



## Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 09:14 pm GMT

PDB ID : 3ZIF  
EMDB ID : EMD-2273  
Title : Cryo-EM structures of two intermediates provide insight into adenovirus assembly and disassembly  
Authors : Cheng, L.; Huang, X.; Li, X.; Xiong, W.; Sun, W.; Yang, C.; Zhang, K.; Wang, Y.; Liu, H.; Ji, G.; Sun, F.; Zheng, C.; Zhu, P.  
Deposited on : 2013-01-09  
Resolution : 4.50 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.2

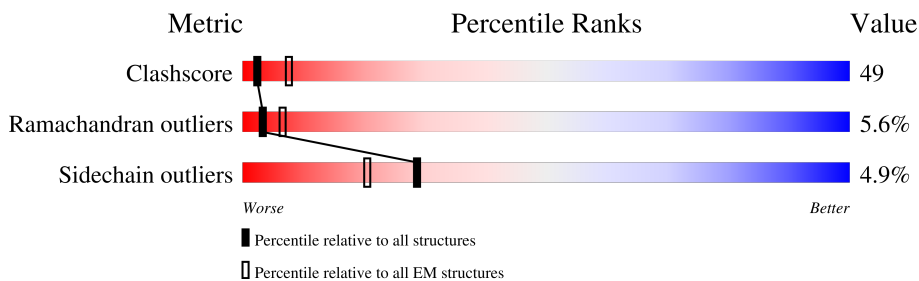
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 4.50 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	911	91% 42% 51% 5% ..
1	B	911	90% 42% 51% 5% ..
1	C	911	88% 44% 49% 5% ..
1	D	911	92% 42% 50% 5% ..
1	E	911	86% 42% 51% 5% ..
1	F	911	89% 44% 50% 5% ..
1	G	911	85% 41% 52% 5% ..
1	H	911	92% 43% 51% 5% ..

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Mol	Chain	Length	Quality of chain
1	I	911	85% 44% 50% 5% ..
1	J	911	86% 42% 51% 5% ..
1	K	911	90% 42% 52% 5% ..
1	L	911	83% 43% 50% 5% ..
2	M	482	92% 46% 41% 6% 7%
3	N	125	83% 10% 36% 25% 14% 14%
3	O	125	66% 10% 37% 25% 14% 14%
3	P	125	74% 8% 38% 25% 14% 14%
3	Q	125	74% 10% 37% 25% 14% 14%
4	R	216	41% 15% 27% 5% 52%

## 2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 94377 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 HEXON PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	903	7222	4573	1265	1354	30	0	0
1	B	903	7222	4573	1265	1354	30	0	0
1	C	903	7222	4573	1265	1354	30	0	0
1	D	903	7222	4573	1265	1354	30	0	0
1	E	903	7222	4573	1265	1354	30	0	0
1	F	903	7222	4573	1265	1354	30	0	0
1	G	903	7222	4573	1265	1354	30	0	0
1	H	903	7222	4573	1265	1354	30	0	0
1	I	903	7222	4573	1265	1354	30	0	0
1	J	904	7223	4573	1266	1354	30	0	1
1	K	903	7222	4573	1265	1354	30	0	0
1	L	903	7222	4573	1265	1354	30	0	0

- Molecule 2 is a protein called PENTON PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	M	450	3596	2275	621	688	12	0	0

- Molecule 3 is a protein called PIX.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	N	107	Total	C	N	O	S	0	0
			826	507	155	161	3		
3	O	107	Total	C	N	O	S	0	0
			826	507	155	161	3		
3	P	107	Total	C	N	O	S	0	0
			826	507	155	161	3		
3	Q	107	Total	C	N	O	S	0	0
			826	507	155	161	3		

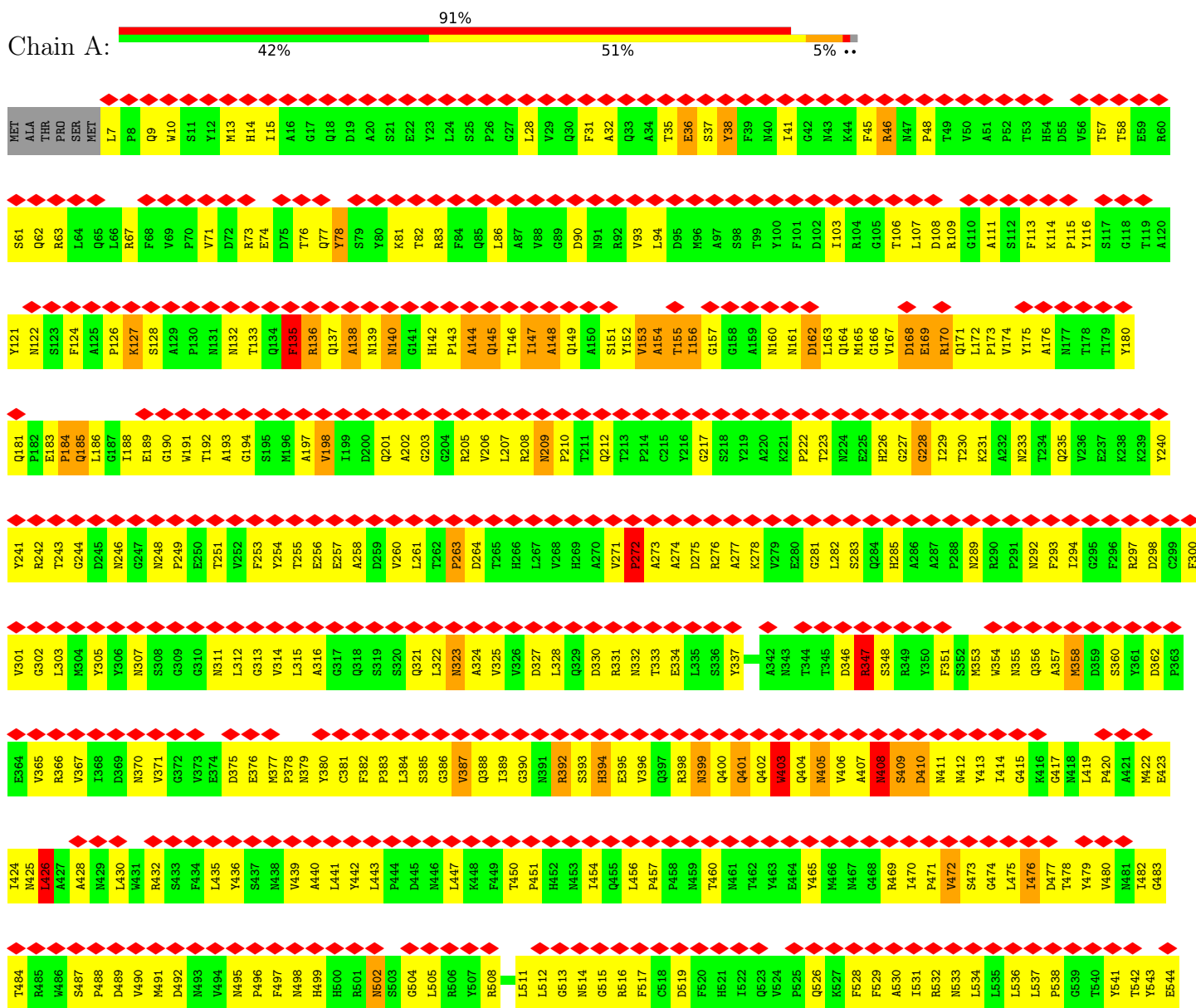
- Molecule 4 is a protein called PVIII.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	R	103	Total	C	N	O	S	0	0
			812	514	138	156	4		

### 3 Residue-property plots

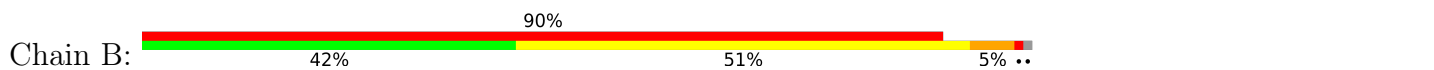
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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



W545	S646	F605	I665	G725	A786	D846	A906
S647	F606	P666	G726	Y787	Y787	L847	G907
F607	D607	Y667	L727	W788	W788	G948	W908
Y608	D608	L668	V728	R789	R789	Q949	A909
R648	Y609	D669	Q729	R790	R790	K850	THR
K649	S610	G670	M730	F791	F791	L851	THR
D650	A611	T671	L731	C792	C792	L852	
V551	A612	F672	A732	R793	R793	Y853	
M552	M613	Y673	M733	A794	A794	A854	
M553	M614	G674	Y734	R795	R795	N855	
I554	L615	S675	M735	R796	R796	A856	
L555	Y616	H676	Y736	E797	E797	A857	
Q556	P617	T677	L737	G798	G798	H858	
S557	I618	F678	G738	H799	H799	A859	
T558	P619	R679	P800	P800	P800	L860	
L559	P620	K680	Y739	Y801	Y801	D861	
G560	M621	V681	G740	P802	P802	M862	
N561	M622	V682	Y741	Q803	Q803	T863	
D562	A623	I683	H742	L804	L804	F864	
L563	T623	I684	L743	A805	A805	E865	
R564	Q624	Q684	P744	L806	L806	M866	
V565	L625	F685	P745	P807	P807	D867	
D566	P626	D686	D746	P808	P808	R868	
G567	I627	S687	Y747	H809	H809	I869	
A568	P628	S688	K748	W810	W810	M870	
T569	S629	V689	D749	D811	D811	E871	
V570	R630	T690	R750	P812	P812	P872	
N571	M631	W691	T751	R813	R813	T873	
I572	W632	P692	F754	H814	H814	L874	
T573	A633	G693	L755	A815	A815	L875	
S574	L634	G694	L756	L816	L816	Y876	
V575	F635	D695	H756	R817	R817	V877	
N576	R636	R696	N757	D818	D818	L878	
L577	G637	L697	F758	P819	P819	F879	
Y578	W638	R698	I759	E820	E820	E880	
A579	S639	T699	P760	R821	R821	V881	
F580	L640	M761	M761	K822	K822	F882	
F581	T641	N701	C762	F823	F823	D883	
F582	R642	E702	R763	L824	L824	V884	
P583	L643	F703	Q764	C825	C825	A885	
M584	K644	E704	V765	D826	D826	R886	
S585	Q645	I705	P766	R827	R827	V887	
H586	R646	K706	M767	T828	T828	H888	
N587	E647	I707	P768	L829	L829	Q889	
A589	T648	S708	A769	W830	W830	P890	
S590	P649	V709	T770	R831	R831	H891	
L591	A650	D710	E771	I832	I832	G892	
L592	L651	G711	G772	P833	P833	G893	
E593	G652	E712	F773	F834	F834	V894	
A594	S653	G713	F774	S835	S835	I895	
M595	P654	Y714	L775	S836	S836	E896	
L596	F655	N715	L776	M837	M837	V897	
L597	D656	V716	G777	F838	F838	H898	
R598	P657	A717	I778	M839	M839	Y899	
N598	Y658	Q718	V779	S840	S840	L900	
D599	F659	S719	W779	M841	M841	N901	
T600	T660	N720	N780	G842	G842	T902	
M601	Y661	M721	H781	S843	S843	N902	
D602	S662	M722	R782	L844	L844	F904	
Q603	G663	K723	T783	T845	T845	S905	
S604	T664	D724	P785				

• Molecule 1: HEXON PROTEIN



Q185	D245	Y306
L186	M246	N307
G187	G247	S308
I188	M248	G309
E189	P249	G310
G190	E250	N311
W191	T251	L312
T192	V252	G313
A193	F253	V314
G194	Y254	L315
S195	T255	A316
M196	E256	G317
A197	E257	R318
V198	A258	S319
I199	D259	S320
D200	V260	Q321
Q201	L261	L322
A202	T262	N323
G203	P263	A324
G204	D264	V325
R205	T265	V326
V206	H266	D327
L207	L267	L328
R208	V268	Q329
M209	H269	D330
P210	A270	R331
T211	V271	N332
Q212	P272	S333
T213	A273	E334
P214	A274	L335
C215	D275	S336
Y216	R276	Y337
G217	A277	Q338
S218	K278	N339
Y219	V279	L340
A220	E280	L341
K221	G281	A342
P222	L282	N343
T223	S283	T344
M224	Q284	T345
E225	H285	D346
H226	P286	R347
G227	N288	S348
G228	N289	R349
L229	R290	Y350
T230	P291	F351
K231	M292	S352
A232	F293	N353
N233	L294	K354
T234	G295	N355
Q235	F296	Q356
V236	R297	A357
E237	D298	M358
K238	C299	D359
K239	F300	Y361
Y240	V301	D362
Y241	G302	P363
R242	L303	E364
T243	M304	Y365
G244		



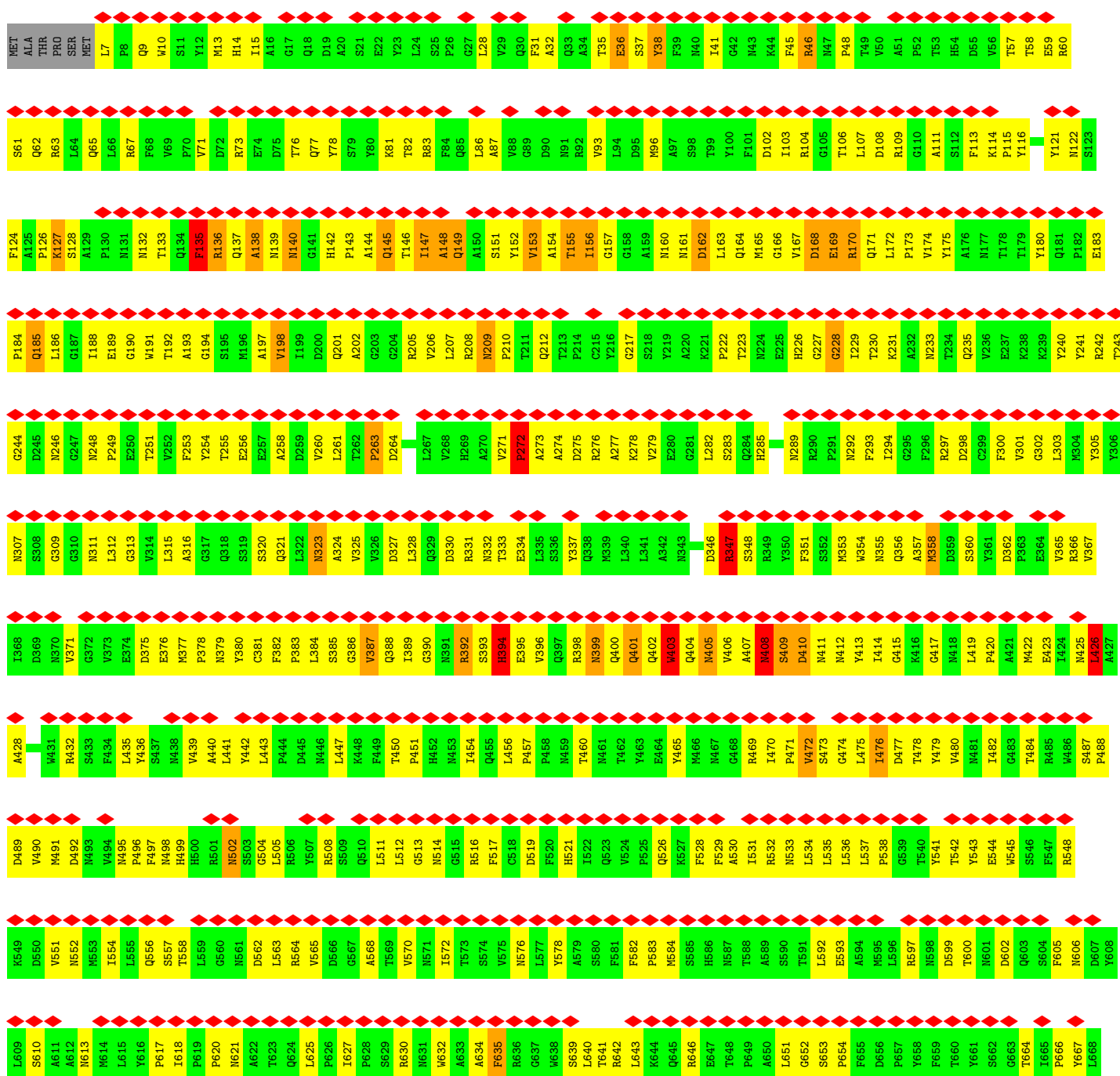
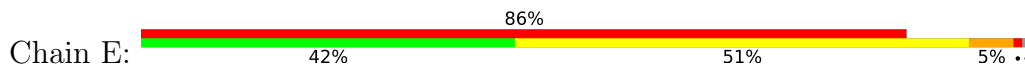


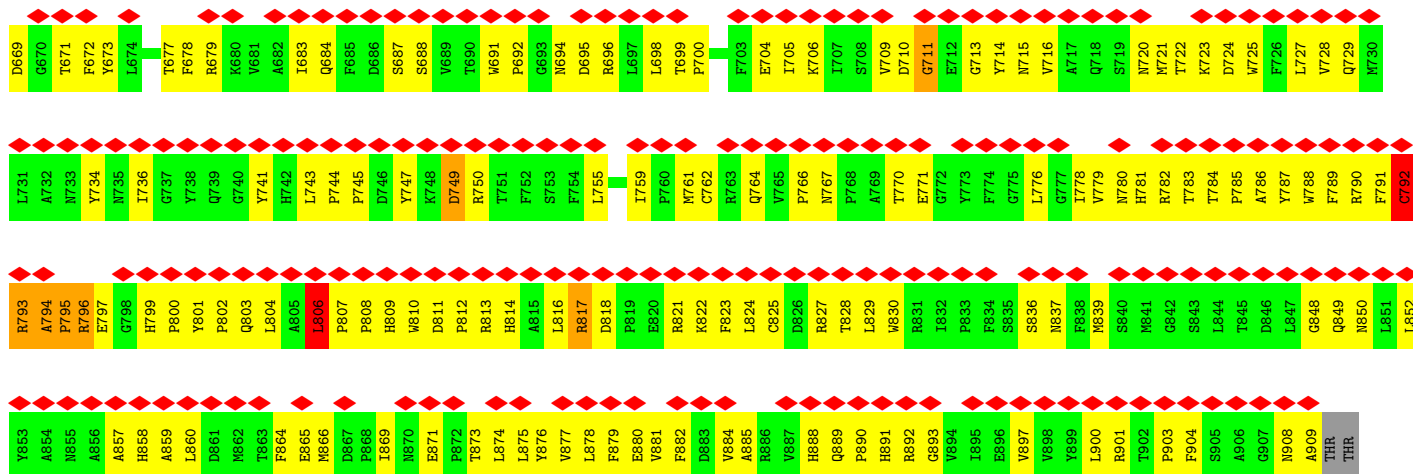


MET	ALA	THR	PRO	SER	MET	L7	P8	Q9	W10	S11	Y12	M13	H14	L15	A16	G17	Q18	D19	A20	S21	E22	Y23	L24	S25	P26	G27	L28	V29	Q30	F31	A32	Q33	A34	T35	E36	S37	Y38	F39	N40	L41	O42	N43	K44	F45	R46	N47	P48	T49	V50	A51	P52	T53	H54	D55	V56	T57	S58	E59	R60										
S61	Q62	R63	L64	Q65	L66	R67	F68	V69	F70	W71	D72	M73	R74	E75	D76	Q77	Y78	S79	Y80	K81	T82	R83	F84	R205	O85	L86	A87	V88	D89	N91	Y92	R93	L94	D95	H96	A97	G98	S98	T99	Y100	F101	D102	L103	R104	G105	T106	L107	D108	R109	G110	A111	S112	F113	K114	P115	Y116	S117	G118	T119	A120									
Y121	N122	S123	F124	L125	P126	K127	S128	A129	P130	M131	N132	T133	E134	F135	R136	Q137	A138	M139	N140	G141	H142	P143	A144	Q145	L146	I147	A148	Q149	A150	S151	Y152	V153	A154	T155	L156	G157	G158	A159	N160	M161	D162	L163	Q164	M165	G166	V167	D168	L169	R170	Q171	L172	P173	V174	Y175	A176	M177	T178	Y180											
Q181	P182	E183	P184	Q185	L186	G187	I188	E189	G190	W191	T192	A193	G194	S195	M196	A197	V198	I199	D200	Q201	A202	G203	S204	R205	V206	L207	R208	M209	P210	T211	Q212	T213	P214	C215	Y216	G217	Y219	A220	K221	T222	T223	N224	E225	G227	G228	T229	T230	K231	A232	M233	T234	Q235	V236	E237	K238	K239	Y240												
Y241	R242	T243	G244	D245	A246	G247	N248	P249	E250	T251	V252	F253	Y254	T255	E256	E257	A258	D259	V260	L261	T262	P263	D264	T265	H266	L267	V268	H269	A270	V271	P272	A273	A274	D275	R276	A277	K278	V279	E280	G281	L282	S283	Q284	H285	A286	A287	P288	R289	N290	P291	N292	F293	G295	P296	R297	D298	C299	F300											
V301	G302	L303	M304	Y305	Y306	N307	S308	G309	G310	N311	L312	G313	V314	L315	A316	P317	N319	Y380	C381	F382	L384	S385	G386	V387	Q388	L389	G390	Q391	D392	L393	R394	E395	V396	R397	R398	Q400	Q401	Q402	N403	Q404	N405	L406	A407	N408	S409	D410	Y411	N412	Y413	I414	G415	K416	G417	N418	L419	P420	A421	M422	D362	Y361	S360	D359	F293	G295	P296	R297	D298	C299	F300
P363	E364	V365	R366	V367	I368	D369	N370	G371	G372	V373	E374	E376	K377	P378	N379	Y380	C381	F382	L384	S385	G386	V387	Q388	L389	G390	Q391	D392	L393	R394	E395	V396	R397	R398	Q400	Q401	Q402	N403	Q404	N405	L406	A407	N408	S409	D410	Y411	N412	Y413	I414	G415	K416	G417	N418	L419	P420	A421	M422	D362	Y361	S360	D359	F293	G295	P296	R297	D298	C299	F300		
E423	I424	N425	L426	A427	A428	N429	K431	L430	R432	S433	F434	L435	Y436	S437	A438	P439	A440	L441	Y442	L443	D444	D445	N446	L447	F448	T450	R451	H452	M453	I454	Q455	L456	P457	P458	N459	T460	N461	T462	Y463	E464	Y465	M466	N467	G468	R469	I470	N471	N472	S473	G474	L475	A476	D477	Y478	Y479	V480	N481	I482											
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S604	F605	N606	D607	Y608	L609	S610	A611	A612	M613	M614	L615	Y616	P617	I618	P619	P620	M621	A622	T623	Q624	L625	P626	I627	P628	S629	R630	M631	W632	A633	A634	F635	R636	G637	W638	S639	L640	T641	R642	L643	K644	P645	R646	E647	T648	P649	A650	L651	G652	G653	P654	F655	D656	P657	Y658	F659	T660	N661	S662	G663										
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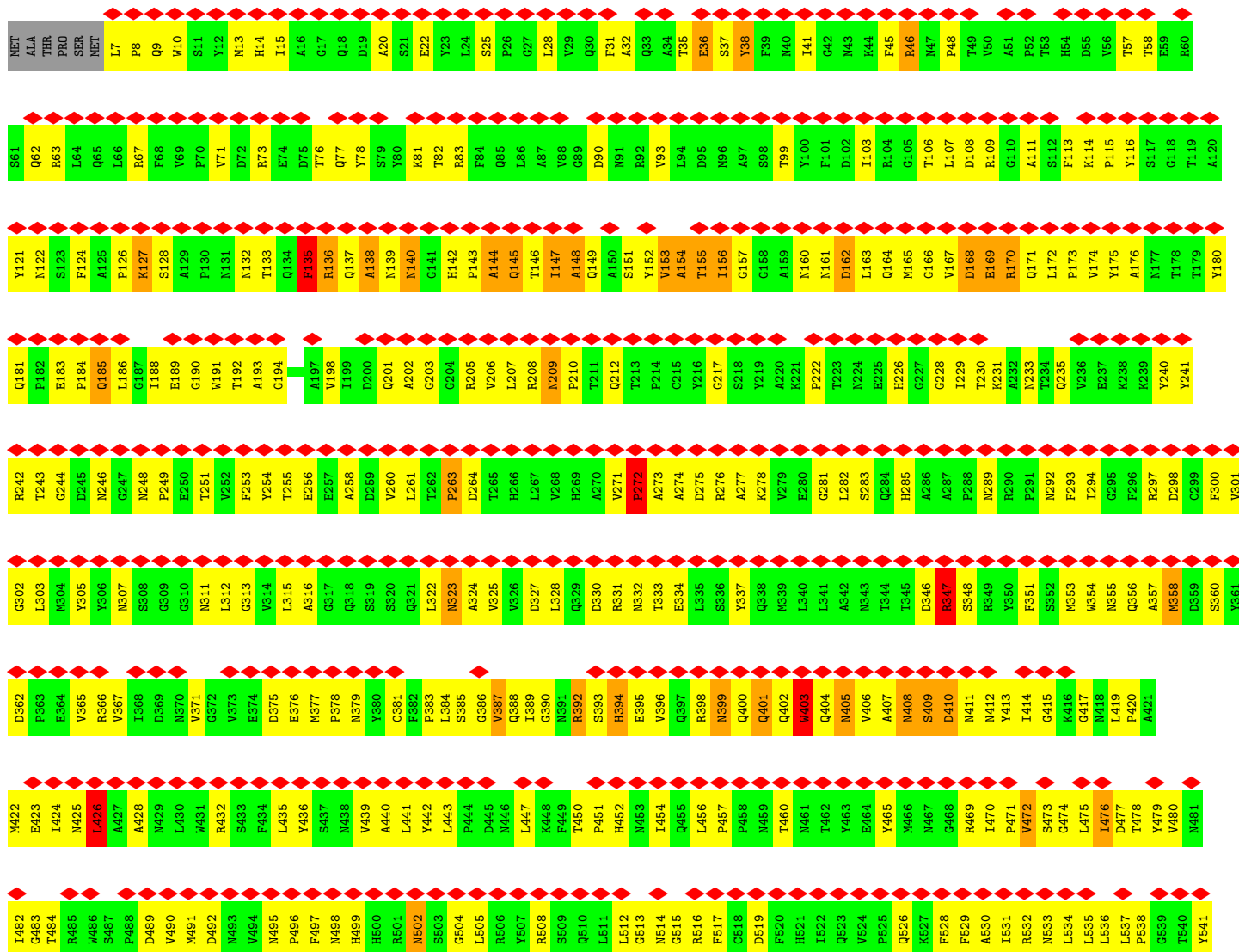
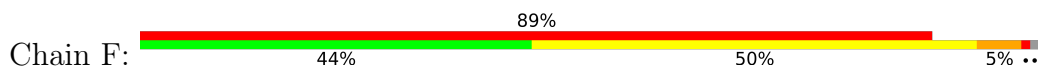


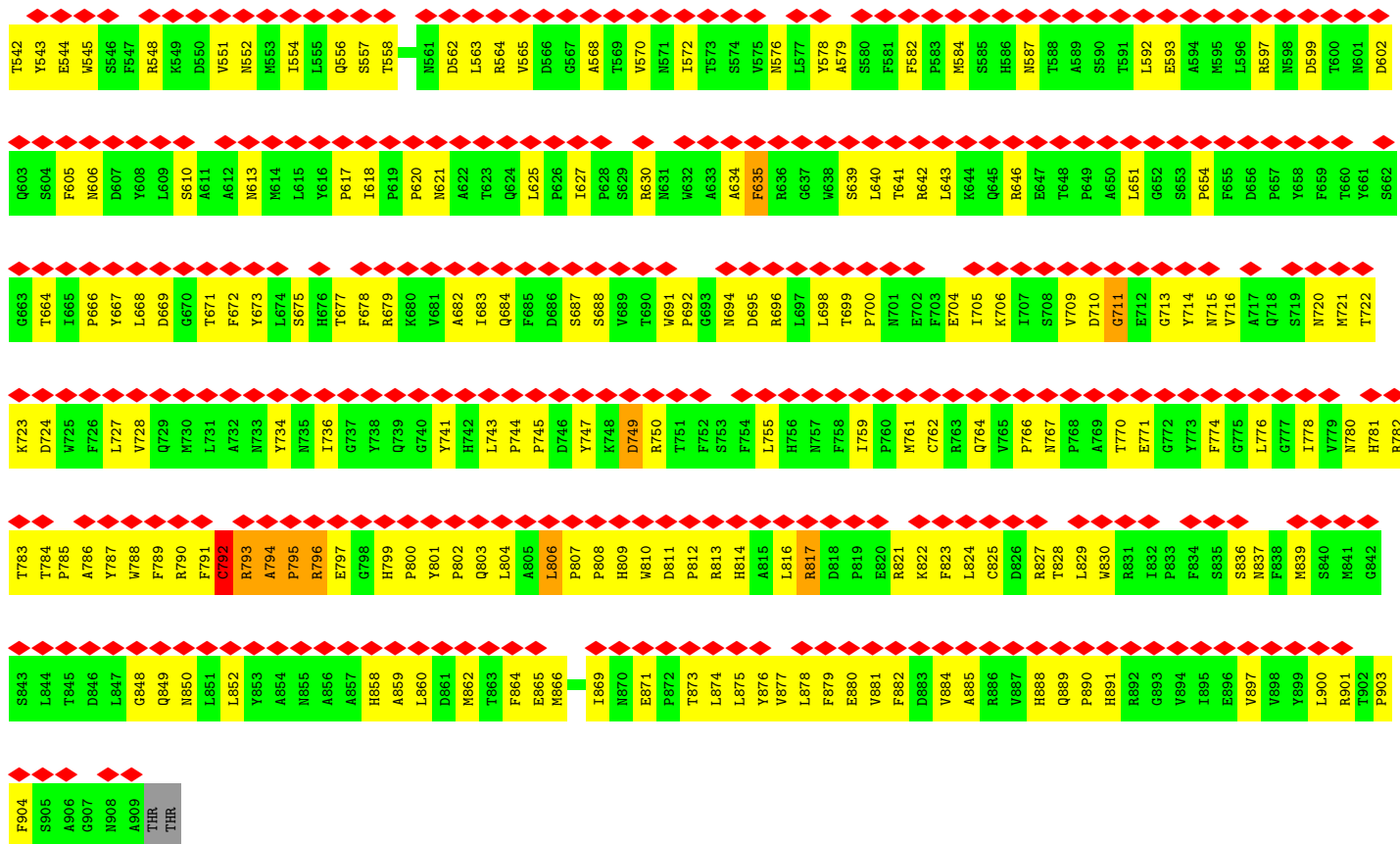
• Molecule 1: HEXON PROTEIN



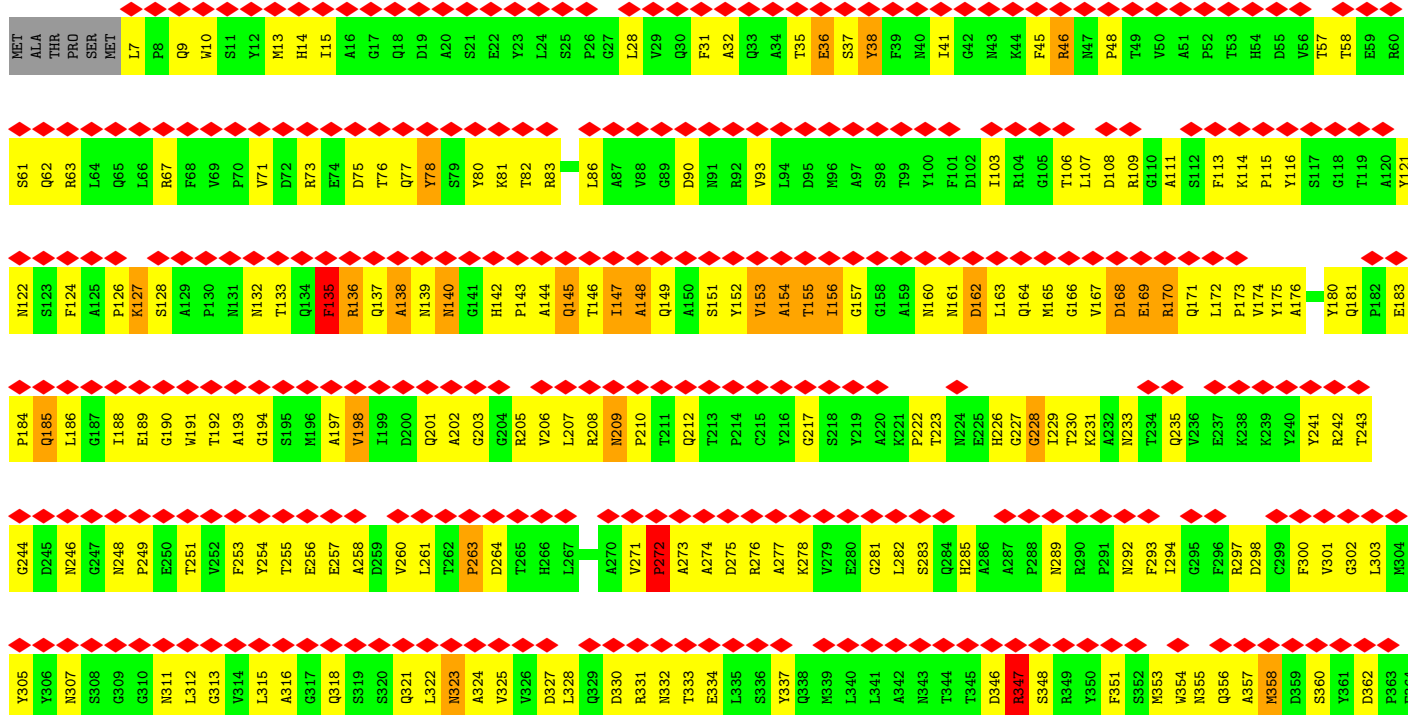
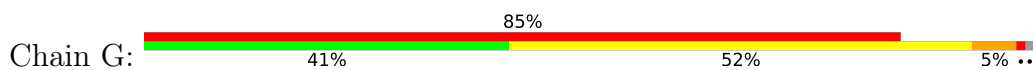


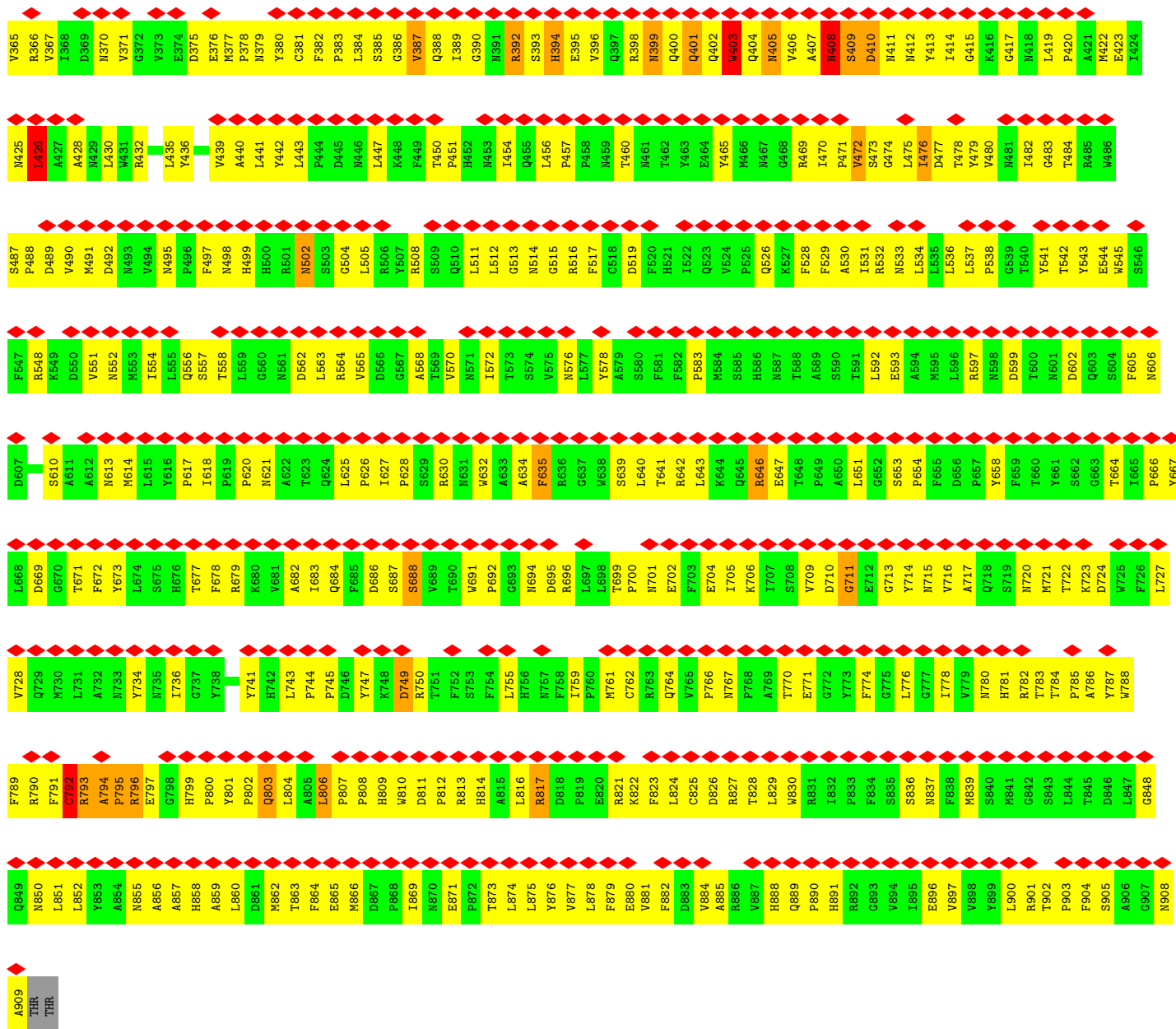
• Molecule 1: HEXON PROTEIN



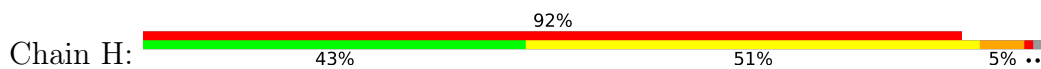


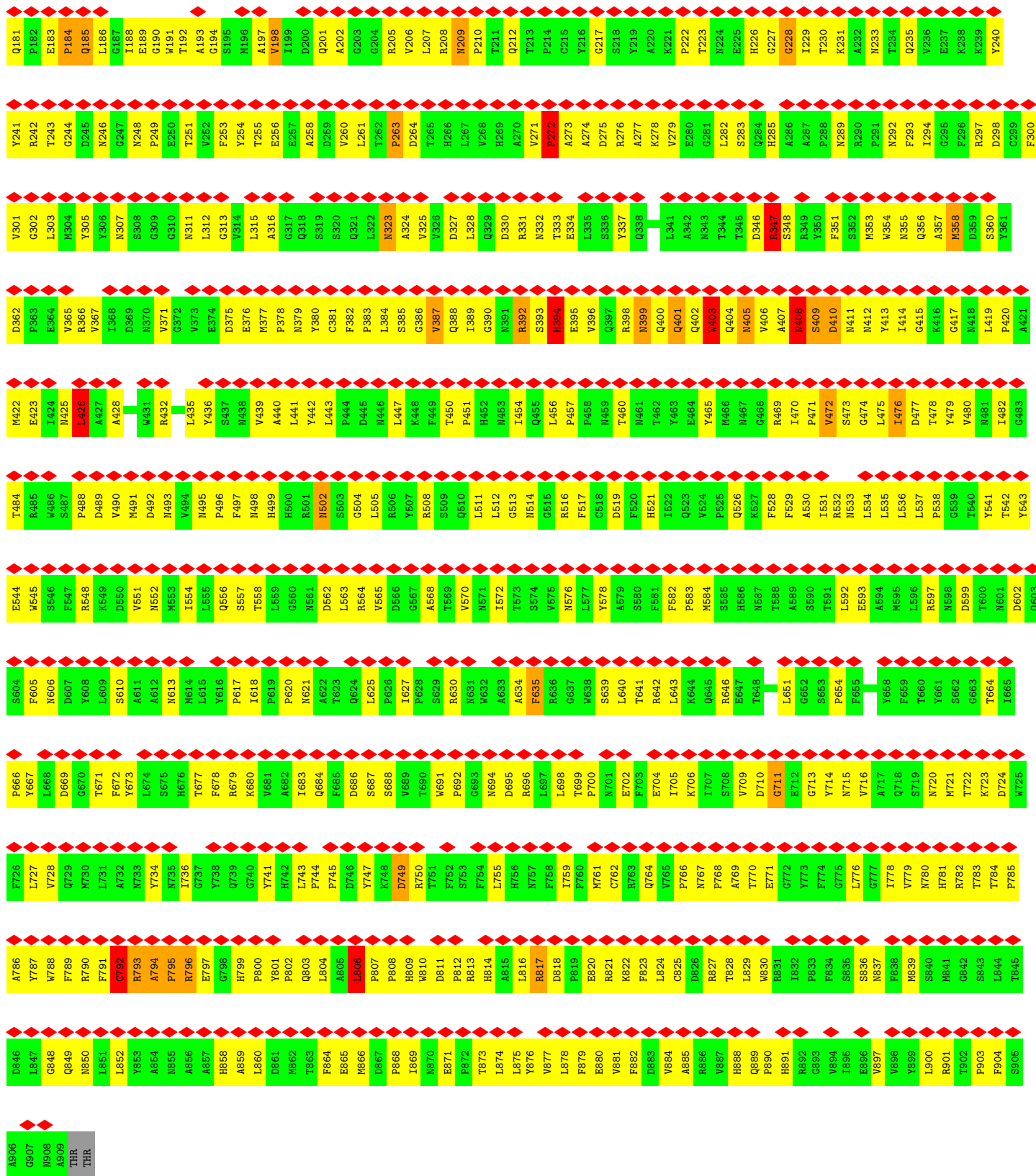
• Molecule 1: HEXON PROTEIN



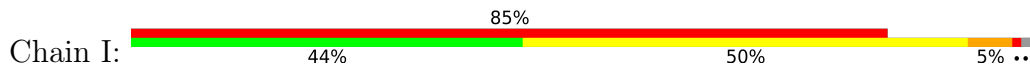


● Molecule 1: HEXON PROTEIN



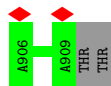


● Molecule 1: HEXON PROTEIN

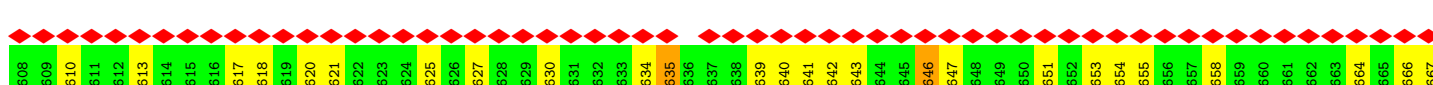
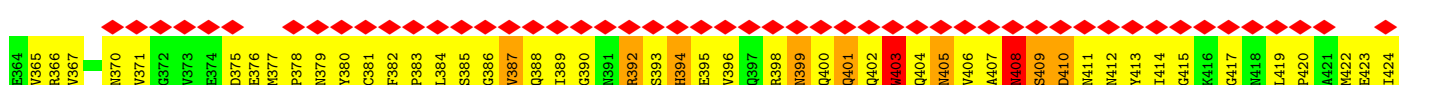
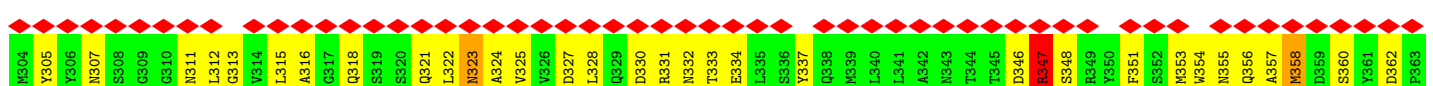
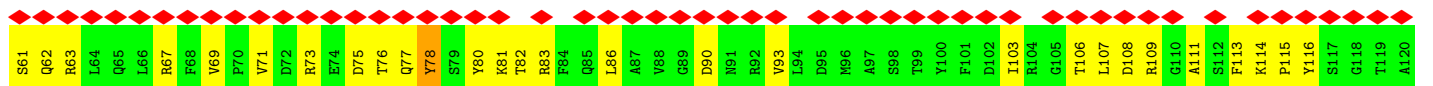
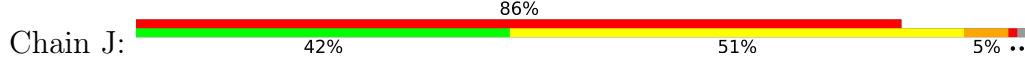


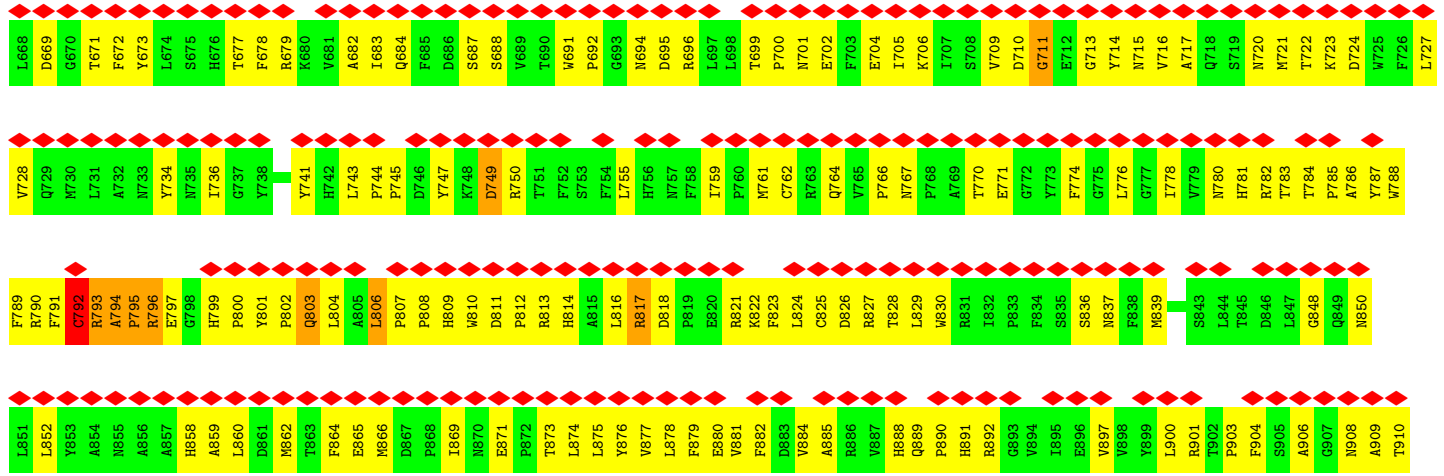
MET	ALA	THR	PRO	SER	MET	L7	P8	Q9	W10	S11	Y12	M13	H14	I15	A16	G17	Q18	D19	A20	S21	E22	Y23	L24	S25	P26	G27	L28	V29	Q30	F31	A32	Q33	A34	T35	E36	S37	Y38	F39	N40	I41	G42	N43	K44	F45	N47	P48	T49	V50	A51	P52	T53	H54	D55	V56	T57	S58	E59	R60		
S61	Q62	R63	L64	Q65	L66	R67	F68	V69	W70	Y71	D72	M73	H74	I75	A76	G77	Q78	D79	A80	S81	E82	Y83	L84	S85	P86	G87	L88	V89	Q90	F91	A92	Q93	A94	T95	E96	S97	Y98	F99	N100	I101	G102	N103	F104	M105	P106	T107	V108	A109	P110	T111	H112	D113	V114	T115	S116	E117	R118			
Y121	N122	S123	F124	L125	P126	K127	S128	A129	P130	M131	T132	M133	H134	I135	A136	G137	Q138	D139	A140	S141	E142	Y143	L144	S145	P146	G147	L148	V149	Q150	F151	A152	Q153	A154	T155	E156	S157	Y158	F159	N160	I161	G162	N163	F164	M165	P166	T167	V168	A169	P170	T171	H172	D173	V174	T175	S176	E177	R178			
Q181	P182	E183	P184	Q185	L186	G187	I188	E189	G190	W191	T192	M193	H194	I195	A196	G197	Q198	D199	A200	S201	E202	Y203	L204	S205	P206	G207	L208	V209	Q210	F211	A212	Q213	A214	T215	E216	S217	Y218	F219	N220	I221	G222	N223	F224	M225	P226	T227	V228	A229	P230	T231	H232	D233	V234	T235	S236	E237	R238			
T243	G244	D245	N246	G247	N248	P249	F250	T251	F253	Y254	T255	L256	E257	A258	V259	L261	T262	P263	D264	T265	H266	L267	G268	D269	A270	V271	P272	A273	A274	D275	R276	A277	V279	E280	G281	L282	S283	Q284	H285	A286	A287	P288	N289	R290	T291	T292	S293	R294	F295	G296	R297	D298	C299	F300	V301	G302				
L303	M304	Y305	Y306	N307	S308	G309	G310	N311	L312	G313	V314	L315	A316	G317	Q318	S319	S320	Q321	L322	N323	A324	V325	V326	D327	H328	Q329	D330	R331	N332	T333	E334	L335	S336	Y337	R338	Q339	M339	L340	L341	A342	N343	T344	T345	D346	R347	S348	R349	Y350	F351	S352	M353	W354	N355	Q356	A357	M358	D359	S360	Y361	D362
F363	E364	V365	R366	V367	I368	D369	N370	V371	G372	L373	E374	D375	E376	M377	P378	N379	Y380	F382	L384	S385	G386	V387	Q388	L389	G390	N391	R392	S393	H394	N395	V396	Q397	R398	N399	Q400	M399	L400	Q401	Q402	W403	Q404	N405	A406	A407	N408	S409	D410	R411	N412	Y413	I414	G415	K416	G417	N418	L419	P420	A421	M422	
E423	I424	M425	L426	A427	A428	M429	L430	W431	R432	S433	F434	L435	Y436	M437	S438	V439	A440	L441	Y442	L443	P444	D445	N446	L447	K448	F449	T450	P451	H452	L453	I454	Q455	Q456	P457	M458	N459	T460	M461	T462	Y463	E464	Y465	M466	A467	G468	R469	I470	N471	Y472	S473	G474	L475	I476	D477	T478	Y479	V480	N481	I482	
G483	T484	R485	W486	S487	P488	D489	V490	M491	D492	M493	V494	M495	P496	F497	N498	H499	H500	R501	S503	G504	L505	R506	Y507	R508	S509	Q510	L511	L512	G513	N514	G515	R516	F517	C518	D519	F520	H521	I522	Q523	V524	Y525	Q526	K527	F528	N529	R530	A531	E532	A533	I534	N535	L536	L537	P538	G539	T540	Y541	T542		
Y543	E544	W545	F546	F547	R548	V551	N552	M553	I554	L555	P557	T558	L559	G560	N561	D562	L563	R564	V565	A568	T569	V570	N571	I572	T573	S574	V575	L577	Y578	A579	S580	F581	F582	P583	M584	S585	H586	N587	T588	A589	S590	T591	L592	G593	E594	M595	D596	P597	Y598	N599	L596	R597	Y598	F599	T600	N601	D602	Q603	S604	
F605	N606	D607	Y608	L609	S610	A611	M612	N613	M614	L615	Y616	P617	I618	P619	P620	M621	A622	T623	Q624	L625	P626	I627	P628	S629	R630	M631	W632	A633	A634	F635	P636	G637	W638	S639	L640	T641	R642	L643	K644	Q645	R646	E647	A650	L651	G652	S653	G654	F655	D656	P657	Y658	F659	T660	N661	S662	G663	T664	I665		
P666	Y667	L668	D669	G670	T671	F672	Y673	L674	S675	H676	T677	F678	R679	K680	V681	A682	L683	Q684	F685	S687	R688	V689	T690	W691	P692	G693	N694	D695	R696	L697	L698	T699	P700	N701	E702	F703	E704	I705	K706	I707	S708	V709	D710	L711	E712	G713	Y714	F715	N716	A717	Q718	S719	N720	M721	S722	G723	T724	W725		
F726	L727	V728	Q729	M730	L731	A732	N733	Y734	M735	L736	G737	Y738	Q739	G740	Y741	H742	L743	P744	P745	D746	Y747	K748	D749	W750	T751	F752	S753	F754	L755	H756	D757	F758	I759	P760	M761	C762	R763	Q764	V765	P766	N767	F768	A769	T770	E771	G772	Y773	F774	G775	N776	G777	L778	W779	N780	H781	R782	T783	W784	P785	
A786	Y787	W788	F789	R790	Y791	C792	A793	Y794	P795	R796	E797	G798	H799	P800	Y801	P802	Q803	P744	A805	L806	P807	P808	H809	W810	D811	P812	R813	H814	A815	L816	R817	D818	P819	E820	R821	K822	F823	L824	C825	D826	R827	T828	W830	R831	I832	P833	F834	S835	S836	N837	F838	M839	S840	N841	G842	S843	L844	T845		





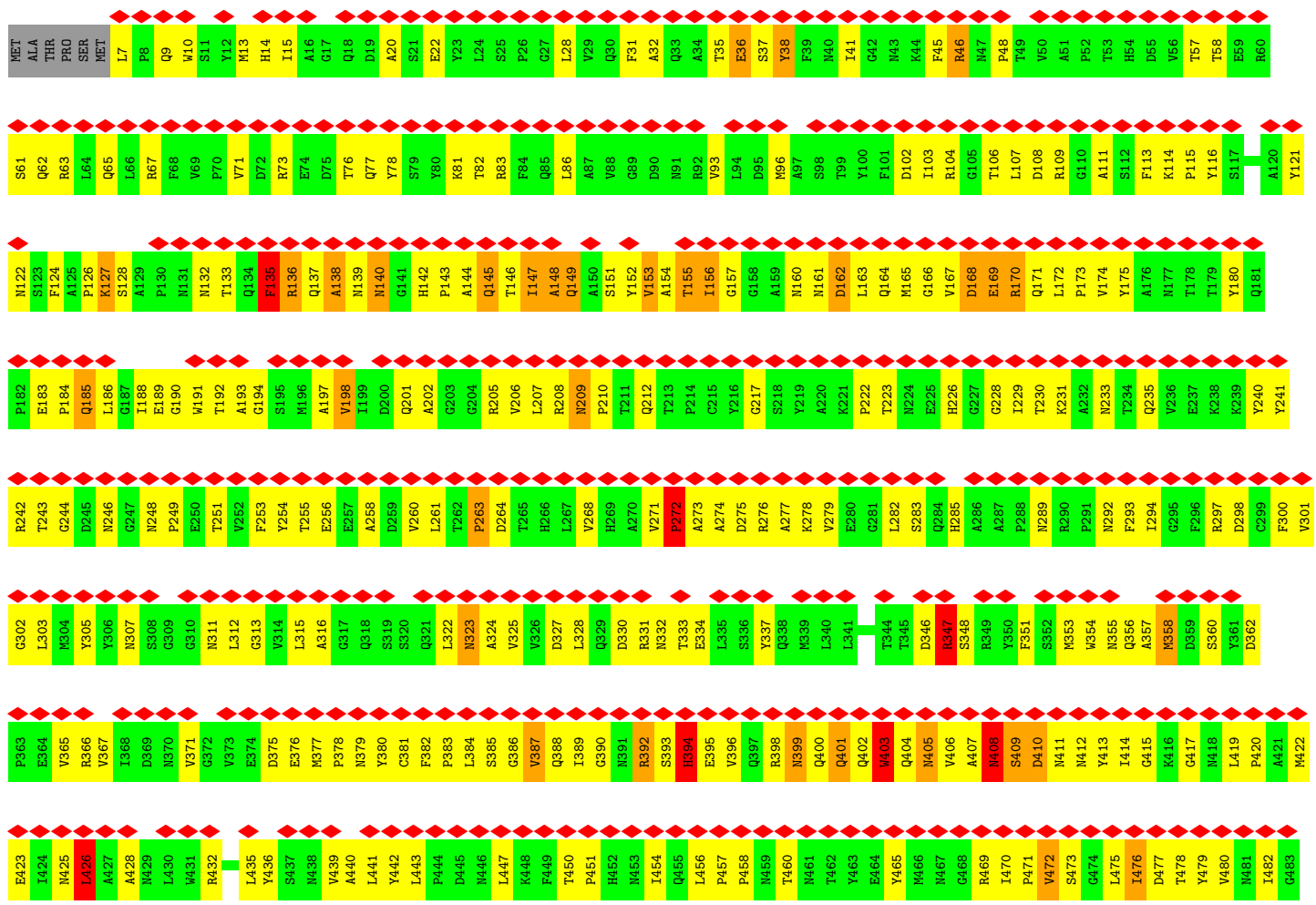
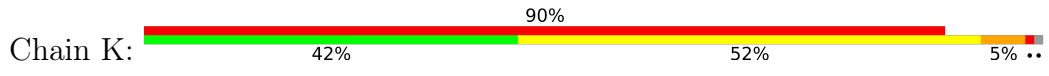
• Molecule 1: HEXON PROTEIN





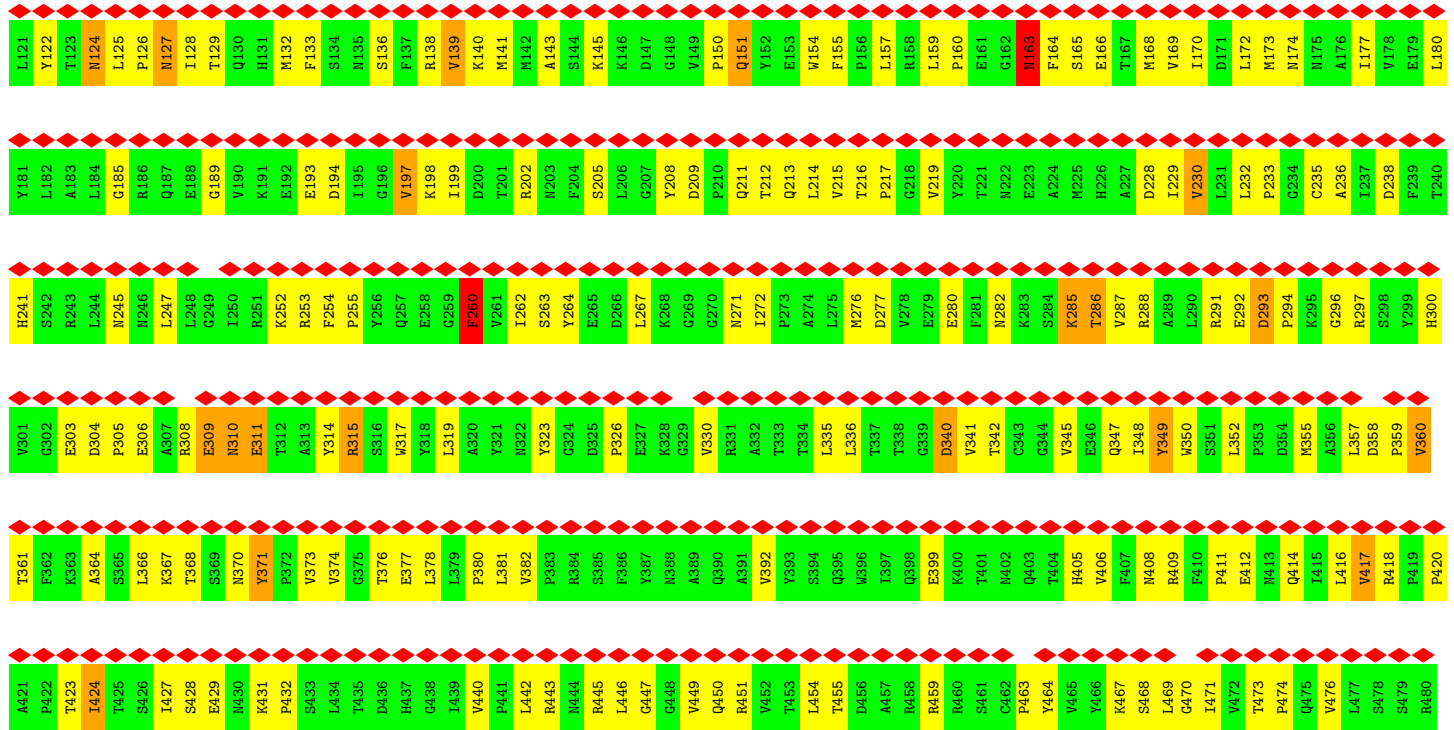
THR

• Molecule 1: HEXON PROTEIN



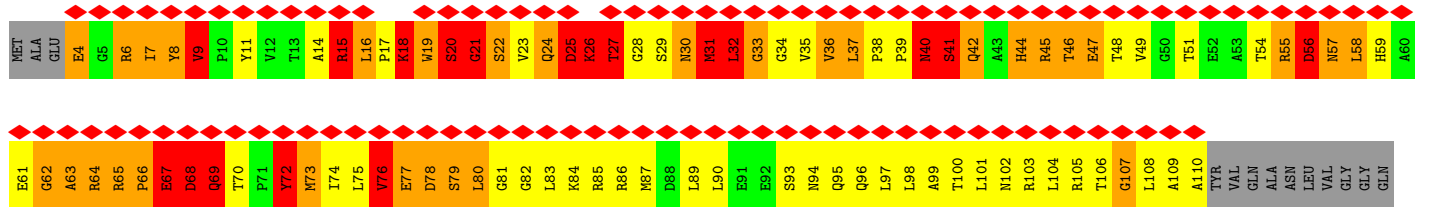
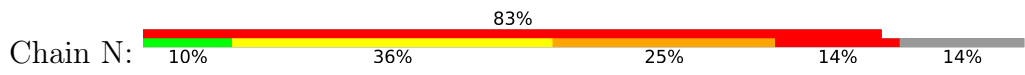






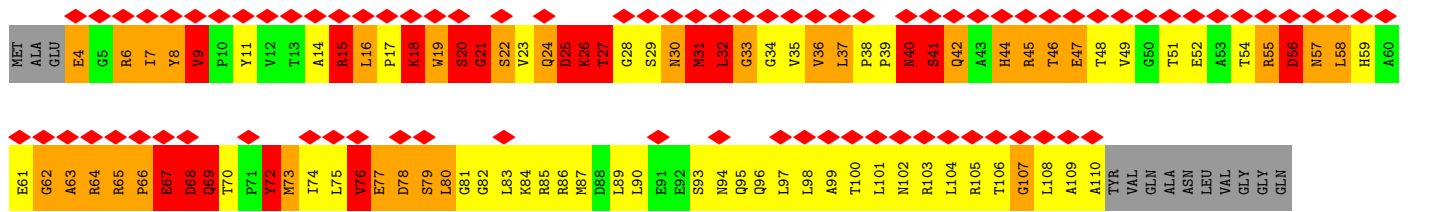
THR  
PHE

• Molecule 3: PIX



VAL  
ASN  
PRO  
PHE  
VAL

• Molecule 3: PIX



VAL  
ASN  
PRO  
PHE  
VAL



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	11910	Depositor
Resolution determination method	Not provided	
CTF correction method	INDIVIDUAL IMAGES	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	25	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	125390	Depositor
Image detector	GENERIC GATAN	Depositor
Maximum map value	34.829	Depositor
Minimum map value	-25.396	Depositor
Average map value	0.159	Depositor
Map value standard deviation	3.830	Depositor
Recommended contour level	9.0	Depositor
Map size ( $\text{\AA}$ )	928.0, 928.0, 928.0	wwPDB
Map dimensions	800, 800, 800	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.16, 1.16, 1.16	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	0.27	0/7431	0.48	0/10139
1	B	0.27	0/7431	0.48	0/10139
1	C	0.27	0/7431	0.48	0/10139
1	D	0.27	0/7431	0.48	0/10139
1	E	0.27	0/7431	0.47	0/10139
1	F	0.27	0/7431	0.48	0/10139
1	G	0.27	0/7431	0.47	0/10139
1	H	0.27	0/7431	0.47	0/10139
1	I	0.27	0/7431	0.48	0/10139
1	J	0.27	0/7432	0.47	0/10141
1	K	0.27	0/7431	0.47	0/10139
1	L	0.27	0/7431	0.48	0/10139
2	M	0.67	2/3682 (0.1%)	1.02	8/5013 (0.2%)
3	N	0.92	4/838 (0.5%)	1.94	34/1135 (3.0%)
3	O	0.92	4/838 (0.5%)	1.93	33/1135 (2.9%)
3	P	0.91	4/838 (0.5%)	1.93	34/1135 (3.0%)
3	Q	0.91	4/838 (0.5%)	1.94	34/1135 (3.0%)
4	R	0.27	0/837	0.42	0/1142
All	All	0.33	18/97044 (0.0%)	0.61	143/132365 (0.1%)

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
2	M	0	2
3	N	1	5
3	O	1	5
3	P	1	5
3	Q	1	5
All	All	4	22



All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	69	GLN	CB-CG	-8.32	1.30	1.52
3	N	69	GLN	CB-CG	-8.31	1.30	1.52
3	P	69	GLN	CB-CG	-8.30	1.30	1.52
3	Q	69	GLN	CB-CG	-8.29	1.30	1.52
2	M	65	LEU	C-N	-6.67	1.18	1.34
3	Q	68	ASP	N-CA	-6.32	1.33	1.46
3	N	68	ASP	N-CA	-6.30	1.33	1.46
3	P	68	ASP	N-CA	-6.29	1.33	1.46
3	O	68	ASP	N-CA	-6.29	1.33	1.46
3	N	72	TYR	CD1-CE1	-5.62	1.30	1.39
3	P	72	TYR	CD1-CE1	-5.61	1.30	1.39
3	O	72	TYR	CD1-CE1	-5.59	1.30	1.39
3	Q	72	TYR	CD1-CE1	-5.59	1.30	1.39
2	M	65	LEU	C-O	5.47	1.33	1.23
3	N	25	ASP	C-O	-5.05	1.13	1.23
3	O	25	ASP	C-O	-5.03	1.13	1.23
3	P	25	ASP	C-O	-5.03	1.13	1.23
3	Q	25	ASP	C-O	-5.02	1.13	1.23

All (143) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Q	68	ASP	N-CA-C	21.04	167.81	111.00
3	P	68	ASP	N-CA-C	21.04	167.79	111.00
3	N	68	ASP	N-CA-C	21.02	167.77	111.00
3	O	68	ASP	N-CA-C	21.02	167.75	111.00
3	N	26	LYS	CA-C-N	-13.04	88.51	117.20
3	Q	26	LYS	CA-C-N	-13.03	88.54	117.20
3	P	26	LYS	CA-C-N	-13.02	88.56	117.20
3	O	26	LYS	CA-C-N	-13.01	88.58	117.20
3	P	67	GLU	CA-C-N	-12.66	89.35	117.20
3	N	67	GLU	CA-C-N	-12.65	89.36	117.20
3	O	67	GLU	CA-C-N	-12.65	89.38	117.20
3	Q	67	GLU	CA-C-N	-12.64	89.39	117.20
3	O	27	THR	N-CA-CB	12.60	134.25	110.30
3	N	27	THR	N-CA-CB	12.60	134.23	110.30
3	P	27	THR	N-CA-CB	12.59	134.21	110.30
3	Q	27	THR	N-CA-CB	12.58	134.20	110.30
3	O	32	LEU	CA-CB-CG	12.16	143.27	115.30
3	P	32	LEU	CA-CB-CG	12.14	143.22	115.30
3	Q	32	LEU	CA-CB-CG	12.13	143.20	115.30
3	N	32	LEU	CA-CB-CG	12.13	143.19	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	68	ASP	CA-C-N	-11.53	91.83	117.20
3	O	68	ASP	CA-C-N	-11.52	91.85	117.20
3	P	68	ASP	CA-C-N	-11.50	91.89	117.20
3	Q	68	ASP	CA-C-N	-11.50	91.89	117.20
3	N	69	GLN	N-CA-CB	10.74	129.93	110.60
3	Q	69	GLN	N-CA-CB	10.73	129.91	110.60
3	O	69	GLN	N-CA-CB	10.72	129.89	110.60
3	P	69	GLN	N-CA-CB	10.70	129.86	110.60
3	P	20	SER	CA-C-N	-10.24	95.72	116.20
3	Q	20	SER	CA-C-N	-10.23	95.73	116.20
3	N	20	SER	CA-C-N	-10.23	95.74	116.20
3	O	20	SER	CA-C-N	-10.21	95.79	116.20
3	N	32	LEU	N-CA-C	-9.81	84.51	111.00
3	Q	32	LEU	N-CA-C	-9.81	84.52	111.00
3	P	32	LEU	N-CA-C	-9.80	84.55	111.00
3	O	32	LEU	N-CA-C	-9.79	84.57	111.00
3	N	31	MET	CA-C-N	-9.79	95.67	117.20
3	P	31	MET	CA-C-N	-9.77	95.70	117.20
3	Q	31	MET	CA-C-N	-9.77	95.71	117.20
3	O	31	MET	CA-C-N	-9.76	95.74	117.20
3	Q	68	ASP	CB-CG-OD2	9.69	127.03	118.30
3	N	68	ASP	CB-CG-OD2	9.66	126.99	118.30
3	P	68	ASP	CB-CG-OD2	9.64	126.98	118.30
3	O	68	ASP	CB-CG-OD2	9.62	126.96	118.30
3	Q	68	ASP	CB-CG-OD1	-9.60	109.66	118.30
3	N	68	ASP	CB-CG-OD1	-9.58	109.67	118.30
3	P	68	ASP	CB-CG-OD1	-9.56	109.69	118.30
3	O	68	ASP	CB-CG-OD1	-9.55	109.71	118.30
3	P	68	ASP	N-CA-CB	-9.11	94.19	110.60
3	Q	68	ASP	N-CA-CB	-9.10	94.22	110.60
3	N	68	ASP	N-CA-CB	-9.10	94.22	110.60
3	O	68	ASP	N-CA-CB	-9.09	94.24	110.60
3	Q	26	LYS	O-C-N	9.07	137.22	122.70
3	N	26	LYS	O-C-N	9.05	137.19	122.70
3	O	26	LYS	O-C-N	9.05	137.18	122.70
3	P	26	LYS	O-C-N	9.05	137.18	122.70
3	N	9	VAL	N-CA-CB	-8.07	93.73	111.50
3	P	9	VAL	N-CA-CB	-8.07	93.75	111.50
3	O	9	VAL	N-CA-CB	-8.07	93.76	111.50
3	Q	9	VAL	N-CA-CB	-8.06	93.77	111.50
3	P	67	GLU	O-C-N	7.93	135.39	122.70
3	N	67	GLU	O-C-N	7.93	135.38	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Q	67	GLU	O-C-N	7.92	135.38	122.70
3	O	67	GLU	O-C-N	7.90	135.34	122.70
3	P	69	GLN	CA-CB-CG	7.87	130.70	113.40
3	N	69	GLN	CA-CB-CG	7.86	130.68	113.40
3	Q	69	GLN	CA-CB-CG	7.85	130.67	113.40
3	O	69	GLN	CA-CB-CG	7.85	130.67	113.40
2	M	96	THR	CA-CB-CG2	7.10	122.34	112.40
2	M	309	GLU	CA-CB-CG	-7.07	97.85	113.40
3	N	32	LEU	N-CA-CB	-6.88	96.63	110.40
3	P	32	LEU	N-CA-CB	-6.86	96.67	110.40
3	Q	32	LEU	N-CA-CB	-6.86	96.69	110.40
3	O	32	LEU	N-CA-CB	-6.83	96.73	110.40
3	Q	68	ASP	O-C-N	6.78	133.55	122.70
3	N	68	ASP	O-C-N	6.78	133.55	122.70
3	O	68	ASP	O-C-N	6.77	133.53	122.70
3	P	68	ASP	O-C-N	6.72	133.46	122.70
3	N	9	VAL	CB-CA-C	6.52	123.79	111.40
3	Q	9	VAL	CB-CA-C	6.51	123.78	111.40
3	P	9	VAL	CB-CA-C	6.51	123.76	111.40
3	O	9	VAL	CB-CA-C	6.50	123.75	111.40
3	Q	68	ASP	CB-CA-C	-6.32	97.76	110.40
3	N	68	ASP	CB-CA-C	-6.30	97.81	110.40
3	O	68	ASP	CB-CA-C	-6.30	97.81	110.40
3	P	68	ASP	CB-CA-C	-6.30	97.81	110.40
3	Q	26	LYS	CB-CA-C	-6.05	98.30	110.40
3	O	26	LYS	CB-CA-C	-6.04	98.32	110.40
3	P	26	LYS	CB-CA-C	-6.01	98.37	110.40
3	N	26	LYS	CB-CA-C	-6.00	98.39	110.40
3	O	31	MET	CA-C-O	5.81	132.31	120.10
3	N	31	MET	CA-C-O	5.80	132.29	120.10
3	P	31	MET	CA-C-O	5.79	132.26	120.10
3	Q	31	MET	CA-C-O	5.79	132.25	120.10
2	M	73	ILE	CG1-CB-CG2	-5.70	98.86	111.40
3	Q	18	LYS	N-CA-C	-5.63	95.80	111.00
3	P	18	LYS	N-CA-C	-5.63	95.80	111.00
3	N	18	LYS	N-CA-C	-5.63	95.80	111.00
3	O	18	LYS	N-CA-C	-5.62	95.82	111.00
2	M	349	TYR	CB-CG-CD1	-5.57	117.66	121.00
3	O	26	LYS	C-N-CA	5.54	135.56	121.70
3	Q	26	LYS	C-N-CA	5.54	135.56	121.70
3	P	26	LYS	C-N-CA	5.53	135.52	121.70
2	M	260	PHE	CB-CG-CD2	-5.53	116.93	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	26	LYS	C-N-CA	5.53	135.52	121.70
2	M	352	LEU	CB-CG-CD2	-5.52	101.61	111.00
2	M	230	VAL	CG1-CB-CG2	-5.51	102.09	110.90
3	P	20	SER	O-C-N	5.46	132.49	123.20
3	Q	20	SER	O-C-N	5.44	132.46	123.20
3	N	20	SER	O-C-N	5.43	132.44	123.20
3	O	20	SER	O-C-N	5.43	132.43	123.20
3	O	20	SER	N-CA-C	5.43	125.65	111.00
3	N	20	SER	N-CA-C	5.42	125.64	111.00
3	P	20	SER	N-CA-C	5.41	125.61	111.00
3	Q	20	SER	N-CA-C	5.41	125.61	111.00
3	Q	62	GLY	N-CA-C	5.39	126.57	113.10
3	O	62	GLY	N-CA-C	5.39	126.57	113.10
3	P	62	GLY	N-CA-C	5.38	126.55	113.10
3	N	62	GLY	N-CA-C	5.38	126.54	113.10
3	P	36	VAL	N-CA-CB	5.36	123.29	111.50
3	O	36	VAL	N-CA-CB	5.35	123.27	111.50
3	Q	36	VAL	N-CA-CB	5.35	123.27	111.50
3	N	36	VAL	N-CA-CB	5.34	123.24	111.50
3	Q	76	VAL	N-CA-C	-5.33	96.62	111.00
3	O	76	VAL	N-CA-C	-5.32	96.65	111.00
3	P	76	VAL	N-CA-C	-5.31	96.67	111.00
3	N	76	VAL	N-CA-C	-5.31	96.67	111.00
2	M	44	ALA	N-CA-CB	5.19	117.37	110.10
3	P	36	VAL	CB-CA-C	-5.15	101.62	111.40
3	Q	20	SER	CA-C-O	5.14	130.90	120.10
3	N	20	SER	CA-C-O	5.14	130.90	120.10
3	N	36	VAL	CB-CA-C	-5.14	101.64	111.40
3	P	20	SER	CA-C-O	5.13	130.88	120.10
3	O	20	SER	CA-C-O	5.12	130.86	120.10
3	O	36	VAL	CB-CA-C	-5.12	101.66	111.40
3	Q	36	VAL	CB-CA-C	-5.12	101.68	111.40
3	Q	21	GLY	CA-C-O	-5.09	111.44	120.60
3	O	21	GLY	CA-C-O	-5.09	111.44	120.60
3	N	21	GLY	CA-C-O	-5.08	111.46	120.60
3	P	21	GLY	CA-C-O	-5.07	111.48	120.60
3	Q	31	MET	O-C-N	5.02	130.73	122.70
3	P	31	MET	O-C-N	5.01	130.72	122.70
3	N	31	MET	O-C-N	5.01	130.72	122.70

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	N	68	ASP	CA
3	O	68	ASP	CA
3	P	68	ASP	CA
3	Q	68	ASP	CA

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	M	282	ASN	Peptide
2	M	371	TYR	Sidechain
3	N	26	LYS	Mainchain
3	N	67	GLU	Mainchain,Peptide
3	N	68	ASP	Mainchain
3	N	72	TYR	Sidechain
3	O	26	LYS	Mainchain
3	O	67	GLU	Mainchain,Peptide
3	O	68	ASP	Mainchain
3	O	72	TYR	Sidechain
3	P	26	LYS	Mainchain
3	P	67	GLU	Mainchain,Peptide
3	P	68	ASP	Mainchain
3	P	72	TYR	Sidechain
3	Q	26	LYS	Mainchain
3	Q	67	GLU	Mainchain,Peptide
3	Q	68	ASP	Mainchain
3	Q	72	TYR	Sidechain

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

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7222	0	6877	712	0
1	B	7222	0	6873	816	0
1	C	7222	0	6877	663	0
1	D	7222	0	6875	756	0
1	E	7222	0	6877	781	0
1	F	7222	0	6878	650	0
1	G	7222	0	6875	827	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	H	7222	0	6878	727	0
1	I	7222	0	6878	646	0
1	J	7223	0	6875	835	0
1	K	7222	0	6875	745	0
1	L	7222	0	6871	698	0
2	M	3596	0	3533	265	0
3	N	826	0	826	443	0
3	O	826	0	826	465	0
3	P	826	0	821	501	0
3	Q	826	0	828	308	0
4	R	812	0	744	192	0
All	All	94377	0	90087	8994	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 49.

All (8994) 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:E:632:TRP:CD1	1:G:321:GLN:HB3	1.25	1.68
1:K:658:TYR:CZ	3:P:39:PRO:HD3	1.33	1.64
3:N:83:LEU:CD2	3:P:83:LEU:HD21	1.18	1.64
3:N:104:LEU:CD2	3:O:104:LEU:HD13	1.26	1.63
1:E:909:ALA:HB3	1:G:544:GLU:CB	1.25	1.62
3:N:83:LEU:HD22	3:P:83:LEU:CD2	1.31	1.57
3:N:83:LEU:CD2	3:P:83:LEU:CD2	1.82	1.56
1:K:77:GLN:HE22	3:P:52:GLU:CB	1.11	1.55
3:O:104:LEU:HD21	3:P:104:LEU:CD1	1.34	1.55
3:N:90:LEU:CG	3:P:90:LEU:HD21	1.32	1.54
3:N:104:LEU:HD21	3:O:104:LEU:CD1	1.37	1.54
1:H:820:GLU:CG	3:Q:46:THR:HG21	1.35	1.54
3:N:97:LEU:CG	3:P:97:LEU:HD21	1.06	1.53
3:O:90:LEU:HD21	3:P:90:LEU:CG	1.06	1.53
1:E:909:ALA:CB	1:G:544:GLU:HB2	1.39	1.51
1:L:170:ARG:NH2	3:P:98:LEU:CB	1.71	1.51
3:O:104:LEU:CD2	3:P:104:LEU:HD13	1.34	1.51
1:B:859:ALA:CB	1:D:630:ARG:NH2	1.74	1.50
3:N:83:LEU:CD2	3:O:83:LEU:HD22	1.29	1.50
3:N:83:LEU:HD21	3:O:83:LEU:CD2	1.29	1.49
1:B:653:SER:CB	1:J:77:GLN:NE2	1.73	1.48
1:B:653:SER:HB3	1:J:77:GLN:NE2	1.18	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:90:LEU:HD21	3:O:90:LEU:CG	0.99	1.44
1:B:653:SER:CB	1:J:77:GLN:HE22	1.29	1.43
1:H:9:GLN:NE2	4:R:31:MET:CE	1.81	1.43
1:B:859:ALA:HB2	1:D:630:ARG:NH2	1.17	1.43
3:N:83:LEU:CD2	3:O:83:LEU:CD2	1.78	1.43
1:G:855:ASN:ND2	4:R:178:VAL:HG23	1.17	1.42
3:N:104:LEU:CG	3:O:104:LEU:HD13	1.50	1.41
1:B:890:PRO:CG	1:J:910:THR:N	1.82	1.40
1:B:685:PHE:CA	1:D:909:ALA:HB3	1.52	1.40
1:E:632:TRP:CD1	1:G:321:GLN:CB	2.06	1.39
1:B:689:VAL:CG2	1:D:906:ALA:HB3	1.52	1.38
1:K:658:TYR:CE1	3:P:39:PRO:HD3	1.57	1.38
1:H:820:GLU:HG2	3:Q:46:THR:CG2	1.55	1.36
1:B:890:PRO:HG2	1:J:910:THR:N	1.09	1.36
1:B:891:HIS:CB	1:J:630:ARG:NH2	1.86	1.36
1:B:686:ASP:OD1	1:D:632:TRP:CZ3	1.77	1.35
1:C:89:GLY:HA2	1:D:321:GLN:CD	1.32	1.35
1:K:77:GLN:NE2	3:P:52:GLU:HB3	1.06	1.35
1:C:89:GLY:CA	1:D:321:GLN:NE2	1.87	1.35
1:B:891:HIS:HB3	1:J:630:ARG:NH2	1.31	1.35
3:O:90:LEU:CG	3:P:90:LEU:CD2	2.04	1.35
3:N:104:LEU:HD11	3:O:104:LEU:CD1	1.57	1.34
3:O:104:LEU:HD21	3:P:104:LEU:CG	1.57	1.34
1:A:314:VAL:CG2	2:M:366:LEU:CD1	2.05	1.33
1:G:855:ASN:ND2	4:R:178:VAL:CG2	1.91	1.33
1:B:632:TRP:HB2	1:J:321:GLN:CG	1.57	1.32
3:Q:29:SER:OG	3:Q:34:GLY:HA2	1.25	1.32
1:B:689:VAL:HA	1:D:906:ALA:CB	1.38	1.32
3:O:24:GLN:NE2	3:P:8:TYR:CD1	1.98	1.31
3:P:29:SER:OG	3:P:34:GLY:HA2	1.25	1.31
1:B:891:HIS:CB	1:J:630:ARG:HH21	1.42	1.30
1:B:309:GLY:HA3	1:J:654:PRO:CG	1.60	1.29
1:H:820:GLU:CG	3:Q:46:THR:CG2	2.08	1.29
1:H:9:GLN:NE2	4:R:31:MET:HE3	0.97	1.28
1:J:9:GLN:HB2	4:R:15:PRO:O	1.30	1.28
3:O:29:SER:OG	3:O:34:GLY:HA2	1.25	1.28
3:N:104:LEU:HD21	3:O:104:LEU:CG	1.64	1.27
1:G:856:ALA:CB	4:R:11:TRP:O	1.80	1.27
1:B:909:ALA:HB2	1:J:544:GLU:OE1	1.15	1.27
1:C:89:GLY:HA2	1:D:321:GLN:NE2	0.95	1.27
3:O:104:LEU:CG	3:P:104:LEU:HD13	1.64	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:689:VAL:CB	1:D:906:ALA:HB3	1.63	1.27
1:B:909:ALA:CB	1:J:544:GLU:OE1	1.80	1.27
3:N:29:SER:OG	3:N:34:GLY:HA2	1.25	1.26
3:N:104:LEU:CD1	3:O:104:LEU:HD11	1.64	1.26
1:A:314:VAL:CG2	2:M:366:LEU:HD11	1.65	1.26
1:E:87:ALA:HB1	1:L:686:ASP:OD1	1.25	1.26
1:E:909:ALA:CB	1:G:544:GLU:CG	2.12	1.26
1:G:856:ALA:HB1	4:R:11:TRP:O	1.24	1.25
1:E:630:ARG:NH2	1:G:71:VAL:HG21	1.48	1.25
3:N:104:LEU:HD13	3:P:104:LEU:CD2	1.66	1.25
1:E:309:GLY:O	1:G:653:SER:HB2	1.31	1.24
3:N:97:LEU:CD1	3:P:97:LEU:HG	1.67	1.24
1:B:686:ASP:N	1:D:909:ALA:N	1.78	1.24
1:J:7:LEU:HD23	4:R:14:GLN:O	1.37	1.24
1:B:685:PHE:HA	1:D:909:ALA:CB	1.68	1.24
3:N:8:TYR:CD1	3:P:24:GLN:NE2	2.07	1.23
1:B:632:TRP:CD1	1:J:321:GLN:HB3	1.72	1.22
1:H:9:GLN:HE22	4:R:31:MET:CG	1.51	1.22
3:N:8:TYR:CE1	3:P:24:GLN:NE2	2.08	1.22
1:E:908:ASN:C	1:G:83:ARG:HH11	1.43	1.21
1:A:907:GLY:O	2:M:103:HIS:HE1	1.21	1.21
1:K:658:TYR:CZ	3:P:39:PRO:CD	2.21	1.21
1:E:632:TRP:HD1	1:G:321:GLN:CB	1.44	1.20
1:H:769:ALA:CB	3:Q:57:ASN:O	1.90	1.20
3:N:104:LEU:CD1	3:P:104:LEU:HD21	1.71	1.20
3:N:90:LEU:CD2	3:P:90:LEU:CG	2.18	1.20
1:K:820:GLU:CG	3:O:46:THR:HG21	1.70	1.19
1:L:852:LEU:CD2	4:R:213:SER:HB3	1.71	1.19
3:N:75:LEU:HG	3:N:76:VAL:N	1.47	1.19
1:B:653:SER:HA	1:J:78:TYR:CE2	1.78	1.18
1:B:908:ASN:O	1:J:83:ARG:NH1	1.74	1.18
3:O:90:LEU:CD2	3:P:90:LEU:CG	1.75	1.18
1:L:852:LEU:HD22	4:R:213:SER:CB	1.73	1.18
3:O:25:ASP:O	3:O:69:GLN:CB	1.92	1.18
1:H:813:ARG:HH21	1:I:263:PRO:HD3	1.09	1.18
1:E:652:GLY:C	1:G:78:TYR:OH	1.82	1.17
1:B:689:VAL:CA	1:D:906:ALA:CB	2.14	1.17
1:E:60:ARG:CD	1:J:59:GLU:O	1.92	1.17
3:O:93:SER:HB3	3:P:94:ASN:OD1	1.45	1.17
3:P:25:ASP:O	3:P:69:GLN:CB	1.92	1.17
1:B:309:GLY:HA3	1:J:654:PRO:HG3	1.26	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:67:ARG:NH2	1:D:81:LYS:NZ	1.93	1.17
3:N:25:ASP:O	3:N:69:GLN:CB	1.92	1.17
3:Q:25:ASP:O	3:Q:69:GLN:CB	1.92	1.17
1:J:263:PRO:HD3	1:L:813:ARG:HH21	1.08	1.16
3:O:104:LEU:CD2	3:P:104:LEU:HD22	1.74	1.16
1:A:314:VAL:CG2	2:M:366:LEU:HD12	1.73	1.16
1:C:89:GLY:CA	1:D:321:GLN:CD	2.13	1.16
1:E:60:ARG:HD3	1:J:59:GLU:O	0.99	1.16
3:Q:16:LEU:HD22	3:Q:17:PRO:HD3	1.20	1.16
1:B:813:ARG:HH21	1:C:263:PRO:HD3	1.09	1.16
1:H:68:PHE:CE1	1:L:321:GLN:OE1	1.91	1.16
3:N:90:LEU:CG	3:O:90:LEU:CD2	2.23	1.16
1:C:67:ARG:NH2	1:D:81:LYS:HZ1	1.43	1.15
3:N:93:SER:CB	3:O:94:ASN:OD1	1.94	1.15
1:E:632:TRP:HB2	1:G:321:GLN:HG2	1.15	1.15
3:N:104:LEU:CD1	3:O:104:LEU:CD1	2.21	1.15
3:N:97:LEU:CD1	3:P:97:LEU:CG	2.25	1.15
3:O:75:LEU:CG	3:O:76:VAL:H	1.58	1.15
1:B:689:VAL:HG22	1:D:906:ALA:CB	1.76	1.14
3:N:90:LEU:HD22	3:P:90:LEU:CG	1.76	1.14
3:O:104:LEU:HD22	3:P:104:LEU:HD22	1.18	1.14
3:N:90:LEU:HD21	3:O:90:LEU:CD1	1.78	1.14
1:B:859:ALA:HB1	1:D:630:ARG:HH22	1.11	1.14
3:N:16:LEU:HD22	3:N:17:PRO:HD3	1.20	1.14
3:Q:75:LEU:HG	3:Q:76:VAL:N	1.48	1.14
1:G:263:PRO:HD3	1:I:813:ARG:HH21	1.08	1.13
3:N:93:SER:HB3	3:O:94:ASN:OD1	1.48	1.13
3:N:104:LEU:CD1	3:P:104:LEU:HD11	1.77	1.13
3:O:75:LEU:HG	3:O:76:VAL:N	1.48	1.13
1:B:686:ASP:OD1	1:D:632:TRP:CE3	2.01	1.13
3:N:90:LEU:CD2	3:O:90:LEU:CD1	2.27	1.13
3:O:25:ASP:HA	3:O:38:PRO:CB	1.78	1.13
1:E:321:GLN:OE1	1:G:614:MET:CE	1.97	1.13
2:M:89:ILE:HD11	2:M:446:LEU:HD21	1.23	1.13
3:P:75:LEU:CG	3:P:76:VAL:H	1.58	1.12
1:K:564:ARG:HG2	3:P:31:MET:O	1.49	1.12
3:N:90:LEU:CD2	3:O:90:LEU:HD23	1.67	1.12
1:E:908:ASN:C	1:G:544:GLU:OE1	1.88	1.12
3:O:93:SER:CB	3:P:94:ASN:OD1	1.97	1.12
3:Q:25:ASP:HA	3:Q:38:PRO:CB	1.78	1.12
1:B:891:HIS:CG	1:J:630:ARG:HH21	1.68	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:7:LEU:HD21	4:R:14:GLN:HB3	1.30	1.12
3:N:17:PRO:HG3	3:N:22:SER:OG	1.50	1.12
3:N:25:ASP:HA	3:N:38:PRO:CB	1.78	1.12
3:O:104:LEU:CD1	3:P:104:LEU:HD11	1.77	1.12
1:A:328:LEU:CD2	2:M:102:ASN:HA	1.78	1.12
3:N:75:LEU:CG	3:N:76:VAL:H	1.58	1.12
3:P:25:ASP:HA	3:P:38:PRO:CB	1.78	1.12
3:P:25:ASP:HA	3:P:38:PRO:HB3	1.12	1.12
3:N:25:ASP:HA	3:N:38:PRO:HB3	1.12	1.11
3:N:97:LEU:HD13	3:P:97:LEU:HG	1.13	1.11
3:O:16:LEU:HD22	3:O:17:PRO:HD3	1.20	1.11
3:O:90:LEU:CG	3:P:90:LEU:HD21	1.73	1.11
1:E:309:GLY:HA3	1:G:654:PRO:CD	1.81	1.11
3:N:104:LEU:CD2	3:O:104:LEU:CD1	2.07	1.11
1:A:74:GLU:OE2	2:M:367:LYS:HD3	1.40	1.11
1:L:170:ARG:NH2	3:P:98:LEU:HB3	0.79	1.11
1:A:907:GLY:O	2:M:103:HIS:CE1	2.04	1.11
1:I:136:ARG:HB3	1:I:136:ARG:HH11	1.15	1.11
1:K:658:TYR:HB3	3:P:26:LYS:HG3	1.27	1.11
3:O:76:VAL:C	3:O:80:LEU:HD12	1.71	1.11
1:D:263:PRO:HD3	1:F:813:ARG:HH21	1.08	1.10
3:P:16:LEU:HD22	3:P:17:PRO:HD3	1.20	1.10
3:P:17:PRO:HG3	3:P:22:SER:OG	1.50	1.10
3:N:104:LEU:HD22	3:O:104:LEU:HD22	1.25	1.10
3:O:17:PRO:HG3	3:O:22:SER:OG	1.50	1.10
3:Q:17:PRO:HG3	3:Q:22:SER:OG	1.50	1.10
1:E:908:ASN:C	1:G:83:ARG:NH1	2.04	1.10
1:K:136:ARG:HB3	1:K:136:ARG:HH11	1.15	1.10
3:N:76:VAL:C	3:N:80:LEU:HD12	1.71	1.10
3:O:25:ASP:HA	3:O:38:PRO:HB3	1.12	1.10
3:O:90:LEU:HG	3:P:90:LEU:CD1	1.80	1.10
3:P:75:LEU:HG	3:P:76:VAL:N	1.47	1.10
3:Q:75:LEU:CG	3:Q:76:VAL:H	1.58	1.10
1:D:687:SER:HB2	1:J:69:VAL:CG2	1.82	1.10
1:H:820:GLU:HG2	3:Q:46:THR:HG23	1.31	1.09
1:K:820:GLU:HG2	3:O:46:THR:CG2	1.82	1.09
3:N:87:MET:CG	3:P:86:ARG:NE	2.14	1.09
3:O:104:LEU:HD11	3:P:104:LEU:CD1	1.81	1.09
3:Q:76:VAL:C	3:Q:80:LEU:HD12	1.72	1.09
1:A:314:VAL:HG21	2:M:366:LEU:CD1	1.75	1.09
1:E:888:HIS:NE2	4:R:30:ARG:NH2	2.00	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:684:GLN:O	1:D:909:ALA:HB2	1.53	1.09
1:K:813:ARG:HH21	1:L:263:PRO:HD3	1.09	1.09
1:L:170:ARG:HG3	3:P:102:ASN:ND2	1.62	1.09
1:H:136:ARG:HB3	1:H:136:ARG:HH11	1.15	1.09
3:P:76:VAL:C	3:P:80:LEU:HD12	1.72	1.09
1:E:641:THR:HG22	1:E:642:ARG:H	1.18	1.08
1:G:136:ARG:HB3	1:G:136:ARG:HH11	1.14	1.08
1:K:658:TYR:OH	3:P:39:PRO:CD	2.02	1.08
3:P:40:ASN:OD1	3:P:72:TYR:OH	1.72	1.08
1:D:813:ARG:HH21	1:E:263:PRO:HD3	1.19	1.08
1:E:813:ARG:HH21	1:F:263:PRO:HD3	1.09	1.08
1:A:263:PRO:HD3	1:C:813:ARG:HH21	1.08	1.08
1:D:136:ARG:HB3	1:D:136:ARG:HH11	1.14	1.08
3:N:87:MET:HG2	3:P:86:ARG:NE	1.65	1.08
3:N:104:LEU:CG	3:O:104:LEU:CD1	2.29	1.08
3:O:24:GLN:NE2	3:P:8:TYR:CE1	2.20	1.08
3:O:40:ASN:OD1	3:O:72:TYR:OH	1.72	1.08
3:P:65:ARG:CZ	3:P:65:ARG:HA	1.84	1.08
1:E:630:ARG:HH22	1:G:71:VAL:CG2	1.66	1.08
1:K:658:TYR:OH	3:P:39:PRO:HD3	1.54	1.08
3:Q:16:LEU:HD13	3:Q:17:PRO:HD2	1.34	1.08
1:A:813:ARG:HH21	1:B:263:PRO:HD3	1.19	1.07
1:B:641:THR:HG22	1:B:642:ARG:H	1.18	1.07
1:F:136:ARG:HB3	1:F:136:ARG:HH11	1.15	1.07
1:G:687:SER:HB2	1:L:632:TRP:CD2	1.78	1.07
3:N:24:GLN:NE2	3:O:8:TYR:CD1	2.21	1.07
3:N:25:ASP:O	3:N:69:GLN:HB2	1.54	1.07
3:O:16:LEU:HD13	3:O:17:PRO:HD2	1.34	1.07
3:O:25:ASP:O	3:O:69:GLN:HB2	1.54	1.07
3:Q:25:ASP:HA	3:Q:38:PRO:HB3	1.12	1.07
1:B:136:ARG:HB3	1:B:136:ARG:HH11	1.15	1.07
1:B:689:VAL:HG22	1:D:906:ALA:HB3	1.08	1.07
1:G:857:ALA:O	4:R:12:THR:HG22	1.52	1.07
1:L:852:LEU:HD22	4:R:213:SER:HB3	1.09	1.07
3:Q:40:ASN:OD1	3:Q:72:TYR:OH	1.71	1.07
1:H:9:GLN:CD	4:R:31:MET:HE3	1.75	1.07
1:H:820:GLU:HG3	3:Q:46:THR:HG21	1.30	1.07
1:J:9:GLN:CB	4:R:15:PRO:O	2.02	1.07
3:N:97:LEU:HD11	3:O:97:LEU:HD11	1.36	1.07
1:B:653:SER:HA	1:J:78:TYR:HE2	0.97	1.07
1:H:9:GLN:NE2	4:R:31:MET:HB2	1.68	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:40:ASN:OD1	3:N:72:TYR:OH	1.72	1.07
3:N:90:LEU:HD23	3:P:90:LEU:CD2	1.55	1.07
3:N:94:ASN:OD1	3:P:93:SER:HB3	1.53	1.07
3:O:24:GLN:NE2	3:P:8:TYR:HD1	1.40	1.07
3:P:65:ARG:HA	3:P:65:ARG:NH1	1.70	1.07
1:A:136:ARG:HB3	1:A:136:ARG:HH11	1.15	1.06
3:N:65:ARG:HA	3:N:65:ARG:CZ	1.84	1.06
3:Q:65:ARG:HA	3:Q:65:ARG:NH1	1.70	1.06
1:E:653:SER:HB3	1:G:78:TYR:HE2	1.20	1.06
3:O:65:ARG:CZ	3:O:65:ARG:HA	1.84	1.06
3:Q:65:ARG:HA	3:Q:65:ARG:CZ	1.84	1.06
3:Q:77:GLU:HA	3:Q:80:LEU:HB2	1.38	1.06
1:C:136:ARG:HB3	1:C:136:ARG:HH11	1.15	1.06
3:O:16:LEU:HD22	3:O:17:PRO:CD	1.86	1.06
3:P:34:GLY:CA	3:P:64:ARG:HD3	1.86	1.06
1:J:813:ARG:HH21	1:K:263:PRO:HD3	1.19	1.06
1:E:309:GLY:C	1:G:654:PRO:HD2	1.75	1.06
3:N:34:GLY:CA	3:N:64:ARG:HD3	1.86	1.06
3:O:65:ARG:HA	3:O:65:ARG:NH1	1.70	1.06
3:Q:32:LEU:HD23	3:Q:55:ARG:HB3	1.34	1.06
1:E:653:SER:N	1:G:78:TYR:OH	1.86	1.05
1:J:7:LEU:CD2	4:R:14:GLN:HB3	1.86	1.05
1:J:136:ARG:HB3	1:J:136:ARG:HH11	1.15	1.05
3:N:104:LEU:HD13	3:P:104:LEU:CG	1.86	1.05
3:N:32:LEU:HD23	3:N:55:ARG:HB3	1.34	1.05
3:N:104:LEU:HD11	3:P:104:LEU:HD11	1.08	1.05
3:O:104:LEU:CD2	3:P:104:LEU:CD1	2.09	1.05
3:Q:34:GLY:CA	3:Q:64:ARG:HD3	1.86	1.05
1:B:860:LEU:HA	1:D:909:ALA:HB1	1.29	1.05
1:B:894:VAL:HG13	1:J:908:ASN:O	1.52	1.05
3:N:65:ARG:HA	3:N:65:ARG:NH1	1.70	1.05
3:N:104:LEU:HD13	3:P:104:LEU:HD21	1.09	1.05
3:O:58:LEU:H	3:O:58:LEU:HD12	1.21	1.05
3:P:32:LEU:HD23	3:P:55:ARG:HB3	1.34	1.05
1:E:909:ALA:HB2	1:G:544:GLU:OE1	1.55	1.05
1:E:60:ARG:CG	1:J:60:ARG:HA	1.86	1.04
1:E:909:ALA:CB	1:G:544:GLU:OE1	2.05	1.04
1:G:813:ARG:HH21	1:H:263:PRO:HD3	1.19	1.04
1:K:641:THR:HG22	1:K:642:ARG:H	1.18	1.04
3:N:16:LEU:HD22	3:N:17:PRO:CD	1.86	1.04
3:O:34:GLY:CA	3:O:64:ARG:HD3	1.86	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:686:ASP:N	1:D:909:ALA:CA	2.20	1.04
1:B:909:ALA:HB3	1:J:544:GLU:HB2	1.35	1.04
3:N:16:LEU:HD13	3:N:17:PRO:HD2	1.34	1.04
3:N:77:GLU:HA	3:N:80:LEU:HB2	1.38	1.04
3:P:16:LEU:HD22	3:P:17:PRO:CD	1.86	1.04
3:P:77:GLU:HA	3:P:80:LEU:HB2	1.38	1.04
1:H:641:THR:HG22	1:H:642:ARG:H	1.18	1.04
3:N:90:LEU:HG	3:O:90:LEU:HD13	1.36	1.04
3:P:16:LEU:HD13	3:P:17:PRO:HD2	1.34	1.04
3:P:25:ASP:O	3:P:69:GLN:HB2	1.54	1.04
1:B:632:TRP:HB2	1:J:321:GLN:HG2	1.04	1.04
1:L:136:ARG:HH11	1:L:136:ARG:HB3	1.15	1.04
1:E:136:ARG:HB3	1:E:136:ARG:HH11	1.15	1.04
1:E:309:GLY:CA	1:G:654:PRO:HD2	1.88	1.04
1:H:767:ASN:ND2	3:Q:58:LEU:HB3	1.73	1.04
1:I:641:THR:HG22	1:I:642:ARG:H	1.22	1.04
1:K:820:GLU:CG	3:O:46:THR:CG2	2.33	1.04
1:K:769:ALA:HB2	3:O:57:ASN:O	1.56	1.03
3:Q:16:LEU:HD22	3:Q:17:PRO:CD	1.86	1.03
1:E:321:GLN:OE1	1:G:614:MET:HE2	1.56	1.03
1:E:653:SER:HB3	1:G:78:TYR:CE2	1.94	1.03
1:E:909:ALA:HB2	1:G:544:GLU:CG	1.83	1.03
1:G:687:SER:HB2	1:L:632:TRP:CE2	1.84	1.03
3:N:97:LEU:CD1	3:O:97:LEU:HD11	1.70	1.03
1:E:309:GLY:O	1:G:653:SER:CB	2.05	1.03
1:G:628:PRO:HD3	1:L:630:ARG:HH21	1.15	1.03
1:H:769:ALA:HB2	3:Q:57:ASN:O	1.55	1.03
3:O:104:LEU:CD2	3:P:104:LEU:CD2	2.36	1.03
1:A:641:THR:HG22	1:A:642:ARG:H	1.19	1.03
3:Q:25:ASP:O	3:Q:69:GLN:HB2	1.54	1.03
1:F:641:THR:HG22	1:F:642:ARG:H	1.22	1.03
3:O:32:LEU:HD23	3:O:55:ARG:HB3	1.34	1.03
3:P:58:LEU:HD12	3:P:58:LEU:H	1.21	1.03
1:G:641:THR:HG22	1:G:642:ARG:H	1.19	1.02
1:B:686:ASP:H	1:D:909:ALA:CA	1.72	1.02
1:B:689:VAL:HA	1:D:906:ALA:HB1	1.09	1.02
3:N:58:LEU:H	3:N:58:LEU:HD12	1.21	1.02
1:A:314:VAL:HG23	2:M:366:LEU:CD1	1.88	1.02
1:B:909:ALA:CB	1:J:544:GLU:HB2	1.88	1.02
1:D:687:SER:HB2	1:J:69:VAL:HG22	1.41	1.02
1:C:641:THR:HG22	1:C:642:ARG:H	1.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:888:HIS:CD2	4:R:30:ARG:HH22	1.77	1.02
1:K:821:ARG:O	3:O:47:GLU:HB2	1.60	1.02
3:N:90:LEU:HG	3:O:90:LEU:CD1	1.89	1.02
3:O:4:GLU:HB3	3:O:6:ARG:HE	1.24	1.02
1:C:89:GLY:CA	1:D:321:GLN:HE22	1.62	1.01
1:J:641:THR:HG22	1:J:642:ARG:H	1.19	1.01
3:N:4:GLU:HB3	3:N:6:ARG:HE	1.24	1.01
3:O:77:GLU:HA	3:O:80:LEU:HB2	1.38	1.01
1:B:859:ALA:HB1	1:D:630:ARG:NH2	1.69	1.01
1:B:896:GLU:OE2	1:J:906:ALA:O	1.77	1.01
1:E:632:TRP:CB	1:G:321:GLN:HG2	1.90	1.01
1:D:687:SER:CB	1:J:69:VAL:HG22	1.91	1.01
1:F:716:VAL:HG13	1:F:723:LYS:HG2	1.42	1.01
1:G:716:VAL:HG13	1:G:723:LYS:HG2	1.43	1.01
1:D:641:THR:HG22	1:D:642:ARG:H	1.19	1.01
1:G:902:THR:HG22	4:R:29:THR:HA	1.43	1.01
1:L:641:THR:HG22	1:L:642:ARG:H	1.22	1.01
3:N:90:LEU:CG	3:O:90:LEU:CD1	2.38	1.01
3:O:90:LEU:CD2	3:P:90:LEU:CD1	2.38	1.00
1:A:716:VAL:HG13	1:A:723:LYS:HG2	1.43	1.00
1:K:716:VAL:HG13	1:K:723:LYS:HG2	1.44	1.00
3:N:90:LEU:CD2	3:O:90:LEU:CG	1.77	1.00
1:H:716:VAL:HG13	1:H:723:LYS:HG2	1.44	1.00
1:B:632:TRP:CB	1:J:321:GLN:HG2	1.92	1.00
1:C:716:VAL:HG13	1:C:723:LYS:HG2	1.42	1.00
3:O:90:LEU:CG	3:P:90:LEU:CD1	2.39	1.00
3:Q:25:ASP:O	3:Q:69:GLN:HB3	1.60	1.00
1:J:817:ARG:H	1:J:817:ARG:HE	1.02	1.00
1:L:852:LEU:HB2	4:R:213:SER:CB	1.92	0.99
2:M:232:LEU:HG	2:M:233:PRO:HD2	1.42	0.99
3:O:90:LEU:HG	3:P:90:LEU:HD13	1.40	0.99
3:O:104:LEU:CG	3:P:104:LEU:CD1	2.35	0.99
1:B:109:ARG:NH2	1:B:512:LEU:HB2	1.78	0.99
1:A:314:VAL:HG23	2:M:366:LEU:HD12	1.39	0.99
1:H:821:ARG:O	3:Q:47:GLU:HB2	1.63	0.99
3:N:83:LEU:HD22	3:P:83:LEU:HD23	1.00	0.99
1:G:687:SER:O	1:L:632:TRP:NE1	1.96	0.99
1:E:632:TRP:HD1	1:G:321:GLN:CG	1.76	0.99
3:O:15:ARG:HH11	3:O:15:ARG:CG	1.76	0.99
3:Q:4:GLU:HB3	3:Q:6:ARG:HE	1.24	0.99
1:J:7:LEU:CD2	4:R:14:GLN:O	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:15:ARG:HH11	3:N:15:ARG:CG	1.76	0.99
3:P:4:GLU:HB3	3:P:6:ARG:HE	1.24	0.99
3:Q:58:LEU:H	3:Q:58:LEU:HD12	1.21	0.99
1:B:716:VAL:HG13	1:B:723:LYS:HG2	1.44	0.99
1:E:109:ARG:NH2	1:E:512:LEU:HB2	1.78	0.99
1:H:109:ARG:NH2	1:H:512:LEU:HB2	1.77	0.99
3:O:104:LEU:HD21	3:P:104:LEU:CD2	1.93	0.99
1:K:658:TYR:O	3:P:26:LYS:NZ	1.96	0.98
3:N:73:MET:C	3:N:74:ILE:HD13	1.84	0.98
3:P:15:ARG:HH11	3:P:15:ARG:HG3	1.28	0.98
1:A:817:ARG:H	1:A:817:ARG:HE	1.03	0.98
1:L:716:VAL:HG13	1:L:723:LYS:HG2	1.42	0.98
3:P:73:MET:C	3:P:74:ILE:HD13	1.84	0.98
1:D:817:ARG:H	1:D:817:ARG:HE	1.03	0.98
1:H:769:ALA:HB3	3:Q:57:ASN:O	1.63	0.98
3:N:104:LEU:CD2	3:O:104:LEU:HD22	1.92	0.98
1:H:702:GLU:OE1	3:Q:19:TRP:CD1	2.16	0.98
3:N:25:ASP:O	3:N:69:GLN:HB3	1.60	0.98
3:P:15:ARG:HH11	3:P:15:ARG:CG	1.76	0.98
1:I:716:VAL:HG13	1:I:723:LYS:HG2	1.42	0.98
1:K:820:GLU:HG2	3:O:46:THR:HG23	1.43	0.98
3:O:73:MET:C	3:O:74:ILE:HD13	1.84	0.98
1:K:109:ARG:NH2	1:K:512:LEU:HB2	1.78	0.97
1:E:716:VAL:HG13	1:E:723:LYS:HG2	1.44	0.97
1:L:473:SER:HB2	1:L:792:CYS:HB2	1.47	0.97
3:N:90:LEU:CG	3:O:90:LEU:HD22	1.88	0.97
3:O:25:ASP:O	3:O:69:GLN:HB3	1.60	0.97
3:P:25:ASP:O	3:P:69:GLN:HB3	1.60	0.97
1:E:630:ARG:HH22	1:G:71:VAL:HG21	0.82	0.97
1:K:473:SER:HB2	1:K:792:CYS:HB2	1.46	0.97
1:D:716:VAL:HG13	1:D:723:LYS:HG2	1.43	0.97
1:E:632:TRP:CD1	1:G:321:GLN:CG	2.47	0.97
1:E:909:ALA:HB2	1:G:544:GLU:CD	1.84	0.97
1:G:628:PRO:HD3	1:L:630:ARG:NH2	1.76	0.97
1:B:81:LYS:NZ	1:J:658:TYR:CE2	2.32	0.97
3:N:15:ARG:HH11	3:N:15:ARG:HG3	1.29	0.97
3:N:104:LEU:CG	3:P:104:LEU:HD21	1.95	0.97
1:F:473:SER:HB2	1:F:792:CYS:HB2	1.46	0.97
1:G:855:ASN:HD21	4:R:178:VAL:CG2	1.71	0.97
3:N:104:LEU:HD22	3:P:104:LEU:CD2	1.94	0.97
1:B:890:PRO:HG2	1:J:909:ALA:C	1.84	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:473:SER:HB2	1:H:792:CYS:HB2	1.47	0.97
3:Q:73:MET:C	3:Q:74:ILE:HD13	1.84	0.97
1:K:817:ARG:HE	1:K:817:ARG:H	0.99	0.97
1:C:473:SER:HB2	1:C:792:CYS:HB2	1.46	0.96
1:J:716:VAL:HG13	1:J:723:LYS:HG2	1.43	0.96
1:A:473:SER:HB2	1:A:792:CYS:HB2	1.47	0.96
1:E:653:SER:CB	1:G:78:TYR:HE2	1.78	0.96
1:H:493:ASN:HD21	3:Q:45:ARG:HH12	1.13	0.96
1:I:473:SER:HB2	1:I:792:CYS:HB2	1.46	0.96
1:J:307:ASN:HD21	1:J:333:THR:H	1.13	0.96
1:B:473:SER:HB2	1:B:792:CYS:HB2	1.47	0.96
1:H:808:PRO:HG2	1:H:813:ARG:HD2	1.48	0.96
2:M:66:ILE:HA	2:M:469:LEU:HD13	1.47	0.96
3:O:90:LEU:HD21	3:P:90:LEU:HG	1.46	0.96
1:B:808:PRO:HG2	1:B:813:ARG:HD2	1.48	0.96
3:N:11:TYR:CB	3:O:11:TYR:HB3	1.94	0.96
3:N:97:LEU:HD13	3:P:97:LEU:CG	1.93	0.96
1:G:857:ALA:C	4:R:12:THR:HG22	1.84	0.96
3:N:83:LEU:HD23	3:O:83:LEU:HD22	0.97	0.96
3:Q:15:ARG:CG	3:Q:15:ARG:HH11	1.76	0.96
1:A:314:VAL:HG22	2:M:366:LEU:HD11	1.46	0.96
1:G:307:ASN:HD21	1:G:333:THR:H	1.13	0.96
1:G:473:SER:HB2	1:G:792:CYS:HB2	1.47	0.96
1:H:817:ARG:HE	1:H:817:ARG:H	0.99	0.96
1:K:458:PRO:CG	3:P:65:ARG:O	2.12	0.95
2:M:127:ASN:HB2	2:M:164:PHE:CD1	2.01	0.95
3:P:25:ASP:CA	3:P:38:PRO:HB3	1.96	0.95
1:G:132:ASN:HB3	1:G:206:VAL:HG23	1.48	0.95
3:N:24:GLN:NE2	3:O:8:TYR:HD1	1.59	0.95
1:E:909:ALA:HB3	1:G:544:GLU:CG	1.82	0.95
1:G:109:ARG:NH2	1:G:512:LEU:HB2	1.82	0.95
3:Q:25:ASP:CA	3:Q:38:PRO:HB3	1.96	0.95
1:J:109:ARG:NH2	1:J:512:LEU:HB2	1.82	0.95
1:J:804:LEU:HD11	1:K:222:PRO:HB3	1.49	0.95
1:K:804:LEU:HD11	1:L:222:PRO:HB3	1.49	0.95
1:B:309:GLY:CA	1:J:654:PRO:CG	2.43	0.95
1:E:808:PRO:HG2	1:E:813:ARG:HD2	1.48	0.95
1:K:564:ARG:CG	3:P:31:MET:O	2.14	0.95
3:O:15:ARG:HH11	3:O:15:ARG:HG3	1.28	0.95
3:O:90:LEU:CG	3:P:90:LEU:HD22	1.78	0.95
1:A:109:ARG:NH2	1:A:512:LEU:HB2	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:908:ASN:C	1:J:83:ARG:NH1	2.18	0.95
1:D:804:LEU:HD11	1:E:222:PRO:HB3	1.49	0.95
3:N:90:LEU:HD22	3:O:90:LEU:HD23	1.35	0.95
1:B:686:ASP:H	1:D:909:ALA:C	1.69	0.94
1:E:473:SER:HB2	1:E:792:CYS:HB2	1.46	0.94
1:L:307:ASN:HD21	1:L:333:THR:H	1.13	0.94
3:N:8:TYR:HD1	3:P:24:GLN:NE2	1.61	0.94
1:E:87:ALA:CB	1:L:686:ASP:OD1	2.14	0.94
1:E:817:ARG:HE	1:E:817:ARG:H	0.99	0.94
3:N:74:ILE:HD12	3:N:78:ASP:OD2	1.67	0.94
1:E:909:ALA:N	1:G:83:ARG:HH11	1.65	0.94
1:L:817:ARG:H	1:L:817:ARG:HE	1.00	0.94
3:O:74:ILE:HD12	3:O:78:ASP:OD2	1.68	0.94
1:E:908:ASN:O	1:G:83:ARG:NH1	1.97	0.94
1:K:658:TYR:OH	3:P:39:PRO:CB	2.16	0.94
3:N:25:ASP:CA	3:N:38:PRO:HB3	1.96	0.94
1:J:473:SER:HB2	1:J:792:CYS:HB2	1.47	0.94
1:B:817:ARG:H	1:B:817:ARG:HE	0.99	0.94
3:Q:15:ARG:HH11	3:Q:15:ARG:HG3	1.28	0.94
1:G:817:ARG:H	1:G:817:ARG:HE	1.02	0.94
1:G:855:ASN:HD22	4:R:178:VAL:HG23	1.17	0.94
1:D:109:ARG:NH2	1:D:512:LEU:HB2	1.82	0.94
1:K:808:PRO:HG2	1:K:813:ARG:HD2	1.48	0.94
3:O:25:ASP:CA	3:O:38:PRO:HB3	1.96	0.94
3:P:35:VAL:N	3:P:64:ARG:HD3	1.83	0.94
3:P:74:ILE:HD12	3:P:78:ASP:OD2	1.67	0.94
1:A:307:ASN:HD21	1:A:333:THR:H	1.13	0.94
1:E:909:ALA:CB	1:G:544:GLU:HG3	1.97	0.94
2:M:169:VAL:HG11	2:M:247:LEU:HD21	1.50	0.94
1:B:804:LEU:HD11	1:C:222:PRO:HB3	1.49	0.94
1:H:820:GLU:CD	3:Q:46:THR:HG21	1.88	0.94
3:N:61:GLU:OE1	3:N:70:THR:HG21	1.68	0.94
3:Q:35:VAL:N	3:Q:64:ARG:HD3	1.83	0.94
1:D:473:SER:HB2	1:D:792:CYS:HB2	1.47	0.93
1:I:109:ARG:NH2	1:I:512:LEU:HB2	1.83	0.93
3:O:35:VAL:N	3:O:64:ARG:HD3	1.83	0.93
3:Q:61:GLU:OE1	3:Q:70:THR:HG21	1.68	0.93
1:A:804:LEU:HD11	1:B:222:PRO:HB3	1.49	0.93
1:F:109:ARG:NH2	1:F:512:LEU:HB2	1.83	0.93
2:M:214:LEU:HG	2:M:310:ASN:HD21	1.30	0.93
3:N:83:LEU:HD21	3:P:83:LEU:CD2	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:77:GLU:O	3:O:81:GLY:N	2.02	0.93
1:C:109:ARG:NH2	1:C:512:LEU:HB2	1.83	0.93
1:C:817:ARG:HE	1:C:817:ARG:H	1.00	0.93
1:H:804:LEU:HD11	1:I:222:PRO:HB3	1.49	0.93
1:L:852:LEU:HB2	4:R:213:SER:OG	1.69	0.93
3:N:35:VAL:N	3:N:64:ARG:HD3	1.83	0.93
3:O:90:LEU:CD2	3:P:90:LEU:HD23	1.45	0.93
1:B:684:GLN:O	1:D:909:ALA:CB	2.15	0.93
1:K:458:PRO:CG	3:P:66:PRO:HA	1.97	0.93
1:C:307:ASN:HD21	1:C:333:THR:H	1.13	0.93
1:D:132:ASN:HB3	1:D:206:VAL:HG23	1.48	0.93
1:D:307:ASN:HD21	1:D:333:THR:H	1.13	0.93
3:N:77:GLU:O	3:N:81:GLY:N	2.02	0.93
3:P:61:GLU:OE1	3:P:70:THR:HG21	1.68	0.93
3:Q:4:GLU:HB3	3:Q:6:ARG:NE	1.84	0.93
1:A:132:ASN:HB3	1:A:206:VAL:HG23	1.48	0.93
1:F:132:ASN:HB3	1:F:206:VAL:HG23	1.51	0.93
3:O:61:GLU:OE1	3:O:70:THR:HG21	1.68	0.93
1:F:307:ASN:HD21	1:F:333:THR:H	1.13	0.93
3:N:17:PRO:HG3	3:N:22:SER:HG	1.32	0.93
1:H:9:GLN:NE2	4:R:31:MET:CB	2.32	0.93
1:K:493:ASN:HD21	3:O:45:ARG:NH1	1.66	0.93
1:L:109:ARG:NH2	1:L:512:LEU:HB2	1.83	0.93
3:N:4:GLU:HB3	3:N:6:ARG:NE	1.84	0.92
1:D:794:ALA:HB1	1:D:795:PRO:HD2	1.51	0.92
1:I:307:ASN:HD21	1:I:333:THR:H	1.13	0.92
3:N:104:LEU:HD22	3:P:104:LEU:HD22	1.49	0.92
1:G:168:ASP:HB2	1:G:174:VAL:HB	1.52	0.92
3:N:93:SER:HB2	3:O:94:ASN:OD1	1.68	0.92
3:P:77:GLU:O	3:P:81:GLY:N	2.02	0.92
1:E:909:ALA:CB	1:G:544:GLU:CB	2.03	0.92
3:N:40:ASN:O	3:N:41:SER:HB2	1.69	0.92
3:N:90:LEU:HD21	3:P:90:LEU:CG	1.93	0.92
3:Q:34:GLY:C	3:Q:64:ARG:HD3	1.89	0.92
1:A:906:ALA:O	2:M:100:ALA:HA	1.69	0.92
1:H:132:ASN:HB3	1:H:206:VAL:HG23	1.51	0.92
3:O:65:ARG:HB3	3:O:66:PRO:HD3	1.50	0.92
3:O:86:ARG:NE	3:P:87:MET:HG2	1.82	0.92
3:Q:77:GLU:O	3:Q:81:GLY:N	2.02	0.92
3:O:34:GLY:C	3:O:64:ARG:HD3	1.89	0.92
1:G:804:LEU:HD11	1:H:222:PRO:HB3	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:9:GLN:HE21	4:R:31:MET:HE3	1.29	0.92
1:B:653:SER:CA	1:J:78:TYR:HE2	1.82	0.92
3:N:65:ARG:HB3	3:N:66:PRO:HD3	1.50	0.92
3:Q:65:ARG:HB3	3:Q:66:PRO:HD3	1.50	0.92
1:B:653:SER:HB3	1:J:77:GLN:CD	1.90	0.92
1:F:817:ARG:HE	1:F:817:ARG:H	1.00	0.92
1:J:132:ASN:HB3	1:J:206:VAL:HG23	1.48	0.92
3:N:94:ASN:OD1	3:P:93:SER:CB	2.17	0.92
3:Q:31:MET:HB3	3:Q:32:LEU:HB3	1.51	0.92
1:E:321:GLN:OE1	1:G:614:MET:HE3	1.68	0.91
1:H:680:LYS:HD2	3:Q:19:TRP:CD2	2.05	0.91
3:N:104:LEU:HD21	3:O:104:LEU:CB	2.00	0.91
3:O:97:LEU:CD1	3:P:97:LEU:HD11	1.90	0.91
1:D:136:ARG:HB3	1:D:136:ARG:NH1	1.85	0.91
1:E:136:ARG:HB3	1:E:136:ARG:NH1	1.85	0.91
1:G:851:LEU:HB3	4:R:178:VAL:HG21	1.52	0.91
1:J:794:ALA:HB1	1:J:795:PRO:HD2	1.52	0.91
1:C:132:ASN:HB3	1:C:206:VAL:HG23	1.51	0.91
1:C:168:ASP:HB2	1:C:174:VAL:HB	1.53	0.91
1:D:687:SER:CB	1:J:69:VAL:CG2	2.46	0.91
1:I:132:ASN:HB3	1:I:206:VAL:HG23	1.50	0.91
1:I:136:ARG:HB3	1:I:136:ARG:NH1	1.85	0.91
3:P:34:GLY:C	3:P:64:ARG:HD3	1.89	0.91
1:B:81:LYS:HE2	1:J:658:TYR:CE2	2.04	0.91
1:F:168:ASP:HB2	1:F:174:VAL:HB	1.52	0.91
3:P:4:GLU:HB3	3:P:6:ARG:NE	1.84	0.91
1:G:794:ALA:HB1	1:G:795:PRO:HD2	1.51	0.91
1:H:136:ARG:HB3	1:H:136:ARG:NH1	1.85	0.91
1:K:769:ALA:CB	3:O:57:ASN:O	2.18	0.91
1:K:820:GLU:CD	3:O:46:THR:HG21	1.91	0.91
3:N:34:GLY:C	3:N:64:ARG:HD3	1.89	0.91
3:P:40:ASN:O	3:P:41:SER:HB2	1.69	0.91
3:P:65:ARG:HB3	3:P:66:PRO:HD3	1.50	0.91
1:L:132:ASN:HB3	1:L:206:VAL:HG23	1.51	0.91
3:Q:40:ASN:O	3:Q:41:SER:HB2	1.69	0.91
3:Q:74:ILE:HD12	3:Q:78:ASP:OD2	1.68	0.91
1:A:168:ASP:HB2	1:A:174:VAL:HB	1.52	0.91
1:A:328:LEU:HD21	2:M:102:ASN:HA	1.47	0.91
1:G:627:ILE:N	1:L:909:ALA:O	2.04	0.91
1:J:168:ASP:HB2	1:J:174:VAL:HB	1.52	0.91
3:N:11:TYR:HB3	3:P:11:TYR:HB2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:40:ASN:O	3:O:41:SER:HB2	1.69	0.91
1:G:632:TRP:HE1	4:R:29:THR:N	1.69	0.91
1:H:307:ASN:HD21	1:H:333:THR:H	1.18	0.91
3:O:4:GLU:HB3	3:O:6:ARG:NE	1.84	0.91
3:O:31:MET:HB3	3:O:32:LEU:HB3	1.51	0.91
3:O:86:ARG:NE	3:P:87:MET:CG	2.34	0.91
1:B:891:HIS:HB3	1:J:630:ARG:HH22	1.31	0.91
1:B:909:ALA:CA	1:J:83:ARG:HH11	1.63	0.91
1:J:552:ASN:HD21	1:J:564:ARG:HB2	1.36	0.91
3:O:104:LEU:CD1	3:P:104:LEU:CD1	2.42	0.91
1:B:891:HIS:H	1:J:909:ALA:C	1.72	0.90
1:F:136:ARG:HB3	1:F:136:ARG:NH1	1.85	0.90
1:I:817:ARG:HE	1:I:817:ARG:H	1.00	0.90
3:O:104:LEU:HD11	3:P:104:LEU:HD11	0.94	0.90
1:B:890:PRO:CB	1:J:910:THR:N	2.34	0.90
1:H:9:GLN:CD	4:R:31:MET:CE	2.34	0.90
1:J:136:ARG:HB3	1:J:136:ARG:NH1	1.85	0.90
1:K:136:ARG:HB3	1:K:136:ARG:NH1	1.85	0.90
3:N:11:TYR:HB2	3:O:11:TYR:HB3	1.53	0.90
1:E:168:ASP:HB2	1:E:174:VAL:HB	1.54	0.90
1:E:309:GLY:HA3	1:G:654:PRO:HD2	1.48	0.90
1:G:808:PRO:HG2	1:G:813:ARG:HD2	1.53	0.90
1:K:458:PRO:HG3	3:P:66:PRO:HA	1.52	0.90
3:N:31:MET:HB3	3:N:32:LEU:HB3	1.51	0.90
3:P:40:ASN:HD22	3:P:40:ASN:C	1.75	0.90
1:B:909:ALA:HA	1:J:83:ARG:NH1	1.40	0.90
1:E:804:LEU:HD11	1:F:222:PRO:HB3	1.49	0.90
1:G:136:ARG:HB3	1:G:136:ARG:NH1	1.85	0.90
1:G:396:VAL:HG13	1:G:404:GLN:O	1.72	0.90
1:I:396:VAL:HG13	1:I:404:GLN:O	1.71	0.90
1:H:168:ASP:HB2	1:H:174:VAL:HB	1.54	0.90
1:L:168:ASP:HB2	1:L:174:VAL:HB	1.53	0.90
1:E:396:VAL:HG13	1:E:404:GLN:O	1.71	0.90
1:F:396:VAL:HG13	1:F:404:GLN:O	1.71	0.90
1:J:396:VAL:HG13	1:J:404:GLN:O	1.72	0.90
2:M:164:PHE:HB3	2:M:427:ILE:HD11	1.53	0.90
1:A:222:PRO:HB3	1:C:804:LEU:HD11	1.54	0.90
1:B:132:ASN:HB3	1:B:206:VAL:HG23	1.52	0.90
1:L:396:VAL:HG13	1:L:404:GLN:O	1.71	0.90
3:N:40:ASN:HD22	3:N:40:ASN:C	1.75	0.90
1:E:60:ARG:HG2	1:J:60:ARG:HA	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:640:LEU:HD12	1:I:877:VAL:HG22	1.54	0.90
1:L:136:ARG:HB3	1:L:136:ARG:NH1	1.85	0.90
1:A:552:ASN:HD21	1:A:564:ARG:HB2	1.36	0.90
1:B:653:SER:CB	1:J:77:GLN:CD	2.39	0.90
1:A:794:ALA:HB1	1:A:795:PRO:HD2	1.52	0.90
1:A:808:PRO:HG2	1:A:813:ARG:HD2	1.53	0.90
1:C:396:VAL:HG13	1:C:404:GLN:O	1.71	0.90
1:D:396:VAL:HG13	1:D:404:GLN:O	1.72	0.90
1:E:132:ASN:HB3	1:E:206:VAL:HG23	1.52	0.90
3:P:31:MET:HB3	3:P:32:LEU:HB3	1.51	0.90
3:Q:75:LEU:HG	3:Q:76:VAL:H	0.73	0.90
1:B:396:VAL:HG13	1:B:404:GLN:O	1.71	0.89
1:D:168:ASP:HB2	1:D:174:VAL:HB	1.52	0.89
1:H:640:LEU:HD12	1:H:877:VAL:HG22	1.53	0.89
3:N:97:LEU:CD1	3:P:97:LEU:CD2	2.47	0.89
1:C:136:ARG:HB3	1:C:136:ARG:NH1	1.85	0.89
1:E:794:ALA:HB1	1:E:795:PRO:HD2	1.53	0.89
1:F:640:LEU:HD12	1:F:877:VAL:HG22	1.54	0.89
1:K:307:ASN:HD21	1:K:333:THR:H	1.18	0.89
1:C:640:LEU:HD12	1:C:877:VAL:HG22	1.54	0.89
1:D:222:PRO:HB3	1:F:804:LEU:HD11	1.54	0.89
1:H:794:ALA:HB1	1:H:795:PRO:HD2	1.53	0.89
1:K:271:VAL:HB	1:K:272:PRO:HD3	1.55	0.89
1:L:640:LEU:HD12	1:L:877:VAL:HG22	1.54	0.89
3:O:79:SER:O	3:O:83:LEU:HG	1.73	0.89
3:P:79:SER:O	3:P:83:LEU:HG	1.73	0.89
1:A:136:ARG:HB3	1:A:136:ARG:NH1	1.85	0.89
1:B:136:ARG:HB3	1:B:136:ARG:NH1	1.85	0.89
1:B:686:ASP:OD1	1:D:632:TRP:HZ3	1.37	0.89
1:H:9:GLN:NE2	4:R:31:MET:CG	2.30	0.89
1:L:852:LEU:HB2	4:R:213:SER:HB3	1.53	0.89
3:N:24:GLN:NE2	3:O:8:TYR:CE1	2.40	0.89
3:N:83:LEU:HD21	3:O:83:LEU:HD21	0.91	0.89
1:B:81:LYS:CE	1:J:658:TYR:CE2	2.56	0.89
1:I:271:VAL:HB	1:I:272:PRO:HD3	1.55	0.89
1:J:808:PRO:HG2	1:J:813:ARG:HD2	1.53	0.89
1:K:132:ASN:HB3	1:K:206:VAL:HG23	1.51	0.89
1:E:271:VAL:HB	1:E:272:PRO:HD3	1.55	0.89
1:K:640:LEU:HD12	1:K:877:VAL:HG22	1.53	0.89
2:M:236:ALA:HB2	2:M:263:SER:HA	1.52	0.89
3:N:15:ARG:O	3:N:15:ARG:HD3	1.73	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:79:SER:O	3:N:83:LEU:HG	1.73	0.89
1:D:808:PRO:HG2	1:D:813:ARG:HD2	1.53	0.89
3:Q:40:ASN:C	3:Q:40:ASN:HD22	1.75	0.89
1:J:640:LEU:HD12	1:J:877:VAL:HG22	1.55	0.89
1:L:271:VAL:HB	1:L:272:PRO:HD3	1.54	0.89
3:O:15:ARG:O	3:O:15:ARG:HD3	1.73	0.89
3:P:58:LEU:HD12	3:P:58:LEU:N	1.89	0.89
1:B:307:ASN:HD21	1:B:333:THR:H	1.18	0.88
1:G:552:ASN:HD21	1:G:564:ARG:HB2	1.36	0.88
1:H:396:VAL:HG13	1:H:404:GLN:O	1.71	0.88
1:G:640:LEU:HD12	1:G:877:VAL:HG22	1.55	0.88
1:K:396:VAL:HG13	1:K:404:GLN:O	1.71	0.88
1:E:909:ALA:N	1:G:544:GLU:OE1	2.06	0.88
3:O:40:ASN:C	3:O:40:ASN:HD22	1.75	0.88
3:P:15:ARG:O	3:P:15:ARG:HD3	1.73	0.88
3:P:34:GLY:HA3	3:P:64:ARG:CD	2.04	0.88
3:Q:76:VAL:HG23	3:Q:77:GLU:OE2	1.74	0.88
1:D:552:ASN:HD21	1:D:564:ARG:HB2	1.36	0.88
3:P:76:VAL:HG23	3:P:77:GLU:OE2	1.74	0.88
1:A:640:LEU:HD12	1:A:877:VAL:HG22	1.55	0.88
1:C:271:VAL:HB	1:C:272:PRO:HD3	1.54	0.88
1:I:168:ASP:HB2	1:I:174:VAL:HB	1.53	0.88
3:O:58:LEU:HD12	3:O:58:LEU:N	1.89	0.88
1:B:640:LEU:HD12	1:B:877:VAL:HG22	1.53	0.88
1:K:493:ASN:HD21	3:O:45:ARG:HH12	0.89	0.88
3:P:34:GLY:HA3	3:P:64:ARG:HD3	1.54	0.88
3:Q:32:LEU:CD2	3:Q:55:ARG:HB3	2.04	0.88
3:Q:34:GLY:HA3	3:Q:64:ARG:CD	2.04	0.88
3:Q:34:GLY:HA3	3:Q:64:ARG:HD3	1.54	0.88
1:J:222:PRO:HB3	1:L:804:LEU:HD11	1.54	0.88
3:N:76:VAL:HG23	3:N:77:GLU:OE2	1.74	0.88
3:N:86:ARG:NE	3:O:87:MET:CG	2.36	0.88
1:A:396:VAL:HG13	1:A:404:GLN:O	1.72	0.88
1:B:689:VAL:CG2	1:D:906:ALA:CB	2.40	0.88
1:B:794:ALA:HB1	1:B:795:PRO:HD2	1.53	0.88
1:G:222:PRO:HB3	1:I:804:LEU:HD11	1.54	0.88
1:G:857:ALA:O	4:R:12:THR:CG2	2.22	0.88
1:K:794:ALA:HB1	1:K:795:PRO:HD2	1.53	0.88
1:B:168:ASP:HB2	1:B:174:VAL:HB	1.54	0.88
1:K:552:ASN:HD21	1:K:564:ARG:HB2	1.39	0.88
3:N:55:ARG:HG3	3:N:56:ASP:OD1	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:32:LEU:CD2	3:P:55:ARG:HB3	2.04	0.88
1:F:808:PRO:HG2	1:F:813:ARG:HD2	1.55	0.88
3:Q:14:ALA:O	3:Q:15:ARG:HB3	1.73	0.88
1:A:328:LEU:HD22	2:M:102:ASN:HA	1.55	0.87
1:B:271:VAL:HB	1:B:272:PRO:HD3	1.55	0.87
1:G:271:VAL:HB	1:G:272:PRO:HD3	1.55	0.87
1:G:863:THR:OG1	1:L:909:ALA:HB3	1.74	0.87
1:K:168:ASP:HB2	1:K:174:VAL:HB	1.54	0.87
3:O:34:GLY:HA3	3:O:64:ARG:HD3	1.54	0.87
1:K:766:PRO:HD3	1:K:809:HIS:HE2	1.39	0.87
1:L:808:PRO:HG2	1:L:813:ARG:HD2	1.55	0.87
3:O:32:LEU:CD2	3:O:55:ARG:HB3	2.04	0.87
4:R:53:ARG:HB2	4:R:53:ARG:HH11	1.39	0.87
1:E:640:LEU:HD12	1:E:877:VAL:HG22	1.53	0.87
1:J:271:VAL:HB	1:J:272:PRO:HD3	1.55	0.87
3:O:90:LEU:HD21	3:P:90:LEU:CD1	1.98	0.87
1:B:909:ALA:HB3	1:J:544:GLU:CB	2.04	0.87
1:H:271:VAL:HB	1:H:272:PRO:HD3	1.55	0.87
3:N:104:LEU:CD2	3:O:104:LEU:CD2	2.52	0.87
1:G:426:LEU:HD23	1:I:426:LEU:HD11	1.56	0.87
1:J:426:LEU:HD23	1:L:426:LEU:HD11	1.56	0.87
1:K:493:ASN:ND2	3:O:45:ARG:HH12	1.71	0.87
3:Q:58:LEU:HD12	3:Q:58:LEU:N	1.89	0.87
3:Q:79:SER:O	3:Q:83:LEU:HG	1.73	0.87
1:B:685:PHE:C	1:D:909:ALA:HB3	1.95	0.87
3:O:104:LEU:HD22	3:P:104:LEU:CD2	2.00	0.87
3:P:14:ALA:O	3:P:15:ARG:HB3	1.73	0.87
3:Q:15:ARG:O	3:Q:15:ARG:HD3	1.73	0.87
3:N:104:LEU:CD1	3:P:104:LEU:CD1	2.52	0.87
3:O:76:VAL:HG23	3:O:77:GLU:OE2	1.74	0.87
3:P:55:ARG:HG3	3:P:56:ASP:OD1	1.74	0.87
3:P:76:VAL:O	3:P:80:LEU:HD12	1.75	0.87
3:Q:67:GLU:HB3	3:Q:68:ASP:HB3	1.57	0.87
1:A:426:LEU:HD23	1:C:426:LEU:HD11	1.56	0.87
1:B:552:ASN:HD21	1:B:564:ARG:HB2	1.39	0.87
1:D:640:LEU:HD12	1:D:877:VAL:HG22	1.55	0.87
1:I:552:ASN:HD21	1:I:564:ARG:HB2	1.40	0.87
1:L:552:ASN:HD21	1:L:564:ARG:HB2	1.40	0.87
3:N:8:TYR:HE1	3:P:24:GLN:NE2	1.64	0.87
3:N:32:LEU:CD2	3:N:55:ARG:HB3	2.04	0.87
3:N:58:LEU:HD12	3:N:58:LEU:N	1.88	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:97:LEU:CG	3:P:97:LEU:CD2	1.92	0.87
1:B:891:HIS:HB2	1:J:630:ARG:NH2	1.90	0.86
1:F:766:PRO:HD3	1:F:809:HIS:HE2	1.40	0.86
3:P:9:VAL:HG22	3:P:11:TYR:CZ	2.10	0.86
3:Q:9:VAL:HG22	3:Q:11:TYR:CZ	2.10	0.86
1:A:314:VAL:HG21	2:M:366:LEU:HD12	1.45	0.86
1:L:852:LEU:CB	4:R:213:SER:HB3	2.04	0.86
3:N:34:GLY:HA3	3:N:64:ARG:CD	2.04	0.86
3:N:76:VAL:O	3:N:80:LEU:HD12	1.75	0.86
3:O:34:GLY:HA3	3:O:64:ARG:CD	2.04	0.86
3:O:76:VAL:O	3:O:80:LEU:HD12	1.75	0.86
1:B:632:TRP:CB	1:J:321:GLN:CG	2.51	0.86
1:C:552:ASN:HD21	1:C:564:ARG:HB2	1.40	0.86
1:F:271:VAL:HB	1:F:272:PRO:HD3	1.55	0.86
3:N:67:GLU:HB3	3:N:68:ASP:HB3	1.57	0.86
3:Q:55:ARG:HG3	3:Q:56:ASP:OD1	1.74	0.86
1:E:766:PRO:HD3	1:E:809:HIS:HE2	1.39	0.86
1:F:552:ASN:HD21	1:F:564:ARG:HB2	1.40	0.86
3:O:9:VAL:HG22	3:O:11:TYR:CZ	2.10	0.86
1:A:271:VAL:HB	1:A:272:PRO:HD3	1.55	0.86
3:N:14:ALA:O	3:N:15:ARG:HB3	1.73	0.86
3:Q:76:VAL:O	3:Q:80:LEU:HD12	1.75	0.86
1:B:766:PRO:HD3	1:B:809:HIS:HE2	1.40	0.86
1:G:626:PRO:C	1:L:909:ALA:O	2.14	0.86
3:O:55:ARG:HG3	3:O:56:ASP:OD1	1.74	0.86
1:G:792:CYS:O	1:G:793:ARG:HG3	1.76	0.86
1:H:766:PRO:HD3	1:H:809:HIS:HE2	1.39	0.86
1:H:767:ASN:HD21	3:Q:58:LEU:HB3	1.41	0.86
2:M:159:LEU:HD12	2:M:160:PRO:HD2	1.55	0.86
3:N:90:LEU:CG	3:P:90:LEU:CD2	2.11	0.86
3:O:16:LEU:CD1	3:O:17:PRO:HD2	2.06	0.86
1:E:60:ARG:HG3	1:J:60:ARG:HA	1.56	0.86
1:E:307:ASN:HD21	1:E:333:THR:H	1.18	0.86
1:E:909:ALA:HB2	1:G:544:GLU:HG3	1.55	0.86
1:K:658:TYR:CE1	3:P:39:PRO:CD	2.48	0.86
3:N:23:VAL:HG21	3:N:26:LYS:HG2	1.58	0.86
3:O:14:ALA:O	3:O:15:ARG:HB3	1.73	0.86
3:O:23:VAL:HG21	3:O:26:LYS:HG2	1.58	0.86
3:P:16:LEU:CD1	3:P:17:PRO:HD2	2.06	0.86
3:Q:16:LEU:CD1	3:Q:17:PRO:HD2	2.06	0.86
1:A:138:ALA:HA	1:A:278:LYS:HD3	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:808:PRO:HG2	1:C:813:ARG:HD2	1.55	0.86
1:G:900:LEU:HD13	4:R:31:MET:HA	1.58	0.86
1:J:766:PRO:HD3	1:J:809:HIS:HE2	1.41	0.86
2:M:139:VAL:HG21	2:M:197:VAL:HG11	1.58	0.86
3:N:9:VAL:HG22	3:N:11:TYR:CZ	2.10	0.86
3:N:97:LEU:HD11	3:P:97:LEU:CD1	2.06	0.86
1:C:766:PRO:HD3	1:C:809:HIS:HE2	1.40	0.85
1:K:658:TYR:OH	3:P:39:PRO:HB3	1.73	0.85
2:M:277:ASP:HB3	2:M:285:LYS:HE2	1.56	0.85
1:D:271:VAL:HB	1:D:272:PRO:HD3	1.55	0.85
1:D:426:LEU:HD23	1:F:426:LEU:HD11	1.56	0.85
1:E:630:ARG:NH1	1:G:83:ARG:HH21	1.73	0.85
1:I:808:PRO:HG2	1:I:813:ARG:HD2	1.55	0.85
3:O:67:GLU:HB3	3:O:68:ASP:HB3	1.57	0.85
1:I:476:ILE:HD12	1:I:480:VAL:HG21	1.59	0.85
1:J:138:ALA:HA	1:J:278:LYS:HD3	1.58	0.85
3:N:34:GLY:HA3	3:N:64:ARG:HD3	1.54	0.85
3:O:75:LEU:HG	3:O:76:VAL:H	0.73	0.85
1:E:552:ASN:HD21	1:E:564:ARG:HB2	1.39	0.85
1:I:766:PRO:HD3	1:I:809:HIS:HE2	1.40	0.85
3:O:39:PRO:O	3:O:40:ASN:CG	2.15	0.85
3:O:90:LEU:CD1	3:P:90:LEU:HD21	2.06	0.85
3:P:67:GLU:HB3	3:P:68:ASP:HB3	1.57	0.85
1:D:792:CYS:O	1:D:793:ARG:HG3	1.76	0.85
1:G:766:PRO:HD3	1:G:809:HIS:HE2	1.41	0.85
1:H:820:GLU:HG2	3:Q:46:THR:HG21	1.24	0.85
3:N:97:LEU:CD1	3:P:97:LEU:HD21	2.05	0.85
3:Q:39:PRO:O	3:Q:40:ASN:CG	2.15	0.85
1:J:476:ILE:HD12	1:J:480:VAL:HG21	1.59	0.85
3:N:104:LEU:HD11	3:P:104:LEU:CD1	2.02	0.85
3:P:75:LEU:HG	3:P:76:VAL:H	0.73	0.85
3:Q:23:VAL:HG21	3:Q:26:LYS:HG2	1.58	0.85
1:C:89:GLY:HA2	1:D:321:GLN:HE22	1.04	0.85
1:H:73:ARG:NH2	1:L:83:ARG:HH22	1.74	0.85
1:A:792:CYS:O	1:A:793:ARG:HG3	1.76	0.85
1:F:476:ILE:HD12	1:F:480:VAL:HG21	1.59	0.85
1:A:476:ILE:HD12	1:A:480:VAL:HG21	1.59	0.85
1:A:766:PRO:HD3	1:A:809:HIS:HE2	1.41	0.85
1:D:146:THR:H	1:E:412:ASN:HD22	1.25	0.85
1:H:552:ASN:HD21	1:H:564:ARG:HB2	1.39	0.85
1:B:309:GLY:HA3	1:J:654:PRO:CD	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:396:VAL:HG12	1:D:403:TRP:HD1	1.42	0.85
1:H:9:GLN:HE22	4:R:31:MET:CB	1.88	0.85
1:A:263:PRO:HD3	1:C:813:ARG:NH2	1.92	0.84
1:B:891:HIS:H	1:J:910:THR:N	1.75	0.84
1:D:138:ALA:HA	1:D:278:LYS:HD3	1.58	0.84
1:D:484:THR:HG23	1:E:514:ASN:HB3	1.59	0.84
1:E:600:THR:HG21	4:R:189:PRO:HB3	1.59	0.84
1:G:476:ILE:HD12	1:G:480:VAL:HG21	1.59	0.84
1:J:792:CYS:O	1:J:793:ARG:HG3	1.76	0.84
3:O:11:TYR:CB	3:P:11:TYR:HB3	2.08	0.84
1:B:653:SER:CA	1:J:78:TYR:CE2	2.57	0.84
1:F:792:CYS:O	1:F:793:ARG:HG3	1.77	0.84
1:G:138:ALA:HA	1:G:278:LYS:HD3	1.58	0.84
3:N:16:LEU:CD1	3:N:17:PRO:HD2	2.06	0.84
1:A:146:THR:H	1:B:412:ASN:HD22	1.25	0.84
4:R:14:GLN:HE22	4:R:16:GLN:HB2	1.43	0.84
1:L:395:GLU:O	1:L:406:VAL:HB	1.78	0.84
2:M:159:LEU:HD11	2:M:172:LEU:HB3	1.59	0.84
1:C:395:GLU:O	1:C:406:VAL:HB	1.78	0.84
1:D:688:SER:HB3	1:J:67:ARG:O	1.78	0.84
1:F:395:GLU:O	1:F:406:VAL:HB	1.78	0.84
1:G:905:SER:HB3	4:R:27:TYR:O	1.78	0.84
3:N:39:PRO:O	3:N:40:ASN:CG	2.15	0.84
3:N:90:LEU:CD2	3:P:90:LEU:HD22	1.33	0.84
1:A:484:THR:HG23	1:B:514:ASN:HB3	1.59	0.84
1:K:458:PRO:HG2	3:P:65:ARG:O	1.75	0.84
1:L:766:PRO:HD3	1:L:809:HIS:HE2	1.40	0.84
3:P:39:PRO:O	3:P:40:ASN:CG	2.15	0.84
1:A:396:VAL:HG12	1:A:403:TRP:HD1	1.42	0.84
3:N:23:VAL:CG2	3:N:26:LYS:HG2	2.08	0.84
3:O:23:VAL:CG2	3:O:26:LYS:HG2	2.08	0.84
1:B:689:VAL:CA	1:D:906:ALA:HB3	1.91	0.83
1:D:476:ILE:HD12	1:D:480:VAL:HG21	1.59	0.83
1:I:792:CYS:O	1:I:793:ARG:HG3	1.77	0.83
1:L:792:CYS:O	1:L:793:ARG:HG3	1.77	0.83
3:N:104:LEU:HD22	3:O:104:LEU:CD2	2.08	0.83
3:P:23:VAL:HG21	3:P:26:LYS:HG2	1.58	0.83
3:Q:73:MET:O	3:Q:74:ILE:HD13	1.78	0.83
1:A:514:ASN:HB3	1:C:484:THR:HG23	1.60	0.83
1:B:76:THR:OG1	1:J:658:TYR:HE1	1.60	0.83
1:H:813:ARG:NH2	1:I:263:PRO:HD3	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:792:CYS:O	1:C:793:ARG:HG3	1.77	0.83
3:N:73:MET:O	3:N:74:ILE:HD13	1.78	0.83
1:B:689:VAL:CG1	1:D:906:ALA:HB3	2.09	0.83
1:G:813:ARG:HH12	1:H:261:LEU:HB2	1.43	0.83
1:J:263:PRO:HD3	1:L:813:ARG:NH2	1.92	0.83
2:M:381:LEU:HD11	2:M:428:SER:HB2	1.59	0.83
3:N:75:LEU:HG	3:N:76:VAL:H	0.73	0.83
1:B:242:ARG:NH1	1:C:394:HIS:HB3	1.94	0.83
1:B:632:TRP:CD1	1:J:321:GLN:CB	2.61	0.83
1:H:242:ARG:NH1	1:I:394:HIS:HB3	1.94	0.83
2:M:62:LYS:HB3	2:M:64:TYR:HE1	1.43	0.83
1:A:813:ARG:HH12	1:B:261:LEU:HB2	1.43	0.83
1:E:396:VAL:HG12	1:E:403:TRP:HD1	1.44	0.83
3:P:23:VAL:CG2	3:P:26:LYS:HG2	2.08	0.83
1:F:794:ALA:HB1	1:F:795:PRO:HD2	1.61	0.83
1:L:476:ILE:HD12	1:L:480:VAL:HG21	1.58	0.83
3:O:73:MET:O	3:O:74:ILE:HD13	1.78	0.83
1:C:476:ILE:HD12	1:C:480:VAL:HG21	1.59	0.83
1:D:766:PRO:HD3	1:D:809:HIS:HE2	1.41	0.83
1:J:514:ASN:HB3	1:L:484:THR:HG23	1.60	0.83
1:G:396:VAL:HG12	1:G:403:TRP:HD1	1.42	0.82
1:J:8:PRO:HD3	4:R:18:GLY:HA3	1.59	0.82
1:J:484:THR:HG23	1:K:514:ASN:HB3	1.59	0.82
3:O:89:LEU:HD12	3:P:87:MET:CE	2.09	0.82
3:P:73:MET:O	3:P:74:ILE:HD13	1.78	0.82
3:P:75:LEU:CG	3:P:76:VAL:N	2.26	0.82
1:B:396:VAL:HG12	1:B:403:TRP:HD1	1.44	0.82
1:G:484:THR:HG23	1:H:514:ASN:HB3	1.59	0.82
1:H:476:ILE:HD12	1:H:480:VAL:HG21	1.61	0.82
1:K:242:ARG:NH1	1:L:394:HIS:HB3	1.94	0.82
1:L:794:ALA:HB1	1:L:795:PRO:HD2	1.61	0.82
2:M:62:LYS:HG2	2:M:473:THR:HG22	1.61	0.82
3:N:97:LEU:HD11	3:P:97:LEU:HD11	1.59	0.82
1:D:813:ARG:HH12	1:E:261:LEU:HB2	1.43	0.82
1:D:856:ALA:HB2	1:J:892:ARG:HH21	1.41	0.82
1:I:794:ALA:HB1	1:I:795:PRO:HD2	1.61	0.82
3:N:97:LEU:HD11	3:P:97:LEU:CG	2.08	0.82
1:D:687:SER:HB2	1:J:69:VAL:HG21	1.60	0.82
1:H:9:GLN:CD	4:R:31:MET:HB2	1.99	0.82
1:J:396:VAL:HG12	1:J:403:TRP:HD1	1.42	0.82
3:N:86:ARG:NE	3:O:87:MET:HG2	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:813:ARG:NH2	1:C:263:PRO:HD3	1.92	0.82
1:D:395:GLU:O	1:D:406:VAL:HB	1.80	0.82
1:E:242:ARG:NH1	1:F:394:HIS:HB3	1.94	0.82
1:E:909:ALA:CB	1:G:544:GLU:CD	2.41	0.82
1:G:514:ASN:HB3	1:I:484:THR:HG23	1.60	0.82
3:N:11:TYR:HB2	3:O:11:TYR:CB	2.08	0.82
1:A:653:SER:HA	2:M:75:THR:O	1.80	0.82
1:B:859:ALA:HB2	1:D:630:ARG:HH21	0.78	0.82
1:H:9:GLN:HE22	4:R:31:MET:CE	1.67	0.82
1:I:395:GLU:O	1:I:406:VAL:HB	1.78	0.82
1:A:208:ARG:HH12	1:A:256:GLU:HA	1.45	0.82
1:B:81:LYS:CE	1:J:658:TYR:HE2	1.92	0.82
1:E:476:ILE:HD12	1:E:480:VAL:HG21	1.61	0.82
1:K:395:GLU:O	1:K:406:VAL:HB	1.80	0.82
1:L:167:VAL:HA	1:L:173:PRO:HA	1.61	0.82
1:B:860:LEU:CA	1:D:909:ALA:HB1	2.09	0.81
1:C:67:ARG:NH1	1:D:74:GLU:OE1	2.10	0.81
1:G:851:LEU:CB	4:R:178:VAL:HG21	2.10	0.81
1:I:167:VAL:HA	1:I:173:PRO:HA	1.62	0.81
3:N:34:GLY:HA3	3:N:64:ARG:CG	2.10	0.81
3:Q:23:VAL:CG2	3:Q:26:LYS:HG2	2.08	0.81
1:A:395:GLU:O	1:A:406:VAL:HB	1.80	0.81
1:B:167:VAL:HA	1:B:173:PRO:HA	1.62	0.81
1:F:167:VAL:HA	1:F:173:PRO:HA	1.61	0.81
1:G:395:GLU:O	1:G:406:VAL:HB	1.80	0.81
3:O:74:ILE:HG23	3:O:78:ASP:OD2	1.80	0.81
3:P:34:GLY:HA3	3:P:64:ARG:CG	2.10	0.81
1:C:167:VAL:HA	1:C:173:PRO:HA	1.61	0.81
1:G:208:ARG:HH12	1:G:256:GLU:HA	1.45	0.81
1:G:902:THR:CG2	4:R:29:THR:HA	2.11	0.81
1:J:146:THR:H	1:K:412:ASN:HD22	1.25	0.81
1:J:167:VAL:HA	1:J:173:PRO:HA	1.62	0.81
1:J:813:ARG:HH12	1:K:261:LEU:HB2	1.43	0.81
1:K:283:SER:HA	1:L:191:TRP:HE1	1.46	0.81
1:L:852:LEU:CG	4:R:213:SER:HB3	2.10	0.81
3:N:74:ILE:HG23	3:N:78:ASP:OD2	1.80	0.81
3:O:34:GLY:HA3	3:O:64:ARG:CG	2.10	0.81
3:Q:17:PRO:HG3	3:Q:22:SER:HG	1.46	0.81
1:D:167:VAL:HA	1:D:173:PRO:HA	1.62	0.81
1:E:283:SER:HA	1:F:191:TRP:HE1	1.46	0.81
3:N:24:GLN:HE22	3:O:8:TYR:HD1	1.25	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:104:LEU:CD2	3:O:104:LEU:CG	2.50	0.81
1:B:776:LEU:HB3	1:B:781:HIS:NE2	1.96	0.81
1:G:263:PRO:HD3	1:I:813:ARG:NH2	1.92	0.81
1:H:710:ASP:OD1	3:Q:52:GLU:HG3	1.80	0.81
1:J:208:ARG:HH12	1:J:256:GLU:HA	1.45	0.81
3:O:11:TYR:HB2	3:P:11:TYR:HB3	1.62	0.81
1:A:328:LEU:HD22	2:M:102:ASN:CA	2.10	0.81
1:B:392:ARG:H	1:B:392:ARG:HD3	1.46	0.81
1:B:395:GLU:O	1:B:406:VAL:HB	1.80	0.81
1:C:794:ALA:HB1	1:C:795:PRO:HD2	1.61	0.81
1:E:632:TRP:NE1	1:G:321:GLN:HB3	1.94	0.81
1:G:146:THR:H	1:H:412:ASN:HD22	1.25	0.81
1:K:476:ILE:HD12	1:K:480:VAL:HG21	1.61	0.81
1:L:138:ALA:HA	1:L:278:LYS:HD3	1.63	0.81
1:L:776:LEU:HB3	1:L:781:HIS:NE2	1.96	0.81
2:M:138:ARG:HB2	2:M:238:ASP:HB3	1.60	0.81
3:N:29:SER:OG	3:N:34:GLY:CA	2.21	0.81
1:B:283:SER:HA	1:C:191:TRP:HE1	1.46	0.81
1:B:447:LEU:HD11	1:B:490:VAL:HG21	1.63	0.81
1:B:476:ILE:HD12	1:B:480:VAL:HG21	1.61	0.81
1:B:689:VAL:CA	1:D:906:ALA:HB1	1.96	0.81
1:D:392:ARG:HD3	1:D:392:ARG:H	1.46	0.81
1:D:514:ASN:HB3	1:F:484:THR:HG23	1.60	0.81
1:E:167:VAL:HA	1:E:173:PRO:HA	1.62	0.81
1:E:395:GLU:O	1:E:406:VAL:HB	1.80	0.81
1:H:392:ARG:H	1:H:392:ARG:HD3	1.46	0.81
1:K:167:VAL:HA	1:K:173:PRO:HA	1.62	0.81
1:K:792:CYS:O	1:K:793:ARG:HG3	1.81	0.81
1:B:309:GLY:O	1:J:654:PRO:HD2	1.81	0.81
1:B:891:HIS:CB	1:J:630:ARG:HH22	1.86	0.81
1:B:894:VAL:CG1	1:J:908:ASN:O	2.25	0.81
1:D:208:ARG:HH12	1:D:256:GLU:HA	1.45	0.81
1:H:167:VAL:HA	1:H:173:PRO:HA	1.62	0.81
1:C:138:ALA:HA	1:C:278:LYS:HD3	1.63	0.81
1:E:792:CYS:O	1:E:793:ARG:HG3	1.81	0.81
1:H:792:CYS:O	1:H:793:ARG:HG3	1.81	0.81
1:J:392:ARG:H	1:J:392:ARG:HD3	1.46	0.81
1:K:396:VAL:HG12	1:K:403:TRP:HD1	1.44	0.81
3:O:74:ILE:HG23	3:O:78:ASP:CG	2.02	0.81
1:H:776:LEU:HB3	1:H:781:HIS:NE2	1.96	0.81
1:K:458:PRO:HG3	3:P:66:PRO:CA	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:34:GLY:HA3	3:Q:64:ARG:CG	2.10	0.81
3:Q:74:ILE:HG23	3:Q:78:ASP:OD2	1.80	0.81
1:D:263:PRO:HD3	1:F:813:ARG:NH2	1.92	0.80
1:H:396:VAL:HG12	1:H:403:TRP:HD1	1.44	0.80
1:J:395:GLU:O	1:J:406:VAL:HB	1.80	0.80
3:N:90:LEU:HD13	3:P:90:LEU:HG	1.62	0.80
1:B:653:SER:OG	1:J:77:GLN:NE2	1.92	0.80
1:B:685:PHE:HA	1:D:909:ALA:HB3	0.84	0.80
1:B:900:LEU:HD23	1:C:13:MET:HG3	1.63	0.80
1:F:138:ALA:HA	1:F:278:LYS:HD3	1.63	0.80
1:F:396:VAL:HG12	1:F:403:TRP:CD1	2.17	0.80
3:N:87:MET:CG	3:P:86:ARG:HE	1.93	0.80
3:O:97:LEU:HD11	3:P:97:LEU:HD11	1.64	0.80
3:P:74:ILE:HG23	3:P:78:ASP:OD2	1.80	0.80
3:N:27:THR:HG21	3:N:67:GLU:OE1	1.82	0.80
3:N:30:ASN:O	3:N:33:GLY:CA	2.29	0.80
1:B:817:ARG:H	1:B:817:ARG:NE	1.79	0.80
1:H:395:GLU:O	1:H:406:VAL:HB	1.80	0.80
3:N:74:ILE:HA	3:N:78:ASP:HB2	1.63	0.80
3:N:90:LEU:CG	3:O:90:LEU:HD21	1.99	0.80
1:A:790:ARG:NH1	1:B:186:LEU:HA	1.97	0.80
1:B:685:PHE:CA	1:D:909:ALA:CB	2.41	0.80
1:B:689:VAL:CB	1:D:906:ALA:CB	2.44	0.80
1:D:900:LEU:HD22	1:E:9:GLN:HE21	1.46	0.80
1:K:776:LEU:HB3	1:K:781:HIS:NE2	1.96	0.80
3:N:65:ARG:NH1	3:N:65:ARG:CA	2.44	0.80
3:N:73:MET:SD	3:N:74:ILE:N	2.55	0.80
3:N:74:ILE:HG23	3:N:78:ASP:CG	2.01	0.80
3:Q:74:ILE:HG23	3:Q:78:ASP:CG	2.01	0.80
1:H:283:SER:HA	1:I:191:TRP:HE1	1.46	0.80
1:I:776:LEU:HB3	1:I:781:HIS:NE2	1.96	0.80
1:J:402:GLN:O	1:J:403:TRP:HB2	1.82	0.80
1:J:790:ARG:NH1	1:K:186:LEU:HA	1.97	0.80
1:K:447:LEU:HD11	1:K:490:VAL:HG21	1.63	0.80
1:K:900:LEU:HD23	1:L:13:MET:HG3	1.63	0.80
3:O:30:ASN:O	3:O:33:GLY:CA	2.29	0.80
3:P:73:MET:SD	3:P:74:ILE:N	2.55	0.80
1:B:632:TRP:CG	1:J:321:GLN:HB3	2.17	0.80
1:E:813:ARG:NH2	1:F:263:PRO:HD3	1.92	0.80
1:G:900:LEU:HD22	1:H:9:GLN:HE21	1.47	0.80
1:K:768:PRO:HG2	3:O:58:LEU:HA	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:65:ARG:NH1	3:P:65:ARG:CA	2.44	0.80
3:P:74:ILE:HG23	3:P:78:ASP:CG	2.02	0.80
3:Q:30:ASN:O	3:Q:33:GLY:CA	2.29	0.80
1:B:138:ALA:HA	1:B:278:LYS:HD3	1.64	0.80
1:E:776:LEU:HB3	1:E:781:HIS:NE2	1.96	0.80
1:K:813:ARG:NH2	1:L:263:PRO:HD3	1.92	0.80
1:B:900:LEU:HD22	1:C:9:GLN:HE21	1.47	0.80
1:C:396:VAL:HG12	1:C:403:TRP:CD1	2.17	0.80
1:G:790:ARG:NH1	1:H:186:LEU:HA	1.97	0.80
1:H:900:LEU:HD23	1:I:13:MET:HG3	1.63	0.80
3:O:73:MET:SD	3:O:74:ILE:N	2.55	0.80
3:O:74:ILE:HA	3:O:78:ASP:HB2	1.63	0.80
1:A:392:ARG:HD3	1:A:392:ARG:H	1.46	0.80
1:F:776:LEU:HB3	1:F:781:HIS:NE2	1.96	0.80
1:G:167:VAL:HA	1:G:173:PRO:HA	1.62	0.80
1:B:792:CYS:O	1:B:793:ARG:HG3	1.81	0.79
1:D:396:VAL:HG12	1:D:403:TRP:CD1	2.17	0.79
1:J:900:LEU:HD22	1:K:9:GLN:HE21	1.47	0.79
2:M:198:LYS:O	2:M:230:VAL:HG12	1.82	0.79
3:Q:65:ARG:NH1	3:Q:65:ARG:CA	2.44	0.79
4:R:197:TYR:HB3	4:R:198:PRO:HD2	1.64	0.79
1:A:167:VAL:HA	1:A:173:PRO:HA	1.62	0.79
1:A:900:LEU:HD22	1:B:9:GLN:HE21	1.46	0.79
1:C:67:ARG:NH2	1:D:81:LYS:HZ3	1.80	0.79
1:E:447:LEU:HD11	1:E:490:VAL:HG21	1.63	0.79
1:E:909:ALA:CA	1:G:83:ARG:HH11	1.93	0.79
1:K:392:ARG:H	1:K:392:ARG:HD3	1.46	0.79
3:Q:27:THR:HG21	3:Q:67:GLU:OE1	1.81	0.79
1:C:402:GLN:O	1:C:403:TRP:HB2	1.83	0.79
1:E:817:ARG:HE	1:E:817:ARG:N	1.80	0.79
1:E:900:LEU:HD23	1:F:13:MET:HG3	1.63	0.79
1:I:396:VAL:HG12	1:I:403:TRP:CD1	2.17	0.79
1:L:396:VAL:HG12	1:L:403:TRP:CD1	2.17	0.79
3:O:65:ARG:NH1	3:O:65:ARG:CA	2.44	0.79
1:E:392:ARG:H	1:E:392:ARG:HD3	1.46	0.79
3:O:27:THR:HG21	3:O:67:GLU:OE1	1.82	0.79
3:P:30:ASN:O	3:P:33:GLY:CA	2.29	0.79
3:P:34:GLY:HA3	3:P:64:ARG:HG2	1.65	0.79
1:G:396:VAL:HG12	1:G:403:TRP:CD1	2.17	0.79
1:H:138:ALA:HA	1:H:278:LYS:HD3	1.64	0.79
1:K:817:ARG:H	1:K:817:ARG:NE	1.79	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:11:TYR:HB3	3:P:11:TYR:CB	2.11	0.79
1:A:146:THR:H	1:B:412:ASN:ND2	1.81	0.79
1:A:328:LEU:CD2	2:M:102:ASN:CA	2.61	0.79
1:C:67:ARG:HH21	1:D:81:LYS:HZ3	1.29	0.79
1:E:900:LEU:HD22	1:F:9:GLN:HE21	1.47	0.79
1:K:138:ALA:HA	1:K:278:LYS:HD3	1.64	0.79
3:P:27:THR:HG21	3:P:67:GLU:OE1	1.82	0.79
1:B:891:HIS:CD2	1:J:630:ARG:HH21	2.01	0.79
1:E:138:ALA:HA	1:E:278:LYS:HD3	1.64	0.79
1:H:447:LEU:HD11	1:H:490:VAL:HG21	1.63	0.79
1:J:146:THR:H	1:K:412:ASN:ND2	1.81	0.79
1:K:836:SER:HB3	1:L:57:THR:HG21	1.65	0.79
3:Q:73:MET:SD	3:Q:74:ILE:N	2.55	0.79
1:A:186:LEU:HA	1:C:790:ARG:NH1	1.98	0.79
1:A:402:GLN:O	1:A:403:TRP:HB2	1.82	0.79
1:B:891:HIS:N	1:J:910:THR:N	2.30	0.79
1:C:776:LEU:HB3	1:C:781:HIS:NE2	1.96	0.79
3:N:90:LEU:HD21	3:P:90:LEU:CD1	2.11	0.79
3:O:90:LEU:HG	3:P:90:LEU:HD11	1.64	0.79
3:O:93:SER:HB2	3:P:94:ASN:OD1	1.82	0.79
3:Q:74:ILE:HA	3:Q:78:ASP:HB2	1.63	0.79
1:G:813:ARG:NH1	1:H:261:LEU:HB2	1.98	0.79
1:J:396:VAL:HG12	1:J:403:TRP:CD1	2.17	0.79
1:L:170:ARG:NH2	3:P:98:LEU:CA	2.46	0.79
3:N:25:ASP:CA	3:N:38:PRO:CB	2.59	0.79
1:A:396:VAL:HG12	1:A:403:TRP:CD1	2.17	0.78
1:C:817:ARG:HE	1:C:817:ARG:N	1.81	0.78
1:G:392:ARG:HD3	1:G:392:ARG:H	1.46	0.78
1:J:186:LEU:HA	1:L:790:ARG:NH1	1.98	0.78
1:K:402:GLN:O	1:K:403:TRP:HB2	1.83	0.78
1:K:817:ARG:HE	1:K:817:ARG:N	1.80	0.78
1:B:891:HIS:ND1	1:J:910:THR:N	2.31	0.78
1:H:900:LEU:HD22	1:I:9:GLN:HE21	1.47	0.78
1:J:505:LEU:HD22	1:J:556:GLN:HE21	1.48	0.78
3:N:11:TYR:CG	3:O:11:TYR:HB3	2.18	0.78
3:N:77:GLU:HA	3:N:80:LEU:CD1	2.14	0.78
3:P:77:GLU:HA	3:P:80:LEU:CD1	2.14	0.78
1:A:813:ARG:NH1	1:B:261:LEU:HB2	1.98	0.78
1:D:790:ARG:NH1	1:E:186:LEU:HA	1.97	0.78
1:J:394:HIS:HB3	1:L:242:ARG:NH1	1.99	0.78
3:N:34:GLY:HA3	3:N:64:ARG:HG2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:687:SER:OG	1:J:69:VAL:HG22	1.82	0.78
2:M:368:THR:HA	2:M:371:TYR:CE2	2.19	0.78
3:O:23:VAL:O	3:O:39:PRO:CG	2.32	0.78
1:D:186:LEU:HA	1:F:790:ARG:NH1	1.98	0.78
1:H:836:SER:HB3	1:I:57:THR:HG21	1.65	0.78
1:J:813:ARG:NH1	1:K:261:LEU:HB2	1.98	0.78
3:O:104:LEU:HG	3:P:104:LEU:HD13	1.61	0.78
3:P:74:ILE:HA	3:P:78:ASP:HB2	1.63	0.78
3:Q:77:GLU:OE1	3:Q:80:LEU:HD13	1.84	0.78
1:B:686:ASP:N	1:D:909:ALA:CB	2.46	0.78
1:G:447:LEU:HD11	1:G:490:VAL:HG21	1.66	0.78
1:I:402:GLN:O	1:I:403:TRP:HB2	1.83	0.78
1:B:309:GLY:O	1:J:653:SER:HB2	1.84	0.78
1:D:813:ARG:NH1	1:E:261:LEU:HB2	1.98	0.78
1:I:138:ALA:HA	1:I:278:LYS:HD3	1.63	0.78
2:M:73:ILE:HD11	2:M:76:LEU:HD12	1.64	0.78
3:O:77:GLU:OE1	3:O:80:LEU:HD13	1.84	0.78
3:Q:77:GLU:HA	3:Q:80:LEU:CD1	2.14	0.78
1:E:402:GLN:O	1:E:403:TRP:HB2	1.83	0.78
1:G:394:HIS:HB3	1:I:242:ARG:NH1	1.99	0.78
1:H:820:GLU:HG3	3:Q:46:THR:CG2	1.95	0.78
3:N:23:VAL:O	3:N:39:PRO:CG	2.32	0.78
3:N:104:LEU:HG	3:O:104:LEU:HD13	1.63	0.78
3:Q:23:VAL:O	3:Q:39:PRO:CG	2.32	0.78
1:A:447:LEU:HD11	1:A:490:VAL:HG21	1.66	0.78
1:A:817:ARG:HE	1:A:817:ARG:N	1.82	0.78
1:D:817:ARG:HE	1:D:817:ARG:N	1.82	0.78
1:G:851:LEU:HB3	4:R:178:VAL:CG2	2.14	0.78
3:N:90:LEU:CD2	3:O:90:LEU:CD2	0.78	0.78
1:B:402:GLN:O	1:B:403:TRP:HB2	1.83	0.78
1:E:396:VAL:HG12	1:E:403:TRP:CD1	2.18	0.78
1:F:402:GLN:O	1:F:403:TRP:HB2	1.83	0.78
1:J:476:ILE:HA	1:J:480:VAL:HG11	1.66	0.78
3:P:29:SER:OG	3:P:34:GLY:CA	2.21	0.78
3:Q:57:ASN:CB	3:Q:62:GLY:HA3	2.14	0.78
1:B:776:LEU:HD21	1:B:807:PRO:HD3	1.66	0.77
1:B:836:SER:HB3	1:C:57:THR:HG21	1.65	0.77
1:D:394:HIS:HB3	1:F:242:ARG:NH1	1.99	0.77
1:E:60:ARG:HD3	1:J:59:GLU:C	2.02	0.77
1:E:476:ILE:HA	1:E:480:VAL:HG11	1.66	0.77
1:E:641:THR:HG22	1:E:642:ARG:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:908:ASN:O	1:G:544:GLU:OE1	2.02	0.77
1:K:900:LEU:HD22	1:L:9:GLN:HE21	1.47	0.77
1:L:402:GLN:O	1:L:403:TRP:HB2	1.83	0.77
3:N:90:LEU:CG	3:O:90:LEU:HD13	2.06	0.77
1:B:476:ILE:HA	1:B:480:VAL:HG11	1.66	0.77
1:D:716:VAL:CG1	1:D:723:LYS:HG2	2.14	0.77
1:G:505:LEU:HD22	1:G:556:GLN:HE21	1.48	0.77
1:H:208:ARG:HH12	1:H:256:GLU:HA	1.49	0.77
1:L:817:ARG:H	1:L:817:ARG:NE	1.81	0.77
3:N:57:ASN:CB	3:N:62:GLY:HA3	2.14	0.77
3:N:77:GLU:OE1	3:N:80:LEU:HD13	1.84	0.77
3:N:104:LEU:HD21	3:O:104:LEU:HD13	0.90	0.77
3:O:29:SER:OG	3:O:34:GLY:CA	2.21	0.77
3:O:77:GLU:HA	3:O:80:LEU:CD1	2.14	0.77
1:A:776:LEU:HB3	1:A:781:HIS:NE2	2.00	0.77
1:B:686:ASP:N	1:D:909:ALA:HB3	1.98	0.77
1:D:146:THR:H	1:E:412:ASN:ND2	1.81	0.77
1:E:817:ARG:H	1:E:817:ARG:NE	1.79	0.77
1:G:186:LEU:HA	1:I:790:ARG:NH1	1.98	0.77
1:G:817:ARG:HE	1:G:817:ARG:N	1.82	0.77
1:G:855:ASN:HD21	4:R:178:VAL:HG22	1.50	0.77
1:H:68:PHE:HE1	1:L:321:GLN:OE1	1.62	0.77
1:H:73:ARG:HH22	1:L:83:ARG:HH22	1.29	0.77
3:P:77:GLU:OE1	3:P:80:LEU:HD13	1.84	0.77
1:A:261:LEU:HB2	1:C:813:ARG:NH1	1.99	0.77
1:A:394:HIS:HB3	1:C:242:ARG:NH1	1.99	0.77
1:D:402:GLN:O	1:D:403:TRP:HB2	1.82	0.77
1:D:505:LEU:HD22	1:D:556:GLN:HE21	1.48	0.77
1:G:261:LEU:HB2	1:I:813:ARG:NH1	1.99	0.77
1:G:855:ASN:ND2	4:R:178:VAL:HG22	2.00	0.77
1:J:396:VAL:HG22	1:J:405:ASN:HA	1.67	0.77
1:K:396:VAL:HG12	1:K:403:TRP:CD1	2.18	0.77
3:O:57:ASN:CB	3:O:62:GLY:HA3	2.14	0.77
3:Q:34:GLY:HA3	3:Q:64:ARG:HG2	1.65	0.77
4:R:175:ARG:NH1	4:R:175:ARG:HB2	1.99	0.77
1:A:396:VAL:HG22	1:A:405:ASN:HA	1.67	0.77
1:A:476:ILE:HA	1:A:480:VAL:HG11	1.66	0.77
1:A:716:VAL:CG1	1:A:723:LYS:HG2	2.14	0.77
1:B:396:VAL:HG12	1:B:403:TRP:CD1	2.19	0.77
1:B:686:ASP:O	1:D:908:ASN:OD1	1.98	0.77
1:C:396:VAL:HG22	1:C:405:ASN:HA	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:396:VAL:HG22	1:D:405:ASN:HA	1.67	0.77
1:D:476:ILE:HA	1:D:480:VAL:HG11	1.66	0.77
1:D:776:LEU:HB3	1:D:781:HIS:NE2	2.00	0.77
1:F:208:ARG:C	1:F:210:PRO:HD3	2.05	0.77
1:H:476:ILE:HA	1:H:480:VAL:HG11	1.66	0.77
1:I:208:ARG:C	1:I:210:PRO:HD3	2.05	0.77
1:J:261:LEU:HB2	1:L:813:ARG:NH1	1.99	0.77
1:J:776:LEU:HB3	1:J:781:HIS:NE2	2.00	0.77
1:K:208:ARG:HH12	1:K:256:GLU:HA	1.49	0.77
1:K:868:PRO:HG3	3:O:40:ASN:HB2	1.67	0.77
3:N:90:LEU:CD1	3:P:90:LEU:HG	2.14	0.77
1:A:782:ARG:O	1:A:803:GLN:HB2	1.85	0.77
1:C:208:ARG:C	1:C:210:PRO:HD3	2.05	0.77
1:D:261:LEU:HB2	1:F:813:ARG:NH1	1.99	0.77
1:E:790:ARG:NH1	1:F:186:LEU:HA	1.99	0.77
1:F:639:SER:HB3	1:F:878:LEU:HB2	1.67	0.77
1:G:716:VAL:CG1	1:G:723:LYS:HG2	2.15	0.77
1:G:776:LEU:HB3	1:G:781:HIS:NE2	2.00	0.77
1:I:396:VAL:HG22	1:I:405:ASN:HA	1.67	0.77
1:K:628:PRO:HG3	3:P:12:VAL:HG11	1.65	0.77
3:P:57:ASN:CB	3:P:62:GLY:HA3	2.14	0.77
1:B:790:ARG:NH1	1:C:186:LEU:HA	1.99	0.77
1:D:782:ARG:O	1:D:803:GLN:HB2	1.85	0.77
1:E:679:ARG:HD2	1:E:865:GLU:HG2	1.67	0.77
1:G:402:GLN:O	1:G:403:TRP:HB2	1.82	0.77
1:H:790:ARG:NH1	1:I:186:LEU:HA	1.99	0.77
1:K:821:ARG:O	3:O:47:GLU:CB	2.32	0.77
3:P:23:VAL:O	3:P:39:PRO:CG	2.32	0.77
1:A:505:LEU:HD22	1:A:556:GLN:HE21	1.48	0.77
1:B:396:VAL:HG22	1:B:405:ASN:HA	1.67	0.77
1:B:679:ARG:HD2	1:B:865:GLU:HG2	1.67	0.77
1:C:784:THR:HG22	1:C:787:TYR:HB2	1.67	0.77
1:D:776:LEU:HD21	1:D:807:PRO:HD3	1.67	0.77
1:E:836:SER:HB3	1:F:57:THR:HG21	1.65	0.77
1:G:191:TRP:HE1	1:I:283:SER:HA	1.49	0.77
1:G:776:LEU:HD21	1:G:807:PRO:HD3	1.67	0.77
1:G:813:ARG:NH2	1:H:263:PRO:HD3	1.99	0.77
1:G:863:THR:HA	1:L:909:ALA:CB	2.15	0.77
1:I:396:VAL:HG12	1:I:403:TRP:HD1	1.48	0.77
3:O:75:LEU:HD23	3:O:77:GLU:OE2	1.85	0.77
1:B:641:THR:HG22	1:B:642:ARG:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:716:VAL:CG1	1:B:723:LYS:HG2	2.15	0.77
1:E:639:SER:HB3	1:E:878:LEU:HB2	1.67	0.77
1:F:396:VAL:HG12	1:F:403:TRP:HD1	1.48	0.77
1:F:396:VAL:HG22	1:F:405:ASN:HA	1.67	0.77
1:G:146:THR:H	1:H:412:ASN:ND2	1.81	0.77
1:H:396:VAL:HG12	1:H:403:TRP:CD1	2.18	0.77
1:H:776:LEU:HD21	1:H:807:PRO:HD3	1.66	0.77
1:I:639:SER:HB3	1:I:878:LEU:HB2	1.67	0.77
1:J:447:LEU:HD11	1:J:490:VAL:HG21	1.66	0.77
1:K:396:VAL:HG22	1:K:405:ASN:HA	1.67	0.77
1:K:655:PHE:HE2	3:P:30:ASN:HD21	1.31	0.77
1:L:639:SER:HB3	1:L:878:LEU:HB2	1.67	0.77
1:L:784:THR:HG22	1:L:787:TYR:HB2	1.67	0.77
3:P:30:ASN:H	3:P:34:GLY:H	1.33	0.77
1:C:67:ARG:HH21	1:D:81:LYS:NZ	1.80	0.77
1:D:208:ARG:C	1:D:210:PRO:HD3	2.06	0.77
1:G:639:SER:HB3	1:G:878:LEU:HB2	1.67	0.77
1:I:817:ARG:H	1:I:817:ARG:NE	1.81	0.77
1:J:776:LEU:HD21	1:J:807:PRO:HD3	1.67	0.77
1:J:817:ARG:HE	1:J:817:ARG:N	1.82	0.77
1:K:790:ARG:NH1	1:L:186:LEU:HA	1.99	0.77
3:N:30:ASN:H	3:N:34:GLY:H	1.33	0.77
1:A:653:SER:CA	2:M:75:THR:O	2.32	0.76
1:B:208:ARG:HH12	1:B:256:GLU:HA	1.49	0.76
1:G:283:SER:HA	1:H:191:TRP:HE1	1.50	0.76
1:K:784:THR:HG22	1:K:787:TYR:HB2	1.67	0.76
1:C:776:LEU:HD21	1:C:807:PRO:HD3	1.67	0.76
1:E:891:HIS:CE1	4:R:27:TYR:CE1	2.73	0.76
1:F:817:ARG:H	1:F:817:ARG:NE	1.81	0.76
3:N:104:LEU:CD2	3:P:104:LEU:HD21	2.15	0.76
3:O:25:ASP:CA	3:O:38:PRO:CB	2.60	0.76
1:A:776:LEU:HD21	1:A:807:PRO:HD3	1.67	0.76
1:D:191:TRP:HE1	1:F:283:SER:HA	1.49	0.76
1:E:76:THR:OG1	1:G:658:TYR:CE1	2.37	0.76
1:J:639:SER:HB3	1:J:878:LEU:HB2	1.68	0.76
1:K:813:ARG:NH1	1:L:261:LEU:HB2	2.00	0.76
1:L:208:ARG:C	1:L:210:PRO:HD3	2.05	0.76
3:P:75:LEU:HD23	3:P:77:GLU:OE2	1.85	0.76
1:B:813:ARG:NH1	1:C:261:LEU:HB2	2.00	0.76
1:C:396:VAL:HG12	1:C:403:TRP:HD1	1.49	0.76
1:E:784:THR:HG22	1:E:787:TYR:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:208:ARG:HH12	1:F:256:GLU:HA	1.51	0.76
1:H:396:VAL:HG22	1:H:405:ASN:HA	1.67	0.76
1:J:208:ARG:C	1:J:210:PRO:HD3	2.06	0.76
1:K:716:VAL:CG1	1:K:723:LYS:HG2	2.15	0.76
1:L:447:LEU:HD11	1:L:490:VAL:HG21	1.68	0.76
1:E:813:ARG:NH1	1:F:261:LEU:HB2	2.00	0.76
1:F:447:LEU:HD11	1:F:490:VAL:HG21	1.68	0.76
1:L:817:ARG:HE	1:L:817:ARG:N	1.81	0.76
1:E:716:VAL:CG1	1:E:723:LYS:HG2	2.15	0.76
1:G:132:ASN:HD21	1:I:799:HIS:CE1	2.04	0.76
1:G:628:PRO:CD	1:L:630:ARG:HH21	1.94	0.76
1:K:639:SER:HB3	1:K:878:LEU:HB2	1.67	0.76
1:L:208:ARG:HH12	1:L:256:GLU:HA	1.51	0.76
1:L:476:ILE:HA	1:L:480:VAL:HG11	1.68	0.76
2:M:285:LYS:HE3	2:M:288:ARG:HB2	1.65	0.76
3:N:90:LEU:HD21	3:O:90:LEU:HG	1.55	0.76
1:B:639:SER:HB3	1:B:878:LEU:HB2	1.67	0.76
1:C:476:ILE:HA	1:C:480:VAL:HG11	1.68	0.76
1:D:283:SER:HA	1:E:191:TRP:HE1	1.51	0.76
1:I:784:THR:HG22	1:I:787:TYR:HB2	1.67	0.76
1:K:208:ARG:C	1:K:210:PRO:HD3	2.07	0.76
3:O:23:VAL:O	3:O:39:PRO:HG3	1.86	0.76
3:P:15:ARG:CG	3:P:15:ARG:NH1	2.45	0.76
1:G:782:ARG:O	1:G:803:GLN:HB2	1.85	0.76
1:K:476:ILE:HA	1:K:480:VAL:HG11	1.66	0.76
1:L:392:ARG:HD3	1:L:392:ARG:H	1.50	0.76
3:O:34:GLY:HA3	3:O:64:ARG:HG2	1.65	0.76
3:O:104:LEU:HD21	3:P:104:LEU:CB	2.14	0.76
1:C:392:ARG:H	1:C:392:ARG:HD3	1.50	0.76
1:E:76:THR:CG2	1:G:658:TYR:HE1	1.97	0.76
1:E:776:LEU:HD21	1:E:807:PRO:HD3	1.66	0.76
1:F:784:THR:HG22	1:F:787:TYR:HB2	1.67	0.76
1:H:813:ARG:NH1	1:I:261:LEU:HB2	2.00	0.76
1:J:782:ARG:O	1:J:803:GLN:HB2	1.85	0.76
1:K:641:THR:HG22	1:K:642:ARG:N	1.99	0.76
1:K:776:LEU:HD21	1:K:807:PRO:HD3	1.66	0.76
3:N:75:LEU:HD23	3:N:77:GLU:OE2	1.85	0.76
3:O:35:VAL:HG12	3:O:67:GLU:OE2	1.86	0.76
1:A:208:ARG:C	1:A:210:PRO:HD3	2.06	0.76
1:A:641:THR:HG22	1:A:642:ARG:N	2.00	0.76
1:G:412:ASN:HD22	1:I:146:THR:H	1.34	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:476:ILE:HA	1:I:480:VAL:HG11	1.68	0.76
3:Q:20:SER:OG	3:Q:21:GLY:N	2.14	0.76
3:Q:75:LEU:HD23	3:Q:77:GLU:OE2	1.85	0.76
1:A:799:HIS:HE1	1:B:148:ALA:HB1	1.51	0.75
1:H:784:THR:HG22	1:H:787:TYR:HB2	1.67	0.75
1:I:208:ARG:HH12	1:I:256:GLU:HA	1.51	0.75
1:J:191:TRP:HE1	1:L:283:SER:HA	1.49	0.75
1:J:716:VAL:CG1	1:J:723:LYS:HG2	2.15	0.75
3:N:83:LEU:HD21	3:O:83:LEU:CG	2.16	0.75
3:Q:30:ASN:H	3:Q:34:GLY:H	1.33	0.75
1:A:283:SER:HA	1:B:191:TRP:HE1	1.50	0.75
1:G:476:ILE:HA	1:G:480:VAL:HG11	1.66	0.75
1:H:639:SER:HB3	1:H:878:LEU:HB2	1.67	0.75
1:J:132:ASN:HD21	1:L:799:HIS:CE1	2.04	0.75
1:J:817:ARG:H	1:J:817:ARG:NE	1.83	0.75
3:O:90:LEU:CG	3:P:90:LEU:HD11	2.14	0.75
3:Q:23:VAL:O	3:Q:39:PRO:HG3	1.86	0.75
3:Q:29:SER:OG	3:Q:34:GLY:CA	2.21	0.75
1:B:909:ALA:CB	1:J:544:GLU:CB	2.64	0.75
1:D:132:ASN:HD21	1:F:799:HIS:CE1	2.04	0.75
1:D:447:LEU:HD11	1:D:490:VAL:HG21	1.66	0.75
1:J:283:SER:HA	1:K:191:TRP:HE1	1.51	0.75
1:K:679:ARG:HD2	1:K:865:GLU:HG2	1.67	0.75
3:N:104:LEU:HD21	3:O:104:LEU:CD2	2.16	0.75
3:P:35:VAL:HG12	3:P:67:GLU:OE2	1.86	0.75
1:A:191:TRP:HE1	1:C:283:SER:HA	1.49	0.75
1:A:813:ARG:NH2	1:B:263:PRO:HD3	1.99	0.75
1:C:679:ARG:HD2	1:C:865:GLU:HG2	1.68	0.75
1:G:836:SER:HB3	1:H:57:THR:HG21	1.68	0.75
1:H:402:GLN:O	1:H:403:TRP:HB2	1.83	0.75
1:H:817:ARG:H	1:H:817:ARG:NE	1.79	0.75
1:I:392:ARG:HD3	1:I:392:ARG:H	1.50	0.75
1:L:396:VAL:HG12	1:L:403:TRP:HD1	1.49	0.75
1:C:817:ARG:H	1:C:817:ARG:NE	1.81	0.75
1:D:412:ASN:HD22	1:F:146:THR:H	1.34	0.75
1:E:208:ARG:HH12	1:E:256:GLU:HA	1.49	0.75
1:B:891:HIS:N	1:J:909:ALA:C	2.38	0.75
1:C:208:ARG:HH12	1:C:256:GLU:HA	1.51	0.75
1:C:447:LEU:HD11	1:C:490:VAL:HG21	1.68	0.75
1:G:208:ARG:C	1:G:210:PRO:HD3	2.06	0.75
1:H:208:ARG:C	1:H:210:PRO:HD3	2.07	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:710:ASP:OD1	3:Q:52:GLU:CG	2.33	0.75
1:H:868:PRO:HG3	3:Q:40:ASN:HB2	1.68	0.75
1:K:470:ILE:HD12	1:K:793:ARG:NH1	2.02	0.75
1:L:679:ARG:HD2	1:L:865:GLU:HG2	1.68	0.75
3:N:23:VAL:O	3:N:39:PRO:HG3	1.86	0.75
1:B:909:ALA:N	1:J:83:ARG:NH1	2.34	0.75
1:E:396:VAL:HG22	1:E:405:ASN:HA	1.67	0.75
1:H:702:GLU:OE1	3:Q:19:TRP:HD1	1.67	0.75
1:I:505:LEU:HD22	1:I:556:GLN:HE21	1.52	0.75
1:C:505:LEU:HD22	1:C:556:GLN:HE21	1.52	0.75
1:G:784:THR:HG22	1:G:787:TYR:HB2	1.69	0.75
1:I:679:ARG:HD2	1:I:865:GLU:HG2	1.68	0.75
1:I:776:LEU:HD21	1:I:807:PRO:HD3	1.67	0.75
3:N:97:LEU:HD22	3:P:97:LEU:HD23	0.75	0.75
3:O:11:TYR:HB2	3:P:11:TYR:CB	2.16	0.75
3:P:23:VAL:O	3:P:39:PRO:HG3	1.86	0.75
1:B:208:ARG:C	1:B:210:PRO:HD3	2.07	0.74
1:F:776:LEU:HD21	1:F:807:PRO:HD3	1.67	0.74
2:M:303:GLU:OE2	2:M:309:GLU:HG3	1.87	0.74
3:P:25:ASP:CA	3:P:38:PRO:CB	2.60	0.74
1:A:111:ALA:HB1	1:C:812:PRO:HD3	1.69	0.74
1:A:639:SER:HB3	1:A:878:LEU:HB2	1.68	0.74
1:B:784:THR:HG22	1:B:787:TYR:HB2	1.67	0.74
1:C:639:SER:HB3	1:C:878:LEU:HB2	1.66	0.74
1:E:799:HIS:CE1	1:F:132:ASN:HD21	2.05	0.74
1:H:825:CYS:SG	1:H:828:THR:HG21	2.27	0.74
1:L:776:LEU:HD21	1:L:807:PRO:HD3	1.67	0.74
2:M:349:TYR:CD1	2:M:376:THR:HG22	2.23	0.74
1:C:782:ARG:O	1:C:803:GLN:HB2	1.87	0.74
1:D:639:SER:HB3	1:D:878:LEU:HB2	1.68	0.74
1:D:836:SER:HB3	1:E:57:THR:HG21	1.68	0.74
1:G:57:THR:HG21	1:I:836:SER:HB3	1.70	0.74
1:G:799:HIS:HE1	1:H:148:ALA:HB1	1.51	0.74
1:H:470:ILE:HD12	1:H:793:ARG:NH1	2.02	0.74
1:H:679:ARG:HD2	1:H:865:GLU:HG2	1.67	0.74
1:L:505:LEU:HD22	1:L:556:GLN:HE21	1.52	0.74
3:N:90:LEU:CG	3:O:90:LEU:HD11	2.17	0.74
1:B:799:HIS:CE1	1:C:132:ASN:HD21	2.05	0.74
1:D:283:SER:HA	1:E:191:TRP:NE1	2.03	0.74
1:G:261:LEU:HB2	1:I:813:ARG:HH12	1.52	0.74
1:G:396:VAL:HG22	1:G:405:ASN:HA	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:447:LEU:HD11	1:I:490:VAL:HG21	1.68	0.74
1:I:782:ARG:O	1:I:803:GLN:HB2	1.87	0.74
1:L:396:VAL:HG22	1:L:405:ASN:HA	1.67	0.74
3:O:30:ASN:H	3:O:34:GLY:H	1.33	0.74
1:D:799:HIS:HE1	1:E:148:ALA:HB1	1.51	0.74
1:E:208:ARG:C	1:E:210:PRO:HD3	2.07	0.74
2:M:431:LYS:HD2	2:M:432:PRO:HD2	1.69	0.74
3:O:11:TYR:CG	3:P:11:TYR:HB3	2.22	0.74
1:A:132:ASN:HD21	1:C:799:HIS:CE1	2.04	0.74
1:B:309:GLY:CA	1:J:654:PRO:CD	2.64	0.74
1:B:909:ALA:HB2	1:J:544:GLU:CD	2.06	0.74
1:F:392:ARG:H	1:F:392:ARG:HD3	1.50	0.74
1:H:716:VAL:CG1	1:H:723:LYS:HG2	2.15	0.74
1:J:641:THR:HG22	1:J:642:ARG:N	2.00	0.74
3:N:83:LEU:O	3:P:86:ARG:CZ	2.18	0.74
3:Q:75:LEU:HG	3:Q:76:VAL:HG23	1.70	0.74
1:A:412:ASN:HD22	1:C:146:THR:H	1.34	0.74
1:B:76:THR:HG1	1:J:658:TYR:HE1	1.34	0.74
1:D:679:ARG:HD2	1:D:865:GLU:HG2	1.70	0.74
1:F:825:CYS:SG	1:F:828:THR:HG21	2.28	0.74
1:G:817:ARG:H	1:G:817:ARG:NE	1.83	0.74
1:G:900:LEU:HD23	1:H:13:MET:HG3	1.69	0.74
1:J:261:LEU:HB2	1:L:813:ARG:HH12	1.52	0.74
1:J:679:ARG:HD2	1:J:865:GLU:HG2	1.70	0.74
1:L:825:CYS:SG	1:L:828:THR:HG21	2.28	0.74
2:M:417:VAL:HG22	2:M:418:ARG:H	1.51	0.74
3:N:35:VAL:HG12	3:N:67:GLU:OE2	1.86	0.74
3:N:75:LEU:HG	3:N:76:VAL:HG23	1.70	0.74
1:D:57:THR:HG21	1:F:836:SER:HB3	1.70	0.74
1:D:900:LEU:HD23	1:E:13:MET:HG3	1.68	0.74
1:E:470:ILE:HD12	1:E:793:ARG:NH1	2.02	0.74
1:G:679:ARG:HD2	1:G:865:GLU:HG2	1.70	0.74
1:H:799:HIS:CE1	1:I:132:ASN:HD21	2.05	0.74
1:J:799:HIS:HE1	1:K:148:ALA:HB1	1.51	0.74
1:J:900:LEU:HD23	1:K:13:MET:HG3	1.69	0.74
1:K:782:ARG:O	1:K:803:GLN:HB2	1.87	0.74
1:K:799:HIS:CE1	1:L:132:ASN:HD21	2.05	0.74
3:N:90:LEU:HD22	3:P:90:LEU:CD2	0.46	0.74
1:B:825:CYS:SG	1:B:828:THR:HG21	2.27	0.74
1:E:309:GLY:HA3	1:G:654:PRO:CG	2.18	0.74
1:F:476:ILE:HA	1:F:480:VAL:HG11	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:283:SER:HA	1:K:191:TRP:NE1	2.03	0.74
1:K:825:CYS:SG	1:K:828:THR:HG21	2.27	0.74
1:L:782:ARG:O	1:L:803:GLN:HB2	1.87	0.74
3:Q:35:VAL:HG12	3:Q:67:GLU:OE2	1.86	0.74
4:R:194:PRO:HA	4:R:197:TYR:CE2	2.22	0.74
1:G:133:THR:HG21	1:G:212:GLN:HG3	1.70	0.74
1:G:743:LEU:HD21	1:H:351:PHE:HB2	1.70	0.74
1:G:856:ALA:HB2	4:R:11:TRP:O	1.86	0.74
1:H:641:THR:HG22	1:H:642:ARG:N	1.99	0.74
1:J:111:ALA:HB1	1:L:812:PRO:HD3	1.69	0.74
1:J:133:THR:HG21	1:J:212:GLN:HG3	1.70	0.74
3:P:75:LEU:HG	3:P:76:VAL:HG23	1.70	0.74
1:E:505:LEU:HD22	1:E:556:GLN:HE21	1.53	0.73
1:F:817:ARG:HE	1:F:817:ARG:N	1.81	0.73
1:J:242:ARG:NH1	1:K:394:HIS:HB3	2.03	0.73
1:J:836:SER:HB3	1:K:57:THR:HG21	1.68	0.73
3:P:72:TYR:O	3:P:73:MET:HG3	1.88	0.73
1:B:782:ARG:O	1:B:803:GLN:HB2	1.87	0.73
1:C:641:THR:HG22	1:C:642:ARG:N	2.03	0.73
1:C:716:VAL:CG1	1:C:723:LYS:HG2	2.18	0.73
1:D:784:THR:HG22	1:D:787:TYR:HB2	1.69	0.73
1:E:825:CYS:SG	1:E:828:THR:HG21	2.27	0.73
1:F:782:ARG:O	1:F:803:GLN:HB2	1.87	0.73
1:H:782:ARG:O	1:H:803:GLN:HB2	1.87	0.73
1:I:641:THR:HG22	1:I:642:ARG:N	2.03	0.73
3:N:97:LEU:CB	3:P:97:LEU:HD21	2.15	0.73
3:O:77:GLU:OE2	3:O:77:GLU:N	2.21	0.73
1:A:836:SER:HB3	1:B:57:THR:HG21	1.68	0.73
1:B:81:LYS:NZ	1:J:658:TYR:CD2	2.49	0.73
1:D:261:LEU:HB2	1:F:813:ARG:HH12	1.52	0.73
1:D:412:ASN:ND2	1:F:146:THR:H	1.86	0.73
1:H:283:SER:HA	1:I:191:TRP:NE1	2.03	0.73
1:A:78:TYR:OH	2:M:79:GLN:CD	2.26	0.73
1:A:261:LEU:HB2	1:C:813:ARG:HH12	1.52	0.73
1:A:283:SER:HA	1:B:191:TRP:NE1	2.02	0.73
1:A:900:LEU:HD23	1:B:13:MET:HG3	1.69	0.73
1:D:111:ALA:HB1	1:F:812:PRO:HD3	1.70	0.73
1:D:641:THR:HG22	1:D:642:ARG:N	2.00	0.73
1:K:505:LEU:HD22	1:K:556:GLN:HE21	1.53	0.73
2:M:303:GLU:HG3	2:M:305:PRO:HD2	1.68	0.73
3:N:72:TYR:O	3:N:73:MET:HG3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:75:LEU:HG	3:O:76:VAL:HG23	1.70	0.73
3:Q:72:TYR:O	3:Q:73:MET:HG3	1.88	0.73
1:A:784:THR:HG22	1:A:787:TYR:HB2	1.69	0.73
1:A:825:CYS:SG	1:A:828:THR:HG21	2.29	0.73
1:B:470:ILE:HD12	1:B:793:ARG:NH1	2.02	0.73
1:G:242:ARG:NH1	1:H:394:HIS:HB3	2.03	0.73
1:G:283:SER:HA	1:H:191:TRP:NE1	2.02	0.73
1:I:817:ARG:HE	1:I:817:ARG:N	1.81	0.73
1:I:825:CYS:SG	1:I:828:THR:HG21	2.28	0.73
1:L:716:VAL:CG1	1:L:723:LYS:HG2	2.18	0.73
3:P:20:SER:OG	3:P:21:GLY:N	2.14	0.73
1:J:743:LEU:HD21	1:K:351:PHE:HB2	1.70	0.73
2:M:107:LEU:HD23	2:M:113:TRP:CD1	2.24	0.73
3:N:20:SER:OG	3:N:21:GLY:N	2.14	0.73
3:O:72:TYR:O	3:O:73:MET:HG3	1.88	0.73
1:A:679:ARG:HD2	1:A:865:GLU:HG2	1.70	0.73
1:D:133:THR:HG21	1:D:212:GLN:HG3	1.70	0.73
1:D:810:TRP:HZ2	1:E:264:ASP:HB3	1.53	0.73
1:D:814:HIS:ND1	1:E:516:ARG:HB3	2.04	0.73
1:F:505:LEU:HD22	1:F:556:GLN:HE21	1.52	0.73
1:G:825:CYS:SG	1:G:828:THR:HG21	2.29	0.73
3:O:15:ARG:CG	3:O:15:ARG:NH1	2.45	0.73
3:Q:77:GLU:CD	3:Q:77:GLU:N	2.42	0.73
1:A:415:GLY:O	1:C:149:GLN:HG3	1.89	0.73
1:B:909:ALA:HB3	1:J:544:GLU:OE1	1.85	0.73
1:C:825:CYS:SG	1:C:828:THR:HG21	2.28	0.73
1:G:191:TRP:NE1	1:I:283:SER:HA	2.04	0.73
1:H:817:ARG:HE	1:H:817:ARG:N	1.80	0.73
1:J:810:TRP:HZ2	1:K:264:ASP:HB3	1.53	0.73
2:M:193:GLU:OE2	2:M:297:ARG:HA	1.89	0.73
3:O:75:LEU:CG	3:O:76:VAL:N	2.26	0.73
3:P:77:GLU:N	3:P:77:GLU:CD	2.42	0.73
1:D:825:CYS:SG	1:D:828:THR:HG21	2.29	0.73
1:E:59:GLU:CB	1:J:60:ARG:HD2	2.18	0.73
1:E:782:ARG:O	1:E:803:GLN:HB2	1.87	0.73
1:F:679:ARG:HD2	1:F:865:GLU:HG2	1.68	0.73
1:G:814:HIS:ND1	1:H:516:ARG:HB3	2.04	0.73
1:H:821:ARG:O	3:Q:47:GLU:CB	2.36	0.73
1:J:784:THR:HG22	1:J:787:TYR:HB2	1.69	0.73
3:N:34:GLY:CA	3:N:64:ARG:CD	2.63	0.73
3:O:7:ILE:O	3:O:7:ILE:HG12	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:7:ILE:O	3:P:7:ILE:HG12	1.89	0.73
1:A:552:ASN:ND2	1:A:564:ARG:HB2	2.04	0.73
1:B:552:ASN:HD22	1:B:564:ARG:HE	1.37	0.73
1:D:13:MET:HG3	1:F:900:LEU:HD23	1.71	0.73
1:E:139:ASN:OD1	1:E:140:ASN:N	2.22	0.73
1:J:412:ASN:ND2	1:L:146:THR:H	1.87	0.73
1:J:825:CYS:SG	1:J:828:THR:HG21	2.29	0.73
3:N:104:LEU:CD2	3:P:104:LEU:CD2	2.67	0.73
1:A:13:MET:HG3	1:C:900:LEU:HD23	1.71	0.72
1:A:191:TRP:NE1	1:C:283:SER:HA	2.04	0.72
3:N:90:LEU:CD1	3:P:90:LEU:HD21	2.17	0.72
3:O:34:GLY:CA	3:O:64:ARG:CD	2.63	0.72
1:A:242:ARG:HG3	1:A:244:GLY:H	1.54	0.72
1:E:283:SER:HA	1:F:191:TRP:NE1	2.03	0.72
1:F:716:VAL:CG1	1:F:723:LYS:HG2	2.18	0.72
1:G:415:GLY:O	1:I:149:GLN:HG3	1.89	0.72
1:G:641:THR:HG22	1:G:642:ARG:N	2.00	0.72
1:G:810:TRP:HZ2	1:H:264:ASP:HB3	1.53	0.72
1:H:505:LEU:HD22	1:H:556:GLN:HE21	1.53	0.72
1:H:552:ASN:HD22	1:H:564:ARG:HE	1.37	0.72
1:H:710:ASP:OD1	3:Q:52:GLU:CD	2.28	0.72
1:H:799:HIS:HD2	1:H:800:PRO:HD2	1.54	0.72
1:I:133:THR:HG21	1:I:212:GLN:HG3	1.71	0.72
1:K:77:GLN:HE22	3:P:52:GLU:CA	1.97	0.72
1:K:283:SER:HA	1:L:191:TRP:NE1	2.03	0.72
1:L:767:ASN:HB3	1:L:770:THR:HG23	1.71	0.72
2:M:382:VAL:HG12	2:M:429:GLU:O	1.88	0.72
1:A:57:THR:HG21	1:C:836:SER:HB3	1.70	0.72
1:B:283:SER:HA	1:C:191:TRP:NE1	2.03	0.72
1:D:242:ARG:NH1	1:E:394:HIS:HB3	2.03	0.72
1:D:552:ASN:ND2	1:D:564:ARG:HB2	2.04	0.72
1:L:139:ASN:OD1	1:L:140:ASN:N	2.23	0.72
2:M:143:ALA:HB3	2:M:151:GLN:HG3	1.72	0.72
2:M:209:ASP:OD1	2:M:211:GLN:HG2	1.89	0.72
3:P:77:GLU:OE2	3:P:77:GLU:N	2.21	0.72
3:Q:7:ILE:O	3:Q:7:ILE:HG12	1.89	0.72
1:A:814:HIS:ND1	1:B:516:ARG:HB3	2.04	0.72
1:B:309:GLY:CA	1:J:654:PRO:HD2	2.18	0.72
1:C:170:ARG:HG2	1:C:171:GLN:H	1.54	0.72
1:D:191:TRP:NE1	1:F:283:SER:HA	2.04	0.72
1:E:170:ARG:HG2	1:E:171:GLN:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:552:ASN:HD22	1:E:564:ARG:HE	1.37	0.72
1:G:9:GLN:HE21	1:I:900:LEU:HD22	1.55	0.72
1:G:863:THR:OG1	1:L:909:ALA:CB	2.37	0.72
1:I:139:ASN:OD1	1:I:140:ASN:N	2.23	0.72
1:J:57:THR:HG21	1:L:836:SER:HB3	1.70	0.72
3:N:77:GLU:OE2	3:N:77:GLU:N	2.21	0.72
3:N:104:LEU:HD22	3:P:104:LEU:HD21	1.70	0.72
1:B:505:LEU:HD22	1:B:556:GLN:HE21	1.54	0.72
1:D:139:ASN:OD1	1:D:140:ASN:N	2.23	0.72
1:G:139:ASN:OD1	1:G:140:ASN:N	2.23	0.72
1:G:412:ASN:ND2	1:I:146:THR:H	1.86	0.72
1:G:686:ASP:OD1	4:R:15:PRO:HD2	1.89	0.72
1:I:767:ASN:HB3	1:I:770:THR:HG23	1.71	0.72
1:L:799:HIS:HD2	1:L:800:PRO:HD2	1.55	0.72
1:A:379:ASN:OD1	1:A:426:LEU:HB2	1.90	0.72
1:B:139:ASN:OD1	1:B:140:ASN:N	2.22	0.72
1:C:767:ASN:HB3	1:C:770:THR:HG23	1.71	0.72
1:D:242:ARG:HG3	1:D:244:GLY:H	1.54	0.72
1:D:415:GLY:O	1:F:149:GLN:HG3	1.89	0.72
1:E:799:HIS:HD2	1:E:800:PRO:HD2	1.54	0.72
1:K:170:ARG:HG2	1:K:171:GLN:H	1.54	0.72
1:L:170:ARG:HG2	1:L:171:GLN:H	1.54	0.72
3:O:77:GLU:N	3:O:80:LEU:HD12	2.05	0.72
3:Q:6:ARG:HG2	3:Q:6:ARG:O	1.89	0.72
1:A:242:ARG:NH1	1:B:394:HIS:HB3	2.03	0.72
1:B:149:GLN:HG3	1:C:415:GLY:O	1.89	0.72
1:F:170:ARG:HG2	1:F:171:GLN:H	1.54	0.72
1:F:767:ASN:HB3	1:F:770:THR:HG23	1.71	0.72
1:G:552:ASN:ND2	1:G:564:ARG:HB2	2.04	0.72
1:I:170:ARG:HG2	1:I:171:GLN:H	1.54	0.72
1:J:13:MET:HG3	1:L:900:LEU:HD23	1.71	0.72
1:J:242:ARG:HG3	1:J:244:GLY:H	1.54	0.72
1:E:309:GLY:O	1:G:654:PRO:HD2	1.89	0.72
1:H:170:ARG:HG2	1:H:171:GLN:H	1.54	0.72
1:J:9:GLN:HE21	1:L:900:LEU:HD22	1.54	0.72
1:J:415:GLY:O	1:L:149:GLN:HG3	1.89	0.72
1:K:794:ALA:HB1	1:K:795:PRO:CD	2.19	0.72
1:A:412:ASN:ND2	1:C:146:THR:H	1.86	0.72
1:A:652:GLY:C	2:M:75:THR:O	2.29	0.72
1:B:817:ARG:HE	1:B:817:ARG:N	1.80	0.72
1:C:799:HIS:HD2	1:C:800:PRO:HD2	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:630:ARG:CZ	1:G:71:VAL:HG21	2.19	0.72
1:H:139:ASN:OD1	1:H:140:ASN:N	2.22	0.72
1:J:191:TRP:NE1	1:L:283:SER:HA	2.04	0.72
1:K:149:GLN:HG3	1:L:415:GLY:O	1.89	0.72
1:K:812:PRO:HD3	1:L:111:ALA:HB1	1.72	0.72
3:N:89:LEU:HD12	3:O:87:MET:CE	2.20	0.72
3:N:90:LEU:CD1	3:O:90:LEU:HD21	2.19	0.72
1:G:627:ILE:N	1:L:909:ALA:C	2.42	0.72
1:H:552:ASN:ND2	1:H:564:ARG:HB2	2.05	0.72
1:H:821:ARG:HB2	3:Q:47:GLU:HB3	1.71	0.72
3:O:69:GLN:HE21	3:P:4:GLU:N	1.88	0.72
3:Q:25:ASP:CA	3:Q:38:PRO:CB	2.60	0.72
3:Q:80:LEU:O	3:Q:84:LYS:HG3	1.90	0.72
1:D:9:GLN:HE21	1:F:900:LEU:HD22	1.54	0.71
1:D:743:LEU:HD21	1:E:351:PHE:HB2	1.70	0.71
1:D:813:ARG:NH2	1:E:263:PRO:HD3	1.99	0.71
1:E:909:ALA:HA	1:G:83:ARG:NH1	2.03	0.71
1:G:242:ARG:HG3	1:G:244:GLY:H	1.54	0.71
1:H:794:ALA:HB1	1:H:795:PRO:CD	2.19	0.71
1:J:412:ASN:HD22	1:L:146:THR:H	1.34	0.71
1:K:139:ASN:OD1	1:K:140:ASN:N	2.22	0.71
3:Q:77:GLU:N	3:Q:80:LEU:HD12	2.05	0.71
1:J:139:ASN:OD1	1:J:140:ASN:N	2.23	0.71
3:O:78:ASP:O	3:O:82:GLY:N	2.21	0.71
3:Q:77:GLU:OE2	3:Q:77:GLU:N	2.22	0.71
4:R:188:ASN:HD22	4:R:191:SER:HB3	1.55	0.71
1:A:810:TRP:HZ2	1:B:264:ASP:HB3	1.53	0.71
1:B:799:HIS:HD2	1:B:800:PRO:HD2	1.54	0.71
1:C:139:ASN:OD1	1:C:140:ASN:N	2.23	0.71
1:G:111:ALA:HB1	1:I:812:PRO:HD3	1.69	0.71
1:J:814:HIS:ND1	1:K:516:ARG:HB3	2.04	0.71
1:K:799:HIS:HD2	1:K:800:PRO:HD2	1.54	0.71
3:O:80:LEU:O	3:O:84:LYS:HG3	1.90	0.71
1:A:170:ARG:HG2	1:A:171:GLN:H	1.56	0.71
1:B:812:PRO:HD3	1:C:111:ALA:HB1	1.72	0.71
1:L:191:TRP:CZ3	1:L:385:SER:HA	2.26	0.71
2:M:469:LEU:HD12	2:M:470:GLY:H	1.56	0.71
3:Q:77:GLU:CA	3:Q:80:LEU:HB2	2.19	0.71
1:A:743:LEU:HD21	1:B:351:PHE:HB2	1.70	0.71
1:B:794:ALA:HB1	1:B:795:PRO:CD	2.19	0.71
1:E:909:ALA:HB1	1:G:544:GLU:HB2	1.66	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:191:TRP:CZ3	1:F:385:SER:HA	2.26	0.71
2:M:139:VAL:HG13	2:M:155:PHE:CZ	2.25	0.71
3:N:75:LEU:CG	3:N:76:VAL:N	2.26	0.71
1:A:133:THR:HG21	1:A:212:GLN:HG3	1.70	0.71
1:B:552:ASN:ND2	1:B:564:ARG:HB2	2.05	0.71
1:C:133:THR:HG21	1:C:212:GLN:HG3	1.71	0.71
1:E:149:GLN:HG3	1:F:415:GLY:O	1.89	0.71
1:E:767:ASN:HB3	1:E:770:THR:HG23	1.73	0.71
1:G:13:MET:HG3	1:I:900:LEU:HD23	1.71	0.71
1:H:149:GLN:HG3	1:I:415:GLY:O	1.89	0.71
1:J:552:ASN:ND2	1:J:564:ARG:HB2	2.04	0.71
2:M:66:ILE:CA	2:M:469:LEU:HD13	2.19	0.71
3:Q:78:ASP:O	3:Q:82:GLY:N	2.21	0.71
1:D:379:ASN:OD1	1:D:426:LEU:HB2	1.90	0.71
1:I:799:HIS:HD2	1:I:800:PRO:HD2	1.55	0.71
1:J:813:ARG:NH2	1:K:263:PRO:HD3	1.99	0.71
3:N:77:GLU:N	3:N:80:LEU:HD12	2.05	0.71
1:E:794:ALA:HB1	1:E:795:PRO:CD	2.19	0.71
1:G:170:ARG:HG2	1:G:171:GLN:H	1.56	0.71
3:N:104:LEU:HD21	3:O:104:LEU:HB3	1.73	0.71
1:B:133:THR:HG21	1:B:212:GLN:HG3	1.73	0.71
1:G:472:VAL:HG23	1:G:792:CYS:SG	2.31	0.71
1:G:794:ALA:HB1	1:G:795:PRO:CD	2.21	0.71
1:J:8:PRO:CD	4:R:18:GLY:HA3	2.20	0.71
1:K:552:ASN:ND2	1:K:564:ARG:HB2	2.05	0.71
3:O:6:ARG:HG2	3:O:6:ARG:O	1.89	0.71
3:Q:75:LEU:CG	3:Q:76:VAL:N	2.26	0.71
1:J:379:ASN:OD1	1:J:426:LEU:HB2	1.90	0.71
1:J:794:ALA:HB1	1:J:795:PRO:CD	2.21	0.71
3:O:24:GLN:HE22	3:P:8:TYR:HD1	1.09	0.71
4:R:59:SER:HA	4:R:182:VAL:HG21	1.70	0.71
1:B:170:ARG:HG2	1:B:171:GLN:H	1.54	0.70
1:E:888:HIS:HE2	4:R:30:ARG:NH2	1.86	0.70
1:E:909:ALA:HA	1:G:83:ARG:HH11	1.56	0.70
1:F:799:HIS:HD2	1:F:800:PRO:HD2	1.55	0.70
1:G:149:GLN:HG3	1:H:415:GLY:O	1.91	0.70
1:J:149:GLN:HG3	1:K:415:GLY:O	1.91	0.70
1:J:426:LEU:HD21	1:K:426:LEU:HD21	1.73	0.70
2:M:277:ASP:CB	2:M:285:LYS:HE2	2.20	0.70
3:O:20:SER:OG	3:O:21:GLY:N	2.14	0.70
1:A:139:ASN:OD1	1:A:140:ASN:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:817:ARG:H	1:A:817:ARG:NE	1.83	0.70
1:D:472:VAL:HG23	1:D:792:CYS:SG	2.31	0.70
1:E:133:THR:HG21	1:E:212:GLN:HG3	1.73	0.70
1:I:794:ALA:HB1	1:I:795:PRO:CD	2.22	0.70
1:J:170:ARG:HG2	1:J:171:GLN:H	1.56	0.70
1:K:133:THR:HG21	1:K:212:GLN:HG3	1.73	0.70
3:N:7:ILE:O	3:N:7:ILE:HG12	1.89	0.70
3:P:6:ARG:O	3:P:6:ARG:HG2	1.89	0.70
4:R:175:ARG:HB2	4:R:175:ARG:HH11	1.55	0.70
1:A:149:GLN:HG3	1:B:415:GLY:O	1.91	0.70
1:A:794:ALA:HB1	1:A:795:PRO:CD	2.21	0.70
1:G:379:ASN:OD1	1:G:426:LEU:HB2	1.90	0.70
1:J:46:ARG:HH11	1:J:46:ARG:HB2	1.56	0.70
1:A:909:ALA:HB1	2:M:92:ASN:HB3	1.72	0.70
1:D:794:ALA:HB1	1:D:795:PRO:CD	2.21	0.70
1:E:812:PRO:HD3	1:F:111:ALA:HB1	1.72	0.70
1:F:133:THR:HG21	1:F:212:GLN:HG3	1.71	0.70
1:H:133:THR:HG21	1:H:212:GLN:HG3	1.73	0.70
1:I:121:TYR:HB2	1:I:217:GLY:HA2	1.74	0.70
1:I:191:TRP:CZ3	1:I:385:SER:HA	2.26	0.70
3:P:77:GLU:N	3:P:80:LEU:HD12	2.05	0.70
1:A:9:GLN:HE21	1:C:900:LEU:HD22	1.55	0.70
1:G:426:LEU:HD21	1:H:426:LEU:HD21	1.73	0.70
1:G:857:ALA:O	4:R:12:THR:CB	2.39	0.70
3:P:80:LEU:O	3:P:84:LYS:HG3	1.90	0.70
1:B:81:LYS:NZ	1:J:658:TYR:HE2	1.83	0.70
1:C:552:ASN:HD22	1:C:564:ARG:HE	1.40	0.70
1:F:552:ASN:HD22	1:F:564:ARG:HE	1.40	0.70
1:I:716:VAL:CG1	1:I:723:LYS:HG2	2.18	0.70
3:N:6:ARG:O	3:N:6:ARG:HG2	1.89	0.70
3:N:80:LEU:O	3:N:84:LYS:HG3	1.90	0.70
1:B:767:ASN:HB3	1:B:770:THR:HG23	1.72	0.70
1:I:552:ASN:HD22	1:I:564:ARG:HE	1.40	0.70
1:K:767:ASN:HB3	1:K:770:THR:HG23	1.73	0.70
2:M:348:ILE:HG23	2:M:455:THR:O	1.92	0.70
1:A:472:VAL:HG23	1:A:792:CYS:SG	2.31	0.70
1:D:817:ARG:H	1:D:817:ARG:NE	1.83	0.70
1:E:891:HIS:NE2	4:R:24:SER:HB3	2.07	0.70
1:G:46:ARG:HH11	1:G:46:ARG:HB2	1.56	0.70
1:I:242:ARG:HG3	1:I:244:GLY:H	1.57	0.70
1:J:472:VAL:HG23	1:J:792:CYS:SG	2.31	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:33:TRP:HE1	4:R:41:ILE:HG12	1.56	0.70
1:H:821:ARG:O	3:Q:47:GLU:N	2.24	0.70
1:K:820:GLU:HG3	3:O:46:THR:HG21	1.69	0.70
3:N:90:LEU:CD1	3:P:90:LEU:CD2	2.69	0.70
1:A:789:PHE:HD1	1:A:791:PHE:H	1.39	0.70
1:B:808:PRO:HG2	1:B:813:ARG:CD	2.22	0.70
1:B:810:TRP:CZ2	1:C:264:ASP:HB3	2.27	0.70
1:C:121:TYR:HB2	1:C:217:GLY:HA2	1.73	0.70
1:C:191:TRP:CZ3	1:C:385:SER:HA	2.26	0.70
1:E:552:ASN:ND2	1:E:564:ARG:HB2	2.05	0.70
1:G:470:ILE:HD12	1:G:793:ARG:NH1	2.07	0.70
1:H:821:ARG:N	3:Q:47:GLU:O	2.25	0.70
1:K:810:TRP:CZ2	1:L:264:ASP:HB3	2.27	0.70
1:L:794:ALA:HB1	1:L:795:PRO:CD	2.22	0.70
2:M:408:ASN:HD21	2:M:411:PRO:HB3	1.55	0.70
3:N:77:GLU:N	3:N:77:GLU:CD	2.42	0.70
3:O:89:LEU:HD12	3:P:87:MET:HE1	1.73	0.70
1:D:470:ILE:HD12	1:D:793:ARG:NH1	2.07	0.69
1:H:812:PRO:HD3	1:I:111:ALA:HB1	1.72	0.69
1:L:133:THR:HG21	1:L:212:GLN:HG3	1.71	0.69
1:L:641:THR:HG22	1:L:642:ARG:N	2.03	0.69
3:P:78:ASP:O	3:P:82:GLY:N	2.21	0.69
1:D:170:ARG:HG2	1:D:171:GLN:H	1.56	0.69
1:F:231:LYS:HG3	1:F:258:ALA:HA	1.74	0.69
1:F:470:ILE:HD12	1:F:793:ARG:NH1	2.07	0.69
1:G:634:ALA:HB1	1:G:848:GLY:HA2	1.74	0.69
1:J:470:ILE:HD12	1:J:793:ARG:NH1	2.07	0.69
1:L:470:ILE:HD12	1:L:793:ARG:NH1	2.07	0.69
1:A:209:ASN:N	1:A:210:PRO:HD3	2.08	0.69
1:B:310:GLY:HA2	1:J:655:PHE:HB3	1.74	0.69
1:B:813:ARG:HH12	1:C:261:LEU:HB2	1.58	0.69
1:B:859:ALA:CB	1:D:630:ARG:HH21	1.68	0.69
1:D:149:GLN:HG3	1:E:415:GLY:O	1.91	0.69
1:E:813:ARG:HH12	1:F:261:LEU:HB2	1.58	0.69
1:F:794:ALA:HB1	1:F:795:PRO:CD	2.22	0.69
1:G:789:PHE:HD1	1:G:791:PHE:H	1.39	0.69
1:J:398:ARG:HB3	1:J:403:TRP:CZ2	2.28	0.69
1:K:813:ARG:HH12	1:L:261:LEU:HB2	1.58	0.69
1:D:789:PHE:HD1	1:D:791:PHE:H	1.39	0.69
1:E:209:ASN:N	1:E:210:PRO:HD3	2.08	0.69
1:I:401:GLN:HG2	1:I:404:GLN:HG2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:552:ASN:HD22	1:L:564:ARG:HE	1.40	0.69
1:A:398:ARG:HB3	1:A:403:TRP:CZ2	2.28	0.69
1:B:472:VAL:HG23	1:B:792:CYS:SG	2.33	0.69
1:D:426:LEU:HD21	1:E:426:LEU:HD21	1.73	0.69
1:F:209:ASN:N	1:F:210:PRO:HD3	2.08	0.69
1:F:472:VAL:HG23	1:F:792:CYS:SG	2.33	0.69
1:G:632:TRP:NE1	4:R:29:THR:N	2.36	0.69
1:K:552:ASN:HD22	1:K:564:ARG:HE	1.37	0.69
1:L:121:TYR:HB2	1:L:217:GLY:HA2	1.73	0.69
1:L:401:GLN:HG2	1:L:404:GLN:HG2	1.74	0.69
2:M:164:PHE:CB	2:M:427:ILE:HD11	2.22	0.69
4:R:206:ASN:H	4:R:206:ASN:HD22	1.38	0.69
1:A:517:PHE:HB2	1:C:817:ARG:HD3	1.75	0.69
1:A:907:GLY:N	2:M:103:HIS:CE1	2.47	0.69
1:C:470:ILE:HD12	1:C:793:ARG:NH1	2.07	0.69
1:D:46:ARG:HB2	1:D:46:ARG:HH11	1.56	0.69
1:H:9:GLN:HE22	4:R:31:MET:HG3	1.53	0.69
1:H:133:THR:O	1:H:147:ILE:HG23	1.93	0.69
1:K:121:TYR:HB2	1:K:217:GLY:HA2	1.75	0.69
2:M:303:GLU:CD	2:M:309:GLU:HG3	2.13	0.69
3:N:104:LEU:HD11	3:O:104:LEU:HD11	0.76	0.69
1:A:46:ARG:HB2	1:A:46:ARG:HH11	1.56	0.69
1:A:552:ASN:HD22	1:A:564:ARG:HE	1.41	0.69
1:A:909:ALA:C	2:M:92:ASN:ND2	2.46	0.69
1:B:209:ASN:N	1:B:210:PRO:HD3	2.08	0.69
1:C:209:ASN:N	1:C:210:PRO:HD3	2.08	0.69
1:E:652:GLY:CA	1:G:78:TYR:OH	2.41	0.69
1:E:789:PHE:HD1	1:E:791:PHE:H	1.40	0.69
1:E:810:TRP:CZ2	1:F:264:ASP:HB3	2.27	0.69
1:F:242:ARG:HG3	1:F:244:GLY:H	1.57	0.69
1:G:686:ASP:CG	4:R:15:PRO:CD	2.61	0.69
1:I:209:ASN:N	1:I:210:PRO:HD3	2.08	0.69
1:K:565:VAL:HG13	3:P:64:ARG:CZ	2.22	0.69
1:L:231:LYS:HG3	1:L:258:ALA:HA	1.75	0.69
3:N:40:ASN:CG	3:N:72:TYR:OH	2.31	0.69
3:N:87:MET:HG3	3:P:86:ARG:HE	1.56	0.69
3:O:30:ASN:O	3:O:33:GLY:N	2.26	0.69
3:P:9:VAL:HG21	3:P:11:TYR:OH	1.93	0.69
3:Q:40:ASN:CG	3:Q:72:TYR:OH	2.31	0.69
1:A:516:ARG:HB3	1:C:814:HIS:ND1	2.08	0.69
1:C:231:LYS:HG3	1:C:258:ALA:HA	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:472:VAL:HG23	1:C:792:CYS:SG	2.33	0.69
1:D:398:ARG:HB3	1:D:403:TRP:CZ2	2.28	0.69
1:E:60:ARG:HG2	1:J:60:ARG:CA	2.21	0.69
1:E:857:ALA:HB3	1:G:318:GLN:HB3	1.73	0.69
1:F:121:TYR:HB2	1:F:217:GLY:HA2	1.73	0.69
1:H:789:PHE:HD1	1:H:791:PHE:H	1.40	0.69
1:J:209:ASN:N	1:J:210:PRO:HD3	2.08	0.69
1:K:133:THR:O	1:K:147:ILE:HG23	1.93	0.69
1:K:658:TYR:OH	3:P:39:PRO:CA	2.41	0.69
1:K:808:PRO:HG2	1:K:813:ARG:CD	2.21	0.69
1:L:472:VAL:HG23	1:L:792:CYS:SG	2.33	0.69
2:M:212:THR:HG21	2:M:276:MET:HE1	1.75	0.69
3:N:11:TYR:CB	3:P:11:TYR:HB2	2.21	0.69
3:N:65:ARG:C	3:N:65:ARG:HH11	1.96	0.69
3:P:77:GLU:CA	3:P:80:LEU:HB2	2.19	0.69
3:Q:15:ARG:CG	3:Q:15:ARG:NH1	2.45	0.69
1:A:767:ASN:HB3	1:A:770:THR:HG23	1.74	0.69
1:D:634:ALA:HB1	1:D:848:GLY:HA2	1.74	0.69
1:D:810:TRP:CZ2	1:E:264:ASP:HB3	2.28	0.69
1:D:856:ALA:CB	1:J:892:ARG:HH21	2.05	0.69
1:H:209:ASN:N	1:H:210:PRO:HD3	2.08	0.69
1:H:810:TRP:CZ2	1:I:264:ASP:HB3	2.27	0.69
1:L:209:ASN:N	1:L:210:PRO:HD3	2.08	0.69
1:L:242:ARG:HG3	1:L:244:GLY:H	1.57	0.69
3:N:90:LEU:CD2	3:O:90:LEU:CB	2.71	0.69
3:P:40:ASN:CG	3:P:72:TYR:OH	2.31	0.69
1:C:794:ALA:HB1	1:C:795:PRO:CD	2.22	0.69
1:E:272:PRO:HG2	1:E:276:ARG:HA	1.75	0.69
1:G:812:PRO:HD3	1:H:111:ALA:HB1	1.75	0.69
1:G:857:ALA:HB3	4:R:12:THR:CG2	2.22	0.69
1:H:767:ASN:HB3	1:H:770:THR:HG23	1.73	0.69
1:H:808:PRO:HG2	1:H:813:ARG:CD	2.22	0.69
1:I:470:ILE:HD12	1:I:793:ARG:NH1	2.07	0.69
1:J:516:ARG:HB3	1:L:814:HIS:ND1	2.08	0.69
1:K:472:VAL:HG23	1:K:792:CYS:SG	2.33	0.69
3:N:37:LEU:HD12	3:N:38:PRO:HD2	1.75	0.69
3:Q:9:VAL:HG21	3:Q:11:TYR:OH	1.93	0.69
1:B:689:VAL:HG13	1:D:906:ALA:CB	2.22	0.68
1:D:209:ASN:N	1:D:210:PRO:HD3	2.08	0.68
1:E:472:VAL:HG23	1:E:792:CYS:SG	2.32	0.68
1:F:552:ASN:ND2	1:F:564:ARG:HB2	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:398:ARG:HB3	1:G:403:TRP:CZ2	2.28	0.68
1:I:472:VAL:HG23	1:I:792:CYS:SG	2.33	0.68
1:I:789:PHE:HD1	1:I:791:PHE:H	1.41	0.68
1:J:103:ILE:HG23	1:J:572:ILE:HD13	1.76	0.68
1:J:634:ALA:HB1	1:J:848:GLY:HA2	1.74	0.68
3:O:77:GLU:N	3:O:77:GLU:CD	2.42	0.68
3:Q:74:ILE:HA	3:Q:78:ASP:CB	2.23	0.68
1:A:351:PHE:HB2	1:C:743:LEU:HD21	1.75	0.68
1:A:812:PRO:HD3	1:B:111:ALA:HB1	1.75	0.68
1:B:121:TYR:HB2	1:B:217:GLY:HA2	1.75	0.68
1:B:133:THR:O	1:B:147:ILE:HG23	1.93	0.68
1:D:307:ASN:HA	1:D:327:ASP:OD1	1.94	0.68
1:D:347:ARG:HH21	1:D:356:GLN:HG3	1.58	0.68
1:D:767:ASN:HB3	1:D:770:THR:HG23	1.74	0.68
1:F:139:ASN:OD1	1:F:140:ASN:N	2.23	0.68
1:F:470:ILE:HD12	1:F:793:ARG:HH11	1.58	0.68
1:G:264:ASP:HB3	1:I:810:TRP:CZ2	2.28	0.68
1:G:517:PHE:HB2	1:I:817:ARG:HD3	1.75	0.68
1:G:810:TRP:CZ2	1:H:264:ASP:HB3	2.28	0.68
1:I:231:LYS:HG3	1:I:258:ALA:HA	1.74	0.68
1:J:307:ASN:HA	1:J:327:ASP:OD1	1.93	0.68
1:J:351:PHE:HB2	1:L:743:LEU:HD21	1.75	0.68
1:J:767:ASN:HB3	1:J:770:THR:HG23	1.74	0.68
1:J:789:PHE:HD1	1:J:791:PHE:H	1.39	0.68
3:N:77:GLU:CA	3:N:80:LEU:HB2	2.19	0.68
3:O:37:LEU:HD12	3:O:38:PRO:HD2	1.75	0.68
3:O:65:ARG:HH11	3:O:65:ARG:C	1.97	0.68
3:P:14:ALA:O	3:P:15:ARG:CB	2.42	0.68
3:P:30:ASN:O	3:P:33:GLY:N	2.26	0.68
1:A:347:ARG:HH21	1:A:356:GLN:HG3	1.58	0.68
1:B:909:ALA:CB	1:J:544:GLU:CD	2.60	0.68
1:B:909:ALA:HB1	1:J:544:GLU:HB2	1.76	0.68
1:E:398:ARG:HB3	1:E:403:TRP:CZ2	2.29	0.68
1:H:398:ARG:HB3	1:H:403:TRP:CZ2	2.29	0.68
1:I:470:ILE:HD12	1:I:793:ARG:HH11	1.58	0.68
3:N:83:LEU:HD21	3:P:83:LEU:HD21	0.79	0.68
4:R:38:PRO:O	4:R:41:ILE:HG22	1.93	0.68
1:A:322:LEU:HD11	2:M:445:ARG:NH2	2.08	0.68
1:B:398:ARG:HB3	1:B:403:TRP:CZ2	2.29	0.68
1:E:808:PRO:HG2	1:E:813:ARG:CD	2.22	0.68
1:H:272:PRO:HG2	1:H:276:ARG:HA	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:379:ASN:OD1	1:H:426:LEU:HB2	1.94	0.68
3:N:14:ALA:O	3:N:15:ARG:CB	2.41	0.68
1:B:908:ASN:C	1:J:83:ARG:HH11	1.89	0.68
1:D:552:ASN:HD22	1:D:564:ARG:HE	1.41	0.68
1:G:103:ILE:HG23	1:G:572:ILE:HD13	1.76	0.68
1:G:552:ASN:HD22	1:G:564:ARG:HE	1.41	0.68
1:H:73:ARG:NH2	1:L:72:ASP:HB2	2.09	0.68
1:H:472:VAL:HG23	1:H:792:CYS:SG	2.33	0.68
1:J:264:ASP:HB3	1:L:810:TRP:HZ2	1.58	0.68
1:J:810:TRP:CZ2	1:K:264:ASP:HB3	2.28	0.68
1:K:209:ASN:N	1:K:210:PRO:HD3	2.08	0.68
1:L:789:PHE:HD1	1:L:791:PHE:H	1.41	0.68
2:M:155:PHE:CE1	2:M:180:LEU:HD22	2.28	0.68
2:M:245:ASN:ND2	2:M:260:PHE:CE2	2.62	0.68
3:N:78:ASP:O	3:N:82:GLY:N	2.21	0.68
3:O:9:VAL:HG21	3:O:11:TYR:OH	1.93	0.68
1:C:388:GLN:HG2	1:C:420:PRO:HG3	1.76	0.68
1:D:103:ILE:HG23	1:D:572:ILE:HD13	1.76	0.68
1:D:264:ASP:HB3	1:F:810:TRP:CZ2	2.28	0.68
1:E:379:ASN:OD1	1:E:426:LEU:HB2	1.94	0.68
1:F:388:GLN:HG2	1:F:420:PRO:HG3	1.76	0.68
1:G:209:ASN:N	1:G:210:PRO:HD3	2.08	0.68
1:J:264:ASP:HB3	1:L:810:TRP:CZ2	2.28	0.68
1:K:658:TYR:CZ	3:P:39:PRO:CG	2.76	0.68
3:N:30:ASN:O	3:N:33:GLY:N	2.26	0.68
3:P:74:ILE:HA	3:P:78:ASP:CB	2.23	0.68
3:Q:9:VAL:CG2	3:Q:11:TYR:CZ	2.77	0.68
1:A:264:ASP:HB3	1:C:810:TRP:CZ2	2.28	0.68
1:A:470:ILE:HD12	1:A:793:ARG:NH1	2.07	0.68
1:B:347:ARG:HH21	1:B:356:GLN:HG3	1.59	0.68
1:B:789:PHE:HD1	1:B:791:PHE:H	1.40	0.68
1:D:517:PHE:HB2	1:F:817:ARG:HD3	1.75	0.68
3:N:9:VAL:CG2	3:N:11:TYR:CZ	2.77	0.68
3:O:77:GLU:CA	3:O:80:LEU:HB2	2.19	0.68
3:P:34:GLY:CA	3:P:64:ARG:CD	2.63	0.68
3:Q:30:ASN:O	3:Q:33:GLY:N	2.26	0.68
1:A:264:ASP:HB3	1:C:810:TRP:HZ2	1.58	0.68
1:C:401:GLN:HG2	1:C:404:GLN:HG2	1.74	0.68
1:E:191:TRP:CZ3	1:E:385:SER:HA	2.29	0.68
1:H:121:TYR:HB2	1:H:217:GLY:HA2	1.75	0.68
1:H:191:TRP:CZ3	1:H:385:SER:HA	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:307:ASN:HA	1:H:327:ASP:OD1	1.94	0.68
1:K:789:PHE:HD1	1:K:791:PHE:H	1.40	0.68
2:M:166:GLU:OE2	2:M:170:ILE:HD11	1.94	0.68
2:M:293:ASP:HB2	2:M:294:PRO:HD2	1.76	0.68
3:N:90:LEU:CD1	3:P:90:LEU:CG	2.72	0.68
3:O:14:ALA:O	3:O:15:ARG:CB	2.41	0.68
1:A:191:TRP:CZ3	1:A:385:SER:HA	2.29	0.68
1:G:351:PHE:HB2	1:I:743:LEU:HD21	1.75	0.68
1:H:810:TRP:HZ2	1:I:264:ASP:HB3	1.59	0.68
3:P:65:ARG:HH11	3:P:65:ARG:C	1.96	0.68
1:A:103:ILE:HG23	1:A:572:ILE:HD13	1.76	0.68
1:A:426:LEU:HD21	1:B:426:LEU:HD21	1.73	0.68
1:B:152:TYR:HE1	1:B:186:LEU:HD13	1.59	0.68
1:B:307:ASN:HA	1:B:327:ASP:OD1	1.94	0.68
1:E:891:HIS:CD2	4:R:24:SER:HB3	2.29	0.68
1:F:401:GLN:HG2	1:F:404:GLN:HG2	1.74	0.68
1:G:347:ARG:HH21	1:G:356:GLN:HG3	1.58	0.68
1:H:484:THR:HG23	1:I:514:ASN:HB3	1.76	0.68
1:J:812:PRO:HD3	1:K:111:ALA:HB1	1.75	0.68
1:K:103:ILE:HG23	1:K:572:ILE:HD13	1.76	0.68
1:K:272:PRO:HG2	1:K:276:ARG:HA	1.75	0.68
1:K:379:ASN:OD1	1:K:426:LEU:HB2	1.94	0.68
3:O:9:VAL:CG2	3:O:11:TYR:CZ	2.77	0.68
3:O:40:ASN:CG	3:O:72:TYR:OH	2.31	0.68
3:O:74:ILE:HA	3:O:78:ASP:CB	2.23	0.68
1:A:107:LEU:HD13	1:A:570:VAL:HG12	1.76	0.67
1:A:810:TRP:CZ2	1:B:264:ASP:HB3	2.28	0.67
1:B:103:ILE:HG23	1:B:572:ILE:HD13	1.76	0.67
1:B:891:HIS:HB3	1:J:630:ARG:HH21	1.01	0.67
1:C:398:ARG:HB3	1:C:403:TRP:CZ2	2.29	0.67
1:D:817:ARG:HD3	1:E:517:PHE:HB2	1.75	0.67
1:E:109:ARG:HH22	1:E:512:LEU:HB2	1.57	0.67
1:H:743:LEU:HD21	1:I:351:PHE:HB2	1.76	0.67
1:K:191:TRP:CZ3	1:K:385:SER:HA	2.29	0.67
1:K:650:ALA:CB	3:P:20:SER:HB3	2.23	0.67
1:B:379:ASN:OD1	1:B:426:LEU:HB2	1.94	0.67
1:E:347:ARG:HH21	1:E:356:GLN:HG3	1.59	0.67
1:H:152:TYR:HE1	1:H:186:LEU:HD13	1.59	0.67
1:K:470:ILE:HD12	1:K:793:ARG:HH11	1.58	0.67
3:N:9:VAL:HG21	3:N:11:TYR:OH	1.93	0.67
3:N:90:LEU:CD2	3:P:90:LEU:HD21	0.39	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:75:LEU:HG	3:O:76:VAL:CG2	2.24	0.67
3:Q:75:LEU:HG	3:Q:76:VAL:CG2	2.24	0.67
1:A:307:ASN:HA	1:A:327:ASP:OD1	1.94	0.67
1:B:191:TRP:CZ3	1:B:385:SER:HA	2.29	0.67
1:C:242:ARG:HG3	1:C:244:GLY:H	1.57	0.67
1:F:307:ASN:HA	1:F:327:ASP:OD1	1.94	0.67
1:G:817:ARG:HD3	1:H:517:PHE:HB2	1.75	0.67
1:J:191:TRP:CZ3	1:J:385:SER:HA	2.30	0.67
1:J:817:ARG:HD3	1:K:517:PHE:HB2	1.75	0.67
1:K:152:TYR:HE1	1:K:186:LEU:HD13	1.59	0.67
1:K:347:ARG:HH21	1:K:356:GLN:HG3	1.59	0.67
1:L:398:ARG:HB3	1:L:403:TRP:CZ2	2.29	0.67
3:N:74:ILE:HA	3:N:78:ASP:CB	2.23	0.67
3:O:24:GLN:NE2	3:P:8:TYR:HE1	1.87	0.67
1:A:432:ARG:HD3	1:B:124:PHE:CZ	2.30	0.67
1:C:470:ILE:HD12	1:C:793:ARG:HH11	1.58	0.67
1:E:207:LEU:HB3	1:E:210:PRO:HG2	1.77	0.67
1:G:767:ASN:HB3	1:G:770:THR:HG23	1.74	0.67
1:I:808:PRO:HG2	1:I:813:ARG:CD	2.24	0.67
1:J:107:LEU:HD13	1:J:570:VAL:HG12	1.77	0.67
1:L:307:ASN:HA	1:L:327:ASP:OD1	1.94	0.67
2:M:62:LYS:HB3	2:M:64:TYR:CE1	2.28	0.67
2:M:469:LEU:HD12	2:M:470:GLY:N	2.10	0.67
3:Q:37:LEU:HD12	3:Q:38:PRO:HD2	1.75	0.67
1:A:388:GLN:HG2	1:A:420:PRO:HG3	1.77	0.67
1:C:307:ASN:HA	1:C:327:ASP:OD1	1.94	0.67
1:D:470:ILE:HD12	1:D:793:ARG:HH11	1.59	0.67
1:E:133:THR:O	1:E:147:ILE:HG23	1.93	0.67
1:G:107:LEU:HD13	1:G:570:VAL:HG12	1.77	0.67
1:J:517:PHE:HB2	1:L:817:ARG:HD3	1.75	0.67
1:L:552:ASN:ND2	1:L:564:ARG:HB2	2.09	0.67
3:N:90:LEU:HD21	3:O:90:LEU:CD2	0.78	0.67
1:B:309:GLY:C	1:J:654:PRO:HG2	2.15	0.67
1:F:202:ALA:HB3	1:F:251:THR:HG22	1.76	0.67
1:F:808:PRO:HG2	1:F:813:ARG:CD	2.24	0.67
1:G:808:PRO:HG2	1:G:813:ARG:CD	2.24	0.67
1:J:799:HIS:HD2	1:J:800:PRO:HD2	1.60	0.67
1:K:658:TYR:OH	3:P:39:PRO:CG	2.41	0.67
1:L:272:PRO:HG2	1:L:276:ARG:HA	1.77	0.67
3:P:77:GLU:HA	3:P:80:LEU:CB	2.21	0.67
3:Q:40:ASN:C	3:Q:40:ASN:ND2	2.45	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634:ALA:HB1	1:A:848:GLY:HA2	1.74	0.67
1:D:264:ASP:HB3	1:F:810:TRP:HZ2	1.58	0.67
1:F:789:PHE:HD1	1:F:791:PHE:H	1.41	0.67
1:H:9:GLN:HA	4:R:31:MET:HE1	1.77	0.67
1:H:109:ARG:HH22	1:H:512:LEU:HB2	1.57	0.67
1:H:242:ARG:HG3	1:H:244:GLY:H	1.60	0.67
1:H:813:ARG:HH12	1:I:261:LEU:HB2	1.58	0.67
1:I:272:PRO:HG2	1:I:276:ARG:HA	1.77	0.67
1:K:398:ARG:HB3	1:K:403:TRP:CZ2	2.29	0.67
1:K:484:THR:HG23	1:L:514:ASN:HB3	1.76	0.67
2:M:76:LEU:HB3	2:M:86:LEU:HD12	1.74	0.67
3:P:17:PRO:O	3:P:18:LYS:HB3	1.95	0.67
3:Q:65:ARG:HB3	3:Q:66:PRO:CD	2.25	0.67
1:A:74:GLU:OE2	2:M:367:LYS:CD	2.32	0.67
1:D:401:GLN:HG2	1:D:404:GLN:HG2	1.77	0.67
1:D:516:ARG:HB3	1:F:814:HIS:ND1	2.08	0.67
1:E:484:THR:HG23	1:F:514:ASN:HB3	1.76	0.67
1:E:743:LEU:HD21	1:F:351:PHE:HB2	1.76	0.67
1:F:641:THR:HG22	1:F:642:ARG:N	2.03	0.67
1:G:264:ASP:HB3	1:I:810:TRP:HZ2	1.58	0.67
1:G:307:ASN:HA	1:G:327:ASP:OD1	1.94	0.67
1:G:432:ARG:HD3	1:H:124:PHE:CZ	2.30	0.67
1:J:121:TYR:HB2	1:J:217:GLY:HA2	1.77	0.67
1:J:347:ARG:HH21	1:J:356:GLN:HG3	1.58	0.67
1:K:768:PRO:CG	3:O:58:LEU:HA	2.25	0.67
1:A:799:HIS:HD2	1:A:800:PRO:HD2	1.60	0.67
1:A:817:ARG:HD3	1:B:517:PHE:HB2	1.75	0.67
1:B:81:LYS:HZ3	1:J:658:TYR:HD2	1.38	0.67
1:B:470:ILE:HD12	1:B:793:ARG:HH11	1.58	0.67
1:C:789:PHE:HD1	1:C:791:PHE:H	1.41	0.67
1:D:121:TYR:HB2	1:D:217:GLY:HA2	1.77	0.67
1:D:191:TRP:CZ3	1:D:385:SER:HA	2.30	0.67
1:D:432:ARG:HD3	1:E:124:PHE:CZ	2.30	0.67
1:D:812:PRO:HD3	1:E:111:ALA:HB1	1.75	0.67
1:E:103:ILE:HG23	1:E:572:ILE:HD13	1.76	0.67
1:E:307:ASN:HA	1:E:327:ASP:OD1	1.94	0.67
1:E:381:CYS:SG	1:E:422:MET:HB2	2.35	0.67
1:G:643:LEU:HD22	1:G:666:PRO:HB2	1.77	0.67
1:I:398:ARG:HB3	1:I:403:TRP:CZ2	2.30	0.67
1:J:401:GLN:HG2	1:J:404:GLN:HG2	1.77	0.67
1:J:470:ILE:HD12	1:J:793:ARG:HH11	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:90:LEU:HD23	3:P:90:LEU:CB	2.24	0.67
1:A:401:GLN:HG2	1:A:404:GLN:HG2	1.77	0.67
1:A:470:ILE:HD12	1:A:793:ARG:HH11	1.59	0.67
1:B:207:LEU:HB3	1:B:210:PRO:HG2	1.77	0.67
1:G:516:ARG:HB3	1:I:814:HIS:ND1	2.08	0.67
1:K:743:LEU:HD21	1:L:351:PHE:HB2	1.76	0.67
3:O:89:LEU:HD12	3:P:87:MET:HE3	1.77	0.67
3:Q:9:VAL:HG22	3:Q:11:TYR:CE2	2.30	0.67
3:Q:65:ARG:HH11	3:Q:65:ARG:C	1.96	0.67
1:E:59:GLU:HB2	1:J:60:ARG:CD	2.25	0.66
1:E:76:THR:OG1	1:G:658:TYR:CZ	2.37	0.66
1:E:152:TYR:HE1	1:E:186:LEU:HD13	1.59	0.66
1:G:388:GLN:HG2	1:G:420:PRO:HG3	1.77	0.66
1:H:470:ILE:HD12	1:H:793:ARG:HH11	1.58	0.66
1:K:323:ASN:ND2	1:K:325:VAL:H	1.93	0.66
1:K:381:CYS:SG	1:K:422:MET:HB2	2.35	0.66
1:K:658:TYR:CE2	3:P:21:GLY:HA2	2.29	0.66
1:K:868:PRO:HG3	3:O:40:ASN:CB	2.25	0.66
3:N:75:LEU:HG	3:N:76:VAL:CG2	2.24	0.66
3:O:9:VAL:HG22	3:O:11:TYR:CE2	2.30	0.66
1:A:808:PRO:HG2	1:A:813:ARG:CD	2.24	0.66
1:B:272:PRO:HG2	1:B:276:ARG:HA	1.75	0.66
1:B:894:VAL:O	1:J:909:ALA:HB1	1.92	0.66
1:D:388:GLN:HG2	1:D:420:PRO:HG3	1.77	0.66
1:E:121:TYR:HB2	1:E:217:GLY:HA2	1.75	0.66
1:G:121:TYR:HB2	1:G:217:GLY:HA2	1.77	0.66
1:H:202:ALA:HB3	1:H:251:THR:HG22	1.78	0.66
1:H:347:ARG:HH21	1:H:356:GLN:HG3	1.59	0.66
1:H:388:GLN:HG2	1:H:420:PRO:HG3	1.78	0.66
1:H:680:LYS:HD2	3:Q:19:TRP:CE3	2.29	0.66
1:I:381:CYS:SG	1:I:422:MET:HB2	2.35	0.66
1:I:388:GLN:HG2	1:I:420:PRO:HG3	1.76	0.66
1:J:388:GLN:HG2	1:J:420:PRO:HG3	1.77	0.66
1:K:109:ARG:HH22	1:K:512:LEU:HB2	1.57	0.66
1:K:207:LEU:HB3	1:K:210:PRO:HG2	1.77	0.66
3:N:40:ASN:C	3:N:40:ASN:ND2	2.45	0.66
3:N:90:LEU:CD2	3:O:90:LEU:HD22	0.60	0.66
3:Q:75:LEU:CD2	3:Q:77:GLU:OE2	2.43	0.66
1:B:14:HIS:O	1:B:48:PRO:HB3	1.96	0.66
1:B:634:ALA:HB1	1:B:848:GLY:HA2	1.78	0.66
1:B:743:LEU:HD21	1:C:351:PHE:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:470:ILE:HD12	1:E:793:ARG:HH11	1.58	0.66
1:E:634:ALA:HB1	1:E:848:GLY:HA2	1.78	0.66
1:E:810:TRP:HZ2	1:F:264:ASP:HB3	1.59	0.66
1:G:191:TRP:CZ3	1:G:385:SER:HA	2.30	0.66
1:G:470:ILE:HD12	1:G:793:ARG:HH11	1.59	0.66
1:K:565:VAL:CG1	3:P:64:ARG:CZ	2.72	0.66
1:K:628:PRO:CD	3:P:12:VAL:HG13	2.24	0.66
1:L:202:ALA:HB3	1:L:251:THR:HG22	1.77	0.66
1:L:388:GLN:HG2	1:L:420:PRO:HG3	1.76	0.66
1:L:470:ILE:HD12	1:L:793:ARG:HH11	1.58	0.66
3:O:75:LEU:CD2	3:O:77:GLU:OE2	2.43	0.66
3:P:9:VAL:CG2	3:P:11:TYR:CZ	2.77	0.66
3:P:37:LEU:HD12	3:P:38:PRO:HD2	1.75	0.66
3:Q:77:GLU:HA	3:Q:80:LEU:CB	2.21	0.66
1:C:381:CYS:SG	1:C:422:MET:HB2	2.35	0.66
1:D:351:PHE:HB2	1:F:743:LEU:HD21	1.76	0.66
1:E:14:HIS:O	1:E:48:PRO:HB3	1.96	0.66
1:F:381:CYS:SG	1:F:422:MET:HB2	2.36	0.66
1:J:552:ASN:HD22	1:J:564:ARG:HE	1.41	0.66
1:B:686:ASP:CG	1:D:632:TRP:CZ3	2.67	0.66
1:C:103:ILE:HG23	1:C:572:ILE:HD13	1.78	0.66
1:C:132:ASN:ND2	1:C:148:ALA:HB1	2.11	0.66
1:D:808:PRO:HG2	1:D:813:ARG:CD	2.24	0.66
1:E:632:TRP:CG	1:G:321:GLN:HG2	2.30	0.66
1:F:9:GLN:HE22	4:R:34:PHE:HD2	1.43	0.66
1:G:202:ALA:HB3	1:G:251:THR:HG22	1.77	0.66
1:I:103:ILE:HG23	1:I:572:ILE:HD13	1.78	0.66
1:I:207:LEU:HB3	1:I:210:PRO:HG2	1.78	0.66
1:I:552:ASN:ND2	1:I:564:ARG:HB2	2.09	0.66
1:J:202:ALA:HB3	1:J:251:THR:HG22	1.77	0.66
1:K:307:ASN:HA	1:K:327:ASP:OD1	1.94	0.66
2:M:159:LEU:CD1	2:M:172:LEU:HB3	2.24	0.66
2:M:219:VAL:HG23	2:M:414:GLN:HE22	1.58	0.66
1:A:643:LEU:HD22	1:A:666:PRO:HB2	1.77	0.66
1:D:202:ALA:HB3	1:D:251:THR:HG22	1.77	0.66
1:G:381:CYS:SG	1:G:422:MET:HB2	2.36	0.66
1:H:381:CYS:SG	1:H:422:MET:HB2	2.35	0.66
1:I:307:ASN:HA	1:I:327:ASP:OD1	1.94	0.66
2:M:107:LEU:HD21	2:M:442:LEU:HD23	1.77	0.66
3:N:75:LEU:CD2	3:N:77:GLU:OE2	2.43	0.66
3:P:65:ARG:HB3	3:P:66:PRO:CD	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:GLN:HG2	1:B:420:PRO:HG3	1.78	0.66
1:B:401:GLN:HG2	1:B:404:GLN:HG2	1.77	0.66
1:D:381:CYS:SG	1:D:422:MET:HB2	2.36	0.66
1:H:401:GLN:HG2	1:H:404:GLN:HG2	1.77	0.66
1:H:814:HIS:ND1	1:I:516:ARG:HB3	2.11	0.66
1:I:202:ALA:HB3	1:I:251:THR:HG22	1.76	0.66
1:K:401:GLN:HG2	1:K:404:GLN:HG2	1.77	0.66
3:O:40:ASN:C	3:O:40:ASN:ND2	2.45	0.66
3:P:75:LEU:HG	3:P:76:VAL:CG2	2.24	0.66
3:P:75:LEU:CD2	3:P:77:GLU:OE2	2.43	0.66
1:E:814:HIS:ND1	1:F:516:ARG:HB3	2.11	0.66
1:F:398:ARG:HB3	1:F:403:TRP:CZ2	2.30	0.66
1:L:389:ILE:HG22	1:L:413:TYR:HB3	1.78	0.66
1:A:202:ALA:HB3	1:A:251:THR:HG22	1.77	0.66
1:B:323:ASN:ND2	1:B:325:VAL:H	1.93	0.66
1:B:381:CYS:SG	1:B:422:MET:HB2	2.35	0.66
1:B:686:ASP:CG	1:D:632:TRP:CE3	2.68	0.66
1:C:152:TYR:HE1	1:C:186:LEU:HD13	1.60	0.66
1:C:389:ILE:HG22	1:C:413:TYR:HB3	1.78	0.66
1:D:107:LEU:HD13	1:D:570:VAL:HG12	1.77	0.66
1:E:388:GLN:HG2	1:E:420:PRO:HG3	1.78	0.66
1:F:132:ASN:ND2	1:F:148:ALA:HB1	2.11	0.66
1:J:432:ARG:HD3	1:K:124:PHE:CZ	2.30	0.66
1:J:643:LEU:HD22	1:J:666:PRO:HB2	1.77	0.66
1:K:14:HIS:O	1:K:48:PRO:HB3	1.96	0.66
1:K:505:LEU:HD13	1:K:556:GLN:NE2	2.11	0.66
1:L:808:PRO:HG2	1:L:813:ARG:CD	2.25	0.66
3:N:9:VAL:HG22	3:N:11:TYR:CE2	2.30	0.66
4:R:33:TRP:NE1	4:R:44:VAL:HG11	2.11	0.66
1:B:109:ARG:HH22	1:B:512:LEU:HB2	1.57	0.66
1:B:810:TRP:HZ2	1:C:264:ASP:HB3	1.59	0.66
1:B:814:HIS:ND1	1:C:516:ARG:HB3	2.11	0.66
1:C:207:LEU:HB3	1:C:210:PRO:HG2	1.78	0.66
1:C:272:PRO:HG2	1:C:276:ARG:HA	1.77	0.66
1:E:330:ASP:HB3	1:E:901:ARG:HH22	1.61	0.66
1:G:799:HIS:HD2	1:G:800:PRO:HD2	1.60	0.66
1:H:634:ALA:HB1	1:H:848:GLY:HA2	1.78	0.66
1:K:814:HIS:ND1	1:L:516:ARG:HB3	2.11	0.66
2:M:159:LEU:CD1	2:M:160:PRO:HD2	2.26	0.66
3:P:9:VAL:HG22	3:P:11:TYR:CE2	2.30	0.66
3:P:31:MET:HB3	3:P:32:LEU:CB	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:323:ASN:ND2	1:E:325:VAL:H	1.93	0.65
1:G:357:ALA:HB3	1:G:508:ARG:HD2	1.78	0.65
1:H:14:HIS:O	1:H:48:PRO:HB3	1.96	0.65
1:H:389:ILE:HG22	1:H:413:TYR:HB3	1.78	0.65
1:K:330:ASP:HB3	1:K:901:ARG:HH22	1.61	0.65
1:K:658:TYR:OH	3:P:39:PRO:N	2.28	0.65
1:L:381:CYS:SG	1:L:422:MET:HB2	2.36	0.65
3:N:17:PRO:O	3:N:18:LYS:HB3	1.95	0.65
3:O:30:ASN:O	3:O:33:GLY:HA3	1.96	0.65
3:Q:14:ALA:O	3:Q:15:ARG:CB	2.41	0.65
4:R:41:ILE:HD13	4:R:41:ILE:O	1.96	0.65
1:B:242:ARG:HG3	1:B:244:GLY:H	1.60	0.65
1:C:109:ARG:HH22	1:C:512:LEU:HB2	1.61	0.65
1:K:202:ALA:HB3	1:K:251:THR:HG22	1.78	0.65
1:K:389:ILE:HG22	1:K:413:TYR:HB3	1.78	0.65
1:K:634:ALA:HB1	1:K:848:GLY:HA2	1.78	0.65
2:M:125:LEU:HD13	2:M:464:TYR:CD2	2.32	0.65
3:N:39:PRO:HA	3:N:44:HIS:CD2	2.31	0.65
3:N:65:ARG:CB	3:N:66:PRO:HD3	2.19	0.65
1:A:207:LEU:HB3	1:A:210:PRO:HG2	1.79	0.65
1:B:484:THR:HG23	1:C:514:ASN:HB3	1.76	0.65
1:B:686:ASP:H	1:D:909:ALA:CB	2.06	0.65
1:B:891:HIS:CD2	1:J:630:ARG:HE	2.15	0.65
1:F:107:LEU:HD13	1:F:570:VAL:HG12	1.79	0.65
1:F:207:LEU:HB3	1:F:210:PRO:HG2	1.78	0.65
1:G:206:VAL:O	1:G:255:THR:HA	1.97	0.65
1:H:103:ILE:HG23	1:H:572:ILE:HD13	1.77	0.65
1:H:107:LEU:HD13	1:H:570:VAL:HG12	1.78	0.65
1:I:107:LEU:HD13	1:I:570:VAL:HG12	1.79	0.65
1:I:109:ARG:HH22	1:I:512:LEU:HB2	1.61	0.65
1:J:357:ALA:HB3	1:J:508:ARG:HD2	1.78	0.65
1:K:242:ARG:HG3	1:K:244:GLY:H	1.60	0.65
1:K:810:TRP:HZ2	1:L:264:ASP:HB3	1.59	0.65
3:O:65:ARG:HB3	3:O:66:PRO:CD	2.25	0.65
1:A:357:ALA:HB3	1:A:508:ARG:HD2	1.78	0.65
1:B:146:THR:H	1:C:412:ASN:ND2	1.95	0.65
1:B:202:ALA:HB3	1:B:251:THR:HG22	1.78	0.65
1:B:297:ARG:HA	1:B:508:ARG:HH21	1.61	0.65
1:B:909:ALA:N	1:J:83:ARG:HH11	1.94	0.65
1:D:206:VAL:O	1:D:255:THR:HA	1.97	0.65
1:D:799:HIS:HD2	1:D:800:PRO:HD2	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:242:ARG:HG3	1:E:244:GLY:H	1.60	0.65
1:H:207:LEU:HB3	1:H:210:PRO:HG2	1.77	0.65
1:H:330:ASP:HB3	1:H:901:ARG:HH22	1.61	0.65
1:H:505:LEU:HD13	1:H:556:GLN:NE2	2.11	0.65
1:I:389:ILE:HG22	1:I:413:TYR:HB3	1.78	0.65
1:K:767:ASN:ND2	3:O:58:LEU:HB3	2.11	0.65
3:P:15:ARG:HG3	3:P:15:ARG:NH1	2.08	0.65
3:P:39:PRO:HA	3:P:44:HIS:CD2	2.31	0.65
1:B:330:ASP:HB3	1:B:901:ARG:HH22	1.61	0.65
1:D:643:LEU:HD22	1:D:666:PRO:HB2	1.77	0.65
1:E:767:ASN:HB3	1:E:770:THR:CG2	2.27	0.65
1:F:389:ILE:HG22	1:F:413:TYR:HB3	1.78	0.65
1:G:505:LEU:HD13	1:G:556:GLN:NE2	2.12	0.65
1:I:132:ASN:ND2	1:I:148:ALA:HB1	2.11	0.65
1:J:207:LEU:HB3	1:J:210:PRO:HG2	1.79	0.65
3:Q:39:PRO:HA	3:Q:44:HIS:CD2	2.31	0.65
1:A:121:TYR:HB2	1:A:217:GLY:HA2	1.77	0.65
1:A:328:LEU:HD22	2:M:102:ASN:N	2.12	0.65
1:B:505:LEU:HD13	1:B:556:GLN:NE2	2.11	0.65
1:B:641:THR:CG2	1:B:642:ARG:H	2.01	0.65
1:C:202:ALA:HB3	1:C:251:THR:HG22	1.76	0.65
1:F:103:ILE:HG23	1:F:572:ILE:HD13	1.78	0.65
1:G:124:PHE:CZ	1:I:432:ARG:HD3	2.32	0.65
1:G:823:PHE:O	1:G:824:LEU:HD12	1.97	0.65
1:H:323:ASN:ND2	1:H:325:VAL:H	1.93	0.65
1:J:381:CYS:SG	1:J:422:MET:HB2	2.36	0.65
1:L:132:ASN:ND2	1:L:148:ALA:HB1	2.11	0.65
3:O:46:THR:HG22	3:O:48:THR:OG1	1.97	0.65
3:Q:31:MET:HB3	3:Q:32:LEU:CB	2.24	0.65
1:A:792:CYS:O	1:A:793:ARG:CG	2.45	0.65
1:B:81:LYS:HD2	1:B:544:GLU:OE2	1.97	0.65
1:B:653:SER:HB3	1:J:77:GLN:HE21	1.52	0.65
1:C:330:ASP:HB3	1:C:901:ARG:HH22	1.62	0.65
1:D:207:LEU:HB3	1:D:210:PRO:HG2	1.79	0.65
1:E:297:ARG:HA	1:E:508:ARG:HH21	1.62	0.65
1:H:81:LYS:HD2	1:H:544:GLU:OE2	1.97	0.65
1:I:323:ASN:ND2	1:I:325:VAL:H	1.94	0.65
1:J:14:HIS:O	1:J:48:PRO:HB3	1.97	0.65
1:J:186:LEU:HG	1:L:790:ARG:HD3	1.78	0.65
1:J:323:ASN:ND2	1:J:325:VAL:H	1.94	0.65
3:N:65:ARG:HB3	3:N:66:PRO:CD	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:40:ASN:C	3:P:40:ASN:ND2	2.45	0.65
3:P:46:THR:HG22	3:P:48:THR:OG1	1.97	0.65
1:A:206:VAL:O	1:A:255:THR:HA	1.97	0.65
1:A:823:PHE:O	1:A:824:LEU:HD12	1.97	0.65
1:C:323:ASN:ND2	1:C:325:VAL:H	1.94	0.65
1:E:146:THR:H	1:F:412:ASN:ND2	1.95	0.65
1:F:25:SER:HB3	4:R:189:PRO:HB2	1.78	0.65
1:G:401:GLN:HG2	1:G:404:GLN:HG2	1.77	0.65
1:H:767:ASN:HB3	1:H:770:THR:CG2	2.27	0.65
1:J:124:PHE:CZ	1:L:432:ARG:HD3	2.32	0.65
1:J:808:PRO:HG2	1:J:813:ARG:CD	2.24	0.65
1:L:323:ASN:ND2	1:L:325:VAL:H	1.94	0.65
1:L:823:PHE:O	1:L:824:LEU:HD12	1.97	0.65
3:N:77:GLU:HA	3:N:80:LEU:HD13	1.79	0.65
3:O:39:PRO:HA	3:O:44:HIS:CD2	2.31	0.65
3:Q:17:PRO:O	3:Q:18:LYS:HB3	1.95	0.65
3:Q:77:GLU:HA	3:Q:80:LEU:HD13	1.79	0.65
1:A:67:ARG:HH11	1:A:576:ASN:HD22	1.45	0.65
1:A:323:ASN:ND2	1:A:325:VAL:H	1.94	0.65
1:B:792:CYS:O	1:B:793:ARG:CG	2.45	0.65
1:C:808:PRO:HG2	1:C:813:ARG:CD	2.24	0.65
1:D:14:HIS:O	1:D:48:PRO:HB3	1.97	0.65
1:E:505:LEU:HD13	1:E:556:GLN:NE2	2.11	0.65
1:H:147:ILE:O	1:H:147:ILE:HG13	1.97	0.65
1:H:643:LEU:HD22	1:H:666:PRO:HB2	1.78	0.65
1:I:152:TYR:HE1	1:I:186:LEU:HD13	1.60	0.65
1:K:297:ARG:HA	1:K:508:ARG:HH21	1.62	0.65
1:L:152:TYR:HE1	1:L:186:LEU:HD13	1.60	0.65
2:M:236:ALA:CB	2:M:263:SER:HA	2.24	0.65
1:D:357:ALA:HB3	1:D:508:ARG:HD2	1.78	0.65
1:E:401:GLN:HG2	1:E:404:GLN:HG2	1.78	0.65
1:F:152:TYR:HE1	1:F:186:LEU:HD13	1.60	0.65
1:G:207:LEU:HB3	1:G:210:PRO:HG2	1.78	0.65
1:G:792:CYS:O	1:G:793:ARG:CG	2.45	0.65
1:J:792:CYS:O	1:J:793:ARG:CG	2.45	0.65
1:K:81:LYS:HD2	1:K:544:GLU:OE2	1.97	0.65
1:K:146:THR:H	1:L:412:ASN:ND2	1.95	0.65
1:L:207:LEU:HB3	1:L:210:PRO:HG2	1.78	0.65
1:L:767:ASN:HB3	1:L:770:THR:CG2	2.27	0.65
2:M:50:ARG:HB2	2:M:106:GLU:HB2	1.79	0.65
2:M:291:ARG:HG3	2:M:292:GLU:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:446:LEU:C	2:M:446:LEU:HD23	2.17	0.65
3:N:87:MET:HG2	3:P:86:ARG:CZ	2.27	0.65
3:N:90:LEU:CD2	3:P:90:LEU:CD2	0.84	0.65
3:O:17:PRO:O	3:O:18:LYS:HB3	1.95	0.65
1:A:14:HIS:O	1:A:48:PRO:HB3	1.97	0.64
1:A:381:CYS:SG	1:A:422:MET:HB2	2.36	0.64
1:A:389:ILE:HG22	1:A:413:TYR:HB3	1.79	0.64
1:D:505:LEU:HD13	1:D:556:GLN:NE2	2.12	0.64
1:E:202:ALA:HB3	1:E:251:THR:HG22	1.78	0.64
1:F:323:ASN:ND2	1:F:325:VAL:H	1.94	0.64
1:G:157:GLY:HA2	1:G:201:GLN:HG3	1.79	0.64
1:G:323:ASN:ND2	1:G:325:VAL:H	1.94	0.64
1:H:441:LEU:HD23	1:H:471:PRO:HG3	1.79	0.64
1:H:473:SER:CB	1:H:792:CYS:HB2	2.25	0.64
1:H:792:CYS:O	1:H:793:ARG:CG	2.45	0.64
1:H:823:PHE:O	1:H:824:LEU:HD12	1.98	0.64
1:I:14:HIS:O	1:I:48:PRO:HB3	1.98	0.64
1:I:133:THR:O	1:I:147:ILE:HG23	1.97	0.64
1:K:658:TYR:CD2	3:P:21:GLY:HA2	2.32	0.64
1:L:133:THR:O	1:L:147:ILE:HG23	1.97	0.64
3:N:90:LEU:HD23	3:O:90:LEU:CB	2.26	0.64
4:R:190:TYR:HB3	4:R:197:TYR:HE1	1.61	0.64
1:B:389:ILE:HG22	1:B:413:TYR:HB3	1.78	0.64
1:C:552:ASN:ND2	1:C:564:ARG:HB2	2.09	0.64
1:D:641:THR:CG2	1:D:642:ARG:H	2.02	0.64
1:D:792:CYS:O	1:D:793:ARG:CG	2.45	0.64
1:E:792:CYS:O	1:E:793:ARG:CG	2.45	0.64
1:F:133:THR:O	1:F:147:ILE:HG23	1.97	0.64
1:G:133:THR:O	1:G:147:ILE:HG23	1.97	0.64
1:G:241:TYR:HB3	1:H:393:SER:OG	1.98	0.64
1:H:146:THR:H	1:I:412:ASN:ND2	1.95	0.64
1:I:330:ASP:HB3	1:I:901:ARG:HH22	1.62	0.64
1:J:393:SER:OG	1:L:241:TYR:HB3	1.97	0.64
1:J:505:LEU:HD13	1:J:556:GLN:NE2	2.12	0.64
1:K:792:CYS:O	1:K:793:ARG:CG	2.45	0.64
3:O:69:GLN:HG3	3:P:4:GLU:N	2.12	0.64
1:A:186:LEU:HG	1:C:790:ARG:HD3	1.78	0.64
1:A:393:SER:OG	1:C:241:TYR:HB3	1.97	0.64
1:C:107:LEU:HD13	1:C:570:VAL:HG12	1.79	0.64
1:C:133:THR:O	1:C:147:ILE:HG23	1.97	0.64
1:C:357:ALA:HB3	1:C:508:ARG:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:393:SER:OG	1:F:241:TYR:HB3	1.97	0.64
1:D:823:PHE:O	1:D:824:LEU:HD12	1.97	0.64
1:E:643:LEU:HD22	1:E:666:PRO:HB2	1.78	0.64
1:H:297:ARG:HA	1:H:508:ARG:HH21	1.62	0.64
1:H:402:GLN:O	1:H:403:TRP:HE3	1.80	0.64
1:I:206:VAL:HG13	1:I:255:THR:HG22	1.80	0.64
1:K:473:SER:CB	1:K:792:CYS:HB2	2.25	0.64
1:L:357:ALA:HB3	1:L:508:ARG:HD2	1.80	0.64
3:N:46:THR:HG22	3:N:48:THR:OG1	1.97	0.64
1:D:124:PHE:CZ	1:F:432:ARG:HD3	2.32	0.64
1:F:272:PRO:HG2	1:F:276:ARG:HA	1.77	0.64
1:G:762:CYS:SG	1:G:821:ARG:HG2	2.38	0.64
1:I:643:LEU:HD22	1:I:666:PRO:HB2	1.79	0.64
1:L:107:LEU:HD13	1:L:570:VAL:HG12	1.79	0.64
3:Q:15:ARG:HG3	3:Q:15:ARG:NH1	2.08	0.64
3:Q:74:ILE:CD1	3:Q:78:ASP:OD2	2.44	0.64
1:A:505:LEU:HD13	1:A:556:GLN:NE2	2.12	0.64
1:B:767:ASN:HB3	1:B:770:THR:CG2	2.27	0.64
1:B:890:PRO:HB2	1:J:910:THR:N	2.13	0.64
1:E:389:ILE:HG22	1:E:413:TYR:HB3	1.78	0.64
1:E:402:GLN:O	1:E:403:TRP:HE3	1.80	0.64
1:E:441:LEU:HD23	1:E:471:PRO:HG3	1.80	0.64
1:F:357:ALA:HB3	1:F:508:ARG:HD2	1.80	0.64
1:F:823:PHE:O	1:F:824:LEU:HD12	1.97	0.64
1:G:14:HIS:O	1:G:48:PRO:HB3	1.97	0.64
1:K:441:LEU:HD23	1:K:471:PRO:HG3	1.79	0.64
1:L:103:ILE:HG23	1:L:572:ILE:HD13	1.78	0.64
3:O:16:LEU:CD2	3:O:17:PRO:CD	2.71	0.64
3:O:42:GLN:OE1	3:O:42:GLN:HA	1.97	0.64
3:Q:19:TRP:CE3	3:Q:19:TRP:O	2.50	0.64
1:A:241:TYR:HB3	1:B:393:SER:OG	1.97	0.64
1:B:309:GLY:C	1:J:654:PRO:HD2	2.18	0.64
1:B:891:HIS:CG	1:J:630:ARG:NH2	2.43	0.64
1:C:206:VAL:O	1:C:255:THR:HA	1.98	0.64
1:C:206:VAL:HG13	1:C:255:THR:HG22	1.80	0.64
1:D:323:ASN:ND2	1:D:325:VAL:H	1.94	0.64
1:E:107:LEU:HD13	1:E:570:VAL:HG12	1.78	0.64
1:E:630:ARG:NH1	1:G:83:ARG:NH2	2.45	0.64
1:F:643:LEU:HD22	1:F:666:PRO:HB2	1.79	0.64
1:I:206:VAL:O	1:I:255:THR:HA	1.98	0.64
1:K:388:GLN:HG2	1:K:420:PRO:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:402:GLN:O	1:K:403:TRP:HE3	1.80	0.64
1:K:767:ASN:HB3	1:K:770:THR:CG2	2.27	0.64
3:N:30:ASN:O	3:N:33:GLY:HA3	1.96	0.64
3:O:66:PRO:O	3:O:67:GLU:CD	2.36	0.64
3:P:19:TRP:O	3:P:19:TRP:CE3	2.50	0.64
3:P:30:ASN:O	3:P:33:GLY:HA3	1.96	0.64
3:Q:30:ASN:O	3:Q:33:GLY:HA3	1.96	0.64
1:A:124:PHE:CZ	1:C:432:ARG:HD3	2.32	0.64
1:A:762:CYS:SG	1:A:821:ARG:HG2	2.38	0.64
1:A:786:ALA:O	1:A:796:ARG:HB2	1.98	0.64
1:B:147:ILE:O	1:B:147:ILE:HG13	1.97	0.64
1:C:14:HIS:O	1:C:48:PRO:HB3	1.97	0.64
1:D:81:LYS:HD2	1:D:544:GLU:OE2	1.98	0.64
1:D:402:GLN:O	1:D:403:TRP:HE3	1.81	0.64
1:F:109:ARG:HH22	1:F:512:LEU:HB2	1.61	0.64
1:G:132:ASN:ND2	1:G:148:ALA:HB1	2.13	0.64
1:J:206:VAL:O	1:J:255:THR:HA	1.97	0.64
1:J:402:GLN:O	1:J:403:TRP:HE3	1.81	0.64
1:K:107:LEU:HD13	1:K:570:VAL:HG12	1.78	0.64
1:K:643:LEU:HD22	1:K:666:PRO:HB2	1.78	0.64
1:K:820:GLU:HG3	3:O:46:THR:CG2	2.23	0.64
3:N:19:TRP:O	3:N:19:TRP:CE3	2.50	0.64
3:N:42:GLN:HA	3:N:42:GLN:OE1	1.97	0.64
1:A:133:THR:O	1:A:147:ILE:HG23	1.97	0.64
1:A:157:GLY:HA2	1:A:201:GLN:HG3	1.79	0.64
1:B:643:LEU:HD22	1:B:666:PRO:HB2	1.78	0.64
1:C:767:ASN:HB3	1:C:770:THR:CG2	2.27	0.64
1:D:389:ILE:HG22	1:D:413:TYR:HB3	1.79	0.64
1:E:60:ARG:HG2	1:J:61:SER:N	2.12	0.64
1:F:744:PRO:HD2	1:F:755:LEU:HD13	1.80	0.64
1:I:744:PRO:HD2	1:I:755:LEU:HD13	1.80	0.64
1:J:786:ALA:O	1:J:796:ARG:HB2	1.98	0.64
3:N:74:ILE:CD1	3:N:78:ASP:OD2	2.44	0.64
3:O:42:GLN:OE1	3:O:42:GLN:CA	2.46	0.64
3:P:66:PRO:O	3:P:67:GLU:CD	2.36	0.64
1:A:402:GLN:O	1:A:403:TRP:HE3	1.81	0.64
1:B:402:GLN:O	1:B:403:TRP:HE3	1.80	0.64
1:B:441:LEU:HD23	1:B:471:PRO:HG3	1.79	0.64
1:F:8:PRO:HG2	4:R:41:ILE:HG21	1.79	0.64
1:F:505:LEU:HD13	1:F:556:GLN:NE2	2.13	0.64
1:H:801:TYR:CG	1:H:802:PRO:HD2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:285:HIS:CE1	1:I:795:PRO:HD3	2.33	0.64
1:I:505:LEU:HD13	1:I:556:GLN:NE2	2.13	0.64
1:J:81:LYS:HD2	1:J:544:GLU:OE2	1.98	0.64
1:J:132:ASN:ND2	1:J:148:ALA:HB1	2.13	0.64
1:J:133:THR:O	1:J:147:ILE:HG23	1.97	0.64
1:J:231:LYS:HG3	1:J:258:ALA:HA	1.80	0.64
1:J:241:TYR:HB3	1:K:393:SER:OG	1.98	0.64
3:N:77:GLU:HA	3:N:80:LEU:CB	2.21	0.64
3:O:19:TRP:CE3	3:O:19:TRP:O	2.50	0.64
4:R:36:ALA:HB1	4:R:40:MET:HG2	1.79	0.64
1:B:271:VAL:HB	1:B:272:PRO:CD	2.28	0.64
1:D:762:CYS:SG	1:D:821:ARG:HG2	2.38	0.64
1:D:786:ALA:O	1:D:796:ARG:HB2	1.98	0.64
1:G:744:PRO:HD2	1:G:755:LEU:HD13	1.80	0.64
1:G:881:VAL:HG12	1:G:903:PRO:HD2	1.80	0.64
1:H:442:TYR:HE2	1:H:499:HIS:HA	1.63	0.64
1:K:206:VAL:HG13	1:K:255:THR:HG22	1.80	0.64
1:K:357:ALA:HB3	1:K:508:ARG:HD2	1.80	0.64
1:K:641:THR:CG2	1:K:642:ARG:H	2.01	0.64
1:L:330:ASP:HB3	1:L:901:ARG:HH22	1.62	0.64
3:N:18:LYS:O	3:N:19:TRP:C	2.37	0.64
1:D:152:TYR:HE1	1:D:186:LEU:HD13	1.63	0.63
1:E:147:ILE:O	1:E:147:ILE:HG13	1.97	0.63
1:E:206:VAL:HG13	1:E:255:THR:HG22	1.80	0.63
1:E:442:TYR:HE2	1:E:499:HIS:HA	1.63	0.63
1:G:186:LEU:HG	1:I:790:ARG:HD3	1.78	0.63
1:H:744:PRO:HD2	1:H:755:LEU:HD13	1.80	0.63
1:J:67:ARG:HH11	1:J:576:ASN:HD22	1.45	0.63
1:J:767:ASN:HB3	1:J:770:THR:CG2	2.28	0.63
1:J:881:VAL:HG12	1:J:903:PRO:HD2	1.80	0.63
1:L:14:HIS:O	1:L:48:PRO:HB3	1.98	0.63
3:N:97:LEU:CB	3:P:97:LEU:CD2	2.72	0.63
3:O:90:LEU:HD23	3:P:90:LEU:CG	1.83	0.63
4:R:33:TRP:NE1	4:R:41:ILE:HG12	2.12	0.63
1:A:81:LYS:HD2	1:A:544:GLU:OE2	1.98	0.63
1:B:107:LEU:HD13	1:B:570:VAL:HG12	1.78	0.63
1:C:643:LEU:HD22	1:C:666:PRO:HB2	1.79	0.63
1:E:81:LYS:HD2	1:E:544:GLU:OE2	1.97	0.63
1:G:81:LYS:HD2	1:G:544:GLU:OE2	1.98	0.63
1:G:393:SER:OG	1:I:241:TYR:HB3	1.97	0.63
1:I:634:ALA:HB1	1:I:848:GLY:HA2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:823:PHE:O	1:J:824:LEU:HD12	1.97	0.63
2:M:61:THR:O	2:M:474:PRO:HD2	1.98	0.63
3:O:18:LYS:O	3:O:19:TRP:C	2.37	0.63
3:O:77:GLU:HA	3:O:80:LEU:HD13	1.79	0.63
3:Q:34:GLY:CA	3:Q:64:ARG:CD	2.63	0.63
1:B:309:GLY:CA	1:J:654:PRO:HG2	2.25	0.63
1:C:823:PHE:O	1:C:824:LEU:HD12	1.97	0.63
1:D:67:ARG:HH11	1:D:576:ASN:HD22	1.45	0.63
1:E:909:ALA:CA	1:G:544:GLU:OE1	2.46	0.63
1:F:330:ASP:HB3	1:F:901:ARG:HH22	1.62	0.63
1:F:767:ASN:HB3	1:F:770:THR:CG2	2.27	0.63
1:G:67:ARG:HH11	1:G:576:ASN:HD22	1.45	0.63
1:J:7:LEU:CD2	4:R:14:GLN:CB	2.71	0.63
1:K:442:TYR:HE2	1:K:499:HIS:HA	1.63	0.63
1:L:206:VAL:HG13	1:L:255:THR:HG22	1.80	0.63
3:N:42:GLN:OE1	3:N:42:GLN:CA	2.46	0.63
3:P:65:ARG:CB	3:P:66:PRO:HD3	2.19	0.63
3:Q:65:ARG:CB	3:Q:66:PRO:HD3	2.19	0.63
1:B:801:TYR:CG	1:B:802:PRO:HD2	2.33	0.63
1:B:823:PHE:O	1:B:824:LEU:HD12	1.97	0.63
1:B:881:VAL:HG12	1:B:903:PRO:HD2	1.80	0.63
1:C:505:LEU:HD13	1:C:556:GLN:NE2	2.13	0.63
1:D:186:LEU:HG	1:F:790:ARG:HD3	1.78	0.63
1:D:241:TYR:HB3	1:E:393:SER:OG	1.97	0.63
1:D:767:ASN:HB3	1:D:770:THR:CG2	2.28	0.63
1:D:881:VAL:HG12	1:D:903:PRO:HD2	1.80	0.63
1:E:473:SER:CB	1:E:792:CYS:HB2	2.25	0.63
1:E:632:TRP:CD1	1:G:321:GLN:HG2	2.32	0.63
1:F:206:VAL:HG13	1:F:255:THR:HG22	1.79	0.63
1:J:157:GLY:HA2	1:J:201:GLN:HG3	1.79	0.63
1:J:389:ILE:HG22	1:J:413:TYR:HB3	1.79	0.63
1:K:77:GLN:HE22	3:P:52:GLU:CG	2.06	0.63
1:L:109:ARG:HH22	1:L:512:LEU:HB2	1.61	0.63
3:N:66:PRO:O	3:N:67:GLU:CD	2.36	0.63
3:P:77:GLU:HA	3:P:80:LEU:HD13	1.79	0.63
3:Q:42:GLN:OE1	3:Q:42:GLN:CA	2.46	0.63
3:Q:46:THR:HG22	3:Q:48:THR:OG1	1.97	0.63
4:R:33:TRP:CD1	4:R:44:VAL:HG11	2.32	0.63
1:C:786:ALA:O	1:C:796:ARG:HB2	1.99	0.63
1:D:132:ASN:ND2	1:D:148:ALA:HB1	2.13	0.63
1:E:823:PHE:O	1:E:824:LEU:HD12	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:206:VAL:O	1:F:255:THR:HA	1.98	0.63
1:G:272:PRO:HG2	1:G:276:ARG:HA	1.81	0.63
1:H:206:VAL:O	1:H:255:THR:HA	1.99	0.63
1:J:152:TYR:HE1	1:J:186:LEU:HD13	1.63	0.63
1:J:762:CYS:SG	1:J:821:ARG:HG2	2.38	0.63
1:K:206:VAL:O	1:K:255:THR:HA	1.99	0.63
1:K:823:PHE:O	1:K:824:LEU:HD12	1.97	0.63
2:M:90:VAL:HG13	2:M:91:GLN:H	1.62	0.63
3:N:97:LEU:CD2	3:P:97:LEU:HD21	0.49	0.63
1:A:152:TYR:HE1	1:A:186:LEU:HD13	1.63	0.63
1:A:653:SER:N	2:M:75:THR:O	2.32	0.63
1:A:767:ASN:HB3	1:A:770:THR:CG2	2.28	0.63
1:D:744:PRO:HD2	1:D:755:LEU:HD13	1.80	0.63
1:E:271:VAL:HB	1:E:272:PRO:CD	2.28	0.63
1:F:14:HIS:O	1:F:48:PRO:HB3	1.98	0.63
1:G:152:TYR:HE1	1:G:186:LEU:HD13	1.63	0.63
1:G:231:LYS:HG3	1:G:258:ALA:HA	1.81	0.63
1:G:857:ALA:CA	4:R:12:THR:HG22	2.28	0.63
1:I:762:CYS:SG	1:I:821:ARG:HG2	2.39	0.63
1:J:10:TRP:CD2	4:R:16:GLN:HB3	2.33	0.63
1:K:881:VAL:HG12	1:K:903:PRO:HD2	1.80	0.63
1:L:643:LEU:HD22	1:L:666:PRO:HB2	1.79	0.63
3:Q:18:LYS:O	3:Q:19:TRP:C	2.37	0.63
3:Q:66:PRO:O	3:Q:67:GLU:CD	2.36	0.63
1:C:634:ALA:HB1	1:C:848:GLY:HA2	1.81	0.63
1:D:133:THR:O	1:D:147:ILE:HG23	1.97	0.63
1:E:801:TYR:CG	1:E:802:PRO:HD2	2.33	0.63
1:F:442:TYR:HE2	1:F:499:HIS:HA	1.64	0.63
1:G:402:GLN:O	1:G:403:TRP:HE3	1.81	0.63
1:G:419:LEU:HD13	1:H:786:ALA:HB1	1.81	0.63
1:G:767:ASN:HB3	1:G:770:THR:CG2	2.28	0.63
1:G:786:ALA:O	1:G:796:ARG:HB2	1.98	0.63
1:I:357:ALA:HB3	1:I:508:ARG:HD2	1.80	0.63
1:I:823:PHE:O	1:I:824:LEU:HD12	1.97	0.63
1:K:801:TYR:CG	1:K:802:PRO:HD2	2.33	0.63
1:L:792:CYS:O	1:L:793:ARG:CG	2.47	0.63
3:O:90:LEU:HD22	3:P:90:LEU:HD23	1.22	0.63
1:B:686:ASP:N	1:D:909:ALA:C	2.46	0.63
1:B:909:ALA:N	1:J:83:ARG:CZ	2.53	0.63
1:E:881:VAL:HG12	1:E:903:PRO:HD2	1.80	0.63
1:E:909:ALA:CA	1:G:83:ARG:NH1	2.58	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:81:LYS:HD2	1:F:544:GLU:OE2	1.99	0.63
1:G:206:VAL:HG13	1:G:255:THR:HG22	1.81	0.63
1:G:857:ALA:HB3	4:R:12:THR:HG22	1.81	0.63
1:I:792:CYS:O	1:I:793:ARG:CG	2.47	0.63
1:J:147:ILE:O	1:J:147:ILE:HG13	1.98	0.63
1:J:419:LEU:HD13	1:K:786:ALA:HB1	1.81	0.63
1:K:147:ILE:HG13	1:K:147:ILE:O	1.97	0.63
1:L:881:VAL:HG12	1:L:903:PRO:HD2	1.80	0.63
3:N:90:LEU:HD23	3:O:90:LEU:HD22	0.63	0.63
3:Q:16:LEU:CD2	3:Q:17:PRO:CD	2.71	0.63
1:A:231:LYS:HG3	1:A:258:ALA:HA	1.81	0.63
1:A:744:PRO:HD2	1:A:755:LEU:HD13	1.80	0.63
1:B:442:TYR:HE2	1:B:499:HIS:HA	1.63	0.63
1:C:157:GLY:HA2	1:C:201:GLN:HG3	1.81	0.63
1:C:762:CYS:SG	1:C:821:ARG:HG2	2.39	0.63
1:F:786:ALA:O	1:F:796:ARG:HB2	1.99	0.63
1:F:801:TYR:CG	1:F:802:PRO:HD2	2.34	0.63
1:G:442:TYR:HE2	1:G:499:HIS:HA	1.64	0.63
1:I:767:ASN:HB3	1:I:770:THR:CG2	2.27	0.63
1:L:762:CYS:SG	1:L:821:ARG:HG2	2.39	0.63
2:M:74:GLN:O	2:M:75:THR:HG23	1.99	0.63
3:P:16:LEU:CD2	3:P:17:PRO:CD	2.71	0.63
3:P:42:GLN:OE1	3:P:42:GLN:HA	1.97	0.63
3:Q:42:GLN:OE1	3:Q:42:GLN:HA	1.97	0.63
1:C:285:HIS:CE1	1:C:795:PRO:HD3	2.34	0.62
1:C:881:VAL:HG12	1:C:903:PRO:HD2	1.80	0.62
1:E:76:THR:OG1	1:G:658:TYR:OH	1.91	0.62
1:E:357:ALA:HB3	1:E:508:ARG:HD2	1.80	0.62
1:E:641:THR:CG2	1:E:642:ARG:H	2.01	0.62
1:I:81:LYS:HD2	1:I:544:GLU:OE2	1.99	0.62
1:L:442:TYR:HE2	1:L:499:HIS:HA	1.64	0.62
1:L:505:LEU:HD13	1:L:556:GLN:NE2	2.13	0.62
3:O:77:GLU:HA	3:O:80:LEU:CB	2.21	0.62
1:B:83:ARG:HG3	1:B:544:GLU:HB2	1.82	0.62
1:B:744:PRO:HD2	1:B:755:LEU:HD13	1.80	0.62
1:D:157:GLY:HA2	1:D:201:GLN:HG3	1.80	0.62
1:D:231:LYS:HG3	1:D:258:ALA:HA	1.81	0.62
1:F:285:HIS:CE1	1:F:795:PRO:HD3	2.33	0.62
1:I:640:LEU:HD21	1:I:678:PHE:CE2	2.34	0.62
1:I:786:ALA:O	1:I:796:ARG:HB2	1.99	0.62
1:I:881:VAL:HG12	1:I:903:PRO:HD2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:206:VAL:HG13	1:J:255:THR:HG22	1.81	0.62
1:L:157:GLY:HA2	1:L:201:GLN:HG3	1.81	0.62
1:L:634:ALA:HB1	1:L:848:GLY:HA2	1.81	0.62
3:N:35:VAL:HG13	3:N:64:ARG:HA	1.81	0.62
3:P:18:LYS:O	3:P:19:TRP:C	2.37	0.62
1:A:132:ASN:ND2	1:A:148:ALA:HB1	2.13	0.62
1:C:81:LYS:HD2	1:C:544:GLU:OE2	1.99	0.62
1:C:744:PRO:HD2	1:C:755:LEU:HD13	1.80	0.62
1:C:801:TYR:CG	1:C:802:PRO:HD2	2.34	0.62
1:E:206:VAL:O	1:E:255:THR:HA	1.99	0.62
1:E:857:ALA:HB2	1:G:318:GLN:O	1.99	0.62
1:E:888:HIS:CE1	4:R:30:ARG:NH2	2.68	0.62
1:E:891:HIS:HE1	4:R:25:GLN:O	1.83	0.62
1:H:881:VAL:HG12	1:H:903:PRO:HD2	1.80	0.62
1:J:7:LEU:HA	4:R:17:MET:O	1.51	0.62
1:K:271:VAL:HB	1:K:272:PRO:CD	2.28	0.62
1:K:458:PRO:HG2	3:P:66:PRO:HA	1.81	0.62
1:L:801:TYR:CG	1:L:802:PRO:HD2	2.34	0.62
2:M:139:VAL:HG22	2:M:197:VAL:HG21	1.80	0.62
3:N:104:LEU:CB	3:P:104:LEU:HD21	2.28	0.62
3:P:8:TYR:HB3	3:P:9:VAL:HG23	1.81	0.62
3:P:42:GLN:OE1	3:P:42:GLN:CA	2.46	0.62
3:Q:8:TYR:HB3	3:Q:9:VAL:HG23	1.82	0.62
1:A:906:ALA:C	2:M:100:ALA:HA	2.20	0.62
1:B:206:VAL:O	1:B:255:THR:HA	1.99	0.62
1:F:271:VAL:HG21	1:F:283:SER:HB3	1.82	0.62
1:F:640:LEU:HD21	1:F:678:PHE:CE2	2.35	0.62
1:I:157:GLY:HA2	1:I:201:GLN:HG3	1.81	0.62
1:J:744:PRO:HD2	1:J:755:LEU:HD13	1.80	0.62
1:L:786:ALA:O	1:L:796:ARG:HB2	1.99	0.62
3:O:74:ILE:CD1	3:O:78:ASP:OD2	2.44	0.62
3:Q:35:VAL:HG13	3:Q:64:ARG:HA	1.81	0.62
1:A:272:PRO:HG2	1:A:276:ARG:HA	1.81	0.62
1:A:442:TYR:HE2	1:A:499:HIS:HA	1.64	0.62
1:A:526:GLN:NE2	1:A:531:ILE:HD11	2.15	0.62
1:A:630:ARG:NH2	2:M:94:ASP:OD2	2.29	0.62
1:B:285:HIS:CE1	1:B:795:PRO:HD3	2.35	0.62
1:C:442:TYR:HE2	1:C:499:HIS:HA	1.64	0.62
1:C:792:CYS:O	1:C:793:ARG:CG	2.47	0.62
1:D:146:THR:N	1:E:412:ASN:HD22	1.97	0.62
1:D:526:GLN:NE2	1:D:531:ILE:HD11	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:909:ALA:HB1	1:G:544:GLU:CB	2.22	0.62
1:G:389:ILE:HG22	1:G:413:TYR:HB3	1.80	0.62
1:H:357:ALA:HB3	1:H:508:ARG:HD2	1.80	0.62
1:J:442:TYR:HE2	1:J:499:HIS:HA	1.64	0.62
2:M:280:GLU:HG2	2:M:285:LYS:NZ	2.15	0.62
3:N:31:MET:HB3	3:N:32:LEU:CB	2.24	0.62
3:O:65:ARG:CB	3:O:66:PRO:HD3	2.19	0.62
1:C:271:VAL:HB	1:C:272:PRO:CD	2.28	0.62
1:D:442:TYR:HE2	1:D:499:HIS:HA	1.64	0.62
1:E:744:PRO:HD2	1:E:755:LEU:HD13	1.80	0.62
1:E:891:HIS:ND1	4:R:27:TYR:CE1	2.67	0.62
1:H:821:ARG:C	3:Q:47:GLU:HB2	2.20	0.62
1:I:442:TYR:HE2	1:I:499:HIS:HA	1.64	0.62
1:J:233:ASN:HD21	1:J:235:GLN:HB2	1.65	0.62
1:K:233:ASN:HD21	1:K:235:GLN:HB2	1.65	0.62
1:K:285:HIS:CE1	1:K:795:PRO:HD3	2.35	0.62
1:L:206:VAL:O	1:L:255:THR:HA	1.98	0.62
2:M:164:PHE:HB3	2:M:427:ILE:CD1	2.29	0.62
3:N:86:ARG:NE	3:O:87:MET:HG3	2.15	0.62
3:P:34:GLY:HA3	3:P:64:ARG:HH11	1.64	0.62
1:B:357:ALA:HB3	1:B:508:ARG:HD2	1.80	0.62
1:C:271:VAL:HG21	1:C:283:SER:HB3	1.82	0.62
1:C:640:LEU:HD21	1:C:678:PHE:CE2	2.34	0.62
1:F:881:VAL:HG12	1:F:903:PRO:HD2	1.80	0.62
1:H:206:VAL:HG13	1:H:255:THR:HG22	1.80	0.62
1:H:233:ASN:HD21	1:H:235:GLN:HB2	1.65	0.62
1:L:271:VAL:HG21	1:L:283:SER:HB3	1.82	0.62
1:L:285:HIS:CE1	1:L:795:PRO:HD3	2.33	0.62
2:M:287:VAL:HB	2:M:306:GLU:OE1	2.00	0.62
1:A:316:ALA:HB2	1:A:323:ASN:HA	1.82	0.62
1:B:206:VAL:HG13	1:B:255:THR:HG22	1.80	0.62
1:B:231:LYS:HG3	1:B:258:ALA:HA	1.82	0.62
1:D:147:ILE:HG13	1:D:147:ILE:O	1.98	0.62
1:D:156:ILE:HD12	1:D:164:GLN:HE21	1.65	0.62
1:D:272:PRO:HG2	1:D:276:ARG:HA	1.81	0.62
1:F:157:GLY:HA2	1:F:201:GLN:HG3	1.81	0.62
1:J:7:LEU:HD21	4:R:14:GLN:CB	2.19	0.62
3:N:33:GLY:HA2	3:N:55:ARG:HA	1.81	0.62
3:N:34:GLY:HA3	3:N:64:ARG:HH11	1.64	0.62
3:Q:34:GLY:HA3	3:Q:64:ARG:HH11	1.64	0.62
1:A:328:LEU:HD22	2:M:101:SER:C	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:714:TYR:O	1:A:722:THR:HA	2.00	0.62
1:D:233:ASN:HD21	1:D:235:GLN:HB2	1.65	0.62
1:F:297:ARG:HA	1:F:508:ARG:HH21	1.65	0.62
1:H:263:PRO:HG2	1:H:264:ASP:H	1.65	0.62
1:I:233:ASN:HD21	1:I:235:GLN:HB2	1.65	0.62
1:I:801:TYR:CG	1:I:802:PRO:HD2	2.34	0.62
1:K:680:LYS:HD2	3:O:19:TRP:CD2	2.34	0.62
3:O:104:LEU:HD21	3:P:104:LEU:HD13	0.93	0.62
1:D:208:ARG:NH1	1:D:256:GLU:HA	2.15	0.62
1:D:316:ALA:HB2	1:D:323:ASN:HA	1.82	0.62
1:E:909:ALA:HB3	1:G:544:GLU:HB2	0.62	0.62
1:G:526:GLN:NE2	1:G:531:ILE:HD11	2.15	0.62
1:G:714:TYR:O	1:G:722:THR:HA	2.00	0.62
1:J:146:THR:N	1:K:412:ASN:HD22	1.97	0.62
1:K:83:ARG:HG3	1:K:544:GLU:HB2	1.82	0.62
1:L:81:LYS:HD2	1:L:544:GLU:OE2	1.99	0.62
1:L:297:ARG:HA	1:L:508:ARG:HH21	1.65	0.62
3:P:74:ILE:CD1	3:P:78:ASP:OD2	2.44	0.62
1:A:208:ARG:NH1	1:A:256:GLU:HA	2.15	0.61
1:B:263:PRO:HG2	1:B:264:ASP:H	1.65	0.61
1:C:233:ASN:HD21	1:C:235:GLN:HB2	1.65	0.61
1:E:285:HIS:CE1	1:E:795:PRO:HD3	2.35	0.61
1:G:233:ASN:HD21	1:G:235:GLN:HB2	1.65	0.61
1:L:744:PRO:HD2	1:L:755:LEU:HD13	1.80	0.61
3:P:78:ASP:C	3:P:78:ASP:OD1	2.39	0.61
1:A:419:LEU:HD13	1:B:786:ALA:HB1	1.81	0.61
1:A:641:THR:CG2	1:A:642:ARG:H	2.02	0.61
1:B:562:ASP:OD1	1:B:565:VAL:HG23	2.00	0.61
1:D:242:ARG:HD3	1:E:396:VAL:HG21	1.82	0.61
1:H:231:LYS:HG3	1:H:258:ALA:HA	1.82	0.61
1:H:562:ASP:OD1	1:H:565:VAL:HG23	2.00	0.61
1:H:817:ARG:HD3	1:I:517:PHE:HB2	1.82	0.61
1:J:526:GLN:NE2	1:J:531:ILE:HD11	2.14	0.61
1:K:799:HIS:HE1	1:L:132:ASN:HD21	1.49	0.61
1:L:640:LEU:HD21	1:L:678:PHE:CE2	2.35	0.61
3:O:15:ARG:HH11	3:O:15:ARG:HG2	1.65	0.61
3:P:76:VAL:O	3:P:80:LEU:N	2.34	0.61
1:A:206:VAL:HG13	1:A:255:THR:HG22	1.81	0.61
1:D:419:LEU:HD13	1:E:786:ALA:HB1	1.81	0.61
1:F:634:ALA:HB1	1:F:848:GLY:HA2	1.81	0.61
1:F:762:CYS:SG	1:F:821:ARG:HG2	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:792:CYS:O	1:F:793:ARG:CG	2.47	0.61
1:G:316:ALA:HB2	1:G:323:ASN:HA	1.82	0.61
2:M:272:ILE:HD12	2:M:314:TYR:HB3	1.81	0.61
1:B:817:ARG:HD3	1:C:517:PHE:HB2	1.82	0.61
1:C:402:GLN:O	1:C:403:TRP:HE3	1.83	0.61
1:D:337:TYR:HD1	1:D:532:ARG:HH22	1.49	0.61
1:D:426:LEU:HD11	1:E:426:LEU:HD23	1.82	0.61
1:G:146:THR:N	1:H:412:ASN:HD22	1.97	0.61
1:G:562:ASP:OD1	1:G:565:VAL:HG23	2.01	0.61
1:J:132:ASN:HD21	1:L:799:HIS:HE1	1.48	0.61
1:J:242:ARG:HD3	1:K:396:VAL:HG21	1.82	0.61
1:J:272:PRO:HG2	1:J:276:ARG:HA	1.81	0.61
2:M:212:THR:HG21	2:M:276:MET:CE	2.30	0.61
3:N:78:ASP:C	3:N:78:ASP:OD1	2.39	0.61
3:Q:16:LEU:CG	3:Q:17:PRO:HD2	2.31	0.61
1:A:146:THR:N	1:B:412:ASN:HD22	1.97	0.61
1:A:801:TYR:CG	1:A:802:PRO:HD2	2.36	0.61
1:B:233:ASN:HD21	1:B:235:GLN:HB2	1.65	0.61
1:B:799:HIS:HE1	1:C:132:ASN:HD21	1.49	0.61
1:B:813:ARG:CZ	1:C:261:LEU:HB2	2.31	0.61
1:D:714:TYR:O	1:D:722:THR:HA	2.00	0.61
1:G:801:TYR:CG	1:G:802:PRO:HD2	2.36	0.61
1:H:67:ARG:HH11	1:H:576:ASN:HD22	1.48	0.61
1:K:744:PRO:HD2	1:K:755:LEU:HD13	1.81	0.61
1:L:133:THR:HB	1:L:212:GLN:HE21	1.66	0.61
2:M:139:VAL:O	2:M:155:PHE:CE2	2.54	0.61
3:N:15:ARG:CG	3:N:15:ARG:NH1	2.45	0.61
3:O:27:THR:HG23	3:O:68:ASP:HB3	1.83	0.61
3:P:23:VAL:O	3:P:39:PRO:HG2	2.00	0.61
3:P:33:GLY:HA2	3:P:55:ARG:HA	1.81	0.61
1:B:473:SER:CB	1:B:792:CYS:HB2	2.25	0.61
1:C:188:ILE:HD12	1:C:194:GLY:HA3	1.83	0.61
1:C:562:ASP:OD1	1:C:565:VAL:HG23	2.00	0.61
1:D:206:VAL:HG13	1:D:255:THR:HG22	1.81	0.61
1:D:562:ASP:OD1	1:D:565:VAL:HG23	2.01	0.61
1:E:233:ASN:HD21	1:E:235:GLN:HB2	1.65	0.61
1:F:9:GLN:OE1	4:R:34:PHE:O	2.19	0.61
1:F:133:THR:HB	1:F:212:GLN:HE21	1.66	0.61
1:G:147:ILE:O	1:G:147:ILE:HG13	1.98	0.61
1:G:426:LEU:HD11	1:H:426:LEU:HD23	1.83	0.61
1:H:285:HIS:CE1	1:H:795:PRO:HD3	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:271:VAL:HG21	1:I:283:SER:HB3	1.82	0.61
3:N:89:LEU:HD12	3:O:87:MET:HE3	1.81	0.61
1:A:109:ARG:HH22	1:A:512:LEU:HB2	1.63	0.61
1:A:147:ILE:HG13	1:A:147:ILE:O	1.98	0.61
1:A:881:VAL:HG12	1:A:903:PRO:HD2	1.80	0.61
1:C:133:THR:HB	1:C:212:GLN:HE21	1.66	0.61
1:C:640:LEU:HD13	1:C:864:PHE:CE2	2.36	0.61
1:D:640:LEU:HD11	1:D:875:LEU:HD11	1.83	0.61
1:D:801:TYR:CG	1:D:802:PRO:HD2	2.36	0.61
1:E:83:ARG:HG3	1:E:544:GLU:HB2	1.82	0.61
1:F:233:ASN:HD21	1:F:235:GLN:HB2	1.65	0.61
1:I:618:ILE:HG12	1:I:625:LEU:CD1	2.31	0.61
1:J:316:ALA:HB2	1:J:323:ASN:HA	1.82	0.61
1:K:564:ARG:HG2	3:P:31:MET:C	2.18	0.61
1:L:389:ILE:HD12	1:L:389:ILE:O	2.01	0.61
2:M:122:TYR:HB3	2:M:467:LYS:HB3	1.81	0.61
3:N:8:TYR:HB3	3:N:9:VAL:HG23	1.82	0.61
3:N:55:ARG:CG	3:N:56:ASP:OD1	2.48	0.61
1:A:233:ASN:HD21	1:A:235:GLN:HB2	1.65	0.61
1:E:891:HIS:CE1	4:R:27:TYR:CD1	2.89	0.61
1:G:337:TYR:HD1	1:G:532:ARG:HH22	1.49	0.61
1:H:526:GLN:NE2	1:H:531:ILE:HD11	2.16	0.61
1:I:389:ILE:HD12	1:I:389:ILE:O	2.01	0.61
1:I:640:LEU:HD11	1:I:875:LEU:HD11	1.83	0.61
1:J:618:ILE:HG12	1:J:625:LEU:CD1	2.31	0.61
1:J:640:LEU:HD11	1:J:875:LEU:HD11	1.83	0.61
1:J:801:TYR:CG	1:J:802:PRO:HD2	2.36	0.61
1:K:67:ARG:HH11	1:K:576:ASN:HD22	1.48	0.61
2:M:141:MET:HE1	2:M:177:ILE:HG23	1.81	0.61
3:N:16:LEU:CG	3:N:17:PRO:HD2	2.31	0.61
3:O:58:LEU:O	3:O:59:HIS:ND1	2.34	0.61
3:P:27:THR:HG23	3:P:68:ASP:HB3	1.83	0.61
3:Q:8:TYR:CD1	3:Q:8:TYR:N	2.69	0.61
3:Q:27:THR:HG23	3:Q:68:ASP:HB3	1.83	0.61
3:Q:33:GLY:HA2	3:Q:55:ARG:HA	1.81	0.61
1:A:156:ILE:HD12	1:A:164:GLN:HE21	1.65	0.61
1:A:337:TYR:HD1	1:A:532:ARG:HH22	1.49	0.61
1:C:297:ARG:HA	1:C:508:ARG:HH21	1.65	0.61
1:D:124:PHE:HB2	1:F:784:THR:HG21	1.83	0.61
1:D:640:LEU:HD13	1:D:864:PHE:CE2	2.36	0.61
1:E:813:ARG:CZ	1:F:261:LEU:HB2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:132:ASN:HD21	1:I:799:HIS:HE1	1.48	0.61
1:I:188:ILE:HD12	1:I:194:GLY:HA3	1.83	0.61
1:I:526:GLN:NE2	1:I:531:ILE:HD11	2.16	0.61
1:K:263:PRO:HG2	1:K:264:ASP:H	1.65	0.61
3:Q:25:ASP:H	3:Q:38:PRO:HB2	1.66	0.61
1:A:242:ARG:HD3	1:B:396:VAL:HG21	1.82	0.61
1:B:208:ARG:NH1	1:B:256:GLU:HA	2.16	0.61
1:D:688:SER:CB	1:J:67:ARG:O	2.46	0.61
1:E:817:ARG:HD3	1:F:517:PHE:HB2	1.82	0.61
1:F:389:ILE:HD12	1:F:389:ILE:O	2.01	0.61
1:F:562:ASP:OD1	1:F:565:VAL:HG23	2.00	0.61
1:G:156:ILE:HD12	1:G:164:GLN:HE21	1.65	0.61
1:H:9:GLN:NE2	4:R:31:MET:HG3	2.12	0.61
1:H:208:ARG:NH1	1:H:256:GLU:HA	2.16	0.61
1:J:714:TYR:O	1:J:722:THR:HA	2.00	0.61
1:L:233:ASN:HD21	1:L:235:GLN:HB2	1.65	0.61
1:L:562:ASP:OD1	1:L:565:VAL:HG23	2.01	0.61
3:O:8:TYR:HB3	3:O:9:VAL:HG23	1.81	0.61
3:O:16:LEU:CG	3:O:17:PRO:HD2	2.31	0.61
3:O:78:ASP:C	3:O:78:ASP:OD1	2.39	0.61
3:O:89:LEU:CD1	3:P:87:MET:CE	2.78	0.61
3:P:35:VAL:HG13	3:P:64:ARG:HA	1.81	0.61
3:Q:58:LEU:O	3:Q:59:HIS:ND1	2.34	0.61
1:A:562:ASP:OD1	1:A:565:VAL:HG23	2.01	0.60
1:B:497:PHE:CD2	1:B:671:THR:HB	2.37	0.60
1:D:188:ILE:HD12	1:D:194:GLY:HA3	1.83	0.60
1:E:562:ASP:OD1	1:E:565:VAL:HG23	2.00	0.60
1:F:526:GLN:NE2	1:F:531:ILE:HD11	2.16	0.60
1:H:640:LEU:HD13	1:H:864:PHE:CE2	2.36	0.60
1:J:156:ILE:HD12	1:J:164:GLN:HE21	1.65	0.60
1:J:389:ILE:HD12	1:J:389:ILE:O	2.01	0.60
1:C:389:ILE:O	1:C:389:ILE:HD12	2.01	0.60
1:F:188:ILE:HD12	1:F:194:GLY:HA3	1.83	0.60
1:G:142:HIS:HB3	1:H:409:SER:OG	2.01	0.60
1:G:271:VAL:HB	1:G:272:PRO:CD	2.29	0.60
1:I:161:ASN:O	1:I:162:ASP:HB3	2.02	0.60
1:I:562:ASP:OD1	1:I:565:VAL:HG23	2.01	0.60
1:K:77:GLN:NE2	3:P:52:GLU:OE1	2.33	0.60
1:K:628:PRO:CG	3:P:12:VAL:HG11	2.31	0.60
1:L:147:ILE:HG13	1:L:147:ILE:O	2.00	0.60
1:L:640:LEU:HD13	1:L:864:PHE:CE2	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:23:VAL:O	3:N:39:PRO:HG2	2.00	0.60
3:N:58:LEU:O	3:N:59:HIS:ND1	2.34	0.60
3:O:25:ASP:H	3:O:38:PRO:HB2	1.66	0.60
3:O:33:GLY:HA2	3:O:55:ARG:HA	1.81	0.60
3:O:34:GLY:HA3	3:O:64:ARG:HH11	1.64	0.60
1:A:426:LEU:HD11	1:B:426:LEU:HD23	1.83	0.60
1:B:689:VAL:HG13	1:D:906:ALA:HB3	1.80	0.60
1:D:618:ILE:HG12	1:D:625:LEU:CD1	2.31	0.60
1:E:309:GLY:CA	1:G:654:PRO:CD	2.54	0.60
1:G:139:ASN:O	1:G:140:ASN:CB	2.49	0.60
1:G:640:LEU:HD11	1:G:875:LEU:HD11	1.83	0.60
1:J:109:ARG:HH22	1:J:512:LEU:HB2	1.63	0.60
1:J:562:ASP:OD1	1:J:565:VAL:HG23	2.01	0.60
1:K:562:ASP:OD1	1:K:565:VAL:HG23	2.00	0.60
2:M:92:ASN:ND2	2:M:95:PHE:CE2	2.68	0.60
3:N:76:VAL:O	3:N:80:LEU:N	2.34	0.60
3:O:35:VAL:HG13	3:O:64:ARG:HA	1.81	0.60
3:P:16:LEU:CG	3:P:17:PRO:HD2	2.31	0.60
3:P:58:LEU:O	3:P:59:HIS:ND1	2.34	0.60
3:Q:65:ARG:CA	3:Q:65:ARG:HH11	2.14	0.60
1:A:652:GLY:O	2:M:75:THR:O	2.20	0.60
1:B:67:ARG:HH11	1:B:576:ASN:HD22	1.48	0.60
1:B:909:ALA:CB	1:J:544:GLU:CG	2.80	0.60
1:C:147:ILE:HG13	1:C:147:ILE:O	2.00	0.60
1:E:231:LYS:HG3	1:E:258:ALA:HA	1.82	0.60
1:E:640:LEU:HD13	1:E:864:PHE:CE2	2.36	0.60
1:F:640:LEU:HD13	1:F:864:PHE:CE2	2.36	0.60
1:H:813:ARG:CZ	1:I:261:LEU:HB2	2.31	0.60
1:I:147:ILE:HG13	1:I:147:ILE:O	2.00	0.60
1:I:297:ARG:HA	1:I:508:ARG:HH21	1.65	0.60
1:J:346:ASP:OD1	1:J:348:SER:HB3	2.02	0.60
1:K:618:ILE:HG12	1:K:625:LEU:CD1	2.32	0.60
1:L:271:VAL:HB	1:L:272:PRO:CD	2.28	0.60
1:L:451:PRO:HB2	1:L:454:ILE:HD12	1.83	0.60
3:O:55:ARG:CG	3:O:56:ASP:OD1	2.49	0.60
3:Q:23:VAL:O	3:Q:39:PRO:HG2	2.00	0.60
1:A:396:VAL:HG21	1:C:242:ARG:HD3	1.84	0.60
1:C:451:PRO:HB2	1:C:454:ILE:HD12	1.83	0.60
1:D:784:THR:HG21	1:E:124:PHE:HB2	1.83	0.60
1:J:396:VAL:HG21	1:L:242:ARG:HD3	1.84	0.60
1:L:67:ARG:HH11	1:L:576:ASN:HD22	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:497:PHE:CD2	1:L:671:THR:HB	2.37	0.60
2:M:140:LYS:O	2:M:235:CYS:HB2	2.01	0.60
2:M:350:TRP:CZ3	2:M:454:LEU:HD21	2.36	0.60
3:O:23:VAL:O	3:O:39:PRO:HG2	2.00	0.60
1:A:330:ASP:HB3	1:A:901:ARG:HH22	1.67	0.60
1:B:890:PRO:CG	1:J:909:ALA:HB3	2.32	0.60
1:C:618:ILE:HG12	1:C:625:LEU:CD1	2.31	0.60
1:D:132:ASN:HD21	1:F:799:HIS:HE1	1.48	0.60
1:D:394:HIS:NE2	1:D:410:ASP:HB3	2.16	0.60
1:E:526:GLN:NE2	1:E:531:ILE:HD11	2.16	0.60
1:E:618:ILE:HG12	1:E:625:LEU:CD1	2.32	0.60
1:F:402:GLN:O	1:F:403:TRP:HE3	1.83	0.60
1:F:743:LEU:HD23	1:F:755:LEU:HD11	1.84	0.60
1:G:124:PHE:HB2	1:I:784:THR:HG21	1.83	0.60
1:G:242:ARG:HD3	1:H:396:VAL:HG21	1.82	0.60
1:G:784:THR:HG21	1:H:124:PHE:HB2	1.83	0.60
1:H:139:ASN:O	1:H:140:ASN:CB	2.50	0.60
1:I:271:VAL:HB	1:I:272:PRO:CD	2.29	0.60
1:I:640:LEU:HD13	1:I:864:PHE:CE2	2.36	0.60
1:J:124:PHE:HB2	1:L:784:THR:HG21	1.83	0.60
1:J:161:ASN:O	1:J:162:ASP:HB3	2.02	0.60
1:J:188:ILE:HD12	1:J:194:GLY:HA3	1.83	0.60
1:K:231:LYS:HG3	1:K:258:ALA:HA	1.82	0.60
1:L:161:ASN:O	1:L:162:ASP:HB3	2.02	0.60
1:L:743:LEU:HD23	1:L:755:LEU:HD11	1.84	0.60
3:O:65:ARG:HA	3:O:65:ARG:HH11	1.66	0.60
1:A:124:PHE:HB2	1:C:784:THR:HG21	1.83	0.60
1:A:618:ILE:HG12	1:A:625:LEU:CD1	2.31	0.60
1:D:389:ILE:HD12	1:D:389:ILE:O	2.02	0.60
1:E:208:ARG:NH1	1:E:256:GLU:HA	2.16	0.60
1:E:497:PHE:CD2	1:E:671:THR:HB	2.37	0.60
1:F:139:ASN:O	1:F:140:ASN:CB	2.49	0.60
1:G:640:LEU:HD13	1:G:864:PHE:CE2	2.36	0.60
1:I:67:ARG:HH11	1:I:576:ASN:HD22	1.49	0.60
1:I:133:THR:HB	1:I:212:GLN:HE21	1.66	0.60
1:I:451:PRO:HB2	1:I:454:ILE:HD12	1.83	0.60
1:K:497:PHE:CD2	1:K:671:THR:HB	2.37	0.60
1:K:526:GLN:NE2	1:K:531:ILE:HD11	2.16	0.60
1:L:640:LEU:HD11	1:L:875:LEU:HD11	1.82	0.60
3:N:90:LEU:HD23	3:O:90:LEU:CD2	1.34	0.60
3:P:75:LEU:CD2	3:P:76:VAL:HG23	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:76:VAL:O	3:Q:80:LEU:N	2.34	0.60
3:Q:78:ASP:C	3:Q:78:ASP:OD1	2.39	0.60
1:A:139:ASN:O	1:A:140:ASN:CB	2.49	0.60
1:A:389:ILE:HD12	1:A:389:ILE:O	2.02	0.60
1:B:476:ILE:CD1	1:B:480:VAL:HG21	2.32	0.60
1:B:526:GLN:NE2	1:B:531:ILE:HD11	2.16	0.60
1:B:618:ILE:HG12	1:B:625:LEU:CD1	2.32	0.60
1:C:346:ASP:OD1	1:C:348:SER:HB3	2.01	0.60
1:E:60:ARG:NH2	4:R:212:VAL:HG13	2.16	0.60
1:E:263:PRO:HG2	1:E:264:ASP:H	1.65	0.60
1:E:389:ILE:HD12	1:E:389:ILE:O	2.02	0.60
1:F:271:VAL:HB	1:F:272:PRO:CD	2.28	0.60
1:G:389:ILE:HD12	1:G:389:ILE:O	2.01	0.60
1:J:337:TYR:HD1	1:J:532:ARG:HH22	1.49	0.60
1:J:640:LEU:HD13	1:J:864:PHE:CE2	2.36	0.60
1:K:389:ILE:O	1:K:389:ILE:HD12	2.02	0.60
3:O:76:VAL:O	3:O:80:LEU:N	2.34	0.60
1:B:389:ILE:HD12	1:B:389:ILE:O	2.02	0.60
1:B:762:CYS:SG	1:B:821:ARG:HG2	2.42	0.60
1:C:526:GLN:NE2	1:C:531:ILE:HD11	2.16	0.60
1:D:640:LEU:HD21	1:D:678:PHE:CE2	2.37	0.60
1:G:394:HIS:NE2	1:G:410:ASP:HB3	2.16	0.60
1:H:346:ASP:OD1	1:H:348:SER:HB3	2.02	0.60
1:H:651:LEU:HD12	1:H:667:TYR:HE2	1.67	0.60
1:I:346:ASP:OD1	1:I:348:SER:HB3	2.01	0.60
1:I:497:PHE:CD2	1:I:671:THR:HB	2.37	0.60
1:J:784:THR:HG21	1:K:124:PHE:HB2	1.83	0.60
1:K:419:LEU:HD13	1:L:786:ALA:HB1	1.84	0.60
1:K:813:ARG:CZ	1:L:261:LEU:HB2	2.31	0.60
3:N:16:LEU:CD2	3:N:17:PRO:CD	2.71	0.60
3:N:27:THR:HG23	3:N:68:ASP:HB3	1.83	0.60
3:N:75:LEU:CD2	3:N:76:VAL:HG23	2.32	0.60
3:N:104:LEU:CD2	3:O:104:LEU:HB3	2.31	0.60
3:P:15:ARG:HD3	3:P:15:ARG:C	2.22	0.60
3:Q:15:ARG:HD3	3:Q:15:ARG:C	2.22	0.60
3:Q:77:GLU:CD	3:Q:77:GLU:H	2.03	0.60
1:A:394:HIS:NE2	1:A:410:ASP:HB3	2.16	0.60
1:B:786:ALA:O	1:B:796:ARG:HB2	2.02	0.60
1:E:651:LEU:HD12	1:E:667:TYR:HE2	1.67	0.60
1:F:147:ILE:HG13	1:F:147:ILE:O	2.00	0.60
1:F:346:ASP:OD1	1:F:348:SER:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:497:PHE:CD2	1:G:671:THR:HB	2.37	0.60
1:I:139:ASN:O	1:I:140:ASN:CB	2.49	0.60
1:K:208:ARG:NH1	1:K:256:GLU:HA	2.16	0.60
1:K:366:ARG:HE	1:K:824:LEU:HD23	1.67	0.60
1:L:242:ARG:CZ	1:L:244:GLY:HA2	2.32	0.60
2:M:228:ASP:HB2	2:M:317:TRP:HB3	1.83	0.60
3:O:75:LEU:CD2	3:O:76:VAL:HG23	2.32	0.60
1:A:161:ASN:O	1:A:162:ASP:HB3	2.02	0.59
1:B:346:ASP:OD1	1:B:348:SER:HB3	2.02	0.59
1:B:447:LEU:CD1	1:B:490:VAL:HG21	2.32	0.59
1:C:497:PHE:CD2	1:C:671:THR:HB	2.37	0.59
1:E:59:GLU:HB2	1:J:60:ARG:HD2	1.83	0.59
1:E:157:GLY:HA2	1:E:201:GLN:HG3	1.84	0.59
1:E:366:ARG:HE	1:E:824:LEU:HD23	1.67	0.59
1:G:242:ARG:CZ	1:G:244:GLY:HA2	2.32	0.59
1:G:396:VAL:HG21	1:I:242:ARG:HD3	1.84	0.59
1:G:618:ILE:HG12	1:G:625:LEU:CD1	2.31	0.59
1:G:863:THR:HG23	1:L:909:ALA:HB2	1.84	0.59
1:H:83:ARG:HG3	1:H:544:GLU:HB2	1.82	0.59
1:H:366:ARG:HE	1:H:824:LEU:HD23	1.67	0.59
1:I:651:LEU:HD12	1:I:667:TYR:HE2	1.67	0.59
1:J:10:TRP:CE2	4:R:16:GLN:HB3	2.37	0.59
1:J:142:HIS:HB3	1:K:409:SER:OG	2.01	0.59
1:J:366:ARG:HE	1:J:824:LEU:HD23	1.67	0.59
1:K:346:ASP:OD1	1:K:348:SER:HB3	2.02	0.59
1:L:170:ARG:CG	3:P:102:ASN:ND2	2.44	0.59
2:M:271:ASN:HB2	2:M:311:GLU:CD	2.22	0.59
3:N:104:LEU:HD13	3:P:104:LEU:CD1	2.22	0.59
3:P:17:PRO:HG3	3:P:22:SER:HG	1.66	0.59
1:A:497:PHE:CD2	1:A:671:THR:HB	2.37	0.59
1:F:618:ILE:HG12	1:F:625:LEU:CD1	2.31	0.59
1:G:161:ASN:O	1:G:162:ASP:HB3	2.02	0.59
1:H:389:ILE:HD12	1:H:389:ILE:O	2.02	0.59
1:H:762:CYS:SG	1:H:821:ARG:HG2	2.42	0.59
1:J:285:HIS:CE1	1:J:795:PRO:HD3	2.37	0.59
1:J:426:LEU:HD11	1:K:426:LEU:HD23	1.83	0.59
1:J:473:SER:CB	1:J:792:CYS:HB2	2.29	0.59
1:K:139:ASN:O	1:K:140:ASN:CB	2.50	0.59
1:L:139:ASN:O	1:L:140:ASN:CB	2.49	0.59
1:L:684:GLN:HE21	1:L:687:SER:HA	1.68	0.59
3:N:9:VAL:CG2	3:N:11:TYR:OH	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:90:LEU:CD2	3:O:90:LEU:HD13	2.23	0.59
3:Q:75:LEU:CD2	3:Q:76:VAL:HG23	2.32	0.59
1:A:271:VAL:HG21	1:A:283:SER:HB3	1.84	0.59
1:C:139:ASN:O	1:C:140:ASN:CB	2.49	0.59
1:C:161:ASN:O	1:C:162:ASP:HB3	2.02	0.59
1:C:640:LEU:HD11	1:C:875:LEU:HD11	1.82	0.59
1:D:330:ASP:HB3	1:D:901:ARG:HH22	1.67	0.59
1:E:139:ASN:O	1:E:140:ASN:HB2	2.03	0.59
1:E:419:LEU:HD13	1:F:786:ALA:HB1	1.84	0.59
1:G:109:ARG:HH22	1:G:512:LEU:HB2	1.63	0.59
1:G:366:ARG:HE	1:G:824:LEU:HD23	1.67	0.59
1:H:157:GLY:HA2	1:H:201:GLN:HG3	1.84	0.59
1:I:83:ARG:HG3	1:I:544:GLU:HB2	1.84	0.59
1:I:242:ARG:CZ	1:I:244:GLY:HA2	2.32	0.59
1:I:402:GLN:O	1:I:403:TRP:HE3	1.83	0.59
1:J:168:ASP:CB	1:J:174:VAL:HB	2.31	0.59
1:K:762:CYS:SG	1:K:821:ARG:HG2	2.42	0.59
1:L:188:ILE:HD12	1:L:194:GLY:HA3	1.83	0.59
3:N:65:ARG:CA	3:N:65:ARG:HH11	2.14	0.59
3:P:24:GLN:C	3:P:25:ASP:OD1	2.41	0.59
3:P:65:ARG:CA	3:P:65:ARG:HH11	2.14	0.59
1:A:142:HIS:HB3	1:B:409:SER:OG	2.01	0.59
1:B:157:GLY:HA2	1:B:201:GLN:HG3	1.84	0.59
1:D:139:ASN:O	1:D:140:ASN:CB	2.50	0.59
1:F:497:PHE:CD2	1:F:671:THR:HB	2.37	0.59
1:F:684:GLN:HE21	1:F:687:SER:HA	1.68	0.59
1:G:651:LEU:HD12	1:G:667:TYR:HE2	1.67	0.59
1:H:139:ASN:O	1:H:140:ASN:HB2	2.03	0.59
1:H:618:ILE:HG12	1:H:625:LEU:CD1	2.32	0.59
1:J:497:PHE:CD2	1:J:671:THR:HB	2.37	0.59
1:J:640:LEU:HD21	1:J:678:PHE:CE2	2.37	0.59
1:K:157:GLY:HA2	1:K:201:GLN:HG3	1.84	0.59
1:K:476:ILE:CD1	1:K:480:VAL:HG21	2.32	0.59
1:K:817:ARG:HD3	1:L:517:PHE:HB2	1.82	0.59
1:L:346:ASP:OD1	1:L:348:SER:HB3	2.01	0.59
2:M:214:LEU:CG	2:M:310:ASN:HD21	2.08	0.59
3:N:57:ASN:HB3	3:N:63:ALA:H	1.67	0.59
3:N:90:LEU:HG	3:O:90:LEU:HD11	1.79	0.59
3:O:24:GLN:C	3:O:25:ASP:OD1	2.41	0.59
3:P:57:ASN:HB3	3:P:63:ALA:H	1.67	0.59
3:Q:55:ARG:CG	3:Q:56:ASP:OD1	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:LEU:HB2	1:C:813:ARG:CZ	2.32	0.59
1:A:630:ARG:HB2	1:A:858:HIS:O	2.03	0.59
1:B:139:ASN:O	1:B:140:ASN:CB	2.50	0.59
1:B:632:TRP:HB2	1:J:321:GLN:CD	1.87	0.59
1:D:142:HIS:HB3	1:E:409:SER:OG	2.01	0.59
1:E:139:ASN:O	1:E:140:ASN:CB	2.50	0.59
1:E:156:ILE:HD12	1:E:164:GLN:HE21	1.68	0.59
1:F:67:ARG:HH11	1:F:576:ASN:HD22	1.49	0.59
1:G:188:ILE:HD12	1:G:194:GLY:HA3	1.83	0.59
1:H:419:LEU:HD13	1:I:786:ALA:HB1	1.84	0.59
1:H:497:PHE:CD2	1:H:671:THR:HB	2.37	0.59
1:J:271:VAL:HG21	1:J:283:SER:HB3	1.85	0.59
1:J:330:ASP:HB3	1:J:901:ARG:HH22	1.67	0.59
1:K:395:GLU:OE1	1:K:395:GLU:N	2.33	0.59
1:K:640:LEU:HD13	1:K:864:PHE:CE2	2.36	0.59
1:L:402:GLN:O	1:L:403:TRP:HE3	1.83	0.59
1:L:618:ILE:HG12	1:L:625:LEU:CD1	2.31	0.59
2:M:359:PRO:HG2	2:M:373:VAL:O	2.02	0.59
3:P:25:ASP:H	3:P:38:PRO:HB2	1.66	0.59
1:A:124:PHE:HB2	1:C:784:THR:CG2	2.33	0.59
1:A:285:HIS:CE1	1:A:795:PRO:HD3	2.37	0.59
1:A:640:LEU:HD13	1:A:864:PHE:CE2	2.36	0.59
1:C:242:ARG:CZ	1:C:244:GLY:HA2	2.32	0.59
1:D:285:HIS:CE1	1:D:795:PRO:HD3	2.37	0.59
1:D:497:PHE:CD2	1:D:671:THR:HB	2.37	0.59
1:E:451:PRO:HB2	1:E:454:ILE:HD12	1.85	0.59
1:E:762:CYS:SG	1:E:821:ARG:HG2	2.42	0.59
1:G:285:HIS:CE1	1:G:795:PRO:HD3	2.37	0.59
1:G:451:PRO:HB2	1:G:454:ILE:HD12	1.85	0.59
1:I:684:GLN:HE21	1:I:687:SER:HA	1.68	0.59
1:J:139:ASN:O	1:J:140:ASN:CB	2.49	0.59
1:J:242:ARG:CZ	1:J:244:GLY:HA2	2.32	0.59
1:K:599:ASP:HB3	1:K:888:HIS:HE2	1.68	0.59
1:K:650:ALA:CB	3:P:20:SER:CB	2.80	0.59
3:N:72:TYR:O	3:N:73:MET:CG	2.51	0.59
3:O:9:VAL:CG2	3:O:11:TYR:OH	2.50	0.59
4:R:207:VAL:HG13	4:R:208:TYR:H	1.68	0.59
1:A:346:ASP:OD1	1:A:348:SER:HB3	2.02	0.59
1:A:640:LEU:HD21	1:A:678:PHE:CE2	2.37	0.59
1:B:180:TYR:CG	1:B:226:HIS:HB3	2.38	0.59
1:B:230:THR:O	1:B:231:LYS:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:640:LEU:HD11	1:B:875:LEU:HD11	1.85	0.59
1:D:124:PHE:HB2	1:F:784:THR:CG2	2.33	0.59
1:D:366:ARG:HE	1:D:824:LEU:HD23	1.67	0.59
1:F:242:ARG:CZ	1:F:244:GLY:HA2	2.32	0.59
1:F:451:PRO:HB2	1:F:454:ILE:HD12	1.83	0.59
1:G:307:ASN:HD21	1:G:333:THR:N	1.94	0.59
1:G:630:ARG:HB2	1:G:858:HIS:O	2.03	0.59
1:H:786:ALA:O	1:H:796:ARG:HB2	2.02	0.59
1:K:451:PRO:HB2	1:K:454:ILE:HD12	1.85	0.59
1:L:156:ILE:HD12	1:L:164:GLN:HE21	1.67	0.59
1:L:526:GLN:NE2	1:L:531:ILE:HD11	2.16	0.59
3:N:89:LEU:HD12	3:O:87:MET:HE1	1.84	0.59
3:Q:9:VAL:CG2	3:Q:11:TYR:OH	2.50	0.59
3:Q:24:GLN:C	3:Q:25:ASP:OD1	2.41	0.59
1:A:188:ILE:HD12	1:A:194:GLY:HA3	1.83	0.59
1:A:366:ARG:HE	1:A:824:LEU:HD23	1.67	0.59
1:B:394:HIS:NE2	1:B:410:ASP:HB3	2.18	0.59
1:B:419:LEU:HD13	1:C:786:ALA:HB1	1.84	0.59
1:B:651:LEU:HD12	1:B:667:TYR:HE2	1.67	0.59
1:F:640:LEU:HD11	1:F:875:LEU:HD11	1.83	0.59
1:G:686:ASP:OD1	4:R:15:PRO:CD	2.51	0.59
1:I:394:HIS:NE2	1:I:410:ASP:HB3	2.18	0.59
1:J:124:PHE:HB2	1:L:784:THR:CG2	2.33	0.59
1:K:786:ALA:O	1:K:796:ARG:HB2	2.02	0.59
2:M:118:LYS:HB2	2:M:471:ILE:HD11	1.84	0.59
3:N:25:ASP:H	3:N:38:PRO:HB2	1.66	0.59
3:P:9:VAL:CG2	3:P:11:TYR:OH	2.50	0.59
3:P:55:ARG:CG	3:P:56:ASP:OD1	2.49	0.59
1:A:282:LEU:H	1:A:282:LEU:HD12	1.68	0.59
1:A:801:TYR:CD1	1:A:802:PRO:HD2	2.38	0.59
1:C:651:LEU:HD12	1:C:667:TYR:HE2	1.67	0.59
1:C:672:PHE:CE2	1:C:829:LEU:HD21	2.38	0.59
1:C:743:LEU:HD23	1:C:755:LEU:HD11	1.84	0.59
1:D:83:ARG:HG3	1:D:544:GLU:HB2	1.85	0.59
1:D:242:ARG:HG3	1:D:244:GLY:N	2.18	0.59
1:E:599:ASP:HB3	1:E:888:HIS:HE2	1.68	0.59
1:E:799:HIS:HE1	1:F:132:ASN:HD21	1.49	0.59
1:I:156:ILE:HD12	1:I:164:GLN:HE21	1.67	0.59
1:A:640:LEU:HD11	1:A:875:LEU:HD11	1.83	0.59
1:B:156:ILE:HD12	1:B:164:GLN:HE21	1.68	0.59
1:B:432:ARG:HD3	1:C:124:PHE:CZ	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:640:LEU:HD13	1:B:864:PHE:CE2	2.36	0.59
1:D:396:VAL:HG21	1:F:242:ARG:HD3	1.84	0.59
1:D:801:TYR:CD1	1:D:802:PRO:HD2	2.38	0.59
1:F:447:LEU:CD1	1:F:490:VAL:HG21	2.33	0.59
1:F:651:LEU:HD12	1:F:667:TYR:HE2	1.68	0.59
1:G:168:ASP:CB	1:G:174:VAL:HB	2.31	0.59
1:H:156:ILE:HD12	1:H:164:GLN:HE21	1.68	0.59
1:I:447:LEU:CD1	1:I:490:VAL:HG21	2.33	0.59
1:J:242:ARG:HG3	1:J:244:GLY:N	2.18	0.59
1:J:271:VAL:HB	1:J:272:PRO:CD	2.29	0.59
1:J:282:LEU:H	1:J:282:LEU:HD12	1.68	0.59
1:J:394:HIS:NE2	1:J:410:ASP:HB3	2.16	0.59
1:L:263:PRO:HG2	1:L:264:ASP:H	1.68	0.59
3:P:35:VAL:H	3:P:64:ARG:HD3	1.67	0.59
3:Q:15:ARG:HH11	3:Q:15:ARG:HG2	1.65	0.59
1:A:242:ARG:HG3	1:A:244:GLY:N	2.18	0.58
1:C:476:ILE:CD1	1:C:480:VAL:HG21	2.33	0.58
1:D:161:ASN:O	1:D:162:ASP:HB3	2.02	0.58
1:E:447:LEU:CD1	1:E:490:VAL:HG21	2.32	0.58
1:E:476:ILE:CD1	1:E:480:VAL:HG21	2.32	0.58
1:F:161:ASN:O	1:F:162:ASP:HB3	2.01	0.58
1:G:208:ARG:NH1	1:G:256:GLU:HA	2.15	0.58
1:G:640:LEU:HD21	1:G:678:PHE:CE2	2.37	0.58
1:H:640:LEU:HD11	1:H:875:LEU:HD11	1.84	0.58
1:K:180:TYR:CG	1:K:226:HIS:HB3	2.38	0.58
1:K:394:HIS:NE2	1:K:410:ASP:HB3	2.18	0.58
1:K:640:LEU:HD21	1:K:678:PHE:CE2	2.38	0.58
1:A:180:TYR:CG	1:A:226:HIS:HB3	2.39	0.58
1:A:271:VAL:HB	1:A:272:PRO:CD	2.29	0.58
1:A:399:ASN:ND2	1:A:400:GLN:HE21	2.01	0.58
1:B:161:ASN:O	1:B:162:ASP:HB3	2.03	0.58
1:C:67:ARG:HH11	1:C:576:ASN:HD22	1.49	0.58
1:C:156:ILE:HD12	1:C:164:GLN:HE21	1.67	0.58
1:D:398:ARG:HB3	1:D:403:TRP:CE2	2.38	0.58
1:E:320:SER:HB2	1:G:909:ALA:HB2	1.85	0.58
1:F:83:ARG:HG3	1:F:544:GLU:HB2	1.84	0.58
1:F:399:ASN:ND2	1:F:400:GLN:HE21	2.01	0.58
1:F:672:PHE:CE2	1:F:829:LEU:HD21	2.38	0.58
1:G:124:PHE:HB2	1:I:784:THR:CG2	2.33	0.58
1:G:242:ARG:HH11	1:H:396:VAL:CG2	2.16	0.58
1:G:447:LEU:CD1	1:G:490:VAL:HG21	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:432:ARG:HD3	1:I:124:PHE:CZ	2.39	0.58
1:H:640:LEU:HD21	1:H:678:PHE:CE2	2.38	0.58
1:J:476:ILE:CD1	1:J:480:VAL:HG21	2.33	0.58
1:L:347:ARG:HH21	1:L:356:GLN:HG3	1.68	0.58
1:L:651:LEU:HD12	1:L:667:TYR:HE2	1.67	0.58
3:N:24:GLN:C	3:N:25:ASP:OD1	2.41	0.58
3:N:83:LEU:HD21	3:O:83:LEU:CD1	2.32	0.58
4:R:206:ASN:H	4:R:206:ASN:ND2	1.99	0.58
1:A:447:LEU:CD1	1:A:490:VAL:HG21	2.34	0.58
1:A:784:THR:HG21	1:B:124:PHE:HB2	1.83	0.58
1:B:451:PRO:HB2	1:B:454:ILE:HD12	1.84	0.58
1:D:71:VAL:HG22	1:D:83:ARG:O	2.04	0.58
1:D:346:ASP:OD1	1:D:348:SER:HB3	2.02	0.58
1:D:451:PRO:HB2	1:D:454:ILE:HD12	1.85	0.58
1:D:473:SER:CB	1:D:792:CYS:HB2	2.29	0.58
1:E:784:THR:CG2	1:F:124:PHE:HB2	2.33	0.58
1:E:786:ALA:O	1:E:796:ARG:HB2	2.02	0.58
1:F:282:LEU:H	1:F:282:LEU:HD12	1.68	0.58
1:G:330:ASP:HB3	1:G:901:ARG:HH22	1.67	0.58
1:G:346:ASP:OD1	1:G:348:SER:HB3	2.02	0.58
1:H:161:ASN:O	1:H:162:ASP:HB3	2.04	0.58
1:I:672:PHE:CE2	1:I:829:LEU:HD21	2.38	0.58
1:J:208:ARG:NH1	1:J:256:GLU:HA	2.15	0.58
1:K:447:LEU:CD1	1:K:490:VAL:HG21	2.32	0.58
1:K:640:LEU:HD11	1:K:875:LEU:HD11	1.85	0.58
1:L:242:ARG:HG3	1:L:244:GLY:N	2.18	0.58
2:M:139:VAL:CG2	2:M:197:VAL:HG21	2.34	0.58
3:O:86:ARG:HE	3:P:87:MET:HG3	1.69	0.58
1:A:242:ARG:CZ	1:A:244:GLY:HA2	2.33	0.58
1:B:139:ASN:O	1:B:140:ASN:HB2	2.03	0.58
1:C:447:LEU:CD1	1:C:490:VAL:HG21	2.33	0.58
1:D:242:ARG:CZ	1:D:244:GLY:HA2	2.32	0.58
1:D:282:LEU:HD12	1:D:282:LEU:H	1.68	0.58
1:E:67:ARG:HH11	1:E:576:ASN:HD22	1.48	0.58
1:E:180:TYR:CG	1:E:226:HIS:HB3	2.38	0.58
1:E:346:ASP:OD1	1:E:348:SER:HB3	2.02	0.58
1:E:432:ARG:HD3	1:F:124:PHE:CZ	2.39	0.58
1:F:156:ILE:HD12	1:F:164:GLN:HE21	1.68	0.58
1:H:599:ASP:HB3	1:H:888:HIS:HE2	1.68	0.58
1:I:347:ARG:HH21	1:I:356:GLN:HG3	1.68	0.58
1:I:599:ASP:HB3	1:I:888:HIS:HE2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:743:LEU:HD23	1:I:755:LEU:HD11	1.84	0.58
1:J:261:LEU:HB2	1:L:813:ARG:CZ	2.32	0.58
1:J:801:TYR:CD1	1:J:802:PRO:HD2	2.38	0.58
1:K:651:LEU:HD12	1:K:667:TYR:HE2	1.67	0.58
1:L:672:PHE:CE2	1:L:829:LEU:HD21	2.38	0.58
3:O:35:VAL:H	3:O:64:ARG:HD3	1.67	0.58
3:O:72:TYR:O	3:O:73:MET:CG	2.51	0.58
3:Q:72:TYR:O	3:Q:73:MET:CG	2.51	0.58
1:A:71:VAL:HG22	1:A:83:ARG:O	2.04	0.58
1:A:83:ARG:HG3	1:A:544:GLU:HB2	1.85	0.58
1:B:599:ASP:HB3	1:B:888:HIS:HE2	1.68	0.58
1:D:399:ASN:ND2	1:D:400:GLN:HE21	2.02	0.58
1:E:653:SER:CB	1:G:78:TYR:CE2	2.66	0.58
1:H:230:THR:O	1:H:231:LYS:HB2	2.03	0.58
1:H:271:VAL:HB	1:H:272:PRO:CD	2.28	0.58
1:H:784:THR:CG2	1:I:124:PHE:HB2	2.34	0.58
1:I:399:ASN:ND2	1:I:400:GLN:HE21	2.01	0.58
1:J:399:ASN:ND2	1:J:400:GLN:HE21	2.02	0.58
1:K:156:ILE:HD12	1:K:164:GLN:HE21	1.68	0.58
1:L:230:THR:O	1:L:231:LYS:HB2	2.04	0.58
3:N:75:LEU:CG	3:N:76:VAL:HG23	2.34	0.58
3:O:15:ARG:HD3	3:O:15:ARG:C	2.22	0.58
1:A:476:ILE:CD1	1:A:480:VAL:HG21	2.33	0.58
1:B:640:LEU:HD21	1:B:678:PHE:CE2	2.38	0.58
1:C:347:ARG:HH21	1:C:356:GLN:HG3	1.68	0.58
1:C:714:TYR:O	1:C:722:THR:HA	2.04	0.58
1:D:109:ARG:HH22	1:D:512:LEU:HB2	1.63	0.58
1:D:261:LEU:HB2	1:F:813:ARG:CZ	2.32	0.58
1:D:788:TRP:CG	1:D:789:PHE:N	2.72	0.58
1:F:394:HIS:NE2	1:F:410:ASP:HB3	2.18	0.58
1:G:686:ASP:CG	4:R:15:PRO:HD3	2.23	0.58
1:G:856:ALA:CA	4:R:11:TRP:O	2.49	0.58
1:I:242:ARG:HG3	1:I:244:GLY:N	2.19	0.58
1:I:714:TYR:O	1:I:722:THR:HA	2.04	0.58
1:J:630:ARG:HB2	1:J:858:HIS:O	2.03	0.58
1:J:651:LEU:HD12	1:J:667:TYR:HE2	1.67	0.58
1:L:394:HIS:NE2	1:L:410:ASP:HB3	2.18	0.58
1:L:714:TYR:O	1:L:722:THR:HA	2.04	0.58
4:R:5:ILE:HG23	4:R:5:ILE:O	2.04	0.58
1:A:132:ASN:HD21	1:C:799:HIS:HE1	1.48	0.58
1:A:398:ARG:HB3	1:A:403:TRP:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:241:TYR:HB3	1:C:393:SER:OG	2.04	0.58
1:B:395:GLU:OE1	1:B:395:GLU:N	2.33	0.58
1:B:672:PHE:CE2	1:B:829:LEU:HD21	2.39	0.58
1:C:399:ASN:ND2	1:C:400:GLN:HE21	2.01	0.58
1:D:230:THR:O	1:D:231:LYS:HB2	2.03	0.58
1:D:271:VAL:HG21	1:D:283:SER:HB3	1.85	0.58
1:D:630:ARG:HB2	1:D:858:HIS:O	2.03	0.58
1:E:161:ASN:O	1:E:162:ASP:HB3	2.03	0.58
1:E:640:LEU:HD11	1:E:875:LEU:HD11	1.84	0.58
1:F:168:ASP:CB	1:F:174:VAL:HB	2.31	0.58
1:G:261:LEU:HB2	1:I:813:ARG:CZ	2.33	0.58
1:G:398:ARG:HB3	1:G:403:TRP:CE2	2.38	0.58
1:H:180:TYR:CG	1:H:226:HIS:HB3	2.38	0.58
1:H:451:PRO:HB2	1:H:454:ILE:HD12	1.85	0.58
1:I:282:LEU:H	1:I:282:LEU:HD12	1.68	0.58
1:J:180:TYR:CG	1:J:226:HIS:HB3	2.39	0.58
1:J:447:LEU:CD1	1:J:490:VAL:HG21	2.33	0.58
1:K:188:ILE:HD12	1:K:194:GLY:HA3	1.86	0.58
1:K:241:TYR:HB3	1:L:393:SER:OG	2.04	0.58
1:L:399:ASN:ND2	1:L:400:GLN:HE21	2.01	0.58
1:L:788:TRP:CG	1:L:789:PHE:N	2.72	0.58
2:M:355:MET:O	2:M:442:LEU:HD12	2.03	0.58
3:N:15:ARG:HD3	3:N:15:ARG:C	2.22	0.58
3:O:75:LEU:CG	3:O:76:VAL:HG23	2.34	0.58
3:P:29:SER:HG	3:P:34:GLY:HA2	1.61	0.58
1:B:630:ARG:NH1	1:J:83:ARG:HH21	2.02	0.58
1:C:83:ARG:HG3	1:C:544:GLU:HB2	1.85	0.58
1:C:282:LEU:H	1:C:282:LEU:HD12	1.69	0.58
1:D:263:PRO:CD	1:F:813:ARG:HH21	2.00	0.58
1:E:162:ASP:OD1	1:E:175:TYR:HB3	2.04	0.58
1:E:640:LEU:HD21	1:E:678:PHE:CE2	2.38	0.58
1:F:208:ARG:NH1	1:F:256:GLU:HA	2.18	0.58
1:F:714:TYR:O	1:F:722:THR:HA	2.04	0.58
1:G:230:THR:O	1:G:231:LYS:HB2	2.03	0.58
1:G:271:VAL:HG21	1:G:283:SER:HB3	1.85	0.58
1:G:419:LEU:HD12	1:G:419:LEU:N	2.19	0.58
1:H:146:THR:H	1:I:412:ASN:HD22	1.52	0.58
1:H:394:HIS:NE2	1:H:410:ASP:HB3	2.18	0.58
1:I:263:PRO:HG2	1:I:264:ASP:H	1.68	0.58
1:J:230:THR:O	1:J:231:LYS:HB2	2.03	0.58
1:K:161:ASN:O	1:K:162:ASP:HB3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:162:ASP:OD1	1:K:175:TYR:HB3	2.04	0.58
1:K:432:ARG:HD3	1:L:124:PHE:CZ	2.39	0.58
1:L:71:VAL:HG22	1:L:83:ARG:O	2.03	0.58
3:N:90:LEU:HD11	3:O:90:LEU:HD11	1.85	0.58
3:N:97:LEU:HD11	3:P:97:LEU:HG	1.68	0.58
3:O:39:PRO:O	3:O:40:ASN:ND2	2.37	0.58
3:O:90:LEU:CG	3:P:90:LEU:HD13	2.17	0.58
3:P:72:TYR:O	3:P:73:MET:CG	2.51	0.58
3:P:75:LEU:CG	3:P:76:VAL:HG23	2.34	0.58
3:Q:65:ARG:HA	3:Q:65:ARG:NE	2.09	0.58
4:R:50:ALA:O	4:R:54:ILE:HG13	2.04	0.58
1:A:230:THR:O	1:A:231:LYS:HB2	2.03	0.58
1:A:419:LEU:HD12	1:A:419:LEU:N	2.19	0.58
1:B:162:ASP:OD1	1:B:175:TYR:HB3	2.04	0.58
1:B:188:ILE:HD12	1:B:194:GLY:HA3	1.86	0.58
1:B:784:THR:CG2	1:C:124:PHE:HB2	2.34	0.58
1:E:230:THR:O	1:E:231:LYS:HB2	2.03	0.58
1:H:672:PHE:CE2	1:H:829:LEU:HD21	2.39	0.58
2:M:199:ILE:CD1	2:M:229:ILE:HG22	2.34	0.58
2:M:349:TYR:HD1	2:M:376:THR:HG22	1.69	0.58
3:O:57:ASN:HB3	3:O:63:ALA:H	1.67	0.58
3:O:86:ARG:NH2	3:P:84:LYS:N	2.51	0.58
3:Q:57:ASN:HB3	3:Q:63:ALA:H	1.67	0.58
1:A:909:ALA:O	2:M:94:ASP:OD1	2.21	0.58
1:B:399:ASN:ND2	1:B:400:GLN:HE21	2.02	0.58
1:B:714:TYR:O	1:B:722:THR:HA	2.04	0.58
1:C:641:THR:CG2	1:C:642:ARG:H	2.06	0.58
1:E:320:SER:HA	1:G:908:ASN:N	2.16	0.58
1:F:263:PRO:HG2	1:F:264:ASP:H	1.68	0.58
1:F:599:ASP:HB3	1:F:888:HIS:HE2	1.69	0.58
1:G:855:ASN:CG	4:R:178:VAL:HG23	2.15	0.58
1:H:399:ASN:ND2	1:H:400:GLN:HE21	2.02	0.58
1:I:617:PRO:HA	1:I:874:LEU:HD23	1.86	0.58
1:K:139:ASN:O	1:K:140:ASN:HB2	2.03	0.58
1:K:146:THR:H	1:L:412:ASN:HD22	1.52	0.58
1:K:230:THR:O	1:K:231:LYS:HB2	2.03	0.58
1:K:768:PRO:HG3	3:O:59:HIS:N	2.18	0.58
1:L:447:LEU:CD1	1:L:490:VAL:HG21	2.33	0.58
3:N:104:LEU:CD1	3:P:104:LEU:CD2	2.48	0.58
3:O:31:MET:HB3	3:O:32:LEU:CB	2.24	0.58
3:O:65:ARG:CA	3:O:65:ARG:HH11	2.14	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:15:ARG:HH11	3:P:15:ARG:HG2	1.65	0.58
3:Q:29:SER:HG	3:Q:34:GLY:HA2	1.59	0.58
1:A:451:PRO:HB2	1:A:454:ILE:HD12	1.85	0.57
1:B:442:TYR:CE2	1:B:499:HIS:HA	2.39	0.57
1:B:766:PRO:HD3	1:B:809:HIS:NE2	2.16	0.57
1:C:394:HIS:NE2	1:C:410:ASP:HB3	2.18	0.57
1:E:71:VAL:HG22	1:E:83:ARG:O	2.04	0.57
1:E:394:HIS:NE2	1:E:410:ASP:HB3	2.18	0.57
1:G:855:ASN:HD22	4:R:178:VAL:CG2	1.85	0.57
1:H:743:LEU:HD23	1:H:755:LEU:HD11	1.86	0.57
1:J:83:ARG:HG3	1:J:544:GLU:HB2	1.85	0.57
1:J:451:PRO:HB2	1:J:454:ILE:HD12	1.85	0.57
1:K:672:PHE:CE2	1:K:829:LEU:HD21	2.39	0.57
1:K:784:THR:CG2	1:L:124:PHE:HB2	2.34	0.57
1:L:441:LEU:HD23	1:L:471:PRO:HG3	1.87	0.57
1:L:552:ASN:ND2	1:L:564:ARG:HE	2.02	0.57
1:C:89:GLY:N	1:D:321:GLN:HE22	2.03	0.57
1:C:168:ASP:CB	1:C:174:VAL:HB	2.32	0.57
1:C:208:ARG:NH1	1:C:256:GLU:HA	2.18	0.57
1:C:263:PRO:HG2	1:C:264:ASP:H	1.68	0.57
1:D:180:TYR:CG	1:D:226:HIS:HB3	2.39	0.57
1:D:242:ARG:HH11	1:E:396:VAL:CG2	2.17	0.57
1:D:271:VAL:HB	1:D:272:PRO:CD	2.29	0.57
1:D:419:LEU:HD12	1:D:419:LEU:N	2.19	0.57
1:E:188:ILE:HD12	1:E:194:GLY:HA3	1.86	0.57
1:E:320:SER:HA	1:G:908:ASN:CB	2.33	0.57
1:G:788:TRP:CG	1:G:789:PHE:N	2.72	0.57
1:I:788:TRP:CG	1:I:789:PHE:N	2.72	0.57
1:J:71:VAL:HG22	1:J:83:ARG:O	2.04	0.57
1:J:419:LEU:HD12	1:J:419:LEU:N	2.19	0.57
1:J:786:ALA:HB1	1:L:419:LEU:HD13	1.87	0.57
1:J:788:TRP:CG	1:J:789:PHE:N	2.72	0.57
1:K:442:TYR:CE2	1:K:499:HIS:HA	2.39	0.57
2:M:125:LEU:HD12	2:M:126:PRO:HD2	1.86	0.57
3:O:86:ARG:NE	3:P:87:MET:HG3	2.19	0.57
3:Q:37:LEU:HD23	3:Q:59:HIS:CD2	2.39	0.57
3:Q:39:PRO:O	3:Q:40:ASN:ND2	2.37	0.57
1:A:263:PRO:HG2	1:A:264:ASP:H	1.69	0.57
1:A:651:LEU:HD12	1:A:667:TYR:HE2	1.67	0.57
1:A:788:TRP:CG	1:A:789:PHE:N	2.72	0.57
1:B:316:ALA:HB2	1:B:323:ASN:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:LEU:HD12	1:D:667:TYR:HE2	1.67	0.57
1:E:714:TYR:O	1:E:722:THR:HA	2.04	0.57
1:E:785:PRO:C	1:E:787:TYR:H	2.08	0.57
1:F:242:ARG:HG3	1:F:244:GLY:N	2.18	0.57
1:F:347:ARG:HH21	1:F:356:GLN:HG3	1.68	0.57
1:F:617:PRO:HA	1:F:874:LEU:HD23	1.86	0.57
1:F:630:ARG:HB2	1:F:858:HIS:O	2.04	0.57
1:G:857:ALA:CB	4:R:12:THR:HG22	2.34	0.57
1:K:684:GLN:HE21	1:K:687:SER:HA	1.69	0.57
1:L:366:ARG:HE	1:L:824:LEU:HD23	1.69	0.57
2:M:229:ILE:HD11	2:M:262:ILE:HD13	1.86	0.57
2:M:252:LYS:HG3	2:M:260:PHE:CE2	2.40	0.57
2:M:291:ARG:HG3	2:M:292:GLU:N	2.19	0.57
3:N:8:TYR:HD1	3:P:24:GLN:HE22	1.23	0.57
3:Q:16:LEU:HD22	3:Q:17:PRO:HD2	1.84	0.57
1:A:133:THR:HB	1:A:212:GLN:HE21	1.69	0.57
1:A:242:ARG:HH11	1:B:396:VAL:CG2	2.17	0.57
1:C:71:VAL:HG22	1:C:83:ARG:O	2.04	0.57
1:C:630:ARG:HB2	1:C:858:HIS:O	2.04	0.57
1:E:46:ARG:HH11	1:E:46:ARG:HB2	1.70	0.57
1:E:320:SER:HA	1:G:908:ASN:H	1.69	0.57
1:G:399:ASN:ND2	1:G:400:GLN:HE21	2.01	0.57
1:G:476:ILE:CD1	1:G:480:VAL:HG21	2.33	0.57
1:H:476:ILE:CD1	1:H:480:VAL:HG21	2.32	0.57
1:J:307:ASN:HD21	1:J:333:THR:N	1.94	0.57
1:K:46:ARG:HB2	1:K:46:ARG:HH11	1.70	0.57
1:K:399:ASN:ND2	1:K:400:GLN:HE21	2.02	0.57
1:L:599:ASP:HB3	1:L:888:HIS:HE2	1.69	0.57
2:M:141:MET:SD	2:M:177:ILE:HG23	2.45	0.57
1:C:242:ARG:HG3	1:C:244:GLY:N	2.18	0.57
1:C:552:ASN:ND2	1:C:564:ARG:HE	2.02	0.57
1:C:788:TRP:CG	1:C:789:PHE:N	2.72	0.57
1:D:476:ILE:CD1	1:D:480:VAL:HG21	2.33	0.57
1:E:473:SER:HB2	1:E:792:CYS:CB	2.30	0.57
1:F:641:THR:CG2	1:F:642:ARG:H	2.05	0.57
1:G:83:ARG:HG3	1:G:544:GLU:HB2	1.85	0.57
1:G:801:TYR:CD1	1:G:802:PRO:HD2	2.38	0.57
1:G:869:ILE:HG22	1:G:871:GLU:HG2	1.87	0.57
1:H:71:VAL:HG22	1:H:83:ARG:O	2.04	0.57
1:H:360:SER:H	1:H:502:ASN:ND2	2.03	0.57
1:H:714:TYR:O	1:H:722:THR:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:230:THR:O	1:I:231:LYS:HB2	2.04	0.57
1:J:242:ARG:HH11	1:K:396:VAL:CG2	2.17	0.57
1:J:398:ARG:HB3	1:J:403:TRP:CE2	2.38	0.57
1:K:242:ARG:HG3	1:K:244:GLY:N	2.20	0.57
1:L:323:ASN:HD22	1:L:324:ALA:N	2.03	0.57
2:M:267:LEU:HD23	2:M:330:VAL:HG11	1.85	0.57
2:M:308:ARG:C	2:M:309:GLU:HG2	2.24	0.57
2:M:374:VAL:HG13	2:M:440:VAL:HG21	1.85	0.57
3:N:15:ARG:HH11	3:N:15:ARG:HG2	1.65	0.57
3:P:37:LEU:HD23	3:P:59:HIS:CD2	2.39	0.57
1:B:71:VAL:HG22	1:B:83:ARG:O	2.05	0.57
1:B:443:LEU:HD23	1:B:491:MET:SD	2.45	0.57
1:D:395:GLU:OE1	1:D:395:GLU:N	2.35	0.57
1:D:442:TYR:CE2	1:D:499:HIS:HA	2.40	0.57
1:D:489:ASP:HA	1:D:492:ASP:OD2	2.05	0.57
1:F:71:VAL:HG22	1:F:83:ARG:O	2.04	0.57
1:F:788:TRP:CG	1:F:789:PHE:N	2.72	0.57
1:H:241:TYR:HB3	1:I:393:SER:OG	2.04	0.57
1:H:442:TYR:CE2	1:H:499:HIS:HA	2.39	0.57
1:H:473:SER:HB2	1:H:792:CYS:CB	2.30	0.57
1:J:185:GLN:HE21	1:L:782:ARG:HB3	1.70	0.57
1:K:768:PRO:HG2	3:O:58:LEU:CA	2.34	0.57
1:K:785:PRO:C	1:K:787:TYR:H	2.08	0.57
3:N:37:LEU:HD23	3:N:59:HIS:CD2	2.39	0.57
3:O:37:LEU:HD23	3:O:59:HIS:CD2	2.39	0.57
1:A:441:LEU:HD23	1:A:471:PRO:HG3	1.87	0.57
1:A:489:ASP:HA	1:A:492:ASP:OD2	2.05	0.57
1:A:786:ALA:HB1	1:C:419:LEU:HD13	1.87	0.57
1:B:242:ARG:CZ	1:B:244:GLY:HA2	2.35	0.57
1:B:366:ARG:HE	1:B:824:LEU:HD23	1.67	0.57
1:E:146:THR:H	1:F:412:ASN:HD22	1.52	0.57
1:E:395:GLU:OE1	1:E:395:GLU:N	2.33	0.57
1:F:441:LEU:HD23	1:F:471:PRO:HG3	1.86	0.57
1:H:316:ALA:HB2	1:H:323:ASN:HA	1.86	0.57
1:I:208:ARG:NH1	1:I:256:GLU:HA	2.18	0.57
1:I:630:ARG:HB2	1:I:858:HIS:O	2.04	0.57
1:J:489:ASP:HA	1:J:492:ASP:OD2	2.05	0.57
1:J:552:ASN:ND2	1:J:564:ARG:HE	2.03	0.57
1:K:77:GLN:NE2	3:P:52:GLU:CB	1.96	0.57
1:K:695:ASP:HA	1:K:700:PRO:HB3	1.87	0.57
1:K:766:PRO:HD3	1:K:809:HIS:NE2	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:83:ARG:HG3	1:L:544:GLU:HB2	1.85	0.57
1:L:271:VAL:CB	1:L:272:PRO:HD3	2.33	0.57
3:N:11:TYR:CB	3:O:11:TYR:CB	2.71	0.57
1:A:412:ASN:HD22	1:C:146:THR:N	2.03	0.57
1:B:169:GLU:O	1:B:170:ARG:CB	2.53	0.57
1:B:271:VAL:CB	1:B:272:PRO:HD3	2.33	0.57
1:C:67:ARG:HH22	1:D:81:LYS:NZ	1.93	0.57
1:C:230:THR:O	1:C:231:LYS:HB2	2.04	0.57
1:C:316:ALA:HB2	1:C:323:ASN:HA	1.87	0.57
1:C:323:ASN:HD22	1:C:324:ALA:N	2.03	0.57
1:C:684:GLN:HE21	1:C:687:SER:HA	1.68	0.57
1:D:133:THR:HB	1:D:212:GLN:HE21	1.69	0.57
1:E:630:ARG:HB2	1:E:858:HIS:O	2.05	0.57
1:E:766:PRO:HD3	1:E:809:HIS:NE2	2.16	0.57
1:G:133:THR:HB	1:G:212:GLN:HE21	1.69	0.57
1:G:180:TYR:CG	1:G:226:HIS:HB3	2.39	0.57
1:G:552:ASN:ND2	1:G:564:ARG:HE	2.03	0.57
1:G:617:PRO:HA	1:G:874:LEU:HD23	1.87	0.57
1:G:684:GLN:HE21	1:G:687:SER:HA	1.70	0.57
1:H:162:ASP:OD1	1:H:175:TYR:HB3	2.04	0.57
1:H:799:HIS:HE1	1:I:132:ASN:HD21	1.49	0.57
1:I:71:VAL:HG22	1:I:83:ARG:O	2.04	0.57
1:J:323:ASN:HD22	1:J:324:ALA:N	2.03	0.57
1:K:743:LEU:HD23	1:K:755:LEU:HD11	1.86	0.57
1:L:316:ALA:HB2	1:L:323:ASN:HA	1.87	0.57
2:M:208:TYR:OH	2:M:213:GLN:HG3	2.05	0.57
3:P:31:MET:CB	3:P:32:LEU:HB3	2.28	0.57
4:R:23:ALA:HB3	4:R:201:PHE:HD1	1.69	0.57
4:R:207:VAL:HG13	4:R:208:TYR:N	2.20	0.57
1:A:151:SER:HB2	1:B:417:GLY:O	2.05	0.57
1:A:617:PRO:HA	1:A:874:LEU:HD23	1.87	0.57
1:B:785:PRO:C	1:B:787:TYR:H	2.08	0.57
1:D:151:SER:HB2	1:E:417:GLY:O	2.05	0.57
1:D:323:ASN:HD22	1:D:324:ALA:N	2.03	0.57
1:D:876:TYR:CZ	1:D:878:LEU:HD21	2.40	0.57
1:E:169:GLU:O	1:E:170:ARG:CB	2.53	0.57
1:E:242:ARG:CZ	1:E:244:GLY:HA2	2.35	0.57
1:E:672:PHE:CE2	1:E:829:LEU:HD21	2.39	0.57
1:F:316:ALA:HB2	1:F:323:ASN:HA	1.87	0.57
1:F:366:ARG:HE	1:F:824:LEU:HD23	1.69	0.57
1:G:263:PRO:HG2	1:G:264:ASP:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:180:TYR:CG	1:I:226:HIS:HB3	2.40	0.57
1:I:695:ASP:HA	1:I:700:PRO:HB3	1.86	0.57
1:J:876:TYR:CZ	1:J:878:LEU:HD21	2.40	0.57
1:L:630:ARG:HB2	1:L:858:HIS:O	2.04	0.57
1:L:852:LEU:HD22	4:R:213:SER:HB2	1.76	0.57
2:M:219:VAL:HG23	2:M:414:GLN:NE2	2.19	0.57
3:N:77:GLU:CD	3:N:77:GLU:H	2.03	0.57
3:N:94:ASN:OD1	3:P:93:SER:HB2	2.04	0.57
1:B:242:ARG:HG3	1:B:244:GLY:N	2.20	0.57
1:B:309:GLY:C	1:J:654:PRO:CG	2.74	0.57
1:C:139:ASN:O	1:C:140:ASN:HB2	2.05	0.57
1:C:441:LEU:HD23	1:C:471:PRO:HG3	1.87	0.57
1:D:168:ASP:CB	1:D:174:VAL:HB	2.31	0.57
1:E:242:ARG:HG3	1:E:244:GLY:N	2.20	0.57
1:E:316:ALA:HB2	1:E:323:ASN:HA	1.86	0.57
1:E:323:ASN:HD22	1:E:324:ALA:N	2.03	0.57
1:E:360:SER:H	1:E:502:ASN:ND2	2.03	0.57
1:H:242:ARG:CZ	1:H:244:GLY:HA2	2.35	0.57
1:H:396:VAL:HG13	1:H:404:GLN:C	2.26	0.57
1:H:447:LEU:CD1	1:H:490:VAL:HG21	2.32	0.57
1:H:630:ARG:HB2	1:H:858:HIS:O	2.05	0.57
1:H:790:ARG:HD3	1:I:186:LEU:HG	1.87	0.57
1:I:366:ARG:HE	1:I:824:LEU:HD23	1.69	0.57
1:J:133:THR:HB	1:J:212:GLN:HE21	1.69	0.57
1:K:316:ALA:HB2	1:K:323:ASN:HA	1.86	0.57
1:K:710:ASP:OD1	1:K:711:GLY:N	2.38	0.57
1:L:489:ASP:HA	1:L:492:ASP:OD2	2.05	0.57
2:M:96:THR:HG23	2:M:97:PRO:HD2	1.86	0.57
2:M:118:LYS:O	2:M:471:ILE:HG12	2.05	0.57
3:N:69:GLN:HE21	3:O:4:GLU:N	2.03	0.57
3:O:89:LEU:CD1	3:P:87:MET:HE3	2.35	0.57
3:P:8:TYR:CD1	3:P:8:TYR:N	2.69	0.57
1:A:672:PHE:CE2	1:A:829:LEU:HD21	2.40	0.56
1:B:360:SER:H	1:B:502:ASN:ND2	2.03	0.56
1:B:710:ASP:OD1	1:B:711:GLY:N	2.38	0.56
1:B:909:ALA:HA	1:J:83:ARG:HH11	1.18	0.56
1:C:599:ASP:HB3	1:C:888:HIS:HE2	1.69	0.56
1:D:813:ARG:HH22	1:E:261:LEU:C	2.09	0.56
1:E:241:TYR:HB3	1:F:393:SER:OG	2.04	0.56
1:E:399:ASN:ND2	1:E:400:GLN:HE21	2.02	0.56
1:E:695:ASP:HA	1:E:700:PRO:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:303:LEU:O	1:F:303:LEU:HD23	2.05	0.56
1:F:323:ASN:HD22	1:F:324:ALA:N	2.03	0.56
1:F:489:ASP:HA	1:F:492:ASP:OD2	2.05	0.56
1:F:552:ASN:ND2	1:F:564:ARG:HE	2.02	0.56
1:G:71:VAL:HG22	1:G:83:ARG:O	2.04	0.56
1:G:242:ARG:HG3	1:G:244:GLY:N	2.18	0.56
1:G:282:LEU:HD12	1:G:282:LEU:H	1.68	0.56
1:H:493:ASN:HD21	3:Q:45:ARG:NH1	1.95	0.56
1:H:766:PRO:HD3	1:H:809:HIS:NE2	2.16	0.56
1:I:139:ASN:O	1:I:140:ASN:HB2	2.05	0.56
1:K:133:THR:HB	1:K:212:GLN:HE21	1.70	0.56
1:K:323:ASN:HD22	1:K:324:ALA:N	2.03	0.56
1:K:628:PRO:HD3	3:P:12:VAL:HG13	1.86	0.56
1:L:169:GLU:O	1:L:170:ARG:CB	2.53	0.56
3:N:39:PRO:O	3:N:40:ASN:ND2	2.37	0.56
3:O:24:GLN:O	3:O:25:ASP:CG	2.43	0.56
3:P:15:ARG:O	3:P:15:ARG:CD	2.52	0.56
4:R:187:LEU:HD12	4:R:188:ASN:OD1	2.05	0.56
1:A:323:ASN:HD22	1:A:324:ALA:N	2.03	0.56
1:A:442:TYR:CE2	1:A:499:HIS:HA	2.40	0.56
1:A:761:MET:CE	1:A:824:LEU:HD13	2.35	0.56
1:B:801:TYR:CD1	1:B:802:PRO:HD2	2.41	0.56
1:C:180:TYR:CG	1:C:226:HIS:HB3	2.40	0.56
1:C:307:ASN:HD21	1:C:333:THR:N	1.95	0.56
1:C:617:PRO:HA	1:C:874:LEU:HD23	1.86	0.56
1:E:442:TYR:CE2	1:E:499:HIS:HA	2.39	0.56
1:F:169:GLU:O	1:F:170:ARG:CB	2.53	0.56
1:G:412:ASN:HD22	1:I:146:THR:N	2.03	0.56
1:G:672:PHE:CE2	1:G:829:LEU:HD21	2.40	0.56
1:I:67:ARG:NH1	1:I:576:ASN:HD22	2.03	0.56
1:I:323:ASN:HD22	1:I:324:ALA:N	2.03	0.56
1:I:395:GLU:OE1	1:I:395:GLU:N	2.37	0.56
1:J:617:PRO:HA	1:J:874:LEU:HD23	1.87	0.56
1:J:799:HIS:CD2	1:J:800:PRO:HD2	2.39	0.56
1:K:71:VAL:HG22	1:K:83:ARG:O	2.05	0.56
1:K:271:VAL:CB	1:K:272:PRO:HD3	2.33	0.56
1:K:650:ALA:HB3	3:P:20:SER:HB3	1.88	0.56
1:K:813:ARG:HH22	1:L:261:LEU:C	2.08	0.56
1:L:282:LEU:HD12	1:L:282:LEU:H	1.68	0.56
2:M:47:ASN:HD21	2:M:476:VAL:HG21	1.69	0.56
3:O:15:ARG:HG3	3:O:15:ARG:NH1	2.08	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:ARG:HH11	1:B:46:ARG:HB2	1.70	0.56
1:B:282:LEU:H	1:B:282:LEU:HD12	1.70	0.56
1:B:399:ASN:O	1:B:400:GLN:HB2	2.06	0.56
1:B:653:SER:HB2	1:J:77:GLN:CD	2.23	0.56
1:B:743:LEU:HD23	1:B:755:LEU:HD11	1.87	0.56
1:C:695:ASP:HA	1:C:700:PRO:HB3	1.86	0.56
1:C:785:PRO:C	1:C:787:TYR:H	2.09	0.56
1:D:185:GLN:HE21	1:F:782:ARG:HB3	1.70	0.56
1:D:263:PRO:HG2	1:D:264:ASP:H	1.69	0.56
1:D:441:LEU:HD23	1:D:471:PRO:HG3	1.87	0.56
1:D:695:ASP:HA	1:D:700:PRO:HB3	1.87	0.56
1:D:761:MET:CE	1:D:824:LEU:HD13	2.35	0.56
1:E:632:TRP:HD1	1:G:321:GLN:CD	2.09	0.56
1:E:653:SER:CA	1:G:78:TYR:HE2	2.18	0.56
1:E:891:HIS:CE1	4:R:27:TYR:HE1	2.23	0.56
1:F:230:THR:O	1:F:231:LYS:HB2	2.04	0.56
1:F:399:ASN:O	1:F:400:GLN:HB2	2.06	0.56
1:G:489:ASP:HA	1:G:492:ASP:OD2	2.05	0.56
1:G:876:TYR:CZ	1:G:878:LEU:HD21	2.40	0.56
1:H:282:LEU:H	1:H:282:LEU:HD12	1.71	0.56
1:H:865:GLU:HB2	3:Q:19:TRP:CH2	2.40	0.56
1:I:489:ASP:HA	1:I:492:ASP:OD2	2.05	0.56
1:I:618:ILE:HG12	1:I:625:LEU:HD12	1.88	0.56
1:J:169:GLU:O	1:J:170:ARG:CB	2.53	0.56
1:J:312:LEU:HD23	1:J:313:GLY:O	2.06	0.56
1:J:441:LEU:HD23	1:J:471:PRO:HG3	1.87	0.56
1:J:442:TYR:CE2	1:J:499:HIS:HA	2.40	0.56
1:J:672:PHE:CE2	1:J:829:LEU:HD21	2.40	0.56
1:J:684:GLN:HE21	1:J:687:SER:HA	1.70	0.56
1:J:813:ARG:HH22	1:K:261:LEU:C	2.09	0.56
1:J:869:ILE:HG22	1:J:871:GLU:HG2	1.87	0.56
1:K:242:ARG:CZ	1:K:244:GLY:HA2	2.35	0.56
1:L:10:TRP:HB3	1:L:15:ILE:HB	1.87	0.56
1:L:785:PRO:C	1:L:787:TYR:H	2.09	0.56
3:O:74:ILE:CG2	3:O:78:ASP:OD2	2.53	0.56
3:Q:25:ASP:HA	3:Q:38:PRO:HB2	1.83	0.56
1:A:790:ARG:HD3	1:B:186:LEU:HG	1.88	0.56
1:B:323:ASN:HD22	1:B:324:ALA:N	2.03	0.56
1:B:489:ASP:HA	1:B:492:ASP:OD2	2.05	0.56
1:C:360:SER:H	1:C:502:ASN:ND2	2.04	0.56
1:D:409:SER:OG	1:F:142:HIS:HB3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:323:ASN:HD22	1:G:324:ALA:N	2.03	0.56
1:G:332:ASN:HB2	1:G:613:ASN:ND2	2.21	0.56
1:G:399:ASN:O	1:G:400:GLN:HB2	2.05	0.56
1:G:409:SER:OG	1:I:142:HIS:HB3	2.06	0.56
1:H:242:ARG:HG3	1:H:244:GLY:N	2.20	0.56
1:H:443:LEU:HD23	1:H:491:MET:SD	2.45	0.56
1:H:489:ASP:HA	1:H:492:ASP:OD2	2.05	0.56
1:H:801:TYR:CD1	1:H:802:PRO:HD2	2.41	0.56
1:J:695:ASP:HA	1:J:700:PRO:HB3	1.87	0.56
1:K:489:ASP:HA	1:K:492:ASP:OD2	2.05	0.56
1:K:714:TYR:O	1:K:722:THR:HA	2.05	0.56
1:K:801:TYR:CD1	1:K:802:PRO:HD2	2.41	0.56
1:L:180:TYR:CG	1:L:226:HIS:HB3	2.40	0.56
1:L:695:ASP:HA	1:L:700:PRO:HB3	1.86	0.56
2:M:355:MET:CG	2:M:442:LEU:HD11	2.35	0.56
3:N:90:LEU:CD1	3:O:90:LEU:HD11	2.35	0.56
3:N:104:LEU:HB3	3:P:104:LEU:HD21	1.87	0.56
3:O:86:ARG:HE	3:P:87:MET:CG	2.15	0.56
3:P:24:GLN:O	3:P:25:ASP:CG	2.43	0.56
3:P:39:PRO:O	3:P:40:ASN:ND2	2.37	0.56
3:Q:15:ARG:NH1	3:Q:15:ARG:HG2	2.21	0.56
4:R:182:VAL:HB	4:R:183:PRO:HD2	1.87	0.56
1:A:473:SER:CB	1:A:792:CYS:HB2	2.29	0.56
1:A:813:ARG:HH22	1:B:261:LEU:C	2.09	0.56
1:C:169:GLU:O	1:C:170:ARG:CB	2.53	0.56
1:C:366:ARG:HE	1:C:824:LEU:HD23	1.69	0.56
1:D:672:PHE:CE2	1:D:829:LEU:HD21	2.40	0.56
1:D:786:ALA:HB1	1:F:419:LEU:HD13	1.86	0.56
1:E:305:TYR:CZ	1:E:548:ARG:HG2	2.41	0.56
1:E:443:LEU:HD23	1:E:491:MET:SD	2.45	0.56
1:E:888:HIS:CD2	4:R:30:ARG:NH2	2.62	0.56
1:F:337:TYR:HD1	1:F:532:ARG:HH22	1.54	0.56
1:G:360:SER:H	1:G:502:ASN:ND2	2.04	0.56
1:G:441:LEU:HD23	1:G:471:PRO:HG3	1.87	0.56
1:H:188:ILE:HD12	1:H:194:GLY:HA3	1.86	0.56
1:H:323:ASN:HD22	1:H:324:ALA:N	2.03	0.56
1:H:710:ASP:OD1	1:H:711:GLY:N	2.39	0.56
1:H:785:PRO:C	1:H:787:TYR:H	2.08	0.56
1:K:360:SER:H	1:K:502:ASN:ND2	2.03	0.56
1:K:552:ASN:ND2	1:K:564:ARG:HE	2.03	0.56
1:L:67:ARG:NH1	1:L:576:ASN:HD22	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:303:LEU:O	1:L:303:LEU:HD23	2.06	0.56
1:L:399:ASN:O	1:L:400:GLN:HB2	2.06	0.56
1:A:786:ALA:HB2	1:A:799:HIS:CA	2.36	0.56
1:B:332:ASN:HB2	1:B:613:ASN:ND2	2.21	0.56
1:B:630:ARG:HB2	1:B:858:HIS:O	2.05	0.56
1:C:10:TRP:HB3	1:C:15:ILE:HB	1.87	0.56
1:D:303:LEU:HD23	1:D:303:LEU:O	2.06	0.56
1:D:360:SER:H	1:D:502:ASN:ND2	2.04	0.56
1:D:617:PRO:HA	1:D:874:LEU:HD23	1.87	0.56
1:D:799:HIS:CD2	1:D:800:PRO:HD2	2.39	0.56
1:F:67:ARG:NH1	1:F:576:ASN:HD22	2.03	0.56
1:F:180:TYR:CG	1:F:226:HIS:HB3	2.40	0.56
1:G:784:THR:CG2	1:H:124:PHE:HB2	2.36	0.56
1:H:305:TYR:CZ	1:H:548:ARG:HG2	2.41	0.56
1:I:303:LEU:O	1:I:303:LEU:HD23	2.05	0.56
1:I:312:LEU:HD23	1:I:313:GLY:O	2.06	0.56
1:I:360:SER:H	1:I:502:ASN:ND2	2.04	0.56
1:J:786:ALA:HB2	1:J:799:HIS:CA	2.35	0.56
3:Q:24:GLN:O	3:Q:25:ASP:CG	2.43	0.56
1:A:169:GLU:O	1:A:170:ARG:CB	2.53	0.56
1:A:332:ASN:HB2	1:A:613:ASN:ND2	2.21	0.56
1:A:869:ILE:HG22	1:A:871:GLU:HG2	1.87	0.56
1:B:790:ARG:HD3	1:C:186:LEU:HG	1.87	0.56
1:C:337:TYR:HD1	1:C:532:ARG:HH22	1.54	0.56
1:C:419:LEU:N	1:C:419:LEU:HD12	2.21	0.56
1:D:856:ALA:HB2	1:J:892:ARG:NH2	2.18	0.56
1:E:451:PRO:CG	1:E:454:ILE:HD12	2.36	0.56
1:E:710:ASP:OD1	1:E:711:GLY:N	2.38	0.56
1:E:813:ARG:HH22	1:F:261:LEU:C	2.08	0.56
1:E:893:GLY:O	1:G:909:ALA:HA	2.06	0.56
1:F:419:LEU:N	1:F:419:LEU:HD12	2.21	0.56
1:G:185:GLN:HE21	1:I:782:ARG:HB3	1.70	0.56
1:G:312:LEU:HD11	1:G:327:ASP:H	1.71	0.56
1:I:168:ASP:CB	1:I:174:VAL:HB	2.32	0.56
1:I:169:GLU:O	1:I:170:ARG:CB	2.53	0.56
1:I:399:ASN:O	1:I:400:GLN:HB2	2.05	0.56
1:I:476:ILE:CD1	1:I:480:VAL:HG21	2.33	0.56
1:J:139:ASN:O	1:J:140:ASN:HB2	2.05	0.56
1:K:443:LEU:HD23	1:K:491:MET:SD	2.45	0.56
1:K:790:ARG:HD3	1:L:186:LEU:HG	1.87	0.56
2:M:49:ILE:HG21	2:M:61:THR:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:24:GLN:O	3:N:25:ASP:CG	2.43	0.56
3:N:57:ASN:HB2	3:N:62:GLY:HA3	1.88	0.56
1:A:409:SER:OG	1:C:142:HIS:HB3	2.06	0.56
1:A:684:GLN:HE21	1:A:687:SER:HA	1.70	0.56
1:B:451:PRO:CG	1:B:454:ILE:HD12	2.36	0.56
1:B:689:VAL:CG1	1:D:906:ALA:CB	2.75	0.56
1:C:67:ARG:NH1	1:C:576:ASN:HD22	2.03	0.56
1:C:876:TYR:CZ	1:C:878:LEU:HD21	2.41	0.56
1:D:139:ASN:O	1:D:140:ASN:HB2	2.06	0.56
1:D:785:PRO:C	1:D:787:TYR:H	2.09	0.56
1:D:786:ALA:HB2	1:D:799:HIS:CA	2.36	0.56
1:E:743:LEU:HD23	1:E:755:LEU:HD11	1.86	0.56
1:F:10:TRP:HB3	1:F:15:ILE:HB	1.87	0.56
1:F:785:PRO:C	1:F:787:TYR:H	2.09	0.56
1:G:303:LEU:HD23	1:G:303:LEU:O	2.06	0.56
1:H:684:GLN:HE21	1:H:687:SER:HA	1.70	0.56
1:H:813:ARG:HH22	1:I:261:LEU:C	2.08	0.56
1:I:552:ASN:ND2	1:I:564:ARG:HE	2.02	0.56
1:J:151:SER:HB2	1:K:417:GLY:O	2.05	0.56
1:J:263:PRO:HG2	1:J:264:ASP:H	1.70	0.56
1:J:399:ASN:O	1:J:400:GLN:HB2	2.06	0.56
1:J:761:MET:CE	1:J:824:LEU:HD13	2.35	0.56
1:K:273:ALA:O	1:K:274:ALA:HB3	2.06	0.56
1:K:282:LEU:H	1:K:282:LEU:HD12	1.71	0.56
1:K:305:TYR:CZ	1:K:548:ARG:HG2	2.41	0.56
1:K:419:LEU:N	1:K:419:LEU:HD12	2.21	0.56
1:L:337:TYR:HD1	1:L:532:ARG:HH22	1.54	0.56
1:L:869:ILE:HG22	1:L:871:GLU:HG2	1.88	0.56
2:M:155:PHE:CD1	2:M:180:LEU:HD22	2.40	0.56
3:N:35:VAL:H	3:N:64:ARG:HD3	1.67	0.56
1:A:261:LEU:HB2	1:C:813:ARG:NH2	2.21	0.56
1:A:303:LEU:O	1:A:303:LEU:HD23	2.06	0.56
1:A:743:LEU:HD23	1:A:755:LEU:HD11	1.88	0.56
1:A:876:TYR:CZ	1:A:878:LEU:HD21	2.40	0.56
1:B:133:THR:HB	1:B:212:GLN:HE21	1.71	0.56
1:B:653:SER:HB2	1:J:77:GLN:OE1	2.06	0.56
1:D:618:ILE:HG12	1:D:625:LEU:HD12	1.87	0.56
1:H:46:ARG:HB2	1:H:46:ARG:HH11	1.70	0.56
1:H:273:ALA:O	1:H:274:ALA:HB3	2.06	0.56
1:I:419:LEU:HD12	1:I:419:LEU:N	2.21	0.56
1:I:869:ILE:HG22	1:I:871:GLU:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:618:ILE:HG12	1:J:625:LEU:HD12	1.87	0.56
1:J:790:ARG:HD3	1:K:186:LEU:HG	1.88	0.56
1:K:109:ARG:HH21	1:K:512:LEU:HB2	1.69	0.56
1:K:868:PRO:HG3	3:O:40:ASN:HA	1.87	0.56
1:L:617:PRO:HA	1:L:874:LEU:HD23	1.86	0.56
1:L:618:ILE:HG12	1:L:625:LEU:HD12	1.88	0.56
2:M:107:LEU:CD2	2:M:442:LEU:HD23	2.35	0.56
3:N:25:ASP:HB2	3:N:69:GLN:HB2	1.88	0.56
4:R:5:ILE:C	4:R:5:ILE:HD13	2.26	0.56
4:R:10:VAL:HG12	4:R:24:SER:O	2.05	0.56
4:R:51:GLN:O	4:R:55:LEU:HD13	2.06	0.56
4:R:203:ARG:NH1	4:R:203:ARG:HB3	2.20	0.56
1:A:297:ARG:HA	1:A:508:ARG:HH21	1.71	0.56
1:D:312:LEU:HD23	1:D:313:GLY:O	2.06	0.56
1:E:618:ILE:HG12	1:E:625:LEU:HD12	1.88	0.56
1:G:261:LEU:HB2	1:I:813:ARG:NH2	2.21	0.56
1:G:442:TYR:CE2	1:G:499:HIS:HA	2.40	0.56
1:G:618:ILE:HG12	1:G:625:LEU:HD12	1.88	0.56
1:G:761:MET:CE	1:G:824:LEU:HD13	2.35	0.56
1:G:786:ALA:HB1	1:I:419:LEU:HD13	1.87	0.56
1:G:799:HIS:CD2	1:G:800:PRO:HD2	2.39	0.56
1:H:169:GLU:O	1:H:170:ARG:CB	2.53	0.56
1:H:271:VAL:HG21	1:H:283:SER:HB3	1.88	0.56
1:I:316:ALA:HB2	1:I:323:ASN:HA	1.87	0.56
1:J:360:SER:H	1:J:502:ASN:ND2	2.04	0.56
1:L:419:LEU:HD12	1:L:419:LEU:N	2.21	0.56
3:O:16:LEU:HD22	3:O:17:PRO:HD2	1.84	0.56
3:O:77:GLU:CA	3:O:80:LEU:CD1	2.84	0.56
3:P:77:GLU:CA	3:P:80:LEU:CD1	2.84	0.56
1:A:399:ASN:O	1:A:400:GLN:HB2	2.06	0.55
1:A:785:PRO:C	1:A:787:TYR:H	2.09	0.55
1:C:489:ASP:HA	1:C:492:ASP:OD2	2.05	0.55
1:D:261:LEU:HB2	1:F:813:ARG:NH2	2.21	0.55
1:D:261:LEU:C	1:F:813:ARG:HH22	2.10	0.55
1:D:399:ASN:O	1:D:400:GLN:HB2	2.06	0.55
1:E:282:LEU:H	1:E:282:LEU:HD12	1.71	0.55
1:E:300:PHE:CZ	1:E:355:ASN:HB2	2.42	0.55
1:E:419:LEU:N	1:E:419:LEU:HD12	2.21	0.55
1:E:489:ASP:HA	1:E:492:ASP:OD2	2.05	0.55
1:E:684:GLN:HE21	1:E:687:SER:HA	1.70	0.55
1:E:869:ILE:HG22	1:E:871:GLU:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:699:THR:HG21	1:G:704:GLU:OE1	2.06	0.55
1:G:813:ARG:HH22	1:H:261:LEU:C	2.09	0.55
1:H:395:GLU:OE1	1:H:395:GLU:N	2.33	0.55
1:H:695:ASP:HA	1:H:700:PRO:HB3	1.87	0.55
1:H:784:THR:HG21	1:I:124:PHE:HB2	1.89	0.55
1:K:169:GLU:O	1:K:170:ARG:CB	2.53	0.55
1:K:332:ASN:HB2	1:K:613:ASN:ND2	2.21	0.55
1:K:630:ARG:HB2	1:K:858:HIS:O	2.05	0.55
1:K:788:TRP:CG	1:K:789:PHE:N	2.74	0.55
1:K:869:ILE:HG22	1:K:871:GLU:HG2	1.89	0.55
3:P:57:ASN:HB2	3:P:62:GLY:HA3	1.88	0.55
1:A:13:MET:HE1	1:C:885:ALA:HA	1.89	0.55
1:A:162:ASP:OD1	1:A:175:TYR:HB3	2.06	0.55
1:A:360:SER:H	1:A:502:ASN:ND2	2.04	0.55
1:A:909:ALA:HB3	2:M:92:ASN:HD22	1.71	0.55
1:B:146:THR:H	1:C:412:ASN:HD22	1.52	0.55
1:B:813:ARG:HH22	1:C:261:LEU:C	2.08	0.55
1:D:552:ASN:ND2	1:D:564:ARG:HE	2.03	0.55
1:D:869:ILE:HG22	1:D:871:GLU:HG2	1.87	0.55
1:E:271:VAL:HG21	1:E:283:SER:HB3	1.88	0.55
1:E:396:VAL:HG13	1:E:404:GLN:C	2.26	0.55
1:E:653:SER:CA	1:G:78:TYR:CE2	2.88	0.55
1:E:790:ARG:HD3	1:F:186:LEU:HG	1.87	0.55
1:F:25:SER:CB	4:R:189:PRO:HB2	2.36	0.55
1:F:360:SER:H	1:F:502:ASN:ND2	2.04	0.55
1:G:151:SER:HB2	1:H:417:GLY:O	2.05	0.55
1:G:169:GLU:O	1:G:170:ARG:CB	2.53	0.55
1:G:261:LEU:C	1:I:813:ARG:HH22	2.10	0.55
1:G:695:ASP:HA	1:G:700:PRO:HB3	1.87	0.55
1:G:863:THR:CA	1:L:909:ALA:CB	2.84	0.55
1:H:73:ARG:NH2	1:L:83:ARG:NH2	2.50	0.55
1:H:332:ASN:HB2	1:H:613:ASN:ND2	2.21	0.55
1:H:680:LYS:CD	3:Q:19:TRP:CD2	2.87	0.55
1:I:441:LEU:HD23	1:I:471:PRO:HG3	1.86	0.55
1:J:409:SER:OG	1:L:142:HIS:HB3	2.06	0.55
1:K:396:VAL:HG13	1:K:404:GLN:C	2.26	0.55
1:L:442:TYR:CE2	1:L:499:HIS:HA	2.41	0.55
3:O:90:LEU:CD2	3:P:90:LEU:CD2	0.55	0.55
4:R:61:ILE:HD12	4:R:61:ILE:N	2.21	0.55
1:A:552:ASN:ND2	1:A:564:ARG:HE	2.03	0.55
1:B:305:TYR:CZ	1:B:548:ARG:HG2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:303:LEU:O	1:C:303:LEU:HD23	2.06	0.55
1:D:332:ASN:HB2	1:D:613:ASN:ND2	2.21	0.55
1:G:312:LEU:HD23	1:G:313:GLY:O	2.06	0.55
1:H:702:GLU:OE1	3:Q:19:TRP:CG	2.59	0.55
1:J:297:ARG:HA	1:J:508:ARG:HH21	1.71	0.55
1:J:303:LEU:HD23	1:J:303:LEU:O	2.06	0.55
1:J:699:THR:HG21	1:J:704:GLU:OE1	2.06	0.55
1:J:784:THR:CG2	1:K:124:PHE:HB2	2.36	0.55
1:K:271:VAL:HG21	1:K:283:SER:HB3	1.88	0.55
1:K:300:PHE:CZ	1:K:355:ASN:HB2	2.42	0.55
1:K:618:ILE:HG12	1:K:625:LEU:HD12	1.88	0.55
3:N:77:GLU:CA	3:N:80:LEU:CD1	2.84	0.55
4:R:190:TYR:HB3	4:R:197:TYR:CE1	2.41	0.55
1:A:261:LEU:C	1:C:813:ARG:HH22	2.10	0.55
1:A:618:ILE:HG12	1:A:625:LEU:HD12	1.87	0.55
1:B:396:VAL:HG13	1:B:404:GLN:C	2.26	0.55
1:B:552:ASN:ND2	1:B:564:ARG:HE	2.03	0.55
1:B:684:GLN:HE21	1:B:687:SER:HA	1.70	0.55
1:B:695:ASP:HA	1:B:700:PRO:HB3	1.87	0.55
1:C:170:ARG:HG2	1:C:171:GLN:N	2.22	0.55
1:C:435:LEU:O	1:C:439:VAL:HG22	2.07	0.55
1:C:618:ILE:HG12	1:C:625:LEU:HD12	1.88	0.55
1:E:399:ASN:O	1:E:400:GLN:HB2	2.06	0.55
1:G:46:ARG:HH11	1:G:46:ARG:CB	2.19	0.55
1:G:162:ASP:OD1	1:G:175:TYR:HB3	2.07	0.55
1:G:627:ILE:H	1:L:909:ALA:C	2.09	0.55
1:G:785:PRO:C	1:G:787:TYR:H	2.10	0.55
1:J:162:ASP:OD1	1:J:175:TYR:HB3	2.07	0.55
1:J:261:LEU:HB2	1:L:813:ARG:NH2	2.21	0.55
1:K:451:PRO:CG	1:K:454:ILE:HD12	2.36	0.55
1:L:435:LEU:O	1:L:439:VAL:HG22	2.07	0.55
1:L:476:ILE:CD1	1:L:480:VAL:HG21	2.32	0.55
1:L:876:TYR:CZ	1:L:878:LEU:HD21	2.41	0.55
3:N:72:TYR:CD1	3:N:72:TYR:C	2.79	0.55
3:N:79:SER:O	3:N:83:LEU:CG	2.52	0.55
3:P:72:TYR:CD1	3:P:72:TYR:C	2.79	0.55
3:Q:75:LEU:CG	3:Q:76:VAL:HG23	2.34	0.55
4:R:27:TYR:HA	4:R:30:ARG:HG3	1.89	0.55
1:A:307:ASN:HD21	1:A:333:THR:N	1.94	0.55
1:A:395:GLU:OE1	1:A:395:GLU:N	2.35	0.55
1:C:399:ASN:O	1:C:400:GLN:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:473:SER:N	1:C:792:CYS:SG	2.80	0.55
1:D:169:GLU:O	1:D:170:ARG:CB	2.53	0.55
1:F:695:ASP:HA	1:F:700:PRO:HB3	1.87	0.55
1:G:395:GLU:OE1	1:G:395:GLU:N	2.35	0.55
1:H:109:ARG:HH21	1:H:512:LEU:HB2	1.69	0.55
1:H:419:LEU:N	1:H:419:LEU:HD12	2.21	0.55
1:H:451:PRO:CG	1:H:454:ILE:HD12	2.36	0.55
1:I:442:TYR:CE2	1:I:499:HIS:HA	2.41	0.55
1:I:876:TYR:CZ	1:I:878:LEU:HD21	2.41	0.55
1:J:261:LEU:C	1:L:813:ARG:HH22	2.10	0.55
1:K:784:THR:HG21	1:L:124:PHE:HB2	1.89	0.55
1:L:473:SER:N	1:L:792:CYS:SG	2.80	0.55
3:Q:58:LEU:N	3:Q:58:LEU:CD1	2.65	0.55
1:A:139:ASN:O	1:A:140:ASN:HB2	2.06	0.55
1:A:784:THR:CG2	1:B:124:PHE:HB2	2.36	0.55
1:B:303:LEU:HD23	1:B:303:LEU:O	2.07	0.55
1:D:699:THR:HG21	1:D:704:GLU:OE1	2.06	0.55
1:D:790:ARG:HD3	1:E:186:LEU:HG	1.88	0.55
1:E:109:ARG:HH21	1:E:512:LEU:HB2	1.69	0.55
1:E:332:ASN:HB2	1:E:613:ASN:ND2	2.21	0.55
1:E:766:PRO:HG3	1:E:807:PRO:HG3	1.89	0.55
1:E:813:ARG:NH2	1:F:261:LEU:HB2	2.22	0.55
1:F:473:SER:N	1:F:792:CYS:SG	2.80	0.55
1:F:876:TYR:CZ	1:F:878:LEU:HD21	2.41	0.55
1:H:552:ASN:ND2	1:H:564:ARG:HE	2.02	0.55
1:H:813:ARG:NH2	1:I:261:LEU:HB2	2.22	0.55
1:I:785:PRO:C	1:I:787:TYR:H	2.09	0.55
1:K:168:ASP:CB	1:K:174:VAL:HB	2.33	0.55
1:L:312:LEU:HD23	1:L:313:GLY:O	2.06	0.55
3:N:104:LEU:HD13	3:P:104:LEU:HG	1.83	0.55
1:A:786:ALA:HB2	1:A:799:HIS:N	2.22	0.55
1:B:419:LEU:HD12	1:B:419:LEU:N	2.21	0.55
1:B:766:PRO:HG3	1:B:807:PRO:HG3	1.89	0.55
1:C:273:ALA:O	1:C:274:ALA:HB3	2.07	0.55
1:C:869:ILE:HG22	1:C:871:GLU:HG2	1.88	0.55
1:D:396:VAL:CG2	1:F:242:ARG:HH11	2.20	0.55
1:D:784:THR:CG2	1:E:124:PHE:HB2	2.36	0.55
1:D:799:HIS:CE1	1:E:132:ASN:HD21	2.25	0.55
1:E:801:TYR:CD1	1:E:802:PRO:HD2	2.41	0.55
1:F:379:ASN:OD1	1:F:426:LEU:HB2	2.06	0.55
1:G:514:ASN:CB	1:I:484:THR:HG23	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:790:ARG:HD3	1:H:186:LEU:HG	1.88	0.55
1:H:133:THR:HB	1:H:212:GLN:HE21	1.70	0.55
1:H:398:ARG:HB3	1:H:403:TRP:CE2	2.42	0.55
1:H:618:ILE:HG12	1:H:625:LEU:HD12	1.88	0.55
1:I:10:TRP:HB3	1:I:15:ILE:HB	1.87	0.55
1:J:395:GLU:OE1	1:J:395:GLU:N	2.35	0.55
1:J:743:LEU:HD23	1:J:755:LEU:HD11	1.88	0.55
1:K:303:LEU:O	1:K:303:LEU:HD23	2.07	0.55
1:L:139:ASN:O	1:L:140:ASN:HB2	2.05	0.55
2:M:73:ILE:HD11	2:M:76:LEU:CD1	2.33	0.55
3:P:18:LYS:HG3	3:P:19:TRP:N	2.22	0.55
3:Q:67:GLU:HB3	3:Q:68:ASP:CB	2.34	0.55
4:R:187:LEU:N	4:R:187:LEU:HD23	2.22	0.55
1:B:271:VAL:HG21	1:B:283:SER:HB3	1.88	0.55
1:D:684:GLN:HE21	1:D:687:SER:HA	1.70	0.55
1:E:315:LEU:HD13	1:E:543:TYR:CD1	2.42	0.55
1:E:788:TRP:CG	1:E:789:PHE:N	2.74	0.55
1:F:170:ARG:HG2	1:F:171:GLN:N	2.22	0.55
1:F:312:LEU:HD23	1:F:313:GLY:O	2.06	0.55
1:F:435:LEU:O	1:F:439:VAL:HG22	2.07	0.55
1:G:786:ALA:HB2	1:G:799:HIS:CA	2.36	0.55
1:H:312:LEU:HD23	1:H:313:GLY:O	2.07	0.55
1:H:876:TYR:CZ	1:H:878:LEU:HD21	2.42	0.55
1:J:312:LEU:HD11	1:J:327:ASP:H	1.71	0.55
1:J:785:PRO:C	1:J:787:TYR:H	2.10	0.55
1:J:799:HIS:CE1	1:K:132:ASN:HD21	2.25	0.55
1:K:312:LEU:HD23	1:K:313:GLY:O	2.07	0.55
1:L:168:ASP:CB	1:L:174:VAL:HB	2.32	0.55
3:N:25:ASP:HA	3:N:38:PRO:HB2	1.83	0.55
3:N:35:VAL:N	3:N:64:ARG:CD	2.66	0.55
3:O:18:LYS:HG3	3:O:19:TRP:N	2.22	0.55
3:P:25:ASP:HB2	3:P:69:GLN:HB2	1.88	0.55
1:A:168:ASP:CB	1:A:174:VAL:HB	2.31	0.55
1:A:305:TYR:CZ	1:A:548:ARG:HG2	2.42	0.55
1:A:695:ASP:HA	1:A:700:PRO:HB3	1.87	0.55
1:A:699:THR:HG21	1:A:704:GLU:OE1	2.06	0.55
1:B:273:ALA:O	1:B:274:ALA:HB3	2.06	0.55
1:C:442:TYR:CE2	1:C:499:HIS:HA	2.41	0.55
1:F:801:TYR:CD1	1:F:802:PRO:HD2	2.42	0.55
1:G:139:ASN:O	1:G:140:ASN:HB2	2.06	0.55
1:G:297:ARG:HA	1:G:508:ARG:HH21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:396:VAL:CG2	1:I:242:ARG:HH11	2.20	0.55
1:H:303:LEU:O	1:H:303:LEU:HD23	2.07	0.55
1:H:315:LEU:HD13	1:H:543:TYR:CD1	2.42	0.55
1:H:399:ASN:O	1:H:400:GLN:HB2	2.06	0.55
1:I:699:THR:HG21	1:I:704:GLU:OE1	2.07	0.55
1:J:332:ASN:HB2	1:J:613:ASN:ND2	2.21	0.55
1:K:399:ASN:O	1:K:400:GLN:HB2	2.06	0.55
1:K:876:TYR:CZ	1:K:878:LEU:HD21	2.42	0.55
1:L:801:TYR:CD1	1:L:802:PRO:HD2	2.42	0.55
2:M:174:ASN:HD21	2:M:199:ILE:HB	1.71	0.55
1:A:185:GLN:HE21	1:C:782:ARG:HB3	1.70	0.55
1:A:312:LEU:HD23	1:A:313:GLY:O	2.06	0.55
1:A:396:VAL:CG2	1:C:242:ARG:HH11	2.20	0.55
1:B:761:MET:HE3	1:B:824:LEU:HD13	1.89	0.55
1:B:788:TRP:CG	1:B:789:PHE:N	2.74	0.55
1:C:766:PRO:HD3	1:C:809:HIS:NE2	2.18	0.55
1:D:532:ARG:HD2	1:D:533:ASN:ND2	2.22	0.55
1:E:133:THR:HB	1:E:212:GLN:HE21	1.70	0.55
1:F:273:ALA:O	1:F:274:ALA:HB3	2.07	0.55
1:G:786:ALA:HB2	1:G:799:HIS:N	2.22	0.55
1:I:532:ARG:HD2	1:I:533:ASN:ND2	2.22	0.55
1:I:801:TYR:CD1	1:I:802:PRO:HD2	2.42	0.55
1:K:658:TYR:HE2	3:P:21:GLY:CA	2.20	0.55
1:L:532:ARG:HD2	1:L:533:ASN:ND2	2.22	0.55
2:M:70:SER:O	2:M:73:ILE:HG22	2.07	0.55
2:M:174:ASN:O	2:M:177:ILE:HB	2.07	0.55
3:N:84:LYS:N	3:P:86:ARG:NH2	2.55	0.55
3:Q:25:ASP:HB2	3:Q:69:GLN:HB2	1.88	0.55
1:B:242:ARG:NH1	1:C:396:VAL:CG2	2.71	0.54
1:B:300:PHE:CZ	1:B:355:ASN:HB2	2.42	0.54
1:B:876:TYR:CZ	1:B:878:LEU:HD21	2.42	0.54
1:C:809:HIS:HA	1:C:814:HIS:CD2	2.42	0.54
1:E:273:ALA:O	1:E:274:ALA:HB3	2.06	0.54
1:E:303:LEU:HD23	1:E:303:LEU:O	2.07	0.54
1:F:406:VAL:O	1:F:407:ALA:HB3	2.07	0.54
1:F:442:TYR:CE2	1:F:499:HIS:HA	2.41	0.54
1:G:399:ASN:HD21	1:G:400:GLN:HE21	1.55	0.54
1:I:271:VAL:CB	1:I:272:PRO:HD3	2.33	0.54
1:L:162:ASP:OD1	1:L:175:TYR:HB3	2.08	0.54
1:L:406:VAL:O	1:L:407:ALA:HB3	2.08	0.54
3:O:24:GLN:C	3:O:25:ASP:CG	2.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:89:LEU:CD1	3:P:87:MET:HE1	2.37	0.54
1:A:263:PRO:CD	1:C:813:ARG:HH21	2.00	0.54
1:A:312:LEU:HD11	1:A:327:ASP:H	1.71	0.54
1:A:396:VAL:HG13	1:A:404:GLN:C	2.28	0.54
1:A:451:PRO:CG	1:A:454:ILE:HD12	2.38	0.54
1:A:683:ILE:HG23	1:A:860:LEU:HD11	1.90	0.54
1:B:312:LEU:HD23	1:B:313:GLY:O	2.07	0.54
1:C:801:TYR:CD1	1:C:802:PRO:HD2	2.42	0.54
1:D:683:ILE:HG23	1:D:860:LEU:HD11	1.90	0.54
1:E:398:ARG:HB3	1:E:403:TRP:CE2	2.42	0.54
1:F:618:ILE:HG12	1:F:625:LEU:HD12	1.88	0.54
1:F:869:ILE:HG22	1:F:871:GLU:HG2	1.87	0.54
1:G:273:ALA:O	1:G:274:ALA:HB3	2.07	0.54
1:G:743:LEU:HD23	1:G:755:LEU:HD11	1.88	0.54
1:G:813:ARG:CZ	1:H:261:LEU:HB2	2.37	0.54
1:H:533:ASN:HB2	1:H:605:PHE:HE2	1.73	0.54
1:J:46:ARG:HH11	1:J:46:ARG:CB	2.19	0.54
1:J:443:LEU:HD23	1:J:491:MET:SD	2.48	0.54
1:J:532:ARG:HD2	1:J:533:ASN:ND2	2.22	0.54
1:K:766:PRO:HG3	1:K:807:PRO:HG3	1.89	0.54
1:L:699:THR:HG21	1:L:704:GLU:OE1	2.08	0.54
3:N:18:LYS:HG3	3:N:19:TRP:N	2.22	0.54
3:N:65:ARG:HA	3:N:65:ARG:NE	2.09	0.54
3:O:57:ASN:HB2	3:O:62:GLY:HA3	1.88	0.54
3:Q:57:ASN:HB2	3:Q:62:GLY:HA3	1.88	0.54
1:A:514:ASN:CB	1:C:484:THR:HG23	2.36	0.54
1:B:398:ARG:HB3	1:B:403:TRP:CE2	2.41	0.54
1:B:532:ARG:HD2	1:B:533:ASN:ND2	2.22	0.54
1:B:761:MET:CE	1:B:824:LEU:HD13	2.38	0.54
1:D:162:ASP:OD1	1:D:175:TYR:HB3	2.07	0.54
1:D:305:TYR:CZ	1:D:548:ARG:HG2	2.42	0.54
1:D:307:ASN:HD21	1:D:333:THR:N	1.94	0.54
1:D:312:LEU:HD11	1:D:327:ASP:H	1.71	0.54
1:F:451:PRO:CG	1:F:454:ILE:HD12	2.38	0.54
1:F:809:HIS:HA	1:F:814:HIS:CD2	2.43	0.54
1:H:242:ARG:NH1	1:I:396:VAL:CG2	2.71	0.54
1:I:379:ASN:OD1	1:I:426:LEU:HB2	2.06	0.54
1:I:451:PRO:CG	1:I:454:ILE:HD12	2.38	0.54
1:I:473:SER:N	1:I:792:CYS:SG	2.80	0.54
1:J:170:ARG:HG2	1:J:171:GLN:N	2.22	0.54
1:J:813:ARG:HH21	1:K:263:PRO:CD	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:242:ARG:NH1	1:L:396:VAL:CG2	2.70	0.54
1:K:761:MET:CE	1:K:824:LEU:HD13	2.38	0.54
1:L:208:ARG:NH1	1:L:256:GLU:HA	2.18	0.54
1:L:360:SER:H	1:L:502:ASN:ND2	2.04	0.54
1:L:379:ASN:OD1	1:L:426:LEU:HB2	2.06	0.54
2:M:199:ILE:HD12	2:M:229:ILE:HG22	1.87	0.54
3:O:30:ASN:N	3:O:34:GLY:H	2.05	0.54
3:Q:24:GLN:C	3:Q:25:ASP:CG	2.66	0.54
3:Q:31:MET:CB	3:Q:32:LEU:HB3	2.28	0.54
3:Q:57:ASN:HB3	3:Q:62:GLY:HA3	1.90	0.54
3:Q:74:ILE:CG2	3:Q:78:ASP:OD2	2.53	0.54
1:A:799:HIS:CD2	1:A:800:PRO:HD2	2.39	0.54
1:B:242:ARG:HD3	1:C:396:VAL:HG21	1.90	0.54
1:B:271:VAL:HG22	1:C:189:GLU:OE2	2.08	0.54
1:B:315:LEU:HD13	1:B:543:TYR:CD1	2.42	0.54
1:C:162:ASP:OD1	1:C:175:TYR:HB3	2.07	0.54
1:C:312:LEU:HD23	1:C:313:GLY:O	2.06	0.54
1:E:61:SER:H	1:J:61:SER:HB2	1.71	0.54
1:E:242:ARG:HD3	1:F:396:VAL:HG21	1.90	0.54
1:E:714:TYR:O	1:E:723:LYS:HG3	2.08	0.54
1:F:139:ASN:O	1:F:140:ASN:HB2	2.05	0.54
1:F:395:GLU:OE1	1:F:395:GLU:N	2.37	0.54
1:H:300:PHE:CZ	1:H:355:ASN:HB2	2.42	0.54
1:H:768:PRO:HG3	3:Q:59:HIS:N	2.22	0.54
1:I:809:HIS:HA	1:I:814:HIS:CD2	2.43	0.54
1:J:683:ILE:HG23	1:J:860:LEU:HD11	1.90	0.54
1:J:786:ALA:HB2	1:J:799:HIS:N	2.21	0.54
1:K:398:ARG:HB3	1:K:403:TRP:CE2	2.42	0.54
1:K:813:ARG:NH2	1:L:261:LEU:HB2	2.22	0.54
1:L:312:LEU:HD11	1:L:327:ASP:H	1.73	0.54
2:M:211:GLN:HG3	2:M:212:THR:N	2.21	0.54
3:N:72:TYR:O	3:N:72:TYR:CD1	2.61	0.54
3:O:90:LEU:CB	3:P:90:LEU:HD22	2.35	0.54
3:P:72:TYR:O	3:P:72:TYR:CD1	2.61	0.54
3:Q:18:LYS:HG3	3:Q:19:TRP:N	2.22	0.54
3:Q:77:GLU:CA	3:Q:80:LEU:CD1	2.84	0.54
1:A:273:ALA:O	1:A:274:ALA:HB3	2.07	0.54
1:A:532:ARG:HD2	1:A:533:ASN:ND2	2.22	0.54
1:A:799:HIS:CE1	1:B:132:ASN:HD21	2.25	0.54
1:B:813:ARG:NH2	1:C:261:LEU:HB2	2.22	0.54
1:C:379:ASN:OD1	1:C:426:LEU:HB2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:406:VAL:O	1:C:407:ALA:HB3	2.08	0.54
1:D:297:ARG:HA	1:D:508:ARG:HH21	1.71	0.54
1:D:743:LEU:HD23	1:D:755:LEU:HD11	1.88	0.54
1:E:271:VAL:CB	1:E:272:PRO:HD3	2.33	0.54
1:E:761:MET:CE	1:E:824:LEU:HD13	2.38	0.54
1:E:813:ARG:HH21	1:F:263:PRO:CD	2.01	0.54
1:F:162:ASP:OD1	1:F:175:TYR:HB3	2.08	0.54
1:F:786:ALA:HB2	1:F:799:HIS:N	2.23	0.54
1:G:67:ARG:NH1	1:G:576:ASN:HD22	2.06	0.54
1:G:799:HIS:CE1	1:H:132:ASN:HD21	2.25	0.54
1:I:162:ASP:OD1	1:I:175:TYR:HB3	2.07	0.54
1:I:435:LEU:O	1:I:439:VAL:HG22	2.07	0.54
1:J:273:ALA:O	1:J:274:ALA:HB3	2.07	0.54
1:K:315:LEU:HD13	1:K:543:TYR:CD1	2.42	0.54
1:K:617:PRO:HA	1:K:874:LEU:HD23	1.90	0.54
1:K:628:PRO:CD	3:P:12:VAL:CG1	2.85	0.54
1:L:451:PRO:CG	1:L:454:ILE:HD12	2.38	0.54
2:M:73:ILE:HD12	2:M:98:LEU:CD2	2.37	0.54
2:M:399:GLU:HB2	2:M:405:HIS:NE2	2.23	0.54
3:O:103:ARG:HH12	3:P:105:ARG:HH21	1.56	0.54
1:A:314:VAL:HG21	2:M:366:LEU:CG	2.37	0.54
1:A:443:LEU:HD23	1:A:491:MET:SD	2.48	0.54
1:B:618:ILE:HG12	1:B:625:LEU:HD12	1.88	0.54
1:B:784:THR:HG21	1:C:124:PHE:HB2	1.88	0.54
1:C:231:LYS:HG3	1:C:258:ALA:CA	2.38	0.54
1:D:300:PHE:CZ	1:D:355:ASN:HB2	2.43	0.54
1:D:786:ALA:HB2	1:D:799:HIS:N	2.22	0.54
1:E:298:ASP:O	1:E:301:VAL:HG13	2.08	0.54
1:F:300:PHE:CZ	1:F:355:ASN:HB2	2.43	0.54
1:G:322:LEU:HD11	4:R:35:SER:CA	2.38	0.54
1:G:451:PRO:CG	1:G:454:ILE:HD12	2.38	0.54
1:G:473:SER:CB	1:G:792:CYS:HB2	2.29	0.54
1:H:132:ASN:HB3	1:H:206:VAL:CG2	2.34	0.54
1:I:208:ARG:HG2	1:I:208:ARG:HH11	1.73	0.54
1:I:273:ALA:O	1:I:274:ALA:HB3	2.07	0.54
1:I:337:TYR:HD1	1:I:532:ARG:HH22	1.54	0.54
1:I:406:VAL:O	1:I:407:ALA:HB3	2.07	0.54
1:I:786:ALA:HB2	1:I:799:HIS:N	2.23	0.54
1:J:7:LEU:HD22	4:R:14:GLN:CD	2.28	0.54
1:K:458:PRO:CD	3:P:65:ARG:O	2.55	0.54
3:O:25:ASP:HB2	3:O:69:GLN:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:242:ARG:HH11	1:C:396:VAL:CG2	2.21	0.54
1:C:699:THR:HG21	1:C:704:GLU:OE1	2.07	0.54
1:C:786:ALA:HB2	1:C:799:HIS:N	2.23	0.54
1:D:447:LEU:CD1	1:D:490:VAL:HG21	2.34	0.54
1:E:533:ASN:HB2	1:E:605:PHE:HE2	1.72	0.54
1:G:242:ARG:NH1	1:H:396:VAL:HG21	2.23	0.54
1:G:863:THR:HA	1:L:909:ALA:HB1	1.90	0.54
1:H:242:ARG:HH11	1:I:396:VAL:CG2	2.20	0.54
1:H:298:ASP:O	1:H:301:VAL:HG13	2.08	0.54
1:H:392:ARG:HB2	1:H:411:ASN:HA	1.90	0.54
1:H:617:PRO:HA	1:H:874:LEU:HD23	1.90	0.54
1:H:715:ASN:ND2	1:H:720:ASN:HA	2.23	0.54
1:J:305:TYR:CZ	1:J:548:ARG:HG2	2.42	0.54
1:J:599:ASP:HB3	1:J:888:HIS:HE2	1.73	0.54
1:L:231:LYS:HG3	1:L:258:ALA:CA	2.38	0.54
2:M:54:LEU:HB3	2:M:55:PRO:HD2	1.90	0.54
2:M:127:ASN:N	2:M:164:PHE:CE1	2.76	0.54
3:N:24:GLN:C	3:N:25:ASP:CG	2.66	0.54
3:P:58:LEU:N	3:P:58:LEU:CD1	2.65	0.54
1:A:242:ARG:NH1	1:B:396:VAL:HG21	2.23	0.54
1:A:300:PHE:CZ	1:A:355:ASN:HB2	2.43	0.54
1:A:315:LEU:HD13	1:A:543:TYR:CD1	2.43	0.54
1:A:813:ARG:CZ	1:B:261:LEU:HB2	2.38	0.54
1:C:332:ASN:HB2	1:C:613:ASN:ND2	2.23	0.54
1:E:532:ARG:HD2	1:E:533:ASN:ND2	2.23	0.54
1:E:876:TYR:CZ	1:E:878:LEU:HD21	2.42	0.54
1:G:532:ARG:HD2	1:G:533:ASN:ND2	2.22	0.54
1:G:628:PRO:CD	1:L:630:ARG:NH2	2.61	0.54
1:H:532:ARG:HD2	1:H:533:ASN:ND2	2.23	0.54
1:H:714:TYR:O	1:H:723:LYS:HG3	2.08	0.54
1:I:332:ASN:HB2	1:I:613:ASN:ND2	2.23	0.54
1:J:402:GLN:O	1:J:403:TRP:CB	2.56	0.54
1:K:242:ARG:HH11	1:L:396:VAL:CG2	2.21	0.54
1:L:273:ALA:O	1:L:274:ALA:HB3	2.07	0.54
1:L:786:ALA:HB2	1:L:799:HIS:N	2.23	0.54
2:M:128:ILE:HD11	2:M:163:ASN:OD1	2.07	0.54
3:Q:35:VAL:H	3:Q:64:ARG:HD3	1.67	0.54
1:B:715:ASN:ND2	1:B:720:ASN:HA	2.23	0.54
1:B:869:ILE:HG22	1:B:871:GLU:HG2	1.88	0.54
1:C:208:ARG:HG2	1:C:208:ARG:HH11	1.73	0.54
1:D:396:VAL:HG13	1:D:404:GLN:C	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:451:PRO:CG	1:D:454:ILE:HD12	2.38	0.54
1:D:813:ARG:CZ	1:E:261:LEU:HB2	2.37	0.54
1:E:784:THR:HG21	1:F:124:PHE:HB2	1.88	0.54
1:F:208:ARG:HG2	1:F:208:ARG:HH11	1.73	0.54
1:F:476:ILE:CD1	1:F:480:VAL:HG21	2.33	0.54
1:G:170:ARG:HG2	1:G:171:GLN:N	2.22	0.54
1:G:300:PHE:CZ	1:G:355:ASN:HB2	2.43	0.54
1:G:315:LEU:HD13	1:G:543:TYR:CD1	2.43	0.54
1:G:443:LEU:HD23	1:G:491:MET:SD	2.48	0.54
1:H:426:LEU:HD21	1:I:426:LEU:HD21	1.90	0.54
1:I:347:ARG:NH1	1:I:358:MET:HB2	2.23	0.54
3:P:35:VAL:N	3:P:64:ARG:CD	2.66	0.54
1:A:170:ARG:HG2	1:A:171:GLN:N	2.22	0.54
1:A:298:ASP:O	1:A:301:VAL:HG13	2.09	0.54
1:A:316:ALA:O	1:A:542:THR:HG22	2.08	0.54
1:B:686:ASP:H	1:D:909:ALA:HB3	1.70	0.54
1:C:312:LEU:HD11	1:C:327:ASP:H	1.73	0.54
1:D:67:ARG:NH1	1:D:576:ASN:HD22	2.06	0.54
1:D:273:ALA:O	1:D:274:ALA:HB3	2.07	0.54
1:D:599:ASP:HB3	1:D:888:HIS:HE2	1.73	0.54
1:E:312:LEU:HD23	1:E:313:GLY:O	2.07	0.54
1:E:392:ARG:HB2	1:E:411:ASN:HA	1.90	0.54
1:E:479:TYR:CD1	1:E:806:LEU:HG	2.43	0.54
1:E:552:ASN:ND2	1:E:564:ARG:HE	2.03	0.54
1:F:532:ARG:HD2	1:F:533:ASN:ND2	2.22	0.54
1:G:347:ARG:NH1	1:G:358:MET:HB2	2.23	0.54
1:G:396:VAL:HG13	1:G:404:GLN:C	2.28	0.54
1:G:626:PRO:HB3	1:L:908:ASN:O	2.03	0.54
1:G:710:ASP:OD1	1:G:711:GLY:N	2.41	0.54
1:H:869:ILE:HG22	1:H:871:GLU:HG2	1.89	0.54
1:I:392:ARG:HD3	1:I:392:ARG:N	2.22	0.54
1:J:396:VAL:CG2	1:L:242:ARG:HH11	2.20	0.54
1:J:513:GLY:HA3	1:L:764:GLN:OE1	2.08	0.54
1:K:650:ALA:HB1	3:P:20:SER:HB3	1.88	0.54
1:K:652:GLY:HA3	3:P:18:LYS:HE3	1.90	0.54
3:N:86:ARG:HE	3:O:87:MET:HG3	1.73	0.54
3:O:72:TYR:O	3:O:72:TYR:CD1	2.61	0.54
3:P:57:ASN:HB3	3:P:62:GLY:HA3	1.90	0.54
1:A:640:LEU:HD11	1:A:875:LEU:CD1	2.38	0.53
1:C:271:VAL:CB	1:C:272:PRO:HD3	2.33	0.53
1:D:242:ARG:NH1	1:E:396:VAL:HG21	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:513:GLY:HA3	1:F:764:GLN:OE1	2.08	0.53
1:E:76:THR:HG21	1:G:658:TYR:HE1	1.73	0.53
1:E:715:ASN:ND2	1:E:720:ASN:HA	2.23	0.53
1:G:316:ALA:O	1:G:542:THR:HG22	2.08	0.53
1:G:473:SER:HB2	1:G:792:CYS:CB	2.32	0.53
1:G:599:ASP:HB3	1:G:888:HIS:HE2	1.72	0.53
1:G:799:HIS:HD2	1:G:800:PRO:CD	2.21	0.53
1:H:436:TYR:HA	1:H:440:ALA:CB	2.39	0.53
1:H:761:MET:CE	1:H:824:LEU:HD13	2.38	0.53
1:H:766:PRO:HG3	1:H:807:PRO:HG3	1.89	0.53
1:I:399:ASN:HD21	1:I:400:GLN:HE21	1.56	0.53
1:J:399:ASN:HD21	1:J:400:GLN:HE21	1.55	0.53
1:J:435:LEU:O	1:J:439:VAL:HG22	2.08	0.53
1:J:451:PRO:CG	1:J:454:ILE:HD12	2.38	0.53
1:J:799:HIS:HD2	1:J:800:PRO:CD	2.21	0.53
1:K:132:ASN:HB3	1:K:206:VAL:CG2	2.34	0.53
1:K:242:ARG:HD3	1:L:396:VAL:HG21	1.90	0.53
1:K:715:ASN:ND2	1:K:720:ASN:HA	2.23	0.53
2:M:169:VAL:O	2:M:173:MET:HG3	2.08	0.53
3:N:74:ILE:CG2	3:N:78:ASP:OD2	2.53	0.53
3:P:34:GLY:O	3:P:35:VAL:HG23	2.08	0.53
1:B:170:ARG:HG2	1:B:171:GLN:N	2.22	0.53
1:B:699:THR:HG21	1:B:704:GLU:OE1	2.08	0.53
1:B:714:TYR:O	1:B:723:LYS:HG3	2.08	0.53
1:C:300:PHE:CZ	1:C:355:ASN:HB2	2.43	0.53
1:C:747:TYR:O	1:C:750:ARG:HD3	2.08	0.53
1:D:315:LEU:HD13	1:D:543:TYR:CD1	2.43	0.53
1:E:60:ARG:HD2	1:L:694:ASN:OD1	2.08	0.53
1:E:242:ARG:NH1	1:F:396:VAL:CG2	2.70	0.53
1:E:406:VAL:O	1:E:407:ALA:HB3	2.08	0.53
1:F:46:ARG:HB2	1:F:46:ARG:HH11	1.73	0.53
1:F:231:LYS:HG3	1:F:258:ALA:CA	2.38	0.53
1:F:399:ASN:HD21	1:F:400:GLN:HE21	1.56	0.53
1:G:13:MET:HE1	1:I:885:ALA:HA	1.89	0.53
1:G:435:LEU:O	1:G:439:VAL:HG22	2.08	0.53
1:I:231:LYS:HG3	1:I:258:ALA:CA	2.38	0.53
1:I:312:LEU:HD11	1:I:327:ASP:H	1.73	0.53
1:I:315:LEU:HD13	1:I:543:TYR:CD1	2.44	0.53
1:J:450:THR:HG23	1:J:469:ARG:NH1	2.24	0.53
1:K:714:TYR:O	1:K:723:LYS:HG3	2.08	0.53
1:K:734:TYR:O	1:K:736:ILE:HG13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:46:ARG:HB2	1:L:46:ARG:HH11	1.73	0.53
1:L:347:ARG:NH1	1:L:358:MET:HB2	2.23	0.53
1:L:809:HIS:HA	1:L:814:HIS:CD2	2.43	0.53
2:M:216:THR:OG1	2:M:217:PRO:HD3	2.08	0.53
3:P:24:GLN:C	3:P:25:ASP:CG	2.66	0.53
1:B:799:HIS:CD2	1:B:800:PRO:HD2	2.41	0.53
1:B:813:ARG:HH21	1:C:263:PRO:CD	2.01	0.53
1:C:402:GLN:O	1:C:403:TRP:CB	2.56	0.53
1:C:532:ARG:HD2	1:C:533:ASN:ND2	2.22	0.53
1:D:46:ARG:HH11	1:D:46:ARG:CB	2.19	0.53
1:D:347:ARG:NH1	1:D:358:MET:HB2	2.23	0.53
1:E:242:ARG:HH11	1:F:396:VAL:CG2	2.20	0.53
1:G:305:TYR:CZ	1:G:548:ARG:HG2	2.42	0.53
1:H:406:VAL:O	1:H:407:ALA:HB3	2.08	0.53
1:H:734:TYR:O	1:H:736:ILE:HG13	2.09	0.53
1:J:300:PHE:CZ	1:J:355:ASN:HB2	2.43	0.53
1:K:83:ARG:HD2	1:K:542:THR:OG1	2.09	0.53
1:K:533:ASN:HB2	1:K:605:PHE:HE2	1.72	0.53
1:K:699:THR:HG21	1:K:704:GLU:OE1	2.08	0.53
1:L:747:TYR:O	1:L:750:ARG:HD3	2.08	0.53
3:P:79:SER:O	3:P:83:LEU:CG	2.52	0.53
4:R:188:ASN:HD22	4:R:191:SER:CB	2.21	0.53
1:A:476:ILE:HG23	1:A:476:ILE:O	2.09	0.53
1:B:533:ASN:HB2	1:B:605:PHE:HE2	1.72	0.53
1:C:347:ARG:NH1	1:C:358:MET:HB2	2.23	0.53
1:C:451:PRO:CG	1:C:454:ILE:HD12	2.38	0.53
1:D:443:LEU:HD23	1:D:491:MET:SD	2.48	0.53
1:D:450:THR:HG23	1:D:469:ARG:NH1	2.24	0.53
1:D:640:LEU:HD11	1:D:875:LEU:CD1	2.38	0.53
1:D:799:HIS:HD2	1:D:800:PRO:CD	2.21	0.53
1:E:271:VAL:HG22	1:F:189:GLU:OE2	2.08	0.53
1:E:857:ALA:CB	1:G:318:GLN:HB3	2.37	0.53
1:F:315:LEU:HD13	1:F:543:TYR:CD1	2.44	0.53
1:F:747:TYR:O	1:F:750:ARG:HD3	2.08	0.53
1:G:406:VAL:HG22	1:G:408:ASN:HB2	1.90	0.53
1:G:813:ARG:HH21	1:H:263:PRO:CD	2.07	0.53
1:H:36:GLU:O	1:H:36:GLU:HG3	2.09	0.53
1:H:435:LEU:O	1:H:439:VAL:HG22	2.09	0.53
1:I:402:GLN:O	1:I:403:TRP:CB	2.56	0.53
1:J:67:ARG:NH1	1:J:576:ASN:HD22	2.06	0.53
1:K:271:VAL:HG22	1:L:189:GLU:OE2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:426:LEU:HD21	1:L:426:LEU:HD21	1.90	0.53
1:K:436:TYR:HA	1:K:440:ALA:CB	2.39	0.53
1:K:532:ARG:HD2	1:K:533:ASN:ND2	2.23	0.53
2:M:166:GLU:O	2:M:169:VAL:HG12	2.08	0.53
3:N:34:GLY:O	3:N:35:VAL:HG23	2.08	0.53
3:Q:72:TYR:O	3:Q:72:TYR:CD1	2.61	0.53
1:A:406:VAL:HG22	1:A:408:ASN:HB2	1.91	0.53
1:B:392:ARG:HB2	1:B:411:ASN:HA	1.90	0.53
1:B:426:LEU:HD21	1:C:426:LEU:HD21	1.90	0.53
1:B:479:TYR:CD1	1:B:806:LEU:HG	2.44	0.53
1:B:617:PRO:HA	1:B:874:LEU:HD23	1.89	0.53
1:B:734:TYR:O	1:B:736:ILE:HG13	2.09	0.53
1:D:311:ASN:HD21	1:D:654:PRO:HB3	1.74	0.53
1:E:36:GLU:HG3	1:E:36:GLU:O	2.09	0.53
1:E:436:TYR:HA	1:E:440:ALA:CB	2.39	0.53
1:F:699:THR:HG21	1:F:704:GLU:OE1	2.08	0.53
1:G:450:THR:HG23	1:G:469:ARG:NH1	2.24	0.53
1:G:686:ASP:OD2	4:R:15:PRO:HD3	2.09	0.53
1:H:479:TYR:CD1	1:H:806:LEU:HG	2.44	0.53
1:H:699:THR:HG21	1:H:704:GLU:OE1	2.09	0.53
1:I:476:ILE:HG23	1:I:476:ILE:O	2.09	0.53
1:J:242:ARG:NH1	1:K:396:VAL:HG21	2.23	0.53
1:K:399:ASN:HD21	1:K:400:GLN:HE21	1.57	0.53
1:L:300:PHE:CZ	1:L:355:ASN:HB2	2.43	0.53
1:A:422:MET:SD	1:C:383:PRO:HG3	2.49	0.53
1:A:766:PRO:HD3	1:A:809:HIS:NE2	2.20	0.53
1:A:909:ALA:HB1	2:M:92:ASN:CB	2.39	0.53
1:B:36:GLU:HG3	1:B:36:GLU:O	2.09	0.53
1:B:476:ILE:HG23	1:B:476:ILE:O	2.09	0.53
1:B:745:PRO:HB2	1:B:747:TYR:CE1	2.44	0.53
1:D:153:VAL:O	1:D:153:VAL:HG13	2.09	0.53
1:E:168:ASP:CB	1:E:174:VAL:HB	2.33	0.53
1:F:332:ASN:HB2	1:F:613:ASN:ND2	2.23	0.53
1:F:476:ILE:HG23	1:F:476:ILE:O	2.09	0.53
1:F:533:ASN:HB2	1:F:605:PHE:HE2	1.74	0.53
1:G:476:ILE:HG23	1:G:476:ILE:O	2.09	0.53
1:H:476:ILE:O	1:H:476:ILE:HG23	2.09	0.53
1:H:678:PHE:HB3	1:H:705:ILE:HD12	1.91	0.53
1:H:702:GLU:OE1	3:Q:19:TRP:HB3	2.09	0.53
1:I:46:ARG:HB2	1:I:46:ARG:HH11	1.74	0.53
1:J:58:THR:HG21	1:J:62:GLN:NE2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:347:ARG:NH1	1:J:358:MET:HB2	2.23	0.53
1:J:476:ILE:HG23	1:J:476:ILE:O	2.09	0.53
1:J:514:ASN:CB	1:L:484:THR:HG23	2.36	0.53
1:J:710:ASP:OD1	1:J:711:GLY:N	2.41	0.53
1:J:813:ARG:CZ	1:K:261:LEU:HB2	2.37	0.53
1:K:379:ASN:HD22	1:K:379:ASN:N	2.07	0.53
1:K:392:ARG:HB2	1:K:411:ASN:HA	1.90	0.53
1:K:470:ILE:HG23	1:K:793:ARG:HD3	1.91	0.53
1:K:479:TYR:CD1	1:K:806:LEU:HG	2.44	0.53
4:R:9:TYR:HB3	4:R:23:ALA:HB1	1.90	0.53
1:A:67:ARG:NH1	1:A:576:ASN:HD22	2.06	0.53
1:A:311:ASN:HD21	1:A:654:PRO:HB3	1.74	0.53
1:A:417:GLY:O	1:C:151:SER:HB2	2.09	0.53
1:A:436:TYR:HA	1:A:440:ALA:CB	2.39	0.53
1:B:298:ASP:O	1:B:301:VAL:HG13	2.08	0.53
1:B:473:SER:HB2	1:B:792:CYS:CB	2.30	0.53
1:B:632:TRP:HD1	1:J:321:GLN:HB3	1.61	0.53
1:C:46:ARG:HB2	1:C:46:ARG:HH11	1.73	0.53
1:C:305:TYR:CZ	1:C:548:ARG:HG2	2.44	0.53
1:C:533:ASN:HB2	1:C:605:PHE:HE2	1.74	0.53
1:C:766:PRO:HG3	1:C:807:PRO:HG3	1.91	0.53
1:E:59:GLU:CB	1:J:60:ARG:CD	2.85	0.53
1:E:170:ARG:HG2	1:E:171:GLN:N	2.22	0.53
1:E:347:ARG:NH1	1:E:358:MET:HB2	2.24	0.53
1:F:392:ARG:HD3	1:F:392:ARG:N	2.22	0.53
1:G:183:GLU:C	1:G:185:GLN:H	2.12	0.53
1:G:687:SER:CB	1:L:632:TRP:CD2	2.64	0.53
1:H:410:ASP:O	1:H:411:ASN:HB2	2.09	0.53
1:H:745:PRO:HB2	1:H:747:TYR:CE1	2.44	0.53
1:I:300:PHE:CZ	1:I:355:ASN:HB2	2.43	0.53
1:I:379:ASN:HD22	1:I:379:ASN:N	2.07	0.53
1:J:13:MET:HE1	1:L:885:ALA:HA	1.91	0.53
1:J:315:LEU:HD13	1:J:543:TYR:CD1	2.43	0.53
1:J:761:MET:HE3	1:J:824:LEU:HD13	1.90	0.53
1:K:36:GLU:HG3	1:K:36:GLU:O	2.09	0.53
1:L:208:ARG:HG2	1:L:208:ARG:HH11	1.72	0.53
1:L:533:ASN:HB2	1:L:605:PHE:HE2	1.73	0.53
1:L:641:THR:CG2	1:L:642:ARG:H	2.05	0.53
2:M:106:GLU:O	2:M:107:LEU:HD12	2.08	0.53
2:M:360:VAL:HG12	2:M:361:THR:HG23	1.91	0.53
3:N:90:LEU:HD23	3:O:90:LEU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:90:LEU:HD23	3:P:90:LEU:HD22	1.48	0.53
1:A:402:GLN:O	1:A:403:TRP:CB	2.56	0.53
1:A:435:LEU:O	1:A:439:VAL:HG22	2.08	0.53
1:A:599:ASP:HB3	1:A:888:HIS:HE2	1.73	0.53
1:B:436:TYR:HA	1:B:440:ALA:CB	2.39	0.53
1:B:689:VAL:HG22	1:D:906:ALA:CA	2.36	0.53
1:C:640:LEU:HD11	1:C:875:LEU:CD1	2.39	0.53
1:D:761:MET:HE3	1:D:824:LEU:HD13	1.90	0.53
1:F:379:ASN:HD22	1:F:379:ASN:N	2.07	0.53
1:G:311:ASN:HD21	1:G:654:PRO:HB3	1.74	0.53
1:G:422:MET:SD	1:I:383:PRO:HG3	2.49	0.53
1:H:83:ARG:HD2	1:H:542:THR:OG1	2.09	0.53
1:K:76:THR:HG22	1:K:77:GLN:N	2.24	0.53
1:K:868:PRO:HG3	3:O:40:ASN:CA	2.39	0.53
1:L:640:LEU:HD11	1:L:875:LEU:CD1	2.39	0.53
3:O:42:GLN:OE1	3:O:42:GLN:N	2.42	0.53
3:P:42:GLN:OE1	3:P:42:GLN:N	2.42	0.53
1:A:83:ARG:HD2	1:A:542:THR:OG1	2.09	0.53
1:B:764:GLN:OE1	1:C:513:GLY:HA3	2.09	0.53
1:B:786:ALA:HB2	1:B:799:HIS:CA	2.39	0.53
1:C:89:GLY:N	1:D:321:GLN:NE2	2.51	0.53
1:C:379:ASN:HD22	1:C:379:ASN:N	2.07	0.53
1:D:710:ASP:OD1	1:D:711:GLY:N	2.42	0.53
1:E:76:THR:HG22	1:E:77:GLN:N	2.24	0.53
1:F:271:VAL:CB	1:F:272:PRO:HD3	2.33	0.53
1:F:640:LEU:HD11	1:F:875:LEU:CD1	2.39	0.53
1:F:766:PRO:HG3	1:F:807:PRO:HG3	1.91	0.53
1:G:379:ASN:HD22	1:G:379:ASN:N	2.07	0.53
1:G:683:ILE:HG23	1:G:860:LEU:HD11	1.90	0.53
1:I:533:ASN:HB2	1:I:605:PHE:HE2	1.74	0.53
1:I:747:TYR:O	1:I:750:ARG:HD3	2.08	0.53
1:J:422:MET:SD	1:L:383:PRO:HG3	2.49	0.53
1:L:305:TYR:CZ	1:L:548:ARG:HG2	2.44	0.53
1:A:513:GLY:HA3	1:C:764:GLN:OE1	2.08	0.53
1:A:710:ASP:OD1	1:A:711:GLY:N	2.41	0.53
1:B:153:VAL:HG13	1:B:153:VAL:O	2.09	0.53
1:D:417:GLY:O	1:F:151:SER:HB2	2.09	0.53
1:E:745:PRO:HB2	1:E:747:TYR:CE1	2.44	0.53
1:F:734:TYR:O	1:F:736:ILE:HG13	2.09	0.53
1:G:83:ARG:HD2	1:G:542:THR:OG1	2.09	0.53
1:H:153:VAL:HG13	1:H:153:VAL:O	2.10	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:706:LYS:HD2	1:H:720:ASN:ND2	2.24	0.53
1:J:183:GLU:C	1:J:185:GLN:H	2.13	0.53
1:K:410:ASP:O	1:K:411:ASN:HB2	2.09	0.53
1:K:786:ALA:HB2	1:K:799:HIS:CA	2.39	0.53
1:L:315:LEU:HD13	1:L:543:TYR:CD1	2.44	0.53
1:L:332:ASN:HB2	1:L:613:ASN:ND2	2.23	0.53
1:L:734:TYR:O	1:L:736:ILE:HG13	2.09	0.53
3:N:15:ARG:HG3	3:N:15:ARG:NH1	2.08	0.53
3:N:15:ARG:O	3:N:15:ARG:CD	2.52	0.53
3:N:42:GLN:OE1	3:N:42:GLN:N	2.42	0.53
3:N:103:ARG:NH1	3:O:105:ARG:HH21	2.07	0.53
3:O:103:ARG:O	3:O:104:LEU:C	2.48	0.53
3:P:18:LYS:CG	3:P:19:TRP:H	2.22	0.53
1:A:58:THR:HG21	1:A:62:GLN:NE2	2.24	0.52
1:A:392:ARG:HD3	1:A:392:ARG:N	2.22	0.52
1:B:406:VAL:O	1:B:407:ALA:HB3	2.09	0.52
1:B:909:ALA:C	1:J:542:THR:OG1	2.48	0.52
1:C:786:ALA:HB2	1:C:799:HIS:CA	2.38	0.52
1:D:58:THR:HG21	1:D:62:GLN:NE2	2.24	0.52
1:D:316:ALA:O	1:D:542:THR:HG22	2.09	0.52
1:D:402:GLN:O	1:D:403:TRP:CE3	2.63	0.52
1:D:476:ILE:HG23	1:D:476:ILE:O	2.09	0.52
1:D:514:ASN:CB	1:F:484:THR:HG23	2.36	0.52
1:E:764:GLN:OE1	1:F:513:GLY:HA3	2.09	0.52
1:G:58:THR:HG21	1:G:62:GLN:NE2	2.24	0.52
1:G:208:ARG:HG2	1:G:208:ARG:HH11	1.75	0.52
1:G:298:ASP:O	1:G:301:VAL:HG13	2.09	0.52
1:G:905:SER:CB	4:R:27:TYR:O	2.55	0.52
1:H:436:TYR:HA	1:H:440:ALA:HB3	1.92	0.52
1:H:747:TYR:O	1:H:750:ARG:HD3	2.10	0.52
1:I:766:PRO:HG3	1:I:807:PRO:HG3	1.91	0.52
1:K:298:ASP:O	1:K:301:VAL:HG13	2.08	0.52
1:K:347:ARG:NH1	1:K:358:MET:HB2	2.24	0.52
1:L:786:ALA:HB2	1:L:799:HIS:CA	2.38	0.52
3:N:24:GLN:NE2	3:O:8:TYR:HE1	2.01	0.52
3:Q:18:LYS:CG	3:Q:19:TRP:H	2.22	0.52
1:A:377:MET:SD	1:B:432:ARG:HG2	2.49	0.52
1:A:379:ASN:HD22	1:A:379:ASN:N	2.07	0.52
1:A:399:ASN:HD21	1:A:400:GLN:HE21	1.55	0.52
1:A:414:ILE:HD13	1:C:253:PHE:CZ	2.45	0.52
1:A:450:THR:HG23	1:A:469:ARG:NH1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:799:HIS:HD2	1:A:800:PRO:CD	2.21	0.52
1:B:109:ARG:HH21	1:B:512:LEU:HB2	1.69	0.52
1:B:168:ASP:CB	1:B:174:VAL:HB	2.33	0.52
1:B:706:LYS:HD2	1:B:720:ASN:ND2	2.24	0.52
1:C:618:ILE:HB	1:C:873:THR:OG1	2.10	0.52
1:D:170:ARG:HG2	1:D:171:GLN:N	2.22	0.52
1:D:298:ASP:O	1:D:301:VAL:HG13	2.09	0.52
1:D:412:ASN:HD22	1:F:146:THR:N	2.03	0.52
1:E:410:ASP:O	1:E:411:ASN:HB2	2.09	0.52
1:E:699:THR:HG21	1:E:704:GLU:OE1	2.09	0.52
1:G:417:GLY:O	1:I:151:SER:HB2	2.09	0.52
1:G:640:LEU:HD11	1:G:875:LEU:CD1	2.39	0.52
1:H:242:ARG:HD3	1:I:396:VAL:HG21	1.90	0.52
1:H:640:LEU:HD11	1:H:875:LEU:CD1	2.40	0.52
1:I:392:ARG:HB2	1:I:411:ASN:HA	1.91	0.52
1:I:710:ASP:OD1	1:I:711:GLY:N	2.43	0.52
1:I:786:ALA:HB2	1:I:799:HIS:CA	2.39	0.52
1:J:298:ASP:O	1:J:301:VAL:HG13	2.09	0.52
1:J:379:ASN:N	1:J:379:ASN:HD22	2.07	0.52
1:K:406:VAL:O	1:K:407:ALA:HB3	2.09	0.52
1:L:170:ARG:HG2	1:L:171:GLN:N	2.22	0.52
3:O:46:THR:HG23	3:O:47:GLU:O	2.10	0.52
3:P:103:ARG:O	3:P:104:LEU:C	2.48	0.52
3:Q:72:TYR:O	3:Q:72:TYR:HD1	1.92	0.52
1:B:83:ARG:HD2	1:B:542:THR:OG1	2.09	0.52
1:B:151:SER:HB2	1:C:417:GLY:O	2.10	0.52
1:B:347:ARG:NH1	1:B:358:MET:HB2	2.24	0.52
1:B:379:ASN:N	1:B:379:ASN:HD22	2.07	0.52
1:B:450:THR:HG23	1:B:469:ARG:NH1	2.24	0.52
1:B:640:LEU:HD11	1:B:875:LEU:CD1	2.40	0.52
1:D:13:MET:HE1	1:F:885:ALA:HA	1.91	0.52
1:D:208:ARG:HG2	1:D:208:ARG:HH11	1.74	0.52
1:D:435:LEU:O	1:D:439:VAL:HG22	2.08	0.52
1:E:58:THR:HG21	1:E:62:GLN:NE2	2.25	0.52
1:E:383:PRO:HG3	1:F:422:MET:SD	2.50	0.52
1:E:706:LYS:HD2	1:E:720:ASN:ND2	2.24	0.52
1:E:734:TYR:O	1:E:736:ILE:HG13	2.09	0.52
1:G:377:MET:SD	1:H:432:ARG:HG2	2.49	0.52
1:G:436:TYR:HA	1:G:440:ALA:CB	2.39	0.52
1:G:745:PRO:HB2	1:G:747:TYR:CE1	2.45	0.52
1:G:809:HIS:HA	1:G:814:HIS:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:76:THR:HG22	1:H:77:GLN:N	2.24	0.52
1:H:170:ARG:HG2	1:H:171:GLN:N	2.22	0.52
1:H:271:VAL:HG22	1:I:189:GLU:OE2	2.08	0.52
1:H:347:ARG:NH1	1:H:358:MET:HB2	2.24	0.52
1:H:386:GLY:O	1:H:387:VAL:HB	2.09	0.52
1:I:766:PRO:HD3	1:I:809:HIS:NE2	2.18	0.52
1:K:153:VAL:HG13	1:K:153:VAL:O	2.09	0.52
1:K:476:ILE:O	1:K:476:ILE:HG23	2.09	0.52
1:K:640:LEU:HD11	1:K:875:LEU:CD1	2.40	0.52
1:K:706:LYS:HD2	1:K:720:ASN:ND2	2.24	0.52
1:L:396:VAL:HG13	1:L:404:GLN:C	2.30	0.52
2:M:125:LEU:HD21	2:M:132:MET:HG3	1.91	0.52
2:M:303:GLU:CG	2:M:305:PRO:HD2	2.37	0.52
3:O:34:GLY:O	3:O:35:VAL:HG23	2.08	0.52
3:Q:34:GLY:O	3:Q:35:VAL:HG23	2.08	0.52
1:A:347:ARG:NH1	1:A:358:MET:HB2	2.23	0.52
1:B:383:PRO:HG3	1:C:422:MET:SD	2.50	0.52
1:B:410:ASP:O	1:B:411:ASN:HB2	2.09	0.52
1:B:470:ILE:HG23	1:B:793:ARG:HD3	1.91	0.52
1:C:165:MET:HG2	1:C:165:MET:O	2.10	0.52
1:C:315:LEU:HD13	1:C:543:TYR:CD1	2.44	0.52
1:D:103:ILE:HG23	1:D:572:ILE:CD1	2.40	0.52
1:D:377:MET:SD	1:E:432:ARG:HG2	2.49	0.52
1:D:734:TYR:O	1:D:736:ILE:HG13	2.10	0.52
1:E:426:LEU:HD21	1:F:426:LEU:HD21	1.90	0.52
1:E:786:ALA:HB2	1:E:799:HIS:CA	2.39	0.52
1:F:683:ILE:HG23	1:F:860:LEU:HD11	1.91	0.52
1:G:533:ASN:HB2	1:G:605:PHE:HE2	1.75	0.52
1:G:747:TYR:O	1:G:750:ARG:HD3	2.10	0.52
1:H:151:SER:HB2	1:I:417:GLY:O	2.10	0.52
1:H:450:THR:HG23	1:H:469:ARG:NH1	2.24	0.52
1:H:470:ILE:HG23	1:H:793:ARG:HD3	1.91	0.52
1:H:764:GLN:OE1	1:I:513:GLY:HA3	2.09	0.52
1:H:788:TRP:CG	1:H:789:PHE:N	2.74	0.52
1:I:35:THR:C	1:I:37:SER:H	2.13	0.52
1:I:170:ARG:HG2	1:I:171:GLN:N	2.22	0.52
1:I:305:TYR:CZ	1:I:548:ARG:HG2	2.44	0.52
1:I:406:VAL:HG22	1:I:408:ASN:HB2	1.92	0.52
1:J:396:VAL:HG13	1:J:404:GLN:C	2.28	0.52
1:J:417:GLY:O	1:L:151:SER:HB2	2.09	0.52
1:K:435:LEU:O	1:K:439:VAL:HG22	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:747:TYR:O	1:K:750:ARG:HD3	2.10	0.52
1:K:809:HIS:HA	1:K:814:HIS:CD2	2.45	0.52
1:L:153:VAL:O	1:L:153:VAL:HG13	2.09	0.52
1:L:710:ASP:OD1	1:L:711:GLY:N	2.43	0.52
3:N:25:ASP:CA	3:N:38:PRO:HB2	2.39	0.52
4:R:175:ARG:HH11	4:R:175:ARG:CB	2.21	0.52
1:A:103:ILE:HG23	1:A:572:ILE:CD1	2.40	0.52
1:A:533:ASN:HB2	1:A:605:PHE:HE2	1.74	0.52
1:A:745:PRO:HB2	1:A:747:TYR:CE1	2.45	0.52
1:A:764:GLN:OE1	1:B:513:GLY:HA3	2.10	0.52
1:B:747:TYR:O	1:B:750:ARG:HD3	2.09	0.52
1:C:35:THR:C	1:C:37:SER:H	2.13	0.52
1:C:392:ARG:HD3	1:C:392:ARG:N	2.22	0.52
1:C:476:ILE:O	1:C:476:ILE:HG23	2.09	0.52
1:C:734:TYR:O	1:C:736:ILE:HG13	2.09	0.52
1:D:399:ASN:HD21	1:D:400:GLN:HE21	1.55	0.52
1:D:764:GLN:OE1	1:E:513:GLY:HA3	2.10	0.52
1:E:617:PRO:HA	1:E:874:LEU:HD23	1.90	0.52
1:F:165:MET:O	1:F:165:MET:HG2	2.10	0.52
1:G:153:VAL:O	1:G:153:VAL:HG13	2.09	0.52
1:G:414:ILE:HD13	1:I:253:PHE:CZ	2.45	0.52
1:G:767:ASN:H	1:G:817:ARG:HA	1.75	0.52
1:I:351:PHE:CE2	1:I:353:MET:HB3	2.45	0.52
1:J:153:VAL:HG13	1:J:153:VAL:O	2.09	0.52
1:J:412:ASN:HD22	1:L:146:THR:N	2.03	0.52
1:J:533:ASN:HB2	1:J:605:PHE:HE2	1.75	0.52
1:J:640:LEU:HD11	1:J:875:LEU:CD1	2.39	0.52
1:K:450:THR:HG23	1:K:469:ARG:NH1	2.24	0.52
1:K:764:GLN:OE1	1:L:513:GLY:HA3	2.09	0.52
2:M:70:SER:HA	2:M:73:ILE:HG22	1.92	0.52
3:N:18:LYS:CG	3:N:19:TRP:H	2.22	0.52
3:N:57:ASN:HB3	3:N:62:GLY:HA3	1.90	0.52
3:N:83:LEU:C	3:P:86:ARG:NH2	2.53	0.52
3:O:72:TYR:O	3:O:72:TYR:HD1	1.93	0.52
3:O:72:TYR:CD1	3:O:72:TYR:C	2.79	0.52
3:Q:46:THR:HG23	3:Q:47:GLU:O	2.10	0.52
1:B:58:THR:HG21	1:B:62:GLN:NE2	2.25	0.52
1:B:786:ALA:HB2	1:B:799:HIS:N	2.25	0.52
1:D:436:TYR:HA	1:D:440:ALA:CB	2.39	0.52
1:E:435:LEU:O	1:E:439:VAL:HG22	2.09	0.52
1:F:312:LEU:HD11	1:F:327:ASP:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:392:ARG:HB2	1:G:411:ASN:HA	1.92	0.52
1:G:630:ARG:CB	1:G:859:ALA:HA	2.40	0.52
1:H:383:PRO:HG3	1:I:422:MET:SD	2.50	0.52
1:H:392:ARG:HD3	1:H:392:ARG:N	2.21	0.52
1:I:83:ARG:HD2	1:I:542:THR:OG1	2.10	0.52
1:I:307:ASN:HD21	1:I:333:THR:N	1.95	0.52
1:J:208:ARG:HG2	1:J:208:ARG:HH11	1.74	0.52
1:J:377:MET:SD	1:K:432:ARG:HG2	2.49	0.52
1:J:745:PRO:HB2	1:J:747:TYR:CE1	2.45	0.52
1:K:383:PRO:HG3	1:L:422:MET:SD	2.50	0.52
1:K:678:PHE:HB3	1:K:705:ILE:HD12	1.91	0.52
1:K:745:PRO:HB2	1:K:747:TYR:CE1	2.44	0.52
1:L:307:ASN:HD21	1:L:333:THR:N	1.95	0.52
2:M:173:MET:O	2:M:177:ILE:HG12	2.10	0.52
3:N:15:ARG:NH1	3:N:15:ARG:HG2	2.21	0.52
3:O:30:ASN:O	3:O:32:LEU:C	2.48	0.52
3:P:65:ARG:O	3:P:65:ARG:HD3	2.10	0.52
1:A:46:ARG:HH11	1:A:46:ARG:CB	2.19	0.52
1:A:396:VAL:CG2	1:C:242:ARG:NH1	2.73	0.52
1:A:630:ARG:CB	1:A:859:ALA:HA	2.40	0.52
1:B:392:ARG:HD3	1:B:392:ARG:N	2.21	0.52
1:B:678:PHE:HB3	1:B:705:ILE:HD12	1.91	0.52
1:C:395:GLU:OE1	1:C:395:GLU:N	2.37	0.52
1:D:422:MET:SD	1:F:383:PRO:HG3	2.49	0.52
1:D:747:TYR:O	1:D:750:ARG:HD3	2.10	0.52
1:E:316:ALA:O	1:E:542:THR:HG22	2.10	0.52
1:E:402:GLN:O	1:E:403:TRP:CE3	2.62	0.52
1:E:470:ILE:HG23	1:E:793:ARG:HD3	1.91	0.52
1:E:786:ALA:HB2	1:E:799:HIS:N	2.25	0.52
1:E:799:HIS:HD2	1:E:800:PRO:CD	2.23	0.52
1:F:305:TYR:CZ	1:F:548:ARG:HG2	2.44	0.52
1:G:513:GLY:HA3	1:I:764:GLN:OE1	2.08	0.52
1:I:706:LYS:HD2	1:I:720:ASN:ND2	2.25	0.52
1:I:734:TYR:O	1:I:736:ILE:HG13	2.09	0.52
1:J:36:GLU:HG3	1:J:36:GLU:O	2.10	0.52
1:J:316:ALA:O	1:J:542:THR:HG22	2.09	0.52
1:J:809:HIS:HA	1:J:814:HIS:CD2	2.44	0.52
1:K:615:LEU:O	3:P:16:LEU:HB2	2.08	0.52
1:L:386:GLY:O	1:L:387:VAL:HB	2.10	0.52
1:L:402:GLN:O	1:L:403:TRP:CB	2.56	0.52
2:M:92:ASN:ND2	2:M:95:PHE:HE2	2.03	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:73:MET:O	3:N:74:ILE:CD1	2.56	0.52
3:Q:15:ARG:O	3:Q:15:ARG:CD	2.52	0.52
1:A:734:TYR:O	1:A:736:ILE:HG13	2.10	0.52
1:A:809:HIS:HA	1:A:814:HIS:CD2	2.44	0.52
1:B:909:ALA:CB	1:J:83:ARG:HH11	2.23	0.52
1:D:396:VAL:CG2	1:F:242:ARG:NH1	2.73	0.52
1:D:406:VAL:HG22	1:D:408:ASN:HB2	1.91	0.52
1:E:83:ARG:HD2	1:E:542:THR:OG1	2.09	0.52
1:E:107:LEU:HD12	1:E:108:ASP:H	1.75	0.52
1:E:153:VAL:HG13	1:E:153:VAL:O	2.09	0.52
1:E:337:TYR:HD1	1:E:532:ARG:HH22	1.57	0.52
1:F:386:GLY:O	1:F:387:VAL:HB	2.10	0.52
1:F:618:ILE:HB	1:F:873:THR:OG1	2.10	0.52
1:F:786:ALA:HB2	1:F:799:HIS:CA	2.39	0.52
1:I:436:TYR:HA	1:I:440:ALA:CB	2.40	0.52
1:J:133:THR:CG2	1:J:212:GLN:HG3	2.39	0.52
1:J:263:PRO:CD	1:L:813:ARG:HH21	2.00	0.52
1:J:392:ARG:HB2	1:J:411:ASN:HA	1.92	0.52
1:J:734:TYR:O	1:J:736:ILE:HG13	2.10	0.52
1:J:747:TYR:O	1:J:750:ARG:HD3	2.09	0.52
1:K:307:ASN:HD21	1:K:333:THR:N	1.99	0.52
1:K:402:GLN:O	1:K:403:TRP:CB	2.56	0.52
1:L:678:PHE:HB3	1:L:705:ILE:HD12	1.92	0.52
2:M:202:ARG:HD3	2:M:420:PRO:HG2	1.91	0.52
3:O:35:VAL:HG11	3:O:64:ARG:H	1.75	0.52
3:P:30:ASN:O	3:P:32:LEU:C	2.47	0.52
3:P:74:ILE:CG2	3:P:78:ASP:OD2	2.53	0.52
1:B:76:THR:HG22	1:B:77:GLN:N	2.24	0.52
1:B:292:ASN:HA	1:B:558:THR:OG1	2.10	0.52
1:C:683:ILE:HG23	1:C:860:LEU:HD11	1.91	0.52
1:D:83:ARG:HD2	1:D:542:THR:OG1	2.09	0.52
1:E:292:ASN:HA	1:E:558:THR:OG1	2.10	0.52
1:F:153:VAL:O	1:F:153:VAL:HG13	2.09	0.52
1:F:347:ARG:NH1	1:F:358:MET:HB2	2.24	0.52
1:F:396:VAL:HG13	1:F:404:GLN:C	2.30	0.52
1:F:479:TYR:CD1	1:F:806:LEU:HG	2.45	0.52
1:G:133:THR:CG2	1:G:212:GLN:HG3	2.39	0.52
1:H:786:ALA:HB2	1:H:799:HIS:CA	2.39	0.52
1:H:799:HIS:CD2	1:H:800:PRO:HD2	2.41	0.52
1:I:36:GLU:HG3	1:I:36:GLU:O	2.10	0.52
1:J:103:ILE:HG23	1:J:572:ILE:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:618:ILE:HB	1:J:873:THR:OG1	2.10	0.52
1:K:58:THR:HG21	1:K:62:GLN:NE2	2.25	0.52
1:K:107:LEU:HD12	1:K:108:ASP:H	1.75	0.52
1:K:337:TYR:HD1	1:K:532:ARG:HH22	1.57	0.52
1:L:135:PHE:CE1	1:L:145:GLN:HB3	2.45	0.52
1:L:351:PHE:CE2	1:L:353:MET:HB3	2.45	0.52
1:L:379:ASN:HD22	1:L:379:ASN:N	2.07	0.52
3:N:35:VAL:HG11	3:N:64:ARG:H	1.75	0.52
3:O:95:GLN:O	3:O:96:GLN:C	2.49	0.52
3:P:25:ASP:HA	3:P:38:PRO:HB2	1.83	0.52
3:Q:35:VAL:CG1	3:Q:67:GLU:OE2	2.58	0.52
3:Q:65:ARG:O	3:Q:65:ARG:HD3	2.10	0.52
3:Q:106:THR:O	3:Q:107:GLY:C	2.48	0.52
1:B:208:ARG:HG2	1:B:208:ARG:HH11	1.75	0.52
1:C:83:ARG:HD2	1:C:542:THR:OG1	2.10	0.52
1:C:706:LYS:HD2	1:C:720:ASN:ND2	2.25	0.52
1:C:710:ASP:OD1	1:C:711:GLY:N	2.43	0.52
1:D:170:ARG:HH11	1:D:170:ARG:HG3	1.75	0.52
1:D:242:ARG:NH1	1:E:396:VAL:CG2	2.73	0.52
1:D:402:GLN:O	1:D:403:TRP:CB	2.56	0.52
1:D:745:PRO:HB2	1:D:747:TYR:CE1	2.45	0.52
1:E:76:THR:CG2	1:G:658:TYR:CE1	2.87	0.52
1:E:476:ILE:HG23	1:E:476:ILE:O	2.09	0.52
1:E:747:TYR:O	1:E:750:ARG:HD3	2.10	0.52
1:F:83:ARG:HD2	1:F:542:THR:OG1	2.10	0.52
1:F:351:PHE:CE2	1:F:353:MET:HB3	2.45	0.52
1:G:479:TYR:CD1	1:G:806:LEU:HG	2.45	0.52
1:G:618:ILE:HB	1:G:873:THR:OG1	2.10	0.52
1:H:9:GLN:NE2	4:R:31:MET:SD	2.55	0.52
1:H:316:ALA:O	1:H:542:THR:HG22	2.10	0.52
1:I:640:LEU:HD11	1:I:875:LEU:CD1	2.39	0.52
1:J:406:VAL:HG22	1:J:408:ASN:HB2	1.91	0.52
1:J:473:SER:HB2	1:J:792:CYS:CB	2.32	0.52
1:J:630:ARG:CB	1:J:859:ALA:HA	2.40	0.52
1:K:151:SER:HB2	1:L:417:GLY:O	2.10	0.52
1:K:292:ASN:HA	1:K:558:THR:OG1	2.10	0.52
1:L:395:GLU:OE1	1:L:395:GLU:N	2.37	0.52
2:M:106:GLU:C	2:M:107:LEU:HD12	2.30	0.52
3:N:30:ASN:O	3:N:32:LEU:C	2.47	0.52
3:N:46:THR:HG23	3:N:47:GLU:O	2.10	0.52
3:O:79:SER:O	3:O:83:LEU:CG	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:57:ASN:ND2	3:P:57:ASN:C	2.63	0.52
3:Q:57:ASN:ND2	3:Q:57:ASN:C	2.63	0.52
1:A:153:VAL:O	1:A:153:VAL:HG13	2.09	0.51
1:A:183:GLU:C	1:A:185:GLN:H	2.13	0.51
1:A:761:MET:HE1	1:A:824:LEU:HD13	1.91	0.51
1:B:107:LEU:HD12	1:B:108:ASP:H	1.75	0.51
1:B:337:TYR:HD1	1:B:532:ARG:HH22	1.57	0.51
1:B:435:LEU:O	1:B:439:VAL:HG22	2.09	0.51
1:C:107:LEU:HD12	1:C:108:ASP:H	1.75	0.51
1:C:153:VAL:HG13	1:C:153:VAL:O	2.09	0.51
1:C:436:TYR:HA	1:C:440:ALA:CB	2.40	0.51
1:D:36:GLU:HG3	1:D:36:GLU:O	2.10	0.51
1:D:246:ASN:HD21	1:D:248:ASN:HB3	1.75	0.51
1:D:630:ARG:CB	1:D:859:ALA:HA	2.40	0.51
1:E:377:MET:SD	1:F:432:ARG:HG2	2.50	0.51
1:F:710:ASP:OD1	1:F:711:GLY:N	2.42	0.51
1:G:165:MET:O	1:G:165:MET:HG2	2.10	0.51
1:G:426:LEU:CD2	1:I:426:LEU:HD11	2.36	0.51
1:H:208:ARG:HG2	1:H:208:ARG:HH11	1.75	0.51
1:H:293:PHE:O	1:H:557:SER:HA	2.10	0.51
1:I:618:ILE:HB	1:I:873:THR:OG1	2.10	0.51
1:J:107:LEU:HD12	1:J:108:ASP:H	1.76	0.51
1:J:246:ASN:HD21	1:J:248:ASN:HB3	1.75	0.51
1:J:311:ASN:HD21	1:J:654:PRO:HB3	1.74	0.51
1:J:414:ILE:HD13	1:L:253:PHE:CZ	2.45	0.51
1:J:436:TYR:HA	1:J:440:ALA:CB	2.39	0.51
1:L:35:THR:C	1:L:37:SER:H	2.13	0.51
1:L:83:ARG:HD2	1:L:542:THR:OG1	2.10	0.51
1:L:165:MET:O	1:L:165:MET:HG2	2.09	0.51
1:L:392:ARG:HD3	1:L:392:ARG:N	2.22	0.51
1:L:766:PRO:HG3	1:L:807:PRO:HG3	1.91	0.51
3:N:30:ASN:N	3:N:34:GLY:H	2.05	0.51
3:N:57:ASN:ND2	3:N:57:ASN:C	2.63	0.51
3:O:74:ILE:HD13	3:O:74:ILE:N	2.25	0.51
3:Q:103:ARG:O	3:Q:104:LEU:C	2.48	0.51
1:A:107:LEU:HD12	1:A:108:ASP:H	1.75	0.51
1:D:183:GLU:C	1:D:185:GLN:H	2.12	0.51
1:D:809:HIS:HA	1:D:814:HIS:CD2	2.44	0.51
1:E:60:ARG:HG2	1:J:60:ARG:C	2.30	0.51
1:E:450:THR:HG23	1:E:469:ARG:NH1	2.24	0.51
1:F:678:PHE:HB3	1:F:705:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:103:ILE:HG23	1:G:572:ILE:CD1	2.40	0.51
1:H:168:ASP:CB	1:H:174:VAL:HB	2.33	0.51
1:H:337:TYR:HD1	1:H:532:ARG:HH22	1.57	0.51
1:I:386:GLY:O	1:I:387:VAL:HB	2.10	0.51
1:J:406:VAL:O	1:J:407:ALA:HB3	2.10	0.51
1:L:618:ILE:HB	1:L:873:THR:OG1	2.10	0.51
2:M:133:PHE:CD2	2:M:241:HIS:NE2	2.77	0.51
2:M:198:LYS:HB3	2:M:230:VAL:CG1	2.39	0.51
3:N:76:VAL:CG2	3:N:77:GLU:OE2	2.55	0.51
3:N:103:ARG:O	3:N:104:LEU:C	2.48	0.51
3:O:25:ASP:CA	3:O:38:PRO:HB2	2.39	0.51
3:P:16:LEU:HD22	3:P:17:PRO:HD2	1.84	0.51
3:P:25:ASP:N	3:P:38:PRO:HB2	2.25	0.51
3:Q:30:ASN:O	3:Q:32:LEU:C	2.48	0.51
3:Q:72:TYR:CD1	3:Q:72:TYR:C	2.79	0.51
3:Q:74:ILE:HD13	3:Q:74:ILE:N	2.25	0.51
4:R:198:PRO:HB2	4:R:201:PHE:HB2	1.91	0.51
1:A:36:GLU:HG3	1:A:36:GLU:O	2.10	0.51
1:B:35:THR:C	1:B:37:SER:H	2.14	0.51
1:B:170:ARG:HG3	1:B:170:ARG:HH11	1.76	0.51
1:B:242:ARG:NH1	1:C:396:VAL:HG21	2.25	0.51
1:B:386:GLY:O	1:B:387:VAL:HB	2.09	0.51
1:C:351:PHE:CE2	1:C:353:MET:HB3	2.45	0.51
1:C:479:TYR:CD1	1:C:806:LEU:HG	2.45	0.51
1:D:114:LYS:HE2	1:D:264:ASP:HB2	1.93	0.51
1:D:165:MET:O	1:D:165:MET:HG2	2.11	0.51
1:D:406:VAL:O	1:D:407:ALA:HB3	2.10	0.51
1:E:59:GLU:HB3	1:J:60:ARG:HD2	1.91	0.51
1:E:379:ASN:HD22	1:E:379:ASN:N	2.07	0.51
1:E:640:LEU:HD11	1:E:875:LEU:CD1	2.40	0.51
1:E:678:PHE:HB3	1:E:705:ILE:HD12	1.91	0.51
1:G:293:PHE:O	1:G:557:SER:HA	2.11	0.51
1:G:322:LEU:HD11	4:R:35:SER:HA	1.91	0.51
1:H:9:GLN:CD	4:R:31:MET:HE1	2.29	0.51
1:H:242:ARG:NH1	1:I:396:VAL:HG21	2.25	0.51
1:H:292:ASN:HA	1:H:558:THR:OG1	2.10	0.51
1:H:379:ASN:HD22	1:H:379:ASN:N	2.07	0.51
1:H:683:ILE:HG23	1:H:860:LEU:HD11	1.92	0.51
1:H:768:PRO:HG3	3:Q:59:HIS:O	2.10	0.51
1:I:58:THR:HG21	1:I:62:GLN:NE2	2.26	0.51
1:I:479:TYR:CD1	1:I:806:LEU:HG	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:83:ARG:HD2	1:J:542:THR:OG1	2.09	0.51
1:J:170:ARG:HG3	1:J:170:ARG:HH11	1.75	0.51
1:J:386:GLY:O	1:J:387:VAL:HB	2.11	0.51
1:J:479:TYR:CD1	1:J:806:LEU:HG	2.45	0.51
1:K:316:ALA:O	1:K:542:THR:HG22	2.10	0.51
1:K:658:TYR:O	3:P:26:LYS:CE	2.58	0.51
1:L:479:TYR:CD1	1:L:806:LEU:HG	2.45	0.51
3:N:65:ARG:O	3:N:65:ARG:HD3	2.10	0.51
3:O:65:ARG:O	3:O:65:ARG:HD3	2.10	0.51
3:P:74:ILE:HD13	3:P:74:ILE:N	2.25	0.51
3:P:105:ARG:O	3:P:106:THR:C	2.49	0.51
3:Q:42:GLN:OE1	3:Q:42:GLN:N	2.42	0.51
1:A:165:MET:O	1:A:165:MET:HG2	2.11	0.51
1:A:402:GLN:O	1:A:403:TRP:CE3	2.63	0.51
1:C:67:ARG:CZ	1:D:81:LYS:HZ1	2.18	0.51
1:D:767:ASN:H	1:D:817:ARG:HA	1.75	0.51
1:E:809:HIS:HA	1:E:814:HIS:CD2	2.45	0.51
1:F:766:PRO:HD3	1:F:809:HIS:NE2	2.18	0.51
1:G:755:LEU:C	1:G:755:LEU:HD23	2.31	0.51
1:H:809:HIS:HA	1:H:814:HIS:CD2	2.45	0.51
1:I:107:LEU:HD12	1:I:108:ASP:H	1.75	0.51
1:I:165:MET:O	1:I:165:MET:HG2	2.10	0.51
1:J:160:ASN:OD1	1:K:398:ARG:NH2	2.44	0.51
1:J:165:MET:O	1:J:165:MET:HG2	2.10	0.51
1:J:231:LYS:HG3	1:J:258:ALA:CA	2.40	0.51
1:J:242:ARG:NH1	1:K:396:VAL:CG2	2.73	0.51
1:J:767:ASN:H	1:J:817:ARG:HA	1.75	0.51
1:K:386:GLY:O	1:K:387:VAL:HB	2.10	0.51
1:K:436:TYR:HA	1:K:440:ALA:HB3	1.92	0.51
1:L:58:THR:HG21	1:L:62:GLN:NE2	2.26	0.51
1:L:406:VAL:HG22	1:L:408:ASN:HB2	1.92	0.51
1:L:476:ILE:HG23	1:L:476:ILE:O	2.09	0.51
3:N:77:GLU:N	3:N:80:LEU:CD1	2.74	0.51
3:O:105:ARG:O	3:O:106:THR:C	2.49	0.51
3:P:46:THR:HG23	3:P:47:GLU:O	2.10	0.51
3:P:62:GLY:O	3:P:63:ALA:HB3	2.10	0.51
3:P:95:GLN:O	3:P:96:GLN:C	2.49	0.51
4:R:206:ASN:HD22	4:R:206:ASN:N	2.01	0.51
1:A:479:TYR:CD1	1:A:806:LEU:HG	2.45	0.51
1:A:767:ASN:H	1:A:817:ARG:HA	1.75	0.51
1:B:316:ALA:O	1:B:542:THR:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:414:ILE:HD13	1:F:253:PHE:CZ	2.45	0.51
1:E:399:ASN:HD21	1:E:400:GLN:HE21	1.57	0.51
1:E:683:ILE:HG23	1:E:860:LEU:HD11	1.92	0.51
1:E:761:MET:HE3	1:E:824:LEU:HD13	1.91	0.51
1:F:406:VAL:HG22	1:F:408:ASN:HB2	1.92	0.51
1:G:862:MET:O	1:L:909:ALA:CB	2.58	0.51
1:H:35:THR:C	1:H:37:SER:H	2.14	0.51
1:H:271:VAL:CB	1:H:272:PRO:HD3	2.33	0.51
1:H:399:ASN:HD21	1:H:400:GLN:HE21	1.57	0.51
1:H:804:LEU:HD11	1:I:222:PRO:CB	2.33	0.51
1:I:316:ALA:O	1:I:542:THR:HG22	2.11	0.51
1:I:472:VAL:HG13	1:I:475:LEU:CD1	2.41	0.51
1:J:755:LEU:C	1:J:755:LEU:HD23	2.31	0.51
1:K:293:PHE:O	1:K:557:SER:HA	2.10	0.51
1:K:799:HIS:CD2	1:K:800:PRO:HD2	2.42	0.51
1:L:367:VAL:HG23	1:L:367:VAL:O	2.10	0.51
1:L:714:TYR:O	1:L:723:LYS:HG3	2.11	0.51
2:M:122:TYR:HE1	2:M:432:PRO:HD3	1.75	0.51
3:N:90:LEU:HD22	3:P:90:LEU:HD23	0.51	0.51
3:O:25:ASP:N	3:O:38:PRO:HB2	2.26	0.51
3:O:98:LEU:O	3:O:99:ALA:C	2.49	0.51
3:P:35:VAL:CG1	3:P:67:GLU:OE2	2.58	0.51
3:P:104:LEU:O	3:P:105:ARG:C	2.49	0.51
1:A:322:LEU:CD2	2:M:443:ARG:NH1	2.74	0.51
1:A:813:ARG:NH2	1:B:261:LEU:HB2	2.26	0.51
1:B:755:LEU:C	1:B:755:LEU:HD23	2.31	0.51
1:B:809:HIS:HA	1:B:814:HIS:CD2	2.45	0.51
1:C:58:THR:HG21	1:C:62:GLN:NE2	2.26	0.51
1:C:367:VAL:HG23	1:C:367:VAL:O	2.10	0.51
1:D:293:PHE:O	1:D:557:SER:HA	2.11	0.51
1:D:386:GLY:O	1:D:387:VAL:HB	2.11	0.51
1:D:392:ARG:HB2	1:D:411:ASN:HA	1.92	0.51
1:D:479:TYR:CD1	1:D:806:LEU:HG	2.45	0.51
1:E:755:LEU:HD23	1:E:755:LEU:C	2.31	0.51
1:F:36:GLU:HG3	1:F:36:GLU:O	2.10	0.51
1:F:107:LEU:HD12	1:F:108:ASP:H	1.75	0.51
1:F:436:TYR:HA	1:F:440:ALA:CB	2.40	0.51
1:F:706:LYS:HD2	1:F:720:ASN:ND2	2.25	0.51
1:G:160:ASN:OD1	1:H:398:ARG:NH2	2.44	0.51
1:G:271:VAL:CB	1:G:272:PRO:HD3	2.34	0.51
1:H:641:THR:CG2	1:H:642:ARG:H	2.01	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:114:LYS:HE2	1:J:264:ASP:HB2	1.93	0.51
1:J:367:VAL:HG23	1:J:367:VAL:O	2.11	0.51
1:J:426:LEU:CD2	1:L:426:LEU:HD11	2.36	0.51
1:J:536:LEU:HA	1:J:889:GLN:HE22	1.76	0.51
1:K:683:ILE:HG23	1:K:860:LEU:HD11	1.92	0.51
1:K:786:ALA:HB2	1:K:799:HIS:N	2.25	0.51
1:L:392:ARG:HB2	1:L:411:ASN:HA	1.92	0.51
1:L:399:ASN:HD21	1:L:400:GLN:HE21	1.56	0.51
2:M:319:LEU:O	2:M:323:TYR:HB2	2.10	0.51
3:P:65:ARG:HA	3:P:65:ARG:NE	2.09	0.51
3:Q:108:LEU:O	3:Q:109:ALA:C	2.49	0.51
4:R:197:TYR:HB3	4:R:198:PRO:CD	2.37	0.51
1:A:242:ARG:NH1	1:B:396:VAL:CG2	2.73	0.51
1:A:536:LEU:HA	1:A:889:GLN:HE22	1.76	0.51
1:A:747:TYR:O	1:A:750:ARG:HD3	2.10	0.51
1:B:351:PHE:CE2	1:B:353:MET:HB3	2.46	0.51
1:B:377:MET:SD	1:C:432:ARG:HG2	2.51	0.51
1:C:132:ASN:HB3	1:C:206:VAL:CG2	2.35	0.51
1:C:137:GLN:O	1:C:139:ASN:N	2.44	0.51
1:D:107:LEU:HD12	1:D:108:ASP:H	1.75	0.51
1:D:271:VAL:CB	1:D:272:PRO:HD3	2.34	0.51
1:D:367:VAL:HG23	1:D:367:VAL:O	2.11	0.51
1:D:536:LEU:HA	1:D:889:GLN:HE22	1.76	0.51
1:D:724:ASP:O	1:D:728:VAL:HG23	2.11	0.51
1:D:755:LEU:HD23	1:D:755:LEU:C	2.31	0.51
1:E:151:SER:HB2	1:F:417:GLY:O	2.10	0.51
1:E:632:TRP:HD1	1:G:321:GLN:HB3	0.89	0.51
1:G:396:VAL:CG2	1:I:242:ARG:NH1	2.73	0.51
1:H:165:MET:HG2	1:H:165:MET:O	2.11	0.51
1:I:683:ILE:HG23	1:I:860:LEU:HD11	1.91	0.51
1:J:396:VAL:CG2	1:L:242:ARG:NH1	2.73	0.51
1:J:724:ASP:O	1:J:728:VAL:HG23	2.11	0.51
1:K:458:PRO:HG3	3:P:65:ARG:O	2.05	0.51
1:K:614:MET:CE	3:P:15:ARG:HH12	2.23	0.51
1:L:436:TYR:HA	1:L:440:ALA:CB	2.40	0.51
3:N:95:GLN:O	3:N:96:GLN:C	2.49	0.51
3:O:16:LEU:CD2	3:O:17:PRO:HD2	2.41	0.51
3:O:18:LYS:CG	3:O:19:TRP:H	2.22	0.51
3:P:97:LEU:O	3:P:98:LEU:C	2.48	0.51
3:Q:97:LEU:O	3:Q:98:LEU:C	2.48	0.51
4:R:197:TYR:CB	4:R:198:PRO:HD2	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:ARG:HG2	1:A:208:ARG:HH11	1.75	0.51
1:B:683:ILE:HG23	1:B:860:LEU:HD11	1.92	0.51
1:C:293:PHE:O	1:C:557:SER:HA	2.11	0.51
1:C:392:ARG:HB2	1:C:411:ASN:HA	1.91	0.51
1:C:630:ARG:CB	1:C:859:ALA:HA	2.41	0.51
1:D:426:LEU:CD2	1:F:426:LEU:HD11	2.36	0.51
1:E:35:THR:C	1:E:37:SER:H	2.14	0.51
1:E:293:PHE:O	1:E:557:SER:HA	2.10	0.51
1:E:312:LEU:HD11	1:E:327:ASP:H	1.76	0.51
1:E:386:GLY:O	1:E:387:VAL:HB	2.09	0.51
1:E:436:TYR:HA	1:E:440:ALA:HB3	1.92	0.51
1:F:35:THR:C	1:F:37:SER:H	2.13	0.51
1:F:367:VAL:O	1:F:367:VAL:HG23	2.10	0.51
1:G:536:LEU:HA	1:G:889:GLN:HE22	1.76	0.51
1:G:761:MET:HE1	1:G:824:LEU:HD13	1.93	0.51
1:H:58:THR:HG21	1:H:62:GLN:NE2	2.25	0.51
1:H:137:GLN:O	1:H:139:ASN:N	2.44	0.51
1:I:153:VAL:O	1:I:153:VAL:HG13	2.09	0.51
1:I:714:TYR:O	1:I:723:LYS:HG3	2.11	0.51
1:I:755:LEU:HD23	1:I:755:LEU:C	2.32	0.51
1:J:398:ARG:NH2	1:L:160:ASN:OD1	2.44	0.51
1:K:242:ARG:NH1	1:L:396:VAL:HG21	2.25	0.51
1:K:564:ARG:HG3	3:P:31:MET:O	2.07	0.51
1:K:658:TYR:CE2	3:P:21:GLY:CA	2.93	0.51
1:L:298:ASP:O	1:L:301:VAL:HG13	2.11	0.51
3:N:72:TYR:O	3:N:72:TYR:HD1	1.93	0.51
3:O:55:ARG:O	3:O:56:ASP:CB	2.59	0.51
3:O:62:GLY:O	3:O:63:ALA:HB3	2.10	0.51
3:O:104:LEU:HD21	3:P:104:LEU:HB3	1.93	0.51
3:P:30:ASN:N	3:P:34:GLY:H	2.05	0.51
3:P:72:TYR:O	3:P:72:TYR:HD1	1.92	0.51
3:P:96:GLN:O	3:P:97:LEU:C	2.49	0.51
3:P:106:THR:O	3:P:107:GLY:C	2.48	0.51
3:Q:95:GLN:O	3:Q:96:GLN:C	2.49	0.51
1:A:618:ILE:HB	1:A:873:THR:OG1	2.10	0.51
1:A:755:LEU:HD23	1:A:755:LEU:C	2.31	0.51
1:B:76:THR:OG1	1:J:658:TYR:CE1	2.51	0.51
1:B:804:LEU:HD23	1:B:804:LEU:C	2.31	0.51
1:C:183:GLU:C	1:C:185:GLN:H	2.14	0.51
1:C:386:GLY:O	1:C:387:VAL:HB	2.10	0.51
1:C:443:LEU:HD23	1:C:491:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:804:LEU:C	1:C:804:LEU:HD23	2.31	0.51
1:D:160:ASN:OD1	1:E:398:ARG:NH2	2.44	0.51
1:D:392:ARG:HD3	1:D:392:ARG:N	2.22	0.51
1:D:473:SER:HB2	1:D:792:CYS:CB	2.32	0.51
1:E:804:LEU:HD23	1:E:804:LEU:C	2.32	0.51
1:F:137:GLN:O	1:F:139:ASN:N	2.44	0.51
1:F:316:ALA:O	1:F:542:THR:HG22	2.11	0.51
1:F:450:THR:HG23	1:F:469:ARG:NH1	2.26	0.51
1:F:630:ARG:CB	1:F:859:ALA:HA	2.41	0.51
1:G:386:GLY:O	1:G:387:VAL:HB	2.11	0.51
1:G:734:TYR:O	1:G:736:ILE:HG13	2.10	0.51
1:H:241:TYR:HD2	1:I:393:SER:HG	1.58	0.51
1:H:312:LEU:HD11	1:H:327:ASP:H	1.76	0.51
1:H:402:GLN:O	1:H:403:TRP:CE3	2.62	0.51
1:I:451:PRO:CB	1:I:454:ILE:HD12	2.41	0.51
1:J:293:PHE:O	1:J:557:SER:HA	2.10	0.51
1:J:813:ARG:NH2	1:K:261:LEU:HB2	2.26	0.51
1:K:35:THR:C	1:K:37:SER:H	2.14	0.51
1:K:170:ARG:HG2	1:K:171:GLN:N	2.22	0.51
1:K:253:PHE:CZ	1:L:414:ILE:HD13	2.46	0.51
1:L:410:ASP:O	1:L:411:ASN:HB2	2.11	0.51
1:L:706:LYS:HD2	1:L:720:ASN:ND2	2.25	0.51
3:O:106:THR:O	3:O:107:GLY:C	2.48	0.51
3:P:77:GLU:N	3:P:80:LEU:CD1	2.73	0.51
3:P:101:LEU:O	3:P:102:ASN:C	2.50	0.51
1:A:258:ALA:HB3	1:A:260:VAL:HG13	1.93	0.51
1:A:906:ALA:O	2:M:100:ALA:CA	2.51	0.51
1:B:183:GLU:C	1:B:185:GLN:H	2.15	0.51
1:C:316:ALA:O	1:C:542:THR:HG22	2.11	0.51
1:C:406:VAL:HG22	1:C:408:ASN:HB2	1.92	0.51
1:C:472:VAL:HG13	1:C:475:LEU:CD1	2.41	0.51
1:C:724:ASP:O	1:C:728:VAL:HG23	2.11	0.51
1:D:528:PHE:CE2	1:D:530:ALA:HB3	2.46	0.51
1:D:618:ILE:HB	1:D:873:THR:OG1	2.10	0.51
1:E:76:THR:HG21	1:G:658:TYR:CE1	2.46	0.51
1:F:293:PHE:O	1:F:557:SER:HA	2.11	0.51
1:F:443:LEU:HD23	1:F:491:MET:SD	2.51	0.51
1:F:714:TYR:O	1:F:723:LYS:HG3	2.11	0.51
1:G:764:GLN:OE1	1:H:513:GLY:HA3	2.10	0.51
1:G:766:PRO:HD3	1:G:809:HIS:NE2	2.20	0.51
1:G:813:ARG:NH2	1:H:261:LEU:HB2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:103:ILE:HG23	1:H:572:ILE:CD1	2.41	0.51
1:H:377:MET:SD	1:I:432:ARG:HG2	2.50	0.51
1:I:135:PHE:CE1	1:I:145:GLN:HB3	2.45	0.51
1:I:298:ASP:O	1:I:301:VAL:HG13	2.11	0.51
1:I:311:ASN:HD21	1:I:654:PRO:HB3	1.75	0.51
1:I:443:LEU:HD23	1:I:491:MET:SD	2.51	0.51
1:I:450:THR:HG23	1:I:469:ARG:NH1	2.26	0.51
1:J:592:LEU:HD13	1:K:31:PHE:CE2	2.46	0.51
1:K:137:GLN:O	1:K:139:ASN:N	2.44	0.51
1:K:183:GLU:C	1:K:185:GLN:H	2.15	0.51
1:K:377:MET:SD	1:L:432:ARG:HG2	2.50	0.51
1:K:804:LEU:C	1:K:804:LEU:HD23	2.32	0.51
1:L:443:LEU:HD23	1:L:491:MET:SD	2.51	0.51
1:L:683:ILE:HG23	1:L:860:LEU:HD11	1.91	0.51
1:L:745:PRO:HB2	1:L:747:TYR:CE1	2.46	0.51
2:M:280:GLU:HG2	2:M:285:LYS:HZ2	1.76	0.51
2:M:350:TRP:CH2	2:M:454:LEU:HD21	2.45	0.51
3:N:97:LEU:O	3:N:98:LEU:C	2.48	0.51
3:N:100:THR:O	3:N:101:LEU:C	2.50	0.51
3:O:29:SER:OG	3:O:64:ARG:NH1	2.44	0.51
3:O:57:ASN:C	3:O:57:ASN:ND2	2.63	0.51
3:P:15:ARG:NH1	3:P:15:ARG:HG2	2.21	0.51
3:P:102:ASN:O	3:P:103:ARG:C	2.49	0.51
3:Q:62:GLY:O	3:Q:63:ALA:HB3	2.11	0.51
3:Q:100:THR:O	3:Q:101:LEU:C	2.50	0.51
1:A:109:ARG:HH21	1:A:512:LEU:HB2	1.73	0.50
1:A:166:GLY:C	1:A:174:VAL:HG12	2.32	0.50
1:A:426:LEU:CD2	1:C:426:LEU:HD11	2.36	0.50
1:A:592:LEU:HD13	1:B:31:PHE:CE2	2.47	0.50
1:B:451:PRO:CB	1:B:454:ILE:HD12	2.41	0.50
1:C:36:GLU:HG3	1:C:36:GLU:O	2.10	0.50
1:C:311:ASN:HD21	1:C:654:PRO:HB3	1.75	0.50
1:D:258:ALA:HB3	1:D:260:VAL:HG13	1.93	0.50
1:D:484:THR:HG23	1:E:514:ASN:CB	2.38	0.50
1:D:762:CYS:SG	1:D:821:ARG:NH1	2.84	0.50
1:E:165:MET:HG2	1:E:165:MET:O	2.11	0.50
1:E:183:GLU:C	1:E:185:GLN:H	2.15	0.50
1:E:242:ARG:NH1	1:F:396:VAL:HG21	2.25	0.50
1:F:311:ASN:HD21	1:F:654:PRO:HB3	1.75	0.50
1:F:755:LEU:HD23	1:F:755:LEU:C	2.32	0.50
1:G:205:ARG:NE	1:G:256:GLU:OE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:231:LYS:HG3	1:G:258:ALA:CA	2.41	0.50
1:G:641:THR:CG2	1:G:642:ARG:H	2.02	0.50
1:H:107:LEU:HD12	1:H:108:ASP:H	1.75	0.50
1:H:183:GLU:C	1:H:185:GLN:H	2.15	0.50
1:H:618:ILE:HB	1:H:873:THR:OG1	2.11	0.50
1:I:137:GLN:O	1:I:139:ASN:N	2.44	0.50
1:I:903:PRO:HB2	1:I:904:PHE:HD1	1.76	0.50
1:J:115:PRO:O	1:J:116:TYR:HB3	2.12	0.50
1:J:470:ILE:HG23	1:J:793:ARG:HD3	1.93	0.50
1:J:759:ILE:O	1:J:759:ILE:HG13	2.11	0.50
1:K:351:PHE:CE2	1:K:353:MET:HB3	2.46	0.50
1:K:402:GLN:O	1:K:403:TRP:CE3	2.62	0.50
1:K:755:LEU:HD23	1:K:755:LEU:C	2.31	0.50
1:L:107:LEU:HD12	1:L:108:ASP:H	1.75	0.50
1:L:183:GLU:C	1:L:185:GLN:H	2.15	0.50
3:N:96:GLN:O	3:N:97:LEU:C	2.49	0.50
3:O:96:GLN:O	3:O:97:LEU:C	2.49	0.50
3:P:100:THR:O	3:P:101:LEU:C	2.50	0.50
3:Q:79:SER:O	3:Q:83:LEU:CG	2.52	0.50
1:A:246:ASN:HD21	1:A:248:ASN:HB3	1.75	0.50
1:A:383:PRO:HG3	1:B:422:MET:SD	2.52	0.50
1:A:762:CYS:SG	1:A:821:ARG:NH1	2.84	0.50
1:B:293:PHE:O	1:B:557:SER:HA	2.10	0.50
1:B:436:TYR:HA	1:B:440:ALA:HB3	1.92	0.50
1:B:618:ILE:HB	1:B:873:THR:OG1	2.11	0.50
1:C:396:VAL:HG13	1:C:404:GLN:C	2.30	0.50
1:C:399:ASN:HD21	1:C:400:GLN:HE21	1.56	0.50
1:C:811:ASP:CG	1:C:812:PRO:HD2	2.32	0.50
1:D:533:ASN:HB2	1:D:605:PHE:HE2	1.74	0.50
1:F:58:THR:HG21	1:F:62:GLN:NE2	2.26	0.50
1:G:36:GLU:HG3	1:G:36:GLU:O	2.10	0.50
1:G:107:LEU:HD12	1:G:108:ASP:H	1.76	0.50
1:G:383:PRO:HG3	1:H:422:MET:SD	2.52	0.50
1:G:402:GLN:O	1:G:403:TRP:CE3	2.63	0.50
1:G:592:LEU:HD13	1:H:31:PHE:CE2	2.46	0.50
1:G:759:ILE:O	1:G:759:ILE:HG13	2.12	0.50
1:G:804:LEU:HD11	1:H:222:PRO:CB	2.33	0.50
1:H:166:GLY:C	1:H:174:VAL:HG12	2.32	0.50
1:H:240:TYR:HD2	1:H:249:PRO:HB3	1.77	0.50
1:H:253:PHE:CZ	1:I:414:ILE:HD13	2.46	0.50
1:H:680:LYS:HD2	3:Q:19:TRP:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:618:ILE:HB	1:K:873:THR:OG1	2.11	0.50
1:L:293:PHE:O	1:L:557:SER:HA	2.11	0.50
1:L:804:LEU:HD23	1:L:804:LEU:C	2.31	0.50
2:M:127:ASN:HB2	2:M:164:PHE:HD1	1.68	0.50
3:N:98:LEU:O	3:N:99:ALA:C	2.49	0.50
3:P:35:VAL:HG11	3:P:64:ARG:H	1.75	0.50
3:P:55:ARG:O	3:P:56:ASP:CB	2.59	0.50
3:Q:34:GLY:CA	3:Q:64:ARG:HH11	2.25	0.50
3:Q:35:VAL:HG11	3:Q:64:ARG:H	1.75	0.50
1:A:293:PHE:O	1:A:557:SER:HA	2.11	0.50
1:A:367:VAL:O	1:A:367:VAL:HG23	2.11	0.50
1:A:398:ARG:NH2	1:C:160:ASN:OD1	2.44	0.50
1:B:253:PHE:CZ	1:C:414:ILE:HD13	2.46	0.50
1:B:312:LEU:HD11	1:B:327:ASP:H	1.76	0.50
1:E:208:ARG:HH11	1:E:208:ARG:HG2	1.75	0.50
1:E:892:ARG:O	1:G:909:ALA:O	2.29	0.50
1:F:135:PHE:CE1	1:F:145:GLN:HB3	2.45	0.50
1:F:205:ARG:NE	1:F:256:GLU:OE2	2.45	0.50
1:F:804:LEU:HD23	1:F:804:LEU:C	2.31	0.50
1:H:205:ARG:NE	1:H:256:GLU:OE2	2.45	0.50
1:H:351:PHE:CE2	1:H:353:MET:HB3	2.46	0.50
1:I:170:ARG:HH11	1:I:170:ARG:HG3	1.77	0.50
1:I:183:GLU:C	1:I:185:GLN:H	2.14	0.50
1:I:804:LEU:HD23	1:I:804:LEU:C	2.31	0.50
1:L:126:PRO:C	1:L:128:SER:H	2.15	0.50
1:L:311:ASN:HD21	1:L:654:PRO:HB3	1.75	0.50
1:L:398:ARG:HB3	1:L:403:TRP:CE2	2.46	0.50
3:N:16:LEU:HD22	3:N:17:PRO:HD2	1.83	0.50
3:N:48:THR:HG22	3:N:49:VAL:N	2.26	0.50
3:N:55:ARG:O	3:N:56:ASP:CB	2.59	0.50
3:N:99:ALA:O	3:N:100:THR:C	2.50	0.50
3:N:101:LEU:O	3:N:102:ASN:C	2.49	0.50
3:O:15:ARG:O	3:O:15:ARG:CD	2.52	0.50
3:P:109:ALA:O	3:P:110:ALA:C	2.50	0.50
1:A:115:PRO:O	1:A:116:TYR:HB3	2.12	0.50
1:A:386:GLY:O	1:A:387:VAL:HB	2.11	0.50
1:A:392:ARG:HB2	1:A:411:ASN:HA	1.92	0.50
1:A:774:PHE:CE2	1:B:223:THR:HA	2.47	0.50
1:B:10:TRP:HB3	1:B:15:ILE:HB	1.94	0.50
1:B:137:GLN:O	1:B:139:ASN:N	2.44	0.50
1:B:240:TYR:HD2	1:B:249:PRO:HB3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:402:GLN:O	1:C:403:TRP:CE3	2.64	0.50
1:D:133:THR:CG2	1:D:212:GLN:HG3	2.39	0.50
1:D:205:ARG:NE	1:D:256:GLU:OE2	2.45	0.50
1:D:398:ARG:NH2	1:F:160:ASN:OD1	2.44	0.50
1:F:811:ASP:CG	1:F:812:PRO:HD2	2.31	0.50
1:G:170:ARG:HH11	1:G:170:ARG:HG3	1.76	0.50
1:G:242:ARG:NH1	1:H:396:VAL:CG2	2.73	0.50
1:G:246:ASN:HD21	1:G:248:ASN:HB3	1.75	0.50
1:G:888:HIS:ND1	1:G:890:PRO:HD3	2.27	0.50
1:I:367:VAL:O	1:I:367:VAL:HG23	2.10	0.50
1:I:410:ASP:O	1:I:411:ASN:HB2	2.11	0.50
1:I:678:PHE:HB3	1:I:705:ILE:HD12	1.92	0.50
1:I:724:ASP:O	1:I:728:VAL:HG23	2.11	0.50
1:J:205:ARG:NE	1:J:256:GLU:OE2	2.44	0.50
1:J:392:ARG:HD3	1:J:392:ARG:N	2.22	0.50
1:J:764:GLN:OE1	1:K:513:GLY:HA3	2.10	0.50
1:K:392:ARG:HD3	1:K:392:ARG:N	2.21	0.50
1:L:316:ALA:O	1:L:542:THR:HG22	2.11	0.50
2:M:157:LEU:HD11	2:M:177:ILE:HD13	1.93	0.50
3:N:25:ASP:N	3:N:38:PRO:HB2	2.25	0.50
3:N:104:LEU:O	3:N:105:ARG:C	2.49	0.50
3:N:106:THR:O	3:N:107:GLY:C	2.48	0.50
3:N:109:ALA:O	3:N:110:ALA:C	2.50	0.50
3:O:18:LYS:CG	3:O:19:TRP:N	2.75	0.50
3:P:29:SER:OG	3:P:64:ARG:NH1	2.45	0.50
4:R:198:PRO:O	4:R:200:GLN:N	2.45	0.50
1:A:133:THR:CG2	1:A:212:GLN:HG3	2.39	0.50
1:A:406:VAL:O	1:A:407:ALA:HB3	2.10	0.50
1:A:724:ASP:O	1:A:728:VAL:HG23	2.11	0.50
1:B:367:VAL:HG23	1:B:367:VAL:O	2.12	0.50
1:C:398:ARG:HB3	1:C:403:TRP:CE2	2.46	0.50
1:D:222:PRO:CB	1:F:804:LEU:HD11	2.36	0.50
1:D:379:ASN:HD22	1:D:379:ASN:N	2.07	0.50
1:D:592:LEU:HD13	1:E:31:PHE:CE2	2.46	0.50
1:D:813:ARG:NH2	1:E:261:LEU:HB2	2.26	0.50
1:F:103:ILE:HG23	1:F:572:ILE:CD1	2.42	0.50
1:F:126:PRO:C	1:F:128:SER:H	2.15	0.50
1:F:183:GLU:C	1:F:185:GLN:H	2.15	0.50
1:F:392:ARG:HB2	1:F:411:ASN:HA	1.91	0.50
1:F:451:PRO:CB	1:F:454:ILE:HD12	2.41	0.50
1:F:472:VAL:HG13	1:F:475:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:263:PRO:CD	1:I:813:ARG:HH21	2.00	0.50
1:G:762:CYS:SG	1:G:821:ARG:NH1	2.84	0.50
1:H:423:GLU:OE2	1:I:126:PRO:HA	2.12	0.50
1:H:495:ASN:HB3	1:H:498:ASN:HD22	1.76	0.50
1:H:755:LEU:HD23	1:H:755:LEU:C	2.31	0.50
1:J:258:ALA:HB3	1:J:260:VAL:HG13	1.93	0.50
1:J:383:PRO:HG3	1:K:422:MET:SD	2.52	0.50
1:J:762:CYS:SG	1:J:821:ARG:NH1	2.84	0.50
1:K:170:ARG:HH11	1:K:170:ARG:HG3	1.75	0.50
1:L:137:GLN:O	1:L:139:ASN:N	2.44	0.50
1:L:282:LEU:HD12	1:L:282:LEU:N	2.27	0.50
1:L:451:PRO:CB	1:L:454:ILE:HD12	2.41	0.50
1:L:472:VAL:HG13	1:L:475:LEU:CD1	2.41	0.50
1:L:724:ASP:O	1:L:728:VAL:HG23	2.12	0.50
3:N:29:SER:OG	3:N:64:ARG:NH1	2.45	0.50
1:A:35:THR:C	1:A:37:SER:H	2.15	0.50
1:A:528:PHE:CE2	1:A:530:ALA:HB3	2.46	0.50
1:B:165:MET:HG2	1:B:165:MET:O	2.11	0.50
1:B:402:GLN:O	1:B:403:TRP:CE3	2.62	0.50
1:C:67:ARG:NH1	1:C:576:ASN:ND2	2.59	0.50
1:C:282:LEU:HD12	1:C:282:LEU:N	2.27	0.50
1:C:678:PHE:HB3	1:C:705:ILE:HD12	1.92	0.50
1:C:745:PRO:HB2	1:C:747:TYR:CE1	2.46	0.50
1:D:115:PRO:O	1:D:116:TYR:HB3	2.11	0.50
1:E:170:ARG:HG3	1:E:170:ARG:HH11	1.75	0.50
1:E:472:VAL:HG13	1:E:475:LEU:CD1	2.42	0.50
1:E:618:ILE:HB	1:E:873:THR:OG1	2.11	0.50
1:E:799:HIS:CD2	1:E:800:PRO:HD2	2.42	0.50
1:F:783:THR:HA	1:F:803:GLN:CB	2.42	0.50
1:G:76:THR:HG22	1:G:77:GLN:N	2.27	0.50
1:G:406:VAL:O	1:G:407:ALA:HB3	2.10	0.50
1:G:470:ILE:HG23	1:G:793:ARG:HD3	1.94	0.50
1:I:67:ARG:NH1	1:I:576:ASN:ND2	2.59	0.50
1:I:396:VAL:HG13	1:I:404:GLN:C	2.30	0.50
1:I:745:PRO:HB2	1:I:747:TYR:CE1	2.46	0.50
1:J:166:GLY:C	1:J:174:VAL:HG12	2.32	0.50
1:J:774:PHE:CE2	1:K:223:THR:HA	2.47	0.50
1:K:166:GLY:C	1:K:174:VAL:HG12	2.32	0.50
1:K:208:ARG:HG2	1:K:208:ARG:HH11	1.75	0.50
3:N:108:LEU:O	3:N:109:ALA:C	2.49	0.50
3:O:104:LEU:O	3:O:105:ARG:C	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:108:LEU:O	3:O:109:ALA:C	2.49	0.50
3:Q:15:ARG:O	3:Q:16:LEU:HB2	2.11	0.50
3:Q:48:THR:HG22	3:Q:49:VAL:N	2.26	0.50
3:Q:96:GLN:O	3:Q:97:LEU:C	2.49	0.50
1:A:126:PRO:C	1:A:128:SER:H	2.15	0.50
1:A:160:ASN:OD1	1:B:398:ARG:NH2	2.44	0.50
1:A:470:ILE:HG23	1:A:793:ARG:HD3	1.94	0.50
1:A:906:ALA:HA	2:M:102:ASN:HB3	1.93	0.50
1:B:399:ASN:HD21	1:B:400:GLN:HE21	1.57	0.50
1:B:689:VAL:CG2	1:D:906:ALA:CA	2.89	0.50
1:C:450:THR:HG23	1:C:469:ARG:NH1	2.26	0.50
1:C:714:TYR:O	1:C:723:LYS:HG3	2.11	0.50
1:E:367:VAL:HG23	1:E:367:VAL:O	2.11	0.50
1:E:759:ILE:HG13	1:E:759:ILE:O	2.12	0.50
1:F:410:ASP:O	1:F:411:ASN:HB2	2.11	0.50
1:F:724:ASP:O	1:F:728:VAL:HG23	2.11	0.50
1:G:114:LYS:HE2	1:G:264:ASP:HB2	1.93	0.50
1:G:355:ASN:ND2	1:G:508:ARG:HG2	2.27	0.50
1:G:879:PHE:O	1:G:881:VAL:HG13	2.12	0.50
1:G:903:PRO:HB2	1:G:904:PHE:HD1	1.77	0.50
1:H:451:PRO:CB	1:H:454:ILE:HD12	2.42	0.50
1:H:786:ALA:HB2	1:H:799:HIS:N	2.25	0.50
1:I:630:ARG:CB	1:I:859:ALA:HA	2.41	0.50
1:J:76:THR:HG22	1:J:77:GLN:N	2.27	0.50
1:J:879:PHE:O	1:J:881:VAL:HG13	2.12	0.50
1:K:103:ILE:HG23	1:K:572:ILE:CD1	2.41	0.50
1:K:865:GLU:HB2	3:O:19:TRP:CH2	2.47	0.50
1:L:36:GLU:HG3	1:L:36:GLU:O	2.10	0.50
1:L:630:ARG:CB	1:L:859:ALA:HA	2.41	0.50
1:L:755:LEU:HD23	1:L:755:LEU:C	2.32	0.50
1:L:903:PRO:HB2	1:L:904:PHE:HD1	1.76	0.50
3:N:34:GLY:CA	3:N:64:ARG:HH11	2.25	0.50
3:N:62:GLY:O	3:N:63:ALA:HB3	2.11	0.50
3:O:48:THR:HG22	3:O:49:VAL:N	2.26	0.50
3:O:57:ASN:HB3	3:O:62:GLY:HA3	1.90	0.50
3:O:77:GLU:N	3:O:80:LEU:CD1	2.73	0.50
3:O:102:ASN:O	3:O:103:ARG:C	2.49	0.50
3:O:103:ARG:NH1	3:P:105:ARG:HH21	2.09	0.50
3:P:55:ARG:C	3:P:56:ASP:OD1	2.50	0.50
1:A:170:ARG:HH11	1:A:170:ARG:HG3	1.76	0.50
1:B:38:TYR:CD1	1:B:38:TYR:N	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:303:LEU:HG	1:B:554:ILE:HG23	1.94	0.50
1:C:135:PHE:CE1	1:C:145:GLN:HB3	2.45	0.50
1:C:451:PRO:CB	1:C:454:ILE:HD12	2.41	0.50
1:D:282:LEU:HD12	1:D:282:LEU:N	2.27	0.50
1:D:383:PRO:HG3	1:E:422:MET:SD	2.52	0.50
1:D:804:LEU:HD11	1:E:222:PRO:CB	2.33	0.50
1:E:351:PHE:CE2	1:E:353:MET:HB3	2.46	0.50
1:F:298:ASP:O	1:F:301:VAL:HG13	2.11	0.50
1:F:745:PRO:HB2	1:F:747:TYR:CE1	2.46	0.50
1:G:398:ARG:NH2	1:I:160:ASN:OD1	2.44	0.50
1:H:38:TYR:CD1	1:H:38:TYR:N	2.80	0.50
1:H:73:ARG:HH21	1:L:72:ASP:HB2	1.75	0.50
1:H:167:VAL:O	1:H:168:ASP:C	2.51	0.50
1:H:472:VAL:HG13	1:H:475:LEU:CD1	2.42	0.50
1:H:536:LEU:HA	1:H:889:GLN:HE22	1.77	0.50
1:I:132:ASN:HB3	1:I:206:VAL:CG2	2.34	0.50
1:J:7:LEU:HD22	4:R:16:GLN:N	2.27	0.50
1:K:205:ARG:NE	1:K:256:GLU:OE2	2.45	0.50
1:K:312:LEU:HD11	1:K:327:ASP:H	1.76	0.50
1:K:367:VAL:HG23	1:K:367:VAL:O	2.12	0.50
1:K:759:ILE:HG13	1:K:759:ILE:O	2.12	0.50
1:L:38:TYR:N	1:L:38:TYR:CD1	2.80	0.50
1:L:67:ARG:NH1	1:L:576:ASN:ND2	2.59	0.50
1:L:135:PHE:CD1	1:L:145:GLN:HB3	2.47	0.50
1:L:762:CYS:SG	1:L:821:ARG:NH1	2.85	0.50
2:M:277:ASP:CG	2:M:285:LYS:HE2	2.32	0.50
3:O:6:ARG:O	3:O:6:ARG:CG	2.59	0.50
3:Q:101:LEU:O	3:Q:102:ASN:C	2.49	0.50
3:Q:104:LEU:O	3:Q:105:ARG:C	2.49	0.50
1:A:888:HIS:ND1	1:A:890:PRO:HD3	2.27	0.50
1:B:205:ARG:NE	1:B:256:GLU:OE2	2.45	0.50
1:B:495:ASN:HB3	1:B:498:ASN:HD22	1.76	0.50
1:B:903:PRO:HB2	1:B:904:PHE:HD1	1.77	0.50
1:C:73:ARG:HB3	1:C:82:THR:HG22	1.94	0.50
1:C:755:LEU:HD23	1:C:755:LEU:C	2.32	0.50
1:D:166:GLY:C	1:D:174:VAL:HG12	2.32	0.50
1:D:888:HIS:ND1	1:D:890:PRO:HD3	2.27	0.50
1:E:253:PHE:CZ	1:F:414:ILE:HD13	2.46	0.50
1:F:762:CYS:SG	1:F:821:ARG:NH1	2.85	0.50
1:G:38:TYR:CD1	1:G:38:TYR:N	2.80	0.50
1:G:135:PHE:CE1	1:G:145:GLN:HB3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:367:VAL:HG23	1:G:367:VAL:O	2.11	0.50
1:G:528:PHE:CE2	1:G:530:ALA:HB3	2.46	0.50
1:G:744:PRO:HG2	1:G:749:ASP:OD1	2.12	0.50
1:H:804:LEU:HD23	1:H:804:LEU:C	2.32	0.50
1:I:398:ARG:HB3	1:I:403:TRP:CE2	2.46	0.50
1:J:378:PRO:C	1:J:379:ASN:HD22	2.16	0.50
1:J:714:TYR:O	1:J:723:LYS:N	2.45	0.50
1:K:38:TYR:CD1	1:K:38:TYR:N	2.80	0.50
1:K:406:VAL:HG22	1:K:408:ASN:HB2	1.94	0.50
1:K:472:VAL:HG13	1:K:475:LEU:CD1	2.42	0.50
1:K:903:PRO:HB2	1:K:904:PHE:HD1	1.77	0.50
1:L:450:THR:HG23	1:L:469:ARG:NH1	2.26	0.50
3:N:18:LYS:CG	3:N:19:TRP:N	2.75	0.50
3:O:97:LEU:O	3:O:98:LEU:C	2.48	0.50
3:P:34:GLY:CA	3:P:64:ARG:HH11	2.25	0.50
3:Q:35:VAL:N	3:Q:64:ARG:CD	2.66	0.50
3:Q:77:GLU:N	3:Q:80:LEU:CD1	2.74	0.50
1:A:759:ILE:O	1:A:759:ILE:HG13	2.11	0.49
1:B:103:ILE:HG23	1:B:572:ILE:CD1	2.41	0.49
1:B:241:TYR:HA	1:C:395:GLU:HA	1.94	0.49
1:C:103:ILE:HG23	1:C:572:ILE:CD1	2.42	0.49
1:C:358:MET:SD	1:C:827:ARG:NH2	2.85	0.49
1:D:378:PRO:C	1:D:379:ASN:HD22	2.16	0.49
1:D:714:TYR:O	1:D:723:LYS:N	2.46	0.49
1:D:789:PHE:HD1	1:D:791:PHE:N	2.09	0.49
1:E:166:GLY:C	1:E:174:VAL:HG12	2.32	0.49
1:E:241:TYR:HA	1:F:395:GLU:HA	1.94	0.49
1:E:451:PRO:CB	1:E:454:ILE:HD12	2.41	0.49
1:E:536:LEU:HA	1:E:889:GLN:HE22	1.77	0.49
1:F:135:PHE:CD1	1:F:145:GLN:HB3	2.47	0.49
1:F:282:LEU:HD12	1:F:282:LEU:N	2.27	0.49
1:F:799:HIS:CD2	1:F:800:PRO:HD2	2.43	0.49
1:G:126:PRO:C	1:G:128:SER:H	2.15	0.49
1:H:170:ARG:HH11	1:H:170:ARG:HG3	1.75	0.49
1:I:811:ASP:CG	1:I:812:PRO:HD2	2.32	0.49
1:J:135:PHE:CE1	1:J:145:GLN:HB3	2.47	0.49
1:J:528:PHE:CE2	1:J:530:ALA:HB3	2.46	0.49
1:K:258:ALA:HB3	1:K:260:VAL:HG13	1.94	0.49
1:K:551:VAL:HG11	1:K:568:ALA:O	2.12	0.49
1:K:702:GLU:OE1	3:O:19:TRP:CD1	2.65	0.49
1:L:684:GLN:NE2	1:L:687:SER:HA	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:76:LEU:HD13	2:M:86:LEU:HD13	1.93	0.49
3:N:6:ARG:O	3:N:6:ARG:CG	2.59	0.49
3:N:105:ARG:O	3:N:106:THR:C	2.49	0.49
3:O:100:THR:O	3:O:101:LEU:C	2.50	0.49
3:P:48:THR:HG22	3:P:49:VAL:N	2.26	0.49
3:Q:25:ASP:N	3:Q:38:PRO:HB2	2.26	0.49
3:Q:29:SER:OG	3:Q:64:ARG:NH1	2.44	0.49
3:Q:102:ASN:O	3:Q:103:ARG:C	2.49	0.49
1:A:38:TYR:CD1	1:A:38:TYR:N	2.80	0.49
1:A:879:PHE:O	1:A:881:VAL:HG13	2.12	0.49
1:B:759:ILE:O	1:B:759:ILE:HG13	2.12	0.49
1:B:811:ASP:CG	1:B:812:PRO:HD2	2.33	0.49
1:C:355:ASN:ND2	1:C:508:ARG:HG2	2.27	0.49
1:C:410:ASP:O	1:C:411:ASN:HB2	2.11	0.49
1:C:436:TYR:O	1:C:440:ALA:HB3	2.13	0.49
1:D:35:THR:C	1:D:37:SER:H	2.16	0.49
1:D:903:PRO:HB2	1:D:904:PHE:HD1	1.77	0.49
1:E:240:TYR:HD2	1:E:249:PRO:HB3	1.77	0.49
1:E:423:GLU:OE2	1:F:126:PRO:HA	2.12	0.49
1:E:495:ASN:HB3	1:E:498:ASN:HD22	1.76	0.49
1:F:398:ARG:HB3	1:F:403:TRP:CE2	2.46	0.49
1:G:724:ASP:O	1:G:728:VAL:HG23	2.11	0.49
1:H:107:LEU:CD1	1:H:570:VAL:HG12	2.42	0.49
1:H:191:TRP:CE3	1:H:192:THR:HB	2.48	0.49
1:H:231:LYS:HG3	1:H:258:ALA:CA	2.42	0.49
1:H:759:ILE:HG13	1:H:759:ILE:O	2.12	0.49
1:J:744:PRO:HG2	1:J:749:ASP:OD1	2.12	0.49
1:K:142:HIS:HB3	1:L:409:SER:OG	2.12	0.49
1:K:495:ASN:HB3	1:K:498:ASN:HD22	1.76	0.49
1:K:536:LEU:HA	1:K:889:GLN:HE22	1.77	0.49
1:K:630:ARG:CB	1:K:859:ALA:HA	2.42	0.49
1:L:358:MET:SD	1:L:827:ARG:NH2	2.86	0.49
1:L:811:ASP:CG	1:L:812:PRO:HD2	2.31	0.49
1:L:852:LEU:CD2	4:R:214:GLY:O	2.60	0.49
1:L:852:LEU:CB	4:R:213:SER:CB	2.71	0.49
2:M:355:MET:HG3	2:M:442:LEU:HD11	1.93	0.49
3:N:15:ARG:O	3:N:16:LEU:HB2	2.11	0.49
3:N:55:ARG:C	3:N:56:ASP:OD1	2.50	0.49
3:O:15:ARG:O	3:O:16:LEU:HB2	2.11	0.49
3:O:90:LEU:CD1	3:P:90:LEU:HD11	2.41	0.49
3:O:109:ALA:O	3:O:110:ALA:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:55:ARG:O	3:Q:56:ASP:CB	2.59	0.49
3:Q:105:ARG:O	3:Q:106:THR:C	2.49	0.49
1:A:76:THR:HG22	1:A:77:GLN:N	2.27	0.49
1:A:114:LYS:HE2	1:A:264:ASP:HB2	1.93	0.49
1:A:327:ASP:OD1	1:A:328:LEU:N	2.45	0.49
1:A:804:LEU:HD23	1:A:804:LEU:C	2.33	0.49
1:B:166:GLY:C	1:B:174:VAL:HG12	2.32	0.49
1:B:167:VAL:O	1:B:168:ASP:C	2.51	0.49
1:B:191:TRP:CE3	1:B:192:THR:HB	2.48	0.49
1:B:423:GLU:OE2	1:C:126:PRO:HA	2.12	0.49
1:B:630:ARG:CB	1:B:859:ALA:HA	2.42	0.49
1:C:783:THR:HA	1:C:803:GLN:CB	2.42	0.49
1:D:126:PRO:C	1:D:128:SER:H	2.15	0.49
1:D:242:ARG:HH11	1:E:396:VAL:HG21	1.77	0.49
1:D:395:GLU:HA	1:F:241:TYR:HA	1.95	0.49
1:D:796:ARG:O	1:D:796:ARG:HD3	2.12	0.49
1:D:804:LEU:HD23	1:D:804:LEU:C	2.33	0.49
1:E:137:GLN:O	1:E:139:ASN:N	2.44	0.49
1:E:231:LYS:HG3	1:E:258:ALA:CA	2.42	0.49
1:E:630:ARG:CB	1:E:859:ALA:HA	2.42	0.49
1:E:903:PRO:HB2	1:E:904:PHE:HD1	1.77	0.49
1:F:355:ASN:ND2	1:F:508:ARG:HG2	2.27	0.49
1:F:770:THR:HG21	1:F:816:LEU:HB2	1.94	0.49
1:G:7:LEU:N	1:G:7:LEU:HD12	2.27	0.49
1:G:35:THR:C	1:G:37:SER:H	2.16	0.49
1:G:242:ARG:HH11	1:H:396:VAL:HG21	1.77	0.49
1:H:367:VAL:HG23	1:H:367:VAL:O	2.11	0.49
1:H:761:MET:HE3	1:H:824:LEU:HD13	1.94	0.49
1:H:811:ASP:CG	1:H:812:PRO:HD2	2.33	0.49
1:H:868:PRO:HG3	3:Q:40:ASN:CB	2.40	0.49
1:I:38:TYR:CD1	1:I:38:TYR:N	2.80	0.49
1:I:293:PHE:O	1:I:557:SER:HA	2.11	0.49
1:J:495:ASN:HB3	1:J:498:ASN:HD22	1.78	0.49
1:J:678:PHE:HB3	1:J:705:ILE:HD12	1.94	0.49
1:K:10:TRP:HB3	1:K:15:ILE:HB	1.94	0.49
1:K:146:THR:N	1:L:412:ASN:HD22	2.10	0.49
1:K:528:PHE:CE2	1:K:530:ALA:HB3	2.47	0.49
1:L:103:ILE:HG23	1:L:572:ILE:CD1	2.42	0.49
1:L:402:GLN:O	1:L:403:TRP:CE3	2.64	0.49
3:P:15:ARG:O	3:P:16:LEU:HB2	2.11	0.49
3:P:16:LEU:CD2	3:P:17:PRO:HD2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:PHE:CE1	1:A:145:GLN:HB3	2.47	0.49
1:A:355:ASN:ND2	1:A:508:ARG:HG2	2.27	0.49
1:A:473:SER:HB2	1:A:792:CYS:CB	2.32	0.49
1:B:536:LEU:HA	1:B:889:GLN:HE22	1.77	0.49
1:B:789:PHE:HD1	1:B:791:PHE:N	2.09	0.49
1:C:126:PRO:C	1:C:128:SER:H	2.15	0.49
1:C:205:ARG:NE	1:C:256:GLU:OE2	2.45	0.49
1:C:298:ASP:O	1:C:301:VAL:HG13	2.11	0.49
1:C:850:ASN:ND2	1:C:852:LEU:HB3	2.27	0.49
1:D:189:GLU:OE2	1:F:271:VAL:HG22	2.13	0.49
1:D:451:PRO:CB	1:D:454:ILE:HD12	2.42	0.49
1:E:7:LEU:HD12	1:E:7:LEU:N	2.28	0.49
1:E:73:ARG:HB3	1:E:82:THR:HG22	1.94	0.49
1:E:258:ALA:HB3	1:E:260:VAL:HG13	1.94	0.49
1:E:653:SER:HA	1:G:78:TYR:CE2	2.48	0.49
1:E:744:PRO:HG2	1:E:749:ASP:OD1	2.12	0.49
1:E:811:ASP:CG	1:E:812:PRO:HD2	2.33	0.49
1:E:900:LEU:CD2	1:F:9:GLN:HE21	2.23	0.49
1:F:246:ASN:HD21	1:F:248:ASN:HB3	1.77	0.49
1:G:115:PRO:O	1:G:116:TYR:HB3	2.11	0.49
1:G:258:ALA:HB3	1:G:260:VAL:HG13	1.93	0.49
1:G:456:LEU:HG	1:G:457:PRO:HD2	1.95	0.49
1:G:714:TYR:O	1:G:723:LYS:N	2.45	0.49
1:G:796:ARG:O	1:G:796:ARG:HD3	2.12	0.49
1:I:167:VAL:O	1:I:168:ASP:C	2.51	0.49
1:I:282:LEU:HD12	1:I:282:LEU:N	2.27	0.49
1:I:355:ASN:ND2	1:I:508:ARG:HG2	2.27	0.49
1:I:684:GLN:NE2	1:I:687:SER:HA	2.27	0.49
1:K:167:VAL:O	1:K:168:ASP:C	2.50	0.49
1:K:241:TYR:HA	1:L:395:GLU:HA	1.94	0.49
1:K:327:ASP:OD1	1:K:328:LEU:N	2.46	0.49
1:K:762:CYS:SG	1:K:821:ARG:NH1	2.86	0.49
1:L:107:LEU:CD1	1:L:570:VAL:HG12	2.42	0.49
1:L:166:GLY:C	1:L:174:VAL:HG12	2.33	0.49
1:L:205:ARG:NE	1:L:256:GLU:OE2	2.45	0.49
1:L:246:ASN:HD21	1:L:248:ASN:HB3	1.77	0.49
2:M:308:ARG:O	2:M:308:ARG:HG2	2.12	0.49
3:O:15:ARG:NH1	3:O:15:ARG:HG2	2.21	0.49
3:P:18:LYS:CG	3:P:19:TRP:N	2.75	0.49
3:Q:25:ASP:CA	3:Q:38:PRO:HB2	2.39	0.49
3:Q:75:LEU:CG	3:Q:77:GLU:OE2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:99:ALA:O	3:Q:100:THR:C	2.50	0.49
1:A:137:GLN:O	1:A:139:ASN:N	2.46	0.49
1:A:231:LYS:HG3	1:A:258:ALA:CA	2.41	0.49
1:B:402:GLN:O	1:B:403:TRP:CB	2.57	0.49
1:B:804:LEU:HD11	1:C:222:PRO:CB	2.33	0.49
1:C:903:PRO:HB2	1:C:904:PHE:HD1	1.76	0.49
1:D:135:PHE:CE1	1:D:145:GLN:HB3	2.47	0.49
1:D:167:VAL:O	1:D:168:ASP:C	2.51	0.49
1:D:327:ASP:OD1	1:D:328:LEU:N	2.45	0.49
1:D:495:ASN:HB3	1:D:498:ASN:HD22	1.78	0.49
1:D:879:PHE:O	1:D:881:VAL:HG13	2.12	0.49
1:E:767:ASN:H	1:E:817:ARG:HA	1.78	0.49
1:E:783:THR:HA	1:E:803:GLN:CB	2.42	0.49
1:F:285:HIS:ND1	1:F:795:PRO:HD3	2.28	0.49
1:F:542:THR:O	1:F:542:THR:HG23	2.13	0.49
1:G:166:GLY:C	1:G:174:VAL:HG12	2.32	0.49
1:G:423:GLU:OE2	1:H:126:PRO:HA	2.13	0.49
1:H:7:LEU:HD12	1:H:7:LEU:N	2.28	0.49
1:H:551:VAL:HG11	1:H:568:ALA:O	2.13	0.49
1:H:903:PRO:HB2	1:H:904:PHE:HD1	1.77	0.49
1:I:205:ARG:NE	1:I:256:GLU:OE2	2.45	0.49
1:J:35:THR:C	1:J:37:SER:H	2.15	0.49
1:K:285:HIS:ND1	1:K:795:PRO:HD3	2.28	0.49
1:K:790:ARG:CZ	1:L:186:LEU:HD23	2.43	0.49
1:L:169:GLU:O	1:L:169:GLU:HG3	2.13	0.49
1:L:761:MET:CE	1:L:824:LEU:HD13	2.43	0.49
3:N:58:LEU:N	3:N:58:LEU:CD1	2.65	0.49
3:N:75:LEU:CG	3:N:77:GLU:OE2	2.60	0.49
3:O:34:GLY:CA	3:O:64:ARG:HH11	2.25	0.49
3:O:55:ARG:C	3:O:56:ASP:OD1	2.50	0.49
3:P:75:LEU:CG	3:P:77:GLU:OE2	2.60	0.49
3:P:107:GLY:O	3:P:108:LEU:C	2.51	0.49
1:A:107:LEU:CD1	1:A:570:VAL:HG12	2.42	0.49
1:A:271:VAL:CB	1:A:272:PRO:HD3	2.34	0.49
1:B:762:CYS:SG	1:B:821:ARG:NH1	2.86	0.49
1:B:783:THR:HA	1:B:803:GLN:CB	2.43	0.49
1:C:115:PRO:O	1:C:116:TYR:HB3	2.13	0.49
1:C:388:GLN:HG2	1:C:420:PRO:CG	2.42	0.49
1:D:271:VAL:HG22	1:E:189:GLU:OE2	2.13	0.49
1:D:408:ASN:ND2	1:F:143:PRO:HB2	2.28	0.49
1:D:472:VAL:HG13	1:D:475:LEU:CD1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:303:LEU:HG	1:E:554:ILE:HG23	1.94	0.49
1:E:378:PRO:C	1:E:379:ASN:HD22	2.16	0.49
1:F:166:GLY:C	1:F:174:VAL:HG12	2.33	0.49
1:F:170:ARG:HH11	1:F:170:ARG:HG3	1.77	0.49
1:F:327:ASP:OD1	1:F:328:LEU:N	2.46	0.49
1:G:402:GLN:O	1:G:403:TRP:CB	2.56	0.49
1:G:774:PHE:CE2	1:H:223:THR:HA	2.47	0.49
1:G:804:LEU:HD23	1:G:804:LEU:C	2.33	0.49
1:H:378:PRO:C	1:H:379:ASN:HD22	2.16	0.49
1:H:630:ARG:CB	1:H:859:ALA:HA	2.42	0.49
1:I:76:THR:HG22	1:I:77:GLN:N	2.28	0.49
1:I:246:ASN:HD21	1:I:248:ASN:HB3	1.77	0.49
1:I:358:MET:SD	1:I:827:ARG:NH2	2.85	0.49
1:I:727:LEU:HD13	1:I:741:TYR:OH	2.13	0.49
1:I:761:MET:CE	1:I:824:LEU:HD13	2.43	0.49
1:I:850:ASN:ND2	1:I:852:LEU:HB3	2.28	0.49
1:J:67:ARG:NH1	1:J:576:ASN:ND2	2.61	0.49
1:J:327:ASP:OD1	1:J:328:LEU:N	2.46	0.49
1:K:126:PRO:C	1:K:128:SER:H	2.16	0.49
1:K:165:MET:HG2	1:K:165:MET:O	2.11	0.49
1:K:744:PRO:HG2	1:K:749:ASP:OD1	2.13	0.49
1:L:388:GLN:HG2	1:L:420:PRO:CG	2.42	0.49
1:L:770:THR:HG21	1:L:816:LEU:HB2	1.94	0.49
2:M:355:MET:HG2	2:M:442:LEU:CD1	2.42	0.49
3:P:65:ARG:NH1	3:P:65:ARG:C	2.65	0.49
3:Q:55:ARG:C	3:Q:56:ASP:OD1	2.50	0.49
3:Q:98:LEU:O	3:Q:99:ALA:C	2.49	0.49
4:R:190:TYR:O	4:R:192:GLY:N	2.46	0.49
1:A:378:PRO:C	1:A:379:ASN:HD22	2.16	0.49
1:A:395:GLU:HA	1:C:241:TYR:HA	1.94	0.49
1:A:408:ASN:ND2	1:C:143:PRO:HB2	2.28	0.49
1:A:796:ARG:O	1:A:796:ARG:HD3	2.12	0.49
1:B:528:PHE:CE2	1:B:530:ALA:HB3	2.47	0.49
1:B:689:VAL:HG22	1:D:906:ALA:N	2.27	0.49
1:C:166:GLY:C	1:C:174:VAL:HG12	2.33	0.49
1:C:169:GLU:O	1:C:169:GLU:HG3	2.13	0.49
1:C:759:ILE:HG13	1:C:759:ILE:O	2.12	0.49
1:D:231:LYS:HG3	1:D:258:ALA:CA	2.41	0.49
1:D:578:TYR:CZ	1:F:723:LYS:HE3	2.48	0.49
1:E:528:PHE:CE2	1:E:530:ALA:HB3	2.47	0.49
1:F:73:ARG:HB3	1:F:82:THR:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:115:PRO:O	1:F:116:TYR:HB3	2.13	0.49
1:F:358:MET:SD	1:F:827:ARG:NH2	2.85	0.49
1:F:436:TYR:O	1:F:440:ALA:HB3	2.13	0.49
1:G:67:ARG:NH1	1:G:576:ASN:ND2	2.61	0.49
1:G:253:PHE:CZ	1:H:414:ILE:HD13	2.48	0.49
1:G:271:VAL:HG22	1:H:189:GLU:OE2	2.13	0.49
1:G:396:VAL:HG21	1:I:242:ARG:NH1	2.28	0.49
1:G:451:PRO:CB	1:G:454:ILE:HD12	2.42	0.49
1:H:73:ARG:HB3	1:H:82:THR:HG22	1.95	0.49
1:H:242:ARG:HH11	1:I:396:VAL:HG23	1.78	0.49
1:H:762:CYS:SG	1:H:821:ARG:NH1	2.86	0.49
1:H:770:THR:HG21	1:H:816:LEU:HB2	1.95	0.49
1:I:166:GLY:C	1:I:174:VAL:HG12	2.33	0.49
1:I:169:GLU:O	1:I:169:GLU:HG3	2.13	0.49
1:I:762:CYS:SG	1:I:821:ARG:NH1	2.85	0.49
1:I:783:THR:HA	1:I:803:GLN:CB	2.42	0.49
1:J:271:VAL:HG22	1:K:189:GLU:OE2	2.13	0.49
1:J:408:ASN:ND2	1:L:143:PRO:HB2	2.28	0.49
1:J:472:VAL:HG13	1:J:475:LEU:CD1	2.43	0.49
1:J:484:THR:HG23	1:K:514:ASN:CB	2.38	0.49
1:J:694:ASN:HB3	1:J:696:ARG:HH12	1.77	0.49
1:J:888:HIS:ND1	1:J:890:PRO:HD3	2.27	0.49
1:J:903:PRO:HB2	1:J:904:PHE:HD1	1.77	0.49
1:K:231:LYS:HG3	1:K:258:ALA:CA	2.42	0.49
1:K:783:THR:HA	1:K:803:GLN:CB	2.43	0.49
1:L:312:LEU:HD21	1:L:325:VAL:O	2.13	0.49
1:L:396:VAL:CG2	1:L:405:ASN:HA	2.40	0.49
1:L:789:PHE:HD1	1:L:791:PHE:N	2.09	0.49
3:N:17:PRO:CG	3:N:22:SER:OG	2.42	0.49
3:N:107:GLY:O	3:N:108:LEU:C	2.51	0.49
3:O:75:LEU:CG	3:O:77:GLU:OE2	2.60	0.49
3:P:98:LEU:O	3:P:99:ALA:C	2.49	0.49
3:Q:109:ALA:O	3:Q:110:ALA:C	2.50	0.49
1:A:253:PHE:CZ	1:B:414:ILE:HD13	2.48	0.49
1:A:451:PRO:CB	1:A:454:ILE:HD12	2.42	0.49
1:A:495:ASN:HB3	1:A:498:ASN:HD22	1.78	0.49
1:A:714:TYR:O	1:A:723:LYS:N	2.45	0.49
1:B:327:ASP:OD1	1:B:328:LEU:N	2.46	0.49
1:B:551:VAL:HG11	1:B:568:ALA:O	2.12	0.49
1:B:630:ARG:HH12	1:J:83:ARG:HH21	1.60	0.49
1:C:76:THR:HG22	1:C:77:GLN:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:456:LEU:HG	1:C:457:PRO:HD2	1.95	0.49
1:D:67:ARG:NH1	1:D:576:ASN:ND2	2.61	0.49
1:E:142:HIS:HB3	1:F:409:SER:OG	2.12	0.49
1:F:67:ARG:NH1	1:F:576:ASN:ND2	2.59	0.49
1:G:282:LEU:HD12	1:G:282:LEU:N	2.27	0.49
1:G:627:ILE:O	1:G:627:ILE:HG13	2.13	0.49
1:H:142:HIS:HB3	1:I:409:SER:OG	2.12	0.49
1:H:396:VAL:CG1	1:H:403:TRP:HD1	2.23	0.49
1:H:694:ASN:HB3	1:H:696:ARG:HH12	1.78	0.49
1:I:126:PRO:C	1:I:128:SER:H	2.15	0.49
1:I:135:PHE:CD1	1:I:145:GLN:HB3	2.47	0.49
1:I:436:TYR:O	1:I:440:ALA:HB3	2.13	0.49
1:J:253:PHE:CZ	1:K:414:ILE:HD13	2.48	0.49
1:J:355:ASN:ND2	1:J:508:ARG:HG2	2.27	0.49
1:J:451:PRO:CB	1:J:454:ILE:HD12	2.42	0.49
1:J:796:ARG:O	1:J:796:ARG:HD3	2.12	0.49
1:K:7:LEU:HD12	1:K:7:LEU:N	2.28	0.49
1:K:303:LEU:HG	1:K:554:ILE:HG23	1.94	0.49
1:K:451:PRO:CB	1:K:454:ILE:HD12	2.42	0.49
1:K:473:SER:HB2	1:K:792:CYS:CB	2.30	0.49
1:K:789:PHE:HD1	1:K:791:PHE:N	2.09	0.49
1:L:73:ARG:HB3	1:L:82:THR:HG22	1.94	0.49
1:L:759:ILE:O	1:L:759:ILE:HG13	2.12	0.49
1:L:799:HIS:HD2	1:L:800:PRO:CD	2.24	0.49
2:M:122:TYR:CD1	2:M:432:PRO:HB3	2.47	0.49
2:M:208:TYR:CE1	2:M:213:GLN:HA	2.48	0.49
2:M:277:ASP:HB3	2:M:285:LYS:CE	2.37	0.49
3:N:77:GLU:CA	3:N:80:LEU:HD12	2.43	0.49
3:N:102:ASN:O	3:N:103:ARG:C	2.49	0.49
3:O:107:GLY:O	3:O:108:LEU:C	2.51	0.49
1:A:189:GLU:OE2	1:C:271:VAL:HG22	2.13	0.49
1:A:358:MET:SD	1:A:827:ARG:NH2	2.86	0.49
1:A:436:TYR:HA	1:A:440:ALA:HB3	1.95	0.49
1:B:311:ASN:HD21	1:B:654:PRO:HB3	1.78	0.49
1:D:76:THR:HG22	1:D:77:GLN:N	2.27	0.49
1:D:759:ILE:O	1:D:759:ILE:HG13	2.12	0.49
1:D:774:PHE:CE2	1:E:223:THR:HA	2.47	0.49
1:E:205:ARG:NE	1:E:256:GLU:OE2	2.45	0.49
1:E:762:CYS:SG	1:E:821:ARG:NH1	2.86	0.49
1:F:903:PRO:HB2	1:F:904:PHE:HD1	1.76	0.49
1:G:137:GLN:O	1:G:139:ASN:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:378:PRO:C	1:G:379:ASN:HD22	2.16	0.49
1:G:495:ASN:HB3	1:G:498:ASN:HD22	1.78	0.49
1:J:126:PRO:C	1:J:128:SER:H	2.15	0.49
1:J:137:GLN:O	1:J:139:ASN:N	2.46	0.49
1:J:410:ASP:O	1:J:411:ASN:HB2	2.13	0.49
1:K:191:TRP:CE3	1:K:192:THR:HB	2.48	0.49
1:L:354:TRP:HA	1:L:354:TRP:CE3	2.48	0.49
1:L:850:ASN:ND2	1:L:852:LEU:HB3	2.28	0.49
3:N:11:TYR:HB3	3:P:11:TYR:CG	2.47	0.49
3:P:77:GLU:CD	3:P:77:GLU:H	2.02	0.49
1:A:205:ARG:NE	1:A:256:GLU:OE2	2.45	0.49
1:A:282:LEU:HD12	1:A:282:LEU:N	2.27	0.49
1:A:578:TYR:CZ	1:C:723:LYS:HE3	2.48	0.49
1:A:678:PHE:HB3	1:A:705:ILE:HD12	1.95	0.49
1:B:154:ALA:O	1:B:155:THR:HB	2.13	0.49
1:B:231:LYS:HG3	1:B:258:ALA:CA	2.42	0.49
1:B:258:ALA:HB3	1:B:260:VAL:HG13	1.95	0.49
1:B:472:VAL:HG13	1:B:475:LEU:CD1	2.42	0.49
1:B:714:TYR:O	1:B:723:LYS:N	2.46	0.49
1:B:767:ASN:H	1:B:817:ARG:HA	1.78	0.49
1:B:790:ARG:CZ	1:C:186:LEU:HD23	2.43	0.49
1:C:135:PHE:CD1	1:C:145:GLN:HB3	2.47	0.49
1:C:170:ARG:HH11	1:C:170:ARG:HG3	1.77	0.49
1:C:762:CYS:SG	1:C:821:ARG:NH1	2.85	0.49
1:D:38:TYR:CD1	1:D:38:TYR:N	2.80	0.49
1:D:470:ILE:HG23	1:D:793:ARG:HD3	1.94	0.49
1:E:146:THR:N	1:F:412:ASN:HD22	2.10	0.49
1:E:714:TYR:O	1:E:723:LYS:N	2.46	0.49
1:F:850:ASN:ND2	1:F:852:LEU:HB3	2.28	0.49
1:G:327:ASP:OD1	1:G:328:LEU:N	2.46	0.49
1:G:395:GLU:HA	1:I:241:TYR:HA	1.94	0.49
1:G:472:VAL:HG13	1:G:475:LEU:CD1	2.43	0.49
1:H:146:THR:N	1:I:412:ASN:HD22	2.10	0.49
1:H:528:PHE:CE2	1:H:530:ALA:HB3	2.47	0.49
1:H:783:THR:HA	1:H:803:GLN:CB	2.43	0.49
1:I:115:PRO:O	1:I:116:TYR:HB3	2.13	0.49
1:I:133:THR:CG2	1:I:212:GLN:HG3	2.43	0.49
1:I:327:ASP:OD1	1:I:328:LEU:N	2.46	0.49
1:I:354:TRP:HA	1:I:354:TRP:HE3	1.78	0.49
1:J:38:TYR:CD1	1:J:38:TYR:N	2.80	0.49
1:J:401:GLN:HB2	1:J:402:GLN:H	1.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:714:TYR:O	1:J:723:LYS:HG3	2.13	0.49
1:K:311:ASN:HD21	1:K:654:PRO:HB3	1.78	0.49
1:K:714:TYR:O	1:K:723:LYS:N	2.46	0.49
1:K:767:ASN:H	1:K:817:ARG:HA	1.78	0.49
1:L:766:PRO:HD3	1:L:809:HIS:NE2	2.18	0.49
2:M:73:ILE:O	2:M:73:ILE:HG13	2.13	0.49
2:M:141:MET:SD	2:M:177:ILE:HD12	2.53	0.49
3:N:39:PRO:O	3:N:40:ASN:CB	2.61	0.49
3:O:39:PRO:O	3:O:40:ASN:CB	2.61	0.49
3:O:76:VAL:CG2	3:O:77:GLU:OE2	2.55	0.49
3:O:77:GLU:CA	3:O:80:LEU:HD12	2.43	0.49
3:Q:107:GLY:O	3:Q:108:LEU:C	2.51	0.49
1:A:67:ARG:NH1	1:A:576:ASN:ND2	2.61	0.48
1:A:627:ILE:HG13	1:A:627:ILE:O	2.13	0.48
1:B:142:HIS:HB3	1:C:409:SER:OG	2.13	0.48
1:C:312:LEU:HD21	1:C:325:VAL:O	2.13	0.48
1:C:327:ASP:OD1	1:C:328:LEU:N	2.46	0.48
1:C:761:MET:CE	1:C:824:LEU:HD13	2.43	0.48
1:D:132:ASN:HB3	1:D:206:VAL:CG2	2.34	0.48
1:D:253:PHE:CZ	1:E:414:ILE:HD13	2.48	0.48
1:D:283:SER:OG	1:E:190:GLY:HA2	2.13	0.48
1:D:396:VAL:HG21	1:F:242:ARG:NH1	2.28	0.48
1:E:60:ARG:HA	1:J:61:SER:H	1.78	0.48
1:E:167:VAL:O	1:E:168:ASP:C	2.51	0.48
1:E:311:ASN:HD21	1:E:654:PRO:HB3	1.78	0.48
1:E:456:LEU:HG	1:E:457:PRO:HD2	1.95	0.48
1:F:694:ASN:HB3	1:F:696:ARG:HH12	1.78	0.48
1:F:879:PHE:O	1:F:881:VAL:HG13	2.13	0.48
1:G:143:PRO:HB2	1:H:408:ASN:ND2	2.28	0.48
1:G:375:ASP:O	1:H:127:LYS:HE2	2.13	0.48
1:G:408:ASN:ND2	1:I:143:PRO:HB2	2.28	0.48
1:G:863:THR:CA	1:L:909:ALA:HB3	2.43	0.48
1:H:482:ILE:HD12	1:I:116:TYR:CE2	2.48	0.48
1:H:714:TYR:O	1:H:723:LYS:N	2.46	0.48
1:H:723:LYS:HE3	1:I:578:TYR:CZ	2.48	0.48
1:I:73:ARG:HB3	1:I:82:THR:HG22	1.94	0.48
1:I:107:LEU:CD1	1:I:570:VAL:HG12	2.42	0.48
1:I:312:LEU:HD21	1:I:325:VAL:O	2.13	0.48
1:I:402:GLN:O	1:I:403:TRP:CE3	2.64	0.48
1:I:759:ILE:HG13	1:I:759:ILE:O	2.12	0.48
1:J:282:LEU:HD12	1:J:282:LEU:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:542:THR:HG23	1:J:542:THR:O	2.13	0.48
1:J:578:TYR:CZ	1:L:723:LYS:HE3	2.48	0.48
1:K:378:PRO:C	1:K:379:ASN:HD22	2.16	0.48
1:K:482:ILE:HD12	1:L:116:TYR:CE2	2.48	0.48
3:O:99:ALA:O	3:O:100:THR:C	2.50	0.48
3:Q:30:ASN:N	3:Q:34:GLY:H	2.05	0.48
1:A:135:PHE:CD1	1:A:145:GLN:HB3	2.49	0.48
1:A:423:GLU:OE2	1:B:126:PRO:HA	2.13	0.48
1:A:789:PHE:HD1	1:A:791:PHE:N	2.09	0.48
1:C:354:TRP:CE3	1:C:354:TRP:HA	2.48	0.48
1:C:771:GLU:OE1	1:C:771:GLU:HA	2.13	0.48
1:C:778:ILE:C	1:C:778:ILE:HD12	2.34	0.48
1:C:799:HIS:CD2	1:C:800:PRO:HD2	2.43	0.48
1:D:292:ASN:HA	1:D:558:THR:OG1	2.13	0.48
1:D:375:ASP:O	1:E:127:LYS:HE2	2.13	0.48
1:D:542:THR:HG23	1:D:542:THR:O	2.13	0.48
1:D:744:PRO:HG2	1:D:749:ASP:OD1	2.12	0.48
1:D:778:ILE:C	1:D:778:ILE:HD12	2.34	0.48
1:E:241:TYR:HB3	1:F:393:SER:HG	1.78	0.48
1:E:790:ARG:CZ	1:F:186:LEU:HD23	2.43	0.48
1:F:307:ASN:HD21	1:F:333:THR:N	1.95	0.48
1:G:122:ASN:HA	1:I:784:THR:OG1	2.14	0.48
1:G:354:TRP:HA	1:G:354:TRP:CE3	2.49	0.48
1:J:143:PRO:HB2	1:K:408:ASN:ND2	2.28	0.48
1:J:189:GLU:OE2	1:L:271:VAL:HG22	2.13	0.48
1:J:242:ARG:HH11	1:K:396:VAL:HG21	1.77	0.48
1:J:804:LEU:HD23	1:J:804:LEU:C	2.33	0.48
1:K:799:HIS:HD2	1:K:800:PRO:CD	2.23	0.48
1:L:7:LEU:N	1:L:7:LEU:HD12	2.28	0.48
1:L:114:LYS:HE2	1:L:264:ASP:HB2	1.95	0.48
1:L:694:ASN:HB3	1:L:696:ARG:HH12	1.78	0.48
1:L:727:LEU:HD13	1:L:741:TYR:OH	2.13	0.48
1:L:783:THR:HA	1:L:803:GLN:CB	2.42	0.48
2:M:232:LEU:HG	2:M:233:PRO:CD	2.29	0.48
3:N:74:ILE:HD13	3:N:74:ILE:N	2.25	0.48
1:A:31:PHE:CE2	1:C:592:LEU:HD13	2.48	0.48
1:A:155:THR:HG21	1:A:163:LEU:CD1	2.43	0.48
1:A:283:SER:OG	1:B:190:GLY:HA2	2.13	0.48
1:B:378:PRO:C	1:B:379:ASN:HD22	2.16	0.48
1:B:723:LYS:HE3	1:C:578:TYR:CZ	2.48	0.48
1:B:744:PRO:HG2	1:B:749:ASP:OD1	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:ASN:HD21	1:C:248:ASN:HB3	1.77	0.48
1:C:684:GLN:NE2	1:C:687:SER:HA	2.27	0.48
1:D:10:TRP:HB3	1:D:15:ILE:HB	1.96	0.48
1:D:137:GLN:O	1:D:139:ASN:N	2.46	0.48
1:D:143:PRO:HB2	1:E:408:ASN:ND2	2.28	0.48
1:D:303:LEU:HG	1:D:554:ILE:HG23	1.96	0.48
1:E:10:TRP:HB3	1:E:15:ILE:HB	1.94	0.48
1:E:103:ILE:HG23	1:E:572:ILE:CD1	2.41	0.48
1:E:242:ARG:HH11	1:F:396:VAL:HG23	1.78	0.48
1:E:652:GLY:HA3	1:G:78:TYR:OH	2.12	0.48
1:E:694:ASN:HB3	1:E:696:ARG:HH12	1.78	0.48
1:E:909:ALA:HB3	1:G:544:GLU:CD	2.22	0.48
1:F:107:LEU:CD1	1:F:570:VAL:HG12	2.42	0.48
1:F:167:VAL:O	1:F:168:ASP:C	2.51	0.48
1:F:169:GLU:O	1:F:169:GLU:HG3	2.13	0.48
1:G:167:VAL:O	1:G:168:ASP:C	2.51	0.48
1:G:542:THR:HG23	1:G:542:THR:O	2.13	0.48
1:G:778:ILE:C	1:G:778:ILE:HD12	2.34	0.48
1:H:154:ALA:O	1:H:155:THR:HB	2.14	0.48
1:H:285:HIS:ND1	1:H:795:PRO:HD3	2.28	0.48
1:H:354:TRP:HA	1:H:354:TRP:CE3	2.49	0.48
1:I:172:LEU:C	1:I:172:LEU:HD23	2.34	0.48
1:I:542:THR:O	1:I:542:THR:HG23	2.13	0.48
1:I:694:ASN:HB3	1:I:696:ARG:HH12	1.78	0.48
1:K:73:ARG:HB3	1:K:82:THR:HG22	1.94	0.48
1:K:160:ASN:OD1	1:L:398:ARG:NH2	2.46	0.48
1:K:811:ASP:CG	1:K:812:PRO:HD2	2.33	0.48
1:L:76:THR:HG22	1:L:77:GLN:N	2.28	0.48
1:L:355:ASN:ND2	1:L:508:ARG:HG2	2.27	0.48
1:L:627:ILE:HG13	1:L:627:ILE:O	2.14	0.48
3:O:35:VAL:CG1	3:O:67:GLU:OE2	2.58	0.48
3:P:76:VAL:CG2	3:P:77:GLU:OE2	2.55	0.48
1:A:7:LEU:N	1:A:7:LEU:HD12	2.27	0.48
1:A:271:VAL:HG22	1:B:189:GLU:OE2	2.13	0.48
1:A:410:ASP:O	1:A:411:ASN:HB2	2.13	0.48
1:A:744:PRO:HG2	1:A:749:ASP:OD1	2.12	0.48
1:A:778:ILE:C	1:A:778:ILE:HD12	2.34	0.48
1:B:7:LEU:HD12	1:B:7:LEU:N	2.28	0.48
1:B:146:THR:N	1:C:412:ASN:HD22	2.10	0.48
1:C:114:LYS:HE2	1:C:264:ASP:HB2	1.95	0.48
1:D:135:PHE:CD1	1:D:145:GLN:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:355:ASN:ND2	1:D:508:ARG:HG2	2.27	0.48
1:D:694:ASN:HB3	1:E:61:SER:HA	1.95	0.48
1:D:706:LYS:HD2	1:D:720:ASN:ND2	2.29	0.48
1:E:154:ALA:O	1:E:155:THR:HB	2.14	0.48
1:E:327:ASP:OD1	1:E:328:LEU:N	2.46	0.48
1:E:354:TRP:HA	1:E:354:TRP:CE3	2.48	0.48
1:E:406:VAL:HG22	1:E:408:ASN:HB2	1.94	0.48
1:E:727:LEU:HD13	1:E:741:TYR:OH	2.14	0.48
1:F:38:TYR:N	1:F:38:TYR:CD1	2.80	0.48
1:F:759:ILE:HG13	1:F:759:ILE:O	2.12	0.48
1:F:761:MET:CE	1:F:824:LEU:HD13	2.43	0.48
1:G:292:ASN:HA	1:G:558:THR:OG1	2.14	0.48
1:G:857:ALA:HB2	4:R:10:VAL:HG21	1.94	0.48
1:H:241:TYR:HA	1:I:395:GLU:HA	1.94	0.48
1:H:744:PRO:HG2	1:H:749:ASP:OD1	2.12	0.48
1:H:813:ARG:HH21	1:I:263:PRO:CD	2.00	0.48
1:I:7:LEU:N	1:I:7:LEU:HD12	2.28	0.48
1:I:114:LYS:HE2	1:I:264:ASP:HB2	1.95	0.48
1:I:191:TRP:CE3	1:I:192:THR:HB	2.48	0.48
1:I:285:HIS:ND1	1:I:795:PRO:HD3	2.28	0.48
1:I:354:TRP:HA	1:I:354:TRP:CE3	2.48	0.48
1:I:767:ASN:H	1:I:817:ARG:HA	1.78	0.48
1:J:167:VAL:O	1:J:168:ASP:C	2.51	0.48
1:J:358:MET:SD	1:J:827:ARG:NH2	2.86	0.48
1:J:375:ASP:O	1:K:127:LYS:HE2	2.13	0.48
1:J:396:VAL:HG21	1:L:242:ARG:NH1	2.28	0.48
1:J:727:LEU:HD13	1:J:741:TYR:OH	2.14	0.48
1:K:423:GLU:OE2	1:L:126:PRO:HA	2.12	0.48
1:K:542:THR:HG23	1:K:542:THR:O	2.13	0.48
1:K:727:LEU:HD13	1:K:741:TYR:OH	2.14	0.48
1:L:327:ASP:OD1	1:L:328:LEU:N	2.46	0.48
1:L:436:TYR:O	1:L:440:ALA:HB3	2.13	0.48
3:P:73:MET:O	3:P:74:ILE:CD1	2.56	0.48
3:Q:65:ARG:NH1	3:Q:65:ARG:C	2.65	0.48
3:Q:75:LEU:HG	3:Q:77:GLU:OE2	2.13	0.48
1:A:242:ARG:HH11	1:B:396:VAL:HG21	1.77	0.48
1:A:694:ASN:HB3	1:A:696:ARG:HH12	1.77	0.48
1:A:907:GLY:C	2:M:103:HIS:CE1	2.84	0.48
1:B:126:PRO:C	1:B:128:SER:H	2.16	0.48
1:B:285:HIS:ND1	1:B:795:PRO:HD3	2.28	0.48
1:B:778:ILE:C	1:B:778:ILE:HD12	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:727:LEU:HD13	1:C:741:TYR:OH	2.13	0.48
1:D:850:ASN:ND2	1:D:852:LEU:HB3	2.29	0.48
1:E:191:TRP:CE3	1:E:192:THR:HB	2.48	0.48
1:F:684:GLN:NE2	1:F:687:SER:HA	2.27	0.48
1:G:154:ALA:O	1:G:155:THR:HB	2.14	0.48
1:G:155:THR:HG21	1:G:163:LEU:CD1	2.43	0.48
1:G:172:LEU:HD23	1:G:172:LEU:C	2.34	0.48
1:G:208:ARG:HH12	1:G:256:GLU:CA	2.23	0.48
1:H:10:TRP:HB3	1:H:15:ILE:HB	1.94	0.48
1:H:790:ARG:CZ	1:I:186:LEU:HD23	2.43	0.48
1:H:850:ASN:ND2	1:H:852:LEU:HB3	2.29	0.48
1:I:240:TYR:HD2	1:I:249:PRO:HB3	1.78	0.48
1:J:122:ASN:HA	1:L:784:THR:OG1	2.14	0.48
1:J:423:GLU:OE2	1:K:126:PRO:HA	2.13	0.48
1:K:282:LEU:HD12	1:K:282:LEU:N	2.29	0.48
1:L:154:ALA:O	1:L:155:THR:HB	2.14	0.48
1:L:191:TRP:CE3	1:L:192:THR:HB	2.48	0.48
1:A:10:TRP:HB3	1:A:15:ILE:HB	1.95	0.48
1:A:116:TYR:CE2	1:C:482:ILE:HD12	2.49	0.48
1:A:132:ASN:ND2	1:C:799:HIS:CE1	2.80	0.48
1:A:167:VAL:O	1:A:168:ASP:C	2.51	0.48
1:A:222:PRO:CB	1:C:804:LEU:HD11	2.36	0.48
1:A:292:ASN:HA	1:A:558:THR:OG1	2.14	0.48
1:A:303:LEU:HG	1:A:554:ILE:HG23	1.96	0.48
1:C:240:TYR:HD2	1:C:249:PRO:HB3	1.78	0.48
1:C:258:ALA:HB3	1:C:260:VAL:HG13	1.96	0.48
1:C:542:THR:HG23	1:C:542:THR:O	2.13	0.48
1:C:694:ASN:HB3	1:C:696:ARG:HH12	1.78	0.48
1:D:116:TYR:CE2	1:F:482:ILE:HD12	2.49	0.48
1:D:358:MET:SD	1:D:827:ARG:NH2	2.86	0.48
1:D:423:GLU:OE2	1:E:126:PRO:HA	2.13	0.48
1:D:627:ILE:HG13	1:D:627:ILE:O	2.13	0.48
1:D:678:PHE:HB3	1:D:705:ILE:HD12	1.94	0.48
1:D:694:ASN:HB3	1:D:696:ARG:HH12	1.77	0.48
1:E:285:HIS:ND1	1:E:795:PRO:HD3	2.28	0.48
1:E:388:GLN:HG2	1:E:420:PRO:CG	2.44	0.48
1:E:542:THR:HG23	1:E:542:THR:O	2.13	0.48
1:F:172:LEU:HD23	1:F:172:LEU:C	2.34	0.48
1:F:258:ALA:HB3	1:F:260:VAL:HG13	1.96	0.48
1:F:354:TRP:HA	1:F:354:TRP:HE3	1.78	0.48
1:F:402:GLN:O	1:F:403:TRP:CE3	2.64	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:135:PHE:CD1	1:G:145:GLN:HB3	2.49	0.48
1:G:189:GLU:OE2	1:I:271:VAL:HG22	2.13	0.48
1:G:484:THR:HG23	1:H:514:ASN:CB	2.38	0.48
1:H:327:ASP:OD1	1:H:328:LEU:N	2.46	0.48
1:H:406:VAL:HG22	1:H:408:ASN:HB2	1.94	0.48
1:H:542:THR:HG23	1:H:542:THR:O	2.13	0.48
1:I:799:HIS:CD2	1:I:800:PRO:HD2	2.43	0.48
1:J:107:LEU:CD1	1:J:570:VAL:HG12	2.42	0.48
1:J:135:PHE:CD1	1:J:145:GLN:HB3	2.48	0.48
1:J:154:ALA:O	1:J:155:THR:HB	2.14	0.48
1:J:283:SER:OG	1:K:190:GLY:HA2	2.13	0.48
1:J:303:LEU:HG	1:J:554:ILE:HG23	1.96	0.48
1:J:354:TRP:HA	1:J:354:TRP:HE3	1.79	0.48
1:J:439:VAL:CG2	1:J:476:ILE:HG12	2.44	0.48
1:J:706:LYS:HD2	1:J:720:ASN:ND2	2.29	0.48
1:K:67:ARG:HH11	1:K:576:ASN:ND2	2.12	0.48
1:K:169:GLU:O	1:K:169:GLU:HG3	2.14	0.48
1:K:778:ILE:C	1:K:778:ILE:HD12	2.34	0.48
1:L:354:TRP:HA	1:L:354:TRP:HE3	1.78	0.48
1:L:542:THR:HG23	1:L:542:THR:O	2.13	0.48
1:L:879:PHE:O	1:L:881:VAL:HG13	2.13	0.48
2:M:66:ILE:HG22	2:M:469:LEU:HD22	1.95	0.48
2:M:73:ILE:CD1	2:M:76:LEU:HD12	2.41	0.48
2:M:293:ASP:CB	2:M:294:PRO:HD2	2.42	0.48
3:O:101:LEU:O	3:O:102:ASN:C	2.49	0.48
3:Q:73:MET:O	3:Q:74:ILE:CD1	2.56	0.48
3:Q:77:GLU:CA	3:Q:80:LEU:HD12	2.43	0.48
1:A:396:VAL:HG21	1:C:242:ARG:NH1	2.28	0.48
1:A:456:LEU:HG	1:A:457:PRO:HD2	1.94	0.48
1:C:172:LEU:HD23	1:C:172:LEU:C	2.34	0.48
1:D:7:LEU:N	1:D:7:LEU:HD12	2.27	0.48
1:D:160:ASN:HB2	1:E:398:ARG:HE	1.79	0.48
1:D:410:ASP:O	1:D:411:ASN:HB2	2.13	0.48
1:E:169:GLU:O	1:E:169:GLU:HG3	2.14	0.48
1:E:551:VAL:HG11	1:E:568:ALA:O	2.12	0.48
1:F:312:LEU:HD21	1:F:325:VAL:O	2.13	0.48
1:G:107:LEU:CD1	1:G:570:VAL:HG12	2.42	0.48
1:G:160:ASN:HB2	1:H:398:ARG:HE	1.79	0.48
1:G:713:GLY:C	1:G:715:ASN:H	2.17	0.48
1:G:750:ARG:N	1:G:750:ARG:HD2	2.29	0.48
1:H:46:ARG:HH11	1:H:46:ARG:CB	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:126:PRO:C	1:H:128:SER:H	2.16	0.48
1:H:135:PHE:CE1	1:H:145:GLN:HB3	2.49	0.48
1:H:258:ALA:HB3	1:H:260:VAL:HG13	1.94	0.48
1:H:355:ASN:ND2	1:H:508:ARG:HG2	2.29	0.48
1:I:627:ILE:HG13	1:I:627:ILE:O	2.14	0.48
1:J:31:PHE:CE2	1:L:592:LEU:HD13	2.48	0.48
1:J:54:HIS:HB3	4:R:208:TYR:CE2	2.48	0.48
1:J:396:VAL:HG23	1:L:242:ARG:HH11	1.78	0.48
1:J:713:GLY:C	1:J:715:ASN:H	2.17	0.48
1:K:240:TYR:HD2	1:K:249:PRO:HB3	1.77	0.48
1:L:258:ALA:HB3	1:L:260:VAL:HG13	1.96	0.48
1:L:744:PRO:HG2	1:L:749:ASP:OD1	2.14	0.48
1:L:767:ASN:H	1:L:817:ARG:HA	1.78	0.48
2:M:47:ASN:ND2	2:M:476:VAL:HG21	2.29	0.48
3:N:34:GLY:O	3:N:35:VAL:CG2	2.62	0.48
3:N:84:LYS:N	3:P:86:ARG:HH22	2.11	0.48
3:O:75:LEU:HG	3:O:77:GLU:OE2	2.13	0.48
3:O:77:GLU:OE1	3:O:80:LEU:CD1	2.60	0.48
3:P:99:ALA:O	3:P:100:THR:C	2.50	0.48
3:P:108:LEU:O	3:P:109:ALA:C	2.49	0.48
1:A:169:GLU:O	1:A:169:GLU:HG3	2.14	0.48
1:A:430:LEU:HD21	1:C:426:LEU:HD22	1.96	0.48
1:A:439:VAL:CG2	1:A:476:ILE:HG12	2.44	0.48
1:A:472:VAL:HG13	1:A:475:LEU:CD1	2.43	0.48
1:A:794:ALA:CB	1:A:795:PRO:HD2	2.36	0.48
1:B:73:ARG:HB3	1:B:82:THR:HG22	1.94	0.48
1:B:324:ALA:O	1:B:897:VAL:HG11	2.14	0.48
1:B:482:ILE:HD12	1:C:116:TYR:CE2	2.49	0.48
1:C:285:HIS:ND1	1:C:795:PRO:HD3	2.28	0.48
1:C:635:PHE:N	1:C:635:PHE:CD1	2.81	0.48
1:C:664:THR:O	1:C:666:PRO:HD3	2.14	0.48
1:D:31:PHE:CE2	1:F:592:LEU:HD13	2.48	0.48
1:D:396:VAL:HG23	1:F:242:ARG:HH11	1.79	0.48
1:E:46:ARG:HH11	1:E:46:ARG:CB	2.27	0.48
1:E:172:LEU:HD23	1:E:172:LEU:C	2.34	0.48
1:E:630:ARG:HH12	1:G:71:VAL:CG2	2.27	0.48
1:F:132:ASN:HB3	1:F:206:VAL:CG2	2.35	0.48
1:F:354:TRP:HA	1:F:354:TRP:CE3	2.48	0.48
1:F:727:LEU:HD13	1:F:741:TYR:OH	2.13	0.48
1:G:283:SER:OG	1:H:190:GLY:HA2	2.13	0.48
1:G:410:ASP:O	1:G:411:ASN:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:436:TYR:HA	1:G:440:ALA:HB3	1.95	0.48
1:G:578:TYR:CZ	1:I:723:LYS:HE3	2.48	0.48
1:G:694:ASN:HB3	1:H:61:SER:HA	1.95	0.48
1:G:706:LYS:HD2	1:G:720:ASN:ND2	2.29	0.48
1:H:303:LEU:HG	1:H:554:ILE:HG23	1.94	0.48
1:H:354:TRP:HA	1:H:354:TRP:HE3	1.79	0.48
1:I:387:VAL:O	1:I:387:VAL:HG13	2.14	0.48
1:I:664:THR:O	1:I:666:PRO:HD3	2.13	0.48
1:J:456:LEU:HG	1:J:457:PRO:HD2	1.94	0.48
1:K:172:LEU:HD23	1:K:172:LEU:C	2.34	0.48
1:K:813:ARG:HH21	1:L:263:PRO:CD	2.01	0.48
1:L:167:VAL:O	1:L:168:ASP:C	2.51	0.48
1:L:378:PRO:C	1:L:379:ASN:HD22	2.17	0.48
1:L:495:ASN:HB3	1:L:498:ASN:HD22	1.79	0.48
3:N:75:LEU:HG	3:N:77:GLU:OE2	2.13	0.48
1:A:143:PRO:HB2	1:B:408:ASN:ND2	2.28	0.48
1:A:160:ASN:HB2	1:B:398:ARG:HE	1.79	0.48
1:A:351:PHE:CE2	1:A:353:MET:HB3	2.49	0.48
1:A:375:ASP:O	1:B:127:LYS:HE2	2.13	0.48
1:A:542:THR:O	1:A:542:THR:HG23	2.13	0.48
1:A:630:ARG:HG2	1:A:630:ARG:HH11	1.79	0.48
1:A:706:LYS:HD2	1:A:720:ASN:ND2	2.29	0.48
1:A:714:TYR:O	1:A:723:LYS:HG3	2.14	0.48
1:A:903:PRO:HB2	1:A:904:PHE:HD1	1.77	0.48
1:B:355:ASN:ND2	1:B:508:ARG:HG2	2.29	0.48
1:B:727:LEU:HD13	1:B:741:TYR:OH	2.14	0.48
1:B:890:PRO:HG2	1:J:909:ALA:CB	2.43	0.48
1:B:894:VAL:HG22	1:J:908:ASN:O	2.13	0.48
1:C:767:ASN:H	1:C:817:ARG:HA	1.78	0.48
1:C:888:HIS:ND1	1:C:890:PRO:HD3	2.29	0.48
1:D:723:LYS:HE3	1:E:578:TYR:CZ	2.49	0.48
1:E:126:PRO:C	1:E:128:SER:H	2.16	0.48
1:E:160:ASN:OD1	1:F:398:ARG:NH2	2.46	0.48
1:F:76:THR:HG22	1:F:77:GLN:N	2.28	0.48
1:F:388:GLN:HG2	1:F:420:PRO:CG	2.42	0.48
1:F:396:VAL:CG1	1:F:403:TRP:HD1	2.22	0.48
1:F:627:ILE:HG13	1:F:627:ILE:O	2.14	0.48
1:G:116:TYR:CE2	1:I:482:ILE:HD12	2.48	0.48
1:G:169:GLU:O	1:G:169:GLU:HG3	2.14	0.48
1:G:430:LEU:HD21	1:I:426:LEU:HD22	1.96	0.48
1:I:303:LEU:HG	1:I:554:ILE:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:799:HIS:HD2	1:I:800:PRO:CD	2.24	0.48
1:J:172:LEU:HD23	1:J:172:LEU:C	2.34	0.48
1:J:271:VAL:CB	1:J:272:PRO:HD3	2.34	0.48
1:J:436:TYR:HA	1:J:440:ALA:HB3	1.95	0.48
1:K:135:PHE:CE1	1:K:145:GLN:HB3	2.49	0.48
1:K:354:TRP:HA	1:K:354:TRP:HE3	1.79	0.48
1:K:771:GLU:OE1	1:K:771:GLU:HA	2.14	0.48
1:L:285:HIS:ND1	1:L:795:PRO:HD3	2.28	0.48
1:L:664:THR:O	1:L:666:PRO:HD3	2.13	0.48
1:A:723:LYS:HE3	1:B:578:TYR:CZ	2.49	0.48
1:B:135:PHE:CE1	1:B:145:GLN:HB3	2.49	0.48
1:C:167:VAL:O	1:C:168:ASP:C	2.51	0.48
1:C:770:THR:HG21	1:C:816:LEU:HB2	1.94	0.48
1:D:261:LEU:HB2	1:F:813:ARG:HH22	1.79	0.48
1:E:331:ARG:HG2	1:E:332:ASN:N	2.29	0.48
1:E:891:HIS:CD2	4:R:24:SER:CB	2.95	0.48
1:F:303:LEU:HG	1:F:554:ILE:HG23	1.96	0.48
1:F:664:THR:O	1:F:666:PRO:HD3	2.13	0.48
1:F:778:ILE:C	1:F:778:ILE:HD12	2.34	0.48
1:G:723:LYS:HE3	1:H:578:TYR:CZ	2.49	0.48
1:G:786:ALA:CB	1:G:800:PRO:HD3	2.44	0.48
1:H:402:GLN:O	1:H:403:TRP:CB	2.56	0.48
1:H:767:ASN:H	1:H:817:ARG:HA	1.78	0.48
1:I:154:ALA:O	1:I:155:THR:HB	2.14	0.48
1:I:789:PHE:HD1	1:I:791:PHE:N	2.09	0.48
1:I:879:PHE:O	1:I:881:VAL:HG13	2.13	0.48
1:J:116:TYR:CE2	1:L:482:ILE:HD12	2.49	0.48
1:J:155:THR:HG21	1:J:163:LEU:CD1	2.44	0.48
1:J:778:ILE:C	1:J:778:ILE:HD12	2.34	0.48
1:J:850:ASN:ND2	1:J:852:LEU:HB3	2.29	0.48
1:K:242:ARG:HH11	1:L:396:VAL:HG23	1.78	0.48
1:K:354:TRP:HA	1:K:354:TRP:CE3	2.49	0.48
1:K:375:ASP:O	1:L:127:LYS:HE2	2.14	0.48
1:K:770:THR:HG21	1:K:816:LEU:HB2	1.95	0.48
1:L:115:PRO:O	1:L:116:TYR:HB3	2.13	0.48
1:L:172:LEU:C	1:L:172:LEU:HD23	2.34	0.48
3:Q:39:PRO:O	3:Q:40:ASN:CB	2.61	0.48
1:A:154:ALA:O	1:A:155:THR:HB	2.14	0.47
1:A:354:TRP:HA	1:A:354:TRP:HE3	1.79	0.47
1:B:46:ARG:HH11	1:B:46:ARG:CB	2.27	0.47
1:B:685:PHE:C	1:D:909:ALA:CB	2.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:396:VAL:CG2	1:C:405:ASN:HA	2.40	0.47
1:C:837:ASN:OD1	1:C:839:MET:HB2	2.14	0.47
1:D:172:LEU:C	1:D:172:LEU:HD23	2.34	0.47
1:D:477:ASP:O	1:D:480:VAL:HG22	2.14	0.47
1:D:714:TYR:O	1:D:723:LYS:HG3	2.13	0.47
1:E:482:ILE:HD12	1:F:116:TYR:CE2	2.48	0.47
1:E:724:ASP:O	1:E:728:VAL:HG23	2.14	0.47
1:E:771:GLU:OE1	1:E:771:GLU:HA	2.14	0.47
1:E:850:ASN:ND2	1:E:852:LEU:HB3	2.29	0.47
1:F:7:LEU:N	1:F:7:LEU:HD12	2.28	0.47
1:F:191:TRP:CE3	1:F:192:THR:HB	2.48	0.47
1:F:292:ASN:HA	1:F:558:THR:OG1	2.14	0.47
1:F:456:LEU:HG	1:F:457:PRO:HD2	1.95	0.47
1:G:31:PHE:CE2	1:I:592:LEU:HD13	2.48	0.47
1:G:358:MET:SD	1:G:827:ARG:NH2	2.86	0.47
1:G:863:THR:CB	1:L:909:ALA:CB	2.92	0.47
1:H:311:ASN:HD21	1:H:654:PRO:HB3	1.78	0.47
1:H:684:GLN:NE2	1:H:687:SER:HA	2.29	0.47
1:I:778:ILE:C	1:I:778:ILE:HD12	2.34	0.47
1:K:135:PHE:CD1	1:K:145:GLN:HB3	2.49	0.47
1:K:154:ALA:O	1:K:155:THR:HB	2.13	0.47
1:K:355:ASN:ND2	1:K:508:ARG:HG2	2.29	0.47
1:K:388:GLN:HG2	1:K:420:PRO:CG	2.44	0.47
1:K:456:LEU:HG	1:K:457:PRO:HD2	1.95	0.47
1:K:724:ASP:O	1:K:728:VAL:HG23	2.14	0.47
2:M:65:LEU:HG	2:M:89:ILE:CG2	2.44	0.47
2:M:276:MET:SD	2:M:286:THR:O	2.71	0.47
3:O:29:SER:OG	3:O:64:ARG:CZ	2.62	0.47
1:A:261:LEU:HB2	1:C:813:ARG:HH22	1.79	0.47
1:A:750:ARG:HD2	1:A:750:ARG:N	2.29	0.47
1:B:132:ASN:HB3	1:B:206:VAL:CG2	2.34	0.47
1:B:162:ASP:HB2	1:B:254:TYR:OH	2.14	0.47
1:B:354:TRP:HA	1:B:354:TRP:CE3	2.48	0.47
1:B:694:ASN:HB3	1:B:696:ARG:HH12	1.78	0.47
1:B:724:ASP:O	1:B:728:VAL:HG23	2.14	0.47
1:C:191:TRP:CE3	1:C:192:THR:HB	2.48	0.47
1:C:879:PHE:O	1:C:881:VAL:HG13	2.13	0.47
1:D:155:THR:HG21	1:D:163:LEU:CD1	2.43	0.47
1:D:354:TRP:HA	1:D:354:TRP:HE3	1.79	0.47
1:E:135:PHE:CE1	1:E:145:GLN:HB3	2.49	0.47
1:E:309:GLY:HA3	1:G:654:PRO:HD3	1.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:320:SER:CA	1:G:908:ASN:H	2.26	0.47
1:E:375:ASP:O	1:F:127:LYS:HE2	2.14	0.47
1:E:402:GLN:O	1:E:403:TRP:CB	2.56	0.47
1:E:723:LYS:HE3	1:F:578:TYR:CZ	2.49	0.47
1:F:888:HIS:ND1	1:F:890:PRO:HD3	2.29	0.47
1:H:172:LEU:HD23	1:H:172:LEU:C	2.34	0.47
1:H:282:LEU:HD12	1:H:282:LEU:N	2.29	0.47
1:H:778:ILE:HD12	1:H:778:ILE:C	2.34	0.47
1:I:396:VAL:CG1	1:I:403:TRP:HD1	2.22	0.47
1:I:744:PRO:HG2	1:I:749:ASP:OD1	2.14	0.47
1:I:770:THR:HG21	1:I:816:LEU:HB2	1.94	0.47
1:J:395:GLU:HA	1:L:241:TYR:HA	1.94	0.47
1:J:402:GLN:O	1:J:403:TRP:CE3	2.63	0.47
1:J:785:PRO:HD2	1:K:122:ASN:OD1	2.14	0.47
1:K:324:ALA:O	1:K:897:VAL:HG11	2.14	0.47
1:K:564:ARG:HD3	3:P:31:MET:N	2.29	0.47
1:K:713:GLY:C	1:K:715:ASN:H	2.17	0.47
1:L:456:LEU:HG	1:L:457:PRO:HD2	1.95	0.47
2:M:253:ARG:C	2:M:255:PRO:HD3	2.35	0.47
2:M:335:LEU:HD23	2:M:336:LEU:N	2.30	0.47
3:N:97:LEU:HD22	3:P:97:LEU:CD2	0.32	0.47
3:O:35:VAL:N	3:O:64:ARG:CD	2.66	0.47
3:P:29:SER:OG	3:P:64:ARG:CZ	2.62	0.47
3:P:77:GLU:CA	3:P:80:LEU:HD12	2.43	0.47
1:A:436:TYR:O	1:A:440:ALA:HB3	2.15	0.47
1:A:482:ILE:HD12	1:B:116:TYR:CE2	2.50	0.47
1:A:694:ASN:HB3	1:B:61:SER:HA	1.95	0.47
1:B:107:LEU:CD1	1:B:570:VAL:HG12	2.42	0.47
1:B:172:LEU:HD23	1:B:172:LEU:C	2.34	0.47
1:B:456:LEU:HG	1:B:457:PRO:HD2	1.95	0.47
1:B:542:THR:HG23	1:B:542:THR:O	2.13	0.47
1:B:830:TRP:HA	1:B:830:TRP:CE3	2.50	0.47
1:C:154:ALA:O	1:C:155:THR:HB	2.14	0.47
1:D:351:PHE:CE2	1:D:353:MET:HB3	2.49	0.47
1:D:436:TYR:HA	1:D:440:ALA:HB3	1.95	0.47
1:D:456:LEU:HG	1:D:457:PRO:HD2	1.95	0.47
1:D:630:ARG:HG2	1:D:630:ARG:HH11	1.79	0.47
1:E:67:ARG:HH11	1:E:576:ASN:ND2	2.12	0.47
1:E:713:GLY:C	1:E:715:ASN:H	2.17	0.47
1:E:799:HIS:CE1	1:F:132:ASN:ND2	2.80	0.47
1:F:114:LYS:HE2	1:F:264:ASP:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:154:ALA:O	1:F:155:THR:HB	2.14	0.47
1:F:387:VAL:O	1:F:387:VAL:HG13	2.14	0.47
1:F:771:GLU:OE1	1:F:771:GLU:HA	2.14	0.47
1:F:837:ASN:OD1	1:F:839:MET:HB2	2.14	0.47
1:G:436:TYR:HE2	1:I:376:GLU:HB3	1.80	0.47
1:G:439:VAL:CG2	1:G:476:ILE:HG12	2.44	0.47
1:G:785:PRO:HD2	1:H:122:ASN:OD1	2.14	0.47
1:H:724:ASP:O	1:H:728:VAL:HG23	2.14	0.47
1:I:292:ASN:HA	1:I:558:THR:OG1	2.15	0.47
1:I:495:ASN:HB3	1:I:498:ASN:HD22	1.79	0.47
1:J:169:GLU:O	1:J:169:GLU:HG3	2.13	0.47
1:K:767:ASN:CB	1:K:770:THR:HG23	2.44	0.47
2:M:141:MET:CE	2:M:177:ILE:HG23	2.43	0.47
2:M:247:LEU:CD1	2:M:341:VAL:HA	2.44	0.47
3:N:4:GLU:N	3:P:69:GLN:HE21	2.12	0.47
3:N:16:LEU:CD2	3:N:17:PRO:HD2	2.41	0.47
3:O:77:GLU:CD	3:O:77:GLU:H	2.02	0.47
3:O:97:LEU:HG	3:P:97:LEU:HD13	1.02	0.47
3:P:78:ASP:O	3:P:78:ASP:OD1	2.32	0.47
3:Q:34:GLY:O	3:Q:35:VAL:CG2	2.62	0.47
4:R:36:ALA:CB	4:R:40:MET:HG2	2.44	0.47
1:A:713:GLY:C	1:A:715:ASN:H	2.17	0.47
1:A:850:ASN:ND2	1:A:852:LEU:HB3	2.29	0.47
1:B:135:PHE:CD1	1:B:145:GLN:HB3	2.49	0.47
1:B:169:GLU:O	1:B:169:GLU:HG3	2.14	0.47
1:B:241:TYR:HB3	1:C:393:SER:HG	1.78	0.47
1:D:191:TRP:CE3	1:D:192:THR:HB	2.50	0.47
1:D:354:TRP:HA	1:D:354:TRP:CE3	2.49	0.47
1:D:436:TYR:HE2	1:F:376:GLU:HB3	1.80	0.47
1:D:766:PRO:HD3	1:D:809:HIS:NE2	2.20	0.47
1:D:786:ALA:CB	1:D:800:PRO:HD3	2.44	0.47
1:E:107:LEU:CD1	1:E:570:VAL:HG12	2.42	0.47
1:E:135:PHE:CD1	1:E:145:GLN:HB3	2.49	0.47
1:E:354:TRP:HA	1:E:354:TRP:HE3	1.79	0.47
1:E:355:ASN:ND2	1:E:508:ARG:HG2	2.29	0.47
1:F:132:ASN:ND2	1:F:148:ALA:CB	2.77	0.47
1:F:133:THR:CG2	1:F:212:GLN:HG3	2.43	0.47
1:F:436:TYR:HA	1:F:440:ALA:HB3	1.97	0.47
1:G:388:GLN:HG2	1:G:420:PRO:CG	2.44	0.47
1:G:678:PHE:HB3	1:G:705:ILE:HD12	1.95	0.47
1:G:789:PHE:HD1	1:G:791:PHE:N	2.08	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:241:TYR:HB3	1:I:393:SER:HG	1.78	0.47
1:H:533:ASN:HB2	1:H:605:PHE:CE2	2.49	0.47
1:I:456:LEU:HG	1:I:457:PRO:HD2	1.95	0.47
1:J:477:ASP:O	1:J:480:VAL:HG22	2.14	0.47
1:J:482:ILE:HD12	1:K:116:TYR:CE2	2.49	0.47
1:J:627:ILE:O	1:J:627:ILE:HG13	2.13	0.47
1:J:630:ARG:HG2	1:J:630:ARG:HH11	1.79	0.47
1:J:786:ALA:CB	1:J:800:PRO:HD3	2.44	0.47
1:K:162:ASP:HB2	1:K:254:TYR:OH	2.14	0.47
1:K:241:TYR:HB3	1:L:393:SER:HG	1.78	0.47
1:K:533:ASN:HB2	1:K:605:PHE:CE2	2.49	0.47
1:K:694:ASN:HB3	1:K:696:ARG:HH12	1.78	0.47
1:L:387:VAL:O	1:L:387:VAL:HG13	2.14	0.47
1:L:778:ILE:C	1:L:778:ILE:HD12	2.34	0.47
1:L:837:ASN:OD1	1:L:839:MET:HB2	2.14	0.47
2:M:74:GLN:O	2:M:74:GLN:HG3	2.14	0.47
3:N:35:VAL:CG1	3:N:67:GLU:OE2	2.58	0.47
3:O:34:GLY:C	3:O:35:VAL:CG2	2.83	0.47
3:Q:17:PRO:CG	3:Q:22:SER:OG	2.42	0.47
4:R:206:ASN:ND2	4:R:206:ASN:N	2.61	0.47
1:A:354:TRP:HA	1:A:354:TRP:CE3	2.49	0.47
1:B:309:GLY:C	1:J:654:PRO:CD	2.81	0.47
1:B:331:ARG:HG2	1:B:332:ASN:N	2.29	0.47
1:B:354:TRP:HA	1:B:354:TRP:HE3	1.79	0.47
1:B:771:GLU:OE1	1:B:771:GLU:HA	2.14	0.47
1:B:799:HIS:HD2	1:B:800:PRO:CD	2.23	0.47
1:B:890:PRO:HG2	1:J:909:ALA:HB3	1.96	0.47
1:C:378:PRO:C	1:C:379:ASN:HD22	2.18	0.47
1:C:744:PRO:HG2	1:C:749:ASP:OD1	2.14	0.47
1:D:122:ASN:HA	1:F:784:THR:OG1	2.14	0.47
1:D:154:ALA:O	1:D:155:THR:HB	2.14	0.47
1:D:169:GLU:O	1:D:169:GLU:HG3	2.14	0.47
1:D:436:TYR:O	1:D:440:ALA:HB3	2.15	0.47
1:E:778:ILE:C	1:E:778:ILE:HD12	2.34	0.47
1:F:240:TYR:HD2	1:F:249:PRO:HB3	1.78	0.47
1:F:378:PRO:C	1:F:379:ASN:HD22	2.17	0.47
1:G:322:LEU:HD11	4:R:35:SER:OG	2.14	0.47
1:G:630:ARG:HG2	1:G:630:ARG:HH11	1.79	0.47
1:G:714:TYR:O	1:G:723:LYS:HG3	2.14	0.47
1:H:162:ASP:HB2	1:H:254:TYR:OH	2.14	0.47
1:J:750:ARG:N	1:J:750:ARG:HD2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:477:ASP:O	1:L:480:VAL:HG22	2.14	0.47
1:L:750:ARG:N	1:L:750:ARG:HD2	2.30	0.47
2:M:73:ILE:HD12	2:M:98:LEU:HD22	1.96	0.47
3:P:25:ASP:CA	3:P:38:PRO:HB2	2.39	0.47
3:P:39:PRO:O	3:P:40:ASN:CB	2.61	0.47
3:P:75:LEU:HG	3:P:77:GLU:OE2	2.13	0.47
4:R:6:PRO:HG3	4:R:187:LEU:O	2.15	0.47
1:A:241:TYR:HA	1:B:395:GLU:HA	1.97	0.47
1:A:727:LEU:HD13	1:A:741:TYR:OH	2.14	0.47
1:A:786:ALA:CB	1:A:800:PRO:HD3	2.44	0.47
1:B:135:PHE:CE2	1:B:147:ILE:HG21	2.50	0.47
1:B:684:GLN:NE2	1:B:687:SER:HA	2.30	0.47
1:C:292:ASN:HA	1:C:558:THR:OG1	2.15	0.47
1:C:477:ASP:O	1:C:480:VAL:HG22	2.14	0.47
1:C:627:ILE:HG13	1:C:627:ILE:O	2.14	0.47
1:D:439:VAL:CG2	1:D:476:ILE:HG12	2.44	0.47
1:D:713:GLY:C	1:D:715:ASN:H	2.17	0.47
1:D:727:LEU:HD13	1:D:741:TYR:OH	2.14	0.47
1:D:750:ARG:N	1:D:750:ARG:HD2	2.29	0.47
1:D:786:ALA:HB1	1:F:419:LEU:CD1	2.45	0.47
1:E:282:LEU:HD12	1:E:282:LEU:N	2.29	0.47
1:E:324:ALA:O	1:E:897:VAL:HG11	2.14	0.47
1:E:630:ARG:HH11	1:E:630:ARG:HG2	1.80	0.47
1:E:830:TRP:CE3	1:E:830:TRP:HA	2.50	0.47
1:E:909:ALA:N	1:G:83:ARG:NH1	2.31	0.47
1:G:73:ARG:HB3	1:G:82:THR:HG22	1.97	0.47
1:G:191:TRP:CE3	1:G:192:THR:HB	2.50	0.47
1:G:282:LEU:H	1:G:282:LEU:CD1	2.28	0.47
1:G:396:VAL:HG23	1:I:242:ARG:HH11	1.78	0.47
1:G:436:TYR:O	1:G:440:ALA:HB3	2.15	0.47
1:G:694:ASN:HB3	1:G:696:ARG:HH12	1.77	0.47
1:G:850:ASN:ND2	1:G:852:LEU:HB3	2.29	0.47
1:H:155:THR:HG21	1:H:163:LEU:CD1	2.45	0.47
1:H:324:ALA:O	1:H:897:VAL:HG11	2.14	0.47
1:H:789:PHE:HD1	1:H:791:PHE:N	2.09	0.47
1:J:132:ASN:ND2	1:L:799:HIS:CE1	2.80	0.47
1:J:830:TRP:HA	1:J:830:TRP:CE3	2.50	0.47
1:K:135:PHE:CE2	1:K:147:ILE:HG21	2.50	0.47
1:K:830:TRP:HA	1:K:830:TRP:CE3	2.50	0.47
1:L:366:ARG:HH11	1:L:496:PRO:HB3	1.80	0.47
2:M:122:TYR:CE1	2:M:432:PRO:HD3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:31:MET:CB	3:N:32:LEU:HB3	2.28	0.47
3:O:25:ASP:HA	3:O:38:PRO:HB2	1.83	0.47
3:P:34:GLY:O	3:P:35:VAL:CG2	2.62	0.47
3:Q:39:PRO:HA	3:Q:44:HIS:HD2	1.79	0.47
4:R:186:TYR:C	4:R:187:LEU:HD23	2.35	0.47
1:A:132:ASN:ND2	1:A:148:ALA:CB	2.77	0.47
1:A:312:LEU:HD21	1:A:325:VAL:O	2.14	0.47
1:A:396:VAL:HG23	1:C:242:ARG:HH11	1.79	0.47
1:A:785:PRO:HD2	1:B:122:ASN:OD1	2.14	0.47
1:B:67:ARG:HH11	1:B:576:ASN:ND2	2.12	0.47
1:B:241:TYR:HD2	1:C:393:SER:HG	1.63	0.47
1:B:406:VAL:HG22	1:B:408:ASN:HB2	1.94	0.47
1:B:533:ASN:HB2	1:B:605:PHE:CE2	2.49	0.47
1:B:630:ARG:HG2	1:B:630:ARG:HH11	1.79	0.47
1:B:770:THR:HG21	1:B:816:LEU:HB2	1.95	0.47
1:B:850:ASN:ND2	1:B:852:LEU:HB3	2.29	0.47
1:C:7:LEU:HD12	1:C:7:LEU:N	2.28	0.47
1:C:107:LEU:CD1	1:C:570:VAL:HG12	2.42	0.47
1:C:303:LEU:HG	1:C:554:ILE:HG23	1.96	0.47
1:C:354:TRP:HA	1:C:354:TRP:HE3	1.78	0.47
1:C:387:VAL:HG13	1:C:387:VAL:O	2.14	0.47
1:C:563:LEU:HB3	1:C:568:ALA:CB	2.45	0.47
1:D:107:LEU:CD1	1:D:570:VAL:HG12	2.42	0.47
1:D:241:TYR:HA	1:E:395:GLU:HA	1.97	0.47
1:D:312:LEU:HD21	1:D:325:VAL:O	2.14	0.47
1:D:401:GLN:HB2	1:D:402:GLN:H	1.51	0.47
1:D:460:THR:HA	1:D:465:TYR:CD2	2.50	0.47
1:D:482:ILE:HD12	1:E:116:TYR:CE2	2.49	0.47
1:D:785:PRO:HD2	1:E:122:ASN:OD1	2.14	0.47
1:D:830:TRP:HA	1:D:830:TRP:CE3	2.50	0.47
1:E:162:ASP:HB2	1:E:254:TYR:OH	2.14	0.47
1:E:785:PRO:HD2	1:F:122:ASN:OD1	2.15	0.47
1:E:891:HIS:CE1	4:R:25:GLN:O	2.67	0.47
1:F:495:ASN:HB3	1:F:498:ASN:HD22	1.79	0.47
1:F:630:ARG:HG2	1:F:630:ARG:HH11	1.80	0.47
1:F:767:ASN:H	1:F:817:ARG:HA	1.78	0.47
1:G:10:TRP:HB3	1:G:15:ILE:HB	1.96	0.47
1:G:242:ARG:NH2	1:G:244:GLY:HA2	2.30	0.47
1:G:401:GLN:HB2	1:G:402:GLN:H	1.51	0.47
1:G:771:GLU:OE1	1:G:771:GLU:HA	2.14	0.47
1:G:786:ALA:HB1	1:I:419:LEU:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:851:LEU:HB2	4:R:178:VAL:HG21	1.94	0.47
1:H:135:PHE:CD1	1:H:145:GLN:HB3	2.49	0.47
1:H:331:ARG:HG2	1:H:332:ASN:N	2.29	0.47
1:H:375:ASP:O	1:I:127:LYS:HE2	2.14	0.47
1:H:388:GLN:HG2	1:H:420:PRO:CG	2.44	0.47
1:H:592:LEU:HD13	1:I:31:PHE:CE2	2.50	0.47
1:H:630:ARG:HG2	1:H:630:ARG:HH11	1.80	0.47
1:H:771:GLU:OE1	1:H:771:GLU:HA	2.14	0.47
1:H:799:HIS:HD2	1:H:800:PRO:CD	2.23	0.47
1:H:830:TRP:CE3	1:H:830:TRP:HA	2.50	0.47
1:H:888:HIS:ND1	1:H:890:PRO:HD3	2.30	0.47
1:H:900:LEU:CD2	1:I:9:GLN:HE21	2.23	0.47
1:I:258:ALA:HB3	1:I:260:VAL:HG13	1.96	0.47
1:I:890:PRO:HG2	1:I:891:HIS:H	1.80	0.47
1:J:242:ARG:NH2	1:J:244:GLY:HA2	2.30	0.47
1:J:292:ASN:HA	1:J:558:THR:OG1	2.14	0.47
1:J:312:LEU:HD21	1:J:325:VAL:O	2.14	0.47
1:J:354:TRP:HA	1:J:354:TRP:CE3	2.49	0.47
1:J:460:THR:HA	1:J:465:TYR:CD2	2.50	0.47
1:J:771:GLU:OE1	1:J:771:GLU:HA	2.14	0.47
1:K:46:ARG:HH11	1:K:46:ARG:CB	2.27	0.47
1:K:107:LEU:CD1	1:K:570:VAL:HG12	2.42	0.47
1:K:458:PRO:HD2	3:P:65:ARG:HD3	1.97	0.47
1:K:723:LYS:HE3	1:L:578:TYR:CZ	2.49	0.47
1:K:785:PRO:HD2	1:L:122:ASN:OD1	2.15	0.47
1:L:240:TYR:HD2	1:L:249:PRO:HB3	1.78	0.47
1:L:331:ARG:HG2	1:L:332:ASN:N	2.30	0.47
1:L:436:TYR:HA	1:L:440:ALA:HB3	1.97	0.47
1:L:630:ARG:HG2	1:L:630:ARG:HH11	1.80	0.47
1:L:888:HIS:ND1	1:L:890:PRO:HD3	2.29	0.47
2:M:45:GLY:O	2:M:108:ASP:HB3	2.15	0.47
2:M:95:PHE:O	2:M:96:THR:HB	2.15	0.47
2:M:355:MET:HG2	2:M:442:LEU:HD11	1.95	0.47
3:N:30:ASN:H	3:N:34:GLY:N	2.08	0.47
3:N:67:GLU:HB3	3:N:68:ASP:CB	2.34	0.47
3:N:89:LEU:CD1	3:O:87:MET:CE	2.92	0.47
3:N:104:LEU:CD1	3:P:104:LEU:CG	2.67	0.47
3:O:31:MET:CB	3:O:32:LEU:HB3	2.28	0.47
3:Q:29:SER:OG	3:Q:64:ARG:CZ	2.62	0.47
3:Q:40:ASN:O	3:Q:41:SER:CB	2.51	0.47
3:Q:66:PRO:O	3:Q:67:GLU:OE2	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:R:38:PRO:HG2	4:R:39:ASP:H	1.80	0.47
4:R:202:ILE:HD12	4:R:202:ILE:N	2.29	0.47
1:A:172:LEU:C	1:A:172:LEU:HD23	2.34	0.47
1:A:460:THR:HA	1:A:465:TYR:CD2	2.50	0.47
1:B:785:PRO:HD2	1:C:122:ASN:OD1	2.15	0.47
1:E:533:ASN:HB2	1:E:605:PHE:CE2	2.49	0.47
1:E:770:THR:HG21	1:E:816:LEU:HB2	1.95	0.47
1:F:744:PRO:HG2	1:F:749:ASP:OD1	2.14	0.47
1:G:190:GLY:HA2	1:I:283:SER:OG	2.15	0.47
1:G:351:PHE:CE2	1:G:353:MET:HB3	2.49	0.47
1:H:264:ASP:HA	1:H:289:ASN:HD22	1.80	0.47
1:H:307:ASN:HD21	1:H:333:THR:N	1.99	0.47
1:J:8:PRO:CD	4:R:18:GLY:CA	2.90	0.47
1:J:261:LEU:HB2	1:L:813:ARG:HH22	1.79	0.47
1:J:351:PHE:CE2	1:J:353:MET:HB3	2.49	0.47
1:J:694:ASN:HB3	1:K:61:SER:HA	1.95	0.47
1:J:770:THR:HG21	1:J:816:LEU:HB2	1.97	0.47
1:K:850:ASN:ND2	1:K:852:LEU:HB3	2.29	0.47
1:L:132:ASN:ND2	1:L:148:ALA:CB	2.77	0.47
1:L:292:ASN:HA	1:L:558:THR:OG1	2.15	0.47
1:L:303:LEU:HG	1:L:554:ILE:HG23	1.96	0.47
2:M:264:TYR:CE1	2:M:315:ARG:HD3	2.49	0.47
3:N:78:ASP:O	3:N:78:ASP:OD1	2.33	0.47
3:O:78:ASP:O	3:O:78:ASP:OD1	2.33	0.47
3:P:39:PRO:HA	3:P:44:HIS:HD2	1.79	0.47
3:P:76:VAL:HB	3:P:80:LEU:CD1	2.45	0.47
3:Q:18:LYS:CG	3:Q:19:TRP:N	2.75	0.47
1:A:122:ASN:HA	1:C:784:THR:OG1	2.14	0.47
1:A:813:ARG:HH22	1:B:261:LEU:HB2	1.80	0.47
1:B:282:LEU:HD12	1:B:282:LEU:N	2.28	0.47
1:B:283:SER:OG	1:C:190:GLY:HA2	2.15	0.47
1:B:375:ASP:O	1:C:127:LYS:HE2	2.14	0.47
1:C:470:ILE:HG23	1:C:793:ARG:HD3	1.97	0.47
1:D:635:PHE:N	1:D:635:PHE:CD1	2.81	0.47
1:G:388:GLN:CG	1:G:420:PRO:HG3	2.45	0.47
1:H:456:LEU:HG	1:H:457:PRO:HD2	1.95	0.47
1:H:750:ARG:N	1:H:750:ARG:HD2	2.30	0.47
1:J:766:PRO:HD3	1:J:809:HIS:NE2	2.20	0.47
1:K:401:GLN:HB2	1:K:402:GLN:H	1.51	0.47
1:L:109:ARG:HH21	1:L:512:LEU:HB2	1.76	0.47
1:L:282:LEU:H	1:L:282:LEU:CD1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:64:ARG:O	3:N:65:ARG:NH1	2.48	0.47
3:O:34:GLY:O	3:O:35:VAL:CG2	2.62	0.47
3:O:90:LEU:HD21	3:P:90:LEU:CD2	0.74	0.47
3:P:34:GLY:C	3:P:35:VAL:CG2	2.83	0.47
3:Q:76:VAL:HB	3:Q:80:LEU:CD1	2.45	0.47
1:A:233:ASN:ND2	1:A:235:GLN:HB2	2.30	0.47
1:A:282:LEU:H	1:A:282:LEU:CD1	2.28	0.47
1:A:436:TYR:HE2	1:C:376:GLU:HB3	1.80	0.47
1:B:328:LEU:C	1:B:330:ASP:H	2.19	0.47
1:B:439:VAL:CG2	1:B:476:ILE:HG12	2.45	0.47
1:B:711:GLY:O	1:D:76:THR:HG23	2.15	0.47
1:C:750:ARG:HD2	1:C:750:ARG:N	2.30	0.47
1:E:283:SER:OG	1:F:190:GLY:HA2	2.15	0.47
1:E:620:PRO:O	1:E:621:ASN:HB2	2.15	0.47
1:E:837:ASN:OD1	1:E:839:MET:HB2	2.15	0.47
1:F:563:LEU:HB3	1:F:568:ALA:CB	2.45	0.47
1:G:132:ASN:ND2	1:I:799:HIS:CE1	2.80	0.47
1:G:162:ASP:HB2	1:G:254:TYR:OH	2.15	0.47
1:G:477:ASP:O	1:G:480:VAL:HG22	2.14	0.47
1:H:135:PHE:CE2	1:H:147:ILE:HG21	2.50	0.47
1:H:169:GLU:O	1:H:169:GLU:HG3	2.14	0.47
1:H:283:SER:OG	1:I:190:GLY:HA2	2.15	0.47
1:H:727:LEU:HD13	1:H:741:TYR:OH	2.14	0.47
1:H:836:SER:CB	1:I:57:THR:HG21	2.42	0.47
1:I:103:ILE:HG23	1:I:572:ILE:CD1	2.42	0.47
1:I:533:ASN:HB2	1:I:605:PHE:CE2	2.50	0.47
1:I:789:PHE:HE1	1:I:791:PHE:CD2	2.33	0.47
1:J:10:TRP:HB3	1:J:15:ILE:HB	1.96	0.47
1:J:73:ARG:HB3	1:J:82:THR:HG22	1.97	0.47
1:J:146:THR:O	1:K:412:ASN:HB3	2.15	0.47
1:J:191:TRP:CE3	1:J:192:THR:HB	2.50	0.47
1:J:388:GLN:HG2	1:J:420:PRO:CG	2.44	0.47
1:K:684:GLN:NE2	1:K:687:SER:HA	2.30	0.47
1:L:533:ASN:HB2	1:L:605:PHE:CE2	2.50	0.47
3:N:86:ARG:HE	3:O:87:MET:CG	2.25	0.47
3:P:66:PRO:O	3:P:67:GLU:OE2	2.33	0.47
3:Q:64:ARG:O	3:Q:65:ARG:NH1	2.48	0.47
1:A:770:THR:HG21	1:A:816:LEU:HB2	1.97	0.46
1:A:790:ARG:CZ	1:B:186:LEU:HA	2.46	0.46
1:A:830:TRP:HA	1:A:830:TRP:CE3	2.50	0.46
1:B:242:ARG:HH11	1:C:396:VAL:HG23	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:GLN:HG2	1:B:420:PRO:CG	2.44	0.46
1:C:328:LEU:C	1:C:330:ASP:H	2.19	0.46
1:C:436:TYR:HA	1:C:440:ALA:HB3	1.97	0.46
1:C:630:ARG:HG2	1:C:630:ARG:HH11	1.80	0.46
1:E:38:TYR:CD1	1:E:38:TYR:N	2.80	0.46
1:E:155:THR:HG21	1:E:163:LEU:CD1	2.45	0.46
1:E:264:ASP:HA	1:E:289:ASN:HD22	1.80	0.46
1:E:477:ASP:O	1:E:480:VAL:HG22	2.15	0.46
1:E:888:HIS:ND1	1:E:890:PRO:HD3	2.30	0.46
1:F:477:ASP:O	1:F:480:VAL:HG22	2.14	0.46
1:F:709:VAL:HG23	1:F:709:VAL:O	2.16	0.46
1:F:789:PHE:HD1	1:F:791:PHE:N	2.09	0.46
1:G:241:TYR:HA	1:H:395:GLU:HA	1.97	0.46
1:G:482:ILE:HD12	1:H:116:TYR:CE2	2.50	0.46
1:G:515:GLY:HA2	1:I:809:HIS:O	2.16	0.46
1:H:439:VAL:HG21	1:H:476:ILE:HG12	1.97	0.46
1:H:785:PRO:HD2	1:I:122:ASN:OD1	2.15	0.46
1:H:837:ASN:OD1	1:H:839:MET:HB2	2.15	0.46
1:I:477:ASP:O	1:I:480:VAL:HG22	2.14	0.46
1:J:9:GLN:HB2	4:R:15:PRO:C	2.22	0.46
1:J:162:ASP:HB2	1:J:254:TYR:OH	2.15	0.46
1:J:789:PHE:HD1	1:J:791:PHE:N	2.09	0.46
1:K:155:THR:HG21	1:K:163:LEU:CD1	2.45	0.46
1:K:264:ASP:HA	1:K:289:ASN:HD22	1.80	0.46
1:K:283:SER:OG	1:L:190:GLY:HA2	2.15	0.46
1:K:328:LEU:C	1:K:330:ASP:H	2.18	0.46
3:N:4:GLU:N	3:P:69:GLN:HG3	2.29	0.46
1:A:322:LEU:HD11	2:M:445:ARG:HH22	1.80	0.46
1:A:621:ASN:N	1:A:621:ASN:HD22	2.14	0.46
1:B:630:ARG:HH22	1:J:71:VAL:HG21	1.80	0.46
1:B:837:ASN:OD1	1:B:839:MET:HB2	2.15	0.46
1:C:830:TRP:HA	1:C:830:TRP:CE3	2.50	0.46
1:D:162:ASP:HB2	1:D:254:TYR:OH	2.15	0.46
1:D:630:ARG:HB3	1:D:859:ALA:HA	1.97	0.46
1:D:813:ARG:HH22	1:E:261:LEU:HB2	1.80	0.46
1:E:627:ILE:O	1:E:627:ILE:HG13	2.16	0.46
1:E:684:GLN:NE2	1:E:687:SER:HA	2.30	0.46
1:E:804:LEU:HD11	1:F:222:PRO:CB	2.33	0.46
1:F:366:ARG:HH11	1:F:496:PRO:HB3	1.80	0.46
1:F:439:VAL:CG2	1:F:476:ILE:HG12	2.46	0.46
1:F:830:TRP:HA	1:F:830:TRP:CE3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:132:ASN:ND2	1:G:148:ALA:CB	2.77	0.46
1:G:261:LEU:HB2	1:I:813:ARG:HH22	1.79	0.46
1:G:303:LEU:HG	1:G:554:ILE:HG23	1.96	0.46
1:G:312:LEU:HD21	1:G:325:VAL:O	2.15	0.46
1:G:797:GLU:CD	1:H:188:ILE:O	2.54	0.46
1:I:378:PRO:C	1:I:379:ASN:HD22	2.17	0.46
1:I:396:VAL:CG2	1:I:405:ASN:HA	2.40	0.46
1:I:750:ARG:HD2	1:I:750:ARG:N	2.30	0.46
1:J:430:LEU:HD21	1:L:426:LEU:HD22	1.96	0.46
1:K:592:LEU:HD13	1:L:31:PHE:CE2	2.50	0.46
3:N:29:SER:OG	3:N:64:ARG:CZ	2.62	0.46
3:O:74:ILE:CG1	3:O:78:ASP:OD2	2.64	0.46
3:O:90:LEU:CD2	3:P:90:LEU:HD22	0.70	0.46
1:A:331:ARG:HG2	1:A:332:ASN:N	2.30	0.46
1:A:388:GLN:HG2	1:A:420:PRO:CG	2.44	0.46
1:A:796:ARG:HD3	1:A:796:ARG:N	2.31	0.46
1:B:602:ASP:OD1	1:B:888:HIS:HA	2.16	0.46
1:B:900:LEU:CD2	1:C:9:GLN:HE21	2.23	0.46
1:C:282:LEU:H	1:C:282:LEU:CD1	2.28	0.46
1:C:533:ASN:HB2	1:C:605:PHE:CE2	2.50	0.46
1:C:536:LEU:HA	1:C:889:GLN:HE22	1.81	0.46
1:D:282:LEU:H	1:D:282:LEU:CD1	2.28	0.46
1:D:331:ARG:HG2	1:D:332:ASN:N	2.30	0.46
1:D:430:LEU:HD21	1:F:426:LEU:HD22	1.96	0.46
1:D:796:ARG:HD3	1:D:796:ARG:N	2.31	0.46
1:E:293:PHE:HB2	1:E:558:THR:HG23	1.98	0.46
1:E:797:GLU:CD	1:F:188:ILE:O	2.54	0.46
1:F:154:ALA:O	1:F:155:THR:CB	2.64	0.46
1:F:170:ARG:CG	1:F:171:GLN:H	2.21	0.46
1:F:528:PHE:CE2	1:F:530:ALA:HB3	2.51	0.46
1:F:534:LEU:HG	1:F:536:LEU:HD12	1.98	0.46
1:F:750:ARG:HD2	1:F:750:ARG:N	2.30	0.46
1:G:460:THR:HA	1:G:465:TYR:CD2	2.50	0.46
1:G:770:THR:HG21	1:G:816:LEU:HB2	1.97	0.46
1:G:811:ASP:CG	1:G:812:PRO:HD2	2.36	0.46
1:H:160:ASN:OD1	1:I:398:ARG:NH2	2.47	0.46
1:H:376:GLU:HB3	1:I:436:TYR:HE2	1.81	0.46
1:H:713:GLY:C	1:H:715:ASN:H	2.17	0.46
1:I:436:TYR:HA	1:I:440:ALA:HB3	1.97	0.46
1:I:830:TRP:HA	1:I:830:TRP:CE3	2.51	0.46
1:I:888:HIS:ND1	1:I:890:PRO:HD3	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:132:ASN:ND2	1:J:148:ALA:CB	2.78	0.46
1:J:786:ALA:HB1	1:L:419:LEU:CD1	2.45	0.46
1:K:331:ARG:HG2	1:K:332:ASN:N	2.29	0.46
1:K:655:PHE:CE2	3:P:30:ASN:ND2	2.82	0.46
1:L:439:VAL:CG2	1:L:476:ILE:HG12	2.46	0.46
1:L:460:THR:HA	1:L:465:TYR:CD2	2.51	0.46
2:M:105:ILE:HB	2:M:446:LEU:HD22	1.96	0.46
3:N:8:TYR:CD1	3:N:8:TYR:N	2.69	0.46
3:N:76:VAL:HB	3:N:80:LEU:CD1	2.45	0.46
3:O:64:ARG:O	3:O:65:ARG:NH1	2.48	0.46
3:O:97:LEU:HD13	3:P:97:LEU:HD21	1.88	0.46
3:P:64:ARG:O	3:P:65:ARG:NH1	2.48	0.46
1:A:32:ALA:HB2	1:A:41:ILE:HD11	1.98	0.46
1:A:477:ASP:O	1:A:480:VAL:HG22	2.14	0.46
1:A:804:LEU:HD11	1:B:222:PRO:CB	2.33	0.46
1:A:813:ARG:HH21	1:B:263:PRO:CD	2.07	0.46
1:B:242:ARG:HG3	1:B:243:THR:N	2.30	0.46
1:C:170:ARG:CG	1:C:171:GLN:H	2.21	0.46
1:C:371:VAL:HG22	1:C:371:VAL:O	2.16	0.46
1:D:126:PRO:HA	1:F:423:GLU:OE2	2.16	0.46
1:D:127:LYS:HE2	1:F:375:ASP:O	2.16	0.46
1:D:146:THR:O	1:E:412:ASN:HB3	2.15	0.46
1:D:242:ARG:NH2	1:D:244:GLY:HA2	2.30	0.46
1:D:790:ARG:CZ	1:E:186:LEU:HA	2.46	0.46
1:E:632:TRP:CD1	1:G:321:GLN:CD	2.88	0.46
1:F:242:ARG:NH2	1:F:244:GLY:HA2	2.31	0.46
1:F:331:ARG:HG2	1:F:332:ASN:N	2.30	0.46
1:F:396:VAL:CG2	1:F:405:ASN:HA	2.40	0.46
1:F:789:PHE:HE1	1:F:791:PHE:CD2	2.33	0.46
1:G:331:ARG:HG2	1:G:332:ASN:N	2.30	0.46
1:G:857:ALA:O	4:R:12:THR:HA	2.16	0.46
1:H:242:ARG:HG3	1:H:243:THR:N	2.30	0.46
1:H:635:PHE:CD1	1:H:635:PHE:N	2.82	0.46
1:I:242:ARG:NH2	1:I:244:GLY:HA2	2.31	0.46
1:I:366:ARG:HH11	1:I:496:PRO:HB3	1.80	0.46
1:I:528:PHE:CE2	1:I:530:ALA:HB3	2.50	0.46
1:I:597:ARG:HG2	1:I:597:ARG:HH11	1.81	0.46
1:I:677:THR:O	1:I:866:MET:HB2	2.15	0.46
1:I:767:ASN:CB	1:I:770:THR:HG23	2.45	0.46
1:I:837:ASN:OD1	1:I:839:MET:HB2	2.14	0.46
1:J:202:ALA:O	1:J:251:THR:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:515:GLY:HA2	1:L:809:HIS:O	2.16	0.46
1:L:133:THR:HB	1:L:212:GLN:NE2	2.31	0.46
1:L:528:PHE:CE2	1:L:530:ALA:HB3	2.50	0.46
1:L:855:ASN:HB3	4:R:203:ARG:HB2	1.98	0.46
1:L:890:PRO:HG2	1:L:891:HIS:H	1.80	0.46
3:N:34:GLY:C	3:N:35:VAL:CG2	2.83	0.46
1:A:73:ARG:HB3	1:A:82:THR:HG22	1.97	0.46
1:A:146:THR:O	1:B:412:ASN:HB3	2.15	0.46
1:A:202:ALA:O	1:A:251:THR:HA	2.16	0.46
1:A:641:THR:HG21	1:A:672:PHE:HB3	1.98	0.46
1:A:796:ARG:HD3	1:A:796:ARG:H	1.81	0.46
1:B:309:GLY:O	1:J:654:PRO:CD	2.59	0.46
1:B:686:ASP:OD1	1:D:632:TRP:HE3	1.85	0.46
1:C:534:LEU:HG	1:C:536:LEU:HD12	1.98	0.46
1:D:398:ARG:HE	1:F:160:ASN:HB2	1.81	0.46
1:D:432:ARG:HG2	1:F:377:MET:SD	2.56	0.46
1:F:282:LEU:H	1:F:282:LEU:CD1	2.28	0.46
1:F:328:LEU:C	1:F:330:ASP:H	2.19	0.46
1:F:396:VAL:HG22	1:F:405:ASN:CA	2.43	0.46
1:F:536:LEU:HA	1:F:889:GLN:HE22	1.81	0.46
1:F:597:ARG:HG2	1:F:597:ARG:HH11	1.81	0.46
1:G:32:ALA:HB2	1:G:41:ILE:HD11	1.98	0.46
1:G:621:ASN:N	1:G:621:ASN:HD22	2.14	0.46
1:G:630:ARG:HB3	1:G:859:ALA:HA	1.97	0.46
1:H:67:ARG:HH11	1:H:576:ASN:ND2	2.12	0.46
1:I:388:GLN:HG2	1:I:420:PRO:CG	2.42	0.46
1:I:536:LEU:HA	1:I:889:GLN:HE22	1.80	0.46
1:I:620:PRO:O	1:I:621:ASN:HB2	2.16	0.46
1:I:771:GLU:HA	1:I:771:GLU:OE1	2.14	0.46
1:J:160:ASN:HB2	1:K:398:ARG:HE	1.79	0.46
1:J:222:PRO:CB	1:L:804:LEU:HD11	2.36	0.46
1:J:790:ARG:CZ	1:K:186:LEU:HA	2.45	0.46
1:K:154:ALA:O	1:K:155:THR:CB	2.64	0.46
1:K:242:ARG:HG3	1:K:243:THR:N	2.30	0.46
1:K:439:VAL:HG21	1:K:476:ILE:HG12	1.97	0.46
1:K:473:SER:N	1:K:792:CYS:SG	2.89	0.46
1:K:761:MET:HE1	1:K:824:LEU:HD13	1.97	0.46
1:K:837:ASN:OD1	1:K:839:MET:HB2	2.15	0.46
1:L:470:ILE:HG23	1:L:793:ARG:HD3	1.97	0.46
1:L:534:LEU:HG	1:L:536:LEU:HD12	1.97	0.46
1:L:830:TRP:HA	1:L:830:TRP:CE3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:82:HIS:HA	2:M:85:TYR:CD1	2.51	0.46
2:M:285:LYS:HE3	2:M:288:ARG:CB	2.40	0.46
3:O:76:VAL:HB	3:O:80:LEU:CD1	2.45	0.46
3:P:25:ASP:OD1	3:P:25:ASP:N	2.49	0.46
3:Q:34:GLY:C	3:Q:35:VAL:CG2	2.83	0.46
3:Q:35:VAL:CG1	3:Q:64:ARG:H	2.29	0.46
3:Q:73:MET:SD	3:Q:74:ILE:C	2.94	0.46
3:Q:76:VAL:CG2	3:Q:77:GLU:OE2	2.55	0.46
1:A:190:GLY:HA2	1:C:283:SER:OG	2.15	0.46
1:A:191:TRP:CE3	1:A:192:THR:HB	2.50	0.46
1:A:432:ARG:HG2	1:C:377:MET:SD	2.56	0.46
1:A:630:ARG:HB3	1:A:859:ALA:HA	1.97	0.46
1:A:771:GLU:HA	1:A:771:GLU:OE1	2.15	0.46
1:B:160:ASN:OD1	1:C:398:ARG:NH2	2.46	0.46
1:B:371:VAL:O	1:B:371:VAL:HG22	2.16	0.46
1:B:477:ASP:O	1:B:480:VAL:HG22	2.15	0.46
1:B:632:TRP:CG	1:J:321:GLN:CB	2.96	0.46
1:B:797:GLU:CD	1:C:188:ILE:O	2.54	0.46
1:B:888:HIS:ND1	1:B:890:PRO:HD3	2.30	0.46
1:C:133:THR:CG2	1:C:212:GLN:HG3	2.43	0.46
1:C:439:VAL:CG2	1:C:476:ILE:HG12	2.46	0.46
1:C:789:PHE:HE1	1:C:791:PHE:CD2	2.34	0.46
1:D:67:ARG:HH11	1:D:576:ASN:ND2	2.12	0.46
1:D:208:ARG:NH1	1:D:256:GLU:CA	2.79	0.46
1:D:396:VAL:CG2	1:D:405:ASN:HA	2.43	0.46
1:D:563:LEU:HB3	1:D:568:ALA:CB	2.46	0.46
1:D:794:ALA:CB	1:D:795:PRO:HD2	2.36	0.46
1:E:473:SER:N	1:E:792:CYS:SG	2.89	0.46
1:F:248:ASN:OD1	1:F:249:PRO:HD2	2.16	0.46
1:G:146:THR:O	1:H:412:ASN:HB3	2.15	0.46
1:G:396:VAL:CG2	1:G:405:ASN:HA	2.43	0.46
1:G:727:LEU:HD13	1:G:741:TYR:OH	2.14	0.46
1:G:830:TRP:HA	1:G:830:TRP:CE3	2.50	0.46
1:H:477:ASP:O	1:H:480:VAL:HG22	2.15	0.46
1:I:331:ARG:HG2	1:I:332:ASN:N	2.30	0.46
1:I:709:VAL:HG23	1:I:709:VAL:O	2.16	0.46
1:J:126:PRO:HA	1:L:423:GLU:OE2	2.16	0.46
1:J:190:GLY:HA2	1:L:283:SER:OG	2.15	0.46
1:J:347:ARG:HH21	1:J:356:GLN:CG	2.27	0.46
1:J:796:ARG:HD3	1:J:796:ARG:N	2.31	0.46
1:J:813:ARG:HH22	1:K:261:LEU:HB2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:293:PHE:HB2	1:K:558:THR:HG23	1.98	0.46
1:K:439:VAL:CG2	1:K:476:ILE:HG12	2.45	0.46
1:K:630:ARG:HG2	1:K:630:ARG:HH11	1.80	0.46
1:L:771:GLU:HA	1:L:771:GLU:OE1	2.14	0.46
2:M:124:ASN:C	2:M:124:ASN:HD22	2.18	0.46
3:P:30:ASN:H	3:P:34:GLY:N	2.08	0.46
3:Q:25:ASP:OD1	3:Q:25:ASP:N	2.49	0.46
1:A:242:ARG:NH2	1:A:244:GLY:HA2	2.30	0.46
1:A:398:ARG:HE	1:C:160:ASN:HB2	1.81	0.46
1:A:797:GLU:CD	1:B:188:ILE:O	2.54	0.46
1:A:837:ASN:OD1	1:A:839:MET:HB2	2.16	0.46
1:B:155:THR:HG21	1:B:163:LEU:CD1	2.45	0.46
1:B:620:PRO:O	1:B:621:ASN:HB2	2.15	0.46
1:C:366:ARG:HH11	1:C:496:PRO:HB3	1.80	0.46
1:C:677:THR:O	1:C:866:MET:HB2	2.15	0.46
1:D:202:ALA:O	1:D:251:THR:HA	2.16	0.46
1:D:811:ASP:CG	1:D:812:PRO:HD2	2.36	0.46
1:E:133:THR:CG2	1:E:212:GLN:HG3	2.44	0.46
1:E:439:VAL:CG2	1:E:476:ILE:HG12	2.45	0.46
1:G:398:ARG:HE	1:I:160:ASN:HB2	1.81	0.46
1:G:664:THR:O	1:G:666:PRO:HD3	2.16	0.46
1:H:293:PHE:HB2	1:H:558:THR:HG23	1.98	0.46
1:I:154:ALA:O	1:I:155:THR:CB	2.64	0.46
1:I:460:THR:HA	1:I:465:TYR:CD2	2.51	0.46
1:J:233:ASN:ND2	1:J:235:GLN:HB2	2.31	0.46
1:J:264:ASP:HA	1:J:289:ASN:HD22	1.81	0.46
1:J:432:ARG:HG2	1:L:377:MET:SD	2.56	0.46
1:K:477:ASP:O	1:K:480:VAL:HG22	2.15	0.46
1:K:879:PHE:O	1:K:881:VAL:HG13	2.16	0.46
1:L:248:ASN:OD1	1:L:249:PRO:HD2	2.16	0.46
1:L:620:PRO:O	1:L:621:ASN:HB2	2.16	0.46
1:L:635:PHE:N	1:L:635:PHE:CD1	2.81	0.46
3:N:74:ILE:CG1	3:N:78:ASP:OD2	2.63	0.46
3:P:27:THR:HG23	3:P:68:ASP:CB	2.46	0.46
3:P:77:GLU:OE1	3:P:80:LEU:CD1	2.60	0.46
3:Q:16:LEU:CD2	3:Q:17:PRO:HD2	2.41	0.46
1:A:534:LEU:HG	1:A:536:LEU:HD12	1.98	0.46
1:B:473:SER:N	1:B:792:CYS:SG	2.89	0.46
1:B:592:LEU:HD13	1:C:31:PHE:CE2	2.50	0.46
1:B:627:ILE:O	1:B:627:ILE:HG13	2.16	0.46
1:B:713:GLY:C	1:B:715:ASN:H	2.17	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:133:THR:HB	1:C:212:GLN:NE2	2.31	0.46
1:C:460:THR:HA	1:C:465:TYR:CD2	2.51	0.46
1:C:709:VAL:HG23	1:C:709:VAL:O	2.16	0.46
1:D:233:ASN:ND2	1:D:235:GLN:HB2	2.30	0.46
1:D:388:GLN:HG2	1:D:420:PRO:CG	2.44	0.46
1:E:358:MET:SD	1:E:827:ARG:NH2	2.89	0.46
1:E:750:ARG:N	1:E:750:ARG:HD2	2.30	0.46
1:F:677:THR:O	1:F:866:MET:HB2	2.16	0.46
1:F:714:TYR:O	1:F:723:LYS:N	2.49	0.46
1:G:121:TYR:OH	1:I:808:PRO:HG3	2.16	0.46
1:G:127:LYS:HE2	1:I:375:ASP:O	2.16	0.46
1:G:208:ARG:NH1	1:G:256:GLU:CA	2.79	0.46
1:G:354:TRP:HA	1:G:354:TRP:HE3	1.79	0.46
1:G:419:LEU:CD1	1:H:786:ALA:HB1	2.45	0.46
1:G:796:ARG:HD3	1:G:796:ARG:N	2.31	0.46
1:G:837:ASN:OD1	1:G:839:MET:HB2	2.16	0.46
1:H:473:SER:N	1:H:792:CYS:SG	2.89	0.46
1:H:797:GLU:CD	1:I:188:ILE:O	2.54	0.46
1:I:630:ARG:HG2	1:I:630:ARG:HH11	1.80	0.46
1:J:32:ALA:HB2	1:J:41:ILE:HD11	1.98	0.46
1:J:127:LYS:HE2	1:L:375:ASP:O	2.16	0.46
1:J:331:ARG:HG2	1:J:332:ASN:N	2.30	0.46
1:J:563:LEU:HB3	1:J:568:ALA:CB	2.46	0.46
1:J:796:ARG:HD3	1:J:796:ARG:H	1.81	0.46
1:K:620:PRO:O	1:K:621:ASN:HB2	2.15	0.46
1:K:624:GLN:NE2	3:O:17:PRO:HB3	2.31	0.46
1:L:154:ALA:O	1:L:155:THR:CB	2.64	0.46
1:L:162:ASP:HB2	1:L:254:TYR:OH	2.16	0.46
1:L:233:ASN:ND2	1:L:235:GLN:HB2	2.30	0.46
1:L:709:VAL:HG23	1:L:709:VAL:O	2.16	0.46
2:M:76:LEU:HD13	2:M:86:LEU:CD1	2.46	0.46
3:N:45:ARG:HG2	3:N:46:THR:N	2.31	0.46
3:N:66:PRO:O	3:N:67:GLU:OE2	2.33	0.46
3:N:73:MET:SD	3:N:74:ILE:C	2.94	0.46
3:N:86:ARG:CZ	3:O:83:LEU:O	2.51	0.46
3:O:74:ILE:HG23	3:O:78:ASP:CB	2.46	0.46
3:P:73:MET:SD	3:P:74:ILE:C	2.94	0.46
3:Q:74:ILE:CG1	3:Q:78:ASP:OD2	2.64	0.46
1:A:162:ASP:HB2	1:A:254:TYR:OH	2.15	0.46
1:A:409:SER:HB2	1:C:142:HIS:HA	1.98	0.46
1:A:664:THR:O	1:A:666:PRO:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:811:ASP:CG	1:A:812:PRO:HD2	2.36	0.46
1:B:114:LYS:HE2	1:B:264:ASP:HB2	1.98	0.46
1:B:310:GLY:CA	1:J:655:PHE:HB3	2.45	0.46
1:B:358:MET:SD	1:B:827:ARG:NH2	2.89	0.46
1:C:132:ASN:ND2	1:C:148:ALA:CB	2.77	0.46
1:C:641:THR:HG21	1:C:672:PHE:HB3	1.98	0.46
1:C:789:PHE:HD1	1:C:791:PHE:N	2.09	0.46
1:D:142:HIS:CA	1:E:409:SER:HB2	2.46	0.46
1:D:208:ARG:HH12	1:D:256:GLU:CA	2.23	0.46
1:D:771:GLU:OE1	1:D:771:GLU:HA	2.14	0.46
1:D:813:ARG:HH21	1:E:263:PRO:CD	2.07	0.46
1:E:592:LEU:HD13	1:F:31:PHE:CE2	2.50	0.46
1:E:664:THR:O	1:E:666:PRO:HD3	2.16	0.46
1:F:470:ILE:HG23	1:F:793:ARG:HD3	1.97	0.46
1:G:862:MET:O	1:L:909:ALA:HB3	2.16	0.46
1:H:133:THR:CG2	1:H:212:GLN:HG3	2.44	0.46
1:H:154:ALA:O	1:H:155:THR:CB	2.64	0.46
1:H:387:VAL:HG13	1:H:387:VAL:O	2.16	0.46
1:H:439:VAL:CG2	1:H:476:ILE:HG12	2.45	0.46
1:H:602:ASP:OD1	1:H:888:HIS:HA	2.16	0.46
1:I:563:LEU:HB3	1:I:568:ALA:CB	2.45	0.46
1:I:794:ALA:CB	1:I:795:PRO:CD	2.94	0.46
1:J:664:THR:O	1:J:666:PRO:HD3	2.16	0.46
1:J:797:GLU:CD	1:K:188:ILE:O	2.54	0.46
1:K:387:VAL:HG13	1:K:387:VAL:O	2.16	0.46
1:K:460:THR:HA	1:K:465:TYR:CD2	2.51	0.46
1:L:597:ARG:HG2	1:L:597:ARG:HH11	1.81	0.46
1:L:677:THR:O	1:L:866:MET:HB2	2.15	0.46
1:L:714:TYR:O	1:L:723:LYS:N	2.49	0.46
3:N:34:GLY:CA	3:N:64:ARG:NH1	2.79	0.46
3:N:45:ARG:CG	3:N:46:THR:N	2.79	0.46
3:O:90:LEU:HD23	3:P:90:LEU:HB3	1.98	0.46
3:P:74:ILE:CG1	3:P:78:ASP:OD2	2.64	0.46
3:Q:6:ARG:O	3:Q:6:ARG:CG	2.59	0.46
3:Q:45:ARG:HG2	3:Q:46:THR:N	2.31	0.46
3:Q:78:ASP:O	3:Q:78:ASP:OD1	2.33	0.46
1:A:328:LEU:HD12	1:A:901:ARG:HH21	1.81	0.46
1:A:786:ALA:HB1	1:C:419:LEU:CD1	2.45	0.46
1:B:460:THR:HA	1:B:465:TYR:CD2	2.51	0.46
1:B:664:THR:O	1:B:666:PRO:HD3	2.16	0.46
1:C:155:THR:HG21	1:C:163:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:162:ASP:HB2	1:C:254:TYR:OH	2.16	0.46
1:C:315:LEU:HD23	1:C:531:ILE:HG21	1.98	0.46
1:C:620:PRO:O	1:C:621:ASN:HB2	2.16	0.46
1:D:109:ARG:HH21	1:D:512:LEU:HB2	1.73	0.46
1:D:664:THR:O	1:D:666:PRO:HD3	2.16	0.46
1:E:135:PHE:CE2	1:E:147:ILE:HG21	2.50	0.46
1:E:439:VAL:HG21	1:E:476:ILE:HG12	1.97	0.46
1:E:460:THR:HA	1:E:465:TYR:CD2	2.51	0.46
1:E:602:ASP:OD1	1:E:888:HIS:HA	2.16	0.46
1:F:133:THR:HB	1:F:212:GLN:NE2	2.31	0.46
1:F:162:ASP:HB2	1:F:254:TYR:OH	2.16	0.46
1:G:641:THR:HG21	1:G:672:PHE:HB3	1.98	0.46
1:H:114:LYS:HE2	1:H:264:ASP:HB2	1.98	0.46
1:J:409:SER:HB2	1:L:142:HIS:HA	1.98	0.46
1:J:436:TYR:O	1:J:440:ALA:HB3	2.15	0.46
1:J:811:ASP:CG	1:J:812:PRO:HD2	2.36	0.46
1:K:133:THR:CG2	1:K:212:GLN:HG3	2.44	0.46
1:K:371:VAL:HG22	1:K:371:VAL:O	2.16	0.46
1:K:395:GLU:H	1:K:395:GLU:CD	2.20	0.46
1:K:502:ASN:C	1:K:502:ASN:HD22	2.20	0.46
1:K:602:ASP:OD1	1:K:888:HIS:HA	2.16	0.46
1:K:888:HIS:ND1	1:K:890:PRO:HD3	2.30	0.46
1:L:563:LEU:HB3	1:L:568:ALA:CB	2.45	0.46
3:O:34:GLY:CA	3:O:64:ARG:NH1	2.79	0.46
3:O:66:PRO:O	3:O:67:GLU:OE2	2.33	0.46
3:O:104:LEU:CD2	3:P:104:LEU:CG	2.48	0.46
3:P:27:THR:OG1	3:P:28:GLY:N	2.49	0.46
3:P:45:ARG:HG2	3:P:46:THR:N	2.31	0.46
4:R:53:ARG:HH11	4:R:53:ARG:CB	2.19	0.46
1:A:208:ARG:NH1	1:A:256:GLU:CA	2.79	0.45
1:A:766:PRO:HG3	1:A:807:PRO:HG3	1.98	0.45
1:C:242:ARG:NH2	1:C:244:GLY:HA2	2.31	0.45
1:C:528:PHE:CE2	1:C:530:ALA:HB3	2.51	0.45
1:C:639:SER:O	1:C:878:LEU:N	2.50	0.45
1:C:691:TRP:CG	1:C:692:PRO:HA	2.52	0.45
1:E:242:ARG:HG3	1:E:243:THR:N	2.30	0.45
1:E:641:THR:HG21	1:E:672:PHE:HB3	1.98	0.45
1:E:691:TRP:CG	1:E:692:PRO:HA	2.51	0.45
1:F:46:ARG:HH11	1:F:46:ARG:CB	2.30	0.45
1:F:641:THR:HG21	1:F:672:PHE:HB3	1.98	0.45
1:G:142:HIS:HA	1:H:409:SER:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:432:ARG:HG2	1:I:377:MET:SD	2.56	0.45
1:G:534:LEU:HG	1:G:536:LEU:HD12	1.98	0.45
1:H:534:LEU:HG	1:H:536:LEU:HD12	1.98	0.45
1:I:248:ASN:OD1	1:I:249:PRO:HD2	2.16	0.45
1:I:439:VAL:CG2	1:I:476:ILE:HG12	2.46	0.45
1:J:121:TYR:OH	1:L:808:PRO:HG3	2.16	0.45
1:J:142:HIS:CA	1:K:409:SER:HB2	2.46	0.45
1:J:641:THR:HG21	1:J:672:PHE:HB3	1.98	0.45
1:K:664:THR:O	1:K:666:PRO:HD3	2.16	0.45
1:K:691:TRP:CG	1:K:692:PRO:HA	2.51	0.45
1:K:750:ARG:HD2	1:K:750:ARG:N	2.30	0.45
3:O:27:THR:HG23	3:O:68:ASP:CB	2.46	0.45
3:O:73:MET:O	3:O:74:ILE:CD1	2.56	0.45
3:O:90:LEU:HD23	3:P:90:LEU:HD22	0.47	0.45
3:O:90:LEU:HD11	3:P:90:LEU:HD11	1.98	0.45
1:A:597:ARG:HG2	1:A:597:ARG:HH11	1.81	0.45
1:B:783:THR:HA	1:B:803:GLN:HB2	1.98	0.45
1:B:879:PHE:O	1:B:881:VAL:HG13	2.16	0.45
1:C:109:ARG:HH21	1:C:512:LEU:HB2	1.76	0.45
1:C:331:ARG:HG2	1:C:332:ASN:N	2.30	0.45
1:C:890:PRO:HG2	1:C:891:HIS:H	1.80	0.45
1:D:73:ARG:HB3	1:D:82:THR:HG22	1.97	0.45
1:D:109:ARG:HB3	1:D:113:PHE:HB2	1.98	0.45
1:D:132:ASN:ND2	1:F:799:HIS:CE1	2.80	0.45
1:D:154:ALA:O	1:D:155:THR:CB	2.64	0.45
1:D:367:VAL:HG11	1:D:759:ILE:HD12	1.99	0.45
1:D:419:LEU:CD1	1:E:786:ALA:HB1	2.45	0.45
1:D:770:THR:HG21	1:D:816:LEU:HB2	1.97	0.45
1:E:376:GLU:HB3	1:F:436:TYR:HE2	1.81	0.45
1:F:620:PRO:O	1:F:621:ASN:HB2	2.16	0.45
1:F:691:TRP:CG	1:F:692:PRO:HA	2.52	0.45
1:F:783:THR:HA	1:F:803:GLN:HB2	1.98	0.45
1:G:142:HIS:CA	1:H:409:SER:HB2	2.46	0.45
1:G:264:ASP:HA	1:G:289:ASN:HD22	1.81	0.45
1:H:242:ARG:NH2	1:H:244:GLY:HA2	2.32	0.45
1:I:233:ASN:ND2	1:I:235:GLN:HB2	2.30	0.45
1:I:470:ILE:HG23	1:I:793:ARG:HD3	1.97	0.45
1:I:639:SER:O	1:I:878:LEU:N	2.49	0.45
1:J:241:TYR:HA	1:K:395:GLU:HA	1.97	0.45
1:J:398:ARG:HE	1:L:160:ASN:HB2	1.81	0.45
1:J:723:LYS:HE3	1:K:578:TYR:CZ	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:900:LEU:CD2	1:K:13:MET:HG3	2.44	0.45
1:K:155:THR:HG21	1:K:163:LEU:HG	1.99	0.45
1:K:783:THR:HA	1:K:803:GLN:HB2	1.99	0.45
1:L:202:ALA:O	1:L:251:THR:HA	2.17	0.45
1:L:242:ARG:NH2	1:L:244:GLY:HA2	2.31	0.45
1:L:641:THR:HG21	1:L:672:PHE:HB3	1.98	0.45
2:M:64:TYR:C	2:M:65:LEU:HD12	2.36	0.45
3:N:27:THR:OG1	3:N:28:GLY:N	2.49	0.45
3:N:89:LEU:CD1	3:O:87:MET:HE3	2.45	0.45
3:O:73:MET:SD	3:O:74:ILE:C	2.94	0.45
3:O:90:LEU:O	3:O:93:SER:OG	2.28	0.45
3:Q:34:GLY:CA	3:Q:64:ARG:NH1	2.79	0.45
4:R:186:TYR:O	4:R:187:LEU:C	2.54	0.45
1:A:109:ARG:HB3	1:A:113:PHE:HB2	1.99	0.45
1:A:127:LYS:HE2	1:C:375:ASP:O	2.16	0.45
1:A:142:HIS:CA	1:B:409:SER:HB2	2.46	0.45
1:A:154:ALA:O	1:A:155:THR:CB	2.64	0.45
1:A:401:GLN:HB2	1:A:402:GLN:H	1.51	0.45
1:A:563:LEU:HB3	1:A:568:ALA:CB	2.46	0.45
1:B:208:ARG:NH1	1:B:256:GLU:CA	2.80	0.45
1:B:264:ASP:HA	1:B:289:ASN:HD22	1.80	0.45
1:B:293:PHE:HB2	1:B:558:THR:HG23	1.98	0.45
1:B:312:LEU:HD21	1:B:325:VAL:O	2.17	0.45
1:B:376:GLU:HB3	1:C:436:TYR:HE2	1.81	0.45
1:B:641:THR:HG21	1:B:672:PHE:HB3	1.98	0.45
1:C:46:ARG:HH11	1:C:46:ARG:CB	2.29	0.45
1:C:161:ASN:O	1:C:162:ASP:CB	2.65	0.45
1:C:248:ASN:OD1	1:C:249:PRO:HD2	2.16	0.45
1:C:502:ASN:HD22	1:C:502:ASN:C	2.20	0.45
1:D:132:ASN:ND2	1:D:148:ALA:CB	2.77	0.45
1:D:190:GLY:HA2	1:F:283:SER:OG	2.15	0.45
1:D:502:ASN:C	1:D:502:ASN:HD22	2.20	0.45
1:D:515:GLY:HA2	1:F:809:HIS:O	2.16	0.45
1:D:766:PRO:HG3	1:D:807:PRO:HG3	1.98	0.45
1:D:797:GLU:CD	1:E:188:ILE:O	2.54	0.45
1:F:639:SER:O	1:F:878:LEU:N	2.49	0.45
1:G:202:ALA:O	1:G:251:THR:HA	2.16	0.45
1:G:766:PRO:HG3	1:G:807:PRO:HG3	1.99	0.45
1:G:796:ARG:HD3	1:G:796:ARG:H	1.81	0.45
1:H:627:ILE:O	1:H:627:ILE:HG13	2.16	0.45
1:H:664:THR:O	1:H:666:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:879:PHE:O	1:H:881:VAL:HG13	2.16	0.45
1:I:783:THR:HA	1:I:803:GLN:HB2	1.98	0.45
1:J:367:VAL:HG11	1:J:759:ILE:HD12	1.99	0.45
1:J:621:ASN:HD22	1:J:621:ASN:N	2.13	0.45
1:J:837:ASN:OD1	1:J:839:MET:HB2	2.16	0.45
1:K:658:TYR:HD1	3:P:27:THR:O	1.99	0.45
1:K:786:ALA:CB	1:K:800:PRO:HD3	2.47	0.45
2:M:126:PRO:HB2	2:M:129:THR:HG23	1.97	0.45
2:M:141:MET:SD	2:M:155:PHE:HZ	2.39	0.45
3:N:40:ASN:ND2	3:N:72:TYR:CE2	2.85	0.45
3:O:25:ASP:OD1	3:O:25:ASP:N	2.49	0.45
3:O:45:ARG:CG	3:O:46:THR:N	2.79	0.45
3:P:74:ILE:HG23	3:P:78:ASP:CB	2.46	0.45
4:R:33:TRP:C	4:R:35:SER:H	2.19	0.45
1:A:126:PRO:HA	1:C:423:GLU:OE2	2.16	0.45
1:A:328:LEU:HD13	2:M:102:ASN:HB2	0.80	0.45
1:B:154:ALA:O	1:B:155:THR:CB	2.64	0.45
1:B:439:VAL:HG21	1:B:476:ILE:HG12	1.97	0.45
1:B:686:ASP:OD1	1:D:908:ASN:OD1	2.33	0.45
1:C:495:ASN:HB3	1:C:498:ASN:HD22	1.79	0.45
1:C:783:THR:HA	1:C:803:GLN:HB2	1.98	0.45
1:D:534:LEU:HG	1:D:536:LEU:HD12	1.98	0.45
1:D:641:THR:HG21	1:D:672:PHE:HB3	1.98	0.45
1:D:794:ALA:CB	1:D:795:PRO:CD	2.94	0.45
1:E:371:VAL:O	1:E:371:VAL:HG22	2.16	0.45
1:E:597:ARG:HG2	1:E:597:ARG:HH11	1.81	0.45
1:F:323:ASN:HD22	1:F:324:ALA:H	1.65	0.45
1:F:371:VAL:HG22	1:F:371:VAL:O	2.16	0.45
1:G:126:PRO:HA	1:I:423:GLU:OE2	2.16	0.45
1:G:597:ARG:HG2	1:G:597:ARG:HH11	1.81	0.45
1:I:155:THR:HG21	1:I:163:LEU:HG	1.98	0.45
1:I:170:ARG:CG	1:I:171:GLN:H	2.21	0.45
1:I:323:ASN:HD22	1:I:324:ALA:H	1.65	0.45
1:I:371:VAL:O	1:I:371:VAL:HG22	2.16	0.45
1:I:502:ASN:C	1:I:502:ASN:HD22	2.20	0.45
1:J:10:TRP:CD1	4:R:16:GLN:HG2	2.51	0.45
1:J:154:ALA:O	1:J:155:THR:CB	2.64	0.45
1:J:534:LEU:HG	1:J:536:LEU:HD12	1.98	0.45
1:K:242:ARG:HH11	1:L:394:HIS:HB3	1.80	0.45
2:M:140:LYS:HE3	2:M:235:CYS:HA	1.98	0.45
2:M:454:LEU:HD11	2:M:468:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:57:ASN:HD22	3:N:59:HIS:H	1.65	0.45
3:N:97:LEU:HG	3:O:97:LEU:HD13	0.84	0.45
3:O:45:ARG:HG2	3:O:46:THR:N	2.31	0.45
3:O:90:LEU:HD23	3:P:90:LEU:CD2	1.09	0.45
1:A:285:HIS:ND1	1:A:795:PRO:HD3	2.32	0.45
1:A:294:ILE:HA	1:A:556:GLN:O	2.17	0.45
1:A:502:ASN:C	1:A:502:ASN:HD22	2.20	0.45
1:A:515:GLY:HA2	1:C:809:HIS:O	2.16	0.45
1:A:620:PRO:O	1:A:621:ASN:HB2	2.17	0.45
1:D:328:LEU:C	1:D:330:ASP:H	2.20	0.45
1:D:328:LEU:HD12	1:D:901:ARG:HH21	1.81	0.45
1:E:282:LEU:H	1:E:282:LEU:CD1	2.30	0.45
1:E:392:ARG:HD3	1:E:392:ARG:N	2.21	0.45
1:F:297:ARG:HG2	1:F:297:ARG:HH11	1.82	0.45
1:F:790:ARG:HG3	1:F:790:ARG:HH11	1.82	0.45
1:F:890:PRO:HG2	1:F:891:HIS:H	1.80	0.45
1:G:563:LEU:HB3	1:G:568:ALA:CB	2.46	0.45
1:G:790:ARG:CZ	1:H:186:LEU:HA	2.45	0.45
1:H:109:ARG:HH21	1:H:512:LEU:HD12	1.82	0.45
1:H:248:ASN:OD1	1:H:249:PRO:HD2	2.17	0.45
1:H:282:LEU:H	1:H:282:LEU:CD1	2.30	0.45
1:H:358:MET:SD	1:H:827:ARG:NH2	2.89	0.45
1:H:371:VAL:HG22	1:H:371:VAL:O	2.16	0.45
1:H:460:THR:HA	1:H:465:TYR:CD2	2.51	0.45
1:J:109:ARG:HB3	1:J:113:PHE:HB2	1.98	0.45
1:K:114:LYS:HE2	1:K:264:ASP:HB2	1.98	0.45
1:K:709:VAL:O	1:K:709:VAL:HG23	2.16	0.45
1:L:46:ARG:HH11	1:L:46:ARG:CB	2.30	0.45
1:L:132:ASN:HB3	1:L:206:VAL:CG2	2.35	0.45
1:L:170:ARG:CG	1:L:171:GLN:H	2.21	0.45
1:L:371:VAL:O	1:L:371:VAL:HG22	2.16	0.45
2:M:96:THR:CG2	2:M:97:PRO:HD2	2.47	0.45
2:M:143:ALA:CB	2:M:151:GLN:HE21	2.30	0.45
3:N:8:TYR:HA	3:N:9:VAL:HA	1.73	0.45
3:N:25:ASP:OD1	3:N:25:ASP:N	2.49	0.45
3:O:27:THR:OG1	3:O:28:GLY:N	2.49	0.45
3:O:86:ARG:HD3	3:P:87:MET:HG2	1.70	0.45
3:P:77:GLU:HA	3:P:80:LEU:HD12	1.97	0.45
3:Q:30:ASN:H	3:Q:34:GLY:N	2.08	0.45
3:Q:45:ARG:CG	3:Q:46:THR:N	2.79	0.45
1:A:142:HIS:HA	1:B:409:SER:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:750:ARG:N	1:B:750:ARG:HD2	2.30	0.45
1:C:154:ALA:O	1:C:155:THR:CB	2.64	0.45
1:C:297:ARG:HG2	1:C:297:ARG:HH11	1.82	0.45
1:C:597:ARG:HG2	1:C:597:ARG:HH11	1.81	0.45
1:D:32:ALA:HB2	1:D:41:ILE:HD11	1.98	0.45
1:D:121:TYR:OH	1:F:808:PRO:HG3	2.16	0.45
1:D:409:SER:HB2	1:F:142:HIS:HA	1.98	0.45
1:E:208:ARG:NH1	1:E:256:GLU:CA	2.79	0.45
1:E:312:LEU:HD21	1:E:325:VAL:O	2.17	0.45
1:E:789:PHE:HD1	1:E:791:PHE:N	2.09	0.45
1:E:879:PHE:O	1:E:881:VAL:HG13	2.16	0.45
1:F:242:ARG:HG3	1:F:243:THR:N	2.32	0.45
1:F:460:THR:HA	1:F:465:TYR:CD2	2.51	0.45
1:G:154:ALA:O	1:G:155:THR:CB	2.64	0.45
1:G:233:ASN:ND2	1:G:235:GLN:HB2	2.30	0.45
1:G:687:SER:O	1:L:632:TRP:CE2	2.65	0.45
1:G:709:VAL:HG23	1:G:709:VAL:O	2.17	0.45
1:G:810:TRP:HZ2	1:H:116:TYR:HH	1.63	0.45
1:H:347:ARG:HH21	1:H:356:GLN:CG	2.29	0.45
1:H:360:SER:H	1:H:502:ASN:HD21	1.65	0.45
1:H:620:PRO:O	1:H:621:ASN:HB2	2.16	0.45
1:I:46:ARG:HH11	1:I:46:ARG:CB	2.30	0.45
1:I:360:SER:H	1:I:502:ASN:HD21	1.65	0.45
1:I:534:LEU:HG	1:I:536:LEU:HD12	1.97	0.45
1:J:208:ARG:HH12	1:J:256:GLU:CA	2.23	0.45
1:J:294:ILE:HA	1:J:556:GLN:O	2.17	0.45
1:J:436:TYR:HE2	1:L:376:GLU:HB3	1.80	0.45
1:K:142:HIS:HB3	1:L:409:SER:CB	2.47	0.45
1:K:312:LEU:HD21	1:K:325:VAL:O	2.17	0.45
1:K:358:MET:SD	1:K:827:ARG:NH2	2.89	0.45
1:K:635:PHE:N	1:K:635:PHE:CD1	2.82	0.45
1:K:641:THR:HG21	1:K:672:PHE:HB3	1.98	0.45
1:L:297:ARG:HG2	1:L:297:ARG:HH11	1.82	0.45
1:L:328:LEU:C	1:L:330:ASP:H	2.19	0.45
1:L:536:LEU:HA	1:L:889:GLN:HE22	1.81	0.45
2:M:445:ARG:HG3	2:M:445:ARG:O	2.17	0.45
3:N:35:VAL:CG1	3:N:64:ARG:H	2.29	0.45
3:N:103:ARG:HH12	3:O:105:ARG:HH21	1.65	0.45
3:O:56:ASP:OD1	3:O:56:ASP:N	2.50	0.45
1:A:328:LEU:C	1:A:330:ASP:H	2.20	0.45
1:A:783:THR:HG22	1:A:803:GLN:NE2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:HIS:HB3	1:C:409:SER:CB	2.47	0.45
1:B:307:ASN:HD21	1:B:333:THR:N	1.98	0.45
1:B:502:ASN:C	1:B:502:ASN:HD22	2.20	0.45
1:B:597:ARG:HH11	1:B:597:ARG:HG2	1.81	0.45
1:B:786:ALA:CB	1:B:800:PRO:HD3	2.47	0.45
1:B:857:ALA:HB2	1:J:318:GLN:O	2.17	0.45
1:C:396:VAL:CG1	1:C:403:TRP:HD1	2.22	0.45
1:C:537:LEU:HB3	1:C:538:PRO:HD2	1.99	0.45
1:D:294:ILE:HA	1:D:556:GLN:O	2.17	0.45
1:D:804:LEU:HD12	1:E:229:ILE:HG23	1.99	0.45
1:E:387:VAL:HG13	1:E:387:VAL:O	2.16	0.45
1:E:888:HIS:HE2	4:R:30:ARG:HH22	1.33	0.45
1:F:794:ALA:CB	1:F:795:PRO:CD	2.94	0.45
1:G:294:ILE:HA	1:G:556:GLN:O	2.17	0.45
1:G:328:LEU:C	1:G:330:ASP:H	2.20	0.45
1:G:813:ARG:HH22	1:H:261:LEU:HB2	1.80	0.45
1:H:312:LEU:HD21	1:H:325:VAL:O	2.17	0.45
1:H:768:PRO:CG	3:Q:59:HIS:N	2.79	0.45
1:I:132:ASN:ND2	1:I:148:ALA:CB	2.77	0.45
1:I:282:LEU:H	1:I:282:LEU:CD1	2.28	0.45
1:I:328:LEU:C	1:I:330:ASP:H	2.19	0.45
1:I:641:THR:CG2	1:I:642:ARG:H	2.06	0.45
1:J:436:TYR:OH	1:J:441:LEU:HD21	2.17	0.45
1:K:242:ARG:NH2	1:K:244:GLY:HA2	2.32	0.45
1:K:769:ALA:HB1	3:O:56:ASP:HB3	1.98	0.45
1:K:797:GLU:CD	1:L:188:ILE:O	2.54	0.45
1:L:713:GLY:C	1:L:715:ASN:H	2.20	0.45
1:L:809:HIS:HA	1:L:814:HIS:NE2	2.32	0.45
2:M:377:GLU:HG2	2:M:378:LEU:N	2.31	0.45
3:O:57:ASN:HD22	3:O:59:HIS:H	1.65	0.45
3:P:34:GLY:CA	3:P:64:ARG:NH1	2.79	0.45
3:P:35:VAL:CG1	3:P:64:ARG:H	2.29	0.45
3:P:45:ARG:CG	3:P:46:THR:N	2.79	0.45
3:P:76:VAL:HB	3:P:80:LEU:HD11	1.99	0.45
3:P:103:ARG:O	3:P:106:THR:OG1	2.27	0.45
1:A:264:ASP:HA	1:A:289:ASN:HD22	1.81	0.45
1:B:242:ARG:NH2	1:B:244:GLY:HA2	2.32	0.45
1:B:691:TRP:CG	1:B:692:PRO:HA	2.51	0.45
1:B:799:HIS:CE1	1:C:132:ASN:ND2	2.80	0.45
1:C:714:TYR:O	1:C:723:LYS:N	2.49	0.45
1:D:436:TYR:OH	1:D:441:LEU:HD21	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:837:ASN:OD1	1:D:839:MET:HB2	2.16	0.45
1:F:155:THR:HG21	1:F:163:LEU:CD1	2.47	0.45
1:F:537:LEU:HB3	1:F:538:PRO:HD2	1.99	0.45
1:G:436:TYR:OH	1:G:441:LEU:HD21	2.17	0.45
1:G:502:ASN:C	1:G:502:ASN:HD22	2.20	0.45
1:G:794:ALA:CB	1:G:795:PRO:HD2	2.36	0.45
1:H:328:LEU:C	1:H:330:ASP:H	2.19	0.45
1:H:709:VAL:O	1:H:709:VAL:HG23	2.16	0.45
1:I:109:ARG:HB3	1:I:113:PHE:HB2	1.99	0.45
1:I:162:ASP:HB2	1:I:254:TYR:OH	2.16	0.45
1:I:242:ARG:HG3	1:I:243:THR:N	2.32	0.45
1:J:7:LEU:CD2	4:R:14:GLN:C	2.84	0.45
1:J:132:ASN:HB3	1:J:206:VAL:CG2	2.34	0.45
1:J:161:ASN:O	1:J:162:ASP:CB	2.65	0.45
1:J:630:ARG:HB3	1:J:859:ALA:HA	1.97	0.45
1:J:794:ALA:CB	1:J:795:PRO:CD	2.94	0.45
1:K:202:ALA:O	1:K:251:THR:HA	2.17	0.45
1:K:248:ASN:OD1	1:K:249:PRO:HD2	2.17	0.45
1:K:282:LEU:H	1:K:282:LEU:CD1	2.30	0.45
1:L:133:THR:CG2	1:L:212:GLN:HG3	2.43	0.45
1:L:323:ASN:HD22	1:L:324:ALA:H	1.65	0.45
1:L:618:ILE:HG12	1:L:625:LEU:HD11	1.99	0.45
1:L:789:PHE:HE1	1:L:791:PHE:CD2	2.33	0.45
2:M:211:GLN:CG	2:M:212:THR:N	2.79	0.45
3:N:87:MET:CE	3:P:89:LEU:HD12	2.46	0.45
3:Q:27:THR:OG1	3:Q:28:GLY:N	2.49	0.45
3:Q:40:ASN:ND2	3:Q:72:TYR:CE2	2.85	0.45
1:A:148:ALA:HB1	1:C:799:HIS:HE1	1.82	0.45
1:A:161:ASN:O	1:A:162:ASP:CB	2.65	0.45
1:A:170:ARG:CG	1:A:171:GLN:H	2.22	0.45
1:A:347:ARG:HH21	1:A:356:GLN:CG	2.27	0.45
1:B:132:ASN:ND2	1:B:148:ALA:HB1	2.32	0.45
1:B:192:THR:HG23	1:B:193:ALA:N	2.32	0.45
1:B:202:ALA:O	1:B:251:THR:HA	2.17	0.45
1:B:809:HIS:O	1:C:515:GLY:HA2	2.17	0.45
1:B:890:PRO:HG2	1:B:891:HIS:H	1.82	0.45
1:C:202:ALA:O	1:C:251:THR:HA	2.17	0.45
1:D:264:ASP:HA	1:D:289:ASN:HD22	1.81	0.45
1:D:285:HIS:ND1	1:D:795:PRO:HD3	2.32	0.45
1:D:533:ASN:HB2	1:D:605:PHE:CE2	2.52	0.45
1:D:621:ASN:N	1:D:621:ASN:HD22	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:242:ARG:NH2	1:E:244:GLY:HA2	2.32	0.45
1:E:294:ILE:HA	1:E:556:GLN:O	2.17	0.45
1:E:534:LEU:HG	1:E:536:LEU:HD12	1.98	0.45
1:F:315:LEU:HD23	1:F:531:ILE:HG21	1.98	0.45
1:F:360:SER:H	1:F:502:ASN:HD21	1.65	0.45
1:F:713:GLY:C	1:F:715:ASN:H	2.20	0.45
1:G:790:ARG:CZ	1:H:186:LEU:HD23	2.47	0.45
1:H:192:THR:HG23	1:H:193:ALA:N	2.31	0.45
1:H:641:THR:HG21	1:H:672:PHE:HB3	1.98	0.45
1:H:691:TRP:CG	1:H:692:PRO:HA	2.51	0.45
1:H:786:ALA:CB	1:H:800:PRO:HD3	2.47	0.45
1:I:714:TYR:O	1:I:723:LYS:N	2.49	0.45
1:J:109:ARG:HH21	1:J:512:LEU:HB2	1.73	0.45
1:J:282:LEU:H	1:J:282:LEU:CD1	2.28	0.45
1:J:328:LEU:HD12	1:J:901:ARG:HH21	1.81	0.45
1:J:597:ARG:HH11	1:J:597:ARG:HG2	1.81	0.45
1:J:620:PRO:O	1:J:621:ASN:HB2	2.17	0.45
1:K:192:THR:HG23	1:K:193:ALA:N	2.32	0.45
1:K:627:ILE:HG13	1:K:627:ILE:O	2.16	0.45
1:L:161:ASN:O	1:L:162:ASP:CB	2.65	0.45
1:L:537:LEU:HB3	1:L:538:PRO:HD2	1.99	0.45
1:L:799:HIS:CD2	1:L:800:PRO:HD2	2.43	0.45
4:R:188:ASN:HB2	4:R:189:PRO:HD2	1.98	0.45
1:A:121:TYR:OH	1:C:808:PRO:HG3	2.16	0.45
1:A:242:ARG:HG3	1:A:243:THR:N	2.32	0.45
1:A:419:LEU:CD1	1:B:786:ALA:HB1	2.46	0.45
1:A:790:ARG:CZ	1:B:186:LEU:HD23	2.47	0.45
1:A:885:ALA:HA	1:B:13:MET:HE1	1.99	0.45
1:B:294:ILE:HA	1:B:556:GLN:O	2.17	0.45
1:B:387:VAL:HG13	1:B:387:VAL:O	2.16	0.45
1:B:534:LEU:HG	1:B:536:LEU:HD12	1.99	0.45
1:B:639:SER:O	1:B:878:LEU:N	2.51	0.45
1:C:109:ARG:HB3	1:C:113:PHE:HB2	1.99	0.45
1:C:790:ARG:HH11	1:C:790:ARG:HG3	1.82	0.45
1:D:192:THR:HG23	1:D:193:ALA:N	2.32	0.45
1:D:783:THR:HG22	1:D:803:GLN:NE2	2.32	0.45
1:D:796:ARG:HD3	1:D:796:ARG:H	1.81	0.45
1:E:132:ASN:HB3	1:E:206:VAL:CG2	2.34	0.45
1:E:248:ASN:OD1	1:E:249:PRO:HD2	2.17	0.45
1:E:786:ALA:CB	1:E:800:PRO:HD3	2.47	0.45
1:E:803:GLN:CD	1:F:121:TYR:HA	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:809:HIS:HA	1:E:814:HIS:NE2	2.32	0.45
1:F:155:THR:HG21	1:F:163:LEU:HG	1.98	0.45
1:F:809:HIS:HA	1:F:814:HIS:NE2	2.32	0.45
1:G:387:VAL:O	1:G:387:VAL:HG13	2.17	0.45
1:G:635:PHE:N	1:G:635:PHE:CD1	2.81	0.45
1:G:783:THR:HA	1:G:803:GLN:CB	2.47	0.45
1:H:155:THR:HG21	1:H:163:LEU:HG	1.99	0.45
1:H:639:SER:O	1:H:878:LEU:N	2.50	0.45
1:I:202:ALA:O	1:I:251:THR:HA	2.17	0.45
1:I:713:GLY:C	1:I:715:ASN:H	2.20	0.45
1:J:388:GLN:CG	1:J:420:PRO:HG3	2.45	0.45
1:J:618:ILE:HG12	1:J:625:LEU:HD11	1.99	0.45
1:L:155:THR:HG21	1:L:163:LEU:HG	1.98	0.45
1:L:396:VAL:CG1	1:L:403:TRP:HD1	2.22	0.45
1:L:401:GLN:HB2	1:L:402:GLN:H	1.51	0.45
1:L:639:SER:O	1:L:878:LEU:N	2.50	0.45
1:L:691:TRP:CG	1:L:692:PRO:HA	2.52	0.45
2:M:63:ILE:O	2:M:63:ILE:HG13	2.16	0.45
2:M:70:SER:HB2	2:M:77:ASN:ND2	2.32	0.45
2:M:136:SER:HA	2:M:157:LEU:O	2.16	0.45
2:M:294:PRO:HG3	2:M:412:GLU:OE1	2.17	0.45
3:N:56:ASP:OD1	3:N:56:ASP:N	2.50	0.45
3:O:39:PRO:HA	3:O:44:HIS:HD2	1.78	0.45
4:R:44:VAL:HG13	4:R:45:ASN:N	2.31	0.45
1:A:192:THR:HG23	1:A:193:ALA:N	2.33	0.44
1:A:293:PHE:HB2	1:A:558:THR:HG23	1.99	0.44
1:A:324:ALA:O	1:A:897:VAL:HG11	2.18	0.44
1:A:709:VAL:HG23	1:A:709:VAL:O	2.17	0.44
1:B:635:PHE:N	1:B:635:PHE:CD1	2.82	0.44
1:C:67:ARG:HH22	1:D:81:LYS:HZ1	1.46	0.44
1:C:618:ILE:HG12	1:C:625:LEU:HD11	1.99	0.44
1:D:208:ARG:NH2	1:D:233:ASN:ND2	2.65	0.44
1:D:387:VAL:O	1:D:387:VAL:HG13	2.16	0.44
1:D:597:ARG:HG2	1:D:597:ARG:HH11	1.81	0.44
1:D:620:PRO:O	1:D:621:ASN:HB2	2.17	0.44
1:D:790:ARG:CZ	1:E:186:LEU:HD23	2.47	0.44
1:E:154:ALA:O	1:E:155:THR:CB	2.64	0.44
1:E:502:ASN:HD22	1:E:502:ASN:C	2.20	0.44
1:E:809:HIS:O	1:F:515:GLY:HA2	2.17	0.44
1:F:334:GLU:HG3	1:F:668:LEU:HD22	1.99	0.44
1:G:109:ARG:HH21	1:G:512:LEU:HB2	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:396:VAL:CG1	1:G:403:TRP:HD1	2.23	0.44
1:H:142:HIS:HB3	1:I:409:SER:CB	2.47	0.44
1:I:809:HIS:HA	1:I:814:HIS:NE2	2.32	0.44
1:J:67:ARG:HH11	1:J:576:ASN:ND2	2.12	0.44
1:J:122:ASN:OD1	1:L:785:PRO:HD2	2.18	0.44
1:K:132:ASN:ND2	1:K:148:ALA:HB1	2.32	0.44
1:K:160:ASN:HB2	1:L:398:ARG:HE	1.82	0.44
1:K:803:GLN:CD	1:L:121:TYR:HA	2.38	0.44
1:L:155:THR:HG21	1:L:163:LEU:CD1	2.47	0.44
1:L:315:LEU:HD23	1:L:531:ILE:HG21	1.98	0.44
1:L:401:GLN:NE2	1:L:404:GLN:HB2	2.32	0.44
2:M:212:THR:O	2:M:213:GLN:HB3	2.17	0.44
2:M:314:TYR:OH	2:M:416:LEU:HD11	2.17	0.44
3:N:25:ASP:O	3:N:69:GLN:HA	2.17	0.44
3:O:40:ASN:ND2	3:O:72:TYR:CE2	2.85	0.44
3:P:32:LEU:HD22	3:P:33:GLY:H	1.83	0.44
3:Q:74:ILE:HG23	3:Q:78:ASP:CB	2.46	0.44
4:R:17:MET:O	4:R:171:GLY:HA3	2.18	0.44
1:A:133:THR:HB	1:A:212:GLN:NE2	2.33	0.44
1:A:242:ARG:HH11	1:B:396:VAL:HG23	1.83	0.44
1:A:328:LEU:CD1	2:M:102:ASN:HA	2.43	0.44
1:A:767:ASN:CB	1:A:770:THR:HG23	2.46	0.44
1:A:814:HIS:CE1	1:B:516:ARG:HB3	2.52	0.44
1:C:38:TYR:CD1	1:C:38:TYR:N	2.80	0.44
1:D:161:ASN:O	1:D:162:ASP:CB	2.65	0.44
1:D:814:HIS:CE1	1:E:516:ARG:HB3	2.52	0.44
1:E:132:ASN:ND2	1:E:148:ALA:HB1	2.32	0.44
1:E:142:HIS:HB3	1:F:409:SER:CB	2.47	0.44
1:E:161:ASN:O	1:E:162:ASP:CB	2.66	0.44
1:E:366:ARG:HH11	1:E:496:PRO:HB3	1.83	0.44
1:G:109:ARG:HB3	1:G:113:PHE:HB2	1.99	0.44
1:G:222:PRO:CB	1:I:804:LEU:HD11	2.36	0.44
1:G:409:SER:HB2	1:I:142:HIS:HA	1.98	0.44
1:H:208:ARG:HH12	1:H:256:GLU:CA	2.26	0.44
1:H:395:GLU:H	1:H:395:GLU:CD	2.20	0.44
1:H:597:ARG:HG2	1:H:597:ARG:HH11	1.81	0.44
1:H:803:GLN:CD	1:I:121:TYR:HA	2.38	0.44
1:I:401:GLN:NE2	1:I:404:GLN:HB2	2.32	0.44
1:I:610:SER:HB3	1:I:881:VAL:O	2.17	0.44
1:I:691:TRP:CG	1:I:692:PRO:HA	2.52	0.44
1:J:293:PHE:HB2	1:J:558:THR:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:328:LEU:C	1:J:330:ASP:H	2.20	0.44
1:K:294:ILE:HA	1:K:556:GLN:O	2.17	0.44
1:K:720:ASN:OD1	1:K:822:LYS:HA	2.18	0.44
1:L:790:ARG:HG3	1:L:790:ARG:HH11	1.82	0.44
1:L:817:ARG:HB2	1:L:818:ASP:H	1.70	0.44
3:N:27:THR:HG23	3:N:68:ASP:CB	2.46	0.44
1:A:323:ASN:HD22	1:A:324:ALA:H	1.66	0.44
1:A:387:VAL:O	1:A:387:VAL:HG13	2.16	0.44
1:A:537:LEU:HB3	1:A:538:PRO:HD2	2.00	0.44
1:A:804:LEU:HD12	1:B:229:ILE:HG23	1.99	0.44
1:B:155:THR:HG21	1:B:163:LEU:HG	1.99	0.44
1:B:160:ASN:HB2	1:C:398:ARG:HE	1.83	0.44
1:C:155:THR:HG21	1:C:163:LEU:CD1	2.47	0.44
1:C:323:ASN:HD22	1:C:324:ALA:H	1.65	0.44
1:E:114:LYS:HE2	1:E:264:ASP:HB2	1.98	0.44
1:E:192:THR:HG23	1:E:193:ALA:N	2.32	0.44
1:E:328:LEU:C	1:E:330:ASP:H	2.18	0.44
1:E:709:VAL:HG23	1:E:709:VAL:O	2.16	0.44
1:E:767:ASN:CB	1:E:770:THR:HG23	2.44	0.44
1:F:109:ARG:HB3	1:F:113:PHE:HB2	1.99	0.44
1:F:192:THR:HG23	1:F:193:ALA:N	2.32	0.44
1:F:233:ASN:ND2	1:F:235:GLN:HB2	2.30	0.44
1:F:264:ASP:HA	1:F:289:ASN:HD22	1.82	0.44
1:F:602:ASP:OD1	1:F:888:HIS:HA	2.17	0.44
1:F:621:ASN:N	1:F:621:ASN:HD22	2.16	0.44
1:F:635:PHE:N	1:F:635:PHE:CD1	2.81	0.44
1:G:208:ARG:NH2	1:G:233:ASN:ND2	2.65	0.44
1:G:324:ALA:O	1:G:897:VAL:HG11	2.18	0.44
1:G:761:MET:HE3	1:G:824:LEU:HD13	1.99	0.44
1:G:783:THR:HG22	1:G:803:GLN:NE2	2.32	0.44
1:H:143:PRO:HB2	1:I:408:ASN:HD22	1.83	0.44
1:H:493:ASN:ND2	3:Q:45:ARG:HH12	1.96	0.44
1:I:133:THR:HB	1:I:212:GLN:NE2	2.31	0.44
1:I:790:ARG:HG3	1:I:790:ARG:HH11	1.82	0.44
1:J:142:HIS:HA	1:K:409:SER:HB2	1.98	0.44
1:J:285:HIS:ND1	1:J:795:PRO:HD3	2.32	0.44
1:J:776:LEU:HD23	1:J:806:LEU:H	1.83	0.44
1:J:783:THR:HG22	1:J:803:GLN:NE2	2.32	0.44
1:K:376:GLU:HB3	1:L:436:TYR:HE2	1.81	0.44
1:K:597:ARG:HG2	1:K:597:ARG:HH11	1.81	0.44
1:K:809:HIS:HA	1:K:814:HIS:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:602:ASP:OD1	1:L:888:HIS:HA	2.17	0.44
1:L:783:THR:HA	1:L:803:GLN:HB2	1.98	0.44
2:M:350:TRP:CE3	2:M:454:LEU:HD21	2.51	0.44
3:O:67:GLU:HB3	3:O:68:ASP:CB	2.34	0.44
3:O:69:GLN:CG	3:P:4:GLU:N	2.81	0.44
3:O:104:LEU:HG	3:P:104:LEU:CD1	2.33	0.44
3:P:40:ASN:ND2	3:P:72:TYR:CE2	2.85	0.44
3:Q:27:THR:HG23	3:Q:68:ASP:CB	2.46	0.44
1:B:109:ARG:HH21	1:B:512:LEU:HD12	1.82	0.44
1:B:803:GLN:CD	1:C:121:TYR:HA	2.38	0.44
1:C:602:ASP:OD1	1:C:888:HIS:HA	2.17	0.44
1:C:651:LEU:CD1	1:C:667:TYR:HE2	2.30	0.44
1:D:229:ILE:HG23	1:F:804:LEU:HD12	2.00	0.44
1:D:242:ARG:HH11	1:E:396:VAL:HG23	1.82	0.44
1:D:618:ILE:HG12	1:D:625:LEU:HD11	1.99	0.44
1:D:709:VAL:HG23	1:D:709:VAL:O	2.17	0.44
1:E:720:ASN:OD1	1:E:822:LYS:HA	2.18	0.44
1:G:61:SER:HA	1:I:694:ASN:HB3	1.99	0.44
1:G:133:THR:HB	1:G:212:GLN:NE2	2.33	0.44
1:G:328:LEU:HD12	1:G:901:ARG:HH21	1.82	0.44
1:G:332:ASN:N	1:G:613:ASN:HD21	2.16	0.44
1:I:264:ASP:HA	1:I:289:ASN:HD22	1.82	0.44
1:I:537:LEU:HB3	1:I:538:PRO:HD2	1.99	0.44
1:I:641:THR:HG21	1:I:672:PHE:HB3	1.98	0.44
1:J:208:ARG:NH1	1:J:256:GLU:CA	2.79	0.44
1:J:242:ARG:HH11	1:K:396:VAL:HG23	1.82	0.44
1:J:804:LEU:HD11	1:K:222:PRO:CB	2.33	0.44
1:K:534:LEU:HG	1:K:536:LEU:HD12	1.98	0.44
1:K:710:ASP:OD1	3:O:52:GLU:CD	2.55	0.44
1:L:396:VAL:HG22	1:L:405:ASN:CA	2.43	0.44
3:N:36:VAL:O	3:N:36:VAL:HG23	2.17	0.44
3:N:65:ARG:NH1	3:N:65:ARG:C	2.65	0.44
3:O:25:ASP:O	3:O:69:GLN:HA	2.17	0.44
3:O:35:VAL:CG1	3:O:64:ARG:H	2.29	0.44
4:R:203:ARG:HG3	4:R:204:HIS:N	2.33	0.44
1:A:156:ILE:CD1	1:A:164:GLN:HE21	2.30	0.44
1:A:208:ARG:NH2	1:A:233:ASN:ND2	2.65	0.44
1:A:776:LEU:HD23	1:A:806:LEU:H	1.83	0.44
1:B:282:LEU:H	1:B:282:LEU:CD1	2.29	0.44
1:B:367:VAL:HG11	1:B:759:ILE:HD12	2.00	0.44
1:B:401:GLN:NE2	1:B:404:GLN:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:618:ILE:HG12	1:B:625:LEU:HD11	2.00	0.44
1:B:809:HIS:HA	1:B:814:HIS:NE2	2.32	0.44
1:C:324:ALA:O	1:C:897:VAL:HG11	2.18	0.44
1:C:388:GLN:CG	1:C:420:PRO:HG3	2.46	0.44
1:C:401:GLN:NE2	1:C:404:GLN:HB2	2.33	0.44
1:C:776:LEU:HD23	1:C:806:LEU:H	1.83	0.44
1:D:371:VAL:O	1:D:371:VAL:HG22	2.18	0.44
1:D:630:ARG:HG2	1:D:630:ARG:NH1	2.33	0.44
1:D:684:GLN:NE2	1:D:687:SER:HA	2.33	0.44
1:E:606:ASN:HB3	1:E:884:VAL:HG22	2.00	0.44
1:F:161:ASN:O	1:F:162:ASP:CB	2.65	0.44
1:F:533:ASN:HB2	1:F:605:PHE:CE2	2.50	0.44
1:G:156:ILE:CD1	1:G:164:GLN:HE21	2.30	0.44
1:G:367:VAL:HG11	1:G:759:ILE:HD12	1.99	0.44
1:H:332:ASN:N	1:H:613:ASN:HD21	2.16	0.44
1:H:367:VAL:HG11	1:H:759:ILE:HD12	2.00	0.44
1:H:677:THR:O	1:H:866:MET:HB2	2.18	0.44
1:I:208:ARG:NH2	1:I:233:ASN:ND2	2.66	0.44
1:J:61:SER:HA	1:L:694:ASN:HB3	1.99	0.44
1:J:602:ASP:OD1	1:J:888:HIS:HA	2.18	0.44
1:K:241:TYR:HD2	1:L:393:SER:HG	1.62	0.44
1:K:396:VAL:CG1	1:K:403:TRP:HD1	2.23	0.44
1:K:817:ARG:HB2	1:K:818:ASP:H	1.70	0.44
1:L:651:LEU:CD1	1:L:667:TYR:HE2	2.30	0.44
2:M:247:LEU:HD13	2:M:341:VAL:HA	2.00	0.44
3:N:4:GLU:CB	3:N:6:ARG:NE	2.69	0.44
3:P:17:PRO:CG	3:P:22:SER:OG	2.42	0.44
3:P:36:VAL:HG23	3:P:36:VAL:O	2.17	0.44
3:P:75:LEU:HD23	3:P:77:GLU:CD	2.38	0.44
3:P:75:LEU:HD21	3:P:76:VAL:HG23	2.00	0.44
3:Q:41:SER:HG	3:Q:72:TYR:HE2	1.65	0.44
1:A:122:ASN:OD1	1:C:785:PRO:HD2	2.17	0.44
1:A:639:SER:O	1:A:878:LEU:N	2.51	0.44
1:B:142:HIS:HB3	1:C:409:SER:HB2	2.00	0.44
1:B:161:ASN:O	1:B:162:ASP:CB	2.66	0.44
1:B:698:LEU:HD13	1:B:714:TYR:CE1	2.53	0.44
1:B:776:LEU:HD23	1:B:806:LEU:H	1.83	0.44
1:C:334:GLU:HG3	1:C:668:LEU:HD22	1.99	0.44
1:C:799:HIS:HD2	1:C:800:PRO:CD	2.25	0.44
1:D:677:THR:O	1:D:866:MET:HB2	2.18	0.44
1:E:160:ASN:HB2	1:F:398:ARG:HE	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:274:ALA:O	1:E:275:ASP:HB3	2.18	0.44
1:E:639:SER:O	1:E:878:LEU:N	2.50	0.44
1:E:776:LEU:HD23	1:E:806:LEU:H	1.83	0.44
1:F:202:ALA:O	1:F:251:THR:HA	2.17	0.44
1:G:122:ASN:OD1	1:I:785:PRO:HD2	2.17	0.44
1:G:285:HIS:ND1	1:G:795:PRO:HD3	2.32	0.44
1:G:323:ASN:HD22	1:G:324:ALA:H	1.66	0.44
1:G:618:ILE:HG12	1:G:625:LEU:HD11	2.00	0.44
1:G:803:GLN:CD	1:H:121:TYR:HA	2.38	0.44
1:H:366:ARG:HH11	1:H:496:PRO:HB3	1.82	0.44
1:I:651:LEU:CD1	1:I:667:TYR:HE2	2.30	0.44
1:J:156:ILE:CD1	1:J:164:GLN:HE21	2.30	0.44
1:J:208:ARG:NH2	1:J:233:ASN:ND2	2.65	0.44
1:J:229:ILE:HG23	1:L:804:LEU:HD12	2.00	0.44
1:J:323:ASN:HD22	1:J:324:ALA:H	1.65	0.44
1:J:419:LEU:CD1	1:K:786:ALA:HB1	2.45	0.44
1:J:790:ARG:CZ	1:K:186:LEU:HD23	2.47	0.44
1:J:814:HIS:CE1	1:K:516:ARG:HB3	2.52	0.44
1:K:332:ASN:N	1:K:613:ASN:HD21	2.16	0.44
1:K:401:GLN:NE2	1:K:404:GLN:HB2	2.33	0.44
1:K:884:VAL:HG12	1:K:885:ALA:N	2.33	0.44
1:L:621:ASN:HD22	1:L:621:ASN:N	2.16	0.44
2:M:199:ILE:HG23	2:M:228:ASP:O	2.17	0.44
2:M:455:THR:CG2	2:M:459:ARG:HA	2.48	0.44
1:A:78:TYR:OH	2:M:79:GLN:CG	2.65	0.44
1:A:367:VAL:HG11	1:A:759:ILE:HD12	1.99	0.44
1:A:618:ILE:HG12	1:A:625:LEU:HD11	1.99	0.44
1:A:780:ASN:ND2	1:B:226:HIS:O	2.51	0.44
1:A:803:GLN:CD	1:B:121:TYR:HA	2.38	0.44
1:B:133:THR:CG2	1:B:212:GLN:HG3	2.44	0.44
1:B:366:ARG:HH11	1:B:496:PRO:HB3	1.82	0.44
1:B:804:LEU:HD12	1:C:229:ILE:HG23	2.00	0.44
1:C:635:PHE:HB2	1:C:880:GLU:O	2.18	0.44
1:C:713:GLY:C	1:C:715:ASN:H	2.20	0.44
1:D:148:ALA:HB1	1:F:799:HIS:HE1	1.82	0.44
1:D:156:ILE:CD1	1:D:164:GLN:HE21	2.30	0.44
1:D:602:ASP:OD1	1:D:888:HIS:HA	2.18	0.44
1:D:639:SER:O	1:D:878:LEU:N	2.51	0.44
1:D:784:THR:OG1	1:E:122:ASN:HA	2.18	0.44
1:E:143:PRO:HB2	1:F:408:ASN:HD22	1.82	0.44
1:E:315:LEU:HD23	1:E:531:ILE:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:537:LEU:HB3	1:E:538:PRO:HD2	2.00	0.44
1:G:804:LEU:HD12	1:H:229:ILE:HG23	1.99	0.44
1:H:142:HIS:HB3	1:I:409:SER:HB2	2.00	0.44
1:H:315:LEU:HD23	1:H:531:ILE:HG21	2.00	0.44
1:H:776:LEU:HD23	1:H:806:LEU:H	1.83	0.44
1:H:783:THR:HA	1:H:803:GLN:HB2	1.99	0.44
1:H:789:PHE:HE1	1:H:791:PHE:CD2	2.35	0.44
1:H:809:HIS:HA	1:H:814:HIS:NE2	2.32	0.44
1:I:315:LEU:HD23	1:I:531:ILE:HG21	1.99	0.44
1:I:324:ALA:O	1:I:897:VAL:HG11	2.18	0.44
1:J:10:TRP:CZ3	4:R:17:MET:HG3	2.53	0.44
1:J:396:VAL:CG1	1:J:403:TRP:HD1	2.23	0.44
1:J:409:SER:HB2	1:L:142:HIS:CA	2.48	0.44
1:K:143:PRO:HB2	1:L:408:ASN:HD22	1.83	0.44
1:K:161:ASN:O	1:K:162:ASP:CB	2.66	0.44
1:K:208:ARG:NH1	1:K:256:GLU:CA	2.79	0.44
1:K:618:ILE:HG12	1:K:625:LEU:HD11	2.00	0.44
1:K:639:SER:O	1:K:878:LEU:N	2.50	0.44
1:K:799:HIS:CE1	1:L:132:ASN:ND2	2.80	0.44
1:L:334:GLU:HG3	1:L:668:LEU:HD22	1.99	0.44
1:L:360:SER:H	1:L:502:ASN:HD21	1.65	0.44
1:L:794:ALA:CB	1:L:795:PRO:CD	2.94	0.44
2:M:62:LYS:HD3	2:M:64:TYR:OH	2.17	0.44
2:M:406:VAL:O	2:M:409:ARG:HG3	2.17	0.44
3:N:97:LEU:HD13	3:P:97:LEU:CD2	2.35	0.44
3:O:32:LEU:HD22	3:O:33:GLY:H	1.82	0.44
3:O:75:LEU:HD21	3:O:76:VAL:HG23	2.00	0.44
3:P:4:GLU:CB	3:P:6:ARG:NE	2.69	0.44
1:A:606:ASN:HB3	1:A:884:VAL:HG22	2.00	0.44
1:B:709:VAL:HG23	1:B:709:VAL:O	2.16	0.44
1:C:208:ARG:NH2	1:C:233:ASN:ND2	2.66	0.44
1:C:360:SER:H	1:C:502:ASN:HD21	1.65	0.44
1:C:610:SER:HB3	1:C:881:VAL:O	2.17	0.44
1:C:809:HIS:HA	1:C:814:HIS:NE2	2.32	0.44
1:C:817:ARG:N	1:C:817:ARG:NE	2.54	0.44
1:D:122:ASN:OD1	1:F:785:PRO:HD2	2.17	0.44
1:D:324:ALA:O	1:D:897:VAL:HG11	2.17	0.44
1:D:780:ASN:ND2	1:E:226:HIS:O	2.51	0.44
1:D:789:PHE:HE1	1:D:791:PHE:CD2	2.36	0.44
1:E:115:PRO:O	1:E:116:TYR:HB3	2.18	0.44
1:E:143:PRO:HB2	1:F:408:ASN:ND2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:155:THR:HG21	1:E:163:LEU:HG	1.99	0.44
1:E:401:GLN:NE2	1:E:404:GLN:HB2	2.33	0.44
1:G:242:ARG:HH11	1:H:396:VAL:HG23	1.82	0.44
1:G:533:ASN:HB2	1:G:605:PHE:CE2	2.52	0.44
1:G:620:PRO:O	1:G:621:ASN:HB2	2.17	0.44
1:G:780:ASN:ND2	1:H:226:HIS:O	2.51	0.44
1:H:132:ASN:ND2	1:H:148:ALA:HB1	2.32	0.44
1:H:294:ILE:HA	1:H:556:GLN:O	2.17	0.44
1:H:401:GLN:HB2	1:H:402:GLN:H	1.51	0.44
1:I:334:GLU:HG3	1:I:668:LEU:HD22	1.99	0.44
1:I:618:ILE:HG12	1:I:625:LEU:HD11	1.99	0.44
1:J:10:TRP:CE2	4:R:16:GLN:CB	2.98	0.44
1:J:28:LEU:HD21	1:J:45:PHE:CZ	2.53	0.44
1:J:135:PHE:HE1	1:J:145:GLN:HG2	1.83	0.44
1:J:242:ARG:HG3	1:J:243:THR:N	2.32	0.44
1:J:395:GLU:H	1:J:395:GLU:CD	2.20	0.44
1:J:490:VAL:HG22	1:J:490:VAL:O	2.18	0.44
1:J:502:ASN:C	1:J:502:ASN:HD22	2.20	0.44
1:J:606:ASN:HB3	1:J:884:VAL:HG22	2.00	0.44
1:J:639:SER:O	1:J:878:LEU:N	2.51	0.44
1:J:641:THR:CG2	1:J:642:ARG:H	2.02	0.44
1:J:794:ALA:CB	1:J:795:PRO:HD2	2.36	0.44
1:J:799:HIS:CE1	1:K:132:ASN:ND2	2.86	0.44
1:L:208:ARG:NH2	1:L:233:ASN:ND2	2.65	0.44
1:L:610:SER:HB3	1:L:881:VAL:O	2.17	0.44
2:M:140:LYS:HB2	2:M:154:TRP:CD2	2.52	0.44
3:N:34:GLY:C	3:N:35:VAL:HG22	2.38	0.44
3:O:90:LEU:HD22	3:P:90:LEU:CD2	1.00	0.44
3:Q:36:VAL:O	3:Q:36:VAL:HG23	2.17	0.44
1:A:61:SER:HA	1:C:694:ASN:HB3	1.99	0.44
1:A:248:ASN:OD1	1:A:249:PRO:HD2	2.18	0.44
1:A:271:VAL:HG13	1:B:189:GLU:OE2	2.18	0.44
1:A:436:TYR:OH	1:A:441:LEU:HD21	2.17	0.44
1:A:482:ILE:HG13	1:A:482:ILE:O	2.18	0.44
1:A:533:ASN:HB2	1:A:605:PHE:CE2	2.52	0.44
1:A:782:ARG:HB3	1:B:185:GLN:HE21	1.83	0.44
1:B:884:VAL:HG12	1:B:885:ALA:N	2.33	0.44
1:C:264:ASP:HA	1:C:289:ASN:HD22	1.82	0.44
1:D:13:MET:HG3	1:F:900:LEU:CD2	2.45	0.44
1:D:61:SER:HA	1:F:694:ASN:HB3	1.99	0.44
1:D:135:PHE:HE1	1:D:145:GLN:HG2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:409:SER:HB2	1:F:142:HIS:CA	2.48	0.44
1:D:490:VAL:O	1:D:490:VAL:HG22	2.18	0.44
1:E:388:GLN:CG	1:E:420:PRO:HG3	2.47	0.44
1:E:783:THR:HA	1:E:803:GLN:HB2	1.98	0.44
1:F:761:MET:HE3	1:F:824:LEU:HD13	2.00	0.44
1:G:28:LEU:HD21	1:G:45:PHE:CZ	2.53	0.44
1:G:186:LEU:HD23	1:I:790:ARG:CZ	2.48	0.44
1:G:293:PHE:HB2	1:G:558:THR:HG23	2.00	0.44
1:G:482:ILE:HG13	1:G:482:ILE:O	2.18	0.44
1:G:606:ASN:HB3	1:G:884:VAL:HG22	2.00	0.44
1:G:677:THR:O	1:G:866:MET:HB2	2.18	0.44
1:I:155:THR:HG21	1:I:163:LEU:CD1	2.47	0.44
1:I:776:LEU:HD23	1:I:806:LEU:H	1.83	0.44
1:J:148:ALA:HB1	1:L:799:HIS:HE1	1.82	0.44
1:J:360:SER:H	1:J:502:ASN:HD21	1.65	0.44
1:J:394:HIS:HB3	1:L:242:ARG:HH11	1.79	0.44
1:J:684:GLN:NE2	1:J:687:SER:HA	2.33	0.44
1:J:780:ASN:ND2	1:K:226:HIS:O	2.51	0.44
1:K:606:ASN:HB3	1:K:884:VAL:HG22	2.00	0.44
1:K:658:TYR:HH	3:P:39:PRO:HB3	1.79	0.44
1:K:789:PHE:HE1	1:K:791:PHE:CD2	2.35	0.44
2:M:277:ASP:OD2	2:M:285:LYS:HE2	2.18	0.44
3:O:8:TYR:CD1	3:O:8:TYR:N	2.69	0.44
3:O:69:GLN:NE2	3:P:4:GLU:N	2.60	0.44
3:Q:32:LEU:HD22	3:Q:33:GLY:H	1.83	0.44
3:Q:57:ASN:HD22	3:Q:59:HIS:H	1.65	0.44
3:Q:77:GLU:CD	3:Q:80:LEU:HD13	2.39	0.44
4:R:203:ARG:HG3	4:R:204:HIS:H	1.82	0.44
1:A:189:GLU:OE2	1:C:271:VAL:HG13	2.18	0.43
1:A:635:PHE:N	1:A:635:PHE:CD1	2.81	0.43
1:B:315:LEU:HD23	1:B:531:ILE:HG21	2.00	0.43
1:B:789:PHE:HE1	1:B:791:PHE:CD2	2.35	0.43
1:B:861:ASP:OD2	1:D:908:ASN:O	2.36	0.43
1:C:242:ARG:HG3	1:C:243:THR:N	2.32	0.43
1:C:807:PRO:HA	1:C:808:PRO:HD3	1.93	0.43
1:D:625:LEU:HD23	1:D:625:LEU:C	2.39	0.43
1:E:534:LEU:HA	1:E:605:PHE:CZ	2.53	0.43
1:E:691:TRP:CD1	1:E:692:PRO:HA	2.53	0.43
1:E:789:PHE:HE1	1:E:791:PHE:CD2	2.35	0.43
1:E:817:ARG:HB2	1:E:818:ASP:H	1.70	0.43
1:E:890:PRO:HG2	1:E:891:HIS:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:208:ARG:NH1	1:F:256:GLU:CA	2.81	0.43
1:F:610:SER:HB3	1:F:881:VAL:O	2.17	0.43
1:F:786:ALA:CB	1:F:800:PRO:HD3	2.48	0.43
1:G:148:ALA:HB1	1:I:799:HIS:HE1	1.82	0.43
1:G:360:SER:H	1:G:502:ASN:HD21	1.65	0.43
1:G:423:GLU:HB2	1:I:384:LEU:HD23	2.00	0.43
1:G:789:PHE:HE1	1:G:791:PHE:CD2	2.36	0.43
1:H:133:THR:HB	1:H:212:GLN:NE2	2.33	0.43
1:H:202:ALA:O	1:H:251:THR:HA	2.17	0.43
1:H:618:ILE:HG12	1:H:625:LEU:HD11	2.00	0.43
1:H:767:ASN:CB	1:H:770:THR:HG23	2.44	0.43
1:I:388:GLN:CG	1:I:420:PRO:HG3	2.45	0.43
1:I:761:MET:HE1	1:I:824:LEU:HD13	2.00	0.43
1:I:786:ALA:CB	1:I:800:PRO:HD3	2.48	0.43
1:I:807:PRO:HA	1:I:808:PRO:HD3	1.93	0.43
1:J:8:PRO:HD2	4:R:18:GLY:CA	2.47	0.43
1:J:242:ARG:HH11	1:K:394:HIS:HB3	1.82	0.43
1:J:248:ASN:OD1	1:J:249:PRO:HD2	2.17	0.43
1:J:271:VAL:HG13	1:K:189:GLU:OE2	2.18	0.43
1:J:324:ALA:O	1:J:897:VAL:HG11	2.18	0.43
1:J:533:ASN:HB2	1:J:605:PHE:CE2	2.52	0.43
1:J:709:VAL:HG23	1:J:709:VAL:O	2.17	0.43
1:J:784:THR:OG1	1:K:122:ASN:HA	2.18	0.43
1:K:508:ARG:O	1:K:511:LEU:HB3	2.18	0.43
1:K:809:HIS:O	1:L:515:GLY:HA2	2.17	0.43
1:L:192:THR:HG23	1:L:193:ALA:N	2.32	0.43
1:L:208:ARG:NH1	1:L:256:GLU:CA	2.81	0.43
1:L:242:ARG:HG3	1:L:243:THR:N	2.32	0.43
3:N:76:VAL:HB	3:N:80:LEU:HD11	1.99	0.43
3:P:25:ASP:O	3:P:69:GLN:HA	2.17	0.43
1:A:132:ASN:HB3	1:A:206:VAL:CG2	2.34	0.43
1:A:332:ASN:N	1:A:613:ASN:HD21	2.16	0.43
1:A:783:THR:HA	1:A:803:GLN:CB	2.48	0.43
1:A:783:THR:HA	1:A:803:GLN:HB2	2.01	0.43
1:B:248:ASN:OD1	1:B:249:PRO:HD2	2.17	0.43
1:B:360:SER:H	1:B:502:ASN:HD21	1.65	0.43
1:C:767:ASN:CB	1:C:770:THR:HG23	2.45	0.43
1:D:142:HIS:HA	1:E:409:SER:HB2	1.98	0.43
1:D:170:ARG:CG	1:D:171:GLN:N	2.81	0.43
1:D:332:ASN:N	1:D:613:ASN:HD21	2.16	0.43
1:D:347:ARG:HH21	1:D:356:GLN:CG	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:394:HIS:HB3	1:F:242:ARG:HH11	1.79	0.43
1:D:483:GLY:HA2	1:E:115:PRO:O	2.18	0.43
1:E:618:ILE:HG12	1:E:625:LEU:HD11	2.00	0.43
1:F:324:ALA:O	1:F:897:VAL:HG11	2.18	0.43
1:F:776:LEU:HD23	1:F:806:LEU:H	1.83	0.43
1:G:242:ARG:HG3	1:G:243:THR:N	2.32	0.43
1:G:537:LEU:HB3	1:G:538:PRO:HD2	2.00	0.43
1:G:639:SER:O	1:G:878:LEU:N	2.51	0.43
1:G:776:LEU:HD23	1:G:806:LEU:H	1.83	0.43
1:G:814:HIS:CE1	1:H:516:ARG:HB3	2.52	0.43
1:G:817:ARG:CD	1:H:517:PHE:HB2	2.48	0.43
1:G:857:ALA:O	4:R:12:THR:HB	2.16	0.43
1:H:106:THR:HG22	1:H:519:ASP:OD1	2.18	0.43
1:H:809:HIS:O	1:I:515:GLY:HA2	2.17	0.43
1:I:156:ILE:CD1	1:I:164:GLN:HE21	2.31	0.43
1:J:192:THR:HG23	1:J:193:ALA:N	2.33	0.43
1:J:387:VAL:HG13	1:J:387:VAL:O	2.17	0.43
1:J:783:THR:HA	1:J:803:GLN:HB2	2.00	0.43
1:K:106:THR:HG22	1:K:519:ASP:OD1	2.19	0.43
1:K:534:LEU:HA	1:K:605:PHE:CZ	2.53	0.43
1:K:635:PHE:HB2	1:K:880:GLU:O	2.19	0.43
1:K:794:ALA:CB	1:K:795:PRO:HD2	2.38	0.43
1:K:804:LEU:HD12	1:L:229:ILE:HG23	2.00	0.43
3:Q:35:VAL:H	3:Q:64:ARG:CD	2.31	0.43
3:Q:77:GLU:OE1	3:Q:80:LEU:CD1	2.60	0.43
1:A:67:ARG:HH11	1:A:576:ASN:ND2	2.12	0.43
1:A:409:SER:HB2	1:C:142:HIS:CA	2.48	0.43
1:A:423:GLU:HB2	1:C:384:LEU:CD2	2.48	0.43
1:B:233:ASN:ND2	1:B:235:GLN:HB2	2.32	0.43
1:C:109:ARG:NH1	1:C:113:PHE:CZ	2.86	0.43
1:C:208:ARG:NH1	1:C:256:GLU:CA	2.81	0.43
1:C:332:ASN:N	1:C:613:ASN:HD21	2.17	0.43
1:D:28:LEU:HD21	1:D:45:PHE:CZ	2.53	0.43
1:D:186:LEU:HD23	1:F:790:ARG:CZ	2.48	0.43
1:D:242:ARG:HH11	1:E:394:HIS:HB3	1.82	0.43
1:D:323:ASN:HD22	1:D:324:ALA:H	1.65	0.43
1:D:782:ARG:HB3	1:E:185:GLN:HE21	1.83	0.43
1:D:890:PRO:HG2	1:D:891:HIS:H	1.83	0.43
1:E:109:ARG:HH21	1:E:512:LEU:HD12	1.82	0.43
1:E:202:ALA:O	1:E:251:THR:HA	2.17	0.43
1:G:226:HIS:O	1:I:780:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:409:SER:HB2	1:I:142:HIS:CA	2.48	0.43
1:G:783:THR:HA	1:G:803:GLN:HB2	2.00	0.43
1:G:784:THR:OG1	1:H:122:ASN:HA	2.18	0.43
1:H:143:PRO:HB2	1:I:408:ASN:ND2	2.33	0.43
1:H:160:ASN:HB2	1:I:398:ARG:HE	1.83	0.43
1:H:323:ASN:HD22	1:H:324:ALA:H	1.67	0.43
1:I:297:ARG:HG2	1:I:297:ARG:HH11	1.82	0.43
1:I:362:ASP:HB3	1:I:365:VAL:HG23	2.01	0.43
1:I:621:ASN:HD22	1:I:621:ASN:N	2.16	0.43
1:J:133:THR:HB	1:J:212:GLN:NE2	2.33	0.43
1:J:176:ALA:HB1	1:J:181:GLN:CB	2.49	0.43
1:J:376:GLU:H	1:J:376:GLU:CD	2.22	0.43
1:J:412:ASN:HB3	1:L:146:THR:O	2.18	0.43
1:J:425:ASN:OD1	1:J:428:ALA:HB2	2.19	0.43
1:J:482:ILE:O	1:J:482:ILE:HG13	2.18	0.43
1:J:537:LEU:HB3	1:J:538:PRO:HD2	2.00	0.43
1:J:783:THR:HA	1:J:803:GLN:CB	2.47	0.43
1:J:804:LEU:HD12	1:K:229:ILE:HG23	1.99	0.43
1:J:885:ALA:HA	1:K:13:MET:HE1	1.99	0.43
1:K:142:HIS:HB3	1:L:409:SER:HB2	2.00	0.43
1:K:366:ARG:HH11	1:K:496:PRO:HB3	1.82	0.43
1:L:135:PHE:CE2	1:L:147:ILE:HG21	2.54	0.43
1:L:324:ALA:O	1:L:897:VAL:HG11	2.18	0.43
1:L:502:ASN:C	1:L:502:ASN:HD22	2.20	0.43
3:N:32:LEU:HD22	3:N:33:GLY:H	1.83	0.43
3:P:34:GLY:C	3:P:35:VAL:HG22	2.38	0.43
3:Q:76:VAL:HB	3:Q:80:LEU:HD11	1.99	0.43
4:R:172:ILE:HG23	4:R:176:GLN:OE1	2.19	0.43
1:A:208:ARG:HH12	1:A:256:GLU:CA	2.23	0.43
1:A:371:VAL:O	1:A:371:VAL:HG22	2.18	0.43
1:A:625:LEU:HD23	1:A:625:LEU:C	2.39	0.43
1:A:630:ARG:HG2	1:A:630:ARG:NH1	2.33	0.43
1:D:242:ARG:HG3	1:D:243:THR:N	2.32	0.43
1:D:900:LEU:CD2	1:E:13:MET:HG3	2.44	0.43
1:E:297:ARG:HH11	1:E:297:ARG:HG2	1.84	0.43
1:E:332:ASN:N	1:E:613:ASN:HD21	2.16	0.43
1:F:208:ARG:NH2	1:F:233:ASN:ND2	2.65	0.43
1:F:502:ASN:C	1:F:502:ASN:HD22	2.20	0.43
1:F:635:PHE:HB2	1:F:880:GLU:O	2.18	0.43
1:F:799:HIS:HD2	1:F:800:PRO:CD	2.25	0.43
1:G:625:LEU:HD23	1:G:625:LEU:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:701:ASN:ND2	1:L:326:VAL:HG11	2.33	0.43
1:G:890:PRO:HG2	1:G:891:HIS:H	1.83	0.43
1:H:115:PRO:O	1:H:116:TYR:HB3	2.18	0.43
1:H:208:ARG:NH1	1:H:256:GLU:CA	2.80	0.43
1:H:502:ASN:HD22	1:H:502:ASN:C	2.20	0.43
1:H:711:GLY:O	3:Q:52:GLU:OE1	2.35	0.43
1:I:602:ASP:OD1	1:I:888:HIS:HA	2.17	0.43
1:I:635:PHE:HB2	1:I:880:GLU:O	2.18	0.43
1:J:401:GLN:NE2	1:J:404:GLN:HB2	2.34	0.43
1:J:766:PRO:HG3	1:J:807:PRO:HG3	1.99	0.43
1:J:810:TRP:HZ2	1:K:116:TYR:HH	1.64	0.43
1:J:817:ARG:N	1:J:817:ARG:NE	2.55	0.43
1:K:109:ARG:HH21	1:K:512:LEU:HD12	1.82	0.43
1:K:325:VAL:HG13	1:K:528:PHE:CE2	2.54	0.43
1:K:360:SER:H	1:K:502:ASN:HD21	1.65	0.43
1:L:504:GLY:O	1:L:508:ARG:HD3	2.18	0.43
1:L:534:LEU:HD12	1:L:535:LEU:H	1.84	0.43
1:L:625:LEU:HD23	1:L:625:LEU:C	2.39	0.43
2:M:423:THR:HB	2:M:424:ILE:HD12	2.01	0.43
3:N:75:LEU:HD23	3:N:77:GLU:CD	2.38	0.43
3:O:75:LEU:HD23	3:O:77:GLU:CD	2.38	0.43
3:O:76:VAL:HB	3:O:80:LEU:HD11	1.99	0.43
3:O:79:SER:O	3:O:83:LEU:N	2.39	0.43
3:P:56:ASP:OD1	3:P:56:ASP:N	2.50	0.43
4:R:50:ALA:O	4:R:53:ARG:HB3	2.19	0.43
1:A:28:LEU:HD21	1:A:45:PHE:CZ	2.53	0.43
1:A:186:LEU:HD23	1:C:790:ARG:CZ	2.48	0.43
1:A:388:GLN:CG	1:A:420:PRO:HG3	2.44	0.43
1:A:425:ASN:OD1	1:A:428:ALA:HB2	2.18	0.43
1:A:602:ASP:OD1	1:A:888:HIS:HA	2.18	0.43
1:A:784:THR:OG1	1:B:122:ASN:HA	2.18	0.43
1:B:246:ASN:HD21	1:B:248:ASN:HB3	1.84	0.43
1:B:537:LEU:HB3	1:B:538:PRO:HD2	2.00	0.43
1:B:691:TRP:CD1	1:B:692:PRO:HA	2.54	0.43
1:B:720:ASN:OD1	1:B:822:LYS:HA	2.18	0.43
1:C:621:ASN:HD22	1:C:621:ASN:N	2.16	0.43
1:D:223:THR:HA	1:F:774:PHE:CE2	2.54	0.43
1:D:248:ASN:OD1	1:D:249:PRO:HD2	2.18	0.43
1:D:261:LEU:HD12	1:F:813:ARG:NH1	2.33	0.43
1:D:376:GLU:H	1:D:376:GLU:CD	2.22	0.43
1:D:823:PHE:C	1:D:824:LEU:HD12	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:332:ASN:N	1:F:613:ASN:HD21	2.17	0.43
1:F:551:VAL:HG11	1:F:568:ALA:O	2.19	0.43
1:G:192:THR:HG23	1:G:193:ALA:N	2.33	0.43
1:G:271:VAL:HG13	1:H:189:GLU:OE2	2.18	0.43
1:G:376:GLU:H	1:G:376:GLU:CD	2.22	0.43
1:G:412:ASN:HB3	1:I:146:THR:O	2.18	0.43
1:G:423:GLU:HB2	1:I:384:LEU:CD2	2.48	0.43
1:G:602:ASP:OD1	1:G:888:HIS:HA	2.18	0.43
1:G:885:ALA:HA	1:H:13:MET:HE1	2.00	0.43
1:I:192:THR:HG23	1:I:193:ALA:N	2.32	0.43
1:I:436:TYR:OH	1:I:441:LEU:HD21	2.19	0.43
1:I:452:HIS:O	1:I:454:ILE:HG13	2.19	0.43
1:I:817:ARG:NE	1:I:817:ARG:N	2.54	0.43
1:J:223:THR:HA	1:L:774:PHE:CE2	2.54	0.43
1:J:677:THR:O	1:J:866:MET:HB2	2.18	0.43
1:J:890:PRO:HG2	1:J:891:HIS:H	1.83	0.43
1:K:274:ALA:O	1:K:275:ASP:HB3	2.18	0.43
1:L:109:ARG:NH1	1:L:113:PHE:CZ	2.86	0.43
1:L:264:ASP:HA	1:L:289:ASN:HD22	1.82	0.43
1:L:436:TYR:OH	1:L:441:LEU:HD21	2.19	0.43
3:N:74:ILE:HG23	3:N:78:ASP:CB	2.46	0.43
3:O:62:GLY:O	3:O:63:ALA:CB	2.67	0.43
3:Q:56:ASP:OD1	3:Q:56:ASP:N	2.50	0.43
1:A:176:ALA:HB1	1:A:181:GLN:CB	2.49	0.43
1:A:490:VAL:O	1:A:490:VAL:HG22	2.18	0.43
1:B:143:PRO:HB2	1:C:408:ASN:HD22	1.83	0.43
1:B:143:PRO:HB2	1:C:408:ASN:ND2	2.33	0.43
1:B:325:VAL:HG13	1:B:528:PHE:CE2	2.54	0.43
1:B:332:ASN:N	1:B:613:ASN:HD21	2.16	0.43
1:B:426:LEU:HD11	1:C:426:LEU:HD23	2.01	0.43
1:B:684:GLN:C	1:D:909:ALA:HB2	2.31	0.43
1:C:135:PHE:CE2	1:C:147:ILE:HG21	2.54	0.43
1:C:490:VAL:O	1:C:490:VAL:HG22	2.19	0.43
1:C:625:LEU:C	1:C:625:LEU:HD23	2.39	0.43
1:C:715:ASN:HA	1:C:721:MET:O	2.19	0.43
1:D:412:ASN:HB3	1:F:146:THR:O	2.19	0.43
1:D:776:LEU:HD23	1:D:806:LEU:H	1.83	0.43
1:E:582:PHE:HD1	1:E:584:MET:N	2.17	0.43
1:E:804:LEU:HD12	1:F:229:ILE:HG23	2.00	0.43
1:F:109:ARG:NH1	1:F:113:PHE:CZ	2.86	0.43
1:F:362:ASP:HB3	1:F:365:VAL:HG23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:715:ASN:HA	1:F:721:MET:O	2.19	0.43
1:G:106:THR:HG22	1:G:519:ASP:OD1	2.19	0.43
1:G:161:ASN:O	1:G:162:ASP:CB	2.65	0.43
1:G:223:THR:HA	1:I:774:PHE:CE2	2.54	0.43
1:G:483:GLY:HA2	1:H:115:PRO:O	2.18	0.43
1:G:686:ASP:HB3	4:R:15:PRO:HG2	2.00	0.43
1:H:426:LEU:HD11	1:I:426:LEU:HD23	2.01	0.43
1:I:625:LEU:HD23	1:I:625:LEU:C	2.39	0.43
1:J:186:LEU:HD23	1:L:790:ARG:CZ	2.48	0.43
1:J:274:ALA:O	1:J:275:ASP:HB3	2.19	0.43
1:K:143:PRO:HB2	1:L:408:ASN:ND2	2.33	0.43
1:K:396:VAL:CG2	1:K:405:ASN:HA	2.44	0.43
1:K:677:THR:O	1:K:866:MET:HB2	2.18	0.43
1:K:900:LEU:CD2	1:L:9:GLN:HE21	2.23	0.43
1:L:635:PHE:HB2	1:L:880:GLU:O	2.18	0.43
2:M:143:ALA:HB3	2:M:151:GLN:HE21	1.84	0.43
3:P:57:ASN:HD22	3:P:59:HIS:H	1.65	0.43
1:A:106:THR:HG22	1:A:519:ASP:OD1	2.19	0.43
1:A:249:PRO:HD3	1:B:403:TRP:CZ2	2.54	0.43
1:A:297:ARG:HG2	1:A:297:ARG:HH11	1.84	0.43
1:A:360:SER:H	1:A:502:ASN:HD21	1.66	0.43
1:A:884:VAL:HG12	1:A:885:ALA:N	2.34	0.43
1:B:146:THR:O	1:C:412:ASN:HB3	2.19	0.43
1:B:534:LEU:HA	1:B:605:PHE:CZ	2.53	0.43
1:B:582:PHE:HD1	1:B:584:MET:N	2.17	0.43
1:B:635:PHE:HB2	1:B:880:GLU:O	2.19	0.43
1:C:367:VAL:HG11	1:C:759:ILE:HD12	2.00	0.43
1:C:436:TYR:OH	1:C:441:LEU:HD21	2.19	0.43
1:C:761:MET:HE1	1:C:824:LEU:HD13	2.00	0.43
1:C:789:PHE:HB3	1:C:792:CYS:HA	2.00	0.43
1:D:176:ALA:HB1	1:D:181:GLN:CB	2.49	0.43
1:D:537:LEU:HB3	1:D:538:PRO:HD2	2.00	0.43
1:D:783:THR:HA	1:D:803:GLN:CB	2.48	0.43
1:D:783:THR:HA	1:D:803:GLN:HB2	2.01	0.43
1:E:32:ALA:HB2	1:E:41:ILE:HD11	2.01	0.43
1:E:142:HIS:HB3	1:F:409:SER:HB2	2.00	0.43
1:E:208:ARG:NH2	1:E:233:ASN:ND2	2.67	0.43
1:E:307:ASN:HD21	1:E:333:THR:N	1.99	0.43
1:E:563:LEU:HB3	1:E:568:ALA:CB	2.49	0.43
1:F:401:GLN:NE2	1:F:404:GLN:HB2	2.33	0.43
1:F:452:HIS:O	1:F:454:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:534:LEU:HD12	1:F:535:LEU:H	1.84	0.43
1:G:135:PHE:HE1	1:G:145:GLN:HG2	1.83	0.43
1:G:248:ASN:OD1	1:G:249:PRO:HD2	2.18	0.43
1:G:274:ALA:C	1:G:276:ARG:N	2.72	0.43
1:G:395:GLU:H	1:G:395:GLU:CD	2.20	0.43
1:G:799:HIS:CE1	1:H:132:ASN:ND2	2.86	0.43
1:H:146:THR:O	1:I:412:ASN:HB3	2.19	0.43
1:H:534:LEU:HA	1:H:605:PHE:CZ	2.53	0.43
1:H:538:PRO:HD2	1:H:593:GLU:OE2	2.19	0.43
1:H:582:PHE:HD1	1:H:584:MET:N	2.17	0.43
1:I:109:ARG:NH1	1:I:113:PHE:CZ	2.86	0.43
1:I:490:VAL:O	1:I:490:VAL:HG22	2.19	0.43
1:I:635:PHE:CD1	1:I:635:PHE:N	2.81	0.43
1:J:106:THR:HG22	1:J:519:ASP:OD1	2.19	0.43
1:J:483:GLY:HA2	1:K:115:PRO:O	2.18	0.43
1:J:630:ARG:HG2	1:J:630:ARG:NH1	2.33	0.43
1:J:790:ARG:HH11	1:J:790:ARG:HG3	1.84	0.43
1:K:426:LEU:HD11	1:L:426:LEU:HD23	2.01	0.43
1:K:458:PRO:HD2	3:P:65:ARG:O	2.18	0.43
1:K:537:LEU:HB3	1:K:538:PRO:HD2	2.00	0.43
1:K:658:TYR:CB	3:P:26:LYS:HG3	2.20	0.43
1:L:208:ARG:NH1	1:L:208:ARG:HG2	2.34	0.43
1:L:425:ASN:OD1	1:L:428:ALA:HB2	2.19	0.43
1:L:776:LEU:HD23	1:L:806:LEU:H	1.83	0.43
3:Q:25:ASP:O	3:Q:69:GLN:HA	2.17	0.43
3:Q:34:GLY:C	3:Q:35:VAL:HG22	2.38	0.43
4:R:7:THR:HG22	4:R:26:ASP:OD1	2.18	0.43
4:R:27:TYR:CD1	4:R:27:TYR:N	2.87	0.43
1:A:135:PHE:HE1	1:A:145:GLN:HG2	1.83	0.43
1:A:229:ILE:HG23	1:C:804:LEU:HD12	2.00	0.43
1:A:396:VAL:CG2	1:A:405:ASN:HA	2.43	0.43
1:A:790:ARG:HG3	1:A:790:ARG:HH11	1.84	0.43
1:B:106:THR:HG22	1:B:519:ASP:OD1	2.18	0.43
1:B:388:GLN:CG	1:B:420:PRO:HG3	2.47	0.43
1:B:563:LEU:HB3	1:B:568:ALA:CB	2.48	0.43
1:B:784:THR:HG22	1:B:784:THR:O	2.19	0.43
1:C:192:THR:HG23	1:C:193:ALA:N	2.32	0.43
1:C:551:VAL:HG11	1:C:568:ALA:O	2.19	0.43
1:C:582:PHE:HD1	1:C:584:MET:N	2.17	0.43
1:D:249:PRO:HD3	1:E:403:TRP:CZ2	2.54	0.43
1:D:360:SER:H	1:D:502:ASN:HD21	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:717:ALA:HA	1:E:353:MET:HA	2.01	0.43
1:D:808:PRO:HG3	1:E:121:TYR:OH	2.19	0.43
1:E:426:LEU:HD11	1:F:426:LEU:HD23	2.01	0.43
1:E:635:PHE:N	1:E:635:PHE:CD1	2.82	0.43
1:E:641:THR:CG2	1:E:642:ARG:N	2.70	0.43
1:E:698:LEU:HD13	1:E:714:TYR:CE1	2.53	0.43
1:F:367:VAL:HG11	1:F:759:ILE:HD12	2.00	0.43
1:F:425:ASN:OD1	1:F:428:ALA:HB2	2.19	0.43
1:F:482:ILE:HG13	1:F:482:ILE:O	2.19	0.43
1:F:504:GLY:O	1:F:508:ARG:HD3	2.19	0.43
1:F:618:ILE:HG12	1:F:625:LEU:HD11	1.99	0.43
1:F:789:PHE:HB3	1:F:792:CYS:HA	2.00	0.43
1:F:794:ALA:CB	1:F:795:PRO:HD2	2.41	0.43
1:G:384:LEU:CD2	1:H:423:GLU:HB2	2.49	0.43
1:G:630:ARG:HG2	1:G:630:ARG:NH1	2.33	0.43
1:G:641:THR:CG2	1:G:642:ARG:N	2.71	0.43
1:G:884:VAL:HG12	1:G:885:ALA:N	2.34	0.43
1:G:900:LEU:CD2	1:H:13:MET:HG3	2.44	0.43
1:H:102:ASP:CG	1:H:521:HIS:HE2	2.22	0.43
1:H:233:ASN:ND2	1:H:235:GLN:HB2	2.32	0.43
1:H:419:LEU:CD1	1:I:786:ALA:HB1	2.48	0.43
1:I:208:ARG:NH1	1:I:256:GLU:CA	2.81	0.43
1:I:882:PHE:O	1:I:901:ARG:HA	2.19	0.43
1:J:261:LEU:HD12	1:L:813:ARG:NH1	2.33	0.43
1:J:297:ARG:HG2	1:J:297:ARG:HH11	1.84	0.43
1:J:625:LEU:HD23	1:J:625:LEU:C	2.39	0.43
1:K:115:PRO:O	1:K:116:TYR:HB3	2.18	0.43
1:K:170:ARG:CG	1:K:171:GLN:N	2.81	0.43
1:K:367:VAL:HG11	1:K:759:ILE:HD12	2.00	0.43
1:K:890:PRO:HG2	1:K:891:HIS:H	1.82	0.43
1:L:490:VAL:O	1:L:490:VAL:HG22	2.19	0.43
2:M:253:ARG:C	2:M:254:PHE:HD1	2.22	0.43
2:M:355:MET:HB2	2:M:450:GLN:OE1	2.19	0.43
3:N:40:ASN:O	3:N:41:SER:CB	2.51	0.43
3:N:75:LEU:HD21	3:N:76:VAL:HG23	1.99	0.43
3:P:72:TYR:C	3:P:73:MET:HG3	2.39	0.43
1:A:226:HIS:O	1:C:780:ASN:ND2	2.52	0.43
1:A:321:GLN:HB3	2:M:364:ALA:HB2	2.00	0.43
1:A:684:GLN:NE2	1:A:687:SER:HA	2.33	0.43
1:A:794:ALA:CB	1:A:795:PRO:CD	2.94	0.43
1:A:799:HIS:CE1	1:B:132:ASN:ND2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:379:ASN:N	1:B:379:ASN:ND2	2.67	0.43
1:B:813:ARG:HH22	1:C:261:LEU:HB2	1.84	0.43
1:C:786:ALA:CB	1:C:800:PRO:HD3	2.48	0.43
1:D:885:ALA:HA	1:E:13:MET:HE1	2.01	0.43
1:E:102:ASP:CG	1:E:521:HIS:HE2	2.22	0.43
1:E:142:HIS:CA	1:F:409:SER:HB2	2.49	0.43
1:E:640:LEU:HD23	1:E:640:LEU:C	2.39	0.43
1:E:784:THR:HG22	1:E:784:THR:O	2.19	0.43
1:E:794:ALA:CB	1:E:795:PRO:HD2	2.38	0.43
1:E:882:PHE:O	1:E:901:ARG:HA	2.19	0.43
1:E:884:VAL:HG12	1:E:885:ALA:N	2.33	0.43
1:F:156:ILE:CD1	1:F:164:GLN:HE21	2.31	0.43
1:F:630:ARG:HB3	1:F:859:ALA:HA	2.01	0.43
1:G:189:GLU:OE2	1:I:271:VAL:HG13	2.19	0.43
1:G:691:TRP:CG	1:G:692:PRO:HA	2.54	0.43
1:G:717:ALA:HA	1:H:353:MET:HA	2.01	0.43
1:G:823:PHE:C	1:G:824:LEU:HD12	2.39	0.43
1:H:107:LEU:HD12	1:H:108:ASP:N	2.34	0.43
1:H:170:ARG:CG	1:H:171:GLN:N	2.81	0.43
1:H:274:ALA:O	1:H:275:ASP:HB3	2.18	0.43
1:H:691:TRP:CD1	1:H:692:PRO:HA	2.54	0.43
1:H:698:LEU:HD13	1:H:714:TYR:CE1	2.53	0.43
1:H:884:VAL:HG12	1:H:885:ALA:N	2.33	0.43
1:I:425:ASN:OD1	1:I:428:ALA:HB2	2.19	0.43
1:I:482:ILE:HG13	1:I:482:ILE:O	2.19	0.43
1:I:582:PHE:HD1	1:I:584:MET:N	2.17	0.43
1:J:803:GLN:CD	1:K:121:TYR:HA	2.38	0.43
1:J:873:THR:O	1:J:874:LEU:HD23	2.19	0.43
1:J:884:VAL:HG12	1:J:885:ALA:N	2.34	0.43
1:K:621:ASN:HD22	1:K:621:ASN:N	2.16	0.43
1:K:767:ASN:HD21	3:O:58:LEU:HB3	1.82	0.43
1:L:367:VAL:HG11	1:L:759:ILE:HD12	2.00	0.43
1:L:715:ASN:HA	1:L:721:MET:O	2.19	0.43
3:Q:77:GLU:HA	3:Q:80:LEU:HD12	1.97	0.43
1:A:394:HIS:HB3	1:C:242:ARG:HH11	1.79	0.43
1:A:484:THR:HG23	1:B:514:ASN:CB	2.38	0.43
1:A:534:LEU:HA	1:A:605:PHE:CZ	2.54	0.43
1:A:761:MET:HE3	1:A:824:LEU:HD13	2.01	0.43
1:A:789:PHE:HE1	1:A:791:PHE:CD2	2.36	0.43
1:A:873:THR:O	1:A:874:LEU:HD23	2.19	0.43
1:B:32:ALA:HB2	1:B:41:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:297:ARG:HG2	1:B:297:ARG:HH11	1.84	0.43
1:B:323:ASN:HD22	1:B:324:ALA:H	1.66	0.43
1:B:347:ARG:HH21	1:B:356:GLN:CG	2.29	0.43
1:B:849:GLN:O	1:B:849:GLN:HG2	2.19	0.43
1:C:534:LEU:HD12	1:C:535:LEU:H	1.84	0.43
1:D:293:PHE:HB2	1:D:558:THR:HG23	2.00	0.43
1:D:635:PHE:HB2	1:D:880:GLU:O	2.19	0.43
1:E:106:THR:HG22	1:E:519:ASP:OD1	2.18	0.43
1:E:677:THR:O	1:E:866:MET:HB2	2.18	0.43
1:E:849:GLN:O	1:E:849:GLN:HG2	2.19	0.43
1:F:651:LEU:CD1	1:F:667:TYR:HE2	2.30	0.43
1:G:176:ALA:HB1	1:G:181:GLN:CB	2.49	0.43
1:G:249:PRO:HD3	1:H:403:TRP:CZ2	2.54	0.43
1:G:347:ARG:HH21	1:G:356:GLN:CG	2.27	0.43
1:G:782:ARG:HB3	1:H:185:GLN:HE21	1.83	0.43
1:G:785:PRO:O	1:G:786:ALA:HB3	2.19	0.43
1:H:325:VAL:HG13	1:H:528:PHE:CE2	2.54	0.43
1:H:401:GLN:NE2	1:H:404:GLN:HB2	2.33	0.43
1:H:537:LEU:HB3	1:H:538:PRO:HD2	2.00	0.43
1:H:630:ARG:HG2	1:H:630:ARG:NH1	2.34	0.43
1:I:504:GLY:O	1:I:508:ARG:HD3	2.19	0.43
1:J:189:GLU:OE2	1:L:271:VAL:HG13	2.18	0.43
1:J:249:PRO:HD3	1:K:403:TRP:CZ2	2.54	0.43
1:J:332:ASN:N	1:J:613:ASN:HD21	2.16	0.43
1:K:208:ARG:NH2	1:K:233:ASN:ND2	2.67	0.43
1:K:379:ASN:N	1:K:379:ASN:ND2	2.67	0.43
1:K:538:PRO:HD2	1:K:593:GLU:OE2	2.19	0.43
1:K:691:TRP:CD1	1:K:692:PRO:HA	2.54	0.43
1:K:698:LEU:HD13	1:K:714:TYR:CE1	2.53	0.43
1:K:776:LEU:HD23	1:K:806:LEU:H	1.83	0.43
1:L:452:HIS:O	1:L:454:ILE:HG13	2.19	0.43
1:L:786:ALA:CB	1:L:800:PRO:HD3	2.48	0.43
2:M:66:ILE:HG22	2:M:469:LEU:CD2	2.48	0.43
4:R:13:PHE:HB2	4:R:177:PHE:CE2	2.54	0.43
1:A:13:MET:HG3	1:C:900:LEU:CD2	2.45	0.42
1:A:223:THR:HA	1:C:774:PHE:CE2	2.54	0.42
1:A:401:GLN:NE2	1:A:404:GLN:HB2	2.34	0.42
1:B:115:PRO:O	1:B:116:TYR:HB3	2.18	0.42
1:B:208:ARG:NH2	1:B:233:ASN:ND2	2.67	0.42
1:B:274:ALA:O	1:B:275:ASP:HB3	2.18	0.42
1:B:606:ASN:HB3	1:B:884:VAL:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:677:THR:O	1:B:866:MET:HB2	2.18	0.42
1:C:67:ARG:HH22	1:D:81:LYS:CE	2.32	0.42
1:C:425:ASN:OD1	1:C:428:ALA:HB2	2.19	0.42
1:D:106:THR:HG22	1:D:519:ASP:OD1	2.19	0.42
1:D:423:GLU:HB2	1:F:384:LEU:CD2	2.49	0.42
1:D:803:GLN:OE1	1:E:121:TYR:HA	2.19	0.42
1:E:309:GLY:HA3	1:G:654:PRO:HG3	1.99	0.42
1:E:325:VAL:HG13	1:E:528:PHE:CE2	2.54	0.42
1:E:836:SER:CB	1:F:57:THR:HG21	2.42	0.42
1:F:135:PHE:CE2	1:F:147:ILE:HG21	2.54	0.42
1:F:625:LEU:HD23	1:F:625:LEU:C	2.39	0.42
1:G:115:PRO:O	1:I:483:GLY:HA2	2.19	0.42
1:G:315:LEU:HD23	1:G:531:ILE:HG21	2.01	0.42
1:G:651:LEU:CD1	1:G:667:TYR:HE2	2.31	0.42
1:G:684:GLN:NE2	1:G:687:SER:HA	2.33	0.42
1:G:799:HIS:CE1	1:H:148:ALA:HB1	2.42	0.42
1:G:803:GLN:OE1	1:H:121:TYR:HA	2.19	0.42
1:H:172:LEU:HA	1:H:173:PRO:HD3	1.89	0.42
1:H:508:ARG:O	1:H:511:LEU:HB3	2.18	0.42
1:H:606:ASN:HB3	1:H:884:VAL:HG22	2.00	0.42
1:H:625:LEU:C	1:H:625:LEU:HD23	2.39	0.42
1:H:882:PHE:O	1:H:901:ARG:HA	2.19	0.42
1:I:135:PHE:CE2	1:I:147:ILE:HG21	2.54	0.42
1:I:691:TRP:CD1	1:I:692:PRO:HA	2.55	0.42
1:I:720:ASN:OD1	1:I:822:LYS:HA	2.19	0.42
1:J:226:HIS:O	1:L:780:ASN:ND2	2.51	0.42
1:J:371:VAL:O	1:J:371:VAL:HG22	2.18	0.42
1:J:635:PHE:HB2	1:J:880:GLU:O	2.19	0.42
1:J:643:LEU:HD21	1:J:672:PHE:CD1	2.54	0.42
1:K:133:THR:HB	1:K:212:GLN:NE2	2.33	0.42
1:K:142:HIS:CA	1:L:409:SER:HB2	2.48	0.42
1:K:563:LEU:HB3	1:K:568:ALA:CB	2.48	0.42
1:K:625:LEU:C	1:K:625:LEU:HD23	2.39	0.42
1:K:794:ALA:CB	1:K:795:PRO:CD	2.94	0.42
1:L:93:VAL:HG23	1:L:93:VAL:O	2.19	0.42
1:L:109:ARG:HB3	1:L:113:PHE:HB2	1.99	0.42
1:L:551:VAL:HG11	1:L:568:ALA:O	2.19	0.42
1:L:630:ARG:HG2	1:L:630:ARG:NH1	2.34	0.42
1:L:882:PHE:O	1:L:901:ARG:HA	2.19	0.42
3:N:77:GLU:CD	3:N:80:LEU:HD13	2.39	0.42
3:P:7:ILE:O	3:P:8:TYR:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Q:72:TYR:CD1	3:Q:73:MET:HG3	2.54	0.42
4:R:33:TRP:HE1	4:R:41:ILE:CG1	2.29	0.42
4:R:41:ILE:O	4:R:44:VAL:HG12	2.19	0.42
4:R:190:TYR:O	4:R:191:SER:C	2.56	0.42
1:A:155:THR:HG21	1:A:163:LEU:HG	2.01	0.42
1:A:188:ILE:O	1:C:797:GLU:CD	2.58	0.42
1:A:808:PRO:HG3	1:B:121:TYR:OH	2.19	0.42
1:A:823:PHE:C	1:A:824:LEU:HD12	2.39	0.42
1:B:28:LEU:HD21	1:B:45:PHE:CZ	2.55	0.42
1:B:107:LEU:HD12	1:B:108:ASP:N	2.34	0.42
1:B:362:ASP:HB3	1:B:365:VAL:HG23	2.01	0.42
1:B:508:ARG:O	1:B:511:LEU:HB3	2.18	0.42
1:B:529:PHE:CG	1:B:530:ALA:N	2.88	0.42
1:B:621:ASN:N	1:B:621:ASN:HD22	2.16	0.42
1:B:641:THR:CG2	1:B:642:ARG:N	2.70	0.42
1:C:720:ASN:OD1	1:C:822:LYS:HA	2.19	0.42
1:C:882:PHE:O	1:C:901:ARG:HA	2.19	0.42
1:D:271:VAL:HG13	1:E:189:GLU:OE2	2.18	0.42
1:D:384:LEU:CD2	1:E:423:GLU:HB2	2.49	0.42
1:D:504:GLY:O	1:D:508:ARG:HD3	2.20	0.42
1:D:817:ARG:HB2	1:D:818:ASP:H	1.63	0.42
1:E:170:ARG:CG	1:E:171:GLN:N	2.81	0.42
1:E:504:GLY:O	1:E:508:ARG:HD3	2.19	0.42
1:E:508:ARG:O	1:E:511:LEU:HB3	2.18	0.42
1:E:625:LEU:HD23	1:E:625:LEU:C	2.39	0.42
1:F:93:VAL:O	1:F:93:VAL:HG23	2.19	0.42
1:F:582:PHE:HD1	1:F:584:MET:N	2.17	0.42
1:G:155:THR:HG21	1:G:163:LEU:HG	2.01	0.42
1:G:188:ILE:O	1:I:797:GLU:CD	2.58	0.42
1:G:425:ASN:OD1	1:G:428:ALA:HB2	2.19	0.42
1:G:534:LEU:HA	1:G:605:PHE:CZ	2.54	0.42
1:G:688:SER:OG	4:R:15:PRO:HG2	2.19	0.42
1:G:790:ARG:HH11	1:G:790:ARG:HG3	1.84	0.42
1:G:863:THR:CB	1:L:909:ALA:HB3	2.47	0.42
1:G:873:THR:O	1:G:874:LEU:HD23	2.19	0.42
1:H:156:ILE:CD1	1:H:164:GLN:HE21	2.32	0.42
1:H:208:ARG:NH2	1:H:233:ASN:ND2	2.67	0.42
1:H:621:ASN:N	1:H:621:ASN:HD22	2.16	0.42
1:H:784:THR:HG22	1:H:784:THR:O	2.19	0.42
1:H:890:PRO:HG2	1:H:891:HIS:H	1.82	0.42
1:I:161:ASN:O	1:I:162:ASP:CB	2.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:274:ALA:O	1:I:275:ASP:HB3	2.19	0.42
1:I:379:ASN:N	1:I:379:ASN:ND2	2.67	0.42
1:I:789:PHE:HB3	1:I:792:CYS:HA	2.00	0.42
1:J:396:VAL:CG2	1:J:405:ASN:HA	2.43	0.42
1:K:297:ARG:HG2	1:K:297:ARG:HH11	1.84	0.42
1:L:170:ARG:CG	1:L:171:GLN:N	2.81	0.42
2:M:211:GLN:CG	2:M:212:THR:H	2.32	0.42
3:N:37:LEU:HD12	3:N:38:PRO:CD	2.48	0.42
3:O:7:ILE:O	3:O:8:TYR:C	2.57	0.42
3:O:36:VAL:O	3:O:36:VAL:HG23	2.17	0.42
3:Q:77:GLU:CA	3:Q:80:LEU:HD13	2.47	0.42
1:A:643:LEU:HD21	1:A:672:PHE:CD1	2.54	0.42
1:A:677:THR:O	1:A:866:MET:HB2	2.18	0.42
1:A:727:LEU:HD22	1:B:65:GLN:OE1	2.19	0.42
1:B:395:GLU:H	1:B:395:GLU:CD	2.19	0.42
1:B:625:LEU:HD23	1:B:625:LEU:C	2.39	0.42
1:B:630:ARG:NH1	1:B:630:ARG:HG2	2.34	0.42
1:B:640:LEU:HD23	1:B:640:LEU:C	2.39	0.42
1:D:188:ILE:O	1:F:797:GLU:CD	2.58	0.42
1:D:189:GLU:OE2	1:F:271:VAL:HG13	2.18	0.42
1:D:362:ASP:HB3	1:D:365:VAL:HG23	2.02	0.42
1:D:479:TYR:O	1:D:482:ILE:HG23	2.19	0.42
1:D:610:SER:HB3	1:D:881:VAL:O	2.19	0.42
1:D:727:LEU:HD22	1:E:65:GLN:OE1	2.19	0.42
1:D:790:ARG:HH11	1:D:790:ARG:HG3	1.84	0.42
1:E:28:LEU:HD21	1:E:45:PHE:CZ	2.55	0.42
1:F:274:ALA:C	1:F:276:ARG:N	2.73	0.42
1:F:328:LEU:HD12	1:F:901:ARG:HH21	1.84	0.42
1:F:767:ASN:CB	1:F:770:THR:HG23	2.45	0.42
1:F:882:PHE:O	1:F:901:ARG:HA	2.19	0.42
1:G:242:ARG:HH11	1:H:394:HIS:HB3	1.82	0.42
1:G:371:VAL:O	1:G:371:VAL:HG22	2.18	0.42
1:H:142:HIS:CA	1:I:409:SER:HB2	2.49	0.42
1:H:246:ASN:HD21	1:H:248:ASN:HB3	1.84	0.42
1:H:563:LEU:HB3	1:H:568:ALA:CB	2.48	0.42
1:H:820:GLU:CG	3:Q:46:THR:HG23	2.11	0.42
1:I:367:VAL:HG11	1:I:759:ILE:HD12	2.00	0.42
1:I:551:VAL:HG11	1:I:568:ALA:O	2.19	0.42
1:I:630:ARG:HB3	1:I:859:ALA:HA	2.01	0.42
1:I:884:VAL:HG12	1:I:885:ALA:N	2.35	0.42
1:J:651:LEU:CD1	1:J:667:TYR:HE2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:717:ALA:HA	1:K:353:MET:HA	2.01	0.42
1:J:789:PHE:HE1	1:J:791:PHE:CD2	2.36	0.42
1:K:32:ALA:HB2	1:K:41:ILE:HD11	2.01	0.42
1:K:246:ASN:HD21	1:K:248:ASN:HB3	1.84	0.42
1:K:315:LEU:HD23	1:K:531:ILE:HG21	2.00	0.42
1:K:582:PHE:HD1	1:K:584:MET:N	2.17	0.42
1:K:630:ARG:HB3	1:K:859:ALA:HA	2.02	0.42
1:K:882:PHE:O	1:K:901:ARG:HA	2.19	0.42
2:M:117:LEU:HD23	2:M:117:LEU:O	2.20	0.42
2:M:303:GLU:HG2	2:M:309:GLU:OE1	2.19	0.42
3:N:7:ILE:O	3:N:8:TYR:C	2.57	0.42
3:N:72:TYR:CD1	3:N:73:MET:HG3	2.54	0.42
3:O:72:TYR:CD1	3:O:73:MET:HG3	2.54	0.42
3:P:32:LEU:HD21	3:P:55:ARG:H	1.85	0.42
3:Q:32:LEU:HD21	3:Q:55:ARG:H	1.85	0.42
1:A:261:LEU:HD12	1:C:813:ARG:NH1	2.34	0.42
1:A:529:PHE:CG	1:A:530:ALA:N	2.88	0.42
1:A:785:PRO:O	1:A:786:ALA:HB3	2.19	0.42
1:B:504:GLY:O	1:B:508:ARG:HD3	2.19	0.42
1:B:767:ASN:CB	1:B:770:THR:HG23	2.44	0.42
1:B:882:PHE:O	1:B:901:ARG:HA	2.19	0.42
1:C:274:ALA:O	1:C:275:ASP:HB3	2.19	0.42
1:C:630:ARG:HG2	1:C:630:ARG:NH1	2.34	0.42
1:C:640:LEU:HD23	1:C:640:LEU:C	2.40	0.42
1:C:884:VAL:HG12	1:C:885:ALA:N	2.35	0.42
1:D:109:ARG:NH1	1:D:113:PHE:CZ	2.87	0.42
1:D:274:ALA:C	1:D:276:ARG:N	2.72	0.42
1:D:401:GLN:NE2	1:D:404:GLN:HB2	2.33	0.42
1:D:807:PRO:HA	1:D:808:PRO:HD3	1.94	0.42
1:E:61:SER:N	1:J:61:SER:HB2	2.35	0.42
1:E:246:ASN:HD21	1:E:248:ASN:HB3	1.84	0.42
1:E:347:ARG:HH21	1:E:356:GLN:CG	2.29	0.42
1:E:379:ASN:N	1:E:379:ASN:ND2	2.67	0.42
1:E:419:LEU:CD1	1:F:786:ALA:HB1	2.48	0.42
1:E:534:LEU:HD12	1:E:535:LEU:H	1.84	0.42
1:E:599:ASP:H	4:R:25:GLN:HE22	1.67	0.42
1:E:779:VAL:HG23	1:E:780:ASN:OD1	2.20	0.42
1:F:170:ARG:CG	1:F:171:GLN:N	2.81	0.42
1:G:170:ARG:CG	1:G:171:GLN:N	2.81	0.42
1:G:297:ARG:HG2	1:G:297:ARG:HH11	1.84	0.42
1:G:538:PRO:HD2	1:G:593:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:808:PRO:HG3	1:H:121:TYR:OH	2.19	0.42
1:H:136:ARG:O	1:H:279:VAL:HG23	2.20	0.42
1:H:669:ASP:OD1	1:H:671:THR:HG23	2.20	0.42
1:H:849:GLN:O	1:H:849:GLN:HG2	2.19	0.42
1:J:7:LEU:HD22	4:R:14:GLN:O	2.12	0.42
1:J:538:PRO:HD2	1:J:593:GLU:OE2	2.20	0.42
1:J:635:PHE:N	1:J:635:PHE:CD1	2.81	0.42
1:J:823:PHE:C	1:J:824:LEU:HD12	2.39	0.42
1:K:388:GLN:CG	1:K:420:PRO:HG3	2.47	0.42
1:L:682:ALA:O	1:L:862:MET:HA	2.20	0.42
2:M:88:THR:HG22	2:M:449:VAL:HG12	2.02	0.42
3:O:32:LEU:HD21	3:O:55:ARG:H	1.85	0.42
1:A:135:PHE:CE2	1:A:147:ILE:HG21	2.55	0.42
1:A:376:GLU:H	1:A:376:GLU:CD	2.22	0.42
1:A:395:GLU:H	1:A:395:GLU:CD	2.20	0.42
1:A:635:PHE:HB2	1:A:880:GLU:O	2.19	0.42
1:A:717:ALA:HA	1:B:353:MET:HA	2.01	0.42
1:B:109:ARG:NH1	1:B:113:PHE:CZ	2.88	0.42
1:B:136:ARG:O	1:B:279:VAL:HG23	2.20	0.42
1:B:380:TYR:HB2	1:B:382:PHE:CZ	2.55	0.42
1:B:779:VAL:HG23	1:B:780:ASN:OD1	2.20	0.42
1:C:504:GLY:O	1:C:508:ARG:HD3	2.19	0.42
1:C:691:TRP:CD1	1:C:692:PRO:HA	2.54	0.42
1:D:379:ASN:N	1:D:379:ASN:ND2	2.67	0.42
1:D:482:ILE:HG13	1:D:482:ILE:O	2.18	0.42
1:D:488:PRO:HG2	1:D:491:MET:HB2	2.01	0.42
1:D:803:GLN:CD	1:E:121:TYR:HA	2.38	0.42
1:E:107:LEU:HD12	1:E:108:ASP:N	2.34	0.42
1:E:360:SER:H	1:E:502:ASN:HD21	1.65	0.42
1:E:635:PHE:HB2	1:E:880:GLU:O	2.19	0.42
1:G:541:TYR:CD1	1:G:541:TYR:N	2.87	0.42
1:G:715:ASN:HA	1:G:721:MET:O	2.20	0.42
1:G:727:LEU:HD22	1:H:65:GLN:OE1	2.19	0.42
1:H:109:ARG:NH1	1:H:113:PHE:CZ	2.88	0.42
1:H:436:TYR:OH	1:H:441:LEU:HD21	2.19	0.42
1:I:93:VAL:O	1:I:93:VAL:HG23	2.19	0.42
1:I:332:ASN:N	1:I:613:ASN:HD21	2.17	0.42
1:I:630:ARG:HG2	1:I:630:ARG:NH1	2.34	0.42
1:J:227:GLY:O	1:J:228:GLY:C	2.58	0.42
1:J:315:LEU:HD23	1:J:531:ILE:HG21	2.01	0.42
1:J:479:TYR:O	1:J:482:ILE:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:785:PRO:O	1:J:786:ALA:HB3	2.19	0.42
1:J:808:PRO:HG3	1:K:121:TYR:OH	2.19	0.42
1:K:274:ALA:C	1:K:276:ARG:N	2.73	0.42
1:K:640:LEU:HD23	1:K:640:LEU:C	2.39	0.42
1:L:395:GLU:H	1:L:395:GLU:CD	2.21	0.42
1:L:720:ASN:OD1	1:L:822:LYS:HA	2.19	0.42
2:M:215:VAL:HG12	2:M:217:PRO:HD2	2.01	0.42
2:M:342:THR:HG22	2:M:381:LEU:HG	2.01	0.42
3:N:62:GLY:O	3:N:63:ALA:CB	2.67	0.42
3:P:6:ARG:O	3:P:6:ARG:CG	2.59	0.42
3:P:23:VAL:HG22	3:P:26:LYS:HG2	1.98	0.42
3:P:72:TYR:CD1	3:P:73:MET:HG3	2.54	0.42
1:A:208:ARG:NH1	1:A:208:ARG:HG2	2.35	0.42
1:A:541:TYR:N	1:A:541:TYR:CD1	2.87	0.42
1:A:803:GLN:OE1	1:B:121:TYR:HA	2.19	0.42
1:A:900:LEU:CD2	1:B:9:GLN:HE21	2.26	0.42
1:B:102:ASP:CG	1:B:521:HIS:HE2	2.22	0.42
1:B:142:HIS:CA	1:C:409:SER:HB2	2.49	0.42
1:B:653:SER:CB	1:J:78:TYR:CE2	3.02	0.42
1:B:836:SER:CB	1:C:57:THR:HG21	2.42	0.42
1:C:156:ILE:CD1	1:C:164:GLN:HE21	2.31	0.42
1:C:452:HIS:O	1:C:454:ILE:HG13	2.19	0.42
1:D:115:PRO:O	1:F:483:GLY:HA2	2.20	0.42
1:D:529:PHE:CG	1:D:530:ALA:N	2.88	0.42
1:D:534:LEU:HA	1:D:605:PHE:CZ	2.55	0.42
1:D:606:ASN:HB3	1:D:884:VAL:HG22	2.00	0.42
1:D:789:PHE:CE2	1:D:797:GLU:HG3	2.55	0.42
1:E:367:VAL:HG11	1:E:759:ILE:HD12	2.00	0.42
1:E:621:ASN:HD22	1:E:621:ASN:N	2.16	0.42
1:F:379:ASN:N	1:F:379:ASN:ND2	2.67	0.42
1:F:691:TRP:CD1	1:F:692:PRO:HA	2.54	0.42
1:F:877:VAL:HG12	1:F:878:LEU:N	2.35	0.42
1:G:261:LEU:HD12	1:I:813:ARG:NH1	2.34	0.42
1:G:490:VAL:HG22	1:G:490:VAL:O	2.18	0.42
1:G:504:GLY:O	1:G:508:ARG:HD3	2.20	0.42
1:G:610:SER:HB3	1:G:881:VAL:O	2.19	0.42
1:H:109:ARG:HB3	1:H:113:PHE:HB2	2.02	0.42
1:H:161:ASN:O	1:H:162:ASP:CB	2.66	0.42
1:H:362:ASP:HB3	1:H:365:VAL:HG23	2.01	0.42
1:H:635:PHE:HB2	1:H:880:GLU:O	2.19	0.42
1:H:720:ASN:OD1	1:H:822:LYS:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:799:HIS:CE1	1:I:132:ASN:ND2	2.80	0.42
1:I:208:ARG:NH1	1:I:208:ARG:HG2	2.34	0.42
1:I:698:LEU:HD13	1:I:714:TYR:CE1	2.55	0.42
1:J:9:GLN:HB3	4:R:15:PRO:O	2.06	0.42
1:J:149:GLN:NE2	1:K:417:GLY:O	2.53	0.42
1:J:188:ILE:O	1:L:797:GLU:CD	2.58	0.42
1:J:379:ASN:N	1:J:379:ASN:ND2	2.67	0.42
1:J:388:GLN:HA	1:J:388:GLN:OE1	2.20	0.42
1:J:508:ARG:O	1:J:511:LEU:HB3	2.20	0.42
1:K:102:ASP:CG	1:K:521:HIS:HE2	2.22	0.42
1:K:107:LEU:HD12	1:K:108:ASP:N	2.34	0.42
1:K:534:LEU:HD12	1:K:535:LEU:H	1.84	0.42
1:K:630:ARG:HG2	1:K:630:ARG:NH1	2.34	0.42
1:K:651:LEU:CD1	1:K:667:TYR:HE2	2.32	0.42
1:K:784:THR:HG22	1:K:784:THR:O	2.19	0.42
1:L:274:ALA:O	1:L:275:ASP:HB3	2.19	0.42
1:L:582:PHE:HD1	1:L:584:MET:N	2.17	0.42
2:M:164:PHE:O	2:M:168:MET:HB3	2.19	0.42
3:N:77:GLU:OE1	3:N:80:LEU:CD1	2.60	0.42
3:P:62:GLY:O	3:P:63:ALA:CB	2.67	0.42
1:A:107:LEU:HD12	1:A:108:ASP:N	2.35	0.42
1:A:172:LEU:HA	1:A:173:PRO:HD3	1.88	0.42
1:A:183:GLU:HA	1:A:184:PRO:HD3	1.93	0.42
1:A:227:GLY:O	1:A:228:GLY:C	2.58	0.42
1:A:384:LEU:CD2	1:B:423:GLU:HB2	2.49	0.42
1:A:396:VAL:CG1	1:A:403:TRP:HD1	2.23	0.42
1:A:483:GLY:HA2	1:B:115:PRO:O	2.18	0.42
1:A:890:PRO:HG2	1:A:891:HIS:H	1.83	0.42
1:B:109:ARG:HB3	1:B:113:PHE:HB2	2.02	0.42
1:B:133:THR:HB	1:B:212:GLN:NE2	2.33	0.42
1:B:890:PRO:HG2	1:J:909:ALA:CA	2.49	0.42
1:C:227:GLY:O	1:C:228:GLY:C	2.58	0.42
1:D:149:GLN:NE2	1:E:417:GLY:O	2.53	0.42
1:D:155:THR:HG21	1:D:163:LEU:HG	2.01	0.42
1:D:226:HIS:O	1:F:780:ASN:ND2	2.52	0.42
1:D:395:GLU:H	1:D:395:GLU:CD	2.20	0.42
1:D:508:ARG:O	1:D:511:LEU:HB3	2.20	0.42
1:D:538:PRO:HD2	1:D:593:GLU:OE2	2.20	0.42
1:D:809:HIS:HA	1:D:814:HIS:NE2	2.35	0.42
1:E:109:ARG:NH1	1:E:113:PHE:CZ	2.88	0.42
1:E:436:TYR:OH	1:E:441:LEU:HD21	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:32:ALA:HB2	1:F:41:ILE:HD11	2.02	0.42
1:F:176:ALA:HB1	1:F:181:GLN:CB	2.50	0.42
1:F:402:GLN:O	1:F:403:TRP:CB	2.56	0.42
1:F:640:LEU:HD23	1:F:640:LEU:C	2.40	0.42
1:F:682:ALA:O	1:F:862:MET:HA	2.20	0.42
1:F:785:PRO:O	1:F:786:ALA:HB3	2.20	0.42
1:F:884:VAL:HG12	1:F:885:ALA:N	2.35	0.42
1:G:229:ILE:HG23	1:I:804:LEU:HD12	2.00	0.42
1:G:274:ALA:O	1:G:275:ASP:HB3	2.19	0.42
1:H:768:PRO:HG2	3:Q:57:ASN:ND2	2.35	0.42
1:I:640:LEU:C	1:I:640:LEU:HD23	2.40	0.42
1:I:715:ASN:HA	1:I:721:MET:O	2.19	0.42
1:J:384:LEU:CD2	1:K:423:GLU:HB2	2.49	0.42
1:J:423:GLU:HB2	1:L:384:LEU:CD2	2.49	0.42
1:J:541:TYR:CD1	1:J:541:TYR:N	2.87	0.42
1:J:610:SER:HB3	1:J:881:VAL:O	2.19	0.42
1:J:799:HIS:CE1	1:K:148:ALA:HB1	2.42	0.42
1:J:803:GLN:OE1	1:K:121:TYR:HA	2.19	0.42
1:K:849:GLN:O	1:K:849:GLN:HG2	2.19	0.42
1:L:473:SER:HB2	1:L:792:CYS:CB	2.34	0.42
1:L:789:PHE:HB3	1:L:792:CYS:HA	2.00	0.42
3:N:39:PRO:HA	3:N:44:HIS:HD2	1.79	0.42
3:N:97:LEU:O	3:N:100:THR:OG1	2.28	0.42
3:P:77:GLU:CD	3:P:80:LEU:HD13	2.39	0.42
3:Q:79:SER:O	3:Q:83:LEU:N	2.39	0.42
1:A:315:LEU:HD23	1:A:531:ILE:HG21	2.01	0.42
1:A:337:TYR:HD1	1:A:532:ARG:NH2	2.15	0.42
1:A:504:GLY:O	1:A:508:ARG:HD3	2.20	0.42
1:A:538:PRO:HD2	1:A:593:GLU:OE2	2.20	0.42
1:A:610:SER:HB3	1:A:881:VAL:O	2.20	0.42
1:A:651:LEU:CD1	1:A:667:TYR:HE2	2.31	0.42
1:A:814:HIS:CE1	1:B:516:ARG:H	2.38	0.42
1:B:891:HIS:CD2	1:J:630:ARG:NH2	2.78	0.42
1:C:170:ARG:CG	1:C:171:GLN:N	2.81	0.42
1:D:274:ALA:O	1:D:275:ASP:HB3	2.19	0.42
1:D:367:VAL:HA	1:D:487:SER:HB3	2.02	0.42
1:D:643:LEU:HD21	1:D:672:PHE:CD1	2.54	0.42
1:D:651:LEU:CD1	1:D:667:TYR:HE2	2.31	0.42
1:D:687:SER:OG	1:J:69:VAL:CG2	2.56	0.42
1:D:761:MET:HE1	1:D:824:LEU:HD13	2.02	0.42
1:E:242:ARG:HH11	1:F:394:HIS:HB3	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:251:THR:HB	1:E:253:PHE:HE1	1.84	0.42
1:F:137:GLN:NE2	1:F:142:HIS:ND1	2.68	0.42
1:F:698:LEU:HD13	1:F:714:TYR:CE1	2.55	0.42
1:F:817:ARG:NE	1:F:817:ARG:N	2.54	0.42
1:G:635:PHE:HB2	1:G:880:GLU:O	2.19	0.42
1:H:251:THR:HB	1:H:253:PHE:HE1	1.84	0.42
1:H:396:VAL:CG2	1:H:405:ASN:HA	2.44	0.42
1:H:541:TYR:CD1	1:H:541:TYR:N	2.88	0.42
1:H:804:LEU:HD12	1:I:229:ILE:HG23	2.00	0.42
1:I:227:GLY:O	1:I:228:GLY:C	2.58	0.42
1:I:534:LEU:HD12	1:I:535:LEU:H	1.84	0.42
1:J:109:ARG:NH1	1:J:113:PHE:CZ	2.87	0.42
1:K:28:LEU:HD21	1:K:45:PHE:CZ	2.54	0.42
1:K:233:ASN:ND2	1:K:235:GLN:HB2	2.32	0.42
1:K:761:MET:HE3	1:K:824:LEU:HD13	2.00	0.42
1:K:779:VAL:HG23	1:K:780:ASN:OD1	2.20	0.42
1:K:821:ARG:O	3:O:47:GLU:N	2.53	0.42
1:L:107:LEU:HD12	1:L:108:ASP:N	2.35	0.42
1:L:176:ALA:HB1	1:L:181:GLN:CB	2.50	0.42
1:L:294:ILE:HA	1:L:556:GLN:O	2.20	0.42
1:L:332:ASN:N	1:L:613:ASN:HD21	2.17	0.42
1:L:362:ASP:HB3	1:L:365:VAL:HG23	2.01	0.42
1:L:482:ILE:HG13	1:L:482:ILE:O	2.19	0.42
1:L:640:LEU:C	1:L:640:LEU:HD23	2.40	0.42
1:L:691:TRP:CD1	1:L:692:PRO:HA	2.55	0.42
3:N:34:GLY:HA3	3:N:64:ARG:NH1	2.34	0.42
3:N:79:SER:O	3:N:83:LEU:N	2.39	0.42
3:O:17:PRO:HG3	3:O:22:SER:HG	1.73	0.42
3:O:34:GLY:C	3:O:35:VAL:HG22	2.38	0.42
3:O:41:SER:HG	3:O:72:TYR:HE2	1.64	0.42
1:A:109:ARG:NH1	1:A:113:PHE:CZ	2.87	0.42
1:A:362:ASP:HB3	1:A:365:VAL:HG23	2.02	0.42
1:A:423:GLU:HB2	1:C:384:LEU:HD23	2.00	0.42
1:A:640:LEU:HG	1:A:641:THR:N	2.35	0.42
1:B:208:ARG:HH12	1:B:256:GLU:CA	2.26	0.42
1:B:367:VAL:HA	1:B:487:SER:HB3	2.02	0.42
1:C:32:ALA:HB2	1:C:41:ILE:HD11	2.02	0.42
1:C:93:VAL:HG23	1:C:93:VAL:O	2.19	0.42
1:C:388:GLN:OE1	1:C:388:GLN:HA	2.20	0.42
1:C:877:VAL:HG12	1:C:878:LEU:N	2.35	0.42
1:D:388:GLN:CG	1:D:420:PRO:HG3	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:810:TRP:C	1:D:814:HIS:HB2	2.40	0.42
1:E:57:THR:HA	1:E:583:PRO:O	2.20	0.42
1:E:630:ARG:NH1	1:E:630:ARG:HG2	2.34	0.42
1:F:172:LEU:HA	1:F:173:PRO:HD3	1.89	0.42
1:F:294:ILE:HA	1:F:556:GLN:O	2.20	0.42
1:F:436:TYR:OH	1:F:441:LEU:HD21	2.19	0.42
1:G:384:LEU:HD23	1:H:423:GLU:HB2	2.02	0.42
1:G:401:GLN:NE2	1:G:404:GLN:HB2	2.34	0.42
1:G:529:PHE:CG	1:G:530:ALA:N	2.88	0.42
1:H:32:ALA:HB2	1:H:41:ILE:HD11	2.01	0.42
1:H:388:GLN:CG	1:H:420:PRO:HG3	2.47	0.42
1:H:779:VAL:HG23	1:H:780:ASN:OD1	2.20	0.42
1:H:785:PRO:O	1:H:786:ALA:HB3	2.20	0.42
1:J:362:ASP:HB3	1:J:365:VAL:HG23	2.02	0.42
1:J:504:GLY:O	1:J:508:ARG:HD3	2.20	0.42
1:J:691:TRP:CG	1:J:692:PRO:HA	2.54	0.42
1:K:384:LEU:CD2	1:L:423:GLU:HB2	2.50	0.42
1:K:419:LEU:CD1	1:L:786:ALA:HB1	2.48	0.42
1:K:488:PRO:HG2	1:K:491:MET:HB2	2.02	0.42
1:K:669:ASP:OD1	1:K:671:THR:HG23	2.20	0.42
1:K:821:ARG:C	3:O:47:GLU:HB2	2.36	0.42
1:L:137:GLN:NE2	1:L:142:HIS:ND1	2.68	0.42
1:L:274:ALA:C	1:L:276:ARG:N	2.73	0.42
1:L:376:GLU:H	1:L:376:GLU:CD	2.23	0.42
1:L:439:VAL:HG21	1:L:476:ILE:HG12	2.02	0.42
3:N:29:SER:HG	3:N:34:GLY:HA2	1.64	0.42
3:N:32:LEU:HD21	3:N:55:ARG:H	1.85	0.42
3:N:72:TYR:C	3:N:73:MET:HG3	2.39	0.42
3:O:104:LEU:CD2	3:P:104:LEU:HB3	2.50	0.42
3:P:57:ASN:ND2	3:P:57:ASN:O	2.53	0.42
1:A:488:PRO:HG2	1:A:491:MET:HB2	2.01	0.42
1:B:197:ALA:O	1:B:198:VAL:HB	2.20	0.42
1:B:274:ALA:C	1:B:276:ARG:N	2.73	0.42
1:B:807:PRO:HA	1:B:808:PRO:HD3	1.93	0.42
1:C:208:ARG:NH1	1:C:208:ARG:HG2	2.34	0.42
1:C:328:LEU:HD12	1:C:901:ARG:HH21	1.84	0.42
1:C:379:ASN:N	1:C:379:ASN:ND2	2.67	0.42
1:C:482:ILE:HG13	1:C:482:ILE:O	2.19	0.42
1:D:392:ARG:H	1:D:392:ARG:CD	2.26	0.42
1:D:799:HIS:CE1	1:E:132:ASN:ND2	2.86	0.42
1:D:813:ARG:HG2	1:D:813:ARG:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:817:ARG:N	1:D:817:ARG:NE	2.55	0.42
1:D:884:VAL:HG12	1:D:885:ALA:N	2.34	0.42
1:E:630:ARG:HB3	1:E:859:ALA:HA	2.01	0.42
1:E:891:HIS:NE2	4:R:24:SER:CB	2.80	0.42
1:G:137:GLN:NE2	1:G:142:HIS:ND1	2.68	0.42
1:G:197:ALA:O	1:G:198:VAL:HB	2.20	0.42
1:G:479:TYR:O	1:G:482:ILE:HG23	2.20	0.42
1:G:643:LEU:HD21	1:G:672:PHE:CD1	2.54	0.42
1:H:28:LEU:HD21	1:H:45:PHE:CZ	2.55	0.42
1:H:379:ASN:N	1:H:379:ASN:ND2	2.67	0.42
1:H:534:LEU:HD12	1:H:535:LEU:H	1.85	0.42
1:H:640:LEU:HD23	1:H:640:LEU:C	2.39	0.42
1:I:294:ILE:HA	1:I:556:GLN:O	2.20	0.42
1:I:376:GLU:H	1:I:376:GLU:CD	2.23	0.42
1:I:810:TRP:C	1:I:814:HIS:HB2	2.41	0.42
1:J:137:GLN:NE2	1:J:142:HIS:ND1	2.68	0.42
1:J:172:LEU:HA	1:J:173:PRO:HD3	1.88	0.42
1:J:423:GLU:HB2	1:L:384:LEU:HD23	2.01	0.42
1:J:727:LEU:HD22	1:K:65:GLN:OE1	2.19	0.42
1:J:782:ARG:HB3	1:K:185:GLN:HE21	1.83	0.42
1:K:146:THR:O	1:L:412:ASN:HB3	2.19	0.42
1:K:436:TYR:OH	1:K:441:LEU:HD21	2.19	0.42
1:K:504:GLY:O	1:K:508:ARG:HD3	2.19	0.42
1:K:529:PHE:CG	1:K:530:ALA:N	2.88	0.42
1:K:813:ARG:HH22	1:L:261:LEU:HB2	1.84	0.42
1:L:227:GLY:O	1:L:228:GLY:C	2.58	0.42
1:L:379:ASN:N	1:L:379:ASN:ND2	2.67	0.42
1:L:698:LEU:HD13	1:L:714:TYR:CE1	2.55	0.42
1:L:884:VAL:HG12	1:L:885:ALA:N	2.35	0.42
3:Q:7:ILE:O	3:Q:8:TYR:C	2.57	0.42
1:A:149:GLN:NE2	1:B:417:GLY:O	2.53	0.41
1:A:197:ALA:O	1:A:198:VAL:HB	2.20	0.41
1:A:379:ASN:N	1:A:379:ASN:ND2	2.67	0.41
1:A:412:ASN:HB3	1:C:146:THR:O	2.19	0.41
1:A:691:TRP:CG	1:A:692:PRO:HA	2.54	0.41
1:B:156:ILE:CD1	1:B:164:GLN:HE21	2.32	0.41
1:B:251:THR:HB	1:B:253:PHE:HE1	1.85	0.41
1:B:436:TYR:OH	1:B:441:LEU:HD21	2.19	0.41
1:B:538:PRO:HD2	1:B:593:GLU:OE2	2.19	0.41
1:C:529:PHE:CG	1:C:530:ALA:N	2.88	0.41
1:C:630:ARG:HB3	1:C:859:ALA:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:135:PHE:CE2	1:D:147:ILE:HG21	2.55	0.41
1:D:208:ARG:NH1	1:D:208:ARG:HG2	2.35	0.41
1:D:423:GLU:HB2	1:F:384:LEU:HD23	2.01	0.41
1:D:439:VAL:HG21	1:D:476:ILE:HG12	2.02	0.41
1:D:640:LEU:HG	1:D:641:THR:N	2.35	0.41
1:D:873:THR:O	1:D:874:LEU:HD23	2.19	0.41
1:E:109:ARG:HB3	1:E:113:PHE:HB2	2.02	0.41
1:E:233:ASN:ND2	1:E:235:GLN:HB2	2.32	0.41
1:E:488:PRO:HG2	1:E:491:MET:HB2	2.02	0.41
1:E:529:PHE:CG	1:E:530:ALA:N	2.88	0.41
1:F:168:ASP:HB2	1:F:174:VAL:CB	2.38	0.41
1:F:388:GLN:OE1	1:F:388:GLN:HA	2.20	0.41
1:F:424:ILE:HG23	1:F:424:ILE:O	2.20	0.41
1:F:490:VAL:O	1:F:490:VAL:HG22	2.19	0.41
1:F:529:PHE:CG	1:F:530:ALA:N	2.88	0.41
1:G:109:ARG:NH1	1:G:113:PHE:CZ	2.87	0.41
1:G:782:ARG:O	1:G:782:ARG:HG3	2.20	0.41
1:G:810:TRP:C	1:G:814:HIS:HB2	2.40	0.41
1:H:242:ARG:HH11	1:I:394:HIS:HB3	1.80	0.41
1:I:32:ALA:HB2	1:I:41:ILE:HD11	2.02	0.41
1:I:109:ARG:HH21	1:I:512:LEU:HB2	1.76	0.41
1:I:137:GLN:NE2	1:I:142:HIS:ND1	2.68	0.41
1:I:439:VAL:HG21	1:I:476:ILE:HG12	2.02	0.41
1:I:643:LEU:HD21	1:I:672:PHE:CD1	2.55	0.41
1:J:121:TYR:HA	1:L:803:GLN:CD	2.41	0.41
1:J:197:ALA:O	1:J:198:VAL:HB	2.20	0.41
1:J:367:VAL:HA	1:J:487:SER:HB3	2.02	0.41
1:J:810:TRP:C	1:J:814:HIS:HB2	2.40	0.41
1:K:57:THR:HA	1:K:583:PRO:O	2.20	0.41
1:K:109:ARG:NH1	1:K:113:PHE:CZ	2.88	0.41
1:K:380:TYR:HB2	1:K:382:PHE:CZ	2.55	0.41
1:K:532:ARG:HD2	1:K:533:ASN:HD21	1.85	0.41
1:K:541:TYR:CD1	1:K:541:TYR:N	2.88	0.41
1:L:529:PHE:CG	1:L:530:ALA:N	2.88	0.41
1:L:534:LEU:HA	1:L:605:PHE:CZ	2.55	0.41
1:L:767:ASN:CB	1:L:770:THR:HG23	2.45	0.41
1:L:810:TRP:C	1:L:814:HIS:HB2	2.41	0.41
2:M:141:MET:HB2	2:M:155:PHE:HE2	1.85	0.41
3:Q:62:GLY:O	3:Q:63:ALA:CB	2.67	0.41
4:R:185:VAL:O	4:R:185:VAL:HG23	2.20	0.41
1:A:231:LYS:HG3	1:A:257:GLU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:274:ALA:O	1:A:275:ASP:HB3	2.19	0.41
1:A:376:GLU:HB3	1:B:436:TYR:HE2	1.85	0.41
1:A:388:GLN:OE1	1:A:388:GLN:HA	2.20	0.41
1:A:479:TYR:O	1:A:482:ILE:HG23	2.19	0.41
1:A:809:HIS:HA	1:A:814:HIS:NE2	2.35	0.41
1:B:209:ASN:N	1:B:210:PRO:CD	2.82	0.41
1:B:384:LEU:CD2	1:C:423:GLU:HB2	2.50	0.41
1:B:488:PRO:HG2	1:B:491:MET:HB2	2.02	0.41
1:B:785:PRO:O	1:B:786:ALA:HB3	2.20	0.41
1:B:909:ALA:HB3	1:J:544:GLU:CD	2.34	0.41
1:C:233:ASN:ND2	1:C:235:GLN:HB2	2.30	0.41
1:C:362:ASP:HB3	1:C:365:VAL:HG23	2.01	0.41
1:C:439:VAL:HG21	1:C:476:ILE:HG12	2.02	0.41
1:C:640:LEU:HG	1:C:641:THR:N	2.35	0.41
1:C:810:TRP:C	1:C:814:HIS:HB2	2.41	0.41
1:D:107:LEU:HD12	1:D:108:ASP:N	2.35	0.41
1:D:227:GLY:O	1:D:228:GLY:C	2.58	0.41
1:D:425:ASN:OD1	1:D:428:ALA:HB2	2.19	0.41
1:D:516:ARG:HB2	1:F:810:TRP:HA	2.02	0.41
1:D:541:TYR:CD1	1:D:541:TYR:N	2.87	0.41
1:E:146:THR:O	1:F:412:ASN:HB3	2.19	0.41
1:E:538:PRO:HD2	1:E:593:GLU:OE2	2.19	0.41
1:F:388:GLN:CG	1:F:420:PRO:HG3	2.45	0.41
1:F:640:LEU:HG	1:F:641:THR:N	2.36	0.41
1:G:376:GLU:HB3	1:H:436:TYR:HE2	1.85	0.41
1:G:380:TYR:HB2	1:G:382:PHE:CZ	2.56	0.41
1:G:508:ARG:O	1:G:511:LEU:HB3	2.20	0.41
1:G:687:SER:CB	1:L:632:TRP:CE2	2.75	0.41
1:G:784:THR:HG22	1:G:784:THR:O	2.20	0.41
1:G:789:PHE:CE2	1:G:797:GLU:HG3	2.55	0.41
1:H:380:TYR:HB2	1:H:382:PHE:CZ	2.55	0.41
1:H:384:LEU:CD2	1:I:423:GLU:HB2	2.50	0.41
1:H:504:GLY:O	1:H:508:ARG:HD3	2.19	0.41
1:I:328:LEU:HD12	1:I:901:ARG:HH21	1.84	0.41
1:I:424:ILE:O	1:I:424:ILE:HG23	2.20	0.41
1:I:785:PRO:O	1:I:786:ALA:HB3	2.20	0.41
1:J:107:LEU:HD12	1:J:108:ASP:N	2.35	0.41
1:J:337:TYR:HD1	1:J:532:ARG:NH2	2.15	0.41
1:J:534:LEU:HA	1:J:605:PHE:CZ	2.54	0.41
1:J:640:LEU:HG	1:J:641:THR:N	2.35	0.41
1:K:142:HIS:HA	1:L:409:SER:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:99:THR:HG22	1:L:579:ALA:CB	2.50	0.41
1:L:541:TYR:CD1	1:L:541:TYR:N	2.88	0.41
3:N:57:ASN:ND2	3:N:57:ASN:O	2.53	0.41
3:O:4:GLU:CB	3:O:6:ARG:NE	2.69	0.41
3:Q:42:GLN:N	3:Q:42:GLN:CD	2.74	0.41
1:A:137:GLN:NE2	1:A:142:HIS:ND1	2.68	0.41
1:A:551:VAL:HG11	1:A:568:ALA:O	2.21	0.41
1:B:630:ARG:HB3	1:B:859:ALA:HA	2.02	0.41
1:B:780:ASN:ND2	1:C:226:HIS:O	2.53	0.41
1:C:698:LEU:HD13	1:C:714:TYR:CE1	2.55	0.41
1:C:849:GLN:O	1:C:849:GLN:HG2	2.21	0.41
1:E:93:VAL:HG23	1:E:93:VAL:O	2.21	0.41
1:E:208:ARG:NH1	1:E:208:ARG:HG2	2.35	0.41
1:E:425:ASN:OD1	1:E:428:ALA:HB2	2.20	0.41
1:E:725:TRP:O	1:E:729:GLN:HG2	2.20	0.41
1:E:785:PRO:O	1:E:786:ALA:HB3	2.20	0.41
1:E:908:ASN:HB3	1:G:83:ARG:NH1	2.35	0.41
1:F:274:ALA:O	1:F:275:ASP:HB3	2.19	0.41
1:F:376:GLU:H	1:F:376:GLU:CD	2.23	0.41
1:F:810:TRP:C	1:F:814:HIS:HB2	2.41	0.41
1:G:488:PRO:HG2	1:G:491:MET:HB2	2.01	0.41
1:G:551:VAL:HG11	1:G:568:ALA:O	2.21	0.41
1:G:701:ASN:O	1:G:702:GLU:HB3	2.21	0.41
1:H:529:PHE:CG	1:H:530:ALA:N	2.88	0.41
1:I:274:ALA:C	1:I:276:ARG:N	2.73	0.41
1:I:541:TYR:CD1	1:I:541:TYR:N	2.88	0.41
1:I:784:THR:HG22	1:I:784:THR:O	2.21	0.41
1:I:877:VAL:HG12	1:I:878:LEU:N	2.35	0.41
1:J:376:GLU:HB3	1:K:436:TYR:HE2	1.85	0.41
1:J:384:LEU:HD23	1:K:423:GLU:HB2	2.02	0.41
1:J:516:ARG:HB2	1:L:810:TRP:HA	2.02	0.41
1:J:782:ARG:O	1:J:782:ARG:HG3	2.20	0.41
1:K:136:ARG:O	1:K:279:VAL:HG23	2.20	0.41
1:K:323:ASN:HD22	1:K:324:ALA:H	1.67	0.41
1:L:388:GLN:HA	1:L:388:GLN:OE1	2.20	0.41
1:L:630:ARG:HB3	1:L:859:ALA:HA	2.01	0.41
1:L:640:LEU:HG	1:L:641:THR:N	2.35	0.41
2:M:94:ASP:OD1	2:M:95:PHE:CE2	2.73	0.41
2:M:166:GLU:O	2:M:170:ILE:HG13	2.20	0.41
2:M:194:ASP:HB2	2:M:300:HIS:CE1	2.54	0.41
3:N:97:LEU:CB	3:P:97:LEU:HD23	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:77:GLU:CD	3:O:80:LEU:HD13	2.39	0.41
3:Q:19:TRP:CD2	3:Q:19:TRP:O	2.74	0.41
1:A:328:LEU:HD22	2:M:101:SER:O	2.20	0.41
1:B:630:ARG:NH2	1:J:83:ARG:HE	2.18	0.41
1:C:137:GLN:NE2	1:C:142:HIS:ND1	2.68	0.41
1:C:534:LEU:HA	1:C:605:PHE:CZ	2.55	0.41
1:C:541:TYR:CD1	1:C:541:TYR:N	2.88	0.41
1:D:116:TYR:HH	1:F:810:TRP:HZ2	1.67	0.41
1:D:121:TYR:HA	1:F:803:GLN:CD	2.40	0.41
1:D:691:TRP:CG	1:D:692:PRO:HA	2.54	0.41
1:F:293:PHE:HB2	1:F:558:THR:HG23	2.03	0.41
1:F:538:PRO:HD2	1:F:593:GLU:OE2	2.21	0.41
1:F:606:ASN:HB3	1:F:884:VAL:HG22	2.03	0.41
1:F:630:ARG:HG2	1:F:630:ARG:NH1	2.34	0.41
1:F:720:ASN:OD1	1:F:822:LYS:HA	2.19	0.41
1:G:107:LEU:HD12	1:G:108:ASP:N	2.35	0.41
1:G:276:ARG:O	1:G:281:GLY:HA3	2.20	0.41
1:G:302:GLY:N	1:G:334:GLU:OE2	2.54	0.41
1:H:231:LYS:HE3	1:H:231:LYS:HB3	1.92	0.41
1:H:782:ARG:O	1:H:782:ARG:HG3	2.20	0.41
1:H:873:THR:O	1:H:874:LEU:HD23	2.21	0.41
1:I:20:ALA:C	1:I:22:GLU:H	2.24	0.41
1:I:532:ARG:HD2	1:I:533:ASN:HD21	1.86	0.41
1:J:209:ASN:N	1:J:210:PRO:CD	2.82	0.41
1:J:529:PHE:CG	1:J:530:ALA:N	2.88	0.41
1:J:715:ASN:HA	1:J:721:MET:O	2.20	0.41
1:J:789:PHE:CE2	1:J:797:GLU:HG3	2.55	0.41
1:K:104:ARG:O	1:K:572:ILE:HD12	2.20	0.41
1:K:362:ASP:HB3	1:K:365:VAL:HG23	2.01	0.41
1:K:725:TRP:O	1:K:729:GLN:HG2	2.20	0.41
1:K:873:THR:O	1:K:874:LEU:HD23	2.21	0.41
3:N:42:GLN:N	3:N:42:GLN:CD	2.73	0.41
3:N:69:GLN:HG3	3:O:4:GLU:N	2.35	0.41
3:N:72:TYR:O	3:N:73:MET:SD	2.79	0.41
3:O:72:TYR:C	3:O:73:MET:HG3	2.39	0.41
3:O:86:ARG:O	3:O:90:LEU:HG	2.21	0.41
3:Q:57:ASN:O	3:Q:57:ASN:ND2	2.53	0.41
4:R:33:TRP:C	4:R:35:SER:N	2.74	0.41
1:A:789:PHE:CE2	1:A:797:GLU:HG3	2.55	0.41
1:A:813:ARG:HG2	1:A:813:ARG:O	2.20	0.41
1:B:172:LEU:HA	1:B:173:PRO:HD3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:337:TYR:HD1	1:B:532:ARG:NH2	2.19	0.41
1:B:396:VAL:CG2	1:B:405:ASN:HA	2.44	0.41
1:C:67:ARG:NH2	1:D:81:LYS:CE	2.80	0.41
1:C:99:THR:HG22	1:C:579:ALA:CB	2.50	0.41
1:C:293:PHE:HB2	1:C:558:THR:HG23	2.03	0.41
1:C:794:ALA:CB	1:C:795:PRO:CD	2.94	0.41
1:D:57:THR:HA	1:D:583:PRO:O	2.21	0.41
1:D:137:GLN:NE2	1:D:142:HIS:ND1	2.68	0.41
1:D:231:LYS:HG3	1:D:257:GLU:O	2.21	0.41
1:D:297:ARG:HG2	1:D:297:ARG:HH11	1.84	0.41
1:D:516:ARG:HB3	1:F:814:HIS:CE1	2.56	0.41
1:D:785:PRO:O	1:D:786:ALA:HB3	2.19	0.41
1:E:104:ARG:O	1:E:572:ILE:HD12	2.20	0.41
1:E:136:ARG:O	1:E:279:VAL:HG23	2.20	0.41
1:E:241:TYR:HD2	1:F:393:SER:HG	1.63	0.41
1:E:367:VAL:HA	1:E:487:SER:HB3	2.02	0.41
1:E:532:ARG:HD2	1:E:533:ASN:HD21	1.85	0.41
1:E:669:ASP:OD1	1:E:671:THR:HG23	2.20	0.41
1:F:144:ALA:O	1:F:145:GLN:HB2	2.21	0.41
1:F:643:LEU:HD21	1:F:672:PHE:CD1	2.56	0.41
1:G:13:MET:HG3	1:I:900:LEU:CD2	2.45	0.41
1:G:367:VAL:HA	1:G:487:SER:HB3	2.02	0.41
1:G:516:ARG:HB2	1:I:810:TRP:HA	2.02	0.41
1:H:104:ARG:O	1:H:572:ILE:HD12	2.20	0.41
1:H:209:ASN:N	1:H:210:PRO:CD	2.82	0.41
1:H:302:GLY:N	1:H:334:GLU:OE2	2.53	0.41
1:I:682:ALA:O	1:I:862:MET:HA	2.20	0.41
1:J:276:ARG:O	1:J:281:GLY:HA3	2.20	0.41
1:J:720:ASN:OD1	1:J:822:LYS:HA	2.20	0.41
1:J:817:ARG:HB2	1:J:818:ASP:H	1.63	0.41
1:K:804:LEU:HD11	1:L:222:PRO:CB	2.33	0.41
1:K:808:PRO:HG3	1:L:121:TYR:OH	2.21	0.41
1:L:643:LEU:HD21	1:L:672:PHE:CD1	2.55	0.41
2:M:446:LEU:HD23	2:M:447:GLY:O	2.20	0.41
3:P:8:TYR:HA	3:P:9:VAL:HA	1.73	0.41
3:P:86:ARG:O	3:P:90:LEU:HG	2.21	0.41
3:Q:72:TYR:C	3:Q:73:MET:HG3	2.39	0.41
1:A:508:ARG:O	1:A:511:LEU:HB3	2.20	0.41
1:B:490:VAL:HG22	1:B:490:VAL:O	2.21	0.41
1:B:789:PHE:HB3	1:B:792:CYS:HA	2.03	0.41
1:B:799:HIS:HE1	1:C:148:ALA:HB1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:810:TRP:HZ2	1:C:116:TYR:HH	1.65	0.41
1:C:144:ALA:O	1:C:145:GLN:HB2	2.21	0.41
1:C:176:ALA:HB1	1:C:181:GLN:CB	2.50	0.41
1:D:240:TYR:HD2	1:D:249:PRO:HB3	1.86	0.41
1:D:315:LEU:HD23	1:D:531:ILE:HG21	2.01	0.41
1:D:701:ASN:O	1:D:702:GLU:HB3	2.21	0.41
1:D:784:THR:HG22	1:D:784:THR:O	2.20	0.41
1:D:814:HIS:CE1	1:E:516:ARG:H	2.38	0.41
1:E:133:THR:HB	1:E:212:GLN:NE2	2.33	0.41
1:E:197:ALA:O	1:E:198:VAL:HB	2.20	0.41
1:E:362:ASP:HB3	1:E:365:VAL:HG23	2.01	0.41
1:E:384:LEU:CD2	1:F:423:GLU:HB2	2.50	0.41
1:E:782:ARG:O	1:E:782:ARG:HG3	2.20	0.41
1:E:810:TRP:C	1:E:814:HIS:HB2	2.41	0.41
1:F:20:ALA:C	1:F:22:GLU:H	2.24	0.41
1:F:208:ARG:NH1	1:F:208:ARG:HG2	2.34	0.41
1:F:849:GLN:HG2	1:F:849:GLN:O	2.21	0.41
1:G:75:ASP:HA	1:G:80:TYR:HD1	1.85	0.41
1:G:93:VAL:HG23	1:G:93:VAL:O	2.21	0.41
1:G:227:GLY:O	1:G:228:GLY:C	2.58	0.41
1:G:388:GLN:HA	1:G:388:GLN:OE1	2.20	0.41
1:G:516:ARG:HB3	1:I:814:HIS:CE1	2.56	0.41
1:G:767:ASN:CB	1:G:770:THR:HG23	2.46	0.41
1:G:809:HIS:HA	1:G:814:HIS:NE2	2.35	0.41
1:G:813:ARG:HG2	1:G:813:ARG:O	2.20	0.41
1:G:814:HIS:CE1	1:H:516:ARG:H	2.38	0.41
1:H:813:ARG:HH22	1:I:261:LEU:HB2	1.84	0.41
1:I:176:ALA:HB1	1:I:181:GLN:CB	2.50	0.41
1:I:388:GLN:OE1	1:I:388:GLN:HA	2.20	0.41
1:I:534:LEU:HA	1:I:605:PHE:CZ	2.55	0.41
1:I:538:PRO:HD2	1:I:593:GLU:OE2	2.21	0.41
1:I:794:ALA:CB	1:I:795:PRO:HD2	2.41	0.41
1:J:155:THR:HG21	1:J:163:LEU:HG	2.01	0.41
1:J:231:LYS:HE3	1:J:231:LYS:HB3	1.93	0.41
1:J:322:LEU:C	1:J:322:LEU:HD13	2.41	0.41
1:J:439:VAL:HG21	1:J:476:ILE:HG12	2.02	0.41
1:J:488:PRO:HG2	1:J:491:MET:HB2	2.01	0.41
1:J:646:ARG:HG3	1:J:647:GLU:N	2.36	0.41
1:J:761:MET:HE1	1:J:824:LEU:HD13	2.02	0.41
1:K:20:ALA:C	1:K:22:GLU:H	2.24	0.41
1:K:156:ILE:CD1	1:K:164:GLN:HE21	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:251:THR:HB	1:K:253:PHE:HE1	1.85	0.41
1:L:207:LEU:HA	1:L:256:GLU:O	2.21	0.41
1:L:328:LEU:HD12	1:L:901:ARG:HH21	1.85	0.41
1:L:480:VAL:O	1:L:480:VAL:HG23	2.21	0.41
1:L:785:PRO:O	1:L:786:ALA:HB3	2.20	0.41
2:M:280:GLU:HB3	2:M:285:LYS:HD2	2.02	0.41
3:N:97:LEU:CD2	3:P:97:LEU:HD23	1.59	0.41
3:O:23:VAL:HG22	3:O:26:LYS:HG2	1.98	0.41
3:O:30:ASN:H	3:O:34:GLY:N	2.08	0.41
3:O:42:GLN:N	3:O:42:GLN:CD	2.74	0.41
3:O:65:ARG:NH1	3:O:65:ARG:C	2.65	0.41
3:Q:72:TYR:O	3:Q:73:MET:SD	2.79	0.41
1:A:240:TYR:HD2	1:A:249:PRO:HB3	1.86	0.41
1:A:322:LEU:C	1:A:322:LEU:HD13	2.41	0.41
1:A:715:ASN:HA	1:A:721:MET:O	2.20	0.41
1:A:782:ARG:O	1:A:782:ARG:HG3	2.20	0.41
1:A:810:TRP:C	1:A:814:HIS:HB2	2.40	0.41
1:B:20:ALA:C	1:B:22:GLU:H	2.24	0.41
1:B:419:LEU:CD1	1:C:786:ALA:HB1	2.48	0.41
1:B:534:LEU:HD12	1:B:535:LEU:H	1.85	0.41
1:B:810:TRP:C	1:B:814:HIS:HB2	2.41	0.41
1:C:28:LEU:HD21	1:C:45:PHE:CZ	2.56	0.41
1:C:107:LEU:HD12	1:C:108:ASP:N	2.35	0.41
1:C:424:ILE:HG23	1:C:424:ILE:O	2.20	0.41
1:C:480:VAL:HG23	1:C:480:VAL:O	2.21	0.41
1:C:682:ALA:O	1:C:862:MET:HA	2.20	0.41
1:C:784:THR:HG22	1:C:784:THR:O	2.21	0.41
1:D:93:VAL:HG23	1:D:93:VAL:O	2.21	0.41
1:D:183:GLU:O	1:D:185:GLN:N	2.53	0.41
1:D:384:LEU:HD23	1:E:423:GLU:HB2	2.02	0.41
1:E:715:ASN:HA	1:E:721:MET:O	2.21	0.41
1:E:808:PRO:HG3	1:F:121:TYR:OH	2.21	0.41
1:F:541:TYR:CD1	1:F:541:TYR:N	2.88	0.41
1:F:669:ASP:OD1	1:F:671:THR:HG23	2.20	0.41
1:G:57:THR:HA	1:G:583:PRO:O	2.21	0.41
1:H:197:ALA:O	1:H:198:VAL:HB	2.20	0.41
1:H:208:ARG:NH1	1:H:208:ARG:HG2	2.35	0.41
1:H:297:ARG:HG2	1:H:297:ARG:HH11	1.84	0.41
1:H:799:HIS:HE1	1:I:148:ALA:HB1	1.86	0.41
1:H:821:ARG:O	3:Q:47:GLU:CA	2.69	0.41
1:I:529:PHE:CG	1:I:530:ALA:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:669:ASP:OD1	1:I:671:THR:HG23	2.20	0.41
1:J:115:PRO:O	1:L:483:GLY:HA2	2.19	0.41
1:J:767:ASN:CB	1:J:770:THR:HG23	2.46	0.41
1:J:784:THR:HG22	1:J:784:THR:O	2.20	0.41
1:J:813:ARG:HG2	1:J:813:ARG:O	2.20	0.41
1:J:882:PHE:O	1:J:901:ARG:HA	2.21	0.41
1:K:436:TYR:O	1:K:440:ALA:HB3	2.21	0.41
1:L:20:ALA:C	1:L:22:GLU:H	2.24	0.41
1:L:94:LEU:HD11	1:L:579:ALA:HB1	2.03	0.41
1:L:761:MET:HE3	1:L:824:LEU:HD13	2.02	0.41
1:L:849:GLN:HG2	1:L:849:GLN:O	2.20	0.41
2:M:90:VAL:HG13	2:M:91:GLN:N	2.31	0.41
2:M:349:TYR:CD1	2:M:373:VAL:HG11	2.55	0.41
3:O:57:ASN:O	3:O:57:ASN:ND2	2.53	0.41
3:O:72:TYR:O	3:O:73:MET:SD	2.79	0.41
3:Q:86:ARG:O	3:Q:90:LEU:HG	2.21	0.41
1:A:93:VAL:O	1:A:93:VAL:HG23	2.21	0.41
1:A:367:VAL:HA	1:A:487:SER:HB3	2.02	0.41
1:A:439:VAL:HG21	1:A:476:ILE:HG12	2.02	0.41
1:A:516:ARG:HB2	1:C:810:TRP:HA	2.02	0.41
1:B:142:HIS:HA	1:C:409:SER:HB2	2.03	0.41
1:B:208:ARG:NH1	1:B:208:ARG:HG2	2.36	0.41
1:B:436:TYR:O	1:B:440:ALA:HB3	2.21	0.41
1:B:725:TRP:O	1:B:729:GLN:HG2	2.20	0.41
1:B:808:PRO:HG3	1:C:121:TYR:OH	2.21	0.41
1:B:894:VAL:CG2	1:J:908:ASN:O	2.69	0.41
1:D:388:GLN:OE1	1:D:388:GLN:HA	2.20	0.41
1:E:249:PRO:HD3	1:F:403:TRP:CZ2	2.56	0.41
1:E:323:ASN:HD22	1:E:324:ALA:H	1.67	0.41
1:E:395:GLU:H	1:E:395:GLU:CD	2.19	0.41
1:E:490:VAL:HG22	1:E:490:VAL:O	2.21	0.41
1:E:780:ASN:ND2	1:F:226:HIS:O	2.53	0.41
1:G:207:LEU:HA	1:G:256:GLU:O	2.21	0.41
1:G:392:ARG:HD3	1:G:392:ARG:N	2.22	0.41
1:G:682:ALA:O	1:G:862:MET:HA	2.21	0.41
1:G:720:ASN:OD1	1:G:822:LYS:HA	2.20	0.41
1:G:882:PHE:O	1:G:901:ARG:HA	2.21	0.41
1:H:337:TYR:HD1	1:H:532:ARG:NH2	2.19	0.41
1:I:94:LEU:HD11	1:I:579:ALA:HB1	2.03	0.41
1:I:480:VAL:HG23	1:I:480:VAL:O	2.21	0.41
1:J:93:VAL:HG23	1:J:93:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:135:PHE:CE2	1:J:147:ILE:HG21	2.55	0.41
1:J:183:GLU:O	1:J:185:GLN:N	2.53	0.41
1:K:231:LYS:HE3	1:K:231:LYS:HB3	1.92	0.41
1:K:490:VAL:O	1:K:490:VAL:HG22	2.21	0.41
1:K:782:ARG:HG2	1:K:782:ARG:HH11	1.86	0.41
1:K:789:PHE:HB3	1:K:792:CYS:HA	2.03	0.41
1:L:156:ILE:CD1	1:L:164:GLN:HE21	2.31	0.41
1:L:605:PHE:CD1	1:L:605:PHE:N	2.89	0.41
1:L:877:VAL:HG12	1:L:878:LEU:N	2.35	0.41
2:M:90:VAL:CG1	2:M:91:GLN:H	2.30	0.41
3:N:86:ARG:O	3:N:90:LEU:HG	2.21	0.41
3:P:72:TYR:O	3:P:73:MET:SD	2.79	0.41
3:Q:83:LEU:O	3:Q:87:MET:HG2	2.21	0.41
1:A:94:LEU:HD11	1:A:579:ALA:HB1	2.03	0.41
1:A:121:TYR:HA	1:C:803:GLN:CD	2.40	0.41
1:A:144:ALA:O	1:A:145:GLN:HB2	2.21	0.41
1:A:276:ARG:O	1:A:281:GLY:HA3	2.20	0.41
1:A:302:GLY:N	1:A:334:GLU:OE2	2.54	0.41
1:A:366:ARG:HH11	1:A:496:PRO:HB3	1.86	0.41
1:A:393:SER:O	1:A:394:HIS:CG	2.74	0.41
1:A:516:ARG:HB3	1:C:814:HIS:CE1	2.56	0.41
1:A:669:ASP:OD1	1:A:671:THR:HG23	2.21	0.41
1:A:720:ASN:OD1	1:A:822:LYS:HA	2.20	0.41
1:A:813:ARG:NH1	1:B:261:LEU:HD12	2.36	0.41
1:B:384:LEU:HD23	1:C:423:GLU:HB2	2.02	0.41
1:B:472:VAL:CG2	1:B:474:GLY:H	2.34	0.41
1:B:669:ASP:OD1	1:B:671:THR:HG23	2.19	0.41
1:B:782:ARG:O	1:B:782:ARG:HG3	2.20	0.41
1:B:823:PHE:C	1:B:824:LEU:HD12	2.41	0.41
1:B:859:ALA:CB	1:D:630:ARG:HH22	1.61	0.41
1:B:873:THR:O	1:B:874:LEU:HD23	2.21	0.41
1:B:909:ALA:HB1	1:J:83:ARG:HA	1.94	0.41
1:C:20:ALA:C	1:C:22:GLU:H	2.24	0.41
1:C:67:ARG:HH11	1:C:576:ASN:ND2	2.16	0.41
1:C:168:ASP:HB2	1:C:174:VAL:CB	2.39	0.41
1:C:294:ILE:HA	1:C:556:GLN:O	2.20	0.41
1:C:605:PHE:CD1	1:C:605:PHE:N	2.89	0.41
1:C:606:ASN:HB3	1:C:884:VAL:HG22	2.03	0.41
1:C:785:PRO:O	1:C:786:ALA:HB3	2.20	0.41
1:D:133:THR:HB	1:D:212:GLN:NE2	2.33	0.41
1:D:197:ALA:O	1:D:198:VAL:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:403:TRP:CZ2	1:F:249:PRO:HD3	2.56	0.41
1:D:782:ARG:O	1:D:782:ARG:HG3	2.20	0.41
1:D:817:ARG:CD	1:E:517:PHE:HB2	2.48	0.41
1:E:76:THR:HG23	1:G:658:TYR:HE1	1.79	0.41
1:E:142:HIS:HA	1:F:409:SER:HB2	2.02	0.41
1:E:170:ARG:HG3	1:E:170:ARG:NH1	2.36	0.41
1:E:274:ALA:C	1:E:276:ARG:N	2.73	0.41
1:E:328:LEU:HD12	1:E:901:ARG:HH21	1.86	0.41
1:E:376:GLU:CD	1:E:376:GLU:H	2.24	0.41
1:E:380:TYR:HB2	1:E:382:PHE:CZ	2.55	0.41
1:E:472:VAL:CG2	1:E:474:GLY:H	2.34	0.41
1:E:541:TYR:CD1	1:E:541:TYR:N	2.88	0.41
1:E:651:LEU:CD1	1:E:667:TYR:HE2	2.33	0.41
1:E:799:HIS:HE1	1:F:148:ALA:HB1	1.86	0.41
1:E:813:ARG:HH22	1:F:261:LEU:HB2	1.84	0.41
1:E:877:VAL:HG12	1:E:878:LEU:N	2.36	0.41
1:F:106:THR:HG22	1:F:519:ASP:OD1	2.21	0.41
1:F:395:GLU:H	1:F:395:GLU:CD	2.21	0.41
1:F:439:VAL:HG21	1:F:476:ILE:HG12	2.02	0.41
1:F:480:VAL:HG23	1:F:480:VAL:O	2.21	0.41
1:F:784:THR:HG22	1:F:784:THR:O	2.21	0.41
1:G:67:ARG:HH11	1:G:576:ASN:ND2	2.12	0.41
1:G:149:GLN:NE2	1:H:417:GLY:O	2.53	0.41
1:G:231:LYS:HG3	1:G:257:GLU:O	2.21	0.41
1:G:362:ASP:HB3	1:G:365:VAL:HG23	2.02	0.41
1:G:392:ARG:H	1:G:392:ARG:CD	2.26	0.41
1:G:393:SER:O	1:G:394:HIS:CG	2.74	0.41
1:G:403:TRP:CZ2	1:I:249:PRO:HD3	2.56	0.41
1:G:605:PHE:CD1	1:G:605:PHE:N	2.89	0.41
1:G:640:LEU:HG	1:G:641:THR:N	2.35	0.41
1:H:67:ARG:NH1	1:H:576:ASN:ND2	2.69	0.41
1:H:170:ARG:HG3	1:H:170:ARG:NH1	2.36	0.41
1:H:274:ALA:C	1:H:276:ARG:N	2.73	0.41
1:H:376:GLU:H	1:H:376:GLU:CD	2.24	0.41
1:H:425:ASN:OD1	1:H:428:ALA:HB2	2.20	0.41
1:H:488:PRO:HG2	1:H:491:MET:HB2	2.02	0.41
1:H:808:PRO:HG3	1:I:121:TYR:OH	2.21	0.41
1:H:817:ARG:NE	1:H:817:ARG:N	2.53	0.41
1:H:817:ARG:HB2	1:H:818:ASP:H	1.70	0.41
1:H:823:PHE:C	1:H:824:LEU:HD12	2.42	0.41
1:I:28:LEU:HD21	1:I:45:PHE:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:144:ALA:O	1:I:145:GLN:HB2	2.21	0.41
1:I:207:LEU:HA	1:I:256:GLU:O	2.21	0.41
1:I:401:GLN:HB2	1:I:402:GLN:H	1.51	0.41
1:I:606:ASN:HB3	1:I:884:VAL:HG22	2.03	0.41
1:I:640:LEU:HG	1:I:641:THR:N	2.35	0.41
1:I:813:ARG:O	1:I:813:ARG:HG2	2.21	0.41
1:I:849:GLN:HG2	1:I:849:GLN:O	2.21	0.41
1:J:13:MET:HG3	1:L:900:LEU:CD2	2.45	0.41
1:J:274:ALA:C	1:J:276:ARG:N	2.72	0.41
1:J:393:SER:O	1:J:394:HIS:CG	2.74	0.41
1:K:109:ARG:HB3	1:K:113:PHE:HB2	2.02	0.41
1:K:197:ALA:O	1:K:198:VAL:HB	2.20	0.41
1:K:268:VAL:HG12	1:K:285:HIS:C	2.42	0.41
1:K:482:ILE:HG13	1:K:482:ILE:O	2.21	0.41
1:K:782:ARG:O	1:K:782:ARG:HG3	2.21	0.41
1:K:784:THR:OG1	1:L:122:ASN:HA	2.21	0.41
1:K:785:PRO:O	1:K:786:ALA:HB3	2.20	0.41
1:L:28:LEU:HD21	1:L:45:PHE:CZ	2.56	0.41
1:L:197:ALA:O	1:L:198:VAL:HB	2.21	0.41
1:L:538:PRO:HD2	1:L:593:GLU:OE2	2.21	0.41
2:M:86:LEU:HD23	2:M:451:ARG:HA	2.03	0.41
2:M:212:THR:CG2	2:M:276:MET:HE1	2.49	0.41
2:M:280:GLU:HG2	2:M:285:LYS:HZ3	1.85	0.41
2:M:357:LEU:HD23	2:M:358:ASP:O	2.20	0.41
2:M:357:LEU:HD23	2:M:358:ASP:N	2.36	0.41
2:M:368:THR:HA	2:M:371:TYR:CZ	2.55	0.41
3:N:83:LEU:O	3:N:87:MET:HG2	2.21	0.41
3:N:85:ARG:O	3:N:89:LEU:HG	2.21	0.41
3:N:90:LEU:O	3:N:93:SER:OG	2.28	0.41
3:Q:75:LEU:HD23	3:Q:77:GLU:CD	2.38	0.41
3:Q:88:ASP:O	3:Q:92:GLU:HG3	2.21	0.41
4:R:173:GLY:O	4:R:177:PHE:HB2	2.21	0.41
1:A:57:THR:HA	1:A:583:PRO:O	2.21	0.41
1:A:115:PRO:O	1:C:483:GLY:HA2	2.19	0.41
1:A:380:TYR:HB2	1:A:382:PHE:CZ	2.56	0.41
1:A:396:VAL:HG22	1:A:405:ASN:CA	2.45	0.41
1:A:472:VAL:CG2	1:A:474:GLY:H	2.34	0.41
1:A:646:ARG:HG3	1:A:647:GLU:N	2.36	0.41
1:A:807:PRO:HA	1:A:808:PRO:HD3	1.94	0.41
1:B:57:THR:HA	1:B:583:PRO:O	2.20	0.41
1:B:93:VAL:HG23	1:B:93:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:170:ARG:CG	1:B:171:GLN:N	2.81	0.41
1:B:482:ILE:O	1:B:482:ILE:HG13	2.21	0.41
1:B:784:THR:OG1	1:C:122:ASN:HA	2.21	0.41
1:B:785:PRO:C	1:B:787:TYR:N	2.74	0.41
1:C:472:VAL:CG2	1:C:474:GLY:H	2.34	0.41
1:C:538:PRO:HD2	1:C:593:GLU:OE2	2.20	0.41
1:D:75:ASP:HA	1:D:80:TYR:HD1	1.85	0.41
1:D:380:TYR:HB2	1:D:382:PHE:CZ	2.56	0.41
1:D:646:ARG:HG3	1:D:647:GLU:N	2.36	0.41
1:D:826:ASP:O	1:D:827:ARG:HG2	2.21	0.41
1:E:302:GLY:N	1:E:334:GLU:OE2	2.53	0.41
1:E:823:PHE:C	1:E:824:LEU:HD12	2.42	0.41
1:F:28:LEU:HD21	1:F:45:PHE:CZ	2.56	0.41
1:F:207:LEU:HA	1:F:256:GLU:O	2.21	0.41
1:G:135:PHE:CE2	1:G:147:ILE:HG21	2.55	0.41
1:G:830:TRP:HA	1:G:830:TRP:HE3	1.86	0.41
1:G:896:GLU:OE2	4:R:38:PRO:HD2	2.21	0.41
1:H:57:THR:HA	1:H:583:PRO:O	2.20	0.41
1:H:93:VAL:O	1:H:93:VAL:HG23	2.21	0.41
1:H:227:GLY:O	1:H:228:GLY:C	2.60	0.41
1:H:784:THR:OG1	1:I:122:ASN:HA	2.21	0.41
1:H:789:PHE:HB3	1:H:792:CYS:HA	2.03	0.41
1:H:877:VAL:HG12	1:H:878:LEU:N	2.36	0.41
1:I:99:THR:HG22	1:I:579:ALA:CB	2.50	0.41
1:J:302:GLY:N	1:J:334:GLU:OE2	2.54	0.41
1:J:669:ASP:OD1	1:J:671:THR:HG23	2.21	0.41
1:J:701:ASN:O	1:J:702:GLU:HB3	2.21	0.41
1:J:830:TRP:HA	1:J:830:TRP:HE3	1.86	0.41
1:K:93:VAL:HG23	1:K:93:VAL:O	2.21	0.41
1:K:229:ILE:O	1:K:229:ILE:HG13	2.21	0.41
1:K:302:GLY:N	1:K:334:GLU:OE2	2.53	0.41
1:K:780:ASN:ND2	1:L:226:HIS:O	2.53	0.41
1:K:877:VAL:HG12	1:K:878:LEU:N	2.36	0.41
1:L:669:ASP:OD1	1:L:671:THR:HG23	2.20	0.41
3:O:85:ARG:O	3:O:89:LEU:HG	2.21	0.41
1:A:384:LEU:HD23	1:B:423:GLU:HB2	2.02	0.40
1:B:104:ARG:O	1:B:572:ILE:HD12	2.20	0.40
1:B:425:ASN:OD1	1:B:428:ALA:HB2	2.20	0.40
1:B:782:ARG:HG2	1:B:782:ARG:HH11	1.86	0.40
1:C:88:VAL:C	1:D:321:GLN:HE22	2.25	0.40
1:C:163:LEU:HD22	1:C:203:GLY:HA3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:231:LYS:HG3	1:C:257:GLU:O	2.21	0.40
1:C:376:GLU:H	1:C:376:GLU:CD	2.23	0.40
1:C:532:ARG:HD2	1:C:533:ASN:HD21	1.86	0.40
1:C:643:LEU:HD21	1:C:672:PHE:CD1	2.56	0.40
1:D:144:ALA:O	1:D:145:GLN:HB2	2.21	0.40
1:D:322:LEU:HD13	1:D:322:LEU:C	2.41	0.40
1:D:424:ILE:O	1:D:424:ILE:HG23	2.21	0.40
1:D:715:ASN:HA	1:D:721:MET:O	2.20	0.40
1:E:67:ARG:NH1	1:E:576:ASN:HD22	2.18	0.40
1:E:605:PHE:CD1	1:E:605:PHE:N	2.89	0.40
1:E:784:THR:OG1	1:F:122:ASN:HA	2.21	0.40
1:E:789:PHE:HB3	1:E:792:CYS:HA	2.03	0.40
1:F:99:THR:HG22	1:F:579:ALA:CB	2.50	0.40
1:F:276:ARG:O	1:F:281:GLY:HA3	2.21	0.40
1:G:121:TYR:HA	1:I:803:GLN:CD	2.41	0.40
1:G:163:LEU:HD22	1:G:203:GLY:HA3	2.04	0.40
1:G:826:ASP:O	1:G:827:ARG:HG2	2.21	0.40
1:H:20:ALA:C	1:H:22:GLU:H	2.24	0.40
1:H:176:ALA:HB1	1:H:181:GLN:CB	2.51	0.40
1:H:605:PHE:CD1	1:H:605:PHE:N	2.89	0.40
1:H:715:ASN:HA	1:H:721:MET:O	2.21	0.40
1:I:106:THR:HG22	1:I:519:ASP:OD1	2.21	0.40
1:I:209:ASN:N	1:I:210:PRO:CD	2.82	0.40
1:I:276:ARG:O	1:I:281:GLY:HA3	2.21	0.40
1:I:782:ARG:HH11	1:I:782:ARG:HG2	1.87	0.40
1:J:380:TYR:HB2	1:J:382:PHE:CZ	2.56	0.40
1:J:403:TRP:CZ2	1:L:249:PRO:HD3	2.56	0.40
1:J:472:VAL:CG2	1:J:474:GLY:H	2.34	0.40
1:J:495:ASN:OD1	1:J:497:PHE:HB2	2.22	0.40
1:J:809:HIS:HA	1:J:814:HIS:NE2	2.35	0.40
1:J:813:ARG:NH1	1:K:261:LEU:HD12	2.36	0.40
1:J:814:HIS:CE1	1:K:516:ARG:H	2.38	0.40
1:K:180:TYR:CD1	1:K:226:HIS:HB3	2.57	0.40
1:K:322:LEU:C	1:K:322:LEU:HD13	2.41	0.40
1:K:425:ASN:OD1	1:K:428:ALA:HB2	2.20	0.40
1:K:495:ASN:OD1	1:K:497:PHE:HB2	2.22	0.40
1:L:144:ALA:O	1:L:145:GLN:HB2	2.21	0.40
1:L:293:PHE:HB2	1:L:558:THR:HG23	2.03	0.40
1:L:302:GLY:N	1:L:334:GLU:OE2	2.54	0.40
1:L:388:GLN:CG	1:L:420:PRO:HG3	2.46	0.40
1:L:405:ASN:ND2	1:L:407:ALA:H	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:472:VAL:CG2	1:L:474:GLY:H	2.34	0.40
1:L:784:THR:HG22	1:L:784:THR:O	2.21	0.40
3:N:90:LEU:HD21	3:P:90:LEU:HD21	0.85	0.40
3:O:81:GLY:O	3:O:85:ARG:HG3	2.21	0.40
3:P:81:GLY:O	3:P:85:ARG:HG3	2.21	0.40
3:Q:8:TYR:HA	3:Q:9:VAL:HA	1.73	0.40
3:Q:11:TYR:O	3:Q:11:TYR:CD1	2.74	0.40
3:Q:75:LEU:HD21	3:Q:76:VAL:HG23	2.00	0.40
1:A:667:TYR:HE1	1:A:876:TYR:CE1	2.39	0.40
1:A:701:ASN:O	1:A:702:GLU:HB3	2.21	0.40
1:A:877:VAL:HG12	1:A:878:LEU:N	2.36	0.40
1:B:541:TYR:CD1	1:B:541:TYR:N	2.88	0.40
1:C:694:ASN:HB3	1:C:696:ARG:NH1	2.37	0.40
1:D:813:ARG:NH1	1:E:261:LEU:HD12	2.36	0.40
1:E:156:ILE:CD1	1:E:164:GLN:HE21	2.32	0.40
1:E:180:TYR:CD1	1:E:226:HIS:HB3	2.57	0.40
1:E:227:GLY:O	1:E:228:GLY:C	2.60	0.40
1:F:302:GLY:N	1:F:334:GLU:OE2	2.54	0.40
1:F:534:LEU:HA	1:F:605:PHE:CZ	2.56	0.40
1:F:635:PHE:H	1:F:635:PHE:HD1	1.68	0.40
1:F:813:ARG:O	1:F:813:ARG:HG2	2.21	0.40
1:G:208:ARG:NH1	1:G:208:ARG:HG2	2.35	0.40
1:H:137:GLN:NE2	1:H:142:HIS:ND1	2.69	0.40
1:H:630:ARG:HB3	1:H:859:ALA:HA	2.01	0.40
1:H:768:PRO:CG	3:Q:59:HIS:H	2.35	0.40
1:H:782:ARG:HH11	1:H:782:ARG:HG2	1.86	0.40
1:I:337:TYR:HD1	1:I:532:ARG:NH2	2.19	0.40
1:I:537:LEU:HB3	1:I:538:PRO:CD	2.51	0.40
1:J:75:ASP:HA	1:J:80:TYR:HD1	1.86	0.40
1:J:144:ALA:O	1:J:145:GLN:HB2	2.21	0.40
1:J:826:ASP:O	1:J:827:ARG:HG2	2.21	0.40
1:J:877:VAL:HG12	1:J:878:LEU:N	2.36	0.40
1:K:208:ARG:NH1	1:K:208:ARG:HG2	2.35	0.40
1:K:328:LEU:HD12	1:K:901:ARG:HH21	1.86	0.40
1:K:388:GLN:OE1	1:K:388:GLN:HA	2.21	0.40
1:K:565:VAL:HA	3:P:64:ARG:HH12	1.87	0.40
1:K:810:TRP:C	1:K:814:HIS:HB2	2.41	0.40
1:K:817:ARG:NE	1:K:817:ARG:N	2.53	0.40
1:L:106:THR:HG22	1:L:519:ASP:OD1	2.21	0.40
1:L:393:SER:O	1:L:394:HIS:CG	2.74	0.40
1:L:495:ASN:OD1	1:L:497:PHE:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:675:SER:HB3	1:L:830:TRP:CE2	2.57	0.40
2:M:35:VAL:HA	2:M:36:PRO:HD2	1.97	0.40
2:M:50:ARG:HD2	2:M:106:GLU:OE1	2.22	0.40
2:M:64:TYR:N	2:M:64:TYR:CD1	2.90	0.40
3:N:11:TYR:CD1	3:N:11:TYR:O	2.74	0.40
3:N:41:SER:HG	3:N:72:TYR:HE2	1.63	0.40
3:P:42:GLN:N	3:P:42:GLN:CD	2.73	0.40
3:P:83:LEU:O	3:P:87:MET:HG2	2.21	0.40
3:P:87:MET:O	3:P:91:GLU:HG3	2.22	0.40
1:A:231:LYS:HE3	1:A:231:LYS:HB3	1.93	0.40
1:A:682:ALA:O	1:A:862:MET:HA	2.21	0.40
1:A:830:TRP:HA	1:A:830:TRP:HE3	1.86	0.40
1:B:392:ARG:H	1:B:392:ARG:CD	2.26	0.40
1:B:480:VAL:HG23	1:B:480:VAL:O	2.21	0.40
1:B:689:VAL:CG2	1:D:906:ALA:N	2.84	0.40
1:B:794:ALA:CB	1:B:795:PRO:CD	2.94	0.40
1:C:183:GLU:HB2	1:C:186:LEU:HD12	2.04	0.40
1:C:830:TRP:HA	1:C:830:TRP:HE3	1.86	0.40
1:D:143:PRO:HB2	1:E:408:ASN:HD22	1.87	0.40
1:D:376:GLU:HB3	1:E:436:TYR:HE2	1.86	0.40
1:D:393:SER:O	1:D:394:HIS:CG	2.74	0.40
1:D:396:VAL:CG1	1:D:403:TRP:HD1	2.23	0.40
1:D:605:PHE:CD1	1:D:605:PHE:N	2.89	0.40
1:D:720:ASN:OD1	1:D:822:LYS:HA	2.20	0.40
1:D:767:ASN:CB	1:D:770:THR:HG23	2.46	0.40
1:E:384:LEU:HD23	1:F:423:GLU:HB2	2.02	0.40
1:E:472:VAL:HG13	1:E:475:LEU:HD12	2.03	0.40
1:E:890:PRO:HB2	1:E:891:HIS:ND1	2.37	0.40
1:F:163:LEU:HD22	1:F:203:GLY:HA3	2.04	0.40
1:F:675:SER:HB3	1:F:830:TRP:CE2	2.57	0.40
1:G:322:LEU:HD13	1:G:322:LEU:C	2.41	0.40
1:G:396:VAL:HG22	1:G:405:ASN:CA	2.45	0.40
1:G:439:VAL:HG21	1:G:476:ILE:HG12	2.02	0.40
1:G:632:TRP:HE1	4:R:29:THR:HG23	1.87	0.40
1:G:646:ARG:HG3	1:G:647:GLU:N	2.36	0.40
1:G:669:ASP:OD1	1:G:671:THR:HG23	2.21	0.40
1:H:142:HIS:HA	1:I:409:SER:HB2	2.03	0.40
1:H:249:PRO:HD3	1:I:403:TRP:CZ2	2.56	0.40
1:H:328:LEU:HD12	1:H:901:ARG:HH21	1.86	0.40
1:H:785:PRO:C	1:H:787:TYR:N	2.74	0.40
1:I:107:LEU:HD12	1:I:108:ASP:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:293:PHE:HB2	1:I:558:THR:HG23	2.03	0.40
1:I:302:GLY:N	1:I:334:GLU:OE2	2.54	0.40
1:I:495:ASN:OD1	1:I:497:PHE:HB2	2.21	0.40
1:I:694:ASN:HB3	1:I:696:ARG:NH1	2.37	0.40
1:J:163:LEU:HD22	1:J:203:GLY:HA3	2.03	0.40
1:J:231:LYS:HG3	1:J:257:GLU:O	2.21	0.40
1:J:396:VAL:HG21	1:L:242:ARG:HH11	1.86	0.40
1:J:424:ILE:HG23	1:J:424:ILE:O	2.21	0.40
1:J:480:VAL:HG23	1:J:480:VAL:O	2.22	0.40
1:K:384:LEU:HD23	1:L:423:GLU:HB2	2.02	0.40
1:K:597:ARG:HG2	1:K:597:ARG:NH1	2.37	0.40
1:K:682:ALA:O	1:K:862:MET:HA	2.21	0.40
1:K:768:PRO:CG	3:O:58:LEU:CA	2.95	0.40
1:K:830:TRP:HA	1:K:830:TRP:HE3	1.86	0.40
1:K:890:PRO:HB2	1:K:891:HIS:ND1	2.36	0.40
1:L:532:ARG:HD2	1:L:533:ASN:HD21	1.86	0.40
1:L:606:ASN:HB3	1:L:884:VAL:HG22	2.02	0.40
3:N:81:GLY:O	3:N:85:ARG:HG3	2.21	0.40
3:O:19:TRP:O	3:O:19:TRP:CD2	2.74	0.40
3:O:65:ARG:HA	3:O:65:ARG:NE	2.09	0.40
1:A:163:LEU:HD22	1:A:203:GLY:HA3	2.04	0.40
1:A:424:ILE:HG23	1:A:424:ILE:O	2.21	0.40
1:A:784:THR:HG22	1:A:784:THR:O	2.20	0.40
1:B:180:TYR:CD1	1:B:226:HIS:HB3	2.56	0.40
1:B:268:VAL:HG12	1:B:285:HIS:C	2.42	0.40
1:B:396:VAL:CG1	1:B:403:TRP:HD1	2.23	0.40
1:B:452:HIS:O	1:B:454:ILE:HG13	2.22	0.40
1:B:653:SER:HA	1:J:78:TYR:CZ	2.42	0.40
1:B:682:ALA:O	1:B:862:MET:HA	2.21	0.40
1:C:172:LEU:HA	1:C:173:PRO:HD3	1.89	0.40
1:C:207:LEU:HA	1:C:256:GLU:O	2.21	0.40
1:C:537:LEU:HB3	1:C:538:PRO:CD	2.51	0.40
1:C:669:ASP:OD1	1:C:671:THR:HG23	2.20	0.40
1:C:873:THR:O	1:C:874:LEU:HD23	2.22	0.40
1:D:243:THR:HB	1:D:250:GLU:OE1	2.22	0.40
1:D:551:VAL:HG11	1:D:568:ALA:O	2.21	0.40
1:D:877:VAL:HG12	1:D:878:LEU:N	2.36	0.40
1:E:137:GLN:NE2	1:E:142:HIS:ND1	2.70	0.40
1:E:208:ARG:HH12	1:E:256:GLU:CA	2.26	0.40
1:E:482:ILE:HG13	1:E:482:ILE:O	2.21	0.40
1:E:694:ASN:HB3	1:E:696:ARG:NH1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:782:ARG:HG2	1:E:782:ARG:HH11	1.86	0.40
1:E:873:THR:O	1:E:874:LEU:HD23	2.21	0.40
1:F:472:VAL:CG2	1:F:474:GLY:H	2.34	0.40
1:F:605:PHE:N	1:F:605:PHE:CD1	2.89	0.40
1:F:785:PRO:C	1:F:787:TYR:N	2.75	0.40
1:F:830:TRP:HA	1:F:830:TRP:HE3	1.87	0.40
1:G:170:ARG:HG3	1:G:170:ARG:NH1	2.37	0.40
1:G:813:ARG:NH1	1:H:261:LEU:HD12	2.36	0.40
1:G:857:ALA:O	4:R:12:THR:CA	2.69	0.40
1:H:183:GLU:HA	1:H:184:PRO:HD3	1.92	0.40
1:H:436:TYR:O	1:H:440:ALA:HB3	2.21	0.40
1:H:472:VAL:CG2	1:H:474:GLY:H	2.34	0.40
1:H:490:VAL:O	1:H:490:VAL:HG22	2.21	0.40
1:H:686:ASP:OD1	1:H:686:ASP:O	2.40	0.40
1:H:761:MET:HE1	1:H:824:LEU:HD13	2.03	0.40
1:H:810:TRP:C	1:H:814:HIS:HB2	2.41	0.40
1:I:208:ARG:HH12	1:I:256:GLU:CA	2.27	0.40
1:I:231:LYS:HG3	1:I:257:GLU:O	2.21	0.40
1:I:465:TYR:CE1	1:I:469:ARG:HD3	2.57	0.40
1:I:605:PHE:CD1	1:I:605:PHE:N	2.89	0.40
1:J:57:THR:HA	1:J:583:PRO:O	2.21	0.40
1:J:544:GLU:HG2	1:J:545:TRP:N	2.37	0.40
1:J:605:PHE:CD1	1:J:605:PHE:N	2.89	0.40
1:J:786:ALA:HB2	1:J:799:HIS:HA	2.02	0.40
1:K:137:GLN:NE2	1:K:142:HIS:ND1	2.70	0.40
1:K:249:PRO:HD3	1:L:403:TRP:CZ2	2.56	0.40
1:K:650:ALA:HB1	3:P:20:SER:CB	2.48	0.40
1:L:32:ALA:HB2	1:L:41:ILE:HD11	2.02	0.40
1:L:813:ARG:HG2	1:L:813:ARG:O	2.21	0.40
2:M:63:ILE:HD12	2:M:355:MET:SD	2.62	0.40
2:M:72:ASP:HB3	2:M:97:PRO:HB3	2.02	0.40
2:M:128:ILE:O	2:M:129:THR:HG23	2.22	0.40
2:M:208:TYR:CZ	2:M:213:GLN:HA	2.55	0.40
2:M:304:ASP:HB3	2:M:305:PRO:HD3	2.02	0.40
3:Q:81:GLY:O	3:Q:85:ARG:HG3	2.21	0.40
1:A:143:PRO:HB2	1:B:408:ASN:HD22	1.87	0.40
1:A:640:LEU:HG	1:A:641:THR:H	1.87	0.40
1:A:779:VAL:HG23	1:A:780:ASN:OD1	2.22	0.40
1:A:817:ARG:CD	1:B:517:PHE:HB2	2.48	0.40
1:B:176:ALA:HB1	1:B:181:GLN:CB	2.52	0.40
1:B:229:ILE:O	1:B:229:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:328:LEU:HD12	1:B:901:ARG:HH21	1.86	0.40
1:C:393:SER:O	1:C:394:HIS:CG	2.75	0.40
1:C:395:GLU:H	1:C:395:GLU:CD	2.21	0.40
1:C:399:ASN:O	1:C:400:GLN:CB	2.70	0.40
1:D:94:LEU:HD11	1:D:579:ALA:HB1	2.04	0.40
1:D:302:GLY:N	1:D:334:GLU:OE2	2.54	0.40
1:D:334:GLU:HA	1:D:334:GLU:OE1	2.21	0.40
1:D:337:TYR:HD1	1:D:532:ARG:NH2	2.15	0.40
1:D:544:GLU:HG2	1:D:545:TRP:N	2.37	0.40
1:D:786:ALA:HB2	1:D:799:HIS:HA	2.03	0.40
1:D:882:PHE:O	1:D:901:ARG:HA	2.21	0.40
1:F:322:LEU:HD13	1:F:322:LEU:C	2.42	0.40
1:F:537:LEU:HB3	1:F:538:PRO:CD	2.51	0.40
1:G:472:VAL:CG2	1:G:474:GLY:H	2.34	0.40
1:H:206:VAL:HG22	1:H:207:LEU:O	2.22	0.40
1:H:229:ILE:HG13	1:H:229:ILE:O	2.21	0.40
1:H:388:GLN:HA	1:H:388:GLN:OE1	2.22	0.40
1:H:482:ILE:HG13	1:H:482:ILE:O	2.21	0.40
1:H:780:ASN:ND2	1:I:226:HIS:O	2.53	0.40
1:H:783:THR:HG22	1:H:803:GLN:NE2	2.36	0.40
1:H:807:PRO:HA	1:H:808:PRO:HD3	1.93	0.40
1:I:109:ARG:HH21	1:I:512:LEU:HD12	1.87	0.40
1:J:208:ARG:NH1	1:J:208:ARG:HG2	2.35	0.40
1:J:682:ALA:O	1:J:862:MET:HA	2.21	0.40
1:K:206:VAL:HG22	1:K:207:LEU:O	2.22	0.40
1:L:57:THR:HA	1:L:583:PRO:O	2.22	0.40
1:L:548:ARG:C	1:L:554:ILE:HD11	2.42	0.40
1:L:694:ASN:HB3	1:L:696:ARG:NH1	2.37	0.40
3:N:19:TRP:O	3:N:19:TRP:CD2	2.74	0.40
3:N:90:LEU:HD21	3:P:90:LEU:HD11	1.95	0.40
3:N:97:LEU:HB3	3:P:97:LEU:HD23	2.04	0.40
3:O:35:VAL:H	3:O:64:ARG:CD	2.31	0.40
3:O:77:GLU:CA	3:O:80:LEU:HD13	2.47	0.40
3:Q:85:ARG:O	3:Q:89:LEU:HG	2.21	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	901/911 (99%)	722 (80%)	132 (15%)	47 (5%)	2	22
1	B	901/911 (99%)	722 (80%)	133 (15%)	46 (5%)	2	22
1	C	901/911 (99%)	726 (81%)	131 (14%)	44 (5%)	2	23
1	D	901/911 (99%)	720 (80%)	134 (15%)	47 (5%)	2	22
1	E	901/911 (99%)	722 (80%)	132 (15%)	47 (5%)	2	22
1	F	901/911 (99%)	726 (81%)	131 (14%)	44 (5%)	2	23
1	G	901/911 (99%)	721 (80%)	133 (15%)	47 (5%)	2	22
1	H	901/911 (99%)	723 (80%)	131 (14%)	47 (5%)	2	22
1	I	901/911 (99%)	726 (81%)	131 (14%)	44 (5%)	2	23
1	J	902/911 (99%)	722 (80%)	133 (15%)	47 (5%)	2	22
1	K	901/911 (99%)	723 (80%)	131 (14%)	47 (5%)	2	22
1	L	901/911 (99%)	726 (81%)	131 (14%)	44 (5%)	2	23
2	M	448/482 (93%)	321 (72%)	90 (20%)	37 (8%)	1	13
3	N	105/125 (84%)	64 (61%)	26 (25%)	15 (14%)	0	4
3	O	105/125 (84%)	64 (61%)	26 (25%)	15 (14%)	0	4
3	P	105/125 (84%)	64 (61%)	26 (25%)	15 (14%)	0	4
3	Q	105/125 (84%)	64 (61%)	26 (25%)	15 (14%)	0	4
4	R	99/216 (46%)	80 (81%)	12 (12%)	7 (7%)	1	16
All	All	11780/12130 (97%)	9336 (79%)	1789 (15%)	655 (6%)	3	21

All (655) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	138	ALA
1	A	140	ASN
1	A	162	ASP
1	A	169	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	170	ARG
1	A	387	VAL
1	A	403	TRP
1	A	792	CYS
1	B	138	ALA
1	B	140	ASN
1	B	162	ASP
1	B	169	GLU
1	B	170	ARG
1	B	387	VAL
1	B	403	TRP
1	B	792	CYS
1	C	138	ALA
1	C	140	ASN
1	C	162	ASP
1	C	169	GLU
1	C	170	ARG
1	C	387	VAL
1	C	403	TRP
1	C	792	CYS
1	C	794	ALA
1	D	138	ALA
1	D	140	ASN
1	D	162	ASP
1	D	169	GLU
1	D	170	ARG
1	D	387	VAL
1	D	403	TRP
1	D	792	CYS
1	E	138	ALA
1	E	140	ASN
1	E	162	ASP
1	E	169	GLU
1	E	170	ARG
1	E	387	VAL
1	E	403	TRP
1	E	792	CYS
1	F	138	ALA
1	F	140	ASN
1	F	162	ASP
1	F	169	GLU
1	F	170	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	F	387	VAL
1	F	403	TRP
1	F	792	CYS
1	F	794	ALA
1	G	138	ALA
1	G	140	ASN
1	G	162	ASP
1	G	169	GLU
1	G	170	ARG
1	G	387	VAL
1	G	403	TRP
1	G	792	CYS
1	H	138	ALA
1	H	140	ASN
1	H	162	ASP
1	H	169	GLU
1	H	170	ARG
1	H	387	VAL
1	H	403	TRP
1	H	792	CYS
1	I	138	ALA
1	I	140	ASN
1	I	162	ASP
1	I	169	GLU
1	I	170	ARG
1	I	387	VAL
1	I	403	TRP
1	I	792	CYS
1	I	794	ALA
1	J	138	ALA
1	J	140	ASN
1	J	162	ASP
1	J	169	GLU
1	J	170	ARG
1	J	387	VAL
1	J	403	TRP
1	J	792	CYS
1	K	138	ALA
1	K	140	ASN
1	K	162	ASP
1	K	169	GLU
1	K	170	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	K	387	VAL
1	K	403	TRP
1	K	792	CYS
1	L	138	ALA
1	L	140	ASN
1	L	162	ASP
1	L	169	GLU
1	L	170	ARG
1	L	387	VAL
1	L	403	TRP
1	L	792	CYS
1	L	794	ALA
2	M	44	ALA
2	M	74	GLN
2	M	75	THR
2	M	93	SER
2	M	97	PRO
2	M	139	VAL
2	M	285	LYS
2	M	286	THR
2	M	310	ASN
3	N	7	ILE
3	N	68	ASP
3	O	7	ILE
3	O	68	ASP
3	P	7	ILE
3	P	68	ASP
3	Q	7	ILE
3	Q	68	ASP
4	R	187	LEU
4	R	191	SER
1	A	155	THR
1	A	198	VAL
1	A	228	GLY
1	A	394	HIS
1	A	405	ASN
1	A	793	ARG
1	A	794	ALA
1	B	149	GLN
1	B	155	THR
1	B	198	VAL
1	B	228	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	394	HIS
1	B	405	ASN
1	B	793	ARG
1	C	145	GLN
1	C	155	THR
1	C	198	VAL
1	C	228	GLY
1	C	394	HIS
1	C	405	ASN
1	C	793	ARG
1	D	155	THR
1	D	198	VAL
1	D	228	GLY
1	D	394	HIS
1	D	405	ASN
1	D	793	ARG
1	D	794	ALA
1	E	149	GLN
1	E	155	THR
1	E	198	VAL
1	E	228	GLY
1	E	394	HIS
1	E	405	ASN
1	E	793	ARG
1	F	145	GLN
1	F	155	THR
1	F	198	VAL
1	F	228	GLY
1	F	394	HIS
1	F	405	ASN
1	F	793	ARG
1	G	155	THR
1	G	198	VAL
1	G	228	GLY
1	G	394	HIS
1	G	405	ASN
1	G	793	ARG
1	G	794	ALA
1	H	149	GLN
1	H	155	THR
1	H	198	VAL
1	H	228	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	394	HIS
1	H	405	ASN
1	H	793	ARG
1	I	145	GLN
1	I	155	THR
1	I	198	VAL
1	I	228	GLY
1	I	394	HIS
1	I	405	ASN
1	I	793	ARG
1	J	155	THR
1	J	198	VAL
1	J	228	GLY
1	J	394	HIS
1	J	405	ASN
1	J	793	ARG
1	J	794	ALA
1	K	149	GLN
1	K	155	THR
1	K	198	VAL
1	K	228	GLY
1	K	394	HIS
1	K	405	ASN
1	K	793	ARG
1	L	145	GLN
1	L	155	THR
1	L	198	VAL
1	L	228	GLY
1	L	394	HIS
1	L	405	ASN
1	L	793	ARG
2	M	54	LEU
2	M	197	VAL
2	M	360	VAL
2	M	370	ASN
3	N	33	GLY
3	N	40	ASN
3	N	56	ASP
3	N	69	GLN
3	O	33	GLY
3	O	40	ASN
3	O	56	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	O	69	GLN
3	P	33	GLY
3	P	40	ASN
3	P	56	ASP
3	P	69	GLN
3	Q	33	GLY
3	Q	40	ASN
3	Q	56	ASP
3	Q	69	GLN
4	R	189	PRO
4	R	199	ASP
1	A	135	PHE
1	A	145	GLN
1	A	263	PRO
1	A	277	ALA
1	A	409	SER
1	A	476	ILE
1	A	478	THR
1	A	688	SER
1	B	145	GLN
1	B	148	ALA
1	B	263	PRO
1	B	277	ALA
1	B	408	ASN
1	B	409	SER
1	B	478	THR
1	B	688	SER
1	C	36	GLU
1	C	148	ALA
1	C	263	PRO
1	C	277	ALA
1	C	409	SER
1	C	478	THR
1	C	673	TYR
1	C	688	SER
1	D	135	PHE
1	D	145	GLN
1	D	263	PRO
1	D	277	ALA
1	D	409	SER
1	D	476	ILE
1	D	478	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	D	688	SER
1	E	145	GLN
1	E	148	ALA
1	E	263	PRO
1	E	277	ALA
1	E	408	ASN
1	E	409	SER
1	E	478	THR
1	E	688	SER
1	F	148	ALA
1	F	263	PRO
1	F	277	ALA
1	F	409	SER
1	F	478	THR
1	F	673	TYR
1	F	688	SER
1	G	135	PHE
1	G	145	GLN
1	G	263	PRO
1	G	277	ALA
1	G	409	SER
1	G	476	ILE
1	G	478	THR
1	G	688	SER
1	H	145	GLN
1	H	148	ALA
1	H	263	PRO
1	H	277	ALA
1	H	408	ASN
1	H	409	SER
1	H	478	THR
1	H	688	SER
1	I	148	ALA
1	I	263	PRO
1	I	277	ALA
1	I	409	SER
1	I	478	THR
1	I	673	TYR
1	I	688	SER
1	J	135	PHE
1	J	145	GLN
1	J	263	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	J	277	ALA
1	J	409	SER
1	J	476	ILE
1	J	478	THR
1	J	688	SER
1	K	145	GLN
1	K	148	ALA
1	K	263	PRO
1	K	277	ALA
1	K	408	ASN
1	K	409	SER
1	K	478	THR
1	K	688	SER
1	L	148	ALA
1	L	263	PRO
1	L	277	ALA
1	L	409	SER
1	L	478	THR
1	L	673	TYR
1	L	688	SER
2	M	79	GLN
2	M	163	ASN
2	M	205	SER
2	M	311	GLU
3	N	18	LYS
3	N	41	SER
3	O	18	LYS
3	O	41	SER
3	P	18	LYS
3	P	41	SER
3	Q	18	LYS
3	Q	41	SER
4	R	33	TRP
1	A	127	LYS
1	A	144	ALA
1	A	148	ALA
1	A	168	ASP
1	A	272	PRO
1	A	358	MET
1	A	390	GLY
1	A	426	LEU
1	A	673	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	36	GLU
1	B	127	LYS
1	B	135	PHE
1	B	144	ALA
1	B	168	ASP
1	B	272	PRO
1	B	358	MET
1	B	390	GLY
1	B	399	ASN
1	B	426	LEU
1	B	673	TYR
1	B	711	GLY
1	C	127	LYS
1	C	135	PHE
1	C	144	ALA
1	C	168	ASP
1	C	272	PRO
1	C	347	ARG
1	C	390	GLY
1	C	399	ASN
1	C	408	ASN
1	C	476	ILE
1	D	127	LYS
1	D	144	ALA
1	D	148	ALA
1	D	168	ASP
1	D	272	PRO
1	D	358	MET
1	D	390	GLY
1	D	399	ASN
1	D	426	LEU
1	D	673	TYR
1	E	36	GLU
1	E	127	LYS
1	E	135	PHE
1	E	144	ALA
1	E	168	ASP
1	E	272	PRO
1	E	358	MET
1	E	390	GLY
1	E	399	ASN
1	E	426	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	E	673	TYR
1	E	711	GLY
1	F	36	GLU
1	F	127	LYS
1	F	135	PHE
1	F	144	ALA
1	F	168	ASP
1	F	272	PRO
1	F	347	ARG
1	F	390	GLY
1	F	399	ASN
1	F	408	ASN
1	F	476	ILE
1	G	127	LYS
1	G	144	ALA
1	G	148	ALA
1	G	168	ASP
1	G	272	PRO
1	G	358	MET
1	G	390	GLY
1	G	399	ASN
1	G	426	LEU
1	G	673	TYR
1	H	36	GLU
1	H	127	LYS
1	H	135	PHE
1	H	144	ALA
1	H	168	ASP
1	H	272	PRO
1	H	358	MET
1	H	390	GLY
1	H	399	ASN
1	H	426	LEU
1	H	673	TYR
1	H	711	GLY
1	I	36	GLU
1	I	127	LYS
1	I	135	PHE
1	I	144	ALA
1	I	168	ASP
1	I	272	PRO
1	I	347	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	I	390	GLY
1	I	408	ASN
1	I	476	ILE
1	J	127	LYS
1	J	144	ALA
1	J	148	ALA
1	J	154	ALA
1	J	168	ASP
1	J	272	PRO
1	J	358	MET
1	J	390	GLY
1	J	399	ASN
1	J	426	LEU
1	J	673	TYR
1	K	36	GLU
1	K	127	LYS
1	K	135	PHE
1	K	144	ALA
1	K	168	ASP
1	K	272	PRO
1	K	358	MET
1	K	390	GLY
1	K	399	ASN
1	K	426	LEU
1	K	673	TYR
1	K	711	GLY
1	L	36	GLU
1	L	127	LYS
1	L	135	PHE
1	L	144	ALA
1	L	168	ASP
1	L	272	PRO
1	L	347	ARG
1	L	390	GLY
1	L	399	ASN
1	L	408	ASN
1	L	476	ILE
2	M	145	LYS
2	M	165	SER
2	M	340	ASP
3	N	15	ARG
3	N	27	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	63	ALA
3	N	66	PRO
3	O	15	ARG
3	O	27	THR
3	O	63	ALA
3	O	66	PRO
3	P	15	ARG
3	P	27	THR
3	P	63	ALA
3	P	66	PRO
3	Q	15	ARG
3	Q	27	THR
3	Q	63	ALA
3	Q	66	PRO
4	R	190	TYR
4	R	192	GLY
1	A	36	GLU
1	A	154	ALA
1	A	184	PRO
1	A	347	ARG
1	A	370	ASN
1	A	399	ASN
1	A	408	ASN
1	A	806	LEU
1	B	96	MET
1	B	184	PRO
1	B	347	ARG
1	B	794	ALA
1	B	806	LEU
1	C	184	PRO
1	C	358	MET
1	C	806	LEU
1	D	36	GLU
1	D	154	ALA
1	D	184	PRO
1	D	347	ARG
1	D	370	ASN
1	D	408	ASN
1	D	806	LEU
1	E	96	MET
1	E	184	PRO
1	E	347	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	E	794	ALA
1	E	806	LEU
1	F	184	PRO
1	F	806	LEU
1	G	36	GLU
1	G	154	ALA
1	G	184	PRO
1	G	347	ARG
1	G	370	ASN
1	G	408	ASN
1	G	806	LEU
1	H	96	MET
1	H	184	PRO
1	H	347	ARG
1	H	794	ALA
1	H	806	LEU
1	I	184	PRO
1	I	399	ASN
1	I	806	LEU
1	J	36	GLU
1	J	184	PRO
1	J	347	ARG
1	J	370	ASN
1	J	408	ASN
1	J	806	LEU
1	K	96	MET
1	K	184	PRO
1	K	347	ARG
1	K	794	ALA
1	K	806	LEU
1	L	184	PRO
1	L	806	LEU
2	M	35	VAL
2	M	151	GLN
2	M	293	ASP
2	M	296	GLY
2	M	417	VAL
3	N	19	TRP
3	O	19	TRP
3	P	19	TRP
3	Q	19	TRP
1	A	86	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	795	PRO
1	A	803	GLN
1	B	86	LEU
1	C	154	ALA
1	C	426	LEU
1	D	86	LEU
1	D	795	PRO
1	D	803	GLN
1	E	86	LEU
1	E	610	SER
1	F	154	ALA
1	F	358	MET
1	F	426	LEU
1	G	86	LEU
1	G	795	PRO
1	G	803	GLN
1	H	86	LEU
1	H	610	SER
1	I	154	ALA
1	I	358	MET
1	I	426	LEU
1	J	86	LEU
1	J	795	PRO
1	J	803	GLN
1	K	86	LEU
1	K	610	SER
1	L	154	ALA
1	L	358	MET
1	L	426	LEU
2	M	55	PRO
2	M	185	GLY
2	M	424	ILE
3	N	21	GLY
3	O	21	GLY
3	P	21	GLY
3	Q	21	GLY
1	B	476	ILE
1	C	153	VAL
1	C	209	ASN
1	C	711	GLY
1	C	795	PRO
1	E	476	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	F	153	VAL
1	F	209	ASN
1	F	795	PRO
1	H	476	ILE
1	I	153	VAL
1	I	209	ASN
1	I	711	GLY
1	I	795	PRO
1	K	476	ILE
1	L	153	VAL
1	L	209	ASN
1	L	711	GLY
1	L	795	PRO
2	M	150	PRO
2	M	326	PRO
2	M	463	PRO
1	A	153	VAL
1	B	156	ILE
1	B	209	ASN
1	B	795	PRO
1	D	153	VAL
1	E	156	ILE
1	E	209	ASN
1	E	795	PRO
1	F	711	GLY
1	G	153	VAL
1	H	156	ILE
1	H	209	ASN
1	H	795	PRO
1	J	153	VAL
1	K	156	ILE
1	K	209	ASN
1	K	795	PRO
2	M	89	ILE
1	A	156	ILE
1	A	209	ASN
1	B	153	VAL
1	C	156	ILE
1	D	156	ILE
1	D	209	ASN
1	E	153	VAL
1	F	156	ILE

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Mol	Chain	Res	Type
1	G	156	ILE
1	G	209	ASN
1	H	153	VAL
1	I	156	ILE
1	J	156	ILE
1	J	209	ASN
1	K	153	VAL
1	L	156	ILE
2	M	189	GLY
2	M	345	VAL
2	M	392	VAL
1	A	711	GLY
1	D	711	GLY
1	G	711	GLY
1	J	711	GLY
2	M	380	PRO
3	N	107	GLY
3	O	107	GLY
3	P	107	GLY
3	Q	107	GLY
2	M	114	GLY

### 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	779/786 (99%)	752 (96%)	27 (4%)	36	60
1	B	779/786 (99%)	751 (96%)	28 (4%)	35	60
1	C	779/786 (99%)	752 (96%)	27 (4%)	36	60
1	D	779/786 (99%)	752 (96%)	27 (4%)	36	60
1	E	779/786 (99%)	751 (96%)	28 (4%)	35	60
1	F	779/786 (99%)	752 (96%)	27 (4%)	36	60
1	G	779/786 (99%)	752 (96%)	27 (4%)	36	60
1	H	779/786 (99%)	751 (96%)	28 (4%)	35	60

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	I	779/786 (99%)	752 (96%)	27 (4%)	36	60
1	J	779/786 (99%)	752 (96%)	27 (4%)	36	60
1	K	779/786 (99%)	751 (96%)	28 (4%)	35	60
1	L	779/786 (99%)	752 (96%)	27 (4%)	36	60
2	M	401/432 (93%)	393 (98%)	8 (2%)	55	73
3	N	89/103 (86%)	51 (57%)	38 (43%)	0	0
3	O	89/103 (86%)	51 (57%)	38 (43%)	0	0
3	P	89/103 (86%)	51 (57%)	38 (43%)	0	0
3	Q	89/103 (86%)	51 (57%)	38 (43%)	0	0
4	R	87/179 (49%)	77 (88%)	10 (12%)	5	23
All	All	10192/10455 (98%)	9694 (95%)	498 (5%)	29	51

All (498) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	38	TYR
1	A	46	ARG
1	A	63	ARG
1	A	78	TYR
1	A	90	ASP
1	A	135	PHE
1	A	136	ARG
1	A	147	ILE
1	A	185	GLN
1	A	272	PRO
1	A	323	ASN
1	A	347	ARG
1	A	392	ARG
1	A	401	GLN
1	A	403	TRP
1	A	408	ASN
1	A	410	ASP
1	A	426	LEU
1	A	472	VAL
1	A	502	ASN
1	A	545	TRP
1	A	635	PHE
1	A	646	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	749	ASP
1	A	792	CYS
1	A	796	ARG
1	A	817	ARG
1	B	38	TYR
1	B	46	ARG
1	B	63	ARG
1	B	78	TYR
1	B	135	PHE
1	B	136	ARG
1	B	147	ILE
1	B	185	GLN
1	B	272	PRO
1	B	323	ASN
1	B	347	ARG
1	B	392	ARG
1	B	394	HIS
1	B	401	GLN
1	B	403	TRP
1	B	408	ASN
1	B	410	ASP
1	B	426	LEU
1	B	472	VAL
1	B	502	ASN
1	B	545	TRP
1	B	635	PHE
1	B	646	ARG
1	B	749	ASP
1	B	792	CYS
1	B	796	ARG
1	B	806	LEU
1	B	817	ARG
1	C	38	TYR
1	C	46	ARG
1	C	63	ARG
1	C	78	TYR
1	C	90	ASP
1	C	135	PHE
1	C	136	ARG
1	C	147	ILE
1	C	185	GLN
1	C	272	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	323	ASN
1	C	347	ARG
1	C	392	ARG
1	C	401	GLN
1	C	403	TRP
1	C	410	ASP
1	C	426	LEU
1	C	472	VAL
1	C	502	ASN
1	C	545	TRP
1	C	587	ASN
1	C	635	PHE
1	C	646	ARG
1	C	749	ASP
1	C	792	CYS
1	C	796	ARG
1	C	817	ARG
1	D	38	TYR
1	D	46	ARG
1	D	63	ARG
1	D	78	TYR
1	D	90	ASP
1	D	135	PHE
1	D	136	ARG
1	D	147	ILE
1	D	185	GLN
1	D	272	PRO
1	D	323	ASN
1	D	347	ARG
1	D	392	ARG
1	D	401	GLN
1	D	403	TRP
1	D	408	ASN
1	D	410	ASP
1	D	426	LEU
1	D	472	VAL
1	D	502	ASN
1	D	545	TRP
1	D	635	PHE
1	D	646	ARG
1	D	749	ASP
1	D	792	CYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	D	796	ARG
1	D	817	ARG
1	E	38	TYR
1	E	46	ARG
1	E	63	ARG
1	E	78	TYR
1	E	135	PHE
1	E	136	ARG
1	E	147	ILE
1	E	185	GLN
1	E	272	PRO
1	E	323	ASN
1	E	347	ARG
1	E	392	ARG
1	E	394	HIS
1	E	401	GLN
1	E	403	TRP
1	E	408	ASN
1	E	410	ASP
1	E	426	LEU
1	E	472	VAL
1	E	502	ASN
1	E	545	TRP
1	E	635	PHE
1	E	646	ARG
1	E	749	ASP
1	E	792	CYS
1	E	796	ARG
1	E	806	LEU
1	E	817	ARG
1	F	38	TYR
1	F	46	ARG
1	F	63	ARG
1	F	78	TYR
1	F	90	ASP
1	F	135	PHE
1	F	136	ARG
1	F	147	ILE
1	F	185	GLN
1	F	272	PRO
1	F	323	ASN
1	F	347	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	F	392	ARG
1	F	401	GLN
1	F	403	TRP
1	F	410	ASP
1	F	426	LEU
1	F	472	VAL
1	F	502	ASN
1	F	545	TRP
1	F	587	ASN
1	F	635	PHE
1	F	646	ARG
1	F	749	ASP
1	F	792	CYS
1	F	796	ARG
1	F	817	ARG
1	G	38	TYR
1	G	46	ARG
1	G	63	ARG
1	G	78	TYR
1	G	90	ASP
1	G	135	PHE
1	G	136	ARG
1	G	147	ILE
1	G	185	GLN
1	G	272	PRO
1	G	323	ASN
1	G	347	ARG
1	G	392	ARG
1	G	401	GLN
1	G	403	TRP
1	G	408	ASN
1	G	410	ASP
1	G	426	LEU
1	G	472	VAL
1	G	502	ASN
1	G	545	TRP
1	G	635	PHE
1	G	646	ARG
1	G	749	ASP
1	G	792	CYS
1	G	796	ARG
1	G	817	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	38	TYR
1	H	46	ARG
1	H	63	ARG
1	H	78	TYR
1	H	135	PHE
1	H	136	ARG
1	H	147	ILE
1	H	185	GLN
1	H	272	PRO
1	H	323	ASN
1	H	347	ARG
1	H	392	ARG
1	H	394	HIS
1	H	401	GLN
1	H	403	TRP
1	H	408	ASN
1	H	410	ASP
1	H	426	LEU
1	H	472	VAL
1	H	502	ASN
1	H	545	TRP
1	H	635	PHE
1	H	646	ARG
1	H	749	ASP
1	H	792	CYS
1	H	796	ARG
1	H	806	LEU
1	H	817	ARG
1	I	38	TYR
1	I	46	ARG
1	I	63	ARG
1	I	78	TYR
1	I	90	ASP
1	I	135	PHE
1	I	136	ARG
1	I	147	ILE
1	I	185	GLN
1	I	272	PRO
1	I	323	ASN
1	I	347	ARG
1	I	392	ARG
1	I	401	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	I	403	TRP
1	I	410	ASP
1	I	426	LEU
1	I	472	VAL
1	I	502	ASN
1	I	545	TRP
1	I	587	ASN
1	I	635	PHE
1	I	646	ARG
1	I	749	ASP
1	I	792	CYS
1	I	796	ARG
1	I	817	ARG
1	J	38	TYR
1	J	46	ARG
1	J	63	ARG
1	J	78	TYR
1	J	90	ASP
1	J	135	PHE
1	J	136	ARG
1	J	147	ILE
1	J	185	GLN
1	J	272	PRO
1	J	323	ASN
1	J	347	ARG
1	J	392	ARG
1	J	401	GLN
1	J	403	TRP
1	J	408	ASN
1	J	410	ASP
1	J	426	LEU
1	J	472	VAL
1	J	502	ASN
1	J	545	TRP
1	J	635	PHE
1	J	646	ARG
1	J	749	ASP
1	J	792	CYS
1	J	796	ARG
1	J	817	ARG
1	K	38	TYR
1	K	46	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	K	63	ARG
1	K	78	TYR
1	K	135	PHE
1	K	136	ARG
1	K	147	ILE
1	K	185	GLN
1	K	272	PRO
1	K	323	ASN
1	K	347	ARG
1	K	392	ARG
1	K	394	HIS
1	K	401	GLN
1	K	403	TRP
1	K	408	ASN
1	K	410	ASP
1	K	426	LEU
1	K	472	VAL
1	K	502	ASN
1	K	545	TRP
1	K	635	PHE
1	K	646	ARG
1	K	749	ASP
1	K	792	CYS
1	K	796	ARG
1	K	806	LEU
1	K	817	ARG
1	L	38	TYR
1	L	46	ARG
1	L	63	ARG
1	L	78	TYR
1	L	90	ASP
1	L	135	PHE
1	L	136	ARG
1	L	147	ILE
1	L	185	GLN
1	L	272	PRO
1	L	323	ASN
1	L	347	ARG
1	L	392	ARG
1	L	401	GLN
1	L	403	TRP
1	L	410	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	L	426	LEU
1	L	472	VAL
1	L	502	ASN
1	L	545	TRP
1	L	587	ASN
1	L	635	PHE
1	L	646	ARG
1	L	749	ASP
1	L	792	CYS
1	L	796	ARG
1	L	817	ARG
2	M	78	TYR
2	M	124	ASN
2	M	127	ASN
2	M	163	ASN
2	M	260	PHE
2	M	315	ARG
2	M	340	ASP
2	M	347	GLN
3	N	4	GLU
3	N	6	ARG
3	N	8	TYR
3	N	9	VAL
3	N	15	ARG
3	N	16	LEU
3	N	20	SER
3	N	22	SER
3	N	24	GLN
3	N	25	ASP
3	N	26	LYS
3	N	27	THR
3	N	30	ASN
3	N	31	MET
3	N	32	LEU
3	N	37	LEU
3	N	40	ASN
3	N	41	SER
3	N	42	GLN
3	N	44	HIS
3	N	45	ARG
3	N	46	THR
3	N	47	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	N	51	THR
3	N	54	THR
3	N	55	ARG
3	N	56	ASP
3	N	57	ASN
3	N	58	LEU
3	N	64	ARG
3	N	65	ARG
3	N	72	TYR
3	N	73	MET
3	N	76	VAL
3	N	77	GLU
3	N	78	ASP
3	N	79	SER
3	N	80	LEU
3	O	4	GLU
3	O	6	ARG
3	O	8	TYR
3	O	9	VAL
3	O	15	ARG
3	O	16	LEU
3	O	20	SER
3	O	22	SER
3	O	24	GLN
3	O	25	ASP
3	O	26	LYS
3	O	27	THR
3	O	30	ASN
3	O	31	MET
3	O	32	LEU
3	O	37	LEU
3	O	40	ASN
3	O	41	SER
3	O	42	GLN
3	O	44	HIS
3	O	45	ARG
3	O	46	THR
3	O	47	GLU
3	O	51	THR
3	O	54	THR
3	O	55	ARG
3	O	56	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	O	57	ASN
3	O	58	LEU
3	O	64	ARG
3	O	65	ARG
3	O	72	TYR
3	O	73	MET
3	O	76	VAL
3	O	77	GLU
3	O	78	ASP
3	O	79	SER
3	O	80	LEU
3	P	4	GLU
3	P	6	ARG
3	P	8	TYR
3	P	9	VAL
3	P	15	ARG
3	P	16	LEU
3	P	20	SER
3	P	22	SER
3	P	24	GLN
3	P	25	ASP
3	P	26	LYS
3	P	27	THR
3	P	30	ASN
3	P	31	MET
3	P	32	LEU
3	P	37	LEU
3	P	40	ASN
3	P	41	SER
3	P	42	GLN
3	P	44	HIS
3	P	45	ARG
3	P	46	THR
3	P	47	GLU
3	P	51	THR
3	P	54	THR
3	P	55	ARG
3	P	56	ASP
3	P	57	ASN
3	P	58	LEU
3	P	64	ARG
3	P	65	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	P	72	TYR
3	P	73	MET
3	P	76	VAL
3	P	77	GLU
3	P	78	ASP
3	P	79	SER
3	P	80	LEU
3	Q	4	GLU
3	Q	6	ARG
3	Q	8	TYR
3	Q	9	VAL
3	Q	15	ARG
3	Q	16	LEU
3	Q	20	SER
3	Q	22	SER
3	Q	24	GLN
3	Q	25	ASP
3	Q	26	LYS
3	Q	27	THR
3	Q	30	ASN
3	Q	31	MET
3	Q	32	LEU
3	Q	37	LEU
3	Q	40	ASN
3	Q	41	SER
3	Q	42	GLN
3	Q	44	HIS
3	Q	45	ARG
3	Q	46	THR
3	Q	47	GLU
3	Q	51	THR
3	Q	54	THR
3	Q	55	ARG
3	Q	56	ASP
3	Q	57	ASN
3	Q	58	LEU
3	Q	64	ARG
3	Q	65	ARG
3	Q	72	TYR
3	Q	73	MET
3	Q	76	VAL
3	Q	77	GLU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	Q	78	ASP
3	Q	79	SER
3	Q	80	LEU
4	R	4	GLU
4	R	5	ILE
4	R	14	GLN
4	R	33	TRP
4	R	34	PHE
4	R	41	ILE
4	R	53	ARG
4	R	187	LEU
4	R	188	ASN
4	R	206	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (420) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	9	GLN
1	A	62	GLN
1	A	77	GLN
1	A	137	GLN
1	A	164	GLN
1	A	185	GLN
1	A	233	ASN
1	A	246	ASN
1	A	307	ASN
1	A	311	ASN
1	A	321	GLN
1	A	323	ASN
1	A	379	ASN
1	A	399	ASN
1	A	405	ASN
1	A	408	ASN
1	A	412	ASN
1	A	453	ASN
1	A	455	GLN
1	A	502	ASN
1	A	510	GLN
1	A	533	ASN
1	A	552	ASN
1	A	556	GLN
1	A	576	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	587	ASN
1	A	621	ASN
1	A	684	GLN
1	A	735	ASN
1	A	799	HIS
1	A	850	ASN
1	A	889	GLN
1	B	9	GLN
1	B	62	GLN
1	B	77	GLN
1	B	132	ASN
1	B	137	GLN
1	B	164	GLN
1	B	185	GLN
1	B	233	ASN
1	B	246	ASN
1	B	307	ASN
1	B	311	ASN
1	B	323	ASN
1	B	379	ASN
1	B	399	ASN
1	B	405	ASN
1	B	408	ASN
1	B	412	ASN
1	B	453	ASN
1	B	455	GLN
1	B	502	ASN
1	B	510	GLN
1	B	533	ASN
1	B	552	ASN
1	B	556	GLN
1	B	576	ASN
1	B	587	ASN
1	B	621	ASN
1	B	684	GLN
1	B	701	ASN
1	B	735	ASN
1	B	799	HIS
1	B	850	ASN
1	B	889	GLN
1	C	9	GLN
1	C	62	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	77	GLN
1	C	85	GLN
1	C	137	GLN
1	C	164	GLN
1	C	233	ASN
1	C	246	ASN
1	C	307	ASN
1	C	311	ASN
1	C	323	ASN
1	C	356	GLN
1	C	399	ASN
1	C	405	ASN
1	C	408	ASN
1	C	412	ASN
1	C	418	ASN
1	C	453	ASN
1	C	455	GLN
1	C	502	ASN
1	C	510	GLN
1	C	533	ASN
1	C	552	ASN
1	C	556	GLN
1	C	576	ASN
1	C	587	ASN
1	C	621	ASN
1	C	684	GLN
1	C	735	ASN
1	C	799	HIS
1	C	850	ASN
1	C	870	ASN
1	C	889	GLN
1	D	9	GLN
1	D	62	GLN
1	D	77	GLN
1	D	137	GLN
1	D	164	GLN
1	D	185	GLN
1	D	233	ASN
1	D	246	ASN
1	D	307	ASN
1	D	311	ASN
1	D	323	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	D	379	ASN
1	D	399	ASN
1	D	405	ASN
1	D	408	ASN
1	D	412	ASN
1	D	453	ASN
1	D	455	GLN
1	D	502	ASN
1	D	510	GLN
1	D	533	ASN
1	D	552	ASN
1	D	556	GLN
1	D	576	ASN
1	D	587	ASN
1	D	621	ASN
1	D	684	GLN
1	D	735	ASN
1	D	799	HIS
1	D	850	ASN
1	D	889	GLN
1	E	9	GLN
1	E	62	GLN
1	E	77	GLN
1	E	132	ASN
1	E	137	GLN
1	E	164	GLN
1	E	185	GLN
1	E	233	ASN
1	E	246	ASN
1	E	307	ASN
1	E	311	ASN
1	E	323	ASN
1	E	379	ASN
1	E	399	ASN
1	E	405	ASN
1	E	408	ASN
1	E	412	ASN
1	E	453	ASN
1	E	455	GLN
1	E	502	ASN
1	E	510	GLN
1	E	533	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	E	552	ASN
1	E	556	GLN
1	E	576	ASN
1	E	587	ASN
1	E	598	ASN
1	E	621	ASN
1	E	684	GLN
1	E	735	ASN
1	E	799	HIS
1	E	850	ASN
1	E	889	GLN
1	E	891	HIS
1	F	9	GLN
1	F	62	GLN
1	F	77	GLN
1	F	137	GLN
1	F	164	GLN
1	F	233	ASN
1	F	246	ASN
1	F	307	ASN
1	F	311	ASN
1	F	323	ASN
1	F	356	GLN
1	F	399	ASN
1	F	405	ASN
1	F	408	ASN
1	F	412	ASN
1	F	418	ASN
1	F	453	ASN
1	F	455	GLN
1	F	502	ASN
1	F	510	GLN
1	F	533	ASN
1	F	552	ASN
1	F	556	GLN
1	F	576	ASN
1	F	587	ASN
1	F	621	ASN
1	F	684	GLN
1	F	735	ASN
1	F	799	HIS
1	F	850	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	F	889	GLN
1	G	9	GLN
1	G	62	GLN
1	G	77	GLN
1	G	137	GLN
1	G	164	GLN
1	G	185	GLN
1	G	233	ASN
1	G	246	ASN
1	G	307	ASN
1	G	311	ASN
1	G	323	ASN
1	G	356	GLN
1	G	379	ASN
1	G	399	ASN
1	G	405	ASN
1	G	408	ASN
1	G	412	ASN
1	G	453	ASN
1	G	455	GLN
1	G	502	ASN
1	G	510	GLN
1	G	533	ASN
1	G	552	ASN
1	G	556	GLN
1	G	576	ASN
1	G	587	ASN
1	G	621	ASN
1	G	684	GLN
1	G	701	ASN
1	G	735	ASN
1	G	799	HIS
1	G	850	ASN
1	G	855	ASN
1	G	889	GLN
1	H	9	GLN
1	H	62	GLN
1	H	77	GLN
1	H	132	ASN
1	H	137	GLN
1	H	164	GLN
1	H	185	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	233	ASN
1	H	246	ASN
1	H	307	ASN
1	H	311	ASN
1	H	323	ASN
1	H	379	ASN
1	H	399	ASN
1	H	405	ASN
1	H	408	ASN
1	H	412	ASN
1	H	453	ASN
1	H	455	GLN
1	H	493	ASN
1	H	502	ASN
1	H	510	GLN
1	H	533	ASN
1	H	552	ASN
1	H	556	GLN
1	H	576	ASN
1	H	587	ASN
1	H	621	ASN
1	H	684	GLN
1	H	735	ASN
1	H	799	HIS
1	H	850	ASN
1	H	870	ASN
1	H	889	GLN
1	I	9	GLN
1	I	62	GLN
1	I	77	GLN
1	I	137	GLN
1	I	164	GLN
1	I	233	ASN
1	I	246	ASN
1	I	307	ASN
1	I	311	ASN
1	I	323	ASN
1	I	356	GLN
1	I	399	ASN
1	I	405	ASN
1	I	408	ASN
1	I	412	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	I	418	ASN
1	I	453	ASN
1	I	455	GLN
1	I	502	ASN
1	I	510	GLN
1	I	533	ASN
1	I	552	ASN
1	I	556	GLN
1	I	576	ASN
1	I	587	ASN
1	I	621	ASN
1	I	684	GLN
1	I	735	ASN
1	I	799	HIS
1	I	850	ASN
1	I	889	GLN
1	J	9	GLN
1	J	62	GLN
1	J	77	GLN
1	J	85	GLN
1	J	137	GLN
1	J	164	GLN
1	J	185	GLN
1	J	233	ASN
1	J	246	ASN
1	J	307	ASN
1	J	311	ASN
1	J	323	ASN
1	J	379	ASN
1	J	399	ASN
1	J	405	ASN
1	J	408	ASN
1	J	412	ASN
1	J	453	ASN
1	J	455	GLN
1	J	502	ASN
1	J	510	GLN
1	J	533	ASN
1	J	552	ASN
1	J	556	GLN
1	J	576	ASN
1	J	587	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	J	621	ASN
1	J	684	GLN
1	J	735	ASN
1	J	799	HIS
1	J	850	ASN
1	J	870	ASN
1	J	889	GLN
1	K	9	GLN
1	K	62	GLN
1	K	77	GLN
1	K	132	ASN
1	K	137	GLN
1	K	164	GLN
1	K	185	GLN
1	K	209	ASN
1	K	233	ASN
1	K	246	ASN
1	K	307	ASN
1	K	311	ASN
1	K	323	ASN
1	K	379	ASN
1	K	399	ASN
1	K	405	ASN
1	K	408	ASN
1	K	412	ASN
1	K	453	ASN
1	K	455	GLN
1	K	493	ASN
1	K	502	ASN
1	K	510	GLN
1	K	533	ASN
1	K	552	ASN
1	K	556	GLN
1	K	576	ASN
1	K	587	ASN
1	K	624	GLN
1	K	684	GLN
1	K	735	ASN
1	K	799	HIS
1	K	850	ASN
1	K	889	GLN
1	L	9	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	L	62	GLN
1	L	77	GLN
1	L	137	GLN
1	L	164	GLN
1	L	171	GLN
1	L	233	ASN
1	L	246	ASN
1	L	307	ASN
1	L	311	ASN
1	L	323	ASN
1	L	356	GLN
1	L	379	ASN
1	L	399	ASN
1	L	405	ASN
1	L	408	ASN
1	L	412	ASN
1	L	418	ASN
1	L	453	ASN
1	L	455	GLN
1	L	502	ASN
1	L	510	GLN
1	L	533	ASN
1	L	552	ASN
1	L	556	GLN
1	L	576	ASN
1	L	587	ASN
1	L	621	ASN
1	L	684	GLN
1	L	735	ASN
1	L	799	HIS
1	L	850	ASN
1	L	889	GLN
2	M	47	ASN
2	M	92	ASN
2	M	124	ASN
2	M	127	ASN
2	M	151	GLN
2	M	226	HIS
2	M	402	ASN
2	M	408	ASN
2	M	414	GLN
3	N	30	ASN

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Mol	Chain	Res	Type
3	N	44	HIS
3	N	57	ASN
3	O	30	ASN
3	O	44	HIS
3	O	57	ASN
3	P	30	ASN
3	P	44	HIS
3	P	57	ASN
3	Q	30	ASN
3	Q	44	HIS
3	Q	57	ASN
4	R	16	GLN
4	R	45	ASN
4	R	51	GLN
4	R	58	GLN
4	R	200	GLN
4	R	206	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

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	M	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	M	65:LEU	C	66:ILE	N	1.18

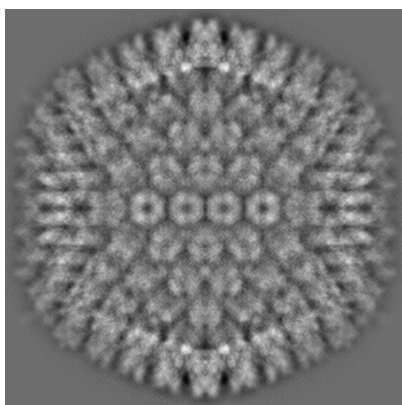
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2273. These allow visual inspection of the internal detail of the map and identification of artifacts.

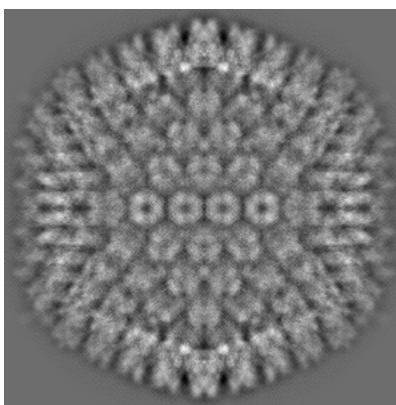
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

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

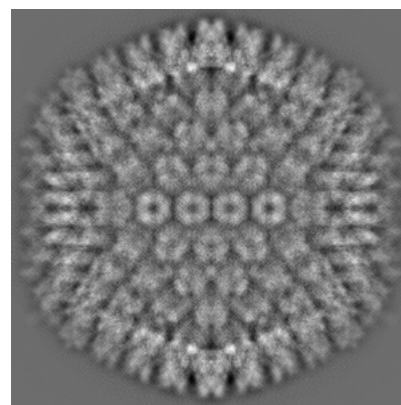
#### 6.1.1 Primary map



X



Y

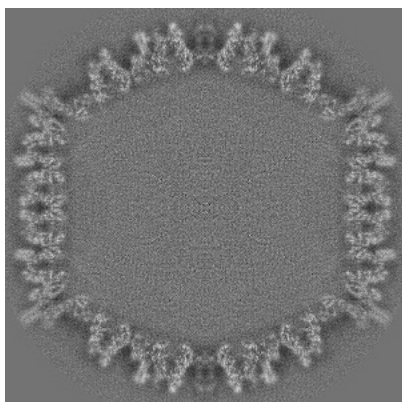


Z

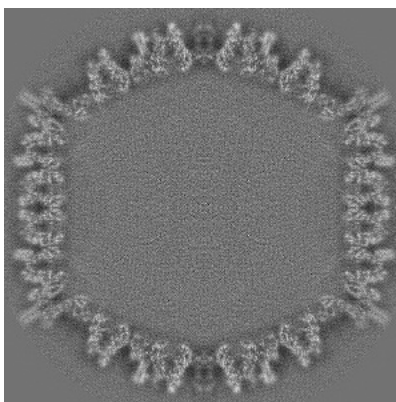
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

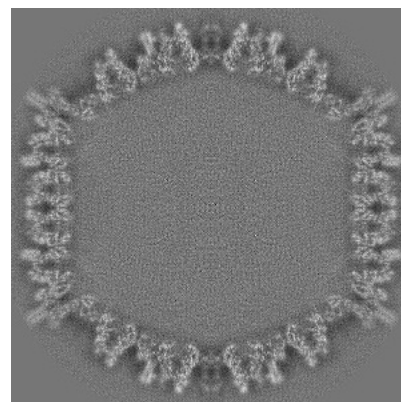
#### 6.2.1 Primary map



X Index: 400



Y Index: 400

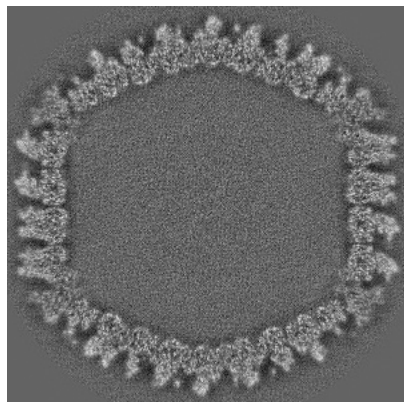


Z Index: 400

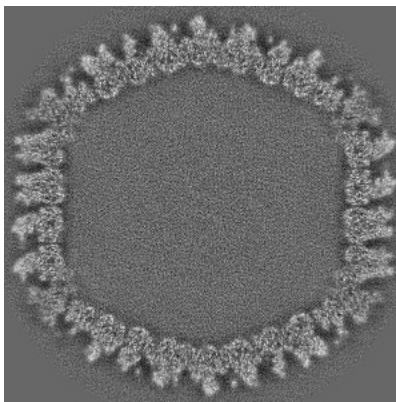
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

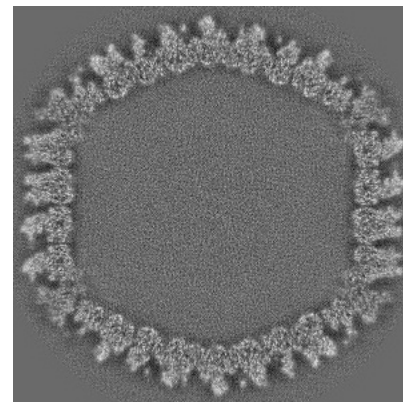
### 6.3.1 Primary map



X Index: 383



Y Index: 417



Z Index: 417

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

## 6.4 Orthogonal surface views [i](#)

### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 9.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

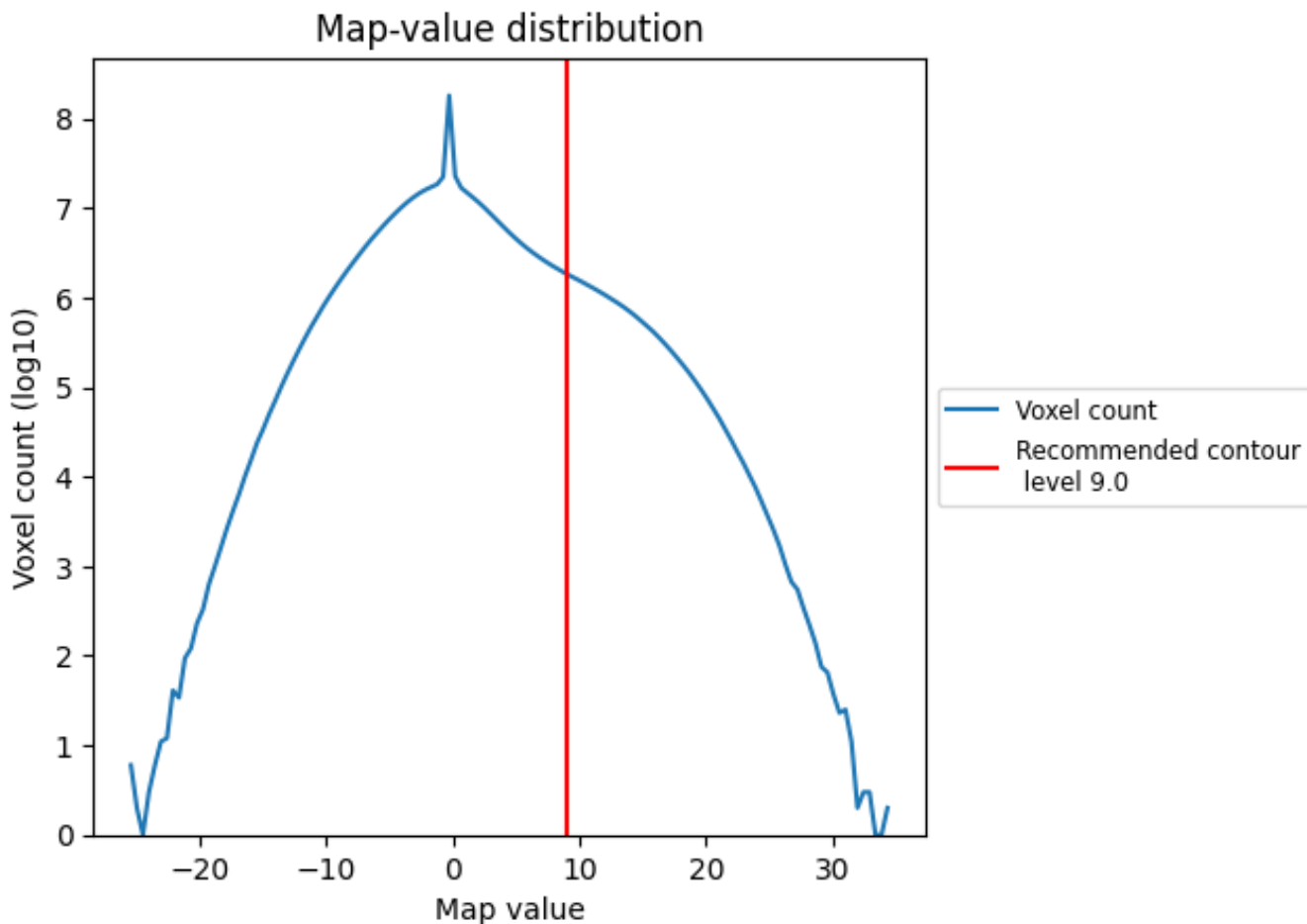
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

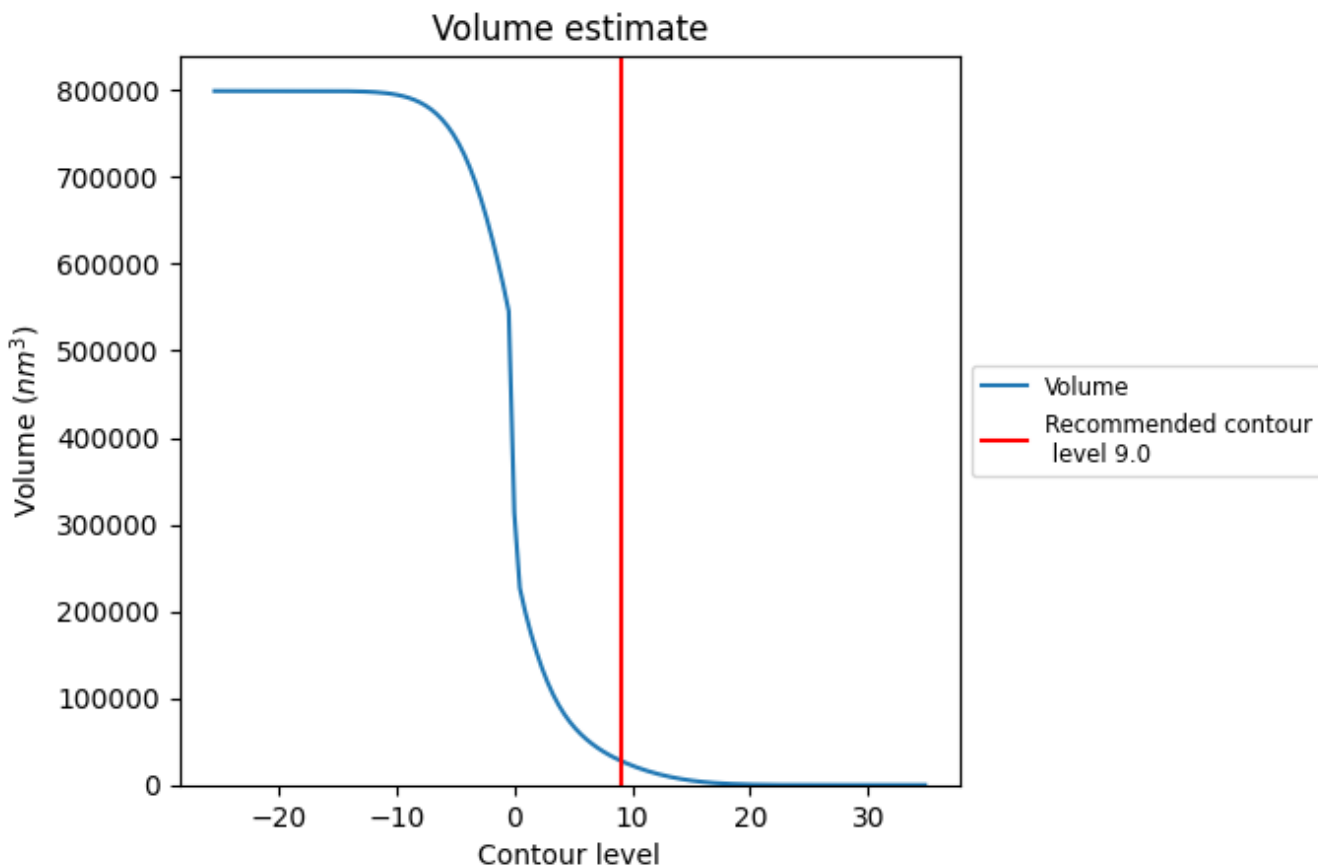
This section contains the results of statistical analysis of the map.

### 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.

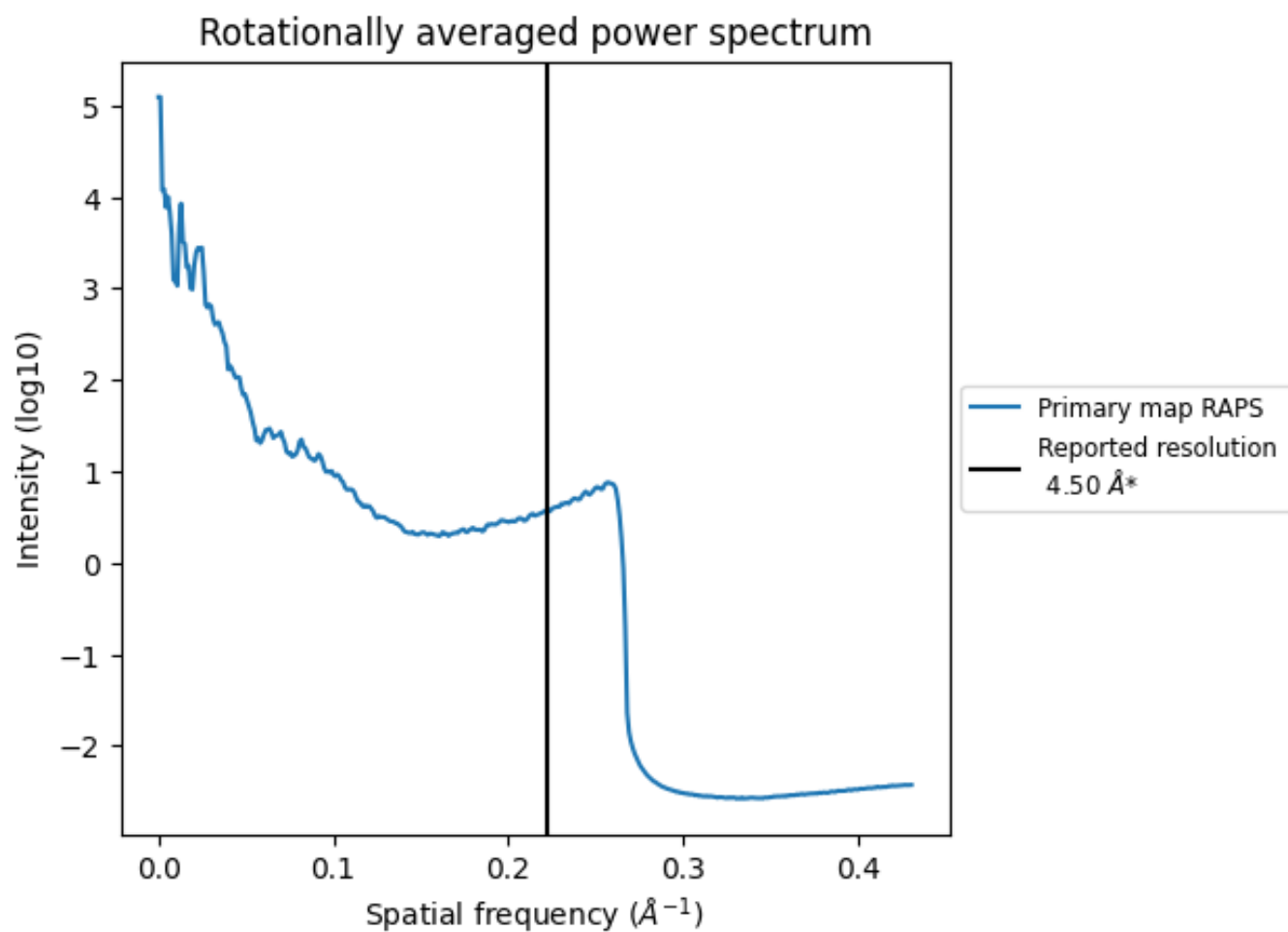
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 28074 nm<sup>3</sup>; this corresponds to an approximate mass of 25360 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 0.222 Å<sup>-1</sup>



## 8 Fourier-Shell correlation

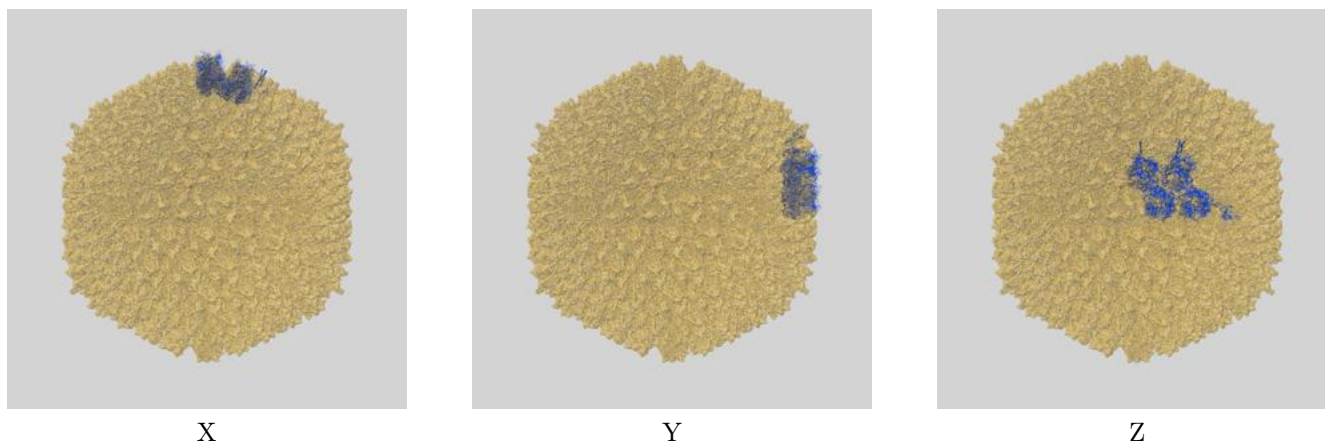
This section was not generated. No FSC curve or half-maps provided.

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

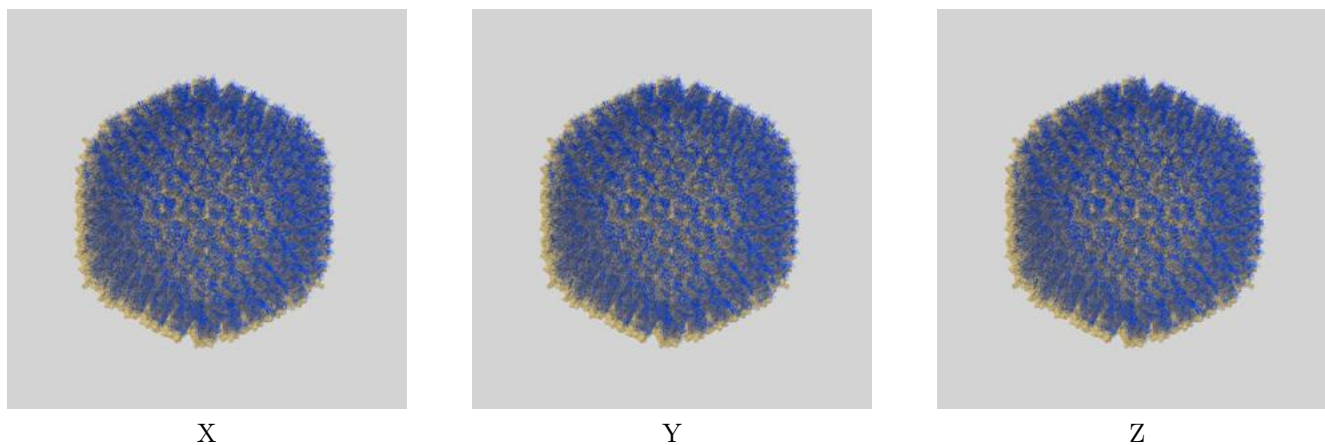
This section contains information regarding the fit between EMDB map EMD-2273 and PDB model 3ZIF. Per-residue inclusion information can be found in section 3 on page 6.

### 9.1 Map-model overlays

#### 9.1.1 Map-model overlay [i](#)

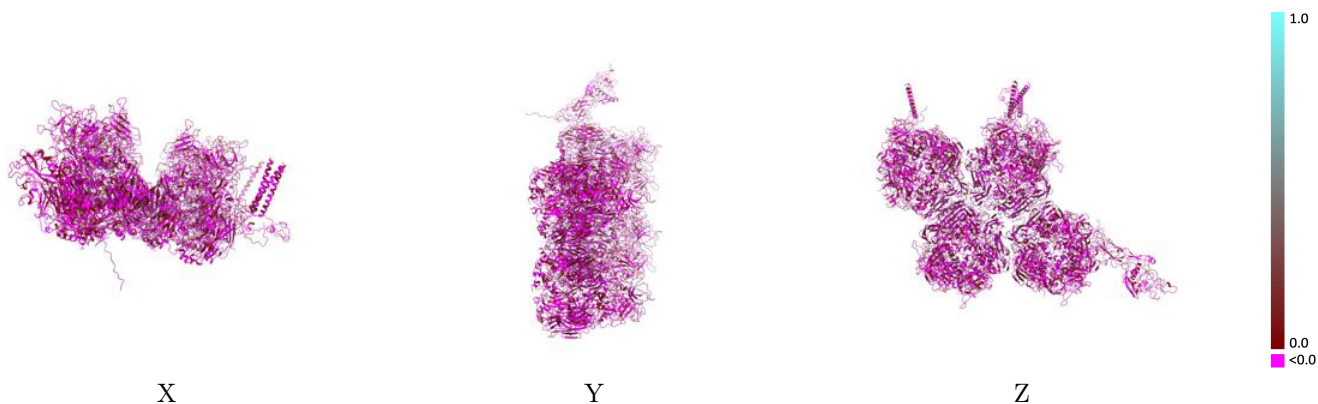


#### 9.1.2 Map-model assembly overlay [i](#)



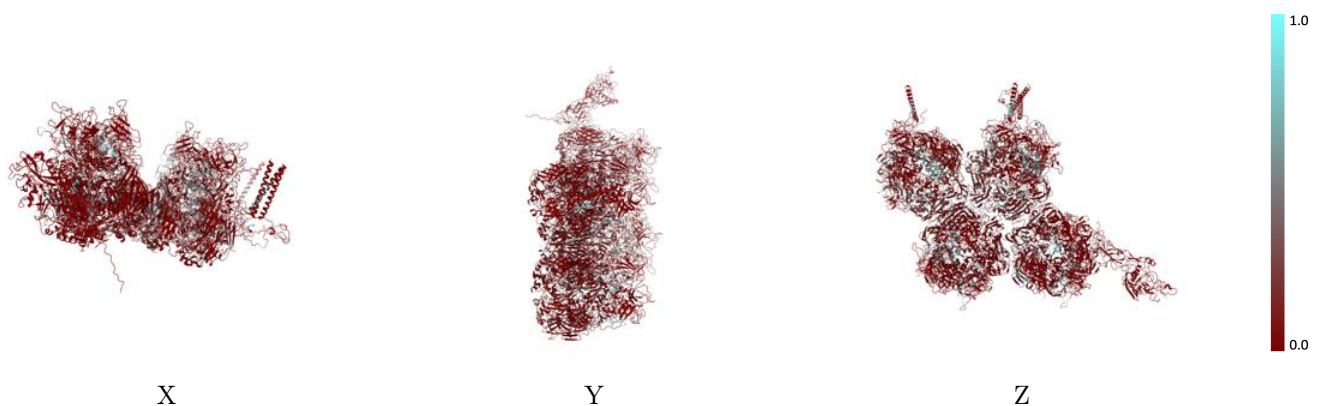
The images above show the 3D surface view of the map at the recommended contour level 9.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



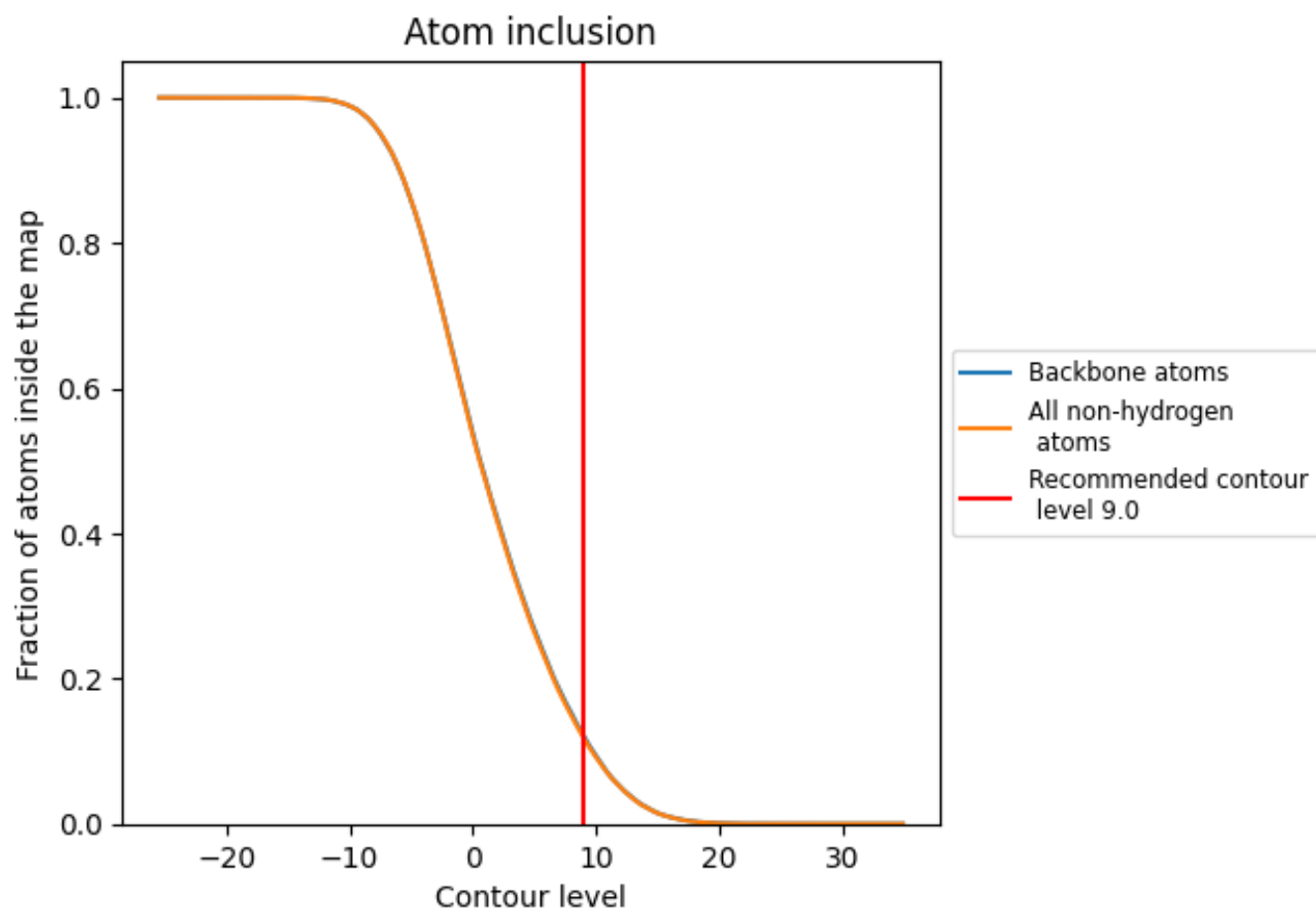
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (9.0).







































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 12% of all backbone atoms, 12% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (9.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.1174	 -0.0080
A	 0.0827	 -0.0010
B	 0.1065	 -0.0080
C	 0.1242	 -0.0050
D	 0.0861	 -0.0150
E	 0.1363	 0.0030
F	 0.1206	 -0.0210
G	 0.1455	 -0.0010
H	 0.0889	 -0.0110
I	 0.1496	 -0.0120
J	 0.1427	 -0.0090
K	 0.0920	 -0.0060
L	 0.1668	 -0.0150
M	 0.0390	 -0.0070
N	 0.0399	 -0.0360
O	 0.1870	 0.0280
P	 0.1309	 -0.0070
Q	 0.1272	 -0.0020
R	 0.1564	 0.0330

