	0.61
1:P:520:ALA:O	1:P:524:GLU:HG2	2.00	0.61
1:P:543:PRO:HG2	4:0:143:TYR:O	1.98	0.61
1:P:579:PHE:CE1	1:P:581:LEU:HD13	2.35	0.61
3:R:63:ILE:HG22	3:R:64:THR:O	2.01	0.61
4:5:223:PHE:HD2	4:5:312:ARG:NH2	1.99	0.61
4:8:223:PHE:HD2	4:8:312:ARG:NH2	1.99	0.61
4:9:223:PHE:HD2	4:9:312:ARG:NH2	1.99	0.61
1:A:127:ASN:ND2	1:A:128:PRO:HD2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:PHE:CD1	1:A:195:TYR:CD1	2.89	0.60
1:D:507:GLY:HA2	1:D:762:HIS:CE1	2.36	0.60
1:D:530:MET:CG	4:9:354:GLN:HG3	2.30	0.60
1:D:822:SER:CB	2:E:88:LEU:HD23	2.14	0.60
1:G:124:VAL:CG1	1:G:675:ILE:HD13	2.31	0.60
1:J:81:ASN:OD1	1:J:96:HIS:HB2	2.00	0.60
1:J:95:THR:CA	1:J:713:SER:CB	2.76	0.60
1:J:599:ASN:CG	1:J:649:VAL:HB	2.25	0.60
1:J:796:GLY:CA	3:L:35:ARG:NE	2.63	0.60
3:L:24:LYS:HB3	3:L:63:ILE:H	1.64	0.60
3:L:52:ASN:N	3:L:53:PRO:HD2	2.15	0.60
1:P:411:GLU:N	4:0:333:PRO:HB2	2.11	0.60
1:P:530:MET:CG	4:0:354:GLN:HG3	2.30	0.60
1:P:530:MET:HE1	4:0:355:MET:SD	2.40	0.60
1:P:640:LYS:C	1:P:645:SER:OG	2.44	0.60
4:0:245:GLY:N	4:Y:291:LYS:HB2	2.16	0.60
4:2:190:MET:HE1	4:2:206:ARG:HA	1.83	0.60
4:X:223:PHE:HD2	4:X:312:ARG:NH2	1.99	0.60
4:Y:223:PHE:HD2	4:Y:312:ARG:NH2	1.99	0.60
1:A:40:VAL:HG22	1:A:41:VAL:N	2.16	0.60
1:A:837:MLY:O	1:A:840:PRO:HD2	2.02	0.60
3:C:52:ASN:N	3:C:53:PRO:HD2	2.15	0.60
1:G:40:VAL:HG22	1:G:41:VAL:N	2.16	0.60
1:G:148:ARG:HE	1:G:764:MLY:HH21	1.62	0.60
1:J:99:GLU:OE2	1:J:696:ARG:NH2	2.30	0.60
1:J:769:ALA:HB3	1:J:770:GLY:HA3	1.83	0.60
2:K:130:PRO:HA	2:K:133:ILE:HD12	1.83	0.60
3:L:63:ILE:HG22	3:L:64:THR:O	2.01	0.60
1:P:623:PHE:CG	1:P:623:PHE:HA	2.35	0.60
1:P:643:GLY:O	1:P:644:SER:CB	2.49	0.60
1:P:707:CYS:HB3	1:P:712:PRO:HA	1.83	0.60
1:P:792:ALA:CB	3:R:42:THR:CG2	2.79	0.60
2:Q:140:PHE:O	2:Q:141:PRO:C	2.33	0.60
4:0:223:PHE:HD2	4:0:312:ARG:NH2	1.99	0.60
4:1:287:ILE:HD13	4:3:203:THR:N	2.13	0.60
4:4:190:MET:HE1	4:4:206:ARG:HA	1.83	0.60
1:A:124:VAL:CG1	1:A:675:ILE:HD13	2.31	0.60
2:B:114:LYS:HG3	2:B:146:GLY:HA2	1.82	0.60
1:D:38:VAL:HB	1:D:52:ILE:HD11	1.84	0.60
1:D:576:GLU:CG	1:D:577:ALA:N	2.43	0.60
1:D:837:MLY:O	1:D:840:PRO:HD2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:93:MET:HE1	1:G:764:MLY:HD2	1.81	0.60
1:G:538:GLU:CG	4:V:351:THR:C	2.73	0.60
1:J:95:THR:HG23	1:J:96:HIS:ND1	2.17	0.60
1:J:530:MET:CG	4:W:354:GLN:HG3	2.30	0.60
1:P:557:GLU:HG3	1:P:557:GLU:O	2.00	0.60
1:P:599:ASN:CG	1:P:649:VAL:HB	2.25	0.60
1:P:643:GLY:N	4:O:23:GLY:C	2.55	0.60
1:P:793:ARG:NH2	3:R:147:MET:HE1	2.13	0.60
1:P:834:LEU:CD1	2:Q:51:PHE:CD1	2.84	0.60
2:Q:34:ILE:O	2:Q:46:ASP:HB3	2.01	0.60
3:R:50:LEU:O	3:R:53:PRO:HD2	2.00	0.60
3:R:52:ASN:N	3:R:53:PRO:HD2	2.15	0.60
4:1:223:PHE:HD2	4:1:312:ARG:NH2	1.99	0.60
4:1:361:GLU:HB3	4:1:369:ILE:HG12	1.82	0.60
1:A:40:VAL:HG22	1:A:41:VAL:H	1.67	0.60
1:A:553:MLY:NZ	4:V:45:VAL:HG13	2.16	0.60
1:A:798:LEU:CG	3:C:126:LEU:HD11	2.30	0.60
3:C:50:LEU:O	3:C:53:PRO:HD2	2.00	0.60
1:D:800:ARG:HB3	3:F:149:VAL:CG2	2.31	0.60
1:D:813:ILE:O	1:D:817:GLN:N	2.30	0.60
1:G:93:MET:SD	1:G:715:VAL:CA	2.89	0.60
1:J:38:VAL:HB	1:J:52:ILE:HD11	1.83	0.60
2:K:34:ILE:O	2:K:46:ASP:HB3	2.01	0.60
1:P:95:THR:HG23	1:P:96:HIS:ND1	2.17	0.60
1:A:524:GLU:O	1:A:528:MLY:HB3	2.01	0.60
1:D:541:MET:SD	4:9:346:LEU:O	2.48	0.60
1:D:542:PHE:N	4:9:143:TYR:OH	2.33	0.60
1:D:800:ARG:CD	3:F:149:VAL:C	2.75	0.60
1:D:813:ILE:HG21	2:E:128:PHE:CE1	2.35	0.60
1:G:505:MLY:NZ	1:G:762:HIS:NE2	2.33	0.60
1:G:792:ALA:HB3	3:I:42:THR:CG2	1.91	0.60
1:G:797:PHE:CE2	3:I:126:LEU:CG	2.84	0.60
1:G:797:PHE:HE1	3:I:146:ILE:HA	1.64	0.60
1:P:40:VAL:HG22	1:P:41:VAL:H	1.67	0.60
1:P:60:VAL:O	1:P:71:THR:HA	2.02	0.60
1:P:804:ARG:NH2	3:R:149:VAL:HB	2.16	0.60
1:P:817:GLN:NE2	2:Q:127:ARG:HB2	2.16	0.60
2:Q:130:PRO:HA	2:Q:133:ILE:HD12	1.83	0.60
4:7:223:PHE:HD2	4:7:312:ARG:NH2	1.99	0.60
1:A:38:VAL:HB	1:A:52:ILE:HD11	1.84	0.60
1:A:640:LYS:C	1:A:645:SER:OG	2.44	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:40:VAL:HG22	1:D:41:VAL:N	2.16	0.60
1:D:124:VAL:CG1	1:D:675:ILE:HD13	2.31	0.60
1:D:640:LYS:C	1:D:645:SER:OG	2.45	0.60
1:G:60:VAL:O	1:G:71:THR:HA	2.02	0.60
1:G:127:ASN:ND2	1:G:128:PRO:HD2	2.17	0.60
1:G:502:GLU:OE2	1:G:761:GLY:CA	2.49	0.60
1:G:542:PHE:CB	4:V:143:TYR:HE1	2.13	0.60
1:G:640:LYS:C	1:G:645:SER:OG	2.44	0.60
1:G:837:MLY:O	1:G:840:PRO:HD2	2.02	0.60
1:J:124:VAL:HG13	1:J:675:ILE:HD13	1.84	0.60
1:J:506:GLU:CG	1:J:760:PHE:O	2.49	0.60
1:J:578:HIS:CD2	1:J:591:ASN:HA	2.31	0.60
1:J:839:MLY:HH21	2:K:158:THR:HG22	1.83	0.60
1:P:544:LYS:NZ	4:2:45:VAL:HG21	2.16	0.60
1:P:795:ARG:O	3:R:35:ARG:CZ	2.49	0.60
1:A:550:PHE:CE2	1:A:592:ILE:HG23	2.37	0.60
1:A:787:ILE:O	1:A:790:THR:N	2.35	0.60
1:D:166:MET:HE2	1:D:457:TYR:HB2	1.84	0.60
1:D:831:TRP:CZ2	2:E:47:LEU:HB3	2.30	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:542:PHE:N	4:W:143:TYR:OH	2.33	0.60
1:J:837:MLY:O	1:J:840:PRO:HD2	2.02	0.60
1:P:124:VAL:CG1	1:P:675:ILE:HD13	2.31	0.60
1:P:542:PHE:N	4:0:143:TYR:OH	2.33	0.60
4:9:287:ILE:H	4:9:287:ILE:HD12	1.67	0.60
1:A:542:PHE:CD1	4:8:143:TYR:CE1	2.90	0.60
1:A:831:TRP:CG	2:B:51:PHE:CE1	2.80	0.60
2:B:34:ILE:O	2:B:46:ASP:HB3	2.01	0.60
2:B:140:PHE:O	2:B:141:PRO:C	2.33	0.60
1:D:49:MLY:HH13	1:D:108:GLU:OE2	2.02	0.60
1:D:524:GLU:O	1:D:528:MLY:HB3	2.01	0.60
1:D:553:MLY:NZ	4:W:45:VAL:HG13	2.16	0.60
1:G:38:VAL:HB	1:G:52:ILE:HD11	1.84	0.60
1:G:156:PHE:CD1	1:G:195:TYR:CD1	2.90	0.60
1:G:623:PHE:CG	1:G:623:PHE:HA	2.36	0.60
1:G:795:ARG:HA	3:I:118:MET:SD	2.40	0.60
3:I:49:ILE:HA	3:I:52:ASN:ND2	2.05	0.60
1:J:97:LEU:CD2	1:J:712:PRO:HB2	2.24	0.60
1:P:124:VAL:HG13	1:P:675:ILE:HD13	1.84	0.60
1:P:799:MET:CG	3:R:35:ARG:HD2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:223:PHE:HD2	4:V:312:ARG:NH2	1.99	0.60
4:Z:223:PHE:HD2	4:Z:312:ARG:NH2	1.99	0.60
1:A:60:VAL:O	1:A:71:THR:HA	2.02	0.60
1:A:95:THR:HG23	1:A:96:HIS:ND1	2.16	0.60
1:A:538:GLU:CG	4:8:351:THR:C	2.74	0.60
1:D:95:THR:HG23	1:D:96:HIS:ND1	2.17	0.60
1:D:507:GLY:HA2	1:D:762:HIS:CG	2.37	0.60
1:D:530:MET:HA	4:9:354:GLN:CB	2.29	0.60
1:D:536:LEU:HD13	1:D:550:PHE:CE1	2.37	0.60
1:D:612:GLN:HE22	1:D:627:GLY:HA2	1.66	0.60
1:D:735:GLY:O	1:D:743:ALA:HA	1.94	0.60
1:G:578:HIS:CD2	1:G:591:ASN:HA	2.31	0.60
1:G:813:ILE:O	1:G:817:GLN:N	2.30	0.60
2:H:34:ILE:O	2:H:46:ASP:HB3	2.01	0.60
3:I:3:SER:HG	3:I:5:ALA:N	1.99	0.60
1:J:124:VAL:CG1	1:J:675:ILE:HD13	2.31	0.60
1:J:166:MET:HE2	1:J:457:TYR:HB2	1.84	0.60
1:J:640:LYS:C	1:J:645:SER:OG	2.44	0.60
1:J:787:ILE:O	1:J:790:THR:N	2.35	0.60
1:P:166:MET:HE2	1:P:457:TYR:HB2	1.84	0.60
1:P:767:PHE:CE1	1:P:772:LEU:CD1	2.85	0.60
1:P:795:ARG:CZ	3:R:42:THR:HB	2.31	0.60
4:7:287:ILE:HD12	4:7:287:ILE:H	1.67	0.60
1:A:505:MLY:CB	1:A:761:GLY:HA2	2.30	0.60
1:D:124:VAL:HG13	1:D:675:ILE:HD13	1.84	0.60
1:D:769:ALA:C	1:D:774:LEU:CD1	2.66	0.60
1:D:815:CYS:O	2:E:90:GLY:O	2.19	0.60
2:E:117:LEU:CB	2:E:147:ASN:ND2	2.35	0.60
1:J:94:MET:C	1:J:713:SER:CB	2.51	0.60
1:J:735:GLY:O	1:J:743:ALA:HA	1.94	0.60
3:R:3:SER:HG	3:R:5:ALA:N	2.00	0.60
4:2:324:THR:CG2	4:4:243:PRO:O	2.49	0.60
4:8:287:ILE:H	4:8:287:ILE:HD12	1.67	0.60
1:A:530:MET:CG	4:8:354:GLN:HG3	2.30	0.59
1:A:839:MLY:HH11	2:B:159:HIS:HD2	1.67	0.59
1:D:60:VAL:O	1:D:71:THR:HA	2.02	0.59
1:G:530:MET:CG	4:V:354:GLN:HG3	2.30	0.59
1:G:829:TRP:HZ2	2:H:83:MET:HE3	1.62	0.59
1:P:49:MLY:HH13	1:P:108:GLU:OE2	2.02	0.59
2:Q:117:LEU:CG	2:Q:147:ASN:CB	2.76	0.59
4:3:324:THR:HG21	4:5:244:ASP:N	1.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:776:GLU:O	1:A:779:ARG:HB3	2.03	0.59
1:D:642:LYS:CG	4:9:22:ALA:CA	2.80	0.59
1:D:836:PHE:HZ	2:E:160:GLY:H	1.50	0.59
3:F:52:ASN:HB2	3:F:53:PRO:CD	2.28	0.59
1:G:538:GLU:HA	4:V:349:LEU:CG	2.28	0.59
1:G:817:GLN:HB3	2:H:127:ARG:CD	2.31	0.59
1:J:553:MLY:HG3	4:Y:45:VAL:O	2.02	0.59
1:P:84:MLY:CH2	1:P:723:ARG:HB3	2.30	0.59
1:P:542:PHE:CD1	4:0:143:TYR:CE1	2.91	0.59
1:P:578:HIS:CD2	1:P:591:ASN:HA	2.31	0.59
1:A:116:TYR:HB2	1:A:153:PRO:O	2.03	0.59
1:A:195:TYR:O	1:A:199:ILE:HG23	2.03	0.59
1:A:536:LEU:HD13	1:A:550:PHE:CE1	2.37	0.59
1:A:623:PHE:CG	1:A:623:PHE:HA	2.36	0.59
3:C:63:ILE:HG22	3:C:64:THR:O	2.01	0.59
1:D:797:PHE:CZ	3:F:126:LEU:HD22	2.23	0.59
1:G:795:ARG:NE	3:I:116:GLU:CG	2.60	0.59
3:I:52:ASN:N	3:I:53:PRO:CD	2.65	0.59
1:J:640:LYS:C	4:W:23:GLY:CA	2.64	0.59
1:P:135:TYR:N	1:P:135:TYR:CD1	2.69	0.59
1:P:536:LEU:HD13	1:P:550:PHE:CE1	2.37	0.59
1:P:550:PHE:CE2	1:P:592:ILE:HG23	2.37	0.59
1:P:783:LEU:CG	1:P:786:ILE:HD12	2.19	0.59
1:P:837:MLY:O	1:P:840:PRO:HD2	2.01	0.59
4:5:287:ILE:H	4:5:287:ILE:HD12	1.67	0.59
1:A:135:TYR:N	1:A:135:TYR:CD1	2.70	0.59
1:D:549:SER:OG	1:D:550:PHE:N	2.36	0.59
1:D:813:ILE:HG21	2:E:128:PHE:HE1	1.66	0.59
1:G:536:LEU:HD13	1:G:550:PHE:CE1	2.37	0.59
1:J:542:PHE:CD1	4:W:143:TYR:CE1	2.91	0.59
1:J:549:SER:OG	1:J:550:PHE:N	2.36	0.59
1:P:84:MLY:CB	1:P:723:ARG:HE	2.14	0.59
1:P:725:ARG:HH22	3:R:93:VAL:HG12	1.63	0.59
1:P:819:ASN:HD21	2:Q:92:ASP:CA	2.15	0.59
1:A:501:GLU:O	1:A:762:HIS:CE1	2.55	0.59
1:A:546:THR:HG22	1:A:547:ASP:N	2.17	0.59
1:D:156:PHE:CD1	1:D:195:TYR:CD1	2.90	0.59
1:D:599:ASN:CB	1:D:649:VAL:HB	2.32	0.59
1:D:724:TYR:CA	1:D:782:MLY:HD2	2.20	0.59
1:G:40:VAL:HG22	1:G:41:VAL:H	1.67	0.59
1:G:195:TYR:O	1:G:199:ILE:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:546:THR:HG22	1:G:547:ASP:N	2.17	0.59
1:J:49:MLY:HH13	1:J:108:GLU:OE2	2.02	0.59
1:J:156:PHE:CD1	1:J:195:TYR:CD1	2.90	0.59
3:L:102:VAL:HG11	3:L:107:LEU:HB2	1.85	0.59
1:P:549:SER:OG	1:P:550:PHE:N	2.35	0.59
1:P:767:PHE:CZ	1:P:772:LEU:HD11	2.37	0.59
1:P:787:ILE:O	1:P:790:THR:N	2.35	0.59
3:R:52:ASN:N	3:R:53:PRO:CD	2.65	0.59
4:X:287:ILE:O	4:Z:205:GLU:OE1	2.21	0.59
2:B:130:PRO:HA	2:B:133:ILE:HD12	1.83	0.59
1:D:464:ILE:HG22	1:D:465:ALA:N	2.18	0.59
1:D:542:PHE:CD1	4:9:143:TYR:CE1	2.90	0.59
1:G:84:MLY:HG2	1:G:723:ARG:CG	2.29	0.59
1:G:550:PHE:CE2	1:G:592:ILE:HG23	2.37	0.59
1:G:646:PHE:CD2	1:G:652:LEU:CD1	2.85	0.59
1:J:230:GLU:O	1:J:234:ASN:HB2	2.03	0.59
1:J:776:GLU:O	1:J:779:ARG:HB3	2.02	0.59
1:J:791:GLN:HB3	3:L:116:GLU:CD	2.28	0.59
1:P:116:TYR:HB2	1:P:153:PRO:O	2.03	0.59
4:2:287:ILE:H	4:2:287:ILE:HD12	1.67	0.59
1:A:166:MET:HE2	1:A:457:TYR:HB2	1.84	0.59
1:A:529:PRO:HG3	4:8:353:GLN:OE1	2.03	0.59
1:A:578:HIS:CD2	1:A:591:ASN:HA	2.31	0.59
1:A:721:LYS:C	1:A:736:GLN:OE1	2.46	0.59
1:A:752:ASP:OD2	1:A:782:MLY:HD3	2.01	0.59
1:A:797:PHE:HE1	3:C:146:ILE:CA	1.93	0.59
1:D:506:GLU:CD	1:D:764:MLY:HE3	2.14	0.59
1:D:601:ASP:N	1:D:602:PRO:HD3	2.18	0.59
1:D:787:ILE:O	1:D:790:THR:N	2.35	0.59
2:E:144:VAL:HG12	2:E:153:ILE:HD11	1.75	0.59
1:J:552:ASN:O	4:Y:47:MET:HE1	2.03	0.59
1:P:800:ARG:CD	3:R:149:VAL:C	2.73	0.59
4:V:286:ASP:OD1	4:X:202:THR:HB	2.02	0.59
4:X:291:LYS:CG	4:Z:243:PRO:C	2.74	0.59
1:A:48:VAL:HG22	1:A:49:MLY:N	2.18	0.59
1:D:550:PHE:CE2	1:D:592:ILE:HG23	2.37	0.59
1:D:795:ARG:HH21	3:F:116:GLU:HG2	1.65	0.59
1:G:166:MET:HE2	1:G:457:TYR:HB2	1.84	0.59
1:G:542:PHE:CD1	4:V:143:TYR:CE1	2.91	0.59
1:G:549:SER:OG	1:G:550:PHE:N	2.36	0.59
1:G:599:ASN:CB	1:G:649:VAL:HB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:130:PRO:HA	2:H:133:ILE:HD12	1.84	0.59
2:H:140:PHE:O	2:H:141:PRO:C	2.33	0.59
3:I:52:ASN:HB2	3:I:53:PRO:CD	2.28	0.59
1:J:149:GLN:HB3	1:J:716:LEU:HD21	1.83	0.59
1:J:553:MLY:CH1	4:Y:45:VAL:HG11	2.32	0.59
1:J:784:ALA:O	1:J:788:THR:HB	2.02	0.59
1:J:836:PHE:CE2	2:K:160:GLY:CA	2.86	0.59
1:P:99:GLU:OE2	1:P:696:ARG:NH2	2.30	0.59
1:P:210:GLN:O	1:P:211:SER:OG	2.15	0.59
1:P:629:GLU:CB	1:P:643:GLY:C	2.76	0.59
1:P:721:LYS:C	1:P:736:GLN:OE1	2.46	0.59
4:1:287:ILE:HB	4:3:203:THR:CA	2.33	0.59
4:3:223:PHE:HD2	4:3:312:ARG:NH2	1.99	0.59
1:A:230:GLU:O	1:A:234:ASN:HB2	2.03	0.59
1:A:502:GLU:OE1	1:A:763:THR:N	2.36	0.59
1:A:601:ASP:N	1:A:602:PRO:HD3	2.18	0.59
1:A:629:GLU:CB	1:A:643:GLY:C	2.75	0.59
3:C:52:ASN:N	3:C:53:PRO:CD	2.65	0.59
1:D:40:VAL:HG22	1:D:41:VAL:H	1.67	0.59
1:D:124:VAL:HG13	1:D:675:ILE:CD1	2.33	0.59
1:D:220:ASP:O	1:D:224:SER:N	2.27	0.59
1:D:726:VAL:HG11	1:D:785:GLU:HB3	1.84	0.59
1:G:721:LYS:C	1:G:736:GLN:OE1	2.46	0.59
1:G:815:CYS:SG	2:H:92:ASP:OD1	2.61	0.59
1:J:265:ILE:HG22	1:J:266:GLU:N	2.18	0.59
1:J:550:PHE:CE2	1:J:592:ILE:HG23	2.37	0.59
1:J:599:ASN:CB	1:J:649:VAL:HB	2.32	0.59
1:J:721:LYS:C	1:J:736:GLN:OE1	2.46	0.59
1:P:538:GLU:O	1:P:541:MET:HB2	2.03	0.59
1:P:601:ASP:N	1:P:602:PRO:HD3	2.18	0.59
2:Q:112:ILE:C	2:Q:147:ASN:O	2.42	0.59
4:3:287:ILE:H	4:3:287:ILE:HD12	1.67	0.59
4:4:287:ILE:H	4:4:287:ILE:HD12	1.67	0.59
1:A:538:GLU:O	1:A:541:MET:HB2	2.03	0.59
1:A:599:ASN:CB	1:A:649:VAL:HB	2.32	0.59
1:A:823:PHE:CD1	2:B:160:GLY:CA	2.86	0.59
1:D:642:LYS:CA	4:9:22:ALA:C	2.71	0.59
1:J:536:LEU:HD13	1:J:550:PHE:CE1	2.37	0.59
1:J:541:MET:SD	4:W:346:LEU:O	2.48	0.59
3:L:127:MET:HE2	3:L:137:ILE:HD13	1.85	0.59
1:P:124:VAL:HG13	1:P:675:ILE:CD1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:195:TYR:O	1:P:199:ILE:HG23	2.03	0.59
1:P:230:GLU:O	1:P:234:ASN:HB2	2.03	0.59
1:P:634:GLY:N	4:0:25:ASP:O	2.31	0.59
1:P:800:ARG:HB3	3:R:149:VAL:CG1	2.33	0.59
4:Y:287:ILE:H	4:Y:287:ILE:HD12	1.67	0.59
1:A:642:LYS:HG2	4:8:22:ALA:C	2.28	0.58
1:A:798:LEU:HD12	3:C:126:LEU:HD21	1.79	0.58
3:C:3:SER:HG	3:C:5:ALA:N	2.00	0.58
1:D:135:TYR:N	1:D:135:TYR:CD1	2.70	0.58
1:D:141:LEU:O	1:D:144:ARG:HB3	2.03	0.58
1:D:629:GLU:CB	1:D:643:GLY:C	2.75	0.58
1:D:830:PRO:HG2	2:E:67:MET:HE2	1.83	0.58
3:F:52:ASN:N	3:F:53:PRO:CD	2.65	0.58
1:G:116:TYR:HB2	1:G:153:PRO:O	2.03	0.58
1:G:149:GLN:HB3	1:G:716:LEU:HD21	1.84	0.58
1:G:230:GLU:O	1:G:234:ASN:HB2	2.03	0.58
1:G:787:ILE:O	1:G:790:THR:N	2.35	0.58
1:J:116:TYR:HB2	1:J:153:PRO:O	2.03	0.58
1:J:195:TYR:O	1:J:199:ILE:HG23	2.03	0.58
1:J:601:ASP:N	1:J:602:PRO:HD3	2.18	0.58
1:J:643:GLY:HA2	4:W:24:ASP:OD1	2.03	0.58
1:P:156:PHE:CD1	1:P:195:TYR:CD1	2.90	0.58
1:P:529:PRO:HG3	4:0:353:GLN:OE1	2.03	0.58
1:P:538:GLU:CG	4:0:351:THR:C	2.73	0.58
1:P:599:ASN:CB	1:P:649:VAL:HB	2.32	0.58
4:2:223:PHE:HD2	4:2:312:ARG:NH2	1.99	0.58
4:Z:287:ILE:HD12	4:Z:287:ILE:H	1.67	0.58
1:A:640:LYS:C	4:8:23:GLY:CA	2.64	0.58
1:D:7:MET:HE3	1:D:14:ALA:HB1	1.85	0.58
1:D:48:VAL:HG22	1:D:49:MLY:N	2.18	0.58
1:D:218:LEU:N	1:D:221:GLN:HE21	2.01	0.58
1:D:546:THR:HG22	1:D:547:ASP:N	2.17	0.58
1:D:629:GLU:HB3	1:D:645:SER:N	2.18	0.58
1:D:747:LEU:HD13	1:D:782:MLY:HH21	1.79	0.58
1:D:792:ALA:CA	3:F:42:THR:HG22	2.26	0.58
1:D:838:ILE:HD11	2:E:54:MET:CE	2.23	0.58
3:F:127:MET:HE2	3:F:137:ILE:HD13	1.85	0.58
1:G:95:THR:HG23	1:G:96:HIS:ND1	2.17	0.58
1:G:124:VAL:HG13	1:G:675:ILE:HD13	1.84	0.58
1:G:135:TYR:N	1:G:135:TYR:CD1	2.70	0.58
1:G:553:MLY:HH13	4:X:45:VAL:CG1	2.25	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:CG	4:V:22:ALA:CA	2.80	0.58
1:J:529:PRO:HG3	4:W:353:GLN:OE1	2.04	0.58
1:J:546:THR:HG22	1:J:547:ASP:N	2.17	0.58
1:J:567:LYS:NZ	4:Y:92:ASN:ND2	2.36	0.58
1:J:629:GLU:HB3	1:J:645:SER:N	2.18	0.58
1:J:755:HIS:HA	1:J:758:TYR:HE1	1.64	0.58
1:J:817:GLN:HG2	2:K:127:ARG:CD	2.19	0.58
1:P:48:VAL:HG22	1:P:49:MLY:N	2.18	0.58
1:P:84:MLY:CD	1:P:723:ARG:HD2	2.33	0.58
1:P:548:THR:HG23	4:2:49:GLN:CB	2.03	0.58
1:P:642:LYS:CG	4:0:22:ALA:CA	2.80	0.58
4:0:246:GLN:CG	4:Y:325:MET:HE1	2.33	0.58
4:0:287:ILE:H	4:0:287:ILE:HD12	1.67	0.58
1:A:107:MLY:CB	1:A:686:MET:HE2	2.32	0.58
1:A:505:MLY:CD	1:A:762:HIS:CD2	2.86	0.58
1:A:557:GLU:HG3	1:A:557:GLU:O	2.00	0.58
3:C:52:ASN:HB2	3:C:53:PRO:CD	2.28	0.58
2:E:130:PRO:HA	2:E:133:ILE:HD12	1.84	0.58
3:F:102:VAL:HG11	3:F:107:LEU:HB2	1.84	0.58
1:G:715:VAL:HG11	1:G:720:PHE:HD1	1.68	0.58
1:G:776:GLU:O	1:G:779:ARG:HB3	2.03	0.58
1:J:40:VAL:HG22	1:J:41:VAL:H	1.67	0.58
1:J:48:VAL:HG22	1:J:49:MLY:N	2.18	0.58
1:J:826:VAL:HG21	2:K:88:LEU:HD23	1.84	0.58
1:P:7:MET:HE3	1:P:14:ALA:HB1	1.85	0.58
1:P:546:THR:HG22	1:P:547:ASP:N	2.17	0.58
1:P:642:LYS:HG2	4:0:22:ALA:C	2.27	0.58
1:P:643:GLY:HA2	4:0:24:ASP:OD1	2.04	0.58
3:R:127:MET:HE2	3:R:137:ILE:HD13	1.85	0.58
1:A:124:VAL:HG13	1:A:675:ILE:HD13	1.84	0.58
3:C:46:ILE:O	3:C:50:LEU:CG	2.47	0.58
3:C:102:VAL:HG11	3:C:107:LEU:HB2	1.85	0.58
1:D:230:GLU:O	1:D:234:ASN:HB2	2.03	0.58
1:D:649:VAL:HA	1:D:649:VAL:HG22	1.80	0.58
1:D:715:VAL:HG11	1:D:720:PHE:HD1	1.68	0.58
1:J:629:GLU:CB	1:J:643:GLY:C	2.76	0.58
1:J:642:LYS:HG2	4:W:22:ALA:C	2.27	0.58
1:J:646:PHE:CD2	1:J:652:LEU:CD1	2.85	0.58
1:J:789:ALA:HB1	3:L:81:GLN:CG	2.32	0.58
3:L:52:ASN:N	3:L:53:PRO:CD	2.65	0.58
1:P:792:ALA:HB3	3:R:81:GLN:HE21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:829:TRP:HZ3	2:Q:84:PHE:CE1	2.04	0.58
1:P:829:TRP:CH2	2:Q:83:MET:HE3	2.38	0.58
4:1:203:THR:HG22	4:Z:287:ILE:C	2.29	0.58
1:A:549:SER:OG	1:A:550:PHE:N	2.36	0.58
1:D:529:PRO:HG3	4:9:353:GLN:OE1	2.03	0.58
1:D:643:GLY:HA2	4:9:24:ASP:OD1	2.04	0.58
1:D:727:LEU:HD21	1:D:782:MLY:HG2	1.85	0.58
3:F:46:ILE:O	3:F:50:LEU:CG	2.47	0.58
1:G:464:ILE:HG22	1:G:465:ALA:N	2.18	0.58
1:G:538:GLU:O	1:G:541:MET:HB2	2.04	0.58
1:G:629:GLU:CB	1:G:643:GLY:C	2.75	0.58
1:G:629:GLU:HB3	1:G:645:SER:N	2.18	0.58
1:J:7:MET:HE3	1:J:14:ALA:HB1	1.85	0.58
1:J:107:MLY:CB	1:J:686:MET:HE2	2.32	0.58
1:J:218:LEU:N	1:J:221:GLN:HE21	2.01	0.58
1:P:552:ASN:HD22	4:2:49:GLN:CD	2.02	0.58
2:Q:144:VAL:CG1	2:Q:153:ILE:HD13	2.20	0.58
4:W:286:ASP:OD1	4:Y:203:THR:HG22	2.04	0.58
1:A:715:VAL:HG11	1:A:720:PHE:HD1	1.68	0.58
1:A:831:TRP:CG	2:B:51:PHE:HE1	2.21	0.58
1:D:538:GLU:O	1:D:541:MET:HB2	2.04	0.58
1:G:64:THR:HG22	1:G:65:GLU:N	2.19	0.58
1:G:510:TRP:CH2	1:G:768:MLY:HH11	2.39	0.58
1:G:601:ASP:N	1:G:602:PRO:HD3	2.18	0.58
1:P:64:THR:HG22	1:P:65:GLU:N	2.19	0.58
4:X:325:MET:CE	4:Z:244:ASP:OD2	2.51	0.58
1:A:646:PHE:CD2	1:A:652:LEU:CD1	2.85	0.58
1:D:107:MLY:CB	1:D:686:MET:HE2	2.32	0.58
1:D:279:LEU:HB3	1:D:280:PRO:HD2	1.86	0.58
1:D:799:MET:SD	3:F:32:ASP:OD2	2.62	0.58
1:G:107:MLY:CB	1:G:686:MET:HE2	2.32	0.58
1:G:254:PHE:CE2	1:G:459:ILE:HD12	2.39	0.58
1:J:124:VAL:HG13	1:J:675:ILE:CD1	2.33	0.58
1:J:135:TYR:N	1:J:135:TYR:CD1	2.69	0.58
1:J:175:ILE:HA	1:J:670:HIS:O	2.03	0.58
1:J:210:GLN:O	1:J:211:SER:OG	2.15	0.58
1:P:279:LEU:HB3	1:P:280:PRO:HD2	1.86	0.58
4:W:285:CYS:O	4:Y:202:THR:CG2	2.52	0.58
1:A:64:THR:HG22	1:A:65:GLU:N	2.19	0.58
1:A:642:LYS:CG	4:8:22:ALA:CA	2.81	0.58
1:D:127:ASN:ND2	1:D:128:PRO:HD2	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:ILE:HA	1:D:670:HIS:O	2.03	0.58
1:D:217:THR:C	1:D:221:GLN:NE2	2.62	0.58
1:D:265:ILE:HG22	1:D:266:GLU:N	2.18	0.58
1:G:567:LYS:HZ1	4:X:92:ASN:HD21	1.50	0.58
1:G:817:GLN:CG	2:H:127:ARG:CD	2.81	0.58
1:P:141:LEU:O	1:P:144:ARG:HB3	2.04	0.58
1:P:629:GLU:HB3	1:P:645:SER:N	2.18	0.58
1:P:776:GLU:O	1:P:779:ARG:HB3	2.02	0.58
1:P:819:ASN:CG	2:Q:90:GLY:O	2.46	0.58
4:1:287:ILE:H	4:1:287:ILE:HD12	1.67	0.58
1:A:124:VAL:HG13	1:A:675:ILE:CD1	2.33	0.58
1:A:409:GLY:HA3	4:8:333:PRO:CD	2.34	0.58
1:A:464:ILE:HG22	1:A:465:ALA:N	2.18	0.58
1:A:839:MLY:HH13	2:B:159:HIS:CD2	2.39	0.58
1:D:721:LYS:C	1:D:736:GLN:OE1	2.46	0.58
1:D:776:GLU:O	1:D:779:ARG:HB3	2.03	0.58
1:D:794:CYS:O	1:D:798:LEU:N	2.36	0.58
1:G:124:VAL:HG13	1:G:675:ILE:CD1	2.33	0.58
1:G:141:LEU:O	1:G:144:ARG:HB3	2.03	0.58
1:J:538:GLU:O	1:J:541:MET:HB2	2.03	0.58
1:J:649:VAL:HA	1:J:649:VAL:HG22	1.80	0.58
1:J:715:VAL:HG11	1:J:720:PHE:HD1	1.68	0.58
1:P:84:MLY:CD	1:P:723:ARG:HD3	2.34	0.58
1:P:175:ILE:HA	1:P:670:HIS:O	2.03	0.58
1:P:599:ASN:CG	1:P:649:VAL:H	2.12	0.58
1:P:804:ARG:O	1:P:808:GLU:OE1	2.21	0.58
3:R:102:VAL:HG11	3:R:107:LEU:HB2	1.85	0.58
4:2:290:ARG:NE	4:4:202:THR:HG21	2.15	0.58
1:A:49:MLY:HH13	1:A:108:GLU:OE2	2.03	0.58
1:A:175:ILE:HA	1:A:670:HIS:O	2.04	0.58
1:A:220:ASP:O	1:A:224:SER:N	2.27	0.58
1:A:642:LYS:CA	4:8:22:ALA:C	2.71	0.58
1:D:726:VAL:CG1	1:D:785:GLU:HB3	2.33	0.58
1:G:49:MLY:HH13	1:G:108:GLU:OE2	2.03	0.58
1:G:529:PRO:HG3	4:V:353:GLN:OE1	2.04	0.58
1:J:279:LEU:HB3	1:J:280:PRO:HD2	1.86	0.58
1:P:265:ILE:HG22	1:P:266:GLU:N	2.18	0.58
1:P:418:THR:HG22	1:P:419:VAL:H	1.69	0.58
1:P:464:ILE:HG22	1:P:465:ALA:N	2.18	0.58
1:P:646:PHE:CD2	1:P:652:LEU:CD1	2.85	0.58
1:P:715:VAL:HG11	1:P:720:PHE:HD1	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:44:MET:HA	4:Z:167:GLU:OE1	2.03	0.58
1:A:141:LEU:O	1:A:144:ARG:HB3	2.03	0.57
1:A:217:THR:C	1:A:221:GLN:NE2	2.62	0.57
1:A:539:GLU:OE2	4:V:45:VAL:C	2.47	0.57
1:A:836:PHE:HD2	2:B:161:GLU:OE1	1.86	0.57
1:D:195:TYR:O	1:D:199:ILE:HG23	2.03	0.57
1:D:254:PHE:CE2	1:D:459:ILE:HD12	2.39	0.57
1:D:640:LYS:C	4:9:23:GLY:CA	2.64	0.57
1:D:798:LEU:HD11	3:F:126:LEU:CD2	2.33	0.57
1:D:834:LEU:CD1	2:E:54:MET:HB2	2.31	0.57
1:G:48:VAL:HG22	1:G:49:MLY:N	2.18	0.57
1:G:279:LEU:HB3	1:G:280:PRO:HD2	1.86	0.57
3:I:127:MET:HE2	3:I:137:ILE:HD13	1.85	0.57
1:J:127:ASN:ND2	1:J:128:PRO:HD2	2.16	0.57
1:J:599:ASN:CG	1:J:649:VAL:H	2.12	0.57
1:P:149:GLN:HG2	1:P:716:LEU:CG	2.25	0.57
1:P:218:LEU:N	1:P:221:GLN:HE21	2.01	0.57
1:P:796:GLY:CA	3:R:40:ASN:CB	2.80	0.57
1:P:813:ILE:O	1:P:816:ILE:N	2.37	0.57
1:P:817:GLN:CD	2:Q:127:ARG:HB2	2.29	0.57
1:P:817:GLN:CG	2:Q:127:ARG:CB	2.71	0.57
4:0:110:LEU:O	4:1:195:GLU:HG3	2.04	0.57
1:A:92:ALA:O	1:A:713:SER:CA	2.50	0.57
1:A:279:LEU:HB3	1:A:280:PRO:HD2	1.86	0.57
1:A:418:THR:HG22	1:A:419:VAL:H	1.69	0.57
1:A:502:GLU:HA	1:A:762:HIS:N	2.19	0.57
1:A:747:LEU:HD23	1:A:747:LEU:O	2.05	0.57
1:A:792:ALA:HB2	3:C:42:THR:HG23	1.74	0.57
1:D:22:LYS:O	1:D:26:GLU:N	2.29	0.57
1:D:322:VAL:HG11	1:D:325:ILE:HD11	1.86	0.57
1:D:676:ILE:HG23	1:D:676:ILE:O	2.03	0.57
1:D:712:PRO:HB2	1:D:771:LEU:CD2	2.33	0.57
1:G:506:GLU:OE2	1:G:760:PHE:CB	2.49	0.57
1:G:568:PRO:HG3	1:G:578:HIS:H	1.69	0.57
1:J:797:PHE:CE1	3:L:146:ILE:CA	2.86	0.57
1:P:93:MET:HE2	1:P:714:ARG:C	2.20	0.57
4:1:244:ASP:HA	4:Z:324:THR:HG23	1.86	0.57
1:A:629:GLU:HB3	1:A:645:SER:N	2.18	0.57
1:D:64:THR:HG22	1:D:65:GLU:N	2.19	0.57
1:G:642:LYS:CD	4:V:340:TRP:CZ3	2.80	0.57
1:J:322:VAL:HG11	1:J:325:ILE:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:202:SER:CA	1:P:207:LYS:HE3	2.27	0.57
1:P:640:LYS:C	4:O:23:GLY:CA	2.64	0.57
1:D:116:TYR:HB2	1:D:153:PRO:O	2.03	0.57
1:D:541:MET:HG2	4:9:345:ILE:CG2	2.35	0.57
1:D:599:ASN:CG	1:D:649:VAL:H	2.12	0.57
1:D:642:LYS:HG2	4:9:22:ALA:C	2.27	0.57
1:D:767:PHE:O	1:D:771:LEU:HD21	2.03	0.57
1:D:813:ILE:O	1:D:816:ILE:N	2.37	0.57
1:G:642:LYS:HG2	4:V:22:ALA:C	2.27	0.57
1:G:813:ILE:O	1:G:816:ILE:N	2.37	0.57
1:G:829:TRP:CE2	2:H:87:LYS:HE2	2.39	0.57
3:I:102:VAL:HG23	3:I:139:TYR:CD1	2.39	0.57
1:J:93:MET:SD	1:J:716:LEU:HB2	2.45	0.57
1:J:784:ALA:O	1:J:788:THR:CB	2.52	0.57
1:P:322:VAL:HG11	1:P:325:ILE:HD11	1.86	0.57
1:P:747:LEU:O	1:P:747:LEU:HD23	2.05	0.57
3:R:102:VAL:HG23	3:R:139:TYR:CD1	2.39	0.57
4:X:287:ILE:HG13	4:Z:201:VAL:CB	2.34	0.57
1:A:218:LEU:N	1:A:221:GLN:HE21	2.01	0.57
1:A:254:PHE:CE2	1:A:459:ILE:HD12	2.39	0.57
1:A:599:ASN:CG	1:A:649:VAL:H	2.12	0.57
1:A:813:ILE:O	1:A:816:ILE:N	2.37	0.57
1:D:418:THR:HG22	1:D:419:VAL:H	1.69	0.57
1:G:175:ILE:HA	1:G:670:HIS:O	2.03	0.57
1:G:409:GLY:HA3	4:V:333:PRO:CD	2.35	0.57
1:G:557:GLU:HG3	1:G:557:GLU:O	2.00	0.57
1:J:82:PRO:HD2	1:J:85:TYR:CD2	2.40	0.57
1:J:464:ILE:HG22	1:J:465:ALA:N	2.18	0.57
1:J:676:ILE:HG23	1:J:676:ILE:O	2.03	0.57
1:J:836:PHE:CE1	2:K:160:GLY:N	2.70	0.57
3:L:3:SER:HG	3:L:5:ALA:N	2.02	0.57
1:P:649:VAL:HA	1:P:649:VAL:HG22	1.80	0.57
1:P:730:SER:OG	3:R:89:GLU:CD	2.47	0.57
1:A:265:ILE:HG22	1:A:266:GLU:N	2.18	0.57
1:A:813:ILE:O	1:A:817:GLN:N	2.30	0.57
1:A:817:GLN:OE1	2:B:127:ARG:CZ	2.25	0.57
3:C:127:MET:HE2	3:C:137:ILE:HD13	1.85	0.57
1:D:409:GLY:HA3	4:9:333:PRO:CD	2.35	0.57
1:D:831:TRP:CG	2:E:51:PHE:HZ	2.21	0.57
1:G:218:LEU:N	1:G:221:GLN:HE21	2.01	0.57
1:J:409:GLY:HA3	4:W:333:PRO:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:561:LYS:HE3	4:Y:48:GLY:CA	2.29	0.57
1:J:642:LYS:CA	4:W:22:ALA:C	2.70	0.57
1:J:756:THR:HG23	1:J:779:ARG:HD2	1.85	0.57
1:J:795:ARG:HH21	3:L:116:GLU:CG	2.17	0.57
1:P:821:ARG:NH2	2:Q:127:ARG:CD	2.66	0.57
1:A:783:LEU:O	1:A:787:ILE:N	2.28	0.57
1:G:99:GLU:OE2	1:G:696:ARG:NH2	2.30	0.57
1:G:411:GLU:N	4:V:333:PRO:HB2	2.11	0.57
1:G:508:ILE:CD1	1:G:759:ALA:CB	2.68	0.57
1:G:599:ASN:CG	1:G:649:VAL:H	2.12	0.57
1:G:754:ASP:O	1:G:776:GLU:OE2	2.23	0.57
1:J:64:THR:HG22	1:J:65:GLU:N	2.19	0.57
1:J:541:MET:HG2	4:W:345:ILE:CG2	2.35	0.57
1:J:747:LEU:O	1:J:747:LEU:HD23	2.05	0.57
1:P:254:PHE:CE2	1:P:459:ILE:HD12	2.39	0.57
4:0:167:GLU:CD	4:2:42:GLY:CA	2.43	0.57
1:A:541:MET:HG2	4:8:345:ILE:CG2	2.34	0.57
1:A:676:ILE:HG23	1:A:676:ILE:O	2.03	0.57
1:D:530:MET:HA	4:9:354:GLN:CD	2.11	0.57
1:D:579:PHE:CD2	1:D:592:ILE:HD11	2.39	0.57
1:G:7:MET:HE3	1:G:14:ALA:HB1	1.85	0.57
1:G:796:GLY:HA2	3:I:35:ARG:CZ	2.35	0.57
1:G:838:ILE:CG1	2:H:54:MET:HE1	2.34	0.57
1:J:254:PHE:CE2	1:J:459:ILE:HD12	2.39	0.57
1:P:541:MET:HG2	4:0:345:ILE:CG2	2.35	0.57
1:P:676:ILE:O	1:P:676:ILE:HG23	2.03	0.57
1:P:677:PRO:HB2	1:P:678:ASN:ND2	2.20	0.57
4:2:322:PRO:HB2	4:4:244:ASP:CG	2.17	0.57
4:3:322:PRO:C	4:5:244:ASP:HB2	2.30	0.57
1:A:109:ARG:O	1:A:114:MET:N	2.37	0.57
1:D:82:PRO:HD2	1:D:85:TYR:CD2	2.40	0.57
1:D:568:PRO:HG3	1:D:578:HIS:H	1.69	0.57
1:D:831:TRP:CZ2	2:E:47:LEU:CG	2.84	0.57
1:G:829:TRP:CH2	2:H:87:LYS:NZ	2.73	0.57
1:J:141:LEU:O	1:J:144:ARG:HB3	2.04	0.57
1:J:530:MET:CA	4:W:354:GLN:HB3	2.35	0.57
1:P:795:ARG:C	3:R:35:ARG:NH1	2.63	0.57
4:W:223:PHE:HD2	4:W:312:ARG:NH2	1.99	0.57
1:A:322:VAL:HG11	1:A:325:ILE:HD11	1.86	0.57
1:A:634:GLY:N	4:8:25:ASP:O	2.31	0.57
1:A:643:GLY:HA2	4:8:24:ASP:OD1	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:3:SER:HG	3:F:5:ALA:N	2.03	0.57
1:G:82:PRO:HD2	1:G:85:TYR:CD2	2.40	0.57
1:G:97:LEU:HD22	1:G:712:PRO:CB	2.22	0.57
1:G:148:ARG:HH22	1:G:764:MLY:HH11	1.70	0.57
1:G:676:ILE:HG23	1:G:676:ILE:O	2.03	0.57
1:J:677:PRO:HB2	1:J:678:ASN:ND2	2.20	0.57
1:J:783:LEU:O	1:J:787:ILE:CB	2.52	0.57
1:P:127:ASN:ND2	1:P:128:PRO:HD2	2.16	0.57
4:1:287:ILE:HG22	4:3:204:ALA:H	1.69	0.57
1:A:481:ASN:N	1:A:481:ASN:ND2	2.51	0.56
1:A:836:PHE:CE2	2:B:160:GLY:N	2.68	0.56
3:C:102:VAL:HG23	3:C:139:TYR:CD1	2.39	0.56
1:D:22:LYS:HA	1:D:25:ILE:HB	1.87	0.56
1:D:530:MET:CA	4:9:354:GLN:HB3	2.35	0.56
3:F:102:VAL:HG23	3:F:139:TYR:CD1	2.39	0.56
1:G:817:GLN:CG	2:H:127:ARG:CB	2.80	0.56
2:H:117:LEU:CG	2:H:147:ASN:CB	2.76	0.56
1:J:95:THR:N	1:J:713:SER:HB3	2.19	0.56
1:J:579:PHE:CD2	1:J:592:ILE:HD11	2.40	0.56
1:J:710:GLY:N	1:J:772:LEU:HD22	2.15	0.56
1:P:568:PRO:HG3	1:P:578:HIS:H	1.69	0.56
1:P:638:GLY:CA	4:0:345:ILE:H	2.18	0.56
3:R:46:ILE:O	3:R:50:LEU:CG	2.47	0.56
4:X:285:CYS:O	4:Z:202:THR:CG2	2.48	0.56
1:A:82:PRO:HD2	1:A:85:TYR:CD2	2.40	0.56
1:A:411:GLU:N	4:8:333:PRO:HB2	2.11	0.56
1:A:502:GLU:O	1:A:761:GLY:CA	2.53	0.56
1:A:529:PRO:CG	4:8:353:GLN:OE1	2.53	0.56
1:A:568:PRO:HG3	1:A:578:HIS:H	1.69	0.56
1:A:707:CYS:SG	1:A:714:ARG:NH1	2.78	0.56
1:D:733:PRO:CB	1:D:737:PHE:HE1	2.19	0.56
1:D:795:ARG:HB3	3:F:35:ARG:HH22	1.66	0.56
1:G:338:ILE:HG21	1:G:348:MLY:HB3	1.87	0.56
1:G:831:TRP:CH2	2:H:47:LEU:HD22	2.18	0.56
1:J:642:LYS:HG2	4:W:21:PHE:C	2.29	0.56
1:P:707:CYS:SG	1:P:714:ARG:CZ	2.93	0.56
1:P:786:ILE:CA	1:P:788:THR:OG1	2.53	0.56
1:P:813:ILE:O	1:P:817:GLN:N	2.30	0.56
1:P:817:GLN:HG2	2:Q:127:ARG:CD	2.35	0.56
1:A:7:MET:HE3	1:A:14:ALA:HB1	1.85	0.56
1:A:302:MET:HG2	1:A:303:LEU:HD13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:649:VAL:HA	1:A:649:VAL:HG23	1.83	0.56
1:A:754:ASP:CG	1:A:778:MET:HE1	2.29	0.56
1:A:755:HIS:HA	1:A:758:TYR:HE1	1.64	0.56
1:D:411:GLU:H	4:9:333:PRO:HG2	1.71	0.56
1:D:646:PHE:CD2	1:D:652:LEU:CD1	2.85	0.56
1:D:677:PRO:HB2	1:D:678:ASN:ND2	2.20	0.56
1:G:217:THR:C	1:G:221:GLN:NE2	2.62	0.56
1:G:265:ILE:HG22	1:G:266:GLU:N	2.18	0.56
1:G:541:MET:HG2	4:V:345:ILE:CG2	2.35	0.56
1:G:612:GLN:HE22	1:G:627:GLY:HA2	1.66	0.56
1:G:677:PRO:HB2	1:G:678:ASN:ND2	2.20	0.56
1:G:733:PRO:CB	1:G:737:PHE:HE1	2.19	0.56
1:G:755:HIS:CB	1:G:779:ARG:NH2	2.65	0.56
3:I:102:VAL:HG11	3:I:107:LEU:HB2	1.85	0.56
1:J:418:THR:HG22	1:J:419:VAL:H	1.69	0.56
1:J:568:PRO:HG3	1:J:578:HIS:H	1.69	0.56
1:P:409:GLY:HA3	4:0:333:PRO:CD	2.34	0.56
1:P:642:LYS:HG2	4:0:21:PHE:C	2.29	0.56
1:P:642:LYS:CA	4:0:22:ALA:C	2.70	0.56
1:P:799:MET:CB	3:R:35:ARG:CB	2.83	0.56
1:P:829:TRP:HH2	2:Q:84:PHE:CE1	2.21	0.56
4:0:243:PRO:HB2	4:Y:291:LYS:NZ	2.20	0.56
4:2:287:ILE:HB	4:4:204:ALA:N	2.21	0.56
1:A:135:TYR:N	1:A:135:TYR:HD1	2.04	0.56
1:A:295:MLY:CG	1:A:332:MET:HE2	2.36	0.56
1:A:411:GLU:H	4:8:333:PRO:HG2	1.71	0.56
1:A:677:PRO:HB2	1:A:678:ASN:ND2	2.20	0.56
1:A:725:ARG:HG3	1:A:733:PRO:CA	2.35	0.56
1:D:116:TYR:CE2	1:D:154:HIS:CD2	2.94	0.56
1:D:642:LYS:HG2	4:9:21:PHE:C	2.30	0.56
1:D:733:PRO:CA	1:D:737:PHE:HE1	2.19	0.56
1:D:747:LEU:HD23	1:D:747:LEU:O	2.05	0.56
1:D:798:LEU:HD13	3:F:126:LEU:CD1	2.21	0.56
1:D:831:TRP:NE1	2:E:47:LEU:HD22	2.21	0.56
1:G:322:VAL:HG11	1:G:325:ILE:HD11	1.86	0.56
1:G:559:LEU:HD23	1:G:559:LEU:C	2.31	0.56
1:G:792:ALA:CA	3:I:42:THR:HA	2.36	0.56
1:G:817:GLN:CD	2:H:127:ARG:CB	2.79	0.56
1:J:116:TYR:CE2	1:J:154:HIS:CD2	2.94	0.56
1:J:217:THR:C	1:J:221:GLN:NE2	2.62	0.56
1:J:638:GLY:CA	4:W:345:ILE:H	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:794:CYS:O	1:J:798:LEU:N	2.37	0.56
1:J:813:ILE:O	1:J:816:ILE:N	2.37	0.56
1:P:635:GLY:HA3	4:0:334:GLU:CG	2.30	0.56
1:P:783:LEU:HA	1:P:786:ILE:CD1	2.34	0.56
1:P:818:TYR:CZ	2:Q:127:ARG:NH1	2.73	0.56
4:1:365:ALA:HB3	4:1:369:ILE:HB	1.88	0.56
4:3:365:ALA:HB3	4:3:369:ILE:HB	1.88	0.56
1:A:338:ILE:HG21	1:A:348:MLY:HB3	1.87	0.56
1:A:630:ALA:CA	4:8:25:ASP:OD2	2.53	0.56
1:D:135:TYR:N	1:D:135:TYR:HD1	2.04	0.56
1:G:84:MLY:NZ	1:G:724:TYR:CD2	2.61	0.56
1:G:302:MET:HG2	1:G:303:LEU:HD13	1.88	0.56
1:J:135:TYR:N	1:J:135:TYR:HD1	2.04	0.56
1:J:338:ILE:HG21	1:J:348:MLY:HB3	1.87	0.56
1:J:817:GLN:CB	2:K:127:ARG:HH11	2.18	0.56
2:K:117:LEU:CG	2:K:147:ASN:CB	2.76	0.56
1:P:116:TYR:CE2	1:P:154:HIS:CD2	2.94	0.56
1:P:338:ILE:HG21	1:P:348:MLY:HB3	1.87	0.56
1:P:733:PRO:CA	1:P:737:PHE:HE1	2.19	0.56
4:4:299:MET:HE2	4:4:331:ALA:HB2	1.88	0.56
4:Y:365:ALA:HB3	4:Y:369:ILE:HB	1.87	0.56
1:D:406:VAL:HG12	1:D:407:GLY:H	1.71	0.56
1:G:92:ALA:O	1:G:714:ARG:N	2.38	0.56
1:G:109:ARG:O	1:G:114:MET:N	2.37	0.56
1:G:418:THR:HG22	1:G:419:VAL:H	1.69	0.56
1:G:643:GLY:HA2	4:V:24:ASP:OD1	2.04	0.56
1:J:754:ASP:HB3	1:J:780:ASP:OD2	2.02	0.56
3:L:102:VAL:HG23	3:L:139:TYR:CD1	2.39	0.56
1:P:82:PRO:HD2	1:P:85:TYR:CD2	2.40	0.56
1:P:506:GLU:HG2	1:P:760:PHE:N	2.20	0.56
4:0:365:ALA:HB3	4:0:369:ILE:HB	1.88	0.56
1:A:93:MET:HE3	1:A:715:VAL:HA	1.77	0.56
1:A:206:LYS:HB3	1:A:217:THR:OG1	2.06	0.56
1:A:210:GLN:O	1:A:211:SER:OG	2.15	0.56
1:A:546:THR:HG21	1:A:548:THR:HB	1.88	0.56
1:A:795:ARG:CG	3:C:35:ARG:NH1	2.46	0.56
1:D:435:GLU:O	1:D:438:PHE:HB3	2.06	0.56
1:G:295:MLY:CG	1:G:332:MET:HE2	2.36	0.56
1:G:643:GLY:N	4:V:23:GLY:C	2.55	0.56
1:G:725:ARG:HG3	1:G:733:PRO:CA	2.36	0.56
1:J:630:ALA:CA	4:W:25:ASP:OD2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:634:GLY:N	4:W:25:ASP:O	2.31	0.56
1:J:796:GLY:CA	3:L:35:ARG:CD	2.72	0.56
1:P:13:ALA:C	1:P:15:PRO:HD2	2.31	0.56
1:P:206:LYS:HB3	1:P:217:THR:OG1	2.06	0.56
1:P:530:MET:CA	4:O:354:GLN:HB3	2.35	0.56
1:P:579:PHE:CD2	1:P:592:ILE:HD11	2.40	0.56
4:O:173:HIS:CD2	4:1:268:GLY:CA	2.88	0.56
1:A:116:TYR:CE2	1:A:154:HIS:CD2	2.94	0.56
1:A:559:LEU:HD23	1:A:559:LEU:C	2.31	0.56
1:A:733:PRO:CA	1:A:737:PHE:HE1	2.19	0.56
1:D:732:ILE:CG2	1:D:747:LEU:HD11	1.26	0.56
1:G:529:PRO:CG	4:V:353:GLN:OE1	2.54	0.56
1:G:557:GLU:HB2	4:X:47:MET:O	2.04	0.56
1:G:747:LEU:HD23	1:G:747:LEU:O	2.05	0.56
1:G:783:LEU:HA	1:G:786:ILE:HB	1.87	0.56
3:I:49:ILE:CA	3:I:52:ASN:ND2	2.53	0.56
1:J:95:THR:CA	1:J:713:SER:HB3	2.36	0.56
1:J:640:LYS:C	4:W:23:GLY:C	2.74	0.56
1:P:406:VAL:HG12	1:P:407:GLY:H	1.71	0.56
1:P:541:MET:SD	4:O:346:LEU:O	2.48	0.56
1:P:629:GLU:O	1:P:643:GLY:HA3	2.06	0.56
1:P:640:LYS:C	4:O:23:GLY:C	2.74	0.56
1:P:794:CYS:O	1:P:798:LEU:N	2.36	0.56
1:P:795:ARG:NH1	3:R:45:GLU:H	2.03	0.56
1:A:22:LYS:O	1:A:26:GLU:HG3	2.06	0.56
1:D:215:GLN:CA	1:D:340:ILE:CG2	2.63	0.56
1:D:630:ALA:CA	4:9:25:ASP:OD2	2.53	0.56
1:G:13:ALA:C	1:G:15:PRO:HD2	2.31	0.56
1:G:28:GLN:CA	1:G:723:ARG:HH22	2.19	0.56
1:G:135:TYR:N	1:G:135:TYR:HD1	2.04	0.56
1:G:206:LYS:HB3	1:G:217:THR:OG1	2.06	0.56
1:G:631:GLU:C	4:V:25:ASP:HB2	2.31	0.56
1:J:13:ALA:C	1:J:15:PRO:HD2	2.31	0.56
1:J:629:GLU:O	1:J:643:GLY:HA3	2.06	0.56
2:K:144:VAL:HG12	2:K:153:ILE:HD11	1.75	0.56
1:P:22:LYS:HA	1:P:25:ILE:HB	1.87	0.56
1:P:559:LEU:C	1:P:559:LEU:HD23	2.31	0.56
4:V:291:LYS:HD2	4:X:243:PRO:HB2	1.87	0.56
4:X:365:ALA:HB3	4:X:369:ILE:HB	1.88	0.56
1:A:7:MET:HE3	1:A:14:ALA:CB	2.36	0.56
1:A:217:THR:HG22	1:A:218:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:GLN:HG2	1:A:331:LEU:HA	1.87	0.56
1:A:438:PHE:HA	1:A:441:MET:HE3	1.88	0.56
1:A:530:MET:CA	4:8:354:GLN:HB3	2.35	0.56
1:A:546:THR:HB	1:A:549:SER:H	1.71	0.56
1:A:733:PRO:CB	1:A:737:PHE:HE1	2.19	0.56
1:D:32:PHE:CG	1:D:83:PRO:HD3	2.41	0.56
1:D:529:PRO:CG	4:9:353:GLN:OE1	2.53	0.56
1:D:732:ILE:HG22	1:D:747:LEU:CD1	1.55	0.56
1:G:28:GLN:HB3	1:G:723:ARG:NH2	2.20	0.56
1:G:537:GLU:HB3	1:G:648:THR:CB	2.36	0.56
1:J:530:MET:CB	4:W:354:GLN:HG3	2.36	0.56
1:J:769:ALA:HB3	1:J:770:GLY:HA2	1.85	0.56
1:P:32:PHE:CG	1:P:83:PRO:HD3	2.41	0.56
1:P:530:MET:CB	4:0:354:GLN:HG3	2.37	0.56
1:P:630:ALA:CA	4:0:25:ASP:OD2	2.53	0.56
1:P:795:ARG:CG	3:R:116:GLU:OE2	2.54	0.56
4:1:324:THR:OG1	4:3:244:ASP:CB	2.53	0.56
4:4:365:ALA:HB3	4:4:369:ILE:HB	1.88	0.56
4:7:365:ALA:HB3	4:7:369:ILE:HB	1.88	0.56
4:W:365:ALA:HB3	4:W:369:ILE:HB	1.88	0.56
1:A:649:VAL:HG22	1:A:649:VAL:HA	1.80	0.55
1:A:836:PHE:CZ	2:B:159:HIS:CA	2.88	0.55
1:A:836:PHE:CE2	2:B:160:GLY:C	2.84	0.55
1:G:7:MET:HE3	1:G:14:ALA:CB	2.36	0.55
1:G:22:LYS:O	1:G:26:GLU:HG3	2.06	0.55
1:G:116:TYR:CE2	1:G:154:HIS:CD2	2.94	0.55
1:G:435:GLU:O	1:G:438:PHE:HB3	2.06	0.55
1:G:438:PHE:HA	1:G:441:MET:HE3	1.88	0.55
1:G:530:MET:CA	4:V:354:GLN:HB3	2.35	0.55
1:G:649:VAL:CG1	1:G:649:VAL:HA	2.35	0.55
1:J:206:LYS:HB3	1:J:217:THR:OG1	2.06	0.55
1:P:800:ARG:HD2	3:R:149:VAL:HG13	1.87	0.55
1:P:829:TRP:CH2	2:Q:87:LYS:NZ	2.68	0.55
4:1:203:THR:HG23	4:Z:288:ASP:CG	2.29	0.55
4:1:287:ILE:HG21	4:3:203:THR:N	2.19	0.55
1:A:32:PHE:CG	1:A:83:PRO:HD3	2.42	0.55
1:A:529:PRO:CB	4:8:354:GLN:HA	2.36	0.55
1:A:735:GLY:O	1:A:743:ALA:HA	1.94	0.55
1:A:813:ILE:HG21	2:B:127:ARG:CD	2.21	0.55
1:D:99:GLU:OE2	1:D:696:ARG:NH2	2.30	0.55
1:D:529:PRO:CB	4:9:354:GLN:HA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:537:GLU:HB3	1:D:648:THR:CB	2.36	0.55
1:D:546:THR:HG21	1:D:548:THR:HB	1.88	0.55
1:D:629:GLU:O	1:D:643:GLY:HA3	2.06	0.55
1:D:724:TYR:CD1	1:D:782:MLY:CD	2.89	0.55
1:G:217:THR:HG22	1:G:218:LEU:O	2.06	0.55
1:G:411:GLU:H	4:V:333:PRO:HG2	1.70	0.55
1:J:635:GLY:HA3	4:W:334:GLU:CG	2.30	0.55
1:P:435:GLU:O	1:P:438:PHE:HB3	2.06	0.55
1:P:529:PRO:CG	4:O:353:GLN:OE1	2.54	0.55
1:P:631:GLU:C	4:O:25:ASP:HB2	2.31	0.55
4:1:287:ILE:HB	4:3:203:THR:CB	2.35	0.55
4:9:365:ALA:HB3	4:9:369:ILE:HB	1.88	0.55
4:V:288:ASP:N	4:X:204:ALA:H	2.03	0.55
4:X:287:ILE:HG13	4:Z:201:VAL:CG2	2.33	0.55
1:A:604:ASN:OD1	1:A:607:VAL:HG23	2.06	0.55
1:A:629:GLU:O	1:A:643:GLY:HA3	2.06	0.55
1:A:631:GLU:C	4:8:25:ASP:HB2	2.32	0.55
1:D:13:ALA:C	1:D:15:PRO:HD2	2.31	0.55
1:D:290:GLN:HG2	1:D:331:LEU:HA	1.87	0.55
1:D:631:GLU:C	4:9:25:ASP:HB2	2.31	0.55
1:D:640:LYS:C	4:9:23:GLY:C	2.74	0.55
1:D:806:MET:HE1	3:F:17:PHE:CE2	2.41	0.55
2:E:156:VAL:HA	2:E:159:HIS:O	2.07	0.55
1:G:629:GLU:O	1:G:643:GLY:HA3	2.06	0.55
1:G:733:PRO:CA	1:G:737:PHE:HE1	2.19	0.55
3:I:35:ARG:HA	3:I:39:GLN:O	2.07	0.55
1:J:646:PHE:CE2	1:J:652:LEU:CG	2.90	0.55
1:P:7:MET:HE3	1:P:14:ALA:CB	2.36	0.55
1:P:135:TYR:N	1:P:135:TYR:HD1	2.04	0.55
1:P:217:THR:HG22	1:P:218:LEU:O	2.05	0.55
1:P:290:GLN:NE2	1:P:334:THR:OG1	2.40	0.55
1:P:438:PHE:HA	1:P:441:MET:HE3	1.88	0.55
1:P:549:SER:HA	4:2:49:GLN:HG3	1.89	0.55
1:P:579:PHE:HE1	1:P:581:LEU:HD13	1.72	0.55
1:P:733:PRO:CB	1:P:737:PHE:HE1	2.19	0.55
4:2:299:MET:HE2	4:2:331:ALA:HB2	1.88	0.55
4:2:365:ALA:HB3	4:2:369:ILE:HB	1.88	0.55
4:Z:365:ALA:HB3	4:Z:369:ILE:HB	1.88	0.55
1:A:345:ALA:O	1:A:349:THR:N	2.40	0.55
1:A:799:MET:SD	3:C:32:ASP:O	2.64	0.55
1:D:217:THR:HG22	1:D:218:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:438:PHE:HA	1:D:441:MET:HE3	1.88	0.55
1:D:638:GLY:CA	4:9:345:ILE:H	2.19	0.55
1:G:604:ASN:OD1	1:G:607:VAL:HG23	2.06	0.55
1:G:819:ASN:CG	2:H:92:ASP:HB3	2.22	0.55
1:J:7:MET:HE3	1:J:14:ALA:CB	2.36	0.55
1:J:22:LYS:HA	1:J:25:ILE:HB	1.87	0.55
1:J:93:MET:CG	1:J:715:VAL:HA	2.36	0.55
1:J:529:PRO:CB	4:W:354:GLN:HA	2.36	0.55
1:P:295:MLY:CG	1:P:332:MET:HE2	2.36	0.55
1:P:411:GLU:H	4:0:333:PRO:HG2	1.71	0.55
1:P:646:PHE:CE2	1:P:652:LEU:CG	2.90	0.55
1:P:797:PHE:CE1	3:R:146:ILE:HG21	2.23	0.55
2:Q:156:VAL:HA	2:Q:159:HIS:O	2.07	0.55
3:R:123:VAL:O	3:R:127:MET:HG2	2.07	0.55
4:0:299:MET:HE2	4:0:331:ALA:HB2	1.87	0.55
4:3:287:ILE:HG21	4:5:204:ALA:H	1.67	0.55
4:5:299:MET:HE2	4:5:331:ALA:HB2	1.88	0.55
4:Y:299:MET:HE2	4:Y:331:ALA:HB2	1.88	0.55
1:A:290:GLN:NE2	1:A:334:THR:OG1	2.40	0.55
1:A:640:LYS:C	4:8:23:GLY:C	2.74	0.55
2:B:156:VAL:HA	2:B:159:HIS:O	2.07	0.55
1:D:604:ASN:OD1	1:D:607:VAL:HG23	2.06	0.55
1:D:646:PHE:CE2	1:D:652:LEU:CG	2.90	0.55
1:D:806:MET:HE1	3:F:17:PHE:HE2	1.71	0.55
1:G:22:LYS:HA	1:G:25:ILE:HB	1.87	0.55
1:G:541:MET:SD	4:V:346:LEU:O	2.48	0.55
1:G:638:GLY:CA	4:V:345:ILE:H	2.18	0.55
1:G:765:VAL:HG12	1:G:766:PHE:N	2.22	0.55
1:G:801:VAL:HG23	3:I:126:LEU:HD21	1.85	0.55
1:J:217:THR:HG22	1:J:218:LEU:O	2.05	0.55
1:J:406:VAL:HG12	1:J:407:GLY:H	1.71	0.55
1:J:438:PHE:HA	1:J:441:MET:HE3	1.88	0.55
1:J:579:PHE:HE1	1:J:581:LEU:HD13	1.72	0.55
4:3:299:MET:HE2	4:3:331:ALA:HB2	1.88	0.55
1:A:530:MET:CB	4:8:354:GLN:HG3	2.36	0.55
1:A:813:ILE:HD13	2:B:128:PHE:HE1	1.72	0.55
1:D:338:ILE:HG21	1:D:348:MLY:HB3	1.87	0.55
1:D:559:LEU:HD23	1:D:559:LEU:C	2.31	0.55
1:D:800:ARG:CB	3:F:149:VAL:HG22	2.36	0.55
1:G:93:MET:CE	1:G:764:MLY:HD2	2.30	0.55
1:G:649:VAL:HA	1:G:649:VAL:HG22	1.80	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:123:VAL:O	3:I:127:MET:HG2	2.07	0.55
1:J:32:PHE:CG	1:J:83:PRO:HD3	2.41	0.55
1:J:302:MET:HG2	1:J:303:LEU:HD13	1.87	0.55
1:J:345:ALA:O	1:J:349:THR:N	2.40	0.55
1:J:529:PRO:CG	4:W:353:GLN:OE1	2.54	0.55
1:J:567:LYS:HZ2	4:Y:92:ASN:HA	1.69	0.55
1:J:725:ARG:HG3	1:J:733:PRO:CA	2.36	0.55
1:J:733:PRO:CA	1:J:737:PHE:HE1	2.19	0.55
1:J:829:TRP:HH2	2:K:83:MET:HE3	1.69	0.55
2:K:156:VAL:HA	2:K:159:HIS:O	2.07	0.55
1:P:546:THR:HG21	1:P:548:THR:HB	1.88	0.55
1:P:839:MLY:HH21	2:Q:158:THR:HG22	1.89	0.55
1:A:13:ALA:C	1:A:15:PRO:HD2	2.31	0.55
1:A:406:VAL:HG12	1:A:407:GLY:H	1.71	0.55
1:A:537:GLU:HB3	1:A:648:THR:CB	2.36	0.55
1:D:7:MET:HE3	1:D:14:ALA:CB	2.36	0.55
1:D:635:GLY:HA3	4:9:334:GLU:CG	2.30	0.55
3:F:35:ARG:HA	3:F:39:GLN:O	2.07	0.55
1:G:546:THR:HB	1:G:549:SER:H	1.71	0.55
1:G:649:VAL:HA	1:G:649:VAL:HG23	1.83	0.55
1:G:723:ARG:CG	1:G:723:ARG:HH11	2.20	0.55
1:G:796:GLY:CA	3:I:35:ARG:CZ	2.84	0.55
1:J:290:GLN:HG2	1:J:331:LEU:HA	1.87	0.55
1:J:295:MLY:CG	1:J:332:MET:HE2	2.36	0.55
1:J:435:GLU:O	1:J:438:PHE:HB3	2.06	0.55
1:J:631:GLU:C	4:W:25:ASP:HB2	2.31	0.55
1:P:84:MLY:CE	1:P:723:ARG:HD2	2.37	0.55
1:P:505:MLY:CD	1:P:762:HIS:CD2	2.59	0.55
4:5:365:ALA:HB3	4:5:369:ILE:HB	1.88	0.55
1:A:765:VAL:HG12	1:A:766:PHE:N	2.22	0.55
3:F:123:VAL:O	3:F:127:MET:HG2	2.07	0.55
1:G:93:MET:CA	1:G:714:ARG:H	1.96	0.55
1:G:290:GLN:NE2	1:G:334:THR:OG1	2.40	0.55
1:G:579:PHE:HE1	1:G:581:LEU:HD13	1.72	0.55
1:G:646:PHE:CE2	1:G:652:LEU:CG	2.90	0.55
3:R:35:ARG:HA	3:R:39:GLN:O	2.07	0.55
4:1:244:ASP:CG	4:Z:322:PRO:HB3	2.31	0.55
4:1:299:MET:HE2	4:1:331:ALA:HB2	1.88	0.55
1:A:435:GLU:O	1:A:438:PHE:HB3	2.06	0.55
3:C:35:ARG:HA	3:C:39:GLN:O	2.07	0.55
3:C:123:VAL:O	3:C:127:MET:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:206:LYS:HB3	1:D:217:THR:OG1	2.06	0.55
1:D:302:MET:HG2	1:D:303:LEU:HD13	1.87	0.55
1:D:629:GLU:CA	1:D:643:GLY:C	2.73	0.55
1:D:638:GLY:HA2	4:9:345:ILE:H	1.72	0.55
1:D:649:VAL:HA	1:D:649:VAL:HG23	1.82	0.55
1:D:783:LEU:O	1:D:787:ILE:N	2.28	0.55
1:G:220:ASP:O	1:G:224:SER:N	2.27	0.55
1:G:798:LEU:HD22	3:I:118:MET:HG3	1.88	0.55
1:G:829:TRP:HZ2	2:H:83:MET:CE	2.17	0.55
2:H:156:VAL:HA	2:H:159:HIS:O	2.07	0.55
1:J:82:PRO:HD2	1:J:85:TYR:HD2	1.72	0.55
1:J:295:MLY:CD	1:J:332:MET:HE2	2.37	0.55
1:J:411:GLU:H	4:W:333:PRO:HG2	1.71	0.55
1:J:733:PRO:CB	1:J:737:PHE:HE1	2.19	0.55
1:P:22:LYS:O	1:P:26:GLU:HG3	2.07	0.55
1:P:82:PRO:HD2	1:P:85:TYR:HD2	1.72	0.55
1:P:135:TYR:HD2	1:P:191:ARG:HG2	1.72	0.55
1:P:604:ASN:OD1	1:P:607:VAL:HG23	2.06	0.55
1:A:630:ALA:HA	4:8:25:ASP:OD2	2.07	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:D:135:TYR:HD2	1:D:191:ARG:HG2	1.72	0.55
1:D:305:ILE:HG22	1:D:312:TYR:CE2	2.42	0.55
1:D:539:GLU:OE2	4:W:45:VAL:C	2.47	0.55
1:G:290:GLN:HG2	1:G:331:LEU:HA	1.87	0.55
1:G:638:GLY:HA2	4:V:345:ILE:H	1.71	0.55
1:J:290:GLN:NE2	1:J:334:THR:OG1	2.40	0.55
1:J:559:LEU:HD23	1:J:559:LEU:C	2.31	0.55
1:P:290:GLN:HG2	1:P:331:LEU:HA	1.87	0.55
1:P:295:MLY:CD	1:P:332:MET:HE2	2.37	0.55
1:P:546:THR:HB	1:P:549:SER:H	1.71	0.55
4:1:287:ILE:CA	4:3:202:THR:HB	2.35	0.55
4:2:148:THR:HG21	4:4:45:VAL:HG21	1.89	0.55
4:9:299:MET:HE2	4:9:331:ALA:HB2	1.88	0.55
4:W:286:ASP:OD2	4:Y:203:THR:CG2	2.47	0.55
4:Z:299:MET:HE2	4:Z:331:ALA:HB2	1.88	0.55
1:A:10:PHE:O	1:A:12:GLU:N	2.41	0.54
1:A:22:LYS:HA	1:A:25:ILE:HB	1.87	0.54
1:A:502:GLU:CD	1:A:764:MLY:N	2.64	0.54
1:D:530:MET:CB	4:9:354:GLN:HG3	2.36	0.54
2:E:163:ALA:C	2:K:22:THR:OG1	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:546:THR:HG21	1:G:548:THR:HB	1.88	0.54
1:G:798:LEU:CD2	3:I:118:MET:CB	2.84	0.54
1:J:629:GLU:CA	1:J:643:GLY:C	2.73	0.54
1:J:838:ILE:HD12	2:K:54:MET:HE3	1.74	0.54
1:P:217:THR:C	1:P:221:GLN:NE2	2.62	0.54
1:P:548:THR:CB	4:2:49:GLN:N	2.64	0.54
4:V:291:LYS:HD2	4:X:243:PRO:CB	2.38	0.54
4:W:299:MET:HE2	4:W:331:ALA:HB2	1.88	0.54
1:A:78:PHE:HB3	1:A:98:HIS:NE2	2.22	0.54
1:A:612:GLN:HE22	1:A:627:GLY:HA2	1.66	0.54
1:A:638:GLY:CA	4:8:345:ILE:H	2.19	0.54
3:C:49:ILE:CA	3:C:52:ASN:ND2	2.53	0.54
1:D:295:MLY:CD	1:D:332:MET:HE2	2.37	0.54
1:D:470:PHE:O	1:D:473:ASN:ND2	2.40	0.54
1:D:649:VAL:CG1	1:D:649:VAL:HA	2.35	0.54
1:D:823:PHE:CD1	2:E:160:GLY:CA	2.90	0.54
1:D:831:TRP:CG	2:E:51:PHE:CZ	2.95	0.54
1:G:126:VAL:HG13	1:G:675:ILE:HG22	1.89	0.54
1:G:732:ILE:CG2	1:G:747:LEU:HD11	1.26	0.54
1:J:839:MLY:HH21	2:K:158:THR:CG2	2.37	0.54
3:L:52:ASN:HB2	3:L:53:PRO:CD	2.28	0.54
1:P:302:MET:HG2	1:P:303:LEU:HD13	1.87	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CZ	2.42	0.54
1:P:529:PRO:CB	4:0:354:GLN:HA	2.36	0.54
1:P:765:VAL:HG12	1:P:766:PHE:N	2.22	0.54
4:1:244:ASP:HB3	4:Z:322:PRO:HB2	1.89	0.54
4:7:299:MET:HE2	4:7:331:ALA:HB2	1.88	0.54
4:V:365:ALA:HB3	4:V:369:ILE:HB	1.88	0.54
4:X:299:MET:HE2	4:X:331:ALA:HB2	1.88	0.54
1:A:82:PRO:HD2	1:A:85:TYR:HD2	1.72	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CE2	2.43	0.54
1:A:638:GLY:HA2	4:8:345:ILE:H	1.72	0.54
1:A:649:VAL:CG1	1:A:649:VAL:HA	2.35	0.54
1:A:757:GLN:O	1:A:771:LEU:HD22	2.07	0.54
1:D:295:MLY:CG	1:D:332:MET:HE2	2.36	0.54
1:D:723:ARG:CG	1:D:723:ARG:HH11	2.20	0.54
1:G:32:PHE:CG	1:G:83:PRO:HD3	2.41	0.54
1:G:78:PHE:HB3	1:G:98:HIS:NE2	2.23	0.54
1:G:82:PRO:HD2	1:G:85:TYR:HD2	1.72	0.54
1:G:506:GLU:OE2	1:G:760:PHE:C	2.50	0.54
1:G:530:MET:CB	4:V:354:GLN:HG3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:640:LYS:C	4:V:23:GLY:CA	2.64	0.54
1:J:561:LYS:CE	4:Y:48:GLY:CA	2.82	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CE2	2.43	0.54
1:A:126:VAL:HG13	1:A:675:ILE:HG22	1.90	0.54
1:D:10:PHE:O	1:D:12:GLU:N	2.41	0.54
1:D:546:THR:HB	1:D:549:SER:H	1.71	0.54
1:D:571:ALA:O	1:D:572:LYS:CB	2.56	0.54
1:D:727:LEU:H	1:D:782:MLY:CH2	2.20	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CE2	2.42	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CZ	2.42	0.54
1:J:470:PHE:O	1:J:473:ASN:ND2	2.40	0.54
1:J:546:THR:HG21	1:J:548:THR:HB	1.88	0.54
1:J:604:ASN:OD1	1:J:607:VAL:HG23	2.06	0.54
1:J:638:GLY:HA2	4:W:345:ILE:H	1.72	0.54
1:J:642:LYS:HA	4:W:22:ALA:C	2.33	0.54
3:L:123:VAL:O	3:L:127:MET:HG2	2.07	0.54
1:P:93:MET:HA	1:P:714:ARG:N	2.22	0.54
1:P:220:ASP:O	1:P:224:SER:N	2.27	0.54
1:P:470:PHE:O	1:P:473:ASN:ND2	2.40	0.54
1:P:725:ARG:HG3	1:P:733:PRO:CA	2.36	0.54
4:8:365:ALA:HB3	4:8:369:ILE:HB	1.88	0.54
1:A:502:GLU:C	1:A:761:GLY:CA	2.79	0.54
1:A:579:PHE:HE1	1:A:581:LEU:HD13	1.72	0.54
2:B:114:LYS:N	2:B:146:GLY:O	2.40	0.54
1:D:22:LYS:O	1:D:26:GLU:HG3	2.07	0.54
1:D:290:GLN:NE2	1:D:334:THR:OG1	2.40	0.54
1:D:724:TYR:HD1	1:D:782:MLY:CD	2.21	0.54
2:E:139:ALA:C	2:E:141:PRO:HD3	2.33	0.54
1:G:38:VAL:CB	1:G:52:ILE:HD11	2.38	0.54
1:G:345:ALA:O	1:G:349:THR:N	2.40	0.54
1:G:529:PRO:CB	4:V:354:GLN:HA	2.37	0.54
1:G:530:MET:HA	4:V:354:GLN:CD	2.11	0.54
1:G:838:ILE:CG1	2:H:54:MET:CE	2.85	0.54
1:J:10:PHE:O	1:J:12:GLU:N	2.40	0.54
1:J:126:VAL:HG13	1:J:675:ILE:HG22	1.90	0.54
1:J:537:GLU:HB3	1:J:648:THR:CB	2.36	0.54
1:J:649:VAL:CG1	1:J:649:VAL:HA	2.35	0.54
1:P:38:VAL:CB	1:P:52:ILE:HD11	2.38	0.54
1:P:537:GLU:HB3	1:P:648:THR:CB	2.36	0.54
1:P:786:ILE:O	1:P:788:THR:CA	2.50	0.54
1:P:789:ALA:HA	3:R:81:GLN:CD	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:797:PHE:CE2	3:R:126:LEU:CD1	2.78	0.54
2:Q:144:VAL:HG12	2:Q:153:ILE:HD11	1.75	0.54
4:3:324:THR:H	4:5:244:ASP:HA	1.72	0.54
4:V:299:MET:HE2	4:V:331:ALA:HB2	1.88	0.54
1:A:51:THR:C	1:A:62:VAL:HG13	2.32	0.54
1:A:295:MLY:CD	1:A:332:MET:HE2	2.37	0.54
1:A:571:ALA:O	1:A:572:LYS:CB	2.56	0.54
1:A:794:CYS:O	1:A:798:LEU:N	2.37	0.54
1:A:800:ARG:HH21	3:C:40:ASN:CG	1.99	0.54
1:D:82:PRO:HD2	1:D:85:TYR:HD2	1.72	0.54
1:D:126:VAL:HG13	1:D:675:ILE:HG22	1.90	0.54
1:D:345:ALA:O	1:D:349:THR:N	2.39	0.54
1:G:10:PHE:O	1:G:12:GLU:N	2.41	0.54
1:G:789:ALA:HB1	3:I:81:GLN:NE2	2.22	0.54
1:J:22:LYS:O	1:J:26:GLU:HG3	2.07	0.54
1:J:78:PHE:HB3	1:J:98:HIS:NE2	2.22	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CE2	2.43	0.54
1:J:546:THR:HB	1:J:549:SER:H	1.71	0.54
1:J:817:GLN:CB	2:K:127:ARG:HD3	2.14	0.54
2:K:146:GLY:O	2:K:147:ASN:ND2	2.41	0.54
1:P:10:PHE:O	1:P:12:GLU:N	2.40	0.54
1:P:78:PHE:HB3	1:P:98:HIS:NE2	2.22	0.54
1:P:109:ARG:O	1:P:114:MET:N	2.37	0.54
1:P:345:ALA:O	1:P:349:THR:N	2.40	0.54
1:P:493:HIS:ND1	1:P:514:ASP:OD2	2.41	0.54
1:P:629:GLU:CA	1:P:643:GLY:C	2.73	0.54
1:P:786:ILE:N	1:P:788:THR:OG1	2.41	0.54
1:A:135:TYR:HD2	1:A:191:ARG:HG2	1.72	0.54
1:A:642:LYS:HG2	4:8:21:PHE:C	2.30	0.54
1:D:553:MLY:HG3	4:W:44:MET:O	2.07	0.54
1:D:739:ASP:CB	1:D:742:LYS:CB	2.81	0.54
1:D:791:GLN:O	1:D:794:CYS:HB2	2.08	0.54
2:H:146:GLY:O	2:H:147:ASN:ND2	2.41	0.54
1:J:135:TYR:HD2	1:J:191:ARG:HG2	1.72	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CZ	2.42	0.54
1:J:561:LYS:HE2	4:Y:48:GLY:HA3	1.88	0.54
1:J:791:GLN:NE2	3:L:116:GLU:H	2.05	0.54
1:P:51:THR:C	1:P:62:VAL:HG13	2.32	0.54
1:P:791:GLN:O	1:P:794:CYS:HB2	2.08	0.54
4:O:202:THR:HG23	4:Y:287:ILE:H	1.72	0.54
4:O:202:THR:CB	4:Y:287:ILE:N	2.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:288:ASP:CA	4:V:204:ALA:HB2	2.31	0.54
1:A:538:GLU:HG3	4:8:352:PHE:CA	2.38	0.54
1:A:797:PHE:CE1	3:C:146:ILE:HG23	2.42	0.54
1:D:38:VAL:CB	1:D:52:ILE:HD11	2.38	0.54
1:D:78:PHE:HB3	1:D:98:HIS:NE2	2.22	0.54
1:G:135:TYR:HD2	1:G:191:ARG:HG2	1.72	0.54
1:G:640:LYS:C	4:V:23:GLY:C	2.75	0.54
1:G:642:LYS:HG2	4:V:21:PHE:C	2.30	0.54
3:L:35:ARG:HA	3:L:39:GLN:O	2.06	0.54
1:P:733:PRO:CG	3:R:93:VAL:HG21	2.36	0.54
1:A:149:GLN:OE1	1:A:716:LEU:CG	2.54	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CZ	2.43	0.54
1:D:218:LEU:CD2	1:D:222:ILE:CG1	2.86	0.54
1:D:305:ILE:HG22	1:D:312:TYR:CZ	2.42	0.54
1:D:642:LYS:HA	4:9:22:ALA:C	2.33	0.54
1:G:406:VAL:HG12	1:G:407:GLY:H	1.71	0.54
1:G:819:ASN:CB	2:H:92:ASP:HB2	2.26	0.54
1:J:51:THR:C	1:J:62:VAL:HG13	2.32	0.54
1:J:103:LEU:C	1:J:103:LEU:HD12	2.33	0.54
1:J:493:HIS:ND1	1:J:514:ASP:OD2	2.41	0.54
1:J:757:GLN:HA	1:J:776:GLU:CB	2.37	0.54
1:J:765:VAL:HG12	1:J:766:PHE:N	2.22	0.54
1:P:126:VAL:HG13	1:P:675:ILE:HG22	1.90	0.54
1:P:571:ALA:O	1:P:572:LYS:CB	2.56	0.54
4:3:287:ILE:HB	4:5:203:THR:CG2	2.35	0.54
4:8:299:MET:HE2	4:8:331:ALA:HB2	1.88	0.54
1:A:22:LYS:O	1:A:26:GLU:N	2.29	0.54
1:A:38:VAL:CB	1:A:52:ILE:HD11	2.38	0.54
1:A:218:LEU:N	1:A:221:GLN:HG2	2.23	0.54
1:A:796:GLY:HA3	3:C:40:ASN:OD1	2.07	0.54
1:D:804:ARG:NH2	3:F:149:VAL:HA	2.22	0.54
3:F:92:ARG:HA	3:F:139:TYR:OH	2.08	0.54
1:G:404:PRO:CG	1:G:417:GLU:HG3	2.38	0.54
1:G:493:HIS:ND1	1:G:514:ASP:OD2	2.41	0.54
1:G:538:GLU:HG3	4:V:352:PHE:CA	2.38	0.54
1:G:571:ALA:O	1:G:572:LYS:CB	2.56	0.54
1:G:642:LYS:HA	4:V:22:ALA:C	2.33	0.54
1:J:791:GLN:O	1:J:794:CYS:HB2	2.08	0.54
3:L:46:ILE:O	3:L:50:LEU:CG	2.47	0.54
1:P:215:GLN:CA	1:P:340:ILE:CG2	2.62	0.54
1:P:538:GLU:HG3	4:0:352:PHE:CA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:638:GLY:HA2	4:0:345:ILE:H	1.72	0.54
4:1:45:VAL:HG23	4:Z:148:THR:OG1	2.07	0.54
4:V:324:THR:HG22	4:X:247:VAL:HG13	1.90	0.54
1:A:404:PRO:CG	1:A:417:GLU:HG3	2.38	0.53
1:A:553:MLY:O	4:V:48:GLY:CA	2.56	0.53
1:A:753:VAL:CG1	1:A:775:LEU:HD23	2.32	0.53
1:D:51:THR:C	1:D:62:VAL:HG13	2.32	0.53
1:D:103:LEU:C	1:D:103:LEU:HD12	2.33	0.53
1:D:630:ALA:HA	4:9:25:ASP:OD2	2.07	0.53
1:G:51:THR:C	1:G:62:VAL:HG13	2.32	0.53
1:G:470:PHE:O	1:G:473:ASN:ND2	2.40	0.53
1:G:556:ASP:OD2	4:X:44:MET:HG3	2.08	0.53
3:I:92:ARG:HA	3:I:139:TYR:OH	2.08	0.53
1:J:538:GLU:HG3	4:W:352:PHE:CA	2.38	0.53
1:J:739:ASP:CB	1:J:742:LYS:CB	2.81	0.53
2:K:117:LEU:CB	2:K:147:ASN:ND2	2.35	0.53
1:P:135:TYR:HD2	1:P:191:ARG:HD3	1.73	0.53
1:P:277:PHE:CG	1:P:278:GLN:N	2.76	0.53
4:1:287:ILE:CG2	4:3:202:THR:CA	2.82	0.53
4:4:185:LEU:HD23	4:4:306:TYR:OH	2.09	0.53
1:A:470:PHE:O	1:A:473:ASN:ND2	2.40	0.53
1:G:135:TYR:HD2	1:G:191:ARG:HD3	1.73	0.53
1:G:576:GLU:CG	1:G:577:ALA:N	2.43	0.53
1:G:707:CYS:HB3	1:G:712:PRO:HA	1.90	0.53
1:G:792:ALA:HA	3:I:42:THR:HA	1.89	0.53
1:J:22:LYS:O	1:J:26:GLU:N	2.30	0.53
1:J:38:VAL:CB	1:J:52:ILE:HD11	2.38	0.53
1:J:798:LEU:HD22	3:L:118:MET:SD	2.48	0.53
1:P:32:PHE:CD1	1:P:83:PRO:HD3	2.44	0.53
1:P:154:HIS:CE1	1:P:156:PHE:HD2	2.26	0.53
1:P:584:TYR:CD1	1:P:585:ALA:N	2.77	0.53
4:1:202:THR:HA	4:Z:287:ILE:HG13	1.91	0.53
4:2:322:PRO:C	4:4:244:ASP:HB2	2.33	0.53
1:A:584:TYR:CD1	1:A:585:ALA:N	2.77	0.53
1:A:819:ASN:OD1	2:B:92:ASP:N	2.40	0.53
1:A:837:MLY:HH21	2:H:20:ASP:HB2	1.88	0.53
2:E:146:GLY:O	2:E:147:ASN:ND2	2.41	0.53
1:G:148:ARG:NE	1:G:764:MLY:CH2	2.68	0.53
1:G:295:MLY:CD	1:G:332:MET:HE2	2.38	0.53
1:G:553:MLY:HH12	4:X:45:VAL:CG1	2.29	0.53
1:G:661:MET:O	1:G:665:ARG:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:754:ASP:HB2	1:G:776:GLU:CG	2.35	0.53
1:G:791:GLN:O	1:G:794:CYS:HB2	2.08	0.53
1:G:794:CYS:O	1:G:798:LEU:N	2.37	0.53
1:G:830:PRO:HG3	2:H:67:MET:HE2	1.85	0.53
1:J:135:TYR:HD2	1:J:191:ARG:HD3	1.73	0.53
1:J:642:LYS:CG	4:W:22:ALA:CA	2.80	0.53
1:J:756:THR:HG23	1:J:779:ARG:CD	2.38	0.53
1:P:724:TYR:CZ	1:P:776:GLU:OE2	2.60	0.53
4:Y:185:LEU:HD23	4:Y:306:TYR:OH	2.09	0.53
1:A:85:TYR:HH	1:A:772:LEU:CD2	1.85	0.53
1:A:149:GLN:HA	1:A:719:ASP:CG	2.33	0.53
1:A:642:LYS:HA	4:8:22:ALA:C	2.34	0.53
1:D:98:HIS:HB3	1:D:100:PRO:CD	2.25	0.53
1:D:529:PRO:HB2	4:9:354:GLN:HA	1.91	0.53
1:D:579:PHE:HE1	1:D:581:LEU:HD13	1.72	0.53
1:G:634:GLY:N	4:V:25:ASP:O	2.31	0.53
1:J:32:PHE:CD1	1:J:83:PRO:HD3	2.43	0.53
1:J:218:LEU:N	1:J:221:GLN:HG2	2.24	0.53
1:P:218:LEU:N	1:P:221:GLN:HG2	2.24	0.53
1:P:404:PRO:CG	1:P:417:GLU:HG3	2.38	0.53
1:P:612:GLN:HE22	1:P:627:GLY:HA2	1.66	0.53
4:0:185:LEU:HD23	4:0:306:TYR:OH	2.09	0.53
4:W:288:ASP:H	4:Y:204:ALA:H	1.56	0.53
1:A:791:GLN:O	1:A:794:CYS:HB2	2.08	0.53
3:C:92:ARG:HA	3:C:139:TYR:OH	2.08	0.53
1:D:218:LEU:HA	1:D:221:GLN:HG3	1.71	0.53
1:D:404:PRO:CG	1:D:417:GLU:HG3	2.38	0.53
1:D:553:MLY:O	4:W:48:GLY:CA	2.56	0.53
1:G:103:LEU:C	1:G:103:LEU:HD12	2.33	0.53
1:G:251:ARG:HB2	1:G:264:ASP:HB2	1.91	0.53
1:G:817:GLN:NE2	2:H:128:PHE:HE1	2.04	0.53
1:J:404:PRO:CG	1:J:417:GLU:HG3	2.38	0.53
1:J:630:ALA:HA	4:W:25:ASP:OD2	2.07	0.53
1:P:103:LEU:C	1:P:103:LEU:HD12	2.33	0.53
1:P:649:VAL:CG1	1:P:649:VAL:HA	2.35	0.53
4:8:185:LEU:HD23	4:8:306:TYR:OH	2.08	0.53
1:A:42:HIS:HB3	1:A:45:GLN:O	2.09	0.53
1:A:529:PRO:HB2	4:8:354:GLN:HA	1.91	0.53
1:A:806:MET:HE1	3:C:17:PHE:HE2	1.73	0.53
2:B:130:PRO:O	2:B:131:GLU:C	2.52	0.53
2:B:146:GLY:O	2:B:147:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:HIS:HB3	1:D:45:GLN:O	2.09	0.53
1:D:134:VAL:C	1:D:136:ASN:H	2.16	0.53
1:D:277:PHE:CG	1:D:278:GLN:N	2.76	0.53
1:D:795:ARG:HD2	3:F:35:ARG:NH1	2.23	0.53
2:E:129:THR:O	2:E:133:ILE:HG13	2.09	0.53
1:G:277:PHE:CG	1:G:278:GLN:N	2.76	0.53
1:G:752:ASP:O	1:G:780:ASP:CB	2.56	0.53
1:J:584:TYR:CD1	1:J:585:ALA:N	2.77	0.53
1:J:733:PRO:O	1:J:737:PHE:CE1	2.53	0.53
1:J:795:ARG:CA	3:L:35:ARG:NH2	2.64	0.53
2:Q:114:LYS:O	2:Q:147:ASN:ND2	2.41	0.53
2:Q:146:GLY:O	2:Q:147:ASN:ND2	2.41	0.53
4:O:243:PRO:HB2	4:Y:291:LYS:HE3	1.90	0.53
4:O:246:GLN:HG2	4:Y:325:MET:CE	2.38	0.53
4:7:185:LEU:HD23	4:7:306:TYR:OH	2.09	0.53
4:X:287:ILE:HG23	4:Z:201:VAL:CG2	2.38	0.53
1:A:135:TYR:HD2	1:A:191:ARG:HD3	1.74	0.53
1:A:493:HIS:ND1	1:A:514:ASP:OD2	2.41	0.53
1:A:723:ARG:CG	1:A:723:ARG:HH11	2.20	0.53
1:D:95:THR:O	1:D:770:GLY:N	2.42	0.53
1:D:135:TYR:HD2	1:D:191:ARG:HD3	1.73	0.53
1:D:218:LEU:N	1:D:221:GLN:HG2	2.24	0.53
1:D:584:TYR:CD1	1:D:585:ALA:N	2.77	0.53
1:D:798:LEU:CD2	3:F:122:GLU:HB3	2.37	0.53
1:G:218:LEU:N	1:G:221:GLN:HG2	2.24	0.53
3:I:46:ILE:O	3:I:50:LEU:CG	2.47	0.53
1:J:109:ARG:O	1:J:114:MET:N	2.37	0.53
1:J:220:ASP:O	1:J:224:SER:N	2.27	0.53
1:J:418:THR:CB	1:J:421:GLU:HG3	2.37	0.53
1:J:529:PRO:HB2	4:W:354:GLN:HA	1.91	0.53
1:J:661:MET:O	1:J:665:ARG:HG3	2.09	0.53
2:K:130:PRO:O	2:K:131:GLU:C	2.52	0.53
3:L:92:ARG:HA	3:L:139:TYR:OH	2.08	0.53
1:P:84:MLY:HA	1:P:723:ARG:CZ	2.38	0.53
1:P:630:ALA:HA	4:O:25:ASP:OD2	2.07	0.53
1:P:642:LYS:HA	4:O:22:ALA:C	2.33	0.53
1:P:804:ARG:CB	1:P:808:GLU:CD	2.80	0.53
1:P:830:PRO:HB3	2:Q:67:MET:HE2	1.90	0.53
4:O:112:PRO:HG3	4:1:195:GLU:CA	2.23	0.53
1:A:579:PHE:CD2	1:A:592:ILE:HD11	2.40	0.53
3:C:104:GLY:HA2	3:C:137:ILE:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:110:VAL:HG13	3:C:114:LEU:HD12	1.91	0.53
1:D:32:PHE:CD1	1:D:83:PRO:HD3	2.43	0.53
1:D:135:TYR:CD2	1:D:191:ARG:HG2	2.44	0.53
1:D:661:MET:O	1:D:665:ARG:HG3	2.09	0.53
1:D:732:ILE:H	1:D:733:PRO:HD2	1.74	0.53
1:G:32:PHE:CD1	1:G:83:PRO:HD3	2.44	0.53
1:J:251:ARG:HB2	1:J:264:ASP:HB2	1.91	0.53
1:P:798:LEU:HD11	3:R:126:LEU:HD11	1.90	0.53
4:2:185:LEU:HD23	4:2:306:TYR:OH	2.09	0.53
1:A:103:LEU:C	1:A:103:LEU:HD12	2.33	0.53
1:A:156:PHE:HD1	1:A:195:TYR:CD1	2.27	0.53
1:A:355:THR:OG1	1:A:437:MET:HE1	2.09	0.53
1:A:661:MET:O	1:A:665:ARG:HG3	2.09	0.53
1:A:759:ALA:O	1:A:766:PHE:N	2.32	0.53
1:A:823:PHE:CE1	2:B:160:GLY:HA3	2.39	0.53
1:D:404:PRO:HG3	1:D:417:GLU:HG3	1.91	0.53
1:D:418:THR:CB	1:D:421:GLU:HG3	2.37	0.53
1:D:493:HIS:ND1	1:D:514:ASP:OD2	2.41	0.53
1:D:507:GLY:O	1:D:762:HIS:CD2	2.61	0.53
1:D:838:ILE:C	1:D:840:PRO:HD2	2.34	0.53
2:E:163:ALA:C	2:K:21:GLU:HB3	2.33	0.53
1:G:355:THR:OG1	1:G:437:MET:HE1	2.09	0.53
1:G:636:LYS:HB2	4:V:334:GLU:OE1	2.09	0.53
2:H:130:PRO:O	2:H:131:GLU:C	2.52	0.53
1:J:404:PRO:HG3	1:J:417:GLU:HG3	1.91	0.53
1:J:571:ALA:O	1:J:572:LYS:CB	2.56	0.53
2:K:129:THR:O	2:K:133:ILE:HG13	2.09	0.53
1:P:404:PRO:HG3	1:P:417:GLU:HG3	1.91	0.53
1:P:552:ASN:HB3	4:2:41:GLN:NE2	2.23	0.53
3:R:92:ARG:HA	3:R:139:TYR:OH	2.08	0.53
4:5:185:LEU:HD23	4:5:306:TYR:OH	2.09	0.53
4:X:185:LEU:HD23	4:X:306:TYR:OH	2.09	0.53
1:A:32:PHE:CD1	1:A:83:PRO:HD3	2.44	0.53
1:A:135:TYR:CD2	1:A:191:ARG:HG2	2.44	0.53
2:B:114:LYS:O	2:B:147:ASN:ND2	2.41	0.53
1:D:494:HIS:O	1:D:498:LEU:HB2	2.09	0.53
1:D:798:LEU:CD1	3:F:126:LEU:CD2	2.87	0.53
1:G:792:ALA:CB	3:I:42:THR:N	2.70	0.53
1:J:277:PHE:CG	1:J:278:GLN:N	2.76	0.53
3:L:53:PRO:HB2	3:L:55:LYS:HG3	1.91	0.53
1:P:135:TYR:CD2	1:P:191:ARG:HG2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:156:PHE:HD1	1:P:195:TYR:CD1	2.27	0.53
1:P:251:ARG:HB2	1:P:264:ASP:HB2	1.91	0.53
1:P:529:PRO:HB2	4:0:354:GLN:HA	1.91	0.53
2:Q:130:PRO:O	2:Q:131:GLU:C	2.52	0.53
4:3:185:LEU:HD23	4:3:306:TYR:OH	2.09	0.53
4:X:324:THR:HB	4:Z:247:VAL:N	2.22	0.53
1:A:277:PHE:CG	1:A:278:GLN:N	2.76	0.52
1:A:836:PHE:CE2	2:B:160:GLY:CA	2.92	0.52
1:G:838:ILE:C	1:G:840:PRO:HD2	2.35	0.52
2:H:114:LYS:HA	2:H:147:ASN:HD22	1.75	0.52
1:J:197:ALA:O	1:J:201:ALA:HB2	2.10	0.52
1:P:838:ILE:C	1:P:840:PRO:HD2	2.34	0.52
4:7:180:LEU:HD22	4:7:267:ILE:HD11	1.92	0.52
1:D:154:HIS:CE1	1:D:156:PHE:HD2	2.26	0.52
1:D:556:ASP:HB3	4:W:43:VAL:HG12	1.91	0.52
1:D:793:ARG:CZ	3:F:87:PHE:HE1	2.22	0.52
3:F:53:PRO:HB2	3:F:55:LYS:HG3	1.91	0.52
1:G:63:MLY:HG3	1:G:64:THR:H	1.75	0.52
1:G:579:PHE:CD2	1:G:592:ILE:HD11	2.40	0.52
1:G:642:LYS:CG	4:V:22:ALA:HA	2.37	0.52
1:G:795:ARG:CD	3:I:116:GLU:OE2	2.57	0.52
2:H:114:LYS:O	2:H:147:ASN:ND2	2.41	0.52
2:K:114:LYS:O	2:K:147:ASN:ND2	2.41	0.52
3:L:110:VAL:HG13	3:L:114:LEU:HD12	1.91	0.52
1:P:63:MLY:HG3	1:P:64:THR:H	1.75	0.52
4:V:180:LEU:HD22	4:V:267:ILE:HD11	1.92	0.52
4:V:185:LEU:HD23	4:V:306:TYR:OH	2.09	0.52
1:A:93:MET:HE2	1:A:715:VAL:CG2	2.38	0.52
1:A:555:TYR:N	4:V:48:GLY:N	2.58	0.52
1:A:640:LYS:C	1:A:645:SER:HG	2.13	0.52
1:D:214:MET:C	1:D:340:ILE:CD1	2.82	0.52
1:D:538:GLU:HG3	4:9:352:PHE:CA	2.38	0.52
1:D:636:LYS:HB2	4:9:334:GLU:OE1	2.09	0.52
1:D:765:VAL:HG12	1:D:766:PHE:N	2.22	0.52
2:E:130:PRO:O	2:E:131:GLU:C	2.52	0.52
1:G:584:TYR:CD1	1:G:585:ALA:N	2.77	0.52
1:G:732:ILE:H	1:G:733:PRO:HD2	1.73	0.52
1:G:769:ALA:HB3	1:G:770:GLY:N	2.04	0.52
1:J:135:TYR:CD2	1:J:191:ARG:HG2	2.44	0.52
1:J:796:GLY:N	3:L:35:ARG:NE	2.57	0.52
1:J:829:TRP:HZ3	2:K:84:PHE:CE2	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:197:ALA:O	1:P:201:ALA:HB2	2.10	0.52
3:R:53:PRO:HB2	3:R:55:LYS:HG3	1.91	0.52
4:0:205:GLU:HB2	4:Y:287:ILE:HD13	1.91	0.52
4:1:180:LEU:HD22	4:1:267:ILE:HD11	1.92	0.52
4:9:185:LEU:HD23	4:9:306:TYR:OH	2.09	0.52
4:W:185:LEU:HD23	4:W:306:TYR:OH	2.09	0.52
4:W:285:CYS:O	4:W:290:ARG:NH1	2.43	0.52
1:A:636:LYS:HB2	4:8:334:GLU:OE1	2.08	0.52
1:A:838:ILE:C	1:A:840:PRO:HD2	2.35	0.52
1:D:795:ARG:CB	3:F:35:ARG:NH2	2.65	0.52
1:G:530:MET:HG2	4:V:354:GLN:HB2	0.57	0.52
3:I:53:PRO:HB2	3:I:55:LYS:HG3	1.91	0.52
1:J:42:HIS:HB3	1:J:45:GLN:O	2.09	0.52
3:L:104:GLY:HA2	3:L:137:ILE:HD11	1.92	0.52
1:P:506:GLU:CG	1:P:760:PHE:N	2.72	0.52
1:P:821:ARG:HH22	2:Q:127:ARG:CD	2.21	0.52
4:0:180:LEU:HD22	4:0:267:ILE:HD11	1.92	0.52
4:3:180:LEU:HD22	4:3:267:ILE:HD11	1.92	0.52
4:3:285:CYS:O	4:3:290:ARG:NH1	2.43	0.52
4:4:180:LEU:HD22	4:4:267:ILE:HD11	1.92	0.52
4:5:285:CYS:O	4:5:290:ARG:NH1	2.43	0.52
4:9:285:CYS:O	4:9:290:ARG:NH1	2.43	0.52
4:9:287:ILE:HG22	4:W:204:ALA:HB3	1.91	0.52
4:Z:180:LEU:HD22	4:Z:267:ILE:HD11	1.92	0.52
4:Z:185:LEU:HD23	4:Z:306:TYR:OH	2.09	0.52
4:Z:285:CYS:O	4:Z:290:ARG:NH1	2.43	0.52
1:A:63:MLY:HG3	1:A:64:THR:H	1.75	0.52
1:A:109:ARG:HD3	1:A:117:THR:HB	1.92	0.52
1:A:154:HIS:CE1	1:A:156:PHE:HD2	2.27	0.52
1:A:404:PRO:HG3	1:A:417:GLU:HG3	1.91	0.52
3:C:53:PRO:HB2	3:C:55:LYS:HG3	1.91	0.52
1:D:712:PRO:CA	1:D:771:LEU:HD22	2.39	0.52
1:G:40:VAL:HG13	1:G:41:VAL:O	2.10	0.52
1:G:42:HIS:HB3	1:G:45:GLN:O	2.09	0.52
1:G:109:ARG:HD3	1:G:117:THR:HB	1.92	0.52
1:G:135:TYR:CD2	1:G:191:ARG:HG2	2.44	0.52
1:G:404:PRO:HG3	1:G:417:GLU:HG3	1.91	0.52
1:G:732:ILE:HG23	1:G:747:LEU:CD1	1.04	0.52
1:G:753:VAL:HA	1:G:780:ASP:CG	2.24	0.52
1:G:759:ALA:O	1:G:766:PHE:N	2.32	0.52
1:J:98:HIS:HB3	1:J:100:PRO:CD	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:156:PHE:HD1	1:J:195:TYR:CD1	2.27	0.52
1:J:612:GLN:HE22	1:J:627:GLY:HA2	1.66	0.52
1:P:544:LYS:NZ	4:2:45:VAL:HG22	2.23	0.52
1:P:636:LYS:HB2	4:0:334:GLU:OE1	2.09	0.52
1:P:661:MET:O	1:P:665:ARG:HG3	2.09	0.52
2:Q:129:THR:O	2:Q:133:ILE:HG13	2.09	0.52
3:R:104:GLY:HA2	3:R:137:ILE:HD11	1.92	0.52
4:1:203:THR:HG23	4:Z:288:ASP:OD1	2.09	0.52
4:1:287:ILE:C	4:3:203:THR:HG22	2.35	0.52
4:5:180:LEU:HD22	4:5:267:ILE:HD11	1.92	0.52
4:8:180:LEU:HD22	4:8:267:ILE:HD11	1.92	0.52
4:V:285:CYS:O	4:V:290:ARG:NH1	2.43	0.52
4:Y:180:LEU:HD22	4:Y:267:ILE:HD11	1.92	0.52
1:A:251:ARG:HB2	1:A:264:ASP:HB2	1.91	0.52
1:A:556:ASP:HB3	4:V:43:VAL:HG12	1.91	0.52
1:D:538:GLU:HA	4:9:349:LEU:CB	2.40	0.52
2:E:114:LYS:O	2:E:147:ASN:ND2	2.41	0.52
2:E:114:LYS:N	2:E:146:GLY:O	2.40	0.52
1:G:41:VAL:HG13	1:G:42:HIS:N	2.25	0.52
1:G:154:HIS:CE1	1:G:156:PHE:HD2	2.27	0.52
1:J:838:ILE:C	1:J:840:PRO:HD2	2.35	0.52
2:K:114:LYS:HA	2:K:147:ASN:HD22	1.74	0.52
1:P:40:VAL:HG13	1:P:41:VAL:O	2.10	0.52
1:P:214:MET:C	1:P:340:ILE:CD1	2.82	0.52
1:P:355:THR:OG1	1:P:437:MET:HE1	2.10	0.52
1:P:491:PHE:HD1	1:P:671:PHE:CE2	2.27	0.52
4:0:287:ILE:CG2	4:2:203:THR:HG21	2.33	0.52
4:4:285:CYS:O	4:4:290:ARG:NH1	2.43	0.52
4:9:180:LEU:HD22	4:9:267:ILE:HD11	1.92	0.52
4:W:180:LEU:HD22	4:W:267:ILE:HD11	1.92	0.52
4:X:285:CYS:O	4:X:290:ARG:NH1	2.43	0.52
1:A:491:PHE:HD1	1:A:671:PHE:CE2	2.27	0.52
1:A:752:ASP:CB	1:A:782:MLY:HD3	2.40	0.52
1:A:753:VAL:CB	1:A:775:LEU:HG	2.30	0.52
2:B:114:LYS:HA	2:B:147:ASN:HD22	1.75	0.52
1:D:156:PHE:HD1	1:D:195:TYR:CD1	2.28	0.52
1:D:491:PHE:HD1	1:D:671:PHE:CE2	2.27	0.52
1:D:634:GLY:N	4:9:25:ASP:O	2.31	0.52
1:D:725:ARG:O	1:D:729:ALA:HA	2.10	0.52
1:G:128:PRO:O	1:G:129:TYR:HB2	2.09	0.52
1:G:481:ASN:N	1:G:481:ASN:ND2	2.51	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:104:GLY:HA2	3:I:137:ILE:HD11	1.92	0.52
1:J:41:VAL:HG13	1:J:42:HIS:N	2.25	0.52
1:J:214:MET:C	1:J:340:ILE:CD1	2.82	0.52
1:J:530:MET:HG2	4:W:354:GLN:HB2	0.57	0.52
2:K:121:LEU:CA	2:K:128:PHE:CG	2.89	0.52
1:P:819:ASN:N	2:Q:90:GLY:O	2.41	0.52
3:R:110:VAL:HG13	3:R:114:LEU:HD12	1.92	0.52
4:0:205:GLU:HG3	4:Y:287:ILE:HD13	1.88	0.52
4:2:285:CYS:O	4:2:290:ARG:NH1	2.43	0.52
4:8:287:ILE:HG22	4:V:204:ALA:HB3	1.91	0.52
4:X:180:LEU:HD22	4:X:267:ILE:HD11	1.92	0.52
1:A:494:HIS:O	1:A:498:LEU:HB2	2.09	0.52
1:A:642:LYS:CG	4:8:22:ALA:HA	2.38	0.52
1:A:799:MET:SD	3:C:32:ASP:CG	2.89	0.52
1:D:506:GLU:O	1:D:763:THR:N	2.43	0.52
1:D:643:GLY:N	4:9:23:GLY:C	2.55	0.52
1:D:732:ILE:HG23	1:D:747:LEU:CD1	1.04	0.52
1:D:795:ARG:CZ	3:F:116:GLU:OE1	2.56	0.52
1:G:156:PHE:HD1	1:G:195:TYR:CD1	2.27	0.52
1:G:491:PHE:HD1	1:G:671:PHE:CE2	2.27	0.52
1:G:529:PRO:HB2	4:V:354:GLN:HA	1.92	0.52
2:H:129:THR:O	2:H:133:ILE:HG13	2.09	0.52
1:J:725:ARG:O	1:J:729:ALA:HA	2.10	0.52
1:J:795:ARG:CD	3:L:43:ASN:H	2.23	0.52
1:P:42:HIS:HB3	1:P:45:GLN:O	2.09	0.52
1:P:289:TYR:OH	1:P:315:VAL:O	2.27	0.52
1:P:503:TYR:HH	1:P:711:PHE:HD2	0.56	0.52
1:P:733:PRO:HB2	3:R:93:VAL:HG21	1.91	0.52
1:P:831:TRP:HE1	2:Q:67:MET:CB	2.15	0.52
4:1:185:LEU:HD23	4:1:306:TYR:OH	2.09	0.52
1:A:218:LEU:CD2	1:A:222:ILE:CG1	2.85	0.52
1:A:837:MLY:CH2	2:H:20:ASP:CA	2.78	0.52
1:D:195:TYR:CE2	1:D:199:ILE:CD1	2.93	0.52
1:D:251:ARG:HB2	1:D:264:ASP:HB2	1.91	0.52
1:D:725:ARG:HG3	1:D:733:PRO:CA	2.36	0.52
1:D:732:ILE:CD1	1:D:782:MLY:HH21	2.37	0.52
1:G:197:ALA:O	1:G:201:ALA:HB2	2.09	0.52
1:G:816:ILE:HD11	2:H:100:ALA:CB	2.40	0.52
1:J:40:VAL:HG13	1:J:41:VAL:O	2.10	0.52
1:J:128:PRO:O	1:J:129:TYR:HB2	2.09	0.52
1:J:636:LYS:HB2	4:W:334:GLU:OE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:732:ILE:HG23	1:J:747:LEU:CD1	1.05	0.52
1:J:830:PRO:CG	2:K:67:MET:HE2	2.40	0.52
1:P:22:LYS:O	1:P:26:GLU:N	2.30	0.52
1:P:98:HIS:HB3	1:P:100:PRO:CD	2.25	0.52
1:P:783:LEU:C	1:P:786:ILE:HG13	2.35	0.52
1:P:818:TYR:CZ	2:Q:127:ARG:CZ	2.84	0.52
4:1:285:CYS:O	4:1:290:ARG:NH1	2.43	0.52
4:3:287:ILE:HG22	4:5:204:ALA:HB3	1.91	0.52
4:Y:285:CYS:O	4:Y:290:ARG:NH1	2.43	0.52
1:A:292:MET:HE2	1:A:309:PRO:HD3	1.92	0.52
1:A:538:GLU:HA	4:8:349:LEU:CB	2.39	0.52
1:A:578:HIS:O	1:A:579:PHE:HB3	2.10	0.52
1:D:40:VAL:HG13	1:D:41:VAL:O	2.10	0.52
1:D:41:VAL:HG21	1:D:76:GLN:HG3	1.92	0.52
1:D:221:GLN:HB2	1:D:449:LEU:HD11	1.92	0.52
1:D:355:THR:OG1	1:D:437:MET:HE1	2.10	0.52
1:D:508:ILE:CA	1:D:761:GLY:HA3	2.36	0.52
2:E:114:LYS:HA	2:E:147:ASN:HD22	1.74	0.52
1:G:221:GLN:HB2	1:G:449:LEU:HD11	1.92	0.52
1:G:494:HIS:O	1:G:498:LEU:HB2	2.09	0.52
1:G:629:GLU:CA	1:G:643:GLY:C	2.73	0.52
1:G:823:PHE:HE1	2:H:160:GLY:CA	2.23	0.52
1:J:154:HIS:CE1	1:J:156:PHE:HD2	2.26	0.52
1:J:221:GLN:HB2	1:J:449:LEU:HD11	1.92	0.52
1:J:232:PHE:CE1	1:J:287:ILE:HD13	2.44	0.52
1:J:355:THR:OG1	1:J:437:MET:HE1	2.09	0.52
1:J:491:PHE:HD1	1:J:671:PHE:CE2	2.27	0.52
1:P:195:TYR:CE2	1:P:199:ILE:CD1	2.93	0.52
1:P:232:PHE:CE1	1:P:287:ILE:HD13	2.44	0.52
2:Q:121:LEU:CA	2:Q:128:PHE:CG	2.89	0.52
1:A:40:VAL:HG13	1:A:41:VAL:O	2.10	0.51
1:A:135:TYR:HD2	1:A:191:ARG:CD	2.23	0.51
1:A:214:MET:C	1:A:340:ILE:CD1	2.82	0.51
1:A:408:VAL:CG1	4:8:332:PRO:HB3	2.40	0.51
1:D:63:MLY:HG3	1:D:64:THR:H	1.75	0.51
1:D:109:ARG:HD3	1:D:117:THR:HB	1.92	0.51
1:G:813:ILE:HG22	2:H:128:PHE:CE1	2.44	0.51
2:H:114:LYS:N	2:H:146:GLY:O	2.40	0.51
1:J:63:MLY:HG3	1:J:64:THR:H	1.75	0.51
1:J:135:TYR:HD2	1:J:191:ARG:CD	2.23	0.51
1:J:791:GLN:OE1	3:L:116:GLU:CG	2.55	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:139:ALA:C	2:K:141:PRO:HD3	2.33	0.51
1:P:84:MLY:CD	1:P:724:TYR:CZ	2.90	0.51
4:2:180:LEU:HD22	4:2:267:ILE:HD11	1.92	0.51
4:7:287:ILE:HG22	4:9:204:ALA:HB3	1.91	0.51
1:A:530:MET:HG2	4:8:354:GLN:HB2	0.57	0.51
1:D:481:ASN:N	1:D:481:ASN:ND2	2.51	0.51
1:D:553:MLY:CE	4:W:45:VAL:CA	2.49	0.51
1:D:742:LYS:O	1:D:745:GLU:HB2	2.10	0.51
1:D:800:ARG:HH22	3:F:40:ASN:CG	1.89	0.51
2:E:112:ILE:HG23	2:E:147:ASN:HB3	1.93	0.51
3:F:100:GLY:O	3:F:138:ASN:HA	2.11	0.51
3:F:110:VAL:HG13	3:F:114:LEU:HD12	1.91	0.51
1:J:195:TYR:CE2	1:J:199:ILE:CD1	2.93	0.51
1:J:538:GLU:HA	4:W:349:LEU:CB	2.40	0.51
1:P:221:GLN:HB2	1:P:449:LEU:HD11	1.92	0.51
1:P:248:MLY:N	1:P:463:ASP:O	2.44	0.51
1:P:494:HIS:O	1:P:498:LEU:HB2	2.09	0.51
1:P:640:LYS:CA	1:P:645:SER:OG	2.58	0.51
2:Q:114:LYS:HA	2:Q:147:ASN:HD22	1.74	0.51
4:0:285:CYS:O	4:0:290:ARG:NH1	2.43	0.51
4:7:285:CYS:O	4:7:290:ARG:NH1	2.43	0.51
1:A:232:PHE:CE1	1:A:287:ILE:HD13	2.44	0.51
1:A:725:ARG:O	1:A:729:ALA:HA	2.10	0.51
1:A:742:LYS:O	1:A:745:GLU:HB2	2.10	0.51
1:A:797:PHE:CD1	3:C:149:VAL:CG1	2.93	0.51
1:D:555:TYR:N	4:W:48:GLY:N	2.58	0.51
1:D:800:ARG:HD3	3:F:149:VAL:C	2.35	0.51
3:F:104:GLY:HA2	3:F:137:ILE:HD11	1.92	0.51
1:G:578:HIS:O	1:G:579:PHE:HB3	2.10	0.51
1:G:834:LEU:HD22	2:H:34:ILE:HD11	1.92	0.51
2:H:137:TRP:CA	2:H:145:ALA:CB	2.82	0.51
1:J:83:PRO:C	1:J:723:ARG:NH2	2.68	0.51
1:J:248:MLY:N	1:J:463:ASP:O	2.44	0.51
1:J:640:LYS:CA	1:J:645:SER:OG	2.58	0.51
1:J:649:VAL:HA	1:J:649:VAL:HG23	1.83	0.51
4:8:285:CYS:O	4:8:290:ARG:NH1	2.43	0.51
1:A:221:GLN:HB2	1:A:449:LEU:HD11	1.92	0.51
1:A:797:PHE:CE1	3:C:149:VAL:HG12	2.46	0.51
1:D:248:MLY:N	1:D:463:ASP:O	2.44	0.51
1:D:507:GLY:O	1:D:761:GLY:HA3	2.06	0.51
1:G:195:TYR:CE2	1:G:199:ILE:CD1	2.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:538:GLU:HA	4:V:349:LEU:CB	2.40	0.51
1:G:546:THR:CG2	1:G:548:THR:HB	2.41	0.51
1:G:817:GLN:CB	2:H:127:ARG:HD2	2.40	0.51
1:J:494:HIS:O	1:J:498:LEU:HB2	2.09	0.51
1:J:553:MLY:CE	4:Y:45:VAL:HG11	2.32	0.51
1:J:629:GLU:HG2	1:J:643:GLY:C	2.35	0.51
1:J:804:ARG:HH22	3:L:149:VAL:HA	1.73	0.51
1:P:93:MET:SD	1:P:715:VAL:CA	2.91	0.51
1:P:629:GLU:HG2	1:P:643:GLY:C	2.35	0.51
1:P:799:MET:HG3	3:R:35:ARG:HD2	1.91	0.51
1:A:195:TYR:CE2	1:A:199:ILE:CD1	2.93	0.51
1:A:248:MLY:N	1:A:463:ASP:O	2.44	0.51
1:A:546:THR:CG2	1:A:548:THR:HB	2.41	0.51
1:A:592:ILE:O	1:A:592:ILE:HG22	2.11	0.51
1:D:41:VAL:HG13	1:D:42:HIS:N	2.25	0.51
1:D:197:ALA:O	1:D:201:ALA:HB2	2.09	0.51
1:D:232:PHE:CE1	1:D:287:ILE:HD13	2.45	0.51
1:G:214:MET:C	1:G:340:ILE:CD1	2.82	0.51
1:G:232:PHE:CE1	1:G:287:ILE:HD13	2.45	0.51
1:G:292:MET:HE2	1:G:309:PRO:HD3	1.93	0.51
1:G:418:THR:O	1:G:422:VAL:HG23	2.11	0.51
1:J:134:VAL:C	1:J:136:ASN:H	2.16	0.51
1:J:418:THR:O	1:J:422:VAL:HG23	2.11	0.51
1:J:687:GLU:O	1:J:691:VAL:HG23	2.11	0.51
1:J:732:ILE:H	1:J:733:PRO:HD2	1.74	0.51
1:J:795:ARG:HH21	3:L:116:GLU:HG2	1.74	0.51
1:P:212:GLY:O	1:P:213:LYS:HB2	2.11	0.51
1:P:742:LYS:O	1:P:745:GLU:HB2	2.10	0.51
2:Q:112:ILE:HG23	2:Q:147:ASN:HB3	1.93	0.51
1:A:38:VAL:CG1	1:A:39:PHE:N	2.74	0.51
1:A:732:ILE:H	1:A:733:PRO:CD	2.23	0.51
1:A:752:ASP:OD2	1:A:782:MLY:HG2	2.11	0.51
1:A:837:MLY:CH2	2:H:20:ASP:CB	2.81	0.51
3:C:100:GLY:O	3:C:138:ASN:HA	2.11	0.51
1:D:411:GLU:H	4:9:333:PRO:CG	2.24	0.51
1:D:592:ILE:O	1:D:592:ILE:HG22	2.10	0.51
1:D:793:ARG:CZ	3:F:87:PHE:CE1	2.93	0.51
1:G:41:VAL:HG21	1:G:76:GLN:HG3	1.92	0.51
1:G:148:ARG:HH21	1:G:764:MLY:CH2	2.17	0.51
1:G:311:ASP:HB2	1:G:312:TYR:CE1	2.46	0.51
3:I:110:VAL:HG13	3:I:114:LEU:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:212:GLY:O	1:J:213:LYS:HB2	2.11	0.51
1:J:592:ILE:HG22	1:J:592:ILE:O	2.10	0.51
1:P:84:MLY:HD3	1:P:723:ARG:HD3	1.93	0.51
1:P:128:PRO:O	1:P:129:TYR:HB2	2.10	0.51
1:P:732:ILE:HG23	1:P:747:LEU:CD1	1.05	0.51
4:1:45:VAL:CG2	4:Z:148:THR:OG1	2.59	0.51
1:A:418:THR:O	1:A:422:VAL:HG23	2.11	0.51
2:B:137:TRP:CA	2:B:145:ALA:CB	2.82	0.51
1:D:629:GLU:HG2	1:D:643:GLY:C	2.35	0.51
2:E:121:LEU:CA	2:E:128:PHE:CG	2.89	0.51
1:G:248:MLY:N	1:G:463:ASP:O	2.44	0.51
1:G:267:THR:HG21	1:G:438:PHE:HE2	1.76	0.51
1:G:400:ALA:HB1	1:G:606:THR:HG22	1.93	0.51
1:G:411:GLU:H	4:V:333:PRO:CG	2.24	0.51
1:G:675:ILE:CG2	1:G:676:ILE:N	2.74	0.51
1:P:135:TYR:HD2	1:P:191:ARG:CD	2.23	0.51
1:P:418:THR:O	1:P:422:VAL:HG23	2.11	0.51
4:1:202:THR:C	4:Z:287:ILE:CG2	2.79	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:400:ALA:HB1	1:A:606:THR:HG22	1.92	0.51
2:B:129:THR:O	2:B:133:ILE:HG13	2.09	0.51
1:D:135:TYR:HD2	1:D:191:ARG:CD	2.23	0.51
1:D:237:THR:O	1:D:240:ASN:O	2.29	0.51
1:D:400:ALA:HB1	1:D:606:THR:HG22	1.92	0.51
1:D:507:GLY:C	1:D:762:HIS:H	2.19	0.51
1:D:732:ILE:HD12	1:D:782:MLY:CH1	2.41	0.51
1:G:38:VAL:CG1	1:G:39:PHE:N	2.74	0.51
1:G:742:LYS:O	1:G:745:GLU:HB2	2.10	0.51
1:G:797:PHE:CD2	3:I:126:LEU:HD13	2.46	0.51
1:J:41:VAL:HG21	1:J:76:GLN:HG3	1.93	0.51
1:J:819:ASN:HA	2:K:90:GLY:C	2.21	0.51
4:0:110:LEU:O	4:1:195:GLU:CG	2.59	0.51
1:A:642:LYS:HA	4:8:21:PHE:C	2.36	0.51
1:A:675:ILE:CG2	1:A:676:ILE:N	2.74	0.51
1:A:752:ASP:O	1:A:778:MET:CB	2.58	0.51
1:G:813:ILE:HG23	2:H:128:PHE:CE1	2.26	0.51
1:G:817:GLN:HE21	2:H:127:ARG:HB2	1.71	0.51
1:G:818:TYR:HE1	2:H:127:ARG:NH2	1.95	0.51
1:G:831:TRP:CZ3	2:H:34:ILE:HD13	2.46	0.51
1:J:202:SER:HB2	1:J:207:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:578:HIS:O	1:J:579:PHE:HB3	2.11	0.51
1:J:732:ILE:O	1:J:736:GLN:HG3	2.11	0.51
1:J:795:ARG:CG	3:L:116:GLU:OE2	2.58	0.51
2:K:114:LYS:N	2:K:146:GLY:O	2.40	0.51
1:P:278:GLN:HG3	1:P:318:GLY:H	1.75	0.51
1:P:400:ALA:HB1	1:P:606:THR:HG22	1.93	0.51
4:0:287:ILE:HG12	4:2:203:THR:HB	1.93	0.51
1:A:646:PHE:CE2	1:A:652:LEU:CD2	2.87	0.51
1:D:202:SER:HB2	1:D:207:LYS:NZ	2.26	0.51
1:D:212:GLY:O	1:D:213:LYS:HB2	2.10	0.51
1:D:530:MET:HG2	4:9:354:GLN:HB2	0.57	0.51
1:D:687:GLU:O	1:D:691:VAL:HG23	2.11	0.51
1:G:84:MLY:CH2	1:G:724:TYR:CE2	2.87	0.51
1:G:212:GLY:O	1:G:213:LYS:HB2	2.11	0.51
1:G:429:LEU:O	1:G:433:VAL:HG23	2.11	0.51
1:G:642:LYS:HA	4:V:21:PHE:C	2.36	0.51
1:G:725:ARG:O	1:G:729:ALA:HA	2.10	0.51
1:J:642:LYS:HB2	4:W:24:ASP:O	1.88	0.51
1:P:107:MLY:CB	1:P:686:MET:HE2	2.32	0.51
1:P:448:GLN:C	1:P:450:ASP:H	2.19	0.51
1:P:592:ILE:HG22	1:P:592:ILE:O	2.10	0.51
1:P:725:ARG:O	1:P:729:ALA:HA	2.10	0.51
4:X:324:THR:HG21	4:Z:247:VAL:HG23	1.89	0.51
1:A:134:VAL:C	1:A:136:ASN:H	2.16	0.50
1:A:197:ALA:O	1:A:201:ALA:HB2	2.10	0.50
1:A:311:ASP:HB2	1:A:312:TYR:CE1	2.46	0.50
1:A:687:GLU:O	1:A:691:VAL:HG23	2.11	0.50
2:B:139:ALA:C	2:B:141:PRO:HD3	2.33	0.50
1:D:732:ILE:H	1:D:733:PRO:CD	2.22	0.50
1:D:733:PRO:CA	1:D:737:PHE:CE1	2.94	0.50
1:G:89:GLU:CD	1:G:153:PRO:HD2	2.36	0.50
1:G:218:LEU:N	1:G:221:GLN:CG	2.74	0.50
1:G:739:ASP:CB	1:G:742:LYS:CB	2.81	0.50
1:G:838:ILE:HD13	2:H:33:VAL:HG11	1.93	0.50
3:I:100:GLY:O	3:I:138:ASN:HA	2.11	0.50
1:J:93:MET:HA	1:J:714:ARG:N	2.25	0.50
1:J:109:ARG:HD3	1:J:117:THR:HB	1.92	0.50
1:J:278:GLN:HG3	1:J:318:GLY:H	1.75	0.50
1:J:408:VAL:CG1	4:W:332:PRO:HB3	2.40	0.50
1:J:642:LYS:HA	4:W:21:PHE:C	2.36	0.50
1:J:742:LYS:O	1:J:745:GLU:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:89:GLU:CD	1:P:153:PRO:HD2	2.36	0.50
1:P:237:THR:O	1:P:240:ASN:O	2.29	0.50
1:P:408:VAL:CG1	4:O:332:PRO:HB3	2.40	0.50
1:P:578:HIS:O	1:P:579:PHE:HB3	2.11	0.50
1:P:759:ALA:O	1:P:766:PHE:N	2.32	0.50
3:R:100:GLY:O	3:R:138:ASN:HA	2.11	0.50
1:A:640:LYS:CA	1:A:645:SER:OG	2.58	0.50
1:D:38:VAL:CG1	1:D:39:PHE:N	2.74	0.50
1:D:218:LEU:N	1:D:221:GLN:CG	2.74	0.50
1:D:767:PHE:O	1:D:771:LEU:CD2	2.60	0.50
2:E:117:LEU:HG	2:E:147:ASN:HB3	1.93	0.50
1:G:28:GLN:CB	1:G:723:ARG:HH22	2.24	0.50
1:G:202:SER:HB2	1:G:207:LYS:NZ	2.26	0.50
1:G:237:THR:O	1:G:240:ASN:O	2.29	0.50
1:G:795:ARG:HG3	3:I:116:GLU:OE2	2.10	0.50
1:J:218:LEU:N	1:J:221:GLN:CG	2.74	0.50
1:J:629:GLU:CB	1:J:645:SER:N	2.73	0.50
1:J:646:PHE:HE2	1:J:652:LEU:CG	2.25	0.50
1:J:829:TRP:CH2	2:K:84:PHE:CE1	2.98	0.50
1:P:41:VAL:HG13	1:P:42:HIS:N	2.25	0.50
1:P:94:MET:C	1:P:713:SER:HB3	2.31	0.50
1:P:732:ILE:H	1:P:733:PRO:CD	2.23	0.50
1:A:707:CYS:SG	1:A:714:ARG:CZ	2.99	0.50
1:A:823:PHE:HE1	2:B:161:GLU:N	2.10	0.50
2:B:117:LEU:HG	2:B:147:ASN:HB3	1.93	0.50
1:D:128:PRO:O	1:D:129:TYR:HB2	2.09	0.50
1:D:278:GLN:HG3	1:D:318:GLY:H	1.75	0.50
1:D:546:THR:CG2	1:D:548:THR:HB	2.41	0.50
1:D:642:LYS:HA	4:9:21:PHE:C	2.36	0.50
1:D:793:ARG:NH2	3:F:87:PHE:HE1	2.09	0.50
1:G:640:LYS:C	1:G:645:SER:HG	2.17	0.50
1:G:640:LYS:CA	1:G:645:SER:OG	2.58	0.50
1:J:237:THR:O	1:J:240:ASN:O	2.29	0.50
1:J:311:ASP:HB2	1:J:312:TYR:CE1	2.46	0.50
1:J:346:ASP:O	1:J:349:THR:HB	2.11	0.50
1:J:411:GLU:H	4:W:333:PRO:CG	2.25	0.50
1:P:292:MET:HE2	1:P:309:PRO:HD3	1.93	0.50
1:P:429:LEU:O	1:P:433:VAL:HG23	2.12	0.50
1:P:649:VAL:HA	1:P:649:VAL:HG23	1.83	0.50
1:P:799:MET:HB3	3:R:35:ARG:CB	2.41	0.50
4:W:285:CYS:O	4:Y:202:THR:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:VAL:HG21	1:A:76:GLN:HG3	1.92	0.50
1:A:629:GLU:CB	1:A:645:SER:N	2.74	0.50
1:D:418:THR:O	1:D:422:VAL:HG23	2.11	0.50
1:D:578:HIS:O	1:D:579:PHE:HB3	2.11	0.50
1:G:135:TYR:HD2	1:G:191:ARG:CD	2.23	0.50
1:G:538:GLU:OE1	4:V:351:THR:HB	2.12	0.50
1:G:733:PRO:CA	1:G:737:PHE:CE1	2.95	0.50
1:G:753:VAL:O	1:G:779:ARG:HD3	2.04	0.50
1:G:754:ASP:C	1:G:776:GLU:OE2	2.54	0.50
1:G:817:GLN:HB3	2:H:127:ARG:HH11	1.77	0.50
2:H:112:ILE:HG23	2:H:147:ASN:HB3	1.93	0.50
1:J:89:GLU:CD	1:J:153:PRO:HD2	2.36	0.50
1:J:154:HIS:CD2	1:J:155:ILE:H	2.30	0.50
3:L:100:GLY:O	3:L:138:ASN:HA	2.11	0.50
1:P:41:VAL:HG21	1:P:76:GLN:HG3	1.93	0.50
1:P:154:HIS:CD2	1:P:155:ILE:H	2.30	0.50
1:P:202:SER:HB2	1:P:207:LYS:NZ	2.26	0.50
1:P:546:THR:CG2	1:P:548:THR:HB	2.41	0.50
1:P:632:GLY:HA3	1:P:643:GLY:N	2.17	0.50
1:P:642:LYS:HA	4:0:21:PHE:C	2.35	0.50
4:8:325:MET:HE2	4:V:244:ASP:HB3	1.94	0.50
1:A:267:THR:HG21	1:A:438:PHE:HE2	1.76	0.50
1:A:813:ILE:HD13	2:B:128:PHE:CE1	2.47	0.50
1:D:154:HIS:CD2	1:D:155:ILE:H	2.30	0.50
1:D:311:ASP:HB2	1:D:312:TYR:CE1	2.46	0.50
1:D:346:ASP:O	1:D:349:THR:HB	2.11	0.50
1:D:429:LEU:O	1:D:433:VAL:HG23	2.11	0.50
1:D:819:ASN:HD22	2:E:90:GLY:C	1.99	0.50
1:G:592:ILE:HG22	1:G:592:ILE:O	2.10	0.50
1:G:687:GLU:O	1:G:691:VAL:HG23	2.11	0.50
1:J:400:ALA:HB1	1:J:606:THR:HG22	1.93	0.50
1:P:506:GLU:CG	1:P:760:PHE:H	2.24	0.50
1:P:538:GLU:HA	4:0:349:LEU:CB	2.40	0.50
1:P:629:GLU:CB	1:P:645:SER:N	2.74	0.50
1:P:642:LYS:CG	4:0:22:ALA:HA	2.37	0.50
1:P:687:GLU:O	1:P:691:VAL:HG23	2.11	0.50
1:A:202:SER:HB2	1:A:207:LYS:NZ	2.26	0.50
1:A:218:LEU:N	1:A:221:GLN:CG	2.74	0.50
1:D:292:MET:HE2	1:D:309:PRO:HD3	1.93	0.50
1:D:640:LYS:CA	1:D:645:SER:OG	2.58	0.50
1:D:646:PHE:HE2	1:D:652:LEU:CG	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:715:VAL:O	1:D:764:MLY:HB3	2.12	0.50
1:D:724:TYR:CA	1:D:782:MLY:CE	2.87	0.50
1:G:448:GLN:C	1:G:450:ASP:H	2.19	0.50
1:G:732:ILE:O	1:G:736:GLN:HG3	2.12	0.50
1:J:292:MET:HE2	1:J:309:PRO:HD3	1.93	0.50
1:J:429:LEU:O	1:J:433:VAL:HG23	2.12	0.50
1:J:448:GLN:C	1:J:450:ASP:H	2.19	0.50
1:P:169:ASP:N	1:P:169:ASP:OD1	2.44	0.50
1:P:411:GLU:H	4:0:333:PRO:CG	2.24	0.50
1:P:530:MET:HG2	4:0:354:GLN:HB2	0.57	0.50
4:0:202:THR:HG23	4:Y:287:ILE:N	1.96	0.50
1:A:212:GLY:O	1:A:213:LYS:HB2	2.10	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:629:GLU:HG2	1:A:643:GLY:C	2.35	0.50
1:A:839:MLY:HB2	1:A:840:PRO:HD3	1.94	0.50
1:D:632:GLY:HA3	1:D:643:GLY:N	2.17	0.50
1:D:713:SER:N	1:D:771:LEU:HD23	1.86	0.50
1:D:747:LEU:CD2	1:D:782:MLY:HH11	2.39	0.50
1:G:346:ASP:O	1:G:349:THR:HB	2.11	0.50
1:G:838:ILE:HD13	2:H:33:VAL:CG1	2.41	0.50
1:J:169:ASP:N	1:J:169:ASP:OD1	2.44	0.50
1:J:733:PRO:CA	1:J:737:PHE:CE1	2.95	0.50
1:P:218:LEU:N	1:P:221:GLN:CG	2.74	0.50
1:P:730:SER:O	3:R:93:VAL:CG2	2.60	0.50
1:P:733:PRO:CA	1:P:737:PHE:CE1	2.94	0.50
1:P:817:GLN:CD	2:Q:127:ARG:CG	2.85	0.50
4:0:287:ILE:HG22	4:2:203:THR:CG2	2.28	0.50
1:A:154:HIS:CD2	1:A:155:ILE:H	2.30	0.50
1:A:237:THR:O	1:A:240:ASN:O	2.29	0.50
1:A:448:GLN:C	1:A:450:ASP:H	2.19	0.50
1:A:629:GLU:CA	1:A:643:GLY:C	2.73	0.50
1:D:291:ILE:HA	1:D:331:LEU:CD1	2.39	0.50
1:D:471:ASP:HB3	1:D:573:GLY:O	2.12	0.50
1:D:538:GLU:OE1	4:9:351:THR:HB	2.12	0.50
1:D:762:HIS:CD2	1:D:762:HIS:N	2.78	0.50
1:G:291:ILE:HA	1:G:331:LEU:CD1	2.39	0.50
1:G:757:GLN:HB2	1:G:776:GLU:CG	2.42	0.50
1:G:798:LEU:HD22	3:I:118:MET:CG	2.42	0.50
1:J:38:VAL:CG1	1:J:39:PHE:N	2.74	0.50
1:J:93:MET:HE2	1:J:764:MLY:CD	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:546:THR:CG2	1:J:548:THR:HB	2.41	0.50
1:J:632:GLY:HA3	1:J:643:GLY:N	2.17	0.50
1:J:642:LYS:CG	4:W:22:ALA:HA	2.37	0.50
1:J:747:LEU:C	1:J:749:GLY:H	2.20	0.50
1:J:769:ALA:HB2	1:J:770:GLY:HA2	1.88	0.50
1:J:819:ASN:CB	2:K:90:GLY:O	2.57	0.50
1:P:646:PHE:HE2	1:P:652:LEU:CG	2.25	0.50
1:P:817:GLN:HG3	2:Q:128:PHE:CZ	2.47	0.50
2:Q:114:LYS:N	2:Q:146:GLY:O	2.40	0.50
2:Q:139:ALA:C	2:Q:141:PRO:HD3	2.33	0.50
4:0:202:THR:N	4:Y:287:ILE:H	2.10	0.50
4:0:243:PRO:CD	4:Y:291:LYS:HE3	2.42	0.50
4:1:287:ILE:HD13	4:3:203:THR:CA	2.41	0.50
4:1:288:ASP:CB	4:3:203:THR:CG2	2.87	0.50
1:D:109:ARG:O	1:D:114:MET:N	2.37	0.50
1:D:800:ARG:HB3	3:F:149:VAL:HG13	1.93	0.50
1:D:839:MLY:N	1:D:840:PRO:CD	2.75	0.50
1:G:471:ASP:HB3	1:G:573:GLY:O	2.12	0.50
1:G:540:CYS:C	4:V:349:LEU:HD21	2.36	0.50
1:G:715:VAL:O	1:G:764:MLY:HB3	2.12	0.50
1:G:739:ASP:OD1	1:G:740:SER:N	2.45	0.50
1:J:214:MET:HA	1:J:340:ILE:CD1	2.41	0.50
1:J:310:TYR:CE2	1:J:320:ILE:CD1	2.94	0.50
1:J:640:LYS:C	1:J:645:SER:HG	2.11	0.50
1:P:214:MET:HA	1:P:340:ILE:CD1	2.41	0.50
1:P:795:ARG:CB	3:R:42:THR:HA	2.42	0.50
1:P:799:MET:CB	3:R:35:ARG:HB3	2.42	0.50
2:Q:140:PHE:HB3	2:Q:144:VAL:HG12	1.94	0.50
4:0:287:ILE:CB	4:2:203:THR:CG2	2.90	0.50
4:7:318:THR:HA	4:7:327:ILE:HG12	1.94	0.50
4:8:70:PRO:HG3	4:8:81:ASP:HB3	1.94	0.50
1:A:411:GLU:H	4:8:333:PRO:CG	2.24	0.49
1:D:408:VAL:CG1	4:9:332:PRO:HB3	2.41	0.49
2:E:162:ASP:O	2:K:21:GLU:HB3	2.10	0.49
1:G:218:LEU:CD2	1:G:222:ILE:CG1	2.86	0.49
1:G:557:GLU:CB	4:X:47:MET:C	2.50	0.49
1:J:94:MET:O	1:J:713:SER:HA	2.12	0.49
1:J:251:ARG:O	1:J:263:ALA:HA	2.12	0.49
1:P:38:VAL:CG1	1:P:39:PHE:N	2.74	0.49
1:P:547:ASP:O	1:P:550:PHE:HB3	2.12	0.49
2:Q:93:PRO:O	2:Q:97:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:70:PRO:HG3	4:4:81:ASP:HB3	1.94	0.49
4:9:318:THR:HA	4:9:327:ILE:HG12	1.94	0.49
4:V:318:THR:HA	4:V:327:ILE:HG12	1.94	0.49
1:A:93:MET:CE	1:A:716:LEU:H	2.25	0.49
1:A:547:ASP:O	1:A:550:PHE:HB3	2.12	0.49
1:A:553:MLY:HG3	4:V:44:MET:O	2.07	0.49
1:A:733:PRO:CA	1:A:737:PHE:CE1	2.95	0.49
1:A:739:ASP:OD1	1:A:740:SER:N	2.45	0.49
1:A:839:MLY:N	1:A:840:PRO:CD	2.75	0.49
1:D:169:ASP:OD1	1:D:169:ASP:N	2.44	0.49
1:D:251:ARG:O	1:D:263:ALA:HA	2.12	0.49
1:D:332:MET:O	1:D:336:SER:OG	2.27	0.49
1:D:601:ASP:N	1:D:602:PRO:CD	2.75	0.49
1:D:732:ILE:O	1:D:736:GLN:HG3	2.12	0.49
2:E:140:PHE:HB3	2:E:144:VAL:HG12	1.94	0.49
1:G:646:PHE:CE2	1:G:652:LEU:CD2	2.87	0.49
1:G:821:ARG:HH21	2:H:127:ARG:HG2	1.64	0.49
1:J:291:ILE:HA	1:J:331:LEU:CD1	2.39	0.49
1:J:797:PHE:CE1	3:L:146:ILE:HD13	2.38	0.49
1:J:817:GLN:NE2	2:K:127:ARG:HB2	2.27	0.49
2:K:114:LYS:HG3	2:K:137:TRP:CZ2	2.48	0.49
1:P:251:ARG:O	1:P:263:ALA:HA	2.12	0.49
1:P:346:ASP:O	1:P:349:THR:HB	2.11	0.49
1:P:732:ILE:O	1:P:736:GLN:HG3	2.11	0.49
4:0:318:THR:HA	4:0:327:ILE:HG12	1.94	0.49
4:3:287:ILE:CB	4:5:204:ALA:H	2.24	0.49
4:V:322:PRO:HB3	4:X:246:GLN:HG2	1.93	0.49
4:W:318:THR:HA	4:W:327:ILE:HG12	1.94	0.49
4:X:287:ILE:CG2	4:Z:201:VAL:CG2	2.85	0.49
2:B:114:LYS:HG3	2:B:137:TRP:CZ2	2.48	0.49
1:D:89:GLU:CD	1:D:153:PRO:HD2	2.36	0.49
1:D:739:ASP:OD1	1:D:740:SER:N	2.45	0.49
1:G:553:MLY:O	4:X:46:GLY:HA3	2.12	0.49
1:G:839:MLY:HB2	1:G:840:PRO:HD3	1.94	0.49
2:H:93:PRO:O	2:H:97:ILE:HG13	2.12	0.49
1:J:192:VAL:O	1:J:195:TYR:HB3	2.13	0.49
1:J:471:ASP:HB3	1:J:573:GLY:O	2.12	0.49
1:J:543:PRO:CD	4:W:146:GLY:O	2.61	0.49
1:J:544:LYS:HD2	4:W:147:ARG:CB	2.36	0.49
1:J:715:VAL:O	1:J:764:MLY:HB3	2.12	0.49
1:J:762:HIS:CD2	1:J:762:HIS:N	2.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:839:MLY:N	1:J:840:PRO:CD	2.75	0.49
1:J:839:MLY:HB2	1:J:840:PRO:HD3	1.94	0.49
2:K:112:ILE:HG23	2:K:147:ASN:HB3	1.93	0.49
1:P:192:VAL:O	1:P:195:TYR:HB3	2.13	0.49
1:P:503:TYR:CZ	1:P:711:PHE:CE2	2.99	0.49
1:P:739:ASP:CB	1:P:742:LYS:CB	2.81	0.49
1:P:756:THR:O	1:P:758:TYR:N	2.45	0.49
4:O:166:TYR:CZ	4:2:64:ILE:HG22	2.42	0.49
4:3:318:THR:HA	4:3:327:ILE:HG12	1.94	0.49
4:8:318:THR:HA	4:8:327:ILE:HG12	1.94	0.49
4:X:70:PRO:HG3	4:X:81:ASP:HB3	1.94	0.49
4:X:318:THR:HA	4:X:327:ILE:HG12	1.94	0.49
1:A:291:ILE:HA	1:A:331:LEU:CD1	2.39	0.49
1:A:530:MET:HA	4:8:354:GLN:CD	2.11	0.49
1:A:538:GLU:OE1	4:8:351:THR:HB	2.12	0.49
1:A:543:PRO:CD	4:8:146:GLY:O	2.61	0.49
1:A:576:GLU:CG	1:A:577:ALA:N	2.43	0.49
1:A:798:LEU:HD21	3:C:126:LEU:CD1	2.39	0.49
1:A:836:PHE:CZ	2:B:159:HIS:HA	2.48	0.49
2:B:140:PHE:HB3	2:B:144:VAL:HG12	1.94	0.49
1:D:214:MET:HA	1:D:340:ILE:CD1	2.42	0.49
1:D:251:ARG:HB2	1:D:264:ASP:HB3	1.94	0.49
1:D:642:LYS:CG	4:9:22:ALA:HA	2.37	0.49
1:G:169:ASP:N	1:G:169:ASP:OD1	2.44	0.49
1:G:290:GLN:HG2	1:G:331:LEU:CA	2.43	0.49
1:G:601:ASP:N	1:G:602:PRO:CD	2.75	0.49
1:G:733:PRO:O	1:G:737:PHE:CE1	2.53	0.49
2:H:139:ALA:C	2:H:141:PRO:HD3	2.33	0.49
1:J:538:GLU:OE1	4:W:351:THR:HB	2.12	0.49
1:J:595:TRP:N	1:J:595:TRP:CD1	2.80	0.49
1:P:20:SER:HB3	1:P:23:GLU:OE1	2.13	0.49
1:P:206:LYS:HD2	1:P:217:THR:CG2	2.17	0.49
1:P:291:ILE:HA	1:P:331:LEU:CD1	2.39	0.49
1:P:797:PHE:CE2	3:R:126:LEU:HD22	2.46	0.49
4:1:318:THR:HA	4:1:327:ILE:HG12	1.94	0.49
4:2:318:THR:HA	4:2:327:ILE:HG12	1.94	0.49
4:3:70:PRO:HG3	4:3:81:ASP:HB3	1.94	0.49
4:8:124:PHE:CZ	4:8:132:MET:HG3	2.48	0.49
4:V:70:PRO:HG3	4:V:81:ASP:HB3	1.94	0.49
4:Y:318:THR:HA	4:Y:327:ILE:HG12	1.94	0.49
1:A:20:SER:HB3	1:A:23:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:GLU:CD	1:A:153:PRO:HD2	2.36	0.49
1:A:505:MLY:CA	1:A:762:HIS:NE2	2.74	0.49
1:A:756:THR:O	1:A:758:TYR:N	2.46	0.49
1:D:192:VAL:O	1:D:195:TYR:HB3	2.13	0.49
1:D:289:TYR:OH	1:D:315:VAL:O	2.27	0.49
1:D:310:TYR:CE2	1:D:320:ILE:CD1	2.94	0.49
1:D:486:MLY:HH22	1:D:527:GLU:CD	2.37	0.49
2:E:128:PHE:O	2:E:133:ILE:HD11	2.13	0.49
1:G:543:PRO:CD	4:V:146:GLY:O	2.61	0.49
1:G:804:ARG:NH2	3:I:149:VAL:HG23	2.27	0.49
1:J:97:LEU:HD13	1:J:97:LEU:N	2.28	0.49
1:J:601:ASP:N	1:J:602:PRO:CD	2.75	0.49
1:J:739:ASP:OD1	1:J:740:SER:N	2.45	0.49
1:J:818:TYR:CZ	2:K:127:ARG:NH1	2.81	0.49
1:P:109:ARG:HD3	1:P:117:THR:HB	1.92	0.49
1:P:128:PRO:O	1:P:683:PRO:HB3	2.12	0.49
1:P:795:ARG:CD	3:R:35:ARG:NH1	2.74	0.49
1:P:839:MLY:N	1:P:840:PRO:CD	2.75	0.49
4:1:124:PHE:CZ	4:1:132:MET:HG3	2.48	0.49
4:5:318:THR:HA	4:5:327:ILE:HG12	1.94	0.49
4:V:124:PHE:CZ	4:V:132:MET:HG3	2.48	0.49
4:Z:318:THR:HA	4:Z:327:ILE:HG12	1.95	0.49
1:A:173:GLN:OE1	1:A:668:HIS:HB3	2.13	0.49
1:A:192:VAL:O	1:A:195:TYR:HB3	2.13	0.49
1:A:278:GLN:HG3	1:A:318:GLY:H	1.75	0.49
1:A:346:ASP:O	1:A:349:THR:HB	2.11	0.49
1:A:715:VAL:HG12	1:A:716:LEU:O	2.13	0.49
1:A:732:ILE:O	1:A:736:GLN:HG3	2.11	0.49
1:A:747:LEU:C	1:A:749:GLY:H	2.20	0.49
2:B:121:LEU:HA	2:B:128:PHE:CD2	2.46	0.49
1:D:173:GLN:OE1	1:D:668:HIS:HB3	2.13	0.49
1:D:543:PRO:CD	4:9:146:GLY:O	2.61	0.49
1:D:793:ARG:O	1:D:797:PHE:N	2.39	0.49
1:G:278:GLN:HG3	1:G:318:GLY:H	1.75	0.49
1:G:289:TYR:OH	1:G:315:VAL:O	2.27	0.49
1:G:642:LYS:CB	4:V:24:ASP:O	2.60	0.49
1:J:20:SER:HB3	1:J:23:GLU:OE1	2.13	0.49
1:J:128:PRO:O	1:J:683:PRO:HB3	2.12	0.49
2:K:117:LEU:HG	2:K:147:ASN:HB3	1.93	0.49
1:P:290:GLN:HG2	1:P:331:LEU:CA	2.43	0.49
1:P:311:ASP:HB2	1:P:312:TYR:CE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:312:TYR:N	1:P:312:TYR:CD1	2.81	0.49
1:P:601:ASP:N	1:P:602:PRO:CD	2.75	0.49
1:P:739:ASP:OD1	1:P:740:SER:N	2.45	0.49
1:P:832:MET:SD	2:Q:84:PHE:HE2	2.36	0.49
1:P:839:MLY:HH13	2:Q:159:HIS:CD2	2.47	0.49
4:2:70:PRO:HG3	4:2:81:ASP:HB3	1.94	0.49
4:2:124:PHE:CZ	4:2:132:MET:HG3	2.48	0.49
4:4:318:THR:HA	4:4:327:ILE:HG12	1.94	0.49
4:X:124:PHE:CZ	4:X:132:MET:HG3	2.48	0.49
4:Z:70:PRO:HG3	4:Z:81:ASP:HB3	1.94	0.49
4:Z:124:PHE:CZ	4:Z:132:MET:HG3	2.48	0.49
1:A:295:MLY:HE2	1:A:332:MET:HE1	1.95	0.49
1:A:312:TYR:N	1:A:312:TYR:CD1	2.81	0.49
1:A:720:PHE:CD2	1:A:744:SER:HB3	2.48	0.49
2:B:93:PRO:O	2:B:97:ILE:HG13	2.13	0.49
1:D:290:GLN:HG2	1:D:331:LEU:CA	2.43	0.49
1:D:448:GLN:C	1:D:450:ASP:H	2.19	0.49
1:D:538:GLU:HA	4:9:351:THR:H	1.77	0.49
1:D:839:MLY:HB2	1:D:840:PRO:HD3	1.94	0.49
2:E:114:LYS:HG3	2:E:137:TRP:CZ2	2.48	0.49
1:G:839:MLY:N	1:G:840:PRO:CD	2.75	0.49
1:P:314:TYR:CZ	1:P:362:GLY:HA2	2.48	0.49
4:0:243:PRO:HB2	4:Y:291:LYS:CE	2.43	0.49
4:5:70:PRO:HG3	4:5:81:ASP:HB3	1.94	0.49
4:V:198:TYR:CZ	4:V:248:ILE:HG13	2.48	0.49
4:W:124:PHE:CZ	4:W:132:MET:HG3	2.48	0.49
1:A:128:PRO:O	1:A:683:PRO:HB3	2.12	0.49
1:A:168:THR:HG22	1:A:169:ASP:OD1	2.12	0.49
1:A:310:TYR:CE2	1:A:320:ILE:CD1	2.94	0.49
1:A:429:LEU:O	1:A:433:VAL:HG23	2.12	0.49
1:A:739:ASP:CB	1:A:742:LYS:CB	2.81	0.49
1:A:752:ASP:O	1:A:778:MET:SD	2.71	0.49
2:B:112:ILE:HG23	2:B:147:ASN:HB3	1.93	0.49
1:D:128:PRO:O	1:D:683:PRO:HB3	2.12	0.49
1:D:713:SER:H	1:D:771:LEU:HD23	1.24	0.49
1:D:756:THR:O	1:D:758:TYR:N	2.45	0.49
1:G:84:MLY:CH2	1:G:720:PHE:HA	2.37	0.49
1:G:128:PRO:O	1:G:683:PRO:HB3	2.12	0.49
1:G:547:ASP:O	1:G:550:PHE:HB3	2.12	0.49
1:G:732:ILE:H	1:G:733:PRO:CD	2.22	0.49
2:H:114:LYS:HG3	2:H:137:TRP:CZ2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:93:MET:HE2	1:J:764:MLY:HD3	1.93	0.49
1:J:251:ARG:HB2	1:J:264:ASP:HB3	1.95	0.49
1:J:290:GLN:HG2	1:J:331:LEU:CA	2.43	0.49
1:J:486:MLY:HH22	1:J:527:GLU:CD	2.37	0.49
1:J:756:THR:O	1:J:758:TYR:N	2.46	0.49
1:J:819:ASN:OD1	2:K:92:ASP:CA	2.57	0.49
2:K:128:PHE:O	2:K:133:ILE:HD11	2.13	0.49
1:P:543:PRO:CD	4:0:146:GLY:O	2.61	0.49
1:P:732:ILE:H	1:P:733:PRO:HD2	1.74	0.49
2:Q:128:PHE:O	2:Q:133:ILE:HD11	2.13	0.49
4:4:213:LYS:O	4:4:217:CYS:HB2	2.13	0.49
4:5:198:TYR:CZ	4:5:248:ILE:HG13	2.48	0.49
1:A:218:LEU:HD22	1:A:222:ILE:HG13	1.94	0.49
1:A:251:ARG:O	1:A:263:ALA:HA	2.12	0.49
1:A:715:VAL:O	1:A:764:MLY:HB3	2.12	0.49
1:A:723:ARG:HH11	1:A:723:ARG:HG3	1.78	0.49
1:A:813:ILE:CG2	2:B:127:ARG:CB	2.90	0.49
1:D:267:THR:HG21	1:D:438:PHE:HE2	1.76	0.49
1:G:154:HIS:CD2	1:G:155:ILE:H	2.30	0.49
1:G:168:THR:HG22	1:G:169:ASP:OD1	2.12	0.49
1:G:237:THR:HG22	1:G:238:VAL:N	2.28	0.49
1:G:632:GLY:HA3	1:G:643:GLY:N	2.17	0.49
1:G:635:GLY:HA3	4:V:334:GLU:CG	2.30	0.49
3:I:50:LEU:O	3:I:55:LYS:HB2	2.13	0.49
1:J:93:MET:HE1	1:J:716:LEU:HB2	1.95	0.49
1:J:312:TYR:N	1:J:312:TYR:CD1	2.81	0.49
1:J:540:CYS:C	4:W:349:LEU:HD21	2.36	0.49
1:J:720:PHE:CD2	1:J:744:SER:HB3	2.48	0.49
1:P:173:GLN:OE1	1:P:668:HIS:HB3	2.13	0.49
1:P:538:GLU:OE1	4:0:351:THR:HB	2.12	0.49
1:P:540:CYS:C	4:0:349:LEU:HD21	2.36	0.49
1:P:800:ARG:CD	3:R:149:VAL:O	2.52	0.49
2:Q:117:LEU:HG	2:Q:147:ASN:HB3	1.93	0.49
4:9:124:PHE:CZ	4:9:132:MET:HG3	2.48	0.49
1:A:97:LEU:HD13	1:A:97:LEU:N	2.28	0.49
1:D:20:SER:HB3	1:D:23:GLU:OE1	2.13	0.49
1:D:64:THR:CG2	1:D:65:GLU:N	2.75	0.49
1:D:547:ASP:O	1:D:550:PHE:HB3	2.12	0.49
2:E:121:LEU:HA	2:E:128:PHE:CD2	2.46	0.49
1:G:20:SER:HB3	1:G:23:GLU:OE1	2.13	0.49
1:G:84:MLY:CE	1:G:724:TYR:CE2	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ASP:OD1	4:X:47:MET:CE	2.27	0.49
1:G:629:GLU:HG2	1:G:643:GLY:C	2.36	0.49
1:G:715:VAL:HG12	1:G:716:LEU:O	2.12	0.49
1:G:756:THR:O	1:G:758:TYR:N	2.45	0.49
1:J:173:GLN:OE1	1:J:668:HIS:HB3	2.13	0.49
1:J:237:THR:HG22	1:J:238:VAL:N	2.28	0.49
1:J:506:GLU:HG3	1:J:760:PHE:O	2.13	0.49
1:J:553:MLY:CE	4:Y:45:VAL:CG1	2.78	0.49
1:J:715:VAL:HG12	1:J:716:LEU:O	2.12	0.49
1:J:797:PHE:HE2	3:L:126:LEU:HD13	1.76	0.49
1:J:831:TRP:CH2	2:K:47:LEU:HD23	2.37	0.49
1:P:747:LEU:C	1:P:749:GLY:H	2.20	0.49
1:P:793:ARG:HG2	3:R:87:PHE:CE2	2.47	0.49
4:3:198:TYR:CZ	4:3:248:ILE:HG13	2.48	0.49
4:8:198:TYR:CZ	4:8:248:ILE:HG13	2.48	0.49
4:X:198:TYR:CZ	4:X:248:ILE:HG13	2.48	0.49
1:D:544:LYS:HD2	4:9:147:ARG:CB	2.36	0.48
1:D:715:VAL:HG12	1:D:716:LEU:O	2.12	0.48
1:D:798:LEU:HD11	3:F:126:LEU:HD11	0.50	0.48
1:D:819:ASN:N	2:E:90:GLY:C	2.71	0.48
1:G:93:MET:SD	1:G:715:VAL:C	2.95	0.48
1:G:295:MLY:HE2	1:G:332:MET:HE1	1.95	0.48
1:G:310:TYR:CE2	1:G:320:ILE:CD1	2.94	0.48
1:G:821:ARG:HH22	2:H:127:ARG:CD	2.22	0.48
1:J:64:THR:CG2	1:J:65:GLU:N	2.75	0.48
1:J:215:GLN:H	1:J:340:ILE:CD1	2.20	0.48
1:J:218:LEU:HA	1:J:221:GLN:HG3	1.71	0.48
1:J:476:GLU:CD	1:J:476:GLU:H	2.21	0.48
1:P:97:LEU:HD21	1:P:712:PRO:HB2	1.85	0.48
1:P:97:LEU:HD13	1:P:97:LEU:N	2.28	0.48
1:P:471:ASP:HB3	1:P:573:GLY:O	2.12	0.48
1:P:715:VAL:O	1:P:764:MLY:HB3	2.12	0.48
4:1:70:PRO:HG3	4:1:81:ASP:HB3	1.94	0.48
4:1:148:THR:OG1	4:3:45:VAL:CG2	2.61	0.48
4:1:213:LYS:O	4:1:217:CYS:HB2	2.13	0.48
4:3:124:PHE:CZ	4:3:132:MET:HG3	2.48	0.48
4:7:124:PHE:CZ	4:7:132:MET:HG3	2.48	0.48
4:7:325:MET:HE2	4:9:244:ASP:HB3	1.94	0.48
4:X:324:THR:O	4:Z:245:GLY:C	2.56	0.48
1:A:791:GLN:CD	3:C:116:GLU:N	2.51	0.48
1:D:720:PHE:CD2	1:D:744:SER:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:248:MLY:HE2	1:G:250:ILE:HD11	1.95	0.48
1:G:309:PRO:C	1:G:311:ASP:H	2.22	0.48
2:H:117:LEU:CB	2:H:147:ASN:ND2	2.35	0.48
1:J:405:ARG:HB2	1:J:414:THR:OG1	2.13	0.48
1:P:134:VAL:C	1:P:136:ASN:H	2.16	0.48
1:P:251:ARG:HB2	1:P:264:ASP:HB3	1.95	0.48
1:P:405:ARG:HB2	1:P:414:THR:OG1	2.13	0.48
2:Q:114:LYS:HG3	2:Q:137:TRP:CZ2	2.47	0.48
4:O:124:PHE:CZ	4:O:132:MET:HG3	2.48	0.48
4:7:70:PRO:HG3	4:7:81:ASP:HB3	1.94	0.48
4:7:198:TYR:CZ	4:7:248:ILE:HG13	2.48	0.48
4:Z:198:TYR:CZ	4:Z:248:ILE:HG13	2.48	0.48
1:A:499:GLU:OE1	1:A:499:GLU:HA	2.13	0.48
1:A:542:PHE:CD2	4:8:143:TYR:CD1	3.02	0.48
2:E:121:LEU:O	2:E:128:PHE:CG	2.61	0.48
3:F:50:LEU:O	3:F:55:LYS:HB2	2.13	0.48
1:G:173:GLN:OE1	1:G:668:HIS:HB3	2.13	0.48
1:G:175:ILE:C	1:G:176:LEU:HD12	2.38	0.48
1:G:192:VAL:O	1:G:195:TYR:HB3	2.13	0.48
1:G:405:ARG:HB2	1:G:414:THR:OG1	2.13	0.48
1:G:538:GLU:HA	4:V:351:THR:H	1.77	0.48
1:G:747:LEU:C	1:G:749:GLY:H	2.20	0.48
1:J:538:GLU:HA	4:W:351:THR:H	1.77	0.48
1:P:64:THR:CG2	1:P:65:GLU:N	2.75	0.48
1:P:168:THR:HG22	1:P:169:ASP:OD1	2.12	0.48
1:P:267:THR:HG21	1:P:438:PHE:HE2	1.76	0.48
1:P:476:GLU:CD	1:P:476:GLU:H	2.22	0.48
1:P:486:MLY:HH22	1:P:527:GLU:CD	2.37	0.48
1:P:544:LYS:HZ1	4:2:45:VAL:CG2	2.21	0.48
1:P:715:VAL:HG12	1:P:716:LEU:O	2.12	0.48
1:P:830:PRO:HB2	2:Q:67:MET:HE2	1.94	0.48
4:1:198:TYR:CZ	4:1:248:ILE:HG13	2.48	0.48
4:3:120:THR:HG21	4:3:370:VAL:HG11	1.95	0.48
4:3:287:ILE:HG22	4:5:204:ALA:H	1.74	0.48
4:4:198:TYR:CZ	4:4:248:ILE:HG13	2.48	0.48
4:5:213:LYS:O	4:5:217:CYS:HB2	2.13	0.48
4:9:70:PRO:HG3	4:9:81:ASP:HB3	1.94	0.48
4:9:325:MET:HE2	4:W:244:ASP:HB3	1.94	0.48
4:Y:124:PHE:CZ	4:Y:132:MET:HG3	2.48	0.48
1:A:175:ILE:C	1:A:176:LEU:HD12	2.38	0.48
1:A:290:GLN:HG2	1:A:331:LEU:CA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:LYS:HD2	4:8:147:ARG:CB	2.36	0.48
1:A:664:LEU:HD12	1:A:664:LEU:HA	1.53	0.48
1:A:709:LYS:O	1:A:710:GLY:N	2.46	0.48
1:D:168:THR:HG22	1:D:169:ASP:OD1	2.12	0.48
1:D:295:MLY:HE2	1:D:332:MET:HE1	1.95	0.48
1:D:404:PRO:HD2	1:D:415:MLY:O	2.13	0.48
1:D:507:GLY:HA3	1:D:762:HIS:CA	2.43	0.48
1:G:617:MLY:O	1:G:620:ALA:HB3	2.14	0.48
1:G:754:ASP:C	1:G:776:GLU:CD	2.81	0.48
1:G:835:PHE:CD1	2:H:30:ALA:HB2	2.48	0.48
2:H:128:PHE:O	2:H:133:ILE:HD11	2.13	0.48
1:J:267:THR:HG21	1:J:438:PHE:HE2	1.76	0.48
1:J:547:ASP:O	1:J:550:PHE:HB3	2.12	0.48
1:P:410:ASN:HD22	4:0:336:LYS:HE2	1.78	0.48
1:P:550:PHE:CE2	1:P:592:ILE:CG2	2.97	0.48
1:P:617:MLY:O	1:P:620:ALA:HB3	2.14	0.48
4:7:213:LYS:O	4:7:217:CYS:HB2	2.13	0.48
4:X:324:THR:CB	4:Z:247:VAL:H	2.23	0.48
1:A:237:THR:HG22	1:A:238:VAL:N	2.28	0.48
1:A:406:VAL:CG1	1:A:407:GLY:N	2.77	0.48
1:A:549:SER:C	4:V:45:VAL:O	2.56	0.48
1:A:732:ILE:HG23	1:A:747:LEU:HD12	0.95	0.48
1:D:540:CYS:C	4:9:349:LEU:HD21	2.36	0.48
1:D:541:MET:SD	4:9:345:ILE:C	2.95	0.48
1:D:689:GLU:O	1:D:689:GLU:HG2	2.14	0.48
1:G:97:LEU:HD13	1:G:97:LEU:N	2.27	0.48
1:G:499:GLU:OE1	1:G:499:GLU:HA	2.13	0.48
1:G:765:VAL:CG1	1:G:766:PHE:N	2.77	0.48
1:G:792:ALA:N	3:I:42:THR:HG22	2.27	0.48
1:J:136:ASN:O	1:J:139:VAL:N	2.47	0.48
1:J:168:THR:HG22	1:J:169:ASP:OD1	2.12	0.48
1:J:410:ASN:HD22	4:W:336:LYS:HE2	1.78	0.48
1:J:550:PHE:CE2	1:J:592:ILE:CG2	2.97	0.48
1:J:643:GLY:N	4:W:23:GLY:C	2.55	0.48
3:L:50:LEU:O	3:L:55:LYS:HB2	2.13	0.48
1:P:642:LYS:CB	4:0:24:ASP:O	2.60	0.48
1:P:720:PHE:CD2	1:P:744:SER:HB3	2.48	0.48
1:P:804:ARG:NH2	3:R:149:VAL:HA	2.28	0.48
1:P:831:TRP:CZ3	2:Q:34:ILE:CD1	2.82	0.48
4:1:243:PRO:C	4:Z:324:THR:OG1	2.53	0.48
4:9:198:TYR:CZ	4:9:248:ILE:HG13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:70:PRO:HG3	4:W:81:ASP:HB3	1.94	0.48
4:W:325:MET:SD	4:Y:244:ASP:HB3	2.43	0.48
1:A:10:PHE:CD2	1:A:17:LEU:HD23	2.49	0.48
1:A:732:ILE:HG23	1:A:747:LEU:CD1	1.04	0.48
1:A:795:ARG:HD2	3:C:43:ASN:CG	2.38	0.48
1:A:831:TRP:CE3	2:B:34:ILE:HG12	2.47	0.48
1:D:617:MLY:O	1:D:620:ALA:HB3	2.14	0.48
1:D:724:TYR:HD1	1:D:727:LEU:CD1	2.27	0.48
1:D:765:VAL:CG1	1:D:766:PHE:N	2.77	0.48
1:D:800:ARG:HB3	3:F:149:VAL:CG1	2.42	0.48
1:G:218:LEU:HD22	1:G:222:ILE:HG13	1.95	0.48
1:G:312:TYR:N	1:G:312:TYR:CD1	2.81	0.48
1:J:346:ASP:O	1:J:350:ALA:N	2.45	0.48
1:J:404:PRO:HD2	1:J:415:MLY:O	2.13	0.48
1:J:617:MLY:O	1:J:620:ALA:HB3	2.14	0.48
2:K:93:PRO:O	2:K:97:ILE:HG13	2.12	0.48
1:P:237:THR:HG22	1:P:238:VAL:N	2.28	0.48
1:P:795:ARG:HB3	3:R:35:ARG:CZ	2.12	0.48
1:P:795:ARG:NE	3:R:42:THR:HB	2.28	0.48
4:0:250:ILE:HG23	4:0:253:GLU:HG2	1.96	0.48
4:0:288:ASP:OD1	4:2:62:ARG:CG	2.62	0.48
4:2:198:TYR:CZ	4:2:248:ILE:HG13	2.48	0.48
4:5:124:PHE:CZ	4:5:132:MET:HG3	2.48	0.48
4:W:250:ILE:HG23	4:W:253:GLU:HG2	1.96	0.48
4:Y:70:PRO:HG3	4:Y:81:ASP:HB3	1.94	0.48
1:A:64:THR:CG2	1:A:65:GLU:N	2.76	0.48
1:A:405:ARG:HB2	1:A:414:THR:OG1	2.13	0.48
1:A:707:CYS:HA	1:A:714:ARG:HH12	1.68	0.48
1:A:725:ARG:NE	1:A:733:PRO:CB	1.95	0.48
1:D:106:LEU:HD12	1:D:117:THR:HG21	1.96	0.48
1:D:405:ARG:HB2	1:D:414:THR:OG1	2.13	0.48
2:E:93:PRO:O	2:E:97:ILE:HG13	2.13	0.48
1:G:251:ARG:O	1:G:263:ALA:HA	2.12	0.48
1:G:476:GLU:H	1:G:476:GLU:CD	2.21	0.48
1:G:815:CYS:SG	2:H:92:ASP:CG	2.97	0.48
2:H:117:LEU:HG	2:H:147:ASN:HB3	1.93	0.48
1:J:10:PHE:CD2	1:J:17:LEU:HD23	2.49	0.48
1:J:41:VAL:CG1	1:J:42:HIS:N	2.75	0.48
1:J:295:MLY:HE2	1:J:332:MET:HE1	1.95	0.48
1:J:314:TYR:CZ	1:J:362:GLY:HA2	2.48	0.48
1:J:599:ASN:CG	1:J:649:VAL:CB	2.80	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:795:ARG:HD2	3:L:43:ASN:H	1.75	0.48
1:P:84:MLY:HD3	1:P:724:TYR:CZ	2.49	0.48
1:P:309:PRO:C	1:P:311:ASP:H	2.22	0.48
1:P:499:GLU:OE1	1:P:499:GLU:HA	2.13	0.48
1:P:546:THR:CG2	1:P:547:ASP:N	2.77	0.48
1:P:765:VAL:CG1	1:P:766:PHE:N	2.77	0.48
4:O:70:PRO:HG3	4:O:81:ASP:HB3	1.94	0.48
4:O:213:LYS:O	4:O:217:CYS:HB2	2.13	0.48
4:3:253:GLU:HA	4:3:256:ARG:CG	2.42	0.48
4:4:120:THR:HG21	4:4:370:VAL:HG11	1.95	0.48
4:4:124:PHE:CZ	4:4:132:MET:HG3	2.48	0.48
4:5:250:ILE:HG23	4:5:253:GLU:HG2	1.96	0.48
4:7:120:THR:HG21	4:7:370:VAL:HG11	1.95	0.48
4:7:250:ILE:HG23	4:7:253:GLU:HG2	1.96	0.48
4:9:250:ILE:HG23	4:9:253:GLU:HG2	1.96	0.48
4:V:120:THR:HG21	4:V:370:VAL:HG11	1.95	0.48
4:W:198:TYR:CZ	4:W:248:ILE:HG13	2.48	0.48
4:W:213:LYS:O	4:W:217:CYS:HB2	2.13	0.48
4:X:324:THR:CG2	4:Z:247:VAL:H	2.27	0.48
4:Z:213:LYS:O	4:Z:217:CYS:HB2	2.13	0.48
1:A:617:MLY:O	1:A:620:ALA:HB3	2.14	0.48
1:D:237:THR:HG22	1:D:238:VAL:N	2.28	0.48
1:D:314:TYR:CZ	1:D:362:GLY:HA2	2.48	0.48
1:D:436:MLY:HE3	1:D:626:TYR:HE1	1.77	0.48
1:D:642:LYS:CB	4:9:24:ASP:O	2.59	0.48
1:D:725:ARG:NE	1:D:733:PRO:CB	1.95	0.48
1:G:64:THR:CG2	1:G:65:GLU:N	2.75	0.48
1:G:408:VAL:HG22	1:G:636:LYS:HG2	1.51	0.48
1:G:796:GLY:N	3:I:35:ARG:NH2	2.62	0.48
1:J:481:ASN:N	1:J:481:ASN:ND2	2.51	0.48
1:J:710:GLY:C	1:J:772:LEU:HD23	2.39	0.48
1:P:404:PRO:HD2	1:P:415:MLY:O	2.13	0.48
1:P:595:TRP:CD1	1:P:595:TRP:N	2.80	0.48
4:2:213:LYS:O	4:2:217:CYS:HB2	2.13	0.48
4:3:250:ILE:HG23	4:3:253:GLU:HG2	1.96	0.48
4:4:250:ILE:HG23	4:4:253:GLU:HG2	1.96	0.48
4:8:120:THR:HG21	4:8:370:VAL:HG11	1.95	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	2.14	0.48
4:Y:213:LYS:O	4:Y:217:CYS:HB2	2.13	0.48
4:Y:250:ILE:HG23	4:Y:253:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:ASP:OD1	1:A:169:ASP:N	2.44	0.48
1:A:248:MLY:HE2	1:A:250:ILE:HD11	1.95	0.48
1:A:635:GLY:HA3	4:8:334:GLU:CG	2.30	0.48
1:A:689:GLU:HG2	1:A:689:GLU:O	2.14	0.48
1:D:97:LEU:HD13	1:D:97:LEU:N	2.27	0.48
1:D:476:GLU:H	1:D:476:GLU:CD	2.21	0.48
1:D:550:PHE:CE2	1:D:592:ILE:CG2	2.97	0.48
1:D:642:LYS:HB2	4:9:24:ASP:O	1.88	0.48
1:G:10:PHE:CD2	1:G:17:LEU:HD23	2.49	0.48
1:G:486:MLY:HH22	1:G:527:GLU:CD	2.37	0.48
1:G:723:ARG:HH11	1:G:723:ARG:HG3	1.78	0.48
2:H:140:PHE:HB3	2:H:144:VAL:HG12	1.95	0.48
1:J:546:THR:CG2	1:J:547:ASP:N	2.77	0.48
2:K:112:ILE:CG2	2:K:147:ASN:O	2.62	0.48
1:P:154:HIS:CE1	1:P:156:PHE:CE2	3.02	0.48
1:P:295:MLY:HE2	1:P:332:MET:HE1	1.95	0.48
1:P:675:ILE:CG2	1:P:676:ILE:N	2.74	0.48
1:P:786:ILE:C	1:P:787:ILE:CG2	2.73	0.48
4:1:253:GLU:HA	4:1:256:ARG:CG	2.42	0.48
4:V:213:LYS:O	4:V:217:CYS:HB2	2.13	0.48
4:V:250:ILE:HG23	4:V:253:GLU:HG2	1.96	0.48
4:X:213:LYS:O	4:X:217:CYS:HB2	2.13	0.48
1:A:486:MLY:HH22	1:A:527:GLU:CD	2.37	0.48
1:A:550:PHE:CE2	1:A:592:ILE:CG2	2.97	0.48
1:D:10:PHE:CD2	1:D:17:LEU:HD23	2.49	0.48
1:D:568:PRO:HD3	1:D:579:PHE:HA	1.96	0.48
1:D:578:HIS:HB3	1:D:592:ILE:CD1	2.38	0.48
2:E:144:VAL:HG12	2:E:153:ILE:HD13	1.92	0.48
1:G:314:TYR:CZ	1:G:362:GLY:HA2	2.48	0.48
1:G:544:LYS:HD2	4:V:147:ARG:CB	2.36	0.48
1:G:553:MLY:CB	4:X:45:VAL:O	2.57	0.48
1:G:724:TYR:HD1	1:G:727:LEU:CD1	2.27	0.48
1:G:834:LEU:CD2	2:H:34:ILE:CG1	2.91	0.48
1:J:84:MLY:O	1:J:723:ARG:CD	2.61	0.48
1:J:747:LEU:C	1:J:749:GLY:N	2.71	0.48
2:K:121:LEU:O	2:K:128:PHE:CG	2.61	0.48
1:P:554:LEU:HD12	1:P:554:LEU:HA	1.77	0.48
1:P:640:LYS:HD2	1:P:646:PHE:O	2.14	0.48
1:P:734:GLU:HG2	3:R:93:VAL:CG2	2.38	0.48
1:P:829:TRP:CH2	2:Q:87:LYS:HE2	2.49	0.48
1:P:839:MLY:HB2	1:P:840:PRO:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:253:GLU:HA	4:2:256:ARG:CG	2.42	0.48
4:4:217:CYS:C	4:4:218:TYR:HD1	2.22	0.48
4:9:120:THR:HG21	4:9:370:VAL:HG11	1.95	0.48
4:Y:198:TYR:CZ	4:Y:248:ILE:HG13	2.48	0.48
1:A:402:CYS:C	1:A:404:PRO:HD3	2.40	0.47
1:A:476:GLU:H	1:A:476:GLU:CD	2.21	0.47
1:A:546:THR:CG2	1:A:547:ASP:N	2.77	0.47
1:A:595:TRP:N	1:A:595:TRP:CD1	2.80	0.47
1:A:765:VAL:CG1	1:A:766:PHE:N	2.77	0.47
1:A:837:MLY:NZ	2:H:20:ASP:HB2	2.28	0.47
1:D:542:PHE:CD2	4:9:143:TYR:CD1	3.02	0.47
1:D:602:PRO:O	1:D:603:LEU:HD12	2.14	0.47
1:G:546:THR:CG2	1:G:547:ASP:N	2.77	0.47
1:G:720:PHE:CD2	1:G:744:SER:HB3	2.48	0.47
1:J:542:PHE:CD2	4:W:143:TYR:CD1	3.02	0.47
1:J:554:LEU:HD12	1:J:554:LEU:HA	1.77	0.47
1:J:636:LYS:O	4:W:144:ALA:HB1	2.14	0.47
1:P:218:LEU:CD2	1:P:222:ILE:CG1	2.86	0.47
1:P:538:GLU:HA	4:O:351:THR:H	1.77	0.47
1:A:149:GLN:CD	1:A:716:LEU:CD2	2.55	0.47
1:A:166:MET:HE3	1:A:459:ILE:HG13	1.96	0.47
1:A:410:ASN:HD22	4:8:336:LYS:HE2	1.78	0.47
1:A:640:LYS:HD2	1:A:646:PHE:O	2.15	0.47
1:A:754:ASP:H	1:A:775:LEU:CD1	2.26	0.47
1:A:793:ARG:O	1:A:797:PHE:N	2.40	0.47
1:A:836:PHE:CE1	2:B:159:HIS:HA	2.47	0.47
2:B:128:PHE:O	2:B:133:ILE:HD11	2.13	0.47
3:C:50:LEU:O	3:C:55:LYS:HB2	2.13	0.47
1:D:154:HIS:CE1	1:D:156:PHE:CE2	3.02	0.47
1:D:312:TYR:N	1:D:312:TYR:CD1	2.80	0.47
1:D:546:THR:CG2	1:D:547:ASP:N	2.77	0.47
1:D:550:PHE:C	4:W:46:GLY:CA	2.87	0.47
1:D:723:ARG:HH11	1:D:723:ARG:HG3	1.79	0.47
1:D:800:ARG:HD2	3:F:149:VAL:C	2.39	0.47
2:E:149:ASP:CG	2:E:150:TYR:N	2.49	0.47
1:G:166:MET:HE3	1:G:459:ILE:HG13	1.97	0.47
1:G:214:MET:HA	1:G:340:ILE:CD1	2.41	0.47
1:G:418:THR:CB	1:G:421:GLU:HG3	2.37	0.47
1:G:550:PHE:CE2	1:G:592:ILE:CG2	2.97	0.47
1:G:564:ASN:HD22	1:G:582:VAL:HB	1.79	0.47
1:G:821:ARG:NH2	2:H:127:ARG:CD	2.77	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:675:ILE:CG2	1:J:676:ILE:N	2.74	0.47
1:P:10:PHE:CD2	1:P:17:LEU:HD23	2.49	0.47
1:P:689:GLU:O	1:P:689:GLU:HG2	2.14	0.47
1:P:799:MET:HB2	3:R:35:ARG:CB	2.44	0.47
2:Q:160:GLY:O	2:Q:161:GLU:HG2	2.14	0.47
4:O:110:LEU:CA	4:1:195:GLU:HG3	2.44	0.47
4:O:120:THR:HG21	4:O:370:VAL:HG11	1.95	0.47
4:2:250:ILE:HG23	4:2:253:GLU:HG2	1.96	0.47
4:5:253:GLU:HA	4:5:256:ARG:CG	2.42	0.47
4:Z:120:THR:HG21	4:Z:370:VAL:HG11	1.95	0.47
1:A:176:LEU:N	1:A:176:LEU:CD1	2.74	0.47
1:A:404:PRO:HD2	1:A:415:MLY:O	2.13	0.47
1:A:540:CYS:C	4:8:349:LEU:HD21	2.36	0.47
1:A:602:PRO:O	1:A:603:LEU:HD12	2.14	0.47
1:A:833:MLY:HA	2:B:161:GLU:OE1	2.14	0.47
2:B:112:ILE:CG2	2:B:147:ASN:O	2.62	0.47
1:D:175:ILE:C	1:D:176:LEU:HD12	2.38	0.47
1:D:732:ILE:CD1	1:D:782:MLY:CH2	2.92	0.47
1:D:747:LEU:C	1:D:749:GLY:H	2.21	0.47
1:D:747:LEU:C	1:D:749:GLY:N	2.71	0.47
1:G:22:LYS:O	1:G:26:GLU:N	2.29	0.47
1:G:106:LEU:HD12	1:G:117:THR:HG21	1.96	0.47
1:G:602:PRO:O	1:G:603:LEU:HD12	2.14	0.47
1:G:817:GLN:CD	2:H:127:ARG:CG	2.87	0.47
1:J:218:LEU:CD2	1:J:222:ILE:CG1	2.86	0.47
1:J:819:ASN:OD1	2:K:90:GLY:O	2.32	0.47
1:P:136:ASN:O	1:P:139:VAL:N	2.47	0.47
1:P:747:LEU:C	1:P:749:GLY:N	2.71	0.47
1:P:834:LEU:HD12	2:Q:51:PHE:CE1	2.44	0.47
2:Q:121:LEU:O	2:Q:128:PHE:CG	2.61	0.47
3:R:50:LEU:O	3:R:55:LYS:HB2	2.13	0.47
4:O:198:TYR:CZ	4:O:248:ILE:HG13	2.48	0.47
4:1:120:THR:HG21	4:1:370:VAL:HG11	1.95	0.47
4:1:203:THR:CG2	4:Z:288:ASP:H	2.27	0.47
4:3:213:LYS:O	4:3:217:CYS:HB2	2.13	0.47
4:3:217:CYS:C	4:3:218:TYR:HD1	2.22	0.47
4:8:213:LYS:O	4:8:217:CYS:HB2	2.13	0.47
4:9:213:LYS:O	4:9:217:CYS:HB2	2.13	0.47
4:V:285:CYS:O	4:X:202:THR:CG2	2.62	0.47
4:W:120:THR:HG21	4:W:370:VAL:HG11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:217:CYS:C	4:W:218:TYR:HD1	2.22	0.47
4:X:250:ILE:HG23	4:X:253:GLU:HG2	1.96	0.47
4:Y:120:THR:HG21	4:Y:370:VAL:HG11	1.95	0.47
4:Z:253:GLU:HA	4:Z:256:ARG:CG	2.42	0.47
1:A:93:MET:CE	1:A:715:VAL:HG22	2.43	0.47
1:A:154:HIS:CE1	1:A:156:PHE:CE2	3.02	0.47
1:A:218:LEU:HA	1:A:221:GLN:H	1.79	0.47
1:A:783:LEU:HA	1:A:786:ILE:HB	1.96	0.47
1:D:410:ASN:HD22	4:9:336:LYS:HE2	1.78	0.47
1:D:564:ASN:HD22	1:D:582:VAL:HB	1.79	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:675:ILE:CG2	1:D:676:ILE:N	2.74	0.47
2:E:160:GLY:O	2:E:161:GLU:HG2	2.14	0.47
1:G:154:HIS:CE1	1:G:156:PHE:CE2	3.02	0.47
1:G:410:ASN:HD22	4:V:336:LYS:HE2	1.79	0.47
1:G:595:TRP:N	1:G:595:TRP:CD1	2.80	0.47
1:G:640:LYS:HD2	1:G:646:PHE:O	2.15	0.47
2:H:160:GLY:O	2:H:161:GLU:HG2	2.15	0.47
1:J:175:ILE:C	1:J:176:LEU:HD12	2.38	0.47
1:J:564:ASN:HD22	1:J:582:VAL:HB	1.79	0.47
2:Q:112:ILE:CG2	2:Q:147:ASN:O	2.62	0.47
4:0:162:ASN:OD1	4:0:277:THR:HG22	2.15	0.47
4:1:250:ILE:HG23	4:1:253:GLU:HG2	1.96	0.47
4:2:120:THR:HG21	4:2:370:VAL:HG11	1.95	0.47
4:V:253:GLU:HA	4:V:256:ARG:CG	2.42	0.47
4:X:120:THR:HG21	4:X:370:VAL:HG11	1.95	0.47
4:Y:162:ASN:OD1	4:Y:277:THR:HG22	2.15	0.47
4:Z:250:ILE:HG23	4:Z:253:GLU:HG2	1.96	0.47
1:A:314:TYR:CZ	1:A:362:GLY:HA2	2.48	0.47
1:A:538:GLU:HA	4:8:351:THR:H	1.78	0.47
1:A:556:ASP:CA	4:V:49:GLN:O	2.52	0.47
1:D:549:SER:C	4:W:45:VAL:O	2.57	0.47
1:D:783:LEU:HA	1:D:786:ILE:HB	1.97	0.47
1:D:818:TYR:HB3	2:E:90:GLY:CA	2.18	0.47
3:F:53:PRO:O	3:F:55:LYS:HG3	2.15	0.47
1:G:122:PHE:CE2	1:G:700:VAL:HA	2.50	0.47
1:G:402:CYS:C	1:G:404:PRO:HD3	2.40	0.47
1:G:404:PRO:HD2	1:G:415:MLY:O	2.13	0.47
1:G:817:GLN:CG	2:H:128:PHE:CE1	2.97	0.47
1:J:154:HIS:CE1	1:J:156:PHE:CE2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:166:MET:HE3	1:J:459:ILE:HG13	1.96	0.47
1:J:602:PRO:O	1:J:603:LEU:HD12	2.14	0.47
3:L:53:PRO:O	3:L:55:LYS:HG3	2.14	0.47
1:P:542:PHE:CD2	4:O:143:TYR:CD1	3.02	0.47
2:Q:121:LEU:HA	2:Q:128:PHE:CD2	2.47	0.47
3:R:50:LEU:O	3:R:53:PRO:CD	2.63	0.47
4:7:162:ASN:OD1	4:7:277:THR:HG22	2.15	0.47
4:7:217:CYS:C	4:7:218:TYR:HD1	2.22	0.47
4:W:162:ASN:OD1	4:W:277:THR:HG22	2.15	0.47
4:X:217:CYS:C	4:X:218:TYR:HD1	2.22	0.47
1:A:122:PHE:CE2	1:A:700:VAL:HA	2.50	0.47
1:A:646:PHE:HE2	1:A:652:LEU:CG	2.24	0.47
1:D:188:ASN:ND2	1:D:674:CYS:SG	2.88	0.47
1:D:524:GLU:HB3	1:D:528:MLY:HG2	1.97	0.47
1:D:541:MET:HE2	4:9:346:LEU:HD12	1.96	0.47
1:G:97:LEU:HD21	1:G:712:PRO:C	2.39	0.47
1:G:542:PHE:CD2	4:V:143:TYR:CD1	3.03	0.47
1:G:747:LEU:C	1:G:749:GLY:N	2.71	0.47
1:G:793:ARG:O	1:G:797:PHE:N	2.39	0.47
1:J:188:ASN:ND2	1:J:674:CYS:SG	2.88	0.47
1:J:400:ALA:HB1	1:J:606:THR:CG2	2.45	0.47
1:J:406:VAL:CG1	1:J:407:GLY:N	2.77	0.47
1:J:568:PRO:HD3	1:J:579:PHE:HA	1.96	0.47
1:J:798:LEU:CD2	3:L:118:MET:SD	3.03	0.47
2:K:121:LEU:HA	2:K:128:PHE:CD2	2.46	0.47
1:P:122:PHE:CE2	1:P:700:VAL:HA	2.50	0.47
1:P:406:VAL:CG1	1:P:407:GLY: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:O:144:ALA:HB1	2.14	0.47
1:P:795:ARG:HA	3:R:35:ARG:NH1	2.22	0.47
4:1:217:CYS:C	4:1:218:TYR:HD1	2.22	0.47
4:5:120:THR:HG21	4:5:370:VAL:HG11	1.95	0.47
4:8:217:CYS:C	4:8:218:TYR:HD1	2.22	0.47
4:9:162:ASN:OD1	4:9:277:THR:HG22	2.15	0.47
4:9:217:CYS:C	4:9:218:TYR:HD1	2.22	0.47
4:V:217:CYS:C	4:V:218:TYR:HD1	2.22	0.47
4:W:325:MET:SD	4:Y:244:ASP:OD2	2.73	0.47
1:A:136:ASN:O	1:A:139:VAL:N	2.47	0.47
1:A:309:PRO:C	1:A:311:ASP:H	2.22	0.47
1:A:762:HIS:CD2	1:A:762:HIS:N	2.78	0.47
1:A:815:CYS:SG	2:B:92:ASP:CB	2.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:160:GLY:O	2:B:161:GLU:HG2	2.14	0.47
1:D:248:MLY:HE2	1:D:250:ILE:HD11	1.96	0.47
1:D:309:PRO:C	1:D:311:ASP:H	2.22	0.47
1:D:311:ASP:CB	1:D:312:TYR:CE1	2.98	0.47
1:D:332:MET:H	1:D:332:MET:HG2	1.52	0.47
1:D:499:GLU:OE1	1:D:499:GLU:HA	2.13	0.47
1:D:629:GLU:CB	1:D:645:SER:N	2.74	0.47
1:G:93:MET:HE2	1:G:764:MLY:CD	2.36	0.47
1:G:106:LEU:HD12	1:G:106:LEU:HA	1.80	0.47
1:G:215:GLN:H	1:G:340:ILE:CD1	2.20	0.47
1:G:251:ARG:HB2	1:G:264:ASP:HB3	1.95	0.47
1:G:695:LEU:HB3	1:G:701:LEU:HD22	1.97	0.47
1:G:755:HIS:N	1:G:779:ARG:NE	2.50	0.47
1:G:796:GLY:CA	3:I:35:ARG:NE	2.77	0.47
1:G:813:ILE:CG2	2:H:128:PHE:HZ	2.14	0.47
2:H:121:LEU:HA	2:H:128:PHE:CD2	2.47	0.47
3:I:53:PRO:O	3:I:55:LYS:HG3	2.15	0.47
1:J:206:LYS:HD2	1:J:217:THR:CG2	2.17	0.47
1:J:210:GLN:C	1:J:211:SER:HG	2.14	0.47
1:J:406:VAL:CG1	1:J:407:GLY:H	2.28	0.47
1:J:499:GLU:OE1	1:J:499:GLU:HA	2.13	0.47
1:J:519:LEU:N	1:J:519:LEU:CD1	2.77	0.47
1:J:524:GLU:HB3	1:J:528:MLY:HG2	1.97	0.47
1:J:530:MET:HA	4:W:354:GLN:CD	2.11	0.47
1:J:541:MET:HE2	4:W:346:LEU:HD12	1.96	0.47
1:J:640:LYS:HD2	1:J:646:PHE:O	2.15	0.47
1:J:689:GLU:O	1:J:689:GLU:HG2	2.14	0.47
1:J:724:TYR:HD1	1:J:727:LEU:CD1	2.27	0.47
1:J:732:ILE:CG2	1:J:747:LEU:CD1	0.65	0.47
2:K:137:TRP:CA	2:K:145:ALA:CB	2.82	0.47
2:K:140:PHE:HB3	2:K:144:VAL:HG12	1.94	0.47
1:P:206:LYS:CE	1:P:217:THR:HG23	2.30	0.47
1:P:400:ALA:HB1	1:P:606:THR:CG2	2.45	0.47
1:P:418:THR:CB	1:P:421:GLU:HG3	2.37	0.47
1:P:548:THR:HG22	4:2:49:GLN:CA	2.15	0.47
1:P:568:PRO:HD3	1:P:579:PHE:HA	1.96	0.47
1:P:664:LEU:HD12	1:P:664:LEU:HA	1.52	0.47
1:P:724:TYR:HD1	1:P:727:LEU:CD1	2.27	0.47
4:O:217:CYS:C	4:O:218:TYR:HD1	2.22	0.47
4:1:162:ASN:OD1	4:1:277:THR:HG22	2.15	0.47
4:1:203:THR:CA	4:Z:287:ILE:HB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:162:ASN:OD1	4:3:277:THR:HG22	2.15	0.47
4:3:288:ASP:OD2	4:5:203:THR:OG1	2.32	0.47
4:7:253:GLU:HA	4:7:256:ARG:CG	2.42	0.47
4:X:162:ASN:OD1	4:X:277:THR:HG22	2.15	0.47
4:Z:162:ASN:OD1	4:Z:277:THR:HG22	2.15	0.47
1:A:251:ARG:HB2	1:A:264:ASP:HB3	1.95	0.47
1:A:400:ALA:HB1	1:A:606:THR:CG2	2.45	0.47
1:A:406:VAL:CG1	1:A:407:GLY:H	2.28	0.47
1:A:541:MET:SD	4:8:345:ILE:C	2.95	0.47
1:D:122:PHE:CE2	1:D:700:VAL:HA	2.49	0.47
1:D:406:VAL:CG1	1:D:407:GLY:N	2.77	0.47
1:D:599:ASN:CG	1:D:649:VAL:CB	2.80	0.47
1:D:695:LEU:HB3	1:D:701:LEU:HD22	1.97	0.47
1:G:94:MET:O	1:G:713:SER:CA	2.61	0.47
1:G:406:VAL:CG1	1:G:407:GLY:H	2.28	0.47
1:G:406:VAL:CG1	1:G:407:GLY:N	2.77	0.47
1:G:559:LEU:HD23	1:G:560:GLY:N	2.30	0.47
1:G:689:GLU:O	1:G:689:GLU:HG2	2.13	0.47
1:G:784:ALA:O	1:G:788:THR:CA	2.61	0.47
2:H:112:ILE:CG2	2:H:147:ASN:O	2.62	0.47
2:H:137:TRP:CA	2:H:145:ALA:HB2	2.37	0.47
1:J:106:LEU:HD12	1:J:117:THR:HG21	1.96	0.47
1:J:756:THR:HG21	1:J:779:ARG:HB3	1.96	0.47
1:J:796:GLY:HA2	3:L:35:ARG:HG2	1.96	0.47
1:P:42:HIS:O	1:P:45:GLN:O	2.33	0.47
1:P:410:ASN:HA	4:0:334:GLU:HB3	1.28	0.47
1:P:793:ARG:HB2	3:R:87:PHE:HZ	1.68	0.47
1:P:795:ARG:HG3	3:R:42:THR:HA	1.89	0.47
1:P:799:MET:CG	3:R:35:ARG:CD	2.93	0.47
4:2:162:ASN:OD1	4:2:277:THR:HG22	2.15	0.47
4:3:287:ILE:HG21	4:5:204:ALA:N	2.28	0.47
4:4:162:ASN:OD1	4:4:277:THR:HG22	2.15	0.47
4:Y:217:CYS:C	4:Y:218:TYR:HD1	2.22	0.47
1:A:732:ILE:H	1:A:733:PRO:HD2	1.74	0.47
1:A:747:LEU:C	1:A:749:GLY:N	2.71	0.47
3:C:52:ASN:CB	3:C:53:PRO:HD3	2.28	0.47
3:C:53:PRO:O	3:C:55:LYS:HG3	2.15	0.47
1:D:30:MLY:HB3	1:D:31:PRO:HD2	1.97	0.47
1:D:218:LEU:HA	1:D:221:GLN:H	1.79	0.47
1:D:221:GLN:HG2	1:D:221:GLN:H	1.47	0.47
1:D:496:PHE:CE2	1:D:514:ASP:HA	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:733:PRO:O	1:D:737:PHE:CE1	2.53	0.47
1:D:783:LEU:N	1:D:783:LEU:CD1	2.78	0.47
1:G:84:MLY:HA	1:G:723:ARG:NH1	2.29	0.47
1:G:640:LYS:HB3	1:G:645:SER:CB	2.42	0.47
1:G:701:LEU:HA	1:G:701:LEU:HD12	1.55	0.47
2:H:121:LEU:O	2:H:128:PHE:CG	2.61	0.47
1:J:248:MLY:HE2	1:J:250:ILE:HD11	1.95	0.47
1:J:311:ASP:CB	1:J:312:TYR:CE1	2.98	0.47
1:J:496:PHE:CE2	1:J:514:ASP:HA	2.50	0.47
1:J:578:HIS:HB3	1:J:592:ILE:CD1	2.38	0.47
1:J:839:MLY:HH11	2:K:158:THR:HG22	1.97	0.47
1:P:175:ILE:C	1:P:176:LEU:HD12	2.38	0.47
1:P:411:GLU:H	4:0:333:PRO:HB2	1.80	0.47
1:P:541:MET:HE2	4:0:346:LEU:HD12	1.96	0.47
1:P:578:HIS:HB3	1:P:592:ILE:CD1	2.38	0.47
1:P:602:PRO:O	1:P:603:LEU:HD12	2.14	0.47
1:P:810:ARG:HG2	1:P:810:ARG:NH1	2.29	0.47
4:0:173:HIS:HB3	4:1:267:ILE:HA	1.97	0.47
4:9:288:ASP:CA	4:W:204:ALA:HB2	2.31	0.47
1:A:144:ARG:HA	1:A:144:ARG:HD2	1.78	0.47
1:A:188:ASN:ND2	1:A:674:CYS:SG	2.88	0.47
1:A:265:ILE:CG2	1:A:266:GLU:N	2.78	0.47
1:A:564:ASN:HD22	1:A:582:VAL:HB	1.79	0.47
1:A:640:LYS:HB3	1:A:645:SER:CB	2.42	0.47
2:B:137:TRP:CZ3	2:B:145:ALA:N	2.81	0.47
1:D:402:CYS:C	1:D:404:PRO:HD3	2.40	0.47
1:D:595:TRP:N	1:D:595:TRP:CD1	2.80	0.47
1:D:834:LEU:HG	2:E:54:MET:SD	2.54	0.47
2:E:112:ILE:CG2	2:E:147:ASN:O	2.62	0.47
1:G:148:ARG:NH2	1:G:764:MLY:CH1	2.74	0.47
1:G:543:PRO:HD2	4:V:146:GLY:O	2.15	0.47
1:G:568:PRO:HD3	1:G:579:PHE:HA	1.97	0.47
1:G:715:VAL:CG1	1:G:720:PHE:HB2	2.45	0.47
1:G:769:ALA:C	1:G:773:GLY:HA3	2.37	0.47
1:J:122:PHE:CE2	1:J:700:VAL:HA	2.50	0.47
1:J:765:VAL:CG1	1:J:766:PHE:N	2.77	0.47
1:J:834:LEU:CD1	2:K:51:PHE:CD1	2.94	0.47
1:J:839:MLY:HH13	2:K:159:HIS:HD2	1.80	0.47
1:P:106:LEU:HD12	1:P:117:THR:HG21	1.96	0.47
4:V:162:ASN:OD1	4:V:277:THR:HG22	2.15	0.47
1:A:505:MLY:CG	1:A:762:HIS:CG	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:GLU:HB3	1:A:528:MLY:HG2	1.96	0.46
1:A:714:ARG:HD3	1:A:766:PHE:CE2	2.50	0.46
1:A:715:VAL:CG1	1:A:720:PHE:HB2	2.45	0.46
1:A:799:MET:CE	3:C:32:ASP:CB	2.61	0.46
2:B:88:LEU:HB3	2:B:91:ALA:HB2	1.98	0.46
1:D:543:PRO:HD2	4:9:146:GLY:O	2.15	0.46
1:D:640:LYS:C	1:D:645:SER:HG	2.10	0.46
3:F:50:LEU:O	3:F:53:PRO:CD	2.63	0.46
1:G:134:VAL:C	1:G:136:ASN:H	2.16	0.46
1:G:188:ASN:ND2	1:G:674:CYS:SG	2.88	0.46
1:G:818:TYR:CB	2:H:90:GLY:HA3	2.42	0.46
1:G:834:LEU:HD23	2:H:34:ILE:HD11	1.96	0.46
1:J:42:HIS:O	1:J:45:GLN:O	2.33	0.46
1:J:374:GLN:NE2	1:J:403:TYR:CE1	2.84	0.46
1:P:136:ASN:HA	1:P:137:PRO:HD3	1.50	0.46
1:P:166:MET:HE3	1:P:459:ILE:HG13	1.96	0.46
1:P:218:LEU:HA	1:P:221:GLN:H	1.79	0.46
1:P:310:TYR:CE2	1:P:320:ILE:CD1	2.94	0.46
1:P:374:GLN:NE2	1:P:403:TYR:CE1	2.84	0.46
1:P:496:PHE:CE2	1:P:514:ASP:HA	2.50	0.46
1:P:541:MET:SD	4:0:345:ILE:C	2.95	0.46
1:P:786:ILE:HG22	1:P:787:ILE:CB	2.33	0.46
4:0:166:TYR:OH	4:2:64:ILE:CB	2.64	0.46
1:A:418:THR:CB	1:A:421:GLU:HG3	2.37	0.46
1:D:42:HIS:O	1:D:45:GLN:O	2.33	0.46
1:D:400:ALA:HB1	1:D:606:THR:CG2	2.45	0.46
1:D:727:LEU:H	1:D:782:MLY:HE3	1.78	0.46
1:G:400:ALA:HB1	1:G:606:THR:CG2	2.45	0.46
1:G:664:LEU:HD12	1:G:664:LEU:HA	1.52	0.46
1:J:559:LEU:HD23	1:J:560:GLY:N	2.30	0.46
1:J:783:LEU:N	1:J:783:LEU:CD1	2.78	0.46
1:J:789:ALA:HB2	3:L:81:GLN:OE1	2.15	0.46
1:P:248:MLY:HE2	1:P:250:ILE:HD11	1.95	0.46
3:R:53:PRO:O	3:R:55:LYS:HG3	2.14	0.46
4:8:162:ASN:OD1	4:8:277:THR:HG22	2.15	0.46
1:D:406:VAL:CG1	1:D:407:GLY:H	2.28	0.46
1:D:541:MET:CG	4:9:345:ILE:C	2.87	0.46
1:D:543:PRO:CD	4:9:143:TYR:O	2.64	0.46
1:D:640:LYS:HB3	1:D:645:SER:CB	2.41	0.46
1:D:715:VAL:HG11	1:D:720:PHE:CD1	2.50	0.46
1:J:402:CYS:C	1:J:404:PRO:HD3	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:529:PRO:HB2	4:W:354:GLN:HB3	1.98	0.46
1:J:714:ARG:HD3	1:J:766:PHE:CE2	2.50	0.46
1:P:82:PRO:HG2	1:P:85:TYR:CE2	2.50	0.46
1:P:402:CYS:C	1:P:404:PRO:HD3	2.40	0.46
1:P:733:PRO:HB2	3:R:93:VAL:CG2	2.45	0.46
1:P:798:LEU:HD11	3:R:126:LEU:CD1	2.45	0.46
2:Q:88:LEU:HB3	2:Q:91:ALA:HB2	1.98	0.46
4:1:203:THR:CG2	4:Z:288:ASP:OD1	2.64	0.46
4:5:162:ASN:OD1	4:5:277:THR:HG22	2.15	0.46
4:9:6:THR:HG22	4:9:101:HIS:HA	1.97	0.46
1:A:202:SER:HA	1:A:207:LYS:NZ	2.22	0.46
1:A:326:ASP:O	1:A:330:GLU:HG2	2.16	0.46
1:A:332:MET:O	1:A:336:SER:OG	2.27	0.46
1:A:568:PRO:HD3	1:A:579:PHE:HA	1.96	0.46
1:A:636:LYS:O	4:8:144:ALA:HB1	2.15	0.46
1:A:659:MLY:HD2	1:A:659:MLY:HH22	1.42	0.46
1:A:813:ILE:HG21	2:B:127:ARG:HB2	1.97	0.46
1:D:166:MET:HE3	1:D:459:ILE:HG13	1.96	0.46
1:D:556:ASP:CA	4:W:49:GLN:O	2.52	0.46
1:D:726:VAL:O	1:D:785:GLU:HG2	2.15	0.46
1:D:732:ILE:HD13	1:D:782:MLY:CH2	2.43	0.46
1:D:739:ASP:OD1	1:D:739:ASP:C	2.58	0.46
1:D:797:PHE:HD1	3:F:146:ILE:O	1.98	0.46
1:D:829:TRP:HE1	2:E:67:MET:HG2	1.80	0.46
1:G:202:SER:HA	1:G:207:LYS:NZ	2.22	0.46
1:G:646:PHE:HE2	1:G:652:LEU:CG	2.25	0.46
1:G:755:HIS:CB	1:G:779:ARG:HH22	2.24	0.46
1:J:540:CYS:N	4:W:349:LEU:HD11	2.31	0.46
1:J:541:MET:CG	4:W:345:ILE:C	2.87	0.46
1:P:559:LEU:HD23	1:P:560:GLY:N	2.30	0.46
1:P:715:VAL:CG1	1:P:720:PHE:HB2	2.45	0.46
1:P:836:PHE:CE1	2:Q:159:HIS:C	2.94	0.46
4:0:6:THR:HG22	4:0:101:HIS:HA	1.97	0.46
1:A:42:HIS:O	1:A:45:GLN:O	2.33	0.46
1:A:106:LEU:HD12	1:A:117:THR:HG21	1.96	0.46
1:A:214:MET:HA	1:A:340:ILE:CD1	2.42	0.46
1:A:332:MET:H	1:A:332:MET:HG2	1.52	0.46
1:A:543:PRO:HD2	4:8:146:GLY:O	2.15	0.46
1:A:559:LEU:HD23	1:A:560:GLY:N	2.30	0.46
1:A:642:LYS:HB2	4:8:24:ASP:O	1.88	0.46
1:D:82:PRO:HG2	1:D:85:TYR:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:96:HIS:CE1	1:D:770:GLY:N	2.84	0.46
1:D:265:ILE:CG2	1:D:266:GLU:N	2.78	0.46
1:D:374:GLN:NE2	1:D:403:TYR:CE1	2.84	0.46
1:D:529:PRO:HB2	4:9:354:GLN:HB3	1.98	0.46
1:D:540:CYS:N	4:9:349:LEU:HD11	2.31	0.46
1:D:831:TRP:CE2	2:E:51:PHE:CE2	3.02	0.46
1:G:139:VAL:HG12	1:G:143:TYR:HD2	1.81	0.46
1:G:311:ASP:CB	1:G:312:TYR:CE1	2.98	0.46
1:G:374:GLN:NE2	1:G:403:TYR:CE1	2.84	0.46
1:G:818:TYR:C	2:H:90:GLY:HA3	2.40	0.46
1:G:823:PHE:CE1	2:H:160:GLY:HA2	2.45	0.46
2:H:88:LEU:HB3	2:H:91:ALA:HB2	1.98	0.46
1:J:82:PRO:HG2	1:J:85:TYR:CE2	2.50	0.46
1:J:218:LEU:HA	1:J:221:GLN:H	1.79	0.46
1:J:830:PRO:HB2	2:K:67:MET:HE2	1.94	0.46
1:P:41:VAL:CG1	1:P:42:HIS:N	2.75	0.46
1:P:311:ASP:CB	1:P:312:TYR:CE1	2.98	0.46
1:P:529:PRO:HB2	4:0:354:GLN:HB3	1.98	0.46
1:P:534:SER:HB2	4:0:354:GLN:HE22	1.56	0.46
1:P:540:CYS:N	4:0:349:LEU:HD11	2.30	0.46
1:P:725:ARG:NE	1:P:733:PRO:CB	1.95	0.46
1:P:793:ARG:HG2	3:R:87:PHE:CE1	2.50	0.46
1:P:803:TYR:CD1	1:P:807:VAL:HG21	2.50	0.46
2:Q:114:LYS:CG	2:Q:146:GLY:HA2	2.46	0.46
4:0:244:ASP:N	4:Y:291:LYS:HE2	0.23	0.46
4:0:366:GLY:O	4:0:369:ILE:HG22	2.16	0.46
4:7:324:THR:N	4:9:245:GLY:CA	2.69	0.46
4:W:6:THR:HG22	4:W:101:HIS:HA	1.98	0.46
4:Z:217:CYS:C	4:Z:218:TYR:HD1	2.22	0.46
1:A:311:ASP:CB	1:A:312:TYR:CE1	2.98	0.46
1:A:335:ASP:OD1	1:A:348:MLY:NZ	2.49	0.46
1:A:361:TYR:O	1:A:364:LEU:HB2	2.16	0.46
1:A:541:MET:HE2	4:8:346:LEU:HD12	1.96	0.46
1:A:724:TYR:HD1	1:A:727:LEU:CD1	2.27	0.46
1:D:206:LYS:HD3	1:D:217:THR:OG1	2.16	0.46
1:D:449:LEU:HD12	1:D:449:LEU:HA	1.60	0.46
1:D:715:VAL:CG1	1:D:720:PHE:HB2	2.46	0.46
1:D:834:LEU:HD22	2:E:50:THR:HG22	1.98	0.46
1:G:218:LEU:HA	1:G:221:GLN:H	1.79	0.46
1:G:541:MET:HE2	4:V:346:LEU:HD12	1.96	0.46
1:G:791:GLN:CD	3:I:116:GLU:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:309:PRO:C	1:J:311:ASP:H	2.22	0.46
1:J:732:ILE:CG2	1:J:747:LEU:HD12	0.35	0.46
1:J:817:GLN:CD	2:K:127:ARG:CB	2.84	0.46
1:P:188:ASN:ND2	1:P:674:CYS:SG	2.88	0.46
1:P:817:GLN:CB	2:Q:127:ARG:HH11	2.26	0.46
4:2:217:CYS:C	4:2:218:TYR:HD1	2.22	0.46
4:5:217:CYS:C	4:5:218:TYR:HD1	2.22	0.46
4:7:6:THR:HG22	4:7:101:HIS:HA	1.98	0.46
4:7:288:ASP:CG	4:9:203:THR:C	2.83	0.46
4:8:288:ASP:CG	4:V:203:THR:C	2.83	0.46
4:9:290:ARG:HH22	4:W:202:THR:CG2	2.17	0.46
4:W:366:GLY:O	4:W:369:ILE:HG22	2.16	0.46
4:X:324:THR:O	4:Z:245:GLY:CA	2.64	0.46
4:Y:6:THR:HG22	4:Y:101:HIS:HA	1.98	0.46
4:Y:366:GLY:O	4:Y:369:ILE:HG22	2.16	0.46
1:A:87:MLY:HH12	1:A:87:MLY:HD3	1.61	0.46
1:A:206:LYS:HD3	1:A:217:THR:OG1	2.16	0.46
1:A:374:GLN:NE2	1:A:403:TYR:CE1	2.84	0.46
1:A:637:LYS:HD2	4:8:144:ALA:HB3	1.21	0.46
3:C:50:LEU:O	3:C:53:PRO:CD	2.63	0.46
1:D:335:ASP:OD1	1:D:348:MLY:NZ	2.49	0.46
1:D:759:ALA:O	1:D:766:PHE:N	2.32	0.46
1:D:835:PHE:O	1:D:839:MLY:N	2.49	0.46
1:G:42:HIS:O	1:G:45:GLN:O	2.33	0.46
1:G:332:MET:O	1:G:336:SER:OG	2.27	0.46
1:G:335:ASP:OD1	1:G:348:MLY:NZ	2.49	0.46
1:G:361:TYR:O	1:G:364:LEU:HB2	2.16	0.46
2:H:137:TRP:CZ3	2:H:145:ALA:N	2.81	0.46
1:J:543:PRO:HD2	4:W:146:GLY:O	2.15	0.46
2:K:88:LEU:HB3	2:K:91:ALA:HB2	1.98	0.46
2:K:137:TRP:CZ3	2:K:145:ALA:N	2.81	0.46
1:P:206:LYS:HD3	1:P:217:THR:OG1	2.16	0.46
1:P:335:ASP:OD1	1:P:348:MLY:NZ	2.49	0.46
1:P:543:PRO:HD2	4:0:146:GLY:O	2.15	0.46
1:P:732:ILE:CG2	1:P:747:LEU:HD12	0.35	0.46
4:7:366:GLY:O	4:7:369:ILE:HG22	2.16	0.46
4:W:287:ILE:HG13	4:Y:202:THR:HG23	1.72	0.46
1:A:543:PRO:CD	4:8:143:TYR:O	2.64	0.46
1:A:665:ARG:C	1:A:667:THR:N	2.74	0.46
1:D:322:VAL:HB	1:D:325:ILE:HG13	1.98	0.46
1:D:507:GLY:CA	1:D:762:HIS:ND1	2.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:559:LEU:HD23	1:D:560:GLY:N	2.30	0.46
1:G:17:LEU:HA	1:G:17:LEU:HD12	1.67	0.46
1:G:206:LYS:HD3	1:G:217:THR:OG1	2.16	0.46
1:G:206:LYS:HD2	1:G:217:THR:CG2	2.17	0.46
1:G:524:GLU:HB3	1:G:528:MLY:HG2	1.96	0.46
1:G:714:ARG:HD3	1:G:766:PHE:CE2	2.50	0.46
1:G:754:ASP:HB2	1:G:776:GLU:CB	2.46	0.46
1:G:835:PHE:O	1:G:839:MLY:N	2.49	0.46
1:J:17:LEU:HA	1:J:17:LEU:HD12	1.67	0.46
1:J:206:LYS:HD3	1:J:217:THR:OG1	2.16	0.46
1:P:215:GLN:H	1:P:340:ILE:CD1	2.20	0.46
3:R:49:ILE:CA	3:R:52:ASN:ND2	2.54	0.46
4:O:166:TYR:OH	4:2:64:ILE:CD1	2.59	0.46
4:2:6:THR:HG22	4:2:101:HIS:HA	1.98	0.46
4:9:366:GLY:O	4:9:369:ILE:HG22	2.16	0.46
1:A:411:GLU:H	4:8:333:PRO:HB2	1.80	0.46
1:A:464:ILE:CG2	1:A:465:ALA:N	2.79	0.46
1:A:642:LYS:CB	4:8:24:ASP:O	2.59	0.46
1:A:695:LEU:HB3	1:A:701:LEU:HD22	1.97	0.46
1:D:507:GLY:C	1:D:762:HIS:N	2.74	0.46
1:D:612:GLN:NE2	1:D:627:GLY:H	2.14	0.46
1:D:725:ARG:CG	1:D:733:PRO:HA	2.43	0.46
1:D:794:CYS:O	1:D:797:PHE:HB3	2.16	0.46
1:D:823:PHE:CD1	2:E:160:GLY:HA3	2.48	0.46
2:E:114:LYS:CG	2:E:146:GLY:HA2	2.46	0.46
1:G:82:PRO:HG2	1:G:85:TYR:CE2	2.51	0.46
1:G:326:ASP:O	1:G:330:GLU:HG2	2.16	0.46
1:G:636:LYS:O	4:V:144:ALA:HB1	2.14	0.46
1:G:665:ARG:C	1:G:667:THR:N	2.74	0.46
1:G:797:PHE:CE1	3:I:146:ILE:CB	2.97	0.46
1:J:30:MLY:HB3	1:J:31:PRO:HD2	1.97	0.46
1:J:332:MET:O	1:J:336:SER:OG	2.27	0.46
1:J:541:MET:SD	4:W:345:ILE:C	2.95	0.46
1:J:695:LEU:HB3	1:J:701:LEU:HD22	1.97	0.46
1:J:754:ASP:CG	1:J:777:GLU:HA	2.40	0.46
1:J:829:TRP:HZ3	2:K:84:PHE:CE1	2.25	0.46
2:K:160:GLY:O	2:K:161:GLU:HG2	2.14	0.46
1:P:265:ILE:CG2	1:P:266:GLU:N	2.78	0.46
1:P:361:TYR:O	1:P:364:LEU:HB2	2.16	0.46
1:P:481:ASN:N	1:P:481:ASN:ND2	2.51	0.46
2:Q:137:TRP:CA	2:Q:145:ALA:HB2	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:366:GLY:O	4:2:369:ILE:HG22	2.16	0.46
4:8:287:ILE:CB	4:V:204:ALA:H	2.13	0.46
4:W:253:GLU:HA	4:W:256:ARG:CG	2.42	0.46
1:A:799:MET:HE1	3:C:32:ASP:CB	2.37	0.46
1:A:801:VAL:N	3:C:149:VAL:HG21	2.31	0.46
1:D:99:GLU:N	1:D:100:PRO:CD	2.79	0.46
1:D:229:LEU:HD12	1:D:229:LEU:HA	1.75	0.46
1:G:278:GLN:HE21	1:G:278:GLN:HB3	1.42	0.46
1:G:541:MET:SD	4:V:345:ILE:C	2.96	0.46
1:G:543:PRO:CD	4:V:143:TYR:O	2.64	0.46
1:G:708:ARG:CA	1:G:712:PRO:HG3	2.34	0.46
1:J:84:MLY:HH12	1:J:715:VAL:HG21	1.98	0.46
1:J:361:TYR:O	1:J:364:LEU:HB2	2.16	0.46
2:K:112:ILE:O	2:K:148:VAL:HA	2.16	0.46
1:P:406:VAL:CG1	1:P:407:GLY:H	2.28	0.46
1:P:541:MET:CG	4:0:345:ILE:C	2.87	0.46
1:P:797:PHE:HZ	3:R:146:ILE:HD11	1.75	0.46
4:1:223:PHE:CD2	4:1:259:GLU:HG3	2.51	0.46
4:1:324:THR:OG1	4:3:244:ASP:HB3	2.16	0.46
4:4:6:THR:HG22	4:4:101:HIS:HA	1.97	0.46
4:4:190:MET:O	4:4:194:THR:HG23	2.16	0.46
4:8:253:GLU:HA	4:8:256:ARG:CG	2.42	0.46
4:9:288:ASP:CG	4:W:203:THR:C	2.83	0.46
1:A:476:GLU:OE2	1:A:598:MLY:HH13	2.16	0.45
1:A:643:GLY:N	4:8:23:GLY:C	2.55	0.45
2:B:144:VAL:HG12	2:B:153:ILE:HD13	1.92	0.45
1:D:629:GLU:HB3	1:D:643:GLY:C	2.41	0.45
1:G:265:ILE:CG2	1:G:266:GLU:N	2.79	0.45
1:G:629:GLU:CB	1:G:645:SER:N	2.74	0.45
1:G:639:GLY:CA	4:V:344:SER:O	2.40	0.45
1:G:725:ARG:NE	1:G:733:PRO:CB	1.95	0.45
1:G:732:ILE:HG21	1:G:747:LEU:CD1	0.64	0.45
1:G:783:LEU:N	1:G:783:LEU:CD1	2.78	0.45
1:G:829:TRP:HZ3	2:H:84:PHE:CE2	2.28	0.45
1:J:218:LEU:HD22	1:J:222:ILE:HG13	1.95	0.45
1:J:322:VAL:HB	1:J:325:ILE:HG13	1.98	0.45
1:J:330:GLU:O	1:J:333:ALA:HB3	2.16	0.45
1:J:335:ASP:OD1	1:J:348:MLY:NZ	2.49	0.45
1:J:715:VAL:CG1	1:J:720:PHE:HB2	2.45	0.45
1:J:801:VAL:HG21	3:L:126:LEU:HD23	1.97	0.45
1:P:714:ARG:HD3	1:P:766:PHE:CE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:733:PRO:O	1:P:737:PHE:CE1	2.53	0.45
2:Q:140:PHE:HA	2:Q:141:PRO:HD2	1.57	0.45
4:2:190:MET:O	4:2:194:THR:HG23	2.16	0.45
4:3:366:GLY:O	4:3:369:ILE:HG22	2.16	0.45
1:A:82:PRO:HG2	1:A:85:TYR:CE2	2.50	0.45
1:A:136:ASN:HA	1:A:137:PRO:HD3	1.49	0.45
1:A:418:THR:CG2	1:A:419:VAL:N	2.79	0.45
1:A:529:PRO:HB2	4:8:354:GLN:HB3	1.97	0.45
1:A:809:ARG:HH12	2:B:124:GLY:HA2	1.79	0.45
2:B:114:LYS:CG	2:B:146:GLY:HA2	2.46	0.45
1:D:464:ILE:CG2	1:D:465:ALA:N	2.79	0.45
1:D:665:ARG:C	1:D:667:THR:N	2.74	0.45
1:D:714:ARG:HD3	1:D:766:PHE:CE2	2.50	0.45
1:D:727:LEU:HG	1:D:782:MLY:HG3	1.41	0.45
1:D:818:TYR:HB2	2:E:90:GLY:HA3	0.60	0.45
2:E:163:ALA:O	2:K:21:GLU:CA	2.63	0.45
1:G:30:MLY:HB3	1:G:31:PRO:HD2	1.97	0.45
1:G:55:MLY:HH23	1:G:60:VAL:HG22	1.99	0.45
1:G:186:THR:O	1:G:190:MLY:HG2	2.17	0.45
1:G:354:LEU:HD12	1:G:354:LEU:HA	1.56	0.45
1:G:436:MLY:HE3	1:G:626:TYR:HE1	1.77	0.45
1:G:464:ILE:CG2	1:G:465:ALA:N	2.80	0.45
1:G:659:MLY:HD2	1:G:659:MLY:HH22	1.42	0.45
1:G:829:TRP:CZ3	2:H:84:PHE:CD1	3.02	0.45
1:J:186:THR:O	1:J:190:MLY:HG2	2.17	0.45
1:P:544:LYS:CE	4:2:45:VAL:HG22	2.46	0.45
1:P:829:TRP:CH2	2:Q:87:LYS:CE	3.00	0.45
2:Q:117:LEU:CG	2:Q:147:ASN:OD1	2.52	0.45
4:3:190:MET:O	4:3:194:THR:HG23	2.16	0.45
4:3:223:PHE:CD2	4:3:259:GLU:HG3	2.52	0.45
4:4:366:GLY:O	4:4:369:ILE:HG22	2.16	0.45
4:5:6:THR:HG22	4:5:101:HIS:HA	1.98	0.45
4:5:190:MET:O	4:5:194:THR:HG23	2.16	0.45
4:V:32:PRO:HB2	4:V:34:ILE:HD11	1.98	0.45
4:W:223:PHE:CD2	4:W:259:GLU:HG3	2.51	0.45
4:X:223:PHE:CD2	4:X:259:GLU:HG3	2.51	0.45
1:A:30:MLY:HB3	1:A:31:PRO:HD2	1.97	0.45
1:A:210:GLN:C	1:A:211:SER:HG	2.11	0.45
1:A:296:MLY:O	1:A:299:LEU:HB2	2.17	0.45
1:A:667:THR:O	1:A:669:PRO:HD3	2.16	0.45
1:A:810:ARG:HG2	1:A:810:ARG:NH1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:476:GLU:OE2	1:D:598:MLY:HH13	2.16	0.45
1:G:144:ARG:HA	1:G:144:ARG:HD2	1.78	0.45
1:J:673:ARG:HA	1:J:673:ARG:HD2	1.79	0.45
1:J:732:ILE:H	1:J:733:PRO:CD	2.23	0.45
1:P:186:THR:O	1:P:190:MLY:HG2	2.17	0.45
1:P:793:ARG:CB	3:R:87:PHE:CE2	2.99	0.45
4:4:223:PHE:CD2	4:4:259:GLU:HG3	2.51	0.45
4:W:190:MET:O	4:W:194:THR:HG23	2.16	0.45
4:Z:32:PRO:HB2	4:Z:34:ILE:HD11	1.98	0.45
1:A:55:MLY:HH23	1:A:60:VAL:HG22	1.99	0.45
1:A:179:GLY:O	1:A:185:LYS:HE2	2.17	0.45
1:A:550:PHE:C	4:V:46:GLY:CA	2.87	0.45
1:A:732:ILE:CG2	1:A:747:LEU:CD1	0.65	0.45
1:D:136:ASN:O	1:D:139:VAL:N	2.47	0.45
1:D:726:VAL:HG12	1:D:785:GLU:CB	2.45	0.45
1:G:411:GLU:H	4:V:333:PRO:HB2	1.80	0.45
1:G:540:CYS:N	4:V:349:LEU:HD11	2.31	0.45
1:J:265:ILE:CG2	1:J:266:GLU:N	2.79	0.45
1:J:408:VAL:HG22	1:J:636:LYS:HG2	1.52	0.45
1:J:476:GLU:OE2	1:J:598:MLY:HH13	2.16	0.45
1:J:640:LYS:HB3	1:J:645:SER:CB	2.42	0.45
1:J:642:LYS:NZ	4:W:340:TRP:O	2.50	0.45
1:J:664:LEU:HD12	1:J:664:LEU:HA	1.52	0.45
1:P:87:MLY:HH12	1:P:87:MLY:HD3	1.61	0.45
1:P:88:ILE:HG22	1:P:90:ASP:C	2.42	0.45
1:P:629:GLU:HB3	1:P:643:GLY:C	2.41	0.45
1:P:783:LEU:N	1:P:783:LEU:CD1	2.78	0.45
1:P:798:LEU:HD12	1:P:798:LEU:HA	1.36	0.45
4:0:110:LEU:O	4:1:195:GLU:CB	2.64	0.45
4:1:366:GLY:O	4:1:369:ILE:HG22	2.16	0.45
4:X:6:THR:HG22	4:X:101:HIS:HA	1.98	0.45
1:A:139:VAL:HG12	1:A:143:TYR:HD2	1.81	0.45
1:A:206:LYS:CE	1:A:217:THR:HG23	2.30	0.45
1:A:229:LEU:HD12	1:A:229:LEU:HA	1.75	0.45
1:A:496:PHE:CE2	1:A:514:ASP:HA	2.50	0.45
1:A:540:CYS:N	4:8:349:LEU:HD11	2.31	0.45
1:A:725:ARG:CG	1:A:733:PRO:CA	2.95	0.45
1:A:835:PHE:O	1:A:839:MLY:N	2.49	0.45
1:D:179:GLY:O	1:D:185:LYS:HE2	2.17	0.45
1:D:330:GLU:O	1:D:333:ALA:HB3	2.17	0.45
1:D:361:TYR:O	1:D:364:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:411:GLU:H	4:9:333:PRO:CB	2.29	0.45
1:D:507:GLY:CA	1:D:762:HIS:CD2	2.98	0.45
1:D:712:PRO:CG	1:D:771:LEU:CB	2.85	0.45
1:D:724:TYR:CB	1:D:782:MLY:CD	2.94	0.45
1:D:732:ILE:CG2	1:D:747:LEU:CD1	0.65	0.45
2:E:137:TRP:CZ3	2:E:145:ALA:N	2.81	0.45
1:G:637:LYS:HD2	4:V:144:ALA:HB3	1.20	0.45
1:G:725:ARG:HH21	1:G:733:PRO:HB2	1.81	0.45
2:H:112:ILE:O	2:H:148:VAL:HA	2.16	0.45
1:J:88:ILE:HG22	1:J:90:ASP:C	2.42	0.45
1:J:715:VAL:HG11	1:J:720:PHE:CD1	2.49	0.45
1:J:725:ARG:HH21	1:J:733:PRO:HB2	1.81	0.45
1:J:810:ARG:HG2	1:J:810:ARG:NH1	2.29	0.45
1:J:817:GLN:HB3	2:K:127:ARG:NH1	2.29	0.45
1:P:30:MLY:HB3	1:P:31:PRO:HD2	1.97	0.45
1:P:322:VAL:HB	1:P:325:ILE:HG13	1.98	0.45
1:P:330:GLU:O	1:P:333:ALA:HB3	2.16	0.45
1:P:543:PRO:CD	4:O:143:TYR:O	2.64	0.45
1:P:695:LEU:HB3	1:P:701:LEU:HD22	1.97	0.45
1:P:799:MET:HB3	3:R:35:ARG:HB3	1.98	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:Z:223:PHE:CD2	4:Z:259:GLU:HG3	2.52	0.45
1:A:411:GLU:H	4:8:333:PRO:CB	2.30	0.45
1:A:752:ASP:OD2	1:A:782:MLY:CG	2.64	0.45
1:D:103:LEU:HD22	1:D:692:LEU:HG	1.98	0.45
1:D:664:LEU:HD12	1:D:664:LEU:HA	1.53	0.45
1:D:725:ARG:HH21	1:D:733:PRO:HB2	1.81	0.45
1:G:173:GLN:HG3	1:G:670:HIS:HD2	1.82	0.45
1:G:485:GLU:OE1	1:G:583:HIS:ND1	2.49	0.45
1:G:755:HIS:CG	1:G:779:ARG:HH12	2.08	0.45
1:G:791:GLN:NE2	3:I:116:GLU:N	2.64	0.45
1:G:794:CYS:O	1:G:797:PHE:HB3	2.17	0.45
1:J:173:GLN:HG3	1:J:670:HIS:HD2	1.82	0.45
1:J:725:ARG:HA	1:J:732:ILE:HG22	1.99	0.45
1:J:793:ARG:HA	3:L:40:ASN:HB3	1.98	0.45
3:L:50:LEU:O	3:L:53:PRO:CD	2.63	0.45
1:P:794:CYS:O	1:P:797:PHE:HB3	2.17	0.45
4:O:190:MET:O	4:O:194:THR:HG23	2.16	0.45
4:3:287:ILE:HG13	4:5:202:THR:HA	1.40	0.45
4:8:324:THR:N	4:V:245:GLY:CA	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:366:GLY:O	4:8:369:ILE:HG22	2.16	0.45
4:V:6:THR:HG22	4:V:101:HIS:HA	1.98	0.45
4:X:190:MET:O	4:X:194:THR:HG23	2.16	0.45
4:Y:190:MET:O	4:Y:194:THR:HG23	2.16	0.45
1:A:641:LYS:CE	1:A:647:GLN:CB	2.74	0.45
1:A:725:ARG:HH21	1:A:733:PRO:HB2	1.81	0.45
2:B:121:LEU:O	2:B:128:PHE:CG	2.61	0.45
1:D:797:PHE:HE2	3:F:126:LEU:HD22	0.51	0.45
1:G:99:GLU:N	1:G:100:PRO:CD	2.79	0.45
1:G:176:LEU:N	1:G:176:LEU:CD1	2.75	0.45
1:G:322:VAL:HB	1:G:325:ILE:HG13	1.98	0.45
1:G:529:PRO:HB2	4:V:354:GLN:HB3	1.98	0.45
1:G:642:LYS:NZ	4:V:340:TRP:O	2.50	0.45
1:G:725:ARG:HA	1:G:732:ILE:HG22	1.99	0.45
2:H:149:ASP:CG	2:H:150:TYR:N	2.49	0.45
1:J:179:GLY:O	1:J:185:LYS:HE2	2.17	0.45
1:P:418:THR:CG2	1:P:419:VAL:N	2.79	0.45
1:P:732:ILE:CG2	1:P:747:LEU:CD1	0.65	0.45
1:P:783:LEU:CD1	1:P:786:ILE:HD11	2.42	0.45
4:0:202:THR:CB	4:Y:287:ILE:H	2.30	0.45
4:0:223:PHE:CD2	4:0:259:GLU:HG3	2.51	0.45
4:1:190:MET:O	4:1:194:THR:HG23	2.16	0.45
4:3:6:THR:HG22	4:3:101:HIS:HA	1.98	0.45
4:7:32:PRO:HB2	4:7:34:ILE:HD11	1.98	0.45
4:7:47:MET:HE2	4:7:47:MET:HB2	1.79	0.45
4:8:6:THR:HG22	4:8:101:HIS:HA	1.98	0.45
4:8:190:MET:O	4:8:194:THR:HG23	2.16	0.45
4:W:286:ASP:HA	4:Y:202:THR:HG22	1.32	0.45
4:X:32:PRO:HB2	4:X:34:ILE:HD11	1.98	0.45
4:X:253:GLU:HA	4:X:256:ARG:CG	2.42	0.45
4:Y:223:PHE:CD2	4:Y:259:GLU:HG3	2.52	0.45
4:Y:253:GLU:HA	4:Y:256:ARG:CG	2.42	0.45
1:A:17:LEU:HD12	1:A:17:LEU:HA	1.68	0.45
1:A:37:SER:O	1:A:38:VAL:HG23	2.17	0.45
1:A:322:VAL:HB	1:A:325:ILE:HG13	1.98	0.45
1:A:794:CYS:O	1:A:797:PHE:HB3	2.17	0.45
1:D:88:ILE:HG22	1:D:90:ASP:C	2.42	0.45
1:D:139:VAL:HG12	1:D:143:TYR:HD2	1.81	0.45
1:D:296:MLY:O	1:D:299:LEU:HB2	2.17	0.45
1:D:326:ASP:O	1:D:330:GLU:HG2	2.16	0.45
1:D:597:GLU:O	1:D:600:MLY:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:LYS:NZ	4:9:340:TRP:O	2.50	0.45
1:D:732:ILE:HG23	1:D:747:LEU:HD12	0.94	0.45
2:E:88:LEU:HB3	2:E:91:ALA:HB2	1.98	0.45
1:G:28:GLN:HB3	1:G:723:ARG:HH22	1.81	0.45
1:G:41:VAL:CG1	1:G:42:HIS:N	2.75	0.45
1:G:136:ASN:HA	1:G:137:PRO:HD3	1.49	0.45
1:G:496:PHE:CE2	1:G:514:ASP:HA	2.50	0.45
1:G:597:GLU:O	1:G:600:MLY:N	2.50	0.45
1:J:410:ASN:HA	4:W:334:GLU:HB3	1.28	0.45
1:J:795:ARG:HA	3:L:118:MET:HE1	1.99	0.45
1:P:99:GLU:N	1:P:100:PRO:CD	2.80	0.45
1:P:173:GLN:HG3	1:P:670:HIS:HD2	1.82	0.45
1:P:476:GLU:OE2	1:P:598:MLY:HH13	2.16	0.45
1:P:524:GLU:HB3	1:P:528:MLY:HG2	1.97	0.45
1:P:739:ASP:OD1	1:P:739:ASP:C	2.58	0.45
1:P:767:PHE:CG	1:P:772:LEU:CD1	3.00	0.45
1:P:800:ARG:CD	3:R:149:VAL:HG13	2.46	0.45
1:P:829:TRP:O	1:P:832:MET:N	2.50	0.45
1:P:835:PHE:O	1:P:839:MLY:N	2.49	0.45
4:0:253:GLU:HA	4:0:256:ARG:CG	2.42	0.45
4:1:32:PRO:HB2	4:1:34:ILE:HD11	1.98	0.45
4:1:322:PRO:CA	4:3:244:ASP:HB2	2.47	0.45
4:2:32:PRO:HB2	4:2:34:ILE:HD11	1.98	0.45
4:5:366:GLY:O	4:5:369:ILE:HG22	2.16	0.45
4:8:287:ILE:HA	4:V:202:THR:HG21	1.59	0.45
4:9:223:PHE:CD2	4:9:259:GLU:HG3	2.52	0.45
4:X:366:GLY:O	4:X:369:ILE:HG22	2.16	0.45
1:A:206:LYS:HD2	1:A:217:THR:CG2	2.17	0.45
1:A:519:LEU:N	1:A:519:LEU:CD1	2.77	0.45
1:A:597:GLU:O	1:A:600:MLY:N	2.50	0.45
1:A:707:CYS:SG	1:A:714:ARG:HD2	2.56	0.45
1:A:732:ILE:HG21	1:A:747:LEU:CD1	0.64	0.45
1:A:813:ILE:CG2	2:B:127:ARG:CG	2.94	0.45
1:D:14:ALA:N	1:D:15:PRO:HD2	2.32	0.45
1:D:37:SER:O	1:D:38:VAL:HG23	2.17	0.45
1:D:136:ASN:HA	1:D:137:PRO:HD3	1.50	0.45
1:D:599:ASN:OD1	1:D:649:VAL:C	2.60	0.45
1:D:708:ARG:O	1:D:710:GLY:N	2.48	0.45
1:D:798:LEU:HD12	1:D:798:LEU:HA	1.36	0.45
1:G:14:ALA:N	1:G:15:PRO:HD2	2.32	0.45
1:G:408:VAL:CG1	4:V:332:PRO:HB3	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:418:THR:CG2	1:G:419:VAL:N	2.79	0.45
1:G:476:GLU:OE2	1:G:598:MLY:HH13	2.16	0.45
1:G:612:GLN:NE2	1:G:627:GLY:H	2.14	0.45
1:G:723:ARG:NH1	1:G:723:ARG:CG	2.79	0.45
1:G:810:ARG:HG2	1:G:810:ARG:NH1	2.28	0.45
1:G:816:ILE:HD11	2:H:100:ALA:HB3	1.99	0.45
1:J:56:GLU:HB2	1:J:59:MLY:CB	2.30	0.45
1:J:326:ASP:O	1:J:330:GLU:HG2	2.16	0.45
1:J:541:MET:CE	4:W:346:LEU:HD12	2.47	0.45
1:J:756:THR:O	1:J:776:GLU:CD	2.59	0.45
1:P:541:MET:CE	4:O:346:LEU:HD12	2.47	0.45
1:P:568:PRO:CG	1:P:578:HIS:H	2.30	0.45
1:P:642:LYS:NZ	4:O:340:TRP:O	2.50	0.45
1:P:715:VAL:HG11	1:P:720:PHE:CD1	2.49	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	2.51	0.45
4:7:223:PHE:CD2	4:7:259:GLU:HG3	2.51	0.45
4:8:32:PRO:HB2	4:8:34:ILE:HD11	1.98	0.45
4:Z:366:GLY:O	4:Z:369:ILE:HG22	2.16	0.45
1:A:195:TYR:CE2	1:A:199:ILE:HD12	2.52	0.45
1:A:224:SER:O	1:A:227:PRO:HD2	2.17	0.45
1:A:289:TYR:OH	1:A:315:VAL:O	2.27	0.45
1:D:226:ASN:N	1:D:227:PRO:HD2	2.32	0.45
1:G:64:THR:HB	1:G:68:GLU:N	2.32	0.45
1:G:296:MLY:O	1:G:299:LEU:HB2	2.17	0.45
1:G:629:GLU:HB3	1:G:643:GLY:C	2.41	0.45
1:G:667:THR:O	1:G:669:PRO:HD3	2.16	0.45
1:G:735:GLY:O	1:G:743:ALA:HA	1.94	0.45
3:I:50:LEU:O	3:I:53:PRO:CD	2.63	0.45
1:J:226:ASN:N	1:J:227:PRO:HD2	2.32	0.45
1:J:322:VAL:CG1	1:J:325:ILE:HD11	2.47	0.45
1:J:464:ILE:CG2	1:J:465:ALA:N	2.80	0.45
1:J:667:THR:O	1:J:669:PRO:HD3	2.16	0.45
1:J:794:CYS:O	1:J:797:PHE:HB3	2.17	0.45
1:P:14:ALA:N	1:P:15:PRO:HD2	2.32	0.45
1:P:326:ASP:O	1:P:330:GLU:HG2	2.16	0.45
1:P:640:LYS:HB3	1:P:645:SER:CB	2.42	0.45
1:P:725:ARG:NH2	3:R:93:VAL:CB	2.71	0.45
1:P:804:ARG:HD3	1:P:808:GLU:OE2	2.16	0.45
1:P:839:MLY:HH13	2:Q:159:HIS:HD2	1.82	0.45
4:Z:6:THR:HG22	4:Z:101:HIS:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:GLU:N	1:A:100:PRO:CD	2.79	0.44
1:A:163:TYR:O	1:A:166:MET:HB3	2.16	0.44
1:A:278:GLN:HE21	1:A:278:GLN:HB3	1.41	0.44
1:A:322:VAL:CG1	1:A:325:ILE:HD11	2.47	0.44
1:A:488:GLN:O	1:A:491:PHE:HB3	2.17	0.44
1:A:725:ARG:CG	1:A:733:PRO:HA	2.43	0.44
1:A:725:ARG:HA	1:A:732:ILE:HG22	1.99	0.44
1:A:798:LEU:HD12	1:A:798:LEU:HA	1.37	0.44
2:B:117:LEU:CG	2:B:147:ASN:OD1	2.52	0.44
1:D:64:THR:HB	1:D:68:GLU:N	2.33	0.44
1:D:163:TYR:O	1:D:166:MET:HB3	2.17	0.44
1:D:186:THR:O	1:D:190:MLY:HG2	2.17	0.44
1:G:791:GLN:CD	3:I:116:GLU:HG3	2.41	0.44
2:H:144:VAL:C	2:H:153:ILE:HD11	2.43	0.44
1:J:14:ALA:N	1:J:15:PRO:HD2	2.32	0.44
1:J:37:SER:O	1:J:38:VAL:HG23	2.17	0.44
1:J:93:MET:HG2	1:J:715:VAL:CA	2.32	0.44
1:J:202:SER:HA	1:J:207:LYS:NZ	2.22	0.44
1:J:597:GLU:O	1:J:600:MLY:N	2.50	0.44
1:J:599:ASN:OD1	1:J:649:VAL:C	2.60	0.44
1:J:689:GLU:HA	1:J:692:LEU:HB2	2.00	0.44
1:J:723:ARG:CG	1:J:723:ARG:NH1	2.79	0.44
1:J:791:GLN:HE22	3:L:115:GLY:CA	2.30	0.44
2:K:129:THR:HG23	2:K:132:GLU:OE1	2.17	0.44
1:P:37:SER:O	1:P:38:VAL:HG23	2.17	0.44
1:P:64:THR:HB	1:P:68:GLU:N	2.32	0.44
1:P:129:TYR:HD1	1:P:129:TYR:HA	1.65	0.44
1:P:226:ASN:N	1:P:227:PRO:HD2	2.32	0.44
1:P:296:MLY:O	1:P:299:LEU:HB2	2.17	0.44
1:P:332:MET:O	1:P:336:SER:OG	2.27	0.44
1:P:464:ILE:CG2	1:P:465:ALA:N	2.80	0.44
1:P:488:GLN:O	1:P:491:PHE:HB3	2.16	0.44
1:P:839:MLY:CH1	2:Q:159:HIS:HD2	2.30	0.44
2:Q:112:ILE:O	2:Q:148:VAL:HA	2.16	0.44
4:5:223:PHE:HB3	4:5:259:GLU:OE2	2.18	0.44
4:9:223:PHE:HB3	4:9:259:GLU:OE2	2.17	0.44
4:V:223:PHE:CD2	4:V:259:GLU:HG3	2.52	0.44
1:A:64:THR:HB	1:A:68:GLU:N	2.33	0.44
1:A:783:LEU:N	1:A:783:LEU:CD1	2.79	0.44
1:D:97:LEU:HD12	1:D:97:LEU:HA	1.67	0.44
1:D:488:GLN:O	1:D:491:PHE:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:568:PRO:CG	1:D:578:HIS:H	2.30	0.44
2:E:112:ILE:O	2:E:148:VAL:N	2.50	0.44
1:G:411:GLU:H	4:V:333:PRO:CB	2.30	0.44
1:G:485:GLU:HA	1:G:584:TYR:HE2	1.82	0.44
1:G:488:GLN:O	1:G:491:PHE:HB3	2.17	0.44
1:G:519:LEU:N	1:G:519:LEU:CD1	2.77	0.44
1:G:530:MET:CE	4:V:354:GLN:CB	2.95	0.44
1:J:296:MLY:O	1:J:299:LEU:HB2	2.17	0.44
1:J:488:GLN:O	1:J:491:PHE:HB3	2.17	0.44
1:J:629:GLU:HB3	1:J:643:GLY:C	2.41	0.44
1:P:409:GLY:N	1:P:636:LYS:CD	2.70	0.44
1:P:599:ASN:OD1	1:P:649:VAL:C	2.60	0.44
4:0:32:PRO:HB2	4:0:34:ILE:HD11	1.98	0.44
4:3:32:PRO:HB2	4:3:34:ILE:HD11	1.98	0.44
4:4:253:GLU:HA	4:4:256:ARG:CG	2.42	0.44
4:8:223:PHE:CD2	4:8:259:GLU:HG3	2.51	0.44
4:8:223:PHE:HB3	4:8:259:GLU:OE2	2.17	0.44
4:9:190:MET:O	4:9:194:THR:HG23	2.16	0.44
4:W:32:PRO:HB2	4:W:34:ILE:HD11	1.98	0.44
4:W:223:PHE:HB3	4:W:259:GLU:OE2	2.18	0.44
4:Y:32:PRO:HB2	4:Y:34:ILE:HD11	1.98	0.44
1:A:48:VAL:HA	1:A:104:TYR:OH	2.18	0.44
1:A:106:LEU:HD12	1:A:106:LEU:HA	1.79	0.44
1:A:186:THR:O	1:A:190:MLY:HG2	2.17	0.44
1:A:346:ASP:O	1:A:350:ALA:N	2.46	0.44
1:A:629:GLU:HB3	1:A:643:GLY:C	2.41	0.44
1:A:642:LYS:NZ	4:8:340:TRP:O	2.50	0.44
2:B:129:THR:HG23	2:B:132:GLU:OE1	2.18	0.44
3:C:69:LEU:HB3	3:C:70:PRO:HD3	1.99	0.44
1:D:136:ASN:C	1:D:138:MLY:N	2.75	0.44
1:D:278:GLN:HE21	1:D:278:GLN:HB3	1.42	0.44
1:D:675:ILE:HG23	1:D:676:ILE:N	2.32	0.44
3:F:69:LEU:HB3	3:F:70:PRO:HD3	1.99	0.44
1:G:37:SER:O	1:G:38:VAL:HG23	2.17	0.44
1:G:155:ILE:HG22	1:G:156:PHE:N	2.33	0.44
1:G:179:GLY:O	1:G:185:LYS:HE2	2.17	0.44
1:G:567:LYS:HZ2	4:X:92:ASN:ND2	1.80	0.44
1:G:725:ARG:CG	1:G:733:PRO:HA	2.43	0.44
1:G:817:GLN:CB	2:H:127:ARG:CD	2.94	0.44
1:G:829:TRP:O	1:G:832:MET:N	2.50	0.44
1:J:64:THR:HB	1:J:68:GLU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:534:SER:HB2	4:W:354:GLN:HE22	1.56	0.44
1:J:568:PRO:CG	1:J:578:HIS:H	2.30	0.44
1:J:639:GLY:H	4:W:344:SER:HB3	1.83	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:P:224:SER:O	1:P:227:PRO:HD2	2.17	0.44
1:P:689:GLU:HA	1:P:692:LEU:HB2	2.00	0.44
1:P:725:ARG:CG	1:P:733:PRO:CA	2.95	0.44
1:P:804:ARG:NH2	3:R:149:VAL:CB	2.79	0.44
2:Q:137:TRP:CZ3	2:Q:145:ALA:N	2.81	0.44
4:O:290:ARG:HH21	4:2:202:THR:HG22	1.82	0.44
4:5:47:MET:HE2	4:5:47:MET:HB2	1.79	0.44
4:7:223:PHE:HB3	4:7:259:GLU:OE2	2.18	0.44
4:V:190:MET:O	4:V:194:THR:HG23	2.16	0.44
4:Y:223:PHE:HB3	4:Y:259:GLU:OE2	2.18	0.44
1:A:88:ILE:HG22	1:A:90:ASP:C	2.42	0.44
1:D:166:MET:CE	1:D:254:PHE:HB2	2.46	0.44
1:D:322:VAL:CG1	1:D:325:ILE:HD11	2.47	0.44
1:D:410:ASN:HA	4:9:334:GLU:HB3	1.29	0.44
1:D:689:GLU:HA	1:D:692:LEU:HB2	1.99	0.44
1:D:692:LEU:O	1:D:696:ARG:HG3	2.18	0.44
2:E:144:VAL:C	2:E:153:ILE:HD11	2.42	0.44
1:G:103:LEU:HD22	1:G:692:LEU:HG	1.98	0.44
1:G:493:HIS:O	1:G:496:PHE:HB3	2.18	0.44
1:G:692:LEU:O	1:G:696:ARG:HG3	2.18	0.44
1:G:739:ASP:OD1	1:G:739:ASP:C	2.58	0.44
1:G:795:ARG:CZ	3:I:116:GLU:OE1	2.58	0.44
1:G:819:ASN:HD21	2:H:92:ASP:CA	2.30	0.44
2:H:129:THR:HG23	2:H:132:GLU:OE1	2.17	0.44
1:J:99:GLU:N	1:J:100:PRO:CD	2.80	0.44
1:J:543:PRO:CD	4:W:143:TYR:O	2.64	0.44
1:J:830:PRO:HB3	2:K:67:MET:CE	2.46	0.44
1:J:835:PHE:O	1:J:839:MLY:N	2.49	0.44
2:K:113:LYS:C	2:K:147:ASN:HB2	2.43	0.44
1:P:202:SER:HA	1:P:207:LYS:NZ	2.22	0.44
1:P:322:VAL:HA	1:P:323:PRO:HD3	1.87	0.44
1:P:436:MLY:HE3	1:P:626:TYR:HE1	1.77	0.44
1:P:597:GLU:O	1:P:600:MLY:N	2.50	0.44
1:P:715:VAL:HG12	1:P:720:PHE:HB2	2.00	0.44
1:P:793:ARG:O	1:P:797:PHE:N	2.39	0.44
4:O:223:PHE:HB3	4:O:259:GLU:OE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:6:THR:HG22	4:1:101:HIS:HA	1.98	0.44
4:2:223:PHE:HB3	4:2:259:GLU:OE2	2.18	0.44
4:4:253:GLU:H	4:4:253:GLU:CD	2.25	0.44
4:5:253:GLU:CD	4:5:253:GLU:H	2.25	0.44
4:9:32:PRO:HB2	4:9:34:ILE:HD11	1.98	0.44
4:V:287:ILE:HG13	4:X:202:THR:HG23	1.65	0.44
4:W:253:GLU:H	4:W:253:GLU:CD	2.25	0.44
1:A:41:VAL:CG1	1:A:42:HIS:N	2.75	0.44
1:A:123:CYS:CB	1:A:158:ILE:HD13	2.48	0.44
1:A:193:ILE:HD11	1:A:250:ILE:CD1	2.48	0.44
1:A:226:ASN:N	1:A:227:PRO:HD2	2.32	0.44
1:A:516:GLY:O	1:A:518:ASP:N	2.51	0.44
1:A:692:LEU:O	1:A:696:ARG:HG3	2.18	0.44
1:A:711:PHE:HB3	1:A:766:PHE:HB3	1.99	0.44
3:C:101:THR:HA	3:C:137:ILE:O	2.18	0.44
1:D:106:LEU:HD12	1:D:106:LEU:HA	1.79	0.44
1:D:711:PHE:HB3	1:D:766:PHE:HB3	1.99	0.44
1:D:834:LEU:CD2	2:E:50:THR:HG22	2.47	0.44
2:E:129:THR:HG23	2:E:132:GLU:OE1	2.18	0.44
1:G:88:ILE:HG22	1:G:90:ASP:C	2.42	0.44
1:G:136:ASN:O	1:G:139:VAL:N	2.47	0.44
1:G:502:GLU:OE2	1:G:760:PHE:O	2.35	0.44
1:G:715:VAL:HG11	1:G:720:PHE:CD1	2.50	0.44
1:J:103:LEU:HD22	1:J:692:LEU:HG	1.98	0.44
1:J:144:ARG:HA	1:J:144:ARG:HD2	1.78	0.44
1:J:642:LYS:CB	4:W:24:ASP:O	2.60	0.44
1:J:792:ALA:HB2	3:L:42:THR:H	1.79	0.44
1:J:795:ARG:HE	3:L:116:GLU:HB3	1.81	0.44
1:P:195:TYR:CE2	1:P:199:ILE:HD12	2.52	0.44
1:P:346:ASP:O	1:P:350:ALA:N	2.45	0.44
1:P:411:GLU:H	4:0:333:PRO:CB	2.30	0.44
1:P:516:GLY:O	1:P:518:ASP:N	2.51	0.44
1:P:725:ARG:NE	3:R:93:VAL:HG11	2.32	0.44
1:P:776:GLU:O	1:P:780:ASP:N	2.45	0.44
2:Q:113:LYS:C	2:Q:147:ASN:HB2	2.43	0.44
2:Q:129:THR:HG23	2:Q:132:GLU:OE1	2.17	0.44
4:9:253:GLU:H	4:9:253:GLU:CD	2.26	0.44
4:X:253:GLU:CD	4:X:253:GLU:H	2.25	0.44
4:Z:220:ALA:HB3	4:Z:223:PHE:CD1	2.53	0.44
1:A:103:LEU:HD22	1:A:692:LEU:HG	1.98	0.44
1:A:485:GLU:HA	1:A:584:TYR:HE2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:GLU:HG3	1:A:760:PHE:HD1	1.52	0.44
1:A:641:LYS:C	4:8:22:ALA:O	2.60	0.44
1:A:655:GLU:CD	4:8:1:ASP:HB2	2.43	0.44
2:B:112:ILE:O	2:B:148:VAL:HA	2.16	0.44
1:D:202:SER:HA	1:D:207:LYS:NZ	2.23	0.44
1:G:214:MET:CA	1:G:340:ILE:HD11	2.45	0.44
1:G:330:GLU:O	1:G:333:ALA:HB3	2.17	0.44
1:G:725:ARG:CZ	1:G:733:PRO:CB	2.83	0.44
3:I:50:LEU:O	3:I:53:PRO:HG2	2.18	0.44
1:J:195:TYR:CE2	1:J:199:ILE:HD12	2.52	0.44
1:J:692:LEU:O	1:J:696:ARG:HG3	2.18	0.44
1:J:710:GLY:HA2	1:J:772:LEU:HD21	1.77	0.44
3:L:119:THR:O	3:L:123:VAL:HG23	2.18	0.44
3:L:122:GLU:HA	3:L:125:GLU:OE1	2.18	0.44
1:P:136:ASN:C	1:P:138:MLY:N	2.75	0.44
1:P:308:ASN:HA	1:P:309:PRO:HD2	1.88	0.44
1:P:354:LEU:HD12	1:P:354:LEU:HA	1.55	0.44
1:P:493:HIS:O	1:P:496:PHE:HB3	2.18	0.44
1:P:612:GLN:NE2	1:P:627:GLY:H	2.14	0.44
1:P:667:THR:O	1:P:669:PRO:HD3	2.16	0.44
1:P:751:GLY:C	1:P:753:VAL:HG22	2.43	0.44
1:P:796:GLY:CA	3:R:40:ASN:CG	2.84	0.44
3:R:122:GLU:HA	3:R:125:GLU:OE1	2.18	0.44
4:8:193:LEU:O	4:8:198:TYR:HD2	2.01	0.44
4:V:223:PHE:HB3	4:V:259:GLU:OE2	2.18	0.44
4:X:220:ALA:HB3	4:X:223:PHE:CD1	2.53	0.44
4:Z:190:MET:O	4:Z:194:THR:HG23	2.16	0.44
1:A:14:ALA:N	1:A:15:PRO:HD2	2.32	0.44
1:A:485:GLU:OE2	1:A:584:TYR:N	2.50	0.44
1:A:639:GLY:H	4:8:344:SER:HB3	1.82	0.44
1:D:123:CYS:CB	1:D:158:ILE:HD13	2.48	0.44
1:D:485:GLU:OE1	1:D:583:HIS:ND1	2.49	0.44
1:D:541:MET:HG2	4:9:345:ILE:HG22	2.00	0.44
2:E:112:ILE:O	2:E:148:VAL:HA	2.17	0.44
1:G:224:SER:O	1:G:227:PRO:HD2	2.17	0.44
1:G:226:ASN:HB2	1:G:227:PRO:CD	2.47	0.44
1:G:322:VAL:CG1	1:G:325:ILE:HD11	2.47	0.44
1:G:599:ASN:OD1	1:G:649:VAL:C	2.60	0.44
1:G:725:ARG:CG	1:G:733:PRO:CA	2.95	0.44
1:J:123:CYS:CB	1:J:158:ILE:HD13	2.48	0.44
1:J:139:VAL:HG12	1:J:143:TYR:HD2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:163:TYR:O	1:J:166:MET:HB3	2.17	0.44
1:J:485:GLU:OE1	1:J:583:HIS:ND1	2.49	0.44
1:J:516:GLY:O	1:J:518:ASP:N	2.51	0.44
1:J:675:ILE:HG23	1:J:676:ILE:N	2.32	0.44
1:J:725:ARG:CZ	1:J:737:PHE:CZ	3.01	0.44
1:J:732:ILE:HG23	1:J:747:LEU:HD12	0.95	0.44
1:J:795:ARG:CD	3:L:116:GLU:OE2	2.64	0.44
3:L:101:THR:HA	3:L:137:ILE:O	2.18	0.44
1:P:55:MLY:HH23	1:P:60:VAL:HG22	1.99	0.44
1:P:278:GLN:HE21	1:P:278:GLN:HB3	1.42	0.44
1:P:642:LYS:HB2	4:O:24:ASP:O	1.88	0.44
1:P:725:ARG:HA	1:P:732:ILE:HG22	1.99	0.44
1:P:793:ARG:HH22	3:R:147:MET:CE	2.23	0.44
4:1:220:ALA:HB3	4:1:223:PHE:CD1	2.53	0.44
4:5:193:LEU:O	4:5:198:TYR:HD2	2.01	0.44
4:9:253:GLU:HA	4:9:256:ARG:CG	2.42	0.44
4:V:220:ALA:HB3	4:V:223:PHE:CD1	2.53	0.44
1:A:97:LEU:HD12	1:A:97:LEU:HA	1.67	0.44
1:A:173:GLN:HG3	1:A:670:HIS:HD2	1.82	0.44
1:A:174:SER:OG	1:A:669:PRO:HA	2.18	0.44
1:A:439:LEU:N	1:A:439:LEU:CD1	2.81	0.44
1:A:502:GLU:CD	1:A:764:MLY:C	2.83	0.44
1:A:530:MET:CE	4:8:354:GLN:CB	2.96	0.44
1:A:530:MET:CB	4:8:354:GLN:CB	2.95	0.44
1:A:599:ASN:OD1	1:A:649:VAL:C	2.60	0.44
1:A:675:ILE:HG23	1:A:676:ILE:N	2.32	0.44
1:A:709:LYS:O	1:A:710:GLY:HA2	2.12	0.44
1:A:715:VAL:HG12	1:A:720:PHE:HB2	2.00	0.44
1:A:754:ASP:C	1:A:756:THR:H	2.26	0.44
1:A:768:MLY:HB3	1:A:771:LEU:CG	2.40	0.44
3:C:122:GLU:HA	3:C:125:GLU:OE1	2.18	0.44
1:D:195:TYR:CE2	1:D:199:ILE:HD12	2.52	0.44
1:D:541:MET:HB3	4:9:345:ILE:HG22	2.00	0.44
1:G:123:CYS:CB	1:G:158:ILE:HD13	2.48	0.44
1:G:163:TYR:O	1:G:166:MET:HB3	2.17	0.44
1:G:195:TYR:CE2	1:G:199:ILE:HD12	2.52	0.44
1:G:410:ASN:HA	4:V:334:GLU:HB3	1.28	0.44
1:G:675:ILE:HG23	1:G:676:ILE:N	2.32	0.44
1:G:834:LEU:HD12	2:H:51:PHE:CD1	2.51	0.44
1:J:129:TYR:HD1	1:J:129:TYR:HA	1.65	0.44
1:J:411:GLU:H	4:W:333:PRO:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:C	4:W:22:ALA:O	2.60	0.44
1:P:123:CYS:CB	1:P:158:ILE:HD13	2.48	0.44
1:P:155:ILE:HG22	1:P:156:PHE:N	2.32	0.44
1:P:193:ILE:HD11	1:P:250:ILE:CD1	2.47	0.44
1:P:792:ALA:CA	3:R:42:THR:HG23	2.40	0.44
2:Q:144:VAL:C	2:Q:153:ILE:HD11	2.42	0.44
4:O:243:PRO:CB	4:Y:291:LYS:HZ1	2.30	0.44
4:1:204:ALA:H	4:Z:287:ILE:HG22	1.75	0.44
4:2:223:PHE:CD2	4:2:259:GLU:HG3	2.52	0.44
4:W:205:GLU:O	4:W:208:ILE:HG22	2.18	0.44
4:Z:223:PHE:HB3	4:Z:259:GLU:OE2	2.18	0.44
1:A:123:CYS:HB2	1:A:158:ILE:HD13	2.00	0.44
1:A:391:GLY:HA3	1:A:616:VAL:HG23	2.00	0.44
1:A:541:MET:CE	4:8:346:LEU:HD12	2.48	0.44
1:A:725:ARG:CZ	1:A:737:PHE:CZ	3.01	0.44
1:A:813:ILE:HG21	2:B:127:ARG:CG	2.48	0.44
1:D:266:GLU:OE1	1:D:659:MLY:NZ	2.51	0.44
1:D:418:THR:CG2	1:D:419:VAL:N	2.79	0.44
1:D:485:GLU:OE2	1:D:584:TYR:N	2.50	0.44
1:D:667:THR:O	1:D:669:PRO:HD3	2.17	0.44
3:F:101:THR:HA	3:F:137:ILE:O	2.18	0.44
1:G:14:ALA:N	1:G:15:PRO:CD	2.81	0.44
1:G:439:LEU:N	1:G:439:LEU:CD1	2.81	0.44
1:G:789:ALA:HB2	3:I:81:GLN:CD	2.43	0.44
1:J:55:MLY:HH23	1:J:60:VAL:HG22	1.99	0.44
1:J:202:SER:C	1:J:207:LYS:HE3	2.43	0.44
1:J:439:LEU:N	1:J:439:LEU:CD1	2.81	0.44
1:J:493:HIS:O	1:J:496:PHE:HB3	2.18	0.44
1:J:787:ILE:HG21	1:J:787:ILE:HD13	1.67	0.44
1:J:797:PHE:CE1	3:L:146:ILE:HA	2.37	0.44
3:L:50:LEU:O	3:L:53:PRO:HG2	2.18	0.44
1:P:139:VAL:HG12	1:P:143:TYR:HD2	1.81	0.44
1:P:485:GLU:HA	1:P:584:TYR:HE2	1.83	0.44
1:P:725:ARG:CZ	1:P:737:PHE:CZ	3.01	0.44
1:P:800:ARG:O	3:R:149:VAL:CG2	2.59	0.44
2:Q:112:ILE:O	2:Q:148:VAL:N	2.50	0.44
4:O:253:GLU:CD	4:O:253:GLU:H	2.25	0.44
4:3:253:GLU:CD	4:3:253:GLU:H	2.26	0.44
4:8:253:GLU:CD	4:8:253:GLU:H	2.25	0.44
4:V:366:GLY:O	4:V:369:ILE:HG22	2.16	0.44
4:Y:253:GLU:H	4:Y:253:GLU:CD	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:149:GLN:CD	1:A:718:ALA:H	2.26	0.43
1:A:217:THR:HG22	1:A:218:LEU:N	2.33	0.43
2:B:144:VAL:C	2:B:153:ILE:HD11	2.42	0.43
1:D:48:VAL:HA	1:D:104:TYR:OH	2.17	0.43
1:D:123:CYS:HB2	1:D:158:ILE:HD13	2.00	0.43
1:D:173:GLN:HG3	1:D:670:HIS:HD2	1.82	0.43
1:D:439:LEU:N	1:D:439:LEU:CD1	2.81	0.43
1:D:516:GLY:O	1:D:518:ASP:N	2.51	0.43
1:D:530:MET:CB	4:9:354:GLN:CB	2.95	0.43
1:D:641:LYS:C	4:9:22:ALA:O	2.60	0.43
1:D:727:LEU:N	1:D:782:MLY:HE3	2.29	0.43
1:D:747:LEU:HD23	1:D:747:LEU:C	2.43	0.43
1:G:136:ASN:C	1:G:138:MLY:N	2.75	0.43
1:G:193:ILE:HD11	1:G:250:ILE:CD1	2.48	0.43
1:G:578:HIS:HB3	1:G:592:ILE:CD1	2.38	0.43
1:G:715:VAL:HG12	1:G:720:PHE:HB2	2.00	0.43
1:G:725:ARG:CZ	1:G:737:PHE:CZ	3.01	0.43
1:J:48:VAL:HA	1:J:104:TYR:OH	2.18	0.43
1:J:174:SER:OG	1:J:669:PRO:HA	2.18	0.43
1:J:246:PHE:HB3	1:J:270:LEU:HD12	2.00	0.43
1:J:443:ILE:HG22	1:J:444:ARG:N	2.29	0.43
1:J:529:PRO:HB3	4:W:354:GLN:HA	1.99	0.43
1:J:541:MET:HB3	4:W:345:ILE:HG22	2.00	0.43
1:J:756:THR:HG23	1:J:776:GLU:OE1	2.12	0.43
1:J:759:ALA:O	1:J:766:PHE:N	2.32	0.43
3:L:69:LEU:HB3	3:L:70:PRO:HD3	1.99	0.43
1:P:17:LEU:HD12	1:P:17:LEU:HA	1.68	0.43
1:P:202:SER:C	1:P:207:LYS:HE3	2.43	0.43
1:P:439:LEU:N	1:P:439:LEU:CD1	2.81	0.43
1:P:544:LYS:HZ3	4:2:45:VAL:CG2	2.29	0.43
1:P:675:ILE:HG23	1:P:676:ILE:N	2.33	0.43
4:2:253:GLU:CD	4:2:253:GLU:H	2.25	0.43
4:3:193:LEU:O	4:3:198:TYR:HD2	2.01	0.43
4:3:287:ILE:HB	4:5:204:ALA:H	1.83	0.43
4:4:193:LEU:O	4:4:198:TYR:HD2	2.01	0.43
4:7:253:GLU:H	4:7:253:GLU:CD	2.25	0.43
4:7:288:ASP:CA	4:9:204:ALA:HB2	2.31	0.43
4:X:290:ARG:NH2	4:Z:201:VAL:HG21	2.33	0.43
1:A:201:ALA:O	1:A:202:SER:OG	2.36	0.43
1:A:499:GLU:CD	1:A:766:PHE:HE2	2.17	0.43
1:A:534:SER:CB	4:8:351:THR:HA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:673:ARG:HA	1:A:673:ARG:HD2	1.79	0.43
1:A:701:LEU:HA	1:A:701:LEU:HD12	1.54	0.43
1:A:739:ASP:OD1	1:A:739:ASP:C	2.58	0.43
2:B:113:LYS:C	2:B:147:ASN:HB2	2.43	0.43
1:D:55:MLY:HH23	1:D:60:VAL:HG22	1.99	0.43
1:D:206:LYS:CE	1:D:217:THR:HG23	2.30	0.43
1:D:485:GLU:HA	1:D:584:TYR:HE2	1.83	0.43
1:D:701:LEU:HD12	1:D:701:LEU:HA	1.55	0.43
2:E:123:THR:HA	3:F:19:ARG:HH12	1.83	0.43
3:F:122:GLU:HA	3:F:125:GLU:OE1	2.18	0.43
1:G:48:VAL:HA	1:G:104:TYR:OH	2.18	0.43
1:G:332:MET:H	1:G:332:MET:HG2	1.52	0.43
1:G:391:GLY:HA3	1:G:616:VAL:HG23	2.01	0.43
1:G:639:GLY:H	4:V:344:SER:HB3	1.83	0.43
3:I:101:THR:HA	3:I:137:ILE:O	2.18	0.43
1:J:193:ILE:HD11	1:J:250:ILE:CD1	2.48	0.43
1:J:206:LYS:CE	1:J:217:THR:HG23	2.29	0.43
1:J:409:GLY:N	1:J:636:LYS:CD	2.70	0.43
2:K:114:LYS:CG	2:K:146:GLY:HA2	2.46	0.43
1:P:93:MET:C	1:P:713:SER:HB3	2.42	0.43
1:P:166:MET:CE	1:P:254:PHE:HB2	2.46	0.43
1:P:174:SER:OG	1:P:669:PRO:HA	2.18	0.43
1:P:179:GLY:O	1:P:185:LYS:HE2	2.17	0.43
1:P:210:GLN:C	1:P:211:SER:HG	2.18	0.43
1:P:529:PRO:HB3	4:0:354:GLN:HA	2.00	0.43
1:P:530:MET:CB	4:0:354:GLN:CB	2.95	0.43
1:P:639:GLY:H	4:0:344:SER:HB3	1.83	0.43
1:P:747:LEU:HD23	1:P:747:LEU:C	2.43	0.43
1:P:793:ARG:NH2	3:R:87:PHE:CE1	2.80	0.43
1:P:804:ARG:O	1:P:808:GLU:CG	2.66	0.43
4:2:205:GLU:O	4:2:208:ILE:HG22	2.18	0.43
4:2:290:ARG:CZ	4:4:202:THR:HG22	2.37	0.43
4:4:149:THR:HA	4:4:165:ILE:O	2.19	0.43
4:4:223:PHE:HB3	4:4:259:GLU:OE2	2.18	0.43
4:8:220:ALA:HB3	4:8:223:PHE:CD1	2.53	0.43
4:V:253:GLU:CD	4:V:253:GLU:H	2.25	0.43
4:X:286:ASP:OD2	4:Z:203:THR:HG22	2.18	0.43
4:X:287:ILE:O	4:Z:205:GLU:OE2	2.36	0.43
1:A:40:VAL:HG23	1:A:76:GLN:O	2.18	0.43
1:A:86:ASP:OD2	1:A:87:MLY:HH22	2.18	0.43
1:A:94:MET:O	1:A:713:SER:CB	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ARG:CD	1:A:117:THR:HB	2.48	0.43
1:A:496:PHE:HB2	1:A:515:PHE:CD2	2.53	0.43
1:A:823:PHE:HE1	2:B:161:GLU:H	1.65	0.43
3:C:52:ASN:CB	3:C:53:PRO:CD	2.92	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:218:LEU:HD22	1:D:222:ILE:HG13	1.95	0.43
1:D:346:ASP:O	1:D:350:ALA:N	2.46	0.43
1:D:391:GLY:HA3	1:D:616:VAL:HG23	2.00	0.43
1:D:673:ARG:HD2	1:D:673:ARG:HA	1.79	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CZ	3.01	0.43
1:D:810:ARG:HG2	1:D:810:ARG:NH1	2.29	0.43
1:G:166:MET:HE1	1:G:254:PHE:CB	2.46	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	2.49	0.43
1:G:409:GLY:HA3	4:V:332:PRO:C	2.43	0.43
3:I:69:LEU:HB3	3:I:70:PRO:HD3	1.99	0.43
3:I:119:THR:O	3:I:123:VAL:HG23	2.18	0.43
1:J:136:ASN:C	1:J:138:MLY:N	2.75	0.43
1:J:354:LEU:HD12	1:J:354:LEU:HA	1.55	0.43
1:J:391:GLY:HA3	1:J:616:VAL:HG23	2.01	0.43
1:J:496:PHE:HB2	1:J:515:PHE:CD2	2.53	0.43
1:J:541:MET:HG2	4:W:345:ILE:HG22	2.00	0.43
1:J:661:MET:HE3	1:J:661:MET:HB3	1.74	0.43
2:K:137:TRP:CA	2:K:145:ALA:HB2	2.37	0.43
1:P:103:LEU:HD22	1:P:692:LEU:HG	1.98	0.43
1:P:391:GLY:HA3	1:P:616:VAL:HG23	2.01	0.43
1:P:485:GLU:OE1	1:P:583:HIS:ND1	2.49	0.43
1:P:584:TYR:CD1	1:P:584:TYR:C	2.96	0.43
4:O:193:LEU:O	4:O:198:TYR:HD2	2.01	0.43
4:1:223:PHE:HB3	4:1:259:GLU:OE2	2.18	0.43
4:2:290:ARG:NH1	4:4:202:THR:CG2	2.75	0.43
4:3:220:ALA:HB3	4:3:223:PHE:CD1	2.53	0.43
4:4:205:GLU:O	4:4:208:ILE:HG22	2.18	0.43
4:7:193:LEU:O	4:7:198:TYR:HD2	2.01	0.43
4:9:47:MET:HE2	4:9:47:MET:HB2	1.79	0.43
4:W:149:THR:HA	4:W:165:ILE:O	2.19	0.43
4:X:223:PHE:HB3	4:X:259:GLU:OE2	2.18	0.43
4:Z:193:LEU:O	4:Z:198:TYR:HD2	2.01	0.43
1:A:14:ALA:N	1:A:15:PRO:CD	2.81	0.43
1:A:322:VAL:CG1	1:A:325:ILE:HG13	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:GLU:HG2	1:A:330:GLU:H	1.55	0.43
1:A:348:MLY:HH12	1:A:348:MLY:HD2	1.82	0.43
1:A:409:GLY:HA3	4:8:332:PRO:C	2.43	0.43
1:A:505:MLY:HB2	1:A:762:HIS:N	2.31	0.43
1:A:775:LEU:HA	1:A:775:LEU:HD12	1.71	0.43
1:A:823:PHE:HE1	2:B:160:GLY:C	2.27	0.43
1:D:41:VAL:CG1	1:D:42:HIS:N	2.75	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HG13	2.49	0.43
1:D:400:ALA:CB	1:D:606:THR:HG22	2.48	0.43
1:D:493:HIS:O	1:D:496:PHE:HB3	2.18	0.43
1:D:541:MET:CE	4:9:346:LEU:HD12	2.47	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CE1	3.02	0.43
1:D:733:PRO:C	1:D:737:PHE:CE1	2.96	0.43
1:D:751:GLY:C	1:D:753:VAL:HG22	2.43	0.43
1:D:829:TRP:O	1:D:832:MET:N	2.50	0.43
3:F:119:THR:O	3:F:123:VAL:HG23	2.18	0.43
1:G:174:SER:OG	1:G:669:PRO:HA	2.18	0.43
1:G:217:THR:HG22	1:G:218:LEU:N	2.34	0.43
1:G:226:ASN:N	1:G:227:PRO:HD2	2.32	0.43
1:G:530:MET:HE3	4:V:354:GLN:HG2	1.89	0.43
1:G:641:LYS:C	4:V:22:ALA:O	2.61	0.43
1:G:655:GLU:CD	4:V:1:ASP:HB2	2.44	0.43
1:G:692:LEU:HD23	1:G:692:LEU:HA	1.84	0.43
1:G:724:TYR:HB3	1:G:727:LEU:CD1	2.48	0.43
1:G:751:GLY:C	1:G:753:VAL:HG22	2.43	0.43
1:G:754:ASP:C	1:G:756:THR:H	2.27	0.43
3:I:122:GLU:HA	3:I:125:GLU:OE1	2.18	0.43
1:J:400:ALA:CB	1:J:606:THR:HG22	2.49	0.43
1:J:724:TYR:HB3	1:J:727:LEU:CD1	2.48	0.43
1:J:751:GLY:C	1:J:753:VAL:HG22	2.43	0.43
1:P:93:MET:O	1:P:713:SER:HB3	2.17	0.43
1:P:400:ALA:CB	1:P:606:THR:HG22	2.49	0.43
1:P:787:ILE:HG23	1:P:791:GLN:HG3	2.00	0.43
4:1:193:LEU:O	4:1:198:TYR:HD2	2.01	0.43
4:1:253:GLU:H	4:1:253:GLU:CD	2.25	0.43
4:2:149:THR:HA	4:2:165:ILE:O	2.19	0.43
4:7:287:ILE:CB	4:9:204:ALA:H	2.13	0.43
4:8:149:THR:HA	4:8:165:ILE:O	2.19	0.43
4:V:290:ARG:NH1	4:X:202:THR:CG2	2.81	0.43
4:Y:193:LEU:O	4:Y:198:TYR:HD2	2.01	0.43
4:Y:205:GLU:O	4:Y:208:ILE:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:ALA:HB1	1:A:152:PRO:HD2	2.01	0.43
1:A:266:GLU:OE1	1:A:659:MLY:NZ	2.51	0.43
1:A:485:GLU:OE1	1:A:583:HIS:ND1	2.49	0.43
1:A:537:GLU:OE1	4:8:350:SER:HA	2.19	0.43
1:A:715:VAL:HG11	1:A:720:PHE:CD1	2.50	0.43
1:A:751:GLY:C	1:A:753:VAL:HG22	2.43	0.43
1:D:202:SER:C	1:D:207:LYS:HE3	2.44	0.43
1:D:223:ILE:C	1:D:225:ALA:N	2.76	0.43
1:D:224:SER:O	1:D:227:PRO:HD2	2.17	0.43
1:D:246:PHE:HB3	1:D:270:LEU:HD12	2.01	0.43
1:D:354:LEU:HD12	1:D:354:LEU:HA	1.56	0.43
1:D:715:VAL:HG12	1:D:720:PHE:HB2	2.00	0.43
1:D:732:ILE:HD11	1:D:782:MLY:HH11	1.95	0.43
1:G:201:ALA:O	1:G:202:SER:OG	2.36	0.43
1:G:295:MLY:CE	1:G:332:MET:CE	2.97	0.43
1:G:496:PHE:HB2	1:G:515:PHE:CD2	2.53	0.43
1:G:541:MET:CE	4:V:346:LEU:HD12	2.48	0.43
1:G:787:ILE:HG21	1:G:787:ILE:HD13	1.67	0.43
1:J:64:THR:CG2	1:J:65:GLU:H	2.31	0.43
1:J:217:THR:HG22	1:J:218:LEU:N	2.34	0.43
1:J:308:ASN:HA	1:J:309:PRO:HD2	1.88	0.43
1:J:322:VAL:CG1	1:J:325:ILE:HG13	2.49	0.43
1:J:485:GLU:OE2	1:J:584:TYR:N	2.50	0.43
1:J:576:GLU:CG	1:J:577:ALA:N	2.44	0.43
1:J:733:PRO:C	1:J:737:PHE:CE1	2.96	0.43
1:J:757:GLN:N	1:J:776:GLU:CB	2.77	0.43
1:P:93:MET:O	1:P:713:SER:CB	2.66	0.43
1:P:163:TYR:O	1:P:166:MET:HB3	2.17	0.43
1:P:530:MET:CE	4:0:354:GLN:CB	2.95	0.43
1:P:537:GLU:OE1	4:0:350:SER:HA	2.19	0.43
1:P:725:ARG:CZ	1:P:737:PHE:CE1	3.02	0.43
1:P:733:PRO:CB	3:R:93:VAL:HG21	2.48	0.43
1:P:829:TRP:CE3	2:Q:87:LYS:NZ	2.85	0.43
3:R:69:LEU:HB3	3:R:70:PRO:HD3	2.00	0.43
4:0:47:MET:HE2	4:0:47:MET:HB2	1.79	0.43
4:0:205:GLU:O	4:0:208:ILE:HG22	2.18	0.43
4:1:47:MET:HB2	4:1:47:MET:HE2	1.79	0.43
4:3:47:MET:HB2	4:3:47:MET:HE2	1.79	0.43
4:5:171:LEU:HA	4:5:172:PRO:HD2	1.84	0.43
4:7:205:GLU:O	4:7:208:ILE:HG22	2.18	0.43
4:V:193:LEU:O	4:V:198:TYR:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:220:ALA:HB3	4:W:223:PHE:CD1	2.53	0.43
4:Z:149:THR:HA	4:Z:165:ILE:O	2.18	0.43
1:A:129:TYR:HD1	1:A:129:TYR:HA	1.65	0.43
1:A:295:MLY:CE	1:A:332:MET:CE	2.96	0.43
1:A:400:ALA:CB	1:A:606:THR:HG22	2.48	0.43
1:A:436:MLY:HE3	1:A:626:TYR:HE1	1.77	0.43
1:A:442:VAL:O	1:A:445:ILE:HB	2.19	0.43
1:A:625:THR:H	1:A:625:THR:HG22	1.48	0.43
1:A:787:ILE:HG23	1:A:791:GLN:HG3	2.00	0.43
1:D:155:ILE:HG22	1:D:156:PHE:N	2.33	0.43
1:D:226:ASN:HB2	1:D:227:PRO:CD	2.47	0.43
1:D:724:TYR:HB3	1:D:727:LEU:CD1	2.48	0.43
1:G:40:VAL:HG23	1:G:76:GLN:O	2.19	0.43
1:G:568:PRO:CG	1:G:578:HIS:H	2.30	0.43
1:G:689:GLU:HA	1:G:692:LEU:HB2	1.99	0.43
1:G:747:LEU:HD23	1:G:747:LEU:C	2.43	0.43
1:G:754:ASP:CA	1:G:776:GLU:OE2	2.59	0.43
1:J:14:ALA:N	1:J:15:PRO:CD	2.82	0.43
1:J:266:GLU:OE1	1:J:659:MLY:NZ	2.51	0.43
1:J:537:GLU:OE1	4:W:350:SER:HA	2.19	0.43
1:J:725:ARG:NE	1:J:733:PRO:CB	1.95	0.43
1:J:747:LEU:HD23	1:J:747:LEU:C	2.43	0.43
1:J:793:ARG:O	1:J:797:PHE:N	2.39	0.43
1:P:266:GLU:OE1	1:P:659:MLY:NZ	2.51	0.43
1:P:408:VAL:HG22	1:P:636:LYS:HG2	1.52	0.43
1:P:409:GLY:HA3	4:O:332:PRO:C	2.43	0.43
1:P:692:LEU:O	1:P:696:ARG:HG3	2.18	0.43
1:P:723:ARG:CG	1:P:723:ARG:NH1	2.79	0.43
3:R:101:THR:HA	3:R:137:ILE:O	2.18	0.43
4:3:223:PHE:HB3	4:3:259:GLU:OE2	2.18	0.43
4:4:47:MET:HB2	4:4:47:MET:HE2	1.79	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
4:7:149:THR:HA	4:7:165:ILE:O	2.19	0.43
4:V:149:THR:HA	4:V:165:ILE:O	2.19	0.43
4:Z:253:GLU:H	4:Z:253:GLU:CD	2.26	0.43
1:A:320:ILE:O	1:A:320:ILE:HG22	2.18	0.43
1:A:500:GLN:HB2	1:A:512:PHE:CZ	2.54	0.43
1:A:529:PRO:HB3	4:8:354:GLN:HA	2.00	0.43
1:A:568:PRO:CG	1:A:578:HIS:H	2.30	0.43
1:A:612:GLN:NE2	1:A:627:GLY:H	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:733:PRO:O	1:A:737:PHE:CE1	2.53	0.43
1:A:754:ASP:H	1:A:775:LEU:HD11	1.84	0.43
1:A:791:GLN:OE1	3:C:116:GLU:N	2.50	0.43
3:C:119:THR:O	3:C:123:VAL:HG23	2.18	0.43
1:D:144:ARG:HA	1:D:144:ARG:HD2	1.78	0.43
1:D:193:ILE:HD11	1:D:250:ILE:CD1	2.48	0.43
1:D:507:GLY:HA3	1:D:762:HIS:N	2.33	0.43
1:D:639:GLY:H	4:9:344:SER:HB3	1.83	0.43
1:D:725:ARG:HA	1:D:732:ILE:HG22	1.99	0.43
1:D:799:MET:SD	3:F:32:ASP:C	2.99	0.43
1:D:800:ARG:C	3:F:149:VAL:CG2	2.86	0.43
1:G:86:ASP:OD2	1:G:87:MLY:HH22	2.19	0.43
1:G:516:GLY:O	1:G:518:ASP:N	2.51	0.43
1:G:556:ASP:HB2	4:X:47:MET:HE2	1.05	0.43
1:G:834:LEU:CD1	2:H:51:PHE:CD1	3.02	0.43
2:H:114:LYS:CG	2:H:146:GLY:HA2	2.46	0.43
3:I:11:LYS:HE2	3:I:11:LYS:HB3	1.83	0.43
1:J:123:CYS:HB2	1:J:158:ILE:HD13	2.00	0.43
1:J:136:ASN:HA	1:J:137:PRO:HD3	1.49	0.43
1:J:224:SER:O	1:J:227:PRO:HD2	2.17	0.43
1:J:322:VAL:HA	1:J:323:PRO:HD3	1.87	0.43
1:J:584:TYR:CD1	1:J:584:TYR:C	2.96	0.43
1:J:783:LEU:HA	1:J:786:ILE:HB	1.99	0.43
1:J:829:TRP:HA	1:J:830:PRO:HD2	1.86	0.43
1:P:64:THR:CG2	1:P:65:GLU:H	2.32	0.43
1:P:246:PHE:HB3	1:P:270:LEU:HD12	2.01	0.43
1:P:322:VAL:CG1	1:P:325:ILE:HD11	2.47	0.43
4:2:47:MET:HE2	4:2:47:MET:HB2	1.79	0.43
4:4:220:ALA:HB3	4:4:223:PHE:CD1	2.53	0.43
1:A:369:MLY:HH22	1:A:369:MLY:HD3	1.79	0.43
1:A:449:LEU:HD12	1:A:449:LEU:HA	1.60	0.43
1:A:541:MET:HB3	4:8:345:ILE:HG22	2.00	0.43
1:A:541:MET:HG2	4:8:345:ILE:HG22	2.00	0.43
1:A:632:GLY:HA3	1:A:643:GLY:N	2.17	0.43
1:A:787:ILE:HG21	1:A:787:ILE:HD13	1.67	0.43
1:A:796:GLY:HA3	3:C:40:ASN:CG	2.43	0.43
3:C:50:LEU:O	3:C:53:PRO:HG2	2.18	0.43
1:D:174:SER:OG	1:D:669:PRO:HA	2.18	0.43
1:D:206:LYS:HD2	1:D:217:THR:CG2	2.17	0.43
1:D:274:ARG:HH22	1:D:282:GLU:CD	2.27	0.43
1:D:409:GLY:HA3	4:9:332:PRO:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:725:ARG:CG	1:D:733:PRO:CA	2.95	0.43
3:F:50:LEU:O	3:F:53:PRO:HG2	2.18	0.43
1:G:246:PHE:HB3	1:G:270:LEU:HD12	2.00	0.43
1:G:294:ASN:OD1	1:G:307:THR:HG21	2.19	0.43
1:G:500:GLN:HB2	1:G:512:PHE:CZ	2.54	0.43
1:G:787:ILE:HG23	1:G:791:GLN:HG3	2.00	0.43
1:G:791:GLN:NE2	3:I:116:GLU:H	2.16	0.43
2:H:113:LYS:C	2:H:147:ASN:HB2	2.43	0.43
3:I:48:LYS:HA	3:I:48:LYS:HD3	1.17	0.43
1:J:201:ALA:O	1:J:202:SER:OG	2.36	0.43
1:J:442:VAL:O	1:J:445:ILE:HB	2.19	0.43
1:J:505:MLY:HG3	1:J:762:HIS:NE2	2.31	0.43
1:J:553:MLY:HE2	4:Y:45:VAL:HB	2.01	0.43
1:J:659:MLY:HH22	1:J:659:MLY:HD2	1.42	0.43
1:J:712:PRO:HB2	1:J:713:SER:H	1.61	0.43
1:J:715:VAL:HG12	1:J:720:PHE:HB2	2.00	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CE1	3.02	0.43
1:J:829:TRP:HZ2	2:K:83:MET:HE3	1.79	0.43
1:J:839:MLY:HH11	2:K:158:THR:CG2	2.48	0.43
1:P:48:VAL:HA	1:P:104:TYR:OH	2.18	0.43
1:P:442:VAL:O	1:P:445:ILE:HB	2.19	0.43
1:P:548:THR:HG21	4:2:49:GLN:C	2.41	0.43
1:P:659:MLY:HH22	1:P:659:MLY:HD2	1.42	0.43
1:P:804:ARG:NH2	3:R:149:VAL:CA	2.81	0.43
4:0:149:THR:HA	4:0:165:ILE:O	2.19	0.43
4:0:202:THR:O	4:Y:287:ILE:HD13	2.19	0.43
4:W:193:LEU:O	4:W:198:TYR:HD2	2.01	0.43
4:X:171:LEU:HA	4:X:172:PRO:HD2	1.84	0.43
4:X:193:LEU:O	4:X:198:TYR:HD2	2.01	0.43
4:Y:149:THR:HA	4:Y:165:ILE:O	2.19	0.43
1:A:155:ILE:HG22	1:A:156:PHE:N	2.33	0.43
1:A:408:VAL:HG22	1:A:636:LYS:HG2	1.51	0.43
1:A:409:GLY:N	1:A:636:LYS:CD	2.70	0.43
1:A:578:HIS:HB3	1:A:592:ILE:CD1	2.38	0.43
1:A:747:LEU:HD23	1:A:747:LEU:C	2.43	0.43
1:A:836:PHE:CD2	2:B:161:GLU:HG2	2.53	0.43
1:D:14:ALA:N	1:D:15:PRO:CD	2.81	0.43
2:E:113:LYS:C	2:E:147:ASN:HB2	2.43	0.43
1:G:445:ILE:HG22	1:G:449:LEU:HD22	2.01	0.43
1:J:109:ARG:CD	1:J:117:THR:HB	2.49	0.43
1:J:169:ASP:O	1:J:170:ARG:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:195:TYR:CD2	1:J:199:ILE:HD13	2.54	0.43
1:J:223:ILE:C	1:J:225:ALA:N	2.76	0.43
1:J:406:VAL:O	1:J:412:ALA:HA	2.19	0.43
1:J:409:GLY:HA3	4:W:332:PRO:C	2.43	0.43
1:J:530:MET:CB	4:W:354:GLN:CB	2.95	0.43
1:J:754:ASP:C	1:J:756:THR:H	2.26	0.43
1:J:798:LEU:HD12	1:J:798:LEU:HA	1.36	0.43
2:K:144:VAL:C	2:K:153:ILE:HD11	2.42	0.43
1:P:14:ALA:N	1:P:15:PRO:CD	2.82	0.43
1:P:169:ASP:O	1:P:170:ARG:HB2	2.19	0.43
1:P:195:TYR:CD2	1:P:199:ILE:HD13	2.54	0.43
1:P:226:ASN:HB2	1:P:227:PRO:CD	2.47	0.43
1:P:408:VAL:HA	1:P:636:LYS:HG3	1.03	0.43
1:P:712:PRO:HB2	1:P:713:SER:H	1.61	0.43
1:P:732:ILE:HG21	1:P:747:LEU:CD1	0.63	0.43
4:0:220:ALA:HB3	4:0:223:PHE:CD1	2.53	0.43
4:1:149:THR:HA	4:1:165:ILE:O	2.19	0.43
4:2:220:ALA:HB3	4:2:223:PHE:CD1	2.53	0.43
4:2:287:ILE:HG13	4:4:202:THR:HG22	1.89	0.43
4:5:205:GLU:O	4:5:208:ILE:HG22	2.18	0.43
4:9:220:ALA:HB3	4:9:223:PHE:CD1	2.53	0.43
4:9:324:THR:N	4:W:245:GLY:CA	2.69	0.43
4:Y:220:ALA:HB3	4:Y:223:PHE:CD1	2.53	0.43
1:A:294:ASN:OD1	1:A:307:THR:HG21	2.19	0.43
1:A:445:ILE:HG22	1:A:449:LEU:HD22	2.01	0.43
1:A:836:PHE:CE2	2:B:160:GLY:O	2.72	0.43
1:A:836:PHE:CD1	2:B:159:HIS:HB2	2.47	0.43
1:D:195:TYR:CD2	1:D:199:ILE:HD13	2.54	0.43
1:D:210:GLN:C	1:D:211:SER:HG	2.22	0.43
1:D:442:VAL:O	1:D:445:ILE:HB	2.19	0.43
1:D:519:LEU:HD12	1:D:519:LEU:H	1.83	0.43
3:F:49:ILE:CA	3:F:52:ASN:ND2	2.53	0.43
3:F:63:ILE:CG2	3:F:64:THR:H	2.32	0.43
1:G:109:ARG:CD	1:G:117:THR:HB	2.48	0.43
1:G:151:ALA:HB1	1:G:152:PRO:HD2	2.01	0.43
1:G:195:TYR:CD2	1:G:199:ILE:HD13	2.54	0.43
1:G:206:LYS:CE	1:G:217:THR:HG23	2.30	0.43
1:G:213:LYS:HA	1:G:220:ASP:OD2	2.19	0.43
1:G:643:GLY:CA	4:V:24:ASP:OD1	2.62	0.43
1:G:795:ARG:HB3	3:I:35:ARG:NH1	2.28	0.43
3:I:63:ILE:CG2	3:I:64:THR:H	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:40:VAL:HG23	1:J:76:GLN:O	2.19	0.43
1:J:320:ILE:O	1:J:320:ILE:HG22	2.18	0.43
1:J:568:PRO:O	1:J:570:PRO:HD3	2.19	0.43
1:J:665:ARG:C	1:J:667:THR:N	2.74	0.43
1:P:294:ASN:OD1	1:P:307:THR:HG21	2.19	0.43
1:P:330:GLU:HG2	1:P:330:GLU:H	1.54	0.43
1:P:541:MET:HB3	4:0:345:ILE:HG22	2.00	0.43
1:P:754:ASP:C	1:P:756:THR:H	2.27	0.43
1:P:783:LEU:CB	1:P:786:ILE:CD1	2.95	0.43
3:R:50:LEU:O	3:R:53:PRO:HG2	2.18	0.43
4:1:203:THR:HG21	4:Z:288:ASP:CB	2.43	0.43
4:5:180:LEU:HD11	4:5:261:LEU:HD23	2.01	0.43
1:A:64:THR:CG2	1:A:65:GLU:H	2.32	0.42
1:A:195:TYR:CD2	1:A:199:ILE:HD13	2.54	0.42
1:A:246:PHE:HB3	1:A:270:LEU:HD12	2.01	0.42
1:A:493:HIS:O	1:A:496:PHE:HB3	2.18	0.42
1:A:533:PHE:HD1	1:A:533:PHE:HA	1.79	0.42
1:A:636:LYS:CB	4:8:334:GLU:OE1	2.67	0.42
1:A:642:LYS:HB3	4:8:24:ASP:HB2	1.37	0.42
1:A:725:ARG:CZ	1:A:733:PRO:CB	2.83	0.42
1:A:829:TRP:O	1:A:832:MET:N	2.50	0.42
1:A:842:LEU:N	1:A:842:LEU:CD1	2.82	0.42
1:D:169:ASP:O	1:D:170:ARG:HB2	2.19	0.42
1:D:529:PRO:HB3	4:9:354:GLN:HA	2.00	0.42
1:D:541:MET:HG2	4:9:345:ILE:HG23	2.01	0.42
1:D:655:GLU:CD	4:9:1:ASP:HB2	2.43	0.42
1:D:787:ILE:HG23	1:D:791:GLN:HG3	2.00	0.42
1:G:123:CYS:HB2	1:G:158:ILE:HD13	2.00	0.42
1:G:129:TYR:HD1	1:G:129:TYR:HA	1.65	0.42
1:G:223:ILE:C	1:G:225:ALA:N	2.76	0.42
1:G:442:VAL:O	1:G:445:ILE:HB	2.19	0.42
1:G:568:PRO:O	1:G:570:PRO:HD3	2.19	0.42
1:G:747:LEU:O	1:G:749:GLY:N	2.52	0.42
1:G:795:ARG:HB3	3:I:35:ARG:NH2	2.29	0.42
1:J:449:LEU:N	1:J:449:LEU:CD1	2.81	0.42
1:P:84:MLY:HB3	1:P:776:GLU:OE1	2.18	0.42
1:P:445:ILE:HG22	1:P:449:LEU:HD22	2.01	0.42
1:P:449:LEU:N	1:P:449:LEU:CD1	2.81	0.42
1:P:496:PHE:HB2	1:P:515:PHE:CD2	2.53	0.42
1:P:655:GLU:CD	4:0:1:ASP:HB2	2.43	0.42
3:R:62:ALA:O	3:R:63:ILE:HG13	2.14	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:119:THR:O	3:R:123:VAL:HG23	2.18	0.42
4:2:180:LEU:HD11	4:2:261:LEU:HD23	2.01	0.42
4:4:180:LEU:HD11	4:4:261:LEU:HD23	2.01	0.42
4:8:205:GLU:O	4:8:208:ILE:HG22	2.18	0.42
4:9:205:GLU:O	4:9:208:ILE:HG22	2.18	0.42
4:X:222:ASP:OD1	4:X:224:GLU:HB3	2.19	0.42
4:Y:180:LEU:HD11	4:Y:261:LEU:HD23	2.01	0.42
1:A:42:HIS:C	1:A:42:HIS:ND1	2.77	0.42
1:A:537:GLU:C	4:8:350:SER:N	2.77	0.42
1:A:551:MLY:C	4:V:47:MET:HA	2.48	0.42
1:A:733:PRO:C	1:A:737:PHE:CE1	2.96	0.42
1:D:14:ALA:HB3	1:D:15:PRO:CD	2.46	0.42
1:D:295:MLY:CE	1:D:332:MET:CE	2.97	0.42
1:D:320:ILE:O	1:D:320:ILE:HG22	2.17	0.42
1:G:541:MET:HG2	4:V:345:ILE:HG22	2.01	0.42
1:G:711:PHE:HB3	1:G:766:PHE:HB3	2.00	0.42
1:G:725:ARG:CZ	1:G:737:PHE:CE1	3.02	0.42
1:J:294:ASN:OD1	1:J:307:THR:HG21	2.19	0.42
1:J:485:GLU:HA	1:J:584:TYR:HE2	1.83	0.42
1:J:804:ARG:NH2	3:L:149:VAL:HA	2.33	0.42
3:L:52:ASN:CB	3:L:53:PRO:CD	2.92	0.42
1:P:40:VAL:HG23	1:P:76:GLN:O	2.18	0.42
1:P:93:MET:CG	1:P:715:VAL:HA	2.48	0.42
1:P:173:GLN:HG3	1:P:670:HIS:CD2	2.54	0.42
1:P:214:MET:CA	1:P:340:ILE:HD11	2.45	0.42
1:P:406:VAL:O	1:P:412:ALA:HA	2.19	0.42
1:P:533:PHE:HD1	1:P:533:PHE:HA	1.79	0.42
1:P:534:SER:CB	4:0:351:THR:HA	2.49	0.42
1:P:552:ASN:HB3	4:2:41:GLN:HE22	1.84	0.42
1:P:568:PRO:O	1:P:570:PRO:HD3	2.19	0.42
1:P:599:ASN:CG	1:P:649:VAL:CB	2.80	0.42
1:P:636:LYS:C	1:P:637:LYS:HG3	2.44	0.42
1:P:711:PHE:HB3	1:P:766:PHE:HB3	2.00	0.42
4:0:180:LEU:HD11	4:0:261:LEU:HD23	2.01	0.42
4:3:149:THR:HA	4:3:165:ILE:O	2.19	0.42
4:3:322:PRO:CA	4:5:244:ASP:HB2	2.49	0.42
4:7:180:LEU:HD11	4:7:261:LEU:HD23	2.01	0.42
4:8:180:LEU:HD11	4:8:261:LEU:HD23	2.01	0.42
1:A:62:VAL:O	1:A:69:THR:HA	2.19	0.42
1:A:136:ASN:C	1:A:138:MLY:N	2.75	0.42
1:A:330:GLU:O	1:A:333:ALA:HB3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:MLY:HE2	4:V:45:VAL:CA	2.38	0.42
1:A:689:GLU:HA	1:A:692:LEU:HB2	2.00	0.42
1:A:692:LEU:HA	1:A:692:LEU:HD23	1.85	0.42
1:A:797:PHE:CE1	3:C:146:ILE:CG2	3.01	0.42
1:D:109:ARG:CD	1:D:117:THR:HB	2.49	0.42
1:D:217:THR:HG22	1:D:218:LEU:N	2.34	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:530:MET:CE	4:9:354:GLN:HG3	2.35	0.42
1:D:725:ARG:HA	1:D:732:ILE:CG2	2.50	0.42
1:G:141:LEU:HD12	1:G:141:LEU:N	2.32	0.42
1:J:445:ILE:HG22	1:J:449:LEU:HD22	2.01	0.42
1:J:756:THR:CG2	1:J:779:ARG:HB3	2.49	0.42
1:J:792:ALA:CB	3:L:42:THR:H	2.26	0.42
1:P:62:VAL:O	1:P:69:THR:HA	2.19	0.42
1:P:201:ALA:O	1:P:202:SER:OG	2.36	0.42
1:P:223:ILE:C	1:P:225:ALA:N	2.76	0.42
1:P:464:ILE:HD13	1:P:464:ILE:HG21	1.69	0.42
1:P:485:GLU:OE2	1:P:584:TYR:N	2.50	0.42
1:P:502:GLU:C	1:P:504:MLY:N	2.77	0.42
1:P:747:LEU:O	1:P:749:GLY:N	2.52	0.42
1:P:771:LEU:C	1:P:773:GLY:N	2.75	0.42
4:0:201:VAL:HG21	4:Y:290:ARG:NH2	2.34	0.42
4:0:205:GLU:CB	4:Y:287:ILE:HD13	2.48	0.42
4:4:315:LYS:HD2	4:4:315:LYS:HA	1.92	0.42
4:8:206:ARG:O	4:8:209:VAL:HG12	2.20	0.42
4:9:149:THR:HA	4:9:165:ILE:O	2.19	0.42
4:9:180:LEU:HD11	4:9:261:LEU:HD23	2.01	0.42
4:X:180:LEU:HD11	4:X:261:LEU:HD23	2.01	0.42
4:X:325:MET:HE1	4:Z:244:ASP:OD2	2.18	0.42
1:A:38:VAL:HG13	1:A:39:PHE:N	2.35	0.42
1:A:752:ASP:OD2	1:A:782:MLY:CD	2.66	0.42
1:D:17:LEU:HA	1:D:17:LEU:HD12	1.68	0.42
1:D:584:TYR:CD1	1:D:584:TYR:C	2.96	0.42
1:D:723:ARG:CG	1:D:723:ARG:NH1	2.80	0.42
2:E:140:PHE:CD2	2:E:144:VAL:HG11	2.54	0.42
1:G:62:VAL:O	1:G:69:THR:HA	2.19	0.42
1:G:64:THR:CG2	1:G:65:GLU:H	2.32	0.42
1:G:173:GLN:HG3	1:G:670:HIS:CD2	2.55	0.42
1:G:400:ALA:CB	1:G:606:THR:HG22	2.49	0.42
1:G:406:VAL:O	1:G:412:ALA:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:506:GLU:HG2	1:G:759:ALA:HB1	2.02	0.42
1:G:529:PRO:HB3	4:V:354:GLN:HA	2.00	0.42
1:G:534:SER:CB	4:V:351:THR:HA	2.50	0.42
1:J:86:ASP:OD2	1:J:87:MLY:HH22	2.18	0.42
1:J:173:GLN:HG3	1:J:670:HIS:CD2	2.54	0.42
1:J:226:ASN:HB2	1:J:227:PRO:CD	2.47	0.42
1:J:271:GLU:OE1	1:J:274:ARG:NH1	2.53	0.42
1:J:332:MET:H	1:J:332:MET:HG2	1.52	0.42
1:J:502:GLU:C	1:J:504:MLY:N	2.77	0.42
1:J:534:SER:CB	4:W:351:THR:HA	2.49	0.42
1:J:541:MET:HG2	4:W:345:ILE:HG23	2.01	0.42
1:J:787:ILE:HG23	1:J:791:GLN:HG3	2.00	0.42
1:P:86:ASP:OD2	1:P:87:MLY:HH22	2.18	0.42
1:P:109:ARG:CD	1:P:117:THR:HB	2.49	0.42
1:P:194:GLN:HE21	1:P:194:GLN:HB3	1.43	0.42
1:P:217:THR:HG22	1:P:218:LEU:N	2.34	0.42
1:P:271:GLU:OE1	1:P:274:ARG:NH1	2.53	0.42
1:P:274:ARG:HH22	1:P:282:GLU:CD	2.27	0.42
1:P:443:ILE:HG22	1:P:444:ARG:N	2.29	0.42
1:P:730:SER:O	3:R:93:VAL:HG21	2.19	0.42
1:P:826:VAL:O	1:P:828:HIS:N	2.53	0.42
4:1:180:LEU:HD11	4:1:261:LEU:HD23	2.01	0.42
4:2:193:LEU:O	4:2:198:TYR:HD2	2.01	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
4:7:220:ALA:HB3	4:7:223:PHE:CD1	2.53	0.42
4:9:193:LEU:O	4:9:198:TYR:HD2	2.01	0.42
4:W:180:LEU:HD11	4:W:261:LEU:HD23	2.01	0.42
4:X:149:THR:HA	4:X:165:ILE:O	2.19	0.42
4:Z:180:LEU:HD11	4:Z:261:LEU:HD23	2.01	0.42
4:Z:205:GLU:O	4:Z:208:ILE:HG22	2.18	0.42
4:Z:315:LYS:HD2	4:Z:315:LYS:HA	1.92	0.42
1:D:174:SER:HA	1:D:460:GLY:O	2.19	0.42
1:D:406:VAL:O	1:D:412:ALA:HA	2.19	0.42
1:D:826:VAL:O	1:D:828:HIS:N	2.53	0.42
1:G:42:HIS:C	1:G:42:HIS:ND1	2.77	0.42
1:G:505:MLY:HE3	1:G:762:HIS:NE2	2.28	0.42
1:G:584:TYR:CD1	1:G:584:TYR:C	2.96	0.42
1:G:733:PRO:C	1:G:737:PHE:CE1	2.96	0.42
1:G:791:GLN:NE2	3:I:115:GLY:C	2.73	0.42
1:G:797:PHE:CZ	3:I:126:LEU:CD2	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:42:HIS:C	1:J:42:HIS:ND1	2.78	0.42
1:J:97:LEU:HD21	1:J:712:PRO:C	2.45	0.42
1:J:132:LEU:C	1:J:134:VAL:H	2.28	0.42
1:J:278:GLN:HE21	1:J:278:GLN:HB3	1.42	0.42
1:J:289:TYR:OH	1:J:315:VAL:O	2.27	0.42
1:J:462:LEU:HD11	1:J:464:ILE:CD1	2.50	0.42
1:J:537:GLU:C	4:W:350:SER:N	2.77	0.42
1:J:578:HIS:CD2	1:J:592:ILE:H	2.38	0.42
1:J:775:LEU:HD12	1:J:775:LEU:HA	1.71	0.42
1:P:62:VAL:HG12	1:P:63:MLY:N	2.35	0.42
1:P:63:MLY:HD3	1:P:63:MLY:HH23	1.76	0.42
1:P:322:VAL:CG1	1:P:325:ILE:HG13	2.49	0.42
1:P:449:LEU:HD12	1:P:449:LEU:HA	1.60	0.42
1:P:541:MET:HG2	4:O:345:ILE:HG23	2.01	0.42
1:P:775:LEU:HD12	1:P:775:LEU:HA	1.71	0.42
1:P:786:ILE:C	1:P:788:THR:CB	2.90	0.42
1:P:839:MLY:N	1:P:840:PRO:HD2	2.35	0.42
1:P:842:LEU:N	1:P:842:LEU:CD1	2.83	0.42
4:1:196:ARG:HH21	4:1:249:THR:HG23	1.85	0.42
4:1:205:GLU:O	4:1:208:ILE:HG22	2.18	0.42
4:8:196:ARG:HH21	4:8:249:THR:HG23	1.85	0.42
4:V:180:LEU:HD11	4:V:261:LEU:HD23	2.01	0.42
4:V:205:GLU:O	4:V:208:ILE:HG22	2.18	0.42
4:X:206:ARG:O	4:X:209:VAL:HG12	2.20	0.42
1:A:166:MET:HE1	1:A:254:PHE:CB	2.46	0.42
1:A:169:ASP:O	1:A:170:ARG:HB2	2.19	0.42
1:A:213:LYS:HA	1:A:220:ASP:OD2	2.19	0.42
1:A:817:GLN:CG	2:B:127:ARG:HB3	2.46	0.42
1:D:87:MLY:HH12	1:D:87:MLY:HD3	1.61	0.42
1:D:214:MET:C	1:D:340:ILE:HD13	2.45	0.42
1:D:534:SER:CB	4:9:351:THR:HA	2.49	0.42
1:D:643:GLY:N	4:9:24:ASP:CA	2.46	0.42
1:D:692:LEU:HD23	1:D:692:LEU:HA	1.84	0.42
1:D:727:LEU:HG	1:D:782:MLY:HE2	1.10	0.42
1:D:747:LEU:O	1:D:749:GLY:N	2.52	0.42
1:D:839:MLY:N	1:D:840:PRO:HD2	2.35	0.42
1:G:132:LEU:C	1:G:134:VAL:H	2.28	0.42
1:G:537:GLU:C	4:V:350:SER:N	2.77	0.42
1:G:839:MLY:N	1:G:840:PRO:HD2	2.35	0.42
2:H:140:PHE:CD2	2:H:144:VAL:HG11	2.55	0.42
1:J:151:ALA:HB1	1:J:152:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:174:SER:HA	1:J:460:GLY:O	2.20	0.42
1:J:214:MET:C	1:J:340:ILE:HD13	2.45	0.42
1:J:295:MLY:CE	1:J:332:MET:CE	2.97	0.42
1:J:556:ASP:HB3	4:Y:47:MET:HB2	1.00	0.42
1:J:567:LYS:HZ1	4:Y:92:ASN:HA	1.81	0.42
1:J:732:ILE:CG2	1:J:747:LEU:HD11	1.26	0.42
1:J:819:ASN:CG	2:K:92:ASP:N	2.69	0.42
2:K:140:PHE:O	2:K:141:PRO:C	2.33	0.42
3:L:63:ILE:CG2	3:L:64:THR:H	2.33	0.42
1:P:151:ALA:HB1	1:P:152:PRO:HD2	2.01	0.42
1:P:530:MET:CA	4:0:354:GLN:CD	2.86	0.42
1:P:798:LEU:CD1	3:R:126:LEU:HD11	2.48	0.42
1:P:838:ILE:CD1	2:Q:54:MET:SD	3.01	0.42
4:2:222:ASP:OD1	4:2:224:GLU:HB3	2.19	0.42
4:5:206:ARG:O	4:5:209:VAL:HG12	2.20	0.42
4:7:290:ARG:HH22	4:9:202:THR:CG2	2.17	0.42
4:V:299:MET:HE2	4:V:299:MET:HB2	1.82	0.42
4:W:222:ASP:OD1	4:W:224:GLU:HB3	2.19	0.42
4:Y:222:ASP:OD1	4:Y:224:GLU:HB3	2.19	0.42
4:Z:47:MET:HB2	4:Z:47:MET:HE2	1.79	0.42
1:A:60:VAL:O	1:A:72:VAL:N	2.51	0.42
1:A:141:LEU:HD12	1:A:141:LEU:N	2.32	0.42
1:A:214:MET:C	1:A:340:ILE:HD13	2.45	0.42
1:A:584:TYR:CD1	1:A:584:TYR:C	2.96	0.42
1:A:744:SER:O	1:A:748:LEU:HD12	2.20	0.42
1:A:839:MLY:N	1:A:840:PRO:HD2	2.35	0.42
2:B:139:ALA:O	2:B:141:PRO:CD	2.51	0.42
1:D:537:GLU:C	4:9:350:SER:N	2.77	0.42
1:D:607:VAL:C	1:D:609:GLY:N	2.77	0.42
1:D:636:LYS:CB	4:9:334:GLU:OE1	2.68	0.42
1:D:795:ARG:NH2	3:F:116:GLU:HB3	2.28	0.42
1:D:834:LEU:HD23	2:E:54:MET:HE3	1.92	0.42
2:E:137:TRP:CA	2:E:145:ALA:HB2	2.38	0.42
1:G:81:ASN:CG	1:G:96:HIS:HB2	2.45	0.42
1:G:274:ARG:HH22	1:G:282:GLU:CD	2.27	0.42
1:G:346:ASP:O	1:G:350:ALA:N	2.46	0.42
1:G:443:ILE:HG22	1:G:444:ARG:N	2.29	0.42
1:G:578:HIS:CD2	1:G:592:ILE:H	2.38	0.42
1:J:11:GLY:O	1:J:14:ALA:HB3	2.20	0.42
1:J:62:VAL:O	1:J:69:THR:HA	2.20	0.42
1:J:93:MET:CE	1:J:716:LEU:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:229:LEU:HD12	1:J:229:LEU:HA	1.75	0.42
1:J:500:GLN:HB2	1:J:512:PHE:CZ	2.54	0.42
1:J:636:LYS:C	1:J:637:LYS:HG3	2.44	0.42
1:J:791:GLN:NE2	3:L:115:GLY:C	2.78	0.42
1:P:690:LEU:O	1:P:694:GLN:HG3	2.20	0.42
1:P:692:LEU:HD23	1:P:692:LEU:HA	1.85	0.42
4:0:222:ASP:OD1	4:0:224:GLU:HB3	2.19	0.42
4:1:222:ASP:OD1	4:1:224:GLU:HB3	2.19	0.42
4:3:222:ASP:OD1	4:3:224:GLU:HB3	2.19	0.42
4:8:222:ASP:OD1	4:8:224:GLU:HB3	2.20	0.42
4:9:369:ILE:HG23	4:9:370:VAL:N	2.35	0.42
4:X:315:LYS:HD2	4:X:315:LYS:HA	1.92	0.42
1:A:214:MET:CA	1:A:340:ILE:HD11	2.46	0.42
1:A:406:VAL:O	1:A:412:ALA:HA	2.19	0.42
1:A:568:PRO:O	1:A:570:PRO:HD3	2.19	0.42
1:A:725:ARG:CZ	1:A:737:PHE:CE1	3.02	0.42
1:A:741:LYS:HG2	1:A:742:LYS:N	2.35	0.42
2:B:140:PHE:CD2	2:B:144:VAL:HG11	2.54	0.42
1:D:204:GLU:N	1:D:207:LYS:HE3	2.23	0.42
1:D:271:GLU:OE1	1:D:274:ARG:NH1	2.53	0.42
1:D:409:GLY:N	1:D:636:LYS:CD	2.71	0.42
1:D:502:GLU:C	1:D:504:MLY:N	2.77	0.42
1:D:530:MET:CE	4:9:354:GLN:CB	2.95	0.42
1:D:537:GLU:OE1	4:9:350:SER:HA	2.19	0.42
1:D:625:THR:H	1:D:625:THR:HG22	1.48	0.42
1:D:690:LEU:O	1:D:694:GLN:HG3	2.20	0.42
1:D:787:ILE:HG21	1:D:787:ILE:HD13	1.67	0.42
1:G:539:GLU:OE2	1:G:553:MLY:HD3	2.20	0.42
1:J:97:LEU:HD12	1:J:97:LEU:HA	1.67	0.42
2:K:140:PHE:CD2	2:K:144:VAL:HG11	2.54	0.42
1:P:295:MLY:CE	1:P:332:MET:CE	2.97	0.42
1:P:537:GLU:C	4:0:350:SER:N	2.77	0.42
1:P:724:TYR:HB3	1:P:727:LEU:CD1	2.49	0.42
1:P:725:ARG:HA	1:P:732:ILE:CG2	2.50	0.42
1:P:733:PRO:C	1:P:737:PHE:CE1	2.96	0.42
1:P:734:GLU:N	3:R:93:VAL:HG22	2.34	0.42
2:Q:144:VAL:HG12	2:Q:153:ILE:HD13	1.92	0.42
4:1:206:ARG:O	4:1:209:VAL:HG12	2.20	0.42
4:3:205:GLU:O	4:3:208:ILE:HG22	2.18	0.42
4:4:171:LEU:HA	4:4:172:PRO:HD2	1.84	0.42
4:4:193:LEU:HD11	4:4:250:ILE:HG13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:221:LEU:HA	4:7:312:ARG:HG2	2.02	0.42
4:7:369:ILE:HG23	4:7:370:VAL:N	2.35	0.42
4:9:222:ASP:OD1	4:9:224:GLU:HB3	2.19	0.42
4:V:222:ASP:OD1	4:V:224:GLU:HB3	2.19	0.42
4:W:221:LEU:HA	4:W:312:ARG:HG2	2.02	0.42
4:Z:206:ARG:O	4:Z:209:VAL:HG12	2.20	0.42
1:A:81:ASN:CG	1:A:96:HIS:HB2	2.45	0.42
1:A:194:GLN:HE21	1:A:194:GLN:HB3	1.43	0.42
1:A:195:TYR:CE2	1:A:199:ILE:HD13	2.55	0.42
1:A:202:SER:C	1:A:207:LYS:HE3	2.44	0.42
1:A:223:ILE:C	1:A:225:ALA:N	2.76	0.42
1:A:502:GLU:HG2	1:A:766:PHE:CD1	2.55	0.42
1:A:747:LEU:O	1:A:749:GLY:N	2.52	0.42
1:D:86:ASP:OD2	1:D:87:MLY:HH22	2.19	0.42
1:D:279:LEU:CB	1:D:280:PRO:HD2	2.49	0.42
1:D:294:ASN:OD1	1:D:307:THR:HG21	2.19	0.42
1:D:466:GLY:CA	1:D:484:ASN:HD21	2.32	0.42
1:D:530:MET:CA	4:9:354:GLN:CD	2.86	0.42
1:D:636:LYS:C	1:D:637:LYS:HG3	2.44	0.42
1:D:659:MLY:HH22	1:D:659:MLY:HD2	1.42	0.42
1:D:741:LYS:HG2	1:D:742:LYS:N	2.35	0.42
1:D:831:TRP:CE3	2:E:34:ILE:CD1	3.00	0.42
3:F:62:ALA:O	3:F:63:ILE:HG13	2.14	0.42
1:G:530:MET:CE	4:V:354:GLN:HG3	2.34	0.42
1:G:633:GLY:HA2	4:V:25:ASP:HA	1.26	0.42
1:G:836:PHE:CE2	2:H:160:GLY:N	2.76	0.42
2:H:144:VAL:HG12	2:H:153:ILE:HD11	1.75	0.42
1:J:87:MLY:HD3	1:J:87:MLY:HH12	1.61	0.42
1:J:510:TRP:CZ2	1:J:772:LEU:HD11	2.55	0.42
1:J:768:MLY:HB2	1:J:773:GLY:HA3	1.24	0.42
1:P:11:GLY:O	1:P:14:ALA:HB3	2.20	0.42
1:P:214:MET:C	1:P:340:ILE:HD13	2.45	0.42
1:P:797:PHE:HZ	3:R:126:LEU:HD22	1.74	0.42
4:0:221:LEU:HA	4:0:312:ARG:HG2	2.02	0.42
4:0:369:ILE:HG23	4:0:370:VAL:N	2.35	0.42
4:2:171:LEU:HA	4:2:172:PRO:HD2	1.84	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
4:9:221:LEU:HA	4:9:312:ARG:HG2	2.02	0.42
4:W:206:ARG:O	4:W:209:VAL:HG12	2.20	0.42
4:X:369:ILE:HG23	4:X:370:VAL:N	2.35	0.42

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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	0.42
1:A:11:GLY:O	1:A:14:ALA:HB3	2.20	0.42
1:A:110:TYR:O	1:A:113:TRP:N	2.42	0.42
1:A:173:GLN:HG3	1:A:670:HIS:CD2	2.55	0.42
1:A:221:GLN:HG2	1:A:221:GLN:H	1.47	0.42
1:A:322:VAL:HA	1:A:323:PRO:HD3	1.87	0.42
1:A:462:LEU:HD11	1:A:464:ILE:CD1	2.50	0.42
1:A:541:MET:HG2	4:8:345:ILE:HG23	2.01	0.42
1:A:800:ARG:C	3:C:149:VAL:HG22	2.40	0.42
1:D:151:ALA:HB1	1:D:152:PRO:HD2	2.01	0.42
1:D:215:GLN:H	1:D:340:ILE:CD1	2.21	0.42
1:D:471:ASP:CB	1:D:573:GLY:O	2.68	0.42
1:D:744:SER:O	1:D:748:LEU:HD12	2.20	0.42
2:E:113:LYS:O	2:E:147:ASN:HB2	2.20	0.42
1:G:60:VAL:O	1:G:72:VAL:N	2.51	0.42
1:G:202:SER:C	1:G:207:LYS:HE3	2.44	0.42
1:G:462:LEU:HD11	1:G:464:ILE:CD1	2.50	0.42
1:G:757:GLN:HG3	1:G:776:GLU:CB	2.26	0.42
1:J:195:TYR:CE2	1:J:199:ILE:HD13	2.55	0.42
1:J:418:THR:CG2	1:J:419:VAL:N	2.79	0.42
1:J:533:PHE:HD1	1:J:533:PHE:HA	1.79	0.42
1:J:655:GLU:CD	4:W:1:ASP:HB2	2.43	0.42
1:P:14:ALA:HB3	1:P:15:PRO:CD	2.46	0.42
1:P:132:LEU:C	1:P:134:VAL:H	2.28	0.42
1:P:320:ILE:O	1:P:320:ILE:HG22	2.17	0.42
1:P:335:ASP:O	1:P:338:ILE:HB	2.20	0.42
1:P:636:LYS:CB	4:0:334:GLU:OE1	2.68	0.42
1:P:642:LYS:HE2	4:0:344:SER:HA	1.57	0.42
1:P:817:GLN:HE21	2:Q:127:ARG:HB2	1.83	0.42
2:Q:113:LYS:O	2:Q:147:ASN:HB2	2.20	0.42
2:Q:140:PHE:CD2	2:Q:144:VAL:HG11	2.54	0.42
4:0:204:ALA:HB1	4:Y:288:ASP:CB	2.48	0.42
4:0:288:ASP:HB3	4:2:63:GLY:N	2.25	0.42
4:1:193:LEU:HD11	4:1:250:ILE:HG13	2.02	0.42
4:2:193:LEU:HD11	4:2:250:ILE:HG13	2.02	0.42
4:2:196:ARG:HH21	4:2:249:THR:HG23	1.85	0.42
4:5:193:LEU:HD11	4:5:250:ILE:HG13	2.02	0.42
4:7:222:ASP:OD1	4:7:224:GLU:HB3	2.19	0.42
4:8:322:PRO:CB	4:V:244:ASP:CG	2.71	0.42
4:V:196:ARG:HH21	4:V:249:THR:HG23	1.85	0.42
4:W:47:MET:HE2	4:W:47:MET:HB2	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:205:GLU:O	4:X:208:ILE:HG22	2.18	0.42
4:Y:369:ILE:HG23	4:Y:370:VAL:N	2.35	0.42
1:A:149:GLN:CB	1:A:719:ASP:CG	2.88	0.41
1:A:578:HIS:CD2	1:A:592:ILE:H	2.38	0.41
1:A:813:ILE:CD1	2:B:128:PHE:CE1	2.95	0.41
1:A:837:MLY:HH22	2:H:21:GLU:N	2.23	0.41
1:D:408:VAL:HG22	1:D:636:LYS:HG2	1.51	0.41
1:D:578:HIS:CD2	1:D:592:ILE:H	2.38	0.41
1:D:754:ASP:C	1:D:756:THR:H	2.27	0.41
1:G:62:VAL:HG12	1:G:63:MLY:N	2.34	0.41
1:G:169:ASP:O	1:G:170:ARG:HB2	2.19	0.41
1:G:369:MLY:HH22	1:G:369:MLY:HD3	1.79	0.41
1:G:553:MLY:CB	4:X:46:GLY:HA3	2.49	0.41
1:G:568:PRO:CG	1:G:578:HIS:N	2.83	0.41
1:G:741:LYS:HG2	1:G:742:LYS:N	2.35	0.41
1:G:797:PHE:CE1	3:I:146:ILE:HA	2.51	0.41
1:G:797:PHE:CD2	1:G:798:LEU:HD12	2.55	0.41
1:J:214:MET:CA	1:J:340:ILE:HD11	2.45	0.41
1:J:747:LEU:O	1:J:749:GLY:N	2.52	0.41
1:J:829:TRP:O	1:J:832:MET:N	2.50	0.41
1:P:296:MLY:HH11	1:P:348:MLY:CH2	2.48	0.41
1:P:500:GLN:HB2	1:P:512:PHE:CZ	2.54	0.41
1:P:578:HIS:CD2	1:P:592:ILE:H	2.38	0.41
1:P:661:MET:HE3	1:P:661:MET:HB3	1.74	0.41
1:P:732:ILE:HG23	1:P:747:LEU:HD12	0.95	0.41
1:P:792:ALA:H	3:R:42:THR:HG21	1.81	0.41
4:2:369:ILE:HG23	4:2:370:VAL:N	2.35	0.41
4:3:193:LEU:HD11	4:3:250:ILE:HG13	2.02	0.41
4:4:196:ARG:HH21	4:4:249:THR:HG23	1.85	0.41
4:5:369:ILE:HG23	4:5:370:VAL:N	2.35	0.41
4:7:193:LEU:HD11	4:7:250:ILE:HG13	2.02	0.41
4:8:193:LEU:HD11	4:8:250:ILE:HG13	2.02	0.41
4:V:206:ARG:O	4:V:209:VAL:HG12	2.20	0.41
4:V:369:ILE:HG23	4:V:370:VAL:N	2.35	0.41
4:W:193:LEU:HD11	4:W:250:ILE:HG13	2.02	0.41
4:W:369:ILE:HG23	4:W:370:VAL:N	2.35	0.41
4:X:291:LYS:CE	4:Z:243:PRO:HB3	2.09	0.41
4:Y:193:LEU:HD11	4:Y:250:ILE:HG13	2.02	0.41
4:Z:369:ILE:HG23	4:Z:370:VAL:N	2.35	0.41
1:A:25:ILE:HG23	1:A:29:ASN:HD22	1.85	0.41
1:A:330:GLU:OE1	1:A:330:GLU:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:ASN:HA	4:8:334:GLU:HB3	1.29	0.41
1:A:568:PRO:CG	1:A:578:HIS:N	2.84	0.41
2:B:113:LYS:O	2:B:147:ASN:HB2	2.20	0.41
1:D:462:LEU:HD11	1:D:464:ILE:CD1	2.50	0.41
1:D:500:GLN:HB2	1:D:512:PHE:CZ	2.54	0.41
1:G:11:GLY:O	1:G:14:ALA:HB3	2.20	0.41
1:G:38:VAL:HG13	1:G:39:PHE:N	2.35	0.41
1:G:110:TYR:C	1:G:112:ALA:N	2.78	0.41
1:G:135:TYR:HD2	1:G:191:ARG:CG	2.32	0.41
1:G:330:GLU:OE1	1:G:330:GLU:HA	2.20	0.41
1:G:642:LYS:HE2	4:V:344:SER:HA	1.56	0.41
1:G:744:SER:O	1:G:748:LEU:HD12	2.20	0.41
1:J:14:ALA:HB3	1:J:15:PRO:CD	2.46	0.41
1:J:612:GLN:NE2	1:J:627:GLY:H	2.14	0.41
1:J:690:LEU:O	1:J:694:GLN:HG3	2.20	0.41
1:J:725:ARG:HA	1:J:732:ILE:CG2	2.50	0.41
1:J:804:ARG:NH2	3:L:149:VAL:HG23	2.35	0.41
1:J:826:VAL:O	1:J:828:HIS:N	2.53	0.41
1:P:60:VAL:O	1:P:72:VAL:N	2.51	0.41
1:P:110:TYR:C	1:P:112:ALA:N	2.79	0.41
1:P:135:TYR:HD2	1:P:191:ARG:CG	2.33	0.41
1:P:717:TYR:OH	1:P:760:PHE:HB3	2.21	0.41
1:P:734:GLU:CG	3:R:93:VAL:HG23	2.39	0.41
1:P:793:ARG:CD	3:R:87:PHE:CE1	3.03	0.41
1:P:795:ARG:HG2	3:R:116:GLU:OE2	2.19	0.41
1:P:836:PHE:CZ	2:Q:159:HIS:CA	2.94	0.41
4:0:193:LEU:HD11	4:0:250:ILE:HG13	2.02	0.41
4:3:221:LEU:HA	4:3:312:ARG:HG2	2.02	0.41
4:3:287:ILE:CG2	4:5:204:ALA:N	2.67	0.41
4:4:226:GLU:HG3	4:4:255:PHE:CE2	2.55	0.41
4:5:221:LEU:HA	4:5:312:ARG:HG2	2.02	0.41
4:7:287:ILE:N	4:9:202:THR:CG2	2.77	0.41
4:8:315:LYS:HD2	4:8:315:LYS:HA	1.92	0.41
4:8:369:ILE:HG23	4:8:370:VAL:N	2.35	0.41
4:9:196:ARG:HH21	4:9:249:THR:HG23	1.85	0.41
4:V:193:LEU:HD11	4:V:250:ILE:HG13	2.02	0.41
1:A:135:TYR:HD2	1:A:191:ARG:CG	2.33	0.41
1:A:274:ARG:HH22	1:A:282:GLU:CD	2.27	0.41
1:A:505:MLY:HB2	1:A:761:GLY:C	2.45	0.41
1:A:530:MET:CE	4:8:354:GLN:HG3	2.35	0.41
1:A:690:LEU:O	1:A:694:GLN:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:129:TYR:HD1	1:D:129:TYR:HA	1.65	0.41
1:D:132:LEU:C	1:D:134:VAL:H	2.28	0.41
1:D:356:GLY:HA2	1:D:359:MET:HG3	2.02	0.41
1:D:568:PRO:CG	1:D:578:HIS:N	2.83	0.41
1:D:732:ILE:HG21	1:D:747:LEU:CD1	0.64	0.41
1:D:795:ARG:NE	3:F:116:GLU:HB3	2.31	0.41
1:D:797:PHE:CD2	1:D:798:LEU:HD12	2.55	0.41
1:D:823:PHE:CD1	2:E:160:GLY:HA2	2.46	0.41
1:D:830:PRO:HB2	2:E:51:PHE:CE1	2.54	0.41
1:G:538:GLU:OE1	4:V:355:MET:HE1	2.18	0.41
1:G:541:MET:HG2	4:V:345:ILE:HG23	2.01	0.41
1:G:783:LEU:C	1:G:787:ILE:HB	2.43	0.41
1:J:136:ASN:O	1:J:138:MLY:N	2.54	0.41
1:J:530:MET:CE	4:W:354:GLN:CB	2.95	0.41
1:J:568:PRO:CG	1:J:578:HIS:N	2.83	0.41
1:J:636:LYS:CB	4:W:334:GLU:OE1	2.68	0.41
1:J:701:LEU:HD12	1:J:701:LEU:HA	1.55	0.41
1:J:741:LYS:HG2	1:J:742:LYS:N	2.35	0.41
1:J:744:SER:O	1:J:748:LEU:HD12	2.20	0.41
1:J:804:ARG:NH1	3:L:149:VAL:HB	2.35	0.41
1:P:136:ASN:O	1:P:138:MLY:N	2.54	0.41
1:P:176:LEU:N	1:P:176:LEU:CD1	2.74	0.41
1:P:332:MET:H	1:P:332:MET:HG2	1.52	0.41
1:P:471:ASP:CB	1:P:573:GLY:O	2.68	0.41
1:P:568:PRO:CG	1:P:578:HIS:N	2.83	0.41
1:P:635:GLY:C	4:O:341:ILE:HG21	2.45	0.41
1:P:840:PRO:C	1:P:842:LEU:N	2.79	0.41
4:O:206:ARG:O	4:O:209:VAL:HG12	2.20	0.41
4:3:148:THR:HG21	4:5:45:VAL:CG2	2.50	0.41
4:4:206:ARG:O	4:4:209:VAL:HG12	2.20	0.41
4:8:227:MET:O	4:8:230:ALA:HB3	2.21	0.41
4:9:226:GLU:HG3	4:9:255:PHE:CE2	2.55	0.41
4:V:286:ASP:HA	4:X:202:THR:HG22	1.63	0.41
4:X:291:LYS:HG3	4:Z:244:ASP:HA	1.20	0.41
4:Z:193:LEU:HD11	4:Z:250:ILE:HG13	2.02	0.41
4:Z:222:ASP:OD1	4:Z:224:GLU:HB3	2.19	0.41
4:Z:226:GLU:HG3	4:Z:255:PHE:CE2	2.55	0.41
1:A:97:LEU:HD23	1:A:712:PRO:CA	2.50	0.41
1:A:797:PHE:CD2	1:A:798:LEU:HD12	2.55	0.41
1:A:812:SER:O	1:A:816:ILE:HG13	2.21	0.41
1:A:836:PHE:CE1	2:B:159:HIS:C	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:11:GLY:O	1:D:14:ALA:HB3	2.20	0.41
1:D:135:TYR:CD2	1:D:191:ARG:HD3	2.55	0.41
1:D:568:PRO:O	1:D:570:PRO:HD3	2.19	0.41
1:G:136:ASN:O	1:G:138:MLY:N	2.54	0.41
1:G:148:ARG:HE	1:G:764:MLY:CH2	2.30	0.41
1:G:195:TYR:CE2	1:G:199:ILE:HD13	2.55	0.41
1:G:449:LEU:N	1:G:449:LEU:CD1	2.82	0.41
1:G:471:ASP:CB	1:G:573:GLY:O	2.68	0.41
1:G:725:ARG:HA	1:G:732:ILE:CG2	2.50	0.41
1:G:826:VAL:O	1:G:828:HIS:N	2.53	0.41
2:H:140:PHE:HA	2:H:141:PRO:HD2	1.57	0.41
3:I:56:GLU:OE1	3:I:59:ASN:ND2	2.54	0.41
1:J:335:ASP:O	1:J:338:ILE:HB	2.20	0.41
1:J:641:LYS:CE	1:J:647:GLN:CB	2.75	0.41
1:J:756:THR:HG22	1:J:776:GLU:HA	1.70	0.41
1:P:322:VAL:HB	1:P:325:ILE:HD12	2.02	0.41
1:P:541:MET:HG2	4:0:345:ILE:HG22	2.00	0.41
1:P:741:LYS:HG2	1:P:742:LYS:N	2.35	0.41
1:P:795:ARG:NE	3:R:42:THR:CB	2.83	0.41
4:0:243:PRO:CB	4:Y:291:LYS:CE	2.91	0.41
4:2:221:LEU:HA	4:2:312:ARG:HG2	2.02	0.41
4:3:288:ASP:CA	4:5:203:THR:CG2	2.99	0.41
4:3:324:THR:CG2	4:5:244:ASP:O	2.68	0.41
4:3:369:ILE:HG23	4:3:370:VAL:N	2.35	0.41
4:5:222:ASP:OD1	4:5:224:GLU:HB3	2.19	0.41
4:9:193:LEU:HD11	4:9:250:ILE:HG13	2.02	0.41
4:9:287:ILE:HA	4:W:202:THR:HG21	1.59	0.41
4:9:287:ILE:CB	4:W:204:ALA:H	2.13	0.41
4:W:226:GLU:HG3	4:W:255:PHE:CE2	2.55	0.41
4:Y:206:ARG:O	4:Y:209:VAL:HG12	2.20	0.41
1:A:110:TYR:C	1:A:112:ALA:N	2.78	0.41
1:A:530:MET:HE3	4:8:354:GLN:HG2	1.90	0.41
1:A:636:LYS:C	1:A:637:LYS:HG3	2.44	0.41
1:A:711:PHE:O	1:A:714:ARG:NH2	2.54	0.41
1:A:723:ARG:CG	1:A:723:ARG:NH1	2.79	0.41
1:A:831:TRP:HZ2	2:B:47:LEU:HA	1.83	0.41
2:B:150:TYR:HB3	2:B:151:LYS:HG3	2.03	0.41
1:D:25:ILE:HG23	1:D:29:ASN:HD22	1.85	0.41
1:D:62:VAL:O	1:D:69:THR:HA	2.19	0.41
1:D:81:ASN:CG	1:D:96:HIS:HB2	2.45	0.41
1:D:166:MET:HE1	1:D:254:PHE:CB	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:173:GLN:HG3	1:D:670:HIS:CD2	2.55	0.41
1:G:84:MLY:HH23	1:G:719:ASP:O	2.14	0.41
1:G:97:LEU:HD12	1:G:97:LEU:HA	1.67	0.41
1:G:217:THR:CA	1:G:221:GLN:HE21	2.33	0.41
1:G:553:MLY:C	4:X:46:GLY:HA3	2.50	0.41
1:G:636:LYS:C	1:G:637:LYS:HG3	2.45	0.41
1:G:717:TYR:OH	1:G:760:PHE:HB3	2.21	0.41
1:G:840:PRO:C	1:G:842:LEU:N	2.79	0.41
1:J:25:ILE:HG23	1:J:29:ASN:HD22	1.85	0.41
1:J:296:MLY:HH11	1:J:348:MLY:CH2	2.48	0.41
1:J:330:GLU:HG2	1:J:330:GLU:H	1.54	0.41
1:J:471:ASP:CB	1:J:573:GLY:O	2.68	0.41
1:J:839:MLY:N	1:J:840:PRO:HD2	2.34	0.41
3:L:25:ILE:O	3:L:63:ILE:CB	2.66	0.41
1:P:42:HIS:ND1	1:P:42:HIS:C	2.77	0.41
1:P:174:SER:HA	1:P:460:GLY:O	2.20	0.41
1:P:193:ILE:HD11	1:P:250:ILE:HD12	2.03	0.41
1:P:195:TYR:CE2	1:P:199:ILE:HD13	2.55	0.41
1:P:204:GLU:N	1:P:207:LYS:HE3	2.23	0.41
1:P:356:GLY:HA2	1:P:359:MET:HG3	2.02	0.41
1:P:462:LEU:HD11	1:P:464:ILE:CD1	2.50	0.41
1:P:549:SER:HA	4:2:49:GLN:CG	2.48	0.41
1:P:786:ILE:HG22	1:P:787:ILE:CG2	2.50	0.41
1:P:831:TRP:CH2	2:Q:34:ILE:HG21	2.55	0.41
3:R:63:ILE:CG2	3:R:64:THR:H	2.32	0.41
4:0:226:GLU:HG3	4:0:255:PHE:CE2	2.55	0.41
4:1:148:THR:OG1	4:3:45:VAL:HG23	2.21	0.41
4:4:222:ASP:OD1	4:4:224:GLU:HB3	2.19	0.41
4:7:206:ARG:O	4:7:209:VAL:HG12	2.20	0.41
4:7:226:GLU:HG3	4:7:255:PHE:CE2	2.55	0.41
4:7:287:ILE:HA	4:9:202:THR:HG21	1.59	0.41
4:8:226:GLU:HG3	4:8:255:PHE:CE2	2.55	0.41
4:9:206:ARG:O	4:9:209:VAL:HG12	2.20	0.41
4:X:227:MET:O	4:X:230:ALA:HB3	2.21	0.41
4:Y:226:GLU:HG3	4:Y:255:PHE:CE2	2.55	0.41
1:A:62:VAL:HG12	1:A:63:MLY:N	2.35	0.41
1:A:132:LEU:C	1:A:134:VAL:H	2.28	0.41
1:A:174:SER:HA	1:A:460:GLY:O	2.20	0.41
1:A:193:ILE:HD11	1:A:250:ILE:HD12	2.03	0.41
1:A:398:LEU:HA	1:A:398:LEU:HD12	1.84	0.41
3:C:63:ILE:CG2	3:C:64:THR:H	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:96:LYS:H	3:C:96:LYS:HG3	1.67	0.41
1:D:38:VAL:HG13	1:D:39:PHE:N	2.35	0.41
1:D:42:HIS:ND1	1:D:42:HIS:C	2.77	0.41
1:D:136:ASN:O	1:D:138:MLY:N	2.54	0.41
1:D:335:ASP:O	1:D:338:ILE:HB	2.20	0.41
1:D:831:TRP:CH2	2:E:47:LEU:CA	2.65	0.41
1:D:834:LEU:CD2	2:E:54:MET:CE	2.76	0.41
1:G:174:SER:HA	1:G:460:GLY:O	2.20	0.41
1:G:485:GLU:OE2	1:G:584:TYR:N	2.50	0.41
1:G:541:MET:HB3	4:V:345:ILE:HG22	2.01	0.41
1:G:673:ARG:HD2	1:G:673:ARG:HA	1.79	0.41
1:G:690:LEU:O	1:G:694:GLN:HG3	2.20	0.41
1:G:772:LEU:HA	1:G:772:LEU:HD12	1.82	0.41
1:J:204:GLU:N	1:J:207:LYS:HE3	2.23	0.41
1:J:635:GLY:C	4:W:341:ILE:HG21	2.45	0.41
1:J:797:PHE:CD2	1:J:798:LEU:HD12	2.55	0.41
1:P:718:ALA:C	1:P:720:PHE:N	2.79	0.41
1:P:744:SER:O	1:P:748:LEU:HD12	2.20	0.41
1:P:812:SER:O	1:P:816:ILE:HG13	2.21	0.41
3:R:56:GLU:OE1	3:R:59:ASN:ND2	2.54	0.41
4:O:196:ARG:HH21	4:O:249:THR:HG23	1.85	0.41
4:2:144:ALA:HB2	4:2:342:GLY:CA	2.51	0.41
4:3:196:ARG:HH21	4:3:249:THR:HG23	1.85	0.41
4:4:32:PRO:HB2	4:4:34:ILE:CD1	2.51	0.41
4:5:32:PRO:HB2	4:5:34:ILE:CD1	2.51	0.41
4:7:32:PRO:HB2	4:7:34:ILE:CD1	2.51	0.41
4:8:288:ASP:OD1	4:V:204:ALA:HA	2.20	0.41
4:V:226:GLU:HG3	4:V:255:PHE:CE2	2.55	0.41
4:V:315:LYS:HD2	4:V:315:LYS:HA	1.92	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:144:ALA:HB2	4:Z:342:GLY:CA	2.51	0.41
4:Z:196:ARG:HH21	4:Z:249:THR:HG23	1.85	0.41
1:A:826:VAL:O	1:A:828:HIS:N	2.53	0.41
3:C:56:GLU:OE1	3:C:59:ASN:ND2	2.54	0.41
1:D:110:TYR:C	1:D:112:ALA:N	2.79	0.41
1:D:508:ILE:HD13	1:D:508:ILE:HG21	1.88	0.41
3:F:95:ASP:OD1	3:F:139:TYR:HE1	2.03	0.41
1:G:14:ALA:HB3	1:G:15:PRO:CD	2.46	0.41
1:G:636:LYS:CB	4:V:334:GLU:OE1	2.68	0.41
1:G:661:MET:HB3	1:G:661:MET:HE3	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:842:LEU:N	1:G:842:LEU:CD1	2.82	0.41
1:J:464:ILE:HD13	1:J:464:ILE:HG21	1.69	0.41
1:J:796:GLY:N	3:L:35:ARG:NH1	2.68	0.41
3:L:95:ASP:OD1	3:L:139:TYR:HE1	2.04	0.41
1:P:149:GLN:HE21	1:P:149:GLN:HB2	1.71	0.41
1:P:240:ASN:OD1	1:P:241:ASP:N	2.52	0.41
1:P:320:ILE:O	1:P:320:ILE:CG2	2.68	0.41
1:P:330:GLU:HA	1:P:330:GLU:OE1	2.20	0.41
1:P:797:PHE:CD2	1:P:798:LEU:HD12	2.55	0.41
4:1:144:ALA:HB2	4:1:342:GLY:CA	2.51	0.41
4:2:227:MET:O	4:2:230:ALA:HB3	2.21	0.41
4:4:369:ILE:HG23	4:4:370:VAL:N	2.35	0.41
4:5:226:GLU:HG3	4:5:255:PHE:CE2	2.55	0.41
4:W:227:MET:O	4:W:230:ALA:HB3	2.21	0.41
4:X:32:PRO:HB2	4:X:34:ILE:CD1	2.51	0.41
1:A:226:ASN:HB2	1:A:227:PRO:CD	2.47	0.41
1:A:505:MLY:CG	1:A:741:LYS:NZ	2.70	0.41
1:A:724:TYR:HB3	1:A:727:LEU:CD1	2.48	0.41
1:A:818:TYR:HB3	2:B:90:GLY:H	1.82	0.41
1:D:62:VAL:HG12	1:D:63:MLY:N	2.35	0.41
1:D:330:GLU:HA	1:D:330:GLU:OE1	2.21	0.41
1:D:407:GLY:HA2	1:D:411:GLU:O	2.21	0.41
1:D:718:ALA:C	1:D:720:PHE:N	2.78	0.41
1:D:813:ILE:HG22	2:E:127:ARG:HD2	2.02	0.41
2:E:150:TYR:HB3	2:E:151:LYS:HG3	2.03	0.41
1:G:384:ASP:HA	1:G:394:SER:OG	2.21	0.41
1:G:537:GLU:OE1	4:V:350:SER:HA	2.20	0.41
1:G:554:LEU:HD12	1:G:554:LEU:HA	1.76	0.41
1:G:771:LEU:C	1:G:773:GLY:N	2.75	0.41
3:I:25:ILE:O	3:I:63:ILE:CB	2.66	0.41
3:I:95:ASP:OD1	3:I:139:TYR:HE1	2.03	0.41
1:J:62:VAL:HG12	1:J:63:MLY:N	2.34	0.41
1:J:193:ILE:HD11	1:J:250:ILE:HD12	2.03	0.41
1:J:193:ILE:CD1	1:J:250:ILE:HD13	2.51	0.41
1:J:356:GLY:HA2	1:J:359:MET:HG3	2.02	0.41
1:J:519:LEU:HD12	1:J:519:LEU:H	1.83	0.41
1:J:610:LEU:N	1:J:610:LEU:CD1	2.84	0.41
1:J:717:TYR:OH	1:J:760:PHE:HB3	2.21	0.41
1:J:842:LEU:N	1:J:842:LEU:CD1	2.83	0.41
3:L:11:LYS:HB3	3:L:11:LYS:HE2	1.83	0.41
1:P:135:TYR:CD2	1:P:191:ARG:HD3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:193:ILE:CD1	1:P:250:ILE:HD13	2.51	0.41
1:P:539:GLU:OE2	1:P:553:MLY:HD3	2.20	0.41
1:P:657:LEU:HD12	1:P:657:LEU:O	2.21	0.41
4:1:227:MET:O	4:1:230:ALA:HB3	2.21	0.41
4:1:324:THR:H	4:3:244:ASP:HA	1.86	0.41
4:1:369:ILE:HG23	4:1:370:VAL:N	2.35	0.41
4:2:32:PRO:HB2	4:2:34:ILE:CD1	2.51	0.41
4:2:226:GLU:HG3	4:2:255:PHE:CE2	2.55	0.41
4:3:226:GLU:HG3	4:3:255:PHE:CE2	2.56	0.41
4:3:287:ILE:CB	4:5:203:THR:HG22	2.44	0.41
4:4:227:MET:O	4:4:230:ALA:HB3	2.21	0.41
4:7:196:ARG:HH21	4:7:249:THR:HG23	1.85	0.41
4:8:324:THR:HG23	4:V:245:GLY:HA2	1.09	0.41
4:9:32:PRO:HB2	4:9:34:ILE:CD1	2.51	0.41
4:W:144:ALA:HB2	4:W:342:GLY:CA	2.51	0.41
4:X:144:ALA:HB2	4:X:342:GLY:CA	2.51	0.41
1:A:63:MLY:HH23	1:A:63:MLY:HD3	1.76	0.41
1:A:136:ASN:O	1:A:138:MLY:N	2.54	0.41
1:A:303:LEU:O	1:A:304:LEU:HB2	2.21	0.41
1:A:356:GLY:HA2	1:A:359:MET:HG3	2.02	0.41
1:A:471:ASP:CB	1:A:573:GLY:O	2.68	0.41
1:A:498:LEU:CD2	1:A:764:MLY:CH2	2.72	0.41
1:A:797:PHE:CE1	3:C:149:VAL:CG1	3.04	0.41
1:A:813:ILE:HG23	2:B:128:PHE:CE1	2.56	0.41
3:C:48:LYS:HD3	3:C:48:LYS:HA	1.17	0.41
3:C:95:ASP:OD1	3:C:139:TYR:HE1	2.04	0.41
1:D:48:VAL:CG2	1:D:49:MLY:N	2.84	0.41
1:D:195:TYR:CE2	1:D:199:ILE:HD13	2.55	0.41
1:D:296:MLY:HH11	1:D:348:MLY:CH2	2.48	0.41
1:D:322:VAL:HB	1:D:325:ILE:HD12	2.03	0.41
1:D:322:VAL:HG12	1:D:325:ILE:HG13	2.03	0.41
1:D:493:HIS:O	1:D:496:PHE:N	2.54	0.41
1:G:172:ASN:OD1	1:G:457:TYR:HA	2.21	0.41
1:G:185:LYS:H	1:G:185:LYS:HG3	1.62	0.41
1:G:193:ILE:CD1	1:G:250:ILE:HD13	2.51	0.41
1:G:335:ASP:O	1:G:338:ILE:HB	2.20	0.41
1:G:356:GLY:HA2	1:G:359:MET:HG3	2.02	0.41
1:G:555:TYR:C	1:G:557:GLU:N	2.77	0.41
1:G:718:ALA:C	1:G:720:PHE:N	2.79	0.41
1:J:38:VAL:HG13	1:J:39:PHE:N	2.35	0.41
1:J:84:MLY:HH21	1:J:720:PHE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:135:TYR:CD2	1:J:191:ARG:HD3	2.55	0.41
1:J:144:ARG:HH11	1:J:160:ASP:CG	2.28	0.41
1:J:309:PRO:C	1:J:311:ASP:N	2.79	0.41
1:J:322:VAL:HG12	1:J:325:ILE:HG13	2.03	0.41
1:J:384:ASP:HA	1:J:394:SER:OG	2.21	0.41
1:J:642:LYS:HE2	4:W:344:SER:HA	1.56	0.41
1:J:657:LEU:HD12	1:J:657:LEU:O	2.21	0.41
1:J:718:ALA:C	1:J:720:PHE:N	2.79	0.41
1:J:732:ILE:HG21	1:J:747:LEU:CD1	0.63	0.41
3:L:56:GLU:OE1	3:L:59:ASN:ND2	2.54	0.41
1:P:38:VAL:HG13	1:P:39:PHE:N	2.35	0.41
1:P:48:VAL:CG2	1:P:49:MLY:N	2.84	0.41
1:P:106:LEU:HD12	1:P:106:LEU:HA	1.79	0.41
1:P:202:SER:HB2	1:P:207:LYS:HZ1	1.85	0.41
1:P:322:VAL:HG12	1:P:325:ILE:HG13	2.03	0.41
1:P:361:TYR:C	1:P:363:ASN:N	2.78	0.41
1:P:506:GLU:HG3	1:P:760:PHE:H	1.85	0.41
1:P:536:LEU:HA	1:P:536:LEU:HD12	1.69	0.41
1:P:643:GLY:CA	4:0:24:ASP:OD1	2.61	0.41
1:P:733:PRO:CB	1:P:737:PHE:CE1	3.03	0.41
1:P:795:ARG:CD	3:R:116:GLU:OE2	2.66	0.41
1:P:829:TRP:HA	1:P:830:PRO:HD2	1.86	0.41
1:P:829:TRP:HZ2	2:Q:83:MET:HE3	1.81	0.41
2:Q:140:PHE:HB3	2:Q:144:VAL:HG11	2.03	0.41
4:0:110:LEU:HB3	4:1:195:GLU:HG3	2.03	0.41
4:0:144:ALA:HB2	4:0:342:GLY:CA	2.51	0.41
4:4:144:ALA:HB2	4:4:342:GLY:CA	2.51	0.41
4:7:227:MET:O	4:7:230:ALA:HB3	2.21	0.41
4:8:144:ALA:HB2	4:8:342:GLY:CA	2.51	0.41
4:8:287:ILE:N	4:V:202:THR:CG2	2.77	0.41
4:9:227:MET:O	4:9:230:ALA:HB3	2.21	0.41
4:V:32:PRO:HB2	4:V:34:ILE:CD1	2.51	0.41
4:V:144:ALA:HB2	4:V:342:GLY:CA	2.51	0.41
4:W:32:PRO:HB2	4:W:34:ILE:CD1	2.51	0.41
4:X:219:VAL:HG22	4:X:258:PRO:CB	2.51	0.41
4:X:221:LEU:HA	4:X:312:ARG:HG2	2.02	0.41
4:X:226:GLU:HG3	4:X:255:PHE:CE2	2.55	0.41
4:Y:144:ALA:HB2	4:Y:342:GLY:CA	2.51	0.41
1:A:72:VAL:O	1:A:73:LYS:O	2.39	0.41
1:A:172:ASN:OD1	1:A:457:TYR:HA	2.21	0.41
1:A:335:ASP:O	1:A:338:ILE:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:ASP:HA	1:A:394:SER:OG	2.21	0.41
1:A:502:GLU:C	1:A:504:MLY:N	2.77	0.41
1:A:717:TYR:OH	1:A:760:PHE:HB3	2.21	0.41
2:B:63:GLU:O	2:B:67:MET:HG3	2.21	0.41
3:C:62:ALA:O	3:C:63:ILE:HG13	2.13	0.41
1:D:193:ILE:HD11	1:D:250:ILE:HD12	2.03	0.41
1:D:193:ILE:CD1	1:D:250:ILE:HD13	2.51	0.41
1:D:348:MLY:HH12	1:D:348:MLY:HD2	1.82	0.41
1:D:361:TYR:C	1:D:363:ASN:N	2.79	0.41
1:D:554:LEU:HA	1:D:554:LEU:HD12	1.77	0.41
1:G:25:ILE:HG23	1:G:29:ASN:HD22	1.85	0.41
1:G:193:ILE:HD11	1:G:250:ILE:HD12	2.03	0.41
1:G:214:MET:C	1:G:340:ILE:HD13	2.45	0.41
1:G:553:MLY:HA	4:X:45:VAL:O	2.21	0.41
1:G:762:HIS:CD2	1:G:762:HIS:N	2.78	0.41
1:G:829:TRP:HZ3	2:H:84:PHE:CD1	2.33	0.41
1:J:330:GLU:OE1	1:J:330:GLU:HA	2.20	0.41
1:J:539:GLU:OE2	1:J:553:MLY:HD3	2.20	0.41
1:J:791:GLN:HB3	3:L:116:GLU:OE2	2.21	0.41
2:K:113:LYS:O	2:K:147:ASN:HB2	2.20	0.41
2:K:149:ASP:OD2	2:K:150:TYR:CA	2.64	0.41
1:P:218:LEU:HD22	1:P:222:ILE:HG13	1.95	0.41
1:P:229:LEU:HA	1:P:229:LEU:HD12	1.75	0.41
1:P:493:HIS:O	1:P:496:PHE:N	2.54	0.41
1:P:641:LYS:C	4:O:22:ALA:O	2.60	0.41
3:R:95:ASP:OD1	3:R:139:TYR:HE1	2.03	0.41
4:O:32:PRO:HB2	4:O:34:ILE:CD1	2.51	0.41
4:O:227:MET:O	4:O:230:ALA:HB3	2.21	0.41
4:1:226:GLU:HG3	4:1:255:PHE:CE2	2.55	0.41
4:3:32:PRO:HB2	4:3:34:ILE:CD1	2.51	0.41
4:3:144:ALA:HB2	4:3:342:GLY:CA	2.51	0.41
4:3:219:VAL:HG22	4:3:258:PRO:CB	2.51	0.41
4:5:227:MET:O	4:5:230:ALA:HB3	2.21	0.41
4:8:32:PRO:HB2	4:8:34:ILE:CD1	2.51	0.41
4:V:221:LEU:HA	4:V:312:ARG:HG2	2.02	0.41
4:V:227:MET:O	4:V:230:ALA:HB3	2.21	0.41
4:X:196:ARG:HH21	4:X:249:THR:HG23	1.85	0.41
1:A:806:MET:SD	3:C:17:PHE:HE2	2.44	0.40
1:D:47:PHE:HE1	1:D:78:PHE:CE1	2.40	0.40
1:D:176:LEU:N	1:D:176:LEU:CD1	2.75	0.40
1:D:213:LYS:HA	1:D:220:ASP:OD2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:840:PRO:C	1:D:842:LEU:H	2.29	0.40
2:E:140:PHE:HB3	2:E:144:VAL:HG11	2.03	0.40
3:F:56:GLU:OE1	3:F:59:ASN:ND2	2.54	0.40
1:G:56:GLU:HB2	1:G:59:MLY:CB	2.30	0.40
1:G:194:GLN:HE21	1:G:194:GLN:HB3	1.43	0.40
1:G:322:VAL:HA	1:G:323:PRO:HD3	1.87	0.40
1:G:657:LEU:HD12	1:G:657:LEU:O	2.21	0.40
2:H:141:PRO:CB	2:H:142:PRO:HD3	2.48	0.40
1:J:81:ASN:CG	1:J:96:HIS:HB2	2.45	0.40
1:J:172:ASN:OD1	1:J:457:TYR:HA	2.21	0.40
1:J:493:HIS:O	1:J:496:PHE:N	2.54	0.40
1:J:668:HIS:CD2	1:J:668:HIS:C	2.99	0.40
1:J:797:PHE:HE2	3:L:126:LEU:CD2	2.27	0.40
1:P:237:THR:CG2	1:P:238:VAL:N	2.84	0.40
1:P:544:LYS:N	4:O:146:GLY:O	2.55	0.40
1:P:772:LEU:HA	1:P:772:LEU:HD12	1.83	0.40
4:1:219:VAL:HG22	4:1:258:PRO:CB	2.51	0.40
4:1:299:MET:HE2	4:1:299:MET:HB2	1.82	0.40
4:1:315:LYS:HD2	4:1:315:LYS:HA	1.92	0.40
4:4:219:VAL:HG22	4:4:258:PRO:CB	2.51	0.40
4:8:219:VAL:HG22	4:8:258:PRO:CB	2.52	0.40
4:9:144:ALA:HB2	4:9:342:GLY:CA	2.51	0.40
4:9:288:ASP:OD1	4:W:204:ALA:HA	2.21	0.40
4:V:219:VAL:HG22	4:V:258:PRO:CB	2.52	0.40
4:Y:32:PRO:HB2	4:Y:34:ILE:CD1	2.51	0.40
4:Y:227:MET:O	4:Y:230:ALA:HB3	2.21	0.40
1:A:14:ALA:HB3	1:A:15:PRO:CD	2.46	0.40
1:A:193:ILE:CD1	1:A:250:ILE:HD13	2.51	0.40
1:A:464:ILE:HG22	1:A:465:ALA:H	1.87	0.40
1:A:493:HIS:O	1:A:496:PHE:N	2.54	0.40
1:A:797:PHE:CD1	3:C:149:VAL:HG12	2.56	0.40
1:D:94:MET:HE1	1:D:101:ALA:CB	2.50	0.40
1:D:201:ALA:O	1:D:202:SER:OG	2.36	0.40
1:D:528:MLY:HB2	1:D:529:PRO:HD2	2.03	0.40
1:D:556:ASP:OD1	4:W:50:LYS:CG	2.69	0.40
1:D:635:GLY:C	4:9:341:ILE:HG21	2.46	0.40
1:D:641:LYS:CE	1:D:647:GLN:CB	2.75	0.40
1:D:776:GLU:O	1:D:780:ASP:N	2.45	0.40
1:G:28:GLN:CB	1:G:723:ARG:NH1	2.33	0.40
1:G:166:MET:CE	1:G:254:PHE:HB2	2.46	0.40
1:G:224:SER:C	1:G:227:PRO:HD2	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:279:LEU:CB	1:G:280:PRO:HD2	2.49	0.40
1:G:641:LYS:CE	1:G:647:GLN:CB	2.74	0.40
1:G:648:THR:CG2	1:G:651:ALA:CB	2.92	0.40
1:G:817:GLN:NE2	2:H:128:PHE:CD1	2.76	0.40
1:G:819:ASN:ND2	2:H:91:ALA:C	2.76	0.40
1:J:322:VAL:HB	1:J:325:ILE:HD12	2.03	0.40
1:J:536:LEU:HA	1:J:536:LEU:HD12	1.69	0.40
1:J:544:LYS:N	4:W:146:GLY:O	2.55	0.40
1:J:553:MLY:HH12	4:Y:45:VAL:HG11	2.00	0.40
1:J:735:GLY:HA3	1:J:743:ALA:HA	2.01	0.40
1:P:185:LYS:H	1:P:185:LYS:HG3	1.63	0.40
1:P:544:LYS:HE2	4:2:45:VAL:HG22	2.03	0.40
1:P:580:SER:O	1:P:581:LEU:HD12	2.22	0.40
1:P:799:MET:SD	3:R:35:ARG:HD2	2.61	0.40
4:7:144:ALA:HB2	4:7:342:GLY:CA	2.51	0.40
4:8:221:LEU:HA	4:8:312:ARG:HG2	2.02	0.40
4:9:120:THR:HG21	4:9:370:VAL:CG1	2.52	0.40
4:Z:227:MET:O	4:Z:230:ALA:HB3	2.21	0.40
1:A:149:GLN:CB	1:A:718:ALA:CA	2.99	0.40
3:C:11:LYS:HE2	3:C:11:LYS:HB3	1.83	0.40
1:D:135:TYR:HD2	1:D:191:ARG:CG	2.33	0.40
1:D:172:ASN:OD1	1:D:457:TYR:HA	2.21	0.40
1:D:309:PRO:C	1:D:311:ASP:N	2.79	0.40
1:D:536:LEU:HA	1:D:536:LEU:HD12	1.69	0.40
1:D:733:PRO:CB	1:D:737:PHE:CE1	3.02	0.40
1:D:797:PHE:CD1	3:F:146:ILE:O	2.74	0.40
1:D:813:ILE:CG1	2:E:128:PHE:CE1	3.05	0.40
1:G:144:ARG:HH11	1:G:160:ASP:CG	2.28	0.40
1:G:221:GLN:HG2	1:G:221:GLN:H	1.47	0.40
1:G:464:ILE:HG22	1:G:465:ALA:H	1.87	0.40
1:G:493:HIS:O	1:G:496:PHE:N	2.54	0.40
1:G:528:MLY:HB2	1:G:529:PRO:HD2	2.03	0.40
1:G:812:SER:O	1:G:816:ILE:HG13	2.21	0.40
1:G:817:GLN:CD	2:H:128:PHE:CE1	3.00	0.40
1:J:47:PHE:HE1	1:J:78:PHE:CE1	2.40	0.40
1:J:60:VAL:O	1:J:72:VAL:N	2.51	0.40
1:J:797:PHE:CE1	3:L:146:ILE:CG1	3.04	0.40
1:P:25:ILE:HG23	1:P:29:ASN:HD22	1.85	0.40
1:P:303:LEU:O	1:P:304:LEU:HB2	2.21	0.40
4:2:237:GLU:HA	4:2:251:GLY:CA	2.43	0.40
4:3:227:MET:O	4:3:230:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:287:ILE:N	4:W:202:THR:CG2	2.77	0.40
1:A:555:TYR:C	1:A:557:GLU:N	2.77	0.40
1:A:725:ARG:HA	1:A:732:ILE:CG2	2.50	0.40
1:A:823:PHE:CD1	2:B:160:GLY:HA3	2.55	0.40
2:B:112:ILE:O	2:B:148:VAL:N	2.50	0.40
1:D:60:VAL:O	1:D:72:VAL:N	2.51	0.40
1:D:64:THR:OG1	1:D:68:GLU:HB3	2.22	0.40
1:D:242:ASN:OD1	1:D:286:HIS:NE2	2.49	0.40
1:D:303:LEU:O	1:D:304:LEU:HB2	2.21	0.40
1:D:308:ASN:HA	1:D:309:PRO:HD2	1.88	0.40
1:D:398:LEU:HA	1:D:398:LEU:HD12	1.83	0.40
1:D:668:HIS:CD2	1:D:668:HIS:C	2.99	0.40
2:E:149:ASP:O	2:E:150:TYR:CD1	2.75	0.40
1:G:110:TYR:O	1:G:113:TRP:N	2.42	0.40
1:G:305:ILE:HG22	1:G:312:TYR:OH	2.22	0.40
1:G:407:GLY:HA2	1:G:411:GLU:O	2.21	0.40
1:G:408:VAL:HA	1:G:636:LYS:HG2	1.14	0.40
1:G:642:LYS:HB2	4:V:24:ASP:O	1.89	0.40
1:G:668:HIS:CD2	1:G:668:HIS:C	2.99	0.40
2:H:113:LYS:O	2:H:147:ASN:HB2	2.20	0.40
1:J:224:SER:C	1:J:227:PRO:HD2	2.47	0.40
1:J:303:LEU:O	1:J:304:LEU:HB2	2.21	0.40
1:J:795:ARG:NE	3:L:43:ASN:H	2.17	0.40
1:P:81:ASN:CG	1:P:96:HIS:HB2	2.45	0.40
1:P:435:GLU:O	1:P:438:PHE:N	2.55	0.40
1:P:508:ILE:HD13	1:P:508:ILE:HG21	1.88	0.40
2:Q:111:SER:OG	2:Q:148:VAL:CA	2.69	0.40
4:W:196:ARG:HH21	4:W:249:THR:HG23	1.85	0.40
4:X:120:THR:HG21	4:X:370:VAL:CG1	2.52	0.40
1:A:237:THR:CG2	1:A:238:VAL:N	2.84	0.40
1:A:718:ALA:C	1:A:720:PHE:N	2.79	0.40
1:A:840:PRO:C	1:A:842:LEU:N	2.79	0.40
1:D:89:GLU:HB3	1:D:153:PRO:HG3	2.03	0.40
1:D:237:THR:CG2	1:D:238:VAL:N	2.85	0.40
1:D:320:ILE:O	1:D:320:ILE:CG2	2.68	0.40
1:D:400:ALA:CB	1:D:606:THR:CG2	3.00	0.40
1:D:657:LEU:O	1:D:657:LEU:HD12	2.21	0.40
1:D:724:TYR:HA	1:D:782:MLY:CE	2.51	0.40
1:G:792:ALA:CB	3:I:42:THR:CB	2.47	0.40
2:H:111:SER:OG	2:H:148:VAL:CA	2.69	0.40
1:J:528:MLY:HB2	1:J:529:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:568:PRO:HG3	1:J:578:HIS:N	2.36	0.40
1:J:812:SER:O	1:J:816:ILE:HG13	2.21	0.40
1:P:84:MLY:CE	1:P:723:ARG:CD	2.98	0.40
1:P:144:ARG:HH11	1:P:160:ASP:CG	2.28	0.40
1:P:401:LEU:HD12	1:P:401:LEU:HA	1.98	0.40
1:P:407:GLY:HA2	1:P:411:GLU:O	2.21	0.40
1:P:485:GLU:OE1	1:P:583:HIS:HB3	2.21	0.40
2:Q:117:LEU:HD23	2:Q:117:LEU:HA	1.94	0.40
2:Q:150:TYR:HB3	2:Q:151:LYS:HG3	2.03	0.40
4:0:205:GLU:HG2	4:Y:287:ILE:CD1	2.47	0.40
4:0:315:LYS:HD2	4:0:315:LYS:HA	1.92	0.40
4:1:120:THR:HG21	4:1:370:VAL:CG1	2.52	0.40
4:3:120:THR:HG21	4:3:370:VAL:CG1	2.52	0.40
4:3:250:ILE:HG22	4:3:254:ARG:HB2	2.04	0.40
4:4:250:ILE:HG22	4:4:254:ARG:HB2	2.04	0.40
4:4:287:ILE:H	4:4:287:ILE:CD1	2.31	0.40
4:5:120:THR:HG21	4:5:370:VAL:CG1	2.52	0.40
4:9:250:ILE:HG22	4:9:254:ARG:HB2	2.04	0.40
4:9:287:ILE:HD11	4:W:202:THR:HA	1.66	0.40
4:V:120:THR:HG21	4:V:370:VAL:CG1	2.52	0.40
4:Y:315:LYS:HD2	4:Y:315:LYS:HA	1.92	0.40
4:Z:88:HIS:HA	4:Z:92:ASN:OD1	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	789/840 (94%)	650 (82%)	113 (14%)	26 (3%)	3	21
1	D	789/840 (94%)	651 (82%)	112 (14%)	26 (3%)	3	21
1	G	791/840 (94%)	651 (82%)	113 (14%)	27 (3%)	3	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	J	791/840 (94%)	651 (82%)	113 (14%)	27 (3%)	3	21
1	P	791/840 (94%)	650 (82%)	112 (14%)	29 (4%)	2	20
2	B	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	E	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	H	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	K	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	Q	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
3	C	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	F	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	I	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	L	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	R	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
4	0	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	1	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	2	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	3	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	4	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	5	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	7	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	8	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	9	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	V	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	W	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	X	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	Y	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	Z	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
All	All	10561/10910 (97%)	9231 (87%)	1071 (10%)	259 (2%)	6	26

All (259) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	73	LYS
1	A	202	SER

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

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Mol	Chain	Res	Type
1	P	770	GLY
1	P	806	MET
2	Q	131	GLU
2	Q	141	PRO
4	0	246	GLN
4	1	246	GLN
4	2	246	GLN
4	3	246	GLN
4	4	246	GLN
4	5	246	GLN
4	7	246	GLN
4	8	246	GLN
4	9	246	GLN
4	V	246	GLN
4	W	246	GLN
4	X	246	GLN
4	Y	246	GLN
4	Z	246	GLN
1	A	11	GLY
1	A	21	GLU
1	A	219	GLU
1	A	517	MET
1	A	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

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Mol	Chain	Res	Type
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	P	11	GLY
1	P	21	GLU
1	P	219	GLU
1	P	517	MET
1	P	637	LYS
1	P	807	VAL
2	Q	130	PRO
2	Q	147	ASN
2	Q	151	LYS
2	Q	161	GLU
4	0	274	ILE
4	1	274	ILE
4	2	274	ILE
4	3	274	ILE
4	4	274	ILE
4	5	274	ILE
4	7	274	ILE
4	8	274	ILE
4	9	274	ILE
4	V	274	ILE
4	W	274	ILE
4	X	274	ILE
4	Y	274	ILE
4	Z	274	ILE
1	A	58	GLY
1	A	294	ASN
1	A	532	ILE
1	A	644	SER
1	D	58	GLY
1	D	294	ASN

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Mol	Chain	Res	Type
1	D	532	ILE
1	D	644	SER
1	G	58	GLY
1	G	294	ASN
1	G	644	SER
2	H	161	GLU
1	J	58	GLY
1	J	294	ASN
1	J	532	ILE
1	J	644	SER
2	K	161	GLU
1	P	58	GLY
1	P	294	ASN
1	P	532	ILE
1	P	644	SER
4	0	233	SER
4	1	233	SER
4	2	233	SER
4	3	233	SER
4	4	233	SER
4	5	233	SER
4	7	233	SER
4	8	233	SER
4	9	233	SER
4	V	233	SER
4	W	233	SER
4	X	233	SER
4	Y	233	SER
4	Z	233	SER
1	A	435	GLU
1	A	817	GLN
1	D	269	LEU
1	D	435	GLU
1	D	817	GLN
1	G	269	LEU
1	G	435	GLU
1	G	817	GLN
1	J	269	LEU
1	J	435	GLU
1	J	817	GLN
1	P	435	GLU
1	P	817	GLN

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Mol	Chain	Res	Type
4	0	2	GLU
4	0	253	GLU
4	1	2	GLU
4	1	253	GLU
4	2	2	GLU
4	3	2	GLU
4	3	253	GLU
4	4	2	GLU
4	5	2	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	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	556	ASP
1	D	578	HIS
2	E	140	PHE
1	G	8	ALA
1	G	79	SER
1	G	578	HIS
2	H	140	PHE
1	J	8	ALA
1	J	578	HIS
1	P	8	ALA
1	P	269	LEU
1	P	578	HIS
2	Q	140	PHE
4	2	253	GLU
4	4	253	GLU
4	5	253	GLU
4	7	253	GLU

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Mol	Chain	Res	Type
4	V	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
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	P	79	SER
1	P	199	ILE
1	P	556	ASP
2	Q	142	PRO
1	A	840	PRO
1	D	287	ILE
1	D	840	PRO
1	G	287	ILE
1	G	840	PRO
1	J	287	ILE
1	J	840	PRO
1	P	287	ILE
1	P	840	PRO
4	0	242	LEU
4	1	242	LEU
4	2	242	LEU
4	3	242	LEU
4	4	242	LEU
4	5	242	LEU
4	7	242	LEU
4	8	242	LEU
4	9	242	LEU
4	V	242	LEU

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Mol	Chain	Res	Type
4	W	242	LEU
4	X	242	LEU
4	Y	242	LEU
4	Z	242	LEU
1	A	287	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	672/672 (100%)	491 (73%)	181 (27%)	0	3
1	D	672/672 (100%)	490 (73%)	182 (27%)	0	3
1	G	672/672 (100%)	492 (73%)	180 (27%)	0	3
1	J	672/672 (100%)	491 (73%)	181 (27%)	0	3
1	P	672/672 (100%)	490 (73%)	182 (27%)	0	3
2	B	120/120 (100%)	119 (99%)	1 (1%)	73	80
2	E	120/120 (100%)	119 (99%)	1 (1%)	73	80
2	H	120/120 (100%)	119 (99%)	1 (1%)	73	80
2	K	120/120 (100%)	119 (99%)	1 (1%)	73	80
2	Q	120/120 (100%)	120 (100%)	0	100	100
3	C	117/117 (100%)	113 (97%)	4 (3%)	32	54
3	F	117/117 (100%)	113 (97%)	4 (3%)	32	54
3	I	117/117 (100%)	113 (97%)	4 (3%)	32	54
3	L	117/117 (100%)	113 (97%)	4 (3%)	32	54
3	R	117/117 (100%)	113 (97%)	4 (3%)	32	54
4	0	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	1	315/318 (99%)	265 (84%)	50 (16%)	2	11
4	2	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	3	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	4	315/318 (99%)	264 (84%)	51 (16%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	5	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	7	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	8	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	9	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	V	315/318 (99%)	265 (84%)	50 (16%)	2	11
4	W	315/318 (99%)	265 (84%)	50 (16%)	2	11
4	X	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	Y	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	Z	315/318 (99%)	264 (84%)	51 (16%)	2	11
All	All	8955/8997 (100%)	7314 (82%)	1641 (18%)	3	8

All (1641) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	MET
1	A	12	GLU
1	A	17	LEU
1	A	20	SER
1	A	22	LYS
1	A	23	GLU
1	A	25	ILE
1	A	36	SER
1	A	37	SER
1	A	38	VAL
1	A	40	VAL
1	A	41	VAL
1	A	46	SER
1	A	52	ILE
1	A	61	THR
1	A	65	GLU
1	A	69	THR
1	A	70	LEU
1	A	72	VAL
1	A	73	LYS
1	A	75	ASP
1	A	76	GLN
1	A	88	ILE
1	A	97	LEU
1	A	106	LEU

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Mol	Chain	Res	Type
1	A	109	ARG
1	A	114	MET
1	A	117	THR
1	A	121	LEU
1	A	125	THR
1	A	126	VAL
1	A	127	ASN
1	A	136	ASN
1	A	146	LYS
1	A	149	GLN
1	A	155	ILE
1	A	157	SER
1	A	158	ILE
1	A	159	SER
1	A	166	MET
1	A	167	LEU
1	A	169	ASP
1	A	170	ARG
1	A	173	GLN
1	A	175	ILE
1	A	178	THR
1	A	180	GLU
1	A	185	LYS
1	A	186	THR
1	A	187	VAL
1	A	189	THR
1	A	191	ARG
1	A	193	ILE
1	A	194	GLN
1	A	198	THR
1	A	199	ILE
1	A	218	LEU
1	A	219	GLU
1	A	221	GLN
1	A	223	ILE
1	A	229	LEU
1	A	244	SER
1	A	245	ARG
1	A	251	ARG
1	A	273	SER
1	A	274	ARG
1	A	278	GLN

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Mol	Chain	Res	Type
1	A	282	GLU
1	A	287	ILE
1	A	290	GLN
1	A	291	ILE
1	A	294	ASN
1	A	298	GLU
1	A	300	ILE
1	A	302	MET
1	A	303	LEU
1	A	305	ILE
1	A	315	VAL
1	A	325	ILE
1	A	331	LEU
1	A	332	MET
1	A	336	SER
1	A	351	ILE
1	A	354	LEU
1	A	359	MET
1	A	364	LEU
1	A	365	LYS
1	A	372	GLU
1	A	376	GLU
1	A	381	GLU
1	A	389	LEU
1	A	392	LEU
1	A	394	SER
1	A	399	LYS
1	A	401	LEU
1	A	405	ARG
1	A	410	ASN
1	A	411	GLU
1	A	439	LEU
1	A	448	GLN
1	A	449	LEU
1	A	452	LYS
1	A	453	GLN
1	A	455	ARG
1	A	456	GLN
1	A	457	TYR
1	A	462	LEU
1	A	471	ASP
1	A	480	ILE

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Mol	Chain	Res	Type
1	A	487	LEU
1	A	495	MET
1	A	498	LEU
1	A	506	GLU
1	A	513	ILE
1	A	524	GLU
1	A	530	MET
1	A	532	ILE
1	A	534	SER
1	A	537	GLU
1	A	549	SER
1	A	561	LYS
1	A	562	SER
1	A	569	LYS
1	A	580	SER
1	A	593	SER
1	A	596	LEU
1	A	597	GLU
1	A	604	ASN
1	A	608	ILE
1	A	610	LEU
1	A	615	SER
1	A	621	LEU
1	A	625	THR
1	A	664	LEU
1	A	666	SER
1	A	673	ARG
1	A	675	ILE
1	A	676	ILE
1	A	686	MET
1	A	689	GLU
1	A	690	LEU
1	A	693	HIS
1	A	698	ASN
1	A	700	VAL
1	A	701	LEU
1	A	702	GLU
1	A	704	ILE
1	A	705	ARG
1	A	707	CYS
1	A	708	ARG
1	A	713	SER

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Mol	Chain	Res	Type
1	A	714	ARG
1	A	716	LEU
1	A	722	GLN
1	A	723	ARG
1	A	727	LEU
1	A	728	ASN
1	A	744	SER
1	A	745	GLU
1	A	748	LEU
1	A	752	ASP
1	A	753	VAL
1	A	754	ASP
1	A	762	HIS
1	A	772	LEU
1	A	774	LEU
1	A	785	GLU
1	A	787	ILE
1	A	793	ARG
1	A	798	LEU
1	A	799	MET
1	A	802	GLU
1	A	810	ARG
1	A	816	ILE
1	A	819	ASN
1	A	822	SER
1	A	832	MET
1	A	834	LEU
1	A	838	ILE
1	A	842	LEU
1	A	843	LYS
2	B	129	THR
3	C	48	LYS
3	C	83	THR
3	C	85	GLU
3	C	96	LYS
1	D	7	MET
1	D	12	GLU
1	D	17	LEU
1	D	20	SER
1	D	22	LYS
1	D	23	GLU
1	D	25	ILE

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Mol	Chain	Res	Type
1	D	36	SER
1	D	37	SER
1	D	38	VAL
1	D	40	VAL
1	D	41	VAL
1	D	46	SER
1	D	52	ILE
1	D	61	THR
1	D	65	GLU
1	D	69	THR
1	D	70	LEU
1	D	72	VAL
1	D	73	LYS
1	D	75	ASP
1	D	76	GLN
1	D	88	ILE
1	D	97	LEU
1	D	106	LEU
1	D	109	ARG
1	D	114	MET
1	D	117	THR
1	D	121	LEU
1	D	125	THR
1	D	126	VAL
1	D	127	ASN
1	D	136	ASN
1	D	146	LYS
1	D	149	GLN
1	D	155	ILE
1	D	157	SER
1	D	158	ILE
1	D	159	SER
1	D	166	MET
1	D	167	LEU
1	D	169	ASP
1	D	170	ARG
1	D	173	GLN
1	D	175	ILE
1	D	178	THR
1	D	180	GLU
1	D	185	LYS
1	D	186	THR

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Mol	Chain	Res	Type
1	D	187	VAL
1	D	189	THR
1	D	191	ARG
1	D	193	ILE
1	D	194	GLN
1	D	198	THR
1	D	199	ILE
1	D	218	LEU
1	D	219	GLU
1	D	221	GLN
1	D	223	ILE
1	D	229	LEU
1	D	244	SER
1	D	245	ARG
1	D	251	ARG
1	D	273	SER
1	D	274	ARG
1	D	278	GLN
1	D	282	GLU
1	D	287	ILE
1	D	290	GLN
1	D	291	ILE
1	D	294	ASN
1	D	298	GLU
1	D	300	ILE
1	D	302	MET
1	D	303	LEU
1	D	305	ILE
1	D	315	VAL
1	D	325	ILE
1	D	331	LEU
1	D	332	MET
1	D	336	SER
1	D	351	ILE
1	D	354	LEU
1	D	359	MET
1	D	364	LEU
1	D	365	LYS
1	D	372	GLU
1	D	376	GLU
1	D	381	GLU
1	D	389	LEU

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Mol	Chain	Res	Type
1	D	392	LEU
1	D	394	SER
1	D	399	LYS
1	D	401	LEU
1	D	405	ARG
1	D	410	ASN
1	D	411	GLU
1	D	439	LEU
1	D	448	GLN
1	D	449	LEU
1	D	452	LYS
1	D	453	GLN
1	D	455	ARG
1	D	456	GLN
1	D	457	TYR
1	D	462	LEU
1	D	471	ASP
1	D	480	ILE
1	D	487	LEU
1	D	495	MET
1	D	498	LEU
1	D	499	GLU
1	D	506	GLU
1	D	513	ILE
1	D	524	GLU
1	D	530	MET
1	D	532	ILE
1	D	534	SER
1	D	537	GLU
1	D	549	SER
1	D	561	LYS
1	D	562	SER
1	D	569	LYS
1	D	580	SER
1	D	593	SER
1	D	596	LEU
1	D	597	GLU
1	D	604	ASN
1	D	608	ILE
1	D	610	LEU
1	D	615	SER
1	D	621	LEU

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Mol	Chain	Res	Type
1	D	625	THR
1	D	664	LEU
1	D	666	SER
1	D	673	ARG
1	D	675	ILE
1	D	676	ILE
1	D	686	MET
1	D	689	GLU
1	D	690	LEU
1	D	693	HIS
1	D	698	ASN
1	D	700	VAL
1	D	701	LEU
1	D	702	GLU
1	D	704	ILE
1	D	705	ARG
1	D	707	CYS
1	D	708	ARG
1	D	713	SER
1	D	714	ARG
1	D	716	LEU
1	D	722	GLN
1	D	723	ARG
1	D	727	LEU
1	D	728	ASN
1	D	744	SER
1	D	745	GLU
1	D	748	LEU
1	D	752	ASP
1	D	753	VAL
1	D	754	ASP
1	D	762	HIS
1	D	772	LEU
1	D	774	LEU
1	D	785	GLU
1	D	787	ILE
1	D	793	ARG
1	D	798	LEU
1	D	799	MET
1	D	802	GLU
1	D	810	ARG
1	D	816	ILE

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Mol	Chain	Res	Type
1	D	819	ASN
1	D	822	SER
1	D	832	MET
1	D	834	LEU
1	D	838	ILE
1	D	842	LEU
1	D	843	LYS
2	E	129	THR
3	F	48	LYS
3	F	83	THR
3	F	85	GLU
3	F	96	LYS
1	G	7	MET
1	G	12	GLU
1	G	17	LEU
1	G	20	SER
1	G	22	LYS
1	G	23	GLU
1	G	25	ILE
1	G	36	SER
1	G	37	SER
1	G	38	VAL
1	G	40	VAL
1	G	41	VAL
1	G	46	SER
1	G	52	ILE
1	G	61	THR
1	G	65	GLU
1	G	69	THR
1	G	70	LEU
1	G	72	VAL
1	G	73	LYS
1	G	75	ASP
1	G	76	GLN
1	G	88	ILE
1	G	97	LEU
1	G	106	LEU
1	G	109	ARG
1	G	114	MET
1	G	117	THR
1	G	121	LEU
1	G	125	THR

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

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

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Mol	Chain	Res	Type
1	G	524	GLU
1	G	530	MET
1	G	532	ILE
1	G	534	SER
1	G	537	GLU
1	G	549	SER
1	G	561	LYS
1	G	562	SER
1	G	569	LYS
1	G	580	SER
1	G	596	LEU
1	G	597	GLU
1	G	604	ASN
1	G	608	ILE
1	G	610	LEU
1	G	615	SER
1	G	621	LEU
1	G	625	THR
1	G	664	LEU
1	G	666	SER
1	G	673	ARG
1	G	675	ILE
1	G	676	ILE
1	G	686	MET
1	G	689	GLU
1	G	690	LEU
1	G	693	HIS
1	G	698	ASN
1	G	700	VAL
1	G	701	LEU
1	G	702	GLU
1	G	704	ILE
1	G	705	ARG
1	G	707	CYS
1	G	708	ARG
1	G	713	SER
1	G	714	ARG
1	G	716	LEU
1	G	722	GLN
1	G	723	ARG
1	G	727	LEU
1	G	728	ASN

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Mol	Chain	Res	Type
1	G	744	SER
1	G	745	GLU
1	G	748	LEU
1	G	752	ASP
1	G	753	VAL
1	G	754	ASP
1	G	762	HIS
1	G	772	LEU
1	G	774	LEU
1	G	785	GLU
1	G	787	ILE
1	G	793	ARG
1	G	798	LEU
1	G	799	MET
1	G	802	GLU
1	G	810	ARG
1	G	816	ILE
1	G	819	ASN
1	G	822	SER
1	G	832	MET
1	G	834	LEU
1	G	838	ILE
1	G	842	LEU
1	G	843	LYS
2	H	129	THR
3	I	48	LYS
3	I	83	THR
3	I	85	GLU
3	I	96	LYS
1	J	7	MET
1	J	12	GLU
1	J	17	LEU
1	J	20	SER
1	J	22	LYS
1	J	23	GLU
1	J	25	ILE
1	J	36	SER
1	J	37	SER
1	J	38	VAL
1	J	40	VAL
1	J	41	VAL
1	J	46	SER

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Mol	Chain	Res	Type
1	J	52	ILE
1	J	61	THR
1	J	65	GLU
1	J	69	THR
1	J	70	LEU
1	J	72	VAL
1	J	73	LYS
1	J	75	ASP
1	J	76	GLN
1	J	88	ILE
1	J	97	LEU
1	J	106	LEU
1	J	109	ARG
1	J	114	MET
1	J	117	THR
1	J	121	LEU
1	J	125	THR
1	J	126	VAL
1	J	127	ASN
1	J	136	ASN
1	J	146	LYS
1	J	149	GLN
1	J	155	ILE
1	J	157	SER
1	J	158	ILE
1	J	159	SER
1	J	166	MET
1	J	167	LEU
1	J	169	ASP
1	J	170	ARG
1	J	173	GLN
1	J	175	ILE
1	J	178	THR
1	J	180	GLU
1	J	185	LYS
1	J	186	THR
1	J	187	VAL
1	J	189	THR
1	J	191	ARG
1	J	193	ILE
1	J	194	GLN
1	J	198	THR

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Mol	Chain	Res	Type
1	J	199	ILE
1	J	218	LEU
1	J	219	GLU
1	J	221	GLN
1	J	223	ILE
1	J	229	LEU
1	J	244	SER
1	J	245	ARG
1	J	251	ARG
1	J	273	SER
1	J	274	ARG
1	J	278	GLN
1	J	282	GLU
1	J	287	ILE
1	J	290	GLN
1	J	291	ILE
1	J	294	ASN
1	J	298	GLU
1	J	300	ILE
1	J	302	MET
1	J	303	LEU
1	J	305	ILE
1	J	315	VAL
1	J	325	ILE
1	J	331	LEU
1	J	332	MET
1	J	336	SER
1	J	351	ILE
1	J	354	LEU
1	J	359	MET
1	J	364	LEU
1	J	365	LYS
1	J	372	GLU
1	J	376	GLU
1	J	381	GLU
1	J	389	LEU
1	J	392	LEU
1	J	394	SER
1	J	399	LYS
1	J	401	LEU
1	J	405	ARG
1	J	410	ASN

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Mol	Chain	Res	Type
1	J	411	GLU
1	J	439	LEU
1	J	448	GLN
1	J	449	LEU
1	J	452	LYS
1	J	453	GLN
1	J	455	ARG
1	J	456	GLN
1	J	457	TYR
1	J	462	LEU
1	J	471	ASP
1	J	480	ILE
1	J	487	LEU
1	J	495	MET
1	J	498	LEU
1	J	506	GLU
1	J	513	ILE
1	J	524	GLU
1	J	530	MET
1	J	532	ILE
1	J	534	SER
1	J	537	GLU
1	J	549	SER
1	J	561	LYS
1	J	562	SER
1	J	569	LYS
1	J	580	SER
1	J	593	SER
1	J	596	LEU
1	J	597	GLU
1	J	604	ASN
1	J	608	ILE
1	J	610	LEU
1	J	615	SER
1	J	621	LEU
1	J	625	THR
1	J	664	LEU
1	J	666	SER
1	J	673	ARG
1	J	675	ILE
1	J	676	ILE
1	J	686	MET

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

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

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

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

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

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Mol	Chain	Res	Type
1	P	754	ASP
1	P	762	HIS
1	P	772	LEU
1	P	774	LEU
1	P	785	GLU
1	P	787	ILE
1	P	793	ARG
1	P	798	LEU
1	P	799	MET
1	P	802	GLU
1	P	810	ARG
1	P	816	ILE
1	P	819	ASN
1	P	822	SER
1	P	832	MET
1	P	834	LEU
1	P	838	ILE
1	P	842	LEU
1	P	843	LYS
3	R	48	LYS
3	R	83	THR
3	R	85	GLU
3	R	96	LYS
4	0	16	LEU
4	0	33	SER
4	0	34	ILE
4	0	37	ARG
4	0	65	LEU
4	0	66	THR
4	0	67	LEU
4	0	72	GLU
4	0	80	ASP
4	0	99	GLU
4	0	100	GLU
4	0	109	PRO
4	0	145	SER
4	0	153	LEU
4	0	159	VAL
4	0	180	LEU
4	0	196	ARG
4	0	199	SER
4	0	201	VAL

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Mol	Chain	Res	Type
4	0	206	ARG
4	0	221	LEU
4	0	223	PHE
4	0	229	THR
4	0	238	LYS
4	0	239	SER
4	0	242	LEU
4	0	246	GLN
4	0	253	GLU
4	0	263	GLN
4	0	274	ILE
4	0	281	SER
4	0	283	MET
4	0	287	ILE
4	0	291	LYS
4	0	293	LEU
4	0	297	ASN
4	0	299	MET
4	0	305	MET
4	0	312	ARG
4	0	315	LYS
4	0	318	THR
4	0	320	LEU
4	0	327	ILE
4	0	334	GLU
4	0	349	LEU
4	0	350	SER
4	0	351	THR
4	0	353	GLN
4	0	354	GLN
4	0	361	GLU
4	0	368	SER
4	1	16	LEU
4	1	33	SER
4	1	34	ILE
4	1	37	ARG
4	1	66	THR
4	1	67	LEU
4	1	72	GLU
4	1	80	ASP
4	1	99	GLU
4	1	100	GLU

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Mol	Chain	Res	Type
4	1	109	PRO
4	1	145	SER
4	1	153	LEU
4	1	159	VAL
4	1	180	LEU
4	1	196	ARG
4	1	199	SER
4	1	201	VAL
4	1	206	ARG
4	1	221	LEU
4	1	223	PHE
4	1	229	THR
4	1	238	LYS
4	1	239	SER
4	1	242	LEU
4	1	246	GLN
4	1	253	GLU
4	1	263	GLN
4	1	274	ILE
4	1	281	SER
4	1	283	MET
4	1	287	ILE
4	1	291	LYS
4	1	293	LEU
4	1	297	ASN
4	1	299	MET
4	1	305	MET
4	1	312	ARG
4	1	315	LYS
4	1	318	THR
4	1	320	LEU
4	1	327	ILE
4	1	334	GLU
4	1	349	LEU
4	1	350	SER
4	1	351	THR
4	1	353	GLN
4	1	354	GLN
4	1	361	GLU
4	1	368	SER
4	2	16	LEU
4	2	33	SER

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Mol	Chain	Res	Type
4	2	34	ILE
4	2	37	ARG
4	2	65	LEU
4	2	66	THR
4	2	67	LEU
4	2	72	GLU
4	2	80	ASP
4	2	99	GLU
4	2	100	GLU
4	2	109	PRO
4	2	145	SER
4	2	153	LEU
4	2	159	VAL
4	2	180	LEU
4	2	196	ARG
4	2	199	SER
4	2	201	VAL
4	2	206	ARG
4	2	221	LEU
4	2	223	PHE
4	2	229	THR
4	2	238	LYS
4	2	239	SER
4	2	242	LEU
4	2	246	GLN
4	2	253	GLU
4	2	263	GLN
4	2	274	ILE
4	2	281	SER
4	2	283	MET
4	2	287	ILE
4	2	291	LYS
4	2	293	LEU
4	2	297	ASN
4	2	299	MET
4	2	305	MET
4	2	312	ARG
4	2	315	LYS
4	2	318	THR
4	2	320	LEU
4	2	327	ILE
4	2	334	GLU

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Mol	Chain	Res	Type
4	2	349	LEU
4	2	350	SER
4	2	351	THR
4	2	353	GLN
4	2	354	GLN
4	2	361	GLU
4	2	368	SER
4	3	16	LEU
4	3	33	SER
4	3	34	ILE
4	3	37	ARG
4	3	65	LEU
4	3	66	THR
4	3	67	LEU
4	3	72	GLU
4	3	80	ASP
4	3	99	GLU
4	3	100	GLU
4	3	109	PRO
4	3	145	SER
4	3	153	LEU
4	3	159	VAL
4	3	180	LEU
4	3	196	ARG
4	3	199	SER
4	3	201	VAL
4	3	206	ARG
4	3	221	LEU
4	3	223	PHE
4	3	229	THR
4	3	238	LYS
4	3	239	SER
4	3	242	LEU
4	3	246	GLN
4	3	253	GLU
4	3	263	GLN
4	3	274	ILE
4	3	281	SER
4	3	283	MET
4	3	287	ILE
4	3	291	LYS
4	3	293	LEU

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Mol	Chain	Res	Type
4	3	297	ASN
4	3	299	MET
4	3	305	MET
4	3	312	ARG
4	3	315	LYS
4	3	318	THR
4	3	320	LEU
4	3	327	ILE
4	3	334	GLU
4	3	349	LEU
4	3	350	SER
4	3	351	THR
4	3	353	GLN
4	3	354	GLN
4	3	361	GLU
4	3	368	SER
4	4	16	LEU
4	4	33	SER
4	4	34	ILE
4	4	37	ARG
4	4	65	LEU
4	4	66	THR
4	4	67	LEU
4	4	72	GLU
4	4	80	ASP
4	4	99	GLU
4	4	100	GLU
4	4	109	PRO
4	4	145	SER
4	4	153	LEU
4	4	159	VAL
4	4	180	LEU
4	4	196	ARG
4	4	199	SER
4	4	201	VAL
4	4	206	ARG
4	4	221	LEU
4	4	223	PHE
4	4	229	THR
4	4	238	LYS
4	4	239	SER
4	4	242	LEU

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Mol	Chain	Res	Type
4	4	246	GLN
4	4	253	GLU
4	4	263	GLN
4	4	274	ILE
4	4	281	SER
4	4	283	MET
4	4	287	ILE
4	4	291	LYS
4	4	293	LEU
4	4	297	ASN
4	4	299	MET
4	4	305	MET
4	4	312	ARG
4	4	315	LYS
4	4	318	THR
4	4	320	LEU
4	4	327	ILE
4	4	334	GLU
4	4	349	LEU
4	4	350	SER
4	4	351	THR
4	4	353	GLN
4	4	354	GLN
4	4	361	GLU
4	4	368	SER
4	5	16	LEU
4	5	33	SER
4	5	34	ILE
4	5	37	ARG
4	5	65	LEU
4	5	66	THR
4	5	67	LEU
4	5	72	GLU
4	5	80	ASP
4	5	99	GLU
4	5	100	GLU
4	5	109	PRO
4	5	145	SER
4	5	153	LEU
4	5	159	VAL
4	5	180	LEU
4	5	196	ARG

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Mol	Chain	Res	Type
4	5	199	SER
4	5	201	VAL
4	5	206	ARG
4	5	221	LEU
4	5	223	PHE
4	5	229	THR
4	5	238	LYS
4	5	239	SER
4	5	242	LEU
4	5	246	GLN
4	5	253	GLU
4	5	263	GLN
4	5	274	ILE
4	5	281	SER
4	5	283	MET
4	5	287	ILE
4	5	291	LYS
4	5	293	LEU
4	5	297	ASN
4	5	299	MET
4	5	305	MET
4	5	312	ARG
4	5	315	LYS
4	5	318	THR
4	5	320	LEU
4	5	327	ILE
4	5	334	GLU
4	5	349	LEU
4	5	350	SER
4	5	351	THR
4	5	353	GLN
4	5	354	GLN
4	5	361	GLU
4	5	368	SER
4	7	16	LEU
4	7	33	SER
4	7	34	ILE
4	7	37	ARG
4	7	65	LEU
4	7	66	THR
4	7	67	LEU
4	7	72	GLU

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Mol	Chain	Res	Type
4	7	80	ASP
4	7	99	GLU
4	7	100	GLU
4	7	109	PRO
4	7	145	SER
4	7	153	LEU
4	7	159	VAL
4	7	180	LEU
4	7	196	ARG
4	7	199	SER
4	7	201	VAL
4	7	206	ARG
4	7	221	LEU
4	7	223	PHE
4	7	229	THR
4	7	238	LYS
4	7	239	SER
4	7	242	LEU
4	7	246	GLN
4	7	253	GLU
4	7	263	GLN
4	7	274	ILE
4	7	281	SER
4	7	283	MET
4	7	287	ILE
4	7	291	LYS
4	7	293	LEU
4	7	297	ASN
4	7	299	MET
4	7	305	MET
4	7	312	ARG
4	7	315	LYS
4	7	318	THR
4	7	320	LEU
4	7	327	ILE
4	7	334	GLU
4	7	349	LEU
4	7	350	SER
4	7	351	THR
4	7	353	GLN
4	7	354	GLN
4	7	361	GLU

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Mol	Chain	Res	Type
4	7	368	SER
4	8	16	LEU
4	8	33	SER
4	8	34	ILE
4	8	37	ARG
4	8	65	LEU
4	8	66	THR
4	8	67	LEU
4	8	72	GLU
4	8	80	ASP
4	8	99	GLU
4	8	100	GLU
4	8	109	PRO
4	8	145	SER
4	8	153	LEU
4	8	159	VAL
4	8	180	LEU
4	8	196	ARG
4	8	199	SER
4	8	201	VAL
4	8	206	ARG
4	8	221	LEU
4	8	223	PHE
4	8	229	THR
4	8	238	LYS
4	8	239	SER
4	8	242	LEU
4	8	246	GLN
4	8	253	GLU
4	8	263	GLN
4	8	274	ILE
4	8	281	SER
4	8	283	MET
4	8	287	ILE
4	8	291	LYS
4	8	293	LEU
4	8	297	ASN
4	8	299	MET
4	8	305	MET
4	8	312	ARG
4	8	315	LYS
4	8	318	THR

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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	353	GLN
4	8	354	GLN
4	8	361	GLU
4	8	368	SER
4	9	16	LEU
4	9	33	SER
4	9	34	ILE
4	9	37	ARG
4	9	65	LEU
4	9	66	THR
4	9	67	LEU
4	9	72	GLU
4	9	80	ASP
4	9	99	GLU
4	9	100	GLU
4	9	109	PRO
4	9	145	SER
4	9	153	LEU
4	9	159	VAL
4	9	180	LEU
4	9	196	ARG
4	9	199	SER
4	9	201	VAL
4	9	206	ARG
4	9	221	LEU
4	9	223	PHE
4	9	229	THR
4	9	238	LYS
4	9	239	SER
4	9	242	LEU
4	9	246	GLN
4	9	253	GLU
4	9	263	GLN
4	9	274	ILE
4	9	281	SER
4	9	283	MET

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Mol	Chain	Res	Type
4	9	287	ILE
4	9	291	LYS
4	9	293	LEU
4	9	297	ASN
4	9	299	MET
4	9	305	MET
4	9	312	ARG
4	9	315	LYS
4	9	318	THR
4	9	320	LEU
4	9	327	ILE
4	9	334	GLU
4	9	349	LEU
4	9	350	SER
4	9	351	THR
4	9	353	GLN
4	9	354	GLN
4	9	361	GLU
4	9	368	SER
4	V	16	LEU
4	V	33	SER
4	V	34	ILE
4	V	37	ARG
4	V	66	THR
4	V	67	LEU
4	V	72	GLU
4	V	80	ASP
4	V	99	GLU
4	V	100	GLU
4	V	109	PRO
4	V	145	SER
4	V	153	LEU
4	V	159	VAL
4	V	180	LEU
4	V	196	ARG
4	V	199	SER
4	V	201	VAL
4	V	206	ARG
4	V	221	LEU
4	V	223	PHE
4	V	229	THR
4	V	238	LYS

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Mol	Chain	Res	Type
4	V	239	SER
4	V	242	LEU
4	V	246	GLN
4	V	253	GLU
4	V	263	GLN
4	V	274	ILE
4	V	281	SER
4	V	283	MET
4	V	287	ILE
4	V	291	LYS
4	V	293	LEU
4	V	297	ASN
4	V	299	MET
4	V	305	MET
4	V	312	ARG
4	V	315	LYS
4	V	318	THR
4	V	320	LEU
4	V	327	ILE
4	V	334	GLU
4	V	349	LEU
4	V	350	SER
4	V	351	THR
4	V	353	GLN
4	V	354	GLN
4	V	361	GLU
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	67	LEU
4	W	72	GLU
4	W	80	ASP
4	W	99	GLU
4	W	100	GLU
4	W	109	PRO
4	W	145	SER
4	W	153	LEU
4	W	159	VAL
4	W	180	LEU

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

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

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

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

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (254) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	GLN
1	A	29	ASN
1	A	76	GLN
1	A	127	ASN
1	A	154	HIS
1	A	164	GLN
1	A	188	ASN
1	A	194	GLN
1	A	221	GLN
1	A	234	ASN
1	A	253	HIS
1	A	290	GLN
1	A	360	HIS
1	A	368	GLN
1	A	424	ASN
1	A	447	GLN
1	A	453	GLN
1	A	481	ASN

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

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

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Mol	Chain	Res	Type
1	J	234	ASN
1	J	253	HIS
1	J	290	GLN
1	J	360	HIS
1	J	368	GLN
1	J	424	ASN
1	J	447	GLN
1	J	453	GLN
1	J	481	ASN
1	J	484	ASN
1	J	488	GLN
1	J	552	ASN
1	J	563	ASN
1	J	564	ASN
1	J	578	HIS
1	J	591	ASN
1	J	612	GLN
1	J	656	ASN
1	J	670	HIS
1	J	698	ASN
1	J	762	HIS
1	J	791	GLN
1	J	825	ASN
2	K	159	HIS
3	L	40	ASN
3	L	52	ASN
3	L	59	ASN
1	P	76	GLN
1	P	127	ASN
1	P	149	GLN
1	P	164	GLN
1	P	188	ASN
1	P	194	GLN
1	P	221	GLN
1	P	234	ASN
1	P	253	HIS
1	P	290	GLN
1	P	360	HIS
1	P	368	GLN
1	P	424	ASN
1	P	453	GLN
1	P	481	ASN

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Mol	Chain	Res	Type
1	P	484	ASN
1	P	488	GLN
1	P	552	ASN
1	P	563	ASN
1	P	564	ASN
1	P	578	HIS
1	P	591	ASN
1	P	612	GLN
1	P	656	ASN
1	P	670	HIS
1	P	698	ASN
1	P	825	ASN
2	Q	159	HIS
3	R	52	ASN
3	R	59	ASN
3	R	81	GLN
4	0	40	HIS
4	0	41	GLN
4	0	78	ASN
4	0	137	GLN
4	0	252	ASN
4	0	263	GLN
4	0	360	GLN
4	1	40	HIS
4	1	41	GLN
4	1	78	ASN
4	1	137	GLN
4	1	263	GLN
4	1	354	GLN
4	2	40	HIS
4	2	41	GLN
4	2	78	ASN
4	2	252	ASN
4	2	263	GLN
4	2	354	GLN
4	2	360	GLN
4	3	40	HIS
4	3	41	GLN
4	3	78	ASN
4	3	137	GLN
4	3	263	GLN
4	3	354	GLN

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Mol	Chain	Res	Type
4	4	40	HIS
4	4	41	GLN
4	4	78	ASN
4	4	111	ASN
4	4	137	GLN
4	4	252	ASN
4	4	263	GLN
4	4	354	GLN
4	5	40	HIS
4	5	41	GLN
4	5	78	ASN
4	5	263	GLN
4	5	354	GLN
4	7	40	HIS
4	7	41	GLN
4	7	78	ASN
4	7	137	GLN
4	7	252	ASN
4	7	263	GLN
4	7	354	GLN
4	8	40	HIS
4	8	41	GLN
4	8	78	ASN
4	8	252	ASN
4	8	263	GLN
4	8	360	GLN
4	9	40	HIS
4	9	41	GLN
4	9	78	ASN
4	9	252	ASN
4	9	263	GLN
4	9	360	GLN
4	V	40	HIS
4	V	41	GLN
4	V	78	ASN
4	V	137	GLN
4	V	252	ASN
4	V	263	GLN
4	W	40	HIS
4	W	41	GLN
4	W	78	ASN
4	W	137	GLN

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	A	553	4,1	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	A	598	1	9,10,11	0.84	1 (11%)	6,11,13	0.42	0
1	MLY	A	55	1	9,10,11	0.71	0	6,11,13	0.80	0
1	MLY	P	49	1	9,10,11	1.00	1 (11%)	6,11,13	0.75	0
1	MLY	J	415	1	9,10,11	0.76	0	6,11,13	0.19	0
1	MLY	A	600	1	9,10,11	0.53	0	6,11,13	0.39	0
1	MLY	P	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.82	0
1	MLY	D	505	1	9,10,11	0.77	0	6,11,13	0.34	0
1	MLY	P	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.45	0
1	MLY	D	63	1	9,10,11	0.86	0	6,11,13	0.45	0
1	MLY	D	837	1	9,10,11	0.59	0	6,11,13	0.58	0
1	MLY	P	613	1	9,10,11	0.56	0	6,11,13	0.61	0
1	MLY	G	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	D	431	1	9,10,11	0.51	0	6,11,13	0.46	0
1	MLY	G	613	1	9,10,11	0.59	0	6,11,13	0.62	0
1	MLY	J	138	1	9,10,11	1.20	1 (11%)	6,11,13	0.82	0
1	MLY	D	681	1	9,10,11	0.53	0	6,11,13	0.46	0
1	MLY	G	296	1	9,10,11	0.62	0	6,11,13	0.36	0
1	MLY	J	84	1	9,10,11	0.51	0	6,11,13	0.80	0
1	MLY	G	553	4,1	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	G	598	1	9,10,11	0.83	0	6,11,13	0.42	0
1	MLY	G	55	1	9,10,11	0.74	0	6,11,13	0.81	0
1	MLY	G	84	1	9,10,11	0.49	0	6,11,13	0.81	0
1	MLY	P	504	1	9,10,11	0.82	0	6,11,13	0.21	0
1	MLY	J	504	1	9,10,11	0.84	0	6,11,13	0.22	0
1	MLY	A	768	1	9,10,11	0.77	0	6,11,13	0.41	0
1	MLY	G	248	1	9,10,11	0.80	0	6,11,13	0.66	0
1	MLY	P	59	1	9,10,11	0.87	0	6,11,13	0.47	0
1	MLY	A	353	1	9,10,11	0.87	0	6,11,13	0.80	0
1	MLY	D	613	1	9,10,11	0.58	0	6,11,13	0.62	0
1	MLY	D	138	1	9,10,11	1.26	1 (11%)	6,11,13	0.83	0
1	MLY	A	30	1	9,10,11	0.91	0	6,11,13	0.32	0
1	MLY	D	782	1	9,10,11	0.81	0	6,11,13	0.35	0
1	MLY	P	837	1	9,10,11	0.58	0	6,11,13	0.57	0
1	MLY	G	431	1	9,10,11	0.52	0	6,11,13	0.46	0
1	MLY	D	827	1	9,10,11	0.65	0	6,11,13	0.48	0
1	MLY	A	248	1	9,10,11	0.81	0	6,11,13	0.64	0
1	MLY	A	528	1	9,10,11	0.89	0	6,11,13	0.67	0
1	MLY	A	659	1	9,10,11	0.84	1 (11%)	6,11,13	0.60	0
1	MLY	A	295	1	9,10,11	0.78	0	6,11,13	0.35	0
1	MLY	A	369	1	9,10,11	0.73	0	6,11,13	0.46	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	G	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	G	486	1	9,10,11	0.67	0	6,11,13	0.40	0
1	MLY	D	295	1	9,10,11	0.76	0	6,11,13	0.37	0
1	MLY	G	827	1	9,10,11	0.67	0	6,11,13	0.49	0
1	MLY	P	55	1	9,10,11	0.73	0	6,11,13	0.79	0
1	MLY	A	190	1	9,10,11	1.23	2 (22%)	6,11,13	0.52	0
1	MLY	G	30	1	9,10,11	0.90	0	6,11,13	0.30	0
1	MLY	J	55	1	9,10,11	0.73	0	6,11,13	0.80	0
1	MLY	D	486	1	9,10,11	0.67	0	6,11,13	0.40	0
1	MLY	P	296	1	9,10,11	0.63	0	6,11,13	0.35	0
1	MLY	D	768	1	9,10,11	0.74	0	6,11,13	0.41	0
1	MLY	A	486	1	9,10,11	0.68	0	6,11,13	0.39	0
1	MLY	D	190	1	9,10,11	1.18	2 (22%)	6,11,13	0.54	0
1	MLY	G	659	1	9,10,11	0.84	1 (11%)	6,11,13	0.58	0
1	MLY	G	369	1	9,10,11	0.70	0	6,11,13	0.46	0
1	MLY	J	764	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	D	348	1	9,10,11	0.77	0	6,11,13	0.47	0
1	MLY	J	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.53	0
1	MLY	G	190	1	9,10,11	1.20	2 (22%)	6,11,13	0.53	0
1	MLY	J	553	1	9,10,11	0.65	0	6,11,13	0.53	0
1	MLY	J	295	1	9,10,11	0.76	0	6,11,13	0.37	0
1	MLY	D	87	1	9,10,11	1.08	1 (11%)	6,11,13	0.44	0
1	MLY	G	138	1	9,10,11	1.22	1 (11%)	6,11,13	0.83	0
1	MLY	J	486	1	9,10,11	0.65	0	6,11,13	0.40	0
1	MLY	D	528	1	9,10,11	0.92	0	6,11,13	0.64	0
1	MLY	D	30	1	9,10,11	0.92	0	6,11,13	0.31	0
1	MLY	D	617	1	9,10,11	0.90	0	6,11,13	0.35	0
1	MLY	J	107	1	9,10,11	0.49	0	6,11,13	0.33	0
1	MLY	A	764	1	9,10,11	0.82	0	6,11,13	0.35	0
1	MLY	J	768	1	9,10,11	0.77	0	6,11,13	0.42	0
1	MLY	P	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	G	107	1	9,10,11	0.48	0	6,11,13	0.33	0
1	MLY	G	59	1	9,10,11	0.84	0	6,11,13	0.48	0
1	MLY	A	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.49	0
1	MLY	P	768	1	9,10,11	0.77	0	6,11,13	0.43	0
1	MLY	G	768	1	9,10,11	0.73	0	6,11,13	0.41	0
1	MLY	P	436	1	9,10,11	0.97	1 (11%)	6,11,13	0.48	0
1	MLY	J	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	A	415	1	9,10,11	0.72	0	6,11,13	0.19	0
1	MLY	P	30	1	9,10,11	0.90	0	6,11,13	0.30	0
1	MLY	P	63	1	9,10,11	0.86	0	6,11,13	0.43	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	A	504	1	9,10,11	0.88	0	6,11,13	0.23	0
1	MLY	D	296	1	9,10,11	0.64	0	6,11,13	0.36	0
1	MLY	D	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	J	87	1	9,10,11	1.12	1 (11%)	6,11,13	0.43	0
1	MLY	P	87	1	9,10,11	1.15	1 (11%)	6,11,13	0.43	0
1	MLY	P	505	1	9,10,11	0.85	0	6,11,13	0.34	0
1	MLY	G	236	1	9,10,11	0.82	1 (11%)	6,11,13	0.48	0
1	MLY	P	84	1	9,10,11	0.50	0	6,11,13	0.81	0
1	MLY	A	837	1	9,10,11	0.59	0	6,11,13	0.54	0
1	MLY	J	431	1	9,10,11	0.52	0	6,11,13	0.45	0
1	MLY	P	431	1	9,10,11	0.51	0	6,11,13	0.44	0
1	MLY	D	59	1	9,10,11	0.85	0	6,11,13	0.48	0
1	MLY	P	367	1	9,10,11	0.58	0	6,11,13	0.36	0
1	MLY	J	833	1	9,10,11	1.15	2 (22%)	6,11,13	0.31	0
1	MLY	J	49	1	9,10,11	1.00	1 (11%)	6,11,13	0.75	0
1	MLY	G	504	1	9,10,11	0.88	0	6,11,13	0.23	0
1	MLY	D	367	1	9,10,11	0.58	0	6,11,13	0.38	0
1	MLY	P	764	1	9,10,11	0.81	0	6,11,13	0.38	0
1	MLY	A	49	1	9,10,11	0.96	1 (11%)	6,11,13	0.74	0
1	MLY	G	833	1	9,10,11	1.15	1 (11%)	6,11,13	0.31	0
1	MLY	J	613	1	9,10,11	0.56	0	6,11,13	0.62	0
1	MLY	A	617	1	9,10,11	0.88	0	6,11,13	0.35	0
1	MLY	A	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	A	84	1	9,10,11	0.50	0	6,11,13	0.80	0
1	MLY	G	837	1	9,10,11	0.58	0	6,11,13	0.53	0
1	MLY	P	248	1	9,10,11	0.80	0	6,11,13	0.65	0
1	MLY	D	49	1	9,10,11	0.99	1 (11%)	6,11,13	0.75	0
1	MLY	J	681	1	9,10,11	0.57	0	6,11,13	0.47	0
1	MLY	J	248	1	9,10,11	0.81	0	6,11,13	0.66	0
1	MLY	J	528	1	9,10,11	0.89	0	6,11,13	0.66	0
1	MLY	P	681	1	9,10,11	0.58	0	6,11,13	0.46	0
1	MLY	D	84	1	9,10,11	0.51	0	6,11,13	0.81	0
1	MLY	G	681	1	9,10,11	0.58	0	6,11,13	0.46	0
1	MLY	A	272	1	9,10,11	0.90	1 (11%)	6,11,13	0.56	0
1	MLY	D	272	1	9,10,11	0.89	1 (11%)	6,11,13	0.58	0
1	MLY	G	49	1	9,10,11	1.00	1 (11%)	6,11,13	0.74	0
1	MLY	J	30	1	9,10,11	0.91	0	6,11,13	0.31	0
1	MLY	G	35	1	9,10,11	0.73	0	6,11,13	0.39	0
1	MLY	A	59	1	9,10,11	0.85	0	6,11,13	0.47	0
1	MLY	A	348	1	9,10,11	0.80	0	6,11,13	0.48	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	J	385	1	9,10,11	0.96	1 (11%)	6,11,13	0.45	0
1	MLY	P	353	1	9,10,11	0.86	0	6,11,13	0.80	0
1	MLY	P	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.47	0
1	MLY	G	353	1	9,10,11	0.87	0	6,11,13	0.82	0
1	MLY	G	367	1	9,10,11	0.60	0	6,11,13	0.39	0
1	MLY	G	436	1	9,10,11	0.96	1 (11%)	6,11,13	0.46	0
1	MLY	J	617	1	9,10,11	0.89	0	6,11,13	0.34	0
1	MLY	J	130	1	9,10,11	0.77	0	6,11,13	0.73	0
1	MLY	A	613	1	9,10,11	0.57	0	6,11,13	0.62	0
1	MLY	J	505	1	9,10,11	0.85	1 (11%)	6,11,13	0.33	0
1	MLY	A	107	1	9,10,11	0.47	0	6,11,13	0.34	0
1	MLY	J	19	1	9,10,11	1.08	1 (11%)	6,11,13	0.58	0
1	MLY	J	369	1	9,10,11	0.70	0	6,11,13	0.45	0
1	MLY	G	130	1	9,10,11	0.78	0	6,11,13	0.74	0
1	MLY	J	348	1	9,10,11	0.77	0	6,11,13	0.47	0
1	MLY	J	659	1	9,10,11	0.84	1 (11%)	6,11,13	0.57	0
1	MLY	A	296	1	9,10,11	0.61	0	6,11,13	0.36	0
1	MLY	D	107	1	9,10,11	0.52	0	6,11,13	0.33	0
1	MLY	P	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	J	272	1	9,10,11	0.92	1 (11%)	6,11,13	0.55	0
1	MLY	D	35	1	9,10,11	0.74	0	6,11,13	0.38	0
1	MLY	D	553	4,1	9,10,11	0.66	0	6,11,13	0.55	0
1	MLY	D	55	1	9,10,11	0.72	0	6,11,13	0.81	0
1	MLY	D	598	1	9,10,11	0.84	1 (11%)	6,11,13	0.42	0
1	MLY	D	130	1	9,10,11	0.80	0	6,11,13	0.72	0
1	MLY	D	600	1	9,10,11	0.52	0	6,11,13	0.38	0
1	MLY	J	827	1	9,10,11	0.72	0	6,11,13	0.47	0
1	MLY	J	436	1	9,10,11	0.94	1 (11%)	6,11,13	0.48	0
1	MLY	P	551	1	9,10,11	0.52	0	6,11,13	0.18	0
1	MLY	G	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	D	764	1	9,10,11	0.84	0	6,11,13	0.34	0
1	MLY	A	431	1	9,10,11	0.51	0	6,11,13	0.45	0
1	MLY	A	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	J	296	1	9,10,11	0.65	0	6,11,13	0.35	0
1	MLY	J	598	1	9,10,11	0.82	0	6,11,13	0.41	0
1	MLY	J	782	1	9,10,11	0.81	0	6,11,13	0.36	0
1	MLY	A	839	1	9,10,11	0.64	0	6,11,13	0.82	0
1	MLY	A	436	1	9,10,11	0.95	1 (11%)	6,11,13	0.49	0
1	MLY	D	369	1	9,10,11	0.71	0	6,11,13	0.45	0
1	MLY	D	415	1	9,10,11	0.74	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	G	87	1	9,10,11	1.12	1 (11%)	6,11,13	0.42	0
1	MLY	J	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.48	0
1	MLY	J	837	1	9,10,11	0.57	0	6,11,13	0.55	0
1	MLY	A	833	1	9,10,11	1.12	1 (11%)	6,11,13	0.32	0
1	MLY	G	505	1	9,10,11	0.81	0	6,11,13	0.36	0
1	MLY	P	598	1	9,10,11	0.83	0	6,11,13	0.41	0
1	MLY	P	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.53	0
1	MLY	A	87	1	9,10,11	1.12	1 (11%)	6,11,13	0.42	0
1	MLY	J	839	1	9,10,11	0.65	0	6,11,13	0.78	0
1	MLY	A	130	1	9,10,11	0.80	0	6,11,13	0.73	0
1	MLY	D	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.48	0
1	MLY	A	505	1	9,10,11	0.83	0	6,11,13	0.34	0
1	MLY	P	295	1	9,10,11	0.77	0	6,11,13	0.38	0
1	MLY	P	369	1	9,10,11	0.71	0	6,11,13	0.46	0
1	MLY	P	528	1	9,10,11	0.89	0	6,11,13	0.65	0
1	MLY	G	839	1	9,10,11	0.64	0	6,11,13	0.80	0
1	MLY	P	486	1	9,10,11	0.67	0	6,11,13	0.40	0
1	MLY	D	504	1	9,10,11	0.87	0	6,11,13	0.21	0
1	MLY	P	839	1	9,10,11	0.67	0	6,11,13	0.77	0
1	MLY	P	107	1	9,10,11	0.49	0	6,11,13	0.33	0
1	MLY	J	367	1	9,10,11	0.60	0	6,11,13	0.37	0
1	MLY	A	681	1	9,10,11	0.56	0	6,11,13	0.45	0
1	MLY	P	348	1	9,10,11	0.77	0	6,11,13	0.47	0
1	MLY	P	782	1	9,10,11	0.80	0	6,11,13	0.39	0
1	MLY	A	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	P	600	1	9,10,11	0.54	0	6,11,13	0.38	0
1	MLY	J	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	G	764	1	9,10,11	0.81	0	6,11,13	0.36	0
1	MLY	P	827	1	9,10,11	0.68	0	6,11,13	0.47	0
1	MLY	A	19	1	9,10,11	1.02	1 (11%)	6,11,13	0.59	0
1	MLY	D	353	1	9,10,11	0.86	0	6,11,13	0.81	0
1	MLY	D	833	1	9,10,11	1.14	1 (11%)	6,11,13	0.31	0
1	MLY	G	385	1	9,10,11	0.92	1 (11%)	6,11,13	0.45	0
1	MLY	A	782	1	9,10,11	0.83	1 (11%)	6,11,13	0.36	0
1	MLY	P	19	1	9,10,11	1.06	1 (11%)	6,11,13	0.58	0
1	MLY	A	385	1	9,10,11	0.92	1 (11%)	6,11,13	0.44	0
1	MLY	A	827	1	9,10,11	0.70	0	6,11,13	0.44	0
1	MLY	D	19	1	9,10,11	1.07	1 (11%)	6,11,13	0.56	0
1	MLY	P	659	1	9,10,11	0.81	0	6,11,13	0.58	0
1	MLY	G	295	1	9,10,11	0.77	0	6,11,13	0.35	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	P	617	1	9,10,11	0.91	0	6,11,13	0.34	0
1	MLY	D	659	1	9,10,11	0.83	1 (11%)	6,11,13	0.59	0
1	MLY	A	63	1	9,10,11	0.89	0	6,11,13	0.44	0
1	MLY	P	130	1	9,10,11	0.76	0	6,11,13	0.74	0
1	MLY	G	617	1	9,10,11	0.90	0	6,11,13	0.35	0
1	MLY	P	833	1	9,10,11	1.15	2 (22%)	6,11,13	0.30	0
1	MLY	D	248	1	9,10,11	0.80	0	6,11,13	0.65	0
1	MLY	G	19	1	9,10,11	1.05	1 (11%)	6,11,13	0.58	0
1	MLY	J	35	1	9,10,11	0.73	0	6,11,13	0.39	0
1	MLY	G	348	1	9,10,11	0.80	0	6,11,13	0.47	0
1	MLY	A	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.82	0
1	MLY	P	553	1	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	P	272	1	9,10,11	0.91	1 (11%)	6,11,13	0.55	0
1	MLY	G	782	1	9,10,11	0.80	0	6,11,13	0.36	0
1	MLY	J	353	1	9,10,11	0.86	0	6,11,13	0.80	0
1	MLY	D	839	1	9,10,11	0.64	0	6,11,13	0.79	0
1	MLY	G	272	1	9,10,11	0.88	1 (11%)	6,11,13	0.54	0
1	MLY	D	436	1	9,10,11	0.99	1 (11%)	6,11,13	0.48	0
1	MLY	D	385	1	9,10,11	0.92	1 (11%)	6,11,13	0.45	0
1	MLY	J	59	1	9,10,11	0.85	0	6,11,13	0.48	0
1	MLY	J	63	1	9,10,11	0.88	0	6,11,13	0.44	0
1	MLY	G	63	1	9,10,11	0.86	0	6,11,13	0.45	0
1	MLY	G	528	1	9,10,11	0.90	0	6,11,13	0.66	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	553	4,1	-	4/8/9/11	-
1	MLY	A	598	1	-	5/8/9/11	-
1	MLY	A	55	1	-	6/8/9/11	-
1	MLY	P	49	1	-	3/8/9/11	-
1	MLY	J	415	1	-	3/8/9/11	-
1	MLY	A	600	1	-	3/8/9/11	-
1	MLY	P	138	1	-	4/8/9/11	-
1	MLY	D	505	1	-	5/8/9/11	-
1	MLY	P	385	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	63	1	-	4/8/9/11	-
1	MLY	D	837	1	-	6/8/9/11	-
1	MLY	P	613	1	-	3/8/9/11	-
1	MLY	G	415	1	-	3/8/9/11	-
1	MLY	D	431	1	-	4/8/9/11	-
1	MLY	G	613	1	-	3/8/9/11	-
1	MLY	J	138	1	-	4/8/9/11	-
1	MLY	D	681	1	-	4/8/9/11	-
1	MLY	G	296	1	-	4/8/9/11	-
1	MLY	J	84	1	-	4/8/9/11	-
1	MLY	G	553	4,1	-	4/8/9/11	-
1	MLY	G	598	1	-	5/8/9/11	-
1	MLY	G	55	1	-	6/8/9/11	-
1	MLY	G	84	1	-	4/8/9/11	-
1	MLY	P	504	1	-	4/8/9/11	-
1	MLY	J	504	1	-	4/8/9/11	-
1	MLY	A	768	1	-	4/8/9/11	-
1	MLY	G	248	1	-	6/8/9/11	-
1	MLY	P	59	1	-	3/8/9/11	-
1	MLY	A	353	1	-	4/8/9/11	-
1	MLY	D	613	1	-	3/8/9/11	-
1	MLY	D	138	1	-	4/8/9/11	-
1	MLY	A	30	1	-	3/8/9/11	-
1	MLY	D	782	1	-	6/8/9/11	-
1	MLY	P	837	1	-	6/8/9/11	-
1	MLY	G	431	1	-	4/8/9/11	-
1	MLY	D	827	1	-	1/8/9/11	-
1	MLY	A	248	1	-	6/8/9/11	-
1	MLY	A	528	1	-	4/8/9/11	-
1	MLY	A	659	1	-	3/8/9/11	-
1	MLY	A	295	1	-	2/8/9/11	-
1	MLY	A	369	1	-	2/8/9/11	-
1	MLY	G	600	1	-	3/8/9/11	-
1	MLY	G	486	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	295	1	-	2/8/9/11	-
1	MLY	G	827	1	-	1/8/9/11	-
1	MLY	P	55	1	-	6/8/9/11	-
1	MLY	A	190	1	-	4/8/9/11	-
1	MLY	G	30	1	-	3/8/9/11	-
1	MLY	J	55	1	-	6/8/9/11	-
1	MLY	D	486	1	-	2/8/9/11	-
1	MLY	P	296	1	-	4/8/9/11	-
1	MLY	D	768	1	-	4/8/9/11	-
1	MLY	A	486	1	-	2/8/9/11	-
1	MLY	D	190	1	-	4/8/9/11	-
1	MLY	G	659	1	-	3/8/9/11	-
1	MLY	G	369	1	-	2/8/9/11	-
1	MLY	J	764	1	-	2/8/9/11	-
1	MLY	D	348	1	-	5/8/9/11	-
1	MLY	J	190	1	-	4/8/9/11	-
1	MLY	G	190	1	-	4/8/9/11	-
1	MLY	J	553	1	-	4/8/9/11	-
1	MLY	J	295	1	-	2/8/9/11	-
1	MLY	D	87	1	-	2/8/9/11	-
1	MLY	G	138	1	-	4/8/9/11	-
1	MLY	J	486	1	-	2/8/9/11	-
1	MLY	D	528	1	-	4/8/9/11	-
1	MLY	D	30	1	-	3/8/9/11	-
1	MLY	D	617	1	-	2/8/9/11	-
1	MLY	J	107	1	-	2/8/9/11	-
1	MLY	A	764	1	-	2/8/9/11	-
1	MLY	J	768	1	-	4/8/9/11	-
1	MLY	P	35	1	-	3/8/9/11	-
1	MLY	G	107	1	-	2/8/9/11	-
1	MLY	G	59	1	-	3/8/9/11	-
1	MLY	A	236	1	-	3/8/9/11	-
1	MLY	P	768	1	-	4/8/9/11	-
1	MLY	G	768	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	436	1	-	4/8/9/11	-
1	MLY	J	551	1	-	3/8/9/11	-
1	MLY	A	415	1	-	3/8/9/11	-
1	MLY	P	30	1	-	3/8/9/11	-
1	MLY	P	63	1	-	4/8/9/11	-
1	MLY	A	504	1	-	4/8/9/11	-
1	MLY	D	296	1	-	4/8/9/11	-
1	MLY	D	551	1	-	3/8/9/11	-
1	MLY	J	87	1	-	2/8/9/11	-
1	MLY	P	87	1	-	2/8/9/11	-
1	MLY	P	505	1	-	5/8/9/11	-
1	MLY	G	236	1	-	3/8/9/11	-
1	MLY	P	84	1	-	4/8/9/11	-
1	MLY	A	837	1	-	6/8/9/11	-
1	MLY	J	431	1	-	4/8/9/11	-
1	MLY	P	431	1	-	4/8/9/11	-
1	MLY	D	59	1	-	3/8/9/11	-
1	MLY	P	367	1	-	2/8/9/11	-
1	MLY	J	833	1	-	6/8/9/11	-
1	MLY	J	49	1	-	3/8/9/11	-
1	MLY	G	504	1	-	4/8/9/11	-
1	MLY	D	367	1	-	2/8/9/11	-
1	MLY	P	764	1	-	2/8/9/11	-
1	MLY	A	49	1	-	3/8/9/11	-
1	MLY	G	833	1	-	6/8/9/11	-
1	MLY	J	613	1	-	3/8/9/11	-
1	MLY	A	617	1	-	2/8/9/11	-
1	MLY	A	35	1	-	3/8/9/11	-
1	MLY	A	84	1	-	4/8/9/11	-
1	MLY	G	837	1	-	6/8/9/11	-
1	MLY	P	248	1	-	6/8/9/11	-
1	MLY	D	49	1	-	3/8/9/11	-
1	MLY	J	681	1	-	4/8/9/11	-
1	MLY	J	248	1	-	6/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	528	1	-	4/8/9/11	-
1	MLY	P	681	1	-	4/8/9/11	-
1	MLY	D	84	1	-	4/8/9/11	-
1	MLY	G	681	1	-	4/8/9/11	-
1	MLY	A	272	1	-	3/8/9/11	-
1	MLY	D	272	1	-	3/8/9/11	-
1	MLY	G	49	1	-	3/8/9/11	-
1	MLY	J	30	1	-	3/8/9/11	-
1	MLY	G	35	1	-	3/8/9/11	-
1	MLY	A	59	1	-	3/8/9/11	-
1	MLY	A	348	1	-	5/8/9/11	-
1	MLY	J	385	1	-	2/8/9/11	-
1	MLY	P	353	1	-	4/8/9/11	-
1	MLY	P	236	1	-	3/8/9/11	-
1	MLY	G	353	1	-	4/8/9/11	-
1	MLY	G	367	1	-	2/8/9/11	-
1	MLY	G	436	1	-	4/8/9/11	-
1	MLY	J	617	1	-	2/8/9/11	-
1	MLY	J	130	1	-	5/8/9/11	-
1	MLY	A	613	1	-	3/8/9/11	-
1	MLY	J	505	1	-	5/8/9/11	-
1	MLY	A	107	1	-	2/8/9/11	-
1	MLY	J	19	1	-	4/8/9/11	-
1	MLY	J	369	1	-	2/8/9/11	-
1	MLY	G	130	1	-	5/8/9/11	-
1	MLY	J	348	1	-	5/8/9/11	-
1	MLY	J	659	1	-	3/8/9/11	-
1	MLY	A	296	1	-	4/8/9/11	-
1	MLY	D	107	1	-	2/8/9/11	-
1	MLY	P	415	1	-	3/8/9/11	-
1	MLY	J	272	1	-	3/8/9/11	-
1	MLY	D	35	1	-	3/8/9/11	-
1	MLY	D	553	4,1	-	5/8/9/11	-
1	MLY	D	55	1	-	6/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	598	1	-	5/8/9/11	-
1	MLY	D	130	1	-	5/8/9/11	-
1	MLY	D	600	1	-	3/8/9/11	-
1	MLY	J	827	1	-	1/8/9/11	-
1	MLY	J	436	1	-	4/8/9/11	-
1	MLY	P	551	1	-	3/8/9/11	-
1	MLY	G	551	1	-	3/8/9/11	-
1	MLY	D	764	1	-	2/8/9/11	-
1	MLY	A	431	1	-	4/8/9/11	-
1	MLY	A	551	1	-	3/8/9/11	-
1	MLY	J	296	1	-	4/8/9/11	-
1	MLY	J	598	1	-	5/8/9/11	-
1	MLY	J	782	1	-	6/8/9/11	-
1	MLY	A	839	1	-	3/8/9/11	-
1	MLY	A	436	1	-	4/8/9/11	-
1	MLY	D	369	1	-	2/8/9/11	-
1	MLY	D	415	1	-	3/8/9/11	-
1	MLY	G	87	1	-	2/8/9/11	-
1	MLY	J	236	1	-	3/8/9/11	-
1	MLY	J	837	1	-	6/8/9/11	-
1	MLY	A	833	1	-	6/8/9/11	-
1	MLY	G	505	1	-	5/8/9/11	-
1	MLY	P	598	1	-	5/8/9/11	-
1	MLY	P	190	1	-	4/8/9/11	-
1	MLY	A	87	1	-	2/8/9/11	-
1	MLY	J	839	1	-	3/8/9/11	-
1	MLY	A	130	1	-	5/8/9/11	-
1	MLY	D	236	1	-	3/8/9/11	-
1	MLY	A	505	1	-	5/8/9/11	-
1	MLY	P	295	1	-	2/8/9/11	-
1	MLY	P	369	1	-	2/8/9/11	-
1	MLY	P	528	1	-	4/8/9/11	-
1	MLY	G	839	1	-	3/8/9/11	-
1	MLY	P	486	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	504	1	-	4/8/9/11	-
1	MLY	P	839	1	-	3/8/9/11	-
1	MLY	P	107	1	-	2/8/9/11	-
1	MLY	J	367	1	-	2/8/9/11	-
1	MLY	A	681	1	-	4/8/9/11	-
1	MLY	P	348	1	-	5/8/9/11	-
1	MLY	P	782	1	-	6/8/9/11	-
1	MLY	A	367	1	-	2/8/9/11	-
1	MLY	P	600	1	-	3/8/9/11	-
1	MLY	J	600	1	-	3/8/9/11	-
1	MLY	G	764	1	-	2/8/9/11	-
1	MLY	P	827	1	-	1/8/9/11	-
1	MLY	A	19	1	-	4/8/9/11	-
1	MLY	D	353	1	-	4/8/9/11	-
1	MLY	D	833	1	-	6/8/9/11	-
1	MLY	G	385	1	-	2/8/9/11	-
1	MLY	A	782	1	-	6/8/9/11	-
1	MLY	P	19	1	-	4/8/9/11	-
1	MLY	A	385	1	-	2/8/9/11	-
1	MLY	A	827	1	-	1/8/9/11	-
1	MLY	D	19	1	-	4/8/9/11	-
1	MLY	P	659	1	-	3/8/9/11	-
1	MLY	G	295	1	-	2/8/9/11	-
1	MLY	P	617	1	-	2/8/9/11	-
1	MLY	D	659	1	-	3/8/9/11	-
1	MLY	A	63	1	-	4/8/9/11	-
1	MLY	P	130	1	-	5/8/9/11	-
1	MLY	G	617	1	-	2/8/9/11	-
1	MLY	P	833	1	-	6/8/9/11	-
1	MLY	D	248	1	-	6/8/9/11	-
1	MLY	G	19	1	-	4/8/9/11	-
1	MLY	J	35	1	-	3/8/9/11	-
1	MLY	G	348	1	-	5/8/9/11	-
1	MLY	A	138	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	553	1	-	4/8/9/11	-
1	MLY	P	272	1	-	3/8/9/11	-
1	MLY	G	782	1	-	6/8/9/11	-
1	MLY	J	353	1	-	4/8/9/11	-
1	MLY	D	839	1	-	3/8/9/11	-
1	MLY	G	272	1	-	3/8/9/11	-
1	MLY	D	436	1	-	4/8/9/11	-
1	MLY	D	385	1	-	2/8/9/11	-
1	MLY	J	59	1	-	3/8/9/11	-
1	MLY	J	63	1	-	4/8/9/11	-
1	MLY	G	63	1	-	4/8/9/11	-
1	MLY	G	528	1	-	4/8/9/11	-

All (65) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	138	MLY	CB-CA	-3.35	1.48	1.53
1	G	138	MLY	CB-CA	-3.22	1.48	1.53
1	P	138	MLY	CB-CA	-3.18	1.48	1.53
1	A	138	MLY	CB-CA	-3.17	1.48	1.53
1	J	138	MLY	CB-CA	-3.16	1.48	1.53
1	P	87	MLY	CB-CA	-2.84	1.49	1.53
1	D	19	MLY	CB-CA	-2.81	1.49	1.53
1	J	19	MLY	CB-CA	-2.81	1.49	1.53
1	G	87	MLY	CB-CA	-2.80	1.49	1.53
1	P	19	MLY	CB-CA	-2.77	1.49	1.53
1	A	87	MLY	CB-CA	-2.72	1.49	1.53
1	J	87	MLY	CB-CA	-2.72	1.49	1.53
1	G	19	MLY	CB-CA	-2.70	1.49	1.53
1	D	436	MLY	CB-CA	-2.68	1.49	1.53
1	D	87	MLY	CB-CA	-2.66	1.49	1.53
1	A	19	MLY	CB-CA	-2.62	1.49	1.53
1	P	436	MLY	CB-CA	-2.62	1.49	1.53
1	G	436	MLY	CB-CA	-2.60	1.49	1.53
1	P	49	MLY	CB-CA	-2.56	1.49	1.53
1	J	436	MLY	CB-CA	-2.54	1.49	1.53
1	A	436	MLY	CB-CA	-2.54	1.49	1.53
1	J	49	MLY	CB-CA	-2.53	1.49	1.53
1	J	272	MLY	CB-CA	-2.49	1.49	1.53
1	G	49	MLY	CB-CA	-2.49	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	49	MLY	CB-CA	-2.43	1.49	1.53
1	P	272	MLY	CB-CA	-2.43	1.49	1.53
1	A	272	MLY	CB-CA	-2.41	1.49	1.53
1	A	49	MLY	CB-CA	-2.39	1.49	1.53
1	D	272	MLY	CB-CA	-2.37	1.50	1.53
1	G	272	MLY	CB-CA	-2.36	1.50	1.53
1	P	190	MLY	CB-CA	-2.31	1.50	1.53
1	A	236	MLY	CA-N	-2.29	1.41	1.48
1	D	236	MLY	CA-N	-2.28	1.41	1.48
1	J	190	MLY	CB-CA	-2.28	1.50	1.53
1	J	236	MLY	CA-N	-2.28	1.41	1.48
1	J	385	MLY	CB-CA	-2.27	1.50	1.53
1	P	236	MLY	CA-N	-2.27	1.41	1.48
1	A	190	MLY	CB-CA	-2.24	1.50	1.53
1	G	236	MLY	CA-N	-2.23	1.41	1.48
1	J	833	MLY	CB-CA	-2.23	1.50	1.53
1	P	385	MLY	CB-CA	-2.21	1.50	1.53
1	G	833	MLY	CA-N	-2.20	1.41	1.48
1	G	190	MLY	CB-CA	-2.20	1.50	1.53
1	D	833	MLY	CA-N	-2.17	1.42	1.48
1	P	833	MLY	CB-CA	-2.17	1.50	1.53
1	A	385	MLY	CB-CA	-2.15	1.50	1.53
1	A	190	MLY	CA-N	-2.13	1.42	1.48
1	D	385	MLY	CB-CA	-2.13	1.50	1.53
1	D	190	MLY	CB-CA	-2.12	1.50	1.53
1	D	190	MLY	CA-N	-2.11	1.42	1.48
1	G	385	MLY	CB-CA	-2.10	1.50	1.53
1	P	833	MLY	CA-N	-2.08	1.42	1.48
1	J	190	MLY	CA-N	-2.08	1.42	1.48
1	A	833	MLY	CA-N	-2.07	1.42	1.48
1	G	190	MLY	CA-N	-2.07	1.42	1.48
1	A	659	MLY	CA-N	-2.06	1.42	1.48
1	P	190	MLY	CA-N	-2.06	1.42	1.48
1	D	659	MLY	CA-N	-2.05	1.42	1.48
1	G	659	MLY	CA-N	-2.05	1.42	1.48
1	J	659	MLY	CA-N	-2.04	1.42	1.48
1	A	598	MLY	CB-CA	-2.01	1.50	1.53
1	D	598	MLY	CB-CA	-2.01	1.50	1.53
1	J	833	MLY	CA-N	-2.01	1.42	1.48
1	A	782	MLY	CA-N	-2.01	1.42	1.48
1	J	505	MLY	CB-CA	-2.01	1.50	1.53

There are no bond angle outliers.

There are no chirality outliers.

All (806) torsion outliers are listed below:

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

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

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

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

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Mol	Chain	Res	Type	Atoms
1	J	296	MLY	CD-CE-NZ-CH2
1	J	367	MLY	CD-CE-NZ-CH2
1	J	431	MLY	CD-CE-NZ-CH2
1	J	600	MLY	CD-CE-NZ-CH2
1	J	764	MLY	CD-CE-NZ-CH1
1	J	764	MLY	CD-CE-NZ-CH2
1	J	782	MLY	CD-CE-NZ-CH2
1	J	833	MLY	CD-CE-NZ-CH1
1	J	833	MLY	CD-CE-NZ-CH2
1	J	837	MLY	CD-CE-NZ-CH2
1	P	55	MLY	CD-CE-NZ-CH2
1	P	84	MLY	CD-CE-NZ-CH1
1	P	248	MLY	CD-CE-NZ-CH1
1	P	296	MLY	CD-CE-NZ-CH1
1	P	296	MLY	CD-CE-NZ-CH2
1	P	367	MLY	CD-CE-NZ-CH2
1	P	431	MLY	CD-CE-NZ-CH2
1	P	600	MLY	CD-CE-NZ-CH2
1	P	764	MLY	CD-CE-NZ-CH1
1	P	764	MLY	CD-CE-NZ-CH2
1	P	782	MLY	CD-CE-NZ-CH2
1	P	833	MLY	CD-CE-NZ-CH1
1	P	833	MLY	CD-CE-NZ-CH2
1	P	837	MLY	CD-CE-NZ-CH2
1	A	295	MLY	CG-CD-CE-NZ
1	D	295	MLY	CG-CD-CE-NZ
1	G	295	MLY	CG-CD-CE-NZ
1	J	295	MLY	CG-CD-CE-NZ
1	P	295	MLY	CG-CD-CE-NZ
1	A	659	MLY	CG-CD-CE-NZ
1	D	659	MLY	CG-CD-CE-NZ
1	G	659	MLY	CG-CD-CE-NZ
1	J	659	MLY	CG-CD-CE-NZ
1	P	659	MLY	CG-CD-CE-NZ
1	A	35	MLY	CG-CD-CE-NZ
1	D	35	MLY	CG-CD-CE-NZ
1	G	35	MLY	CG-CD-CE-NZ
1	J	35	MLY	CG-CD-CE-NZ
1	P	35	MLY	CG-CD-CE-NZ
1	A	55	MLY	CD-CE-NZ-CH2
1	A	59	MLY	CD-CE-NZ-CH1
1	A	59	MLY	CD-CE-NZ-CH2

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

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

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

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

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Mol	Chain	Res	Type	Atoms
1	G	138	MLY	CG-CD-CE-NZ
1	J	138	MLY	CG-CD-CE-NZ
1	P	138	MLY	CG-CD-CE-NZ
1	A	84	MLY	CG-CD-CE-NZ
1	A	130	MLY	CG-CD-CE-NZ
1	D	130	MLY	CG-CD-CE-NZ
1	G	84	MLY	CG-CD-CE-NZ
1	G	130	MLY	CG-CD-CE-NZ
1	J	84	MLY	CG-CD-CE-NZ
1	J	130	MLY	CG-CD-CE-NZ
1	P	84	MLY	CG-CD-CE-NZ
1	P	130	MLY	CG-CD-CE-NZ
1	A	369	MLY	CD-CE-NZ-CH2
1	A	504	MLY	CD-CE-NZ-CH1
1	A	504	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH2
1	D	272	MLY	CD-CE-NZ-CH2
1	D	369	MLY	CD-CE-NZ-CH2
1	D	504	MLY	CD-CE-NZ-CH1
1	D	504	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH2
1	G	272	MLY	CD-CE-NZ-CH2
1	G	369	MLY	CD-CE-NZ-CH2
1	G	504	MLY	CD-CE-NZ-CH1
1	G	504	MLY	CD-CE-NZ-CH2
1	G	768	MLY	CD-CE-NZ-CH2
1	J	369	MLY	CD-CE-NZ-CH2
1	J	504	MLY	CD-CE-NZ-CH1
1	J	504	MLY	CD-CE-NZ-CH2
1	J	768	MLY	CD-CE-NZ-CH2
1	P	369	MLY	CD-CE-NZ-CH2
1	P	504	MLY	CD-CE-NZ-CH1
1	P	504	MLY	CD-CE-NZ-CH2
1	P	768	MLY	CD-CE-NZ-CH2
1	D	84	MLY	CG-CD-CE-NZ
1	A	681	MLY	CG-CD-CE-NZ
1	D	681	MLY	CG-CD-CE-NZ
1	G	504	MLY	CG-CD-CE-NZ
1	G	681	MLY	CG-CD-CE-NZ
1	J	681	MLY	CG-CD-CE-NZ
1	P	504	MLY	CG-CD-CE-NZ
1	P	681	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	A	504	MLY	CG-CD-CE-NZ
1	J	504	MLY	CG-CD-CE-NZ
1	D	504	MLY	CG-CD-CE-NZ
1	A	598	MLY	CG-CD-CE-NZ
1	G	598	MLY	CG-CD-CE-NZ
1	J	598	MLY	CG-CD-CE-NZ
1	P	598	MLY	CG-CD-CE-NZ
1	D	598	MLY	CG-CD-CE-NZ
1	A	63	MLY	CD-CE-NZ-CH2
1	A	87	MLY	CD-CE-NZ-CH1
1	A	272	MLY	CD-CE-NZ-CH2
1	D	63	MLY	CD-CE-NZ-CH2
1	D	87	MLY	CD-CE-NZ-CH1
1	G	63	MLY	CD-CE-NZ-CH2
1	J	63	MLY	CD-CE-NZ-CH2
1	J	272	MLY	CD-CE-NZ-CH2
1	P	63	MLY	CD-CE-NZ-CH2
1	P	87	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH2
1	A	553	MLY	CD-CE-NZ-CH1
1	D	55	MLY	CD-CE-NZ-CH1
1	D	415	MLY	CD-CE-NZ-CH1
1	D	415	MLY	CD-CE-NZ-CH2
1	D	553	MLY	CD-CE-NZ-CH1
1	G	87	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CD-CE-NZ-CH2
1	G	553	MLY	CD-CE-NZ-CH1
1	J	55	MLY	CD-CE-NZ-CH1
1	J	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	P	55	MLY	CD-CE-NZ-CH1
1	P	272	MLY	CD-CE-NZ-CH2
1	P	415	MLY	CD-CE-NZ-CH1
1	P	415	MLY	CD-CE-NZ-CH2
1	P	553	MLY	CD-CE-NZ-CH1
1	A	295	MLY	CA-CB-CG-CD
1	D	295	MLY	CA-CB-CG-CD
1	G	295	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	J	295	MLY	CA-CB-CG-CD
1	P	295	MLY	CA-CB-CG-CD
1	A	551	MLY	CG-CD-CE-NZ
1	D	551	MLY	CG-CD-CE-NZ
1	G	551	MLY	CG-CD-CE-NZ
1	J	551	MLY	CG-CD-CE-NZ
1	P	551	MLY	CG-CD-CE-NZ
1	A	19	MLY	CD-CE-NZ-CH2
1	A	55	MLY	CD-CE-NZ-CH1
1	D	19	MLY	CD-CE-NZ-CH2
1	D	107	MLY	CD-CE-NZ-CH1
1	G	19	MLY	CD-CE-NZ-CH2
1	G	55	MLY	CD-CE-NZ-CH1
1	J	19	MLY	CD-CE-NZ-CH2
1	P	19	MLY	CD-CE-NZ-CH2
1	P	107	MLY	CD-CE-NZ-CH1
1	A	504	MLY	CA-CB-CG-CD
1	A	768	MLY	CA-CB-CG-CD
1	D	504	MLY	CA-CB-CG-CD
1	D	768	MLY	CA-CB-CG-CD
1	G	504	MLY	CA-CB-CG-CD
1	G	768	MLY	CA-CB-CG-CD
1	J	504	MLY	CA-CB-CG-CD
1	J	768	MLY	CA-CB-CG-CD
1	P	504	MLY	CA-CB-CG-CD
1	P	768	MLY	CA-CB-CG-CD
1	A	505	MLY	CE-CD-CG-CB
1	D	49	MLY	CE-CD-CG-CB
1	G	49	MLY	CE-CD-CG-CB
1	J	49	MLY	CE-CD-CG-CB
1	A	49	MLY	CE-CD-CG-CB
1	D	272	MLY	CE-CD-CG-CB
1	D	505	MLY	CE-CD-CG-CB
1	G	505	MLY	CE-CD-CG-CB
1	J	505	MLY	CE-CD-CG-CB
1	P	49	MLY	CE-CD-CG-CB
1	P	505	MLY	CE-CD-CG-CB
1	A	272	MLY	CE-CD-CG-CB
1	G	272	MLY	CE-CD-CG-CB
1	G	296	MLY	CE-CD-CG-CB
1	J	272	MLY	CE-CD-CG-CB
1	J	296	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	P	30	MLY	CE-CD-CG-CB
1	P	272	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	J	30	MLY	CE-CD-CG-CB
1	P	296	MLY	CE-CD-CG-CB
1	P	353	MLY	CE-CD-CG-CB
1	A	30	MLY	CE-CD-CG-CB
1	G	30	MLY	CE-CD-CG-CB
1	J	353	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH1
1	G	107	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH1
1	J	839	MLY	CD-CE-NZ-CH1
1	P	839	MLY	CD-CE-NZ-CH1
1	A	190	MLY	CE-CD-CG-CB
1	D	190	MLY	CE-CD-CG-CB
1	G	190	MLY	CE-CD-CG-CB
1	J	190	MLY	CE-CD-CG-CB
1	P	190	MLY	CE-CD-CG-CB
1	A	353	MLY	CE-CD-CG-CB
1	G	353	MLY	CE-CD-CG-CB
1	D	353	MLY	CE-CD-CG-CB
1	A	681	MLY	CE-CD-CG-CB
1	D	681	MLY	CE-CD-CG-CB
1	G	681	MLY	CE-CD-CG-CB
1	P	681	MLY	CE-CD-CG-CB
1	J	681	MLY	CE-CD-CG-CB
1	J	190	MLY	CG-CD-CE-NZ
1	P	190	MLY	CG-CD-CE-NZ
1	D	768	MLY	CE-CD-CG-CB
1	D	190	MLY	CG-CD-CE-NZ
1	G	190	MLY	CG-CD-CE-NZ
1	A	190	MLY	CG-CD-CE-NZ
1	G	768	MLY	CE-CD-CG-CB
1	J	768	MLY	CE-CD-CG-CB
1	P	768	MLY	CE-CD-CG-CB
1	A	768	MLY	CE-CD-CG-CB
1	A	369	MLY	CE-CD-CG-CB
1	G	369	MLY	CE-CD-CG-CB
1	A	782	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	D	369	MLY	CE-CD-CG-CB
1	D	782	MLY	CE-CD-CG-CB
1	J	369	MLY	CE-CD-CG-CB
1	J	782	MLY	CE-CD-CG-CB
1	P	782	MLY	CE-CD-CG-CB
1	A	659	MLY	CD-CE-NZ-CH1
1	A	839	MLY	CD-CE-NZ-CH1
1	D	659	MLY	CD-CE-NZ-CH1
1	D	839	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH1
1	G	839	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH2
1	J	659	MLY	CD-CE-NZ-CH1
1	P	107	MLY	CD-CE-NZ-CH2
1	P	659	MLY	CD-CE-NZ-CH1
1	P	369	MLY	CE-CD-CG-CB
1	G	782	MLY	CE-CD-CG-CB
1	A	415	MLY	CA-CB-CG-CD
1	G	415	MLY	CA-CB-CG-CD
1	D	415	MLY	CA-CB-CG-CD
1	J	415	MLY	CA-CB-CG-CD
1	P	415	MLY	CA-CB-CG-CD
1	A	107	MLY	CD-CE-NZ-CH2
1	A	236	MLY	CD-CE-NZ-CH1
1	D	107	MLY	CD-CE-NZ-CH2
1	D	236	MLY	CD-CE-NZ-CH1
1	G	107	MLY	CD-CE-NZ-CH2
1	G	236	MLY	CD-CE-NZ-CH1
1	J	236	MLY	CD-CE-NZ-CH1
1	P	236	MLY	CD-CE-NZ-CH1
1	P	833	MLY	CE-CD-CG-CB
1	D	833	MLY	CE-CD-CG-CB
1	J	55	MLY	CG-CD-CE-NZ
1	A	55	MLY	CG-CD-CE-NZ
1	D	55	MLY	CG-CD-CE-NZ
1	G	55	MLY	CG-CD-CE-NZ
1	P	55	MLY	CG-CD-CE-NZ
1	A	833	MLY	CE-CD-CG-CB
1	G	833	MLY	CE-CD-CG-CB
1	J	833	MLY	CE-CD-CG-CB
1	G	617	MLY	CE-CD-CG-CB
1	A	436	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	D	436	MLY	CA-CB-CG-CD
1	G	436	MLY	CA-CB-CG-CD
1	J	436	MLY	CA-CB-CG-CD
1	P	436	MLY	CA-CB-CG-CD
1	D	617	MLY	CE-CD-CG-CB
1	J	617	MLY	CE-CD-CG-CB
1	P	617	MLY	CE-CD-CG-CB
1	A	617	MLY	CE-CD-CG-CB
1	D	551	MLY	CE-CD-CG-CB
1	A	551	MLY	CE-CD-CG-CB
1	P	551	MLY	CE-CD-CG-CB
1	G	551	MLY	CE-CD-CG-CB
1	J	551	MLY	CE-CD-CG-CB
1	G	59	MLY	CE-CD-CG-CB
1	J	553	MLY	CE-CD-CG-CB
1	A	55	MLY	CE-CD-CG-CB
1	A	59	MLY	CE-CD-CG-CB
1	A	553	MLY	CE-CD-CG-CB
1	D	55	MLY	CE-CD-CG-CB
1	D	59	MLY	CE-CD-CG-CB
1	G	553	MLY	CE-CD-CG-CB
1	P	553	MLY	CE-CD-CG-CB
1	D	553	MLY	CE-CD-CG-CB
1	G	55	MLY	CE-CD-CG-CB
1	J	55	MLY	CE-CD-CG-CB
1	J	59	MLY	CE-CD-CG-CB
1	P	55	MLY	CE-CD-CG-CB
1	P	59	MLY	CE-CD-CG-CB
1	D	528	MLY	CG-CD-CE-NZ
1	G	528	MLY	CG-CD-CE-NZ
1	J	528	MLY	CG-CD-CE-NZ
1	P	528	MLY	CG-CD-CE-NZ
1	A	528	MLY	CG-CD-CE-NZ
1	G	248	MLY	CG-CD-CE-NZ
1	A	248	MLY	CG-CD-CE-NZ
1	J	248	MLY	CG-CD-CE-NZ
1	P	248	MLY	CG-CD-CE-NZ
1	P	431	MLY	CE-CD-CG-CB
1	D	248	MLY	CG-CD-CE-NZ
1	A	431	MLY	CE-CD-CG-CB
1	D	431	MLY	CE-CD-CG-CB
1	J	431	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	G	248	MLY	CE-CD-CG-CB
1	G	431	MLY	CE-CD-CG-CB
1	A	248	MLY	CE-CD-CG-CB
1	P	248	MLY	CE-CD-CG-CB
1	D	248	MLY	CE-CD-CG-CB
1	J	248	MLY	CE-CD-CG-CB
1	D	35	MLY	CE-CD-CG-CB
1	A	35	MLY	CE-CD-CG-CB
1	G	35	MLY	CE-CD-CG-CB
1	J	35	MLY	CE-CD-CG-CB
1	P	35	MLY	CE-CD-CG-CB
1	A	431	MLY	CA-CB-CG-CD
1	D	431	MLY	CA-CB-CG-CD
1	G	431	MLY	CA-CB-CG-CD
1	J	431	MLY	CA-CB-CG-CD
1	P	431	MLY	CA-CB-CG-CD
1	A	837	MLY	CA-CB-CG-CD
1	D	837	MLY	CA-CB-CG-CD
1	G	837	MLY	CA-CB-CG-CD
1	J	837	MLY	CA-CB-CG-CD
1	P	837	MLY	CA-CB-CG-CD
1	D	600	MLY	CE-CD-CG-CB
1	A	436	MLY	CE-CD-CG-CB
1	A	598	MLY	CE-CD-CG-CB
1	A	600	MLY	CE-CD-CG-CB
1	D	436	MLY	CE-CD-CG-CB
1	D	598	MLY	CE-CD-CG-CB
1	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	598	MLY	CE-CD-CG-CB
1	J	600	MLY	CE-CD-CG-CB
1	P	436	MLY	CE-CD-CG-CB
1	P	598	MLY	CE-CD-CG-CB
1	P	600	MLY	CE-CD-CG-CB
1	D	236	MLY	CA-CB-CG-CD
1	J	236	MLY	CA-CB-CG-CD
1	J	833	MLY	CA-CB-CG-CD
1	P	236	MLY	CA-CB-CG-CD
1	P	833	MLY	CA-CB-CG-CD
1	A	486	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	G	486	MLY	CE-CD-CG-CB
1	D	486	MLY	CE-CD-CG-CB
1	P	486	MLY	CE-CD-CG-CB
1	J	486	MLY	CE-CD-CG-CB
1	A	236	MLY	CA-CB-CG-CD
1	A	833	MLY	CA-CB-CG-CD
1	D	833	MLY	CA-CB-CG-CD
1	G	236	MLY	CA-CB-CG-CD
1	G	833	MLY	CA-CB-CG-CD
1	G	839	MLY	CE-CD-CG-CB
1	J	839	MLY	CE-CD-CG-CB
1	A	839	MLY	CE-CD-CG-CB
1	P	839	MLY	CE-CD-CG-CB
1	D	839	MLY	CE-CD-CG-CB
1	A	138	MLY	CA-CB-CG-CD
1	A	296	MLY	CA-CB-CG-CD
1	D	138	MLY	CA-CB-CG-CD
1	G	138	MLY	CA-CB-CG-CD
1	J	296	MLY	CA-CB-CG-CD
1	P	138	MLY	CA-CB-CG-CD
1	P	296	MLY	CA-CB-CG-CD
1	A	63	MLY	C-CA-CB-CG
1	A	353	MLY	C-CA-CB-CG
1	A	827	MLY	C-CA-CB-CG
1	A	833	MLY	C-CA-CB-CG
1	D	63	MLY	C-CA-CB-CG
1	D	353	MLY	C-CA-CB-CG
1	D	827	MLY	C-CA-CB-CG
1	D	833	MLY	C-CA-CB-CG
1	G	63	MLY	C-CA-CB-CG
1	G	353	MLY	C-CA-CB-CG
1	G	827	MLY	C-CA-CB-CG
1	G	833	MLY	C-CA-CB-CG
1	J	63	MLY	C-CA-CB-CG
1	J	353	MLY	C-CA-CB-CG
1	J	827	MLY	C-CA-CB-CG
1	J	833	MLY	C-CA-CB-CG
1	P	63	MLY	C-CA-CB-CG
1	P	353	MLY	C-CA-CB-CG
1	P	827	MLY	C-CA-CB-CG
1	P	833	MLY	C-CA-CB-CG
1	D	296	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	J	138	MLY	CA-CB-CG-CD
1	G	296	MLY	CA-CB-CG-CD
1	A	35	MLY	N-CA-CB-CG
1	A	63	MLY	N-CA-CB-CG
1	A	130	MLY	N-CA-CB-CG
1	A	436	MLY	N-CA-CB-CG
1	A	681	MLY	N-CA-CB-CG
1	A	833	MLY	N-CA-CB-CG
1	A	837	MLY	N-CA-CB-CG
1	D	35	MLY	N-CA-CB-CG
1	D	63	MLY	N-CA-CB-CG
1	D	130	MLY	N-CA-CB-CG
1	D	348	MLY	N-CA-CB-CG
1	D	436	MLY	N-CA-CB-CG
1	D	681	MLY	N-CA-CB-CG
1	D	833	MLY	N-CA-CB-CG
1	D	837	MLY	N-CA-CB-CG
1	G	35	MLY	N-CA-CB-CG
1	G	63	MLY	N-CA-CB-CG
1	G	130	MLY	N-CA-CB-CG
1	G	348	MLY	N-CA-CB-CG
1	G	436	MLY	N-CA-CB-CG
1	G	681	MLY	N-CA-CB-CG
1	G	833	MLY	N-CA-CB-CG
1	G	837	MLY	N-CA-CB-CG
1	J	35	MLY	N-CA-CB-CG
1	J	63	MLY	N-CA-CB-CG
1	J	130	MLY	N-CA-CB-CG
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	P	35	MLY	N-CA-CB-CG
1	P	63	MLY	N-CA-CB-CG
1	P	130	MLY	N-CA-CB-CG
1	P	436	MLY	N-CA-CB-CG
1	P	681	MLY	N-CA-CB-CG
1	P	833	MLY	N-CA-CB-CG
1	P	837	MLY	N-CA-CB-CG
1	A	19	MLY	CA-CB-CG-CD
1	D	19	MLY	CA-CB-CG-CD
1	G	19	MLY	CA-CB-CG-CD

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

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

There are no ring outliers.

154 monomers are involved in 630 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	553	MLY	18	0
1	A	598	MLY	1	0
1	A	55	MLY	1	0
1	P	49	MLY	4	0
1	J	415	MLY	1	0
1	A	600	MLY	1	0
1	P	138	MLY	2	0
1	D	63	MLY	3	0
1	D	837	MLY	1	0
1	G	415	MLY	1	0
1	J	138	MLY	2	0
1	G	296	MLY	2	0
1	J	84	MLY	18	0
1	G	553	MLY	27	0
1	G	598	MLY	1	0
1	G	55	MLY	1	0
1	G	84	MLY	33	0
1	P	504	MLY	1	0
1	J	504	MLY	1	0
1	A	768	MLY	6	0
1	G	248	MLY	2	0
1	P	59	MLY	2	0
1	D	138	MLY	2	0
1	A	30	MLY	1	0
1	D	782	MLY	43	0
1	P	837	MLY	1	0
1	A	248	MLY	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	528	MLY	2	0
1	A	659	MLY	2	0
1	A	295	MLY	6	0
1	A	369	MLY	1	0
1	G	600	MLY	1	0
1	G	486	MLY	3	0
1	D	295	MLY	6	0
1	P	55	MLY	1	0
1	A	190	MLY	2	0
1	G	30	MLY	1	0
1	J	55	MLY	1	0
1	D	486	MLY	3	0
1	P	296	MLY	3	0
1	A	486	MLY	3	0
1	D	190	MLY	2	0
1	G	659	MLY	2	0
1	G	369	MLY	1	0
1	J	764	MLY	3	0
1	D	348	MLY	6	0
1	J	190	MLY	2	0
1	G	190	MLY	2	0
1	J	553	MLY	11	0
1	J	295	MLY	6	0
1	D	87	MLY	3	0
1	G	138	MLY	2	0
1	J	486	MLY	3	0
1	D	528	MLY	3	0
1	D	30	MLY	1	0
1	D	617	MLY	1	0
1	J	107	MLY	3	0
1	A	764	MLY	11	0
1	J	768	MLY	5	0
1	G	107	MLY	3	0
1	G	59	MLY	3	0
1	G	768	MLY	2	0
1	P	436	MLY	2	0
1	A	415	MLY	1	0
1	P	30	MLY	1	0
1	P	63	MLY	4	0
1	A	504	MLY	1	0
1	D	296	MLY	3	0
1	D	551	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	J	87	MLY	3	0
1	P	87	MLY	3	0
1	P	505	MLY	8	0
1	P	84	MLY	30	0
1	A	837	MLY	12	0
1	D	59	MLY	2	0
1	J	49	MLY	3	0
1	P	764	MLY	1	0
1	A	49	MLY	3	0
1	A	617	MLY	1	0
1	G	837	MLY	1	0
1	P	248	MLY	2	0
1	D	49	MLY	4	0
1	J	248	MLY	2	0
1	J	528	MLY	3	0
1	A	272	MLY	1	0
1	D	272	MLY	1	0
1	G	49	MLY	3	0
1	J	30	MLY	1	0
1	A	59	MLY	2	0
1	A	348	MLY	5	0
1	G	436	MLY	2	0
1	J	617	MLY	1	0
1	J	505	MLY	10	0
1	A	107	MLY	3	0
1	J	348	MLY	5	0
1	J	659	MLY	2	0
1	A	296	MLY	2	0
1	D	107	MLY	3	0
1	P	415	MLY	1	0
1	J	272	MLY	1	0
1	D	553	MLY	16	0
1	D	55	MLY	1	0
1	D	598	MLY	1	0
1	D	600	MLY	1	0
1	J	436	MLY	2	0
1	D	764	MLY	8	0
1	A	551	MLY	2	0
1	J	296	MLY	3	0
1	J	598	MLY	1	0
1	J	782	MLY	1	0
1	A	839	MLY	8	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	436	MLY	2	0
1	D	415	MLY	1	0
1	G	87	MLY	2	0
1	J	837	MLY	1	0
1	A	833	MLY	1	0
1	G	505	MLY	16	0
1	P	598	MLY	1	0
1	P	190	MLY	2	0
1	A	87	MLY	3	0
1	J	839	MLY	9	0
1	A	505	MLY	25	0
1	P	295	MLY	6	0
1	P	528	MLY	2	0
1	G	839	MLY	4	0
1	P	486	MLY	3	0
1	D	504	MLY	1	0
1	P	839	MLY	8	0
1	P	107	MLY	3	0
1	P	348	MLY	5	0
1	P	782	MLY	1	0
1	P	600	MLY	1	0
1	J	600	MLY	1	0
1	G	764	MLY	20	0
1	A	782	MLY	7	0
1	P	659	MLY	2	0
1	G	295	MLY	6	0
1	P	617	MLY	1	0
1	D	659	MLY	2	0
1	A	63	MLY	4	0
1	G	617	MLY	1	0
1	D	248	MLY	2	0
1	G	348	MLY	4	0
1	A	138	MLY	2	0
1	P	553	MLY	2	0
1	P	272	MLY	1	0
1	G	782	MLY	1	0
1	D	839	MLY	4	0
1	G	272	MLY	1	0
1	D	436	MLY	2	0
1	J	59	MLY	3	0
1	J	63	MLY	3	0
1	G	63	MLY	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	528	MLY	3	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	P	5
1	D	4
1	A	4
1	J	3
1	G	3
3	C	1
3	F	1
3	I	1
3	L	1
3	R	1
2	B	1
2	E	1
2	H	1
2	K	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	5.57

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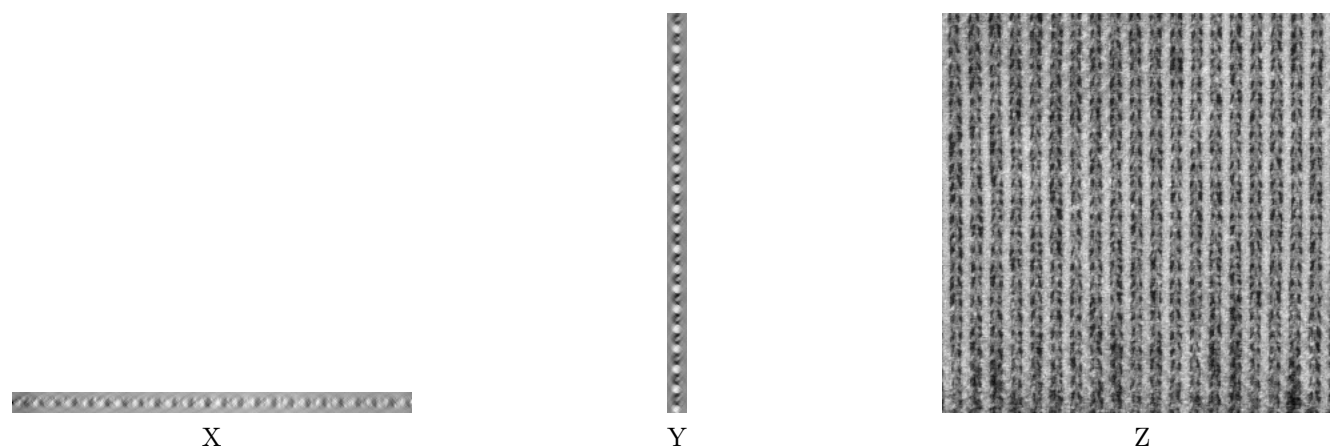
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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	769:ALA	C	770:GLY	N	4.97
1	G	769:ALA	C	770:GLY	N	4.52
1	P	786:ILE	C	787:ILE	N	4.06
1	D	709:LYS	C	710:GLY	N	3.41
1	A	709:LYS	C	710:GLY	N	2.80
1	C	4:LYS	C	5:ALA	N	2.61
1	F	4:LYS	C	5:ALA	N	2.61
1	I	4:LYS	C	5:ALA	N	2.61
1	L	4:LYS	C	5:ALA	N	2.61
1	R	4:LYS	C	5:ALA	N	2.61
1	A	769:ALA	C	770:GLY	N	2.46
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	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	J	637:LYS	C	638:GLY	N	1.06
1	D	637:LYS	C	638:GLY	N	1.05
1	P	637:LYS	C	638:GLY	N	1.05
1	D	649:VAL	C	650:SER	N	1.03
1	J	649:VAL	C	650:SER	N	1.03
1	P	649:VAL	C	650:SER	N	1.03
1	A	649:VAL	C	650:SER	N	1.02
1	G	649:VAL	C	650:SER	N	1.02
1	P	806:MET	C	807:VAL	N	0.93
1	P	769:ALA	C	770:GLY	N	0.88

6 Tomogram visualisation [i](#)

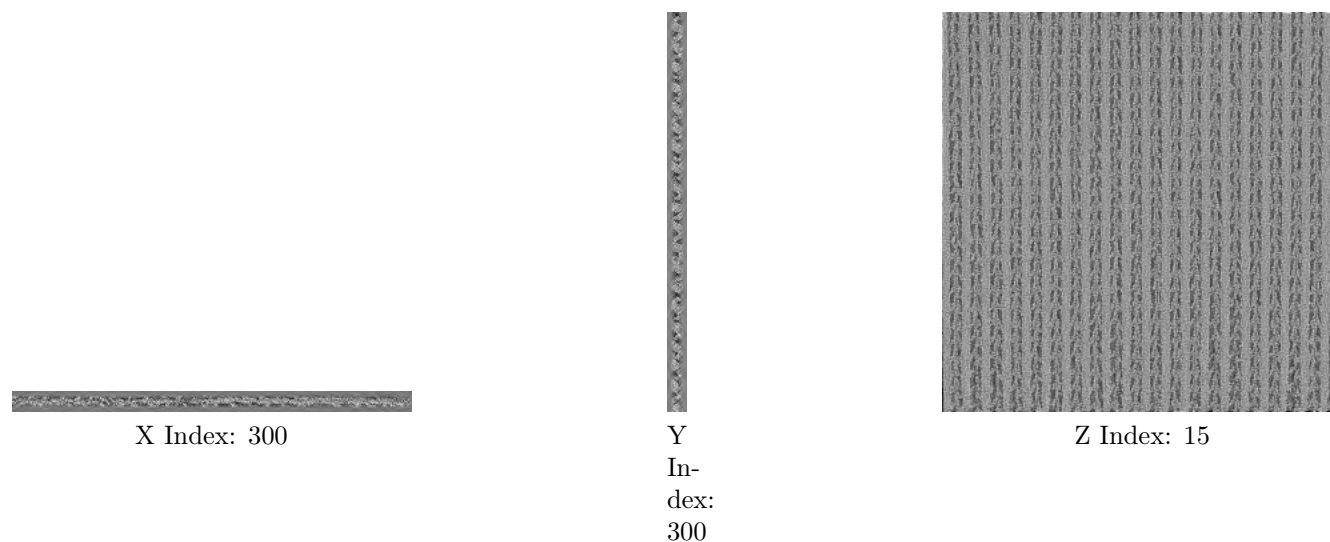
This section contains visualisations of the EMDB entry EMD-1001. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

6.1 Orthogonal projections [i](#)



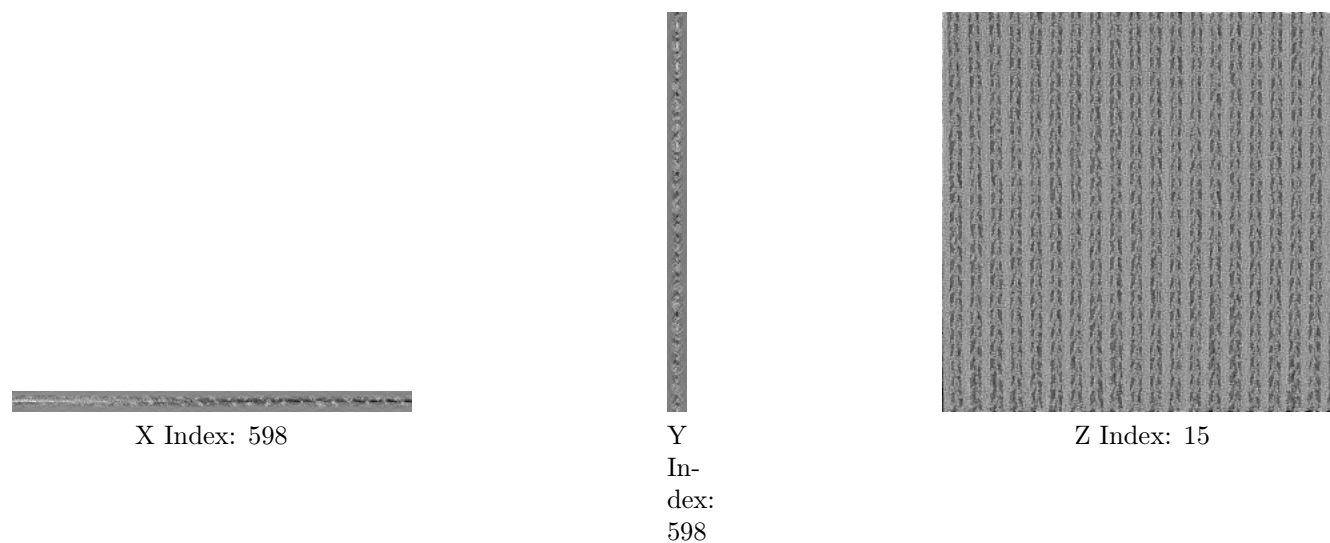
The images above show the tomogram projected in three orthogonal directions.

6.2 Central slices [i](#)



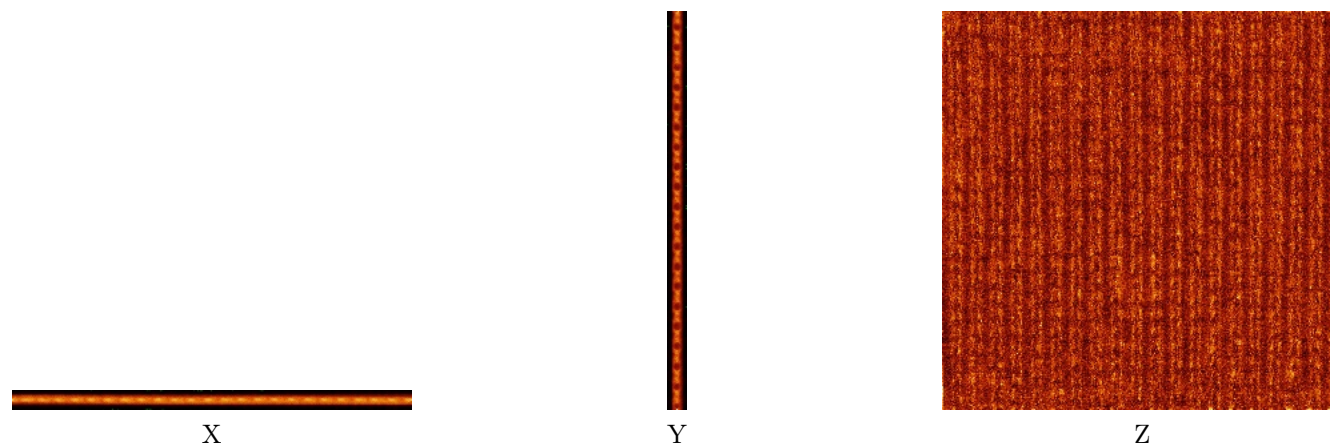
The images above show central slices of the tomogram in three orthogonal directions.

6.3 Largest variance slices [i](#)



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

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



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

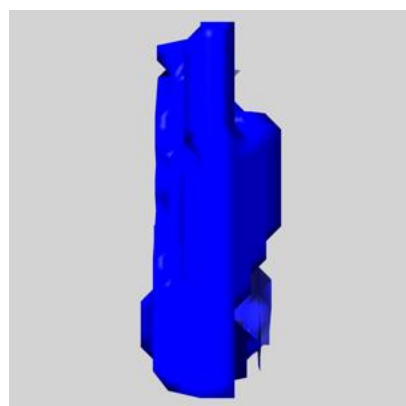
6.5 Mask visualisation [i](#)

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

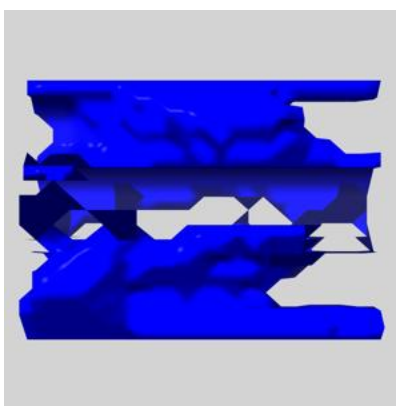
A mask typically either:

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

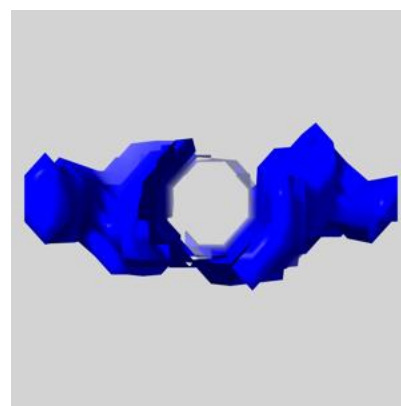
6.5.1 emd_1001_msk_25.map [i](#)



X

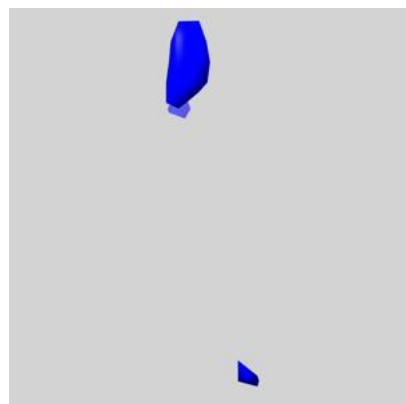


Y

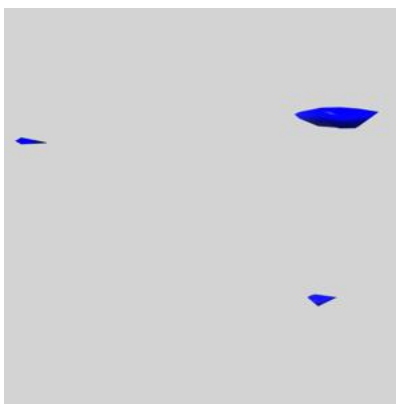


Z

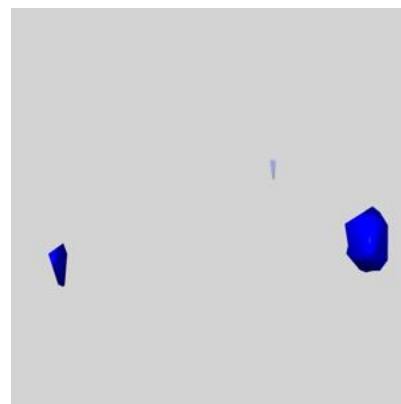
6.5.2 emd_1001_msk_24.map [i](#)



X

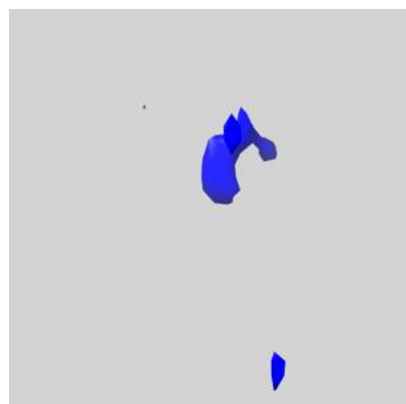


Y

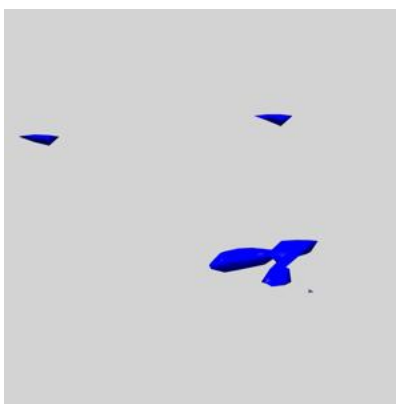


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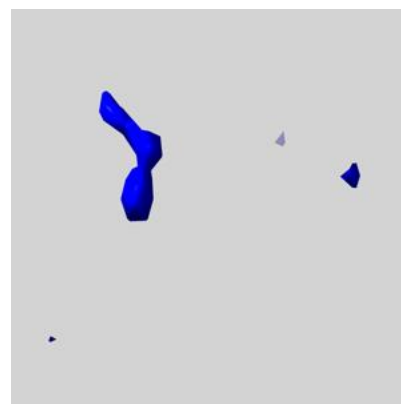
6.5.3 emd_1001_msk_23.map [i](#)



X

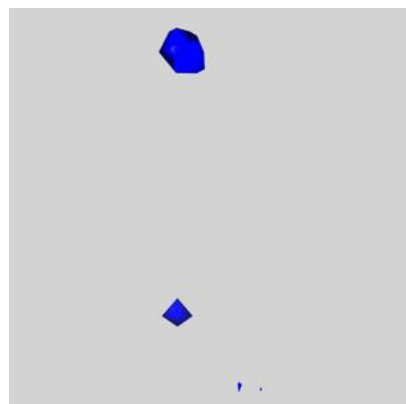


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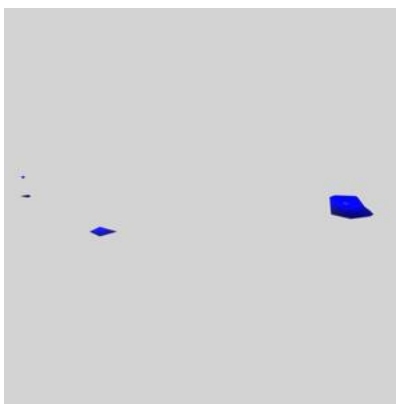


Z

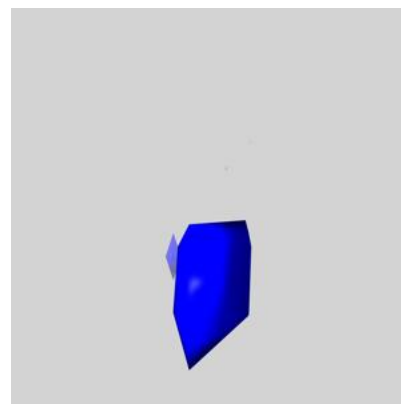
6.5.4 emd_1001_msk_22.map [i](#)



X

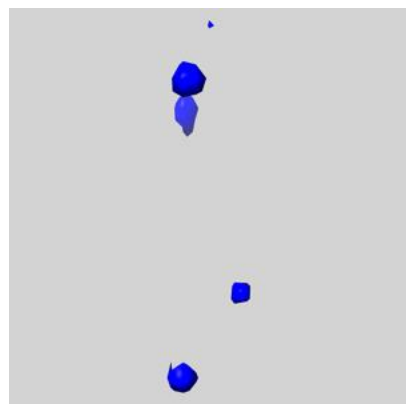


Y

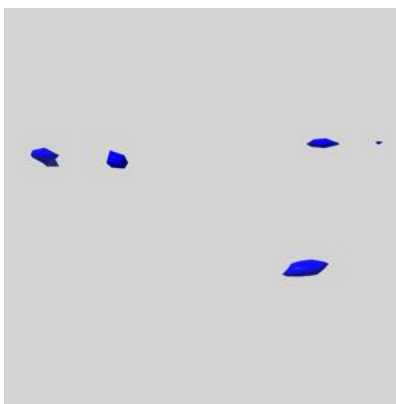


Z

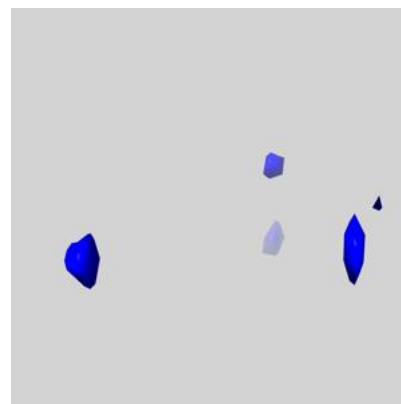
6.5.5 emd_1001_msk_21.map [i](#)



X

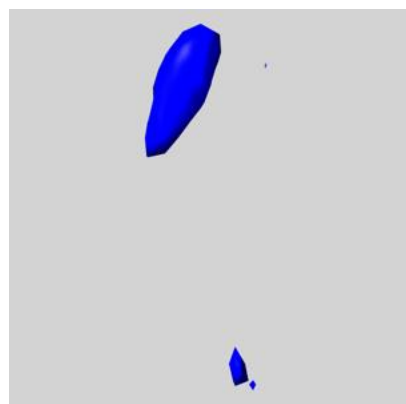


Y

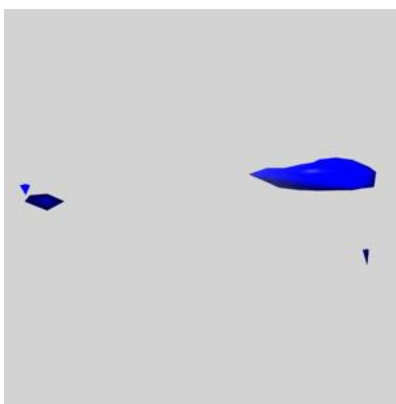


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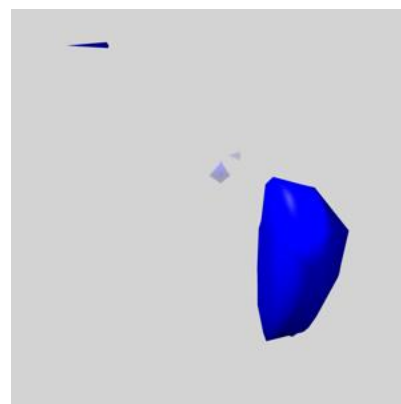
6.5.6 emd_1001_msk_20.map [i](#)



X

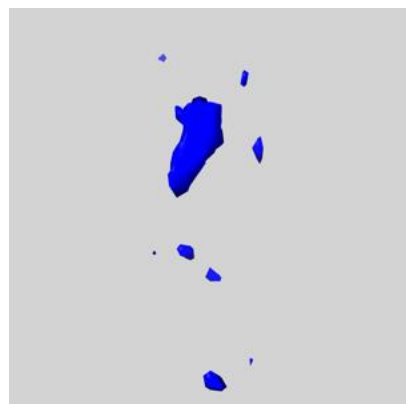


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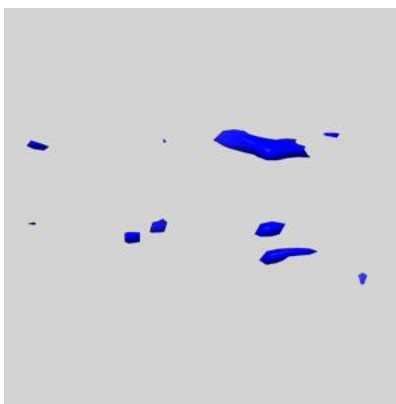


Z

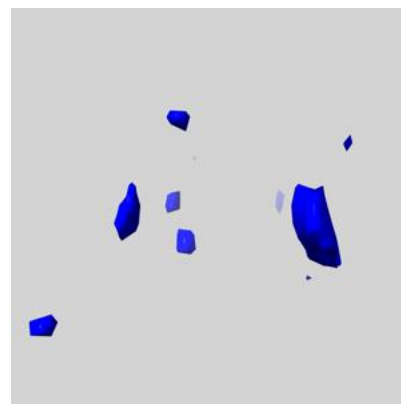
6.5.7 emd_1001_msk_19.map [i](#)



X

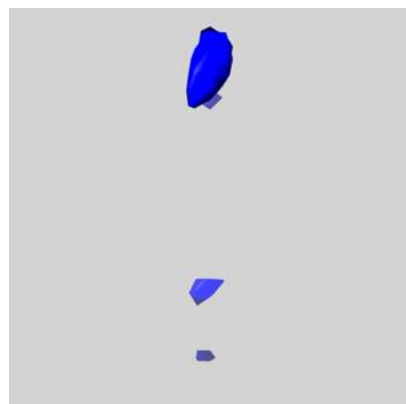


Y

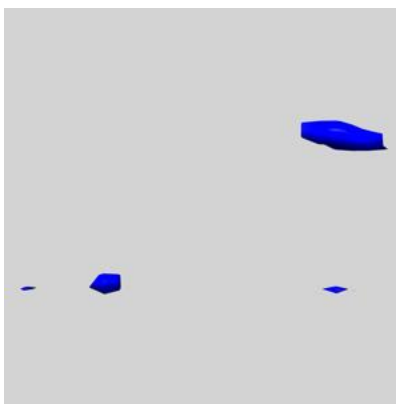


Z

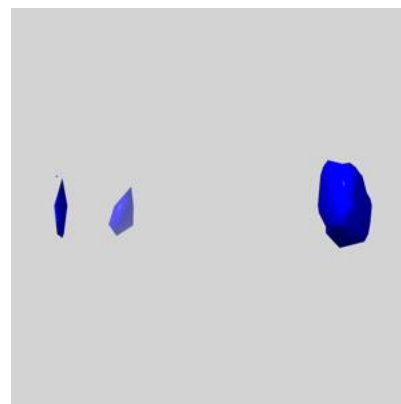
6.5.8 emd_1001_msk_18.map [i](#)



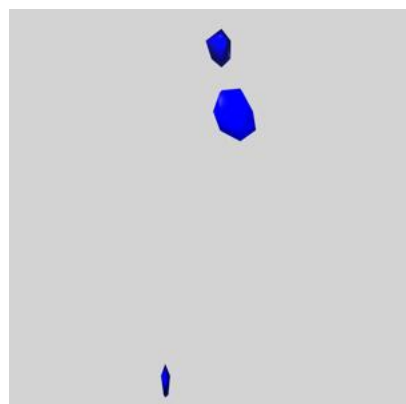
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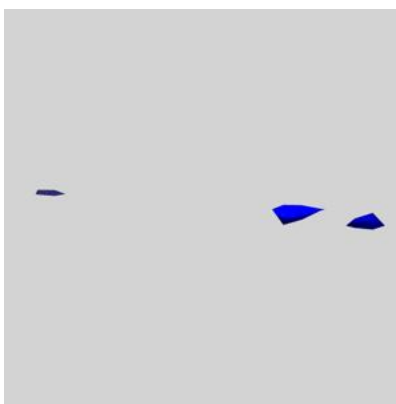
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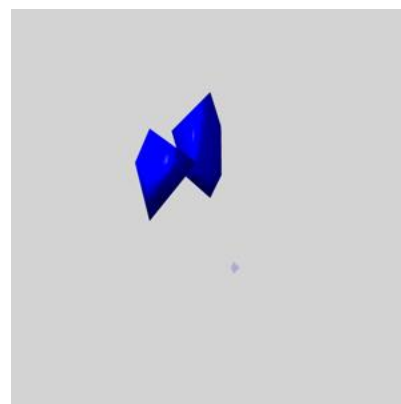
Z

6.5.9 emd_1001_msk_17.map [i](#)

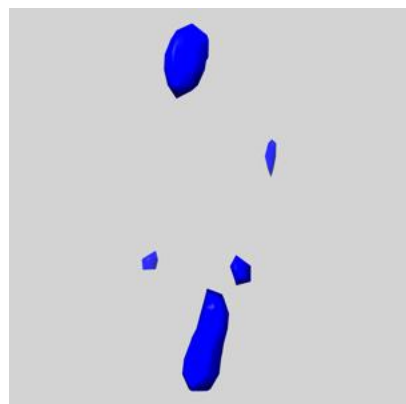
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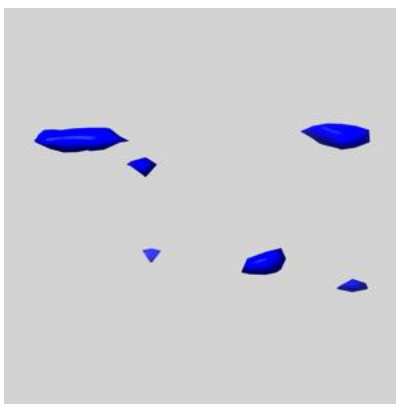
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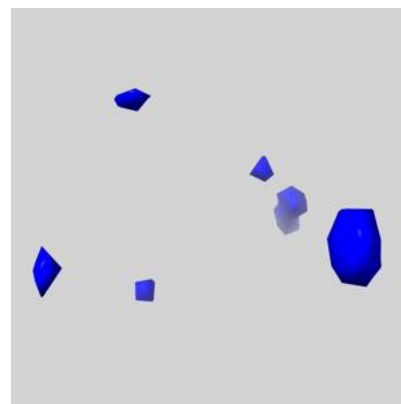
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6.5.10 emd_1001_msk_16.map [i](#)

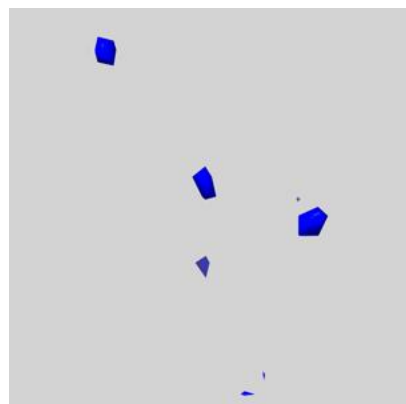
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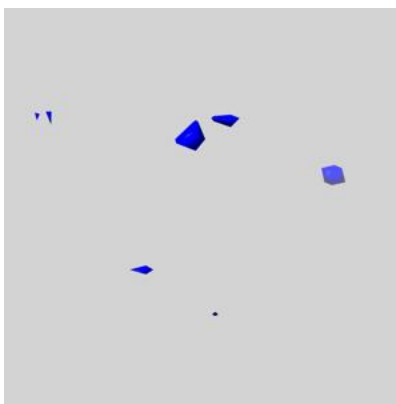
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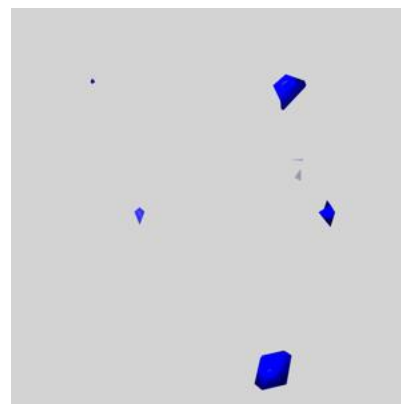
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6.5.11 emd_1001_msk_15.map [i](#)

X

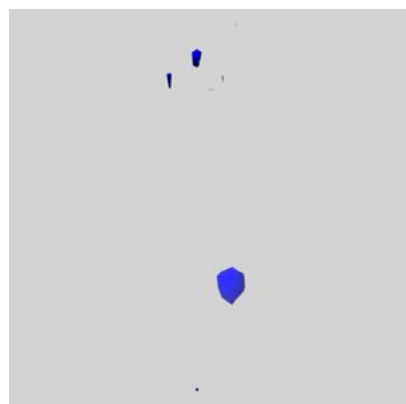


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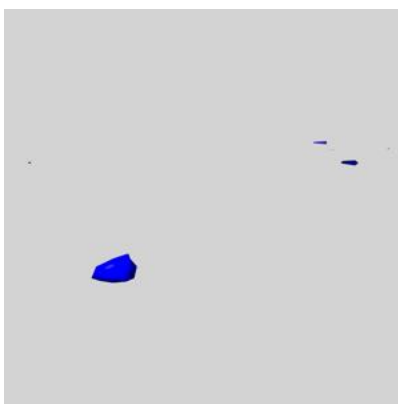


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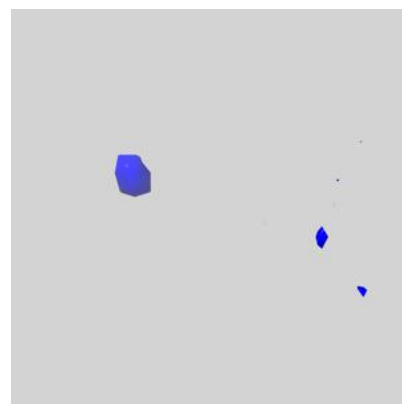
6.5.12 emd_1001_msk_14.map [i](#)



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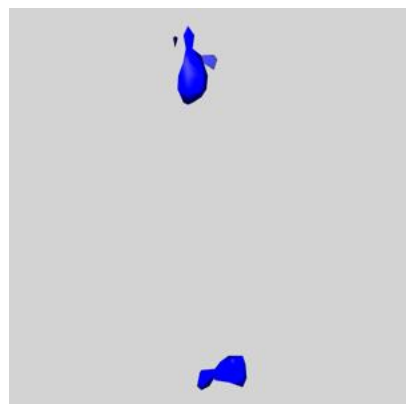


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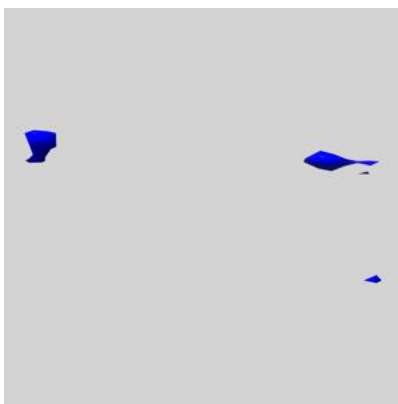


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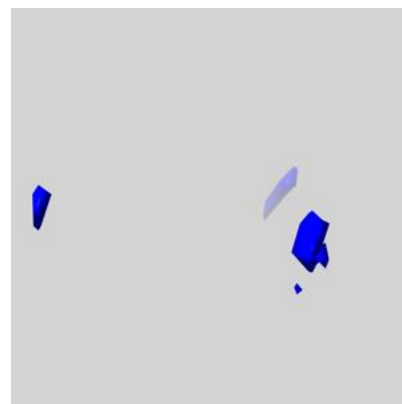
6.5.13 emd_1001_msk_13.map [i](#)



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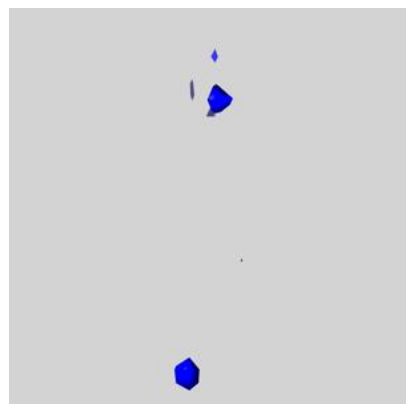


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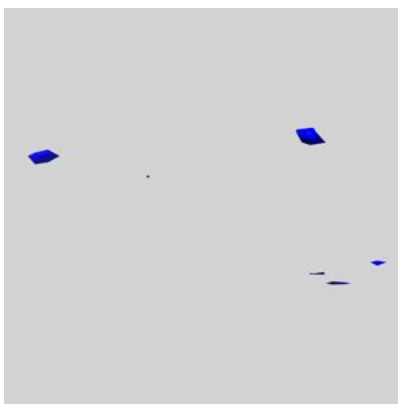


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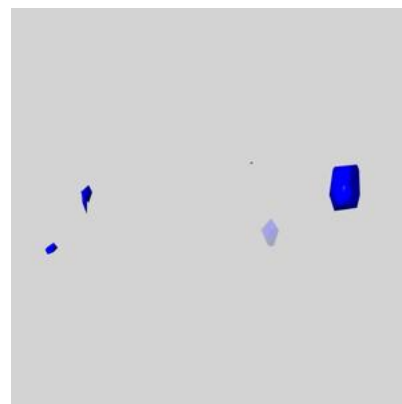
6.5.14 emd_1001_msk_12.map [i](#)



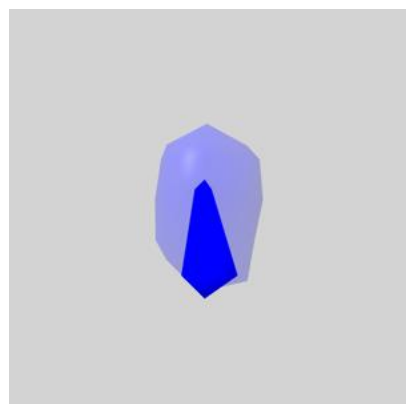
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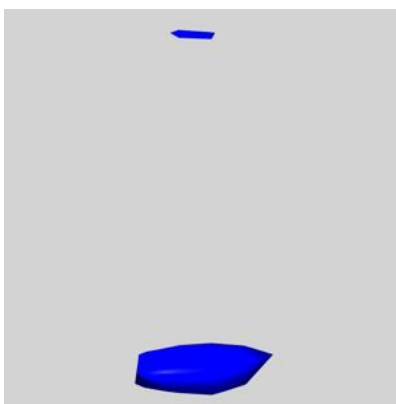
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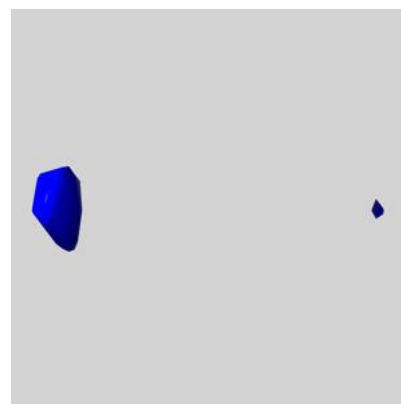
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6.5.15 emd_1001_msk_11.map [i](#)

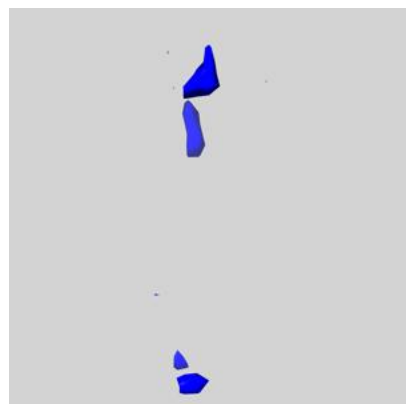
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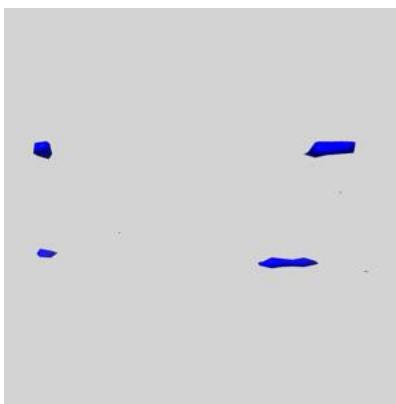
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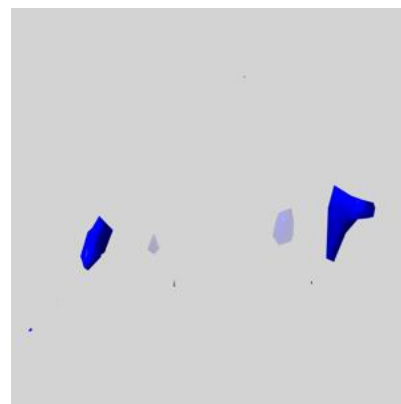
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6.5.16 emd_1001_msk_10.map [i](#)

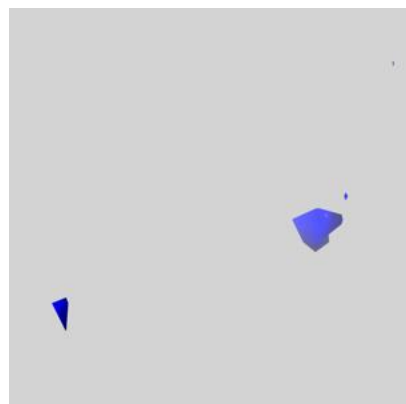
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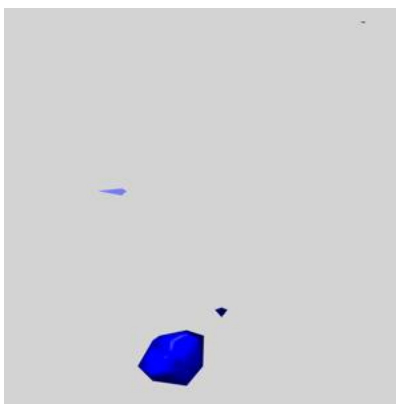
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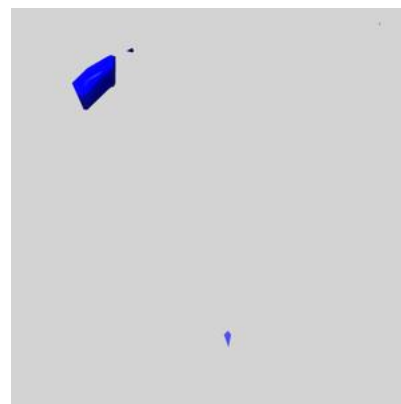
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6.5.17 emd_1001_msk_9.map [i](#)

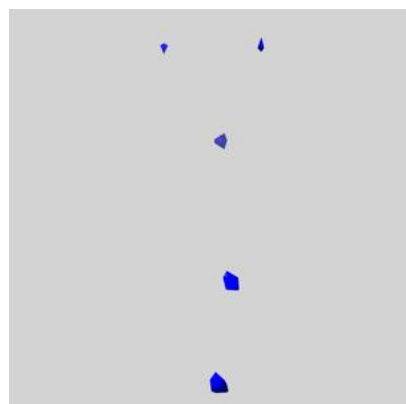
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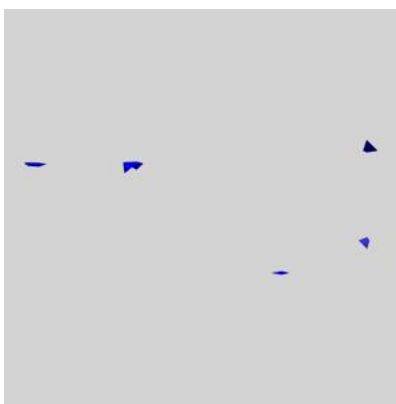
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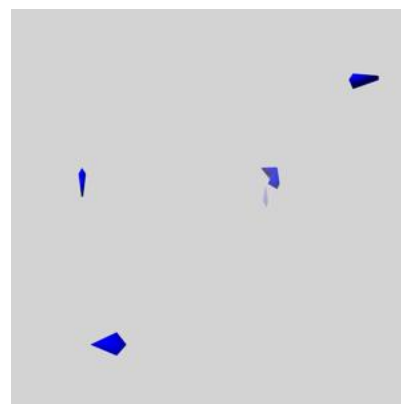
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6.5.18 emd_1001_msk_8.map [i](#)

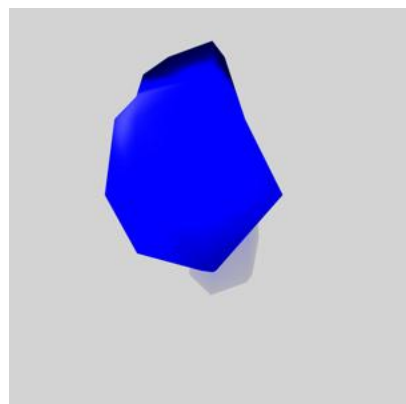
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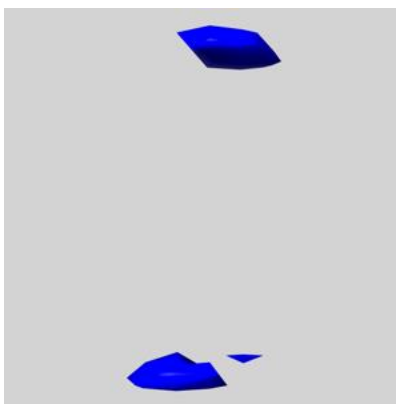
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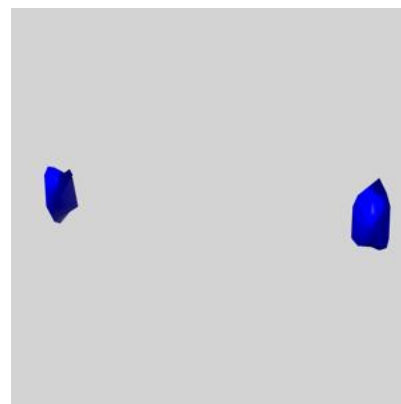
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6.5.19 emd_1001_msk_7.map [i](#)

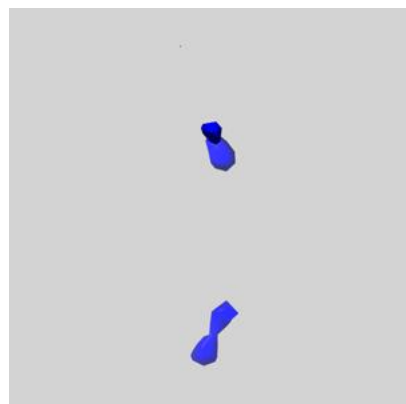
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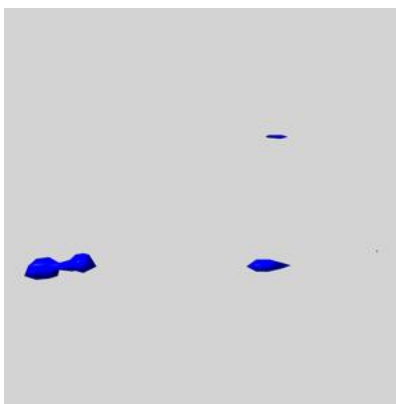
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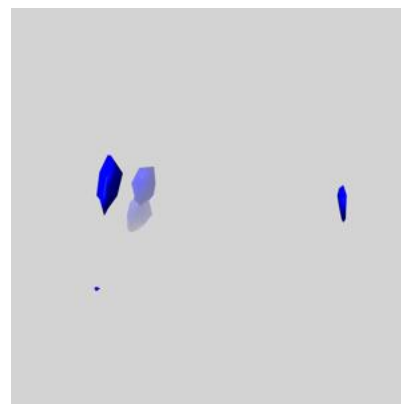
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6.5.20 emd_1001_msk_6.map [i](#)

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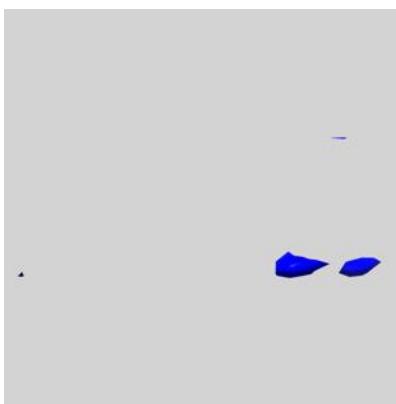
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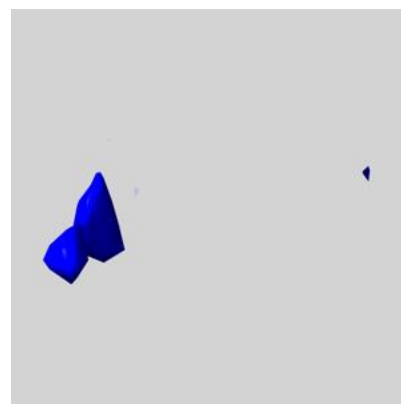
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6.5.21 emd_1001_msk_5.map [i](#)

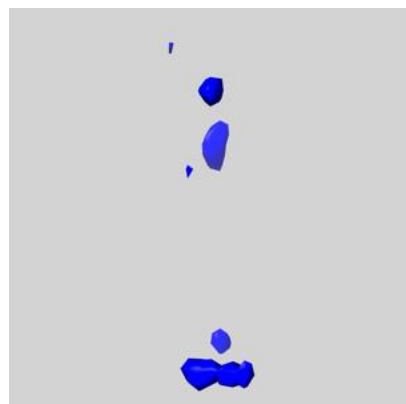
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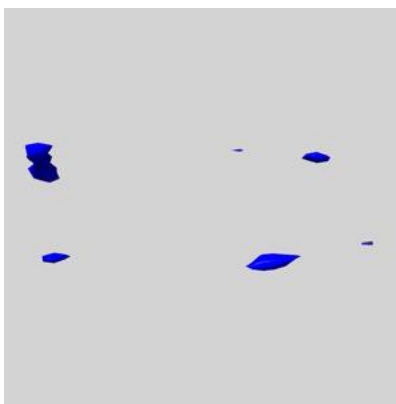
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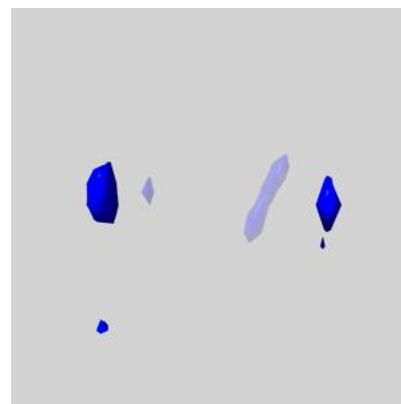
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6.5.22 emd_1001_msk_4.map [i](#)

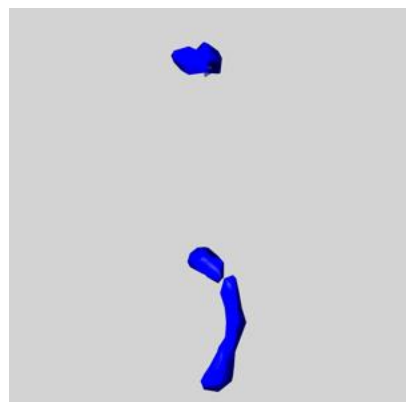
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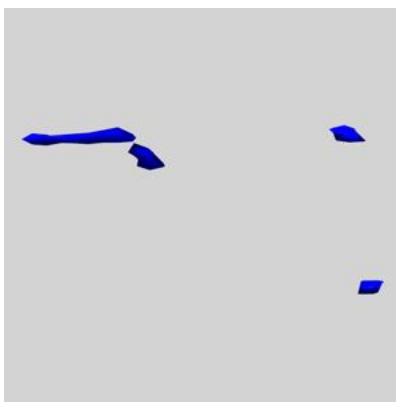
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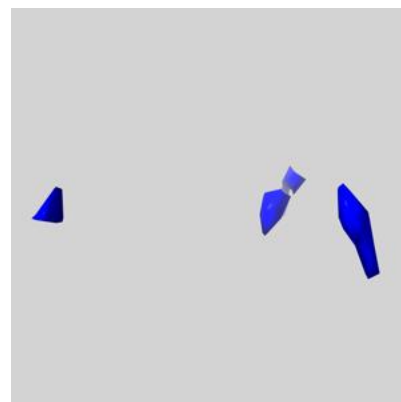
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6.5.23 emd_1001_msk_3.map [i](#)

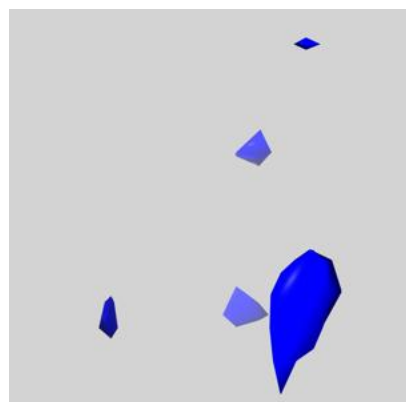
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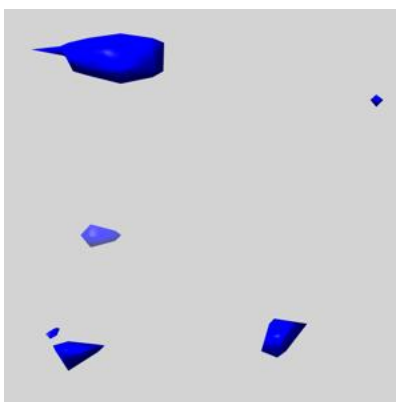
Y



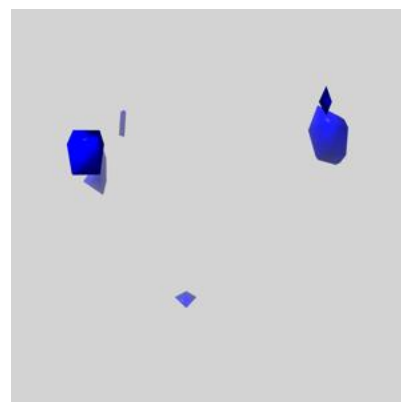
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6.5.24 emd_1001_msk_2.map [i](#)

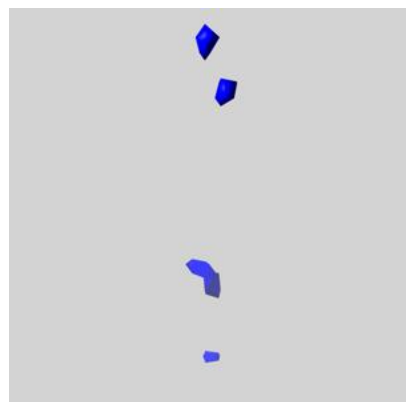
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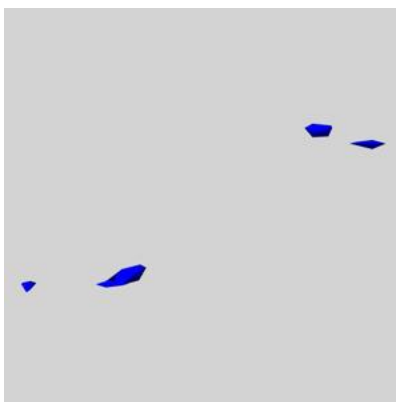
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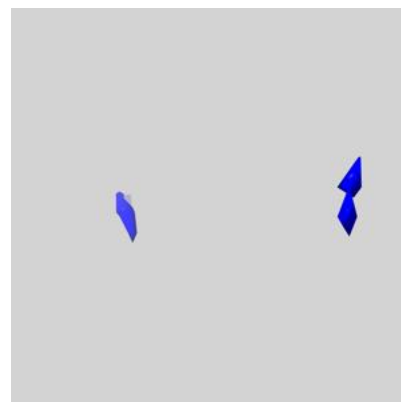
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6.5.25 emd_1001_msk_1.map [i](#)

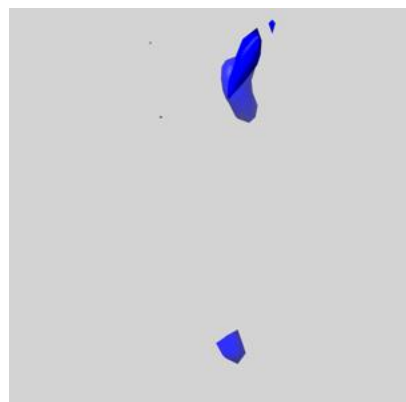
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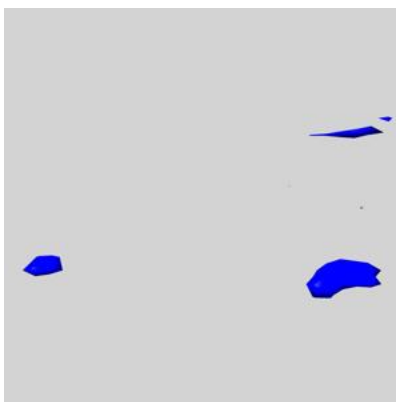
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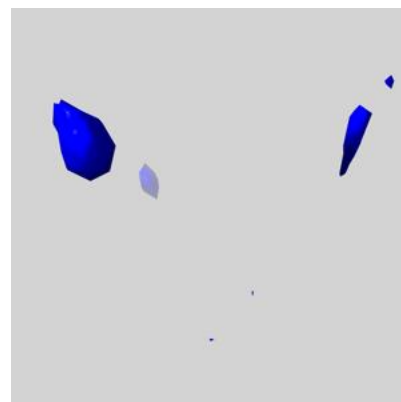
Z

6.5.26 emd_1001_msk_26.map [i](#)

X



Y

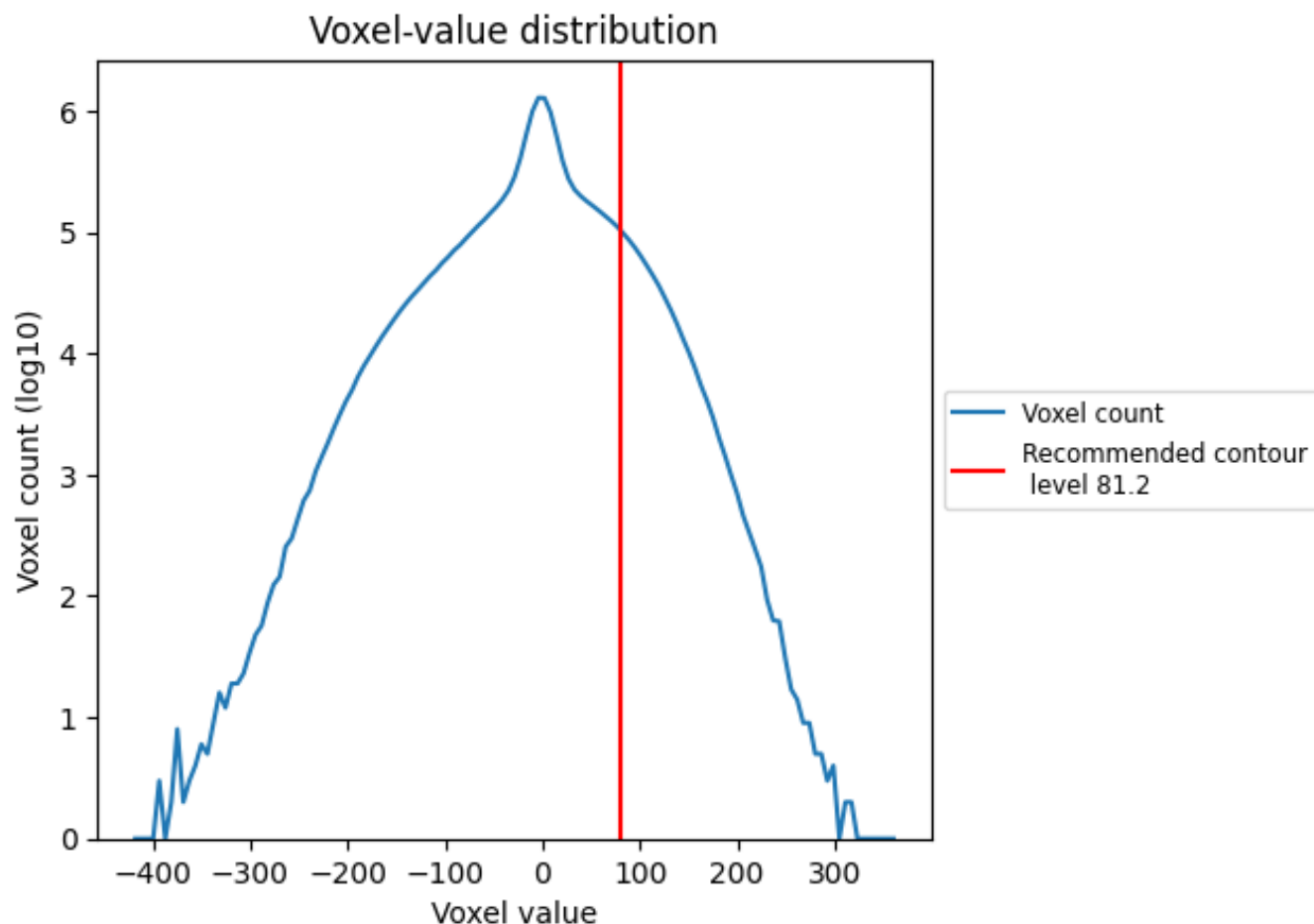


Z

7 Tomogram analysis [i](#)

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

7.1 Voxel-value distribution [i](#)



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

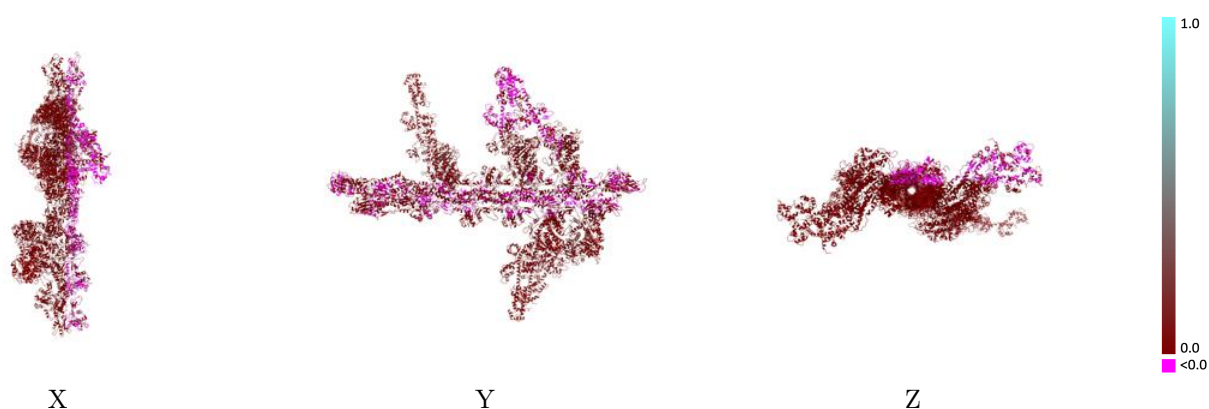
8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-1001 and PDB model 1O1C. Per-residue inclusion information can be found in section 3 on page 7.

8.1 Map-model overlay [i](#)

This section was not generated.

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

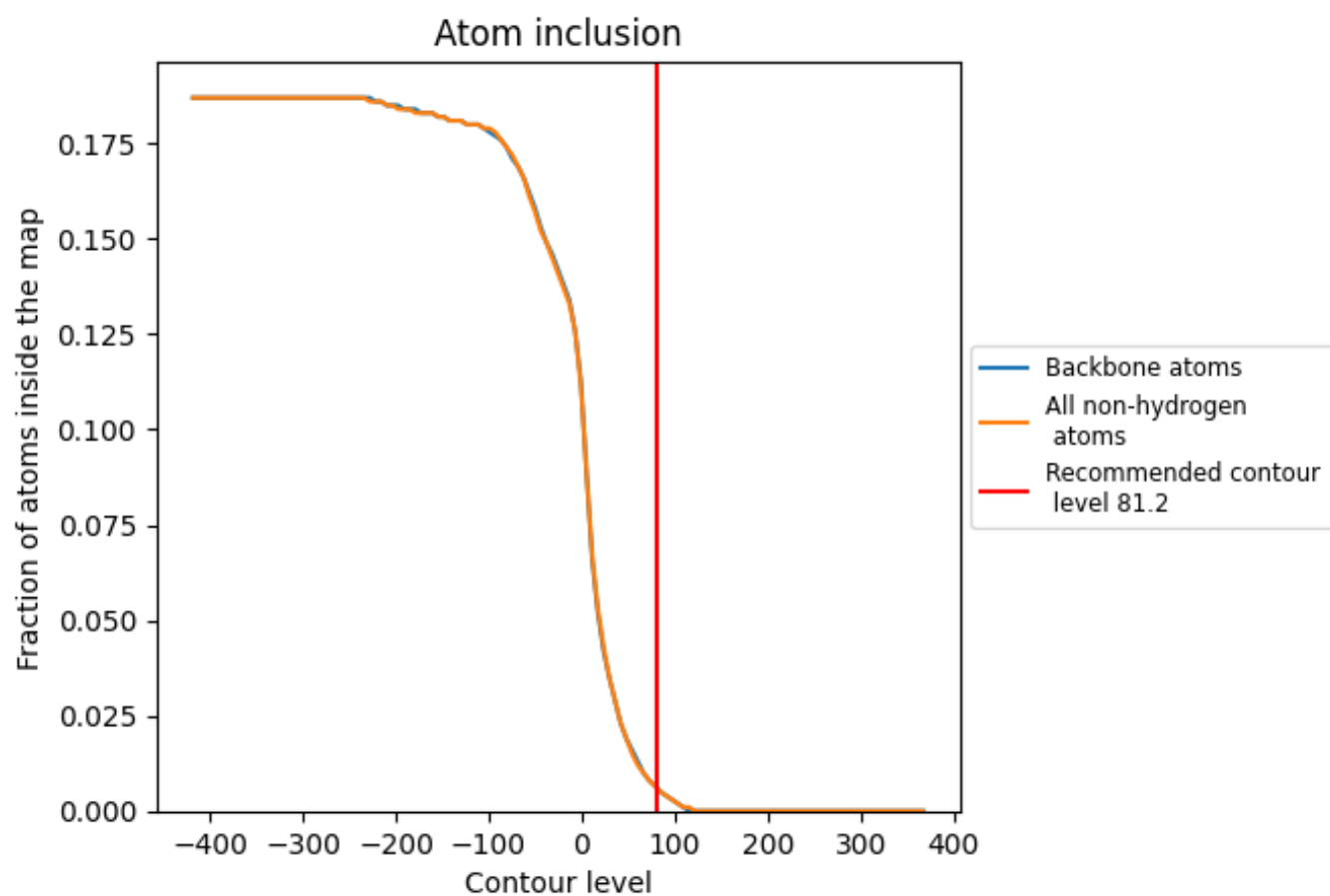


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

8.3 Atom inclusion mapped to coordinate model [i](#)

This section was not generated.

8.4 Atom inclusion [i](#)



At the recommended contour level, 1% of all backbone atoms, 1% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	 0.0060	 -0.0000
0	 0.0000	 0.0000
1	 0.0150	 0.0030
2	 0.0000	 -0.0000
3	 0.0000	 -0.0020
4	 0.0000	 -0.0050
5	 0.0000	 0.0090
7	 0.0000	 -0.0030
8	 0.0000	 -0.0040
9	 0.0000	 -0.0060
A	 0.0000	 0.0000
B	 0.0000	 0.0000
C	 0.0000	 0.0000
D	 0.0000	 0.0080
E	 0.0000	 -0.0160
F	 0.1520	 0.0100
G	 0.0000	 0.0000
H	 0.0000	 0.0000
I	 0.0000	 0.0000
J	 0.0000	 -0.0020
K	 0.0330	 0.0030
L	 0.0000	 -0.0230
P	 0.0000	 0.0000
Q	 0.0000	 0.0000
R	 0.0000	 0.0000
V	 0.0000	 -0.0110
W	 0.0000	 -0.0020
X	 0.0690	 -0.0020
Y	 0.0000	 0.0000
Z	 0.0070	 0.0050

