



Full wwPDB EM Validation Report ⓘ

Jun 20, 2024 – 05:10 AM JST

PDB ID : 7WOT
EMDB ID : EMD-32658
Title : Cryo-EM structure of the inner ring monomer of the *Saccharomyces cerevisiae* nuclear pore complex
Authors : Li, Z.Q.; Chen, S.J.B.; Zhao, L.; Sui, S.F.
Deposited on : 2022-01-22
Resolution : 3.73 Å(reported)

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:

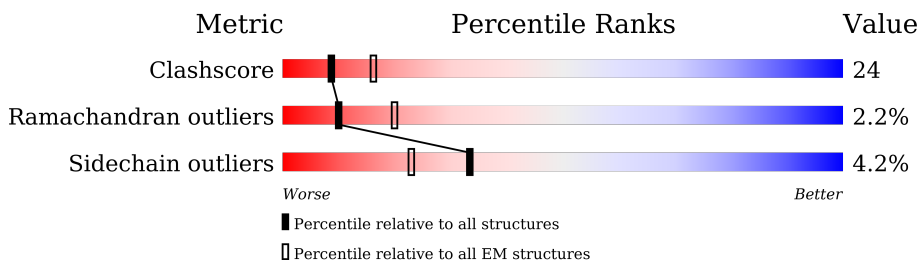
EMDB validation analysis : 0.0.1.dev92
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.73 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 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	839	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">78%</div> </div>
1	M	839	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">79%</div> </div>
1	N	839	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">29%</div> </div>
1	Z	839	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">29%</div> </div>
2	C	1391	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">95%</div> </div>
2	O	1391	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">95%</div> </div>
3	D	1502	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">70%</div> </div>
3	P	1502	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">70%</div> </div>

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Mol	Chain	Length	Quality of chain
4	E	1655	
4	Q	1655	
5	F	1683	
5	R	1683	
6	G	472	
6	J	472	
6	S	472	
6	V	472	
7	H	541	
7	K	541	
7	T	541	
7	W	541	
8	I	823	
8	L	823	
8	U	823	
8	X	823	

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 133827 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 Nucleoporin NIC96.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	732	Total	C	N	O	S	0	0
			5720	3628	975	1101	16		
1	M	729	Total	C	N	O	S	0	0
			5697	3616	972	1093	16		
1	N	746	Total	C	N	O	S	0	0
			5766	3656	976	1119	15		
1	Z	746	Total	C	N	O	S	0	0
			5767	3658	976	1118	15		

- Molecule 2 is a protein called Nucleoporin NUP157.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	C	1325	Total	C	N	O	S	0	0
			10452	6664	1736	2018	34		
2	O	1325	Total	C	N	O	S	0	0
			10452	6664	1736	2018	34		

- Molecule 3 is a protein called Nucleoporin NUP170.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	D	1398	Total	C	N	O	S	0	0
			10966	7012	1811	2111	32		
3	P	1398	Total	C	N	O	S	0	0
			10956	7005	1811	2108	32		

- Molecule 4 is a protein called Nucleoporin NUP188.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	E	1552	Total	C	N	O	S	0	0
			12362	8017	1981	2337	27		
4	Q	1552	Total	C	N	O	S	0	0
			12362	8017	1981	2337	27		

- Molecule 5 is a protein called Nucleoporin NUP192.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	F	1622	Total	C	N	O	S	0	0
			12239	7813	2031	2364	31		
5	R	1622	Total	C	N	O	S	0	0
			12239	7813	2031	2364	31		

- Molecule 6 is a protein called Nucleoporin NUP49/NSP49.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	G	200	Total	C	N	O	S	0	0
			1533	973	251	307	2		
6	J	195	Total	C	N	O	S	0	0
			1492	938	251	302	1		
6	S	200	Total	C	N	O	S	0	0
			1529	970	250	307	2		
6	V	195	Total	C	N	O	S	0	0
			1492	938	251	302	1		

- Molecule 7 is a protein called Nucleoporin NUP57.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	H	246	Total	C	N	O	S	0	0
			1811	1128	332	348	3		
7	K	254	Total	C	N	O	S	0	0
			1808	1126	334	345	3		
7	T	246	Total	C	N	O	S	0	0
			1811	1128	332	348	3		
7	W	254	Total	C	N	O	S	0	0
			1805	1123	334	345	3		

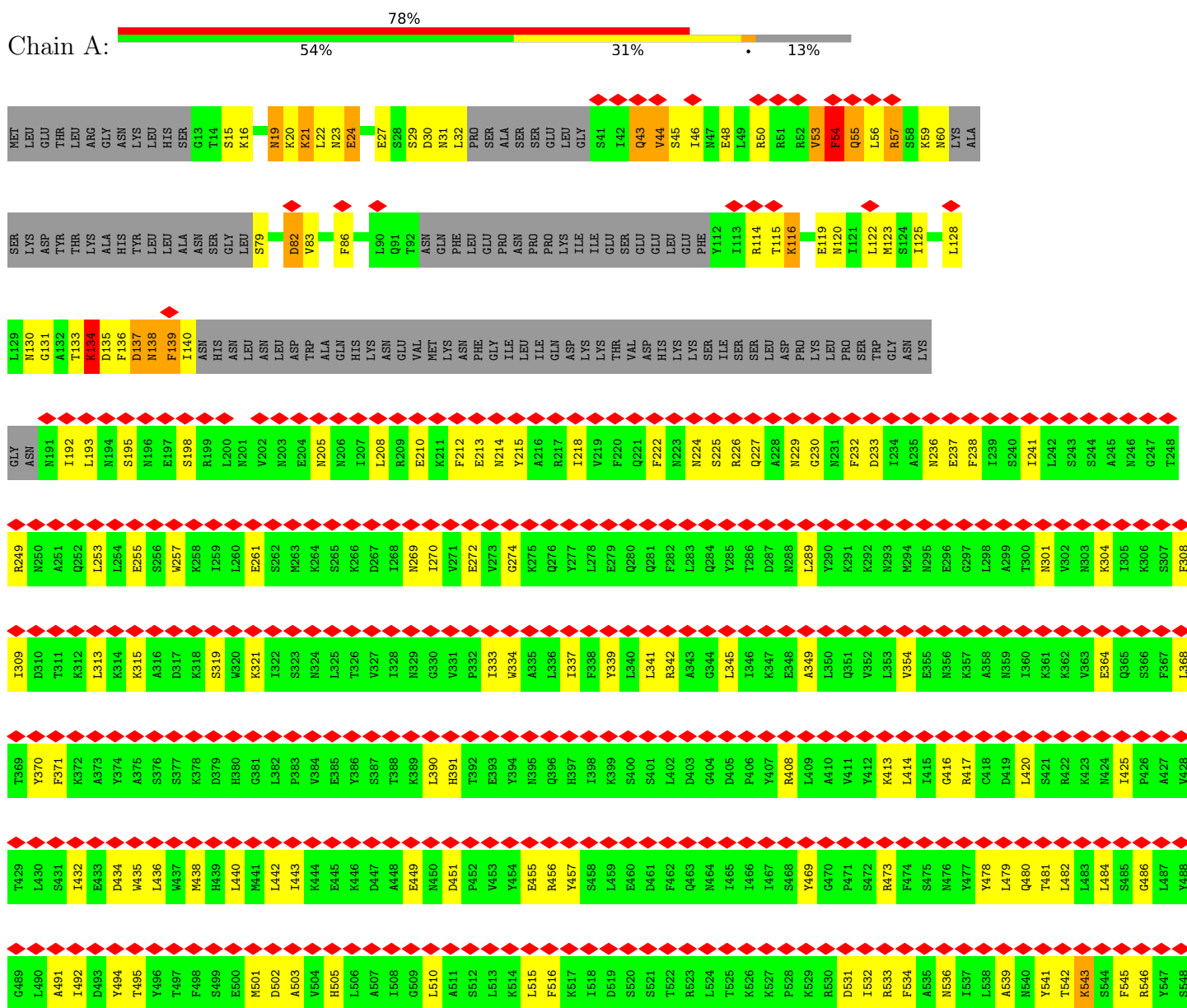
- Molecule 8 is a protein called Nucleoporin NSP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	I	187	Total	C	N	O	S	0	0
			1418	862	244	311	1		
8	L	187	Total	C	N	O	S	0	0
			1366	830	240	295	1		
8	U	187	Total	C	N	O	S	0	0
			1418	862	244	311	1		
8	X	187	Total	C	N	O	S	0	0
			1366	830	240	295	1		

3 Residue-property plots

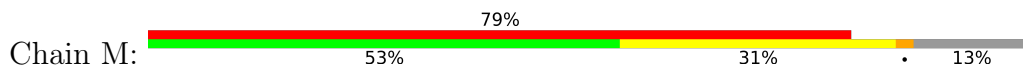
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Nucleoporin NIC96



D549	P650	R651	V652	A653	V654	E655	Y656	L657	V658	L659	I660	T661	L662	N663	E664	G665	P666	T667	D668	V669	E670	L671	C672	H673	E574	A575	L676	R677	E578	L579	V580	L681	E582	T583	F586	T587	V588	L589	L590	G591	K592	I593	G594	R595	D596	G597	A598	R599	I600	P601	V603	I604	E605	E606	R607	Q608	P609			
L610	L611	H612	V613	R614	D615	E616	K617	E618	F619	L620	H621	T622	G623	T624	E625	Q626	A627	A628	R629	R630	A631	D632	E633	D634	G635	R636	I637	G638	D639	S640	I641	L642	L643	L644	Q645	L646	A647	E648	E649	L650	D651	I652	V653	I654	T655	R656	L657	M658	R659	L660	L661	S662	D663	T664	L665	S666	A667	S668	D669	
L670	D671	Q672	P673	V674	V675	G676	P677	E678	D679	M680	S681	E682	T683	N684	P685	V686	L687	L688	A689	R690	R691	M692	A693	C694	S694	I695	Y696	F697	D698	N699	A700	G701	I702	S703	R704	Q705	I706	H707	V708	K709	N710	K711	E712	I713	C714	M715	L716	L717	L718	N719	I720	L621	S722	I723	R724	E725	L726	Y727	F728	N729
K730	Q731	W732	Q733	L734	T735	L736	S737	Q738	W739	E740	L741	D742	L743	L744	L745	P746	F747	S748	D749	E750	L751	S752	A753	R754	K755	K756	A757	Q758	N699	D759	F760	S761	N762	L763	D764	D765	T766	I767	V768	K769	N770	I771	P772	N773	L774	L775	I776	I777	T778	L779	S780	C781	I782	S783	N784	M785	I786	H787	L788	L789
M790	E791	S792	K793	Y794	Q795	S796	S797	T798	K799	G800	Q801	Q802	I803	D804	S805	L806	K807	N808	V809	A810	R811	Q812	C813	M814	I815	Y816	A817	G818	M819	I820	Q821	Y822	R823	M824	P825	R826	E827	T828	Y829	S830	T831	L832	I833	N834	I835	D836	V837	S838	L839											

• Molecule 1: Nucleoporin NIC96



MET	LEU	GLU	THR	LEU	ARG	GLY	ASN	LYS	HIS	LEU	HIS	LEU	ASP	GLN	T14	S15	K16	M19	K20	K21	L22	N23	E24	L25	L26	E27	S28	S29	R811	PHE	ASP	ASN	LEU	GLY	PRO	PRN	SER	ALA	ALA	R816	A817	LYS	SER	GLU	LEU	LEU	GLY	S41	I42	Q43	V44	S45	I46	R50	R51	V52	F54	Q55	L56	R57	S58	K59	M60	LYS	ALA	SER
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LYS	ASP	THR	LYS	ALA	HIS	THR	LEU	HIS	LEU	ASP	GLN	S79	D82	V83	F86	L90	Q91	T92	ASN	GLN	PHE	LEU	GLU	PRO	PRO	ASN	ILE	ILE	LEU	SER	GLU	GLU	GLU	PHE	Y112	I113	T115	K116	E119	I121	L122	M123	S124	I125	L128	L129
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M130	G131	A132	T133	L134	D135	F136	D137	M138	F139	L140	ASN	HIS	ASN	LEU	ASP	TRP	ALA	GLN	HIS	LYS	ASN	VAL	MET	LYS	PHE	PHE	GLY	ILE	ILE	ILE	ASP	LYS	THR	VAL	ASP	HIS	LYS	LYS	SER	ILE	SER	SER	ASP	PRN	LYS	LEU	PRO	TRP	G141	F142	F143	F144	F145	F146	F147	F148	F149	F150
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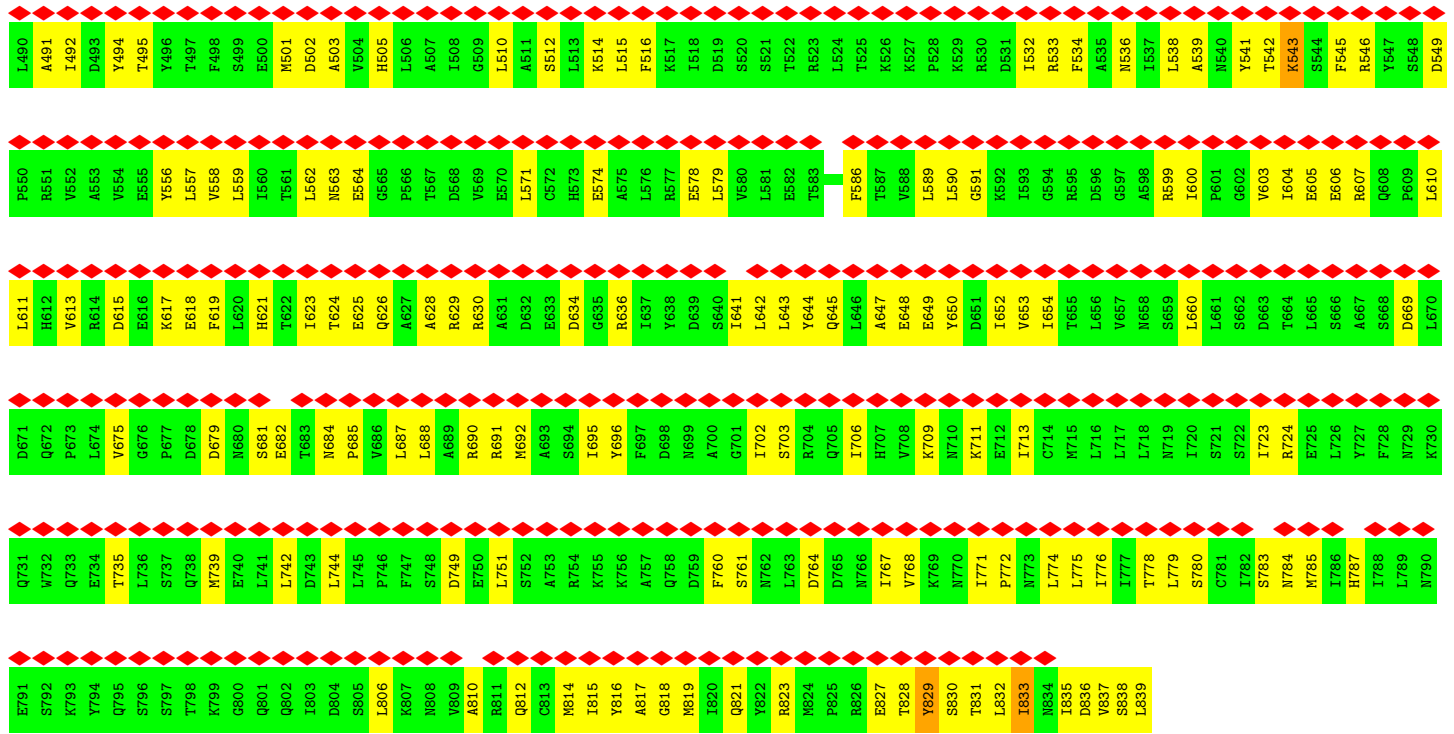
ASN	M191	I192	L193	M194	S195	M196	E197	S198	R199	L200	N201	V202	N203	E204	N205	N206	I207	L208	R209	E210	K211	F212	E213	N214	N215	A216	R217	I218	V219	F220	Q221	F222	N223	N224	S225	R226	Q227	A228	N229	G230	N231	F232	N233	I234	N235	N236	N237	F238	I239	S240	I241	L242	S243	S244	A245	N246	L247	T248	R249
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M250	A251	Q252	L253	L254	E255	S256	W257	K258	L259	L260	E261	S262	M263	K264	S265	K266	D267	I268	N269	V270	L271	E272	V273	G274	A275	Q276	Y277	L278	E279	Q280	Q281	F282	L283	Q284	Y285	T286	D287	M288	L289	Y290	K291	K292	N293	M294	N295	E296	G297	L298	N299	T300	N301	V302	N303	K304	I305	K306	S307	F308	I309
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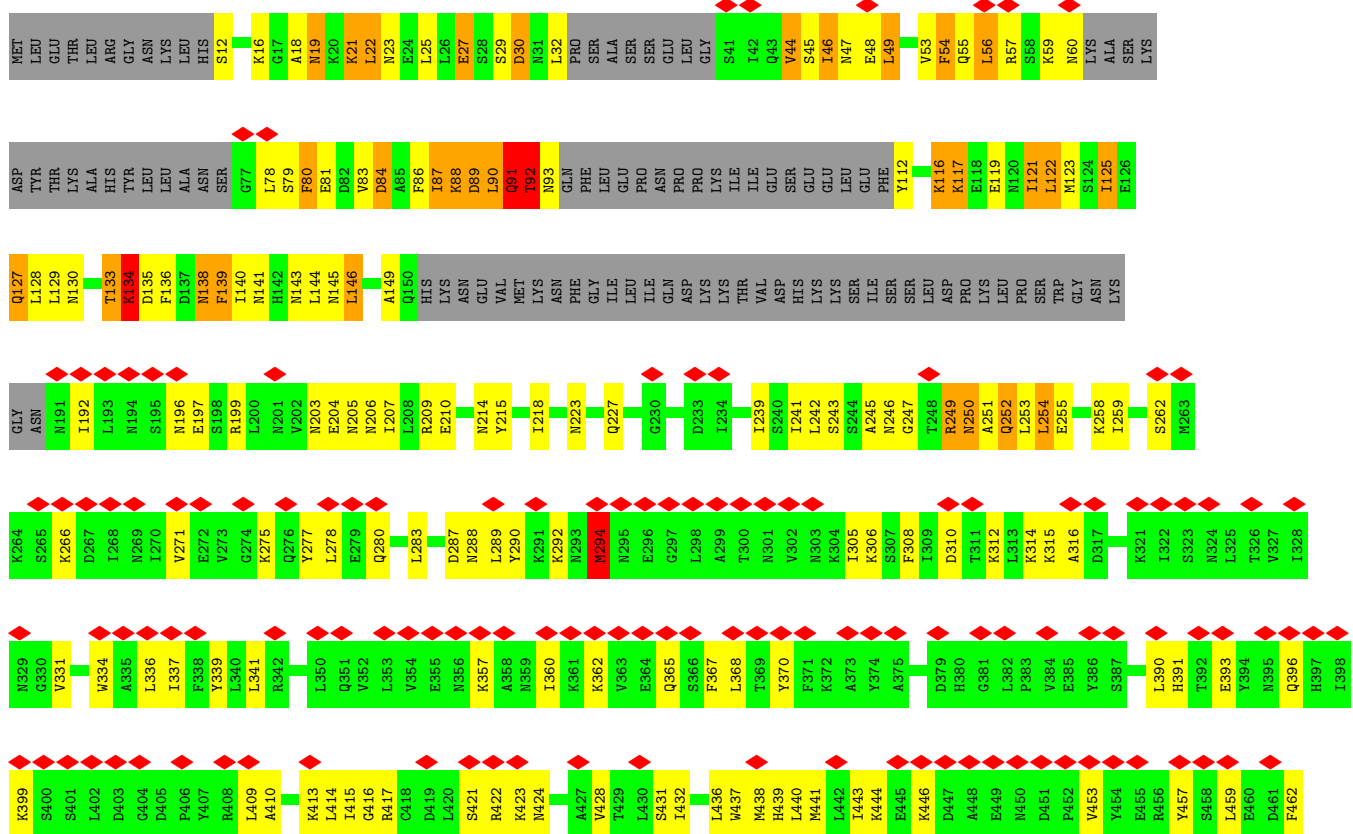
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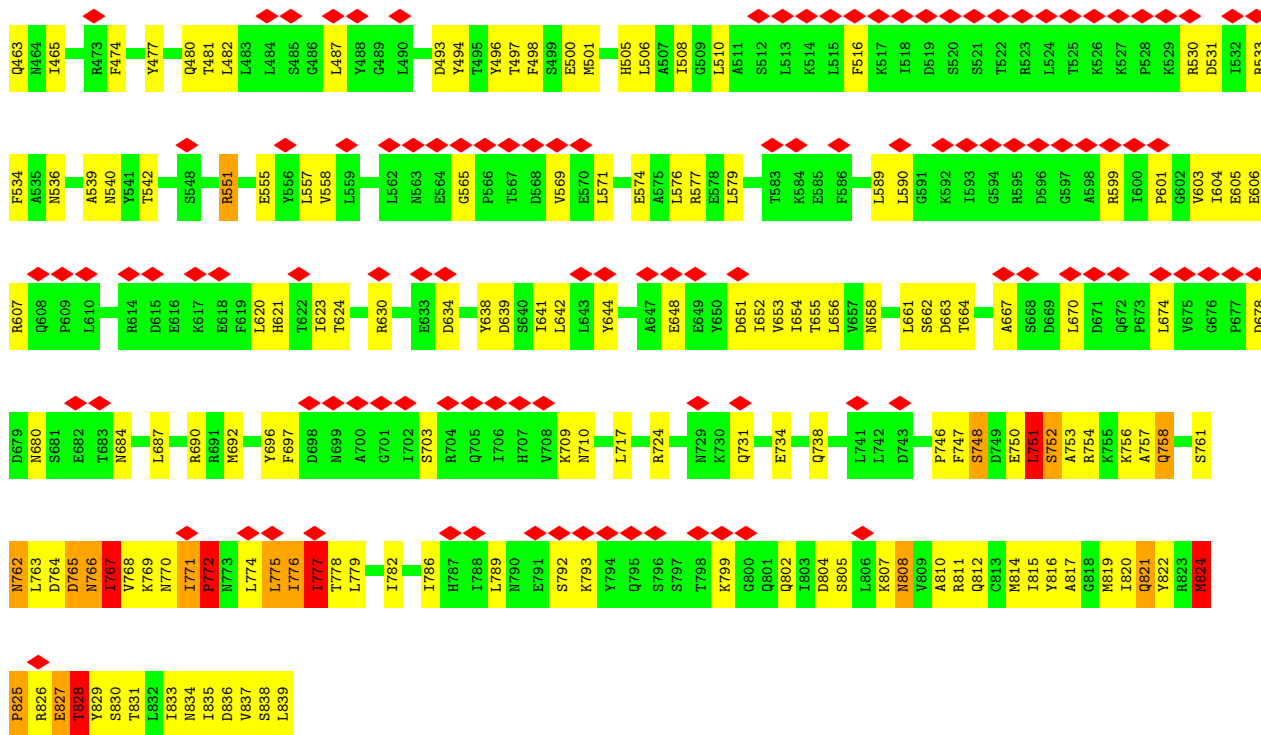
Y370	F371	K372	A373	Y374	A375	S376	S377	K378	D379	H380	G381	L382	P383	V384	E385	Y386	S387	T388	K389	N390	H391	T392	E393	Y394	N395	Q396	H397	I398	K399	S400	S401	L402	D403	G404	D405	P406	Y407	R408	L409	A410	V411	Y412	K413	L414	L415	G416	R417	C418	D419	L420	S421	R422	K423	M424	L425	P426	A427	V428	T429
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L430	S431	L432	E433	D434	N435	L436	W437	M438	R439	L440	M441	L442	L443	K444	E445	K446	D447	A448	E449	N450	D451	P452	V453	Y454	E455	R456	Y457	S458	L459	E460	F462	Q463	N464	L465	L466	L467	S468	Y469	G470	P471	S472	R473	L474	S475	N476	Y477	Y478	L479	Q480	T481	L482	L483	L484	S485	G486	L487	Y488	G489
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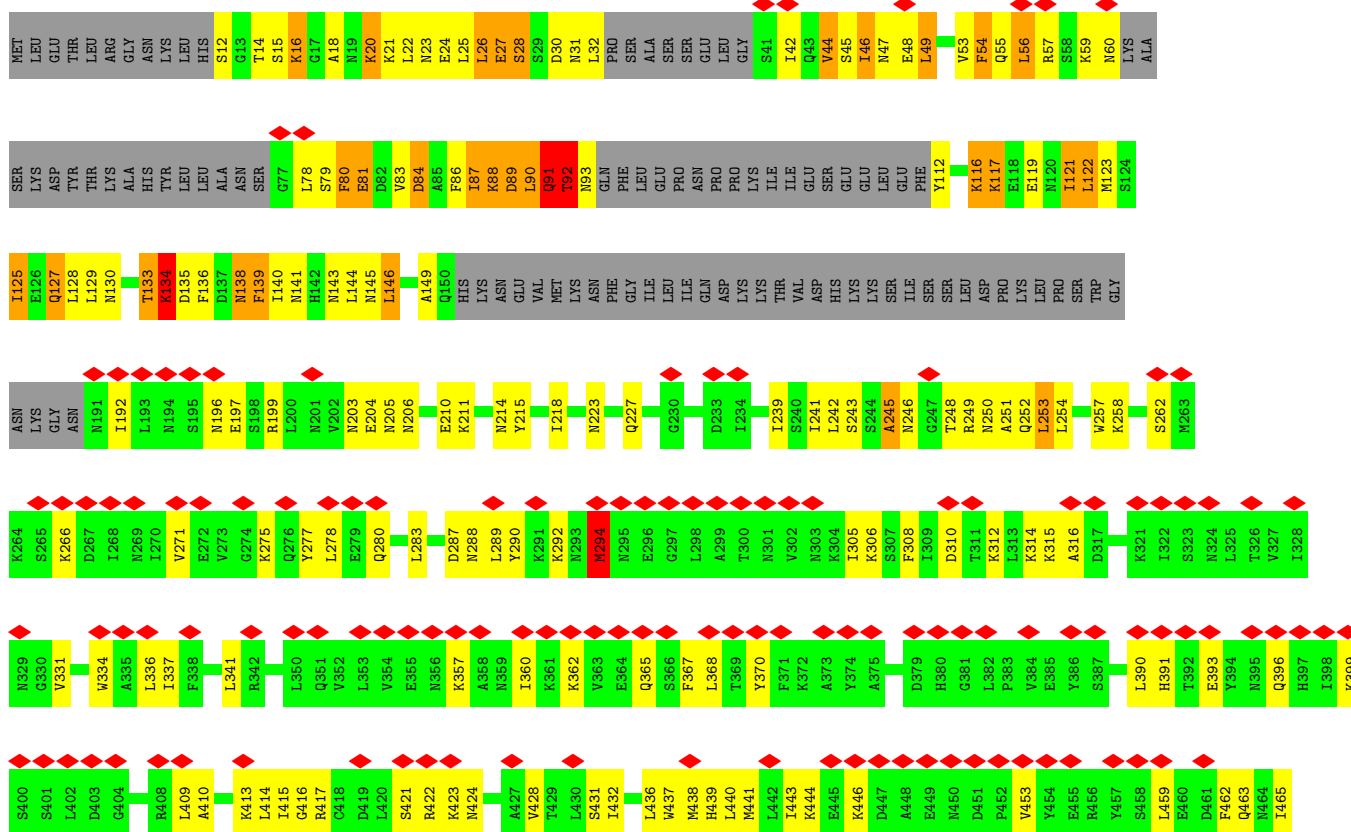


• Molecule 1: Nucleoporin NIC96





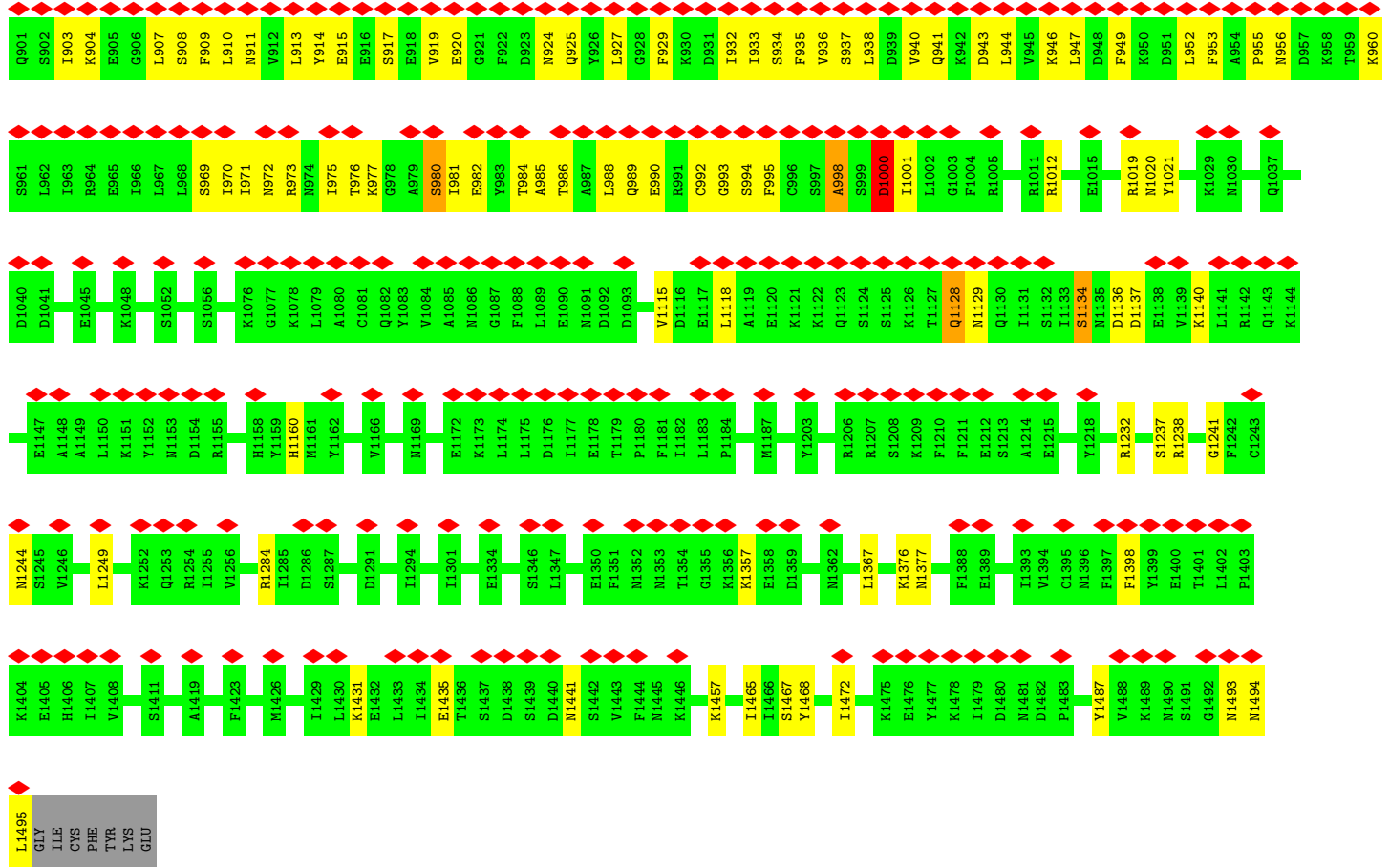
• Molecule 1: Nucleoporin NIC96



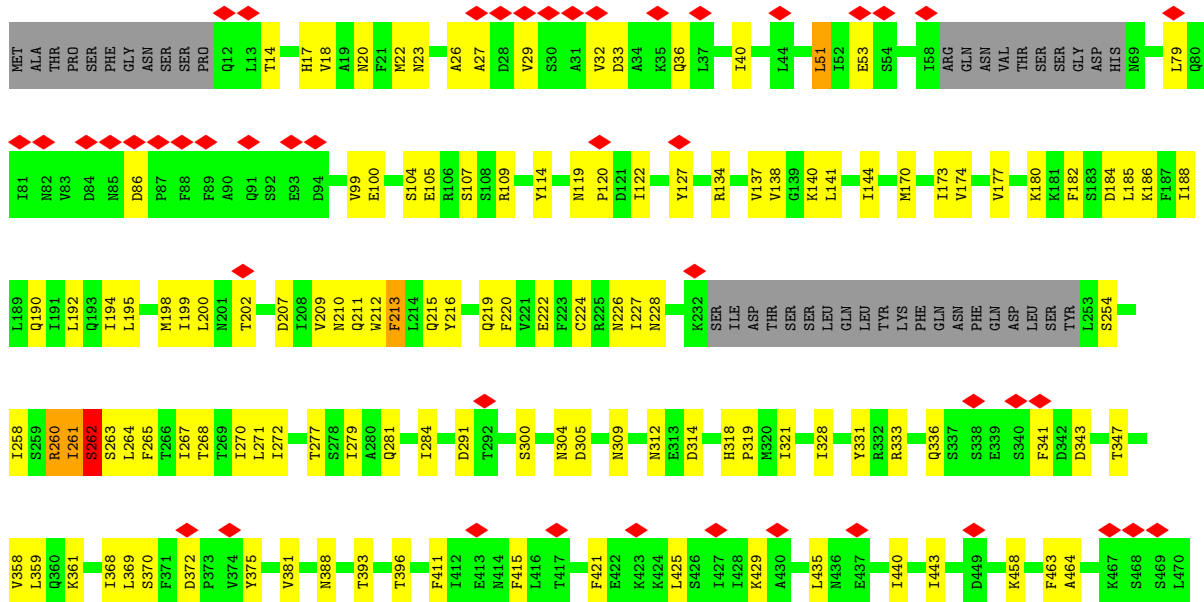
S1146	L1081	P961	I1021	R841	G781	S721	A661	V601	S541	G481	F421
F1147	P1082	K962	E1022	E842	S782	Q722	L662	A602	A542	P482	L422
D1148	Y1083	T963	Q1023	Y843	M783	I723	A663	V603	P443	L483	A423
Q1149	L1084	V964	S1024	F844	A784	M724	F664	L604	D544	S484	V424
K1150	K1085	G965	P1025	F845	I785	E725	F665	T605	Y545	T485	I425
P1151	E1086	F966	S1026	D846	T786	E726	S666	S606	G546	Q486	T426
A1152	R1087	L967	I1027	L847	A787	R727	A667	M607	I547	K487	T427
L1153	A1088	L968	A1028	K848	S788	V728	G668	A608	L548	A488	T428
V1154	E1089	R969	M1029	F849	D789	F729	I669	L609	K549	S489	G429
Q1155	K1090	F970	I1030	H850	A790	V730	P670	E610	N550	S490	V430
L1156	S1091	A971	S1031	D851	E791	F731	G671	I611	Y551	T491	R431
S1157	L1092	D972	I1032	L852	S792	K732	V672	Y612	G552	Y492	L432
E1158	E1093	K973	F1033	F853	I793	R733	G673	C613	K553	I493	Y433
M1159	I1094	I974	S1034	T854	A794	A734	E674	R614	K554	I494	F434
I1160	S1095	D975	P1035	P855	M795	S735	I675	R615	V555	T495	K435
H1161	N1096	K976	A1036	N856	M796	K736	K676	T616	E556	T496	G436
E1162	L1097	G977	S1037	A857	A797	T737	P677	P617	N557	C497	S437
F1163	L1098	Q978	S1038	K858	L798	E738	K678	D618	T558	A498	I438
F1164	F1100	Q979	L1039	T859	I799	K739	S679	E619	A559	S499	S439
D1165	Y1101	A980	K1040	K860	L800	M740	S680	V620	L560	T500	R440
I1166	L1102	Q981	R1041	Q861	L801	D741	R681	F621	L561	I501	R441
S1167	F1103	E982	K1042	L862	I802	A742	E682	E622	I502	I502	I442
I1169	K1104	Y983	V1043	L863	M803	F743	S883	S623	S503	S503	I443
Q1170	E1105	V984	Y1044	K864	S804	G744	G684	L624	P504	P504	G444
D1171	E1106	S985	S1045	E865	I805	I745	S685	I625	G505	G505	S445
H1107	H1107	R986	V1046	L866	K806	S746	E686	E626	I506	I506	L446
F1108	F1108	G987	I1047	L867	D807	I747	P687	M627	Y507	Y507	K447
L1173	L1109	C988	M1048	L868	A808	T748	P688	P628	F508	F508	L448
L1174	E1110	N989	M1049	E869	L809	R749	I689	L629	T509	T509	D449
M1175	S1050	T990	S1050	V670	S810	P750	S690	P630	C510	C510	S450
L1176	M1051	A991	M1051	V671	L811	Q751	Q891	F631	V511	V511	V451
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D1184	F1059	D999	F1059	T879	I619	I759	E699	E639	E519	E519	S459
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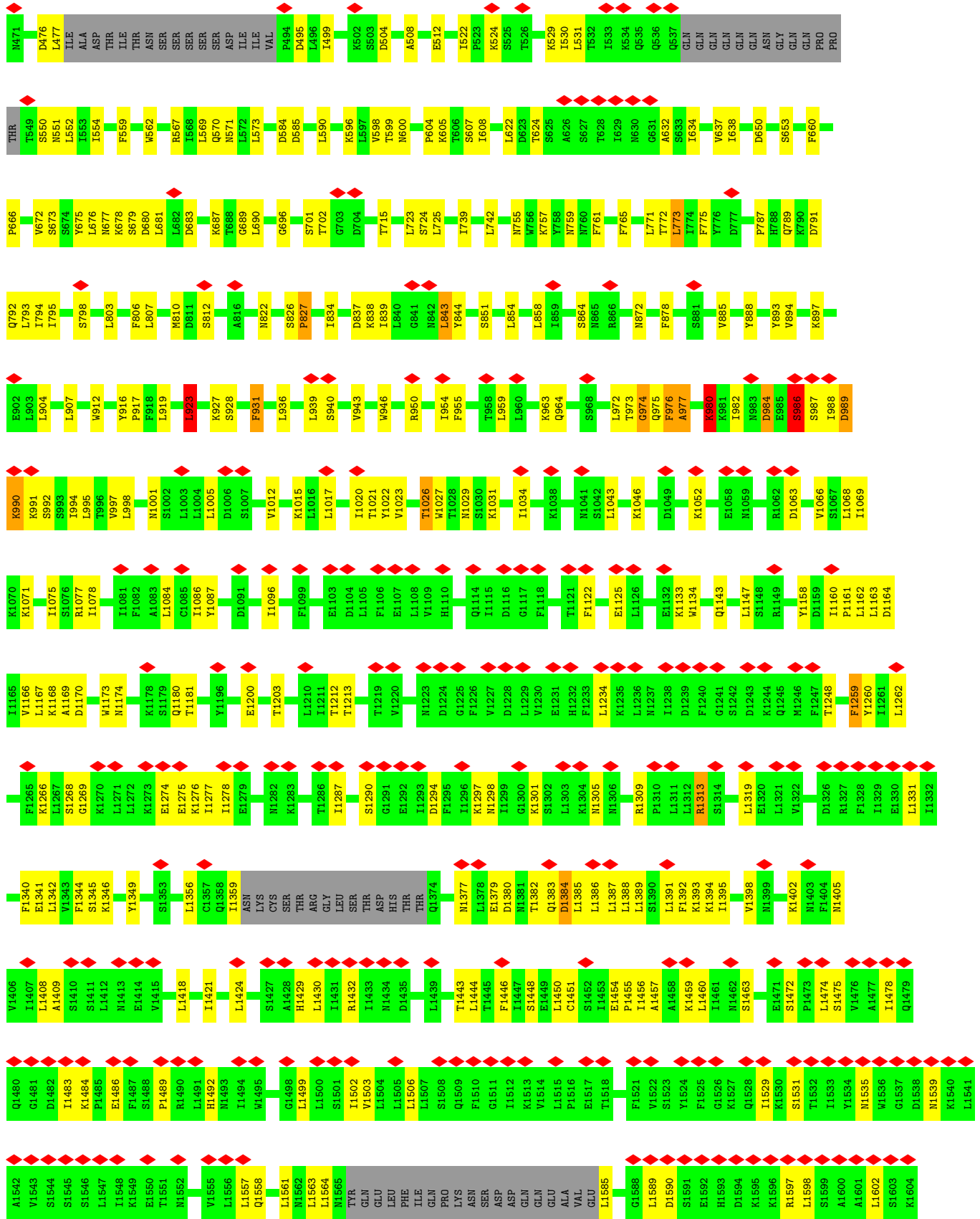
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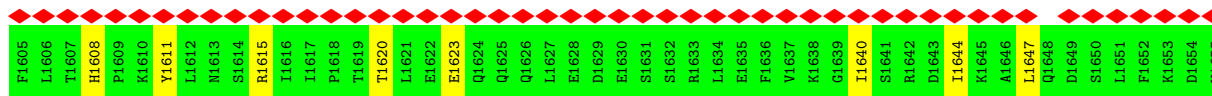
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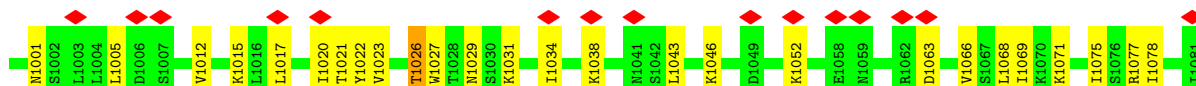
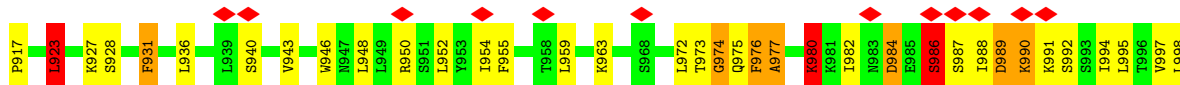
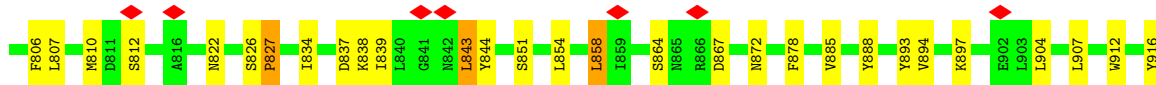
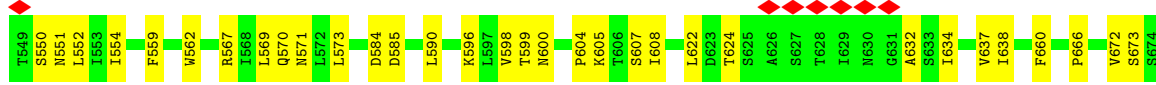
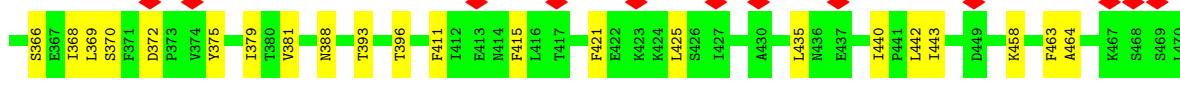
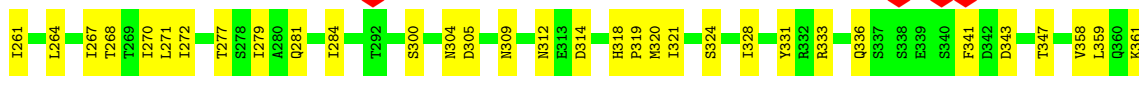
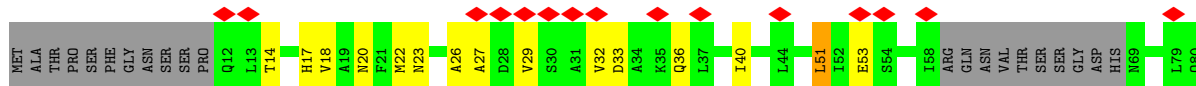
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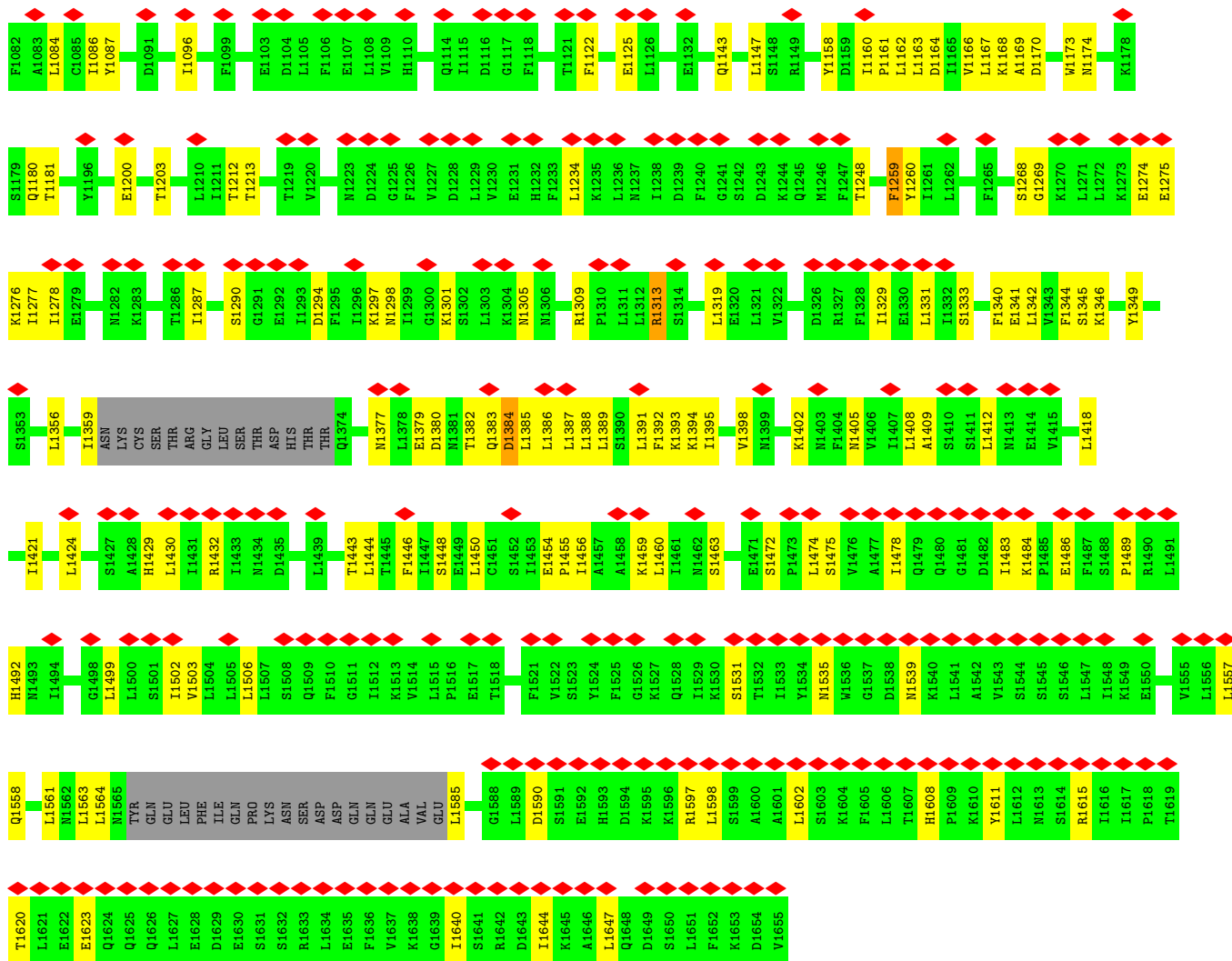




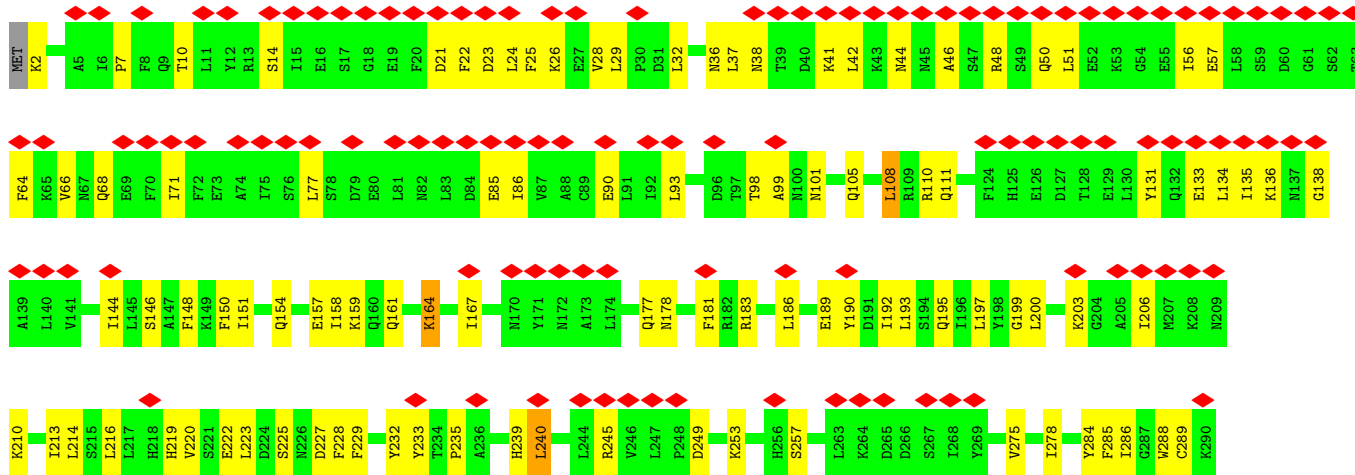


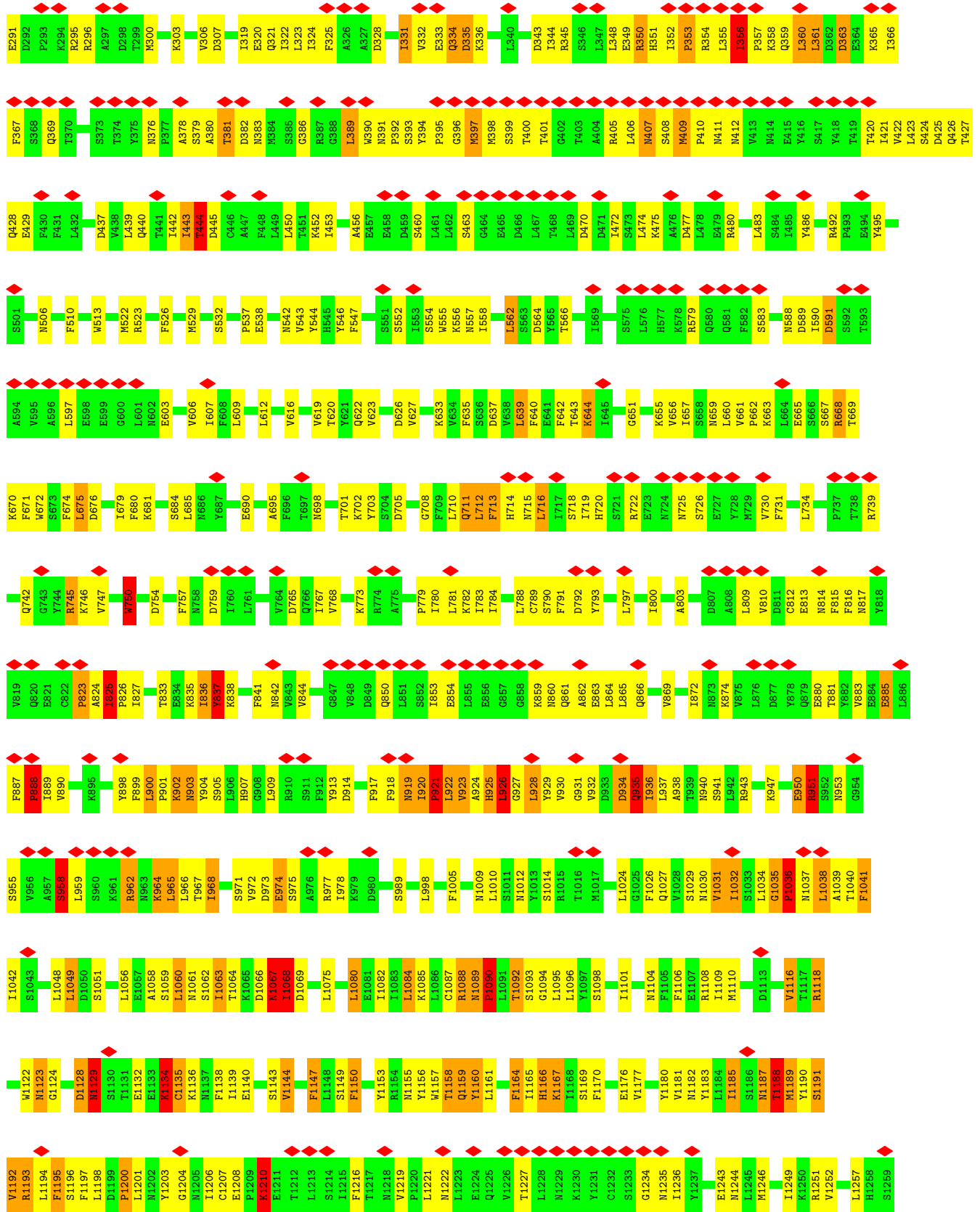
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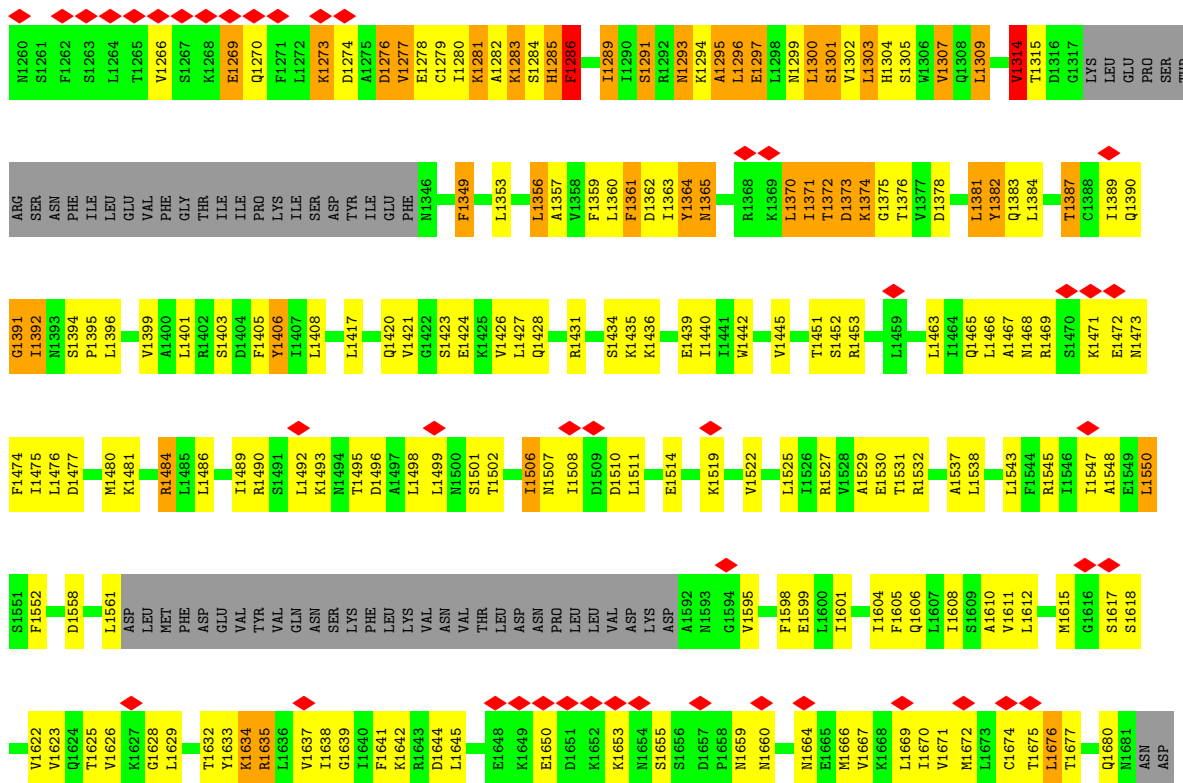




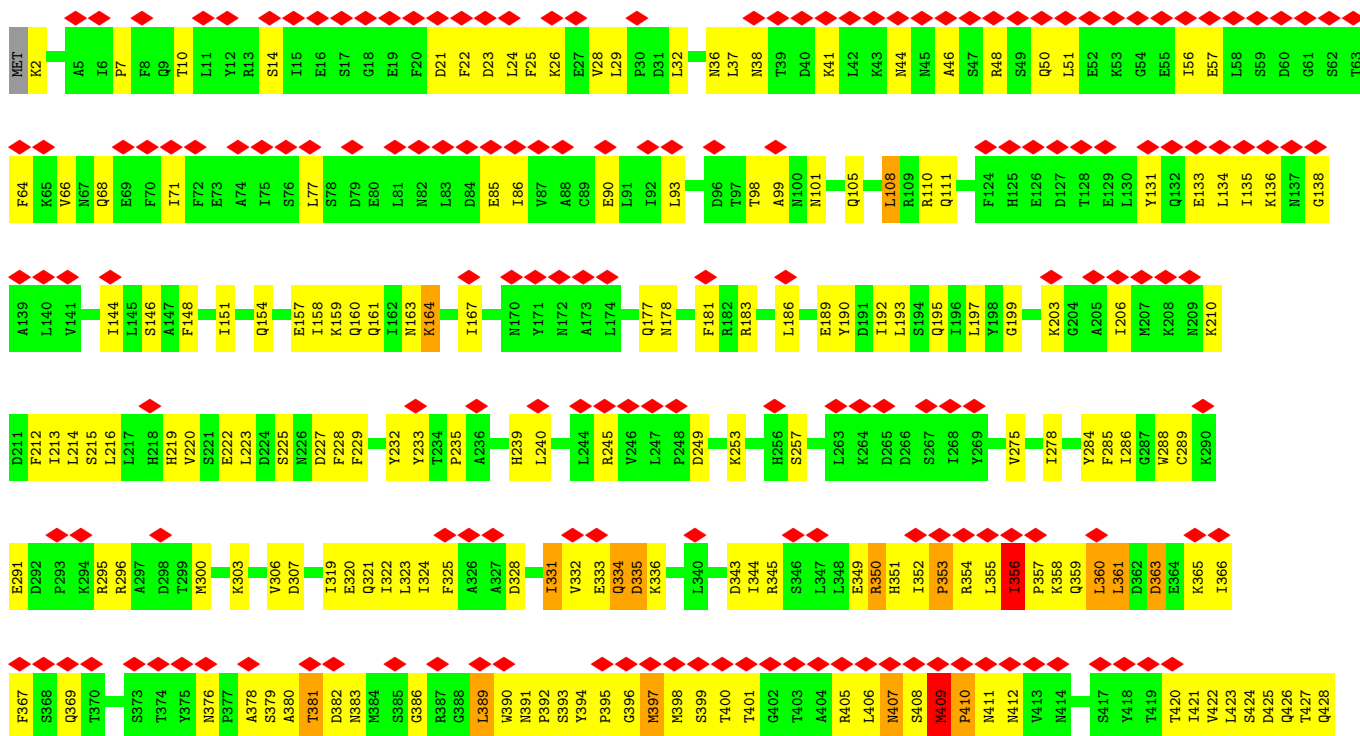
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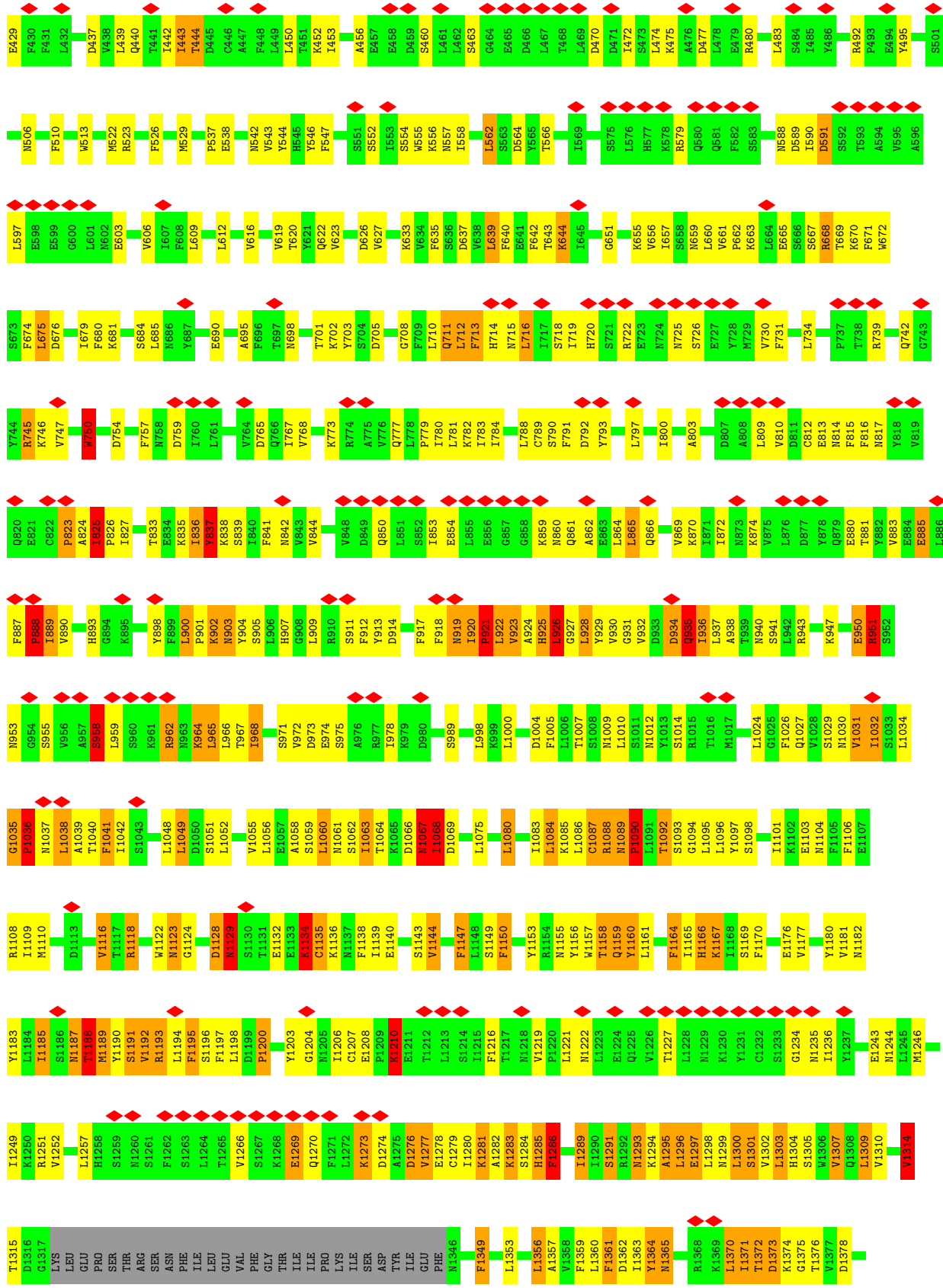


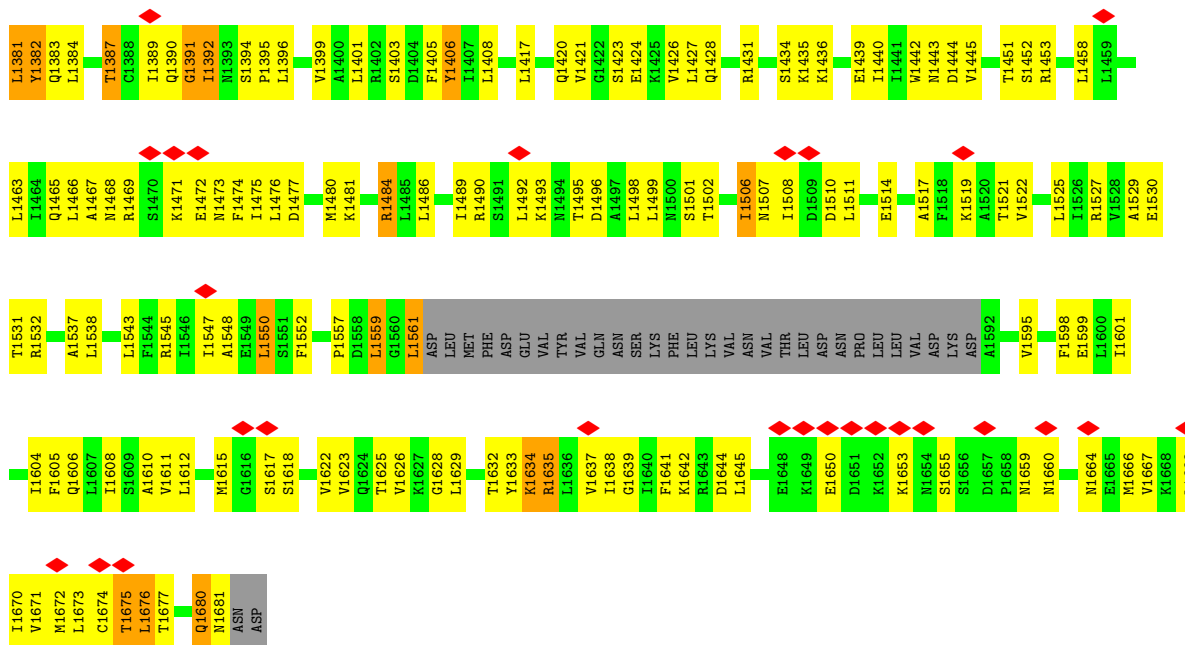




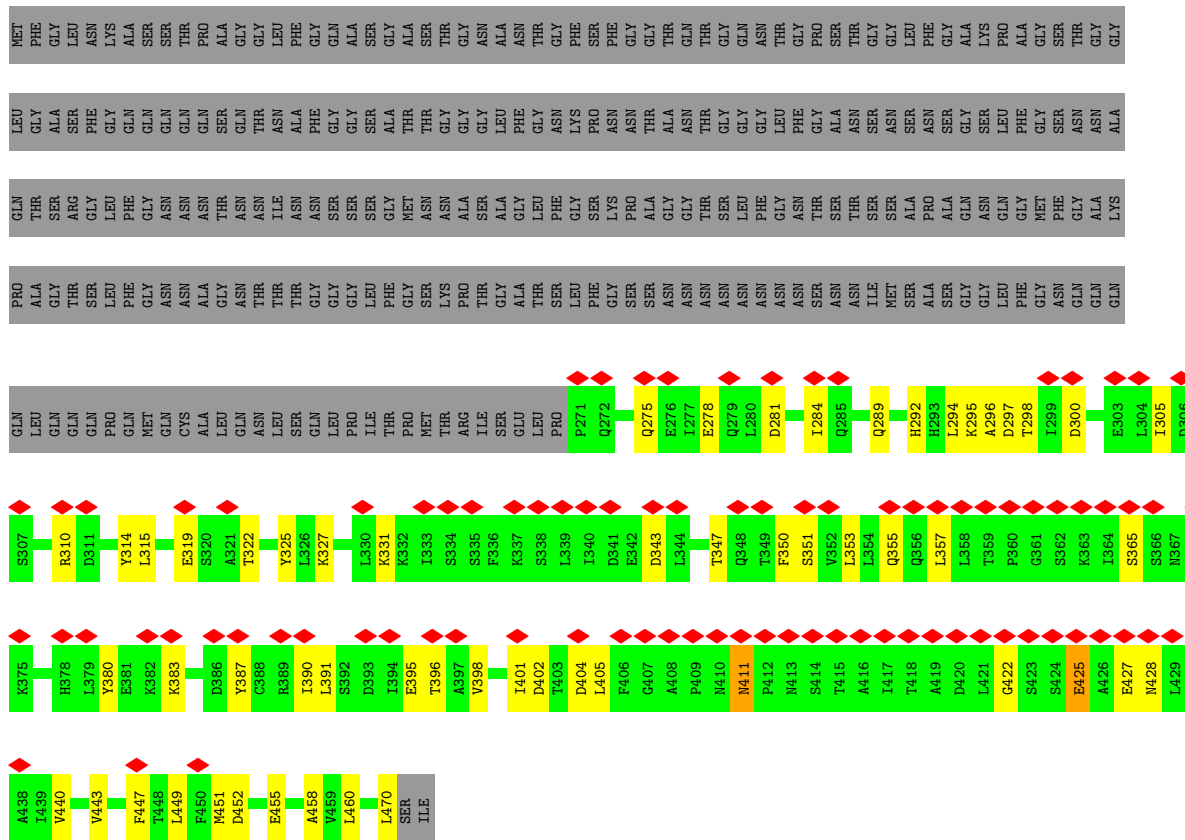
• Molecule 5: Nucleoporin NUP192



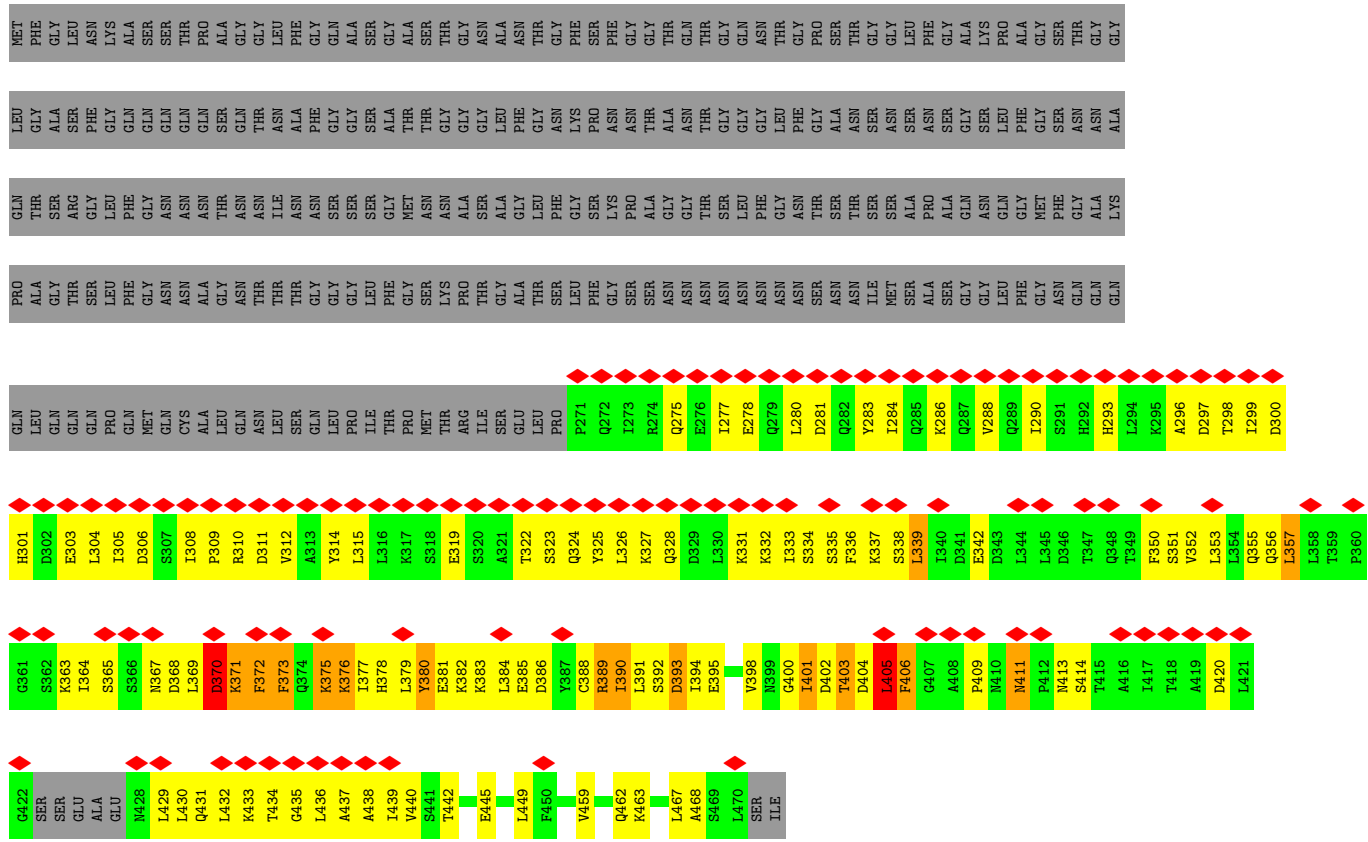




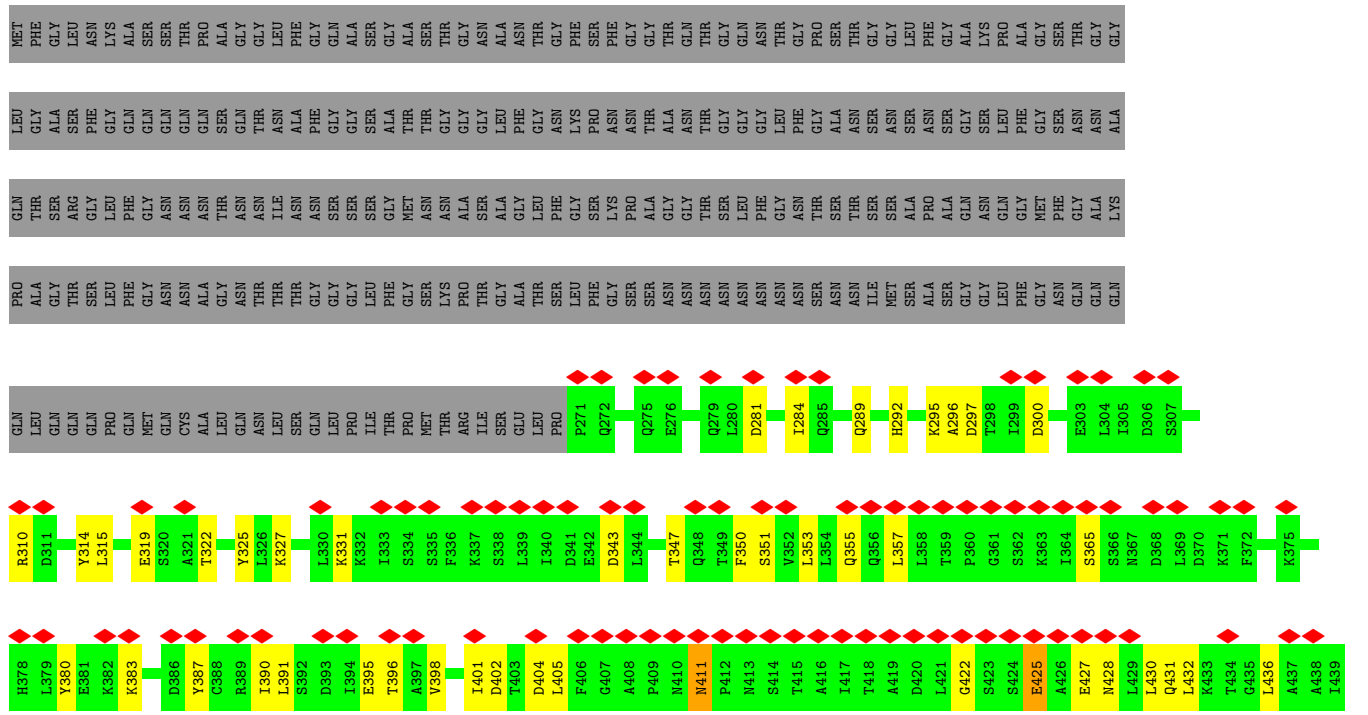
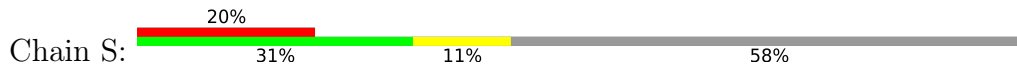
• Molecule 6: Nucleoporin NUP49/NSP49

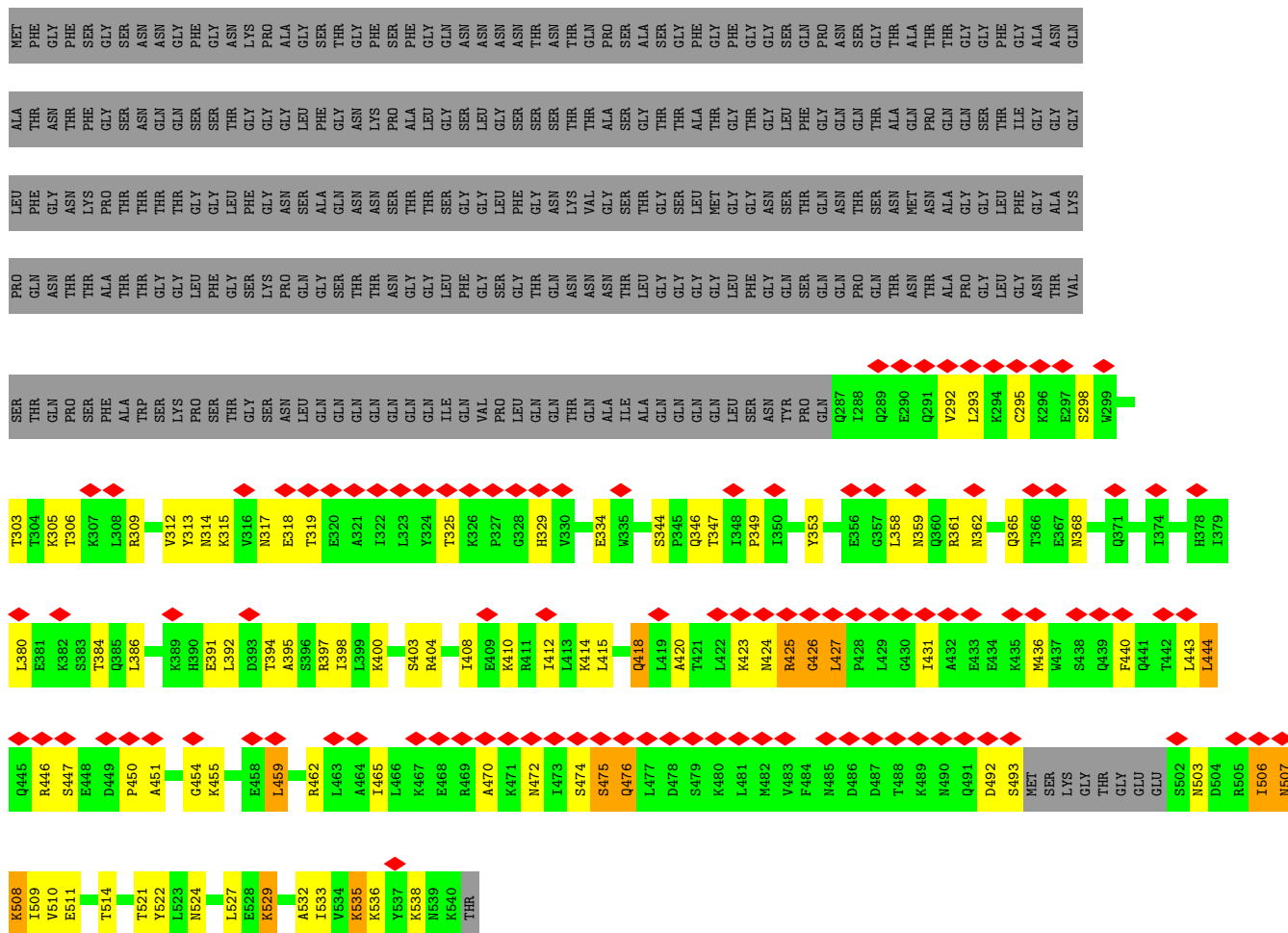


• Molecule 6: Nucleoporin NUP49/NSP49

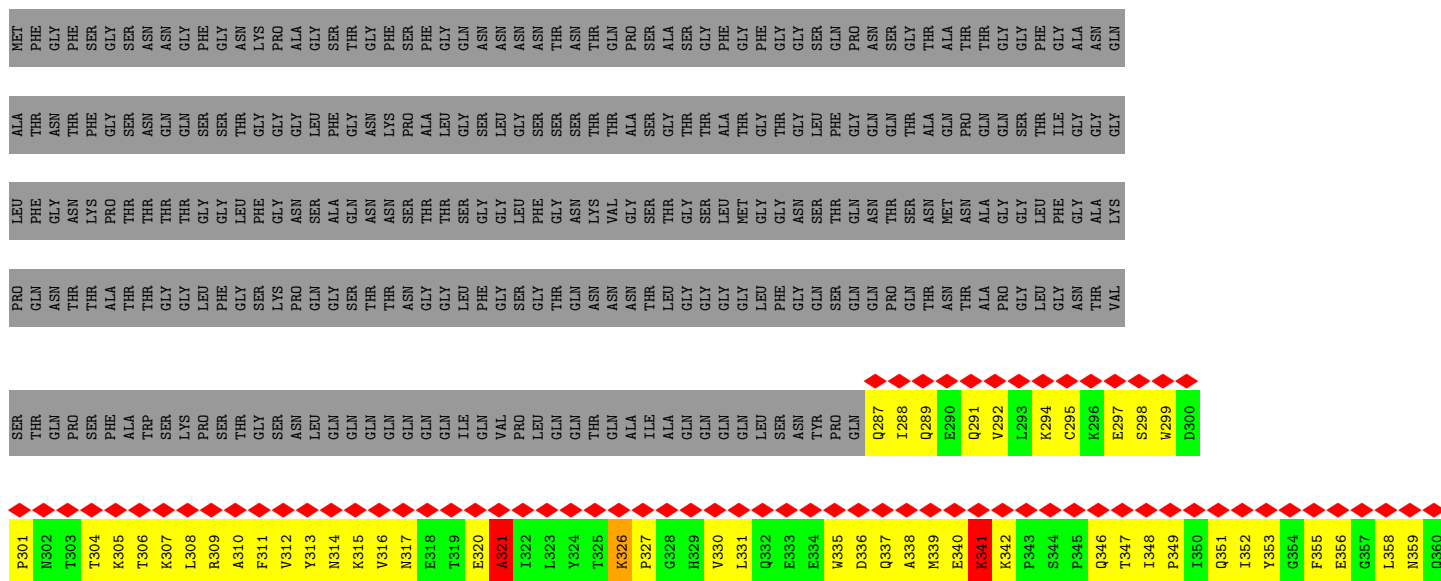


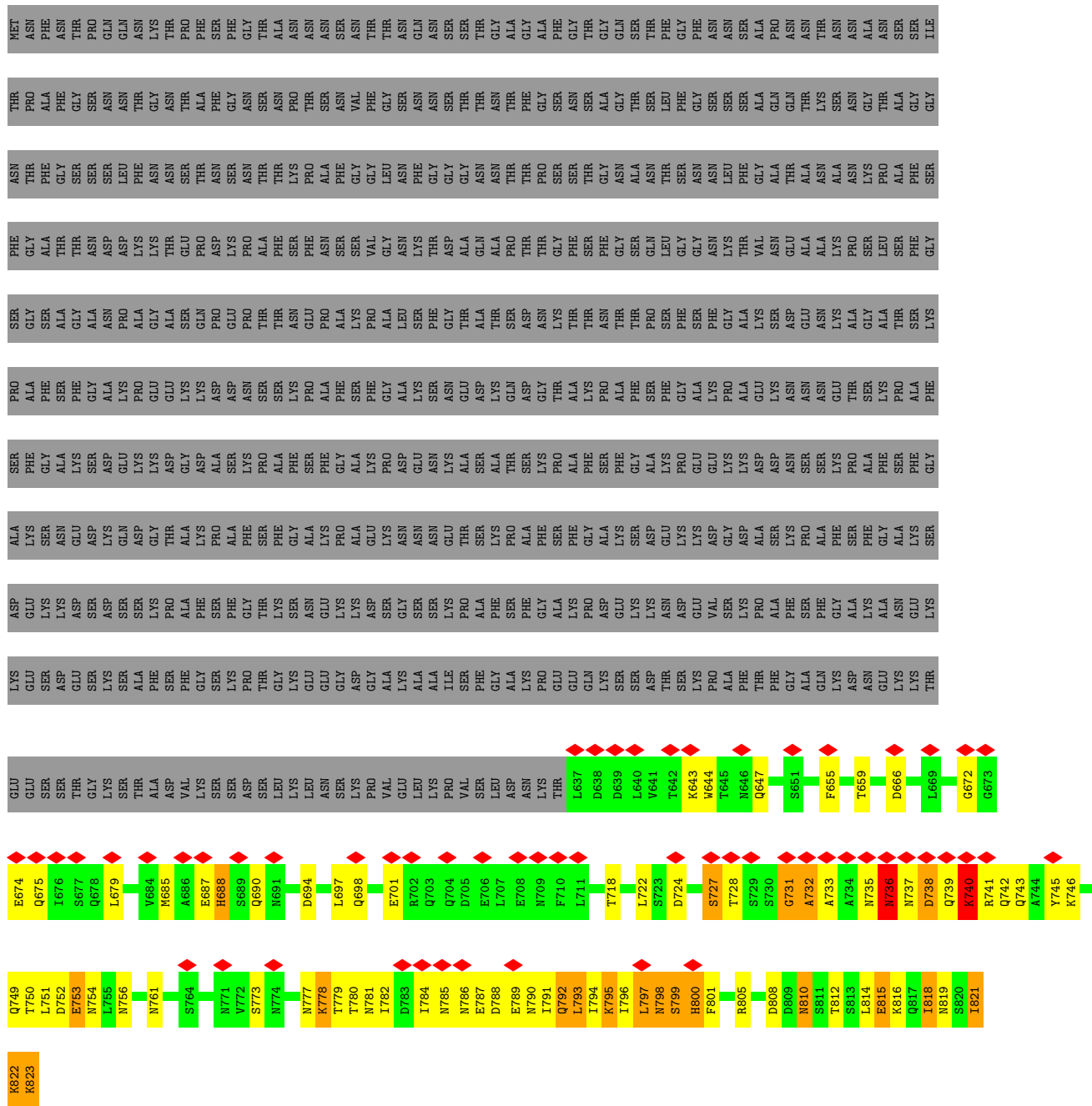
• Molecule 6: Nucleoporin NUP49/NSP49



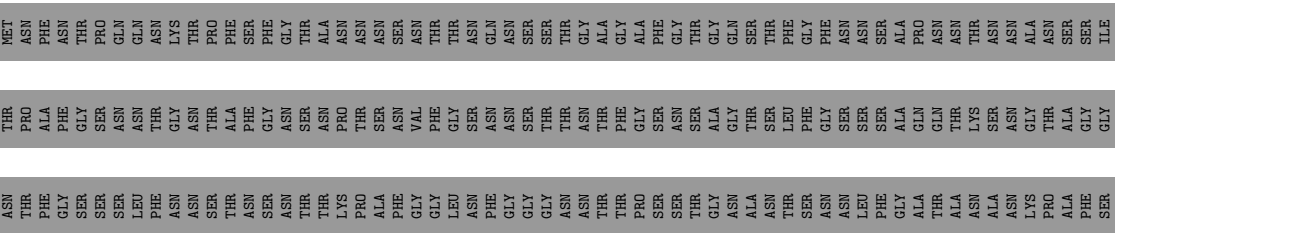


• Molecule 7: Nucleoporin NUP57





Molecule 8: Nucleoporin NSP1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	633134	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	2.483	Depositor
Minimum map value	-1.449	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.048	Depositor
Recommended contour level	0.18	Depositor
Map size (\AA)	467.59998, 467.59998, 467.59998	wwPDB
Map dimensions	350, 350, 350	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.336, 1.336, 1.336	Depositor

5 Model quality i

5.1 Standard geometry i

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	0.37	0/5810	0.59	6/7863 (0.1%)
1	M	0.36	0/5787	0.58	5/7832 (0.1%)
1	N	0.46	0/5852	0.82	9/7931 (0.1%)
1	Z	0.46	0/5853	0.84	11/7931 (0.1%)
2	C	0.66	0/10658	0.90	22/14443 (0.2%)
2	O	0.66	0/10658	0.90	23/14443 (0.2%)
3	D	0.46	0/11182	0.63	5/15160 (0.0%)
3	P	0.46	0/11171	0.63	5/15145 (0.0%)
4	E	0.43	0/12583	0.68	9/17054 (0.1%)
4	Q	0.43	0/12583	0.68	8/17054 (0.0%)
5	F	0.63	5/12443 (0.0%)	1.18	91/16898 (0.5%)
5	R	0.63	5/12443 (0.0%)	1.18	90/16898 (0.5%)
6	G	0.35	0/1553	0.62	0/2104
6	J	0.50	0/1509	1.00	11/2042 (0.5%)
6	S	0.35	0/1549	0.62	0/2100
6	V	0.50	0/1509	1.02	11/2042 (0.5%)
7	H	0.61	2/1832 (0.1%)	0.88	10/2482 (0.4%)
7	K	0.56	1/1829 (0.1%)	0.96	12/2485 (0.5%)
7	T	0.61	2/1832 (0.1%)	0.88	11/2482 (0.4%)
7	W	0.61	1/1826 (0.1%)	1.03	15/2481 (0.6%)
8	I	0.59	0/1431	0.93	4/1940 (0.2%)
8	L	0.40	0/1378	0.74	1/1873 (0.1%)
8	U	0.59	0/1431	0.93	4/1940 (0.2%)
8	X	0.40	0/1378	0.74	1/1873 (0.1%)
All	All	0.53	16/136080 (0.0%)	0.85	364/184496 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	N	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	Z	0	1
5	F	0	4
5	R	0	4
6	G	0	1
6	S	0	1
7	H	0	1
7	K	0	2
7	T	0	1
7	W	0	2
All	All	0	19

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	750	TRP	C-N	10.13	1.53	1.34
5	R	750	TRP	C-N	10.13	1.53	1.34
7	H	427	LEU	C-N	10.05	1.53	1.34
7	T	427	LEU	C-N	10.01	1.53	1.34
7	T	425	ARG	C-N	9.00	1.49	1.33
7	H	425	ARG	C-N	8.93	1.49	1.33
7	W	326	LYS	C-N	8.60	1.50	1.34
7	K	326	LYS	C-N	8.58	1.50	1.34
5	F	1235	ASN	C-N	8.51	1.53	1.34
5	F	1394	SER	C-N	8.48	1.50	1.34
5	R	1235	ASN	C-N	8.47	1.53	1.34
5	R	1394	SER	C-N	8.42	1.50	1.34
5	F	409	MET	C-N	8.26	1.50	1.34
5	R	409	MET	C-N	8.24	1.50	1.34
5	F	356	ILE	C-N	7.38	1.48	1.34
5	R	356	ILE	C-N	7.37	1.48	1.34

All (364) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1090	PRO	CA-N-CD	-37.79	58.60	111.50
5	R	1090	PRO	CA-N-CD	-37.74	58.66	111.50
7	T	425	ARG	C-N-CA	-13.43	94.11	122.30
7	H	425	ARG	C-N-CA	-13.39	94.18	122.30
6	V	388	CYS	CB-CA-C	-12.61	85.19	110.40
5	R	1036	PRO	N-CA-CB	10.88	116.36	103.30
5	F	1036	PRO	N-CA-CB	10.79	116.25	103.30
5	F	1089	ASN	C-N-CD	10.16	149.74	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	1089	ASN	C-N-CD	10.09	149.60	128.40
8	I	800	HIS	CB-CA-C	10.07	130.53	110.40
1	N	772	PRO	CA-N-CD	-10.03	97.45	111.50
8	U	800	HIS	CB-CA-C	10.02	130.44	110.40
1	Z	772	PRO	CA-N-CD	-10.01	97.48	111.50
5	R	1067	ASN	CB-CA-C	-9.88	90.64	110.40
5	F	1067	ASN	CB-CA-C	-9.88	90.65	110.40
2	C	104	ARG	NE-CZ-NH1	9.72	125.16	120.30
2	O	104	ARG	NE-CZ-NH1	9.69	125.14	120.30
5	F	837	TYR	CB-CA-C	9.41	129.22	110.40
5	R	837	TYR	CB-CA-C	9.38	129.16	110.40
5	R	1235	ASN	CA-C-N	9.20	137.44	117.20
5	F	1235	ASN	CA-C-N	9.20	137.43	117.20
5	F	823	PRO	N-CA-C	9.07	135.67	112.10
5	R	823	PRO	N-CA-C	9.06	135.67	112.10
5	R	1089	ASN	CB-CA-C	8.81	128.03	110.40
1	Z	91	GLN	CB-CA-C	-8.78	92.84	110.40
5	F	1089	ASN	CB-CA-C	8.77	127.95	110.40
5	R	711	GLN	CB-CA-C	8.76	127.93	110.40
5	F	711	GLN	CB-CA-C	8.73	127.87	110.40
1	N	91	GLN	CB-CA-C	-8.71	92.98	110.40
1	Z	27	GLU	CB-CA-C	-8.71	92.99	110.40
5	R	1235	ASN	CA-C-O	-8.69	101.86	120.10
5	F	1235	ASN	CA-C-O	-8.67	101.90	120.10
1	Z	30	ASP	CB-CA-C	8.48	127.36	110.40
2	C	268	ARG	NE-CZ-NH1	8.42	124.51	120.30
4	E	51	LEU	CA-CB-CG	8.41	134.64	115.30
4	Q	51	LEU	CA-CB-CG	8.38	134.57	115.30
2	O	268	ARG	NE-CZ-NH1	8.27	124.44	120.30
7	H	476	GLN	CB-CA-C	8.26	126.92	110.40
7	T	476	GLN	CB-CA-C	8.26	126.91	110.40
7	K	450	PRO	N-CA-C	8.25	133.55	112.10
7	W	450	PRO	N-CA-C	8.21	133.44	112.10
5	F	921	PRO	CA-N-CD	-8.17	100.06	111.50
7	W	504	ASP	O-C-N	8.17	135.77	122.70
5	F	1068	ILE	N-CA-C	-8.16	88.96	111.00
5	R	1068	ILE	N-CA-C	-8.16	88.97	111.00
5	R	1056	LEU	CA-CB-CG	8.11	133.95	115.30
5	R	921	PRO	CA-N-CD	-8.09	100.18	111.50
5	F	1056	LEU	CA-CB-CG	8.07	133.86	115.30
6	V	406	PHE	C-N-CA	-8.04	105.41	122.30
6	J	406	PHE	C-N-CA	-8.03	105.43	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	1506	ILE	CG1-CB-CG2	-7.95	93.92	111.40
5	F	1506	ILE	CG1-CB-CG2	-7.93	93.94	111.40
6	J	335	SER	O-C-N	7.90	135.34	122.70
6	V	335	SER	O-C-N	7.79	135.16	122.70
2	O	512	ARG	NE-CZ-NH1	7.77	124.19	120.30
5	R	1090	PRO	N-CA-CB	7.76	112.61	103.30
2	C	512	ARG	NE-CZ-NH1	7.67	124.13	120.30
4	E	262	SER	C-N-CA	7.65	140.83	121.70
5	F	1090	PRO	N-CA-CB	7.62	112.45	103.30
5	R	750	TRP	CA-C-N	7.56	138.27	117.10
5	F	750	TRP	CA-C-N	7.56	138.26	117.10
2	O	1221	ARG	NE-CZ-NH2	7.55	124.07	120.30
2	C	1221	ARG	NE-CZ-NH2	7.54	124.07	120.30
2	C	1130	ARG	NE-CZ-NH1	7.51	124.05	120.30
2	O	1130	ARG	NE-CZ-NH1	7.49	124.04	120.30
5	R	668	ARG	NE-CZ-NH1	7.43	124.02	120.30
2	C	1277	ARG	NE-CZ-NH1	7.41	124.01	120.30
5	F	644	LYS	C-N-CA	7.38	140.15	121.70
5	F	668	ARG	NE-CZ-NH1	7.37	123.99	120.30
5	R	644	LYS	C-N-CA	7.35	140.08	121.70
4	E	759	ASN	CB-CA-C	7.31	125.03	110.40
8	I	736	ASN	CB-CA-C	7.31	125.02	110.40
8	U	736	ASN	CB-CA-C	7.31	125.02	110.40
5	F	935	GLN	N-CA-CB	7.30	123.75	110.60
4	Q	759	ASN	CB-CA-C	7.30	125.00	110.40
7	W	504	ASP	C-N-CA	7.27	139.88	121.70
2	O	1277	ARG	NE-CZ-NH1	7.27	123.93	120.30
5	R	935	GLN	N-CA-CB	7.25	123.66	110.60
5	F	966	LEU	CA-CB-CG	7.20	131.87	115.30
5	R	966	LEU	CA-CB-CG	7.20	131.85	115.30
5	R	1391	GLY	C-N-CA	7.17	139.62	121.70
5	F	1286	PHE	CB-CA-C	7.17	124.74	110.40
5	F	1391	GLY	C-N-CA	7.17	139.62	121.70
5	R	668	ARG	NE-CZ-NH2	-7.17	116.72	120.30
5	R	1286	PHE	CB-CA-C	7.16	124.72	110.40
5	R	1090	PRO	C-N-CA	-7.14	103.85	121.70
5	F	921	PRO	N-CA-CB	-7.12	94.76	103.30
5	F	1090	PRO	C-N-CA	-7.12	103.90	121.70
5	F	668	ARG	NE-CZ-NH2	-7.10	116.75	120.30
5	R	921	PRO	N-CA-CB	-7.09	94.79	103.30
2	C	770	ARG	NE-CZ-NH1	7.09	123.84	120.30
2	O	770	ARG	NE-CZ-NH1	7.07	123.83	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	1090	PRO	CA-CB-CG	-7.06	90.59	104.00
5	R	1164	PHE	CB-CA-C	-7.05	96.30	110.40
1	A	23	ASN	CB-CA-C	7.04	124.47	110.40
3	D	1232	ARG	NE-CZ-NH1	7.03	123.82	120.30
5	F	1164	PHE	CB-CA-C	-7.03	96.35	110.40
5	R	1090	PRO	CA-CB-CG	-7.02	90.66	104.00
5	F	888	PRO	N-CA-C	6.91	130.06	112.10
5	R	888	PRO	N-CA-C	6.87	129.97	112.10
5	F	797	LEU	CA-CB-CG	6.87	131.09	115.30
5	R	1234	GLY	O-C-N	6.86	133.67	122.70
5	R	797	LEU	CA-CB-CG	6.85	131.06	115.30
5	F	1234	GLY	O-C-N	6.84	133.65	122.70
3	P	1232	ARG	NE-CZ-NH1	6.81	123.71	120.30
1	Z	750	GLU	C-N-CA	6.79	138.68	121.70
1	N	750	GLU	C-N-CA	6.78	138.66	121.70
5	F	716	LEU	CA-CB-CG	6.67	130.64	115.30
5	R	716	LEU	CA-CB-CG	6.64	130.57	115.30
4	E	858	LEU	CA-CB-CG	-6.56	100.21	115.30
5	R	1378	ASP	CB-CA-C	6.53	123.47	110.40
2	O	364	ARG	NE-CZ-NH1	6.51	123.56	120.30
4	Q	858	LEU	CA-CB-CG	-6.51	100.33	115.30
5	F	1378	ASP	CB-CA-C	6.50	123.41	110.40
2	C	364	ARG	NE-CZ-NH1	6.48	123.54	120.30
2	O	693	LEU	C-N-CA	6.47	137.89	121.70
3	P	1012	ARG	NE-CZ-NH1	6.47	123.54	120.30
7	H	476	GLN	N-CA-CB	-6.45	98.98	110.60
5	R	1049	LEU	CA-CB-CG	6.45	130.14	115.30
7	T	476	GLN	N-CA-CB	-6.45	99.00	110.60
2	C	693	LEU	C-N-CA	6.42	137.76	121.70
5	F	1049	LEU	CA-CB-CG	6.42	130.06	115.30
7	K	341	LYS	N-CA-C	-6.40	93.71	111.00
4	Q	213	PHE	CB-CA-C	6.39	123.18	110.40
7	W	341	LYS	N-CA-C	-6.39	93.75	111.00
4	E	213	PHE	CB-CA-C	6.38	123.15	110.40
1	N	506	LEU	CA-CB-CG	6.34	129.89	115.30
1	Z	506	LEU	CA-CB-CG	6.32	129.83	115.30
3	D	1012	ARG	NE-CZ-NH1	6.30	123.45	120.30
6	J	335	SER	CA-C-N	-6.29	103.37	117.20
5	F	968	ILE	CG1-CB-CG2	-6.28	97.59	111.40
5	R	968	ILE	CG1-CB-CG2	-6.27	97.60	111.40
5	F	1222	ASN	C-N-CA	6.26	137.35	121.70
5	F	1378	ASP	C-N-CA	6.26	135.45	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	V	335	SER	CA-C-N	-6.26	103.43	117.20
5	R	1378	ASP	C-N-CA	6.25	135.42	122.30
5	F	1408	LEU	CB-CG-CD2	6.24	121.60	111.00
5	R	1061	ASN	CB-CA-C	6.24	122.88	110.40
2	C	727	ARG	NE-CZ-NH2	-6.23	117.19	120.30
5	F	1061	ASN	CB-CA-C	6.22	122.84	110.40
5	R	1222	ASN	C-N-CA	6.21	137.23	121.70
5	R	1408	LEU	CB-CG-CD2	6.20	121.53	111.00
7	W	423	LYS	C-N-CA	6.19	137.17	121.70
7	K	423	LYS	C-N-CA	6.17	137.12	121.70
5	F	1406	TYR	CA-CB-CG	6.16	125.11	113.40
6	V	335	SER	C-N-CA	6.15	137.08	121.70
2	O	718	ARG	NE-CZ-NH1	6.15	123.37	120.30
6	V	406	PHE	CA-C-O	-6.15	107.19	120.10
5	F	935	GLN	CA-C-O	-6.14	107.20	120.10
5	R	1406	TYR	CA-CB-CG	6.14	125.06	113.40
5	F	1080	LEU	CA-CB-CG	6.13	129.41	115.30
6	J	335	SER	C-N-CA	6.13	137.03	121.70
6	J	406	PHE	CA-C-O	-6.13	107.23	120.10
4	E	435	LEU	CA-CB-CG	6.13	129.39	115.30
5	R	935	GLN	CA-C-O	-6.13	107.23	120.10
5	R	1080	LEU	CA-CB-CG	6.12	129.38	115.30
2	C	718	ARG	NE-CZ-NH1	6.11	123.36	120.30
4	Q	435	LEU	CA-CB-CG	6.11	129.35	115.30
5	F	833	THR	CA-C-N	-6.10	103.78	117.20
2	O	727	ARG	NE-CZ-NH2	-6.09	117.25	120.30
2	C	431	ARG	NE-CZ-NH1	6.09	123.34	120.30
7	T	459	LEU	CA-CB-CG	6.09	129.30	115.30
8	I	731	GLY	C-N-CA	6.08	136.90	121.70
5	R	639	LEU	CB-CA-C	6.08	121.75	110.20
8	U	731	GLY	C-N-CA	6.08	136.89	121.70
7	H	459	LEU	CA-CB-CG	6.07	129.26	115.30
2	O	1182	ARG	NE-CZ-NH1	6.06	123.33	120.30
5	R	925	HIS	C-N-CA	6.06	136.85	121.70
5	R	833	THR	CA-C-N	-6.04	103.91	117.20
5	F	344	ILE	C-N-CA	6.04	136.79	121.70
5	F	639	LEU	CB-CA-C	6.02	121.64	110.20
8	X	779	THR	C-N-CA	6.02	136.75	121.70
8	L	779	THR	C-N-CA	6.02	136.74	121.70
1	M	55	GLN	CB-CA-C	6.02	122.43	110.40
5	R	344	ILE	C-N-CA	6.02	136.74	121.70
5	F	793	TYR	CA-CB-CG	6.01	124.82	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	925	HIS	C-N-CA	6.00	136.71	121.70
1	A	55	GLN	CB-CA-C	6.00	122.41	110.40
5	R	1010	LEU	CB-CG-CD2	-6.00	100.81	111.00
7	H	475	SER	O-C-N	6.00	132.29	122.70
7	K	424	ASN	CB-CA-C	5.97	122.35	110.40
5	F	1134	LYS	N-CA-CB	5.97	121.34	110.60
5	R	1134	LYS	N-CA-CB	5.97	121.35	110.60
7	T	475	SER	O-C-N	5.96	132.24	122.70
7	W	424	ASN	CB-CA-C	5.96	122.32	110.40
5	R	793	TYR	CA-CB-CG	5.95	124.70	113.40
6	J	386	ASP	CB-CA-C	5.94	122.28	110.40
5	F	1010	LEU	CB-CG-CD2	-5.93	100.91	111.00
5	F	1234	GLY	CA-C-N	-5.92	104.17	117.20
7	W	446	ARG	CG-CD-NE	-5.92	99.36	111.80
7	K	446	ARG	CG-CD-NE	-5.92	99.36	111.80
5	R	1234	GLY	CA-C-N	-5.91	104.19	117.20
2	O	385	ARG	NE-CZ-NH1	5.91	123.25	120.30
7	K	450	PRO	CB-CA-C	-5.90	97.25	112.00
7	W	450	PRO	CB-CA-C	-5.90	97.26	112.00
3	P	1128	GLN	N-CA-CB	5.88	121.18	110.60
5	F	644	LYS	O-C-N	5.87	132.10	122.70
5	R	750	TRP	O-C-N	-5.87	109.94	121.10
5	R	644	LYS	O-C-N	5.86	132.07	122.70
5	F	750	TRP	O-C-N	-5.86	109.97	121.10
5	R	1090	PRO	N-CD-CG	5.86	111.98	103.20
2	C	1182	ARG	NE-CZ-NH1	5.85	123.23	120.30
7	T	426	GLY	O-C-N	5.84	132.05	122.70
5	F	833	THR	O-C-N	5.83	132.04	122.70
3	D	1128	GLN	N-CA-CB	5.83	121.10	110.60
5	F	865	LEU	CB-CG-CD1	-5.81	101.12	111.00
7	H	426	GLY	O-C-N	5.81	131.99	122.70
5	R	1088	ARG	O-C-N	5.80	131.99	122.70
5	R	833	THR	O-C-N	5.80	131.99	122.70
2	C	385	ARG	NE-CZ-NH1	5.80	123.20	120.30
5	R	865	LEU	CB-CG-CD1	-5.79	101.15	111.00
5	F	1090	PRO	N-CD-CG	5.79	111.88	103.20
7	T	425	ARG	CA-C-O	-5.78	107.95	120.10
5	R	443	ILE	CG1-CB-CG2	-5.78	98.68	111.40
5	F	750	TRP	CA-CB-CG	5.78	124.67	113.70
7	H	425	ARG	CA-C-O	-5.78	107.97	120.10
5	F	443	ILE	CG1-CB-CG2	-5.77	98.70	111.40
5	F	1088	ARG	O-C-N	5.76	131.92	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	R	750	TRP	CA-CB-CG	5.76	124.65	113.70
1	A	114	ARG	N-CA-CB	5.76	120.97	110.60
2	O	431	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	M	114	ARG	N-CA-CB	5.75	120.96	110.60
5	F	186	LEU	CA-CB-CG	5.74	128.50	115.30
1	Z	54	PHE	CB-CA-C	-5.74	98.92	110.40
5	R	186	LEU	CA-CB-CG	5.72	128.46	115.30
5	F	1158	THR	CB-CA-C	5.70	127.00	111.60
1	N	294	MET	CA-CB-CG	5.70	122.98	113.30
1	Z	294	MET	CA-CB-CG	5.69	122.98	113.30
1	N	54	PHE	CB-CA-C	-5.69	99.02	110.40
5	R	1158	THR	CB-CA-C	5.68	126.95	111.60
2	C	718	ARG	NE-CZ-NH2	-5.68	117.46	120.30
5	R	833	THR	C-N-CA	5.67	135.87	121.70
2	O	718	ARG	NE-CZ-NH2	-5.66	117.47	120.30
7	H	427	LEU	CA-C-N	5.65	132.93	117.10
5	F	833	THR	C-N-CA	5.65	135.83	121.70
5	F	1075	LEU	CB-CG-CD1	-5.65	101.39	111.00
1	M	54	PHE	CB-CA-C	-5.65	99.10	110.40
5	R	1075	LEU	CB-CG-CD1	-5.65	101.40	111.00
1	Z	283	LEU	CA-CB-CG	5.64	128.28	115.30
1	N	283	LEU	CA-CB-CG	5.64	128.27	115.30
7	T	427	LEU	CA-C-N	5.62	132.84	117.10
7	W	518	ARG	CB-CA-C	5.62	121.64	110.40
5	R	1116	VAL	CG1-CB-CG2	-5.62	101.91	110.90
5	F	366	ILE	C-N-CA	5.60	135.70	121.70
5	R	1401	LEU	CB-CG-CD2	5.60	120.52	111.00
1	A	54	PHE	CB-CA-C	-5.59	99.21	110.40
5	R	77	LEU	CA-CB-CG	5.59	128.16	115.30
5	R	366	ILE	C-N-CA	5.56	135.60	121.70
5	F	1116	VAL	CG1-CB-CG2	-5.56	102.01	110.90
5	F	77	LEU	CA-CB-CG	5.55	128.08	115.30
5	F	1401	LEU	CB-CG-CD2	5.55	120.43	111.00
7	K	320	GLU	C-N-CA	5.54	135.54	121.70
4	E	1384	ASP	CB-CA-C	5.53	121.47	110.40
1	A	43	GLN	O-C-N	-5.53	113.85	122.70
4	Q	1384	ASP	CB-CA-C	5.52	121.44	110.40
5	F	889	ILE	CA-C-N	5.51	129.33	117.20
7	W	320	GLU	C-N-CA	5.51	135.47	121.70
5	F	1188	THR	C-N-CA	5.51	135.47	121.70
5	F	1314	VAL	N-CA-C	5.50	125.84	111.00
5	R	1314	VAL	N-CA-C	5.50	125.84	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	803	ALA	N-CA-CB	5.49	117.79	110.10
5	F	193	LEU	CA-CB-CG	5.48	127.91	115.30
5	R	1188	THR	C-N-CA	5.48	135.40	121.70
2	O	1198	ARG	NE-CZ-NH1	5.47	123.04	120.30
5	R	193	LEU	CA-CB-CG	5.47	127.88	115.30
5	R	889	ILE	CA-C-N	5.46	129.22	117.20
7	K	413	LEU	CA-CB-CG	5.46	127.87	115.30
6	V	380	TYR	CB-CA-C	5.46	121.31	110.40
5	R	803	ALA	N-CA-CB	5.46	117.74	110.10
7	W	413	LEU	CA-CB-CG	5.45	127.84	115.30
5	F	356	ILE	C-N-CA	5.44	144.86	122.00
3	P	1284	ARG	NE-CZ-NH1	5.44	123.02	120.30
5	R	903	ASN	C-N-CA	5.44	135.30	121.70
5	R	356	ILE	C-N-CA	5.44	144.84	122.00
2	C	104	ARG	NE-CZ-NH2	-5.43	117.58	120.30
5	F	803	ALA	C-N-CA	-5.43	108.11	121.70
5	F	903	ASN	C-N-CA	5.43	135.28	121.70
1	M	43	GLN	O-C-N	-5.43	114.02	122.70
2	C	1198	ARG	NE-CZ-NH1	5.41	123.01	120.30
6	J	380	TYR	CB-CA-C	5.39	121.19	110.40
5	F	1075	LEU	CA-CB-CG	5.39	127.70	115.30
5	F	1382	TYR	CB-CG-CD1	5.39	124.23	121.00
5	R	803	ALA	C-N-CA	-5.39	108.22	121.70
1	M	43	GLN	C-N-CA	-5.37	108.28	121.70
7	W	452	GLY	C-N-CA	5.37	135.12	121.70
5	R	781	LEU	CA-CB-CG	5.37	127.64	115.30
5	R	1075	LEU	CA-CB-CG	5.36	127.63	115.30
5	F	781	LEU	CA-CB-CG	5.35	127.61	115.30
7	T	444	LEU	CA-CB-CG	5.35	127.61	115.30
7	K	452	GLY	C-N-CA	5.35	135.07	121.70
5	R	827	ILE	C-N-CA	5.34	135.06	121.70
1	A	43	GLN	C-N-CA	-5.33	108.38	121.70
6	V	370	ASP	CA-CB-CG	5.32	125.10	113.40
5	R	1160	TYR	CB-CG-CD2	5.31	124.19	121.00
6	J	370	ASP	CA-CB-CG	5.31	125.09	113.40
7	W	431	ILE	C-N-CA	-5.30	108.44	121.70
7	K	451	ALA	N-CA-C	5.30	125.32	111.00
5	F	827	ILE	C-N-CA	5.30	134.95	121.70
5	F	1010	LEU	CA-CB-CG	5.30	127.49	115.30
7	H	444	LEU	CA-CB-CG	5.30	127.48	115.30
4	Q	212	TRP	O-C-N	5.29	131.17	122.70
5	R	1010	LEU	CA-CB-CG	5.29	127.47	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	W	451	ALA	N-CA-C	5.29	125.27	111.00
5	R	345	ARG	N-CA-CB	5.28	120.11	110.60
1	Z	642	LEU	CA-CB-CG	5.28	127.44	115.30
7	K	431	ILE	C-N-CA	-5.28	108.51	121.70
2	O	1240	ARG	NE-CZ-NH1	5.27	122.94	120.30
5	F	1160	TYR	CB-CG-CD2	5.27	124.16	121.00
1	N	642	LEU	CA-CB-CG	5.27	127.41	115.30
4	E	212	TRP	O-C-N	5.26	131.12	122.70
4	E	585	ASP	CB-CG-OD2	5.26	123.03	118.30
5	F	345	ARG	N-CA-CB	5.25	120.06	110.60
2	C	708	ARG	NE-CZ-NH1	5.25	122.92	120.30
8	U	753	GLU	CB-CA-C	-5.24	99.93	110.40
8	I	753	GLU	CB-CA-C	-5.22	99.96	110.40
5	R	1208	GLU	N-CA-C	-5.21	96.92	111.00
5	F	108	LEU	CA-CB-CG	5.21	127.29	115.30
2	O	708	ARG	NE-CZ-NH1	5.21	122.91	120.30
5	R	108	LEU	CA-CB-CG	5.21	127.28	115.30
5	F	1208	GLU	N-CA-C	-5.21	96.94	111.00
2	C	1386	ARG	NE-CZ-NH1	5.20	122.90	120.30
6	V	380	TYR	CB-CG-CD1	-5.20	117.88	121.00
7	W	321	ALA	N-CA-CB	5.20	117.37	110.10
2	O	104	ARG	NE-CZ-NH2	-5.18	117.71	120.30
3	D	1284	ARG	NE-CZ-NH1	5.17	122.89	120.30
2	O	1386	ARG	NE-CZ-NH1	5.17	122.88	120.30
5	F	597	LEU	CA-CB-CG	5.16	127.17	115.30
4	Q	585	ASP	CB-CG-OD2	5.16	122.94	118.30
5	R	675	LEU	CA-CB-CG	5.15	127.14	115.30
7	H	506	ILE	C-N-CA	5.15	134.57	121.70
5	F	675	LEU	CA-CB-CG	5.15	127.14	115.30
2	O	1057	TYR	CB-CG-CD2	-5.15	117.91	121.00
7	T	506	ILE	C-N-CA	5.14	134.56	121.70
2	C	749	ARG	NE-CZ-NH1	5.14	122.87	120.30
6	J	380	TYR	CB-CG-CD1	-5.14	117.92	121.00
7	K	321	ALA	N-CA-CB	5.14	117.30	110.10
5	R	1382	TYR	CB-CG-CD1	5.14	124.08	121.00
5	R	1185	ILE	O-C-N	-5.14	114.48	122.70
3	P	528	PRO	CA-N-CD	-5.13	104.32	111.50
5	R	597	LEU	CA-CB-CG	5.13	127.09	115.30
5	F	1088	ARG	NE-CZ-NH1	-5.12	117.74	120.30
5	R	1088	ARG	NE-CZ-NH1	-5.11	117.74	120.30
2	O	749	ARG	NE-CZ-NH1	5.11	122.86	120.30
2	C	1057	TYR	CB-CG-CD2	-5.10	117.94	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	562	LEU	CA-CB-CG	5.10	127.03	115.30
5	F	1087	CYS	CA-CB-SG	5.10	123.18	114.00
5	R	880	GLU	CB-CA-C	-5.08	100.23	110.40
5	R	562	LEU	CA-CB-CG	5.08	126.98	115.30
5	F	1185	ILE	O-C-N	-5.08	114.58	122.70
2	C	386	ARG	NE-CZ-NH1	5.07	122.84	120.30
3	D	528	PRO	CA-N-CD	-5.07	104.40	111.50
5	R	1087	CYS	CA-CB-SG	5.07	123.13	114.00
1	N	751	LEU	N-CA-CB	-5.07	100.26	110.40
1	Z	751	LEU	N-CA-CB	-5.07	100.26	110.40
5	F	880	GLU	CB-CA-C	-5.07	100.26	110.40
6	V	373	PHE	N-CA-CB	5.06	119.70	110.60
6	J	370	ASP	CB-CA-C	5.05	120.51	110.40
5	R	1183	TYR	C-N-CA	-5.03	109.13	121.70
6	J	373	PHE	N-CA-CB	5.03	119.64	110.60
6	V	370	ASP	CB-CA-C	5.02	120.45	110.40
2	O	727	ARG	NE-CZ-NH1	5.02	122.81	120.30
5	F	1183	TYR	C-N-CA	-5.02	109.15	121.70
7	T	535	LYS	CB-CA-C	5.01	120.42	110.40
5	F	240	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (19) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
5	F	1185	ILE	Mainchain
5	F	1188	THR	Mainchain
5	F	360	LEU	Mainchain
5	F	814	ASN	Mainchain
6	G	422	GLY	Mainchain
7	H	509	ILE	Mainchain
7	K	380	LEU	Mainchain
7	K	488	THR	Mainchain
1	N	249	ARG	Mainchain
1	N	748	SER	Mainchain
5	R	1185	ILE	Mainchain
5	R	1188	THR	Mainchain
5	R	360	LEU	Mainchain
5	R	814	ASN	Mainchain
6	S	422	GLY	Mainchain
7	T	509	ILE	Mainchain
7	W	380	LEU	Mainchain

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Mol	Chain	Res	Type	Group
7	W	488	THR	Mainchain
1	Z	748	SER	Mainchain

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	5720	0	5578	305	0
1	M	5697	0	5563	302	0
1	N	5766	0	5590	494	0
1	Z	5767	0	5596	531	0
2	C	10452	0	10392	51	0
2	O	10452	0	10392	50	0
3	D	10966	0	10812	459	0
3	P	10956	0	10803	473	0
4	E	12362	0	12566	356	0
4	Q	12362	0	12566	336	0
5	F	12239	0	11567	842	0
5	R	12239	0	11568	850	0
6	G	1533	0	1515	124	0
6	J	1492	0	1465	287	0
6	S	1529	0	1504	112	0
6	V	1492	0	1465	323	0
7	H	1811	0	1697	146	0
7	K	1808	0	1614	306	0
7	T	1811	0	1697	152	0
7	W	1805	0	1605	321	0
8	I	1418	0	1293	168	0
8	L	1366	0	1211	160	0
8	U	1418	0	1293	168	0
8	X	1366	0	1211	145	0
All	All	133827	0	130563	6256	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 24.

All (6256) 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:N:810:ALA:CB	1:N:836:ASP:HA	1.26	1.63
6:G:451:MET:CE	1:M:14:THR:HG21	1.19	1.62
1:A:15:SER:HB2	6:S:447:PHE:CZ	1.35	1.61
3:D:955:PRO:CB	3:D:994:SER:CB	1.78	1.61
5:R:1357:ALA:HB2	5:R:1381:LEU:CB	1.19	1.60
1:Z:810:ALA:CB	1:Z:836:ASP:HA	1.26	1.59
3:P:955:PRO:CB	3:P:994:SER:CB	1.78	1.58
5:R:841:PHE:CD2	5:R:918:PHE:HE1	1.21	1.57
7:H:522:TYR:CB	1:Z:54:PHE:CB	1.82	1.57
5:F:841:PHE:CD2	5:F:918:PHE:HE1	1.21	1.56
1:N:54:PHE:CB	7:T:522:TYR:CB	1.82	1.55
5:R:376:ASN:CB	5:R:381:THR:CA	1.82	1.55
5:F:1357:ALA:HB2	5:F:1381:LEU:CB	1.19	1.55
5:F:376:ASN:CB	5:F:381:THR:CA	1.83	1.53
3:P:1140:LYS:NZ	1:Z:204:GLU:HA	1.24	1.53
6:J:325:TYR:CE2	7:K:390:HIS:HA	1.44	1.52
7:K:538:LYS:HA	8:L:822:LYS:CB	1.10	1.52
6:J:383:LYS:NZ	8:L:756:ASN:CA	1.73	1.51
6:V:325:TYR:CE2	7:W:390:HIS:HA	1.45	1.49
7:H:420:ALA:HB1	8:I:745:TYR:CE1	1.49	1.47
6:V:383:LYS:NZ	8:X:756:ASN:CA	1.73	1.46
1:N:245:ALA:HB2	1:N:250:ASN:CB	1.43	1.46
1:N:753:ALA:HB1	1:N:815:ILE:C	1.35	1.45
6:V:357:LEU:HB3	7:W:423:LYS:CE	1.46	1.45
1:Z:252:GLN:OE1	1:Z:498:PHE:CE2	1.70	1.45
6:J:357:LEU:HB3	7:K:423:LYS:CE	1.46	1.44
7:H:418:GLN:NE2	8:I:718:THR:CG2	1.81	1.44
1:A:772:PRO:CB	1:A:828:THR:HG21	1.47	1.43
6:S:404:ASP:CB	6:S:425:GLU:CB	1.97	1.43
7:W:389:LYS:HA	7:W:393:ASP:CB	1.49	1.43
7:T:420:ALA:HB1	8:U:745:TYR:CE1	1.49	1.43
7:W:389:LYS:CA	7:W:393:ASP:HB3	1.49	1.43
7:K:483:VAL:O	7:K:492:ASP:CB	1.66	1.42
1:Z:753:ALA:HB1	1:Z:815:ILE:C	1.35	1.42
7:T:418:GLN:NE2	8:U:718:THR:CG2	1.81	1.42
7:K:321:ALA:CA	7:K:348:ILE:HD11	1.50	1.42
7:W:483:VAL:O	7:W:492:ASP:CB	1.66	1.41
3:D:1140:LYS:NZ	1:N:204:GLU:HA	1.28	1.41
3:D:920:GLU:CB	1:N:294:MET:HG2	1.51	1.41
1:N:757:ALA:CB	1:N:819:MET:O	1.68	1.41
1:M:772:PRO:CB	1:M:828:THR:HG21	1.47	1.40
1:Z:757:ALA:CB	1:Z:819:MET:O	1.68	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:SER:CB	6:S:447:PHE:CE2	2.04	1.40
6:G:404:ASP:CB	6:G:425:GLU:CB	1.97	1.39
8:I:818:ILE:O	8:I:821:ILE:CG2	1.68	1.39
1:Z:746:PRO:CB	1:Z:753:ALA:HA	1.52	1.39
1:A:15:SER:CB	6:S:447:PHE:CZ	2.05	1.39
5:R:1353:LEU:CB	5:R:1384:LEU:CB	2.01	1.39
8:U:818:ILE:O	8:U:821:ILE:CG2	1.68	1.39
7:K:389:LYS:HA	7:K:393:ASP:CB	1.49	1.38
3:P:1136:ASP:CB	1:Z:203:ASN:O	1.67	1.38
5:F:841:PHE:CD2	5:F:918:PHE:CE1	2.11	1.38
5:F:1353:LEU:CB	5:F:1384:LEU:CB	2.01	1.38
3:P:920:GLU:CB	1:Z:294:MET:HG2	1.54	1.38
5:F:1116:VAL:HG11	5:F:1150:PHE:CE2	1.58	1.38
7:K:389:LYS:CA	7:K:393:ASP:HB3	1.49	1.38
1:N:810:ALA:CB	1:N:836:ASP:CA	2.02	1.38
5:R:1116:VAL:HG11	5:R:1150:PHE:CE2	1.58	1.38
7:W:321:ALA:CA	7:W:348:ILE:HD11	1.50	1.38
1:N:746:PRO:CB	1:N:753:ALA:HA	1.52	1.37
5:R:228:PHE:H	5:R:361:LEU:CB	1.37	1.37
5:R:841:PHE:CD2	5:R:918:PHE:CE1	2.11	1.37
1:A:15:SER:HB3	6:S:447:PHE:CE2	1.58	1.37
4:E:1022:TYR:CE2	4:E:1026:THR:HG21	1.60	1.37
7:K:483:VAL:CB	7:K:493:SER:O	1.72	1.36
7:W:483:VAL:CB	7:W:493:SER:O	1.72	1.36
5:R:376:ASN:CB	5:R:381:THR:HA	0.88	1.36
5:F:334:GLN:NE2	5:F:859:LYS:NZ	1.73	1.35
1:N:49:LEU:CD1	6:S:331:LYS:HE2	1.56	1.35
1:A:128:LEU:HD22	4:E:1260:TYR:CE2	1.61	1.35
6:J:388:CYS:CB	7:K:455:LYS:HD2	1.52	1.35
3:D:1134:SER:O	1:N:206:ASN:ND2	1.58	1.35
1:Z:810:ALA:CB	1:Z:836:ASP:CA	2.02	1.35
6:J:383:LYS:NZ	8:L:756:ASN:HA	1.03	1.35
7:K:538:LYS:CA	8:L:822:LYS:CB	2.01	1.35
5:F:228:PHE:H	5:F:361:LEU:CB	1.37	1.35
5:F:1227:THR:CB	7:H:475:SER:OG	1.74	1.35
5:R:334:GLN:NE2	5:R:859:LYS:HZ2	1.20	1.35
5:F:334:GLN:HE21	5:F:859:LYS:NZ	1.24	1.34
5:F:376:ASN:CB	5:F:381:THR:HA	0.88	1.34
5:F:1357:ALA:CB	5:F:1381:LEU:CB	2.05	1.34
1:M:128:LEU:HD22	4:Q:1260:TYR:CE2	1.61	1.34
6:V:383:LYS:NZ	8:X:756:ASN:HA	1.03	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1022:TYR:CE2	4:Q:1026:THR:HG21	1.60	1.34
5:F:902:LYS:HE2	7:H:414:LYS:CD	1.58	1.34
5:R:1227:THR:CB	7:T:475:SER:OG	1.74	1.34
5:F:1633:TYR:CE2	5:F:1635:ARG:HB2	1.63	1.33
6:G:331:LYS:HE2	1:Z:49:LEU:CD1	1.56	1.33
5:R:1357:ALA:CB	5:R:1381:LEU:CB	2.05	1.33
5:R:334:GLN:HG3	5:R:854:GLU:OE2	1.25	1.33
5:R:334:GLN:HE21	5:R:859:LYS:NZ	1.24	1.33
6:J:388:CYS:HB2	7:K:455:LYS:CD	1.59	1.33
5:R:334:GLN:NE2	5:R:859:LYS:NZ	1.73	1.33
5:R:902:LYS:HE2	7:T:414:LYS:CD	1.58	1.32
5:R:1084:LEU:HA	5:R:1156:TYR:OH	1.29	1.32
5:F:1561:LEU:CD2	5:R:1667:VAL:HG21	1.58	1.32
7:H:418:GLN:HE21	8:I:718:THR:CG2	1.38	1.31
1:Z:810:ALA:HB1	1:Z:836:ASP:CA	1.57	1.31
5:R:1633:TYR:CE2	5:R:1635:ARG:HB2	1.63	1.31
5:F:334:GLN:HG3	5:F:854:GLU:OE2	1.24	1.30
1:N:810:ALA:HB3	1:N:836:ASP:O	1.30	1.30
1:A:43:GLN:O	1:A:44:VAL:CB	1.68	1.30
6:V:357:LEU:CB	7:W:423:LYS:HE3	1.61	1.30
6:V:400:GLY:O	6:V:403:THR:HG22	1.21	1.30
5:R:902:LYS:CE	7:T:414:LYS:HD2	1.62	1.30
5:F:902:LYS:CE	7:H:414:LYS:HD2	1.62	1.29
3:P:1140:LYS:HZ2	1:Z:204:GLU:CA	1.44	1.29
5:F:1116:VAL:HG11	5:F:1150:PHE:CZ	1.68	1.29
1:M:43:GLN:O	1:M:44:VAL:CB	1.68	1.29
1:M:128:LEU:HD22	4:Q:1260:TYR:CD2	1.67	1.29
1:M:140:ILE:CG2	4:Q:1393:LYS:HD3	1.62	1.29
7:T:418:GLN:HE21	8:U:718:THR:CG2	1.38	1.29
8:X:775:THR:O	8:X:779:THR:CB	1.78	1.29
1:A:140:ILE:CG2	4:E:1393:LYS:HD3	1.62	1.28
5:R:1116:VAL:HG11	5:R:1150:PHE:CZ	1.68	1.28
6:J:357:LEU:CB	7:K:423:LYS:HE3	1.60	1.28
7:K:321:ALA:N	7:K:348:ILE:HD11	1.47	1.28
1:M:128:LEU:HD13	4:Q:1260:TYR:CZ	1.67	1.28
1:N:207:ILE:CD1	1:N:247:GLY:HA3	1.61	1.28
8:L:775:THR:O	8:L:779:THR:CB	1.78	1.28
7:W:321:ALA:N	7:W:348:ILE:HD11	1.47	1.28
1:A:128:LEU:HD13	4:E:1260:TYR:CZ	1.67	1.28
6:V:383:LYS:HZ1	8:X:756:ASN:CA	1.39	1.28
5:F:675:LEU:O	5:F:679:ILE:HG12	1.13	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:333:ILE:O	6:J:336:PHE:CB	1.82	1.27
1:N:753:ALA:CB	1:N:815:ILE:C	2.02	1.27
3:P:242:MET:SD	3:P:298:TYR:CE2	2.28	1.27
1:A:128:LEU:HD22	4:E:1260:TYR:CD2	1.68	1.27
3:D:242:MET:SD	3:D:298:TYR:CE2	2.28	1.27
1:Z:810:ALA:HB3	1:Z:836:ASP:O	1.30	1.27
1:N:810:ALA:HB1	1:N:836:ASP:CA	1.57	1.27
5:F:1084:LEU:HA	5:F:1156:TYR:OH	1.29	1.26
6:V:333:ILE:O	6:V:336:PHE:CB	1.82	1.26
7:H:418:GLN:NE2	8:I:718:THR:HG23	1.42	1.26
1:A:59:LYS:C	8:L:807:LEU:CB	2.03	1.26
1:M:59:LYS:C	8:X:807:LEU:CB	2.03	1.26
1:Z:753:ALA:CB	1:Z:815:ILE:C	2.02	1.26
7:K:321:ALA:HA	7:K:348:ILE:CG1	1.65	1.25
7:W:321:ALA:HA	7:W:348:ILE:CG1	1.65	1.25
6:J:383:LYS:NZ	8:L:756:ASN:CG	1.89	1.24
1:N:746:PRO:CB	1:N:816:TYR:CB	2.16	1.24
1:A:772:PRO:HB3	1:A:828:THR:CG2	1.68	1.23
1:N:753:ALA:HB1	1:N:816:TYR:N	1.54	1.23
5:R:675:LEU:O	5:R:679:ILE:HG12	1.13	1.23
6:G:451:MET:CE	1:M:14:THR:CG2	2.15	1.23
6:V:383:LYS:NZ	8:X:756:ASN:CG	1.89	1.23
6:G:431:GLN:HA	7:H:503:ASN:CB	1.67	1.23
6:V:390:ILE:O	6:V:394:ILE:HG23	1.37	1.23
1:Z:746:PRO:CB	1:Z:816:TYR:CB	2.16	1.23
5:F:800:ILE:HG12	5:F:885:GLU:OE1	1.37	1.23
6:V:463:LYS:HG2	7:W:530:ASP:OD2	1.06	1.22
1:N:252:GLN:OE1	1:N:498:PHE:HD2	1.20	1.22
6:G:327:LYS:NZ	1:Z:46:ILE:HB	1.54	1.22
6:S:431:GLN:HA	7:T:503:ASN:CB	1.67	1.22
1:N:824:MET:HG2	1:N:825:PRO:CD	1.70	1.22
1:M:772:PRO:HB3	1:M:828:THR:CG2	1.68	1.21
6:V:400:GLY:O	6:V:403:THR:CG2	1.87	1.21
1:Z:753:ALA:HB1	1:Z:816:TYR:N	1.54	1.21
5:F:1129:ASN:ND2	5:F:1132:GLU:HB3	1.55	1.21
1:N:46:ILE:HB	6:S:327:LYS:NZ	1.54	1.21
3:P:1136:ASP:OD2	1:Z:203:ASN:O	1.57	1.21
5:R:800:ILE:HG12	5:R:885:GLU:OE1	1.37	1.21
1:M:814:MET:HG3	1:M:833:ILE:CD1	1.71	1.20
3:P:1020:ASN:CB	1:Z:251:ALA:HB3	1.71	1.20
6:J:383:LYS:HZ1	8:L:756:ASN:CA	1.39	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:824:MET:HG2	1:Z:825:PRO:CD	1.70	1.20
7:T:418:GLN:NE2	8:U:718:THR:HG23	1.42	1.20
1:Z:807:LYS:HA	1:Z:836:ASP:O	1.41	1.20
4:E:1022:TYR:CE2	4:E:1026:THR:CG2	2.25	1.19
5:F:800:ILE:CG1	5:F:885:GLU:OE1	1.90	1.19
8:U:773:SER:O	8:U:777:ASN:CB	1.90	1.19
3:D:1244:ASN:CB	1:Z:826:ARG:CB	2.21	1.19
4:Q:1022:TYR:CD2	4:Q:1026:THR:HG21	1.76	1.19
5:R:800:ILE:CG1	5:R:885:GLU:OE1	1.90	1.19
1:N:826:ARG:CB	3:P:1244:ASN:CB	2.21	1.19
4:Q:1022:TYR:CE2	4:Q:1026:THR:CG2	2.25	1.19
1:A:814:MET:HG3	1:A:833:ILE:CD1	1.72	1.18
4:E:1022:TYR:CD2	4:E:1026:THR:HG21	1.76	1.18
7:H:418:GLN:NE2	8:I:718:THR:HG21	1.55	1.18
5:R:1129:ASN:ND2	5:R:1132:GLU:HB3	1.55	1.18
6:V:398:VAL:HG21	7:W:462:ARG:O	1.41	1.18
5:R:1529:ALA:HB2	5:R:1611:VAL:HG13	1.22	1.18
6:J:364:ILE:HA	7:K:424:ASN:ND2	1.55	1.18
8:I:773:SER:O	8:I:777:ASN:CB	1.90	1.18
1:N:807:LYS:HA	1:N:836:ASP:O	1.41	1.18
3:P:920:GLU:CB	1:Z:294:MET:CG	2.21	1.18
3:D:920:GLU:CB	1:N:294:MET:CG	2.21	1.17
6:S:430:LEU:CB	8:U:780:THR:HA	1.74	1.17
1:M:28:SER:CB	1:Z:23:ASN:HA	1.74	1.17
6:V:364:ILE:HA	7:W:424:ASN:ND2	1.55	1.17
6:V:383:LYS:NZ	8:X:756:ASN:CB	2.07	1.17
1:Z:252:GLN:OE1	1:Z:498:PHE:HE2	0.86	1.17
4:E:1309:ARG:O	4:E:1313:ARG:HG3	1.45	1.17
6:G:430:LEU:CB	8:I:780:THR:HA	1.74	1.17
1:Z:757:ALA:HB2	1:Z:819:MET:C	1.64	1.17
3:D:1134:SER:O	1:N:206:ASN:CG	1.67	1.16
6:J:383:LYS:NZ	8:L:756:ASN:CB	2.07	1.16
4:Q:1309:ARG:O	4:Q:1313:ARG:HG3	1.45	1.16
8:I:810:ASN:OD1	1:Z:59:LYS:CB	1.94	1.16
1:M:783:SER:HA	1:M:839:LEU:HA	1.26	1.16
3:D:1140:LYS:HZ2	1:N:204:GLU:CA	1.57	1.16
3:P:1020:ASN:OD1	1:Z:252:GLN:HG2	1.41	1.16
7:W:446:ARG:HH22	7:W:455:LYS:NZ	1.44	1.16
3:D:1238:ARG:HA	1:Z:830:SER:HB3	1.28	1.15
1:N:757:ALA:HB2	1:N:819:MET:C	1.64	1.15
7:H:425:ARG:C	7:H:427:LEU:H	1.48	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:814:MET:CB	1:Z:833:ILE:HD13	1.76	1.15
7:K:444:LEU:O	7:K:447:SER:CB	1.95	1.15
3:P:1136:ASP:CG	1:Z:203:ASN:O	1.83	1.15
5:F:354:ARG:HB2	5:F:356:ILE:HG22	1.28	1.14
7:K:446:ARG:HH22	7:K:455:LYS:NZ	1.44	1.14
1:N:59:LYS:CB	8:U:810:ASN:OD1	1.94	1.14
1:N:814:MET:CB	1:N:833:ILE:HD13	1.76	1.14
6:V:380:TYR:HE2	8:X:751:LEU:HD21	1.08	1.14
7:W:444:LEU:O	7:W:447:SER:CB	1.95	1.14
7:T:425:ARG:C	7:T:427:LEU:H	1.48	1.14
5:F:1529:ALA:HB2	5:F:1611:VAL:HG13	1.21	1.14
7:W:336:ASP:O	7:W:340:GLU:HB2	1.48	1.14
6:V:431:GLN:HA	7:W:500:GLU:H	1.10	1.14
5:R:841:PHE:HD2	5:R:918:PHE:CE1	1.55	1.13
1:N:753:ALA:CB	1:N:816:TYR:N	2.11	1.13
3:D:1137:ASP:CB	1:N:205:ASN:CB	2.26	1.13
1:Z:753:ALA:CB	1:Z:816:TYR:N	2.11	1.13
5:F:675:LEU:O	5:F:679:ILE:CG1	1.96	1.13
5:R:675:LEU:O	5:R:679:ILE:CG1	1.96	1.13
1:A:775:LEU:HB3	1:A:832:LEU:CD1	1.79	1.13
5:F:1558:ASP:O	5:R:1681:ASN:CB	1.97	1.12
7:K:336:ASP:O	7:K:340:GLU:HB2	1.48	1.12
1:M:775:LEU:HB3	1:M:832:LEU:CD1	1.79	1.12
5:R:690:GLU:CD	8:U:722:LEU:HD21	1.69	1.12
6:V:398:VAL:CG2	7:W:466:LEU:CD1	2.26	1.12
1:N:46:ILE:HB	6:S:327:LYS:HZ3	0.96	1.12
1:N:810:ALA:HB3	1:N:836:ASP:C	1.69	1.12
5:R:734:LEU:CD2	5:R:817:ASN:OD1	1.98	1.12
1:Z:824:MET:CG	1:Z:825:PRO:HD3	1.80	1.12
6:J:380:TYR:HE2	8:L:751:LEU:HD21	1.08	1.12
7:W:321:ALA:CA	7:W:348:ILE:CD1	2.27	1.12
7:W:321:ALA:HA	7:W:348:ILE:CD1	1.80	1.12
5:F:734:LEU:CD2	5:F:817:ASN:OD1	1.98	1.12
1:N:830:SER:HB3	3:P:1238:ARG:HA	1.28	1.12
6:V:404:ASP:O	6:V:408:ALA:CB	1.97	1.12
1:Z:810:ALA:CA	1:Z:836:ASP:HA	1.80	1.11
3:D:1493:ASN:HA	5:F:1471:LYS:HD2	1.32	1.11
7:W:509:ILE:HG22	1:Z:12:SER:OG	1.50	1.11
5:F:1203:TYR:CB	5:F:1299:ASN:HD21	1.63	1.11
3:P:1493:ASN:HA	5:R:1471:LYS:HD2	1.32	1.11
5:R:354:ARG:HB2	5:R:356:ILE:HG22	1.28	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:463:LYS:CG	7:W:530:ASP:OD2	1.98	1.11
1:Z:757:ALA:HB1	1:Z:819:MET:O	1.40	1.11
6:G:289:GLN:HE22	6:J:352:VAL:HG22	0.96	1.11
7:K:321:ALA:CA	7:K:348:ILE:CD1	2.27	1.11
7:K:321:ALA:HA	7:K:348:ILE:CD1	1.80	1.11
1:Z:810:ALA:HB3	1:Z:836:ASP:C	1.69	1.11
5:F:841:PHE:HD2	5:F:918:PHE:CE1	1.55	1.11
5:F:1550:LEU:CD2	5:F:1552:PHE:CZ	2.34	1.11
1:N:810:ALA:CA	1:N:836:ASP:HA	1.80	1.11
5:R:800:ILE:CD1	5:R:885:GLU:OE1	1.98	1.11
7:T:418:GLN:NE2	8:U:718:THR:HG21	1.55	1.11
5:F:922:LEU:HD23	7:H:400:LYS:CE	1.81	1.10
1:N:252:GLN:OE1	1:N:498:PHE:CD2	2.04	1.10
5:R:922:LEU:HD23	7:T:400:LYS:CE	1.81	1.10
1:Z:746:PRO:CB	1:Z:753:ALA:CA	2.29	1.10
5:F:800:ILE:CD1	5:F:885:GLU:OE1	1.98	1.10
5:F:690:GLU:CD	8:I:722:LEU:HD21	1.69	1.10
6:G:289:GLN:NE2	6:J:352:VAL:HG22	1.67	1.10
1:N:243:SER:HA	1:N:254:LEU:HD21	1.30	1.10
1:N:757:ALA:HB1	1:N:819:MET:O	1.40	1.10
5:R:1203:TYR:CB	5:R:1299:ASN:HD21	1.63	1.10
6:V:432:LEU:CB	8:X:782:ILE:C	2.20	1.10
6:V:432:LEU:CB	8:X:782:ILE:O	2.00	1.10
1:A:783:SER:HA	1:A:839:LEU:HA	1.25	1.10
6:J:405:LEU:HD12	7:K:470:ALA:HA	1.33	1.10
6:J:432:LEU:CB	8:L:782:ILE:O	2.00	1.10
6:V:398:VAL:HG23	7:W:466:LEU:CD1	1.79	1.10
1:Z:753:ALA:HB1	1:Z:815:ILE:O	1.52	1.10
1:N:824:MET:CG	1:N:825:PRO:HD3	1.79	1.10
3:P:1020:ASN:HB2	1:Z:251:ALA:CB	1.80	1.10
3:P:1136:ASP:HB3	1:Z:203:ASN:O	1.28	1.10
5:R:334:GLN:CG	5:R:854:GLU:OE2	1.99	1.10
5:R:1550:LEU:CD2	5:R:1552:PHE:CZ	2.34	1.10
6:V:405:LEU:HD12	7:W:470:ALA:HA	1.33	1.09
5:F:334:GLN:CG	5:F:854:GLU:OE2	1.99	1.09
1:N:746:PRO:CB	1:N:753:ALA:CA	2.29	1.09
6:J:432:LEU:CB	8:L:782:ILE:C	2.19	1.09
5:F:334:GLN:NE2	5:F:859:LYS:HZ3	1.36	1.09
6:J:431:GLN:HA	7:K:500:GLU:H	1.10	1.09
1:N:757:ALA:HB2	1:N:819:MET:O	1.46	1.08
5:F:922:LEU:HD23	7:H:400:LYS:NZ	1.68	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1529:ALA:CB	5:F:1611:VAL:HG13	1.84	1.08
5:F:1561:LEU:HD22	5:R:1667:VAL:HG21	1.20	1.08
1:M:128:LEU:HD13	4:Q:1260:TYR:OH	1.53	1.08
5:R:1550:LEU:CD1	5:R:1604:ILE:HD13	1.84	1.08
6:S:430:LEU:CB	8:U:780:THR:HG22	1.83	1.08
1:Z:814:MET:CB	1:Z:833:ILE:CD1	2.32	1.08
3:D:977:LYS:HE2	1:N:315:LYS:HA	1.27	1.08
5:R:922:LEU:HD23	7:T:400:LYS:NZ	1.68	1.08
3:D:977:LYS:HE2	1:N:315:LYS:CA	1.83	1.07
7:K:317:ASN:CB	7:K:346:GLN:HB3	1.83	1.07
7:K:482:MET:CB	8:L:784:ILE:HA	1.83	1.07
6:S:289:GLN:NE2	6:V:352:VAL:HG22	1.66	1.07
7:H:426:GLY:HA2	8:I:736:ASN:N	1.69	1.07
6:J:383:LYS:HZ2	8:L:756:ASN:CB	1.65	1.07
1:N:254:LEU:HB3	1:N:258:LYS:HE2	1.32	1.07
5:R:928:LEU:H	5:R:928:LEU:HD12	1.15	1.07
5:F:1550:LEU:CD1	5:F:1604:ILE:HD13	1.84	1.07
5:R:1529:ALA:CB	5:R:1611:VAL:HG13	1.84	1.07
7:W:482:MET:CB	8:X:784:ILE:HA	1.83	1.07
1:Z:824:MET:CB	1:Z:825:PRO:HD3	1.85	1.07
1:A:55:GLN:CB	7:K:521:THR:CB	2.32	1.07
3:D:1019:ARG:HB3	1:N:251:ALA:HB2	1.19	1.07
6:G:331:LYS:HE2	1:Z:49:LEU:HD11	1.29	1.07
6:G:430:LEU:CB	8:I:780:THR:HG22	1.83	1.07
1:N:753:ALA:HB1	1:N:815:ILE:O	1.52	1.07
7:T:420:ALA:CB	8:U:745:TYR:CE1	2.36	1.07
5:F:928:LEU:H	5:F:928:LEU:HD12	1.15	1.07
7:H:420:ALA:CB	8:I:745:TYR:CE1	2.36	1.07
6:J:383:LYS:HZ2	8:L:756:ASN:CG	1.48	1.07
1:A:814:MET:HG3	1:A:833:ILE:HD11	1.07	1.06
5:F:228:PHE:N	5:F:361:LEU:CB	2.18	1.06
6:G:327:LYS:HZ3	1:Z:46:ILE:HB	0.96	1.06
7:H:412:ILE:HG23	7:H:415:LEU:HD22	1.37	1.06
1:M:772:PRO:CA	1:M:828:THR:HG21	1.86	1.06
1:N:824:MET:CB	1:N:825:PRO:HD3	1.85	1.06
7:W:317:ASN:CB	7:W:346:GLN:HB3	1.83	1.06
1:A:128:LEU:HD13	4:E:1260:TYR:OH	1.53	1.06
3:D:242:MET:SD	3:D:298:TYR:CD2	2.48	1.06
5:F:837:TYR:HB2	5:F:918:PHE:CE2	1.90	1.06
3:P:1134:SER:HB3	1:Z:206:ASN:ND2	1.48	1.06
1:A:772:PRO:CA	1:A:828:THR:HG21	1.86	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:532:ALA:HB2	8:I:818:ILE:HD12	1.34	1.06
7:K:535:LYS:HA	8:L:818:ILE:CB	1.86	1.06
1:M:814:MET:HG3	1:M:833:ILE:HD11	1.07	1.06
1:N:814:MET:CB	1:N:833:ILE:CD1	2.32	1.06
7:H:412:ILE:HG23	7:H:415:LEU:CD2	1.86	1.06
3:P:242:MET:SD	3:P:298:TYR:CD2	2.48	1.06
3:P:1021:TYR:H	1:Z:249:ARG:HA	1.20	1.06
7:T:535:LYS:CB	8:U:821:ILE:HD11	1.86	1.06
6:V:383:LYS:HZ2	8:X:756:ASN:CG	1.49	1.06
5:F:1034:LEU:HD22	5:F:1092:THR:HB	1.37	1.05
6:J:391:LEU:HD22	7:K:452:GLY:O	1.56	1.05
7:K:513:LEU:HD21	8:L:800:HIS:CE1	1.90	1.05
2:O:1258:GLN:HG2	2:O:1299:LYS:CE	1.86	1.05
5:F:841:PHE:CE2	5:F:918:PHE:CE1	2.44	1.05
6:G:451:MET:HE1	1:M:14:THR:HG21	1.10	1.05
5:R:837:TYR:HB2	5:R:918:PHE:CE2	1.90	1.05
6:V:383:LYS:NZ	8:X:756:ASN:OD1	1.87	1.05
7:H:535:LYS:CB	8:I:821:ILE:HD11	1.86	1.05
1:N:49:LEU:HD11	6:S:331:LYS:HE2	1.29	1.05
4:Q:977:ALA:O	7:W:460:TRP:CB	2.04	1.05
1:N:751:LEU:O	1:N:753:ALA:N	1.89	1.05
6:S:289:GLN:HE22	6:V:352:VAL:HG22	0.95	1.05
7:T:426:GLY:HA2	8:U:736:ASN:N	1.69	1.05
2:C:1258:GLN:HG2	2:C:1299:LYS:CE	1.86	1.04
1:M:53:VAL:HG21	8:X:799:SER:OG	1.57	1.04
4:E:977:ALA:O	7:K:460:TRP:CB	2.04	1.04
6:J:383:LYS:NZ	8:L:756:ASN:OD1	1.87	1.04
7:T:532:ALA:HB2	8:U:818:ILE:HD12	1.34	1.04
6:V:383:LYS:HZ2	8:X:756:ASN:CB	1.66	1.04
6:V:463:LYS:HE2	7:W:526:VAL:HG12	1.37	1.04
1:A:814:MET:CG	1:A:833:ILE:HD11	1.86	1.04
1:M:814:MET:CG	1:M:833:ILE:HD11	1.86	1.04
3:P:1137:ASP:CB	1:Z:205:ASN:CB	2.35	1.04
5:R:841:PHE:CE2	5:R:918:PHE:CE1	2.44	1.04
5:R:228:PHE:N	5:R:361:LEU:CB	2.18	1.04
4:E:1022:TYR:CD2	4:E:1026:THR:CG2	2.39	1.04
1:M:140:ILE:HG21	4:Q:1393:LYS:HD3	1.05	1.04
1:Z:751:LEU:O	1:Z:753:ALA:N	1.89	1.04
5:F:1203:TYR:CB	5:F:1299:ASN:ND2	2.20	1.03
7:T:412:ILE:HG23	7:T:415:LEU:CD2	1.86	1.03
1:M:140:ILE:HG22	4:Q:1393:LYS:NZ	1.73	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:U:739:GLN:O	8:U:741:ARG:N	1.91	1.03
6:V:325:TYR:CE2	7:W:390:HIS:CA	2.41	1.03
3:D:1140:LYS:NZ	1:N:204:GLU:CA	2.17	1.03
1:N:27:GLU:OE2	1:N:30:ASP:HB3	1.58	1.03
5:R:350:ARG:O	5:R:393:SER:CB	2.06	1.03
4:E:1394:LYS:O	4:E:1398:VAL:HG23	1.59	1.03
6:J:325:TYR:CE2	7:K:390:HIS:CA	2.41	1.03
1:N:116:LYS:HZ3	1:N:116:LYS:HB3	1.23	1.03
5:R:1203:TYR:CB	5:R:1299:ASN:ND2	2.20	1.03
7:T:418:GLN:HE21	8:U:718:THR:HG23	0.86	1.03
2:C:318:ILE:H	2:C:318:ILE:HD12	1.17	1.02
4:E:1319:LEU:HD21	4:E:1398:VAL:CG2	1.89	1.02
5:F:690:GLU:CD	8:I:722:LEU:CD2	2.28	1.02
1:N:817:ALA:O	1:N:821:GLN:N	1.91	1.02
7:W:518:ARG:HH11	7:W:518:ARG:HB2	1.20	1.02
1:A:140:ILE:HG22	4:E:1393:LYS:NZ	1.73	1.02
5:F:350:ARG:O	5:F:393:SER:CB	2.06	1.02
1:N:824:MET:HG2	1:N:825:PRO:HD2	1.36	1.02
3:P:920:GLU:CB	1:Z:294:MET:SD	2.47	1.02
3:P:1136:ASP:HB2	1:Z:203:ASN:ND2	1.74	1.02
4:Q:1022:TYR:O	4:Q:1026:THR:HG23	1.59	1.02
1:Z:817:ALA:O	1:Z:821:GLN:N	1.91	1.02
1:M:59:LYS:CB	8:X:807:LEU:CB	2.38	1.02
4:Q:1022:TYR:CD2	4:Q:1026:THR:CG2	2.39	1.02
4:Q:1394:LYS:O	4:Q:1398:VAL:HG23	1.58	1.02
5:R:1034:LEU:HD22	5:R:1092:THR:HB	1.37	1.02
5:R:1129:ASN:HD21	5:R:1132:GLU:CB	1.73	1.02
1:A:53:VAL:HG21	8:L:799:SER:OG	1.57	1.02
5:F:159:LYS:HE3	5:F:363:ASP:HA	1.39	1.02
4:Q:210:ASN:HA	4:Q:213:PHE:CB	1.90	1.02
7:T:412:ILE:HG23	7:T:415:LEU:HD22	1.38	1.02
1:Z:753:ALA:HB1	1:Z:816:TYR:CA	1.90	1.02
1:A:59:LYS:CB	8:L:807:LEU:CB	2.38	1.02
1:M:814:MET:CG	1:M:833:ILE:CD1	2.37	1.02
2:O:318:ILE:HD12	2:O:318:ILE:H	1.17	1.02
4:Q:1319:LEU:HD21	4:Q:1398:VAL:CG2	1.88	1.02
5:R:159:LYS:HE3	5:R:363:ASP:HA	1.39	1.02
1:A:814:MET:CG	1:A:833:ILE:CD1	2.37	1.01
5:F:920:ILE:HG21	5:F:924:ALA:O	1.59	1.01
7:K:482:MET:CB	8:L:784:ILE:CA	2.38	1.01
5:R:920:ILE:HG21	5:R:924:ALA:O	1.59	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:920:GLU:CB	1:N:294:MET:SD	2.48	1.01
4:E:210:ASN:HA	4:E:213:PHE:CB	1.90	1.01
8:I:739:GLN:O	8:I:741:ARG:N	1.92	1.01
5:F:1129:ASN:HD21	5:F:1132:GLU:CB	1.73	1.01
6:G:331:LYS:CE	1:Z:49:LEU:HD11	1.91	1.01
6:G:451:MET:HE3	1:M:14:THR:HG21	1.06	1.01
1:N:811:ARG:N	1:N:836:ASP:CB	2.24	1.01
6:S:431:GLN:CA	7:T:503:ASN:CB	2.38	1.01
1:A:140:ILE:HG21	4:E:1393:LYS:HD3	1.06	1.01
3:D:1019:ARG:CB	1:N:251:ALA:HB2	1.90	1.01
5:F:1116:VAL:CG1	5:F:1150:PHE:CE2	2.42	1.01
5:F:1561:LEU:HD23	5:R:1667:VAL:HG21	1.43	1.01
1:N:810:ALA:HB1	1:N:836:ASP:HA	1.01	1.01
5:R:1116:VAL:CG1	5:R:1150:PHE:CE2	2.42	1.01
6:V:389:ARG:O	6:V:392:SER:OG	1.76	1.01
6:V:404:ASP:O	6:V:408:ALA:HB3	1.59	1.01
1:Z:824:MET:HG2	1:Z:825:PRO:HD2	1.36	1.01
5:R:690:GLU:CD	8:U:722:LEU:CD2	2.28	1.01
1:Z:810:ALA:HB3	1:Z:836:ASP:CA	1.86	1.01
1:Z:811:ARG:N	1:Z:836:ASP:CB	2.24	1.01
3:D:401:ILE:HG21	3:D:462:LEU:HB3	1.43	1.00
5:F:228:PHE:CD1	5:F:360:LEU:O	2.14	1.00
5:F:909:LEU:CB	7:H:404:ARG:HA	1.91	1.00
5:F:1550:LEU:CD2	5:F:1552:PHE:CE2	2.44	1.00
6:G:451:MET:HE1	1:M:14:THR:CG2	1.80	1.00
8:I:798:ASN:O	8:I:801:PHE:N	1.92	1.00
1:M:140:ILE:HG21	4:Q:1393:LYS:CD	1.91	1.00
1:N:49:LEU:HD11	6:S:331:LYS:CE	1.91	1.00
6:V:383:LYS:HZ2	8:X:756:ASN:CA	1.54	1.00
5:F:1167:LYS:HA	5:F:1167:LYS:HE3	1.44	1.00
1:N:753:ALA:HB1	1:N:816:TYR:CA	1.90	1.00
5:R:909:LEU:CB	7:T:404:ARG:HA	1.91	1.00
3:D:938:LEU:HB2	3:D:940:VAL:HG22	1.41	1.00
8:U:798:ASN:O	8:U:801:PHE:N	1.92	1.00
6:V:463:LYS:CE	7:W:526:VAL:HG12	1.92	1.00
5:F:887:PHE:N	5:F:888:PRO:HD2	1.77	1.00
5:F:1550:LEU:HD22	5:F:1552:PHE:CZ	1.97	1.00
6:G:431:GLN:CA	7:H:503:ASN:CB	2.38	1.00
1:N:810:ALA:HB3	1:N:836:ASP:CA	1.86	1.00
3:P:938:LEU:HB2	3:P:940:VAL:HG22	1.41	1.00
7:K:321:ALA:HA	7:K:348:ILE:HG12	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:211:LYS:NZ	1:Z:246:ASN:CG	1.94	0.99
1:Z:810:ALA:HB1	1:Z:836:ASP:HA	1.01	0.99
5:F:228:PHE:CE1	5:F:360:LEU:O	2.15	0.99
1:N:245:ALA:CB	1:N:250:ASN:CB	2.39	0.99
5:R:228:PHE:CD1	5:R:360:LEU:O	2.15	0.99
5:R:1550:LEU:CD2	5:R:1552:PHE:CE2	2.45	0.99
5:R:1550:LEU:HD21	5:R:1552:PHE:CZ	1.98	0.99
5:F:1529:ALA:HB2	5:F:1611:VAL:CG1	1.92	0.99
5:R:1167:LYS:HA	5:R:1167:LYS:HE3	1.44	0.99
1:A:140:ILE:HG21	4:E:1393:LYS:CD	1.91	0.99
1:N:133:THR:HG22	1:N:134:LYS:N	1.77	0.99
1:N:753:ALA:CA	1:N:816:TYR:HA	1.92	0.99
6:J:365:SER:H	7:K:424:ASN:ND2	1.60	0.99
6:J:380:TYR:CE2	8:L:751:LEU:HD21	1.98	0.99
5:R:228:PHE:CE1	5:R:360:LEU:O	2.15	0.99
1:Z:753:ALA:CA	1:Z:816:TYR:HA	1.92	0.99
5:F:1550:LEU:HD22	5:F:1552:PHE:CE2	1.97	0.99
6:G:289:GLN:HE22	6:J:352:VAL:CG2	1.76	0.99
5:R:1529:ALA:HB2	5:R:1611:VAL:CG1	1.92	0.99
6:V:365:SER:H	7:W:424:ASN:ND2	1.60	0.99
7:H:420:ALA:HB1	8:I:745:TYR:CZ	1.98	0.99
1:Z:133:THR:HG22	1:Z:134:LYS:N	1.77	0.99
4:E:1022:TYR:O	4:E:1026:THR:HG23	1.59	0.98
5:F:1558:ASP:CB	5:R:1680:GLN:O	2.11	0.98
7:W:482:MET:CB	8:X:784:ILE:CA	2.38	0.98
5:F:1550:LEU:HD21	5:F:1552:PHE:CZ	1.98	0.98
1:Z:757:ALA:HB2	1:Z:819:MET:O	1.46	0.98
6:G:331:LYS:CE	1:Z:49:LEU:CD1	2.41	0.98
7:H:418:GLN:HE21	8:I:718:THR:HG23	0.86	0.98
1:N:49:LEU:CD1	6:S:331:LYS:CE	2.41	0.98
7:W:446:ARG:HH22	7:W:455:LYS:CE	1.76	0.98
3:D:1137:ASP:CB	1:N:205:ASN:HB2	1.92	0.98
5:R:1550:LEU:HD22	5:R:1552:PHE:CE2	1.97	0.98
3:P:977:LYS:HE2	1:Z:315:LYS:HA	1.41	0.98
3:P:1021:TYR:CB	1:Z:248:THR:O	2.12	0.98
5:R:887:PHE:N	5:R:888:PRO:HD2	1.77	0.98
1:Z:807:LYS:CA	1:Z:836:ASP:O	2.12	0.98
3:D:1136:ASP:HB2	1:N:203:ASN:ND2	1.79	0.98
7:H:426:GLY:CA	8:I:736:ASN:N	2.27	0.98
6:V:380:TYR:CE2	8:X:751:LEU:HD21	1.98	0.98
1:N:807:LYS:CA	1:N:836:ASP:O	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:951:ARG:HH21	5:R:953:ASN:H	1.08	0.97
5:R:1550:LEU:HD22	5:R:1552:PHE:CZ	1.97	0.97
3:D:1238:ARG:HA	1:Z:830:SER:CB	1.94	0.97
6:G:331:LYS:HE2	1:Z:49:LEU:HD12	1.46	0.97
7:K:538:LYS:CB	8:L:818:ILE:O	2.13	0.97
1:M:128:LEU:CD2	4:Q:1260:TYR:CE2	2.47	0.97
7:T:420:ALA:HB1	8:U:745:TYR:CZ	1.98	0.97
6:J:281:ASP:HA	6:J:284:ILE:HD12	1.46	0.97
6:J:389:ARG:O	6:J:392:SER:OG	1.80	0.97
7:K:446:ARG:HH22	7:K:455:LYS:CE	1.76	0.97
1:M:775:LEU:HB3	1:M:832:LEU:HD11	1.44	0.97
7:T:493:SER:O	8:U:784:ILE:O	1.83	0.97
5:F:968:ILE:HG13	7:H:392:LEU:HD13	1.46	0.97
5:R:1085:LYS:O	5:R:1089:ASN:CB	2.12	0.97
1:A:775:LEU:HB3	1:A:832:LEU:HD11	1.44	0.97
6:J:388:CYS:HA	6:J:391:LEU:HD12	1.44	0.97
6:S:289:GLN:HE22	6:V:352:VAL:CG2	1.76	0.97
7:T:426:GLY:CA	8:U:736:ASN:N	2.27	0.97
3:P:401:ILE:HG21	3:P:462:LEU:HB3	1.43	0.97
1:Z:817:ALA:O	1:Z:821:GLN:CB	2.13	0.97
1:A:32:LEU:HD12	1:N:22:LEU:HD22	1.41	0.97
6:G:455:GLU:CB	1:Z:32:LEU:HD23	1.95	0.96
1:N:830:SER:CB	3:P:1238:ARG:HA	1.94	0.96
7:K:298:SER:HA	7:K:306:THR:HA	1.47	0.96
1:A:128:LEU:CD2	4:E:1260:TYR:CE2	2.47	0.96
5:F:1085:LYS:O	5:F:1089:ASN:CB	2.12	0.96
3:D:242:MET:SD	3:D:298:TYR:HE2	1.78	0.96
5:F:1034:LEU:CD2	5:F:1092:THR:HB	1.95	0.96
5:F:1216:PHE:HE2	5:F:1282:ALA:CB	1.77	0.96
7:H:493:SER:O	8:I:784:ILE:O	1.83	0.96
5:R:1129:ASN:HD21	5:R:1132:GLU:HB3	0.82	0.96
5:R:1216:PHE:HE2	5:R:1282:ALA:CB	1.77	0.96
6:V:380:TYR:HE2	8:X:751:LEU:CD2	1.79	0.96
6:V:383:LYS:CD	8:X:756:ASN:OD1	2.13	0.96
1:Z:253:LEU:HD21	1:Z:498:PHE:HD2	1.30	0.96
1:N:817:ALA:O	1:N:821:GLN:CB	2.13	0.96
6:G:430:LEU:O	7:H:503:ASN:CB	2.13	0.96
6:S:430:LEU:O	7:T:503:ASN:CB	2.13	0.96
5:F:951:ARG:HH21	5:F:953:ASN:H	1.08	0.96
7:W:298:SER:HA	7:W:306:THR:HA	1.46	0.96
7:W:321:ALA:HA	7:W:348:ILE:HG12	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:824:MET:HB2	1:N:825:PRO:HD3	1.47	0.95
3:P:1019:ARG:O	1:Z:250:ASN:N	1.96	0.95
6:V:383:LYS:HZ3	8:X:756:ASN:CG	1.65	0.95
6:V:431:GLN:HA	7:W:500:GLU:N	1.81	0.95
4:E:260:ARG:NH2	4:E:761:PHE:HZ	1.64	0.95
3:P:1020:ASN:CG	1:Z:252:GLN:HG2	1.85	0.95
7:K:526:VAL:O	7:K:530:ASP:HB2	1.66	0.95
6:J:431:GLN:HA	7:K:500:GLU:N	1.81	0.95
3:P:528:PRO:HG3	3:P:624:PHE:CE2	2.02	0.95
1:Z:824:MET:HG2	1:Z:825:PRO:HD3	1.42	0.95
6:J:380:TYR:HE2	8:L:751:LEU:CD2	1.79	0.95
3:P:977:LYS:HE2	1:Z:315:LYS:CA	1.95	0.95
1:N:810:ALA:C	1:N:836:ASP:CB	2.35	0.95
5:R:968:ILE:HG13	7:T:392:LEU:HD13	1.46	0.95
3:D:528:PRO:HG3	3:D:624:PHE:CE2	2.02	0.95
6:J:383:LYS:CD	8:L:756:ASN:OD1	2.13	0.95
1:A:751:LEU:HD22	2:C:1313:LEU:HA	1.49	0.95
1:Z:810:ALA:C	1:Z:836:ASP:CB	2.35	0.95
5:F:1129:ASN:HD21	5:F:1132:GLU:HB3	0.82	0.95
5:F:920:ILE:CG2	5:F:924:ALA:O	2.15	0.94
6:J:325:TYR:HE2	7:K:390:HIS:HA	1.17	0.94
6:V:463:LYS:HE2	7:W:526:VAL:CG1	1.96	0.94
3:P:1020:ASN:HB2	1:Z:251:ALA:HB3	0.96	0.94
5:R:841:PHE:CE2	5:R:918:PHE:HE1	1.85	0.94
5:R:968:ILE:CG1	7:T:392:LEU:HD13	1.97	0.94
3:P:242:MET:SD	3:P:298:TYR:HE2	1.78	0.94
6:V:281:ASP:HA	6:V:284:ILE:HD12	1.46	0.94
3:D:1019:ARG:O	1:N:251:ALA:N	2.01	0.94
7:K:321:ALA:H	7:K:348:ILE:HD11	1.09	0.94
6:V:383:LYS:HD2	8:X:756:ASN:OD1	1.68	0.94
3:D:1137:ASP:CB	1:N:205:ASN:HA	1.97	0.94
4:E:260:ARG:NH2	4:E:761:PHE:CZ	2.35	0.94
6:J:383:LYS:HD2	8:L:756:ASN:OD1	1.68	0.94
1:N:46:ILE:CB	6:S:327:LYS:NZ	2.31	0.94
1:N:59:LYS:CB	8:U:814:LEU:HD21	1.97	0.94
6:V:383:LYS:CE	8:X:756:ASN:OD1	2.16	0.94
1:A:772:PRO:HB3	1:A:828:THR:HG21	0.95	0.94
8:U:818:ILE:C	8:U:821:ILE:HG22	1.87	0.94
5:F:968:ILE:CG1	7:H:392:LEU:HD13	1.97	0.94
6:J:383:LYS:HZ2	8:L:756:ASN:CA	1.55	0.94
5:R:1034:LEU:CD2	5:R:1092:THR:HB	1.95	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:U:818:ILE:O	8:U:821:ILE:HG22	0.76	0.94
8:I:818:ILE:O	8:I:821:ILE:HG22	0.76	0.94
5:R:350:ARG:O	5:R:393:SER:HB3	1.68	0.94
5:R:1550:LEU:HD11	5:R:1604:ILE:HD13	1.48	0.94
6:J:383:LYS:CE	8:L:756:ASN:OD1	2.16	0.94
3:P:1140:LYS:HZ1	1:Z:204:GLU:HA	1.33	0.94
5:F:350:ARG:O	5:F:393:SER:HB3	1.68	0.93
5:F:1068:ILE:HD12	5:F:1150:PHE:CD2	2.04	0.93
5:R:1012:ASN:O	8:U:787:GLU:HG2	1.68	0.93
5:F:354:ARG:CB	5:F:356:ILE:HG22	1.98	0.93
8:I:814:LEU:HD21	1:Z:59:LYS:CB	1.97	0.93
1:N:49:LEU:HD12	6:S:331:LYS:HE2	1.46	0.93
1:N:207:ILE:HD13	1:N:247:GLY:HA3	1.50	0.93
5:R:920:ILE:CG2	5:R:924:ALA:O	2.15	0.93
1:Z:824:MET:HB2	1:Z:825:PRO:HD3	1.47	0.93
6:J:433:LYS:N	7:K:499:GLY:HA3	1.84	0.93
1:N:255:GLU:OE2	1:N:480:GLN:NE2	2.00	0.93
6:V:463:LYS:CE	7:W:526:VAL:CG1	2.46	0.93
3:P:118:THR:HB	3:P:623:GLY:HA2	1.51	0.93
1:Z:753:ALA:HA	1:Z:816:TYR:CB	1.98	0.93
5:F:1550:LEU:HD11	5:F:1604:ILE:HD13	1.48	0.93
3:P:1137:ASP:CB	1:Z:205:ASN:HB2	1.99	0.93
6:V:405:LEU:HD11	7:W:469:ARG:C	1.89	0.93
6:G:327:LYS:NZ	1:Z:46:ILE:CB	2.31	0.93
6:G:455:GLU:HB2	1:Z:32:LEU:HD23	1.51	0.93
1:N:621:HIS:NE2	3:P:1467:SER:HB2	1.84	0.93
3:D:1467:SER:HB2	1:Z:621:HIS:NE2	1.84	0.92
5:F:837:TYR:HB2	5:F:918:PHE:HE2	1.29	0.92
8:I:818:ILE:C	8:I:821:ILE:HG22	1.87	0.92
1:M:140:ILE:CG2	4:Q:1393:LYS:CD	2.47	0.92
5:R:354:ARG:CB	5:R:356:ILE:HG22	1.98	0.92
1:M:751:LEU:HD22	2:O:1313:LEU:HA	1.49	0.92
4:Q:989:ASP:O	4:Q:991:LYS:N	2.03	0.92
1:A:15:SER:HB3	6:S:447:PHE:CD2	2.03	0.92
5:R:1116:VAL:HG11	5:R:1150:PHE:HE2	1.32	0.92
5:R:1167:LYS:HA	5:R:1167:LYS:CE	1.99	0.92
1:A:15:SER:CA	6:S:447:PHE:CE2	2.53	0.92
3:D:515:VAL:HG12	3:D:644:SER:HB3	1.51	0.92
1:N:753:ALA:HA	1:N:816:TYR:CB	1.98	0.92
3:P:515:VAL:HG12	3:P:644:SER:HB3	1.52	0.92
3:P:1140:LYS:NZ	1:Z:204:GLU:CA	2.15	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:388:CYS:O	6:V:388:CYS:SG	2.28	0.92
5:R:711:GLN:OE1	5:R:779:PRO:HA	1.70	0.92
6:V:325:TYR:HE2	7:W:390:HIS:HA	1.18	0.92
4:E:260:ARG:HG2	4:E:260:ARG:HH11	1.31	0.92
6:J:405:LEU:HD11	7:K:469:ARG:C	1.89	0.92
6:V:433:LYS:N	7:W:499:GLY:HA3	1.84	0.92
3:D:483:HIS:HB2	3:D:486:GLN:HG2	1.52	0.92
3:D:1020:ASN:HB2	1:N:251:ALA:HB3	1.51	0.92
1:M:772:PRO:HB3	1:M:828:THR:HG21	0.95	0.92
1:A:140:ILE:CG2	4:E:1393:LYS:CD	2.47	0.92
6:G:451:MET:HE3	1:M:14:THR:CG2	1.86	0.92
6:J:383:LYS:HZ3	8:L:756:ASN:CG	1.67	0.92
6:J:388:CYS:HA	6:J:391:LEU:HB2	1.52	0.92
4:Q:1398:VAL:HG12	4:Q:1398:VAL:O	1.69	0.92
3:D:1140:LYS:HZ1	1:N:204:GLU:HA	1.17	0.91
4:E:1398:VAL:O	4:E:1398:VAL:HG12	1.69	0.91
3:P:971:ILE:HD11	3:P:984:THR:HB	1.52	0.91
6:V:405:LEU:HD12	7:W:470:ALA:CA	2.00	0.91
3:D:971:ILE:HD11	3:D:984:THR:HB	1.52	0.91
5:F:1012:ASN:O	8:I:787:GLU:HG2	1.68	0.91
1:M:59:LYS:CA	8:X:807:LEU:CB	2.48	0.91
5:R:800:ILE:HD11	5:R:885:GLU:OE1	1.69	0.91
7:W:321:ALA:H	7:W:348:ILE:CD1	1.83	0.91
5:F:711:GLN:OE1	5:F:779:PRO:HA	1.69	0.91
5:F:800:ILE:HD11	5:F:885:GLU:OE1	1.69	0.91
7:K:456:THR:O	7:K:458:GLU:N	2.03	0.91
7:K:525:GLU:O	7:K:529:LYS:HB3	1.70	0.91
4:E:687:LYS:CB	5:F:1391:GLY:HA3	2.00	0.91
1:N:362:LYS:O	1:N:365:GLN:HB2	1.71	0.91
1:N:824:MET:CG	1:N:825:PRO:CD	2.43	0.91
1:Z:362:LYS:O	1:Z:365:GLN:HB2	1.71	0.91
1:A:59:LYS:CA	8:L:807:LEU:CB	2.48	0.91
3:P:483:HIS:HB2	3:P:486:GLN:HG2	1.52	0.91
1:A:27:GLU:CB	6:J:467:LEU:CD2	2.49	0.91
3:D:118:THR:HB	3:D:623:GLY:HA2	1.51	0.91
7:K:321:ALA:H	7:K:348:ILE:CD1	1.83	0.91
3:P:1134:SER:CB	1:Z:206:ASN:ND2	2.31	0.91
6:G:295:LYS:HG2	6:J:363:LYS:NZ	1.86	0.91
5:R:1068:ILE:HD12	5:R:1150:PHE:CD2	2.04	0.91
6:V:388:CYS:HB2	7:W:455:LYS:HD2	1.51	0.91
7:W:379:ILE:O	7:W:382:LYS:CB	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:810:ALA:C	1:Z:836:ASP:HA	1.91	0.91
4:Q:687:LYS:CB	5:R:1391:GLY:HA3	2.00	0.91
7:W:456:THR:O	7:W:458:GLU:N	2.03	0.91
5:R:1038:LEU:C	5:R:1040:THR:H	1.74	0.90
7:K:379:ILE:O	7:K:382:LYS:CB	2.19	0.90
4:E:989:ASP:O	4:E:991:LYS:N	2.03	0.90
4:E:1029:ASN:ND2	7:K:475:SER:CB	2.35	0.90
7:H:425:ARG:C	7:H:427:LEU:N	2.21	0.90
2:O:1258:GLN:HG2	2:O:1299:LYS:NZ	1.86	0.90
3:D:716:VAL:HG11	3:D:889:GLU:HB2	1.54	0.90
5:F:1038:LEU:C	5:F:1040:THR:H	1.74	0.90
6:V:405:LEU:HD11	7:W:469:ARG:HG2	1.53	0.90
5:F:334:GLN:HG2	5:F:860:ASN:ND2	1.85	0.90
6:J:364:ILE:CA	7:K:424:ASN:ND2	2.35	0.90
6:J:405:LEU:HD12	7:K:470:ALA:CA	2.00	0.90
7:K:484:PHE:O	7:K:492:ASP:CB	2.20	0.90
1:N:810:ALA:C	1:N:836:ASP:HA	1.91	0.90
6:S:292:HIS:ND1	6:V:352:VAL:HG11	1.87	0.90
3:P:1021:TYR:H	1:Z:249:ARG:CA	1.83	0.90
1:A:27:GLU:HB2	6:J:467:LEU:HD21	1.52	0.90
2:C:1258:GLN:HG2	2:C:1299:LYS:NZ	1.86	0.90
6:V:364:ILE:CA	7:W:424:ASN:ND2	2.35	0.90
5:F:1167:LYS:HA	5:F:1167:LYS:CE	1.99	0.90
5:R:922:LEU:CD2	7:T:400:LYS:HE3	2.02	0.90
6:J:342:GLU:OE1	6:J:375:LYS:NZ	2.04	0.90
6:V:342:GLU:OE1	6:V:375:LYS:NZ	2.04	0.90
1:Z:810:ALA:CB	1:Z:836:ASP:O	2.20	0.90
1:A:27:GLU:HB2	6:J:467:LEU:CD2	2.02	0.89
1:N:117:LYS:NZ	1:N:117:LYS:HB3	1.87	0.89
1:N:810:ALA:CB	1:N:836:ASP:O	2.20	0.89
1:N:824:MET:HG2	1:N:825:PRO:HD3	1.43	0.89
3:P:1137:ASP:CB	1:Z:205:ASN:HA	2.02	0.89
5:R:837:TYR:HB2	5:R:918:PHE:HE2	1.29	0.89
5:R:967:THR:O	7:T:392:LEU:HD21	1.72	0.89
5:R:334:GLN:HG2	5:R:860:ASN:ND2	1.85	0.89
1:A:15:SER:HB2	6:S:447:PHE:CE1	2.06	0.89
5:F:922:LEU:CD2	7:H:400:LYS:HE3	2.02	0.89
7:T:425:ARG:C	7:T:427:LEU:N	2.21	0.89
1:Z:117:LYS:NZ	1:Z:117:LYS:HB3	1.87	0.89
3:D:1134:SER:C	1:N:206:ASN:ND2	2.25	0.89
4:Q:1029:ASN:ND2	7:W:475:SER:CB	2.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:S:295:LYS:HG2	6:V:363:LYS:NZ	1.86	0.89
7:T:535:LYS:CB	8:U:821:ILE:CD1	2.51	0.89
3:D:499:LEU:HB2	3:D:502:SER:HB3	1.55	0.89
5:F:1116:VAL:HG11	5:F:1150:PHE:HE2	1.32	0.89
7:W:326:LYS:CB	7:W:327:PRO:HD2	2.02	0.89
7:W:484:PHE:O	7:W:492:ASP:CB	2.20	0.89
1:Z:116:LYS:HB3	1:Z:116:LYS:HZ3	1.38	0.89
5:R:914:ASP:HA	5:R:917:PHE:CB	2.03	0.89
5:F:750:TRP:HZ2	5:F:901:PRO:CB	1.86	0.89
5:F:1672:MET:CB	1:Z:149:ALA:HB2	2.03	0.89
5:R:1294:LYS:O	5:R:1295:ALA:O	1.91	0.89
7:W:446:ARG:NH2	7:W:455:LYS:NZ	2.21	0.89
1:Z:817:ALA:O	1:Z:821:GLN:CA	2.20	0.89
6:G:292:HIS:ND1	6:J:352:VAL:HG11	1.87	0.89
1:N:817:ALA:O	1:N:821:GLN:CA	2.20	0.89
3:P:1140:LYS:HD2	1:Z:204:GLU:O	1.72	0.89
5:R:750:TRP:HZ2	5:R:901:PRO:CB	1.86	0.89
6:V:433:LYS:CB	7:W:499:GLY:HA2	2.03	0.89
6:V:459:VAL:O	6:V:463:LYS:HB2	1.73	0.89
5:F:967:THR:O	7:H:392:LEU:HD21	1.72	0.89
7:K:446:ARG:NH1	7:K:446:ARG:O	2.06	0.89
1:N:149:ALA:HB2	5:R:1672:MET:CB	2.03	0.89
7:W:446:ARG:NH1	7:W:446:ARG:O	2.06	0.89
5:F:657:ILE:O	5:F:712:LEU:HD12	1.74	0.88
3:P:499:LEU:HB2	3:P:502:SER:HB3	1.55	0.88
5:R:968:ILE:HG13	7:T:392:LEU:CD1	2.03	0.88
5:F:334:GLN:HE21	5:F:859:LYS:HZ2	0.96	0.88
1:N:27:GLU:OE2	1:N:30:ASP:CB	2.21	0.88
7:W:321:ALA:H	7:W:348:ILE:HD11	1.09	0.88
1:M:57:ARG:HH11	1:M:57:ARG:HG2	1.38	0.88
6:J:459:VAL:O	6:J:463:LYS:HB2	1.73	0.88
1:Z:127:GLN:HA	1:Z:127:GLN:HE21	1.38	0.88
5:F:1561:LEU:CD2	5:R:1667:VAL:CG2	2.50	0.88
7:K:326:LYS:CB	7:K:327:PRO:HD2	2.02	0.88
3:D:1140:LYS:HD2	1:N:204:GLU:O	1.73	0.88
5:F:968:ILE:HG13	7:H:392:LEU:CD1	2.03	0.88
7:H:426:GLY:HA2	8:I:736:ASN:H	1.37	0.88
1:N:255:GLU:HB2	1:N:480:GLN:HE21	1.36	0.88
3:P:716:VAL:HG11	3:P:889:GLU:HB2	1.53	0.88
1:Z:810:ALA:HB3	1:Z:836:ASP:HA	1.46	0.88
1:A:27:GLU:CB	6:J:467:LEU:HD21	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:753:ALA:CB	1:N:816:TYR:CA	2.50	0.88
5:F:1084:LEU:HA	5:F:1156:TYR:CZ	2.09	0.88
6:J:405:LEU:HD11	7:K:469:ARG:HG2	1.53	0.88
7:K:446:ARG:NH2	7:K:455:LYS:NZ	2.21	0.88
5:R:1680:GLN:O	5:R:1680:GLN:NE2	2.07	0.88
5:F:887:PHE:H	5:F:888:PRO:HD2	1.37	0.88
7:H:535:LYS:CB	8:I:821:ILE:CD1	2.51	0.88
5:R:657:ILE:O	5:R:712:LEU:HD12	1.73	0.88
7:W:533:ILE:HA	7:W:536:LYS:HD2	1.56	0.88
1:Z:753:ALA:CB	1:Z:816:TYR:CA	2.50	0.88
5:F:914:ASP:HA	5:F:917:PHE:CB	2.03	0.88
5:F:935:GLN:O	5:F:938:ALA:N	2.07	0.88
5:F:1294:LYS:O	5:F:1295:ALA:O	1.90	0.88
6:J:433:LYS:CB	7:K:499:GLY:HA2	2.03	0.88
1:N:252:GLN:NE2	1:N:498:PHE:CE2	2.41	0.88
2:O:1258:GLN:HG2	2:O:1299:LYS:HZ1	1.38	0.87
1:N:746:PRO:O	1:N:812:GLN:O	1.92	0.87
7:W:404:ARG:NE	7:W:404:ARG:HA	1.88	0.87
6:V:323:SER:HA	6:V:326:LEU:HD12	1.56	0.87
6:V:387:TYR:HA	8:X:762:LEU:HD22	1.55	0.87
1:M:751:LEU:CD2	2:O:1313:LEU:HD23	2.04	0.87
6:J:429:LEU:CB	6:J:434:THR:OG1	2.23	0.87
1:Z:16:LYS:O	1:Z:16:LYS:NZ	2.07	0.87
3:D:944:LEU:HD12	3:D:947:LEU:HD12	1.57	0.87
4:Q:504:ASP:HA	4:Q:522:ILE:O	1.73	0.87
3:D:910:LEU:HD23	3:D:913:LEU:HD12	1.57	0.87
1:N:127:GLN:HA	1:N:127:GLN:HE21	1.38	0.87
5:R:968:ILE:HG23	7:T:392:LEU:HD11	1.56	0.86
6:S:430:LEU:CB	8:U:780:THR:CA	2.53	0.86
4:E:504:ASP:HA	4:E:522:ILE:O	1.73	0.86
5:R:1084:LEU:HA	5:R:1156:TYR:CZ	2.09	0.86
1:Z:824:MET:CG	1:Z:825:PRO:CD	2.43	0.86
1:A:751:LEU:CD2	2:C:1313:LEU:HD23	2.04	0.86
3:D:830:SER:HB3	3:D:934:SER:HB3	1.58	0.86
5:F:1251:ARG:HH22	5:F:1276:ASP:HB2	1.38	0.86
1:N:811:ARG:CA	1:N:836:ASP:CB	2.53	0.86
6:V:398:VAL:CG2	7:W:466:LEU:HD11	2.04	0.86
5:R:734:LEU:HD21	5:R:817:ASN:OD1	1.74	0.86
1:Z:746:PRO:O	1:Z:812:GLN:O	1.92	0.86
1:Z:811:ARG:CA	1:Z:836:ASP:CB	2.53	0.86
5:F:354:ARG:HB2	5:F:356:ILE:CG2	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:28:SER:CB	1:Z:23:ASN:CA	2.53	0.86
4:Q:182:PHE:CE2	5:R:1189:MET:CB	2.59	0.86
5:R:1251:ARG:HH22	5:R:1276:ASP:HB2	1.39	0.86
3:P:430:GLU:CD	3:P:528:PRO:HD3	1.96	0.86
3:P:944:LEU:HD12	3:P:947:LEU:HD12	1.57	0.86
4:E:182:PHE:CE2	5:F:1189:MET:CB	2.59	0.86
5:R:1216:PHE:CE2	5:R:1282:ALA:CB	2.59	0.86
7:T:426:GLY:HA2	8:U:736:ASN:H	1.38	0.86
5:F:968:ILE:HG23	7:H:392:LEU:HD11	1.56	0.86
7:K:315:LYS:HA	7:K:347:THR:HA	1.58	0.86
1:N:807:LYS:CB	1:N:837:VAL:O	2.24	0.86
6:J:405:LEU:CD1	7:K:470:ALA:HA	2.06	0.86
1:N:49:LEU:O	1:N:49:LEU:HD22	1.76	0.86
3:P:175:ILE:HD11	3:P:642:LEU:HB2	1.55	0.86
5:R:935:GLN:O	5:R:938:ALA:N	2.07	0.86
7:W:315:LYS:HA	7:W:347:THR:HA	1.58	0.86
3:D:175:ILE:HD11	3:D:642:LEU:HB2	1.56	0.86
5:F:389:LEU:H	5:F:389:LEU:HD12	1.41	0.86
5:F:734:LEU:HD21	5:F:817:ASN:OD1	1.74	0.86
6:J:324:GLN:HA	6:J:327:LYS:HE2	1.56	0.85
7:K:455:LYS:HD3	7:K:455:LYS:N	1.91	0.85
5:R:354:ARG:HB2	5:R:356:ILE:CG2	2.04	0.85
6:V:398:VAL:CG2	7:W:466:LEU:HD12	2.04	0.85
6:V:429:LEU:CB	6:V:434:THR:OG1	2.23	0.85
1:A:783:SER:CA	1:A:839:LEU:HA	2.06	0.85
1:A:57:ARG:HG2	1:A:57:ARG:HH11	1.38	0.85
6:G:327:LYS:HZ3	1:Z:46:ILE:CB	1.87	0.85
5:R:334:GLN:NE2	5:R:859:LYS:HZ3	1.67	0.85
5:R:401:THR:CB	5:R:411:ASN:CB	2.53	0.85
5:F:401:THR:CB	5:F:411:ASN:CB	2.53	0.85
8:I:822:LYS:HZ2	8:I:822:LYS:HA	1.42	0.85
3:P:528:PRO:HG3	3:P:624:PHE:CD2	2.11	0.85
1:Z:807:LYS:CB	1:Z:837:VAL:O	2.24	0.85
6:V:432:LEU:CB	8:X:782:ILE:CA	2.55	0.85
3:D:768:PRO:HA	3:D:771:TYR:HB2	1.57	0.85
3:D:1137:ASP:CB	1:N:205:ASN:CA	2.55	0.85
7:W:455:LYS:HD3	7:W:455:LYS:N	1.91	0.85
5:F:1167:LYS:O	5:F:1167:LYS:HD3	1.77	0.85
6:G:430:LEU:CB	8:I:780:THR:CA	2.53	0.85
3:D:430:GLU:CD	3:D:528:PRO:HD3	1.96	0.85
5:R:1167:LYS:O	5:R:1167:LYS:HD3	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:405:LEU:CD1	7:W:470:ALA:HA	2.06	0.85
6:V:405:LEU:CD1	7:W:470:ALA:N	2.40	0.85
7:K:404:ARG:HA	7:K:404:ARG:NE	1.88	0.85
5:R:887:PHE:H	5:R:888:PRO:HD2	1.37	0.85
6:V:324:GLN:HA	6:V:327:LYS:HE2	1.56	0.85
3:D:537:LYS:HE2	3:D:572:LEU:HD23	1.57	0.85
5:F:1216:PHE:CE2	5:F:1282:ALA:CB	2.59	0.85
3:P:1136:ASP:HB2	1:Z:203:ASN:HD22	1.38	0.85
1:Z:49:LEU:O	1:Z:49:LEU:HD22	1.76	0.85
6:J:388:CYS:SG	7:K:453:LEU:HA	2.16	0.84
1:M:50:ARG:HA	1:M:53:VAL:HG12	1.58	0.84
1:M:783:SER:CA	1:M:839:LEU:HA	2.06	0.84
3:P:910:LEU:HD23	3:P:913:LEU:HD12	1.57	0.84
3:D:977:LYS:HD3	1:N:316:ALA:H	1.42	0.84
6:J:323:SER:HA	6:J:326:LEU:HD12	1.56	0.84
6:J:371:LYS:O	6:J:371:LYS:NZ	2.10	0.84
1:Z:811:ARG:HA	1:Z:836:ASP:CB	2.07	0.84
1:A:50:ARG:HA	1:A:53:VAL:HG12	1.58	0.84
1:N:207:ILE:HD12	1:N:247:GLY:HA3	1.58	0.84
3:P:537:LYS:HE2	3:P:572:LEU:HD23	1.57	0.84
6:V:365:SER:N	7:W:424:ASN:ND2	2.25	0.84
6:J:432:LEU:CB	8:L:782:ILE:CA	2.55	0.84
3:D:528:PRO:HG3	3:D:624:PHE:CD2	2.11	0.84
1:N:811:ARG:HA	1:N:836:ASP:CB	2.07	0.84
3:P:830:SER:HB3	3:P:934:SER:HB3	1.58	0.84
5:F:1037:ASN:H	5:F:1040:THR:CB	1.91	0.84
6:G:295:LYS:CG	6:J:363:LYS:NZ	2.41	0.84
6:J:365:SER:N	7:K:424:ASN:ND2	2.25	0.84
1:N:252:GLN:NE2	1:N:498:PHE:HE2	1.74	0.84
5:R:914:ASP:HA	5:R:917:PHE:HB3	1.58	0.84
4:E:687:LYS:CB	5:F:1391:GLY:CA	2.56	0.84
6:J:405:LEU:CD1	7:K:470:ALA:N	2.40	0.84
8:U:822:LYS:HZ1	8:U:822:LYS:HA	1.39	0.84
1:A:772:PRO:CB	1:A:828:THR:CG2	2.39	0.84
1:A:787:HIS:CE1	1:A:838:SER:O	2.31	0.84
4:Q:1163:LEU:O	4:Q:1167:LEU:HB2	1.78	0.84
6:S:295:LYS:CG	6:V:363:LYS:NZ	2.40	0.84
3:P:768:PRO:HA	3:P:771:TYR:HB2	1.57	0.83
6:S:295:LYS:HG2	6:V:363:LYS:HZ1	1.41	0.83
4:E:1163:LEU:O	4:E:1167:LEU:HB2	1.78	0.83
5:F:1134:LYS:C	5:F:1136:LYS:H	1.81	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:690:GLU:CG	8:U:722:LEU:HD21	2.08	0.83
1:Z:747:PHE:HA	1:Z:812:GLN:CB	2.08	0.83
3:P:734:LEU:HB3	3:P:739:THR:HG21	1.61	0.83
6:V:390:ILE:CG2	6:V:394:ILE:CG2	2.56	0.83
4:Q:687:LYS:CB	5:R:1391:GLY:CA	2.56	0.83
1:Z:756:LYS:CB	1:Z:816:TYR:CB	2.56	0.83
1:M:128:LEU:CD1	4:Q:1260:TYR:CZ	2.60	0.83
1:N:747:PHE:HA	1:N:812:GLN:CB	2.09	0.83
1:N:756:LYS:CB	1:N:816:TYR:CB	2.57	0.83
1:N:758:GLN:HE21	3:P:1377:ASN:ND2	1.76	0.83
1:Z:242:LEU:HG	1:Z:254:LEU:CD2	2.09	0.83
1:Z:252:GLN:CD	1:Z:498:PHE:HE2	1.81	0.83
1:M:787:HIS:CE1	1:M:838:SER:O	2.31	0.83
1:N:810:ALA:CB	1:N:836:ASP:C	2.37	0.83
6:J:405:LEU:CD1	7:K:469:ARG:HG2	2.08	0.83
5:R:389:LEU:H	5:R:389:LEU:HD12	1.41	0.83
5:R:1037:ASN:H	5:R:1040:THR:CB	1.91	0.83
5:F:334:GLN:HE22	5:F:859:LYS:HZ3	1.27	0.82
5:F:929:TYR:O	5:F:932:VAL:HG13	1.79	0.82
5:F:1561:LEU:HD23	5:R:1667:VAL:CG2	2.09	0.82
6:V:398:VAL:HG23	7:W:466:LEU:HD13	1.61	0.82
1:Z:46:ILE:HD12	1:Z:46:ILE:O	1.78	0.82
1:Z:753:ALA:CB	1:Z:816:TYR:HA	2.09	0.82
3:D:977:LYS:CD	1:N:316:ALA:H	1.92	0.82
6:J:405:LEU:CD1	7:K:470:ALA:CA	2.57	0.82
5:R:1134:LYS:C	5:R:1136:LYS:H	1.81	0.82
3:D:1136:ASP:HB2	1:N:203:ASN:HD22	1.44	0.82
1:N:782:ILE:CB	1:N:839:LEU:C	2.48	0.82
4:Q:923:LEU:HD11	4:Q:931:PHE:HE2	1.45	0.82
6:V:371:LYS:O	6:V:371:LYS:NZ	2.10	0.82
1:Z:753:ALA:CA	1:Z:816:TYR:CA	2.57	0.82
1:A:15:SER:HA	6:S:447:PHE:HE2	1.45	0.82
5:F:227:ASP:HA	5:F:379:SER:CB	2.10	0.82
5:F:914:ASP:HA	5:F:917:PHE:HB3	1.59	0.82
1:M:772:PRO:HB3	1:M:828:THR:CB	2.09	0.82
5:R:227:ASP:HA	5:R:379:SER:CB	2.10	0.82
6:V:405:LEU:CD1	7:W:469:ARG:HG2	2.08	0.82
7:W:400:LYS:HD2	7:W:400:LYS:O	1.80	0.82
4:E:923:LEU:HD11	4:E:931:PHE:HE2	1.44	0.82
5:F:690:GLU:CG	8:I:722:LEU:HD21	2.08	0.82
5:F:1116:VAL:CG1	5:F:1150:PHE:HE2	1.87	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:333:ILE:O	6:J:336:PHE:CA	2.28	0.82
1:N:753:ALA:HB1	1:N:816:TYR:HA	1.61	0.82
1:A:128:LEU:CD1	4:E:1260:TYR:CZ	2.60	0.82
3:D:977:LYS:CE	1:N:315:LYS:HA	2.07	0.82
1:Z:253:LEU:HD21	1:Z:498:PHE:CD2	2.14	0.82
3:D:1457:LYS:O	1:Z:651:ASP:CB	2.27	0.82
5:F:922:LEU:CD2	7:H:400:LYS:CE	2.58	0.82
1:N:46:ILE:HD12	1:N:46:ILE:O	1.78	0.82
1:N:753:ALA:CB	1:N:816:TYR:HA	2.09	0.82
6:V:405:LEU:CD1	7:W:470:ALA:CA	2.57	0.82
1:Z:753:ALA:HA	1:Z:816:TYR:CA	2.10	0.82
1:Z:782:ILE:CB	1:Z:839:LEU:C	2.48	0.82
5:F:1109:ILE:HD11	5:F:1160:TYR:OH	1.80	0.82
1:N:651:ASP:CB	3:P:1457:LYS:O	2.28	0.82
5:R:1251:ARG:HH22	5:R:1276:ASP:CB	1.92	0.82
5:F:1251:ARG:HH22	5:F:1276:ASP:CB	1.92	0.81
5:R:922:LEU:HD23	7:T:400:LYS:HE3	1.58	0.81
5:R:929:TYR:O	5:R:932:VAL:HG13	1.79	0.81
1:A:775:LEU:CB	1:A:832:LEU:CD1	2.57	0.81
2:C:1258:GLN:HG2	2:C:1299:LYS:HZ1	1.41	0.81
3:D:1377:ASN:ND2	1:Z:758:GLN:HE21	1.76	0.81
1:M:27:GLU:CB	1:Z:26:LEU:HD23	2.09	0.81
3:P:368:ILE:HB	3:P:380:TYR:HB2	1.63	0.81
5:R:1106:PHE:CD2	5:R:1164:PHE:CE2	2.69	0.81
5:R:1357:ALA:HB2	5:R:1381:LEU:CA	2.10	0.81
1:Z:753:ALA:HB1	1:Z:816:TYR:HA	1.61	0.81
1:A:46:ILE:HA	8:L:792:GLN:H	1.45	0.81
3:D:734:LEU:HB3	3:D:739:THR:HG21	1.60	0.81
6:G:470:LEU:HB2	7:H:538:LYS:HZ3	1.45	0.81
1:N:59:LYS:CB	8:U:814:LEU:CD2	2.58	0.81
1:N:255:GLU:CB	1:N:480:GLN:HE21	1.93	0.81
5:R:1068:ILE:CD1	5:R:1150:PHE:CD2	2.63	0.81
1:N:753:ALA:HA	1:N:816:TYR:CA	2.10	0.81
1:N:774:LEU:HA	1:N:777:ILE:HG22	1.63	0.81
5:R:1116:VAL:CG1	5:R:1150:PHE:HE2	1.87	0.81
5:F:334:GLN:NE2	5:F:859:LYS:HZ2	1.50	0.81
1:M:140:ILE:HG22	4:Q:1393:LYS:HZ2	1.42	0.81
6:S:430:LEU:CB	8:U:780:THR:CG2	2.58	0.81
6:V:325:TYR:CD2	7:W:390:HIS:HA	2.15	0.81
7:W:314:ASN:HB2	7:W:361:ARG:HH12	1.46	0.81
3:D:1140:LYS:HZ2	1:N:204:GLU:CB	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:430:LEU:CB	8:I:780:THR:CG2	2.58	0.81
7:K:337:GLN:O	7:K:341:LYS:HE2	1.79	0.81
7:K:400:LYS:HD2	7:K:400:LYS:O	1.80	0.81
5:F:1068:ILE:CD1	5:F:1150:PHE:CD2	2.63	0.81
1:N:753:ALA:CA	1:N:816:TYR:CA	2.57	0.81
1:Z:810:ALA:CB	1:Z:836:ASP:C	2.37	0.81
1:A:15:SER:HA	6:S:447:PHE:CE2	2.14	0.81
7:K:446:ARG:NH2	7:K:455:LYS:HZ1	1.78	0.81
1:M:775:LEU:CB	1:M:832:LEU:CD1	2.57	0.81
7:W:508:LYS:NZ	1:Z:15:SER:OG	2.14	0.81
1:M:46:ILE:HA	8:X:792:GLN:H	1.45	0.80
1:Z:774:LEU:HA	1:Z:777:ILE:HG22	1.63	0.80
1:A:772:PRO:HB3	1:A:828:THR:CB	2.09	0.80
3:D:160:ILE:HG23	3:D:191:ILE:HG21	1.64	0.80
6:V:333:ILE:O	6:V:336:PHE:CA	2.28	0.80
1:N:88:LYS:NZ	8:U:805:ARG:CB	2.45	0.80
1:N:804:ASP:O	1:N:808:ASN:HB3	1.82	0.80
5:R:935:GLN:O	5:R:937:LEU:N	2.15	0.80
7:T:412:ILE:CG2	7:T:415:LEU:HD23	2.11	0.80
7:W:337:GLN:O	7:W:341:LYS:HE2	1.79	0.80
6:V:386:ASP:HA	6:V:389:ARG:HB2	1.63	0.80
3:D:368:ILE:HB	3:D:380:TYR:HB2	1.63	0.80
8:I:805:ARG:CB	1:Z:88:LYS:NZ	2.45	0.80
8:X:643:LYS:HG3	8:X:647:GLN:HE22	1.47	0.80
5:F:1106:PHE:CD2	5:F:1164:PHE:CE2	2.69	0.80
5:F:1216:PHE:HE2	5:F:1282:ALA:HB2	1.47	0.80
7:H:412:ILE:CG2	7:H:415:LEU:HD23	2.12	0.80
6:J:333:ILE:C	6:J:336:PHE:CB	2.50	0.80
8:L:643:LYS:HG3	8:L:647:GLN:HE22	1.47	0.80
5:R:1109:ILE:HD11	5:R:1160:TYR:OH	1.80	0.80
8:I:822:LYS:HA	8:I:822:LYS:CE	2.12	0.80
6:J:369:LEU:HD13	7:K:419:LEU:HD22	1.62	0.80
1:N:824:MET:CB	1:N:825:PRO:CD	2.60	0.80
3:P:160:ILE:HG23	3:P:191:ILE:HG21	1.64	0.80
8:U:822:LYS:HA	8:U:822:LYS:CE	2.12	0.80
6:V:333:ILE:C	6:V:336:PHE:CB	2.50	0.80
6:V:369:LEU:HD13	7:W:419:LEU:HD22	1.62	0.80
5:F:1357:ALA:HB2	5:F:1381:LEU:CA	2.10	0.80
1:N:762:ASN:CA	3:P:1376:LYS:CB	2.60	0.80
7:W:310:ALA:HB3	7:W:352:ILE:HB	1.64	0.80
6:J:384:LEU:HD23	6:J:384:LEU:O	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:390:ILE:HB	8:X:762:LEU:HD11	1.62	0.79
2:C:1388:HIS:O	4:E:1331:LEU:CD1	2.31	0.79
8:I:814:LEU:CD2	1:Z:59:LYS:CB	2.59	0.79
6:J:305:ILE:HD11	8:L:668:VAL:HG12	1.61	0.79
7:K:314:ASN:HB2	7:K:361:ARG:HH12	1.46	0.79
7:K:337:GLN:O	7:K:341:LYS:CE	2.30	0.79
7:K:385:GLN:HA	7:K:385:GLN:HE21	1.47	0.79
6:V:305:ILE:HD11	8:X:668:VAL:HG12	1.61	0.79
1:Z:804:ASP:O	1:Z:808:ASN:HB3	1.81	0.79
4:E:988:ILE:O	4:E:990:LYS:N	2.16	0.79
5:R:1134:LYS:O	5:R:1136:LYS:N	2.16	0.79
5:R:1436:LYS:O	5:R:1440:ILE:HB	1.83	0.79
6:V:384:LEU:O	6:V:384:LEU:HD23	1.82	0.79
7:W:337:GLN:O	7:W:341:LYS:CE	2.30	0.79
1:Z:779:LEU:CB	1:Z:835:ILE:CB	2.60	0.79
3:P:1021:TYR:H	1:Z:249:ARG:CB	1.94	0.79
5:F:734:LEU:HD22	5:F:817:ASN:OD1	1.81	0.79
1:N:779:LEU:CB	1:N:835:ILE:CB	2.60	0.79
4:Q:988:ILE:O	4:Q:990:LYS:N	2.16	0.79
5:R:1068:ILE:CD1	5:R:1150:PHE:HD2	1.95	0.79
1:N:84:ASP:CG	6:S:449:LEU:HD23	2.03	0.79
3:P:977:LYS:CE	1:Z:316:ALA:H	1.95	0.79
6:V:390:ILE:HG22	6:V:394:ILE:CG2	2.13	0.79
5:F:935:GLN:O	5:F:937:LEU:N	2.14	0.79
7:H:423:LYS:O	8:I:735:ASN:CB	2.31	0.79
2:O:1388:HIS:O	4:Q:1331:LEU:CD1	2.31	0.79
3:D:1376:LYS:CB	1:Z:762:ASN:CA	2.60	0.79
6:J:353:LEU:HG	7:K:419:LEU:HD11	1.64	0.79
7:T:423:LYS:O	8:U:735:ASN:CB	2.31	0.79
7:T:532:ALA:HB2	8:U:818:ILE:CD1	2.12	0.79
1:Z:133:THR:CG2	1:Z:134:LYS:N	2.45	0.79
6:J:325:TYR:CD2	7:K:390:HIS:HA	2.15	0.79
6:J:388:CYS:CA	6:J:391:LEU:HB2	2.13	0.79
1:N:762:ASN:HA	3:P:1376:LYS:CB	2.13	0.79
4:Q:1022:TYR:CE2	4:Q:1026:THR:HG22	2.18	0.79
3:D:1376:LYS:CB	1:Z:762:ASN:HA	2.13	0.78
1:M:783:SER:HA	1:M:839:LEU:CA	2.12	0.78
4:Q:182:PHE:HE2	5:R:1189:MET:CB	1.96	0.78
5:R:1435:LYS:NZ	5:R:1484:ARG:NH2	2.31	0.78
6:V:333:ILE:HA	6:V:336:PHE:CB	2.14	0.78
7:W:513:LEU:HD23	7:W:513:LEU:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:116:LYS:HB3	1:Z:116:LYS:NZ	1.95	0.78
1:Z:211:LYS:HZ2	1:Z:246:ASN:CG	1.70	0.78
1:Z:824:MET:CB	1:Z:825:PRO:CD	2.60	0.78
3:D:515:VAL:HB	3:D:604:PRO:HG3	1.66	0.78
5:F:1068:ILE:CD1	5:F:1150:PHE:HD2	1.95	0.78
7:H:532:ALA:HB2	8:I:818:ILE:CD1	2.12	0.78
7:K:310:ALA:HB3	7:K:352:ILE:HB	1.64	0.78
3:P:395:PRO:HB3	3:P:418:LEU:HD23	1.65	0.78
3:P:515:VAL:HB	3:P:604:PRO:HG3	1.66	0.78
1:N:133:THR:CG2	1:N:134:LYS:N	2.46	0.78
3:P:263:VAL:HB	3:P:311:LYS:HE3	1.66	0.78
5:R:922:LEU:CD2	7:T:400:LYS:CE	2.58	0.78
5:R:1606:GLN:O	5:R:1610:ALA:HB2	1.83	0.78
6:S:470:LEU:HB2	7:T:538:LYS:HZ3	1.47	0.78
8:U:737:ASN:OD1	8:U:738:ASP:OD1	2.01	0.78
8:U:822:LYS:HA	8:U:822:LYS:NZ	1.99	0.78
6:V:398:VAL:HG23	7:W:466:LEU:HD12	1.62	0.78
1:A:775:LEU:CB	1:A:832:LEU:HD11	2.13	0.78
5:F:1035:GLY:O	5:F:1042:ILE:CB	2.32	0.78
4:E:182:PHE:HE2	5:F:1189:MET:CB	1.96	0.78
5:F:1436:LYS:O	5:F:1440:ILE:HB	1.83	0.78
5:F:1606:GLN:O	5:F:1610:ALA:HB2	1.82	0.78
3:P:1020:ASN:ND2	1:Z:252:GLN:HB3	1.98	0.78
6:V:353:LEU:HG	7:W:419:LEU:HD11	1.64	0.78
7:W:358:LEU:HD22	8:X:662:ILE:HD13	1.64	0.78
4:E:973:THR:OG1	4:E:974:GLY:N	2.14	0.78
5:F:928:LEU:H	5:F:928:LEU:CD1	1.92	0.78
6:G:449:LEU:HD23	1:Z:84:ASP:CG	2.03	0.78
1:A:140:ILE:HG22	4:E:1393:LYS:HZ3	1.47	0.78
1:N:207:ILE:CD1	1:N:247:GLY:CA	2.54	0.78
1:Z:663:ASP:O	1:Z:667:ALA:HB3	1.84	0.78
1:A:53:VAL:CG2	8:L:799:SER:OG	2.30	0.78
5:R:1035:GLY:O	5:R:1042:ILE:CB	2.32	0.78
1:A:779:LEU:CB	1:A:835:ILE:CB	2.61	0.78
3:D:1238:ARG:CA	1:Z:830:SER:HB3	2.13	0.78
4:E:1022:TYR:CE2	4:E:1026:THR:HG22	2.18	0.78
5:F:1633:TYR:CZ	5:F:1635:ARG:HB2	2.19	0.78
1:M:53:VAL:CG2	8:X:799:SER:OG	2.30	0.78
1:M:779:LEU:CB	1:M:835:ILE:CB	2.61	0.78
3:D:1137:ASP:CB	1:N:205:ASN:HB3	2.13	0.77
1:N:663:ASP:O	1:N:667:ALA:HB3	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:446:ARG:NH2	7:W:455:LYS:HZ1	1.80	0.77
1:Z:810:ALA:HB1	1:Z:835:ILE:O	1.84	0.77
2:C:1258:GLN:CG	2:C:1299:LYS:CE	2.62	0.77
3:D:445:ARG:HB2	3:D:466:LYS:HB2	1.67	0.77
6:G:327:LYS:HZ2	1:Z:46:ILE:HA	1.50	0.77
1:N:621:HIS:CE1	3:P:1468:TYR:H	2.02	0.77
6:V:387:TYR:CB	8:X:759:SER:OG	2.33	0.77
1:Z:242:LEU:O	1:Z:254:LEU:HD21	1.84	0.77
1:A:253:LEU:HD22	1:A:502:ASP:HB3	1.66	0.77
3:D:744:SER:HA	3:D:758:ASP:HB2	1.67	0.77
5:F:1435:LYS:NZ	5:F:1484:ARG:NH2	2.32	0.77
6:J:319:GLU:HA	6:J:322:THR:HG22	1.66	0.77
7:K:446:ARG:HH22	7:K:455:LYS:HZ1	1.29	0.77
7:W:359:ASN:HA	7:W:362:ASN:HD22	1.49	0.77
7:W:483:VAL:CB	7:W:493:SER:C	2.53	0.77
1:Z:91:GLN:O	1:Z:93:ASN:N	2.18	0.77
6:J:333:ILE:HA	6:J:336:PHE:CB	2.13	0.77
7:K:358:LEU:HD22	8:L:662:ILE:HD13	1.64	0.77
3:P:1020:ASN:HD21	1:Z:252:GLN:HB3	1.49	0.77
5:R:734:LEU:HD22	5:R:817:ASN:OD1	1.82	0.77
5:R:1357:ALA:CA	5:R:1381:LEU:CB	2.63	0.77
3:D:263:VAL:HB	3:D:311:LYS:HE3	1.66	0.77
6:J:390:ILE:HG21	8:L:762:LEU:HD11	1.64	0.77
1:N:91:GLN:O	1:N:93:ASN:N	2.18	0.77
7:T:412:ILE:HA	7:T:415:LEU:HB2	1.67	0.77
1:Z:768:VAL:HA	1:Z:771:ILE:HD12	1.66	0.77
8:I:737:ASN:OD1	8:I:738:ASP:OD1	2.01	0.77
6:J:388:CYS:HA	6:J:391:LEU:CD1	2.14	0.77
3:P:1137:ASP:CB	1:Z:205:ASN:CA	2.62	0.77
5:R:1633:TYR:CZ	5:R:1635:ARG:HB2	2.19	0.77
7:W:509:ILE:HG22	1:Z:12:SER:HG	1.49	0.77
3:D:395:PRO:HB3	3:D:418:LEU:HD23	1.65	0.77
3:D:1468:TYR:H	1:Z:621:HIS:CE1	2.02	0.77
5:F:1139:ILE:HG12	5:F:1291:SER:OG	1.84	0.77
6:G:295:LYS:HG2	6:J:363:LYS:HZ1	1.48	0.77
5:R:968:ILE:HG23	7:T:392:LEU:CD1	2.14	0.77
5:F:968:ILE:HG23	7:H:392:LEU:CD1	2.14	0.77
4:Q:973:THR:OG1	4:Q:974:GLY:N	2.14	0.77
7:T:412:ILE:HG23	7:T:415:LEU:HD23	1.67	0.77
1:M:775:LEU:CB	1:M:832:LEU:HD11	2.13	0.77
2:O:1258:GLN:CG	2:O:1299:LYS:CE	2.62	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:445:ARG:HB2	3:P:466:LYS:HB2	1.67	0.77
5:F:1038:LEU:O	5:F:1040:THR:N	2.18	0.76
1:M:253:LEU:HD22	1:M:502:ASP:HB3	1.67	0.76
1:N:810:ALA:HB1	1:N:835:ILE:O	1.84	0.76
1:N:810:ALA:HB2	1:N:839:LEU:CA	2.15	0.76
1:Z:810:ALA:HB2	1:Z:839:LEU:CA	2.15	0.76
1:A:140:ILE:HG22	4:E:1393:LYS:HZ2	1.50	0.76
4:E:1359:ILE:HG21	1:Z:453:VAL:HG11	1.68	0.76
1:N:146:LEU:HD12	1:N:146:LEU:O	1.85	0.76
1:N:810:ALA:C	1:N:836:ASP:CA	2.54	0.76
5:R:506:ASN:O	5:R:510:PHE:HB2	1.85	0.76
5:R:1216:PHE:HE2	5:R:1282:ALA:HB1	1.48	0.76
1:M:772:PRO:CB	1:M:828:THR:CG2	2.39	0.76
5:R:159:LYS:HE3	5:R:363:ASP:CA	2.16	0.76
5:R:1034:LEU:O	5:R:1095:LEU:HD11	1.85	0.76
5:R:1216:PHE:HE2	5:R:1282:ALA:HB2	1.47	0.76
4:Q:984:ASP:OD1	4:Q:984:ASP:N	2.17	0.76
5:R:1274:ASP:HA	5:R:1277:VAL:HB	1.67	0.76
6:V:383:LYS:HZ3	8:X:756:ASN:CB	1.94	0.76
6:V:404:ASP:O	6:V:408:ALA:HB2	1.85	0.76
1:A:128:LEU:HD13	4:E:1260:TYR:CE2	2.21	0.76
3:D:1238:ARG:HG2	1:Z:830:SER:HB2	1.66	0.76
5:F:1606:GLN:HB3	1:Z:141:ASN:HD22	1.50	0.76
7:K:359:ASN:HA	7:K:362:ASN:HD22	1.49	0.76
7:K:483:VAL:CB	7:K:493:SER:C	2.53	0.76
1:N:141:ASN:HD22	5:R:1606:GLN:HB3	1.50	0.76
6:V:319:GLU:HA	6:V:322:THR:HG22	1.66	0.76
6:V:376:LYS:NZ	8:X:756:ASN:HD22	1.84	0.76
1:Z:133:THR:HG22	1:Z:134:LYS:H	1.48	0.76
5:F:506:ASN:O	5:F:510:PHE:HB2	1.84	0.76
1:N:133:THR:HG22	1:N:134:LYS:H	1.49	0.76
7:W:313:TYR:HA	7:W:349:PRO:HB3	1.68	0.76
3:D:509:PHE:HA	3:D:517:LEU:HG	1.68	0.76
5:F:1216:PHE:HE2	5:F:1282:ALA:HB1	1.48	0.76
8:I:822:LYS:HA	8:I:822:LYS:NZ	1.99	0.76
1:N:830:SER:HB2	3:P:1238:ARG:HG2	1.66	0.76
3:P:744:SER:HA	3:P:758:ASP:HB2	1.67	0.76
5:R:1139:ILE:HG12	5:R:1291:SER:OG	1.84	0.76
5:R:1370:LEU:O	5:R:1371:ILE:HG12	1.86	0.76
6:V:398:VAL:CG2	7:W:462:ARG:O	2.30	0.76
7:W:385:GLN:HE21	7:W:385:GLN:HA	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:298:TYR:CE1	3:D:311:LYS:HE2	2.21	0.76
3:P:298:TYR:CE1	3:P:311:LYS:HE2	2.21	0.76
5:R:1038:LEU:O	5:R:1040:THR:N	2.18	0.76
3:D:977:LYS:CE	1:N:316:ALA:H	1.99	0.76
4:E:1319:LEU:HD21	4:E:1398:VAL:HG23	1.67	0.76
3:P:508:LYS:HG3	3:P:517:LEU:H	1.49	0.76
4:Q:923:LEU:HD11	4:Q:931:PHE:CE2	2.21	0.76
5:R:951:ARG:HH21	5:R:953:ASN:N	1.84	0.76
5:R:951:ARG:NH2	5:R:953:ASN:H	1.84	0.76
4:E:923:LEU:HD11	4:E:931:PHE:CE2	2.21	0.76
1:N:88:LYS:CE	8:U:805:ARG:CB	2.64	0.76
4:Q:1319:LEU:HD21	4:Q:1398:VAL:HG23	1.67	0.76
5:R:334:GLN:HE22	5:R:859:LYS:NZ	1.84	0.76
1:Z:810:ALA:C	1:Z:836:ASP:CA	2.54	0.76
3:D:1249:LEU:CB	5:F:1502:THR:O	2.34	0.75
5:F:1357:ALA:CA	5:F:1381:LEU:CB	2.63	0.75
5:F:1442:TRP:CE2	5:F:1484:ARG:HB3	2.21	0.75
6:J:376:LYS:NZ	8:L:756:ASN:HD22	1.84	0.75
7:K:321:ALA:C	7:K:348:ILE:HD11	2.06	0.75
3:P:977:LYS:CD	1:Z:316:ALA:H	1.98	0.75
8:I:805:ARG:CB	1:Z:88:LYS:CE	2.64	0.75
1:N:768:VAL:HA	1:N:771:ILE:HD12	1.67	0.75
3:D:508:LYS:HG3	3:D:517:LEU:H	1.50	0.75
5:F:159:LYS:NZ	5:F:363:ASP:CB	2.49	0.75
5:F:1550:LEU:HD21	5:F:1552:PHE:CE2	2.19	0.75
7:H:412:ILE:HA	7:H:415:LEU:HB2	1.67	0.75
7:K:313:TYR:HA	7:K:349:PRO:HB3	1.68	0.75
1:N:453:VAL:HG11	4:Q:1359:ILE:HG21	1.68	0.75
1:N:810:ALA:HB2	1:N:839:LEU:HA	1.68	0.75
1:N:826:ARG:O	3:P:1241:GLY:HA2	1.86	0.75
7:W:518:ARG:HH11	7:W:518:ARG:CB	1.96	0.75
5:F:227:ASP:CB	5:F:361:LEU:CB	2.64	0.75
5:F:1370:LEU:O	5:F:1371:ILE:HG12	1.86	0.75
6:J:365:SER:H	7:K:424:ASN:HD21	1.34	0.75
1:M:226:ARG:NH2	1:M:230:GLY:O	2.20	0.75
5:R:1116:VAL:HG11	5:R:1150:PHE:HZ	1.51	0.75
5:R:1216:PHE:CZ	5:R:1282:ALA:HA	2.22	0.75
1:Z:146:LEU:O	1:Z:146:LEU:HD12	1.85	0.75
1:A:120:ASN:OD1	6:J:413:ASN:ND2	2.20	0.75
5:F:1134:LYS:O	5:F:1136:LYS:N	2.16	0.75
7:K:538:LYS:CB	8:L:821:ILE:HG23	2.15	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:365:GLN:O	1:N:368:LEU:HB2	1.87	0.75
1:Z:810:ALA:HB2	1:Z:839:LEU:HA	1.68	0.75
1:A:192:ILE:HD12	1:A:571:LEU:HD11	1.68	0.75
1:A:783:SER:HA	1:A:839:LEU:CA	2.12	0.75
3:D:1140:LYS:HZ2	1:N:204:GLU:HA	0.95	0.75
6:J:388:CYS:CA	6:J:391:LEU:HD12	2.17	0.75
1:N:117:LYS:HB3	1:N:117:LYS:HZ1	1.49	0.75
3:P:413:LEU:HD11	3:P:444:VAL:HG11	1.69	0.75
3:D:576:LEU:HD22	3:D:601:THR:HB	1.69	0.75
5:R:159:LYS:NZ	5:R:363:ASP:CB	2.49	0.75
1:A:226:ARG:NH2	1:A:230:GLY:O	2.20	0.75
7:K:513:LEU:CD2	8:L:800:HIS:CE1	2.69	0.75
5:R:1442:TRP:CE2	5:R:1484:ARG:HB3	2.21	0.75
6:V:395:GLU:OE1	7:W:462:ARG:CB	2.34	0.75
3:D:402:ILE:HG21	3:D:406:THR:H	1.52	0.75
7:K:538:LYS:CB	8:L:821:ILE:CG2	2.64	0.75
1:N:207:ILE:HD11	1:N:247:GLY:HA3	1.64	0.75
4:Q:224:CYS:O	4:Q:228:ASN:HB2	1.87	0.75
7:W:321:ALA:C	7:W:348:ILE:HD11	2.06	0.75
7:W:517:GLN:HA	7:W:520:ILE:HB	1.68	0.75
1:Z:44:VAL:CB	1:Z:47:ASN:ND2	2.50	0.75
5:R:227:ASP:CB	5:R:361:LEU:CB	2.64	0.74
5:F:1034:LEU:O	5:F:1095:LEU:HD11	1.85	0.74
5:F:1274:ASP:HA	5:F:1277:VAL:HB	1.68	0.74
7:K:446:ARG:NH2	7:K:455:LYS:CE	2.50	0.74
1:N:44:VAL:CB	1:N:47:ASN:ND2	2.50	0.74
1:N:830:SER:HB3	3:P:1238:ARG:CA	2.13	0.74
7:T:412:ILE:CG2	7:T:415:LEU:CD2	2.62	0.74
1:Z:116:LYS:HE2	1:Z:116:LYS:O	1.87	0.74
1:A:82:ASP:OD1	1:A:82:ASP:N	2.14	0.74
1:A:137:ASP:HB2	4:E:1386:LEU:HA	1.69	0.74
3:D:1241:GLY:HA2	1:Z:826:ARG:O	1.87	0.74
7:H:420:ALA:HB1	8:I:745:TYR:HE1	1.48	0.74
1:A:22:LEU:HB3	1:N:32:LEU:HD22	1.70	0.74
1:A:233:ASP:OD2	1:A:236:ASN:ND2	2.21	0.74
5:F:1216:PHE:CZ	5:F:1282:ALA:HA	2.22	0.74
3:P:402:ILE:HG21	3:P:406:THR:H	1.51	0.74
5:R:424:SER:O	5:R:428:GLN:NE2	2.21	0.74
6:V:398:VAL:HG22	7:W:466:LEU:HD11	1.69	0.74
1:Z:810:ALA:HB1	1:Z:836:ASP:N	2.02	0.74
1:M:128:LEU:HD13	4:Q:1260:TYR:CE2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:387:GLN:HA	7:W:387:GLN:HE21	1.51	0.74
7:H:425:ARG:O	7:H:427:LEU:N	2.19	0.74
1:M:19:ASN:HA	1:M:22:LEU:HD12	1.67	0.74
1:N:116:LYS:HE2	1:N:116:LYS:O	1.88	0.74
1:N:810:ALA:HB1	1:N:836:ASP:N	2.02	0.74
3:P:509:PHE:HA	3:P:517:LEU:HG	1.68	0.74
3:P:977:LYS:HE2	1:Z:316:ALA:N	2.03	0.74
3:P:1249:LEU:CB	5:R:1502:THR:O	2.34	0.74
5:R:1550:LEU:HD21	5:R:1552:PHE:CE2	2.19	0.74
3:D:490:LYS:HE2	3:D:533:SER:HB3	1.70	0.74
6:G:431:GLN:CB	7:H:503:ASN:N	2.51	0.74
6:V:390:ILE:HG23	6:V:394:ILE:CG2	2.18	0.74
6:V:390:ILE:C	6:V:394:ILE:HG23	2.08	0.74
7:W:379:ILE:O	7:W:382:LYS:N	2.21	0.74
6:G:357:LEU:O	8:I:732:ALA:O	2.06	0.74
1:M:120:ASN:OD1	6:V:413:ASN:ND2	2.20	0.74
1:M:137:ASP:HB2	4:Q:1386:LEU:HA	1.69	0.74
1:N:822:TYR:O	1:N:828:THR:HG23	1.88	0.74
3:P:576:LEU:HD22	3:P:601:THR:HB	1.69	0.74
6:S:470:LEU:CB	7:T:538:LYS:NZ	2.50	0.74
6:J:350:PHE:CD1	7:K:419:LEU:HD12	2.23	0.74
1:Z:754:ARG:HA	1:Z:819:MET:CB	2.17	0.74
2:C:1258:GLN:HG2	2:C:1299:LYS:HE2	1.68	0.73
1:N:453:VAL:HG11	4:Q:1359:ILE:CG2	2.18	0.73
6:V:433:LYS:H	7:W:499:GLY:HA3	1.52	0.73
7:K:387:GLN:HA	7:K:387:GLN:HE21	1.51	0.73
1:N:767:ILE:O	1:N:771:ILE:N	2.20	0.73
6:S:357:LEU:O	8:U:732:ALA:O	2.06	0.73
8:U:822:LYS:HA	8:U:822:LYS:HE3	1.70	0.73
6:V:303:GLU:HG2	6:V:304:LEU:HD12	1.70	0.73
1:Z:365:GLN:O	1:Z:368:LEU:HB2	1.87	0.73
1:Z:753:ALA:HB2	1:Z:816:TYR:N	2.02	0.73
4:E:1359:ILE:CG2	1:Z:453:VAL:HG11	2.18	0.73
1:M:192:ILE:HD12	1:M:571:LEU:HD11	1.68	0.73
1:N:116:LYS:HB3	1:N:116:LYS:NZ	1.95	0.73
1:N:754:ARG:HA	1:N:819:MET:CB	2.17	0.73
1:N:127:GLN:HE21	1:N:127:GLN:CA	2.01	0.73
1:A:128:LEU:HB3	4:E:1260:TYR:HE2	1.54	0.73
3:D:750:LYS:HB2	3:D:751:PRO:HD3	1.70	0.73
3:D:1134:SER:C	1:N:206:ASN:HD22	1.89	0.73
4:E:224:CYS:O	4:E:228:ASN:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1635:ARG:O	5:F:1639:GLY:HA3	1.89	0.73
4:Q:182:PHE:CZ	5:R:1189:MET:CB	2.71	0.73
6:V:376:LYS:HD2	6:V:376:LYS:O	1.89	0.73
5:F:951:ARG:NH2	5:F:953:ASN:H	1.84	0.73
5:F:1669:LEU:CB	1:Z:145:ASN:CB	2.67	0.73
6:J:433:LYS:H	7:K:499:GLY:HA3	1.52	0.73
7:K:287:GLN:O	7:K:291:GLN:N	2.18	0.73
1:N:125:ILE:CD1	5:R:1363:ILE:HG22	2.19	0.73
7:T:426:GLY:CA	8:U:736:ASN:H	1.98	0.73
1:Z:117:LYS:HB3	1:Z:117:LYS:HZ1	1.53	0.73
1:Z:211:LYS:HZ3	1:Z:246:ASN:CG	1.89	0.73
3:D:413:LEU:HD11	3:D:444:VAL:HG11	1.69	0.73
4:E:182:PHE:CZ	5:F:1189:MET:CB	2.71	0.73
6:S:431:GLN:CB	7:T:503:ASN:N	2.51	0.73
7:W:446:ARG:NH2	7:W:455:LYS:CE	2.50	0.73
1:Z:753:ALA:CB	1:Z:815:ILE:O	2.29	0.73
3:D:155:ASN:HA	3:D:646:SER:HB3	1.71	0.73
3:D:472:VAL:HG23	3:D:474:PRO:HD2	1.71	0.73
5:F:968:ILE:CG1	7:H:392:LEU:CD1	2.65	0.73
6:J:364:ILE:HA	7:K:424:ASN:HD22	1.52	0.73
1:M:24:GLU:CB	1:Z:26:LEU:HG	2.18	0.73
1:N:753:ALA:C	1:N:816:TYR:HA	2.09	0.73
3:P:750:LYS:HB2	3:P:751:PRO:HD3	1.70	0.73
6:V:365:SER:H	7:W:424:ASN:HD21	1.34	0.73
3:D:1019:ARG:HB3	1:N:251:ALA:CB	2.09	0.73
5:F:750:TRP:CZ2	5:F:901:PRO:CB	2.70	0.73
7:K:379:ILE:O	7:K:382:LYS:N	2.21	0.73
2:O:1258:GLN:HG2	2:O:1299:LYS:HE2	1.68	0.73
5:F:1216:PHE:CE2	5:F:1282:ALA:HB2	2.23	0.73
6:G:451:MET:SD	1:M:14:THR:HG21	2.28	0.73
1:N:771:ILE:HG22	1:N:772:PRO:CD	2.19	0.73
7:W:448:GLU:OE2	7:W:448:GLU:HA	1.89	0.73
1:Z:771:ILE:HG22	1:Z:772:PRO:CD	2.19	0.73
1:A:60:ASN:N	8:L:807:LEU:CB	2.52	0.72
5:F:334:GLN:HE22	5:F:859:LYS:NZ	1.83	0.72
5:F:951:ARG:HH21	5:F:953:ASN:N	1.84	0.72
1:M:16:LYS:HG3	6:V:468:ALA:HB1	1.69	0.72
7:T:425:ARG:O	7:T:427:LEU:N	2.19	0.72
6:V:350:PHE:CD1	7:W:419:LEU:HD12	2.23	0.72
6:V:364:ILE:HA	7:W:424:ASN:HD22	1.52	0.72
1:Z:127:GLN:HE21	1:Z:127:GLN:CA	2.01	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:822:TYR:O	1:Z:828:THR:CG2	2.38	0.72
7:K:312:VAL:HG23	7:K:352:ILE:HG13	1.71	0.72
1:N:145:ASN:CB	5:R:1669:LEU:CB	2.67	0.72
1:N:822:TYR:O	1:N:828:THR:CG2	2.38	0.72
3:P:155:ASN:HA	3:P:646:SER:HB3	1.71	0.72
5:R:1633:TYR:HE2	5:R:1635:ARG:HB2	1.47	0.72
1:Z:822:TYR:O	1:Z:828:THR:HG23	1.88	0.72
5:F:159:LYS:HE3	5:F:363:ASP:CA	2.15	0.72
5:F:354:ARG:CZ	5:F:354:ARG:HB3	2.20	0.72
1:N:254:LEU:CB	1:N:258:LYS:HE2	2.14	0.72
1:N:753:ALA:HB2	1:N:816:TYR:N	2.02	0.72
5:F:1363:ILE:HG22	1:Z:125:ILE:CD1	2.19	0.72
6:J:303:GLU:HG2	6:J:304:LEU:HD12	1.70	0.72
1:Z:753:ALA:C	1:Z:816:TYR:HA	2.08	0.72
6:J:376:LYS:O	6:J:376:LYS:HD2	1.89	0.72
1:M:233:ASP:OD2	1:M:236:ASN:ND2	2.21	0.72
5:R:354:ARG:HB3	5:R:354:ARG:CZ	2.20	0.72
8:U:724:ASP:O	8:U:727:SER:HB2	1.89	0.72
5:F:1027:GLN:HG2	5:F:1036:PRO:HA	1.71	0.72
7:K:404:ARG:HA	7:K:404:ARG:HE	1.55	0.72
7:K:520:ILE:HA	7:K:523:LEU:HB2	1.71	0.72
1:M:60:ASN:N	8:X:807:LEU:CB	2.52	0.72
3:P:490:LYS:HE2	3:P:533:SER:HB3	1.70	0.72
3:D:915:GLU:OE1	3:D:980:SER:HB3	1.90	0.72
5:F:424:SER:O	5:F:428:GLN:NE2	2.21	0.72
5:F:837:TYR:CB	5:F:918:PHE:CE2	2.71	0.72
6:J:391:LEU:HD23	6:J:394:ILE:HD11	1.71	0.72
3:P:268:ILE:HG21	3:P:284:PHE:HE2	1.54	0.72
5:R:750:TRP:CZ2	5:R:901:PRO:CB	2.70	0.72
7:W:312:VAL:HG23	7:W:352:ILE:HG13	1.71	0.72
1:A:315:LYS:HE3	1:A:321:LYS:HA	1.72	0.72
8:I:724:ASP:O	8:I:727:SER:HB2	1.89	0.72
1:M:128:LEU:CD2	4:Q:1260:TYR:CD2	2.62	0.72
1:N:207:ILE:HD12	1:N:246:ASN:O	1.89	0.72
6:V:400:GLY:O	6:V:403:THR:CB	2.37	0.72
7:W:404:ARG:HA	7:W:404:ARG:HE	1.55	0.72
8:X:637:LEU:HD21	8:X:640:LEU:HD23	1.72	0.72
1:Z:18:ALA:HA	1:Z:21:LYS:HB3	1.72	0.72
1:A:634:ASP:O	1:A:636:ARG:NH1	2.22	0.72
1:M:21:LYS:C	1:M:21:LYS:HD3	2.08	0.72
3:P:472:VAL:HG23	3:P:474:PRO:HD2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:470:LEU:HB2	7:H:538:LYS:NZ	2.05	0.71
8:L:637:LEU:HD21	8:L:640:LEU:HD23	1.72	0.71
8:I:822:LYS:HA	8:I:822:LYS:HE3	1.70	0.71
7:K:378:HIS:O	7:K:381:GLU:CB	2.38	0.71
3:P:935:PHE:HD2	3:P:936:VAL:HG22	1.55	0.71
5:R:1635:ARG:O	5:R:1639:GLY:HA3	1.89	0.71
7:W:509:ILE:CG2	1:Z:12:SER:CB	2.68	0.71
1:A:775:LEU:HB3	1:A:832:LEU:HD12	1.72	0.71
1:M:59:LYS:O	8:X:807:LEU:CB	2.39	0.71
1:N:44:VAL:O	1:N:47:ASN:HB2	1.91	0.71
1:Z:252:GLN:HG3	1:Z:253:LEU:HD23	1.73	0.71
5:F:1283:LYS:HA	5:F:1283:LYS:CE	2.17	0.71
6:J:390:ILE:CG2	8:L:762:LEU:HD11	2.19	0.71
3:P:860:ILE:HG21	3:P:893:ILE:HG13	1.72	0.71
3:P:977:LYS:HD3	1:Z:316:ALA:CB	2.20	0.71
6:V:404:ASP:O	6:V:408:ALA:N	2.23	0.71
6:V:432:LEU:CB	8:X:782:ILE:HA	2.19	0.71
7:W:287:GLN:O	7:W:291:GLN:N	2.18	0.71
7:W:426:GLY:HA2	8:X:738:ASP:HB3	1.72	0.71
4:E:984:ASP:N	4:E:984:ASP:OD1	2.17	0.71
6:G:470:LEU:CB	7:H:538:LYS:NZ	2.50	0.71
7:K:448:GLU:HA	7:K:448:GLU:OE2	1.89	0.71
1:M:128:LEU:HB3	4:Q:1260:TYR:HE2	1.54	0.71
3:P:1140:LYS:HZ2	1:Z:204:GLU:CB	2.04	0.71
1:M:634:ASP:O	1:M:636:ARG:NH1	2.22	0.71
3:P:451:SER:H	3:P:458:GLU:HB3	1.55	0.71
5:R:1027:GLN:HG2	5:R:1036:PRO:HA	1.71	0.71
1:Z:746:PRO:CB	1:Z:753:ALA:N	2.53	0.71
2:C:318:ILE:H	2:C:318:ILE:CD1	1.96	0.71
3:D:451:SER:H	3:D:458:GLU:HB3	1.55	0.71
3:D:935:PHE:HD2	3:D:936:VAL:HG22	1.55	0.71
6:J:432:LEU:CB	8:L:782:ILE:HA	2.19	0.71
6:V:389:ARG:O	6:V:389:ARG:NH1	2.23	0.71
1:Z:28:SER:HA	1:Z:32:LEU:HD13	1.71	0.71
6:G:458:ALA:HB1	1:Z:32:LEU:HD11	1.73	0.71
6:V:383:LYS:HE3	8:X:759:SER:HB2	1.73	0.71
7:W:321:ALA:N	7:W:348:ILE:CD1	2.39	0.71
5:F:887:PHE:N	5:F:888:PRO:CD	2.54	0.71
8:L:800:HIS:O	8:L:804:LEU:HB3	1.90	0.71
1:M:24:GLU:HA	1:M:24:GLU:OE2	1.91	0.71
1:M:24:GLU:HA	1:Z:26:LEU:HG	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1216:PHE:CE2	5:R:1282:ALA:HB2	2.23	0.71
1:Z:746:PRO:CB	1:Z:752:SER:C	2.59	0.71
5:F:1435:LYS:CE	5:F:1484:ARG:NH2	2.53	0.71
6:J:383:LYS:HE3	8:L:759:SER:HB2	1.73	0.71
1:M:315:LYS:HE3	1:M:321:LYS:HA	1.72	0.71
1:N:254:LEU:HG	1:N:258:LYS:NZ	2.05	0.71
1:N:746:PRO:CB	1:N:752:SER:C	2.59	0.71
5:R:376:ASN:CB	5:R:381:THR:C	2.60	0.71
5:R:837:TYR:CB	5:R:918:PHE:HE2	2.04	0.71
5:R:1435:LYS:CE	5:R:1484:ARG:NH2	2.53	0.71
7:W:317:ASN:CA	7:W:346:GLN:HB3	2.21	0.71
1:Z:44:VAL:O	1:Z:47:ASN:HB2	1.91	0.71
1:Z:242:LEU:HG	1:Z:254:LEU:HD22	1.71	0.71
5:F:376:ASN:CB	5:F:382:ASP:H	2.04	0.70
6:G:296:ALA:HB2	6:J:363:LYS:HD2	1.72	0.70
1:N:753:ALA:HB2	1:N:815:ILE:C	2.08	0.70
3:P:977:LYS:HD3	1:Z:316:ALA:H	1.54	0.70
3:P:1021:TYR:N	1:Z:249:ARG:HA	2.02	0.70
5:R:1024:LEU:HA	5:R:1048:LEU:HB3	1.72	0.70
5:F:1550:LEU:CD1	5:F:1604:ILE:CD1	2.68	0.70
1:M:140:ILE:HG22	4:Q:1393:LYS:HZ3	1.54	0.70
3:P:915:GLU:OE1	3:P:980:SER:HB3	1.90	0.70
7:W:321:ALA:HA	7:W:348:ILE:HD11	1.42	0.70
1:Z:767:ILE:O	1:Z:771:ILE:N	2.20	0.70
5:F:841:PHE:CE2	5:F:918:PHE:CD1	2.79	0.70
5:F:900:LEU:C	5:F:900:LEU:HD12	2.12	0.70
1:M:775:LEU:HB3	1:M:832:LEU:HD12	1.72	0.70
1:N:453:VAL:CG2	4:Q:1356:LEU:HB2	2.21	0.70
2:O:1388:HIS:O	4:Q:1331:LEU:HD11	1.91	0.70
3:P:617:ALA:HA	3:P:630:THR:HG21	1.73	0.70
4:Q:1029:ASN:HD21	7:W:475:SER:CB	2.04	0.70
5:R:333:GLU:O	5:R:335:ASP:N	2.23	0.70
5:R:1283:LYS:HA	5:R:1283:LYS:CE	2.17	0.70
8:X:800:HIS:O	8:X:804:LEU:HB3	1.90	0.70
1:A:59:LYS:O	8:L:807:LEU:CB	2.39	0.70
3:D:528:PRO:CG	3:D:624:PHE:CE2	2.73	0.70
1:N:16:LYS:HA	1:N:19:ASN:HD22	1.57	0.70
3:P:475:GLU:O	3:P:486:GLN:NE2	2.24	0.70
2:C:318:ILE:HD12	2:C:318:ILE:N	2.01	0.70
3:D:268:ILE:HG21	3:D:284:PHE:HE2	1.54	0.70
6:J:376:LYS:HZ1	8:L:756:ASN:HD22	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:317:ASN:CA	7:K:346:GLN:HB3	2.21	0.70
1:M:133:THR:O	1:M:136:PHE:N	2.25	0.70
1:N:746:PRO:CB	1:N:753:ALA:N	2.53	0.70
5:R:837:TYR:CB	5:R:918:PHE:CE2	2.71	0.70
1:Z:753:ALA:O	1:Z:816:TYR:HA	1.92	0.70
3:D:860:ILE:HG21	3:D:893:ILE:HG13	1.72	0.70
5:F:1294:LYS:O	5:F:1295:ALA:C	2.28	0.70
1:N:753:ALA:HA	1:N:816:TYR:HA	1.72	0.70
5:R:968:ILE:HG12	7:T:392:LEU:HD13	1.74	0.70
5:R:1134:LYS:C	5:R:1136:LYS:N	2.45	0.70
6:S:296:ALA:HB2	6:V:363:LYS:HD2	1.72	0.70
7:W:378:HIS:O	7:W:381:GLU:CB	2.39	0.70
1:Z:601:PRO:HB3	1:Z:605:GLU:HB2	1.74	0.70
3:D:937:SER:HB3	3:D:941:GLN:HB2	1.73	0.70
4:E:1309:ARG:O	4:E:1313:ARG:CG	2.35	0.70
5:F:1080:LEU:HG	5:F:1156:TYR:HD2	1.56	0.70
5:F:1216:PHE:HZ	5:F:1282:ALA:HA	1.55	0.70
1:N:46:ILE:HA	6:S:327:LYS:HZ2	1.56	0.70
1:N:601:PRO:HB3	1:N:605:GLU:HB2	1.74	0.70
7:W:310:ALA:O	7:W:352:ILE:N	2.25	0.70
7:W:520:ILE:HA	7:W:523:LEU:HB2	1.72	0.70
1:Z:242:LEU:HG	1:Z:254:LEU:HD21	1.73	0.70
4:E:1029:ASN:HD21	7:K:475:SER:CB	2.04	0.70
5:F:1088:ARG:HH11	5:F:1088:ARG:HG3	1.56	0.70
1:N:255:GLU:HB2	1:N:480:GLN:NE2	2.07	0.70
4:E:1356:LEU:HB2	1:Z:453:VAL:CG2	2.22	0.70
6:G:295:LYS:CD	6:J:363:LYS:HZ3	2.05	0.70
6:J:429:LEU:HA	6:J:434:THR:H	1.57	0.70
5:R:967:THR:O	7:T:392:LEU:CD2	2.40	0.70
7:T:420:ALA:HB1	8:U:745:TYR:HE1	1.48	0.70
6:V:429:LEU:HA	6:V:434:THR:H	1.57	0.70
1:Z:753:ALA:HB2	1:Z:815:ILE:C	2.08	0.70
3:D:475:GLU:O	3:D:486:GLN:NE2	2.24	0.70
3:P:828:ILE:HD13	3:P:925:GLN:HA	1.74	0.70
5:R:376:ASN:CB	5:R:382:ASP:H	2.03	0.70
6:V:463:LYS:HE3	7:W:526:VAL:HG12	1.74	0.70
3:D:617:ALA:HA	3:D:630:THR:HG21	1.73	0.69
5:F:328:ASP:HB3	5:F:331:ILE:HD11	1.74	0.69
5:F:914:ASP:OD1	5:F:917:PHE:HB2	1.91	0.69
1:M:82:ASP:OD1	1:M:82:ASP:N	2.14	0.69
3:P:763:ASP:HB3	3:P:765:ILE:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1036:PRO:CB	5:R:1042:ILE:CB	2.70	0.69
7:K:505:ARG:HA	7:K:508:LYS:HB3	1.73	0.69
5:R:841:PHE:CE2	5:R:918:PHE:CD1	2.79	0.69
5:F:376:ASN:CB	5:F:382:ASP:N	2.55	0.69
5:F:1024:LEU:HA	5:F:1048:LEU:HB3	1.72	0.69
7:H:412:ILE:O	7:H:415:LEU:HB3	1.92	0.69
1:M:682:GLU:HG2	1:M:691:ARG:HH22	1.58	0.69
3:P:222:ASN:H	3:P:301:SER:HB2	1.57	0.69
3:P:937:SER:HB3	3:P:941:GLN:HB2	1.73	0.69
5:R:1080:LEU:HG	5:R:1156:TYR:HD2	1.56	0.69
7:T:508:LYS:HG3	7:T:510:VAL:HG13	1.75	0.69
5:F:1116:VAL:HG11	5:F:1150:PHE:HZ	1.51	0.69
7:H:508:LYS:HG3	7:H:510:VAL:HG13	1.75	0.69
3:P:528:PRO:CG	3:P:624:PHE:CE2	2.73	0.69
3:P:977:LYS:CE	1:Z:315:LYS:HA	2.20	0.69
5:R:900:LEU:C	5:R:900:LEU:HD12	2.12	0.69
6:S:470:LEU:HB2	7:T:538:LYS:NZ	2.05	0.69
3:D:763:ASP:HB3	3:D:765:ILE:HD11	1.74	0.69
7:K:310:ALA:O	7:K:352:ILE:N	2.25	0.69
1:N:46:ILE:HA	6:S:327:LYS:NZ	2.08	0.69
5:R:914:ASP:OD1	5:R:917:PHE:HB2	1.91	0.69
6:S:430:LEU:C	7:T:503:ASN:CB	2.61	0.69
5:F:1036:PRO:CB	5:F:1042:ILE:CB	2.70	0.69
6:J:389:ARG:HG2	6:J:389:ARG:HH11	1.58	0.69
1:M:669:ASP:O	1:M:724:ARG:NH2	2.25	0.69
1:N:753:ALA:O	1:N:816:TYR:HA	1.92	0.69
3:P:261:LEU:HD13	3:P:311:LYS:HB2	1.75	0.69
5:R:376:ASN:CB	5:R:382:ASP:N	2.55	0.69
7:T:412:ILE:O	7:T:415:LEU:HB3	1.92	0.69
1:Z:810:ALA:HB1	1:Z:835:ILE:C	2.12	0.69
1:A:15:SER:CA	6:S:447:PHE:CZ	2.73	0.69
1:A:301:ASN:HB3	1:A:345:LEU:HD13	1.74	0.69
1:A:775:LEU:HD13	1:A:832:LEU:HD11	1.75	0.69
5:F:1157:TRP:CD1	5:F:1160:TYR:CE1	2.81	0.69
1:N:810:ALA:HB1	1:N:835:ILE:C	2.12	0.69
1:A:775:LEU:HD13	1:A:832:LEU:CD1	2.23	0.69
3:D:828:ILE:HD13	3:D:925:GLN:HA	1.73	0.69
3:D:1019:ARG:HA	1:N:245:ALA:HB3	1.74	0.69
5:F:376:ASN:CB	5:F:381:THR:C	2.59	0.69
5:F:968:ILE:HG12	7:H:392:LEU:HD13	1.74	0.69
6:G:327:LYS:NZ	1:Z:46:ILE:HA	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:412:ILE:CG2	7:H:415:LEU:CD2	2.62	0.69
7:H:426:GLY:CA	8:I:736:ASN:H	1.97	0.69
1:M:24:GLU:CA	1:Z:26:LEU:HG	2.23	0.69
2:O:318:ILE:HD12	2:O:318:ILE:N	2.01	0.69
3:P:545:GLN:HG3	3:P:572:LEU:HD13	1.74	0.69
5:R:926:LEU:HD12	5:R:926:LEU:O	1.93	0.69
5:R:1088:ARG:HH11	5:R:1088:ARG:HG3	1.57	0.69
5:R:1294:LYS:O	5:R:1295:ALA:C	2.28	0.69
6:S:295:LYS:CD	6:V:363:LYS:HZ3	2.05	0.69
1:A:682:GLU:HG2	1:A:691:ARG:HH22	1.58	0.69
1:A:816:TYR:HA	1:A:819:MET:HG2	1.74	0.69
2:C:1388:HIS:O	4:E:1331:LEU:HD11	1.92	0.69
3:D:545:GLN:HG3	3:D:572:LEU:HD13	1.74	0.69
4:E:260:ARG:HH11	4:E:260:ARG:CG	2.05	0.69
6:J:383:LYS:HZ3	8:L:756:ASN:CB	1.95	0.69
1:N:748:SER:OG	1:N:752:SER:HB3	1.92	0.69
6:V:357:LEU:HB3	7:W:423:LYS:HE2	1.68	0.69
6:V:390:ILE:HG22	6:V:394:ILE:HG21	1.74	0.69
1:A:15:SER:HB2	6:S:447:PHE:HZ	1.48	0.69
3:D:222:ASN:H	3:D:301:SER:HB2	1.57	0.69
7:K:426:GLY:HA2	8:L:738:ASP:HB3	1.72	0.69
1:M:816:TYR:HA	1:M:819:MET:HG2	1.74	0.69
1:N:133:THR:O	1:N:136:PHE:N	2.25	0.69
5:R:968:ILE:CG1	7:T:392:LEU:CD1	2.65	0.69
8:U:738:ASP:HB2	8:U:740:LYS:HE2	1.74	0.69
1:Z:782:ILE:CB	1:Z:839:LEU:O	2.41	0.69
1:M:775:LEU:HD13	1:M:832:LEU:CD1	2.23	0.68
1:N:250:ASN:HA	1:N:253:LEU:HB2	1.74	0.68
3:P:977:LYS:CE	1:Z:316:ALA:N	2.56	0.68
8:U:821:ILE:C	8:U:821:ILE:HD13	2.13	0.68
1:Z:748:SER:OG	1:Z:752:SER:HB3	1.92	0.68
1:A:669:ASP:O	1:A:724:ARG:NH2	2.25	0.68
5:F:333:GLU:O	5:F:335:ASP:N	2.22	0.68
8:I:738:ASP:HB2	8:I:740:LYS:HE2	1.74	0.68
8:I:821:ILE:HD13	8:I:821:ILE:C	2.13	0.68
1:M:814:MET:HG2	1:M:833:ILE:HG12	1.76	0.68
3:P:1137:ASP:CB	1:Z:205:ASN:HB3	2.24	0.68
5:R:1157:TRP:CD1	5:R:1160:TYR:CE1	2.81	0.68
5:F:926:LEU:HD12	5:F:926:LEU:O	1.93	0.68
6:G:396:THR:CB	1:Z:89:ASP:OD2	2.41	0.68
1:M:775:LEU:HD13	1:M:832:LEU:HD11	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1398:VAL:O	4:Q:1398:VAL:CG1	2.41	0.68
5:R:376:ASN:CB	5:R:381:THR:N	2.55	0.68
5:R:750:TRP:HE1	5:R:754:ASP:HB2	1.59	0.68
1:A:814:MET:HG2	1:A:833:ILE:HG12	1.75	0.68
6:G:430:LEU:C	7:H:503:ASN:CB	2.61	0.68
1:N:89:ASP:OD2	6:S:396:THR:CB	2.41	0.68
1:N:782:ILE:CB	1:N:839:LEU:O	2.41	0.68
3:P:1134:SER:HB3	1:Z:206:ASN:HD22	1.55	0.68
5:F:376:ASN:CB	5:F:381:THR:N	2.55	0.68
6:J:388:CYS:SG	7:K:453:LEU:CA	2.82	0.68
1:N:46:ILE:CA	6:S:327:LYS:NZ	2.57	0.68
5:R:328:ASP:HB3	5:R:331:ILE:HD11	1.74	0.68
7:W:483:VAL:H	7:W:493:SER:C	1.96	0.68
5:F:922:LEU:HD23	7:H:400:LYS:HZ1	1.54	0.68
5:F:1558:ASP:C	5:R:1681:ASN:CB	2.61	0.68
1:M:23:ASN:HA	1:M:26:LEU:HD12	1.74	0.68
5:R:1216:PHE:HZ	5:R:1282:ALA:HA	1.55	0.68
6:S:289:GLN:OE1	6:V:352:VAL:HA	1.94	0.68
3:D:977:LYS:HE2	1:N:316:ALA:N	2.09	0.68
6:G:289:GLN:OE1	6:J:352:VAL:HA	1.94	0.68
7:W:509:ILE:CG2	1:Z:12:SER:OG	2.34	0.68
3:D:421:VAL:HG21	3:D:490:LYS:HB3	1.74	0.68
7:K:483:VAL:H	7:K:493:SER:C	1.96	0.68
5:R:661:VAL:HG11	5:R:712:LEU:CD1	2.23	0.68
5:R:1550:LEU:CD1	5:R:1604:ILE:CD1	2.68	0.68
5:F:320:GLU:OE1	5:F:351:HIS:CE1	2.47	0.68
5:F:661:VAL:HG11	5:F:712:LEU:CD1	2.23	0.68
5:F:1633:TYR:HE2	5:F:1635:ARG:HB2	1.47	0.68
6:J:388:CYS:SG	7:K:453:LEU:C	2.72	0.68
8:L:728:THR:HB	8:L:734:ALA:HB2	1.76	0.68
1:N:774:LEU:HD23	1:N:774:LEU:C	2.14	0.68
7:W:308:LEU:HD13	7:W:355:PHE:HE2	1.58	0.68
1:Z:774:LEU:HD23	1:Z:774:LEU:C	2.14	0.68
1:A:133:THR:O	1:A:136:PHE:N	2.25	0.68
1:A:364:GLU:OE1	1:A:408:ARG:NH1	2.26	0.68
5:F:967:THR:O	7:H:392:LEU:CD2	2.40	0.68
5:R:1303:LEU:HD13	5:R:1303:LEU:O	1.94	0.68
1:A:57:ARG:HG2	1:A:57:ARG:NH1	2.01	0.67
1:A:128:LEU:CD2	4:E:1260:TYR:CD2	2.62	0.67
3:D:261:LEU:HD13	3:D:311:LYS:HB2	1.75	0.67
5:F:1303:LEU:O	5:F:1303:LEU:HD13	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:364:GLU:OE1	1:M:408:ARG:NH1	2.26	0.67
3:P:421:VAL:HG21	3:P:490:LYS:HB3	1.74	0.67
7:W:451:ALA:HB3	7:W:453:LEU:HD12	1.76	0.67
1:Z:211:LYS:NZ	1:Z:246:ASN:ND2	2.42	0.67
6:J:297:ASP:OD2	7:K:362:ASN:ND2	2.27	0.67
7:K:451:ALA:HB3	7:K:453:LEU:HD12	1.76	0.67
3:P:1021:TYR:N	1:Z:249:ARG:CB	2.56	0.67
1:A:249:ARG:NH1	1:A:494:TYR:OH	2.27	0.67
5:F:249:ASP:OD2	5:F:295:ARG:NH1	2.27	0.67
5:F:667:SER:HA	5:F:670:LYS:HB3	1.76	0.67
6:G:327:LYS:NZ	1:Z:46:ILE:CA	2.57	0.67
7:K:308:LEU:HD13	7:K:355:PHE:HE2	1.58	0.67
1:N:87:ILE:HD13	1:N:87:ILE:N	2.10	0.67
3:P:292:ASN:ND2	3:P:380:TYR:OH	2.28	0.67
5:R:320:GLU:OE1	5:R:351:HIS:CE1	2.47	0.67
7:T:412:ILE:O	7:T:415:LEU:CB	2.42	0.67
6:G:295:LYS:CG	6:J:363:LYS:HZ3	2.07	0.67
6:J:357:LEU:CB	7:K:423:LYS:CE	2.43	0.67
2:O:784:ALA:HB3	3:P:1357:LYS:H	1.59	0.67
6:V:390:ILE:O	6:V:394:ILE:N	2.19	0.67
1:Z:746:PRO:O	1:Z:812:GLN:C	2.33	0.67
5:F:750:TRP:HE1	5:F:754:ASP:HB2	1.59	0.67
1:M:249:ARG:NH1	1:M:494:TYR:OH	2.27	0.67
1:N:724:ARG:NH1	1:N:724:ARG:O	2.27	0.67
5:R:928:LEU:H	5:R:928:LEU:CD1	1.92	0.67
6:V:297:ASP:OD2	7:W:362:ASN:ND2	2.28	0.67
3:D:235:SER:HB2	3:D:240:LEU:HD13	1.77	0.67
6:J:380:TYR:CE2	8:L:751:LEU:CD2	2.68	0.67
1:N:29:SER:HA	1:N:32:LEU:HG	1.75	0.67
1:N:810:ALA:HB2	1:N:839:LEU:CB	2.24	0.67
5:R:926:LEU:HD12	5:R:926:LEU:C	2.15	0.67
5:R:1359:PHE:CE1	5:R:1363:ILE:HG23	2.29	0.67
5:F:1359:PHE:CE1	5:F:1363:ILE:HG23	2.29	0.67
7:H:412:ILE:O	7:H:415:LEU:CB	2.42	0.67
6:J:364:ILE:CA	7:K:424:ASN:HD22	2.07	0.67
1:N:644:TYR:HB3	1:N:653:VAL:HG22	1.77	0.67
6:V:365:SER:N	7:W:424:ASN:HD22	1.91	0.67
7:W:520:ILE:HA	7:W:523:LEU:HD12	1.75	0.67
7:K:513:LEU:CD2	8:L:800:HIS:HE1	2.08	0.67
1:Z:724:ARG:NH1	1:Z:724:ARG:O	2.27	0.67
2:C:784:ALA:HB3	3:D:1357:LYS:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:977:LYS:CE	1:N:316:ALA:N	2.57	0.67
6:G:295:LYS:C	6:J:363:LYS:NZ	2.48	0.67
1:N:49:LEU:CG	6:S:331:LYS:HE2	2.25	0.67
4:Q:440:ILE:HG12	4:Q:590:LEU:HD13	1.77	0.67
7:T:527:LEU:HD23	7:T:527:LEU:C	2.15	0.67
8:U:739:GLN:C	8:U:741:ARG:H	1.97	0.67
7:W:326:LYS:CB	7:W:327:PRO:CD	2.72	0.67
1:Z:133:THR:O	1:Z:136:PHE:N	2.25	0.67
3:D:292:ASN:ND2	3:D:380:TYR:OH	2.28	0.67
5:F:837:TYR:CB	5:F:918:PHE:HE2	2.04	0.67
5:F:1134:LYS:C	5:F:1136:LYS:N	2.45	0.67
7:K:326:LYS:CB	7:K:327:PRO:CD	2.72	0.67
1:M:301:ASN:HB3	1:M:345:LEU:HD13	1.74	0.67
1:N:252:GLN:CD	1:N:498:PHE:CD2	2.67	0.67
5:R:667:SER:HA	5:R:670:LYS:HB3	1.76	0.67
5:R:1559:LEU:C	5:R:1559:LEU:HD12	2.14	0.67
7:T:418:GLN:HE22	8:U:718:THR:CG2	2.03	0.67
1:M:218:ILE:HD11	1:M:241:ILE:HD12	1.77	0.66
3:P:235:SER:HB2	3:P:240:LEU:HD13	1.77	0.66
3:P:583:TYR:HE2	3:P:628:PHE:HB2	1.59	0.66
7:W:509:ILE:C	7:W:509:ILE:HD12	2.15	0.66
5:F:926:LEU:HD12	5:F:926:LEU:C	2.15	0.66
5:R:860:ASN:HD22	5:R:861:GLN:HG3	1.59	0.66
7:W:355:PHE:HD1	7:W:358:LEU:HD12	1.60	0.66
8:X:728:THR:HB	8:X:734:ALA:HB2	1.76	0.66
1:Z:810:ALA:HB2	1:Z:839:LEU:CB	2.24	0.66
7:H:527:LEU:HD23	7:H:527:LEU:C	2.15	0.66
7:K:538:LYS:C	8:L:822:LYS:CB	2.64	0.66
1:N:49:LEU:HD12	6:S:331:LYS:CE	2.19	0.66
1:N:746:PRO:CB	1:N:752:SER:O	2.44	0.66
5:R:334:GLN:CB	5:R:860:ASN:CG	2.59	0.66
6:S:295:LYS:C	6:V:363:LYS:HZ2	1.99	0.66
7:W:429:LEU:C	7:W:429:LEU:HD12	2.15	0.66
3:D:583:TYR:HE2	3:D:628:PHE:HB2	1.59	0.66
3:D:753:PRO:HD2	3:D:756:LYS:HD2	1.77	0.66
4:E:440:ILE:HG12	4:E:590:LEU:HD13	1.77	0.66
7:K:429:LEU:C	7:K:429:LEU:HD12	2.15	0.66
5:R:249:ASP:OD2	5:R:295:ARG:NH1	2.28	0.66
5:R:690:GLU:OE1	8:U:722:LEU:HD23	1.95	0.66
5:R:1128:ASP:OD2	5:R:1206:ILE:HG23	1.96	0.66
7:T:532:ALA:CB	8:U:818:ILE:HD12	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:746:PRO:O	1:N:812:GLN:C	2.32	0.66
5:R:336:LYS:NZ	5:R:703:TYR:OH	2.29	0.66
5:R:350:ARG:O	5:R:393:SER:HB2	1.94	0.66
5:R:555:TRP:HB2	5:R:633:LYS:HD3	1.77	0.66
5:R:883:VAL:O	8:U:761:ASN:ND2	2.28	0.66
5:R:887:PHE:N	5:R:888:PRO:CD	2.54	0.66
7:T:404:ARG:O	7:T:408:ILE:HB	1.96	0.66
1:A:218:ILE:HD11	1:A:241:ILE:HD12	1.78	0.66
5:F:860:ASN:HD22	5:F:861:GLN:HG3	1.59	0.66
6:G:331:LYS:HE2	1:Z:49:LEU:CG	2.25	0.66
6:J:388:CYS:HA	6:J:391:LEU:CB	2.25	0.66
6:S:295:LYS:C	6:V:363:LYS:NZ	2.48	0.66
5:F:690:GLU:OE1	8:I:722:LEU:HD23	1.95	0.66
7:K:399:LEU:HD12	7:K:399:LEU:O	1.96	0.66
5:R:690:GLU:OE2	8:U:722:LEU:HD21	1.96	0.66
5:R:711:GLN:OE1	5:R:779:PRO:CA	2.44	0.66
7:W:387:GLN:HA	7:W:387:GLN:NE2	2.11	0.66
3:D:611:LEU:HD11	3:D:640:ALA:HB2	1.78	0.66
6:J:365:SER:N	7:K:424:ASN:HD22	1.91	0.66
3:P:260:HIS:CG	3:P:261:LEU:HA	2.31	0.66
3:P:915:GLU:OE1	3:P:980:SER:CB	2.44	0.66
5:R:809:LEU:HG	5:R:810:VAL:HG13	1.77	0.66
3:D:260:HIS:CG	3:D:261:LEU:HA	2.31	0.66
5:F:883:VAL:O	8:I:761:ASN:ND2	2.28	0.66
1:N:254:LEU:O	1:N:258:LYS:N	2.21	0.66
4:Q:1405:ASN:HB3	4:Q:1455:PRO:HG2	1.78	0.66
5:R:355:LEU:HD12	5:R:355:LEU:N	2.11	0.66
5:R:690:GLU:OE1	8:U:722:LEU:CD2	2.44	0.66
5:R:1116:VAL:CG1	5:R:1150:PHE:CZ	2.64	0.66
5:R:1642:LYS:HA	5:R:1645:LEU:HD23	1.77	0.66
7:W:352:ILE:HG21	7:W:358:LEU:HG	1.77	0.66
4:E:209:VAL:O	4:E:213:PHE:CB	2.44	0.66
5:F:711:GLN:OE1	5:F:779:PRO:CA	2.44	0.66
7:H:532:ALA:CB	8:I:818:ILE:HD12	2.20	0.66
6:J:333:ILE:CA	6:J:336:PHE:CB	2.74	0.66
8:U:786:ASN:O	8:U:786:ASN:ND2	2.29	0.66
6:V:357:LEU:CB	7:W:423:LYS:CE	2.43	0.66
5:F:1642:LYS:HA	5:F:1645:LEU:HD23	1.77	0.65
5:R:1424:GLU:O	5:R:1428:GLN:HB2	1.96	0.65
6:V:333:ILE:CA	6:V:336:PHE:CB	2.74	0.65
6:V:339:LEU:CB	7:W:405:ASN:OD1	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:509:ILE:HG22	1:Z:12:SER:CB	2.25	0.65
1:Z:87:ILE:HD13	1:Z:87:ILE:N	2.10	0.65
1:A:27:GLU:HB3	6:J:467:LEU:CD2	2.25	0.65
5:F:1314:VAL:HG11	5:F:1373:ASP:HB3	1.78	0.65
7:K:404:ARG:HG3	8:L:704:GLN:NE2	2.11	0.65
3:P:753:PRO:HD2	3:P:756:LYS:HD2	1.77	0.65
6:S:296:ALA:HA	6:V:363:LYS:HE3	1.79	0.65
6:V:334:SER:O	6:V:337:LYS:N	2.27	0.65
6:V:376:LYS:HZ1	8:X:756:ASN:HD22	1.42	0.65
7:W:399:LEU:HD12	7:W:399:LEU:O	1.96	0.65
3:D:863:ILE:HG21	3:D:887:GLN:HA	1.79	0.65
5:F:1303:LEU:O	5:F:1303:LEU:HD22	1.96	0.65
5:F:1442:TRP:CD2	5:F:1484:ARG:HD2	2.31	0.65
7:H:404:ARG:O	7:H:408:ILE:HB	1.96	0.65
6:J:370:ASP:HA	6:J:373:PHE:HB2	1.78	0.65
7:K:387:GLN:HA	7:K:387:GLN:NE2	2.11	0.65
1:N:49:LEU:HD22	1:N:49:LEU:C	2.15	0.65
1:N:116:LYS:HE2	1:N:116:LYS:C	2.17	0.65
5:R:1314:VAL:HG11	5:R:1373:ASP:HB3	1.78	0.65
1:Z:644:TYR:HB3	1:Z:653:VAL:HG22	1.77	0.65
5:F:555:TRP:HB2	5:F:633:LYS:HD3	1.77	0.65
5:F:809:LEU:HG	5:F:810:VAL:HG13	1.77	0.65
5:F:1116:VAL:CG1	5:F:1150:PHE:CZ	2.64	0.65
5:F:1435:LYS:HZ3	5:F:1484:ARG:NH2	1.93	0.65
7:K:291:GLN:HA	7:K:294:LYS:HB2	1.79	0.65
3:P:362:ASP:HB2	3:P:369:TYR:HE2	1.62	0.65
6:V:398:VAL:HG11	7:W:462:ARG:CB	2.26	0.65
1:Z:746:PRO:CB	1:Z:752:SER:O	2.44	0.65
3:D:580:VAL:O	3:D:595:ASN:N	2.29	0.65
5:F:355:LEU:N	5:F:355:LEU:HD12	2.11	0.65
6:G:449:LEU:HD21	1:Z:84:ASP:O	1.97	0.65
7:K:527:LEU:O	7:K:531:ALA:CB	2.45	0.65
1:N:196:ASN:HD21	1:N:530:ARG:HE	1.44	0.65
3:P:943:ASP:O	3:P:947:LEU:HG	1.97	0.65
5:R:22:PHE:O	5:R:26:LYS:NZ	2.30	0.65
5:R:389:LEU:HD12	5:R:389:LEU:N	2.10	0.65
3:D:454:ARG:HB3	3:D:455:PHE:HD1	1.62	0.65
1:N:84:ASP:O	6:S:449:LEU:HD21	1.97	0.65
1:N:824:MET:N	1:N:824:MET:SD	2.70	0.65
1:N:827:GLU:HA	1:N:827:GLU:OE2	1.97	0.65
3:P:611:LEU:HD11	3:P:640:ALA:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:914:ASP:CA	5:R:917:PHE:HB3	2.26	0.65
7:W:404:ARG:HG3	8:X:704:GLN:NE2	2.11	0.65
3:D:449:ASN:HD22	3:D:463:GLU:HG2	1.61	0.65
5:F:1128:ASP:OD2	5:F:1206:ILE:HG23	1.96	0.65
6:G:430:LEU:CB	8:I:780:THR:CB	2.75	0.65
1:M:192:ILE:HA	1:M:195:SER:HB3	1.79	0.65
4:Q:209:VAL:O	4:Q:213:PHE:CB	2.44	0.65
6:S:430:LEU:CB	8:U:780:THR:CB	2.75	0.65
3:D:971:ILE:HD11	3:D:984:THR:CB	2.26	0.65
6:G:296:ALA:HA	6:J:363:LYS:HE3	1.78	0.65
8:I:786:ASN:O	8:I:786:ASN:ND2	2.29	0.65
3:P:971:ILE:HD11	3:P:984:THR:CB	2.26	0.65
6:S:295:LYS:CG	6:V:363:LYS:HZ3	2.10	0.65
3:D:943:ASP:O	3:D:947:LEU:HG	1.96	0.65
4:E:1405:ASN:HB3	4:E:1455:PRO:HG2	1.78	0.65
5:F:22:PHE:O	5:F:26:LYS:NZ	2.30	0.65
5:F:900:LEU:HD12	5:F:900:LEU:O	1.97	0.65
7:K:352:ILE:HG21	7:K:358:LEU:HG	1.78	0.65
1:M:28:SER:CB	1:Z:23:ASN:CB	2.75	0.65
1:M:57:ARG:HH11	1:M:57:ARG:CG	2.09	0.65
1:N:146:LEU:HD12	1:N:146:LEU:C	2.17	0.65
1:N:762:ASN:N	3:P:1376:LYS:CB	2.60	0.65
3:P:377:ILE:HD11	3:P:420:ILE:HD13	1.79	0.65
3:P:412:ILE:HG13	3:P:413:LEU:HD12	1.79	0.65
5:R:844:VAL:HG22	5:R:862:ALA:HA	1.79	0.65
5:R:922:LEU:HD23	7:T:400:LYS:HZ2	1.59	0.65
8:U:792:GLN:HB2	8:U:795:LYS:HG3	1.79	0.65
1:Z:410:ALA:HB2	1:Z:428:VAL:HG11	1.79	0.65
1:Z:804:ASP:O	1:Z:808:ASN:CB	2.45	0.65
1:A:192:ILE:HA	1:A:195:SER:HB3	1.79	0.65
3:D:362:ASP:HB2	3:D:369:TYR:HE2	1.61	0.65
3:D:915:GLU:OE1	3:D:980:SER:CB	2.44	0.65
3:D:1376:LYS:CB	1:Z:762:ASN:N	2.60	0.65
5:F:690:GLU:OE1	8:I:722:LEU:CD2	2.44	0.65
8:I:792:GLN:HB2	8:I:795:LYS:HG3	1.79	0.65
6:J:339:LEU:CB	7:K:405:ASN:OD1	2.44	0.65
7:K:513:LEU:HD21	8:L:800:HIS:HE1	1.54	0.65
3:P:919:VAL:HG21	3:P:927:LEU:H	1.62	0.65
5:R:902:LYS:CE	7:T:414:LYS:CD	2.46	0.65
5:R:1088:ARG:HG3	5:R:1088:ARG:NH1	2.12	0.65
1:Z:116:LYS:HE2	1:Z:116:LYS:C	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:249:ASP:O	5:F:253:LYS:HB2	1.98	0.64
5:F:350:ARG:O	5:F:393:SER:HB2	1.94	0.64
5:F:690:GLU:OE2	8:I:722:LEU:HD21	1.96	0.64
6:G:350:PHE:CE2	7:H:418:GLN:NE2	2.65	0.64
3:P:581:PRO:HA	3:P:594:GLU:HA	1.79	0.64
4:Q:1022:TYR:O	4:Q:1026:THR:CG2	2.41	0.64
5:R:1303:LEU:O	5:R:1303:LEU:HD22	1.96	0.64
8:U:795:LYS:HZ2	8:U:795:LYS:C	2.00	0.64
1:Z:827:GLU:HA	1:Z:827:GLU:OE2	1.97	0.64
5:F:336:LYS:NZ	5:F:703:TYR:OH	2.29	0.64
5:F:382:ASP:HB3	5:F:386:GLY:H	1.62	0.64
8:I:643:LYS:HG3	8:I:647:GLN:HE22	1.63	0.64
5:R:249:ASP:O	5:R:253:LYS:HB2	1.98	0.64
5:R:1283:LYS:O	5:R:1284:SER:C	2.32	0.64
6:V:377:ILE:HG22	6:V:378:HIS:HD2	1.62	0.64
1:Z:49:LEU:HD22	1:Z:49:LEU:C	2.15	0.64
4:E:1319:LEU:HD21	4:E:1398:VAL:HG22	1.79	0.64
5:F:844:VAL:HG22	5:F:862:ALA:HA	1.80	0.64
5:F:1088:ARG:HG3	5:F:1088:ARG:NH1	2.12	0.64
7:K:355:PHE:HD1	7:K:358:LEU:HD12	1.60	0.64
1:M:449:GLU:O	1:M:456:ARG:NH2	2.31	0.64
1:N:410:ALA:HB2	1:N:428:VAL:HG11	1.79	0.64
3:P:449:ASN:HD22	3:P:463:GLU:HG2	1.61	0.64
3:P:454:ARG:HB3	3:P:455:PHE:HD1	1.62	0.64
5:R:1297:GLU:OE1	5:R:1297:GLU:HA	1.96	0.64
5:R:1442:TRP:CD2	5:R:1484:ARG:HD2	2.31	0.64
5:R:1635:ARG:O	5:R:1639:GLY:CA	2.46	0.64
6:S:350:PHE:CE2	7:T:418:GLN:NE2	2.65	0.64
1:Z:590:LEU:HD23	1:Z:604:ILE:HG21	1.80	0.64
3:D:260:HIS:CD2	3:D:261:LEU:HD23	2.33	0.64
5:F:914:ASP:CA	5:F:917:PHE:HB3	2.27	0.64
5:F:1084:LEU:HA	5:F:1156:TYR:HH	1.60	0.64
5:F:1297:GLU:OE1	5:F:1297:GLU:HA	1.96	0.64
4:Q:687:LYS:CB	5:R:1391:GLY:HA2	2.27	0.64
5:R:900:LEU:HD12	5:R:900:LEU:O	1.96	0.64
1:A:449:GLU:O	1:A:456:ARG:NH2	2.31	0.64
7:K:505:ARG:O	7:K:509:ILE:N	2.28	0.64
1:N:590:LEU:HD23	1:N:604:ILE:HG21	1.80	0.64
6:V:322:THR:O	6:V:326:LEU:HG	1.98	0.64
7:W:419:LEU:O	7:W:419:LEU:HD23	1.97	0.64
2:C:885:VAL:HG13	2:C:901:ILE:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:919:VAL:HG21	3:D:927:LEU:H	1.62	0.64
1:M:57:ARG:HG2	1:M:57:ARG:NH1	2.01	0.64
3:P:977:LYS:HE2	1:Z:316:ALA:H	1.57	0.64
3:P:977:LYS:HD3	1:Z:316:ALA:HB3	1.80	0.64
1:Z:824:MET:SD	1:Z:824:MET:N	2.70	0.64
1:A:210:GLU:O	1:A:213:GLU:N	2.31	0.64
3:D:529:GLY:O	3:D:581:PRO:HD3	1.98	0.64
3:D:977:LYS:HD3	1:N:316:ALA:CB	2.27	0.64
4:E:1022:TYR:O	4:E:1026:THR:CG2	2.41	0.64
5:F:442:ILE:HG23	5:F:443:ILE:HG13	1.80	0.64
8:I:731:GLY:C	8:I:733:ALA:H	2.01	0.64
6:J:377:ILE:HG22	6:J:378:HIS:HD2	1.62	0.64
1:M:210:GLU:O	1:M:213:GLU:N	2.31	0.64
5:R:38:ASN:HD22	5:R:41:LYS:HB2	1.63	0.64
5:R:177:GLN:NE2	5:R:178:ASN:OD1	2.31	0.64
4:E:687:LYS:CB	5:F:1391:GLY:HA2	2.27	0.64
5:F:177:GLN:NE2	5:F:178:ASN:OD1	2.31	0.64
5:F:389:LEU:HD12	5:F:389:LEU:N	2.11	0.64
5:F:718:SER:O	5:F:722:ARG:NH2	2.30	0.64
1:M:776:ILE:HG23	1:M:831:THR:HG22	1.79	0.64
1:N:92:THR:O	1:N:92:THR:OG1	2.15	0.64
3:P:260:HIS:CD2	3:P:261:LEU:HD23	2.33	0.64
3:P:863:ILE:HG21	3:P:887:GLN:HA	1.79	0.64
5:R:159:LYS:HZ2	5:R:363:ASP:CB	2.09	0.64
5:R:382:ASP:HB3	5:R:386:GLY:H	1.62	0.64
1:Z:577:ARG:HH21	1:Z:630:ARG:HE	1.46	0.64
1:Z:821:GLN:CB	1:Z:829:TYR:CB	2.76	0.64
5:F:1424:GLU:O	5:F:1428:GLN:HB2	1.97	0.64
1:N:45:SER:O	1:N:48:GLU:N	2.31	0.64
3:P:483:HIS:HB2	3:P:486:GLN:CG	2.28	0.64
8:U:643:LYS:HG3	8:U:647:GLN:HE22	1.63	0.64
1:Z:12:SER:OG	1:Z:15:SER:OG	2.16	0.64
5:F:1216:PHE:CE2	5:F:1282:ALA:HB1	2.29	0.64
6:G:331:LYS:CE	1:Z:49:LEU:HD12	2.20	0.64
1:M:775:LEU:CB	1:M:832:LEU:HD12	2.28	0.64
2:O:885:VAL:HG13	2:O:901:ILE:HG23	1.79	0.64
7:W:291:GLN:HA	7:W:294:LYS:HB2	1.79	0.64
1:A:772:PRO:CA	1:A:828:THR:CG2	2.72	0.63
4:E:1377:ASN:CB	4:E:1380:ASP:CB	2.76	0.63
5:F:321:GLN:HA	5:F:324:ILE:HG12	1.81	0.63
5:F:1309:LEU:O	5:F:1309:LEU:HD22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1633:TYR:CE2	5:F:1635:ARG:CB	2.60	0.63
6:J:334:SER:O	6:J:337:LYS:N	2.27	0.63
1:M:92:THR:O	6:V:400:GLY:C	2.37	0.63
1:N:125:ILE:HD12	5:R:1363:ILE:CG2	2.28	0.63
1:N:821:GLN:CB	1:N:829:TYR:CB	2.76	0.63
3:P:1020:ASN:ND2	1:Z:252:GLN:CB	2.60	0.63
3:P:1494:ASN:O	5:R:1471:LYS:HE2	1.98	0.63
4:Q:1377:ASN:CB	4:Q:1380:ASP:CB	2.76	0.63
5:R:1314:VAL:HG23	5:R:1314:VAL:O	1.98	0.63
7:W:518:ARG:NH1	7:W:518:ARG:O	2.31	0.63
1:A:776:ILE:HG23	1:A:831:THR:HG22	1.79	0.63
6:J:322:THR:O	6:J:326:LEU:HG	1.98	0.63
1:M:60:ASN:CB	8:X:803:ALA:O	2.47	0.63
1:N:310:ASP:HA	1:N:314:LYS:HB3	1.80	0.63
5:R:101:ASN:OD1	5:R:105:GLN:NE2	2.31	0.63
5:R:656:VAL:HG13	5:R:657:ILE:HG13	1.80	0.63
3:D:977:LYS:HE2	1:N:315:LYS:CB	2.28	0.63
4:E:1418:LEU:HG	4:E:1421:ILE:HD12	1.81	0.63
5:F:101:ASN:OD1	5:F:105:GLN:NE2	2.31	0.63
5:F:902:LYS:CE	7:H:414:LYS:CD	2.46	0.63
5:F:1084:LEU:CA	5:F:1156:TYR:OH	2.25	0.63
5:F:1543:LEU:C	5:F:1543:LEU:HD12	2.18	0.63
1:M:313:LEU:HD11	1:M:339:TYR:HE2	1.64	0.63
1:M:654:ILE:HD11	1:M:696:TYR:HD2	1.63	0.63
8:U:731:GLY:C	8:U:733:ALA:H	2.01	0.63
7:W:508:LYS:HZ1	1:Z:16:LYS:HB2	1.62	0.63
3:D:581:PRO:HA	3:D:594:GLU:HA	1.79	0.63
3:D:1494:ASN:O	5:F:1471:LYS:HE2	1.98	0.63
1:N:804:ASP:O	1:N:808:ASN:CB	2.45	0.63
5:R:1309:LEU:HD22	5:R:1309:LEU:O	1.98	0.63
5:R:1633:TYR:CE2	5:R:1635:ARG:CB	2.60	0.63
6:V:364:ILE:CA	7:W:424:ASN:HD22	2.07	0.63
6:V:405:LEU:HD11	7:W:470:ALA:N	2.11	0.63
7:W:365:GLN:HB3	8:X:669:LEU:HD13	1.81	0.63
1:Z:45:SER:O	1:Z:48:GLU:N	2.31	0.63
3:D:377:ILE:HD11	3:D:420:ILE:HD13	1.79	0.63
5:F:841:PHE:HD2	5:F:918:PHE:HE1	0.69	0.63
5:F:971:SER:HB3	7:H:392:LEU:HD21	1.80	0.63
5:F:1283:LYS:O	5:F:1284:SER:C	2.32	0.63
5:F:1363:ILE:CG2	1:Z:125:ILE:HD12	2.28	0.63
7:H:511:GLU:CB	8:I:800:HIS:CE1	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:315:LEU:HD23	8:L:679:LEU:HG	1.81	0.63
1:N:44:VAL:O	1:N:47:ASN:CB	2.46	0.63
3:P:529:GLY:O	3:P:581:PRO:HD3	1.98	0.63
5:R:442:ILE:HG23	5:R:443:ILE:HG13	1.80	0.63
5:R:1084:LEU:CA	5:R:1156:TYR:OH	2.25	0.63
1:A:654:ILE:HD11	1:A:696:TYR:HD2	1.63	0.63
5:F:36:ASN:HD22	5:F:110:ARG:HH11	1.47	0.63
5:F:656:VAL:HG13	5:F:657:ILE:HG13	1.80	0.63
8:I:778:LYS:O	8:I:778:LYS:HD3	1.98	0.63
7:K:419:LEU:HD23	7:K:419:LEU:O	1.97	0.63
8:L:703:GLN:HA	8:L:706:GLU:OE1	1.98	0.63
5:R:657:ILE:HG23	5:R:660:LEU:HB3	1.81	0.63
5:R:971:SER:HB3	7:T:392:LEU:HD21	1.80	0.63
8:U:778:LYS:O	8:U:778:LYS:HD3	1.98	0.63
6:V:389:ARG:HG2	6:V:389:ARG:HH11	1.63	0.63
1:Z:44:VAL:O	1:Z:47:ASN:CB	2.46	0.63
1:Z:196:ASN:HD21	1:Z:530:ARG:HE	1.44	0.63
1:Z:814:MET:CB	1:Z:833:ILE:HD12	2.28	0.63
5:F:1129:ASN:CG	5:F:1132:GLU:HB3	2.17	0.63
1:N:253:LEU:HD23	1:N:253:LEU:N	2.13	0.63
4:Q:1418:LEU:HG	4:Q:1421:ILE:HD12	1.81	0.63
6:V:370:ASP:HA	6:V:373:PHE:HB2	1.78	0.63
3:D:412:ILE:HG13	3:D:413:LEU:HD12	1.79	0.63
6:J:388:CYS:O	6:J:391:LEU:HB2	1.99	0.63
6:V:390:ILE:HG12	8:X:766:ILE:HD12	1.80	0.63
8:X:640:LEU:HA	8:X:643:LYS:HB3	1.81	0.63
8:X:703:GLN:HA	8:X:706:GLU:OE1	1.98	0.63
5:F:1406:TYR:HH	5:F:1452:SER:HG	1.46	0.63
3:P:850:ASN:HD22	3:P:904:LYS:HD3	1.64	0.63
4:Q:1143:GLN:HA	4:Q:1158:TYR:HA	1.81	0.63
4:Q:1309:ARG:O	4:Q:1313:ARG:CG	2.34	0.63
5:R:1314:VAL:HG11	5:R:1373:ASP:CB	2.29	0.63
5:R:1363:ILE:C	5:R:1363:ILE:HD12	2.19	0.63
5:R:1406:TYR:HH	5:R:1452:SER:HG	1.44	0.63
5:R:1543:LEU:C	5:R:1543:LEU:HD12	2.18	0.63
6:V:333:ILE:O	6:V:336:PHE:C	2.37	0.63
1:A:775:LEU:CB	1:A:832:LEU:HD12	2.28	0.62
3:D:557:THR:HG21	3:D:571:THR:HG21	1.81	0.62
4:E:421:PHE:O	4:E:425:LEU:HB2	1.99	0.62
5:F:657:ILE:HG23	5:F:660:LEU:HB3	1.80	0.62
6:J:393:ASP:N	6:J:393:ASP:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:811:LEU:CD1	2:O:867:LEU:HD21	2.29	0.62
7:W:526:VAL:O	7:W:530:ASP:N	2.23	0.62
5:F:38:ASN:HD22	5:F:41:LYS:HB2	1.63	0.62
3:P:557:THR:HG21	3:P:571:THR:HG21	1.81	0.62
7:W:321:ALA:HA	7:W:348:ILE:HG13	1.76	0.62
7:W:508:LYS:NZ	1:Z:15:SER:HG	1.96	0.62
7:W:525:GLU:OE1	7:W:525:GLU:HA	1.99	0.62
1:Z:422:ARG:HE	1:Z:424:ASN:H	1.47	0.62
2:C:811:LEU:CD1	2:C:867:LEU:HD21	2.30	0.62
5:F:1305:SER:C	5:F:1307:VAL:H	2.03	0.62
5:F:1635:ARG:O	5:F:1639:GLY:CA	2.46	0.62
6:J:333:ILE:O	6:J:336:PHE:C	2.37	0.62
8:L:640:LEU:HA	8:L:643:LYS:HB3	1.80	0.62
1:N:577:ARG:HH21	1:N:630:ARG:HE	1.46	0.62
3:P:1136:ASP:OD2	1:Z:203:ASN:C	2.36	0.62
4:Q:1319:LEU:HD21	4:Q:1398:VAL:HG22	1.79	0.62
7:W:385:GLN:HE21	7:W:385:GLN:CA	2.12	0.62
8:X:682:ASP:O	8:X:685:MET:HG2	2.00	0.62
4:E:1640:ILE:O	4:E:1644:ILE:HB	1.99	0.62
6:J:357:LEU:HB3	7:K:423:LYS:HE2	1.68	0.62
7:K:365:GLN:HB3	8:L:669:LEU:HD13	1.81	0.62
8:L:643:LYS:O	8:L:647:GLN:NE2	2.33	0.62
1:M:123:MET:O	6:V:414:SER:HB2	2.00	0.62
1:M:137:ASP:CB	4:Q:1386:LEU:HG	2.30	0.62
3:P:421:VAL:HG22	3:P:491:ARG:HB3	1.82	0.62
5:R:1399:VAL:O	5:R:1399:VAL:HG12	2.00	0.62
1:A:123:MET:O	6:J:414:SER:HB2	2.00	0.62
1:A:337:ILE:HG23	1:A:349:ALA:HB1	1.81	0.62
4:E:980:LYS:O	4:E:980:LYS:HD2	2.00	0.62
4:E:1143:GLN:HA	4:E:1158:TYR:HA	1.81	0.62
5:F:1314:VAL:HG23	5:F:1314:VAL:O	1.98	0.62
5:F:1399:VAL:O	5:F:1399:VAL:HG12	2.00	0.62
7:K:338:ALA:HA	7:K:341:LYS:HE2	1.80	0.62
3:P:929:PHE:O	3:P:932:ILE:HG22	1.99	0.62
4:Q:421:PHE:O	4:Q:425:LEU:HB2	1.99	0.62
5:R:321:GLN:HA	5:R:324:ILE:HG12	1.81	0.62
5:R:1084:LEU:HA	5:R:1156:TYR:HH	1.60	0.62
8:X:685:MET:HA	8:X:688:HIS:ND1	2.14	0.62
3:D:850:ASN:HD22	3:D:904:LYS:HD3	1.64	0.62
5:F:603:GLU:HA	5:F:606:VAL:HG12	1.82	0.62
5:F:1363:ILE:C	5:F:1363:ILE:HD12	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:400:LYS:HD2	7:K:400:LYS:C	2.19	0.62
1:N:227:GLN:NE2	1:N:606:GLU:O	2.30	0.62
6:V:301:HIS:CE1	8:X:665:TRP:HB3	2.35	0.62
1:Z:310:ASP:HA	1:Z:314:LYS:HB3	1.80	0.62
1:A:60:ASN:CB	8:L:803:ALA:O	2.47	0.62
3:D:932:ILE:HG23	3:D:933:ILE:HG13	1.82	0.62
3:D:1137:ASP:CA	1:N:205:ASN:HA	2.30	0.62
7:H:426:GLY:HA2	8:I:736:ASN:CA	2.30	0.62
7:K:527:LEU:O	7:K:531:ALA:HB2	2.00	0.62
8:L:682:ASP:O	8:L:685:MET:HG2	2.00	0.62
5:R:36:ASN:HD22	5:R:110:ARG:HH11	1.47	0.62
5:R:690:GLU:HG3	8:U:722:LEU:HG	1.82	0.62
7:T:521:THR:HA	7:T:524:ASN:HB2	1.82	0.62
7:W:456:THR:C	7:W:458:GLU:H	2.03	0.62
8:X:643:LYS:O	8:X:647:GLN:NE2	2.33	0.62
3:D:412:ILE:HB	3:D:476:VAL:HG21	1.81	0.62
3:D:929:PHE:O	3:D:932:ILE:HG22	1.99	0.62
7:H:521:THR:HA	7:H:524:ASN:HB2	1.82	0.62
1:M:56:LEU:CB	8:X:804:LEU:HD13	2.30	0.62
1:M:542:THR:HA	1:M:545:PHE:CE1	2.35	0.62
1:N:56:LEU:HD22	1:N:60:ASN:HD21	1.65	0.62
1:N:84:ASP:OD2	6:S:452:ASP:CB	2.48	0.62
5:R:195:GLN:NE2	5:R:232:TYR:O	2.33	0.62
5:R:739:ARG:NH2	5:R:813:GLU:OE2	2.33	0.62
1:A:27:GLU:HB3	6:J:467:LEU:HD22	1.79	0.62
1:A:56:LEU:CB	8:L:804:LEU:HD13	2.30	0.62
3:D:518:GLU:HA	3:D:536:ILE:HD12	1.81	0.62
5:F:690:GLU:CD	8:I:722:LEU:HD23	2.19	0.62
3:P:1019:ARG:O	1:Z:250:ASN:CB	2.34	0.62
4:Q:567:ARG:O	4:Q:571:ASN:ND2	2.33	0.62
5:R:718:SER:O	5:R:722:ARG:NH2	2.30	0.62
7:T:511:GLU:CB	8:U:800:HIS:CE1	2.82	0.62
7:W:338:ALA:HA	7:W:341:LYS:HE2	1.80	0.62
1:A:542:THR:HA	1:A:545:PHE:CE1	2.35	0.62
1:A:742:LEU:HD13	1:A:744:LEU:HD12	1.82	0.62
3:D:483:HIS:HB2	3:D:486:GLN:CG	2.28	0.62
5:F:1469:ARG:HH12	5:F:1530:GLU:HG2	1.65	0.62
8:L:685:MET:HA	8:L:688:HIS:ND1	2.14	0.62
1:N:777:ILE:HG23	1:N:777:ILE:O	2.00	0.62
3:P:147:PRO:HB2	3:P:580:VAL:HG21	1.81	0.62
4:Q:1640:ILE:O	4:Q:1644:ILE:HB	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1129:ASN:CG	5:R:1132:GLU:HB3	2.17	0.62
1:A:137:ASP:CB	4:E:1386:LEU:HG	2.30	0.61
5:F:138:GLY:H	5:F:206:ILE:HD11	1.64	0.61
6:J:293:HIS:HB3	7:K:359:ASN:HD21	1.64	0.61
6:J:301:HIS:CE1	8:L:665:TRP:HB3	2.35	0.61
7:K:295:CYS:O	7:K:299:TRP:HB2	2.00	0.61
7:K:359:ASN:O	7:K:363:GLN:HG2	2.00	0.61
1:M:814:MET:HG2	1:M:833:ILE:CD1	2.28	0.61
5:R:303:LYS:O	5:R:307:ASP:HB2	2.00	0.61
5:R:334:GLN:HE22	5:R:859:LYS:CD	2.13	0.61
6:S:431:GLN:CB	7:T:503:ASN:CB	2.78	0.61
2:C:867:LEU:HD22	2:C:888:LEU:HD21	1.82	0.61
5:F:334:GLN:CB	5:F:860:ASN:CG	2.59	0.61
6:G:455:GLU:HB3	1:Z:32:LEU:HD23	1.78	0.61
1:N:826:ARG:O	3:P:1241:GLY:CA	2.48	0.61
4:Q:673:SER:O	4:Q:677:ASN:ND2	2.33	0.61
4:Q:982:ILE:O	4:Q:982:ILE:HG22	2.00	0.61
5:R:668:ARG:HH22	5:R:719:ILE:HA	1.65	0.61
5:R:759:ASP:O	5:R:773:LYS:NZ	2.33	0.61
5:R:1653:LYS:HG2	5:R:1655:SER:H	1.66	0.61
7:T:386:LEU:O	8:U:690:GLN:NE2	2.33	0.61
1:Z:25:LEU:HD13	1:Z:25:LEU:C	2.20	0.61
5:F:1314:VAL:HG11	5:F:1373:ASP:CB	2.29	0.61
7:K:456:THR:C	7:K:458:GLU:H	2.03	0.61
4:Q:980:LYS:HD2	4:Q:980:LYS:O	2.00	0.61
5:R:1469:ARG:HH12	5:R:1530:GLU:HG2	1.65	0.61
1:A:313:LEU:HD11	1:A:339:TYR:HE2	1.64	0.61
3:D:242:MET:SD	3:D:298:TYR:HD2	2.17	0.61
6:G:431:GLN:CB	7:H:503:ASN:CB	2.78	0.61
8:L:637:LEU:HD23	8:L:640:LEU:H	1.65	0.61
1:M:814:MET:HG3	1:M:833:ILE:HD13	1.79	0.61
1:N:46:ILE:HD12	1:N:46:ILE:C	2.21	0.61
5:R:922:LEU:H	5:R:922:LEU:HD12	1.65	0.61
3:D:470:SER:HB3	3:D:475:GLU:HG2	1.82	0.61
5:F:334:GLN:HE22	5:F:859:LYS:CD	2.13	0.61
6:G:427:GLU:CB	8:I:779:THR:HG21	2.31	0.61
3:P:927:LEU:HD13	3:P:973:ARG:HH22	1.65	0.61
5:R:398:MET:O	5:R:400:THR:HG23	2.01	0.61
7:T:426:GLY:HA2	8:U:736:ASN:CA	2.30	0.61
6:V:390:ILE:HG23	6:V:394:ILE:HG22	1.83	0.61
1:Z:146:LEU:HD12	1:Z:146:LEU:C	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:357:LEU:HB3	7:K:423:LYS:HE3	0.67	0.61
2:O:867:LEU:HD22	2:O:888:LEU:HD21	1.82	0.61
3:P:412:ILE:HB	3:P:476:VAL:HG21	1.81	0.61
5:R:138:GLY:H	5:R:206:ILE:HD11	1.64	0.61
5:R:334:GLN:HG3	5:R:854:GLU:CD	2.18	0.61
5:R:1435:LYS:HE2	5:R:1484:ARG:HH21	1.65	0.61
5:R:1561:LEU:HD23	5:R:1561:LEU:O	1.99	0.61
6:V:380:TYR:CE2	8:X:751:LEU:CD2	2.68	0.61
7:W:317:ASN:HA	7:W:346:GLN:HB3	1.82	0.61
8:X:637:LEU:HD23	8:X:640:LEU:H	1.64	0.61
3:D:147:PRO:HB2	3:D:580:VAL:HG21	1.81	0.61
3:D:971:ILE:CD1	3:D:984:THR:HB	2.30	0.61
4:E:215:GLN:NE2	4:E:219:GLN:OE1	2.34	0.61
4:E:567:ARG:O	4:E:571:ASN:ND2	2.33	0.61
4:E:673:SER:O	4:E:677:ASN:ND2	2.33	0.61
4:E:679:SER:OG	4:E:680:ASP:N	2.34	0.61
5:F:1156:TYR:O	5:F:1159:GLN:N	2.33	0.61
6:G:452:ASP:CB	1:Z:84:ASP:OD2	2.48	0.61
1:M:337:ILE:HG23	1:M:349:ALA:HB1	1.81	0.61
1:N:459:LEU:O	1:N:463:GLN:HB2	2.01	0.61
3:P:237:THR:O	3:P:266:GLN:HA	2.01	0.61
3:P:713:ILE:HD12	3:P:769:ARG:HD3	1.83	0.61
4:Q:987:SER:O	4:Q:987:SER:OG	2.14	0.61
6:V:293:HIS:HB3	7:W:359:ASN:HD21	1.63	0.61
1:Z:814:MET:HA	1:Z:817:ALA:HB3	1.82	0.61
1:A:557:LEU:HG	1:A:579:LEU:HD11	1.83	0.61
4:E:982:ILE:HG22	4:E:982:ILE:O	2.01	0.61
5:F:195:GLN:NE2	5:F:232:TYR:O	2.33	0.61
5:F:1653:LYS:HG2	5:F:1655:SER:H	1.66	0.61
6:J:327:LYS:O	6:J:331:LYS:HG3	2.01	0.61
7:K:317:ASN:HA	7:K:346:GLN:HB3	1.82	0.61
1:N:814:MET:CB	1:N:833:ILE:HD12	2.28	0.61
2:O:811:LEU:HD11	2:O:867:LEU:HD21	1.83	0.61
5:R:1305:SER:C	5:R:1307:VAL:H	2.03	0.61
6:V:371:LYS:O	6:V:371:LYS:HD2	2.00	0.61
7:W:295:CYS:O	7:W:299:TRP:HB2	2.00	0.61
1:Z:459:LEU:O	1:Z:463:GLN:HB2	2.01	0.61
7:K:298:SER:CA	7:K:306:THR:HA	2.27	0.61
7:K:523:LEU:O	7:K:527:LEU:CB	2.49	0.61
1:M:742:LEU:HD13	1:M:744:LEU:HD12	1.82	0.61
1:M:772:PRO:CA	1:M:828:THR:CG2	2.72	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:814:MET:HA	1:N:817:ALA:HB3	1.82	0.61
3:P:518:GLU:HA	3:P:536:ILE:HD12	1.82	0.61
3:P:932:ILE:HG23	3:P:933:ILE:HG13	1.82	0.61
3:P:1134:SER:CB	1:Z:206:ASN:HD22	2.12	0.61
6:V:315:LEU:HD23	8:X:679:LEU:HG	1.81	0.61
5:F:690:GLU:HG3	8:I:722:LEU:HG	1.82	0.61
8:I:739:GLN:C	8:I:741:ARG:H	1.97	0.61
7:K:385:GLN:HE21	7:K:385:GLN:CA	2.12	0.61
5:R:1156:TYR:O	5:R:1159:GLN:N	2.33	0.61
6:V:433:LYS:N	7:W:499:GLY:CA	2.63	0.61
1:Z:46:ILE:HD12	1:Z:46:ILE:C	2.21	0.61
3:D:1241:GLY:CA	1:Z:826:ARG:O	2.48	0.60
6:J:325:TYR:HE2	7:K:390:HIS:CA	1.96	0.60
6:J:371:LYS:O	6:J:371:LYS:HD2	2.00	0.60
1:N:753:ALA:CB	1:N:815:ILE:O	2.29	0.60
1:Z:753:ALA:HA	1:Z:816:TYR:HA	1.71	0.60
3:D:237:THR:O	3:D:266:GLN:HA	2.01	0.60
5:F:227:ASP:CA	5:F:379:SER:CB	2.79	0.60
5:F:1118:ARG:HG2	5:F:1118:ARG:HH11	1.66	0.60
1:N:422:ARG:HE	1:N:424:ASN:H	1.47	0.60
1:N:501:MET:O	1:N:505:HIS:ND1	2.34	0.60
3:P:580:VAL:O	3:P:595:ASN:N	2.29	0.60
7:W:359:ASN:O	7:W:363:GLN:HG2	2.00	0.60
3:D:421:VAL:HG22	3:D:491:ARG:HB3	1.82	0.60
3:D:454:ARG:HB3	3:D:455:PHE:CD1	2.37	0.60
5:F:759:ASP:O	5:F:773:LYS:NZ	2.34	0.60
7:K:312:VAL:HG12	7:K:361:ARG:HH21	1.66	0.60
3:P:641:VAL:HB	3:P:648:GLU:HG2	1.83	0.60
4:Q:215:GLN:NE2	4:Q:219:GLN:OE1	2.34	0.60
5:R:1032:ILE:O	5:R:1032:ILE:HG22	2.01	0.60
5:R:1139:ILE:CG1	5:R:1291:SER:OG	2.49	0.60
6:S:292:HIS:ND1	6:V:352:VAL:CG1	2.63	0.60
7:W:298:SER:CA	7:W:306:THR:HA	2.27	0.60
7:W:308:LEU:HB3	7:W:355:PHE:CE2	2.36	0.60
7:W:312:VAL:HG12	7:W:361:ARG:HH21	1.66	0.60
1:Z:56:LEU:HD22	1:Z:60:ASN:HD21	1.65	0.60
3:D:449:ASN:HD21	3:D:461:ARG:HB2	1.65	0.60
5:F:389:LEU:C	5:F:389:LEU:HD13	2.22	0.60
5:F:668:ARG:HH22	5:F:719:ILE:HA	1.66	0.60
7:H:412:ILE:HG23	7:H:415:LEU:HD23	1.67	0.60
6:J:432:LEU:CA	8:L:782:ILE:O	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:679:SER:OG	4:Q:680:ASP:N	2.34	0.60
5:R:332:VAL:HG13	5:R:335:ASP:HA	1.84	0.60
5:R:603:GLU:HA	5:R:606:VAL:HG12	1.82	0.60
5:R:1435:LYS:NZ	5:R:1484:ARG:HH22	2.00	0.60
6:S:427:GLU:CB	8:U:779:THR:HG21	2.31	0.60
7:T:436:MET:O	7:T:440:PHE:HB3	2.02	0.60
8:X:702:ARG:O	8:X:706:GLU:OE1	2.20	0.60
3:D:927:LEU:HD13	3:D:973:ARG:HH22	1.66	0.60
3:D:1493:ASN:OD1	5:F:1471:LYS:HG2	2.02	0.60
6:J:308:ILE:HD11	7:K:369:VAL:HG13	1.83	0.60
3:P:989:GLN:HA	3:P:998:ALA:HA	1.82	0.60
1:Z:777:ILE:HG23	1:Z:777:ILE:O	2.00	0.60
1:A:57:ARG:HH11	1:A:57:ARG:CG	2.08	0.60
3:D:298:TYR:CD1	3:D:311:LYS:HE2	2.37	0.60
3:D:863:ILE:CG2	3:D:887:GLN:HA	2.32	0.60
3:D:989:GLN:HA	3:D:998:ALA:HA	1.82	0.60
5:F:398:MET:O	5:F:400:THR:HG23	2.01	0.60
5:F:922:LEU:H	5:F:922:LEU:HD12	1.66	0.60
5:F:1435:LYS:HE2	5:F:1484:ARG:HH21	1.65	0.60
7:H:386:LEU:O	8:I:690:GLN:NE2	2.33	0.60
7:H:450:PRO:O	7:H:454:GLY:N	2.35	0.60
1:N:255:GLU:O	1:N:259:ILE:HG13	2.02	0.60
1:N:287:ASP:HA	1:N:290:TYR:HB3	1.84	0.60
2:O:318:ILE:H	2:O:318:ILE:CD1	1.96	0.60
3:P:454:ARG:HB3	3:P:455:PHE:CD1	2.36	0.60
5:R:1116:VAL:HG21	5:R:1150:PHE:HZ	1.67	0.60
6:V:390:ILE:O	6:V:394:ILE:CG2	2.31	0.60
7:W:529:LYS:HD2	7:W:529:LYS:C	2.21	0.60
3:D:1467:SER:HA	1:Z:621:HIS:HE1	1.67	0.60
5:F:303:LYS:O	5:F:307:ASP:HB2	2.00	0.60
7:H:436:MET:O	7:H:440:PHE:HB3	2.02	0.60
7:K:308:LEU:HB3	7:K:355:PHE:CE2	2.37	0.60
8:L:776:PHE:HA	8:L:779:THR:CB	2.32	0.60
1:M:236:ASN:ND2	1:M:261:GLU:OE1	2.35	0.60
3:P:353:GLN:HB3	3:P:372:SER:HB2	1.84	0.60
3:P:470:SER:HB3	3:P:475:GLU:HG2	1.82	0.60
3:P:789:VAL:HG11	3:P:952:LEU:HD11	1.84	0.60
5:R:405:ARG:NH1	5:R:407:ASN:HB3	2.17	0.60
6:S:295:LYS:CB	6:V:363:LYS:NZ	2.65	0.60
1:Z:218:ILE:HD11	1:Z:241:ILE:HD12	1.84	0.60
1:Z:287:ASP:HA	1:Z:290:TYR:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:510:LEU:HD22	1:A:515:LEU:HD22	1.82	0.60
3:D:789:VAL:HG11	3:D:952:LEU:HD11	1.84	0.60
4:E:1620:THR:HB	4:E:1623:GLU:HB2	1.84	0.60
7:K:321:ALA:N	7:K:348:ILE:CD1	2.39	0.60
3:P:863:ILE:CG2	3:P:887:GLN:HA	2.32	0.60
5:R:334:GLN:HE21	5:R:859:LYS:HZ2	0.76	0.60
5:R:1349:PHE:N	5:R:1349:PHE:CD1	2.70	0.60
6:V:357:LEU:HB3	7:W:423:LYS:HE3	0.67	0.60
1:A:208:LEU:O	1:A:212:PHE:HB2	2.02	0.60
1:A:613:VAL:HG11	1:A:619:PHE:HB2	1.84	0.60
4:E:210:ASN:CA	4:E:213:PHE:CB	2.76	0.60
5:F:29:LEU:HD13	5:F:134:LEU:HG	1.84	0.60
5:F:332:VAL:HG13	5:F:335:ASP:HA	1.84	0.60
5:F:739:ARG:NH2	5:F:813:GLU:OE2	2.33	0.60
5:F:920:ILE:HB	5:F:924:ALA:C	2.21	0.60
5:F:1157:TRP:CD1	5:F:1160:TYR:HE1	2.20	0.60
7:H:361:ARG:NH2	8:I:666:ASP:OD2	2.35	0.60
8:L:702:ARG:O	8:L:706:GLU:OE1	2.20	0.60
1:N:393:GLU:HA	1:N:396:GLN:HG2	1.84	0.60
3:P:1493:ASN:OD1	5:R:1471:LYS:HG2	2.02	0.60
5:R:389:LEU:HD13	5:R:389:LEU:C	2.22	0.60
5:R:1216:PHE:CE2	5:R:1282:ALA:HB1	2.29	0.60
1:Z:751:LEU:C	1:Z:753:ALA:H	2.03	0.60
1:A:236:ASN:ND2	1:A:261:GLU:OE1	2.35	0.60
3:D:713:ILE:HD12	3:D:769:ARG:HD3	1.83	0.60
5:F:1349:PHE:N	5:F:1349:PHE:CD1	2.70	0.60
3:P:242:MET:SD	3:P:298:TYR:HD2	2.17	0.60
5:R:51:LEU:HD23	5:R:71:ILE:HG13	1.84	0.60
5:R:841:PHE:HD2	5:R:918:PHE:HE1	0.69	0.60
5:R:920:ILE:HB	5:R:924:ALA:C	2.21	0.60
5:R:1093:SER:O	5:R:1096:LEU:CB	2.50	0.60
6:V:432:LEU:CA	8:X:782:ILE:O	2.50	0.60
5:F:1561:LEU:HD22	5:R:1667:VAL:CG2	2.13	0.59
1:M:557:LEU:HG	1:M:579:LEU:HD11	1.83	0.59
1:M:589:LEU:HA	1:M:603:VAL:HG22	1.83	0.59
3:P:449:ASN:HD21	3:P:461:ARG:HB2	1.65	0.59
5:R:1014:SER:H	8:U:788:ASP:H	1.49	0.59
1:Z:227:GLN:NE2	1:Z:606:GLU:O	2.30	0.59
2:C:811:LEU:HD11	2:C:867:LEU:HD21	1.83	0.59
5:F:1032:ILE:HG22	5:F:1032:ILE:O	2.01	0.59
6:G:292:HIS:ND1	6:J:352:VAL:CG1	2.63	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:351:SER:O	6:J:355:GLN:NE2	2.35	0.59
7:K:444:LEU:HA	7:K:447:SER:CB	2.32	0.59
1:M:510:LEU:HD22	1:M:515:LEU:HD22	1.82	0.59
4:Q:1620:THR:HB	4:Q:1623:GLU:HB2	1.84	0.59
5:R:323:LEU:HD11	5:R:483:LEU:HD23	1.84	0.59
5:R:690:GLU:CD	8:U:722:LEU:HD23	2.19	0.59
5:R:1118:ARG:HG2	5:R:1118:ARG:HH11	1.66	0.59
7:T:450:PRO:O	7:T:454:GLY:N	2.35	0.59
7:W:444:LEU:HA	7:W:447:SER:CB	2.32	0.59
8:X:776:PHE:HA	8:X:779:THR:CB	2.32	0.59
1:Z:501:MET:O	1:Z:505:HIS:ND1	2.34	0.59
1:A:128:LEU:CG	4:E:1260:TYR:CE2	2.86	0.59
1:A:193:LEU:HA	1:A:539:ALA:HB1	1.84	0.59
1:A:590:LEU:HD23	1:A:604:ILE:HG21	1.84	0.59
5:F:334:GLN:NE2	5:F:859:LYS:CD	2.65	0.59
5:R:1303:LEU:HD22	5:R:1303:LEU:C	2.23	0.59
5:R:1538:LEU:HD11	5:R:1543:LEU:HD23	1.84	0.59
1:A:814:MET:CG	1:A:833:ILE:CG1	2.81	0.59
5:F:633:LYS:HZ2	5:F:635:PHE:HB2	1.66	0.59
5:F:661:VAL:O	5:F:667:SER:OG	2.21	0.59
5:F:837:TYR:CG	5:F:918:PHE:CE2	2.90	0.59
5:F:1139:ILE:CG1	5:F:1291:SER:OG	2.49	0.59
1:M:208:LEU:O	1:M:212:PHE:HB2	2.02	0.59
4:E:757:LYS:HG3	5:F:1195:PHE:HB2	1.84	0.59
4:E:793:LEU:HD11	4:E:1162:LEU:HD21	1.84	0.59
5:F:235:PRO:O	5:F:239:HIS:ND1	2.35	0.59
5:F:510:PHE:HA	5:F:513:TRP:HB3	1.85	0.59
6:G:295:LYS:CB	6:J:363:LYS:NZ	2.65	0.59
7:K:379:ILE:HG21	8:L:680:TYR:CE1	2.38	0.59
1:M:193:LEU:HA	1:M:539:ALA:HB1	1.84	0.59
3:P:507:LEU:HG	3:P:512:LYS:HB3	1.85	0.59
4:Q:1319:LEU:CD2	4:Q:1398:VAL:CG2	2.76	0.59
6:V:327:LYS:O	6:V:331:LYS:HG3	2.01	0.59
1:Z:766:ASN:O	1:Z:769:LYS:CB	2.50	0.59
1:Z:771:ILE:HB	1:Z:772:PRO:HD2	1.84	0.59
1:A:46:ILE:HA	8:L:792:GLN:N	2.16	0.59
5:F:725:ASN:ND2	5:F:789:CYS:SG	2.76	0.59
5:F:1093:SER:O	5:F:1096:LEU:CB	2.50	0.59
1:M:123:MET:CB	6:V:413:ASN:HB3	2.32	0.59
1:N:766:ASN:O	1:N:769:LYS:CB	2.50	0.59
1:N:767:ILE:O	1:N:770:ASN:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:227:ASP:CA	5:R:379:SER:CB	2.79	0.59
5:R:492:ARG:HH12	5:R:495:TYR:H	1.51	0.59
5:R:679:ILE:O	5:R:679:ILE:HG22	2.03	0.59
5:R:837:TYR:CG	5:R:918:PHE:CE2	2.90	0.59
5:R:1356:LEU:HG	5:R:1356:LEU:O	2.03	0.59
1:Z:531:ASP:OD2	1:Z:540:ASN:ND2	2.36	0.59
1:A:775:LEU:CG	1:A:832:LEU:HD11	2.33	0.59
1:A:814:MET:HG2	1:A:833:ILE:CD1	2.28	0.59
4:E:987:SER:O	4:E:987:SER:OG	2.15	0.59
5:F:405:ARG:NH1	5:F:407:ASN:HB3	2.17	0.59
5:F:1084:LEU:CA	5:F:1156:TYR:CZ	2.85	0.59
1:M:21:LYS:HE3	1:Z:27:GLU:HG2	1.85	0.59
5:R:510:PHE:HA	5:R:513:TRP:HB3	1.85	0.59
6:S:470:LEU:CB	7:T:538:LYS:HZ1	2.03	0.59
3:D:268:ILE:HG21	3:D:284:PHE:CE2	2.36	0.59
5:F:51:LEU:HD23	5:F:71:ILE:HG13	1.84	0.59
5:F:159:LYS:HZ2	5:F:363:ASP:CB	2.14	0.59
6:J:324:GLN:OE1	6:J:328:GLN:NE2	2.35	0.59
1:M:814:MET:CG	1:M:833:ILE:CG1	2.81	0.59
1:N:218:ILE:HD11	1:N:241:ILE:HD12	1.84	0.59
2:O:786:THR:CB	2:O:789:ASP:OD2	2.50	0.59
5:R:1129:ASN:OD1	5:R:1132:GLU:N	2.36	0.59
5:R:1467:ALA:HB1	5:R:1473:ASN:HB3	1.84	0.59
5:R:1468:ASN:ND2	5:R:1530:GLU:OE1	2.36	0.59
8:U:737:ASN:OD1	8:U:738:ASP:CG	2.41	0.59
3:D:641:VAL:HB	3:D:648:GLU:HG2	1.83	0.59
4:E:1031:LYS:NZ	4:E:1084:LEU:O	2.36	0.59
5:F:935:GLN:CB	5:F:998:LEU:HD23	2.33	0.59
4:Q:757:LYS:HG3	5:R:1195:PHE:HB2	1.85	0.59
5:R:1434:SER:OG	5:R:1435:LYS:N	2.36	0.59
6:S:295:LYS:HD3	6:V:363:LYS:HZ3	1.67	0.59
7:W:518:ARG:HB2	7:W:518:ARG:NH1	2.05	0.59
1:Z:393:GLU:HA	1:Z:396:GLN:HG2	1.84	0.59
2:C:121:LEU:HD23	2:C:123:TYR:CZ	2.38	0.59
2:C:786:THR:CB	2:C:789:ASP:OD2	2.50	0.59
3:D:744:SER:HA	3:D:758:ASP:CB	2.33	0.59
5:F:323:LEU:HD11	5:F:483:LEU:HD23	1.85	0.59
5:R:2:LYS:HG2	5:R:7:PRO:HG2	1.84	0.59
5:R:29:LEU:HD13	5:R:134:LEU:HG	1.84	0.59
5:R:1157:TRP:CD1	5:R:1160:TYR:HE1	2.20	0.59
5:R:1246:MET:CB	5:R:1279:CYS:CB	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1473:ASN:OD1	5:R:1476:LEU:N	2.34	0.59
1:Z:757:ALA:CB	1:Z:819:MET:C	2.39	0.59
4:E:260:ARG:NH2	4:E:761:PHE:CE1	2.68	0.58
5:F:353:PRO:HA	5:F:393:SER:HA	1.85	0.58
5:F:1246:MET:CB	5:F:1279:CYS:CB	2.81	0.58
7:K:312:VAL:CG2	7:K:352:ILE:HG13	2.33	0.58
1:M:590:LEU:HD23	1:M:604:ILE:HG21	1.84	0.58
1:N:771:ILE:HB	1:N:772:PRO:HD2	1.84	0.58
3:P:298:TYR:CD1	3:P:311:LYS:HE2	2.37	0.58
4:Q:258:ILE:O	4:Q:261:ILE:N	2.35	0.58
5:R:235:PRO:O	5:R:239:HIS:ND1	2.35	0.58
5:R:334:GLN:NE2	5:R:859:LYS:CD	2.66	0.58
5:R:661:VAL:O	5:R:667:SER:OG	2.21	0.58
5:R:883:VAL:O	8:U:761:ASN:CG	2.41	0.58
6:V:324:GLN:OE1	6:V:328:GLN:NE2	2.35	0.58
1:Z:767:ILE:O	1:Z:770:ASN:N	2.36	0.58
1:A:123:MET:CB	6:J:413:ASN:HB3	2.32	0.58
6:G:449:LEU:HA	1:Z:84:ASP:OD2	2.03	0.58
6:J:388:CYS:SG	7:K:453:LEU:O	2.61	0.58
1:M:92:THR:O	6:V:401:ILE:HD12	2.03	0.58
1:M:613:VAL:HG11	1:M:619:PHE:HB2	1.84	0.58
1:N:621:HIS:CE1	3:P:1467:SER:HA	2.38	0.58
3:P:1020:ASN:HB2	1:Z:251:ALA:CA	2.32	0.58
4:Q:793:LEU:HD11	4:Q:1162:LEU:HD21	1.84	0.58
5:R:725:ASN:ND2	5:R:789:CYS:SG	2.76	0.58
5:R:914:ASP:CB	5:R:917:PHE:HB3	2.33	0.58
5:R:1031:VAL:CB	6:S:314:TYR:HB3	2.34	0.58
1:A:589:LEU:HA	1:A:603:VAL:HG22	1.83	0.58
3:D:1140:LYS:HZ2	1:N:204:GLU:CG	2.15	0.58
5:F:492:ARG:HH12	5:F:495:TYR:H	1.51	0.58
5:F:746:LYS:HD2	5:F:898:TYR:H	1.69	0.58
6:G:401:ILE:O	6:G:405:LEU:HB2	2.03	0.58
8:I:795:LYS:HZ2	8:I:795:LYS:C	2.04	0.58
1:N:531:ASP:OD2	1:N:540:ASN:ND2	2.36	0.58
1:A:21:LYS:HD3	1:A:24:GLU:HG3	1.85	0.58
3:D:491:ARG:HG3	3:D:521:LYS:HB2	1.85	0.58
4:E:267:ILE:HA	4:E:270:ILE:HD12	1.85	0.58
5:F:679:ILE:O	5:F:679:ILE:HG22	2.03	0.58
5:F:883:VAL:O	8:I:761:ASN:CG	2.42	0.58
5:F:1492:LEU:O	5:F:1495:THR:OG1	2.22	0.58
7:K:429:LEU:HD12	7:K:429:LEU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L:793:LEU:O	8:L:796:ILE:N	2.37	0.58
1:N:810:ALA:CB	1:N:835:ILE:O	2.51	0.58
3:P:298:TYR:HE1	3:P:311:LYS:CE	2.17	0.58
4:Q:267:ILE:HA	4:Q:270:ILE:HD12	1.85	0.58
6:V:463:LYS:HE3	7:W:526:VAL:CG1	2.28	0.58
1:A:440:LEU:HA	1:A:443:ILE:HD12	1.85	0.58
3:D:507:LEU:HG	3:D:512:LYS:HB3	1.85	0.58
3:D:860:ILE:CG2	3:D:893:ILE:HG13	2.33	0.58
5:F:2:LYS:HG2	5:F:7:PRO:HG2	1.84	0.58
5:F:1031:VAL:CB	6:G:314:TYR:HB3	2.34	0.58
5:F:1303:LEU:HD22	5:F:1303:LEU:C	2.23	0.58
1:M:128:LEU:CG	4:Q:1260:TYR:CE2	2.86	0.58
1:M:391:HIS:NE2	1:M:416:GLY:O	2.33	0.58
3:P:528:PRO:HG3	3:P:624:PHE:HE2	1.67	0.58
4:Q:1022:TYR:CZ	4:Q:1026:THR:HG22	2.37	0.58
6:V:308:ILE:HD11	7:W:369:VAL:HG13	1.83	0.58
7:W:379:ILE:HG21	8:X:680:TYR:CE1	2.38	0.58
3:D:353:GLN:HB3	3:D:372:SER:HB2	1.84	0.58
3:D:1467:SER:HA	1:Z:621:HIS:CE1	2.38	0.58
5:F:914:ASP:CB	5:F:917:PHE:HB3	2.34	0.58
5:F:1110:MET:HE1	5:F:1161:LEU:HD11	1.85	0.58
5:F:1116:VAL:HG21	5:F:1150:PHE:HZ	1.67	0.58
5:F:1434:SER:OG	5:F:1435:LYS:N	2.36	0.58
1:N:84:ASP:OD2	6:S:449:LEU:HA	2.03	0.58
3:P:268:ILE:HG21	3:P:284:PHE:CE2	2.36	0.58
3:P:860:ILE:CG2	3:P:893:ILE:HG13	2.33	0.58
6:V:351:SER:O	6:V:355:GLN:NE2	2.36	0.58
7:W:312:VAL:CG2	7:W:352:ILE:HG13	2.33	0.58
1:Z:421:SER:O	1:Z:423:LYS:NZ	2.37	0.58
1:Z:531:ASP:OD1	1:Z:531:ASP:N	2.36	0.58
1:Z:751:LEU:C	1:Z:753:ALA:N	2.57	0.58
5:F:199:GLY:O	5:F:203:LYS:NZ	2.37	0.58
5:F:334:GLN:CG	5:F:854:GLU:CD	2.72	0.58
5:F:1473:ASN:HB2	5:F:1475:ILE:H	1.69	0.58
6:G:295:LYS:HB3	6:J:363:LYS:HZ2	1.68	0.58
8:L:774:ASN:HD22	8:L:777:ASN:HD22	1.51	0.58
1:M:440:LEU:HA	1:M:443:ILE:HD12	1.85	0.58
5:R:334:GLN:CG	5:R:854:GLU:CD	2.72	0.58
7:W:297:GLU:HB3	7:W:304:THR:OG1	2.04	0.58
7:W:313:TYR:HD1	7:W:349:PRO:HB3	1.68	0.58
7:W:404:ARG:O	7:W:407:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:16:LYS:HD2	6:V:468:ALA:HB1	1.86	0.58
1:M:133:THR:O	1:M:135:ASP:N	2.37	0.58
1:M:559:LEU:HA	1:M:562:LEU:HD13	1.86	0.58
1:M:775:LEU:CG	1:M:832:LEU:HD11	2.33	0.58
2:O:121:LEU:HD23	2:O:123:TYR:CZ	2.38	0.58
4:Q:1031:LYS:NZ	4:Q:1084:LEU:O	2.36	0.58
7:T:361:ARG:NH2	8:U:666:ASP:OD2	2.35	0.58
6:V:308:ILE:HB	6:V:309:PRO:HD3	1.86	0.58
7:W:446:ARG:HH22	7:W:455:LYS:HZ3	1.47	0.58
3:D:119:PRO:HB3	3:D:739:THR:HG22	1.85	0.58
3:D:853:PHE:CE2	3:D:900:VAL:HG21	2.39	0.58
5:F:1005:PHE:O	5:F:1009:ASN:HB2	2.03	0.58
5:F:1508:ILE:HA	5:F:1511:LEU:HB3	1.85	0.58
5:F:1538:LEU:HD11	5:F:1543:LEU:HD23	1.85	0.58
1:N:127:GLN:HA	1:N:127:GLN:NE2	2.16	0.58
1:N:133:THR:O	1:N:135:ASP:N	2.37	0.58
3:P:1136:ASP:HB3	1:Z:203:ASN:C	2.19	0.58
4:Q:986:SER:O	4:Q:986:SER:OG	2.22	0.58
5:R:935:GLN:CB	5:R:998:LEU:HD23	2.33	0.58
5:R:1650:GLU:OE1	5:R:1659:ASN:ND2	2.37	0.58
7:W:510:VAL:O	7:W:514:THR:OG1	2.21	0.58
1:Z:133:THR:O	1:Z:135:ASP:N	2.37	0.58
3:D:298:TYR:HE1	3:D:311:LYS:CE	2.17	0.58
3:D:753:PRO:HG2	3:D:756:LYS:HE3	1.86	0.58
5:F:28:VAL:O	5:F:32:LEU:N	2.30	0.58
5:F:1356:LEU:HG	5:F:1356:LEU:O	2.03	0.58
8:I:737:ASN:OD1	8:I:738:ASP:CG	2.41	0.58
8:I:823:LYS:HD2	8:I:823:LYS:O	2.04	0.58
6:J:332:LYS:HE3	7:K:402:GLN:HG3	1.86	0.58
7:K:313:TYR:HD1	7:K:349:PRO:HB3	1.68	0.58
1:N:252:GLN:HG2	1:N:253:LEU:HD23	1.84	0.58
3:P:328:LEU:HD11	3:P:334:VAL:HG22	1.86	0.58
5:R:552:SER:O	5:R:557:ASN:ND2	2.37	0.58
5:R:746:LYS:HD2	5:R:898:TYR:H	1.69	0.58
6:S:401:ILE:O	6:S:405:LEU:HB2	2.03	0.58
7:W:509:ILE:CG2	1:Z:12:SER:HB3	2.33	0.58
4:E:837:ASP:HB3	4:E:839:ILE:H	1.69	0.57
4:E:1022:TYR:CZ	4:E:1026:THR:HG22	2.37	0.57
5:F:1129:ASN:OD1	5:F:1132:GLU:N	2.36	0.57
5:F:1435:LYS:NZ	5:F:1484:ARG:HH22	2.00	0.57
5:F:1435:LYS:O	5:F:1439:GLU:N	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:785:ASN:CB	1:Z:112:TYR:HA	2.34	0.57
1:M:46:ILE:HA	8:X:792:GLN:N	2.16	0.57
1:N:421:SER:O	1:N:423:LYS:NZ	2.37	0.57
1:N:621:HIS:HE1	3:P:1467:SER:HA	1.67	0.57
3:P:119:PRO:HB3	3:P:739:THR:HG22	1.85	0.57
3:P:298:TYR:CE1	3:P:311:LYS:CE	2.87	0.57
3:P:799:THR:HA	3:P:803:PHE:HB2	1.85	0.57
5:R:633:LYS:HZ2	5:R:635:PHE:HB2	1.69	0.57
7:W:429:LEU:HD12	7:W:429:LEU:O	2.03	0.57
3:D:799:THR:HA	3:D:803:PHE:HB2	1.85	0.57
5:F:397:MET:N	5:F:397:MET:SD	2.77	0.57
5:F:1468:ASN:ND2	5:F:1530:GLU:OE1	2.36	0.57
7:H:397:ARG:NH2	8:I:698:GLN:OE1	2.37	0.57
1:M:417:ARG:NH2	1:M:442:LEU:O	2.38	0.57
1:N:751:LEU:C	1:N:753:ALA:N	2.57	0.57
3:P:744:SER:HA	3:P:758:ASP:CB	2.33	0.57
3:P:773:ILE:O	3:P:777:ILE:HG12	2.04	0.57
5:R:397:MET:N	5:R:397:MET:SD	2.77	0.57
6:V:402:ASP:C	6:V:404:ASP:H	2.08	0.57
1:A:706:ILE:HB	1:A:711:LYS:HE2	1.86	0.57
7:H:418:GLN:HE22	8:I:718:THR:CG2	2.03	0.57
7:K:444:LEU:O	7:K:447:SER:N	2.38	0.57
7:K:513:LEU:HD11	8:L:800:HIS:ND1	2.20	0.57
5:R:590:ILE:HG13	5:R:591:ASP:H	1.70	0.57
5:R:909:LEU:O	7:T:403:SER:HB2	2.05	0.57
5:R:1084:LEU:CA	5:R:1156:TYR:CZ	2.85	0.57
5:R:1118:ARG:HG2	5:R:1118:ARG:NH1	2.19	0.57
7:W:321:ALA:C	7:W:348:ILE:CD1	2.69	0.57
7:W:400:LYS:HD2	7:W:400:LYS:C	2.20	0.57
1:Z:44:VAL:O	1:Z:47:ASN:N	2.37	0.57
1:A:133:THR:O	1:A:135:ASP:N	2.37	0.57
3:D:328:LEU:HD11	3:D:334:VAL:HG22	1.87	0.57
5:F:1063:ILE:HG22	5:F:1063:ILE:O	2.05	0.57
5:F:1467:ALA:HB1	5:F:1473:ASN:HB3	1.84	0.57
8:L:765:LEU:O	8:L:769:ILE:HB	2.03	0.57
3:P:449:ASN:HB3	3:P:463:GLU:HG2	1.86	0.57
3:P:515:VAL:HB	3:P:604:PRO:CG	2.35	0.57
5:R:353:PRO:O	5:R:356:ILE:CG2	2.53	0.57
5:R:579:ARG:HH11	5:R:698:ASN:HB3	1.70	0.57
5:R:1063:ILE:O	5:R:1063:ILE:HG22	2.05	0.57
5:R:1110:MET:HE1	5:R:1161:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:25:LEU:O	1:Z:25:LEU:HD22	2.05	0.57
1:A:559:LEU:HA	1:A:562:LEU:HD13	1.86	0.57
3:D:832:VAL:H	3:D:929:PHE:HE2	1.52	0.57
4:E:262:SER:O	4:E:265:PHE:HB2	2.03	0.57
4:E:888:TYR:O	4:E:897:LYS:NZ	2.37	0.57
5:F:579:ARG:HH11	5:F:698:ASN:HB3	1.69	0.57
5:F:1606:GLN:HB3	1:Z:141:ASN:ND2	2.19	0.57
1:M:706:ILE:HB	1:M:711:LYS:HE2	1.86	0.57
1:N:23:ASN:C	1:N:25:LEU:H	2.08	0.57
3:P:242:MET:O	3:P:259:THR:OG1	2.21	0.57
3:P:491:ARG:HG3	3:P:521:LYS:HB2	1.86	0.57
5:R:750:TRP:NE1	5:R:754:ASP:HB2	2.20	0.57
5:R:1005:PHE:O	5:R:1009:ASN:HB2	2.03	0.57
5:R:1559:LEU:HD12	5:R:1559:LEU:O	2.04	0.57
7:T:397:ARG:NH2	8:U:698:GLN:OE1	2.38	0.57
8:U:823:LYS:O	8:U:823:LYS:HD2	2.04	0.57
6:V:332:LYS:HE3	7:W:402:GLN:HG3	1.86	0.57
1:Z:824:MET:HB2	1:Z:825:PRO:CD	2.30	0.57
3:D:515:VAL:HB	3:D:604:PRO:CG	2.35	0.57
5:F:552:SER:O	5:F:557:ASN:ND2	2.37	0.57
5:F:1558:ASP:CB	5:R:1680:GLN:NE2	2.67	0.57
1:M:435:TRP:HA	1:M:438:MET:SD	2.44	0.57
4:Q:1611:TYR:O	4:Q:1615:ARG:HB2	2.04	0.57
5:R:712:LEU:HG	5:R:716:LEU:CD2	2.35	0.57
5:R:1431:ARG:HD2	5:R:1474:PHE:H	1.70	0.57
5:R:1508:ILE:HA	5:R:1511:LEU:HB3	1.85	0.57
6:V:389:ARG:NH2	6:V:393:ASP:OD2	2.37	0.57
1:Z:810:ALA:CB	1:Z:835:ILE:O	2.51	0.57
5:F:712:LEU:HG	5:F:716:LEU:CD2	2.35	0.57
5:F:712:LEU:HG	5:F:716:LEU:HD23	1.86	0.57
5:F:841:PHE:CD2	5:F:918:PHE:CD1	2.89	0.57
7:H:397:ARG:HB2	8:I:697:LEU:HD21	1.86	0.57
7:H:426:GLY:HA3	8:I:736:ASN:N	2.18	0.57
1:N:46:ILE:CB	6:S:327:LYS:HZ3	1.89	0.57
1:N:80:PHE:N	1:N:80:PHE:CD1	2.73	0.57
5:R:389:LEU:H	5:R:389:LEU:CD1	2.16	0.57
8:U:822:LYS:HZ1	8:U:822:LYS:CA	2.13	0.57
1:A:417:ARG:NH2	1:A:442:LEU:O	2.38	0.57
3:D:298:TYR:CE1	3:D:311:LYS:CE	2.87	0.57
4:E:216:TYR:HD1	4:E:220:PHE:HB2	1.70	0.57
1:N:334:TRP:HA	1:N:337:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:531:ASP:N	1:N:531:ASP:OD1	2.36	0.57
4:Q:837:ASP:HB3	4:Q:839:ILE:H	1.69	0.57
5:R:702:LYS:HA	5:R:767:ILE:HD11	1.86	0.57
5:R:1403:SER:OG	5:R:1451:THR:O	2.22	0.57
5:R:1492:LEU:O	5:R:1495:THR:OG1	2.22	0.57
7:T:397:ARG:HB2	8:U:697:LEU:HD21	1.86	0.57
3:D:611:LEU:CD1	3:D:640:ALA:HB2	2.34	0.57
3:D:853:PHE:HE2	3:D:900:VAL:HG21	1.70	0.57
5:F:1118:ARG:HH11	5:F:1118:ARG:CG	2.18	0.57
5:F:1650:GLU:OE1	5:F:1659:ASN:ND2	2.37	0.57
6:G:402:ASP:OD2	7:H:462:ARG:NH1	2.38	0.57
7:K:404:ARG:O	7:K:407:GLU:N	2.37	0.57
8:L:799:SER:O	8:L:803:ALA:HB3	2.05	0.57
3:P:403:GLY:O	3:P:408:ARG:NE	2.37	0.57
3:P:971:ILE:CD1	3:P:984:THR:HB	2.29	0.57
4:Q:888:TYR:O	4:Q:897:LYS:NZ	2.37	0.57
5:R:1123:ASN:HB3	5:R:1143:SER:OG	2.05	0.57
5:R:1550:LEU:HD21	5:R:1552:PHE:HZ	1.66	0.57
5:R:1598:PHE:HA	5:R:1601:ILE:HB	1.86	0.57
3:D:485:GLN:HA	3:D:577:PHE:CZ	2.40	0.57
4:E:358:VAL:HG13	4:E:359:LEU:HG	1.87	0.57
5:F:702:LYS:HA	5:F:767:ILE:HD11	1.87	0.57
8:I:822:LYS:HZ2	8:I:822:LYS:CA	2.17	0.57
6:J:308:ILE:HB	6:J:309:PRO:HD3	1.86	0.57
7:K:427:LEU:N	7:K:428:PRO:HD3	2.20	0.57
1:N:112:TYR:HA	8:U:785:ASN:CB	2.35	0.57
3:P:853:PHE:CE2	3:P:900:VAL:HG21	2.39	0.57
4:Q:812:SER:O	4:Q:872:ASN:ND2	2.38	0.57
5:R:353:PRO:HA	5:R:393:SER:HA	1.85	0.57
7:T:358:LEU:O	7:T:362:ASN:ND2	2.38	0.57
7:W:509:ILE:HG21	1:Z:12:SER:CB	2.34	0.57
3:D:535:VAL:HB	3:D:575:LYS:HB2	1.87	0.56
3:D:970:ILE:HG23	3:D:975:ILE:HD12	1.87	0.56
4:E:972:LEU:HD23	4:E:995:LEU:HD11	1.86	0.56
4:E:1611:TYR:O	4:E:1615:ARG:HB2	2.04	0.56
5:F:353:PRO:O	5:F:356:ILE:CG2	2.53	0.56
5:F:750:TRP:NE1	5:F:754:ASP:HB2	2.20	0.56
5:F:1014:SER:H	8:I:788:ASP:H	1.49	0.56
5:F:1118:ARG:HG2	5:F:1118:ARG:NH1	2.19	0.56
5:F:1666:MET:O	5:F:1670:ILE:HB	2.05	0.56
8:I:818:ILE:HD13	8:I:818:ILE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:607:ARG:HD2	1:M:610:LEU:HD12	1.87	0.56
1:N:751:LEU:C	1:N:753:ALA:H	2.03	0.56
3:P:832:VAL:H	3:P:929:PHE:HE2	1.52	0.56
5:R:199:GLY:O	5:R:203:LYS:NZ	2.37	0.56
5:R:1251:ARG:NH2	5:R:1276:ASP:CB	2.66	0.56
5:R:1473:ASN:HB2	5:R:1475:ILE:H	1.69	0.56
6:V:391:LEU:HD13	7:W:455:LYS:HA	1.86	0.56
8:X:765:LEU:O	8:X:769:ILE:HB	2.03	0.56
3:D:186:ILE:HG22	3:D:189:LYS:HB2	1.87	0.56
3:D:527:SER:HB3	3:D:528:PRO:HD2	1.87	0.56
3:D:773:ILE:O	3:D:777:ILE:HG12	2.04	0.56
4:E:812:SER:O	4:E:872:ASN:ND2	2.38	0.56
1:N:766:ASN:C	1:N:770:ASN:HD22	2.09	0.56
3:P:481:LEU:HD23	3:P:488:GLN:HB3	1.86	0.56
4:Q:134:ARG:NH2	4:Q:198:MET:O	2.39	0.56
4:Q:997:VAL:O	4:Q:1001:ASN:ND2	2.38	0.56
5:R:354:ARG:HB3	5:R:354:ARG:NH1	2.20	0.56
6:S:357:LEU:O	8:U:732:ALA:C	2.44	0.56
7:T:426:GLY:HA3	8:U:736:ASN:N	2.18	0.56
6:V:309:PRO:HA	6:V:312:VAL:CG2	2.35	0.56
1:Z:12:SER:OG	1:Z:12:SER:O	2.21	0.56
1:A:751:LEU:HD22	2:C:1313:LEU:HD23	1.86	0.56
1:A:775:LEU:HB3	1:A:832:LEU:CG	2.34	0.56
3:D:242:MET:CE	3:D:298:TYR:CD2	2.88	0.56
4:E:1443:THR:O	4:E:1446:PHE:HB2	2.06	0.56
5:F:590:ILE:HG13	5:F:591:ASP:H	1.70	0.56
5:F:1038:LEU:C	5:F:1040:THR:N	2.45	0.56
5:F:1403:SER:OG	5:F:1451:THR:O	2.22	0.56
7:H:358:LEU:O	7:H:362:ASN:ND2	2.38	0.56
6:J:309:PRO:HA	6:J:312:VAL:CG2	2.35	0.56
1:N:22:LEU:O	1:N:25:LEU:HB3	2.04	0.56
3:P:186:ILE:HG22	3:P:189:LYS:HB2	1.87	0.56
3:P:242:MET:CE	3:P:298:TYR:CD2	2.88	0.56
3:P:985:ALA:O	3:P:988:LEU:CB	2.54	0.56
4:Q:210:ASN:CA	4:Q:213:PHE:CB	2.76	0.56
5:R:537:PRO:HA	5:R:622:GLN:HB3	1.86	0.56
5:R:1118:ARG:HH11	5:R:1118:ARG:CG	2.18	0.56
8:U:778:LYS:HD3	8:U:778:LYS:C	2.26	0.56
8:U:818:ILE:HD13	8:U:818:ILE:N	2.20	0.56
6:V:325:TYR:HE2	7:W:390:HIS:CA	1.97	0.56
7:W:311:PHE:CD2	7:W:341:LYS:NZ	2.58	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:X:774:ASN:HD22	8:X:777:ASN:HD22	1.51	0.56
8:X:799:SER:O	8:X:803:ALA:HB3	2.05	0.56
1:Z:80:PHE:CD1	1:Z:80:PHE:N	2.73	0.56
1:Z:253:LEU:HD23	1:Z:253:LEU:N	2.20	0.56
1:Z:277:TYR:O	1:Z:280:GLN:NE2	2.37	0.56
3:D:449:ASN:HB3	3:D:463:GLU:HG2	1.86	0.56
3:D:481:LEU:HD23	3:D:488:GLN:HB3	1.87	0.56
3:D:606:GLN:N	3:D:642:LEU:O	2.36	0.56
4:E:989:ASP:O	4:E:992:SER:N	2.35	0.56
4:E:1398:VAL:O	4:E:1398:VAL:CG1	2.42	0.56
5:F:1270:GLN:O	5:F:1274:ASP:HB2	2.06	0.56
7:K:297:GLU:HB3	7:K:304:THR:OG1	2.04	0.56
1:N:409:LEU:O	1:N:413:LYS:HB2	2.05	0.56
1:N:453:VAL:HG21	4:Q:1356:LEU:HB2	1.88	0.56
2:O:1258:GLN:CG	2:O:1299:LYS:HE3	2.36	0.56
3:P:535:VAL:HB	3:P:575:LYS:HB2	1.87	0.56
5:R:661:VAL:HG11	5:R:712:LEU:HD12	1.87	0.56
6:S:402:ASP:OD2	7:T:462:ARG:NH1	2.38	0.56
6:V:433:LYS:CB	7:W:499:GLY:CA	2.81	0.56
8:X:793:LEU:O	8:X:796:ILE:N	2.37	0.56
1:Z:692:MET:O	1:Z:696:TYR:HB2	2.06	0.56
1:A:435:TRP:HA	1:A:438:MET:SD	2.44	0.56
3:D:441:VAL:HA	3:D:490:LYS:HB2	1.87	0.56
4:E:997:VAL:O	4:E:1001:ASN:ND2	2.38	0.56
5:F:620:THR:HG23	5:F:627:VAL:HG21	1.87	0.56
5:F:1123:ASN:HB3	5:F:1143:SER:OG	2.05	0.56
5:F:1431:ARG:HD2	5:F:1474:PHE:H	1.70	0.56
1:M:779:LEU:C	1:M:835:ILE:CB	2.74	0.56
3:P:508:LYS:HB3	3:P:516:LEU:HA	1.87	0.56
3:P:611:LEU:CD1	3:P:640:ALA:HB2	2.35	0.56
4:Q:928:SER:HA	4:Q:931:PHE:HB2	1.88	0.56
5:R:869:VAL:HA	5:R:872:ILE:HD12	1.87	0.56
5:R:1092:THR:O	5:R:1092:THR:OG1	2.23	0.56
8:X:640:LEU:HD13	8:X:643:LYS:HG2	1.88	0.56
1:Z:409:LEU:O	1:Z:413:LYS:HB2	2.04	0.56
1:Z:638:TYR:HA	1:Z:641:ILE:HG22	1.88	0.56
3:D:398:ILE:O	3:D:402:ILE:HG12	2.06	0.56
3:D:654:THR:HB	3:D:655:PRO:HD2	1.87	0.56
4:E:765:PHE:HB3	4:E:843:LEU:HD22	1.88	0.56
4:E:986:SER:OG	4:E:986:SER:O	2.22	0.56
6:G:295:LYS:CB	6:J:363:LYS:HZ2	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:84:ASP:CG	6:S:449:LEU:HA	2.26	0.56
1:N:289:LEU:HD21	1:N:312:LYS:HG2	1.88	0.56
1:N:692:MET:O	1:N:696:TYR:HB2	2.06	0.56
3:P:402:ILE:HG13	3:P:406:THR:HB	1.88	0.56
3:P:654:THR:HB	3:P:655:PRO:HD2	1.87	0.56
3:P:753:PRO:HG2	3:P:756:LYS:HE3	1.87	0.56
5:R:657:ILE:HG12	5:R:660:LEU:HD13	1.87	0.56
5:R:1068:ILE:O	5:R:1068:ILE:HG22	2.05	0.56
5:R:1501:SER:OG	5:R:1502:THR:N	2.38	0.56
6:V:305:ILE:HD11	8:X:668:VAL:CG1	2.35	0.56
1:A:27:GLU:CG	6:J:467:LEU:HD21	2.35	0.56
5:F:333:GLU:HA	5:F:420:THR:CB	2.36	0.56
5:F:537:PRO:HA	5:F:622:GLN:HB3	1.86	0.56
5:F:661:VAL:HG11	5:F:712:LEU:HD12	1.87	0.56
5:F:668:ARG:HD2	5:F:716:LEU:HD13	1.88	0.56
6:J:296:ALA:O	6:J:299:ILE:HG12	2.06	0.56
6:J:319:GLU:HA	6:J:322:THR:CG2	2.36	0.56
3:P:853:PHE:HE2	3:P:900:VAL:HG21	1.70	0.56
3:P:915:GLU:OE2	3:P:980:SER:OG	2.23	0.56
5:R:28:VAL:O	5:R:32:LEU:N	2.30	0.56
5:R:159:LYS:CE	5:R:363:ASP:HA	2.26	0.56
5:R:1595:VAL:O	5:R:1599:GLU:HB2	2.06	0.56
1:Z:334:TRP:HA	1:Z:337:ILE:HD12	1.87	0.56
1:A:643:LEU:O	1:A:647:ALA:N	2.38	0.56
5:F:909:LEU:O	7:H:403:SER:HB2	2.05	0.56
5:F:1063:ILE:HB	5:F:1066:ASP:HB3	1.87	0.56
8:I:778:LYS:HD3	8:I:778:LYS:C	2.26	0.56
8:L:658:TYR:O	8:L:662:ILE:HG22	2.06	0.56
1:M:16:LYS:CG	6:V:468:ALA:HB1	2.35	0.56
1:M:46:ILE:HA	8:X:792:GLN:CB	2.36	0.56
1:M:814:MET:CG	1:M:833:ILE:HG12	2.35	0.56
3:P:164:PHE:HA	3:P:186:ILE:HD12	1.88	0.56
3:P:1137:ASP:CA	1:Z:205:ASN:HA	2.36	0.56
4:Q:358:VAL:HG13	4:Q:359:LEU:HG	1.87	0.56
5:R:1067:ASN:HD22	5:R:1069:ASP:HB2	1.71	0.56
5:R:1286:PHE:O	5:R:1286:PHE:HD1	1.89	0.56
5:R:1498:LEU:HG	5:R:1514:GLU:HB3	1.88	0.56
5:R:1550:LEU:HD13	5:R:1552:PHE:CE1	2.40	0.56
5:R:1666:MET:O	5:R:1670:ILE:HB	2.05	0.56
7:T:309:ARG:NE	7:T:353:TYR:OH	2.38	0.56
6:V:403:THR:HG23	6:V:403:THR:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1388:HIS:C	4:E:1331:LEU:HD11	2.26	0.56
4:E:277:THR:HG22	4:E:381:VAL:HG21	1.88	0.56
4:E:1644:ILE:HD13	4:E:1647:LEU:HD21	1.86	0.56
5:F:657:ILE:HG12	5:F:660:LEU:HD13	1.87	0.56
5:F:869:VAL:HA	5:F:872:ILE:HD12	1.87	0.56
5:F:885:GLU:HG3	5:F:885:GLU:O	2.06	0.56
5:F:1501:SER:OG	5:F:1502:THR:N	2.39	0.56
5:F:1550:LEU:HD13	5:F:1552:PHE:CE1	2.40	0.56
7:K:311:PHE:CD2	7:K:341:LYS:NZ	2.58	0.56
7:K:538:LYS:O	8:L:822:LYS:CB	2.54	0.56
1:N:254:LEU:HG	1:N:258:LYS:HZ1	1.69	0.56
3:P:527:SER:HB3	3:P:528:PRO:HD2	1.87	0.56
4:Q:723:LEU:HD23	4:Q:794:ILE:HD12	1.88	0.56
5:R:355:LEU:CD1	5:R:355:LEU:H	2.19	0.56
5:R:712:LEU:HG	5:R:716:LEU:HD23	1.86	0.56
6:S:351:SER:O	6:S:355:GLN:NE2	2.39	0.56
1:Z:289:LEU:HD21	1:Z:312:LYS:HG2	1.88	0.56
1:A:27:GLU:HG2	6:J:467:LEU:HD21	1.88	0.56
3:D:985:ALA:O	3:D:988:LEU:CB	2.54	0.56
4:E:928:SER:HA	4:E:931:PHE:HB2	1.88	0.56
5:F:354:ARG:HB3	5:F:354:ARG:NH1	2.20	0.56
5:F:825:ILE:HG22	5:F:890:VAL:HG13	1.87	0.56
5:F:1176:GLU:OE1	5:F:1176:GLU:N	2.39	0.56
5:F:1598:PHE:HA	5:F:1601:ILE:HB	1.86	0.56
6:G:351:SER:O	6:G:355:GLN:NE2	2.39	0.56
6:G:391:LEU:O	6:G:395:GLU:HB2	2.06	0.56
7:H:533:ILE:HA	7:H:536:LYS:HB2	1.87	0.56
8:L:672:GLY:HA2	8:L:675:GLN:HG2	1.87	0.56
1:N:829:TYR:CB	3:P:1237:SER:CB	2.84	0.56
3:P:605:VAL:HG13	3:P:641:VAL:HG13	1.88	0.56
4:Q:216:TYR:HD1	4:Q:220:PHE:HB2	1.70	0.56
5:R:885:GLU:HG3	5:R:885:GLU:O	2.06	0.56
5:R:1063:ILE:HB	5:R:1066:ASP:HB3	1.87	0.56
8:X:658:TYR:O	8:X:662:ILE:HG22	2.06	0.56
1:A:776:ILE:HD11	1:A:828:THR:HA	1.88	0.55
4:E:264:LEU:O	4:E:268:THR:OG1	2.23	0.55
5:F:1068:ILE:HG22	5:F:1068:ILE:O	2.05	0.55
6:G:449:LEU:HA	1:Z:84:ASP:CG	2.26	0.55
6:J:309:PRO:HA	6:J:312:VAL:HB	1.88	0.55
1:M:776:ILE:HD11	1:M:828:THR:HA	1.88	0.55
1:N:589:LEU:HA	1:N:603:VAL:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:155:ASN:HA	3:P:646:SER:CB	2.36	0.55
3:P:485:GLN:HA	3:P:577:PHE:CZ	2.40	0.55
3:P:911:ASN:HA	3:P:914:TYR:CD2	2.42	0.55
4:Q:312:ASN:ND2	4:Q:314:ASP:O	2.39	0.55
5:R:333:GLU:HA	5:R:420:THR:CB	2.35	0.55
5:R:668:ARG:HD2	5:R:716:LEU:HD13	1.88	0.55
5:R:1176:GLU:N	5:R:1176:GLU:OE1	2.39	0.55
6:S:295:LYS:CB	6:V:363:LYS:HZ2	2.19	0.55
6:V:324:GLN:OE1	6:V:327:LYS:HE3	2.06	0.55
1:Z:288:ASN:O	1:Z:292:LYS:HB2	2.06	0.55
1:A:46:ILE:HA	8:L:792:GLN:CB	2.36	0.55
3:D:710:VAL:HG22	3:D:711:VAL:H	1.71	0.55
3:D:911:ASN:HA	3:D:914:TYR:CD2	2.41	0.55
4:E:134:ARG:NH2	4:E:198:MET:O	2.39	0.55
4:E:312:ASN:ND2	4:E:314:ASP:O	2.39	0.55
5:F:554:SER:OG	5:F:555:TRP:N	2.39	0.55
5:F:902:LYS:HD3	5:F:903:ASN:H	1.71	0.55
6:J:433:LYS:N	7:K:499:GLY:CA	2.63	0.55
7:K:321:ALA:HA	7:K:348:ILE:HG13	1.76	0.55
1:M:492:ILE:HD11	1:M:510:LEU:HD12	1.89	0.55
1:M:643:LEU:O	1:M:647:ALA:N	2.38	0.55
4:Q:463:PHE:O	4:Q:554:ILE:HA	2.07	0.55
5:R:1040:THR:O	5:R:1042:ILE:N	2.40	0.55
6:S:391:LEU:O	6:S:395:GLU:HB2	2.06	0.55
7:W:427:LEU:N	7:W:428:PRO:HD3	2.20	0.55
3:D:1237:SER:CB	1:Z:829:TYR:CB	2.84	0.55
4:E:331:TYR:OH	4:E:388:ASN:ND2	2.40	0.55
4:E:1450:LEU:HD22	4:E:1456:ILE:HG21	1.88	0.55
5:F:679:ILE:O	5:F:745:ARG:NH1	2.39	0.55
5:F:928:LEU:HD12	5:F:928:LEU:N	2.01	0.55
5:F:1595:VAL:O	5:F:1599:GLU:HB2	2.06	0.55
1:M:140:ILE:CG2	4:Q:1393:LYS:NZ	2.61	0.55
3:P:139:LYS:HE3	3:P:600:GLU:HB2	1.88	0.55
3:P:284:PHE:CE1	3:P:296:LEU:HG	2.42	0.55
3:P:515:VAL:CG1	3:P:644:SER:HB3	2.32	0.55
3:P:970:ILE:HG23	3:P:975:ILE:HD12	1.87	0.55
4:Q:333:ARG:NH1	4:Q:341:PHE:O	2.40	0.55
4:Q:972:LEU:HD23	4:Q:995:LEU:HD11	1.86	0.55
4:Q:1309:ARG:HH21	4:Q:1313:ARG:HH12	1.55	0.55
8:X:682:ASP:HA	8:X:685:MET:CE	2.37	0.55
1:A:140:ILE:CG2	4:E:1393:LYS:NZ	2.61	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:ILE:HD11	1:A:510:LEU:HD12	1.89	0.55
1:A:814:MET:CG	1:A:833:ILE:HG12	2.35	0.55
3:D:545:GLN:HG3	3:D:572:LEU:CD1	2.36	0.55
3:D:903:ILE:HG23	3:D:953:PHE:CE1	2.42	0.55
5:F:334:GLN:HG3	5:F:854:GLU:CD	2.18	0.55
6:G:357:LEU:O	8:I:732:ALA:C	2.44	0.55
8:L:792:GLN:HA	8:L:796:ILE:HB	1.88	0.55
1:M:642:LEU:HA	1:M:645:GLN:NE2	2.22	0.55
1:M:775:LEU:CD1	1:M:832:LEU:HD11	2.37	0.55
5:R:10:THR:O	5:R:14:SER:HB3	2.06	0.55
5:R:554:SER:OG	5:R:555:TRP:N	2.40	0.55
6:V:390:ILE:CG2	6:V:394:ILE:HG21	2.33	0.55
1:Z:589:LEU:HA	1:Z:603:VAL:HG22	1.88	0.55
1:A:779:LEU:C	1:A:835:ILE:CB	2.74	0.55
3:D:175:ILE:HG12	3:D:182:CYS:SG	2.47	0.55
5:F:1040:THR:O	5:F:1042:ILE:N	2.40	0.55
5:F:1674:CYS:HA	5:F:1677:THR:OG1	2.07	0.55
6:G:411:ASN:OD1	6:G:411:ASN:N	2.37	0.55
6:J:384:LEU:HD23	6:J:384:LEU:C	2.26	0.55
7:K:389:LYS:CB	7:K:393:ASP:HB3	2.32	0.55
1:N:125:ILE:HG21	5:R:1362:ASP:CB	2.37	0.55
3:P:103:LEU:HG	3:P:107:TYR:CE2	2.41	0.55
3:P:441:VAL:HA	3:P:490:LYS:HB2	1.87	0.55
4:Q:318:HIS:H	4:Q:321:ILE:HD11	1.71	0.55
4:Q:765:PHE:HB3	4:Q:843:LEU:HD22	1.88	0.55
5:R:620:THR:HG23	5:R:627:VAL:HG21	1.87	0.55
5:R:1309:LEU:HD22	5:R:1309:LEU:C	2.27	0.55
7:W:389:LYS:CB	7:W:393:ASP:HB3	2.32	0.55
7:W:444:LEU:O	7:W:447:SER:N	2.38	0.55
1:Z:652:ILE:HA	1:Z:655:THR:HG22	1.87	0.55
1:Z:766:ASN:C	1:Z:770:ASN:HD22	2.09	0.55
3:D:139:LYS:HE3	3:D:600:GLU:HB2	1.88	0.55
3:D:222:ASN:O	3:D:301:SER:N	2.40	0.55
5:F:1067:ASN:HD22	5:F:1069:ASP:HB2	1.71	0.55
7:K:431:ILE:O	7:K:435:LYS:CB	2.55	0.55
1:M:751:LEU:HD22	2:O:1313:LEU:HD23	1.86	0.55
1:N:25:LEU:HD23	1:N:25:LEU:O	2.07	0.55
3:P:710:VAL:HG22	3:P:711:VAL:H	1.71	0.55
4:Q:14:THR:HB	4:Q:17:HIS:HB2	1.88	0.55
4:Q:1443:THR:O	4:Q:1446:PHE:HB2	2.06	0.55
4:Q:1644:ILE:HD13	4:Q:1647:LEU:HD21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:349:GLU:O	5:R:480:ARG:NH2	2.40	0.55
1:A:501:MET:HA	1:A:541:TYR:CE1	2.41	0.55
1:A:642:LEU:HA	1:A:645:GLN:NE2	2.22	0.55
3:D:484:GLN:HG2	3:D:568:GLN:OE1	2.07	0.55
3:D:956:ASN:O	3:D:960:LYS:N	2.37	0.55
3:D:1140:LYS:HZ2	1:N:204:GLU:HG2	1.70	0.55
4:E:1585:LEU:N	4:E:1590:ASP:OD2	2.40	0.55
5:F:1243:GLU:HB3	5:F:1283:LYS:HD2	1.89	0.55
6:J:324:GLN:OE1	6:J:327:LYS:HE3	2.06	0.55
6:J:334:SER:C	6:J:337:LYS:H	2.09	0.55
1:M:255:GLU:OE2	1:M:480:GLN:NE2	2.40	0.55
1:M:501:MET:HA	1:M:541:TYR:CE1	2.41	0.55
1:N:288:ASN:O	1:N:292:LYS:HB2	2.06	0.55
4:Q:277:THR:HG22	4:Q:381:VAL:HG21	1.88	0.55
5:R:902:LYS:HD3	5:R:903:ASN:H	1.71	0.55
5:R:1435:LYS:CE	5:R:1484:ARG:HH21	2.18	0.55
5:R:1435:LYS:O	5:R:1439:GLU:N	2.28	0.55
5:R:1635:ARG:O	5:R:1639:GLY:N	2.40	0.55
6:V:384:LEU:HD23	6:V:384:LEU:C	2.26	0.55
6:V:388:CYS:HA	6:V:391:LEU:HB2	1.88	0.55
1:A:607:ARG:HD2	1:A:610:LEU:HD12	1.87	0.55
5:F:355:LEU:H	5:F:355:LEU:CD1	2.20	0.55
5:F:637:ASP:HA	5:F:640:PHE:HD2	1.71	0.55
5:F:788:LEU:HD12	5:F:874:LYS:HE2	1.89	0.55
5:F:1286:PHE:O	5:F:1286:PHE:HD1	1.89	0.55
5:F:1362:ASP:CB	1:Z:125:ILE:HG21	2.37	0.55
8:I:674:GLU:OE1	8:I:675:GLN:NE2	2.40	0.55
6:J:305:ILE:HD11	8:L:668:VAL:CG1	2.35	0.55
1:N:652:ILE:HA	1:N:655:THR:HG22	1.88	0.55
3:P:545:GLN:HG3	3:P:572:LEU:CD1	2.36	0.55
4:Q:331:TYR:OH	4:Q:388:ASN:ND2	2.40	0.55
4:Q:584:ASP:OD1	4:Q:584:ASP:N	2.38	0.55
5:R:227:ASP:CB	5:R:379:SER:CB	2.84	0.55
5:R:679:ILE:O	5:R:745:ARG:NH1	2.39	0.55
5:R:1445:VAL:HG12	5:R:1453:ARG:HG3	1.89	0.55
6:V:389:ARG:CZ	6:V:389:ARG:CB	2.84	0.55
1:A:19:ASN:HA	1:A:22:LEU:HG	1.88	0.55
1:A:309:ILE:HG23	1:A:313:LEU:HD12	1.88	0.55
1:A:660:LEU:HG	1:A:685:PRO:HB3	1.88	0.55
1:A:775:LEU:CD1	1:A:832:LEU:HD11	2.37	0.55
1:A:814:MET:HG3	1:A:833:ILE:HD13	1.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:507:LEU:HG	3:D:512:LYS:CB	2.37	0.55
3:D:508:LYS:HB3	3:D:516:LEU:HA	1.88	0.55
3:D:528:PRO:HG3	3:D:624:PHE:HE2	1.67	0.55
4:E:1309:ARG:HH21	4:E:1313:ARG:HH12	1.55	0.55
4:E:1319:LEU:CD2	4:E:1398:VAL:CG2	2.76	0.55
5:F:349:GLU:O	5:F:480:ARG:NH2	2.40	0.55
5:F:1309:LEU:HD22	5:F:1309:LEU:C	2.27	0.55
8:I:751:LEU:HA	8:I:754:ASN:HD22	1.72	0.55
1:N:44:VAL:O	1:N:47:ASN:N	2.37	0.55
1:N:638:TYR:HA	1:N:641:ILE:HG22	1.87	0.55
4:Q:20:ASN:ND2	4:Q:894:VAL:O	2.40	0.55
4:Q:137:VAL:HA	4:Q:140:LYS:HG2	1.88	0.55
4:Q:264:LEU:O	4:Q:268:THR:OG1	2.23	0.55
8:U:795:LYS:C	8:U:795:LYS:HD3	2.28	0.55
3:D:187:ASP:O	3:D:210:THR:HA	2.07	0.55
3:D:467:PHE:CG	3:D:473:THR:HG23	2.42	0.55
3:D:977:LYS:HE2	1:N:315:LYS:C	2.27	0.55
4:E:1356:LEU:HB2	1:Z:453:VAL:HG21	1.88	0.55
5:F:10:THR:O	5:F:14:SER:HB3	2.06	0.55
5:F:1251:ARG:NH2	5:F:1276:ASP:CB	2.66	0.55
5:F:1364:TYR:HD1	5:F:1364:TYR:O	1.90	0.55
5:F:1435:LYS:CE	5:F:1484:ARG:HH21	2.18	0.55
6:J:389:ARG:HH22	6:J:393:ASP:CG	2.10	0.55
6:J:405:LEU:HD23	6:J:405:LEU:O	2.07	0.55
8:L:640:LEU:HD13	8:L:643:LYS:HG2	1.88	0.55
8:L:682:ASP:HA	8:L:685:MET:CE	2.37	0.55
1:M:691:ARG:O	1:M:695:ILE:HG12	2.07	0.55
1:N:125:ILE:HD12	5:R:1363:ILE:HG23	1.88	0.55
2:O:1388:HIS:C	4:Q:1331:LEU:HD11	2.26	0.55
5:R:1088:ARG:HH12	8:U:785:ASN:HA	1.72	0.55
5:R:1243:GLU:HB3	5:R:1283:LYS:HD2	1.89	0.55
7:T:533:ILE:HA	7:T:536:LYS:HB2	1.88	0.55
8:U:674:GLU:OE1	8:U:675:GLN:NE2	2.40	0.55
6:V:296:ALA:O	6:V:299:ILE:HG12	2.06	0.55
1:Z:92:THR:O	1:Z:92:THR:OG1	2.15	0.55
1:Z:779:LEU:CB	1:Z:835:ILE:HA	2.37	0.55
1:A:814:MET:CG	1:A:833:ILE:HD13	2.35	0.54
2:C:1258:GLN:CG	2:C:1299:LYS:HE3	2.36	0.54
3:D:691:LYS:O	3:D:696:ARG:NH2	2.41	0.54
4:E:318:HIS:H	4:E:321:ILE:HD11	1.71	0.54
5:F:1088:ARG:HH12	8:I:785:ASN:HA	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1200:PRO:O	5:F:1299:ASN:OD1	2.26	0.54
6:J:389:ARG:HH11	6:J:389:ARG:CG	2.19	0.54
3:P:222:ASN:O	3:P:301:SER:N	2.40	0.54
5:R:1200:PRO:O	5:R:1299:ASN:OD1	2.25	0.54
5:R:1270:GLN:O	5:R:1274:ASP:HB2	2.06	0.54
5:R:1364:TYR:O	5:R:1364:TYR:HD1	1.90	0.54
6:S:281:ASP:HA	6:S:284:ILE:HD12	1.89	0.54
7:T:529:LYS:HB2	8:U:814:LEU:HD11	1.88	0.54
6:V:309:PRO:HA	6:V:312:VAL:HB	1.88	0.54
6:V:398:VAL:HG21	7:W:466:LEU:HD12	1.86	0.54
8:X:792:GLN:HA	8:X:796:ILE:HB	1.88	0.54
3:D:155:ASN:HA	3:D:646:SER:CB	2.36	0.54
3:D:164:PHE:HA	3:D:186:ILE:HD12	1.88	0.54
3:D:475:GLU:OE2	3:D:487:GLU:N	2.40	0.54
4:E:723:LEU:HD23	4:E:794:ILE:HD12	1.88	0.54
4:E:1022:TYR:CZ	4:E:1026:THR:CG2	2.89	0.54
5:F:334:GLN:NE2	5:F:859:LYS:CE	2.68	0.54
5:F:837:TYR:CG	5:F:918:PHE:HE2	2.25	0.54
5:F:1445:VAL:HG12	5:F:1453:ARG:HG3	1.89	0.54
6:G:281:ASP:HA	6:G:284:ILE:HD12	1.89	0.54
1:M:767:ILE:O	1:M:771:ILE:HG12	2.08	0.54
1:M:775:LEU:HB3	1:M:832:LEU:CG	2.34	0.54
1:N:223:ASN:ND2	1:N:555:GLU:OE2	2.35	0.54
1:N:779:LEU:CB	1:N:835:ILE:HA	2.37	0.54
3:P:398:ILE:O	3:P:402:ILE:HG12	2.06	0.54
3:P:484:GLN:HG2	3:P:568:GLN:OE1	2.07	0.54
4:Q:1450:LEU:HD22	4:Q:1456:ILE:HG21	1.88	0.54
5:R:637:ASP:HA	5:R:640:PHE:HD2	1.71	0.54
5:R:690:GLU:CG	8:U:722:LEU:CD2	2.80	0.54
5:R:825:ILE:HG22	5:R:890:VAL:HG13	1.87	0.54
5:R:1187:ASN:CB	5:R:1190:TYR:CB	2.85	0.54
8:U:778:LYS:HA	8:U:778:LYS:HZ2	1.72	0.54
1:Z:127:GLN:HA	1:Z:127:GLN:NE2	2.16	0.54
1:Z:661:LEU:HB2	1:Z:717:LEU:HD13	1.89	0.54
3:D:443:GLY:HA2	3:D:490:LYS:HG3	1.90	0.54
3:D:605:VAL:HG13	3:D:641:VAL:HG13	1.88	0.54
5:F:225:SER:HA	5:F:383:ASN:HD21	1.73	0.54
5:F:227:ASP:CB	5:F:379:SER:CB	2.84	0.54
5:F:837:TYR:CD2	5:F:918:PHE:HE2	2.26	0.54
8:I:795:LYS:C	8:I:795:LYS:HD3	2.28	0.54
1:M:128:LEU:CD1	4:Q:1260:TYR:CE2	2.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:197:GLU:O	1:N:530:ARG:NH2	2.40	0.54
1:N:262:SER:O	1:N:266:LYS:NZ	2.41	0.54
4:Q:170:MET:HA	4:Q:173:ILE:HG22	1.89	0.54
5:R:46:ALA:O	5:R:50:GLN:HB3	2.07	0.54
6:V:281:ASP:HA	6:V:284:ILE:CD1	2.31	0.54
1:A:215:TYR:HB3	1:A:505:HIS:NE2	2.23	0.54
1:A:691:ARG:O	1:A:695:ILE:HG12	2.07	0.54
2:C:786:THR:H	2:C:789:ASP:HB2	1.72	0.54
3:D:103:LEU:HG	3:D:107:TYR:CE2	2.41	0.54
4:E:14:THR:HB	4:E:17:HIS:HB2	1.88	0.54
4:E:20:ASN:ND2	4:E:894:VAL:O	2.40	0.54
4:E:137:VAL:HA	4:E:140:LYS:HG2	1.88	0.54
4:E:180:LYS:NZ	4:E:184:ASP:OD1	2.40	0.54
7:K:379:ILE:O	7:K:382:LYS:CA	2.55	0.54
1:N:112:TYR:CB	8:U:785:ASN:CB	2.85	0.54
1:N:252:GLN:CD	1:N:498:PHE:CE2	2.79	0.54
1:N:277:TYR:O	1:N:280:GLN:NE2	2.37	0.54
1:N:661:LEU:HB2	1:N:717:LEU:HD13	1.89	0.54
2:O:786:THR:H	2:O:789:ASP:HB2	1.72	0.54
4:Q:885:VAL:HG21	4:Q:923:LEU:HD21	1.90	0.54
5:R:354:ARG:CB	5:R:354:ARG:CZ	2.85	0.54
5:R:788:LEU:HA	5:R:791:PHE:HB3	1.88	0.54
8:U:822:LYS:CE	8:U:822:LYS:CA	2.84	0.54
7:W:379:ILE:O	7:W:382:LYS:CA	2.55	0.54
8:X:672:GLY:HA2	8:X:675:GLN:HG2	1.87	0.54
1:Z:197:GLU:O	1:Z:530:ARG:NH2	2.40	0.54
1:Z:463:GLN:HE21	1:Z:487:LEU:HD11	1.72	0.54
3:D:1377:ASN:CG	1:Z:758:GLN:HE21	2.11	0.54
4:E:207:ASP:OD1	4:E:207:ASP:N	2.41	0.54
4:E:463:PHE:O	4:E:554:ILE:HA	2.07	0.54
5:F:579:ARG:HH22	5:F:701:THR:HG21	1.71	0.54
5:F:788:LEU:HA	5:F:791:PHE:HB3	1.88	0.54
5:F:1283:LYS:CE	5:F:1283:LYS:CA	2.85	0.54
7:K:352:ILE:HG21	7:K:358:LEU:CG	2.38	0.54
3:P:440:THR:OG1	3:P:444:VAL:HG12	2.07	0.54
8:X:751:LEU:HA	8:X:755:LEU:HD13	1.90	0.54
1:Z:24:GLU:OE1	1:Z:24:GLU:HA	2.07	0.54
1:A:116:LYS:O	1:A:116:LYS:HD3	2.08	0.54
1:A:814:MET:HG2	1:A:833:ILE:CG1	2.37	0.54
3:D:402:ILE:HG13	3:D:406:THR:HB	1.88	0.54
4:E:227:ILE:CD1	4:E:258:ILE:HG21	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:333:ARG:NH1	4:E:341:PHE:O	2.40	0.54
4:E:1319:LEU:HD22	4:E:1394:LYS:HB3	1.90	0.54
5:F:690:GLU:CG	8:I:722:LEU:CD2	2.80	0.54
5:F:1187:ASN:CB	5:F:1190:TYR:CB	2.85	0.54
8:L:645:THR:O	8:L:649:THR:HG23	2.08	0.54
1:M:215:TYR:HB3	1:M:505:HIS:NE2	2.23	0.54
3:P:903:ILE:HG23	3:P:953:PHE:CE1	2.42	0.54
4:Q:715:THR:HB	4:Q:742:LEU:HD22	1.90	0.54
4:Q:1585:LEU:N	4:Q:1590:ASP:OD2	2.40	0.54
6:S:427:GLU:HG2	8:U:779:THR:HG21	1.90	0.54
8:U:751:LEU:HA	8:U:754:ASN:HD22	1.72	0.54
7:W:394:THR:HB	7:W:398:ILE:HG13	1.90	0.54
7:W:431:ILE:O	7:W:435:LYS:CB	2.55	0.54
3:D:1238:ARG:HA	1:Z:830:SER:HB2	1.87	0.54
4:E:33:ASP:OD2	4:E:946:TRP:NE1	2.40	0.54
4:E:885:VAL:HG21	4:E:923:LEU:HD21	1.90	0.54
5:F:44:ASN:OD1	5:F:44:ASN:N	2.40	0.54
5:F:46:ALA:O	5:F:50:GLN:HB3	2.07	0.54
7:H:529:LYS:HB2	8:I:814:LEU:HD11	1.88	0.54
6:J:382:LYS:HE2	6:J:382:LYS:N	2.22	0.54
1:N:463:GLN:HE21	1:N:487:LEU:HD11	1.72	0.54
3:P:175:ILE:HG12	3:P:182:CYS:SG	2.47	0.54
3:P:467:PHE:CG	3:P:473:THR:HG23	2.42	0.54
3:P:475:GLU:OE2	3:P:487:GLU:N	2.40	0.54
3:P:507:LEU:HG	3:P:512:LYS:CB	2.37	0.54
3:P:784:ILE:O	3:P:949:PHE:HB2	2.08	0.54
5:R:133:GLU:HA	5:R:136:LYS:HD3	1.89	0.54
5:R:1550:LEU:CD1	5:R:1604:ILE:HG21	2.38	0.54
7:T:426:GLY:HA3	8:U:735:ASN:C	2.28	0.54
4:E:1290:SER:OG	4:E:1297:LYS:NZ	2.40	0.54
5:F:133:GLU:HA	5:F:136:LYS:HD3	1.89	0.54
5:F:1550:LEU:CD1	5:F:1604:ILE:HG21	2.38	0.54
7:H:298:SER:HA	7:H:306:THR:HA	1.90	0.54
8:I:752:ASP:OD1	8:I:756:ASN:ND2	2.40	0.54
7:K:433:GLU:HB2	8:L:741:ARG:HH11	1.73	0.54
3:P:187:ASP:O	3:P:210:THR:HA	2.07	0.54
3:P:443:GLY:HA2	3:P:490:LYS:HG3	1.90	0.54
4:Q:1382:THR:OG1	4:Q:1383:GLN:NE2	2.41	0.54
5:R:1529:ALA:HB1	5:R:1611:VAL:HG13	1.83	0.54
7:W:444:LEU:C	7:W:447:SER:CB	2.75	0.54
7:W:509:ILE:HD12	7:W:509:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:262:SER:O	1:Z:266:LYS:NZ	2.41	0.54
1:A:545:PHE:HD2	1:A:549:ASP:HB2	1.73	0.54
1:A:772:PRO:HA	1:A:828:THR:HG21	1.87	0.54
3:D:784:ILE:O	3:D:949:PHE:HB2	2.08	0.54
5:F:159:LYS:CE	5:F:363:ASP:HA	2.26	0.54
5:F:1498:LEU:HG	5:F:1514:GLU:HB3	1.88	0.54
8:I:805:ARG:CB	1:Z:88:LYS:HZ1	2.21	0.54
8:I:814:LEU:HD21	1:Z:59:LYS:CA	2.38	0.54
1:M:660:LEU:HG	1:M:685:PRO:HB3	1.88	0.54
4:Q:757:LYS:HA	5:R:1195:PHE:CD2	2.43	0.54
4:Q:1005:LEU:HD13	4:Q:1046:LYS:HZ1	1.73	0.54
5:R:1097:TYR:OH	5:R:1164:PHE:CD1	2.49	0.54
5:R:1674:CYS:HA	5:R:1677:THR:OG1	2.07	0.54
6:V:405:LEU:O	6:V:405:LEU:HD23	2.07	0.54
3:D:222:ASN:HB3	3:D:301:SER:HA	1.90	0.54
5:F:389:LEU:H	5:F:389:LEU:CD1	2.16	0.54
5:F:1363:ILE:HG23	1:Z:125:ILE:HD12	1.89	0.54
5:F:1635:ARG:O	5:F:1639:GLY:N	2.40	0.54
8:L:751:LEU:HA	8:L:755:LEU:HD13	1.90	0.54
1:N:141:ASN:ND2	5:R:1606:GLN:HB3	2.19	0.54
2:O:1261:PHE:CZ	2:O:1265:ILE:HD11	2.43	0.54
3:P:160:ILE:CG2	3:P:191:ILE:HG21	2.37	0.54
4:Q:1409:ALA:HB1	4:Q:1459:LYS:HG3	1.90	0.54
7:W:352:ILE:HG21	7:W:358:LEU:CG	2.38	0.54
1:Z:462:PHE:HA	1:Z:465:ILE:HD12	1.89	0.54
1:Z:789:LEU:HB3	1:Z:799:LYS:HD2	1.90	0.54
1:A:625:GLU:OE1	1:A:629:ARG:NH2	2.33	0.53
2:C:197:ILE:HD13	2:C:224:VAL:HG11	1.91	0.53
3:D:585:ILE:HG21	3:D:593:VAL:HB	1.90	0.53
3:D:662:LEU:HB3	3:D:667:LEU:HD13	1.90	0.53
7:H:426:GLY:HA3	8:I:735:ASN:C	2.27	0.53
7:K:321:ALA:C	7:K:348:ILE:CD1	2.69	0.53
1:M:116:LYS:O	1:M:116:LYS:HD3	2.08	0.53
1:M:128:LEU:HB3	4:Q:1260:TYR:CE2	2.40	0.53
4:Q:207:ASP:N	4:Q:207:ASP:OD1	2.41	0.53
4:Q:826:SER:OG	4:Q:844:TYR:OH	2.26	0.53
5:R:579:ARG:HH22	5:R:701:THR:HG21	1.71	0.53
5:R:917:PHE:CE2	5:R:922:LEU:HD21	2.43	0.53
5:R:920:ILE:HG13	5:R:924:ALA:HA	1.89	0.53
5:R:1024:LEU:HD22	5:R:1049:LEU:HD23	1.90	0.53
5:R:1098:SER:O	5:R:1101:ILE:HB	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T:298:SER:HA	7:T:306:THR:HA	1.90	0.53
7:T:303:THR:OG1	7:T:329:HIS:O	2.22	0.53
8:U:752:ASP:OD1	8:U:756:ASN:ND2	2.40	0.53
7:W:337:GLN:O	7:W:341:LYS:CD	2.56	0.53
8:X:645:THR:O	8:X:649:THR:HG23	2.08	0.53
1:Z:16:LYS:HA	1:Z:16:LYS:CE	2.36	0.53
4:E:1382:THR:OG1	4:E:1383:GLN:NE2	2.41	0.53
5:F:354:ARG:CB	5:F:354:ARG:CZ	2.85	0.53
5:F:427:THR:OG1	5:F:428:GLN:NE2	2.41	0.53
5:F:1014:SER:N	8:I:788:ASP:O	2.40	0.53
6:G:295:LYS:HD3	6:J:363:LYS:HZ3	1.73	0.53
6:J:281:ASP:HA	6:J:284:ILE:CD1	2.31	0.53
6:J:388:CYS:C	6:J:391:LEU:HB2	2.28	0.53
1:M:814:MET:CG	1:M:833:ILE:HD13	2.35	0.53
4:Q:607:SER:OG	4:Q:608:ILE:N	2.40	0.53
6:S:411:ASN:OD1	6:S:411:ASN:N	2.37	0.53
6:V:311:ASP:HA	6:V:314:TYR:CD2	2.43	0.53
7:W:433:GLU:HB2	8:X:741:ARG:HH11	1.73	0.53
1:A:128:LEU:CD1	4:E:1260:TYR:CE2	2.89	0.53
1:A:391:HIS:NE2	1:A:416:GLY:O	2.33	0.53
2:C:786:THR:N	2:C:789:ASP:HB2	2.24	0.53
3:D:440:THR:OG1	3:D:444:VAL:HG12	2.07	0.53
4:E:29:VAL:HG12	4:E:32:VAL:HG11	1.91	0.53
4:E:1268:SER:OG	4:E:1269:GLY:N	2.42	0.53
5:F:909:LEU:O	7:H:403:SER:C	2.47	0.53
5:F:1037:ASN:N	5:F:1040:THR:CB	2.69	0.53
5:F:1473:ASN:OD1	5:F:1476:LEU:N	2.34	0.53
6:G:296:ALA:HA	6:J:363:LYS:CE	2.39	0.53
1:M:83:VAL:HA	1:M:86:PHE:CD2	2.43	0.53
1:N:799:LYS:HA	1:N:802:GLN:HE21	1.73	0.53
3:P:501:SER:O	3:P:508:LYS:NZ	2.41	0.53
5:R:726:SER:O	5:R:726:SER:OG	2.27	0.53
5:R:837:TYR:CD2	5:R:918:PHE:HE2	2.26	0.53
5:R:922:LEU:HD12	5:R:922:LEU:N	2.23	0.53
5:R:1634:LYS:HD3	5:R:1638:ILE:HD12	1.91	0.53
6:V:310:ARG:HG2	6:V:314:TYR:CZ	2.44	0.53
1:Z:674:LEU:HD21	1:Z:724:ARG:HG3	1.90	0.53
4:E:607:SER:OG	4:E:608:ILE:N	2.40	0.53
4:E:789:GLN:OE1	4:E:792:GLN:NE2	2.40	0.53
8:I:785:ASN:CB	1:Z:112:TYR:CB	2.85	0.53
7:K:394:THR:HB	7:K:398:ILE:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:87:ILE:N	1:N:87:ILE:CD1	2.72	0.53
3:P:1020:ASN:ND2	1:Z:252:GLN:HG2	2.23	0.53
5:R:757:PHE:HD1	5:R:780:ILE:HD11	1.74	0.53
5:R:788:LEU:HD12	5:R:874:LYS:HE2	1.88	0.53
5:R:824:ALA:O	5:R:826:PRO:N	2.41	0.53
5:R:1110:MET:HE3	5:R:1157:TRP:HZ2	1.74	0.53
8:U:752:ASP:O	8:U:756:ASN:ND2	2.42	0.53
3:D:284:PHE:CE1	3:D:296:LEU:HG	2.42	0.53
4:E:864:SER:OG	4:E:1147:LEU:O	2.24	0.53
4:E:1531:SER:O	4:E:1535:ASN:ND2	2.42	0.53
5:F:286:ILE:HA	5:F:289:CYS:HB2	1.91	0.53
5:F:320:GLU:OE1	5:F:351:HIS:HE1	1.92	0.53
5:F:835:LYS:O	5:F:838:LYS:N	2.42	0.53
5:F:917:PHE:CE2	5:F:922:LEU:HD21	2.43	0.53
5:F:1027:GLN:CG	5:F:1036:PRO:HA	2.37	0.53
6:G:295:LYS:C	6:J:363:LYS:HZ1	2.10	0.53
7:H:303:THR:OG1	7:H:329:HIS:O	2.22	0.53
6:J:389:ARG:CG	6:J:389:ARG:NH1	2.71	0.53
1:M:16:LYS:HG3	6:V:468:ALA:CB	2.37	0.53
1:N:758:GLN:HE21	3:P:1377:ASN:CG	2.11	0.53
3:P:222:ASN:HB3	3:P:301:SER:HA	1.90	0.53
3:P:977:LYS:HE2	1:Z:315:LYS:CB	2.39	0.53
5:R:922:LEU:HD23	7:T:400:LYS:HZ1	1.66	0.53
1:A:255:GLU:OE2	1:A:480:GLN:NE2	2.40	0.53
4:E:170:MET:HA	4:E:173:ILE:HG22	1.89	0.53
4:E:826:SER:OG	4:E:844:TYR:OH	2.26	0.53
5:F:1098:SER:O	5:F:1101:ILE:HB	2.09	0.53
6:G:327:LYS:HZ2	1:Z:46:ILE:CA	2.18	0.53
8:I:778:LYS:HG2	8:I:794:ILE:CB	2.39	0.53
6:J:310:ARG:HG2	6:J:314:TYR:CZ	2.43	0.53
6:J:389:ARG:CB	6:J:389:ARG:CZ	2.84	0.53
7:K:367:GLU:O	7:K:371:GLN:HG3	2.09	0.53
1:M:21:LYS:HE2	1:M:25:LEU:HG	1.90	0.53
1:M:289:LEU:HD22	1:M:308:PHE:HA	1.91	0.53
1:M:687:LEU:HD23	1:M:690:ARG:HH11	1.74	0.53
1:M:814:MET:HG2	1:M:833:ILE:CG1	2.37	0.53
3:P:576:LEU:HD13	3:P:601:THR:O	2.08	0.53
4:Q:1234:LEU:HD12	4:Q:1287:ILE:HG13	1.90	0.53
8:U:778:LYS:HG2	8:U:794:ILE:CB	2.39	0.53
6:V:382:LYS:HE2	6:V:382:LYS:N	2.23	0.53
1:Z:623:ILE:HG23	1:Z:624:THR:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:799:LYS:HA	1:Z:802:GLN:HE21	1.73	0.53
3:D:515:VAL:CG1	3:D:644:SER:HB3	2.32	0.53
3:D:576:LEU:HD13	3:D:601:THR:O	2.08	0.53
3:D:775:LEU:O	3:D:779:ARG:HG3	2.09	0.53
4:E:1259:PHE:CD1	4:E:1259:PHE:C	2.81	0.53
5:F:1024:LEU:HD22	5:F:1049:LEU:HD23	1.90	0.53
6:G:295:LYS:C	6:J:363:LYS:HZ2	2.12	0.53
7:K:427:LEU:N	7:K:428:PRO:CD	2.72	0.53
7:K:444:LEU:C	7:K:447:SER:CB	2.75	0.53
7:K:483:VAL:H	7:K:494:MET:N	2.07	0.53
1:N:789:LEU:HB3	1:N:799:LYS:HD2	1.90	0.53
3:P:662:LEU:HB3	3:P:667:LEU:HD13	1.90	0.53
3:P:775:LEU:O	3:P:779:ARG:HG3	2.09	0.53
4:Q:789:GLN:OE1	4:Q:792:GLN:NE2	2.40	0.53
4:Q:1341:GLU:OE1	4:Q:1346:LYS:NZ	2.42	0.53
6:S:295:LYS:HB3	6:V:363:LYS:HZ2	1.73	0.53
7:W:367:GLU:O	7:W:371:GLN:HG3	2.09	0.53
2:C:172:CYS:HB2	2:C:183:TRP:CE2	2.44	0.53
2:C:1261:PHE:CZ	2:C:1265:ILE:HD11	2.43	0.53
3:D:403:GLY:O	3:D:408:ARG:NE	2.37	0.53
3:D:470:SER:HB3	3:D:475:GLU:CG	2.39	0.53
4:E:715:THR:HB	4:E:742:LEU:HD22	1.90	0.53
4:E:757:LYS:HA	5:F:1195:PHE:CD2	2.44	0.53
4:E:1341:GLU:OE1	4:E:1346:LYS:NZ	2.42	0.53
5:F:333:GLU:C	5:F:335:ASP:H	2.11	0.53
5:F:936:ILE:O	5:F:940:ASN:ND2	2.42	0.53
6:J:384:LEU:HD21	7:K:455:LYS:HG2	1.91	0.53
1:M:309:ILE:HG23	1:M:313:LEU:HD12	1.89	0.53
1:M:681:SER:HB2	1:M:691:ARG:HD3	1.91	0.53
1:N:431:SER:OG	1:N:432:ILE:N	2.42	0.53
2:O:693:LEU:HB3	2:O:694:PHE:HD1	1.74	0.53
5:R:836:ILE:N	5:R:836:ILE:CD1	2.72	0.53
5:R:1283:LYS:CE	5:R:1283:LYS:CA	2.85	0.53
6:V:334:SER:C	6:V:337:LYS:H	2.09	0.53
6:V:411:ASN:OD1	6:V:411:ASN:N	2.41	0.53
7:W:385:GLN:CA	7:W:385:GLN:NE2	2.72	0.53
1:Z:127:GLN:CA	1:Z:127:GLN:NE2	2.72	0.53
1:A:48:GLU:O	7:K:514:THR:HG23	2.09	0.53
1:A:289:LEU:HD22	1:A:308:PHE:HA	1.91	0.53
1:A:681:SER:HB2	1:A:691:ARG:HD3	1.91	0.53
4:E:1005:LEU:HD13	4:E:1046:LYS:HZ1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:1234:LEU:HD12	4:E:1287:ILE:HG13	1.90	0.53
5:F:333:GLU:C	5:F:335:ASP:N	2.61	0.53
7:K:337:GLN:O	7:K:341:LYS:CD	2.56	0.53
1:N:462:PHE:HA	1:N:465:ILE:HD12	1.89	0.53
2:O:172:CYS:HB2	2:O:183:TRP:CE2	2.44	0.53
4:Q:827:PRO:HB3	4:Q:893:TYR:CZ	2.44	0.53
4:Q:1290:SER:OG	4:Q:1297:LYS:NZ	2.40	0.53
4:Q:1294:ASP:O	4:Q:1298:ASN:N	2.42	0.53
4:Q:1319:LEU:HD22	4:Q:1394:LYS:HB3	1.90	0.53
5:R:835:LYS:O	5:R:838:LYS:N	2.42	0.53
5:R:837:TYR:CD2	5:R:918:PHE:CE2	2.97	0.53
5:R:841:PHE:HE2	5:R:918:PHE:CE1	2.22	0.53
1:A:20:LYS:CB	6:J:468:ALA:HB1	2.39	0.53
2:C:693:LEU:HB3	2:C:694:PHE:HD1	1.74	0.53
3:D:150:LYS:HD3	3:D:153:VAL:CG2	2.39	0.53
5:F:824:ALA:O	5:F:826:PRO:N	2.41	0.53
8:I:752:ASP:O	8:I:756:ASN:ND2	2.42	0.53
1:N:127:GLN:CA	1:N:127:GLN:NE2	2.72	0.53
2:O:885:VAL:CG1	2:O:901:ILE:HG23	2.39	0.53
5:R:286:ILE:HA	5:R:289:CYS:HB2	1.91	0.53
1:Z:87:ILE:N	1:Z:87:ILE:CD1	2.72	0.53
5:F:1360:LEU:CD1	5:F:1360:LEU:N	2.73	0.52
5:F:1370:LEU:O	5:F:1371:ILE:CG1	2.56	0.52
5:F:1634:LYS:HD3	5:F:1638:ILE:HD12	1.91	0.52
6:G:458:ALA:CB	1:Z:32:LEU:HD11	2.38	0.52
6:J:433:LYS:CB	7:K:499:GLY:CA	2.81	0.52
1:N:125:ILE:CD1	5:R:1363:ILE:CG2	2.85	0.52
1:N:125:ILE:HD12	5:R:1363:ILE:HG22	1.91	0.52
1:N:252:GLN:NE2	1:N:498:PHE:CD2	2.77	0.52
1:N:439:HIS:HD1	1:N:457:TYR:HH	1.49	0.52
3:P:691:LYS:O	3:P:696:ARG:NH2	2.41	0.52
4:Q:864:SER:OG	4:Q:1147:LEU:O	2.24	0.52
5:R:355:LEU:HD12	5:R:355:LEU:H	1.74	0.52
5:R:922:LEU:N	5:R:922:LEU:CD1	2.72	0.52
5:R:958:SER:HB3	5:R:962:ARG:HA	1.91	0.52
1:A:767:ILE:O	1:A:771:ILE:HG12	2.08	0.52
3:D:977:LYS:HD3	1:N:316:ALA:HB3	1.89	0.52
6:J:383:LYS:CE	8:L:756:ASN:HA	2.23	0.52
7:K:511:GLU:O	7:K:515:ASN:ND2	2.42	0.52
1:N:536:ASN:O	1:N:540:ASN:ND2	2.42	0.52
3:P:263:VAL:HB	3:P:311:LYS:CE	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:585:ILE:HG21	3:P:593:VAL:HB	1.90	0.52
4:Q:1259:PHE:C	4:Q:1259:PHE:CD1	2.81	0.52
5:R:389:LEU:N	5:R:389:LEU:CD1	2.72	0.52
5:R:1376:THR:O	5:R:1376:THR:OG1	2.24	0.52
6:V:324:GLN:O	6:V:328:GLN:HG2	2.09	0.52
6:V:350:PHE:HD1	7:W:419:LEU:HD12	1.73	0.52
1:A:590:LEU:HD13	1:A:624:THR:HG23	1.91	0.52
4:E:954:ILE:HG12	4:E:1015:LYS:HG2	1.92	0.52
4:E:1170:ASP:O	4:E:1174:ASN:ND2	2.43	0.52
5:F:210:LYS:HG2	5:F:214:LEU:HD13	1.92	0.52
5:F:757:PHE:HD1	5:F:780:ILE:HD11	1.74	0.52
5:F:1672:MET:CB	1:Z:149:ALA:CB	2.84	0.52
1:M:818:GLY:O	1:M:821:GLN:NE2	2.40	0.52
1:N:46:ILE:CA	6:S:327:LYS:HZ2	2.21	0.52
1:N:59:LYS:CA	8:U:814:LEU:HD21	2.38	0.52
1:N:757:ALA:CB	1:N:819:MET:C	2.39	0.52
1:N:807:LYS:O	1:N:836:ASP:O	2.27	0.52
3:P:956:ASN:O	3:P:960:LYS:N	2.37	0.52
4:Q:724:SER:HA	4:Q:1166:VAL:HA	1.90	0.52
4:Q:954:ILE:HG12	4:Q:1015:LYS:HG2	1.92	0.52
4:Q:976:PHE:CZ	7:W:457:ASN:HB3	2.44	0.52
5:R:543:VAL:HA	5:R:546:TYR:HB2	1.91	0.52
5:R:909:LEU:O	7:T:403:SER:C	2.47	0.52
5:R:1251:ARG:HH22	5:R:1276:ASP:HB3	1.73	0.52
5:R:1251:ARG:NH2	5:R:1276:ASP:HB3	2.25	0.52
6:V:332:LYS:HG2	7:W:398:ILE:HG21	1.91	0.52
6:V:376:LYS:NZ	8:X:756:ASN:ND2	2.57	0.52
1:A:83:VAL:HA	1:A:86:PHE:CD2	2.43	0.52
3:D:186:ILE:CG2	3:D:189:LYS:HB2	2.40	0.52
4:E:368:ILE:HG22	4:E:369:LEU:HD12	1.91	0.52
5:F:837:TYR:CD2	5:F:918:PHE:CE2	2.97	0.52
5:F:920:ILE:HG13	5:F:924:ALA:HA	1.89	0.52
5:F:1363:ILE:CG2	1:Z:125:ILE:CD1	2.85	0.52
6:G:427:GLU:HG2	8:I:779:THR:HG21	1.90	0.52
6:J:311:ASP:HA	6:J:314:TYR:CD2	2.43	0.52
6:J:390:ILE:N	6:J:390:ILE:CD1	2.72	0.52
7:K:385:GLN:CA	7:K:385:GLN:NE2	2.72	0.52
1:M:274:GLY:HA2	1:M:484:LEU:HD22	1.91	0.52
1:N:391:HIS:NE2	1:N:417:ARG:O	2.42	0.52
3:P:664:ASP:O	3:P:667:LEU:N	2.43	0.52
4:Q:29:VAL:HG12	4:Q:32:VAL:HG11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:368:ILE:HG22	4:Q:369:LEU:HD12	1.92	0.52
4:Q:1531:SER:O	4:Q:1535:ASN:ND2	2.42	0.52
6:V:390:ILE:CG1	8:X:766:ILE:HD12	2.40	0.52
7:W:309:ARG:HG3	7:W:353:TYR:CZ	2.44	0.52
1:Z:289:LEU:HD23	1:Z:308:PHE:HA	1.91	0.52
1:Z:807:LYS:O	1:Z:836:ASP:O	2.27	0.52
1:A:687:LEU:HD23	1:A:690:ARG:HH11	1.74	0.52
3:D:944:LEU:O	3:D:947:LEU:HB2	2.10	0.52
3:D:1467:SER:HB2	1:Z:621:HIS:CE1	2.45	0.52
4:E:976:PHE:CZ	7:K:457:ASN:HB3	2.44	0.52
5:F:1251:ARG:NH2	5:F:1276:ASP:HB3	2.25	0.52
5:F:1522:VAL:HA	5:F:1525:LEU:HD12	1.91	0.52
7:H:522:TYR:CB	1:Z:54:PHE:C	2.77	0.52
8:I:781:ASN:HD22	8:I:781:ASN:N	2.08	0.52
6:J:332:LYS:HG2	7:K:398:ILE:HG21	1.91	0.52
1:M:224:ASN:OD1	1:M:607:ARG:NH2	2.41	0.52
3:P:421:VAL:HG13	3:P:491:ARG:CB	2.39	0.52
5:R:210:LYS:HG2	5:R:214:LEU:HD13	1.92	0.52
5:R:333:GLU:C	5:R:335:ASP:N	2.61	0.52
5:R:1027:GLN:CG	5:R:1036:PRO:HA	2.37	0.52
5:R:1605:PHE:HA	5:R:1608:ILE:HG12	1.91	0.52
3:D:421:VAL:HG13	3:D:491:ARG:CB	2.39	0.52
3:D:501:SER:O	3:D:508:LYS:NZ	2.41	0.52
3:D:1019:ARG:C	1:N:251:ALA:H	2.05	0.52
4:E:107:SER:HB2	4:E:190:GLN:HE22	1.74	0.52
4:E:584:ASP:N	4:E:584:ASP:OD1	2.38	0.52
4:E:827:PRO:HB3	4:E:893:TYR:CZ	2.44	0.52
4:E:1409:ALA:HB1	4:E:1459:LYS:HG3	1.90	0.52
4:E:1563:LEU:HD12	4:E:1564:LEU:HG	1.92	0.52
5:F:154:GLN:HA	5:F:157:GLU:HG3	1.92	0.52
5:F:836:ILE:N	5:F:836:ILE:CD1	2.72	0.52
5:F:1067:ASN:N	5:F:1067:ASN:OD1	2.42	0.52
5:F:1360:LEU:C	5:F:1362:ASP:H	2.13	0.52
5:F:1664:ASN:HA	5:F:1667:VAL:HG12	1.92	0.52
6:J:364:ILE:HG22	6:J:367:ASN:HD21	1.75	0.52
1:M:812:GLN:HA	1:M:815:ILE:HD12	1.91	0.52
1:N:54:PHE:C	7:T:522:TYR:CB	2.77	0.52
1:N:830:SER:HB2	3:P:1238:ARG:HA	1.87	0.52
3:P:970:ILE:HG23	3:P:975:ILE:CD1	2.40	0.52
4:Q:1563:LEU:HD12	4:Q:1564:LEU:HG	1.92	0.52
5:R:328:ASP:O	5:R:331:ILE:HD11	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:427:THR:OG1	5:R:428:GLN:NE2	2.41	0.52
5:R:928:LEU:HD12	5:R:928:LEU:N	2.01	0.52
5:R:936:ILE:O	5:R:940:ASN:ND2	2.42	0.52
7:W:310:ALA:CB	7:W:352:ILE:HB	2.39	0.52
7:W:483:VAL:H	7:W:494:MET:N	2.06	0.52
1:A:812:GLN:HA	1:A:815:ILE:HD12	1.91	0.52
3:D:160:ILE:CG2	3:D:191:ILE:HG21	2.37	0.52
4:E:33:ASP:OD1	4:E:33:ASP:N	2.43	0.52
4:E:739:ILE:HG21	4:E:795:ILE:HG22	1.92	0.52
5:F:328:ASP:O	5:F:331:ILE:HD11	2.09	0.52
5:F:639:LEU:HA	5:F:642:PHE:HB3	1.91	0.52
5:F:1605:PHE:HA	5:F:1608:ILE:HG12	1.91	0.52
7:H:314:ASN:HB2	7:H:361:ARG:HH12	1.75	0.52
6:J:405:LEU:HD11	7:K:469:ARG:O	2.10	0.52
6:J:432:LEU:HA	8:L:782:ILE:O	2.10	0.52
7:K:339:MET:SD	7:K:342:LYS:NZ	2.68	0.52
8:L:643:LYS:HG3	8:L:647:GLN:NE2	2.22	0.52
8:L:675:GLN:O	8:L:679:LEU:HD13	2.10	0.52
2:O:786:THR:N	2:O:789:ASP:HB2	2.24	0.52
4:Q:33:ASP:N	4:Q:33:ASP:OD1	2.42	0.52
5:R:44:ASN:N	5:R:44:ASN:OD1	2.40	0.52
5:R:841:PHE:CD2	5:R:918:PHE:CD1	2.89	0.52
6:V:388:CYS:CB	7:W:455:LYS:HD2	2.32	0.52
7:W:313:TYR:CD1	7:W:349:PRO:HB3	2.45	0.52
1:Z:414:LEU:HD11	1:Z:438:MET:HB2	1.92	0.52
1:A:274:GLY:HA2	1:A:484:LEU:HD22	1.91	0.52
3:D:233:LEU:HD11	3:D:282:ILE:HD13	1.92	0.52
3:D:263:VAL:HB	3:D:311:LYS:CE	2.37	0.52
3:D:664:ASP:O	3:D:667:LEU:N	2.42	0.52
3:D:1020:ASN:CB	1:N:251:ALA:HB3	2.33	0.52
5:F:922:LEU:N	5:F:922:LEU:CD1	2.72	0.52
5:F:1392:ILE:CB	5:F:1405:PHE:CE2	2.93	0.52
8:I:814:LEU:HD23	1:Z:59:LYS:CB	2.39	0.52
7:K:309:ARG:HG3	7:K:353:TYR:CZ	2.44	0.52
7:K:352:ILE:HG21	7:K:358:LEU:CD2	2.40	0.52
7:K:387:GLN:NE2	7:K:387:GLN:CA	2.73	0.52
8:L:692:LYS:HD2	8:L:695:GLN:HE21	1.75	0.52
1:M:342:ARG:NE	1:M:434:ASP:OD1	2.41	0.52
1:N:414:LEU:HD11	1:N:438:MET:HB2	1.92	0.52
1:N:670:LEU:HD13	1:N:724:ARG:HD3	1.92	0.52
3:P:528:PRO:CG	3:P:624:PHE:HE2	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:177:GLN:O	5:R:181:PHE:HB2	2.10	0.52
5:R:1427:LEU:HD22	5:R:1466:LEU:HG	1.91	0.52
5:R:1522:VAL:HA	5:R:1525:LEU:HD12	1.91	0.52
6:V:370:ASP:HA	6:V:373:PHE:CB	2.40	0.52
6:V:384:LEU:HD21	7:W:455:LYS:HG2	1.91	0.52
7:W:427:LEU:N	7:W:428:PRO:CD	2.72	0.52
3:D:242:MET:O	3:D:259:THR:OG1	2.21	0.52
3:D:969:SER:O	3:D:972:ASN:HB2	2.10	0.52
5:F:157:GLU:OE1	5:F:183:ARG:NH1	2.42	0.52
5:F:389:LEU:N	5:F:389:LEU:CD1	2.72	0.52
5:F:690:GLU:HG2	8:I:722:LEU:HD21	1.92	0.52
5:F:711:GLN:HG2	5:F:779:PRO:HB3	1.92	0.52
5:F:1094:GLY:O	5:F:1098:SER:N	2.42	0.52
7:K:535:LYS:CA	8:L:818:ILE:CB	2.75	0.52
8:L:692:LYS:HD2	8:L:695:GLN:NE2	2.25	0.52
1:M:545:PHE:HD2	1:M:549:ASP:HB2	1.74	0.52
1:N:734:GLU:OE2	1:N:738:GLN:NE2	2.43	0.52
2:O:197:ILE:HD13	2:O:224:VAL:HG11	1.91	0.52
2:O:317:LEU:HB2	2:O:318:ILE:HD12	1.92	0.52
3:P:421:VAL:HG13	3:P:491:ARG:HB3	1.92	0.52
3:P:484:GLN:NE2	3:P:565:VAL:HA	2.24	0.52
3:P:944:LEU:O	3:P:947:LEU:HB2	2.10	0.52
4:Q:107:SER:HB2	4:Q:190:GLN:HE22	1.74	0.52
4:Q:180:LYS:NZ	4:Q:184:ASP:OD1	2.40	0.52
5:R:157:GLU:OE1	5:R:183:ARG:NH1	2.42	0.52
5:R:639:LEU:HA	5:R:642:PHE:HB3	1.91	0.52
5:R:929:TYR:O	5:R:931:GLY:N	2.43	0.52
5:R:1360:LEU:C	5:R:1362:ASP:H	2.12	0.52
6:S:296:ALA:HA	6:V:363:LYS:CE	2.39	0.52
7:T:391:GLU:O	7:T:395:ALA:HB3	2.10	0.52
6:V:364:ILE:HG22	6:V:367:ASN:HD21	1.75	0.52
6:V:390:ILE:N	6:V:390:ILE:CD1	2.72	0.52
7:W:321:ALA:HB2	7:W:346:GLN:HA	1.92	0.52
1:Z:431:SER:OG	1:Z:432:ILE:N	2.42	0.52
1:Z:536:ASN:O	1:Z:540:ASN:ND2	2.42	0.52
3:D:792:THR:HA	3:D:830:SER:HB2	1.92	0.52
4:E:681:LEU:HA	4:E:690:LEU:CB	2.40	0.52
4:E:724:SER:HA	4:E:1166:VAL:HA	1.90	0.52
5:F:1227:THR:HA	7:H:472:ASN:HB3	1.92	0.52
6:G:455:GLU:CB	1:Z:32:LEU:CD2	2.79	0.52
8:I:818:ILE:CD1	8:I:818:ILE:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:324:GLN:O	6:J:328:GLN:HG2	2.09	0.52
6:J:442:THR:CB	7:K:509:ILE:CD1	2.88	0.52
1:M:590:LEU:HD13	1:M:624:THR:HG23	1.91	0.52
1:N:207:ILE:HD12	1:N:247:GLY:CA	2.29	0.52
1:N:289:LEU:HD23	1:N:308:PHE:HA	1.91	0.52
3:P:186:ILE:CG2	3:P:189:LYS:HB2	2.40	0.52
3:P:233:LEU:HD11	3:P:282:ILE:HD13	1.92	0.52
3:P:977:LYS:HE2	1:Z:315:LYS:C	2.30	0.52
4:Q:1170:ASP:O	4:Q:1174:ASN:ND2	2.42	0.52
5:R:690:GLU:HG3	8:U:722:LEU:CG	2.40	0.52
5:R:711:GLN:HG2	5:R:779:PRO:HB3	1.92	0.52
5:R:838:LYS:HA	5:R:841:PHE:HB2	1.92	0.52
5:R:950:GLU:N	5:R:950:GLU:OE2	2.43	0.52
5:R:1227:THR:HA	7:T:472:ASN:HB3	1.91	0.52
6:V:319:GLU:HA	6:V:322:THR:CG2	2.36	0.52
6:V:382:LYS:N	6:V:382:LYS:CE	2.73	0.52
6:V:404:ASP:O	6:V:408:ALA:CA	2.58	0.52
6:V:405:LEU:HD11	7:W:469:ARG:O	2.10	0.52
8:X:671:LYS:O	8:X:675:GLN:HG2	2.10	0.52
1:Z:391:HIS:NE2	1:Z:417:ARG:O	2.42	0.52
1:A:27:GLU:OE1	1:A:27:GLU:HA	2.10	0.51
4:E:141:LEU:HA	4:E:144:ILE:HD12	1.92	0.51
4:E:182:PHE:HZ	5:F:1189:MET:CB	2.23	0.51
4:E:254:SER:HG	5:F:1191:SER:HG	0.68	0.51
5:F:726:SER:O	5:F:726:SER:OG	2.27	0.51
5:F:929:TYR:O	5:F:931:GLY:N	2.43	0.51
5:F:1510:ASP:N	5:F:1510:ASP:OD1	2.42	0.51
6:J:389:ARG:CZ	6:J:389:ARG:HB3	2.40	0.51
1:N:88:LYS:HZ1	8:U:805:ARG:CB	2.22	0.51
1:N:634:ASP:O	5:R:1618:SER:HB2	2.10	0.51
1:N:639:ASP:OD1	1:N:639:ASP:N	2.43	0.51
1:N:674:LEU:HD21	1:N:724:ARG:HG3	1.91	0.51
3:P:470:SER:HB3	3:P:475:GLU:CG	2.40	0.51
3:P:887:GLN:OE1	3:P:887:GLN:N	2.43	0.51
4:Q:739:ILE:HG21	4:Q:795:ILE:HG22	1.92	0.51
4:Q:1268:SER:OG	4:Q:1269:GLY:N	2.42	0.51
5:R:1370:LEU:O	5:R:1371:ILE:CG1	2.56	0.51
7:T:359:ASN:HA	7:T:362:ASN:HD22	1.75	0.51
8:U:795:LYS:CA	8:U:795:LYS:NZ	2.73	0.51
1:Z:670:LEU:HD13	1:Z:724:ARG:HD3	1.92	0.51
1:A:139:PHE:CD1	1:A:139:PHE:C	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ASP:O	1:A:456:ARG:NE	2.38	0.51
1:A:641:ILE:HG23	1:A:653:VAL:HG13	1.91	0.51
1:A:817:ALA:HB2	1:A:832:LEU:HD13	1.92	0.51
2:C:1258:GLN:CD	2:C:1299:LYS:HE3	2.30	0.51
3:D:240:LEU:HB3	3:D:263:VAL:CG1	2.40	0.51
3:D:484:GLN:NE2	3:D:565:VAL:HA	2.24	0.51
3:D:528:PRO:CG	3:D:624:PHE:HE2	2.21	0.51
5:F:355:LEU:N	5:F:355:LEU:CD1	2.72	0.51
5:F:950:GLU:N	5:F:950:GLU:OE2	2.43	0.51
5:F:958:SER:HB3	5:F:962:ARG:HA	1.91	0.51
5:F:1150:PHE:CD1	5:F:1150:PHE:C	2.83	0.51
5:F:1550:LEU:HD12	5:F:1604:ILE:HD13	1.87	0.51
6:J:404:ASP:C	6:J:406:PHE:H	2.13	0.51
1:M:817:ALA:HB2	1:M:832:LEU:HD13	1.92	0.51
1:N:830:SER:HB2	3:P:1238:ARG:CG	2.40	0.51
3:P:790:PHE:HB3	3:P:933:ILE:HG21	1.92	0.51
4:Q:33:ASP:OD2	4:Q:946:TRP:NE1	2.40	0.51
5:R:837:TYR:CG	5:R:918:PHE:HE2	2.25	0.51
5:R:1435:LYS:HZ3	5:R:1484:ARG:NH2	2.06	0.51
5:R:1550:LEU:HD12	5:R:1604:ILE:HD13	1.87	0.51
1:Z:215:TYR:HA	1:Z:218:ILE:HD12	1.92	0.51
4:E:1342:LEU:HA	4:E:1346:LYS:HD3	1.92	0.51
5:F:544:TYR:HA	5:F:547:PHE:HD2	1.76	0.51
5:F:809:LEU:HD13	5:F:1252:VAL:HG23	1.93	0.51
5:F:1251:ARG:HH22	5:F:1276:ASP:HB3	1.73	0.51
1:N:623:ILE:HG23	1:N:624:THR:HG23	1.90	0.51
1:N:767:ILE:HD12	1:N:768:VAL:H	1.74	0.51
2:O:1258:GLN:CD	2:O:1299:LYS:HE3	2.30	0.51
5:R:562:LEU:O	5:R:566:THR:OG1	2.23	0.51
5:R:1472:GLU:OE1	5:R:1531:THR:OG1	2.25	0.51
6:V:463:LYS:HE2	7:W:526:VAL:HG11	1.89	0.51
8:X:637:LEU:HD22	8:X:640:LEU:HB2	1.92	0.51
1:A:749:ASP:HB2	2:C:1274:LYS:HZ3	1.75	0.51
3:D:662:LEU:HB3	3:D:667:LEU:CD1	2.40	0.51
4:E:258:ILE:HG22	4:E:261:ILE:HD11	1.92	0.51
4:E:550:SER:OG	4:E:551:ASN:N	2.44	0.51
5:F:562:LEU:O	5:F:566:THR:OG1	2.23	0.51
5:F:841:PHE:HZ	5:F:922:LEU:HD22	1.75	0.51
5:F:1363:ILE:HD12	5:F:1364:TYR:N	2.25	0.51
5:F:1373:ASP:O	5:F:1376:THR:N	2.28	0.51
7:H:391:GLU:O	7:H:395:ALA:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:337:GLN:O	7:K:341:LYS:HD3	2.10	0.51
1:M:641:ILE:HG23	1:M:653:VAL:HG13	1.91	0.51
1:M:760:PHE:CZ	1:M:768:VAL:HG13	2.45	0.51
1:M:837:VAL:HG11	2:O:1142:ASP:HB2	1.93	0.51
3:P:662:LEU:HB3	3:P:667:LEU:CD1	2.40	0.51
3:P:753:PRO:HD2	3:P:756:LYS:CD	2.40	0.51
3:P:863:ILE:HD12	3:P:887:GLN:HG3	1.92	0.51
4:Q:1402:LYS:NZ	4:Q:1454:GLU:OE1	2.43	0.51
5:R:225:SER:HA	5:R:383:ASN:HD21	1.73	0.51
7:T:314:ASN:HB2	7:T:361:ARG:HH12	1.75	0.51
8:U:781:ASN:HD22	8:U:781:ASN:N	2.08	0.51
6:V:324:GLN:HA	6:V:327:LYS:CE	2.35	0.51
6:V:401:ILE:N	6:V:401:ILE:CD1	2.73	0.51
7:W:352:ILE:HG21	7:W:358:LEU:CD2	2.40	0.51
1:A:48:GLU:HA	7:K:514:THR:HG21	1.93	0.51
2:C:885:VAL:CG1	2:C:901:ILE:HG23	2.39	0.51
3:D:421:VAL:HG13	3:D:491:ARG:HB3	1.92	0.51
5:F:543:VAL:HA	5:F:546:TYR:HB2	1.91	0.51
5:F:1132:GLU:HG3	5:F:1135:CYS:HB2	1.93	0.51
5:F:1674:CYS:C	5:F:1676:LEU:H	2.13	0.51
6:G:387:TYR:HA	6:G:390:ILE:HB	1.92	0.51
8:L:671:LYS:O	8:L:675:GLN:HG2	2.10	0.51
3:P:150:LYS:HD3	3:P:153:VAL:CG2	2.39	0.51
3:P:1140:LYS:HZ2	1:Z:204:GLU:HA	0.71	0.51
4:Q:1342:LEU:HA	4:Q:1346:LYS:HD3	1.92	0.51
5:R:1664:ASN:HA	5:R:1667:VAL:HG12	1.92	0.51
6:V:389:ARG:HH11	6:V:389:ARG:CG	2.23	0.51
7:W:389:LYS:CB	7:W:393:ASP:CB	2.88	0.51
8:X:675:GLN:O	8:X:679:LEU:HD13	2.10	0.51
1:Z:482:LEU:O	1:Z:487:LEU:N	2.43	0.51
1:A:128:LEU:HB3	4:E:1260:TYR:CE2	2.40	0.51
3:D:484:GLN:HG3	3:D:564:THR:O	2.10	0.51
3:D:568:GLN:HE21	3:D:573:GLN:HG2	1.76	0.51
3:D:832:VAL:HG23	3:D:929:PHE:CE2	2.46	0.51
3:D:915:GLU:OE2	3:D:980:SER:OG	2.23	0.51
3:D:1018:LEU:HD13	1:N:247:GLY:H	1.76	0.51
4:E:508:ALA:HB1	4:E:512:GLU:HG2	1.93	0.51
4:E:1340:PHE:O	4:E:1344:PHE:HB2	2.11	0.51
5:F:1177:VAL:HA	5:F:1180:TYR:CB	2.40	0.51
5:F:1496:ASP:HA	5:F:1499:LEU:HG	1.93	0.51
5:F:1550:LEU:HD21	5:F:1552:PHE:HZ	1.66	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:795:LYS:CA	8:I:795:LYS:NZ	2.73	0.51
1:N:482:LEU:O	1:N:487:LEU:N	2.43	0.51
1:N:621:HIS:CE1	3:P:1467:SER:HB2	2.45	0.51
3:P:832:VAL:HG23	3:P:929:PHE:CE2	2.46	0.51
4:Q:681:LEU:HA	4:Q:690:LEU:CB	2.40	0.51
5:R:1150:PHE:C	5:R:1150:PHE:CD1	2.83	0.51
5:R:1177:VAL:HA	5:R:1180:TYR:CB	2.40	0.51
5:R:1363:ILE:HD12	5:R:1364:TYR:N	2.25	0.51
5:R:1496:ASP:HA	5:R:1499:LEU:HG	1.93	0.51
8:X:647:GLN:HA	8:X:650:GLU:HG2	1.93	0.51
1:Z:139:PHE:CD1	1:Z:139:PHE:C	2.84	0.51
1:Z:278:LEU:HD22	1:Z:437:TRP:HB2	1.92	0.51
1:Z:734:GLU:OE2	1:Z:738:GLN:NE2	2.43	0.51
3:D:863:ILE:HD12	3:D:887:GLN:HG3	1.92	0.51
4:E:86:ASP:OD1	4:E:86:ASP:N	2.44	0.51
5:F:1427:LEU:HD22	5:F:1466:LEU:HG	1.91	0.51
6:J:433:LYS:CA	7:K:499:GLY:CA	2.88	0.51
3:P:240:LEU:HB3	3:P:263:VAL:CG1	2.41	0.51
3:P:358:GLN:OE1	3:P:422:LYS:HG3	2.11	0.51
3:P:377:ILE:HB	3:P:393:ILE:HB	1.93	0.51
3:P:484:GLN:HG3	3:P:564:THR:O	2.10	0.51
3:P:828:ILE:CD1	3:P:925:GLN:HA	2.41	0.51
4:Q:114:TYR:HB2	4:Q:194:ILE:HD11	1.93	0.51
5:R:665:GLU:HB2	5:R:720:HIS:NE2	2.25	0.51
5:R:836:ILE:N	5:R:836:ILE:HD12	2.26	0.51
5:R:841:PHE:HZ	5:R:922:LEU:HD22	1.75	0.51
5:R:1132:GLU:HG3	5:R:1135:CYS:HB2	1.92	0.51
5:R:1435:LYS:HZ2	5:R:1484:ARG:HH22	1.57	0.51
6:S:431:GLN:CB	7:T:503:ASN:H	2.22	0.51
6:V:383:LYS:CE	8:X:756:ASN:HA	2.22	0.51
7:W:402:GLN:C	7:W:402:GLN:HE21	2.14	0.51
8:X:692:LYS:HD2	8:X:695:GLN:NE2	2.25	0.51
3:D:790:PHE:HB3	3:D:933:ILE:HG21	1.92	0.51
5:F:177:GLN:O	5:F:181:PHE:HB2	2.10	0.51
5:F:355:LEU:HD12	5:F:355:LEU:H	1.74	0.51
5:F:1012:ASN:O	8:I:787:GLU:CG	2.52	0.51
5:F:1300:LEU:HD23	5:F:1300:LEU:C	2.31	0.51
1:M:139:PHE:C	1:M:139:PHE:CD1	2.84	0.51
1:N:533:ARG:HH21	1:N:534:PHE:HB3	1.76	0.51
3:P:499:LEU:CB	3:P:502:SER:HB3	2.35	0.51
3:P:792:THR:HA	3:P:830:SER:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:969:SER:O	3:P:972:ASN:HB2	2.10	0.51
4:Q:508:ALA:HB1	4:Q:512:GLU:HG2	1.93	0.51
4:Q:550:SER:OG	4:Q:551:ASN:N	2.44	0.51
5:R:1360:LEU:N	5:R:1360:LEU:CD1	2.73	0.51
5:R:1370:LEU:O	5:R:1371:ILE:CB	2.58	0.51
7:T:511:GLU:CB	8:U:800:HIS:HE1	2.24	0.51
8:U:794:ILE:HA	8:U:797:LEU:HD13	1.93	0.51
6:V:432:LEU:HA	8:X:782:ILE:O	2.10	0.51
7:W:526:VAL:O	7:W:530:ASP:HB2	2.11	0.51
1:Z:639:ASP:OD1	1:Z:639:ASP:N	2.43	0.51
1:Z:767:ILE:HD12	1:Z:768:VAL:H	1.74	0.51
1:A:193:LEU:HB3	1:A:546:ARG:HH12	1.76	0.51
3:D:353:GLN:OE1	3:D:374:LYS:HB2	2.11	0.51
5:F:378:ALA:O	5:F:383:ASN:HA	2.11	0.51
5:F:690:GLU:HG3	8:I:722:LEU:CG	2.40	0.51
5:F:1376:THR:O	5:F:1376:THR:OG1	2.24	0.51
5:F:1529:ALA:HB1	5:F:1611:VAL:HG13	1.83	0.51
7:H:309:ARG:NE	7:H:353:TYR:OH	2.38	0.51
6:J:382:LYS:N	6:J:382:LYS:CE	2.73	0.51
7:K:308:LEU:HB3	7:K:355:PHE:CZ	2.46	0.51
7:K:313:TYR:CD1	7:K:349:PRO:HB3	2.45	0.51
1:M:626:GLN:O	1:M:630:ARG:HG2	2.11	0.51
1:N:139:PHE:CD1	1:N:139:PHE:C	2.84	0.51
5:R:154:GLN:HA	5:R:157:GLU:HG3	1.92	0.51
5:R:1037:ASN:N	5:R:1040:THR:CB	2.69	0.51
5:R:1532:ARG:NH1	5:R:1615:MET:SD	2.84	0.51
6:S:387:TYR:HA	6:S:390:ILE:HB	1.92	0.51
7:T:418:GLN:CD	8:U:718:THR:HG21	2.26	0.51
8:U:750:THR:O	8:U:753:GLU:HB3	2.11	0.51
7:W:308:LEU:HB3	7:W:355:PHE:CZ	2.46	0.51
7:W:336:ASP:HB3	7:W:340:GLU:OE1	2.11	0.51
7:W:508:LYS:NZ	1:Z:16:LYS:HB2	2.26	0.51
1:A:123:MET:O	6:J:414:SER:CB	2.59	0.51
1:A:626:GLN:O	1:A:630:ARG:HG2	2.11	0.51
3:D:377:ILE:HB	3:D:393:ILE:HB	1.93	0.51
3:D:970:ILE:HG23	3:D:975:ILE:CD1	2.40	0.51
4:E:1259:PHE:O	4:E:1259:PHE:HD1	1.94	0.51
5:F:334:GLN:NE2	5:F:859:LYS:HD2	2.26	0.51
5:F:914:ASP:HA	5:F:917:PHE:H	1.76	0.51
5:F:920:ILE:HB	5:F:924:ALA:CA	2.41	0.51
5:F:1370:LEU:O	5:F:1371:ILE:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1439:GLU:HA	5:F:1442:TRP:HB3	1.93	0.51
5:F:1532:ARG:NH1	5:F:1615:MET:SD	2.84	0.51
6:G:350:PHE:CZ	7:H:418:GLN:NE2	2.79	0.51
6:J:310:ARG:NE	6:J:314:TYR:OH	2.44	0.51
7:K:321:ALA:HB2	7:K:346:GLN:HA	1.92	0.51
1:M:137:ASP:OD2	4:Q:1385:LEU:HD12	2.11	0.51
1:N:254:LEU:O	1:N:258:LYS:HG2	2.10	0.51
1:N:621:HIS:CE1	3:P:1468:TYR:N	2.77	0.51
3:P:586:LEU:HD21	3:P:592:TYR:HD1	1.76	0.51
4:Q:141:LEU:HA	4:Q:144:ILE:HD12	1.92	0.51
4:Q:725:LEU:HD23	4:Q:1167:LEU:HA	1.93	0.51
5:R:332:VAL:CG1	5:R:335:ASP:HA	2.40	0.51
5:R:334:GLN:NE2	5:R:859:LYS:HD2	2.26	0.51
5:R:616:VAL:HG12	5:R:656:VAL:HG21	1.93	0.51
6:V:390:ILE:CG2	6:V:394:ILE:HG23	2.40	0.51
7:W:337:GLN:O	7:W:341:LYS:HD3	2.10	0.51
1:A:599:ARG:NH1	1:A:605:GLU:OE2	2.44	0.50
1:A:760:PHE:CZ	1:A:768:VAL:HG13	2.45	0.50
2:C:317:LEU:HB2	2:C:318:ILE:HD12	1.92	0.50
4:E:1402:LYS:NZ	4:E:1454:GLU:OE1	2.43	0.50
5:F:332:VAL:CG1	5:F:335:ASP:HA	2.40	0.50
5:F:838:LYS:HA	5:F:841:PHE:HB2	1.92	0.50
6:J:437:ALA:O	6:J:439:ILE:N	2.44	0.50
6:J:462:GLN:HE22	8:L:812:THR:HG23	1.76	0.50
1:N:140:ILE:HA	1:N:143:ASN:HB3	1.93	0.50
4:Q:1017:LEU:O	4:Q:1021:THR:OG1	2.26	0.50
5:R:452:LYS:HE3	5:R:456:ALA:HB2	1.92	0.50
5:R:544:TYR:HA	5:R:547:PHE:HD2	1.76	0.50
5:R:914:ASP:HA	5:R:917:PHE:H	1.76	0.50
5:R:1392:ILE:CB	5:R:1405:PHE:CE2	2.93	0.50
8:U:643:LYS:O	8:U:647:GLN:NE2	2.44	0.50
8:U:742:GLN:HB3	8:U:746:LYS:HZ2	1.75	0.50
6:V:437:ALA:O	6:V:439:ILE:N	2.44	0.50
6:V:462:GLN:HE22	8:X:812:THR:HG23	1.76	0.50
8:X:692:LYS:HD2	8:X:695:GLN:HE21	1.75	0.50
8:X:696:SER:O	8:X:699:TYR:HB2	2.11	0.50
1:Z:12:SER:HG	1:Z:15:SER:HG	1.44	0.50
1:A:837:VAL:HG11	2:C:1142:ASP:HB2	1.93	0.50
2:C:970:PHE:CE2	2:C:974:ILE:HD11	2.46	0.50
3:D:977:LYS:HD3	1:N:316:ALA:N	2.19	0.50
4:E:1017:LEU:O	4:E:1021:THR:OG1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:1022:TYR:CD2	4:E:1026:THR:HG22	2.38	0.50
5:F:665:GLU:HB2	5:F:720:HIS:NE2	2.25	0.50
5:F:914:ASP:CA	5:F:917:PHE:CB	2.85	0.50
7:H:397:ARG:NH1	8:I:701:GLU:OE1	2.43	0.50
8:I:643:LYS:O	8:I:647:GLN:NE2	2.44	0.50
7:K:365:GLN:HA	7:K:368:ASN:HD22	1.76	0.50
7:K:536:LYS:HA	7:K:539:ASN:HB2	1.94	0.50
1:M:516:PHE:HZ	1:M:532:ILE:HG22	1.76	0.50
4:Q:477:LEU:HA	4:Q:499:ILE:HA	1.93	0.50
4:Q:936:LEU:O	4:Q:940:SER:OG	2.26	0.50
5:R:812:CYS:SG	5:R:813:GLU:N	2.84	0.50
5:R:838:LYS:O	5:R:842:ASN:HB2	2.12	0.50
5:R:1147:PHE:CD1	5:R:1147:PHE:C	2.85	0.50
5:R:1469:ARG:HH22	5:R:1530:GLU:HB3	1.76	0.50
5:R:1674:CYS:C	5:R:1676:LEU:H	2.13	0.50
6:V:433:LYS:CA	7:W:499:GLY:CA	2.88	0.50
7:W:375:ILE:O	7:W:379:ILE:HG22	2.11	0.50
7:W:522:TYR:C	7:W:522:TYR:CD1	2.85	0.50
8:X:692:LYS:O	8:X:695:GLN:HG3	2.11	0.50
3:D:518:GLU:HA	3:D:536:ILE:CD1	2.41	0.50
3:D:828:ILE:CD1	3:D:925:GLN:HA	2.41	0.50
5:F:713:PHE:HA	5:F:716:LEU:HB2	1.93	0.50
5:F:812:CYS:SG	5:F:813:GLU:N	2.84	0.50
5:F:836:ILE:N	5:F:836:ILE:HD12	2.26	0.50
7:K:389:LYS:CA	7:K:393:ASP:CB	2.39	0.50
1:M:128:LEU:CD1	4:Q:1260:TYR:OH	2.44	0.50
1:M:414:LEU:HD21	1:M:438:MET:HB2	1.94	0.50
1:N:116:LYS:HZ3	1:N:116:LYS:CB	2.11	0.50
1:N:242:LEU:O	1:N:250:ASN:CB	2.59	0.50
2:O:970:PHE:CE2	2:O:974:ILE:HD11	2.46	0.50
3:P:1494:ASN:O	5:R:1471:LYS:CE	2.60	0.50
5:R:472:ILE:HG23	5:R:474:LEU:H	1.76	0.50
5:R:713:PHE:HA	5:R:716:LEU:HB2	1.93	0.50
5:R:1674:CYS:C	5:R:1676:LEU:N	2.65	0.50
7:T:397:ARG:NH1	8:U:701:GLU:OE1	2.43	0.50
6:V:281:ASP:O	6:V:284:ILE:HB	2.11	0.50
7:W:387:GLN:NE2	7:W:387:GLN:CA	2.73	0.50
8:X:637:LEU:CD2	8:X:640:LEU:H	2.24	0.50
8:X:667:GLN:NE2	8:X:668:VAL:HG23	2.26	0.50
1:A:414:LEU:HD21	1:A:438:MET:HB2	1.94	0.50
3:D:873:SER:CB	3:D:877:VAL:HB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:616:VAL:HG12	5:F:656:VAL:HG21	1.92	0.50
5:F:681:LYS:HE3	5:F:685:LEU:HA	1.93	0.50
5:F:1502:THR:H	5:F:1510:ASP:HB2	1.77	0.50
5:F:1618:SER:HB2	1:Z:634:ASP:O	2.10	0.50
8:I:794:ILE:HA	8:I:797:LEU:HD13	1.93	0.50
6:J:281:ASP:O	6:J:284:ILE:HB	2.11	0.50
8:L:696:SER:O	8:L:699:TYR:HB2	2.11	0.50
1:M:764:ASP:O	1:M:768:VAL:HG23	2.12	0.50
1:N:820:ILE:O	1:N:821:GLN:C	2.49	0.50
4:Q:1259:PHE:O	4:Q:1259:PHE:HD1	1.94	0.50
5:R:920:ILE:HB	5:R:924:ALA:CA	2.41	0.50
6:V:429:LEU:HA	6:V:434:THR:N	2.24	0.50
7:W:289:GLN:O	7:W:292:VAL:HB	2.11	0.50
1:A:818:GLY:O	1:A:821:GLN:NE2	2.40	0.50
3:D:175:ILE:CD1	3:D:642:LEU:HB2	2.36	0.50
4:E:757:LYS:HA	5:F:1195:PHE:HD2	1.77	0.50
7:K:389:LYS:CB	7:K:393:ASP:CB	2.87	0.50
1:M:787:HIS:HE1	1:M:838:SER:O	1.90	0.50
1:N:59:LYS:CB	8:U:814:LEU:HD23	2.39	0.50
1:N:215:TYR:HA	1:N:218:ILE:HD12	1.92	0.50
3:P:518:GLU:HA	3:P:536:ILE:CD1	2.41	0.50
5:R:159:LYS:CE	5:R:363:ASP:CA	2.88	0.50
6:V:277:ILE:CD1	6:V:280:LEU:HD23	2.42	0.50
1:Z:136:PHE:C	1:Z:136:PHE:CD1	2.85	0.50
1:Z:576:LEU:HA	1:Z:579:LEU:HB2	1.94	0.50
1:A:516:PHE:HZ	1:A:532:ILE:HG22	1.76	0.50
3:D:507:LEU:HA	3:D:512:LYS:O	2.12	0.50
8:I:742:GLN:HB3	8:I:746:LYS:HZ2	1.76	0.50
6:J:309:PRO:O	6:J:312:VAL:HB	2.12	0.50
7:K:402:GLN:HE21	7:K:402:GLN:C	2.14	0.50
7:K:504:ASP:O	7:K:507:ASN:N	2.44	0.50
8:L:647:GLN:HA	8:L:650:GLU:HG2	1.93	0.50
1:N:55:GLN:N	7:T:522:TYR:CB	2.75	0.50
3:P:412:ILE:HG22	3:P:476:VAL:HB	1.93	0.50
5:R:378:ALA:O	5:R:383:ASN:HA	2.11	0.50
5:R:555:TRP:HA	5:R:558:ILE:HG12	1.94	0.50
5:R:1502:THR:H	5:R:1510:ASP:HB2	1.76	0.50
6:V:390:ILE:N	6:V:390:ILE:HD12	2.26	0.50
8:X:638:ASP:HA	8:X:641:VAL:CG2	2.42	0.50
8:X:650:GLU:HG3	8:X:651:SER:N	2.27	0.50
1:A:137:ASP:OD2	4:E:1385:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:810:MET:N	4:E:810:MET:SD	2.84	0.50
5:F:452:LYS:HE3	5:F:456:ALA:HB2	1.92	0.50
5:F:555:TRP:HA	5:F:558:ILE:HG12	1.94	0.50
5:F:1167:LYS:HD3	5:F:1167:LYS:C	2.30	0.50
5:F:1370:LEU:O	5:F:1371:ILE:HB	2.12	0.50
5:F:1674:CYS:C	5:F:1676:LEU:N	2.65	0.50
7:K:336:ASP:HB3	7:K:340:GLU:OE1	2.11	0.50
8:L:637:LEU:CD2	8:L:640:LEU:H	2.24	0.50
8:L:650:GLU:HG3	8:L:651:SER:N	2.27	0.50
1:M:413:LYS:HD2	1:M:425:ILE:HD11	1.94	0.50
1:N:771:ILE:HG22	1:N:772:PRO:HD3	1.94	0.50
3:P:375:SER:HB3	3:P:420:ILE:HG13	1.93	0.50
3:P:568:GLN:HE21	3:P:573:GLN:HG2	1.76	0.50
3:P:578:VAL:O	3:P:596:ALA:HA	2.12	0.50
3:P:586:LEU:HD11	3:P:592:TYR:HA	1.94	0.50
4:Q:411:PHE:O	4:Q:415:PHE:HB3	2.11	0.50
4:Q:810:MET:SD	4:Q:810:MET:N	2.84	0.50
5:R:1014:SER:N	8:U:788:ASP:O	2.41	0.50
6:S:350:PHE:CZ	7:T:418:GLN:NE2	2.79	0.50
8:U:740:LYS:O	8:U:743:GLN:NE2	2.45	0.50
7:W:310:ALA:HB3	7:W:352:ILE:CB	2.40	0.50
1:A:224:ASN:OD1	1:A:607:ARG:NH2	2.41	0.50
3:D:358:GLN:OE1	3:D:422:LYS:HG3	2.11	0.50
3:D:586:LEU:HD21	3:D:592:TYR:HD1	1.75	0.50
3:D:887:GLN:OE1	3:D:887:GLN:N	2.43	0.50
3:D:1137:ASP:N	1:N:205:ASN:HA	2.27	0.50
4:E:725:LEU:HD23	4:E:1167:LEU:HA	1.93	0.50
4:E:1275:GLU:HA	4:E:1278:ILE:HD12	1.94	0.50
5:F:838:LYS:O	5:F:842:ASN:HB2	2.12	0.50
8:I:740:LYS:O	8:I:743:GLN:NE2	2.45	0.50
6:J:433:LYS:CA	7:K:499:GLY:HA3	2.42	0.50
7:K:355:PHE:CD1	7:K:358:LEU:HD12	2.45	0.50
1:M:54:PHE:HA	1:M:57:ARG:HD3	1.94	0.50
1:M:193:LEU:HB3	1:M:546:ARG:HH12	1.76	0.50
1:M:739:MET:SD	1:M:778:THR:OG1	2.63	0.50
1:N:46:ILE:CB	6:S:327:LYS:HZ2	2.23	0.50
1:N:86:PHE:CD1	1:N:86:PHE:N	2.79	0.50
1:N:576:LEU:HA	1:N:579:LEU:HB2	1.94	0.50
1:N:771:ILE:HG22	1:N:772:PRO:HD2	1.94	0.50
3:P:631:GLN:NE2	3:P:656:ASP:OD2	2.44	0.50
4:Q:1022:TYR:CZ	4:Q:1026:THR:CG2	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1275:GLU:HA	4:Q:1278:ILE:HD12	1.94	0.50
4:Q:1429:HIS:HD2	4:Q:1474:LEU:HD22	1.77	0.50
5:R:50:GLN:NE2	5:R:57:GLU:OE2	2.45	0.50
5:R:1300:LEU:C	5:R:1300:LEU:HD23	2.32	0.50
5:R:1477:ASP:O	5:R:1481:LYS:N	2.45	0.50
6:S:427:GLU:CG	8:U:779:THR:HG21	2.41	0.50
7:T:443:LEU:HA	7:T:446:ARG:HB2	1.94	0.50
7:W:456:THR:C	7:W:458:GLU:N	2.64	0.50
1:Z:223:ASN:ND2	1:Z:555:GLU:OE2	2.35	0.50
1:Z:440:LEU:HA	1:Z:443:ILE:HG12	1.94	0.50
5:F:343:ASP:OD2	5:F:702:LYS:NZ	2.38	0.50
5:F:1088:ARG:NH1	5:F:1088:ARG:CG	2.73	0.50
5:F:1469:ARG:HH22	5:F:1530:GLU:HB3	1.76	0.50
6:G:427:GLU:CG	8:I:779:THR:HG21	2.41	0.50
7:H:317:ASN:HA	7:H:346:GLN:HB3	1.94	0.50
7:H:359:ASN:HA	7:H:362:ASN:HD22	1.75	0.50
7:H:412:ILE:HG22	7:H:415:LEU:HD23	1.94	0.50
8:I:750:THR:O	8:I:753:GLU:HB3	2.11	0.50
6:J:400:GLY:HA2	6:J:403:THR:HB	1.93	0.50
7:K:375:ILE:O	7:K:379:ILE:HG22	2.11	0.50
7:K:429:LEU:HB2	8:L:741:ARG:CZ	2.42	0.50
8:L:637:LEU:HD22	8:L:640:LEU:HB2	1.92	0.50
1:M:814:MET:HB2	1:M:836:ASP:OD2	2.12	0.50
1:N:149:ALA:CB	5:R:1672:MET:CB	2.84	0.50
1:N:275:LYS:NZ	1:N:441:MET:SD	2.81	0.50
4:Q:1340:PHE:O	4:Q:1344:PHE:HB2	2.11	0.50
5:R:681:LYS:HE3	5:R:685:LEU:HA	1.93	0.50
5:R:684:SER:HB3	5:R:695:ALA:HB2	1.94	0.50
5:R:809:LEU:HD13	5:R:1252:VAL:HG23	1.92	0.50
5:R:900:LEU:HD13	5:R:904:TYR:CE1	2.47	0.50
5:R:1439:GLU:HA	5:R:1442:TRP:HB3	1.93	0.50
1:Z:253:LEU:N	1:Z:253:LEU:CD2	2.74	0.50
1:Z:494:TYR:O	1:Z:497:THR:OG1	2.26	0.50
1:Z:771:ILE:HG22	1:Z:772:PRO:HD3	1.94	0.50
1:A:558:VAL:HG22	1:A:611:LEU:HD21	1.93	0.49
1:A:814:MET:HB2	1:A:836:ASP:OD2	2.12	0.49
4:E:185:LEU:HD23	4:E:188:ILE:HD11	1.94	0.49
4:E:200:LEU:HD13	4:E:271:LEU:HD22	1.94	0.49
4:E:260:ARG:HG2	4:E:260:ARG:NH1	2.12	0.49
4:E:411:PHE:O	4:E:415:PHE:HB3	2.11	0.49
5:F:668:ARG:O	5:F:672:TRP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:900:LEU:HD22	5:F:904:TYR:CZ	2.47	0.49
5:F:968:ILE:CG2	7:H:392:LEU:HD11	2.37	0.49
5:F:1477:ASP:O	5:F:1481:LYS:N	2.45	0.49
7:H:522:TYR:CB	1:Z:55:GLN:N	2.75	0.49
1:M:123:MET:O	6:V:414:SER:CB	2.60	0.49
1:M:451:ASP:O	1:M:456:ARG:NE	2.38	0.49
1:N:149:ALA:HB1	5:R:1671:VAL:HG13	1.94	0.49
1:N:761:SER:C	1:N:763:LEU:H	2.15	0.49
3:P:119:PRO:HB3	3:P:739:THR:CG2	2.42	0.49
3:P:653:ARG:HG3	3:P:657:GLU:HB2	1.94	0.49
5:R:320:GLU:OE1	5:R:351:HIS:HE1	1.92	0.49
7:T:418:GLN:HE22	8:U:718:THR:HG23	1.61	0.49
1:Z:245:ALA:HA	1:Z:250:ASN:CB	2.42	0.49
3:D:449:ASN:HB3	3:D:463:GLU:CG	2.41	0.49
3:D:499:LEU:CB	3:D:502:SER:HB3	2.35	0.49
7:H:418:GLN:CD	8:I:718:THR:HG21	2.26	0.49
7:H:443:LEU:HA	7:H:446:ARG:HB2	1.94	0.49
8:L:692:LYS:O	8:L:695:GLN:HG3	2.11	0.49
1:M:558:VAL:HG22	1:M:611:LEU:HD21	1.93	0.49
1:N:771:ILE:CB	1:N:772:PRO:HD2	2.42	0.49
3:P:442:GLY:HA2	3:P:488:GLN:HG2	1.94	0.49
3:P:836:LYS:HB2	3:P:914:TYR:CD1	2.47	0.49
5:R:334:GLN:NE2	5:R:859:LYS:CE	2.68	0.49
5:R:900:LEU:HD22	5:R:904:TYR:CZ	2.47	0.49
5:R:1139:ILE:HG12	5:R:1291:SER:CB	2.42	0.49
5:R:1370:LEU:O	5:R:1371:ILE:HB	2.12	0.49
8:U:795:LYS:HE3	8:U:799:SER:HB3	1.94	0.49
6:V:405:LEU:CD1	7:W:469:ARG:C	2.65	0.49
1:Z:533:ARG:HH21	1:Z:534:PHE:HB3	1.76	0.49
1:A:505:HIS:HE1	1:A:541:TYR:OH	1.96	0.49
1:A:764:ASP:O	1:A:768:VAL:HG23	2.12	0.49
3:D:375:SER:HB3	3:D:420:ILE:HG13	1.93	0.49
3:D:412:ILE:HG22	3:D:476:VAL:HB	1.93	0.49
4:E:822:ASN:O	4:E:826:SER:HB3	2.13	0.49
5:F:684:SER:HB3	5:F:695:ALA:HB2	1.94	0.49
5:F:959:LEU:CB	6:G:325:TYR:HB2	2.42	0.49
7:K:310:ALA:CB	7:K:352:ILE:HB	2.38	0.49
7:K:430:GLY:C	7:K:432:ALA:N	2.65	0.49
1:M:599:ARG:NH1	1:M:605:GLU:OE2	2.44	0.49
1:N:84:ASP:CB	6:S:449:LEU:HD23	2.42	0.49
3:P:353:GLN:OE1	3:P:374:LYS:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:449:ASN:HB3	3:P:463:GLU:CG	2.41	0.49
3:P:491:ARG:CB	3:P:520:THR:HB	2.42	0.49
3:P:745:ILE:HG13	3:P:746:THR:H	1.77	0.49
5:R:355:LEU:N	5:R:355:LEU:CD1	2.72	0.49
5:R:1510:ASP:OD1	5:R:1510:ASP:N	2.42	0.49
6:V:310:ARG:NE	6:V:314:TYR:OH	2.44	0.49
1:Z:771:ILE:CB	1:Z:772:PRO:HD2	2.42	0.49
1:Z:820:ILE:O	1:Z:821:GLN:C	2.49	0.49
1:A:684:ASN:HB3	1:A:687:LEU:HB2	1.93	0.49
3:D:836:LYS:HB2	3:D:914:TYR:CD1	2.47	0.49
4:E:477:LEU:HA	4:E:499:ILE:HA	1.93	0.49
4:E:1294:ASP:O	4:E:1298:ASN:N	2.42	0.49
4:E:1429:HIS:HD2	4:E:1474:LEU:HD22	1.77	0.49
5:F:159:LYS:CE	5:F:363:ASP:CA	2.88	0.49
5:F:669:THR:HA	5:F:672:TRP:HB2	1.94	0.49
5:F:913:TYR:O	5:F:917:PHE:N	2.46	0.49
5:F:1667:VAL:HA	5:F:1670:ILE:HG22	1.95	0.49
7:H:344:SER:O	7:H:347:THR:OG1	2.31	0.49
6:J:277:ILE:CD1	6:J:280:LEU:HD23	2.42	0.49
6:J:364:ILE:C	7:K:424:ASN:HD22	2.15	0.49
7:K:289:GLN:O	7:K:292:VAL:HB	2.12	0.49
1:N:278:LEU:HD22	1:N:437:TRP:HB2	1.92	0.49
1:N:440:LEU:HA	1:N:443:ILE:HG12	1.94	0.49
3:P:449:ASN:ND2	3:P:461:ARG:HB2	2.27	0.49
4:Q:878:PHE:HZ	4:Q:917:PRO:HB3	1.77	0.49
4:Q:989:ASP:O	4:Q:992:SER:N	2.36	0.49
4:Q:1484:LYS:HZ2	4:Q:1486:GLU:HB2	1.77	0.49
5:R:973:ASP:O	5:R:975:SER:N	2.44	0.49
5:R:1373:ASP:O	5:R:1376:THR:N	2.28	0.49
7:W:365:GLN:HA	7:W:368:ASN:HD22	1.77	0.49
7:W:429:LEU:HB2	8:X:741:ARG:CZ	2.42	0.49
8:X:643:LYS:HG3	8:X:647:GLN:NE2	2.22	0.49
3:D:170:LYS:NZ	3:D:212:GLN:O	2.37	0.49
3:D:653:ARG:HG3	3:D:657:GLU:HB2	1.93	0.49
4:E:186:LYS:HE2	4:E:834:ILE:HG23	1.95	0.49
5:F:50:GLN:NE2	5:F:57:GLU:OE2	2.45	0.49
5:F:472:ILE:HG23	5:F:474:LEU:H	1.76	0.49
5:F:900:LEU:HD13	5:F:904:TYR:CE1	2.47	0.49
5:F:1641:PHE:HA	5:F:1644:ASP:HB2	1.95	0.49
6:G:431:GLN:CB	7:H:503:ASN:H	2.22	0.49
6:G:455:GLU:HB2	1:Z:32:LEU:CD2	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:816:LYS:HE2	8:I:816:LYS:N	2.28	0.49
6:J:388:CYS:SG	6:J:391:LEU:HB2	2.52	0.49
8:L:667:GLN:NE2	8:L:668:VAL:HG23	2.26	0.49
1:M:205:ASN:OD1	1:M:208:LEU:HB2	2.12	0.49
3:P:507:LEU:HA	3:P:512:LYS:O	2.12	0.49
3:P:932:ILE:CG2	3:P:933:ILE:HG13	2.41	0.49
4:Q:27:ALA:O	4:Q:119:ASN:ND2	2.45	0.49
4:Q:186:LYS:HE2	4:Q:834:ILE:HG23	1.95	0.49
5:R:161:GLN:HA	5:R:164:LYS:HG3	1.95	0.49
5:R:1529:ALA:HB2	5:R:1611:VAL:CG2	2.42	0.49
5:R:1529:ALA:HB2	5:R:1611:VAL:HG22	1.95	0.49
7:T:309:ARG:NH2	7:T:334:GLU:OE2	2.45	0.49
6:V:309:PRO:O	6:V:312:VAL:HB	2.12	0.49
7:W:313:TYR:HA	7:W:349:PRO:CB	2.40	0.49
1:Z:140:ILE:HA	1:Z:143:ASN:HB3	1.93	0.49
1:A:32:LEU:C	1:A:32:LEU:HD23	2.33	0.49
1:A:54:PHE:HA	1:A:57:ARG:HD3	1.94	0.49
1:A:270:ILE:HD13	1:A:486:GLY:HA3	1.95	0.49
4:E:936:LEU:O	4:E:940:SER:OG	2.26	0.49
4:E:1460:LEU:O	4:E:1463:SER:OG	2.31	0.49
5:F:1092:THR:O	5:F:1092:THR:OG1	2.23	0.49
5:F:1543:LEU:O	5:F:1547:ILE:HG22	2.13	0.49
5:F:1671:VAL:HG13	1:Z:149:ALA:HB1	1.94	0.49
8:I:795:LYS:HE3	8:I:799:SER:HB3	1.94	0.49
6:J:377:ILE:HG22	6:J:378:HIS:CD2	2.47	0.49
6:J:391:LEU:HA	6:J:394:ILE:HG12	1.95	0.49
3:P:873:SER:CB	3:P:877:VAL:HB	2.42	0.49
4:Q:1063:ASP:N	4:Q:1063:ASP:OD1	2.45	0.49
5:R:959:LEU:CB	6:S:325:TYR:HB2	2.43	0.49
5:R:1048:LEU:O	5:R:1051:SER:OG	2.26	0.49
8:U:818:ILE:CD1	8:U:818:ILE:N	2.72	0.49
6:V:364:ILE:C	7:W:424:ASN:HD22	2.15	0.49
6:V:364:ILE:C	7:W:424:ASN:ND2	2.65	0.49
6:V:433:LYS:CA	7:W:499:GLY:HA3	2.42	0.49
1:Z:211:LYS:HZ3	1:Z:246:ASN:ND2	2.06	0.49
1:Z:766:ASN:OD1	1:Z:766:ASN:N	2.39	0.49
1:A:787:HIS:HE1	1:A:838:SER:O	1.90	0.49
3:D:442:GLY:HA2	3:D:488:GLN:HG2	1.95	0.49
4:E:114:TYR:HB2	4:E:194:ILE:HD11	1.93	0.49
4:E:995:LEU:HA	4:E:998:LEU:HB2	1.95	0.49
4:E:1259:PHE:C	4:E:1259:PHE:HD1	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:973:ASP:O	5:F:975:SER:N	2.44	0.49
5:F:1139:ILE:HG12	5:F:1291:SER:CB	2.42	0.49
5:F:1373:ASP:O	5:F:1375:GLY:N	2.45	0.49
5:F:1529:ALA:HB2	5:F:1611:VAL:CG2	2.42	0.49
6:G:449:LEU:HD23	1:Z:84:ASP:CB	2.42	0.49
6:G:449:LEU:HD23	1:Z:84:ASP:OD1	2.13	0.49
6:G:470:LEU:CB	7:H:538:LYS:HZ1	2.06	0.49
8:I:822:LYS:CE	8:I:822:LYS:CA	2.84	0.49
6:J:350:PHE:HD1	7:K:419:LEU:HD12	1.73	0.49
6:J:370:ASP:HA	6:J:373:PHE:CB	2.40	0.49
6:J:388:CYS:HB2	7:K:455:LYS:HD2	0.64	0.49
1:N:753:ALA:HB2	1:N:815:ILE:CB	2.43	0.49
3:P:421:VAL:HG21	3:P:490:LYS:CB	2.41	0.49
4:Q:258:ILE:O	4:Q:260:ARG:N	2.45	0.49
4:Q:1259:PHE:C	4:Q:1259:PHE:HD1	2.16	0.49
5:R:288:TRP:O	5:R:295:ARG:NH2	2.45	0.49
5:R:1249:ILE:HA	5:R:1252:VAL:HG12	1.95	0.49
6:V:390:ILE:HG22	6:V:394:ILE:HG23	1.92	0.49
1:Z:771:ILE:CG2	1:Z:772:PRO:HD2	2.42	0.49
1:A:342:ARG:NE	1:A:434:ASP:OD1	2.41	0.49
3:D:631:GLN:NE2	3:D:656:ASP:OD2	2.44	0.49
3:D:753:PRO:HD2	3:D:756:LYS:CD	2.40	0.49
4:E:27:ALA:O	4:E:119:ASN:ND2	2.45	0.49
5:F:989:SER:O	5:F:989:SER:OG	2.26	0.49
7:K:315:LYS:HA	7:K:347:THR:CA	2.38	0.49
1:M:270:ILE:HD13	1:M:486:GLY:HA3	1.95	0.49
1:M:315:LYS:HD2	1:M:319:SER:OG	2.13	0.49
1:N:23:ASN:C	1:N:25:LEU:N	2.64	0.49
1:N:136:PHE:CD1	1:N:136:PHE:C	2.85	0.49
1:N:771:ILE:CG2	1:N:772:PRO:HD2	2.42	0.49
3:P:539:SER:HA	3:P:545:GLN:HE22	1.78	0.49
3:P:1020:ASN:HA	1:Z:249:ARG:C	2.33	0.49
4:Q:757:LYS:HA	5:R:1195:PHE:HD2	1.76	0.49
5:R:923:VAL:HG23	5:R:925:HIS:H	1.77	0.49
5:R:927:GLY:HA3	5:R:978:ILE:HD11	1.95	0.49
5:R:971:SER:OG	5:R:972:VAL:N	2.46	0.49
5:R:1067:ASN:OD1	5:R:1067:ASN:N	2.42	0.49
5:R:1304:HIS:O	5:R:1304:HIS:CG	2.66	0.49
7:T:344:SER:O	7:T:347:THR:OG1	2.31	0.49
1:Z:753:ALA:HB2	1:Z:815:ILE:CB	2.43	0.49
1:A:621:HIS:ND1	1:A:625:GLU:OE2	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:491:ARG:CB	3:D:520:THR:HB	2.42	0.49
3:D:578:VAL:O	3:D:596:ALA:HA	2.12	0.49
3:D:932:ILE:CG2	3:D:933:ILE:HG13	2.41	0.49
3:D:1018:LEU:HD22	1:N:247:GLY:CA	2.43	0.49
3:D:1494:ASN:O	5:F:1471:LYS:CE	2.60	0.49
5:F:866:GLN:HA	5:F:869:VAL:HG12	1.95	0.49
5:F:1628:GLY:O	5:F:1632:THR:HB	2.13	0.49
8:I:822:LYS:NZ	8:I:822:LYS:CA	2.73	0.49
6:J:370:ASP:HA	6:J:373:PHE:CG	2.48	0.49
7:K:456:THR:C	7:K:458:GLU:N	2.64	0.49
8:L:774:ASN:HA	8:L:777:ASN:HB2	1.95	0.49
1:M:625:GLU:OE1	1:M:629:ARG:NH2	2.33	0.49
1:N:25:LEU:HD23	1:N:25:LEU:C	2.33	0.49
3:P:976:THR:CB	3:P:981:ILE:CB	2.91	0.49
4:Q:86:ASP:OD1	4:Q:86:ASP:N	2.44	0.49
4:Q:185:LEU:HD23	4:Q:188:ILE:HD11	1.94	0.49
4:Q:200:LEU:HD13	4:Q:271:LEU:HD22	1.94	0.49
4:Q:995:LEU:HA	4:Q:998:LEU:HB2	1.95	0.49
5:R:902:LYS:HE2	7:T:414:LYS:HD2	0.67	0.49
5:R:1094:GLY:O	5:R:1098:SER:N	2.42	0.49
5:R:1219:VAL:O	5:R:1221:LEU:N	2.44	0.49
5:R:1373:ASP:O	5:R:1375:GLY:N	2.45	0.49
5:R:1628:GLY:O	5:R:1632:THR:HB	2.13	0.49
6:V:370:ASP:HA	6:V:373:PHE:CG	2.48	0.49
1:A:205:ASN:OD1	1:A:208:LEU:HB2	2.12	0.49
3:D:119:PRO:HB3	3:D:739:THR:CG2	2.42	0.49
3:D:896:MET:O	3:D:900:VAL:HG23	2.13	0.49
4:E:994:ILE:HG13	4:E:995:LEU:HD12	1.95	0.49
5:F:835:LYS:HD3	5:F:835:LYS:N	2.28	0.49
5:F:914:ASP:HA	5:F:917:PHE:HB2	1.93	0.49
5:F:1357:ALA:HA	5:F:1381:LEU:CB	2.42	0.49
7:H:315:LYS:HA	7:H:347:THR:HA	1.95	0.49
6:J:388:CYS:HA	6:J:391:LEU:CG	2.43	0.49
1:M:571:LEU:O	1:M:574:GLU:HG3	2.13	0.49
1:N:758:GLN:HE21	3:P:1377:ASN:HD21	1.59	0.49
3:P:401:ILE:CG2	3:P:462:LEU:HB3	2.30	0.49
3:P:503:GLU:OE1	3:P:503:GLU:N	2.45	0.49
3:P:585:ILE:HG12	3:P:591:LYS:HB2	1.94	0.49
4:Q:1598:LEU:O	4:Q:1602:LEU:HB2	2.13	0.49
5:R:665:GLU:HA	5:R:668:ARG:HG2	1.94	0.49
5:R:668:ARG:O	5:R:672:TRP:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:835:LYS:HD3	5:R:835:LYS:N	2.27	0.49
5:R:913:TYR:O	5:R:917:PHE:N	2.46	0.49
5:R:938:ALA:O	5:R:941:SER:OG	2.22	0.49
5:R:1058:ALA:C	5:R:1060:LEU:H	2.16	0.49
5:R:1269:GLU:O	5:R:1273:LYS:HB3	2.13	0.49
5:R:1641:PHE:HA	5:R:1644:ASP:HB2	1.95	0.49
8:U:750:THR:O	8:U:754:ASN:ND2	2.46	0.49
1:A:642:LEU:HA	1:A:645:GLN:CD	2.33	0.48
3:D:539:SER:HA	3:D:545:GLN:HE22	1.78	0.48
5:F:288:TRP:O	5:F:295:ARG:NH2	2.45	0.48
5:F:1465:GLN:HG3	5:F:1527:ARG:NH2	2.28	0.48
6:G:436:LEU:HD13	7:H:503:ASN:CB	2.43	0.48
1:M:684:ASN:HB3	1:M:687:LEU:HB2	1.93	0.48
1:M:723:ILE:HG23	1:M:735:THR:HG23	1.95	0.48
1:N:305:ILE:HG21	1:N:336:LEU:HA	1.94	0.48
4:Q:476:ASP:N	4:Q:476:ASP:OD1	2.45	0.48
5:R:1370:LEU:C	5:R:1371:ILE:HG12	2.34	0.48
6:V:380:TYR:CD1	6:V:380:TYR:O	2.66	0.48
1:Z:767:ILE:HD12	1:Z:768:VAL:HG23	1.95	0.48
1:A:413:LYS:HD2	1:A:425:ILE:HD11	1.94	0.48
1:A:571:LEU:O	1:A:574:GLU:HG3	2.13	0.48
3:D:1238:ARG:CA	1:Z:830:SER:CB	2.81	0.48
3:D:1468:TYR:N	1:Z:621:HIS:CE1	2.77	0.48
5:F:665:GLU:HA	5:F:668:ARG:HG2	1.94	0.48
5:F:1304:HIS:CG	5:F:1304:HIS:O	2.66	0.48
5:F:1472:GLU:OE1	5:F:1531:THR:OG1	2.25	0.48
6:G:395:GLU:HA	6:G:398:VAL:HB	1.95	0.48
7:H:309:ARG:NH2	7:H:334:GLU:OE2	2.45	0.48
7:K:538:LYS:CB	8:L:822:LYS:CB	2.85	0.48
1:M:341:LEU:HD21	1:M:371:PHE:HZ	1.78	0.48
2:O:1216:TYR:HB2	2:O:1241:LEU:HD13	1.95	0.48
3:P:910:LEU:HD23	3:P:913:LEU:CD1	2.38	0.48
5:R:463:SER:O	5:R:463:SER:OG	2.31	0.48
5:R:669:THR:HA	5:R:672:TRP:HB2	1.94	0.48
5:R:951:ARG:CA	5:R:951:ARG:NE	2.76	0.48
7:T:317:ASN:HA	7:T:346:GLN:HB3	1.94	0.48
6:V:406:PHE:CD1	6:V:406:PHE:C	2.86	0.48
8:X:643:LYS:CG	8:X:647:GLN:HE22	2.23	0.48
2:C:914:GLN:HE21	2:C:953:ILE:HG23	1.78	0.48
3:D:503:GLU:OE1	3:D:508:LYS:HD3	2.14	0.48
3:D:586:LEU:HD11	3:D:592:TYR:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:134:ARG:NH1	4:E:198:MET:SD	2.86	0.48
4:E:1598:LEU:O	4:E:1602:LEU:HB2	2.13	0.48
5:F:1031:VAL:CB	6:G:314:TYR:O	2.61	0.48
5:F:1269:GLU:O	5:F:1273:LYS:HB3	2.13	0.48
6:G:294:LEU:O	6:G:298:THR:OG1	2.21	0.48
6:J:364:ILE:C	7:K:424:ASN:ND2	2.65	0.48
8:L:638:ASP:HA	8:L:641:VAL:CG2	2.42	0.48
1:M:255:GLU:HB3	1:M:480:GLN:HE21	1.79	0.48
1:M:829:TYR:C	1:M:829:TYR:CD1	2.85	0.48
3:P:539:SER:HA	3:P:545:GLN:NE2	2.29	0.48
3:P:919:VAL:CG2	3:P:927:LEU:H	2.26	0.48
3:P:1020:ASN:HB3	1:Z:251:ALA:HB3	1.82	0.48
4:Q:134:ARG:NH1	4:Q:198:MET:SD	2.87	0.48
5:R:710:LEU:HA	5:R:713:PHE:HB3	1.95	0.48
5:R:1031:VAL:CB	6:S:314:TYR:O	2.61	0.48
5:R:1465:GLN:HG3	5:R:1527:ARG:NH2	2.28	0.48
6:S:315:LEU:HD23	8:U:679:LEU:HD23	1.95	0.48
7:T:315:LYS:HA	7:T:347:THR:HA	1.94	0.48
1:Z:275:LYS:NZ	1:Z:441:MET:SD	2.81	0.48
1:A:140:ILE:HG22	4:E:1393:LYS:CE	2.43	0.48
3:D:449:ASN:ND2	3:D:461:ARG:HB2	2.27	0.48
3:D:539:SER:HA	3:D:545:GLN:NE2	2.29	0.48
3:D:927:LEU:HD13	3:D:973:ARG:NH2	2.29	0.48
4:E:570:GLN:HE21	4:E:622:LEU:HB3	1.78	0.48
4:E:573:LEU:HD22	4:E:637:VAL:HG13	1.96	0.48
4:E:878:PHE:HZ	4:E:917:PRO:HB3	1.77	0.48
5:F:923:VAL:HG23	5:F:925:HIS:H	1.77	0.48
6:G:428:ASN:HD21	6:G:432:LEU:HD23	1.78	0.48
6:J:380:TYR:O	6:J:380:TYR:CD1	2.66	0.48
6:J:401:ILE:HG23	7:K:466:LEU:HD22	1.77	0.48
6:J:445:GLU:O	6:J:449:LEU:HB2	2.13	0.48
1:N:88:LYS:HZ3	8:U:805:ARG:CB	2.24	0.48
1:N:494:TYR:O	1:N:497:THR:OG1	2.26	0.48
4:Q:573:LEU:HD22	4:Q:637:VAL:HG13	1.96	0.48
1:A:315:LYS:HD2	1:A:319:SER:OG	2.13	0.48
4:E:795:ILE:O	4:E:798:SER:OG	2.29	0.48
5:F:161:GLN:HA	5:F:164:LYS:HG3	1.94	0.48
5:F:929:TYR:C	5:F:931:GLY:H	2.17	0.48
5:F:951:ARG:NE	5:F:951:ARG:CA	2.76	0.48
5:F:1289:ILE:HD12	5:F:1289:ILE:HA	1.65	0.48
5:F:1529:ALA:HB2	5:F:1611:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:429:LEU:HA	6:J:434:THR:N	2.24	0.48
3:P:315:THR:HG22	3:P:317:SER:H	1.79	0.48
3:P:896:MET:O	3:P:900:VAL:HG23	2.13	0.48
4:Q:605:LYS:O	4:Q:605:LYS:NZ	2.37	0.48
5:R:334:GLN:HG2	5:R:860:ASN:HD21	1.73	0.48
5:R:929:TYR:C	5:R:931:GLY:H	2.17	0.48
5:R:1027:GLN:HG3	5:R:1027:GLN:O	2.13	0.48
5:R:1543:LEU:O	5:R:1547:ILE:HG22	2.13	0.48
5:R:1667:VAL:HA	5:R:1670:ILE:HG22	1.95	0.48
6:V:384:LEU:CD2	7:W:455:LYS:HG2	2.43	0.48
7:W:444:LEU:O	7:W:447:SER:CA	2.61	0.48
1:Z:305:ILE:HG21	1:Z:336:LEU:HA	1.94	0.48
1:Z:761:SER:C	1:Z:763:LEU:H	2.15	0.48
3:D:421:VAL:HG21	3:D:490:LYS:CB	2.41	0.48
3:D:911:ASN:HA	3:D:914:TYR:CE2	2.48	0.48
3:D:977:LYS:HE2	1:N:316:ALA:H	1.67	0.48
4:E:258:ILE:HA	4:E:261:ILE:HD11	1.96	0.48
8:I:739:GLN:C	8:I:741:ARG:N	2.61	0.48
8:I:750:THR:O	8:I:754:ASN:ND2	2.46	0.48
8:I:795:LYS:CE	8:I:799:SER:HB3	2.43	0.48
1:M:642:LEU:HA	1:M:645:GLN:CD	2.33	0.48
1:N:18:ALA:HA	1:N:21:LYS:HB2	1.95	0.48
4:Q:675:TYR:HA	4:Q:678:LYS:HG2	1.96	0.48
4:Q:822:ASN:O	4:Q:826:SER:HB3	2.12	0.48
4:Q:1499:LEU:HA	4:Q:1502:ILE:HG12	1.95	0.48
5:R:303:LYS:HA	5:R:306:VAL:HG22	1.96	0.48
6:S:428:ASN:HD21	6:S:432:LEU:HD23	1.78	0.48
7:W:430:GLY:C	7:W:432:ALA:N	2.65	0.48
1:Z:341:LEU:HD22	1:Z:415:ILE:HD11	1.95	0.48
1:A:341:LEU:HD21	1:A:371:PHE:HZ	1.78	0.48
3:D:745:ILE:HG13	3:D:746:THR:H	1.77	0.48
3:D:971:ILE:HD11	3:D:984:THR:CG2	2.43	0.48
5:F:965:LEU:O	5:F:965:LEU:HG	2.13	0.48
5:F:1300:LEU:HD23	5:F:1301:SER:HA	1.96	0.48
7:H:292:VAL:HG22	8:I:644:TRP:HZ3	1.79	0.48
7:H:511:GLU:CB	8:I:800:HIS:HE1	2.24	0.48
8:I:795:LYS:HZ3	8:I:795:LYS:HA	1.78	0.48
1:M:27:GLU:CB	1:Z:26:LEU:CD2	2.86	0.48
1:M:301:ASN:HA	1:M:304:LYS:HE3	1.96	0.48
3:P:971:ILE:HD11	3:P:984:THR:CG2	2.43	0.48
4:Q:1166:VAL:HG23	4:Q:1167:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:965:LEU:O	5:R:965:LEU:HG	2.13	0.48
8:U:738:ASP:O	8:U:740:LYS:HG3	2.14	0.48
8:U:792:GLN:O	8:U:794:ILE:N	2.46	0.48
6:V:293:HIS:CB	7:W:359:ASN:HD21	2.27	0.48
6:V:311:ASP:HA	6:V:314:TYR:CG	2.48	0.48
7:W:433:GLU:HB3	7:W:437:TRP:CZ3	2.49	0.48
7:W:446:ARG:HD3	7:W:446:ARG:C	2.34	0.48
8:X:774:ASN:HA	8:X:777:ASN:HB2	1.95	0.48
1:A:19:ASN:HA	1:A:22:LEU:CD1	2.44	0.48
1:A:128:LEU:CD1	4:E:1260:TYR:OH	2.44	0.48
1:A:255:GLU:HB3	1:A:480:GLN:HE21	1.79	0.48
3:D:453:GLY:O	3:D:456:ASN:N	2.45	0.48
3:D:919:VAL:CG2	3:D:927:LEU:H	2.26	0.48
4:E:476:ASP:OD1	4:E:476:ASP:N	2.45	0.48
5:F:938:ALA:O	5:F:941:SER:OG	2.22	0.48
5:F:1147:PHE:CD1	5:F:1147:PHE:C	2.85	0.48
6:G:295:LYS:NZ	6:J:363:LYS:HZ3	2.11	0.48
7:H:426:GLY:CA	8:I:735:ASN:C	2.82	0.48
8:I:814:LEU:HD21	1:Z:59:LYS:HA	1.96	0.48
6:J:371:LYS:HZ2	6:J:371:LYS:C	2.08	0.48
1:M:269:ASN:HB3	1:M:272:GLU:HB2	1.96	0.48
3:P:491:ARG:HA	3:P:520:THR:HB	1.96	0.48
4:Q:1460:LEU:O	4:Q:1463:SER:OG	2.31	0.48
5:R:1357:ALA:HA	5:R:1381:LEU:CB	2.42	0.48
8:U:795:LYS:CE	8:U:799:SER:HB3	2.43	0.48
8:U:816:LYS:N	8:U:816:LYS:HE2	2.28	0.48
7:W:314:ASN:H	7:W:349:PRO:HA	1.79	0.48
7:W:339:MET:SD	7:W:342:LYS:NZ	2.68	0.48
1:Z:810:ALA:O	1:Z:836:ASP:CB	2.62	0.48
1:A:723:ILE:HG23	1:A:735:THR:HG23	1.96	0.48
3:D:315:THR:HG22	3:D:317:SER:H	1.79	0.48
3:D:481:LEU:CD2	3:D:488:GLN:HB3	2.43	0.48
3:D:491:ARG:HA	3:D:520:THR:HB	1.96	0.48
3:D:910:LEU:HA	3:D:913:LEU:HD12	1.96	0.48
4:E:258:ILE:HA	4:E:261:ILE:HG13	1.95	0.48
4:E:1063:ASP:N	4:E:1063:ASP:OD1	2.45	0.48
5:F:1027:GLN:HG3	5:F:1027:GLN:O	2.13	0.48
8:I:778:LYS:HA	8:I:778:LYS:NZ	2.29	0.48
8:I:778:LYS:HA	8:I:778:LYS:HZ2	1.79	0.48
6:J:283:TYR:O	6:J:286:LYS:HG2	2.14	0.48
6:J:311:ASP:HA	6:J:314:TYR:CG	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:384:LEU:CD2	7:K:455:LYS:HG2	2.43	0.48
7:K:314:ASN:H	7:K:349:PRO:HA	1.79	0.48
7:K:433:GLU:HB3	7:K:437:TRP:CZ3	2.49	0.48
1:N:84:ASP:OD1	6:S:449:LEU:HD23	2.13	0.48
1:N:133:THR:O	1:N:134:LYS:C	2.52	0.48
2:O:888:LEU:HA	2:O:892:PHE:CD2	2.49	0.48
5:R:690:GLU:HG2	8:U:722:LEU:HD21	1.91	0.48
6:S:395:GLU:HA	6:S:398:VAL:HB	1.96	0.48
7:W:389:LYS:HA	7:W:393:ASP:HB3	0.61	0.48
8:X:777:ASN:HD22	8:X:795:LYS:HA	1.79	0.48
1:Z:254:LEU:O	1:Z:257:TRP:N	2.47	0.48
1:A:133:THR:O	1:A:134:LYS:C	2.52	0.48
3:D:426:VAL:CG2	3:D:437:VAL:HG23	2.44	0.48
3:D:503:GLU:HB2	3:D:507:LEU:N	2.29	0.48
3:D:585:ILE:HG12	3:D:591:LYS:HB2	1.94	0.48
3:D:976:THR:CB	3:D:981:ILE:CB	2.91	0.48
4:E:1260:TYR:O	4:E:1260:TYR:CD1	2.67	0.48
4:E:1384:ASP:HA	4:E:1388:LEU:HB2	1.96	0.48
5:F:161:GLN:HB2	5:F:183:ARG:HH12	1.79	0.48
5:F:291:GLU:HG3	5:F:295:ARG:HG2	1.95	0.48
5:F:837:TYR:CG	5:F:918:PHE:CZ	3.02	0.48
5:F:927:GLY:HA3	5:F:978:ILE:HD11	1.95	0.48
5:F:1167:LYS:HE3	5:F:1167:LYS:CA	2.27	0.48
7:H:492:ASP:O	7:H:493:SER:CB	2.62	0.48
6:J:376:LYS:NZ	8:L:756:ASN:ND2	2.57	0.48
1:M:133:THR:O	1:M:134:LYS:C	2.52	0.48
1:N:697:PHE:HA	1:N:703:SER:HB3	1.96	0.48
1:N:767:ILE:HD12	1:N:768:VAL:HG23	1.95	0.48
3:P:426:VAL:CG2	3:P:437:VAL:HG23	2.44	0.48
3:P:517:LEU:HB2	3:P:540:GLN:OE1	2.14	0.48
3:P:606:GLN:N	3:P:642:LEU:O	2.36	0.48
4:Q:1163:LEU:HB3	4:Q:1173:TRP:HH2	1.78	0.48
5:R:110:ARG:NH2	5:R:190:TYR:OH	2.47	0.48
5:R:1088:ARG:NH1	5:R:1088:ARG:CG	2.73	0.48
5:R:1506:ILE:HG22	5:R:1507:ASN:H	1.79	0.48
7:T:298:SER:OG	7:T:305:LYS:O	2.25	0.48
6:V:391:LEU:HA	6:V:394:ILE:CD1	2.43	0.48
3:D:442:GLY:O	3:D:468:PRO:HG3	2.14	0.47
3:D:538:SER:OG	3:D:545:GLN:HB2	2.13	0.47
4:E:675:TYR:HA	4:E:678:LYS:HG2	1.96	0.47
4:E:1166:VAL:HG23	4:E:1167:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:320:GLU:CD	5:F:351:HIS:CE1	2.87	0.47
5:F:1493:LYS:HD2	5:F:1493:LYS:HA	1.66	0.47
6:J:376:LYS:HD2	6:J:376:LYS:C	2.34	0.47
1:M:630:ARG:O	1:M:634:ASP:N	2.41	0.47
1:N:116:LYS:HE2	1:N:116:LYS:CA	2.44	0.47
1:N:123:MET:SD	1:N:123:MET:C	2.93	0.47
1:N:242:LEU:HD21	1:N:253:LEU:HB3	1.96	0.47
2:O:1258:GLN:CG	2:O:1299:LYS:HE2	2.41	0.47
4:Q:604:PRO:HG3	4:Q:666:PRO:HG2	1.96	0.47
4:Q:994:ILE:HG13	4:Q:995:LEU:HD12	1.95	0.47
5:R:46:ALA:O	5:R:50:GLN:CB	2.62	0.47
5:R:1392:ILE:CB	5:R:1405:PHE:HE2	2.27	0.47
8:U:778:LYS:HA	8:U:778:LYS:NZ	2.29	0.47
7:W:312:VAL:CG1	7:W:361:ARG:HH21	2.27	0.47
1:Z:123:MET:SD	1:Z:123:MET:C	2.93	0.47
1:Z:271:VAL:HG22	1:Z:459:LEU:HD22	1.96	0.47
1:A:301:ASN:HA	1:A:304:LYS:HE3	1.96	0.47
3:D:445:ARG:HH11	3:D:466:LYS:HB3	1.79	0.47
3:D:628:PHE:O	3:D:779:ARG:HD2	2.14	0.47
4:E:1031:LYS:HB2	4:E:1034:ILE:HG12	1.96	0.47
5:F:710:LEU:HA	5:F:713:PHE:HB3	1.95	0.47
5:F:907:HIS:CB	7:H:410:LYS:HD3	2.44	0.47
5:F:971:SER:OG	5:F:972:VAL:N	2.46	0.47
5:F:1370:LEU:C	5:F:1371:ILE:HG12	2.33	0.47
5:F:1550:LEU:CD1	5:F:1552:PHE:CZ	2.97	0.47
6:J:388:CYS:SG	6:J:391:LEU:CB	3.02	0.47
7:K:538:LYS:CB	8:L:821:ILE:HG22	2.42	0.47
1:N:768:VAL:HA	1:N:771:ILE:CD1	2.41	0.47
2:O:914:GLN:HE21	2:O:953:ILE:HG23	1.78	0.47
3:P:917:SER:OG	3:P:975:ILE:HA	2.15	0.47
3:P:927:LEU:HD13	3:P:973:ARG:NH2	2.29	0.47
5:R:671:PHE:HA	5:R:674:PHE:HB2	1.96	0.47
5:R:792:ASP:OD2	5:R:1244:ASN:ND2	2.43	0.47
5:R:1012:ASN:O	8:U:787:GLU:CG	2.52	0.47
6:S:436:LEU:HD13	7:T:503:ASN:CB	2.43	0.47
6:V:283:TYR:O	6:V:286:LYS:HG2	2.14	0.47
6:V:376:LYS:HD2	6:V:376:LYS:C	2.34	0.47
6:V:389:ARG:NH1	6:V:389:ARG:CG	2.72	0.47
1:Z:641:ILE:HD13	1:Z:656:LEU:HD12	1.96	0.47
1:Z:771:ILE:HG22	1:Z:772:PRO:HD2	1.94	0.47
1:A:687:LEU:HA	1:A:690:ARG:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1018:LEU:HD22	1:N:247:GLY:HA2	1.95	0.47
4:E:18:VAL:HA	4:E:40:ILE:HD11	1.97	0.47
5:F:922:LEU:HD12	5:F:922:LEU:N	2.23	0.47
8:L:774:ASN:HB3	8:L:795:LYS:HE2	1.96	0.47
8:L:777:ASN:HD22	8:L:795:LYS:HA	1.79	0.47
8:L:818:ILE:HA	8:L:821:ILE:HG22	1.97	0.47
1:N:242:LEU:HD11	1:N:253:LEU:HD12	1.96	0.47
3:P:481:LEU:CD2	3:P:488:GLN:HB3	2.43	0.47
3:P:503:GLU:HB2	3:P:507:LEU:N	2.29	0.47
4:Q:570:GLN:HE21	4:Q:622:LEU:HB3	1.78	0.47
5:R:291:GLU:HG3	5:R:295:ARG:HG2	1.95	0.47
5:R:866:GLN:HA	5:R:869:VAL:HG12	1.95	0.47
5:R:925:HIS:HA	5:R:928:LEU:CD1	2.44	0.47
7:T:492:ASP:O	7:T:493:SER:CB	2.62	0.47
8:U:822:LYS:HG3	8:U:822:LYS:O	2.15	0.47
6:V:300:ASP:HA	6:V:303:GLU:OE1	2.14	0.47
3:D:149:GLU:OE2	3:D:653:ARG:NH1	2.37	0.47
3:D:1376:LYS:CB	1:Z:762:ASN:CB	2.93	0.47
4:E:604:PRO:HG3	4:E:666:PRO:HG2	1.96	0.47
4:E:803:LEU:HG	4:E:807:LEU:HD12	1.96	0.47
4:E:1200:GLU:HA	4:E:1203:THR:HG22	1.97	0.47
5:F:275:VAL:HA	5:F:278:ILE:HB	1.96	0.47
1:M:505:HIS:HE1	1:M:541:TYR:OH	1.96	0.47
1:N:341:LEU:HD22	1:N:415:ILE:HD11	1.96	0.47
1:N:774:LEU:HD23	1:N:774:LEU:O	2.15	0.47
3:P:515:VAL:HA	3:P:644:SER:HB3	1.97	0.47
3:P:893:ILE:O	3:P:897:ILE:HG13	2.15	0.47
3:P:1140:LYS:NZ	1:Z:204:GLU:CB	2.71	0.47
4:Q:18:VAL:HA	4:Q:40:ILE:HD11	1.96	0.47
7:T:472:ASN:O	7:T:476:GLN:CB	2.63	0.47
6:V:445:GLU:O	6:V:449:LEU:HB2	2.13	0.47
7:W:402:GLN:NE2	7:W:402:GLN:CA	2.76	0.47
7:W:427:LEU:H	7:W:428:PRO:HD3	1.79	0.47
8:X:769:ILE:HA	8:X:772:VAL:HG12	1.95	0.47
8:X:818:ILE:HA	8:X:821:ILE:HG22	1.97	0.47
2:C:1216:TYR:HB2	2:C:1241:LEU:HD13	1.95	0.47
3:D:182:CYS:SG	3:D:195:ILE:HD11	2.55	0.47
3:D:517:LEU:HB2	3:D:540:GLN:OE1	2.14	0.47
3:D:789:VAL:HG11	3:D:952:LEU:CD1	2.44	0.47
4:E:1345:SER:O	4:E:1349:TYR:HB2	2.14	0.47
5:F:900:LEU:HD22	5:F:904:TYR:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:925:HIS:HA	5:F:928:LEU:CD1	2.44	0.47
5:F:1058:ALA:C	5:F:1060:LEU:H	2.16	0.47
5:F:1249:ILE:HA	5:F:1252:VAL:HG12	1.95	0.47
5:F:1392:ILE:CB	5:F:1405:PHE:HE2	2.28	0.47
7:H:472:ASN:O	7:H:476:GLN:CB	2.63	0.47
8:I:822:LYS:HG3	8:I:822:LYS:O	2.15	0.47
8:L:769:ILE:HA	8:L:772:VAL:HG12	1.95	0.47
1:N:271:VAL:HG22	1:N:459:LEU:HD22	1.96	0.47
3:P:442:GLY:O	3:P:468:PRO:HG3	2.15	0.47
3:P:445:ARG:HH11	3:P:466:LYS:HB3	1.79	0.47
4:Q:105:GLU:O	4:Q:109:ARG:N	2.47	0.47
5:R:275:VAL:HA	5:R:278:ILE:HB	1.95	0.47
5:R:320:GLU:CD	5:R:351:HIS:CE1	2.87	0.47
7:T:292:VAL:HG22	8:U:644:TRP:HZ3	1.79	0.47
6:V:391:LEU:HA	6:V:394:ILE:HD13	1.96	0.47
1:Z:199:ARG:NH2	1:Z:496:TYR:O	2.45	0.47
1:Z:786:ILE:CD1	1:Z:838:SER:HA	2.44	0.47
1:A:31:ASN:HA	7:K:522:TYR:HD2	1.80	0.47
1:A:688:LEU:O	1:A:692:MET:HG2	2.14	0.47
3:D:568:GLN:NE2	3:D:573:GLN:HG2	2.30	0.47
3:D:903:ILE:HG12	3:D:953:PHE:CG	2.50	0.47
3:D:917:SER:OG	3:D:975:ILE:HA	2.15	0.47
3:D:1133:ILE:CB	1:N:209:ARG:CB	2.92	0.47
4:E:725:LEU:HG	4:E:1169:ALA:HB3	1.97	0.47
4:E:954:ILE:HD11	4:E:1015:LYS:HE3	1.97	0.47
4:E:1163:LEU:HB3	4:E:1173:TRP:HH2	1.78	0.47
4:E:1499:LEU:HA	4:E:1502:ILE:HG12	1.95	0.47
5:F:110:ARG:NH2	5:F:190:TYR:OH	2.47	0.47
5:F:1486:LEU:HA	5:F:1489:ILE:HB	1.96	0.47
6:G:315:LEU:HD23	8:I:679:LEU:HD23	1.95	0.47
7:K:446:ARG:HH22	7:K:455:LYS:HZ3	1.49	0.47
7:K:446:ARG:C	7:K:446:ARG:HD3	2.34	0.47
1:M:688:LEU:O	1:M:692:MET:HG2	2.14	0.47
1:N:810:ALA:O	1:N:836:ASP:CB	2.62	0.47
3:P:538:SER:OG	3:P:545:GLN:HB2	2.13	0.47
4:Q:683:ASP:OD1	4:Q:689:GLY:N	2.36	0.47
5:R:25:PHE:HB3	5:R:26:LYS:HZ2	1.79	0.47
5:R:159:LYS:CE	5:R:363:ASP:CB	2.93	0.47
5:R:900:LEU:C	5:R:900:LEU:CD1	2.82	0.47
5:R:1283:LYS:NZ	5:R:1286:PHE:HB3	2.30	0.47
6:S:404:ASP:CB	6:S:425:GLU:O	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:432:LEU:CA	8:X:782:ILE:HA	2.45	0.47
7:W:483:VAL:O	7:W:493:SER:N	2.48	0.47
7:W:508:LYS:NZ	1:Z:12:SER:O	2.47	0.47
1:A:193:LEU:HB3	1:A:546:ARG:NH1	2.30	0.47
1:A:829:TYR:CD1	1:A:829:TYR:C	2.85	0.47
3:D:447:TYR:O	3:D:462:LEU:HD12	2.15	0.47
3:D:503:GLU:OE1	3:D:503:GLU:N	2.45	0.47
4:E:51:LEU:HA	4:E:109:ARG:HD3	1.97	0.47
4:E:227:ILE:HD11	4:E:258:ILE:HG21	1.95	0.47
4:E:1608:HIS:HB3	4:E:1611:TYR:HB3	1.97	0.47
5:F:21:ASP:HB2	5:F:24:LEU:HB2	1.97	0.47
5:F:46:ALA:O	5:F:50:GLN:CB	2.62	0.47
5:F:219:HIS:NE2	5:F:222:GLU:OE2	2.48	0.47
5:F:655:LYS:HG3	5:F:708:GLY:HA2	1.95	0.47
5:F:665:GLU:HG2	5:F:668:ARG:HG3	1.97	0.47
5:F:1058:ALA:C	5:F:1060:LEU:N	2.67	0.47
5:F:1210:LYS:HB2	5:F:1289:ILE:HD11	1.96	0.47
5:F:1423:SER:HA	5:F:1426:VAL:HG12	1.97	0.47
6:G:353:LEU:HD11	6:G:365:SER:HB2	1.97	0.47
6:G:380:TYR:HA	6:G:383:LYS:HE3	1.95	0.47
8:I:738:ASP:O	8:I:740:LYS:HG3	2.14	0.47
8:I:792:GLN:O	8:I:794:ILE:N	2.46	0.47
6:J:277:ILE:HD12	6:J:280:LEU:HD23	1.97	0.47
6:J:324:GLN:HA	6:J:327:LYS:CE	2.35	0.47
7:K:358:LEU:O	7:K:362:ASN:ND2	2.48	0.47
7:K:535:LYS:O	7:K:539:ASN:N	2.43	0.47
8:L:661:LYS:HE2	8:L:665:TRP:CH2	2.50	0.47
1:M:193:LEU:HB3	1:M:546:ARG:NH1	2.30	0.47
1:M:469:TYR:HB3	1:M:473:ARG:HB2	1.97	0.47
1:M:810:ALA:HB1	1:M:836:ASP:OD1	2.15	0.47
1:N:239:ILE:O	1:N:243:SER:OG	2.30	0.47
1:N:641:ILE:HD13	1:N:656:LEU:HD12	1.96	0.47
1:N:762:ASN:CB	3:P:1376:LYS:CB	2.93	0.47
3:P:182:CYS:SG	3:P:195:ILE:HD11	2.55	0.47
3:P:503:GLU:OE1	3:P:508:LYS:HD3	2.14	0.47
3:P:611:LEU:CG	3:P:640:ALA:HB2	2.45	0.47
3:P:911:ASN:HA	3:P:914:TYR:CE2	2.49	0.47
4:Q:51:LEU:HA	4:Q:109:ARG:HD3	1.97	0.47
4:Q:1031:LYS:HB2	4:Q:1034:ILE:HG12	1.97	0.47
4:Q:1260:TYR:CD1	4:Q:1260:TYR:O	2.67	0.47
5:R:10:THR:O	5:R:14:SER:CB	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:56:ILE:HD13	5:R:86:ILE:HD13	1.97	0.47
5:R:245:ARG:NH2	5:R:284:TYR:O	2.45	0.47
5:R:425:ASP:N	5:R:425:ASP:OD1	2.48	0.47
5:R:439:LEU:HA	5:R:442:ILE:HG22	1.97	0.47
5:R:711:GLN:NE2	5:R:714:HIS:HB2	2.29	0.47
5:R:900:LEU:HD22	5:R:904:TYR:CE2	2.49	0.47
5:R:907:HIS:CB	7:T:410:LYS:HD3	2.44	0.47
5:R:920:ILE:HB	5:R:924:ALA:HA	1.97	0.47
5:R:1014:SER:N	8:U:788:ASP:H	2.12	0.47
5:R:1058:ALA:C	5:R:1060:LEU:N	2.67	0.47
5:R:1086:LEU:HD23	5:R:1086:LEU:HA	1.77	0.47
5:R:1622:VAL:HA	5:R:1625:THR:HG22	1.97	0.47
6:S:380:TYR:HA	6:S:383:LYS:HE3	1.95	0.47
8:U:822:LYS:NZ	8:U:822:LYS:CA	2.73	0.47
6:V:326:LEU:HD22	8:X:689:SER:OG	2.14	0.47
6:V:357:LEU:CD2	7:W:423:LYS:HE3	2.44	0.47
8:X:664:SER:HA	8:X:667:GLN:HE21	1.80	0.47
8:X:774:ASN:HB3	8:X:795:LYS:HE2	1.96	0.47
1:Z:574:GLU:HA	1:Z:577:ARG:HB2	1.96	0.47
1:A:31:ASN:HA	7:K:522:TYR:CD2	2.50	0.47
1:A:615:ASP:HB2	1:A:618:GLU:HG3	1.97	0.47
1:A:817:ALA:CB	1:A:832:LEU:HD13	2.45	0.47
2:C:888:LEU:HA	2:C:892:PHE:CD2	2.49	0.47
3:D:125:SER:OG	3:D:734:LEU:HD13	2.15	0.47
3:D:1140:LYS:NZ	1:N:204:GLU:CB	2.67	0.47
4:E:105:GLU:O	4:E:109:ARG:N	2.47	0.47
4:E:141:LEU:HD11	4:E:195:LEU:HD13	1.97	0.47
5:F:228:PHE:CE2	5:F:359:GLN:HA	2.50	0.47
5:F:609:LEU:HA	5:F:612:LEU:HB2	1.96	0.47
5:F:850:GLN:HA	5:F:853:ILE:HD12	1.97	0.47
6:J:300:ASP:HA	6:J:303:GLU:OE1	2.14	0.47
6:J:326:LEU:HD22	8:L:689:SER:OG	2.14	0.47
6:J:405:LEU:HD11	7:K:469:ARG:CG	2.37	0.47
7:K:427:LEU:H	7:K:428:PRO:HD3	1.79	0.47
1:N:574:GLU:HA	1:N:577:ARG:HB2	1.96	0.47
1:N:786:ILE:CD1	1:N:838:SER:HA	2.44	0.47
3:P:175:ILE:CD1	3:P:642:LEU:HB2	2.36	0.47
3:P:903:ILE:HG12	3:P:953:PHE:CG	2.50	0.47
4:Q:279:ILE:HG23	4:Q:281:GLN:HG2	1.97	0.47
4:Q:393:THR:H	4:Q:396:THR:HG22	1.80	0.47
4:Q:954:ILE:HD11	4:Q:1015:LYS:HE3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:1345:SER:O	4:Q:1349:TYR:HB2	2.14	0.47
5:R:320:GLU:CD	5:R:351:HIS:HD1	2.18	0.47
5:R:837:TYR:CG	5:R:918:PHE:CZ	3.02	0.47
5:R:850:GLN:HA	5:R:853:ILE:HD12	1.97	0.47
5:R:1210:LYS:HB2	5:R:1289:ILE:HD11	1.96	0.47
5:R:1495:THR:HA	5:R:1498:LEU:HB2	1.97	0.47
5:R:1550:LEU:CD1	5:R:1552:PHE:CZ	2.97	0.47
6:S:296:ALA:N	6:V:363:LYS:HZ2	2.12	0.47
1:Z:211:LYS:HZ2	1:Z:246:ASN:ND2	2.06	0.47
1:A:630:ARG:O	1:A:634:ASP:N	2.41	0.47
2:C:1389:GLY:HA2	4:E:1331:LEU:CD1	2.45	0.47
3:D:893:ILE:O	3:D:897:ILE:HG13	2.15	0.47
3:D:1019:ARG:HA	1:N:245:ALA:CB	2.45	0.47
4:E:1380:ASP:C	4:E:1382:THR:N	2.68	0.47
5:F:711:GLN:NE2	5:F:714:HIS:HB2	2.29	0.47
5:F:1622:VAL:HA	5:F:1625:THR:HG22	1.97	0.47
7:H:312:VAL:HG12	7:H:361:ARG:HH21	1.80	0.47
6:J:371:LYS:C	6:J:371:LYS:CE	2.84	0.47
7:K:312:VAL:CG1	7:K:361:ARG:HH21	2.27	0.47
3:P:789:VAL:HG11	3:P:952:LEU:CD1	2.44	0.47
3:P:910:LEU:HA	3:P:913:LEU:HD12	1.96	0.47
4:Q:1086:ILE:HD11	4:Q:1096:ILE:HB	1.97	0.47
5:R:228:PHE:CE2	5:R:359:GLN:HA	2.50	0.47
5:R:655:LYS:HG3	5:R:708:GLY:HA2	1.95	0.47
5:R:1300:LEU:HD23	5:R:1301:SER:HA	1.96	0.47
6:V:434:THR:OG1	6:V:435:GLY:N	2.47	0.47
8:X:661:LYS:HE2	8:X:665:TRP:CH2	2.50	0.47
1:Z:539:ALA:HA	1:Z:542:THR:HG22	1.97	0.47
1:Z:551:ARG:HH12	1:Z:607:ARG:HH12	1.63	0.47
1:A:420:LEU:HD13	1:A:457:TYR:HB2	1.97	0.47
3:D:412:ILE:HG13	3:D:413:LEU:CD1	2.43	0.47
3:D:1238:ARG:CG	1:Z:830:SER:HB2	2.40	0.47
3:D:1465:ILE:HG23	3:D:1487:TYR:CZ	2.49	0.47
4:E:284:ILE:HD11	4:E:328:ILE:HD12	1.96	0.47
4:E:1558:GLN:NE2	4:E:1590:ASP:OD1	2.48	0.47
5:F:322:ILE:HA	5:F:325:PHE:HB3	1.97	0.47
5:F:1506:ILE:HG22	5:F:1507:ASN:H	1.79	0.47
5:F:1634:LYS:O	5:F:1638:ILE:N	2.34	0.47
7:K:310:ALA:HB3	7:K:352:ILE:CB	2.40	0.47
7:K:313:TYR:HA	7:K:349:PRO:CB	2.40	0.47
1:M:140:ILE:HG22	4:Q:1393:LYS:CE	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:539:ALA:HA	1:N:542:THR:HG22	1.96	0.47
1:N:710:ASN:OD1	1:N:710:ASN:N	2.48	0.47
4:Q:803:LEU:HG	4:Q:807:LEU:HD12	1.96	0.47
4:Q:1380:ASP:C	4:Q:1382:THR:N	2.68	0.47
4:Q:1384:ASP:HA	4:Q:1388:LEU:HB2	1.96	0.47
5:R:1104:ASN:O	5:R:1108:ARG:NH1	2.48	0.47
5:R:1517:ALA:O	5:R:1521:THR:OG1	2.24	0.47
8:U:655:PHE:O	8:U:659:THR:OG1	2.27	0.47
6:V:371:LYS:CE	6:V:371:LYS:C	2.84	0.47
1:Z:138:ASN:C	1:Z:138:ASN:HD22	2.19	0.47
1:Z:767:ILE:H	1:Z:767:ILE:HG13	1.47	0.47
1:Z:768:VAL:HA	1:Z:771:ILE:CD1	2.41	0.47
1:A:563:ASN:O	1:A:564:GLU:HG3	2.15	0.46
4:E:100:GLU:O	4:E:104:SER:OG	2.26	0.46
4:E:207:ASP:O	4:E:211:GLN:HB2	2.15	0.46
4:E:458:LYS:HG3	4:E:562:TRP:HE1	1.81	0.46
5:F:425:ASP:OD1	5:F:425:ASP:N	2.48	0.46
5:F:750:TRP:CG	5:F:750:TRP:O	2.68	0.46
5:F:1104:ASN:O	5:F:1108:ARG:NH1	2.49	0.46
5:F:1136:LYS:CB	5:F:1207:CYS:HA	2.45	0.46
5:F:1283:LYS:NZ	5:F:1286:PHE:HB3	2.30	0.46
6:G:404:ASP:CB	6:G:425:GLU:O	2.63	0.46
7:K:413:LEU:HG	8:L:749:GLN:HE21	1.80	0.46
7:K:466:LEU:O	7:K:470:ALA:N	2.40	0.46
8:L:664:SER:HA	8:L:667:GLN:HE21	1.80	0.46
1:M:354:VAL:HA	1:M:368:LEU:HD11	1.97	0.46
1:M:687:LEU:HA	1:M:690:ARG:HG2	1.96	0.46
1:N:59:LYS:HA	8:U:814:LEU:HD21	1.96	0.46
3:P:863:ILE:CD1	3:P:887:GLN:HG3	2.46	0.46
4:Q:284:ILE:HD11	4:Q:328:ILE:HD12	1.96	0.46
4:Q:1503:VAL:HA	4:Q:1506:LEU:HG	1.96	0.46
5:R:154:GLN:HG3	5:R:190:TYR:HE2	1.80	0.46
5:R:159:LYS:HE3	5:R:363:ASP:CB	2.46	0.46
5:R:322:ILE:HA	5:R:325:PHE:HB3	1.97	0.46
5:R:343:ASP:OD2	5:R:702:LYS:NZ	2.38	0.46
7:T:412:ILE:HG22	7:T:415:LEU:HD23	1.94	0.46
7:W:358:LEU:O	7:W:362:ASN:ND2	2.48	0.46
1:Z:116:LYS:HE2	1:Z:116:LYS:CA	2.44	0.46
2:C:285:GLU:HB2	2:C:304:LEU:HD11	1.96	0.46
3:D:361:ILE:HD12	3:D:368:ILE:HG12	1.97	0.46
3:D:611:LEU:CG	3:D:640:ALA:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:797:ARG:NH2	3:D:799:THR:OG1	2.49	0.46
5:F:439:LEU:HA	5:F:442:ILE:HG22	1.97	0.46
5:F:538:GLU:O	5:F:542:ASN:ND2	2.49	0.46
5:F:623:VAL:HG11	5:F:626:ASP:HB2	1.97	0.46
5:F:1364:TYR:O	5:F:1364:TYR:CD1	2.68	0.46
5:F:1406:TYR:OH	5:F:1452:SER:O	2.33	0.46
8:I:795:LYS:CA	8:I:795:LYS:HZ3	2.28	0.46
6:J:432:LEU:CA	8:L:782:ILE:HA	2.45	0.46
1:N:820:ILE:O	1:N:822:TYR:N	2.48	0.46
3:P:453:GLY:O	3:P:456:ASN:N	2.45	0.46
4:Q:53:GLU:HB2	4:Q:140:LYS:HD2	1.98	0.46
4:Q:182:PHE:HZ	5:R:1189:MET:CB	2.23	0.46
4:Q:1180:GLN:NE2	4:Q:1181:THR:O	2.40	0.46
5:R:1136:LYS:CB	5:R:1207:CYS:HA	2.45	0.46
6:S:310:ARG:NE	6:S:314:TYR:OH	2.49	0.46
1:A:810:ALA:HB1	1:A:836:ASP:OD1	2.15	0.46
4:E:1029:ASN:HD22	7:K:475:SER:CB	2.26	0.46
4:E:1160:ILE:HG13	4:E:1161:PRO:HD3	1.98	0.46
5:F:154:GLN:HG3	5:F:190:TYR:HE2	1.81	0.46
5:F:951:ARG:NE	5:F:951:ARG:HA	2.29	0.46
8:I:788:ASP:N	8:I:788:ASP:OD1	2.49	0.46
8:I:821:ILE:HD13	8:I:821:ILE:O	2.16	0.46
6:J:353:LEU:HD12	7:K:423:LYS:HG2	1.97	0.46
6:J:357:LEU:CD2	7:K:423:LYS:HE3	2.45	0.46
7:K:483:VAL:O	7:K:493:SER:N	2.48	0.46
1:M:138:ASN:C	1:M:138:ASN:HD22	2.19	0.46
1:M:420:LEU:HD13	1:M:457:TYR:HB2	1.97	0.46
1:M:545:PHE:CD2	1:M:549:ASP:HB2	2.51	0.46
1:M:563:ASN:O	1:M:564:GLU:HG3	2.15	0.46
1:M:654:ILE:HG13	1:M:706:ILE:HG21	1.97	0.46
1:N:27:GLU:OE2	1:N:30:ASP:HB2	2.11	0.46
1:N:138:ASN:HD22	1:N:138:ASN:C	2.19	0.46
3:P:628:PHE:O	3:P:779:ARG:HD2	2.14	0.46
3:P:641:VAL:HB	3:P:648:GLU:CG	2.45	0.46
3:P:1000:ASP:OD1	3:P:1000:ASP:N	2.49	0.46
4:Q:207:ASP:O	4:Q:211:GLN:HB2	2.15	0.46
4:Q:858:LEU:HD23	4:Q:858:LEU:HA	1.73	0.46
5:R:564:ASP:OD1	5:R:564:ASP:N	2.49	0.46
5:R:1110:MET:CE	5:R:1157:TRP:CZ2	2.99	0.46
5:R:1281:LYS:HA	5:R:1281:LYS:HD2	1.54	0.46
5:R:1406:TYR:OH	5:R:1452:SER:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:86:PHE:N	1:Z:86:PHE:CD1	2.79	0.46
3:D:260:HIS:NE2	3:D:261:LEU:HD23	2.30	0.46
3:D:713:ILE:HD12	3:D:769:ARG:CG	2.46	0.46
5:F:899:PHE:O	5:F:904:TYR:OH	2.24	0.46
5:F:1014:SER:N	8:I:788:ASP:H	2.12	0.46
7:K:447:SER:CB	8:L:751:LEU:CD1	2.94	0.46
1:M:137:ASP:HB2	4:Q:1386:LEU:CA	2.42	0.46
1:N:88:LYS:O	1:N:92:THR:HG23	2.15	0.46
1:N:192:ILE:HG22	1:N:539:ALA:HB3	1.97	0.46
2:O:914:GLN:HE21	2:O:953:ILE:CG2	2.29	0.46
3:P:260:HIS:NE2	3:P:261:LEU:HD23	2.30	0.46
3:P:393:ILE:HD11	3:P:460:LEU:HB2	1.98	0.46
4:Q:624:THR:HG23	4:Q:632:ALA:HB2	1.97	0.46
5:R:21:ASP:HB2	5:R:24:LEU:HB2	1.97	0.46
5:R:161:GLN:HB2	5:R:183:ARG:HH12	1.79	0.46
5:R:219:HIS:NE2	5:R:222:GLU:OE2	2.48	0.46
5:R:538:GLU:O	5:R:542:ASN:ND2	2.49	0.46
5:R:609:LEU:HA	5:R:612:LEU:HB2	1.96	0.46
5:R:1486:LEU:HA	5:R:1489:ILE:HB	1.96	0.46
6:S:353:LEU:HD11	6:S:365:SER:HB2	1.97	0.46
7:T:312:VAL:HG12	7:T:361:ARG:HH21	1.80	0.46
8:U:778:LYS:HB2	8:U:794:ILE:CB	2.46	0.46
6:V:277:ILE:HD12	6:V:280:LEU:HD23	1.97	0.46
8:X:684:VAL:HA	8:X:687:GLU:OE1	2.16	0.46
1:Z:133:THR:O	1:Z:134:LYS:C	2.52	0.46
1:Z:306:LYS:HE2	1:Z:331:VAL:HG22	1.97	0.46
1:Z:599:ARG:NE	1:Z:605:GLU:OE1	2.39	0.46
1:Z:697:PHE:HA	1:Z:703:SER:HB3	1.96	0.46
1:A:269:ASN:HB3	1:A:272:GLU:HB2	1.96	0.46
2:C:229:ASP:CG	2:C:252:LYS:HE2	2.35	0.46
3:D:234:ILE:HD12	3:D:243:PHE:CE2	2.51	0.46
3:D:495:PHE:O	3:D:499:LEU:HG	2.16	0.46
3:D:515:VAL:HA	3:D:644:SER:HB3	1.97	0.46
5:F:10:THR:O	5:F:14:SER:CB	2.63	0.46
5:F:303:LYS:HA	5:F:306:VAL:HG22	1.96	0.46
5:F:319:ILE:HD11	5:F:477:ASP:HB2	1.97	0.46
5:F:320:GLU:CD	5:F:351:HIS:HD1	2.19	0.46
5:F:444:THR:HB	5:F:445:ASP:H	1.53	0.46
5:F:1110:MET:HE3	5:F:1157:TRP:HZ2	1.81	0.46
5:F:1480:MET:HG2	5:F:1537:ALA:HB1	1.98	0.46
6:G:310:ARG:NE	6:G:314:TYR:OH	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:288:ILE:O	7:K:292:VAL:HG23	2.15	0.46
1:M:16:LYS:CD	6:V:468:ALA:HB1	2.45	0.46
1:N:390:LEU:HD21	1:N:416:GLY:HA2	1.97	0.46
1:N:551:ARG:HH12	1:N:607:ARG:HH12	1.63	0.46
2:O:229:ASP:CG	2:O:252:LYS:HE2	2.36	0.46
3:P:125:SER:OG	3:P:734:LEU:HD13	2.15	0.46
3:P:735:SER:O	3:P:739:THR:OG1	2.32	0.46
3:P:1465:ILE:HG23	3:P:1487:TYR:CZ	2.49	0.46
4:Q:596:LYS:O	4:Q:600:ASN:ND2	2.49	0.46
4:Q:725:LEU:HG	4:Q:1169:ALA:HB3	1.97	0.46
4:Q:1608:HIS:HB3	4:Q:1611:TYR:HB3	1.97	0.46
5:R:665:GLU:HG2	5:R:668:ARG:HG3	1.97	0.46
5:R:750:TRP:CG	5:R:750:TRP:O	2.68	0.46
5:R:975:SER:HA	5:R:978:ILE:HG22	1.97	0.46
7:W:288:ILE:O	7:W:292:VAL:HG23	2.15	0.46
7:W:399:LEU:HD12	7:W:399:LEU:C	2.35	0.46
1:Z:192:ILE:HG22	1:Z:539:ALA:HB3	1.97	0.46
1:Z:210:GLU:O	1:Z:214:ASN:ND2	2.49	0.46
4:E:596:LYS:O	4:E:600:ASN:ND2	2.49	0.46
5:F:657:ILE:O	5:F:712:LEU:CD1	2.56	0.46
8:L:643:LYS:CG	8:L:647:GLN:HE22	2.23	0.46
1:N:210:GLU:O	1:N:214:ASN:ND2	2.49	0.46
3:P:437:VAL:HA	3:P:446:LEU:O	2.16	0.46
3:P:1020:ASN:CG	1:Z:252:GLN:H	2.19	0.46
5:R:526:PHE:HA	5:R:529:MET:HB3	1.97	0.46
5:R:917:PHE:O	5:R:917:PHE:CD1	2.69	0.46
5:R:1608:ILE:HA	5:R:1612:LEU:HD13	1.98	0.46
7:W:379:ILE:C	7:W:382:LYS:H	2.19	0.46
1:Z:820:ILE:O	1:Z:822:TYR:N	2.48	0.46
3:D:430:GLU:OE2	3:D:528:PRO:HA	2.16	0.46
3:D:863:ILE:CD1	3:D:887:GLN:HG3	2.46	0.46
3:D:910:LEU:HD23	3:D:913:LEU:CD1	2.38	0.46
4:E:279:ILE:HG23	4:E:281:GLN:HG2	1.97	0.46
4:E:393:THR:H	4:E:396:THR:HG22	1.80	0.46
4:E:559:PHE:HZ	4:E:567:ARG:HH22	1.64	0.46
4:E:851:SER:O	4:E:851:SER:OG	2.33	0.46
4:E:1503:VAL:HA	4:E:1506:LEU:HG	1.96	0.46
5:F:159:LYS:CE	5:F:363:ASP:CB	2.93	0.46
5:F:975:SER:HA	5:F:978:ILE:HG22	1.97	0.46
5:F:1034:LEU:HD22	5:F:1092:THR:CB	2.28	0.46
5:F:1110:MET:CE	5:F:1157:TRP:CZ2	2.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:694:ASP:OD2	8:I:698:GLN:NE2	2.37	0.46
6:J:431:GLN:C	7:K:499:GLY:H	2.19	0.46
7:K:399:LEU:HD12	7:K:399:LEU:C	2.35	0.46
1:M:514:LYS:HA	1:M:514:LYS:HD3	1.84	0.46
3:P:447:TYR:O	3:P:462:LEU:HD12	2.15	0.46
5:R:452:LYS:HA	5:R:452:LYS:HD2	1.70	0.46
5:R:1423:SER:HA	5:R:1426:VAL:HG12	1.97	0.46
7:W:316:VAL:H	7:W:347:THR:HA	1.81	0.46
1:Z:16:LYS:NZ	1:Z:16:LYS:HA	2.31	0.46
1:Z:239:ILE:O	1:Z:243:SER:OG	2.30	0.46
3:D:430:GLU:HA	3:D:624:PHE:CD2	2.50	0.46
3:D:1021:TYR:H	1:N:249:ARG:CB	2.29	0.46
5:F:750:TRP:O	5:F:750:TRP:CD1	2.69	0.46
5:F:1067:ASN:ND2	5:F:1069:ASP:HB2	2.31	0.46
5:F:1463:LEU:HD12	5:F:1463:LEU:HA	1.73	0.46
8:I:778:LYS:HB2	8:I:794:ILE:CB	2.46	0.46
8:I:805:ARG:CB	1:Z:88:LYS:HZ3	2.26	0.46
6:J:293:HIS:CB	7:K:359:ASN:HD21	2.27	0.46
6:J:406:PHE:CD1	6:J:406:PHE:C	2.87	0.46
7:K:301:PRO:HB3	7:K:353:TYR:O	2.16	0.46
1:M:24:GLU:HB3	1:Z:26:LEU:C	2.36	0.46
1:M:137:ASP:OD2	4:Q:1386:LEU:HG	2.16	0.46
1:M:615:ASP:HB2	1:M:618:GLU:HG3	1.97	0.46
1:M:739:MET:O	1:M:742:LEU:HB2	2.16	0.46
1:N:555:GLU:OE1	1:N:607:ARG:NH2	2.49	0.46
1:N:775:LEU:HD22	1:N:775:LEU:HA	1.64	0.46
2:O:285:GLU:HB2	2:O:304:LEU:HD11	1.96	0.46
3:P:462:LEU:HD21	3:P:465:ILE:CG2	2.46	0.46
3:P:568:GLN:NE2	3:P:573:GLN:HG2	2.30	0.46
4:Q:559:PHE:HZ	4:Q:567:ARG:HH22	1.64	0.46
4:Q:1160:ILE:HG13	4:Q:1161:PRO:HD3	1.98	0.46
4:Q:1276:LYS:HA	4:Q:1276:LYS:HD2	1.70	0.46
4:Q:1539:ASN:ND2	4:Q:1611:TYR:OH	2.48	0.46
5:R:859:LYS:HD2	5:R:860:ASN:H	1.81	0.46
5:R:1052:LEU:O	5:R:1055:VAL:N	2.42	0.46
5:R:1118:ARG:HD3	5:R:1118:ARG:HA	1.47	0.46
5:R:1480:MET:HG2	5:R:1537:ALA:HB1	1.98	0.46
6:S:289:GLN:OE1	6:V:352:VAL:HG13	2.16	0.46
6:V:431:GLN:C	7:W:499:GLY:H	2.19	0.46
6:V:433:LYS:CA	7:W:499:GLY:HA2	2.45	0.46
7:W:301:PRO:HB3	7:W:353:TYR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:314:ASN:O	7:W:348:ILE:N	2.48	0.46
7:W:315:LYS:CG	7:W:347:THR:HG22	2.46	0.46
7:W:389:LYS:CA	7:W:393:ASP:CB	2.39	0.46
1:Z:807:LYS:CB	1:Z:837:VAL:C	2.84	0.46
1:A:739:MET:O	1:A:742:LEU:HB2	2.16	0.46
3:D:830:SER:CB	3:D:934:SER:HB3	2.38	0.46
4:E:1086:ILE:HD11	4:E:1096:ILE:HB	1.97	0.46
5:F:56:ILE:HD13	5:F:86:ILE:HD13	1.97	0.46
5:F:671:PHE:HA	5:F:674:PHE:HB2	1.96	0.46
6:J:434:THR:OG1	6:J:435:GLY:N	2.47	0.46
8:L:684:VAL:HA	8:L:687:GLU:OE1	2.16	0.46
1:M:761:SER:CB	2:O:1355:SER:OG	2.63	0.46
3:P:118:THR:HB	3:P:623:GLY:CA	2.35	0.46
3:P:234:ILE:HD12	3:P:243:PHE:CE2	2.51	0.46
3:P:430:GLU:HA	3:P:624:PHE:CD2	2.51	0.46
3:P:608:ILE:CD1	3:P:641:VAL:HG22	2.46	0.46
3:P:665:ASN:CG	3:P:666:PRO:HD3	2.37	0.46
3:P:713:ILE:HD12	3:P:769:ARG:CG	2.46	0.46
4:Q:258:ILE:H	4:Q:258:ILE:HG12	1.47	0.46
5:R:23:ASP:OD1	5:R:23:ASP:N	2.47	0.46
5:R:319:ILE:HD11	5:R:477:ASP:HB2	1.97	0.46
5:R:1305:SER:C	5:R:1307:VAL:N	2.69	0.46
7:T:420:ALA:CB	8:U:745:TYR:CD1	2.96	0.46
8:U:778:LYS:CG	8:U:794:ILE:CB	2.94	0.46
1:A:140:ILE:CG2	4:E:1393:LYS:CE	2.94	0.46
1:A:545:PHE:CD2	1:A:549:ASP:HB2	2.50	0.46
2:C:229:ASP:CG	2:C:252:LYS:CE	2.85	0.46
3:D:608:ILE:CD1	3:D:641:VAL:HG22	2.46	0.46
3:D:1494:ASN:O	5:F:1471:LYS:NZ	2.49	0.46
5:F:526:PHE:HA	5:F:529:MET:HB3	1.97	0.46
5:F:1090:PRO:HD3	5:F:1093:SER:OG	2.16	0.46
7:H:386:LEU:HG	8:I:690:GLN:HE21	1.81	0.46
7:K:314:ASN:O	7:K:348:ILE:N	2.48	0.46
7:K:522:TYR:HA	7:K:525:GLU:HG2	1.98	0.46
1:M:21:LYS:CE	1:Z:27:GLU:HG2	2.46	0.46
3:P:654:THR:O	3:P:658:ILE:HG13	2.16	0.46
4:Q:504:ASP:OD1	4:Q:524:LYS:NZ	2.49	0.46
5:R:750:TRP:O	5:R:750:TRP:CD1	2.69	0.46
5:R:1139:ILE:H	5:R:1139:ILE:HD12	1.80	0.46
7:T:318:GLU:CB	7:T:346:GLN:HA	2.46	0.46
8:U:794:ILE:HA	8:U:797:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:V:300:ASP:O	6:V:304:LEU:HD13	2.16	0.46
6:V:406:PHE:HD1	6:V:406:PHE:O	1.99	0.46
7:W:429:LEU:HB2	8:X:741:ARG:NH2	2.31	0.46
1:Z:831:THR:HA	1:Z:834:ASN:HB2	1.97	0.46
1:A:761:SER:CB	2:C:1355:SER:OG	2.64	0.45
3:D:462:LEU:HD21	3:D:465:ILE:CG2	2.46	0.45
4:E:504:ASP:OD1	4:E:524:LYS:NZ	2.49	0.45
4:E:1484:LYS:HZ2	4:E:1486:GLU:HB2	1.81	0.45
5:F:159:LYS:HZ1	5:F:363:ASP:CB	2.28	0.45
5:F:564:ASP:N	5:F:564:ASP:OD1	2.49	0.45
5:F:672:TRP:CD1	5:F:675:LEU:HD22	2.52	0.45
5:F:920:ILE:HB	5:F:924:ALA:HA	1.97	0.45
8:I:778:LYS:CG	8:I:794:ILE:CB	2.94	0.45
7:K:315:LYS:CG	7:K:347:THR:HG22	2.46	0.45
7:K:402:GLN:CA	7:K:402:GLN:NE2	2.76	0.45
7:K:444:LEU:O	7:K:447:SER:CA	2.61	0.45
1:M:238:PHE:HZ	1:M:505:HIS:CD2	2.34	0.45
1:N:306:LYS:HE2	1:N:331:VAL:HG22	1.97	0.45
3:P:873:SER:OG	3:P:877:VAL:HB	2.17	0.45
4:Q:174:VAL:HA	4:Q:177:VAL:HG12	1.98	0.45
4:Q:982:ILE:N	4:Q:982:ILE:HD12	2.31	0.45
4:Q:1558:GLN:NE2	4:Q:1590:ASP:OD1	2.48	0.45
5:R:1364:TYR:O	5:R:1364:TYR:CD1	2.68	0.45
8:U:792:GLN:H	8:U:792:GLN:HG3	1.58	0.45
1:A:138:ASN:HD22	1:A:138:ASN:C	2.19	0.45
1:A:238:PHE:HZ	1:A:505:HIS:CD2	2.34	0.45
1:A:354:VAL:HA	1:A:368:LEU:HD11	1.98	0.45
1:A:679:ASP:HB3	1:A:684:ASN:HB2	1.99	0.45
3:D:519:THR:HG21	3:D:605:VAL:N	2.31	0.45
3:D:789:VAL:HA	3:D:949:PHE:CE1	2.51	0.45
5:F:917:PHE:CD1	5:F:917:PHE:O	2.69	0.45
5:F:1363:ILE:C	5:F:1363:ILE:CD1	2.85	0.45
7:H:318:GLU:CB	7:H:346:GLN:HA	2.46	0.45
7:K:429:LEU:HB2	8:L:741:ARG:NH2	2.31	0.45
1:M:675:VAL:HA	1:M:684:ASN:HD21	1.81	0.45
1:N:116:LYS:C	1:N:116:LYS:CE	2.85	0.45
4:Q:141:LEU:HD11	4:Q:195:LEU:HD13	1.97	0.45
4:Q:314:ASP:OD1	4:Q:314:ASP:N	2.48	0.45
4:Q:1200:GLU:HA	4:Q:1203:THR:HG22	1.97	0.45
5:R:1038:LEU:C	5:R:1040:THR:N	2.45	0.45
7:W:455:LYS:HD3	7:W:455:LYS:H	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:466:LEU:O	7:W:469:ARG:N	2.49	0.45
8:X:682:ASP:HA	8:X:685:MET:HE2	1.99	0.45
1:Z:88:LYS:O	1:Z:92:THR:HG23	2.15	0.45
2:C:914:GLN:HE21	2:C:953:ILE:CG2	2.29	0.45
3:D:654:THR:O	3:D:658:ILE:HG13	2.16	0.45
3:D:789:VAL:HG21	3:D:952:LEU:CD1	2.47	0.45
4:E:23:ASN:HD22	4:E:838:LYS:HD2	1.81	0.45
4:E:174:VAL:HA	4:E:177:VAL:HG12	1.97	0.45
5:F:48:ARG:NH1	5:F:85:GLU:OE2	2.47	0.45
5:F:98:THR:HG22	5:F:99:ALA:H	1.81	0.45
5:F:859:LYS:HD2	5:F:860:ASN:H	1.81	0.45
5:F:1139:ILE:HD12	5:F:1139:ILE:H	1.81	0.45
5:F:1285:HIS:ND1	5:F:1285:HIS:C	2.70	0.45
5:F:1608:ILE:HA	5:F:1612:LEU:HD13	1.98	0.45
8:I:793:LEU:HA	8:I:796:ILE:HG13	1.98	0.45
6:J:389:ARG:NH2	6:J:390:ILE:HD12	2.31	0.45
7:K:466:LEU:O	7:K:469:ARG:N	2.49	0.45
1:M:817:ALA:CB	1:M:832:LEU:HD13	2.45	0.45
1:N:555:GLU:HA	1:N:607:ARG:HH21	1.81	0.45
3:P:168:GLN:N	3:P:187:ASP:OD2	2.38	0.45
3:P:789:VAL:HA	3:P:949:PHE:CE1	2.51	0.45
3:P:797:ARG:NH2	3:P:799:THR:OG1	2.49	0.45
4:Q:458:LYS:HG3	4:Q:562:TRP:HE1	1.80	0.45
5:R:588:ASN:HB3	5:R:768:VAL:HG12	1.98	0.45
5:R:1036:PRO:CB	5:R:1042:ILE:H	2.30	0.45
5:R:1463:LEU:HD12	5:R:1463:LEU:HA	1.73	0.45
7:T:451:ALA:O	7:T:455:LYS:N	2.45	0.45
6:V:353:LEU:HD12	7:W:423:LYS:HG2	1.98	0.45
6:V:380:TYR:CD1	6:V:383:LYS:HD3	2.51	0.45
7:W:517:GLN:CA	7:W:520:ILE:HB	2.44	0.45
1:Z:555:GLU:OE1	1:Z:607:ARG:NH2	2.49	0.45
1:Z:774:LEU:HD23	1:Z:774:LEU:O	2.14	0.45
1:A:48:GLU:CA	7:K:514:THR:HG21	2.46	0.45
1:A:210:GLU:OE2	1:A:214:ASN:ND2	2.48	0.45
3:D:393:ILE:HD11	3:D:460:LEU:HB2	1.98	0.45
3:D:434:LEU:HD22	3:D:447:TYR:HB3	1.99	0.45
4:E:650:ASP:OD2	4:E:653:SER:OG	2.28	0.45
4:E:912:TRP:CD1	4:E:917:PRO:HD3	2.52	0.45
5:F:1110:MET:HE2	5:F:1157:TRP:CZ2	2.51	0.45
7:H:314:ASN:HB2	7:H:361:ARG:HH22	1.82	0.45
6:J:275:GLN:NE2	6:J:278:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:389:LYS:HA	7:K:393:ASP:HB3	0.61	0.45
1:M:195:SER:OG	1:M:536:ASN:OD1	2.34	0.45
1:M:589:LEU:O	1:M:604:ILE:HG22	2.17	0.45
3:P:361:ILE:HD12	3:P:368:ILE:HG12	1.97	0.45
3:P:1020:ASN:CG	1:Z:252:GLN:CG	2.73	0.45
4:Q:253:LEU:N	5:R:1191:SER:O	2.50	0.45
4:Q:368:ILE:HD13	4:Q:368:ILE:HA	1.88	0.45
4:Q:755:ASN:CB	5:R:1376:THR:OG1	2.65	0.45
5:R:1067:ASN:ND2	5:R:1069:ASP:HB2	2.31	0.45
5:R:1090:PRO:HD3	5:R:1093:SER:OG	2.16	0.45
5:R:1285:HIS:C	5:R:1285:HIS:ND1	2.70	0.45
8:U:694:ASP:OD2	8:U:698:GLN:NE2	2.37	0.45
8:U:821:ILE:HD13	8:U:821:ILE:O	2.16	0.45
6:V:456:ARG:NH1	1:Z:25:LEU:HD12	2.31	0.45
7:W:358:LEU:HD22	8:X:662:ILE:CD1	2.41	0.45
7:W:404:ARG:CG	8:X:704:GLN:NE2	2.79	0.45
1:Z:390:LEU:HD21	1:Z:416:GLY:HA2	1.96	0.45
1:Z:555:GLU:HA	1:Z:607:ARG:HH21	1.81	0.45
1:A:469:TYR:HB3	1:A:473:ARG:HB2	1.97	0.45
3:D:111:LEU:HD22	3:D:775:LEU:HD21	1.97	0.45
3:D:437:VAL:HA	3:D:446:LEU:O	2.16	0.45
3:D:665:ASN:CG	3:D:666:PRO:HD3	2.37	0.45
4:E:227:ILE:HD11	4:E:258:ILE:CG2	2.47	0.45
4:E:1020:ILE:HA	4:E:1023:VAL:HG12	1.98	0.45
4:E:1180:GLN:NE2	4:E:1181:THR:O	2.40	0.45
5:F:902:LYS:HE2	7:H:414:LYS:HD2	0.67	0.45
5:F:1157:TRP:O	5:F:1158:THR:C	2.55	0.45
7:H:295:CYS:HA	7:H:298:SER:HB2	1.99	0.45
1:M:137:ASP:HB2	4:Q:1386:LEU:HG	1.98	0.45
3:P:111:LEU:HD22	3:P:775:LEU:HD21	1.97	0.45
3:P:434:LEU:HD22	3:P:447:TYR:HB3	1.99	0.45
3:P:476:VAL:HG13	3:P:488:GLN:HG3	1.99	0.45
3:P:519:THR:HG21	3:P:605:VAL:N	2.31	0.45
3:P:937:SER:HB3	3:P:941:GLN:CB	2.43	0.45
5:R:672:TRP:CD1	5:R:675:LEU:HD22	2.51	0.45
5:R:1617:SER:O	5:R:1617:SER:OG	2.29	0.45
6:V:364:ILE:HG23	7:W:424:ASN:HB3	1.99	0.45
7:W:413:LEU:HG	8:X:749:GLN:HE21	1.80	0.45
7:W:466:LEU:O	7:W:470:ALA:N	2.40	0.45
1:Z:807:LYS:CB	1:Z:836:ASP:O	2.63	0.45
1:A:128:LEU:CB	4:E:1260:TYR:HE2	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:234:ILE:O	3:D:240:LEU:HD12	2.16	0.45
3:D:1140:LYS:HD3	1:N:204:GLU:HG2	1.98	0.45
4:E:1052:LYS:HZ2	4:E:1068:LEU:HD23	1.80	0.45
4:E:1472:SER:HB2	4:E:1475:SER:H	1.81	0.45
5:F:1606:GLN:O	5:F:1610:ALA:CB	2.60	0.45
5:F:1635:ARG:N	5:R:1634:LYS:NZ	2.65	0.45
6:G:289:GLN:OE1	6:J:352:VAL:HG13	2.16	0.45
7:H:470:ALA:O	7:H:474:SER:HB2	2.17	0.45
8:I:795:LYS:HZ3	8:I:795:LYS:CB	2.30	0.45
6:J:380:TYR:CD1	6:J:383:LYS:HD3	2.51	0.45
2:O:229:ASP:CG	2:O:252:LYS:CE	2.85	0.45
2:O:1389:GLY:HA2	4:Q:1331:LEU:CD1	2.45	0.45
3:P:399:SER:O	3:P:407:ALA:HB2	2.17	0.45
4:Q:300:SER:O	4:Q:304:ASN:HB2	2.16	0.45
4:Q:1379:GLU:OE1	4:Q:1383:GLN:NE2	2.50	0.45
5:R:968:ILE:CG2	7:T:392:LEU:HD11	2.36	0.45
5:R:1359:PHE:O	5:R:1359:PHE:CG	2.69	0.45
8:U:793:LEU:HA	8:U:796:ILE:HG13	1.98	0.45
6:V:275:GLN:NE2	6:V:278:GLU:OE1	2.49	0.45
6:V:389:ARG:NH1	6:V:389:ARG:CA	2.79	0.45
6:V:389:ARG:CZ	6:V:389:ARG:C	2.85	0.45
6:V:392:SER:HG	6:V:393:ASP:H	1.65	0.45
7:W:315:LYS:HB2	8:X:670:VAL:HB	1.99	0.45
7:W:447:SER:CB	8:X:751:LEU:CD1	2.94	0.45
1:Z:16:LYS:NZ	1:Z:16:LYS:CA	2.80	0.45
3:D:937:SER:HB3	3:D:941:GLN:CB	2.43	0.45
5:F:359:GLN:CB	5:F:421:ILE:HA	2.47	0.45
5:F:1036:PRO:CB	5:F:1042:ILE:H	2.30	0.45
7:K:315:LYS:HB2	8:L:670:VAL:HB	1.99	0.45
7:K:316:VAL:H	7:K:347:THR:HA	1.81	0.45
8:L:682:ASP:HA	8:L:685:MET:HE2	1.98	0.45
1:N:125:ILE:HD11	5:R:1363:ILE:HG22	1.97	0.45
3:P:170:LYS:NZ	3:P:212:GLN:O	2.37	0.45
3:P:908:SER:O	3:P:911:ASN:HB3	2.17	0.45
4:Q:1421:ILE:HA	4:Q:1424:LEU:HD23	1.99	0.45
5:R:320:GLU:OE2	5:R:351:HIS:ND1	2.50	0.45
5:R:690:GLU:CG	8:U:722:LEU:CG	2.95	0.45
5:R:943:ARG:HB3	5:R:947:LYS:NZ	2.32	0.45
5:R:1435:LYS:HZ1	5:R:1481:LYS:HE3	1.82	0.45
5:R:1635:ARG:HD2	5:R:1635:ARG:HA	1.55	0.45
6:V:319:GLU:CA	6:V:322:THR:HG22	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:430:GLY:C	7:W:432:ALA:H	2.20	0.45
7:W:509:ILE:CG2	1:Z:12:SER:HG	2.25	0.45
8:X:802:ASP:O	8:X:806:SER:CB	2.65	0.45
1:Z:658:ASN:O	1:Z:662:SER:HB2	2.17	0.45
1:A:123:MET:CB	6:J:413:ASN:CB	2.95	0.45
1:A:675:VAL:HA	1:A:684:ASN:HD21	1.81	0.45
1:A:739:MET:SD	1:A:778:THR:OG1	2.63	0.45
3:D:476:VAL:HG13	3:D:488:GLN:HG3	1.99	0.45
3:D:763:ASP:O	3:D:765:ILE:HG12	2.17	0.45
3:D:908:SER:O	3:D:911:ASN:HB3	2.17	0.45
4:E:772:THR:HA	4:E:775:PHE:HB2	1.99	0.45
5:F:253:LYS:NZ	5:F:257:SER:OG	2.44	0.45
5:F:334:GLN:HG2	5:F:860:ASN:HD21	1.73	0.45
5:F:1080:LEU:HG	5:F:1156:TYR:CD2	2.45	0.45
7:H:527:LEU:C	7:H:527:LEU:CD2	2.85	0.45
6:J:433:LYS:CA	7:K:499:GLY:HA2	2.45	0.45
7:K:404:ARG:CG	8:L:704:GLN:NE2	2.79	0.45
7:K:426:GLY:CA	8:L:738:ASP:HB3	2.45	0.45
1:M:210:GLU:OE2	1:M:214:ASN:ND2	2.49	0.45
1:M:679:ASP:HB3	1:M:684:ASN:HB2	1.99	0.45
1:M:749:ASP:HB2	2:O:1274:LYS:HZ3	1.80	0.45
3:P:100:PRO:HG2	3:P:898:LYS:NZ	2.32	0.45
3:P:495:PHE:O	3:P:499:LEU:HG	2.16	0.45
3:P:617:ALA:HB1	3:P:782:ARG:HH22	1.82	0.45
4:Q:772:THR:HA	4:Q:775:PHE:HB2	1.99	0.45
5:R:148:PHE:HA	5:R:151:ILE:HG12	1.99	0.45
5:R:1084:LEU:CB	5:R:1156:TYR:CE1	3.00	0.45
5:R:1110:MET:CE	5:R:1157:TRP:HZ2	2.29	0.45
7:T:386:LEU:HG	8:U:690:GLN:HE21	1.81	0.45
7:T:455:LYS:O	7:T:459:LEU:HB2	2.17	0.45
6:V:277:ILE:HG12	8:X:641:VAL:HG22	1.99	0.45
6:V:372:PHE:O	6:V:372:PHE:CD1	2.70	0.45
6:V:402:ASP:C	6:V:404:ASP:N	2.69	0.45
1:A:195:SER:OG	1:A:536:ASN:OD1	2.34	0.45
1:A:654:ILE:HG13	1:A:706:ILE:HG21	1.98	0.45
3:D:716:VAL:HB	3:D:885:ALA:HB1	1.99	0.45
4:E:53:GLU:HB2	4:E:140:LYS:HD2	1.98	0.45
4:E:300:SER:O	4:E:304:ASN:HB2	2.16	0.45
4:E:755:ASN:CB	5:F:1376:THR:OG1	2.65	0.45
4:E:982:ILE:HD12	4:E:982:ILE:N	2.31	0.45
4:E:1379:GLU:OE1	4:E:1383:GLN:NE2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:320:GLU:OE2	5:F:351:HIS:ND1	2.50	0.45
5:F:1285:HIS:O	5:F:1285:HIS:CG	2.70	0.45
5:F:1363:ILE:HG22	1:Z:125:ILE:HD12	1.91	0.45
5:F:1495:THR:HA	5:F:1498:LEU:HB2	1.97	0.45
7:H:451:ALA:O	7:H:455:LYS:N	2.45	0.45
6:J:405:LEU:HD13	7:K:470:ALA:N	2.30	0.45
1:N:831:THR:HA	1:N:834:ASN:HB2	1.98	0.45
3:P:149:GLU:OE2	3:P:653:ARG:NH1	2.37	0.45
3:P:585:ILE:O	3:P:589:HIS:HB2	2.17	0.45
4:Q:1472:SER:HB2	4:Q:1475:SER:H	1.81	0.45
5:R:98:THR:HG22	5:R:99:ALA:H	1.81	0.45
5:R:159:LYS:HA	5:R:159:LYS:HD3	1.82	0.45
5:R:359:GLN:CB	5:R:421:ILE:HA	2.47	0.45
5:R:547:PHE:HE2	5:R:619:VAL:HG11	1.82	0.45
5:R:623:VAL:HG11	5:R:626:ASP:HB2	1.97	0.45
5:R:1068:ILE:CD1	5:R:1150:PHE:CE2	3.00	0.45
5:R:1166:HIS:C	5:R:1166:HIS:ND1	2.70	0.45
5:R:1193:ARG:HA	5:R:1193:ARG:HD3	1.85	0.45
5:R:1673:LEU:O	5:R:1676:LEU:N	2.49	0.45
6:S:289:GLN:CD	6:V:352:VAL:HG22	2.32	0.45
7:W:515:ASN:HD22	1:Z:20:LYS:HZ1	1.64	0.45
1:Z:661:LEU:HA	1:Z:664:THR:HG22	1.99	0.45
3:D:100:PRO:HG2	3:D:898:LYS:NZ	2.32	0.45
3:D:641:VAL:HB	3:D:648:GLU:CG	2.45	0.45
3:D:873:SER:OG	3:D:877:VAL:HB	2.17	0.45
3:D:1000:ASP:OD1	3:D:1000:ASP:N	2.49	0.45
4:E:258:ILE:HA	4:E:261:ILE:CD1	2.47	0.45
4:E:624:THR:HG23	4:E:632:ALA:HB2	1.97	0.45
4:E:696:GLY:HA2	5:F:1383:GLN:CB	2.47	0.45
5:F:159:LYS:HE3	5:F:363:ASP:CB	2.45	0.45
5:F:365:LYS:HA	5:F:369:GLN:CB	2.47	0.45
5:F:1472:GLU:OE2	5:F:1473:ASN:ND2	2.50	0.45
7:H:412:ILE:CA	7:H:415:LEU:HB2	2.42	0.45
8:I:794:ILE:HA	8:I:797:LEU:CD1	2.46	0.45
6:J:284:ILE:O	6:J:288:VAL:HG23	2.17	0.45
6:J:384:LEU:C	6:J:384:LEU:CD2	2.85	0.45
6:J:405:LEU:HD23	6:J:405:LEU:C	2.37	0.45
6:J:406:PHE:O	6:J:406:PHE:HD1	1.99	0.45
1:M:833:ILE:HD13	1:M:833:ILE:HA	1.77	0.45
1:N:88:LYS:HE2	8:U:805:ARG:CB	2.47	0.45
1:N:196:ASN:HD21	1:N:530:ARG:NE	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:658:ASN:O	1:N:662:SER:HB2	2.17	0.45
3:P:234:ILE:O	3:P:240:LEU:HD12	2.16	0.45
5:R:1227:THR:HA	7:T:472:ASN:CB	2.47	0.45
6:S:427:GLU:HB3	8:U:779:THR:HG21	1.99	0.45
8:U:778:LYS:C	8:U:778:LYS:CD	2.85	0.45
6:V:334:SER:C	6:V:336:PHE:H	2.15	0.45
6:V:377:ILE:HG22	6:V:378:HIS:CD2	2.47	0.45
6:V:389:ARG:NH1	6:V:389:ARG:C	2.71	0.45
6:V:389:ARG:NH1	6:V:392:SER:OG	2.49	0.45
7:W:355:PHE:CD1	7:W:358:LEU:HD12	2.45	0.45
1:Z:54:PHE:HA	1:Z:57:ARG:CZ	2.47	0.45
1:Z:239:ILE:HD12	1:Z:258:LYS:HD3	1.99	0.45
1:A:137:ASP:HB2	4:E:1386:LEU:HG	1.98	0.44
1:A:775:LEU:HD22	1:A:832:LEU:HD11	1.99	0.44
3:D:929:PHE:HA	3:D:932:ILE:HG22	1.99	0.44
4:E:1395:ILE:HD12	4:E:1398:VAL:HB	2.00	0.44
5:F:792:ASP:OD2	5:F:1244:ASN:ND2	2.43	0.44
5:F:1359:PHE:O	5:F:1359:PHE:CG	2.69	0.44
8:I:655:PHE:O	8:I:659:THR:OG1	2.27	0.44
8:I:685:MET:O	8:I:688:HIS:ND1	2.45	0.44
6:J:286:LYS:O	6:J:290:ILE:HG12	2.18	0.44
6:J:300:ASP:O	6:J:304:LEU:HD13	2.17	0.44
6:J:372:PHE:O	6:J:372:PHE:CD1	2.69	0.44
3:P:430:GLU:OE2	3:P:528:PRO:HA	2.16	0.44
3:P:527:SER:HB2	3:P:614:LEU:HD22	1.99	0.44
4:Q:22:MET:HA	4:Q:26:ALA:HB3	1.99	0.44
5:R:378:ALA:O	5:R:383:ASN:OD1	2.35	0.44
5:R:389:LEU:C	5:R:389:LEU:CD1	2.85	0.44
5:R:935:GLN:C	5:R:937:LEU:N	2.71	0.44
5:R:1282:ALA:O	5:R:1286:PHE:N	2.47	0.44
5:R:1634:LYS:O	5:R:1638:ILE:N	2.34	0.44
8:U:822:LYS:HE3	8:U:822:LYS:CA	2.44	0.44
6:V:404:ASP:C	6:V:406:PHE:H	2.21	0.44
7:W:508:LYS:HZ2	1:Z:15:SER:HG	1.60	0.44
1:Z:122:LEU:HD23	1:Z:122:LEU:HA	1.73	0.44
1:A:32:LEU:C	1:A:32:LEU:CD2	2.86	0.44
1:A:54:PHE:HA	1:A:57:ARG:CD	2.47	0.44
1:A:589:LEU:O	1:A:604:ILE:HG22	2.17	0.44
5:F:351:HIS:O	5:F:351:HIS:CG	2.70	0.44
5:F:378:ALA:O	5:F:383:ASN:OD1	2.35	0.44
5:F:588:ASN:HB3	5:F:768:VAL:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:900:LEU:C	5:F:900:LEU:CD1	2.82	0.44
5:F:1068:ILE:CD1	5:F:1150:PHE:CE2	3.00	0.44
5:F:1084:LEU:CB	5:F:1156:TYR:CZ	3.00	0.44
5:F:1166:HIS:ND1	5:F:1166:HIS:C	2.70	0.44
5:F:1634:LYS:NZ	5:R:1635:ARG:N	2.66	0.44
8:L:638:ASP:HA	8:L:641:VAL:HG23	1.99	0.44
1:M:212:PHE:CE2	1:M:541:TYR:CZ	3.05	0.44
1:N:54:PHE:HA	1:N:57:ARG:CZ	2.47	0.44
1:N:542:THR:HG21	1:N:557:LEU:HD21	1.99	0.44
1:N:807:LYS:CB	1:N:836:ASP:O	2.63	0.44
3:P:789:VAL:HG21	3:P:952:LEU:CD1	2.47	0.44
3:P:1494:ASN:N	5:R:1471:LYS:HE2	2.32	0.44
4:Q:1038:LYS:HA	4:Q:1038:LYS:HD2	1.79	0.44
4:Q:1359:ILE:HD12	4:Q:1430:LEU:HD23	2.00	0.44
5:R:334:GLN:HB3	5:R:860:ASN:CG	2.37	0.44
5:R:1084:LEU:CB	5:R:1156:TYR:CZ	3.00	0.44
5:R:1439:GLU:O	5:R:1443:ASN:N	2.34	0.44
6:V:371:LYS:NZ	6:V:371:LYS:C	2.70	0.44
7:W:508:LYS:CE	1:Z:16:LYS:HB2	2.47	0.44
3:D:123:GLU:HG2	3:D:124:ARG:H	1.82	0.44
3:D:878:ILE:HG22	3:D:879:ASP:H	1.83	0.44
3:D:936:VAL:O	3:D:936:VAL:HG12	2.18	0.44
3:D:1494:ASN:N	5:F:1471:LYS:HE2	2.32	0.44
5:F:1110:MET:CE	5:F:1157:TRP:HZ2	2.29	0.44
5:F:1191:SER:HB3	5:F:1192:VAL:H	1.51	0.44
5:F:1219:VAL:O	5:F:1221:LEU:N	2.44	0.44
5:F:1305:SER:C	5:F:1307:VAL:N	2.69	0.44
5:F:1359:PHE:CE1	5:F:1363:ILE:CG2	3.00	0.44
6:J:406:PHE:CD1	6:J:406:PHE:O	2.71	0.44
8:L:802:ASP:O	8:L:806:SER:CB	2.65	0.44
1:M:123:MET:CB	6:V:413:ASN:CB	2.95	0.44
1:M:140:ILE:CG2	4:Q:1393:LYS:CE	2.94	0.44
3:P:929:PHE:HA	3:P:932:ILE:HG22	1.99	0.44
5:R:148:PHE:HE2	5:R:216:LEU:HD11	1.83	0.44
5:R:662:PRO:HA	5:R:668:ARG:HE	1.83	0.44
5:R:1026:PHE:HD2	5:R:1034:LEU:HD11	1.83	0.44
6:S:297:ASP:HA	6:S:300:ASP:HB2	1.99	0.44
7:T:415:LEU:HD12	7:T:415:LEU:HA	1.79	0.44
1:Z:542:THR:HG21	1:Z:557:LEU:HD21	1.99	0.44
1:Z:637:ILE:O	1:Z:640:SER:OG	2.29	0.44
1:A:32:LEU:CD1	1:N:22:LEU:HD22	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:PHE:CE2	1:A:541:TYR:CZ	3.06	0.44
3:D:399:SER:O	3:D:407:ALA:HB2	2.17	0.44
3:D:445:ARG:NH1	3:D:466:LYS:HB3	2.32	0.44
4:E:429:LYS:HA	4:E:429:LYS:HD2	1.80	0.44
4:E:495:ASP:HB2	4:E:529:LYS:HG3	1.99	0.44
4:E:1356:LEU:CB	1:Z:453:VAL:CG2	2.94	0.44
5:F:690:GLU:CG	8:I:722:LEU:CG	2.95	0.44
5:F:905:SER:CB	8:I:753:GLU:HB2	2.48	0.44
5:F:1026:PHE:HD2	5:F:1034:LEU:HD11	1.83	0.44
5:F:1084:LEU:CB	5:F:1156:TYR:CE1	3.00	0.44
7:K:444:LEU:CA	7:K:447:SER:CB	2.95	0.44
1:M:333:ILE:HG13	1:M:334:TRP:N	2.33	0.44
1:N:505:HIS:HA	1:N:508:ILE:HD12	2.00	0.44
3:P:353:GLN:HG2	3:P:374:LYS:H	1.82	0.44
4:Q:598:VAL:HG11	4:Q:638:ILE:HD11	2.00	0.44
5:R:676:ASP:HA	5:R:679:ILE:HB	1.99	0.44
5:R:1118:ARG:NH1	5:R:1118:ARG:CG	2.80	0.44
5:R:1283:LYS:HA	5:R:1283:LYS:HD3	1.61	0.44
5:R:1363:ILE:C	5:R:1363:ILE:CD1	2.85	0.44
7:T:314:ASN:HB2	7:T:361:ARG:HH22	1.81	0.44
8:X:637:LEU:O	8:X:641:VAL:HG23	2.18	0.44
1:Z:757:ALA:HA	1:Z:820:ILE:CB	2.47	0.44
1:A:125:ILE:CB	4:E:1212:THR:OG1	2.65	0.44
1:A:644:TYR:O	1:A:648:GLU:N	2.51	0.44
3:D:617:ALA:HB1	3:D:782:ARG:HH22	1.82	0.44
4:E:22:MET:HA	4:E:26:ALA:HB3	1.99	0.44
4:E:806:PHE:HE2	4:E:854:LEU:HD21	1.82	0.44
4:E:1421:ILE:HA	4:E:1424:LEU:HD23	1.99	0.44
5:F:148:PHE:HA	5:F:151:ILE:HG12	1.99	0.44
5:F:452:LYS:HA	5:F:452:LYS:HD2	1.70	0.44
5:F:616:VAL:O	5:F:620:THR:OG1	2.24	0.44
5:F:841:PHE:HE2	5:F:918:PHE:CE1	2.22	0.44
5:F:1623:VAL:HA	5:F:1626:VAL:HG22	2.00	0.44
6:G:451:MET:HE3	1:M:14:THR:CB	2.44	0.44
7:K:395:ALA:O	7:K:399:LEU:HB3	2.17	0.44
1:M:619:PHE:O	1:M:623:ILE:HG22	2.18	0.44
3:P:235:SER:CB	3:P:240:LEU:HD13	2.45	0.44
3:P:412:ILE:HG13	3:P:413:LEU:CD1	2.44	0.44
3:P:445:ARG:NH1	3:P:466:LYS:HB3	2.32	0.44
3:P:615:PHE:CE2	3:P:627:GLU:HG2	2.52	0.44
3:P:799:THR:HG23	3:P:803:PHE:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:830:SER:CB	3:P:934:SER:HB3	2.38	0.44
3:P:986:THR:C	3:P:988:LEU:H	2.20	0.44
4:Q:806:PHE:HE2	4:Q:854:LEU:HD21	1.82	0.44
4:Q:955:PHE:O	4:Q:959:LEU:HB2	2.17	0.44
4:Q:1022:TYR:CD2	4:Q:1026:THR:HG22	2.38	0.44
4:Q:1122:PHE:HA	4:Q:1125:GLU:HG2	1.99	0.44
5:R:48:ARG:NH1	5:R:85:GLU:OE2	2.47	0.44
5:R:365:LYS:HA	5:R:369:GLN:CB	2.47	0.44
5:R:680:PHE:HA	5:R:745:ARG:HH12	1.83	0.44
5:R:881:THR:HA	5:R:885:GLU:HB3	2.00	0.44
5:R:1191:SER:HB3	5:R:1192:VAL:H	1.51	0.44
7:W:315:LYS:CD	7:W:347:THR:HG22	2.48	0.44
7:W:395:ALA:O	7:W:399:LEU:HB3	2.17	0.44
1:A:760:PHE:HD2	1:A:823:ARG:HH11	1.66	0.44
3:D:527:SER:HB2	3:D:614:LEU:HD22	1.99	0.44
5:F:943:ARG:HB3	5:F:947:LYS:NZ	2.32	0.44
5:F:1026:PHE:HE1	5:F:1049:LEU:HD11	1.83	0.44
5:F:1068:ILE:HD12	5:F:1150:PHE:HD2	1.52	0.44
5:F:1138:PHE:C	5:F:1140:GLU:H	2.21	0.44
6:G:289:GLN:CD	6:J:352:VAL:HG22	2.32	0.44
7:H:313:TYR:HD1	7:H:349:PRO:HB3	1.82	0.44
6:J:364:ILE:HG23	7:K:424:ASN:HB3	1.99	0.44
1:M:253:LEU:HG	1:M:257:TRP:CD1	2.53	0.44
1:N:822:TYR:HB3	1:N:824:MET:CE	2.48	0.44
3:P:445:ARG:O	3:P:465:ILE:HA	2.18	0.44
3:P:781:LEU:HD11	3:P:903:ILE:HG21	2.00	0.44
3:P:936:VAL:HG12	3:P:936:VAL:O	2.18	0.44
4:Q:23:ASN:HD22	4:Q:838:LYS:HD2	1.81	0.44
4:Q:119:ASN:OD1	4:Q:119:ASN:N	2.50	0.44
4:Q:216:TYR:CD1	4:Q:220:PHE:HB2	2.51	0.44
4:Q:696:GLY:HA2	5:R:1383:GLN:CB	2.47	0.44
4:Q:773:LEU:O	4:Q:773:LEU:HD22	2.17	0.44
5:R:56:ILE:HG13	5:R:66:VAL:HG21	1.99	0.44
5:R:300:MET:HG3	5:R:303:LYS:HE2	2.00	0.44
5:R:672:TRP:CE2	5:R:716:LEU:HD12	2.53	0.44
5:R:920:ILE:CG2	5:R:926:LEU:HG	2.48	0.44
5:R:1472:GLU:OE2	5:R:1473:ASN:ND2	2.50	0.44
1:A:30:ASP:OD1	1:A:30:ASP:N	2.49	0.44
1:A:193:LEU:CD1	1:A:578:GLU:HG3	2.48	0.44
3:D:445:ARG:O	3:D:465:ILE:HA	2.18	0.44
3:D:585:ILE:O	3:D:589:HIS:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:608:ILE:CD1	3:D:641:VAL:HG13	2.48	0.44
3:D:615:PHE:CE2	3:D:627:GLU:HG2	2.52	0.44
4:E:793:LEU:HD23	4:E:793:LEU:HA	1.77	0.44
4:E:1087:TYR:HB2	4:E:1213:THR:HG21	2.00	0.44
4:E:1134:TRP:NE1	4:E:1170:ASP:OD2	2.41	0.44
4:E:1276:LYS:HD2	4:E:1276:LYS:HA	1.71	0.44
4:E:1305:ASN:OD1	4:E:1305:ASN:N	2.51	0.44
4:E:1475:SER:HA	4:E:1478:ILE:HD12	2.00	0.44
5:F:56:ILE:HG13	5:F:66:VAL:HG21	1.99	0.44
5:F:547:PHE:HE2	5:F:619:VAL:HG11	1.82	0.44
5:F:663:LYS:HA	5:F:720:HIS:CE1	2.53	0.44
5:F:881:THR:HA	5:F:885:GLU:HB3	2.00	0.44
5:F:935:GLN:C	5:F:937:LEU:N	2.71	0.44
5:F:1543:LEU:HD12	5:F:1543:LEU:O	2.18	0.44
6:G:427:GLU:HB3	8:I:779:THR:HG21	1.99	0.44
8:I:778:LYS:C	8:I:778:LYS:CD	2.85	0.44
8:I:795:LYS:HZ3	8:I:795:LYS:HB2	1.82	0.44
6:J:389:ARG:CZ	6:J:389:ARG:C	2.85	0.44
7:K:315:LYS:CD	7:K:347:THR:HG22	2.48	0.44
7:K:413:LEU:HD21	8:L:749:GLN:HB3	2.00	0.44
1:M:227:GLN:NE2	1:M:606:GLU:O	2.50	0.44
1:M:775:LEU:HD22	1:M:832:LEU:HD11	1.99	0.44
1:N:661:LEU:HA	1:N:664:THR:HG22	2.00	0.44
2:O:899:ALA:HB3	2:O:941:ASN:HD22	1.83	0.44
3:P:763:ASP:O	3:P:765:ILE:HG12	2.17	0.44
4:Q:1043:LEU:HB3	4:Q:1078:ILE:HD11	2.00	0.44
4:Q:1430:LEU:O	4:Q:1432:ARG:NH1	2.51	0.44
7:T:295:CYS:HA	7:T:298:SER:HB2	1.99	0.44
7:T:470:ALA:O	7:T:474:SER:HB2	2.17	0.44
8:U:788:ASP:OD1	8:U:788:ASP:N	2.49	0.44
7:W:444:LEU:CA	7:W:447:SER:CB	2.95	0.44
1:Z:357:LYS:HA	1:Z:360:ILE:HB	2.00	0.44
1:Z:391:HIS:HE2	1:Z:417:ARG:HB3	1.82	0.44
1:Z:766:ASN:O	1:Z:769:LYS:N	2.50	0.44
1:Z:822:TYR:HB3	1:Z:824:MET:CE	2.48	0.44
1:A:128:LEU:CB	4:E:1260:TYR:CE2	3.00	0.44
1:A:333:ILE:HG13	1:A:334:TRP:N	2.33	0.44
4:E:683:ASP:OD1	4:E:689:GLY:N	2.36	0.44
4:E:955:PHE:O	4:E:959:LEU:HB2	2.17	0.44
4:E:1359:ILE:HD12	4:E:1430:LEU:HD23	2.00	0.44
5:F:1490:ARG:HE	5:F:1493:LYS:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:436:LEU:CD1	7:H:503:ASN:CB	2.96	0.44
6:G:447:PHE:CE2	1:M:14:THR:HB	2.53	0.44
6:J:277:ILE:HG12	8:L:641:VAL:HG22	1.99	0.44
1:M:644:TYR:O	1:M:648:GLU:N	2.51	0.44
1:N:474:PHE:HB3	1:N:477:TYR:HB3	2.00	0.44
3:P:608:ILE:CD1	3:P:641:VAL:HG13	2.48	0.44
3:P:878:ILE:HG22	3:P:879:ASP:H	1.83	0.44
4:Q:320:MET:O	4:Q:324:SER:OG	2.23	0.44
4:Q:912:TRP:CD1	4:Q:917:PRO:HD3	2.52	0.44
4:Q:1020:ILE:HA	4:Q:1023:VAL:HG12	1.99	0.44
4:Q:1052:LYS:HZ2	4:Q:1068:LEU:HD23	1.82	0.44
5:R:663:LYS:HA	5:R:720:HIS:CE1	2.53	0.44
5:R:900:LEU:HD13	5:R:904:TYR:CD1	2.53	0.44
5:R:1543:LEU:HD12	5:R:1543:LEU:O	2.18	0.44
7:T:303:THR:HG23	7:T:353:TYR:CZ	2.53	0.44
7:T:313:TYR:HD1	7:T:349:PRO:HB3	1.82	0.44
8:U:795:LYS:C	8:U:795:LYS:CD	2.85	0.44
6:V:284:ILE:O	6:V:288:VAL:HG23	2.17	0.44
6:V:406:PHE:CD1	6:V:406:PHE:O	2.71	0.44
8:X:637:LEU:CD2	8:X:640:LEU:HB2	2.48	0.44
1:Z:116:LYS:HZ3	1:Z:116:LYS:C	2.21	0.44
1:A:436:LEU:HD21	1:A:481:THR:HG23	2.00	0.44
1:A:628:ALA:HB1	1:A:644:TYR:CE2	2.53	0.44
3:D:986:THR:C	3:D:988:LEU:H	2.20	0.44
4:E:1122:PHE:HA	4:E:1125:GLU:HG2	1.99	0.44
5:F:200:LEU:HA	5:F:200:LEU:HD13	1.79	0.44
5:F:334:GLN:HB3	5:F:860:ASN:CG	2.37	0.44
5:F:389:LEU:C	5:F:389:LEU:CD1	2.86	0.44
5:F:1617:SER:O	5:F:1617:SER:OG	2.28	0.44
6:J:383:LYS:CD	8:L:756:ASN:CG	2.85	0.44
6:J:406:PHE:HB2	7:K:469:ARG:NH2	2.33	0.44
8:L:637:LEU:O	8:L:641:VAL:HG23	2.18	0.44
1:M:735:THR:O	1:M:739:MET:HG2	2.18	0.44
3:P:214:VAL:HA	3:P:233:LEU:O	2.18	0.44
3:P:394:GLU:O	3:P:398:ILE:HG13	2.18	0.44
4:Q:40:ILE:HD12	4:Q:40:ILE:HA	1.90	0.44
4:Q:1087:TYR:HB2	4:Q:1213:THR:HG21	2.00	0.44
5:R:426:GLN:HA	5:R:429:GLU:HG3	2.00	0.44
5:R:1406:TYR:OH	5:R:1444:ASP:OD2	2.33	0.44
7:T:431:ILE:H	7:T:431:ILE:HG13	1.57	0.44
8:X:749:GLN:NE2	8:X:752:ASP:OD2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:196:ASN:HD21	1:Z:530:ARG:NE	2.13	0.44
1:A:227:GLN:NE2	1:A:606:GLU:O	2.50	0.43
1:A:341:LEU:HD21	1:A:371:PHE:CZ	2.53	0.43
3:D:401:ILE:CG2	3:D:462:LEU:HB3	2.30	0.43
4:E:119:ASN:N	4:E:119:ASN:OD1	2.51	0.43
4:E:254:SER:OG	5:F:1191:SER:HA	2.17	0.43
4:E:605:LYS:O	4:E:605:LYS:NZ	2.37	0.43
5:F:148:PHE:HE2	5:F:216:LEU:HD11	1.83	0.43
5:F:1363:ILE:HG22	1:Z:125:ILE:HD11	1.97	0.43
7:H:303:THR:HG23	7:H:353:TYR:CZ	2.53	0.43
6:J:372:PHE:CD2	6:J:372:PHE:C	2.89	0.43
1:M:125:ILE:CB	4:Q:1212:THR:OG1	2.65	0.43
1:M:128:LEU:CB	4:Q:1260:TYR:CE2	3.00	0.43
1:M:591:GLY:HA3	1:M:600:ILE:O	2.18	0.43
1:M:621:HIS:ND1	1:M:625:GLU:OE2	2.32	0.43
1:M:628:ALA:HB1	1:M:644:TYR:CE2	2.53	0.43
1:M:709:LYS:O	1:M:713:ILE:HG12	2.18	0.43
1:N:239:ILE:HD12	1:N:258:LYS:HD3	1.99	0.43
3:P:605:VAL:HG11	3:P:608:ILE:HD11	2.00	0.43
3:P:648:GLU:HG3	3:P:650:TYR:HE1	1.83	0.43
5:R:285:PHE:O	5:R:289:CYS:N	2.48	0.43
5:R:659:ASN:OD1	5:R:659:ASN:N	2.51	0.43
5:R:1000:LEU:HA	5:R:1000:LEU:HD13	1.82	0.43
5:R:1623:VAL:HA	5:R:1626:VAL:HG22	2.00	0.43
5:R:1672:MET:O	5:R:1675:THR:OG1	2.29	0.43
6:V:384:LEU:C	6:V:384:LEU:CD2	2.85	0.43
1:Z:56:LEU:HD22	1:Z:60:ASN:ND2	2.32	0.43
1:Z:436:LEU:HD21	1:Z:481:THR:HG23	2.00	0.43
1:Z:807:LYS:C	1:Z:836:ASP:O	2.56	0.43
1:A:591:GLY:HA3	1:A:600:ILE:O	2.18	0.43
1:A:619:PHE:O	1:A:623:ILE:HG22	2.18	0.43
3:D:508:LYS:CG	3:D:516:LEU:HA	2.48	0.43
3:D:713:ILE:HD12	3:D:769:ARG:CD	2.48	0.43
3:D:799:THR:HG23	3:D:803:PHE:O	2.18	0.43
4:E:216:TYR:CD1	4:E:220:PHE:HB2	2.51	0.43
4:E:530:ILE:HA	4:E:552:LEU:O	2.19	0.43
4:E:773:LEU:O	4:E:773:LEU:HD22	2.17	0.43
5:F:659:ASN:N	5:F:659:ASN:OD1	2.51	0.43
5:F:676:ASP:HA	5:F:679:ILE:HB	1.99	0.43
7:H:394:THR:HA	8:I:697:LEU:HD22	2.01	0.43
7:H:455:LYS:O	7:H:459:LEU:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:511:GLU:HA	7:H:514:THR:CB	2.49	0.43
1:M:193:LEU:CD1	1:M:578:GLU:HG3	2.48	0.43
1:M:198:SER:HB3	1:M:543:LYS:HE2	2.01	0.43
1:N:599:ARG:NE	1:N:605:GLU:OE1	2.40	0.43
1:N:599:ARG:HH22	1:N:620:LEU:HD21	1.84	0.43
1:N:757:ALA:HA	1:N:820:ILE:CB	2.47	0.43
1:N:766:ASN:O	1:N:769:LYS:N	2.50	0.43
3:P:331:ILE:O	3:P:334:VAL:HG23	2.18	0.43
3:P:484:GLN:NE2	3:P:566:LYS:H	2.16	0.43
4:Q:319:PRO:HG2	4:Q:361:LYS:HD3	2.00	0.43
4:Q:343:ASP:O	4:Q:347:THR:OG1	2.36	0.43
4:Q:795:ILE:O	4:Q:798:SER:OG	2.29	0.43
4:Q:950:ARG:HG3	4:Q:1012:VAL:HA	2.00	0.43
4:Q:963:LYS:HB2	4:Q:963:LYS:HE3	1.84	0.43
4:Q:976:PHE:HZ	7:W:457:ASN:HB3	1.83	0.43
4:Q:1274:GLU:HA	4:Q:1277:ILE:HD12	1.99	0.43
4:Q:1395:ILE:HD12	4:Q:1398:VAL:HB	2.00	0.43
5:R:253:LYS:NZ	5:R:257:SER:OG	2.44	0.43
5:R:905:SER:CB	8:U:749:GLN:O	2.66	0.43
6:S:343:ASP:O	6:S:347:THR:OG1	2.31	0.43
6:V:286:LYS:O	6:V:290:ILE:HG12	2.17	0.43
6:V:405:LEU:HD13	7:W:470:ALA:N	2.30	0.43
7:W:508:LYS:HE3	1:Z:16:LYS:HB2	1.99	0.43
8:X:809:ASP:HA	8:X:812:THR:HB	2.00	0.43
1:Z:767:ILE:CD1	1:Z:768:VAL:HG23	2.48	0.43
1:Z:771:ILE:CG2	1:Z:772:PRO:CD	2.92	0.43
1:Z:775:LEU:HD22	1:Z:775:LEU:HA	1.64	0.43
1:A:253:LEU:HG	1:A:257:TRP:CD1	2.53	0.43
1:A:771:ILE:HD13	1:A:774:LEU:HD12	2.00	0.43
3:D:235:SER:CB	3:D:240:LEU:HD13	2.45	0.43
3:D:353:GLN:HG2	3:D:374:LYS:H	1.82	0.43
3:D:394:GLU:O	3:D:398:ILE:HG13	2.18	0.43
3:D:568:GLN:NE2	3:D:570:VAL:O	2.52	0.43
4:E:36:GLN:HE22	4:E:943:VAL:HA	1.83	0.43
4:E:1071:LYS:HD3	4:E:1071:LYS:HA	1.83	0.43
4:E:1274:GLU:HA	4:E:1277:ILE:HD12	1.99	0.43
5:F:23:ASP:OD1	5:F:23:ASP:N	2.47	0.43
5:F:583:SER:O	5:F:583:SER:OG	2.28	0.43
5:F:672:TRP:CE2	5:F:716:LEU:HD12	2.53	0.43
5:F:742:GLN:HG3	5:F:747:VAL:HA	2.01	0.43
5:F:1281:LYS:HA	5:F:1281:LYS:HD2	1.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:G:297:ASP:HA	6:G:300:ASP:HB2	2.00	0.43
6:G:350:PHE:HE2	7:H:418:GLN:HE22	1.63	0.43
7:H:386:LEU:HD21	8:I:687:GLU:HA	2.00	0.43
8:I:798:ASN:O	8:I:801:PHE:CB	2.66	0.43
8:L:667:GLN:O	8:L:670:VAL:HG22	2.18	0.43
1:M:54:PHE:HA	1:M:57:ARG:CD	2.47	0.43
1:M:222:PHE:HD1	1:M:232:PHE:HB3	1.83	0.43
1:N:453:VAL:CG2	4:Q:1356:LEU:CB	2.94	0.43
1:N:792:SER:OG	1:N:799:LYS:NZ	2.43	0.43
4:Q:495:ASP:HB2	4:Q:529:LYS:HG3	1.99	0.43
5:R:131:TYR:O	5:R:135:ILE:HG12	2.19	0.43
5:R:213:ILE:HB	5:R:240:LEU:HD13	2.00	0.43
5:R:905:SER:CB	8:U:753:GLU:HB2	2.48	0.43
5:R:1490:ARG:HE	5:R:1493:LYS:HB3	1.83	0.43
5:R:1606:GLN:O	5:R:1610:ALA:CB	2.60	0.43
6:S:436:LEU:CD1	7:T:503:ASN:CB	2.96	0.43
7:T:511:GLU:HA	7:T:514:THR:CB	2.48	0.43
8:U:795:LYS:HA	8:U:795:LYS:HZ3	1.82	0.43
6:V:372:PHE:CD2	6:V:372:PHE:C	2.89	0.43
6:V:389:ARG:CZ	6:V:389:ARG:HB3	2.44	0.43
7:W:437:TRP:HB3	8:X:744:ALA:HB3	2.00	0.43
1:Z:116:LYS:HZ3	1:Z:116:LYS:CB	2.21	0.43
1:A:137:ASP:OD2	4:E:1386:LEU:HG	2.16	0.43
1:A:735:THR:O	1:A:739:MET:HG2	2.18	0.43
3:D:735:SER:O	3:D:739:THR:OG1	2.32	0.43
3:D:909:PHE:O	3:D:913:LEU:HG	2.19	0.43
3:D:1140:LYS:HZ1	1:N:204:GLU:CA	2.06	0.43
4:E:950:ARG:HG3	4:E:1012:VAL:HA	2.00	0.43
5:F:213:ILE:HB	5:F:240:LEU:HD13	2.01	0.43
5:F:1283:LYS:HA	5:F:1283:LYS:NZ	2.34	0.43
5:F:1286:PHE:O	5:F:1286:PHE:CD1	2.70	0.43
8:I:731:GLY:C	8:I:733:ALA:N	2.71	0.43
1:M:225:SER:O	1:M:229:ASN:N	2.51	0.43
1:M:436:LEU:HD21	1:M:481:THR:HG23	2.00	0.43
1:N:78:LEU:HB3	1:N:83:VAL:CG2	2.48	0.43
1:N:510:LEU:HB3	1:N:516:PHE:HB2	2.00	0.43
3:P:123:GLU:HG2	3:P:124:ARG:H	1.82	0.43
3:P:430:GLU:OE1	3:P:528:PRO:HD3	2.18	0.43
4:Q:36:GLN:HE22	4:Q:943:VAL:HA	1.83	0.43
4:Q:305:ASP:O	4:Q:309:ASN:CB	2.67	0.43
4:Q:1408:LEU:HD21	4:Q:1456:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:351:HIS:CG	5:R:351:HIS:O	2.70	0.43
5:R:421:ILE:C	5:R:423:LEU:N	2.72	0.43
5:R:925:HIS:HA	5:R:928:LEU:HD11	2.00	0.43
5:R:1309:LEU:C	5:R:1309:LEU:CD2	2.86	0.43
7:T:420:ALA:CB	8:U:745:TYR:HE1	2.18	0.43
8:U:798:ASN:O	8:U:801:PHE:CB	2.66	0.43
6:V:298:THR:HA	8:X:658:TYR:CE1	2.54	0.43
6:V:398:VAL:HG21	7:W:466:LEU:CD1	2.36	0.43
6:V:406:PHE:HB2	7:W:469:ARG:NH2	2.33	0.43
6:V:431:GLN:O	8:X:782:ILE:HA	2.19	0.43
8:X:664:SER:O	8:X:668:VAL:HG23	2.18	0.43
8:X:695:GLN:NE2	8:X:696:SER:OG	2.51	0.43
8:X:816:LYS:HA	8:X:816:LYS:HD2	1.83	0.43
1:Z:786:ILE:HD11	1:Z:838:SER:HA	2.01	0.43
1:A:222:PHE:HD1	1:A:232:PHE:HB3	1.83	0.43
2:C:79:HIS:CE1	2:C:704:VAL:HG11	2.54	0.43
3:D:331:ILE:O	3:D:334:VAL:HG23	2.18	0.43
5:F:662:PRO:HA	5:F:668:ARG:HE	1.83	0.43
5:F:726:SER:HA	5:F:730:VAL:HG22	2.01	0.43
5:F:1227:THR:HA	7:H:472:ASN:CB	2.47	0.43
6:J:372:PHE:O	6:J:372:PHE:CG	2.70	0.43
6:J:379:LEU:HG	6:J:379:LEU:O	2.19	0.43
6:J:395:GLU:HA	6:J:398:VAL:HG22	2.01	0.43
7:K:385:GLN:HA	7:K:385:GLN:NE2	2.23	0.43
7:K:395:ALA:O	7:K:399:LEU:HD23	2.19	0.43
7:K:430:GLY:C	7:K:432:ALA:H	2.20	0.43
1:M:516:PHE:CE2	1:M:534:PHE:HB2	2.54	0.43
1:N:767:ILE:CD1	1:N:768:VAL:HG23	2.48	0.43
1:N:807:LYS:CB	1:N:837:VAL:C	2.84	0.43
3:P:568:GLN:NE2	3:P:570:VAL:O	2.52	0.43
3:P:716:VAL:HB	3:P:885:ALA:HB1	1.99	0.43
4:Q:787:PRO:HG2	4:Q:1143:GLN:HE21	1.84	0.43
5:R:783:ILE:HG13	5:R:784:ILE:H	1.83	0.43
5:R:935:GLN:CB	5:R:998:LEU:CD2	2.97	0.43
5:R:1227:THR:CB	7:T:475:SER:HG	2.14	0.43
7:T:380:LEU:O	7:T:384:THR:OG1	2.25	0.43
7:W:483:VAL:CB	7:W:494:MET:HA	2.49	0.43
8:X:733:ALA:HA	8:X:737:ASN:HD21	1.84	0.43
1:Z:505:HIS:HA	1:Z:508:ILE:HD12	2.00	0.43
1:A:198:SER:HB3	1:A:543:LYS:HE2	2.01	0.43
3:D:118:THR:HB	3:D:623:GLY:CA	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:214:VAL:HA	3:D:233:LEU:O	2.19	0.43
3:D:1467:SER:CA	1:Z:621:HIS:CE1	3.02	0.43
4:E:1430:LEU:O	4:E:1432:ARG:NH1	2.51	0.43
5:F:227:ASP:CA	5:F:361:LEU:CB	2.97	0.43
5:F:300:MET:HG3	5:F:303:LYS:HE2	2.00	0.43
5:F:421:ILE:C	5:F:423:LEU:N	2.72	0.43
5:F:1257:LEU:HD23	5:F:1257:LEU:HA	1.84	0.43
5:F:1519:LYS:HA	5:F:1522:VAL:HG12	2.00	0.43
5:F:1618:SER:CB	1:Z:634:ASP:O	2.67	0.43
6:G:458:ALA:HB3	1:Z:32:LEU:HD21	2.00	0.43
7:H:298:SER:OG	7:H:305:LYS:O	2.25	0.43
7:H:412:ILE:O	7:H:415:LEU:HB2	2.17	0.43
7:H:508:LYS:HD2	7:H:508:LYS:HA	1.43	0.43
7:K:454:GLY:C	7:K:456:THR:H	2.22	0.43
8:L:809:ASP:HA	8:L:812:THR:HB	2.00	0.43
3:P:508:LYS:CG	3:P:516:LEU:HA	2.49	0.43
3:P:509:PHE:CD1	3:P:515:VAL:HG23	2.54	0.43
3:P:667:LEU:HD12	3:P:669:PHE:HB2	2.00	0.43
3:P:684:PHE:O	3:P:688:LYS:HB2	2.19	0.43
3:P:793:PHE:CZ	3:P:934:SER:HB2	2.54	0.43
5:R:742:GLN:HG3	5:R:747:VAL:HA	2.01	0.43
5:R:841:PHE:CZ	5:R:922:LEU:HB2	2.54	0.43
5:R:909:LEU:O	7:T:403:SER:CB	2.66	0.43
5:R:1285:HIS:O	5:R:1285:HIS:CG	2.70	0.43
8:X:728:THR:OG1	8:X:733:ALA:O	2.33	0.43
1:Z:18:ALA:CA	1:Z:21:LYS:HB3	2.47	0.43
1:Z:138:ASN:C	1:Z:138:ASN:ND2	2.72	0.43
3:D:582:ASP:O	3:D:585:ILE:HG22	2.19	0.43
5:F:159:LYS:HD3	5:F:159:LYS:HA	1.82	0.43
5:F:680:PHE:HA	5:F:745:ARG:HH12	1.83	0.43
5:F:920:ILE:CG2	5:F:926:LEU:HG	2.48	0.43
5:F:1489:ILE:HA	5:F:1492:LEU:HD12	2.01	0.43
7:H:420:ALA:CB	8:I:745:TYR:CD1	2.96	0.43
8:L:664:SER:O	8:L:667:GLN:HG3	2.19	0.43
1:M:532:ILE:HG22	1:M:532:ILE:O	2.18	0.43
1:N:136:PHE:CD1	1:N:136:PHE:O	2.71	0.43
1:N:138:ASN:C	1:N:138:ASN:ND2	2.72	0.43
1:N:436:LEU:HD21	1:N:481:THR:HG23	2.00	0.43
1:N:687:LEU:HD23	1:N:690:ARG:HD2	2.01	0.43
3:P:454:ARG:HA	3:P:455:PHE:HA	1.73	0.43
3:P:909:PHE:O	3:P:913:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:220:VAL:HA	5:R:223:LEU:HG	2.01	0.43
5:R:227:ASP:CA	5:R:361:LEU:CB	2.97	0.43
5:R:320:GLU:CD	5:R:351:HIS:ND1	2.71	0.43
5:R:672:TRP:O	5:R:675:LEU:HB3	2.19	0.43
5:R:1283:LYS:HA	5:R:1283:LYS:NZ	2.34	0.43
6:V:305:ILE:HG21	8:X:665:TRP:NE1	2.34	0.43
6:V:435:GLY:O	6:V:440:VAL:CB	2.67	0.43
1:Z:121:ILE:HD12	1:Z:121:ILE:HA	1.64	0.43
1:A:138:ASN:C	1:A:138:ASN:ND2	2.72	0.43
1:A:140:ILE:HG23	4:E:1393:LYS:HD3	1.84	0.43
1:A:649:GLU:OE1	1:A:652:ILE:HD12	2.19	0.43
3:D:491:ARG:HG3	3:D:521:LYS:N	2.34	0.43
3:D:766:LEU:HD22	3:D:889:GLU:HA	2.01	0.43
3:D:781:LEU:HD11	3:D:903:ILE:HG21	2.00	0.43
4:E:260:ARG:CZ	4:E:761:PHE:CZ	3.00	0.43
4:E:305:ASP:O	4:E:309:ASN:CB	2.67	0.43
4:E:1408:LEU:HD21	4:E:1456:ILE:HD11	2.00	0.43
5:F:841:PHE:CZ	5:F:922:LEU:HB2	2.54	0.43
8:I:795:LYS:C	8:I:795:LYS:NZ	2.72	0.43
6:J:435:GLY:O	6:J:440:VAL:CB	2.67	0.43
8:L:637:LEU:CD2	8:L:640:LEU:HB2	2.48	0.43
1:M:370:TYR:CD2	1:M:390:LEU:HD13	2.54	0.43
1:M:776:ILE:CD1	1:M:828:THR:HG23	2.49	0.43
1:N:391:HIS:HE2	1:N:417:ARG:HB3	1.83	0.43
1:N:634:ASP:O	5:R:1618:SER:CB	2.67	0.43
1:N:709:LYS:NZ	1:N:764:ASP:HB3	2.34	0.43
3:P:375:SER:O	3:P:420:ILE:HD12	2.19	0.43
3:P:485:GLN:OE1	3:P:485:GLN:N	2.51	0.43
3:P:611:LEU:HG	3:P:640:ALA:HB2	2.00	0.43
3:P:766:LEU:HD22	3:P:889:GLU:HA	2.01	0.43
3:P:976:THR:CB	3:P:981:ILE:CA	2.97	0.43
4:Q:442:LEU:HD23	4:Q:442:LEU:HA	1.86	0.43
4:Q:1475:SER:HA	4:Q:1478:ILE:HD12	2.00	0.43
5:R:731:PHE:CD2	5:R:790:SER:HA	2.54	0.43
5:R:1182:ASN:OD1	5:R:1182:ASN:N	2.51	0.43
6:S:398:VAL:HA	6:S:401:ILE:HG12	2.01	0.43
6:V:405:LEU:HD23	6:V:405:LEU:C	2.38	0.43
1:Z:474:PHE:HB3	1:Z:477:TYR:HB3	2.00	0.43
1:A:703:SER:OG	1:A:711:LYS:NZ	2.39	0.43
3:D:451:SER:HB2	3:D:458:GLU:HB2	2.01	0.43
3:D:484:GLN:NE2	3:D:566:LYS:H	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:633:THR:OG1	3:D:783:ASP:OD1	2.27	0.43
4:E:787:PRO:HG2	4:E:1143:GLN:HE21	1.84	0.43
4:E:976:PHE:HZ	7:K:457:ASN:HB3	1.83	0.43
5:F:131:TYR:O	5:F:135:ILE:HG12	2.18	0.43
5:F:900:LEU:HD13	5:F:904:TYR:CD1	2.53	0.43
5:F:909:LEU:O	7:H:403:SER:CB	2.66	0.43
5:F:1349:PHE:N	5:F:1349:PHE:HD1	2.15	0.43
5:F:1362:ASP:CB	1:Z:125:ILE:CG2	2.97	0.43
6:G:452:ASP:CB	1:Z:84:ASP:CG	2.87	0.43
8:I:795:LYS:C	8:I:795:LYS:CD	2.85	0.43
8:I:805:ARG:CB	1:Z:88:LYS:HE2	2.47	0.43
6:J:305:ILE:HG21	8:L:665:TRP:NE1	2.34	0.43
7:K:437:TRP:HB3	8:L:744:ALA:HB3	2.00	0.43
8:L:664:SER:O	8:L:668:VAL:HG23	2.18	0.43
1:M:679:ASP:OD2	1:M:684:ASN:ND2	2.50	0.43
1:M:703:SER:OG	1:M:711:LYS:NZ	2.39	0.43
1:N:84:ASP:CG	6:S:452:ASP:CB	2.87	0.43
1:N:122:LEU:HD23	1:N:122:LEU:HA	1.73	0.43
3:P:582:ASP:O	3:P:585:ILE:HG22	2.19	0.43
3:P:988:LEU:HA	3:P:992:CYS:CB	2.49	0.43
4:Q:443:ILE:HD12	4:Q:590:LEU:HD11	2.01	0.43
4:Q:1319:LEU:CD2	4:Q:1398:VAL:HG22	2.46	0.43
5:R:229:PHE:O	5:R:233:TYR:N	2.52	0.43
5:R:1519:LYS:HA	5:R:1522:VAL:HG12	2.00	0.43
8:U:685:MET:O	8:U:688:HIS:ND1	2.45	0.43
8:X:638:ASP:HA	8:X:641:VAL:HG23	1.99	0.43
1:Z:136:PHE:CD1	1:Z:136:PHE:O	2.72	0.43
1:A:131:GLY:HA2	1:A:134:LYS:HD3	2.01	0.43
3:D:667:LEU:HD12	3:D:669:PHE:HB2	2.00	0.43
3:D:793:PHE:CZ	3:D:934:SER:HB2	2.54	0.43
3:D:1377:ASN:HD21	1:Z:758:GLN:HE21	1.59	0.43
4:E:598:VAL:HG11	4:E:638:ILE:HD11	2.00	0.43
4:E:963:LYS:HB2	4:E:963:LYS:HE3	1.84	0.43
4:E:1561:LEU:HD13	4:E:1585:LEU:HD11	2.01	0.43
5:F:135:ILE:HG23	5:F:206:ILE:HA	2.01	0.43
5:F:158:ILE:HA	5:F:183:ARG:CZ	2.49	0.43
5:F:606:VAL:HA	5:F:609:LEU:HG	2.01	0.43
5:F:917:PHE:O	5:F:919:ASN:N	2.52	0.43
5:F:1545:ARG:HA	5:F:1548:ALA:HB3	2.01	0.43
6:J:405:LEU:CD1	7:K:469:ARG:C	2.65	0.43
6:J:431:GLN:O	8:L:782:ILE:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:L:695:GLN:NE2	8:L:696:SER:OG	2.51	0.43
1:N:90:LEU:HD23	1:N:90:LEU:HA	1.69	0.43
3:P:467:PHE:CD1	3:P:473:THR:HG23	2.54	0.43
3:P:884:VAL:HB	3:P:887:GLN:OE1	2.19	0.43
3:P:919:VAL:HG12	3:P:920:GLU:N	2.34	0.43
3:P:977:LYS:HD3	1:Z:316:ALA:N	2.29	0.43
4:Q:120:PRO:HB3	4:Q:127:TYR:CG	2.54	0.43
5:R:870:LYS:HA	5:R:870:LYS:HD2	1.85	0.43
5:R:919:ASN:HB3	5:R:920:ILE:H	1.41	0.43
1:A:681:SER:HA	1:A:687:LEU:HB3	2.01	0.42
2:C:1262:LEU:HD23	2:C:1310:MET:HE1	2.00	0.42
3:D:509:PHE:CD1	3:D:515:VAL:HG23	2.54	0.42
3:D:684:PHE:O	3:D:688:LYS:HB2	2.19	0.42
4:E:40:ILE:HD12	4:E:40:ILE:HA	1.90	0.42
5:F:731:PHE:CD2	5:F:790:SER:HA	2.54	0.42
5:F:783:ILE:HG13	5:F:784:ILE:H	1.83	0.42
5:F:825:ILE:O	5:F:825:ILE:HG23	2.19	0.42
5:F:905:SER:CB	8:I:749:GLN:O	2.67	0.42
7:H:444:LEU:HA	7:H:447:SER:HB3	2.01	0.42
7:K:483:VAL:CB	7:K:494:MET:HA	2.49	0.42
8:L:640:LEU:CD1	8:L:643:LYS:HG2	2.49	0.42
8:L:733:ALA:HA	8:L:737:ASN:HD21	1.84	0.42
2:O:79:HIS:CE1	2:O:704:VAL:HG11	2.54	0.42
3:P:212:GLN:N	3:P:235:SER:O	2.47	0.42
3:P:491:ARG:HG3	3:P:521:LYS:N	2.34	0.42
4:Q:569:LEU:HD22	4:Q:634:ILE:HD11	2.01	0.42
4:Q:1561:LEU:HD13	4:Q:1585:LEU:HD11	2.01	0.42
5:R:917:PHE:O	5:R:919:ASN:N	2.52	0.42
5:R:1489:ILE:HA	5:R:1492:LEU:HD12	2.01	0.42
7:T:386:LEU:HD21	8:U:687:GLU:HA	2.00	0.42
6:V:304:LEU:O	6:V:308:ILE:HG12	2.19	0.42
6:V:379:LEU:O	6:V:379:LEU:HG	2.19	0.42
8:X:664:SER:O	8:X:667:GLN:HG3	2.19	0.42
8:X:667:GLN:O	8:X:670:VAL:HG22	2.18	0.42
1:Z:78:LEU:HB3	1:Z:83:VAL:CG2	2.48	0.42
1:A:215:TYR:CD2	1:A:238:PHE:HE1	2.37	0.42
2:C:888:LEU:HA	2:C:892:PHE:HD2	1.84	0.42
3:D:491:ARG:HB2	3:D:521:LYS:H	1.84	0.42
3:D:822:ILE:HG22	3:D:824:GLN:H	1.84	0.42
3:D:988:LEU:HA	3:D:992:CYS:CB	2.49	0.42
4:E:260:ARG:CG	4:E:260:ARG:NH1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:229:PHE:O	5:F:233:TYR:N	2.52	0.42
5:F:320:GLU:CD	5:F:351:HIS:ND1	2.72	0.42
5:F:437:ASP:HA	5:F:440:GLN:HG3	2.01	0.42
5:F:522:MET:SD	5:F:523:ARG:N	2.92	0.42
5:F:1499:LEU:HD23	5:F:1499:LEU:HA	1.92	0.42
6:G:440:VAL:HA	6:G:443:VAL:HB	2.01	0.42
6:G:449:LEU:HA	1:Z:84:ASP:OD1	2.19	0.42
8:I:672:GLY:HA2	8:I:675:GLN:HG2	2.00	0.42
8:I:822:LYS:NZ	8:I:822:LYS:CB	2.82	0.42
6:J:283:TYR:CD2	6:J:286:LYS:HE2	2.55	0.42
6:J:371:LYS:C	6:J:371:LYS:CD	2.88	0.42
7:K:365:GLN:O	7:K:369:VAL:HG23	2.19	0.42
1:M:215:TYR:CD2	1:M:238:PHE:HE1	2.37	0.42
1:M:341:LEU:HD21	1:M:371:PHE:CZ	2.53	0.42
1:N:250:ASN:HA	1:N:253:LEU:CB	2.47	0.42
1:N:748:SER:OG	1:N:752:SER:CB	2.65	0.42
1:N:807:LYS:C	1:N:836:ASP:O	2.56	0.42
5:R:1026:PHE:HE1	5:R:1049:LEU:HD11	1.83	0.42
7:T:532:ALA:HA	8:U:821:ILE:HG13	2.01	0.42
7:W:413:LEU:HD21	8:X:749:GLN:HB3	2.00	0.42
8:X:676:ILE:HD13	8:X:679:LEU:HD22	2.01	0.42
1:Z:444:LYS:HA	1:Z:444:LYS:HD3	1.89	0.42
1:Z:709:LYS:NZ	1:Z:764:ASP:HB3	2.34	0.42
1:Z:779:LEU:CB	1:Z:835:ILE:CA	2.97	0.42
1:A:531:ASP:OD2	1:A:536:ASN:ND2	2.41	0.42
2:C:899:ALA:HB3	2:C:941:ASN:HD22	1.83	0.42
3:D:605:VAL:HG11	3:D:608:ILE:HD11	2.00	0.42
3:D:648:GLU:HG3	3:D:650:TYR:HE1	1.83	0.42
4:E:291:ASP:OD1	4:E:291:ASP:N	2.51	0.42
4:E:569:LEU:HD22	4:E:634:ILE:HD11	2.01	0.42
4:E:1444:LEU:O	4:E:1448:SER:N	2.49	0.42
5:F:426:GLN:HA	5:F:429:GLU:HG3	2.00	0.42
5:F:1634:LYS:HA	5:F:1637:VAL:HG22	2.00	0.42
6:G:296:ALA:CB	6:J:363:LYS:HD2	2.45	0.42
7:H:365:GLN:HA	7:H:368:ASN:HD22	1.84	0.42
6:J:298:THR:HA	8:L:658:TYR:CE1	2.54	0.42
6:J:365:SER:N	7:K:424:ASN:HD21	2.04	0.42
6:J:406:PHE:HB2	7:K:469:ARG:HH21	1.84	0.42
7:K:321:ALA:O	7:K:339:MET:HE3	2.19	0.42
7:K:402:GLN:C	7:K:402:GLN:NE2	2.72	0.42
8:L:682:ASP:OD1	8:L:685:MET:HE3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:491:ARG:HB2	3:P:521:LYS:H	1.83	0.42
3:P:1367:LEU:HD23	3:P:1398:PHE:CE1	2.54	0.42
4:Q:773:LEU:HA	4:Q:773:LEU:HD23	1.50	0.42
5:R:158:ILE:HA	5:R:183:ARG:CZ	2.49	0.42
5:R:589:ASP:OD1	5:R:589:ASP:N	2.52	0.42
5:R:1138:PHE:C	5:R:1140:GLU:H	2.21	0.42
7:T:394:THR:HA	8:U:697:LEU:HD22	2.00	0.42
6:V:371:LYS:O	6:V:371:LYS:CD	2.68	0.42
1:Z:117:LYS:HB3	1:Z:117:LYS:HZ2	1.77	0.42
1:Z:432:ILE:HD12	1:Z:432:ILE:HA	1.91	0.42
1:Z:510:LEU:HB3	1:Z:516:PHE:HB2	2.00	0.42
1:Z:792:SER:OG	1:Z:799:LYS:NZ	2.43	0.42
1:A:225:SER:O	1:A:229:ASN:N	2.51	0.42
1:A:709:LYS:O	1:A:713:ILE:HG12	2.18	0.42
3:D:367:ILE:HA	3:D:380:TYR:O	2.20	0.42
3:D:381:VAL:O	3:D:385:LYS:HA	2.19	0.42
4:E:120:PRO:HB3	4:E:127:TYR:CG	2.54	0.42
4:E:319:PRO:HG2	4:E:361:LYS:HD3	2.00	0.42
4:E:1168:LYS:O	4:E:1174:ASN:ND2	2.45	0.42
4:E:1539:ASN:ND2	4:E:1611:TYR:OH	2.48	0.42
5:F:765:ASP:OD1	5:F:765:ASP:N	2.51	0.42
5:F:925:HIS:HA	5:F:928:LEU:HD11	2.00	0.42
6:G:343:ASP:O	6:G:347:THR:OG1	2.30	0.42
7:H:532:ALA:HA	8:I:821:ILE:HG13	2.01	0.42
6:J:311:ASP:OD2	7:K:376:LEU:HD11	2.20	0.42
6:J:311:ASP:CG	7:K:376:LEU:HD21	2.39	0.42
6:J:334:SER:HA	6:J:337:LYS:HB2	2.01	0.42
6:J:371:LYS:O	6:J:371:LYS:CD	2.68	0.42
1:M:681:SER:OG	1:M:691:ARG:NH1	2.53	0.42
1:M:760:PHE:HD2	1:M:823:ARG:HH11	1.66	0.42
1:N:357:LYS:HA	1:N:360:ILE:HB	2.00	0.42
1:N:453:VAL:CG1	4:Q:1359:ILE:HG21	2.44	0.42
3:P:131:VAL:HG21	3:P:467:PHE:H	1.84	0.42
3:P:381:VAL:O	3:P:385:LYS:HA	2.19	0.42
3:P:514:SER:O	3:P:515:VAL:HG13	2.20	0.42
3:P:873:SER:HB3	3:P:877:VAL:HB	2.01	0.42
3:P:1494:ASN:O	5:R:1471:LYS:NZ	2.49	0.42
4:Q:923:LEU:C	4:Q:923:LEU:CD2	2.88	0.42
4:Q:1412:LEU:HD23	4:Q:1412:LEU:HA	1.90	0.42
5:R:108:LEU:O	5:R:111:GLN:HB3	2.20	0.42
5:R:135:ILE:HG23	5:R:206:ILE:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:825:ILE:O	5:R:825:ILE:HG23	2.19	0.42
5:R:1157:TRP:O	5:R:1158:THR:C	2.55	0.42
5:R:1529:ALA:HB2	5:R:1611:VAL:CB	2.49	0.42
8:U:672:GLY:HA2	8:U:675:GLN:HG2	2.01	0.42
6:V:357:LEU:CG	7:W:423:LYS:HE3	2.40	0.42
6:V:400:GLY:O	6:V:403:THR:HB	2.14	0.42
6:V:406:PHE:HB2	7:W:469:ARG:HH21	1.84	0.42
7:W:454:GLY:C	7:W:456:THR:H	2.22	0.42
1:Z:20:LYS:HA	1:Z:20:LYS:HD3	1.46	0.42
1:Z:211:LYS:N	1:Z:246:ASN:HD21	2.17	0.42
1:Z:687:LEU:HD23	1:Z:690:ARG:HD2	2.01	0.42
1:A:532:ILE:HG22	1:A:532:ILE:O	2.19	0.42
2:C:693:LEU:HB3	2:C:694:PHE:CD1	2.54	0.42
3:D:467:PHE:CD1	3:D:473:THR:HG23	2.54	0.42
3:D:1241:GLY:O	1:Z:826:ARG:CB	2.67	0.42
4:E:36:GLN:NE2	4:E:36:GLN:O	2.53	0.42
5:F:1305:SER:O	5:F:1307:VAL:N	2.49	0.42
5:F:1508:ILE:HG22	5:F:1511:LEU:HD23	2.02	0.42
7:H:415:LEU:HD12	7:H:415:LEU:HA	1.80	0.42
8:I:815:GLU:HB3	8:I:816:LYS:HE3	2.02	0.42
7:K:311:PHE:HD1	7:K:351:GLN:HG3	1.85	0.42
7:K:352:ILE:CG2	7:K:358:LEU:HG	2.47	0.42
1:M:21:LYS:HB2	1:Z:31:ASN:HA	0.90	0.42
1:N:786:ILE:HD11	1:N:838:SER:HA	2.01	0.42
4:Q:192:LEU:HD23	4:Q:195:LEU:HD23	2.01	0.42
4:Q:530:ILE:HA	4:Q:552:LEU:O	2.19	0.42
4:Q:982:ILE:HD12	4:Q:982:ILE:H	1.85	0.42
4:Q:1017:LEU:HD23	4:Q:1017:LEU:HA	1.86	0.42
4:Q:1071:LYS:HA	4:Q:1071:LYS:HD3	1.83	0.42
4:Q:1389:LEU:HA	4:Q:1392:PHE:HD2	1.85	0.42
5:R:37:LEU:HD22	5:R:146:SER:HB2	2.02	0.42
5:R:296:ARG:H	5:R:296:ARG:HG3	1.71	0.42
5:R:914:ASP:HA	5:R:917:PHE:HB2	1.93	0.42
5:R:1359:PHE:CE1	5:R:1363:ILE:CG2	3.00	0.42
7:T:527:LEU:C	7:T:527:LEU:CD2	2.85	0.42
6:V:277:ILE:HD12	6:V:277:ILE:HA	1.95	0.42
6:V:371:LYS:C	6:V:371:LYS:CD	2.88	0.42
7:W:525:GLU:O	7:W:529:LYS:N	2.53	0.42
8:X:640:LEU:CD1	8:X:643:LYS:HG2	2.49	0.42
1:Z:116:LYS:C	1:Z:116:LYS:CE	2.85	0.42
1:Z:599:ARG:HH22	1:Z:620:LEU:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:654:ILE:HG22	1:Z:710:ASN:HB2	2.01	0.42
1:A:682:GLU:HG2	1:A:691:ARG:NH2	2.30	0.42
3:D:919:VAL:HG12	3:D:920:GLU:N	2.34	0.42
4:E:314:ASP:OD1	4:E:314:ASP:N	2.48	0.42
4:E:443:ILE:HD12	4:E:590:LEU:HD11	2.01	0.42
5:F:390:TRP:CB	5:F:393:SER:HB3	2.49	0.42
5:F:929:TYR:C	5:F:931:GLY:N	2.73	0.42
5:F:1088:ARG:HH11	5:F:1088:ARG:CG	2.23	0.42
5:F:1090:PRO:CD	5:F:1093:SER:HB3	2.49	0.42
5:F:1182:ASN:N	5:F:1182:ASN:OD1	2.51	0.42
5:F:1550:LEU:HD11	5:F:1604:ILE:HG21	2.01	0.42
5:F:1558:ASP:CB	5:R:1680:GLN:HE21	2.31	0.42
6:G:398:VAL:HA	6:G:401:ILE:HG12	2.01	0.42
8:L:816:LYS:HD2	8:L:816:LYS:HA	1.82	0.42
1:N:621:HIS:CE1	3:P:1467:SER:CA	3.02	0.42
1:N:779:LEU:CB	1:N:835:ILE:CA	2.97	0.42
1:N:826:ARG:CB	3:P:1241:GLY:O	2.67	0.42
3:P:508:LYS:HE3	3:P:518:GLU:HG2	2.01	0.42
3:P:583:TYR:CE2	3:P:628:PHE:HB2	2.47	0.42
3:P:1137:ASP:N	1:Z:205:ASN:HA	2.34	0.42
5:R:390:TRP:CB	5:R:393:SER:HB3	2.49	0.42
5:R:657:ILE:O	5:R:712:LEU:CD1	2.56	0.42
5:R:726:SER:HA	5:R:730:VAL:HG22	2.01	0.42
5:R:951:ARG:NE	5:R:951:ARG:HA	2.29	0.42
5:R:1196:SER:HB2	5:R:1198:LEU:H	1.84	0.42
7:T:365:GLN:HA	7:T:368:ASN:HD22	1.84	0.42
6:V:311:ASP:CG	7:W:376:LEU:HD21	2.39	0.42
6:V:334:SER:HA	6:V:337:LYS:HB2	2.01	0.42
7:W:402:GLN:C	7:W:402:GLN:NE2	2.72	0.42
7:W:518:ARG:NH1	7:W:518:ARG:C	2.73	0.42
1:A:776:ILE:CD1	1:A:828:THR:HG23	2.49	0.42
3:D:375:SER:O	3:D:420:ILE:HD12	2.19	0.42
3:D:381:VAL:HB	3:D:457:ILE:CG2	2.50	0.42
3:D:1367:LEU:HD23	3:D:1398:PHE:CE1	2.54	0.42
4:E:199:ILE:O	4:E:202:THR:OG1	2.38	0.42
4:E:222:GLU:O	4:E:226:ASN:HB2	2.20	0.42
4:E:916:TYR:CZ	4:E:963:LYS:HB2	2.54	0.42
4:E:982:ILE:HD12	4:E:982:ILE:H	1.85	0.42
4:E:989:ASP:C	4:E:991:LYS:N	2.72	0.42
5:F:864:LEU:HD12	5:F:864:LEU:HA	1.81	0.42
5:F:935:GLN:CB	5:F:998:LEU:CD2	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:1118:ARG:HA	5:F:1118:ARG:HD3	1.47	0.42
5:F:1293:ASN:ND2	5:F:1293:ASN:C	2.73	0.42
6:G:305:ILE:HD12	6:G:305:ILE:HA	1.91	0.42
1:N:121:ILE:HD12	1:N:121:ILE:HA	1.64	0.42
3:P:681:THR:O	3:P:685:VAL:HG23	2.20	0.42
4:Q:199:ILE:O	4:Q:202:THR:OG1	2.38	0.42
5:R:144:ILE:HD13	5:R:197:LEU:HD23	2.01	0.42
5:R:929:TYR:C	5:R:931:GLY:N	2.73	0.42
5:R:1293:ASN:ND2	5:R:1293:ASN:C	2.73	0.42
5:R:1550:LEU:HD12	5:R:1604:ILE:HG21	2.01	0.42
5:R:1634:LYS:HA	5:R:1637:VAL:HG22	2.00	0.42
7:T:462:ARG:HA	7:T:465:ILE:HB	2.02	0.42
8:U:795:LYS:HZ3	8:U:795:LYS:HB2	1.85	0.42
6:V:389:ARG:NH1	6:V:389:ARG:HG2	2.31	0.42
6:V:391:LEU:CD1	7:W:455:LYS:HA	2.49	0.42
8:X:794:ILE:HA	8:X:797:LEU:HB3	2.01	0.42
1:A:478:TYR:O	1:A:482:LEU:HG	2.20	0.42
1:A:681:SER:OG	1:A:691:ARG:NH1	2.53	0.42
1:A:785:MET:SD	1:A:806:LEU:HD11	2.60	0.42
3:D:212:GLN:N	3:D:235:SER:O	2.47	0.42
3:D:491:ARG:HB2	3:D:520:THR:HB	2.01	0.42
3:D:611:LEU:HG	3:D:640:ALA:HB2	2.00	0.42
4:E:343:ASP:O	4:E:347:THR:OG1	2.36	0.42
4:E:599:THR:HG23	4:E:660:PHE:HA	2.02	0.42
4:E:923:LEU:C	4:E:923:LEU:CD2	2.88	0.42
4:E:1356:LEU:CB	1:Z:453:VAL:HG21	2.49	0.42
4:E:1387:LEU:O	4:E:1391:LEU:N	2.51	0.42
5:F:245:ARG:NH2	5:F:284:TYR:O	2.45	0.42
7:H:462:ARG:HA	7:H:465:ILE:HB	2.02	0.42
7:K:462:ARG:O	7:K:466:LEU:HD12	2.20	0.42
1:M:479:LEU:HD12	1:M:491:ALA:HB1	2.02	0.42
1:M:681:SER:HA	1:M:687:LEU:HB3	2.01	0.42
1:M:682:GLU:HG2	1:M:691:ARG:NH2	2.30	0.42
1:N:654:ILE:HG22	1:N:710:ASN:HB2	2.01	0.42
2:O:888:LEU:HA	2:O:892:PHE:HD2	1.84	0.42
3:P:381:VAL:HB	3:P:457:ILE:CG2	2.50	0.42
4:Q:1387:LEU:O	4:Q:1391:LEU:N	2.51	0.42
4:Q:1444:LEU:O	4:Q:1448:SER:N	2.49	0.42
5:R:522:MET:SD	5:R:523:ARG:N	2.92	0.42
5:R:911:SER:HB3	5:R:912:PHE:H	1.68	0.42
5:R:1090:PRO:CD	5:R:1093:SER:HB3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:1257:LEU:HD23	5:R:1257:LEU:HA	1.84	0.42
5:R:1543:LEU:C	5:R:1543:LEU:CD1	2.88	0.42
7:T:444:LEU:HA	7:T:447:SER:HB3	2.02	0.42
6:V:290:ILE:HD12	7:W:356:GLU:OE2	2.19	0.42
6:V:327:LYS:HG3	6:V:328:GLN:NE2	2.34	0.42
7:W:462:ARG:O	7:W:466:LEU:HD12	2.20	0.42
7:W:509:ILE:HG21	1:Z:12:SER:HB3	1.96	0.42
8:X:679:LEU:O	8:X:682:ASP:HB2	2.20	0.42
1:Z:367:PHE:O	1:Z:370:TYR:HB2	2.20	0.42
1:A:137:ASP:HB2	4:E:1386:LEU:CA	2.43	0.42
1:A:370:TYR:CD2	1:A:390:LEU:HD13	2.54	0.42
2:C:1389:GLY:HA2	4:E:1331:LEU:HD11	2.02	0.42
3:D:884:VAL:HB	3:D:887:GLN:OE1	2.19	0.42
4:E:464:ALA:HB1	4:E:552:LEU:HD21	2.01	0.42
4:E:672:VAL:HG12	4:E:676:LEU:HD12	2.02	0.42
4:E:1043:LEU:HB3	4:E:1078:ILE:HD11	2.00	0.42
6:G:449:LEU:CD2	1:Z:84:ASP:O	2.67	0.42
6:J:290:ILE:HD12	7:K:356:GLU:OE2	2.20	0.42
1:M:92:THR:O	6:V:401:ILE:CD1	2.68	0.42
1:M:138:ASN:C	1:M:138:ASN:ND2	2.73	0.42
1:M:771:ILE:HD13	1:M:774:LEU:HD12	2.00	0.42
1:N:766:ASN:OD1	1:N:766:ASN:N	2.39	0.42
1:N:830:SER:CB	3:P:1238:ARG:CA	2.81	0.42
3:P:1020:ASN:ND2	1:Z:252:GLN:CG	2.83	0.42
5:R:437:ASP:HA	5:R:440:GLN:HG3	2.01	0.42
5:R:460:SER:HB2	5:R:475:LYS:HB3	2.02	0.42
5:R:640:PHE:O	5:R:643:THR:C	2.58	0.42
5:R:790:SER:O	5:R:790:SER:OG	2.36	0.42
6:S:440:VAL:HA	6:S:443:VAL:HB	2.01	0.42
8:U:822:LYS:NZ	8:U:822:LYS:CB	2.82	0.42
6:V:401:ILE:HD12	6:V:401:ILE:HA	1.84	0.42
7:W:315:LYS:HA	7:W:347:THR:CA	2.38	0.42
7:W:395:ALA:O	7:W:399:LEU:HD23	2.19	0.42
1:Z:16:LYS:NZ	1:Z:16:LYS:C	2.72	0.42
1:Z:776:ILE:C	1:Z:778:THR:H	2.23	0.42
3:D:514:SER:O	3:D:515:VAL:HG13	2.20	0.42
3:D:680:SER:OG	3:D:772:GLY:HA2	2.20	0.42
4:E:370:SER:O	4:E:372:ASP:N	2.48	0.42
4:E:421:PHE:O	4:E:425:LEU:CB	2.68	0.42
5:F:285:PHE:O	5:F:289:CYS:N	2.49	0.42
5:F:1196:SER:HB2	5:F:1198:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:K:379:ILE:C	7:K:382:LYS:H	2.19	0.42
8:L:749:GLN:NE2	8:L:752:ASP:OD2	2.51	0.42
1:M:649:GLU:OE1	1:M:652:ILE:HD12	2.19	0.42
1:N:56:LEU:HD22	1:N:60:ASN:ND2	2.32	0.42
1:N:436:LEU:HA	1:N:439:HIS:HB2	2.02	0.42
3:P:135:PHE:CZ	3:P:485:GLN:HB2	2.55	0.42
3:P:617:ALA:HA	3:P:630:THR:CG2	2.47	0.42
4:Q:36:GLN:O	4:Q:36:GLN:NE2	2.53	0.42
4:Q:599:THR:HG23	4:Q:660:PHE:HA	2.02	0.42
4:Q:952:LEU:HD23	4:Q:952:LEU:HA	1.81	0.42
5:R:1103:GLU:H	5:R:1103:GLU:HG2	1.63	0.42
5:R:1545:ARG:HA	5:R:1548:ALA:HB3	2.01	0.42
8:U:795:LYS:NZ	8:U:799:SER:HB3	2.35	0.42
6:V:383:LYS:HZ1	8:X:756:ASN:HA	0.48	0.42
7:W:315:LYS:HG3	7:W:347:THR:HG22	2.02	0.42
7:W:522:TYR:C	7:W:522:TYR:HD1	2.23	0.42
1:Z:558:VAL:HG21	1:Z:607:ARG:HE	1.85	0.42
1:A:516:PHE:CE2	1:A:534:PHE:HB2	2.54	0.41
3:D:131:VAL:HG21	3:D:467:PHE:H	1.85	0.41
3:D:295:GLU:CD	3:D:316:LYS:HE3	2.40	0.41
4:E:531:LEU:HD23	4:E:531:LEU:HA	1.87	0.41
4:E:923:LEU:CD1	4:E:931:PHE:HE2	2.26	0.41
5:F:672:TRP:O	5:F:675:LEU:HB3	2.19	0.41
5:F:917:PHE:HZ	7:H:400:LYS:HZ2	1.67	0.41
5:F:1082:ILE:HA	5:F:1082:ILE:HD13	1.87	0.41
5:F:1177:VAL:C	5:F:1180:TYR:CB	2.88	0.41
7:K:311:PHE:CD1	7:K:351:GLN:HG3	2.55	0.41
7:K:358:LEU:HD22	8:L:662:ILE:CD1	2.41	0.41
7:K:454:GLY:O	7:K:456:THR:N	2.52	0.41
1:N:49:LEU:C	1:N:49:LEU:HD13	2.40	0.41
1:N:558:VAL:HG21	1:N:607:ARG:HE	1.85	0.41
1:N:771:ILE:CG2	1:N:772:PRO:CD	2.92	0.41
1:N:776:ILE:C	1:N:778:THR:H	2.23	0.41
3:P:451:SER:HB2	3:P:458:GLU:HB2	2.01	0.41
4:Q:1086:ILE:HD13	4:Q:1086:ILE:HA	1.86	0.41
5:R:470:ASP:OD1	5:R:470:ASP:N	2.53	0.41
5:R:606:VAL:HA	5:R:609:LEU:HG	2.01	0.41
5:R:1177:VAL:C	5:R:1180:TYR:CB	2.88	0.41
5:R:1286:PHE:O	5:R:1286:PHE:CD1	2.70	0.41
5:R:1550:LEU:HD11	5:R:1604:ILE:HG21	2.01	0.41
8:X:659:THR:HA	8:X:662:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:710:ASN:OD1	1:Z:710:ASN:N	2.48	0.41
1:Z:807:LYS:CB	1:Z:837:VAL:HA	2.50	0.41
1:A:432:ILE:HD12	1:A:435:TRP:HB3	2.02	0.41
3:D:135:PHE:CZ	3:D:485:GLN:HB2	2.55	0.41
3:D:508:LYS:HE3	3:D:518:GLU:HG2	2.01	0.41
3:D:988:LEU:CB	3:D:1001:ILE:CB	2.98	0.41
4:E:1266:LYS:HD3	4:E:1266:LYS:HA	1.74	0.41
4:E:1389:LEU:HA	4:E:1392:PHE:HD2	1.85	0.41
5:F:42:LEU:HD12	5:F:42:LEU:HA	1.95	0.41
5:F:108:LEU:O	5:F:111:GLN:HB3	2.20	0.41
5:F:189:GLU:HA	5:F:192:ILE:HG12	2.02	0.41
5:F:321:GLN:O	5:F:325:PHE:CB	2.68	0.41
5:F:470:ASP:N	5:F:470:ASP:OD1	2.53	0.41
5:F:866:GLN:OE1	5:F:940:ASN:HB2	2.20	0.41
5:F:968:ILE:HA	7:H:392:LEU:HD11	2.02	0.41
5:F:1144:VAL:HG11	5:F:1291:SER:OG	2.20	0.41
5:F:1282:ALA:O	5:F:1286:PHE:N	2.47	0.41
8:I:792:GLN:HG2	1:Z:42:ILE:HD12	1.48	0.41
6:J:304:LEU:O	6:J:308:ILE:HG12	2.19	0.41
1:M:131:GLY:HA2	1:M:134:LYS:HD3	2.01	0.41
1:M:780:SER:O	1:M:784:ASN:ND2	2.53	0.41
3:P:178:GLU:HB3	3:P:230:HIS:NE2	2.35	0.41
3:P:421:VAL:HG22	3:P:491:ARG:N	2.35	0.41
4:Q:916:TYR:CZ	4:Q:963:LYS:HB2	2.54	0.41
5:R:164:LYS:HA	5:R:167:ILE:HG12	2.02	0.41
5:R:321:GLN:O	5:R:325:PHE:CB	2.69	0.41
5:R:409:MET:CB	5:R:410:PRO:HD2	2.51	0.41
8:U:694:ASP:O	8:U:698:GLN:NE2	2.54	0.41
6:V:306:ASP:O	6:V:309:PRO:HD2	2.20	0.41
6:V:309:PRO:HA	6:V:312:VAL:CB	2.50	0.41
7:W:419:LEU:O	7:W:419:LEU:CD2	2.68	0.41
8:X:682:ASP:OD1	8:X:685:MET:HE3	2.19	0.41
3:D:292:ASN:OD1	3:D:293:ILE:N	2.53	0.41
3:D:681:THR:O	3:D:685:VAL:HG23	2.20	0.41
3:D:846:ILE:HG13	3:D:907:LEU:CD1	2.51	0.41
4:E:268:THR:O	4:E:272:ILE:HG13	2.21	0.41
4:E:331:TYR:HD1	4:E:331:TYR:HA	1.71	0.41
5:F:450:LEU:HA	5:F:453:ILE:HG12	2.02	0.41
5:F:1198:LEU:HD22	5:F:1201:LEU:HD13	2.02	0.41
6:G:327:LYS:HZ2	1:Z:46:ILE:CB	2.28	0.41
8:L:659:THR:HA	8:L:662:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:432:ILE:HD12	1:M:435:TRP:HB3	2.02	0.41
1:M:650:TYR:CG	1:M:702:ILE:HG23	2.55	0.41
1:N:125:ILE:CG2	5:R:1362:ASP:CB	2.97	0.41
3:P:274:VAL:HG23	3:P:283:PHE:HB2	2.03	0.41
3:P:822:ILE:HG22	3:P:824:GLN:H	1.84	0.41
4:Q:464:ALA:HB1	4:Q:552:LEU:HD21	2.01	0.41
4:Q:793:LEU:HA	4:Q:793:LEU:HD23	1.77	0.41
4:Q:1483:ILE:HG21	4:Q:1492:HIS:CE1	2.56	0.41
5:R:386:GLY:HA3	5:R:392:PRO:O	2.21	0.41
5:R:719:ILE:HG12	5:R:731:PHE:CD2	2.56	0.41
7:W:335:TRP:CH2	7:W:339:MET:HE2	2.54	0.41
7:W:365:GLN:O	7:W:369:VAL:HG23	2.19	0.41
3:D:976:THR:CB	3:D:981:ILE:CA	2.97	0.41
4:E:1483:ILE:HG21	4:E:1492:HIS:CE1	2.56	0.41
5:F:220:VAL:HA	5:F:223:LEU:HG	2.01	0.41
5:F:1048:LEU:O	5:F:1051:SER:OG	2.26	0.41
6:J:306:ASP:O	6:J:309:PRO:HD2	2.20	0.41
6:J:391:LEU:CD2	7:K:452:GLY:O	2.47	0.41
7:K:352:ILE:HG21	7:K:358:LEU:HD21	2.02	0.41
1:M:785:MET:SD	1:M:806:LEU:HD11	2.60	0.41
1:N:84:ASP:OD1	6:S:449:LEU:HA	2.20	0.41
1:N:678:ASP:N	1:N:678:ASP:OD1	2.52	0.41
3:P:182:CYS:HB2	3:P:193:TRP:CE2	2.56	0.41
3:P:491:ARG:HB2	3:P:520:THR:HB	2.01	0.41
3:P:585:ILE:HG23	3:P:586:LEU:HD12	2.02	0.41
3:P:778:THR:O	3:P:782:ARG:HB2	2.20	0.41
3:P:988:LEU:CB	3:P:1001:ILE:CB	2.98	0.41
4:Q:1075:ILE:HA	4:Q:1078:ILE:HG22	2.03	0.41
4:Q:1168:LYS:O	4:Q:1174:ASN:ND2	2.45	0.41
5:R:90:GLU:HA	5:R:93:LEU:HB2	2.03	0.41
5:R:450:LEU:HA	5:R:453:ILE:HG12	2.02	0.41
5:R:1349:PHE:N	5:R:1349:PHE:HD1	2.15	0.41
7:T:313:TYR:O	7:T:361:ARG:NH2	2.53	0.41
6:V:283:TYR:CD2	6:V:286:LYS:HE2	2.54	0.41
6:V:356:GLN:HB3	7:W:423:LYS:NZ	2.36	0.41
6:V:405:LEU:O	6:V:405:LEU:CG	2.69	0.41
1:Z:436:LEU:HA	1:Z:439:HIS:HB2	2.01	0.41
1:Z:565:GLY:O	1:Z:569:VAL:N	2.51	0.41
3:D:178:GLU:HB3	3:D:230:HIS:NE2	2.35	0.41
3:D:903:ILE:HG12	3:D:953:PHE:CD1	2.56	0.41
4:E:919:LEU:HD12	4:E:919:LEU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:640:PHE:O	5:F:643:THR:C	2.58	0.41
5:F:1626:VAL:HA	5:F:1629:LEU:HB3	2.02	0.41
6:G:275:GLN:NE2	6:G:278:GLU:OE1	2.40	0.41
8:I:694:ASP:O	8:I:698:GLN:NE2	2.54	0.41
6:J:327:LYS:HG3	6:J:328:GLN:NE2	2.34	0.41
6:J:389:ARG:HH21	6:J:390:ILE:HD12	1.86	0.41
6:J:391:LEU:HA	6:J:394:ILE:CG1	2.51	0.41
7:K:455:LYS:HD3	7:K:455:LYS:H	1.75	0.41
7:K:503:ASN:HB2	7:K:506:ILE:CD1	2.50	0.41
7:K:525:GLU:O	7:K:529:LYS:CB	2.56	0.41
1:M:603:VAL:O	1:M:606:GLU:HG2	2.21	0.41
1:N:680:ASN:O	1:N:684:ASN:N	2.36	0.41
3:P:295:GLU:CD	3:P:316:LYS:HE3	2.40	0.41
3:P:828:ILE:O	3:P:828:ILE:HG13	2.21	0.41
3:P:1431:LYS:HE2	3:P:1435:GLU:OE1	2.20	0.41
4:Q:1066:VAL:HA	4:Q:1069:ILE:HD12	2.02	0.41
5:R:189:GLU:HA	5:R:192:ILE:HG12	2.02	0.41
5:R:633:LYS:HD2	5:R:633:LYS:HA	1.82	0.41
5:R:1158:THR:HG22	5:R:1197:PHE:CD2	2.55	0.41
5:R:1626:VAL:HA	5:R:1629:LEU:HB3	2.02	0.41
7:T:412:ILE:O	7:T:415:LEU:HB2	2.17	0.41
8:U:795:LYS:C	8:U:795:LYS:NZ	2.72	0.41
6:V:311:ASP:OD2	7:W:376:LEU:HD11	2.19	0.41
7:W:311:PHE:CD1	7:W:351:GLN:HG3	2.55	0.41
7:W:330:VAL:C	7:W:331:LEU:HD12	2.41	0.41
7:W:352:ILE:HG21	7:W:358:LEU:HD21	2.01	0.41
1:Z:822:TYR:HB3	1:Z:824:MET:SD	2.60	0.41
1:A:479:LEU:HD12	1:A:491:ALA:HB1	2.02	0.41
3:D:182:CYS:HB2	3:D:193:TRP:CE2	2.56	0.41
4:E:192:LEU:HD23	4:E:195:LEU:HD23	2.01	0.41
4:E:369:LEU:HD23	4:E:375:TYR:CD2	2.56	0.41
4:E:1066:VAL:HA	4:E:1069:ILE:HD12	2.02	0.41
5:F:386:GLY:HA3	5:F:392:PRO:O	2.21	0.41
5:F:719:ILE:HG12	5:F:731:PHE:CD2	2.56	0.41
5:F:971:SER:HB3	7:H:392:LEU:CD2	2.50	0.41
5:F:974:GLU:OE1	5:F:977:ARG:NH2	2.51	0.41
5:F:1027:GLN:CG	5:F:1027:GLN:O	2.69	0.41
8:I:816:LYS:N	8:I:816:LYS:CE	2.83	0.41
6:J:371:LYS:O	6:J:371:LYS:CE	2.68	0.41
8:L:671:LYS:O	8:L:675:GLN:NE2	2.47	0.41
8:L:794:ILE:HA	8:L:797:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:12:SER:O	1:N:12:SER:OG	2.31	0.41
1:N:199:ARG:NH2	1:N:496:TYR:O	2.45	0.41
1:N:239:ILE:HG23	1:N:258:LYS:HZ2	1.85	0.41
1:N:487:LEU:HD23	1:N:487:LEU:HA	1.90	0.41
3:P:367:ILE:HA	3:P:380:TYR:O	2.20	0.41
4:Q:904:LEU:HD23	4:Q:907:LEU:HD23	2.02	0.41
4:Q:1329:ILE:O	4:Q:1333:SER:HB3	2.21	0.41
5:R:889:ILE:O	5:R:893:HIS:N	2.51	0.41
5:R:989:SER:O	5:R:989:SER:OG	2.26	0.41
6:S:319:GLU:HA	6:S:322:THR:HG22	2.03	0.41
7:T:412:ILE:CA	7:T:415:LEU:HB2	2.42	0.41
8:U:731:GLY:C	8:U:733:ALA:N	2.71	0.41
6:V:381:GLU:HA	6:V:381:GLU:OE2	2.19	0.41
7:W:311:PHE:HD1	7:W:351:GLN:HG3	1.85	0.41
1:A:780:SER:O	1:A:784:ASN:ND2	2.53	0.41
3:D:274:VAL:HG23	3:D:283:PHE:HB2	2.02	0.41
3:D:716:VAL:HG13	3:D:767:SER:HB3	2.02	0.41
3:D:778:THR:O	3:D:782:ARG:HB2	2.20	0.41
3:D:788:HIS:ND1	3:D:946:LYS:HA	2.36	0.41
3:D:1431:LYS:HE2	3:D:1435:GLU:OE1	2.20	0.41
5:F:348:LEU:HD22	5:F:483:LEU:HD22	2.03	0.41
5:F:460:SER:HB2	5:F:475:LYS:HB3	2.02	0.41
5:F:920:ILE:CB	5:F:924:ALA:O	2.69	0.41
8:I:822:LYS:HE3	8:I:822:LYS:CA	2.44	0.41
6:J:381:GLU:HA	6:J:381:GLU:OE2	2.19	0.41
7:K:305:LYS:O	7:K:307:LYS:HE2	2.20	0.41
7:K:330:VAL:C	7:K:331:LEU:HD12	2.41	0.41
7:K:506:ILE:HG13	7:K:507:ASN:H	1.86	0.41
1:M:478:TYR:O	1:M:482:LEU:HG	2.20	0.41
1:M:512:SER:O	1:M:514:LYS:NZ	2.50	0.41
1:N:571:LEU:HA	1:N:574:GLU:HG3	2.03	0.41
1:N:824:MET:HB2	1:N:825:PRO:CD	2.30	0.41
3:P:491:ARG:CA	3:P:520:THR:HB	2.51	0.41
3:P:680:SER:OG	3:P:772:GLY:HA2	2.20	0.41
3:P:713:ILE:HD12	3:P:769:ARG:CD	2.48	0.41
3:P:788:HIS:ND1	3:P:946:LYS:HA	2.35	0.41
3:P:869:LEU:HD23	3:P:869:LEU:HA	1.92	0.41
4:Q:222:GLU:O	4:Q:226:ASN:HB2	2.20	0.41
4:Q:980:LYS:O	4:Q:980:LYS:CG	2.69	0.41
4:Q:1380:ASP:C	4:Q:1382:THR:H	2.24	0.41
5:R:662:PRO:HG3	5:R:715:ASN:ND2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:920:ILE:CB	5:R:924:ALA:O	2.69	0.41
5:R:1034:LEU:HD22	5:R:1092:THR:CB	2.28	0.41
1:Z:206:ASN:OD1	1:Z:206:ASN:N	2.53	0.41
1:Z:571:LEU:HA	1:Z:574:GLU:HG3	2.03	0.41
1:A:232:PHE:CZ	1:A:237:GLU:HG3	2.56	0.41
1:A:586:PHE:CD2	1:A:642:LEU:HD11	2.56	0.41
3:D:617:ALA:HA	3:D:630:THR:CG2	2.47	0.41
3:D:873:SER:HB3	3:D:877:VAL:HB	2.02	0.41
4:E:927:LYS:O	4:E:931:PHE:N	2.37	0.41
5:F:144:ILE:HD13	5:F:197:LEU:HD23	2.01	0.41
5:F:164:LYS:HA	5:F:167:ILE:HG12	2.02	0.41
5:F:589:ASP:OD1	5:F:589:ASP:N	2.52	0.41
6:G:295:LYS:HB3	6:J:363:LYS:NZ	2.33	0.41
7:H:313:TYR:O	7:H:361:ARG:NH2	2.53	0.41
8:I:795:LYS:NZ	8:I:799:SER:HB3	2.35	0.41
6:J:381:GLU:OE2	6:J:381:GLU:CA	2.69	0.41
6:J:389:ARG:NH1	6:J:389:ARG:CA	2.84	0.41
7:K:315:LYS:HG3	7:K:347:THR:HG22	2.02	0.41
7:K:483:VAL:N	7:K:493:SER:C	2.70	0.41
8:L:676:ILE:HD13	8:L:679:LEU:HD22	2.01	0.41
1:M:128:LEU:CB	4:Q:1260:TYR:HE2	2.26	0.41
1:N:367:PHE:O	1:N:370:TYR:HB2	2.20	0.41
1:N:807:LYS:CB	1:N:837:VAL:HA	2.50	0.41
3:P:716:VAL:HG13	3:P:767:SER:HB3	2.02	0.41
4:Q:176:LEU:HD23	4:Q:176:LEU:HA	1.90	0.41
4:Q:268:THR:O	4:Q:272:ILE:HG13	2.20	0.41
4:Q:851:SER:O	4:Q:851:SER:OG	2.33	0.41
4:Q:1305:ASN:OD1	4:Q:1305:ASN:N	2.51	0.41
5:R:866:GLN:OE1	5:R:940:ASN:HB2	2.20	0.41
5:R:914:ASP:CG	5:R:917:PHE:CB	2.89	0.41
5:R:1370:LEU:C	5:R:1371:ILE:CG1	2.89	0.41
8:U:792:GLN:HB2	8:U:795:LYS:CG	2.48	0.41
6:V:382:LYS:HE2	6:V:382:LYS:CA	2.51	0.41
1:Z:49:LEU:C	1:Z:49:LEU:HD13	2.40	0.41
1:A:19:ASN:HA	1:A:22:LEU:CG	2.51	0.41
1:A:451:ASP:OD1	1:A:455:GLU:HB2	2.21	0.41
1:A:533:ARG:HE	1:A:534:PHE:N	2.19	0.41
3:D:422:LYS:HE2	3:D:524:THR:OG1	2.21	0.41
3:D:585:ILE:HG23	3:D:586:LEU:HD12	2.03	0.41
3:D:713:ILE:CD1	3:D:769:ARG:HD3	2.48	0.41
4:E:904:LEU:HD23	4:E:907:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:917:PRO:O	4:E:964:GLN:NE2	2.52	0.41
4:E:1262:LEU:HD23	4:E:1262:LEU:HA	1.91	0.41
4:E:1319:LEU:CD2	4:E:1398:VAL:HG22	2.46	0.41
5:F:37:LEU:HD22	5:F:146:SER:HB2	2.02	0.41
5:F:68:GLN:HA	5:F:71:ILE:HD13	2.03	0.41
5:F:321:GLN:O	5:F:325:PHE:HB3	2.21	0.41
5:F:486:TYR:HD1	5:F:532:SER:HB3	1.86	0.41
5:F:662:PRO:HG3	5:F:715:ASN:ND2	2.36	0.41
5:F:885:GLU:O	5:F:885:GLU:CG	2.68	0.41
5:F:1139:ILE:HG12	5:F:1291:SER:HG	1.86	0.41
5:F:1431:ARG:HD2	5:F:1474:PHE:N	2.36	0.41
5:F:1550:LEU:HD12	5:F:1604:ILE:HG21	2.01	0.41
6:J:309:PRO:HA	6:J:312:VAL:CB	2.50	0.41
6:J:389:ARG:HG2	6:J:389:ARG:NH1	2.29	0.41
6:J:405:LEU:CD1	7:K:469:ARG:CG	2.91	0.41
6:J:406:PHE:O	6:J:409:PRO:HD2	2.21	0.41
7:K:315:LYS:HD2	7:K:347:THR:HG22	2.03	0.41
7:K:427:LEU:N	7:K:427:LEU:HD22	2.36	0.41
7:K:503:ASN:HB2	7:K:506:ILE:HD13	2.03	0.41
7:K:509:ILE:HA	7:K:512:ILE:HB	2.01	0.41
8:L:653:SER:O	8:L:657:GLN:HG2	2.21	0.41
1:N:254:LEU:HD12	1:N:254:LEU:HA	1.87	0.41
1:N:453:VAL:HG21	4:Q:1356:LEU:CB	2.49	0.41
1:N:565:GLY:O	1:N:569:VAL:N	2.51	0.41
1:N:822:TYR:HB3	1:N:824:MET:SD	2.60	0.41
4:Q:867:ASP:OD1	4:Q:867:ASP:N	2.52	0.41
5:R:160:GLN:HA	5:R:163:ASN:ND2	2.36	0.41
5:R:212:PHE:O	5:R:215:SER:OG	2.36	0.41
5:R:777:GLN:NE2	5:R:839:SER:OG	2.50	0.41
5:R:1027:GLN:CG	5:R:1027:GLN:O	2.69	0.41
5:R:1110:MET:HE3	5:R:1157:TRP:CZ2	2.53	0.41
5:R:1298:LEU:HD23	5:R:1298:LEU:HA	1.79	0.41
5:R:1300:LEU:HD23	5:R:1301:SER:N	2.36	0.41
5:R:1305:SER:O	5:R:1309:LEU:N	2.33	0.41
5:R:1508:ILE:HG22	5:R:1511:LEU:HD23	2.02	0.41
8:U:795:LYS:CA	8:U:795:LYS:HZ3	2.34	0.41
8:U:795:LYS:HZ3	8:U:795:LYS:CB	2.34	0.41
6:V:368:ASP:HA	6:V:371:LYS:CB	2.51	0.41
6:V:381:GLU:OE2	6:V:381:GLU:CA	2.69	0.41
6:V:389:ARG:O	6:V:389:ARG:CZ	2.69	0.41
7:W:433:GLU:HB2	8:X:741:ARG:HE	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:W:454:GLY:O	7:W:456:THR:N	2.52	0.41
7:W:508:LYS:NZ	1:Z:12:SER:OG	2.29	0.41
7:W:526:VAL:HG13	7:W:529:LYS:NZ	2.36	0.41
1:Z:81:GLU:H	1:Z:81:GLU:HG3	1.54	0.41
1:Z:239:ILE:HG23	1:Z:258:LYS:HZ2	1.85	0.41
1:Z:551:ARG:NH2	1:Z:606:GLU:OE2	2.46	0.41
1:A:603:VAL:O	1:A:606:GLU:HG2	2.21	0.41
1:A:650:TYR:CG	1:A:702:ILE:HG23	2.55	0.41
2:C:1388:HIS:O	4:E:1331:LEU:HD13	2.19	0.41
3:D:430:GLU:OE1	3:D:528:PRO:HD3	2.18	0.41
5:F:150:PHE:HD1	5:F:150:PHE:HA	1.75	0.41
5:F:651:GLY:HA3	5:F:705:ASP:HA	2.03	0.41
5:F:863:GLU:HA	5:F:866:GLN:HE21	1.86	0.41
5:F:1158:THR:HG22	5:F:1197:PHE:CD2	2.55	0.41
8:I:795:LYS:NZ	8:I:795:LYS:CB	2.84	0.41
1:M:538:LEU:HD13	1:M:556:TYR:O	2.21	0.41
1:M:586:PHE:CD2	1:M:642:LEU:HD11	2.56	0.41
1:M:776:ILE:HD11	1:M:828:THR:HG23	2.03	0.41
1:N:305:ILE:HG23	1:N:339:TYR:HD2	1.86	0.41
3:P:387:LEU:HA	3:P:391:MET:HE1	2.03	0.41
4:Q:366:SER:HB3	4:Q:379:ILE:HD13	2.03	0.41
4:Q:370:SER:O	4:Q:372:ASP:N	2.48	0.41
4:Q:672:VAL:HG12	4:Q:676:LEU:HD12	2.02	0.41
4:Q:927:LYS:O	4:Q:931:PHE:N	2.37	0.41
5:R:651:GLY:HA3	5:R:705:ASP:HA	2.03	0.41
5:R:1167:LYS:HE3	5:R:1167:LYS:CA	2.27	0.41
5:R:1493:LYS:HA	5:R:1493:LYS:HD2	1.66	0.41
7:W:305:LYS:O	7:W:307:LYS:HE2	2.21	0.41
7:W:373:ARG:HH21	7:W:377:ASN:ND2	2.19	0.41
3:D:135:PHE:HD1	3:D:596:ALA:HB3	1.86	0.40
3:D:421:VAL:HG22	3:D:491:ARG:N	2.35	0.40
3:D:673:TYR:O	3:D:677:GLU:HB2	2.22	0.40
3:D:1134:SER:OG	1:N:206:ASN:C	2.60	0.40
4:E:79:LEU:HD11	4:E:99:VAL:HG22	2.03	0.40
4:E:980:LYS:O	4:E:980:LYS:CG	2.69	0.40
5:F:25:PHE:HB3	5:F:26:LYS:NZ	2.36	0.40
5:F:918:PHE:HA	5:F:922:LEU:HD11	2.03	0.40
5:F:1442:TRP:NE1	5:F:1484:ARG:HB3	2.36	0.40
5:F:1543:LEU:C	5:F:1543:LEU:CD1	2.88	0.40
6:G:319:GLU:HA	6:G:322:THR:HG22	2.03	0.40
6:G:470:LEU:CB	7:H:538:LYS:HZ3	2.17	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:815:GLU:HB3	8:I:816:LYS:CE	2.51	0.40
7:K:408:ILE:O	7:K:412:ILE:HG13	2.22	0.40
8:L:703:GLN:OE1	8:L:704:GLN:N	2.54	0.40
8:L:800:HIS:O	8:L:804:LEU:CB	2.65	0.40
1:M:775:LEU:HB3	1:M:832:LEU:HG	2.04	0.40
1:N:199:ARG:HH12	1:N:500:GLU:H	1.69	0.40
1:N:493:ASP:HA	1:N:496:TYR:CD2	2.56	0.40
1:N:817:ALA:C	1:N:821:GLN:H	2.13	0.40
2:O:1389:GLY:HA2	4:Q:1331:LEU:HD11	2.02	0.40
3:P:157:PRO:HD2	3:P:160:ILE:HD12	2.03	0.40
3:P:1136:ASP:HB2	1:Z:203:ASN:O	1.96	0.40
5:R:68:GLN:HA	5:R:71:ILE:HD13	2.03	0.40
5:R:864:LEU:HD12	5:R:864:LEU:HA	1.81	0.40
5:R:971:SER:HB3	7:T:392:LEU:CD2	2.50	0.40
5:R:1004:ASP:HA	5:R:1007:THR:HB	2.03	0.40
6:S:350:PHE:HE2	7:T:418:GLN:HE22	1.63	0.40
7:T:527:LEU:HD23	7:T:527:LEU:O	2.21	0.40
6:V:345:LEU:O	6:V:349:THR:HG23	2.21	0.40
7:W:446:ARG:O	7:W:446:ARG:CD	2.69	0.40
8:X:653:SER:O	8:X:657:GLN:HG2	2.21	0.40
1:Z:90:LEU:HD23	1:Z:90:LEU:HA	1.69	0.40
1:A:776:ILE:HD11	1:A:828:THR:HG23	2.03	0.40
3:D:828:ILE:HG13	3:D:828:ILE:O	2.20	0.40
4:E:22:MET:HE1	4:E:122:ILE:HG21	2.03	0.40
5:F:245:ARG:HH22	5:F:288:TRP:N	2.18	0.40
5:F:633:LYS:HA	5:F:633:LYS:HD2	1.82	0.40
5:F:914:ASP:CG	5:F:917:PHE:CB	2.90	0.40
5:F:964:LYS:O	5:F:964:LYS:CG	2.69	0.40
5:F:1309:LEU:O	5:F:1309:LEU:CD2	2.68	0.40
5:F:1359:PHE:O	5:F:1359:PHE:CD1	2.74	0.40
8:I:818:ILE:HD12	8:I:818:ILE:HA	1.80	0.40
6:J:319:GLU:CA	6:J:322:THR:HG22	2.42	0.40
6:J:356:GLN:HB3	7:K:423:LYS:NZ	2.36	0.40
6:J:371:LYS:NZ	6:J:371:LYS:C	2.70	0.40
1:M:607:ARG:O	1:M:611:LEU:HG	2.21	0.40
1:M:687:LEU:HA	1:M:690:ARG:HH11	1.87	0.40
1:N:444:LYS:HA	1:N:444:LYS:HD3	1.90	0.40
3:P:422:LYS:HE2	3:P:524:THR:OG1	2.21	0.40
4:Q:22:MET:HE3	4:Q:122:ILE:HD13	2.02	0.40
5:R:405:ARG:HH12	5:R:407:ASN:HB3	1.86	0.40
5:R:841:PHE:HZ	5:R:922:LEU:HB2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:968:ILE:HA	7:T:392:LEU:HD11	2.02	0.40
6:S:450:PHE:O	6:S:454:ALA:HB2	2.21	0.40
7:T:293:LEU:HD23	7:T:293:LEU:HA	1.95	0.40
8:U:815:GLU:HB3	8:U:816:LYS:HE3	2.02	0.40
8:U:816:LYS:N	8:U:816:LYS:CE	2.84	0.40
6:V:389:ARG:NH1	6:V:389:ARG:HA	2.35	0.40
1:A:32:LEU:CD2	1:A:32:LEU:O	2.70	0.40
1:A:775:LEU:CD1	1:A:832:LEU:CD1	2.95	0.40
2:C:899:ALA:CB	2:C:941:ASN:HD22	2.34	0.40
3:D:328:LEU:CD1	3:D:334:VAL:HG22	2.50	0.40
3:D:371:LEU:HD21	3:D:420:ILE:HG22	2.04	0.40
4:E:1418:LEU:HD13	4:E:1460:LEU:HG	2.04	0.40
5:F:90:GLU:HA	5:F:93:LEU:HB2	2.03	0.40
5:F:463:SER:O	5:F:463:SER:OG	2.31	0.40
5:F:1060:LEU:HD12	5:F:1060:LEU:HA	1.68	0.40
5:F:1300:LEU:HD23	5:F:1301:SER:N	2.36	0.40
5:F:1360:LEU:N	5:F:1360:LEU:HD12	2.37	0.40
5:F:1364:TYR:HB2	5:F:1374:LYS:CB	2.52	0.40
7:H:394:THR:O	7:H:398:ILE:HB	2.21	0.40
8:L:658:TYR:HE1	8:L:665:TRP:HZ3	1.69	0.40
1:M:232:PHE:CZ	1:M:237:GLU:HG3	2.56	0.40
1:M:495:THR:HG22	1:M:503:ALA:HB2	2.03	0.40
1:M:772:PRO:HA	1:M:828:THR:HG21	1.87	0.40
3:P:903:ILE:HG12	3:P:953:PHE:CD1	2.56	0.40
4:Q:948:LEU:HD12	4:Q:948:LEU:HA	1.91	0.40
5:R:321:GLN:O	5:R:325:PHE:HB3	2.21	0.40
5:R:765:ASP:OD1	5:R:765:ASP:N	2.51	0.40
5:R:844:VAL:HG23	5:R:865:LEU:HD12	2.03	0.40
5:R:1026:PHE:CE1	5:R:1049:LEU:HD11	2.57	0.40
8:U:795:LYS:NZ	8:U:795:LYS:CB	2.84	0.40
6:V:371:LYS:O	6:V:371:LYS:CE	2.69	0.40
6:V:375:LYS:HZ2	6:V:375:LYS:HG2	1.69	0.40
6:V:420:ASP:HB2	6:V:436:LEU:HD22	2.04	0.40
7:W:309:ARG:HE	7:W:353:TYR:HE2	1.69	0.40
1:Z:493:ASP:HA	1:Z:496:TYR:CD2	2.56	0.40
1:A:16:LYS:HD2	1:A:16:LYS:HA	1.67	0.40
1:A:679:ASP:CG	1:A:684:ASN:HD22	2.24	0.40
3:D:391:MET:SD	3:D:457:ILE:HD11	2.62	0.40
3:D:574:HIS:HD1	3:D:576:LEU:HD12	1.87	0.40
4:E:1451:CYS:HA	4:E:1457:ALA:HB2	2.04	0.40
4:E:1529:ILE:HG21	4:E:1589:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:210:LYS:HB3	5:F:210:LYS:HE2	1.78	0.40
5:F:296:ARG:H	5:F:296:ARG:HG3	1.71	0.40
5:F:607:ILE:HD12	5:F:607:ILE:HA	1.99	0.40
5:F:825:ILE:O	5:F:825:ILE:CG2	2.69	0.40
5:F:1193:ARG:HD2	5:F:1195:PHE:CE1	2.56	0.40
6:J:334:SER:C	6:J:336:PHE:H	2.15	0.40
6:J:420:ASP:HB2	6:J:436:LEU:HD22	2.04	0.40
7:K:341:LYS:HE2	7:K:341:LYS:HB2	1.89	0.40
8:L:679:LEU:O	8:L:682:ASP:HB2	2.20	0.40
1:M:24:GLU:HG3	1:Z:26:LEU:HD12	1.91	0.40
1:M:533:ARG:HE	1:M:534:PHE:N	2.19	0.40
1:M:696:TYR:CD1	1:M:702:ILE:HG21	2.57	0.40
1:N:551:ARG:NH2	1:N:606:GLU:OE2	2.46	0.40
1:N:658:ASN:O	1:N:662:SER:CB	2.70	0.40
2:O:899:ALA:CB	2:O:941:ASN:HD22	2.35	0.40
2:O:1258:GLN:CG	2:O:1299:LYS:HZ1	2.22	0.40
3:P:311:LYS:HA	3:P:311:LYS:HD2	1.94	0.40
3:P:846:ILE:HG13	3:P:907:LEU:CD1	2.51	0.40
3:P:924:ASN:O	3:P:925:GLN:HB2	2.21	0.40
4:Q:369:LEU:HD23	4:Q:375:TYR:CD2	2.56	0.40
5:R:245:ARG:HH22	5:R:288:TRP:N	2.18	0.40
5:R:825:ILE:O	5:R:825:ILE:CG2	2.69	0.40
5:R:885:GLU:O	5:R:885:GLU:CG	2.68	0.40
5:R:964:LYS:CG	5:R:964:LYS:O	2.68	0.40
5:R:1083:ILE:O	5:R:1087:CYS:HB3	2.22	0.40
5:R:1144:VAL:HG11	5:R:1291:SER:OG	2.20	0.40
5:R:1310:VAL:O	5:R:1310:VAL:CG1	2.67	0.40
5:R:1458:LEU:HD23	5:R:1458:LEU:HA	1.88	0.40
6:S:295:LYS:C	6:V:363:LYS:HZ1	2.24	0.40
7:T:394:THR:O	7:T:398:ILE:HB	2.21	0.40
7:W:339:MET:HG3	7:W:339:MET:O	2.22	0.40
7:W:427:LEU:N	7:W:427:LEU:HD22	2.36	0.40
7:W:429:LEU:C	7:W:429:LEU:CD1	2.85	0.40
7:W:515:ASN:ND2	1:Z:20:LYS:HZ1	2.19	0.40
8:X:800:HIS:O	8:X:804:LEU:CB	2.65	0.40
1:A:48:GLU:CB	7:K:514:THR:HG21	2.52	0.40
1:A:495:THR:HG22	1:A:503:ALA:HB2	2.03	0.40
1:A:614:ARG:HB2	1:A:618:GLU:OE1	2.22	0.40
1:A:687:LEU:HA	1:A:690:ARG:HH11	1.86	0.40
1:A:696:TYR:CD1	1:A:702:ILE:HG21	2.57	0.40
3:D:157:PRO:HD2	3:D:160:ILE:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:939:LEU:HB3	4:E:997:VAL:HG11	2.04	0.40
4:E:1075:ILE:HA	4:E:1078:ILE:HG22	2.03	0.40
4:E:1133:LYS:HD2	4:E:1133:LYS:HA	1.90	0.40
5:F:1157:TRP:CD1	5:F:1161:LEU:HD13	2.56	0.40
5:F:1177:VAL:O	5:F:1180:TYR:CB	2.70	0.40
5:F:1660:ASN:O	5:F:1664:ASN:ND2	2.54	0.40
6:J:405:LEU:O	6:J:405:LEU:CG	2.69	0.40
6:J:411:ASN:OD1	6:J:411:ASN:N	2.41	0.40
7:K:433:GLU:HB2	8:L:741:ARG:HE	1.85	0.40
7:K:446:ARG:O	7:K:446:ARG:CD	2.69	0.40
1:M:451:ASP:OD1	1:M:455:GLU:HB2	2.21	0.40
1:N:305:ILE:HD12	1:N:339:TYR:HB3	2.02	0.40
3:P:586:LEU:HD11	3:P:593:VAL:H	1.86	0.40
3:P:682:ALA:O	3:P:699:ALA:HB1	2.21	0.40
3:P:831:LYS:HB2	3:P:929:PHE:CE2	2.56	0.40
5:R:914:ASP:OD1	5:R:917:PHE:CB	2.66	0.40
5:R:1511:LEU:HD12	5:R:1514:GLU:HB2	2.03	0.40
5:R:1660:ASN:O	5:R:1664:ASN:ND2	2.54	0.40
7:T:426:GLY:CA	8:U:736:ASN:HB2	2.51	0.40
7:W:315:LYS:HD2	7:W:347:THR:HG22	2.03	0.40
7:W:518:ARG:CB	7:W:518:ARG:NH1	2.72	0.40
7:W:529:LYS:HD2	7:W:530:ASP:N	2.36	0.40
8:X:640:LEU:HA	8:X:643:LYS:CB	2.51	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	722/839 (86%)	702 (97%)	18 (2%)	2 (0%)	41 74
1	M	719/839 (86%)	699 (97%)	18 (2%)	2 (0%)	41 74

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	N	736/839 (88%)	680 (92%)	39 (5%)	17 (2%)	6	38
1	Z	736/839 (88%)	681 (92%)	38 (5%)	17 (2%)	6	38
2	C	1323/1391 (95%)	1269 (96%)	41 (3%)	13 (1%)	15	51
2	O	1323/1391 (95%)	1270 (96%)	40 (3%)	13 (1%)	15	51
3	D	1396/1502 (93%)	1275 (91%)	113 (8%)	8 (1%)	25	61
3	P	1396/1502 (93%)	1275 (91%)	113 (8%)	8 (1%)	25	61
4	E	1538/1655 (93%)	1374 (89%)	150 (10%)	14 (1%)	17	53
4	Q	1538/1655 (93%)	1376 (90%)	149 (10%)	13 (1%)	19	56
5	F	1616/1683 (96%)	1200 (74%)	321 (20%)	95 (6%)	1	20
5	R	1616/1683 (96%)	1196 (74%)	324 (20%)	96 (6%)	1	20
6	G	198/472 (42%)	188 (95%)	9 (4%)	1 (0%)	29	65
6	J	191/472 (40%)	172 (90%)	15 (8%)	4 (2%)	7	40
6	S	198/472 (42%)	188 (95%)	9 (4%)	1 (0%)	29	65
6	V	191/472 (40%)	171 (90%)	16 (8%)	4 (2%)	7	40
7	H	242/541 (45%)	202 (84%)	36 (15%)	4 (2%)	9	43
7	K	252/541 (47%)	208 (82%)	33 (13%)	11 (4%)	2	25
7	T	242/541 (45%)	202 (84%)	36 (15%)	4 (2%)	9	43
7	W	252/541 (47%)	209 (83%)	32 (13%)	11 (4%)	2	25
8	I	185/823 (22%)	158 (85%)	16 (9%)	11 (6%)	1	20
8	L	185/823 (22%)	164 (89%)	15 (8%)	6 (3%)	4	32
8	U	185/823 (22%)	158 (85%)	16 (9%)	11 (6%)	1	20
8	X	185/823 (22%)	164 (89%)	15 (8%)	6 (3%)	4	32
All	All	17165/23162 (74%)	15181 (88%)	1612 (9%)	372 (2%)	10	39

All (372) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	44	VAL
2	C	319	PRO
2	C	468	PHE
2	C	476	ASN
2	C	694	PHE
2	C	1255	SER
3	D	528	PRO

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Mol	Chain	Res	Type
3	D	665	ASN
3	D	1000	ASP
3	D	1128	GLN
3	D	1134	SER
4	E	923	LEU
4	E	986	SER
4	E	989	ASP
4	E	990	LYS
5	F	353	PRO
5	F	357	PRO
5	F	380	ALA
5	F	391	ASN
5	F	394	TYR
5	F	395	PRO
5	F	410	PRO
5	F	823	PRO
5	F	825	ILE
5	F	885	GLU
5	F	888	PRO
5	F	919	ASN
5	F	921	PRO
5	F	934	ASP
5	F	935	GLN
5	F	1031	VAL
5	F	1036	PRO
5	F	1090	PRO
5	F	1188	THR
5	F	1195	PHE
5	F	1295	ALA
5	F	1314	VAL
5	F	1371	ILE
5	F	1381	LEU
5	F	1387	THR
5	F	1392	ILE
5	F	1395	PRO
6	G	425	GLU
7	H	506	ILE
7	H	507	ASN
8	I	732	ALA
8	I	740	LYS
8	I	793	LEU
8	I	799	SER

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Mol	Chain	Res	Type
6	J	338	SER
6	J	339	LEU
6	J	405	LEU
6	J	438	ALA
7	K	321	ALA
7	K	449	ASP
7	K	450	PRO
7	K	457	ASN
8	L	780	THR
8	L	781	ASN
1	M	44	VAL
1	N	44	VAL
1	N	92	THR
1	N	751	LEU
1	N	752	SER
1	N	765	ASP
1	N	767	ILE
1	N	824	MET
2	O	319	PRO
2	O	468	PHE
2	O	476	ASN
2	O	694	PHE
2	O	1255	SER
3	P	528	PRO
3	P	665	ASN
3	P	1000	ASP
3	P	1128	GLN
3	P	1134	SER
4	Q	259	SER
4	Q	923	LEU
4	Q	986	SER
4	Q	989	ASP
4	Q	990	LYS
5	R	353	PRO
5	R	357	PRO
5	R	380	ALA
5	R	391	ASN
5	R	394	TYR
5	R	395	PRO
5	R	410	PRO
5	R	823	PRO
5	R	825	ILE

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Mol	Chain	Res	Type
5	R	885	GLU
5	R	888	PRO
5	R	919	ASN
5	R	921	PRO
5	R	922	LEU
5	R	934	ASP
5	R	935	GLN
5	R	1031	VAL
5	R	1036	PRO
5	R	1090	PRO
5	R	1188	THR
5	R	1195	PHE
5	R	1295	ALA
5	R	1314	VAL
5	R	1371	ILE
5	R	1381	LEU
5	R	1387	THR
5	R	1392	ILE
5	R	1395	PRO
6	S	425	GLU
7	T	506	ILE
7	T	507	ASN
8	U	732	ALA
8	U	740	LYS
8	U	793	LEU
8	U	799	SER
6	V	338	SER
6	V	339	LEU
6	V	438	ALA
7	W	321	ALA
7	W	449	ASP
7	W	450	PRO
7	W	457	ASN
7	W	505	ARG
8	X	780	THR
8	X	781	ASN
1	Z	44	VAL
1	Z	92	THR
1	Z	751	LEU
1	Z	752	SER
1	Z	765	ASP
1	Z	767	ILE

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Mol	Chain	Res	Type
1	Z	824	MET
2	C	526	ASN
4	E	262	SER
4	E	263	SER
4	E	701	SER
4	E	1248	THR
5	F	361	LEU
5	F	396	GLY
5	F	412	ASN
5	F	922	LEU
5	F	926	LEU
5	F	936	ILE
5	F	958	SER
5	F	964	LYS
5	F	974	GLU
5	F	1035	GLY
5	F	1039	ALA
5	F	1041	PHE
5	F	1062	SER
5	F	1124	GLY
5	F	1134	LYS
5	F	1135	CYS
5	F	1189	MET
5	F	1204	GLY
5	F	1210	LYS
5	F	1374	LYS
5	F	1389	ILE
5	F	1421	VAL
7	H	319	THR
7	H	424	ASN
8	I	728	THR
7	K	405	ASN
7	K	501	GLU
7	K	504	ASP
7	K	505	ARG
8	L	779	THR
1	N	821	GLN
2	O	526	ASN
4	Q	701	SER
4	Q	1248	THR
5	R	361	LEU
5	R	396	GLY

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Mol	Chain	Res	Type
5	R	412	ASN
5	R	926	LEU
5	R	936	ILE
5	R	958	SER
5	R	964	LYS
5	R	974	GLU
5	R	1035	GLY
5	R	1039	ALA
5	R	1041	PHE
5	R	1059	SER
5	R	1062	SER
5	R	1124	GLY
5	R	1134	LYS
5	R	1135	CYS
5	R	1189	MET
5	R	1204	GLY
5	R	1210	LYS
5	R	1374	LYS
5	R	1389	ILE
5	R	1421	VAL
7	T	319	THR
7	T	424	ASN
8	U	728	THR
6	V	403	THR
7	W	405	ASN
7	W	501	GLU
7	W	504	ASP
8	X	779	THR
1	Z	821	GLN
1	A	134	LYS
2	C	75	ASP
2	C	334	ASP
2	C	479	ASP
4	E	980	LYS
5	F	335	ASP
5	F	350	ARG
5	F	358	LYS
5	F	367	PHE
5	F	381	THR
5	F	406	LEU
5	F	591	ASP
5	F	902	LYS

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Mol	Chain	Res	Type
5	F	1030	ASN
5	F	1038	LEU
5	F	1059	SER
5	F	1064	THR
5	F	1084	LEU
5	F	1123	ASN
5	F	1193	ARG
5	F	1200	PRO
5	F	1269	GLU
5	F	1370	LEU
5	F	1396	LEU
5	F	1675	THR
8	I	738	ASP
8	I	789	GLU
8	I	790	ASN
7	K	392	LEU
8	L	783	ASP
1	M	134	LYS
1	N	134	LYS
1	N	825	PRO
2	O	75	ASP
2	O	334	ASP
2	O	479	ASP
4	Q	980	LYS
5	R	335	ASP
5	R	350	ARG
5	R	358	LYS
5	R	367	PHE
5	R	381	THR
5	R	406	LEU
5	R	591	ASP
5	R	902	LYS
5	R	1030	ASN
5	R	1038	LEU
5	R	1064	THR
5	R	1084	LEU
5	R	1123	ASN
5	R	1193	ARG
5	R	1200	PRO
5	R	1269	GLU
5	R	1370	LEU
5	R	1396	LEU

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Mol	Chain	Res	Type
5	R	1557	PRO
5	R	1675	THR
8	U	738	ASP
8	U	789	GLU
8	U	790	ASN
7	W	392	LEU
8	X	783	ASP
1	Z	134	LYS
1	Z	825	PRO
2	C	315	THR
2	C	1252	ASP
3	D	1441	ASN
5	F	363	ASP
5	F	444	THR
5	F	816	PHE
5	F	930	VAL
5	F	951	ARG
5	F	1067	ASN
5	F	1187	ASN
5	F	1236	ILE
5	F	1361	PHE
5	F	1372	THR
5	F	1676	LEU
7	K	455	LYS
1	N	91	GLN
1	N	250	ASN
1	N	648	GLU
1	N	762	ASN
1	N	771	ILE
1	N	777	ILE
2	O	315	THR
2	O	1252	ASP
3	P	1441	ASN
5	R	363	ASP
5	R	444	THR
5	R	816	PHE
5	R	930	VAL
5	R	951	ARG
5	R	1067	ASN
5	R	1129	ASN
5	R	1187	ASN
5	R	1236	ILE

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Mol	Chain	Res	Type
5	R	1361	PHE
5	R	1372	THR
5	R	1676	LEU
7	W	455	LYS
1	Z	91	GLN
1	Z	648	GLU
1	Z	762	ASN
1	Z	771	ILE
1	Z	777	ILE
3	D	998	ALA
4	E	702	THR
4	E	977	ALA
4	E	1027	TRP
5	F	713	PHE
5	F	1122	TRP
5	F	1129	ASN
5	F	1194	LEU
5	F	1420	GLN
1	N	828	THR
3	P	998	ALA
4	Q	702	THR
4	Q	977	ALA
4	Q	1027	TRP
5	R	713	PHE
5	R	1122	TRP
5	R	1194	LEU
5	R	1420	GLN
1	Z	245	ALA
1	Z	828	THR
2	C	684	GLY
5	F	352	ILE
5	F	923	VAL
5	F	1296	LEU
5	F	1307	VAL
5	F	1365	ASN
5	F	1390	GLN
8	I	798	ASN
8	L	704	GLN
5	R	352	ILE
5	R	923	VAL
5	R	1296	LEU
5	R	1307	VAL

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Mol	Chain	Res	Type
5	R	1365	ASN
5	R	1390	GLN
8	U	798	ASN
8	X	704	GLN
4	E	1489	PRO
8	L	794	ILE
2	O	684	GLY
4	Q	1489	PRO
8	X	794	ILE
8	I	782	ILE
7	K	427	LEU
8	U	782	ILE
7	W	427	LEU
3	D	993	GLY
4	E	974	GLY
5	F	1032	ILE
5	F	1063	ILE
3	P	993	GLY
4	Q	974	GLY
5	R	1032	ILE
5	R	1063	ILE
5	F	422	VAL
8	I	791	ILE
5	R	422	VAL
8	U	791	ILE
2	C	469	ILE
5	F	1266	VAL
2	O	469	ILE
5	R	1266	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	608/762 (80%)	583 (96%)	25 (4%)	30 59
1	M	605/762 (79%)	578 (96%)	27 (4%)	27 57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	N	609/762 (80%)	554 (91%)	55 (9%)	9	37
1	Z	609/762 (80%)	554 (91%)	55 (9%)	9	37
2	C	1177/1250 (94%)	1152 (98%)	25 (2%)	53	74
2	O	1177/1250 (94%)	1152 (98%)	25 (2%)	53	74
3	D	1212/1353 (90%)	1199 (99%)	13 (1%)	73	85
3	P	1210/1353 (89%)	1197 (99%)	13 (1%)	73	85
4	E	1421/1557 (91%)	1397 (98%)	24 (2%)	60	79
4	Q	1421/1557 (91%)	1397 (98%)	24 (2%)	60	79
5	F	1261/1538 (82%)	1165 (92%)	96 (8%)	13	43
5	R	1261/1538 (82%)	1163 (92%)	98 (8%)	12	43
6	G	167/377 (44%)	165 (99%)	2 (1%)	71	84
6	J	162/377 (43%)	145 (90%)	17 (10%)	7	31
6	S	166/377 (44%)	164 (99%)	2 (1%)	71	84
6	V	162/377 (43%)	148 (91%)	14 (9%)	10	40
7	H	171/439 (39%)	166 (97%)	5 (3%)	42	66
7	K	153/439 (35%)	134 (88%)	19 (12%)	4	24
7	T	171/439 (39%)	166 (97%)	5 (3%)	42	66
7	W	152/439 (35%)	128 (84%)	24 (16%)	2	17
8	I	152/674 (23%)	135 (89%)	17 (11%)	6	29
8	L	138/674 (20%)	137 (99%)	1 (1%)	84	91
8	U	152/674 (23%)	135 (89%)	17 (11%)	6	29
8	X	138/674 (20%)	137 (99%)	1 (1%)	84	91
All	All	14455/20404 (71%)	13851 (96%)	604 (4%)	33	58

All (604) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	ASN
1	A	21	LYS
1	A	24	GLU
1	A	29	SER
1	A	45	SER
1	A	53	VAL
1	A	54	PHE

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Mol	Chain	Res	Type
1	A	57	ARG
1	A	79	SER
1	A	82	ASP
1	A	115	THR
1	A	116	LYS
1	A	119	GLU
1	A	122	LEU
1	A	130	ASN
1	A	134	LYS
1	A	137	ASP
1	A	138	ASN
1	A	139	PHE
1	A	543	LYS
1	A	617	LYS
1	A	827	GLU
1	A	829	TYR
1	A	830	SER
1	A	833	ILE
2	C	68	THR
2	C	85	LEU
2	C	294	LEU
2	C	315	THR
2	C	318	ILE
2	C	326	LEU
2	C	331	LEU
2	C	337	THR
2	C	462	LEU
2	C	476	ASN
2	C	520	LEU
2	C	530	LEU
2	C	577	PHE
2	C	691	GLN
2	C	695	ASP
2	C	826	LEU
2	C	828	THR
2	C	896	CYS
2	C	1034	SER
2	C	1252	ASP
2	C	1253	VAL
2	C	1262	LEU
2	C	1299	LYS
2	C	1301	SER

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Mol	Chain	Res	Type
2	C	1387	HIS
3	D	445	ARG
3	D	528	PRO
3	D	980	SER
3	D	982	GLU
3	D	990	GLU
3	D	995	PHE
3	D	1000	ASP
3	D	1115	VAL
3	D	1118	LEU
3	D	1129	ASN
3	D	1160	HIS
3	D	1472	ILE
3	D	1495	LEU
4	E	138	VAL
4	E	260	ARG
4	E	261	ILE
4	E	336	GLN
4	E	771	LEU
4	E	773	LEU
4	E	791	ASP
4	E	827	PRO
4	E	843	LEU
4	E	923	LEU
4	E	931	PHE
4	E	975	GLN
4	E	976	PHE
4	E	980	LYS
4	E	984	ASP
4	E	986	SER
4	E	1026	THR
4	E	1077	ARG
4	E	1164	ASP
4	E	1259	PHE
4	E	1301	LYS
4	E	1313	ARG
4	E	1557	LEU
4	E	1597	ARG
5	F	64	PHE
5	F	164	LYS
5	F	331	ILE
5	F	334	GLN

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Mol	Chain	Res	Type
5	F	356	ILE
5	F	389	LEU
5	F	397	MET
5	F	399	SER
5	F	407	ASN
5	F	408	SER
5	F	409	MET
5	F	444	THR
5	F	556	LYS
5	F	644	LYS
5	F	712	LEU
5	F	745	ARG
5	F	750	TRP
5	F	782	LYS
5	F	815	PHE
5	F	825	ILE
5	F	836	ILE
5	F	837	TYR
5	F	888	PRO
5	F	900	LEU
5	F	920	ILE
5	F	921	PRO
5	F	926	LEU
5	F	928	LEU
5	F	934	ASP
5	F	950	GLU
5	F	951	ARG
5	F	955	SER
5	F	958	SER
5	F	962	ARG
5	F	965	LEU
5	F	1029	SER
5	F	1041	PHE
5	F	1060	LEU
5	F	1068	ILE
5	F	1090	PRO
5	F	1092	THR
5	F	1118	ARG
5	F	1128	ASP
5	F	1129	ASN
5	F	1144	VAL
5	F	1147	PHE

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Mol	Chain	Res	Type
5	F	1149	SER
5	F	1150	PHE
5	F	1153	TYR
5	F	1155	ASN
5	F	1159	GLN
5	F	1165	ILE
5	F	1166	HIS
5	F	1167	LYS
5	F	1169	SER
5	F	1170	PHE
5	F	1181	VAL
5	F	1191	SER
5	F	1192	VAL
5	F	1210	LYS
5	F	1273	LYS
5	F	1276	ASP
5	F	1277	VAL
5	F	1278	GLU
5	F	1280	ILE
5	F	1281	LYS
5	F	1283	LYS
5	F	1285	HIS
5	F	1286	PHE
5	F	1289	ILE
5	F	1291	SER
5	F	1293	ASN
5	F	1296	LEU
5	F	1297	GLU
5	F	1300	LEU
5	F	1301	SER
5	F	1302	VAL
5	F	1303	LEU
5	F	1309	LEU
5	F	1314	VAL
5	F	1315	THR
5	F	1349	PHE
5	F	1356	LEU
5	F	1361	PHE
5	F	1364	TYR
5	F	1365	ASN
5	F	1372	THR
5	F	1373	ASP

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Mol	Chain	Res	Type
5	F	1382	TYR
5	F	1387	THR
5	F	1417	LEU
5	F	1484	ARG
5	F	1550	LEU
5	F	1634	LYS
5	F	1635	ARG
5	F	1680	GLN
6	G	411	ASN
6	G	460	LEU
7	H	325	THR
7	H	418	GLN
7	H	507	ASN
7	H	508	LYS
7	H	529	LYS
8	I	688	HIS
8	I	727	SER
8	I	736	ASN
8	I	740	LYS
8	I	778	LYS
8	I	792	GLN
8	I	795	LYS
8	I	797	LEU
8	I	808	ASP
8	I	810	ASN
8	I	812	THR
8	I	815	GLU
8	I	818	ILE
8	I	819	ASN
8	I	821	ILE
8	I	822	LYS
8	I	823	LYS
6	J	357	LEU
6	J	368	ASP
6	J	370	ASP
6	J	371	LYS
6	J	372	PHE
6	J	375	LYS
6	J	376	LYS
6	J	385	GLU
6	J	389	ARG
6	J	390	ILE

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Mol	Chain	Res	Type
6	J	393	ASP
6	J	401	ILE
6	J	402	ASP
6	J	403	THR
6	J	405	LEU
6	J	411	ASN
6	J	430	LEU
7	K	341	LYS
7	K	384	THR
7	K	385	GLN
7	K	387	GLN
7	K	391	GLU
7	K	393	ASP
7	K	394	THR
7	K	398	ILE
7	K	399	LEU
7	K	400	LYS
7	K	402	GLN
7	K	404	ARG
7	K	423	LYS
7	K	443	LEU
7	K	446	ARG
7	K	449	ASP
7	K	453	LEU
7	K	455	LYS
7	K	529	LYS
8	L	703	GLN
1	M	15	SER
1	M	16	LYS
1	M	21	LYS
1	M	23	ASN
1	M	24	GLU
1	M	29	SER
1	M	45	SER
1	M	53	VAL
1	M	54	PHE
1	M	57	ARG
1	M	79	SER
1	M	82	ASP
1	M	115	THR
1	M	116	LYS
1	M	119	GLU

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Mol	Chain	Res	Type
1	M	122	LEU
1	M	130	ASN
1	M	134	LYS
1	M	137	ASP
1	M	138	ASN
1	M	139	PHE
1	M	543	LYS
1	M	617	LYS
1	M	827	GLU
1	M	829	TYR
1	M	830	SER
1	M	833	ILE
1	N	19	ASN
1	N	21	LYS
1	N	22	LEU
1	N	27	GLU
1	N	30	ASP
1	N	46	ILE
1	N	49	LEU
1	N	53	VAL
1	N	56	LEU
1	N	79	SER
1	N	80	PHE
1	N	81	GLU
1	N	84	ASP
1	N	87	ILE
1	N	88	LYS
1	N	89	ASP
1	N	90	LEU
1	N	92	THR
1	N	116	LYS
1	N	117	LYS
1	N	119	GLU
1	N	121	ILE
1	N	122	LEU
1	N	125	ILE
1	N	127	GLN
1	N	128	LEU
1	N	129	LEU
1	N	130	ASN
1	N	133	THR
1	N	134	LYS

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Mol	Chain	Res	Type
1	N	138	ASN
1	N	139	PHE
1	N	144	LEU
1	N	146	LEU
1	N	252	GLN
1	N	254	LEU
1	N	294	MET
1	N	399	LYS
1	N	446	LYS
1	N	551	ARG
1	N	731	GLN
1	N	758	GLN
1	N	765	ASP
1	N	766	ASN
1	N	767	ILE
1	N	772	PRO
1	N	775	LEU
1	N	776	ILE
1	N	777	ILE
1	N	793	LYS
1	N	805	SER
1	N	808	ASN
1	N	824	MET
1	N	827	GLU
1	N	828	THR
2	O	68	THR
2	O	85	LEU
2	O	294	LEU
2	O	315	THR
2	O	318	ILE
2	O	326	LEU
2	O	331	LEU
2	O	337	THR
2	O	462	LEU
2	O	476	ASN
2	O	520	LEU
2	O	530	LEU
2	O	577	PHE
2	O	691	GLN
2	O	695	ASP
2	O	826	LEU
2	O	828	THR

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Mol	Chain	Res	Type
2	O	896	CYS
2	O	1034	SER
2	O	1252	ASP
2	O	1253	VAL
2	O	1262	LEU
2	O	1299	LYS
2	O	1301	SER
2	O	1387	HIS
3	P	445	ARG
3	P	528	PRO
3	P	980	SER
3	P	982	GLU
3	P	990	GLU
3	P	995	PHE
3	P	1000	ASP
3	P	1115	VAL
3	P	1118	LEU
3	P	1129	ASN
3	P	1160	HIS
3	P	1472	ILE
3	P	1495	LEU
4	Q	138	VAL
4	Q	257	LEU
4	Q	258	ILE
4	Q	336	GLN
4	Q	771	LEU
4	Q	773	LEU
4	Q	791	ASP
4	Q	827	PRO
4	Q	843	LEU
4	Q	923	LEU
4	Q	931	PHE
4	Q	975	GLN
4	Q	976	PHE
4	Q	980	LYS
4	Q	984	ASP
4	Q	986	SER
4	Q	1026	THR
4	Q	1077	ARG
4	Q	1164	ASP
4	Q	1259	PHE
4	Q	1301	LYS

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Mol	Chain	Res	Type
4	Q	1313	ARG
4	Q	1557	LEU
4	Q	1597	ARG
5	R	64	PHE
5	R	164	LYS
5	R	331	ILE
5	R	334	GLN
5	R	356	ILE
5	R	389	LEU
5	R	397	MET
5	R	399	SER
5	R	407	ASN
5	R	408	SER
5	R	409	MET
5	R	444	THR
5	R	556	LYS
5	R	644	LYS
5	R	712	LEU
5	R	745	ARG
5	R	750	TRP
5	R	782	LYS
5	R	815	PHE
5	R	825	ILE
5	R	836	ILE
5	R	837	TYR
5	R	888	PRO
5	R	900	LEU
5	R	920	ILE
5	R	921	PRO
5	R	926	LEU
5	R	928	LEU
5	R	934	ASP
5	R	950	GLU
5	R	951	ARG
5	R	955	SER
5	R	958	SER
5	R	962	ARG
5	R	965	LEU
5	R	1029	SER
5	R	1041	PHE
5	R	1060	LEU
5	R	1068	ILE

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Mol	Chain	Res	Type
5	R	1090	PRO
5	R	1092	THR
5	R	1118	ARG
5	R	1128	ASP
5	R	1129	ASN
5	R	1144	VAL
5	R	1147	PHE
5	R	1149	SER
5	R	1150	PHE
5	R	1153	TYR
5	R	1155	ASN
5	R	1159	GLN
5	R	1165	ILE
5	R	1166	HIS
5	R	1167	LYS
5	R	1169	SER
5	R	1170	PHE
5	R	1181	VAL
5	R	1191	SER
5	R	1192	VAL
5	R	1210	LYS
5	R	1273	LYS
5	R	1276	ASP
5	R	1277	VAL
5	R	1278	GLU
5	R	1280	ILE
5	R	1281	LYS
5	R	1283	LYS
5	R	1285	HIS
5	R	1286	PHE
5	R	1289	ILE
5	R	1291	SER
5	R	1293	ASN
5	R	1296	LEU
5	R	1297	GLU
5	R	1300	LEU
5	R	1301	SER
5	R	1302	VAL
5	R	1303	LEU
5	R	1309	LEU
5	R	1314	VAL
5	R	1315	THR

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Mol	Chain	Res	Type
5	R	1349	PHE
5	R	1356	LEU
5	R	1361	PHE
5	R	1364	TYR
5	R	1365	ASN
5	R	1372	THR
5	R	1373	ASP
5	R	1382	TYR
5	R	1387	THR
5	R	1417	LEU
5	R	1484	ARG
5	R	1550	LEU
5	R	1559	LEU
5	R	1561	LEU
5	R	1634	LYS
5	R	1635	ARG
5	R	1680	GLN
6	S	411	ASN
6	S	460	LEU
7	T	325	THR
7	T	418	GLN
7	T	507	ASN
7	T	508	LYS
7	T	529	LYS
8	U	688	HIS
8	U	727	SER
8	U	736	ASN
8	U	740	LYS
8	U	778	LYS
8	U	792	GLN
8	U	795	LYS
8	U	797	LEU
8	U	808	ASP
8	U	810	ASN
8	U	812	THR
8	U	815	GLU
8	U	818	ILE
8	U	819	ASN
8	U	821	ILE
8	U	822	LYS
8	U	823	LYS
6	V	357	LEU

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Mol	Chain	Res	Type
6	V	368	ASP
6	V	370	ASP
6	V	371	LYS
6	V	375	LYS
6	V	376	LYS
6	V	385	GLU
6	V	389	ARG
6	V	391	LEU
6	V	394	ILE
6	V	401	ILE
6	V	405	LEU
6	V	411	ASN
6	V	430	LEU
7	W	341	LYS
7	W	384	THR
7	W	385	GLN
7	W	387	GLN
7	W	391	GLU
7	W	393	ASP
7	W	394	THR
7	W	398	ILE
7	W	399	LEU
7	W	400	LYS
7	W	402	GLN
7	W	404	ARG
7	W	423	LYS
7	W	443	LEU
7	W	446	ARG
7	W	449	ASP
7	W	453	LEU
7	W	455	LYS
7	W	506	ILE
7	W	509	ILE
7	W	518	ARG
7	W	522	TYR
7	W	529	LYS
7	W	539	ASN
8	X	703	GLN
1	Z	14	THR
1	Z	16	LYS
1	Z	20	LYS
1	Z	22	LEU

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Mol	Chain	Res	Type
1	Z	26	LEU
1	Z	28	SER
1	Z	46	ILE
1	Z	49	LEU
1	Z	53	VAL
1	Z	56	LEU
1	Z	79	SER
1	Z	80	PHE
1	Z	81	GLU
1	Z	84	ASP
1	Z	87	ILE
1	Z	88	LYS
1	Z	89	ASP
1	Z	90	LEU
1	Z	92	THR
1	Z	116	LYS
1	Z	117	LYS
1	Z	119	GLU
1	Z	121	ILE
1	Z	122	LEU
1	Z	125	ILE
1	Z	127	GLN
1	Z	128	LEU
1	Z	129	LEU
1	Z	130	ASN
1	Z	133	THR
1	Z	134	LYS
1	Z	138	ASN
1	Z	139	PHE
1	Z	144	LEU
1	Z	146	LEU
1	Z	253	LEU
1	Z	294	MET
1	Z	399	LYS
1	Z	446	LYS
1	Z	551	ARG
1	Z	731	GLN
1	Z	758	GLN
1	Z	765	ASP
1	Z	766	ASN
1	Z	767	ILE
1	Z	772	PRO

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Mol	Chain	Res	Type
1	Z	775	LEU
1	Z	776	ILE
1	Z	777	ILE
1	Z	793	LYS
1	Z	805	SER
1	Z	808	ASN
1	Z	824	MET
1	Z	827	GLU
1	Z	828	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (229) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	130	ASN
1	A	138	ASN
1	A	733	GLN
1	A	787	HIS
2	C	199	HIS
2	C	691	GLN
2	C	827	ASN
2	C	914	GLN
2	C	941	ASN
2	C	1387	HIS
3	D	449	ASN
3	D	484	GLN
3	D	850	ASN
3	D	1086	ASN
3	D	1129	ASN
4	E	36	GLN
4	E	190	GLN
4	E	210	ASN
4	E	299	ASN
4	E	388	ASN
4	E	571	ASN
4	E	600	ASN
4	E	636	GLN
4	E	677	ASN
4	E	759	ASN
4	E	763	GLN
4	E	770	HIS
4	E	822	ASN
4	E	1001	ASN

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Mol	Chain	Res	Type
4	E	1029	ASN
4	E	1383	GLN
4	E	1429	HIS
4	E	1493	ASN
4	E	1535	ASN
4	E	1539	ASN
4	E	1558	GLN
5	F	38	ASN
5	F	163	ASN
5	F	177	GLN
5	F	195	GLN
5	F	258	GLN
5	F	334	GLN
5	F	428	GLN
5	F	539	ASN
5	F	542	ASN
5	F	714	HIS
5	F	725	ASN
5	F	1260	ASN
5	F	1293	ASN
5	F	1299	ASN
5	F	1365	ASN
5	F	1541	ASN
6	G	328	GLN
6	G	355	GLN
6	G	428	ASN
7	H	362	ASN
7	H	365	GLN
7	H	368	ASN
7	H	377	ASN
7	H	524	ASN
8	I	647	GLN
8	I	654	HIS
8	I	690	GLN
8	I	695	GLN
8	I	743	GLN
8	I	754	ASN
8	I	781	ASN
8	I	800	HIS
8	I	819	ASN
6	J	324	GLN
6	J	328	GLN

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Mol	Chain	Res	Type
6	J	355	GLN
6	J	367	ASN
6	J	374	GLN
6	J	378	HIS
7	K	337	GLN
7	K	359	ASN
7	K	362	ASN
7	K	365	GLN
7	K	368	ASN
7	K	377	ASN
7	K	385	GLN
7	K	387	GLN
7	K	402	GLN
7	K	424	ASN
7	K	515	ASN
7	K	539	ASN
8	L	647	GLN
8	L	654	HIS
8	L	695	GLN
8	L	704	GLN
8	L	749	GLN
8	L	754	ASN
8	L	774	ASN
8	L	800	HIS
1	M	19	ASN
1	M	130	ASN
1	M	138	ASN
1	M	540	ASN
1	M	733	GLN
1	M	787	HIS
1	N	19	ASN
1	N	60	ASN
1	N	127	GLN
1	N	130	ASN
1	N	138	ASN
1	N	141	ASN
1	N	196	ASN
1	N	246	ASN
1	N	252	GLN
1	N	396	GLN
1	N	463	GLN
1	N	464	ASN

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Mol	Chain	Res	Type
1	N	621	HIS
1	N	658	ASN
1	N	738	GLN
1	N	758	GLN
1	N	770	ASN
1	N	802	GLN
1	N	834	ASN
2	O	199	HIS
2	O	691	GLN
2	O	827	ASN
2	O	914	GLN
2	O	941	ASN
2	O	1258	GLN
2	O	1387	HIS
3	P	449	ASN
3	P	484	GLN
3	P	850	ASN
3	P	1086	ASN
3	P	1129	ASN
4	Q	36	GLN
4	Q	190	GLN
4	Q	210	ASN
4	Q	299	ASN
4	Q	388	ASN
4	Q	571	ASN
4	Q	600	ASN
4	Q	636	GLN
4	Q	677	ASN
4	Q	759	ASN
4	Q	763	GLN
4	Q	770	HIS
4	Q	822	ASN
4	Q	1001	ASN
4	Q	1029	ASN
4	Q	1383	GLN
4	Q	1429	HIS
4	Q	1493	ASN
4	Q	1535	ASN
4	Q	1539	ASN
4	Q	1558	GLN
5	R	38	ASN
5	R	163	ASN

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Mol	Chain	Res	Type
5	R	177	GLN
5	R	195	GLN
5	R	258	GLN
5	R	334	GLN
5	R	428	GLN
5	R	539	ASN
5	R	542	ASN
5	R	714	HIS
5	R	725	ASN
5	R	1293	ASN
5	R	1299	ASN
5	R	1365	ASN
5	R	1541	ASN
5	R	1680	GLN
6	S	328	GLN
6	S	355	GLN
6	S	428	ASN
7	T	362	ASN
7	T	365	GLN
7	T	368	ASN
7	T	377	ASN
7	T	524	ASN
8	U	647	GLN
8	U	654	HIS
8	U	690	GLN
8	U	695	GLN
8	U	743	GLN
8	U	754	ASN
8	U	781	ASN
8	U	800	HIS
8	U	819	ASN
6	V	324	GLN
6	V	328	GLN
6	V	355	GLN
6	V	367	ASN
6	V	374	GLN
6	V	378	HIS
7	W	359	ASN
7	W	362	ASN
7	W	365	GLN
7	W	368	ASN
7	W	377	ASN

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Mol	Chain	Res	Type
7	W	385	GLN
7	W	387	GLN
7	W	402	GLN
7	W	424	ASN
7	W	515	ASN
7	W	539	ASN
8	X	647	GLN
8	X	654	HIS
8	X	695	GLN
8	X	704	GLN
8	X	749	GLN
8	X	754	ASN
8	X	774	ASN
8	X	777	ASN
1	Z	60	ASN
1	Z	127	GLN
1	Z	130	ASN
1	Z	138	ASN
1	Z	141	ASN
1	Z	196	ASN
1	Z	214	ASN
1	Z	252	GLN
1	Z	396	GLN
1	Z	463	GLN
1	Z	464	ASN
1	Z	621	HIS
1	Z	658	ASN
1	Z	738	GLN
1	Z	758	GLN
1	Z	770	ASN
1	Z	802	GLN
1	Z	834	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

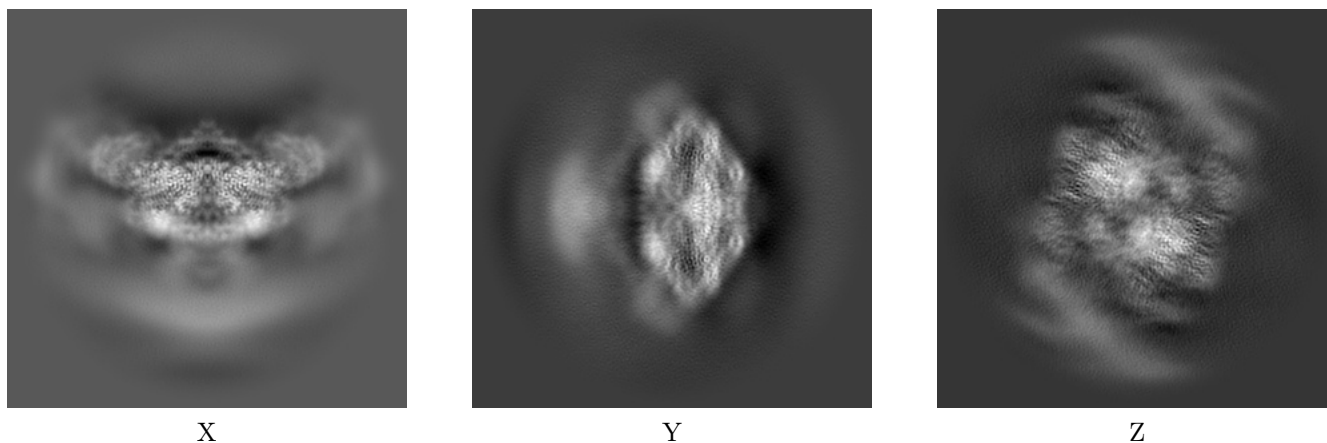
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-32658. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

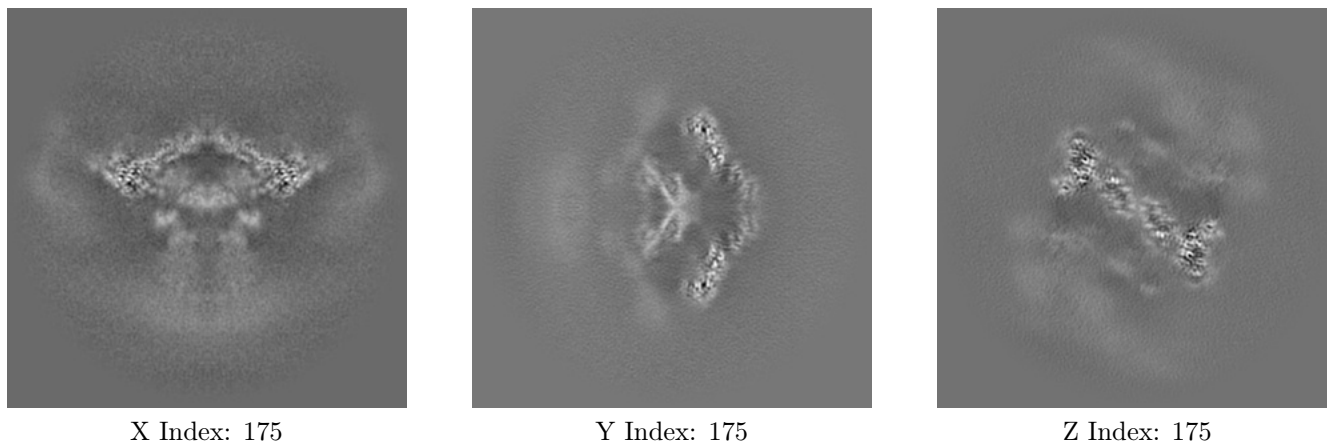
6.1.1 Primary map



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

6.2 Central slices [i](#)

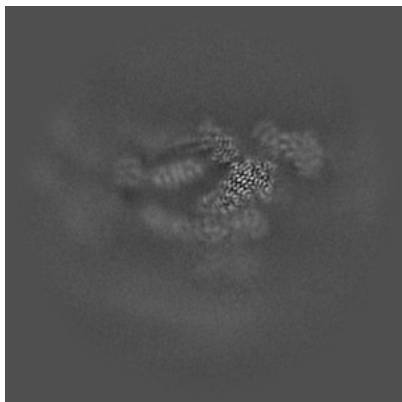
6.2.1 Primary map



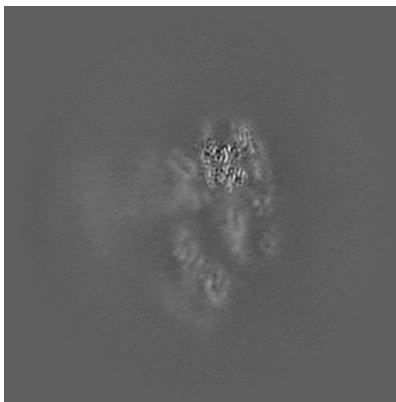
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

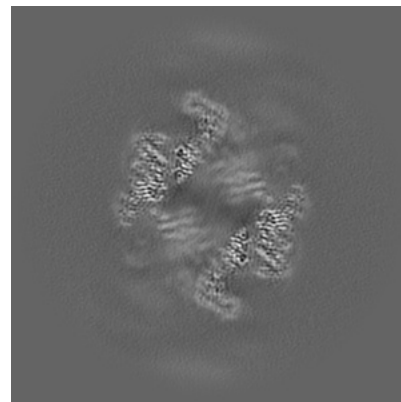
6.3.1 Primary map



X Index: 150



Y Index: 147

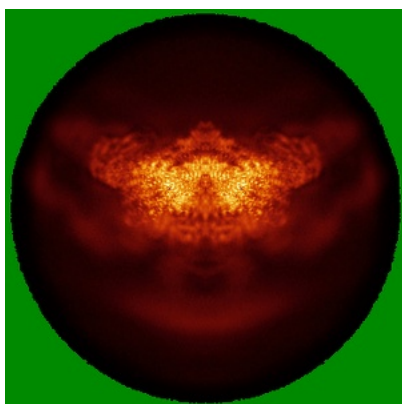


Z Index: 204

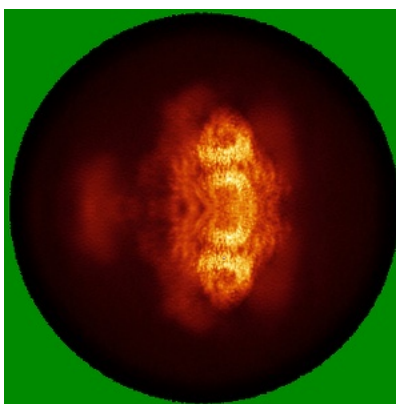
The images above show the largest variance slices of the map in three orthogonal directions.

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

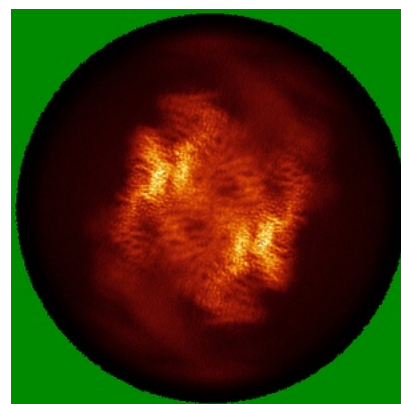
6.4.1 Primary map



X



Y

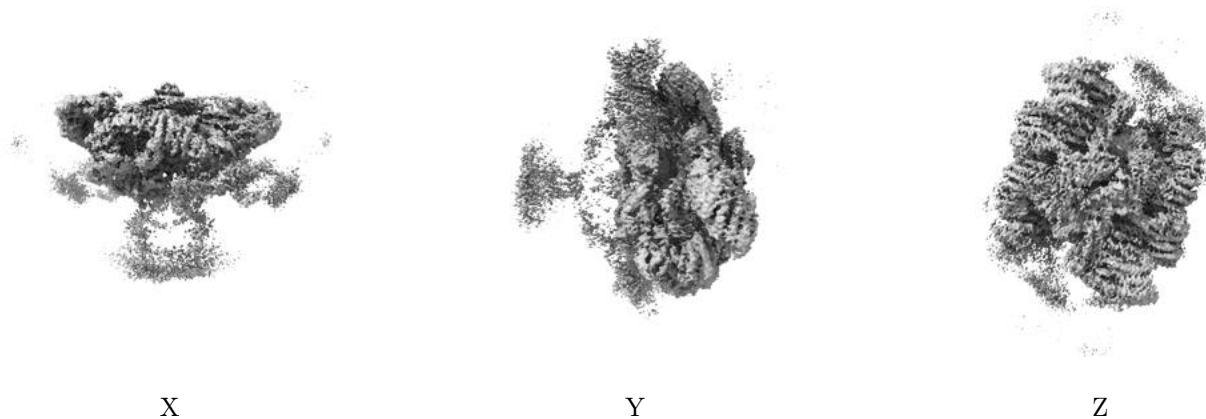


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.18. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

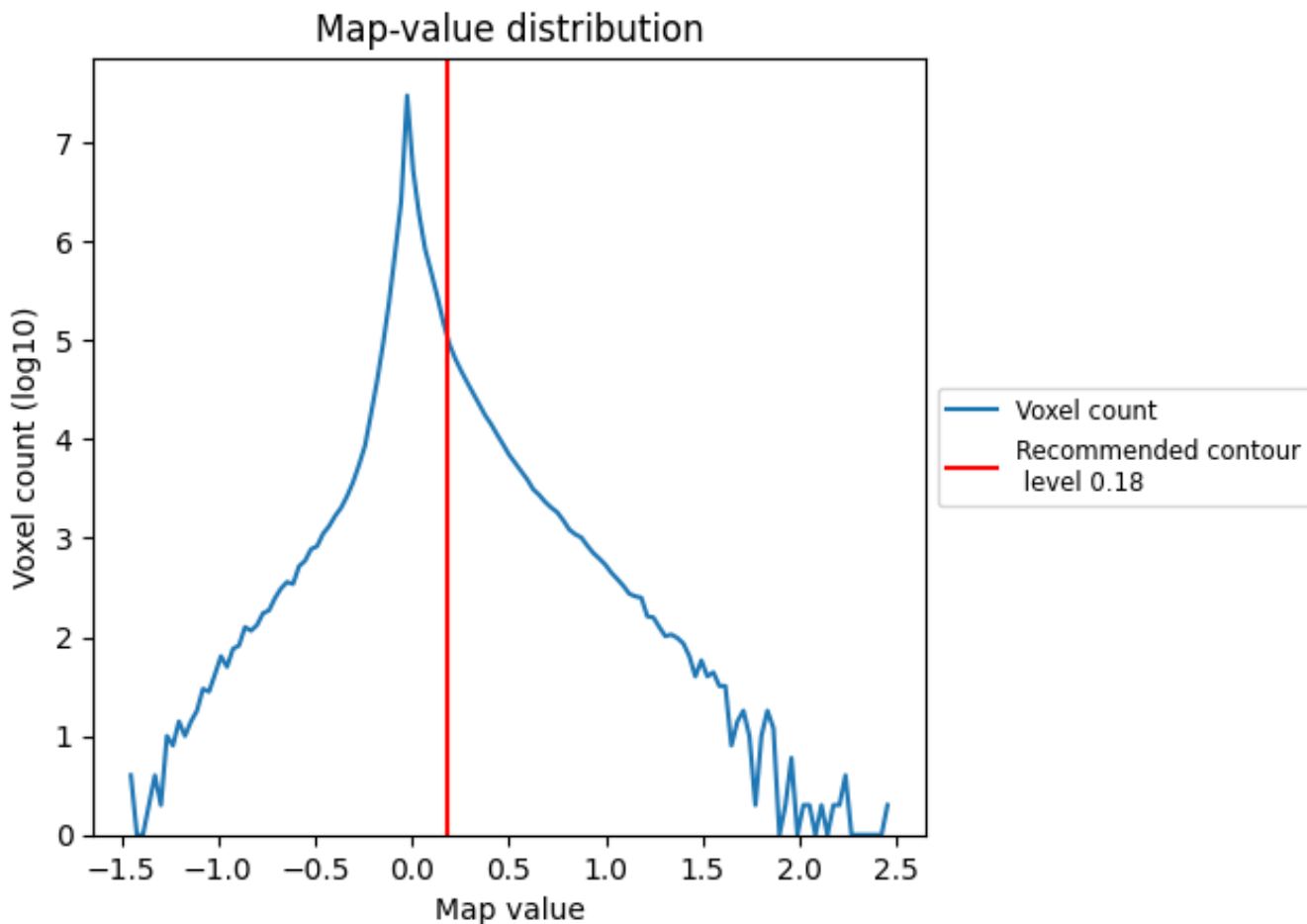
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

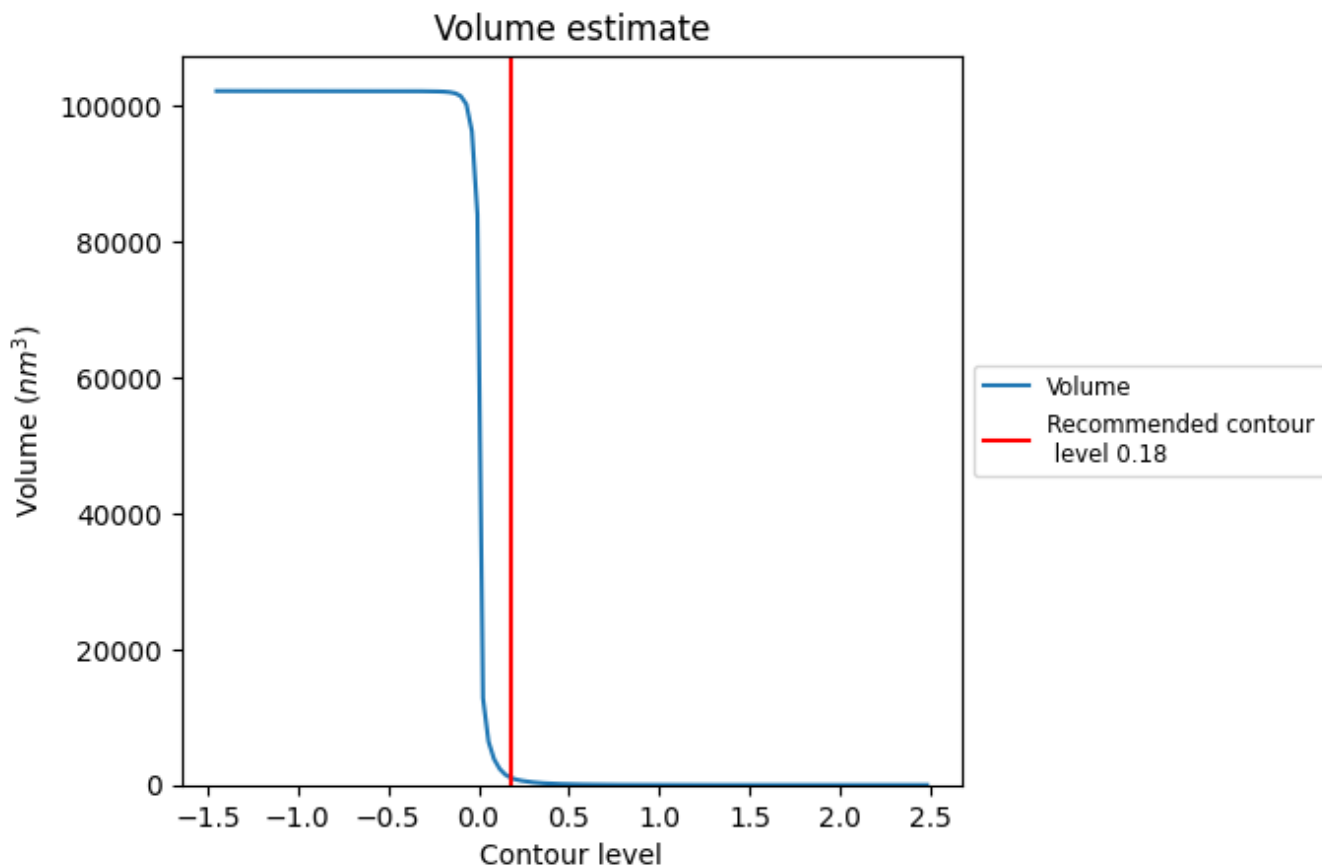
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

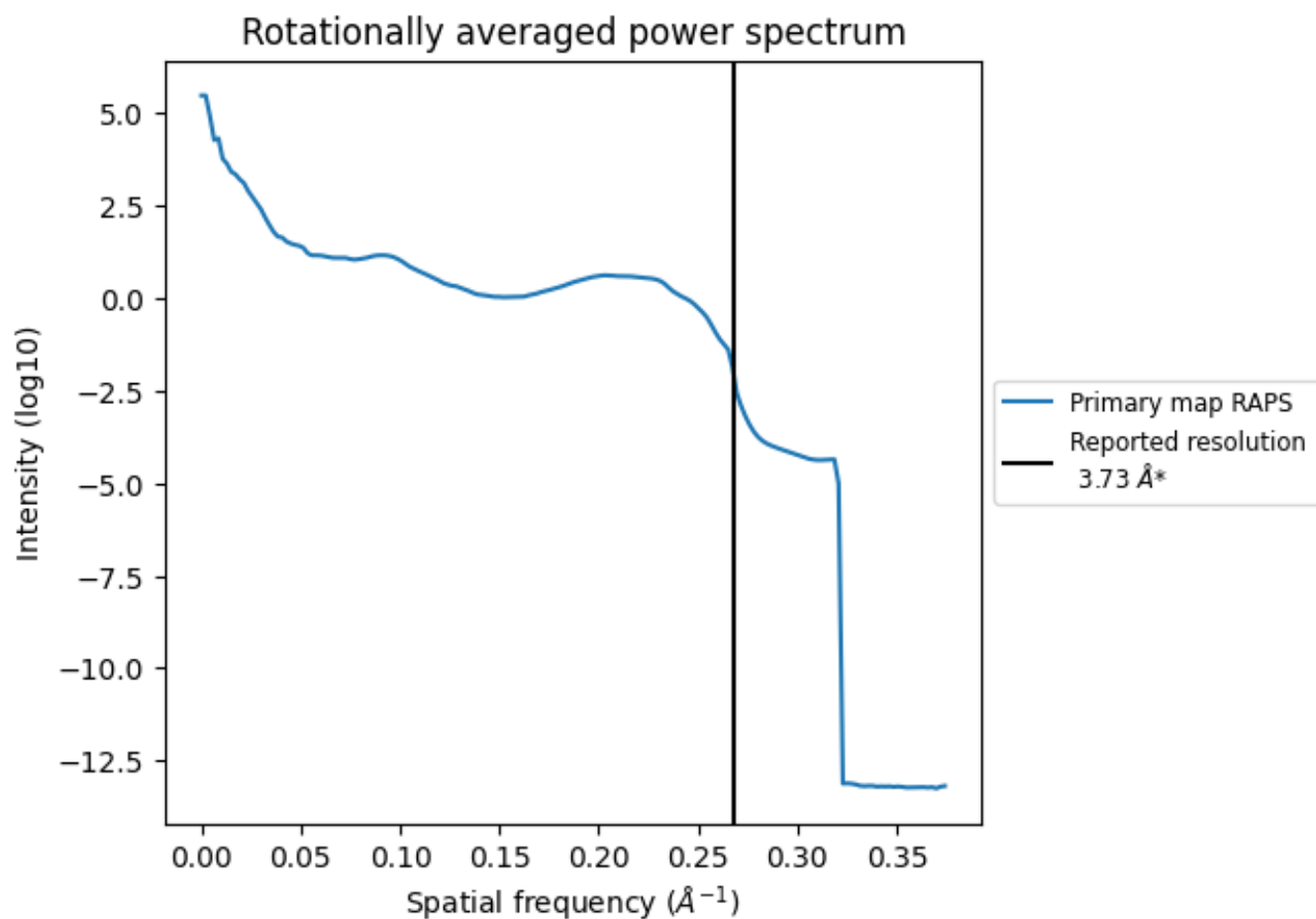
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1052 nm^3 ; this corresponds to an approximate mass of 950 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.268 Å⁻¹

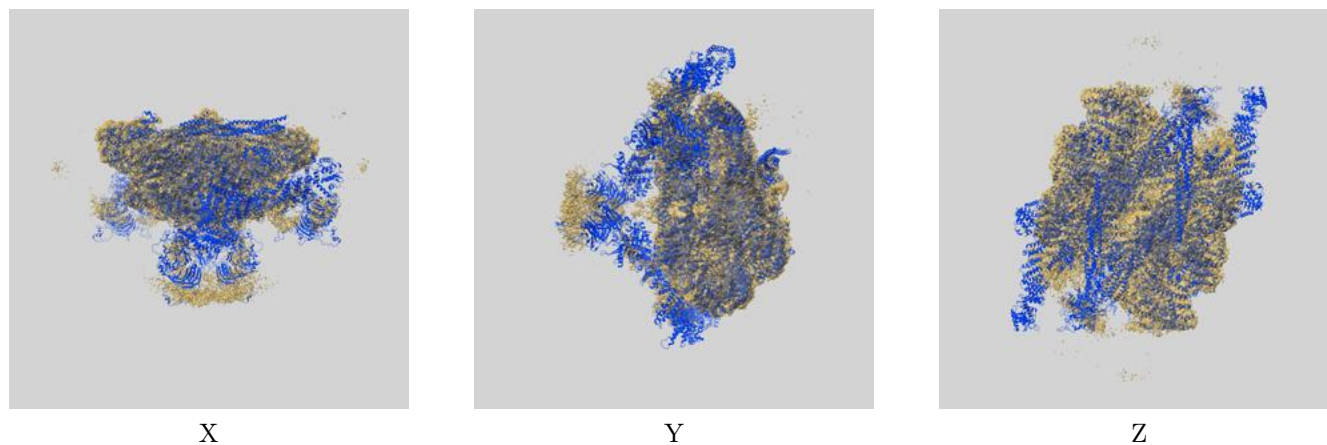
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

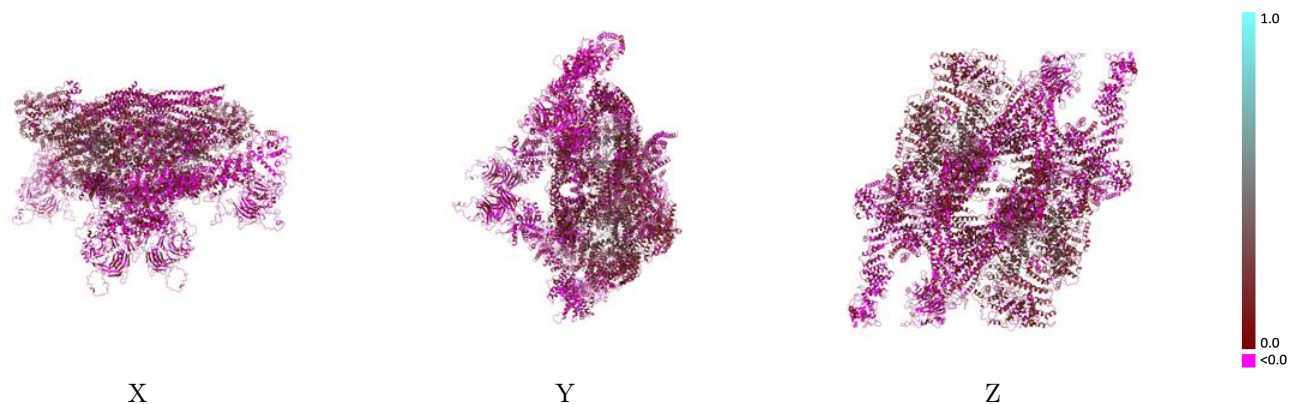
This section contains information regarding the fit between EMDB map EMD-32658 and PDB model 7WOT. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



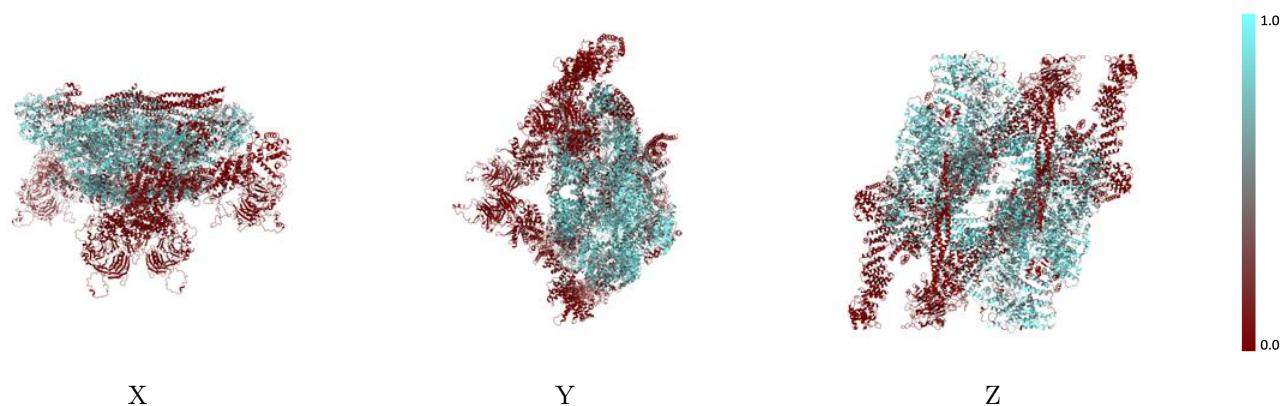
The images above show the 3D surface view of the map at the recommended contour level 0.18 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



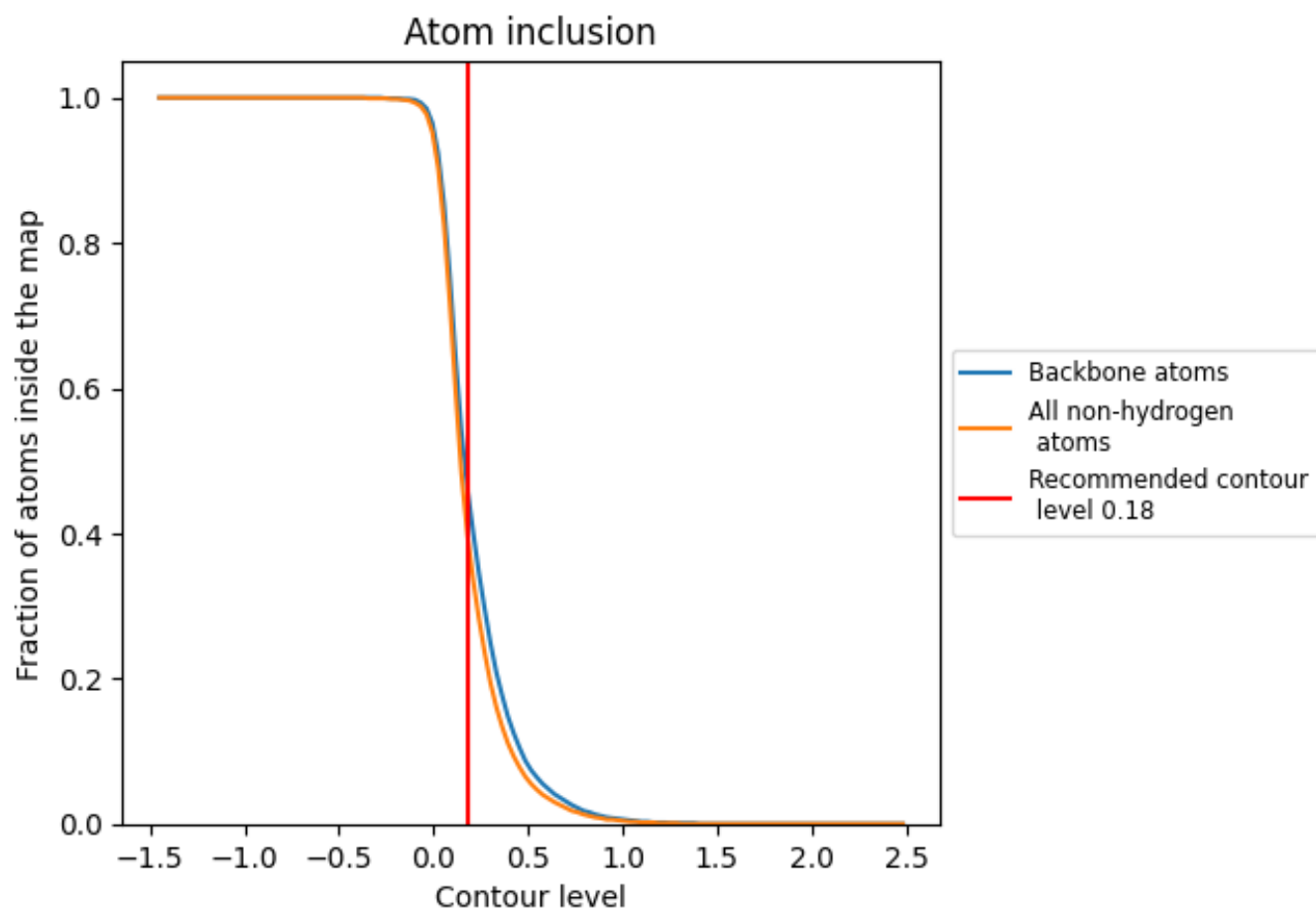
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.18).



















































9.4 Atom inclusion [i](#)



At the recommended contour level, 46% of all backbone atoms, 40% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.18) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.3970	 0.0910
A	 0.0870	 -0.0000
C	 0.0190	 0.0100
D	 0.2240	 0.0340
E	 0.6410	 0.1690
F	 0.6670	 0.1830
G	 0.4670	 0.0620
H	 0.4600	 0.0580
I	 0.5910	 0.1040
J	 0.3610	 0.0640
K	 0.2650	 0.0540
L	 0.3360	 0.0640
M	 0.0840	 0.0000
N	 0.5810	 0.1030
O	 0.0190	 0.0090
P	 0.2230	 0.0340
Q	 0.6450	 0.1740
R	 0.6700	 0.1830
S	 0.4670	 0.0620
T	 0.4610	 0.0570
U	 0.5940	 0.1070
V	 0.3640	 0.0620
W	 0.3030	 0.0730
X	 0.3330	 0.0650
Z	 0.5770	 0.1050

