



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 06:32 AM UTC

PDB ID : 1XFY / pdb_00001xfy
Title : Crystal structure of anthrax edema factor (EF) in complex with calmodulin
Authors : Shen, Y.; Zhukovskaya, N.L.; Guo, Q.; Florian, J.; Tang, W.J.
Deposited on : 2004-09-15
Resolution : 3.30 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

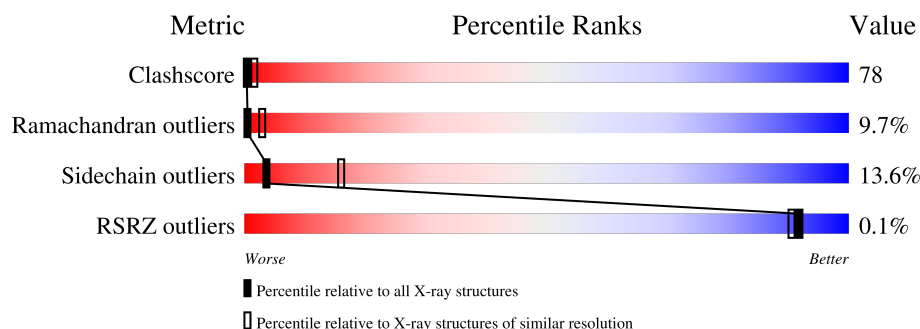
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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

Mol	Chain	Length	Quality of chain
1	A	777	
1	B	777	
1	C	777	
1	D	777	
1	E	777	
1	F	777	
2	O	149	

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Mol	Chain	Length	Quality of chain
2	P	149	14%57%23%
2	Q	149	15%55%24%
2	R	149	13%58%25%
2	S	149	13%58%24%
2	T	149	%13%58%24%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 42846 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Calmodulin-sensitive adenylate cyclase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	B	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	C	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	D	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	E	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			
1	F	735	Total	C	N	O	S	0	0	0
			5992	3828	995	1163	6			

There are 54 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	24	MET	-	initiating methionine	UNP P40136
A	25	HIS	-	expression tag	UNP P40136
A	26	HIS	-	expression tag	UNP P40136
A	27	HIS	-	expression tag	UNP P40136
A	28	HIS	-	expression tag	UNP P40136
A	29	HIS	-	expression tag	UNP P40136
A	30	HIS	-	expression tag	UNP P40136
A	31	ALA	-	cloning artifact	UNP P40136
A	32	ALA	-	cloning artifact	UNP P40136
B	24	MET	-	initiating methionine	UNP P40136
B	25	HIS	-	expression tag	UNP P40136
B	26	HIS	-	expression tag	UNP P40136
B	27	HIS	-	expression tag	UNP P40136
B	28	HIS	-	expression tag	UNP P40136
B	29	HIS	-	expression tag	UNP P40136
B	30	HIS	-	expression tag	UNP P40136
B	31	ALA	-	cloning artifact	UNP P40136

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Chain	Residue	Modelled	Actual	Comment	Reference
B	32	ALA	-	cloning artifact	UNP P40136
C	24	MET	-	initiating methionine	UNP P40136
C	25	HIS	-	expression tag	UNP P40136
C	26	HIS	-	expression tag	UNP P40136
C	27	HIS	-	expression tag	UNP P40136
C	28	HIS	-	expression tag	UNP P40136
C	29	HIS	-	expression tag	UNP P40136
C	30	HIS	-	expression tag	UNP P40136
C	31	ALA	-	cloning artifact	UNP P40136
C	32	ALA	-	cloning artifact	UNP P40136
D	24	MET	-	initiating methionine	UNP P40136
D	25	HIS	-	expression tag	UNP P40136
D	26	HIS	-	expression tag	UNP P40136
D	27	HIS	-	expression tag	UNP P40136
D	28	HIS	-	expression tag	UNP P40136
D	29	HIS	-	expression tag	UNP P40136
D	30	HIS	-	expression tag	UNP P40136
D	31	ALA	-	cloning artifact	UNP P40136
D	32	ALA	-	cloning artifact	UNP P40136
E	24	MET	-	initiating methionine	UNP P40136
E	25	HIS	-	expression tag	UNP P40136
E	26	HIS	-	expression tag	UNP P40136
E	27	HIS	-	expression tag	UNP P40136
E	28	HIS	-	expression tag	UNP P40136
E	29	HIS	-	expression tag	UNP P40136
E	30	HIS	-	expression tag	UNP P40136
E	31	ALA	-	cloning artifact	UNP P40136
E	32	ALA	-	cloning artifact	UNP P40136
F	24	MET	-	initiating methionine	UNP P40136
F	25	HIS	-	expression tag	UNP P40136
F	26	HIS	-	expression tag	UNP P40136
F	27	HIS	-	expression tag	UNP P40136
F	28	HIS	-	expression tag	UNP P40136
F	29	HIS	-	expression tag	UNP P40136
F	30	HIS	-	expression tag	UNP P40136
F	31	ALA	-	cloning artifact	UNP P40136
F	32	ALA	-	cloning artifact	UNP P40136

- Molecule 2 is a protein called Calmodulin 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	O	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	P	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	Q	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	R	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	S	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			
2	T	146	Total	C	N	O	S	0	0	0
			1146	702	186	249	9			

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Mg	0	0
			1	1		
3	B	1	Total	Mg	0	0
			1	1		
3	C	1	Total	Mg	0	0
			1	1		
3	D	1	Total	Mg	0	0
			1	1		
3	E	1	Total	Mg	0	0
			1	1		
3	F	1	Total	Mg	0	0
			1	1		

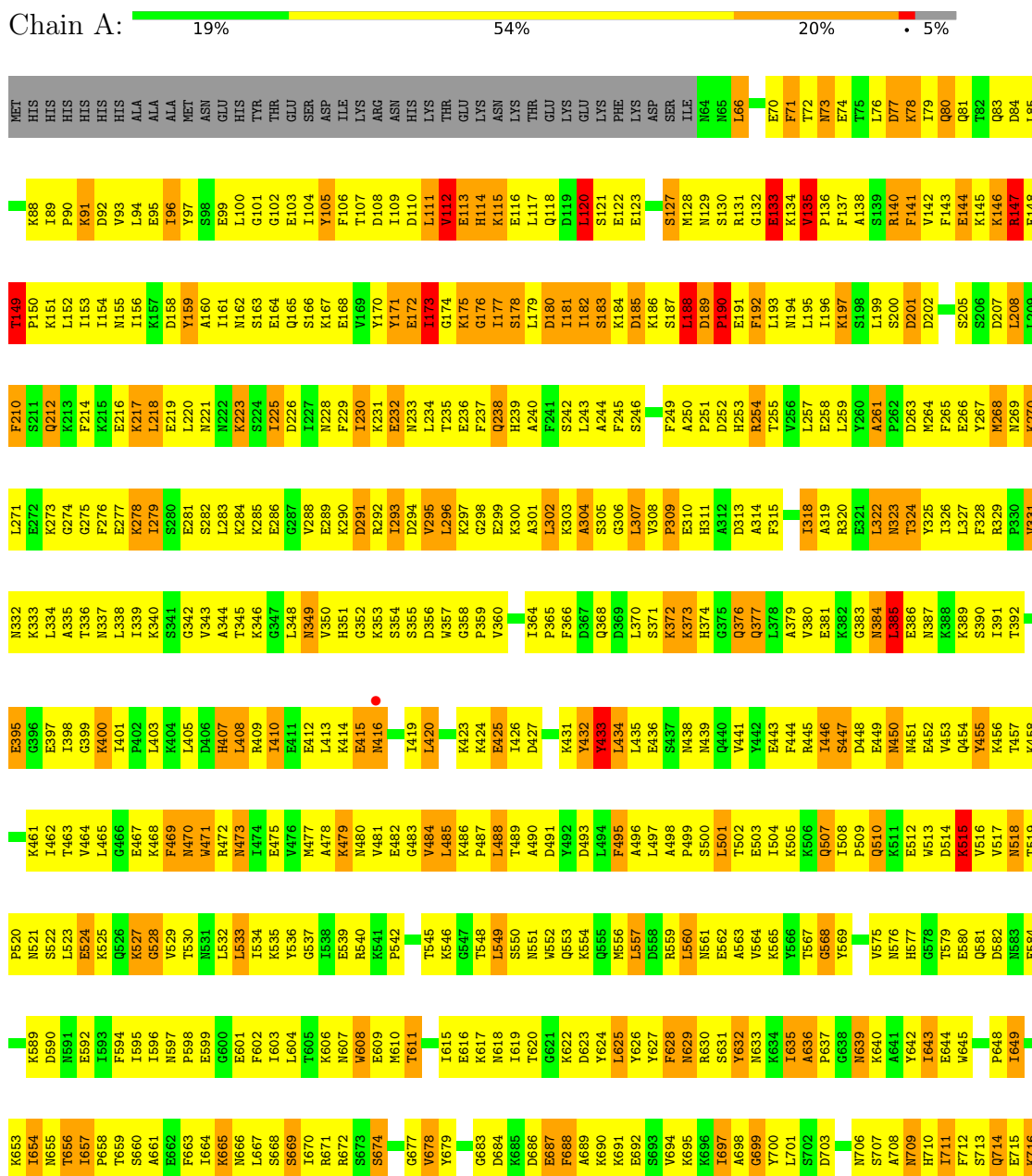
- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

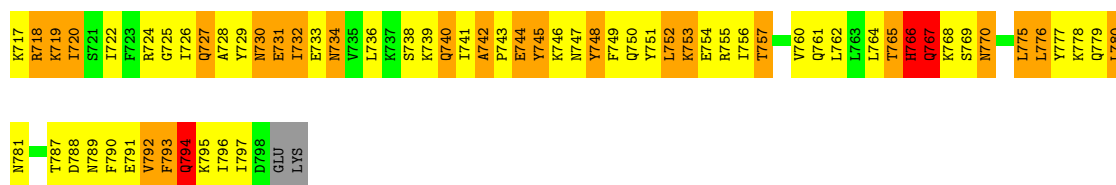
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	O	2	Total	Ca	0	0
			2	2		
4	P	2	Total	Ca	0	0
			2	2		
4	Q	2	Total	Ca	0	0
			2	2		
4	R	2	Total	Ca	0	0
			2	2		
4	S	2	Total	Ca	0	0
			2	2		
4	T	2	Total	Ca	0	0
			2	2		

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

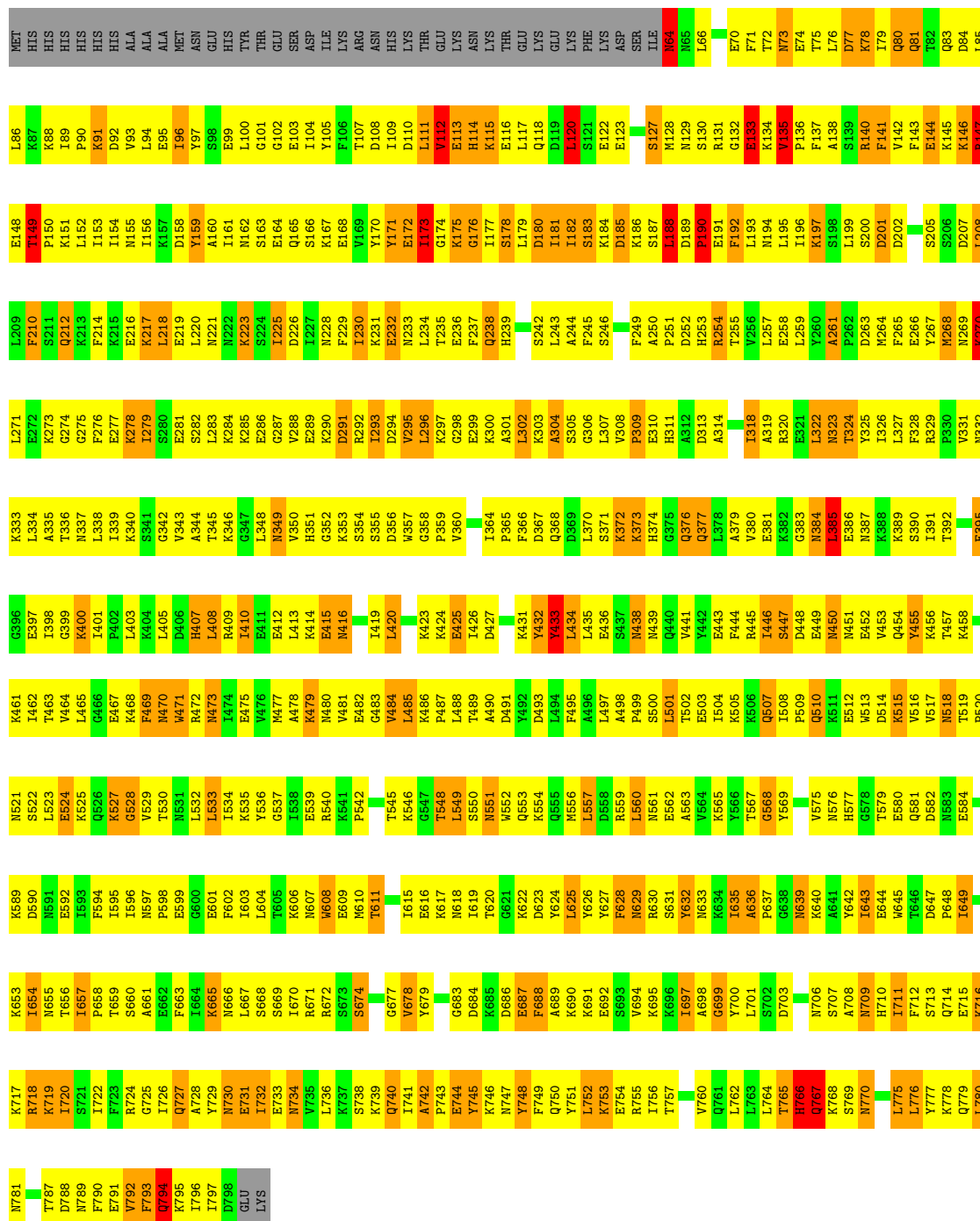
- Molecule 1: Calmodulin-sensitive adenylate cyclase



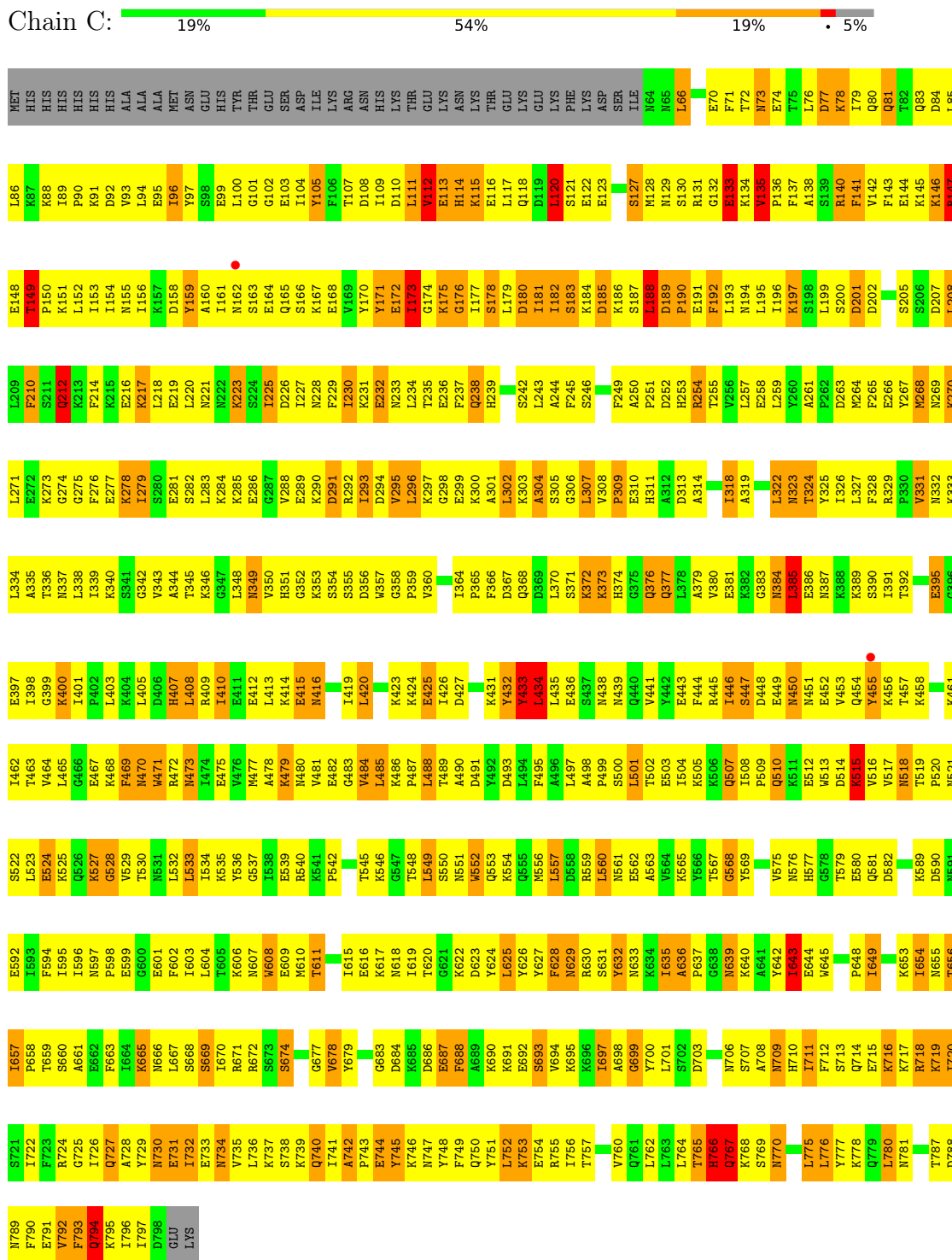


• Molecule 1: Calmodulin-sensitive adenylate cyclase

Chain B: 19% 55% 19% 5%



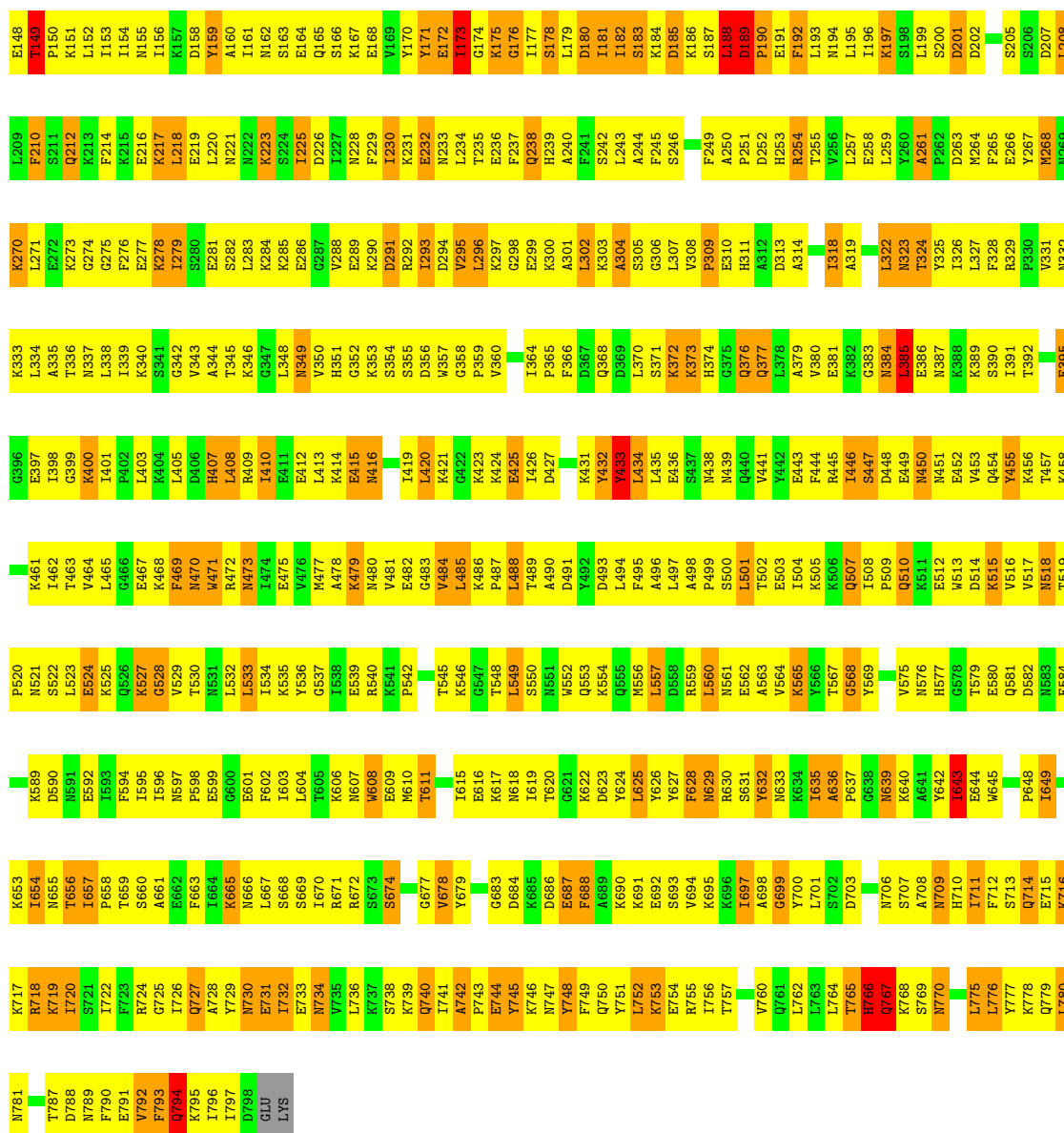
- Molecule 1: Calmodulin-sensitive adenylylate cyclase



- Molecule 1: Calmodulin-sensitive adenylate cyclase

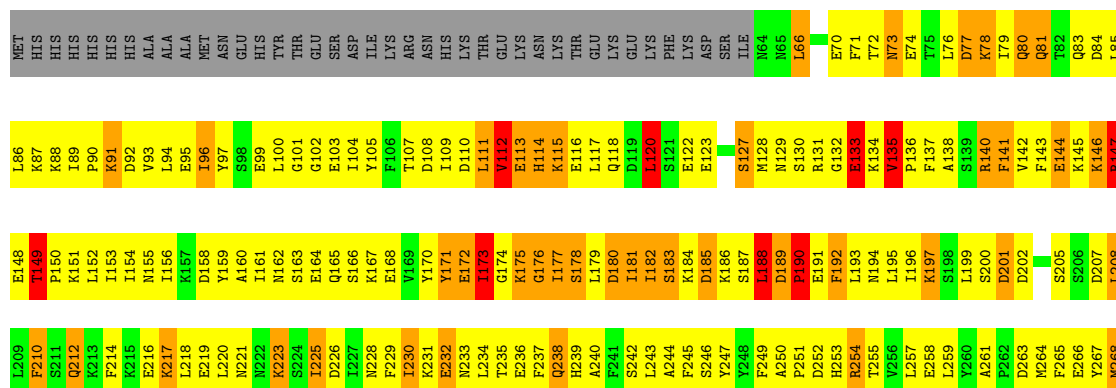


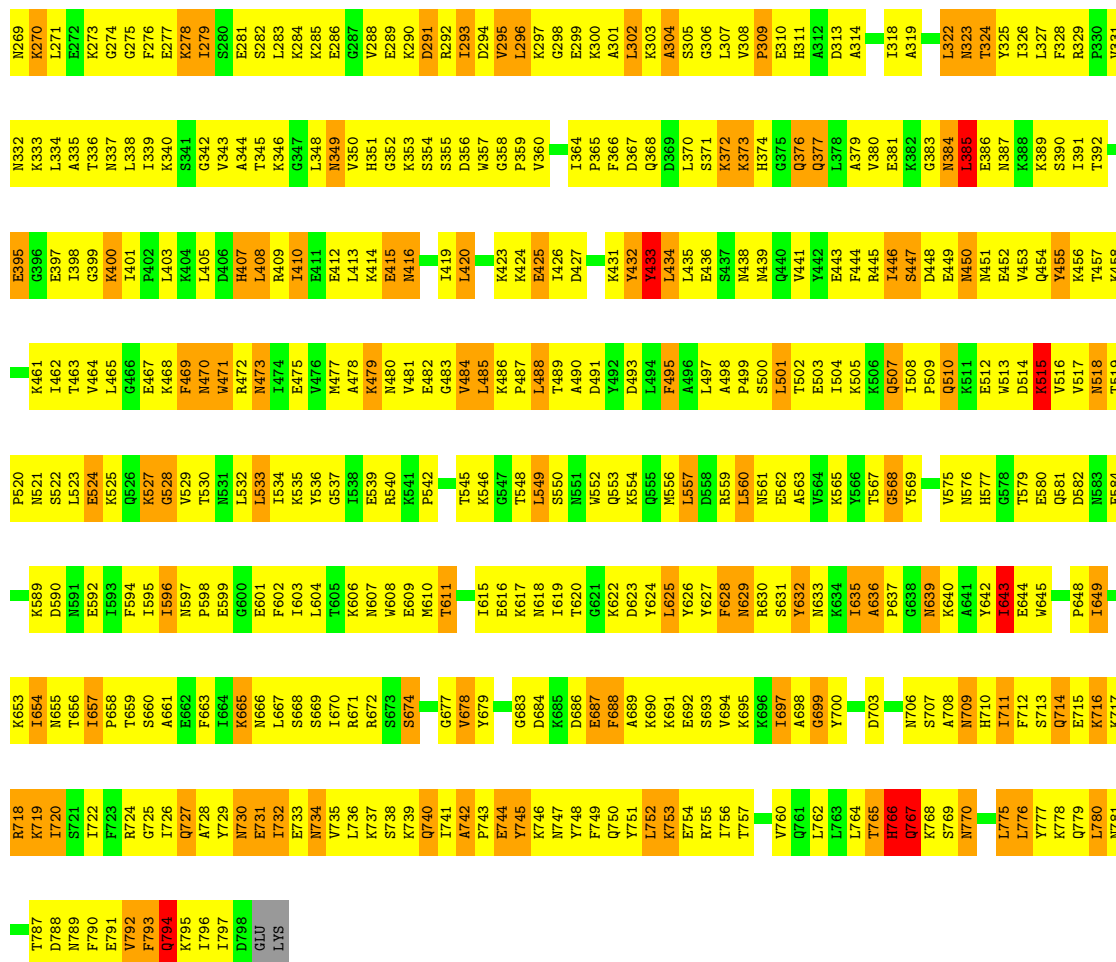
MET	HIS	L86	L87	L88	L89	L90	L91	L92	L93	L94	L95	L96	L97	L98	L99	L100	L101	L102	L103	L104	L105	L106	L107	L108	L109	L110	L111	L112	L113	L114	L115	L116	L117	L118	L119	L120	L121	L122	L123	L124	L125	L126	L127	L128	L129	L130	L131	L132	L133	L134	L135	L136	L137	L138	L139	L140	L141	L142	L143	L144	L145	L146	L147	L148	L149	L150	L151	L152	L153	L154	L155	L156	L157	L158	L159	L160	L161	L162	L163	L164	L165	L166	L167	L168	L169	L170	L171	L172	L173	L174	L175	L176	L177	L178	L179	L180	L181	L182	L183	L184	L185	L186	L187	L188	L189	L190	L191	L192	L193	L194	L195	L196	L197	L198	L199	L200	L201	L202	L203	L204	L205	L206	L207	L208	L209	L210	L211	L212	L213	L214	L215	L216	L217	L218	L219	L220	L221	L222	L223	L224	L225	L226	L227	L228	L229	L230	L231	L232	L233	L234	L235	L236	L237	L238	L239	L240	L241	L242	L243	L244	L245	L246	L247	L248	L249	L250	L251	L252	L253	L254	L255	L256	L257	L258	L259	L260	L261	L262	L263	L264	L265	L266	L267	L268	L269	L270	L271	L272	L273	L274	L275	L276	L277	L278	L279	L280	L281	L282	L283	L284	L285	L286	L287	L288	L289	L290	L291	L292	L293	L294	L295	L296	L297	L298	L299	L300	L301	L302	L303	L304	L305	L306	L307	L308	L309	L310	L311	L312	L313	L314	L315	L316	L317	L318	L319	L320	L321	L322	L323	L324	L325	L326	L327	L328	L329	L330	L331	L332	L333	L334	L335	L336	L337	L338	L339	L340	L341	L342	L343	L344	L345	L346	L347	L348	L349	L350	L351	L352	L353	L354	L355	L356	L357	L358	L359	L360	L361	L362	L363	L364	L365	L366	L367	L368	L369	L370	L371	L372	L373	L374	L375	L376	L377	L378	L379	L380	L381	L382	L383	L384	L385	L386	L387	L388	L389	L390	L391	L392	L393	L394	L395	L396	L397	L398	L399	L400	L401	L402	L403	L404	L405	L406	L407	L408	L409	L410	L411	L412	L413	L414	L415	L416	L417	L418	L419	L420	L421	L422	L423	L424	L425	L426	L427	L428	L429	L430	L431	L432	L433	L434	L435	L436	L437	L438	L439	L440	L441	L442	L443	L444	L445	L446	L447	L448	L449	L450	L451	L452	L453	L454	L455	L456	L457	L458	L459	L460	L461	L462	L463	L464	L465	L466	L467	L468	L469	L470	L471	L472	L473	L474	L475	L476	L477	L478	L479	L480	L481	L482	L483	L484	L485	L486	L487	L488	L489	L490	L491	L492	L493	L494	L495	L496	L497	L498	L499	L500	L501	L502	L503	L504	L505	L506	L507	L508	L509	L510	L511	L512	L513	L514	L515	L516	L517	L518	L519	L520	L521	L522	L523	L524	L525	L526	L527	L528	L529	L530	L531	L532	L533	L534	L535	L536	L537	L538	L539	L540	L541	L542	L543	L544	L545	L546	L547	L548	L549	L550	L551	L552	L553	L554	L555	L556	L557	L558	L559	L560	L561	L562	L563	L564	L565	L566	L567	L568	L569	L570	L571	L572	L573	L574	L575	L576	L577	L578	L579	L580	L581	L582	L583	L584	L585	L586	L587	L588	L589	L590	L591	L592	L593	L594	L595	L596	L597	L598	L599	L600	L601	L602	L603	L604	L605	L606	L607	L608	L609	L610	L611	L612	L613	L614	L615	L616	L617	L618	L619	L620	L621	L622	L623	L624	L625	L626	L627	L628	L629	L630	L631	L632	L633	L634	L635	L636	L637	L638	L639	L640	L641	L642	L643	L644	L645	L646	L647	L648	L649	L650	L651	L652	L653	L654	L655	L656	L657	L658	L659	L660	L661	L662	L663	L664	L665	L666	L667	L668	L669	L670	L671	L672	L673	L674	L675	L676	L677	L678	L679	L680	L681	L682	L683	L684	L685	L686	L687	L688	L689	L690	L691	L692	L693	L694	L695	L696	L697	L698	L699	L700	L701	L702	L703	L704	L705	L706	L707	L708	L709	L710	L711	L712	L713	L714	L715	L716	L717	L718	L719	L720	L721	L722	L723	L724	L725	L726	L727	L728	L729	L730	L731	L732	L733	L734	L735	L736	L737	L738	L739	L740	L741	L742	L743	L744	L745	L746	L747	L748	L749	L750	L751	L752	L753	L754	L755	L756	L757	L758	L759	L760	L761	L762	L763	L764	L765	L766	L767	L768	L769	L770	L771	L772	L773	L774	L775	L776	L777	L778	L779	L780	L781	L782	L783	L784	L785	L786	L787	L788	L789	L790	L791	L792	L793	L794	L795	L796	L797	L798	L799	L800	L801	L802	L803	L804	L805	L806	L807	L808	L809	L810	L811	L812	L813	L814	L815	L816	L817	L818	L819	L820	L821	L822	L823	L824	L825	L826	L827	L828	L829	L830	L831	L832	L833	L834	L835	L836	L837	L838	L839	L840	L841	L842	L843	L844	L845	L846	L847	L848	L849	L850	L851	L852	L853	L854	L855	L856	L857	L858	L859	L860	L861	L862	L863	L864	L865	L866	L867	L868	L869	L870	L871	L872	L873	L874	L875	L876	L877	L878	L879	L880	L881	L882	L883	L884	L885	L886	L887	L888	L889	L890	L891	L892	L893	L894	L895	L896	L897	L898	L899	L900	L901	L902	L903	L904	L905	L906	L907	L908	L909	L910	L911	L912	L913	L914	L915	L916	L917	L918	L919	L920	L921	L922	L923	L924	L925	L926	L927	L928	L929	L930	L931	L932	L933	L934	L935	L936	L937	L938	L939	L940	L941	L942	L943	L944	L945	L946	L947	L948	L949	L950	L951	L952	L953	L954	L955	L956	L957	L958	L959	L960	L961	L962	L963	L964	L965	L966	L967	L968	L969	L970	L971	L972	L973	L974	L975	L976	L977	L978	L979	L980	L981	L982	L983	L984	L985	L986	L987	L988	L989	L990	L991	L992	L993	L994	L995	L996	L997	L998	L999	L1000	L1001	L1002	L1003	L1004	L1005	L1006	L1007	L1008	L1009	L1010	L1011	L1012	L1013	L1014	L1015	L1016	L1017	L1018	L1019	L1020	L1021	L1022	L1023	L1024	L1025	L1026	L1027	L1028	L1029	L1030	L1031	L1032	L1033	L1034	L1035	L1036	L1037	L1038	L1039	L1040	L1041	L1042	L1043	L1044	L1045	L1046	L1047	L1048	L1049	L1050	L1051	L1052	L1053	L1054	L1055	L1056	L1057	L1058	L1059	L1060	L1061	L1062	L1063	L1064	L1065	L1066	L1067	L1068	L1069	L1070	L1071	L107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● Molecule 1: Calmodulin-sensitive adenylylate cyclase

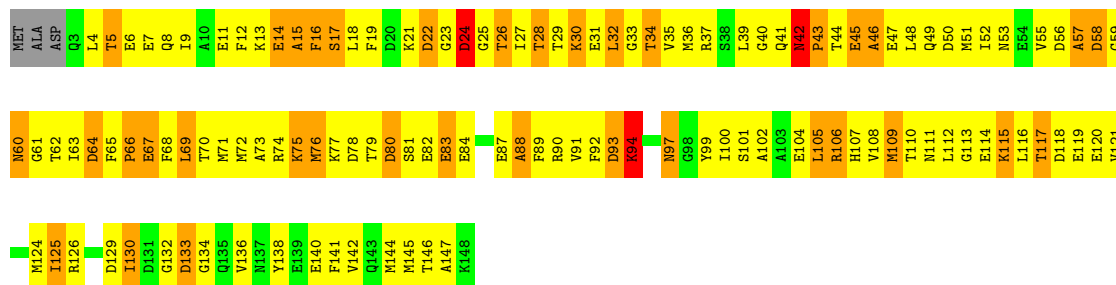
Chain F: 19% 55% 18% 5%





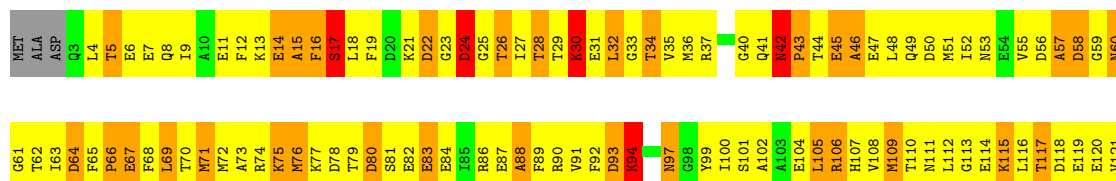
• Molecule 2: Calmodulin 2

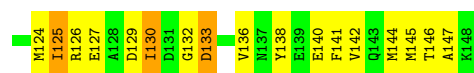
Chain O: 14% 58% 24% . .



• Molecule 2: Calmodulin 2

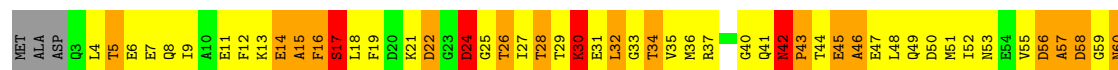
Chain P: 14% 57% 23% . .





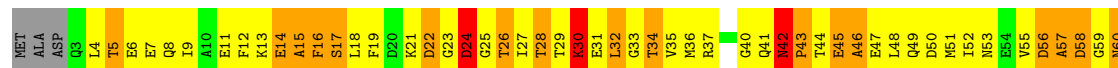
• Molecule 2: Calmodulin 2

Chain Q: 15% 55% 24% . .



• Molecule 2: Calmodulin 2

Chain R: 13% 58% 25% . .



• Molecule 2: Calmodulin 2

Chain S: 13% 58% 24% . .



• Molecule 2: Calmodulin 2

Chain T: 13% 58% 24% . .



M60	M61	M62	M63	M64	M65	M66	M67	M68	M69	M70	M71	M72	M73	M74	M75	M76	M77	M78	M79	M80	M81	M82	M83	M84	M85	M86	M87	M88	M89	M90	M91	M92	M93	M94	M95	M96	M97	M98	M99	I100	I101	I102	I103	I104	I105	I106	I107	I108	I109	I110	I111	I112	I113	I114	I115	I116	I117	I118	I119	I120	I121	I122	I123	I124	I125	I126	I127	I128	I129	I130	I131	G132	G133	G134	Q135	V136	N137	E138	E139	E140	F141	V142	Q143	M144	M145	T146	A147	K148
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4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	315.62Å 182.04Å 141.02Å 90.00° 89.93° 90.00°	Depositor
Resolution (Å)	10.00 – 3.30 10.00 – 3.30	Depositor EDS
% Data completeness (in resolution range)	93.9 (10.00-3.30) 93.8 (10.00-3.30)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	0.03	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.269 , 0.289 0.244 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	101.4	Xtriage
Anisotropy	0.113	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 166.8	EDS
L-test for twinning ¹	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.448 for -1/2*h-3/2*k,-1/2*h+1/2*k,-l 0.448 for -1/2*h+3/2*k,1/2*h+1/2*k,-l 0.448 for 1/2*h-3/2*k,-1/2*h-1/2*k,-l 0.448 for 1/2*h+3/2*k,1/2*h-1/2*k,-l 0.458 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	42846	wwPDB-VP
Average B, all atoms (Å ²)	83.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.18% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, MG

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	0.69	7/6104 (0.1%)	1.28	89/8208 (1.1%)
1	B	0.69	7/6104 (0.1%)	1.30	86/8208 (1.0%)
1	C	0.69	6/6104 (0.1%)	1.29	93/8208 (1.1%)
1	D	0.70	7/6104 (0.1%)	1.29	91/8208 (1.1%)
1	E	0.70	7/6104 (0.1%)	1.29	93/8208 (1.1%)
1	F	0.69	6/6104 (0.1%)	1.29	85/8208 (1.0%)
2	O	0.65	0/1158	1.33	21/1553 (1.4%)
2	P	0.66	0/1158	1.33	21/1553 (1.4%)
2	Q	0.66	0/1158	1.33	19/1553 (1.2%)
2	R	0.66	0/1158	1.32	21/1553 (1.4%)
2	S	0.67	1/1158 (0.1%)	1.32	21/1553 (1.4%)
2	T	0.64	0/1158	1.33	21/1553 (1.4%)
All	All	0.69	41/43572 (0.1%)	1.29	661/58566 (1.1%)

All (41) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	190	PRO	N-CA	-7.62	1.37	1.47
1	F	433	TYR	N-CA	-7.36	1.36	1.46
1	C	433	TYR	N-CA	-7.30	1.36	1.46
1	A	433	TYR	N-CA	-7.28	1.36	1.46
1	B	433	TYR	N-CA	-7.28	1.36	1.46
1	E	433	TYR	N-CA	-7.26	1.36	1.46
1	D	433	TYR	N-CA	-7.25	1.36	1.46
1	A	190	PRO	N-CA	-6.24	1.39	1.47
1	F	322	LEU	N-CA	-5.65	1.39	1.45
1	E	322	LEU	N-CA	-5.65	1.39	1.45
1	C	322	LEU	N-CA	-5.65	1.39	1.45
1	B	322	LEU	N-CA	-5.64	1.39	1.45
1	A	322	LEU	N-CA	-5.62	1.39	1.45
1	C	147	ARG	N-CA	5.61	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	147	ARG	N-CA	5.61	1.53	1.46
1	D	322	LEU	N-CA	-5.59	1.39	1.45
1	D	147	ARG	N-CA	5.57	1.53	1.46
1	A	147	ARG	N-CA	5.57	1.53	1.46
1	B	147	ARG	N-CA	5.57	1.53	1.46
1	E	147	ARG	N-CA	5.54	1.53	1.46
1	D	160	ALA	N-CA	5.49	1.53	1.46
1	E	160	ALA	N-CA	5.49	1.53	1.46
1	C	160	ALA	N-CA	5.47	1.53	1.46
1	A	160	ALA	N-CA	5.47	1.53	1.46
1	F	160	ALA	N-CA	5.45	1.53	1.46
1	B	160	ALA	N-CA	5.44	1.53	1.46
1	B	766	HIS	CB-CG	5.36	1.57	1.50
1	A	766	HIS	CB-CG	5.32	1.57	1.50
1	F	766	HIS	CB-CG	5.31	1.57	1.50
1	D	766	HIS	CB-CG	5.31	1.57	1.50
1	C	766	HIS	CB-CG	5.29	1.57	1.50
1	E	766	HIS	CB-CG	5.26	1.57	1.50
1	B	183	SER	C-N	-5.15	1.26	1.33
1	B	425	GLU	C-N	5.15	1.40	1.33
2	S	42	ASN	CA-C	5.14	1.59	1.52
1	C	183	SER	C-N	-5.12	1.26	1.33
1	E	183	SER	C-N	-5.11	1.26	1.33
1	A	183	SER	C-N	-5.11	1.26	1.33
1	F	183	SER	C-N	-5.10	1.26	1.33
1	D	183	SER	C-N	-5.10	1.26	1.33
1	E	425	GLU	C-N	5.05	1.40	1.33

All (661) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Q	22	ASP	N-CA-C	-13.06	90.94	110.14
2	O	22	ASP	N-CA-C	-13.03	90.99	110.14
2	P	22	ASP	N-CA-C	-12.93	91.14	110.14
2	R	22	ASP	N-CA-C	-12.88	91.21	110.14
2	S	22	ASP	N-CA-C	-12.88	91.21	110.14
2	T	22	ASP	N-CA-C	-12.87	91.23	110.14
1	B	632	TYR	N-CA-C	12.80	125.23	111.28
1	E	219	GLU	N-CA-C	-12.79	97.19	112.92
1	E	632	TYR	N-CA-C	12.77	125.20	111.28
1	D	632	TYR	N-CA-C	12.76	125.19	111.28
1	A	632	TYR	N-CA-C	12.75	125.18	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	632	TYR	N-CA-C	12.74	125.17	111.28
1	F	632	TYR	N-CA-C	12.71	125.13	111.28
1	C	219	GLU	N-CA-C	-12.61	97.42	112.92
1	D	219	GLU	N-CA-C	-12.59	97.43	112.92
1	F	219	GLU	N-CA-C	-12.58	97.44	112.92
1	A	219	GLU	N-CA-C	-12.57	97.46	112.92
1	B	219	GLU	N-CA-C	-12.48	97.57	112.92
1	B	160	ALA	N-CA-C	12.21	136.80	110.80
1	F	160	ALA	N-CA-C	12.20	136.78	110.80
1	E	160	ALA	N-CA-C	12.19	136.76	110.80
1	A	160	ALA	N-CA-C	12.18	136.75	110.80
1	D	160	ALA	N-CA-C	12.18	136.74	110.80
1	C	160	ALA	N-CA-C	12.17	136.72	110.80
2	P	88	ALA	N-CA-C	-11.85	98.39	111.07
2	R	88	ALA	N-CA-C	-11.81	98.43	111.07
2	S	88	ALA	N-CA-C	-11.80	98.45	111.07
2	Q	88	ALA	N-CA-C	-11.72	98.52	111.07
2	O	88	ALA	N-CA-C	-11.65	98.60	111.07
2	T	88	ALA	N-CA-C	-11.47	98.80	111.07
1	D	322	LEU	N-CA-C	-11.46	91.71	110.17
1	A	322	LEU	N-CA-C	-11.45	91.73	110.17
1	B	322	LEU	N-CA-C	-11.45	91.73	110.17
1	F	322	LEU	N-CA-C	-11.44	91.75	110.17
1	C	322	LEU	N-CA-C	-11.44	91.75	110.17
1	E	322	LEU	N-CA-C	-11.43	91.77	110.17
1	B	64	ASN	CA-C-N	-11.12	107.29	122.30
1	B	64	ASN	C-N-CA	-11.12	107.29	122.30
1	B	674	SER	N-CA-C	-10.71	93.12	109.94
1	F	674	SER	N-CA-C	-10.71	93.12	109.94
1	E	674	SER	N-CA-C	-10.70	93.14	109.94
1	A	674	SER	N-CA-C	-10.70	93.14	109.94
1	D	674	SER	N-CA-C	-10.69	93.16	109.94
1	C	674	SER	N-CA-C	-10.69	93.16	109.94
1	B	173	ILE	N-CA-C	-10.51	100.33	110.42
1	C	173	ILE	N-CA-C	-10.42	100.42	110.42
1	D	173	ILE	N-CA-C	-10.21	100.62	110.42
1	A	173	ILE	N-CA-C	-10.13	100.69	110.42
1	E	173	ILE	N-CA-C	-10.09	100.73	110.42
1	F	173	ILE	N-CA-C	-10.09	100.74	110.42
1	D	212	GLN	OE1-CD-NE2	-10.07	112.53	122.60
1	A	212	GLN	OE1-CD-NE2	-10.01	112.59	122.60
1	E	212	GLN	OE1-CD-NE2	-10.01	112.59	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	212	GLN	OE1-CD-NE2	-10.00	112.60	122.60
1	C	212	GLN	OE1-CD-NE2	-9.99	112.61	122.60
1	B	212	GLN	OE1-CD-NE2	-9.98	112.62	122.60
1	F	433	TYR	N-CA-C	-9.82	89.88	110.80
1	A	433	TYR	N-CA-C	-9.82	89.89	110.80
1	B	433	TYR	N-CA-C	-9.82	89.89	110.80
1	C	433	TYR	N-CA-C	-9.81	89.90	110.80
1	D	433	TYR	N-CA-C	-9.80	89.92	110.80
1	E	433	TYR	N-CA-C	-9.81	89.91	110.80
1	C	770	ASN	N-CA-C	-9.63	101.30	113.43
1	B	740	GLN	OE1-CD-NE2	-9.61	113.00	122.60
1	D	770	ASN	N-CA-C	-9.61	101.33	113.43
1	C	740	GLN	OE1-CD-NE2	-9.60	113.00	122.60
1	B	770	ASN	N-CA-C	-9.60	101.34	113.43
1	F	740	GLN	OE1-CD-NE2	-9.58	113.02	122.60
1	A	740	GLN	OE1-CD-NE2	-9.58	113.02	122.60
1	E	740	GLN	OE1-CD-NE2	-9.57	113.03	122.60
1	D	740	GLN	OE1-CD-NE2	-9.56	113.04	122.60
1	F	770	ASN	N-CA-C	-9.52	101.43	113.43
1	E	770	ASN	N-CA-C	-9.50	101.46	113.43
1	A	770	ASN	N-CA-C	-9.49	101.47	113.43
2	T	57	ALA	N-CA-C	-9.36	102.45	112.93
1	A	732	ILE	N-CA-C	-9.33	102.25	110.74
1	E	732	ILE	N-CA-C	-9.33	102.25	110.74
1	E	767	GLN	OE1-CD-NE2	-9.33	113.27	122.60
1	D	767	GLN	OE1-CD-NE2	-9.32	113.28	122.60
1	B	767	GLN	OE1-CD-NE2	-9.31	113.29	122.60
1	F	767	GLN	OE1-CD-NE2	-9.31	113.29	122.60
1	A	767	GLN	OE1-CD-NE2	-9.30	113.30	122.60
1	C	767	GLN	OE1-CD-NE2	-9.26	113.34	122.60
1	D	427	ASP	CA-CB-CG	-9.18	103.42	112.60
1	A	427	ASP	CA-CB-CG	-9.15	103.45	112.60
1	E	427	ASP	CA-CB-CG	-9.14	103.46	112.60
1	F	427	ASP	CA-CB-CG	-9.14	103.46	112.60
1	B	427	ASP	CA-CB-CG	-9.11	103.49	112.60
1	C	427	ASP	CA-CB-CG	-9.10	103.50	112.60
1	C	732	ILE	N-CA-C	-9.09	102.47	110.74
2	O	15	ALA	N-CA-C	-9.08	101.10	112.72
2	P	15	ALA	N-CA-C	-9.05	101.13	112.72
2	T	15	ALA	N-CA-C	-9.04	101.15	112.72
2	R	15	ALA	N-CA-C	-9.03	101.16	112.72
2	Q	15	ALA	N-CA-C	-8.92	101.30	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	S	15	ALA	N-CA-C	-8.88	101.36	112.72
1	B	732	ILE	N-CA-C	-8.86	102.68	110.74
2	Q	57	ALA	N-CA-C	-8.85	103.02	112.93
1	D	732	ILE	N-CA-C	-8.84	102.11	110.42
2	P	57	ALA	N-CA-C	-8.82	103.05	112.93
2	S	57	ALA	N-CA-C	-8.82	103.05	112.93
1	B	427	ASP	N-CA-C	8.79	124.35	111.96
1	C	427	ASP	N-CA-C	8.78	124.34	111.96
1	A	427	ASP	N-CA-C	8.78	124.33	111.96
1	D	427	ASP	N-CA-C	8.77	124.32	111.96
2	R	57	ALA	N-CA-C	-8.76	103.11	112.93
1	E	427	ASP	N-CA-C	8.76	124.31	111.96
1	E	120	LEU	N-CA-C	8.75	125.44	113.37
1	C	120	LEU	N-CA-C	8.75	125.44	113.37
2	O	57	ALA	N-CA-C	-8.74	103.14	112.93
1	F	427	ASP	N-CA-C	8.74	124.29	111.96
1	D	120	LEU	N-CA-C	8.74	125.43	113.37
1	A	120	LEU	N-CA-C	8.73	125.42	113.37
1	F	120	LEU	N-CA-C	8.73	125.41	113.37
1	B	120	LEU	N-CA-C	8.71	125.40	113.37
1	B	200	SER	N-CA-C	-8.56	103.36	113.21
1	D	200	SER	N-CA-C	-8.49	103.44	113.21
1	A	200	SER	N-CA-C	-8.49	103.45	113.21
1	F	188	LEU	N-CA-C	-8.49	92.72	110.80
1	C	188	LEU	N-CA-C	-8.49	92.72	110.80
1	A	188	LEU	N-CA-C	-8.48	92.74	110.80
1	E	188	LEU	N-CA-C	-8.48	92.74	110.80
1	B	188	LEU	N-CA-C	-8.47	92.76	110.80
1	F	200	SER	N-CA-C	-8.46	103.48	113.21
1	D	188	LEU	N-CA-C	-8.46	92.78	110.80
1	E	200	SER	N-CA-C	-8.46	103.48	113.21
1	C	200	SER	N-CA-C	-8.36	103.60	113.21
1	F	732	ILE	N-CA-C	-8.32	102.60	110.42
1	E	183	SER	N-CA-C	-8.31	93.09	110.80
1	F	183	SER	N-CA-C	-8.30	93.13	110.80
1	C	183	SER	N-CA-C	-8.29	93.14	110.80
1	A	183	SER	N-CA-C	-8.29	93.15	110.80
1	D	183	SER	N-CA-C	-8.28	93.17	110.80
1	B	183	SER	N-CA-C	-8.27	93.19	110.80
1	C	147	ARG	N-CA-C	8.20	128.27	110.80
1	D	147	ARG	N-CA-C	8.20	128.27	110.80
1	B	147	ARG	N-CA-C	8.19	128.25	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	147	ARG	N-CA-C	8.19	128.24	110.80
1	E	147	ARG	N-CA-C	8.19	128.24	110.80
1	F	147	ARG	N-CA-C	8.18	128.23	110.80
1	F	426	ILE	N-CA-C	7.93	119.33	106.72
1	E	426	ILE	N-CA-C	7.90	119.28	106.72
1	A	426	ILE	N-CA-C	7.90	119.28	106.72
1	C	426	ILE	N-CA-C	7.90	119.28	106.72
1	D	426	ILE	N-CA-C	7.90	119.28	106.72
1	B	426	ILE	N-CA-C	7.88	119.24	106.72
1	E	190	PRO	CA-C-N	-7.87	111.87	122.72
1	E	190	PRO	C-N-CA	-7.87	111.87	122.72
1	D	426	ILE	CB-CA-C	-7.70	102.00	111.32
1	F	426	ILE	CB-CA-C	-7.69	102.02	111.32
1	A	426	ILE	CB-CA-C	-7.67	102.04	111.32
1	C	426	ILE	CB-CA-C	-7.67	102.04	111.32
1	E	426	ILE	CB-CA-C	-7.67	102.04	111.32
1	B	426	ILE	CB-CA-C	-7.66	102.05	111.32
1	D	190	PRO	CB-CA-C	7.35	123.69	111.56
1	C	282	SER	N-CA-C	-7.32	104.33	113.18
1	F	282	SER	N-CA-C	-7.29	104.36	113.18
1	E	433	TYR	CB-CA-C	7.27	124.89	110.42
1	C	433	TYR	CB-CA-C	7.27	124.89	110.42
1	F	433	TYR	CB-CA-C	7.27	124.88	110.42
1	A	433	TYR	CB-CA-C	7.26	124.87	110.42
1	D	433	TYR	CB-CA-C	7.26	124.87	110.42
1	B	433	TYR	CB-CA-C	7.24	124.84	110.42
1	E	277	GLU	N-CA-C	-7.24	103.92	112.89
1	B	190	PRO	CB-CA-C	7.23	123.48	111.56
1	A	277	GLU	N-CA-C	-7.22	103.94	112.89
1	B	277	GLU	N-CA-C	-7.19	103.98	112.89
1	A	221	ASN	N-CA-C	-7.18	104.50	113.18
1	F	221	ASN	N-CA-C	-7.17	104.50	113.18
1	D	282	SER	N-CA-C	-7.17	104.51	113.18
1	A	282	SER	N-CA-C	-7.14	104.54	113.18
1	D	277	GLU	N-CA-C	-7.14	104.03	112.89
1	C	127	SER	N-CA-C	7.14	120.06	108.63
1	E	127	SER	N-CA-C	7.14	120.06	108.63
2	Q	132	GLY	N-CA-C	7.14	124.49	115.42
1	F	127	SER	N-CA-C	7.13	120.04	108.63
1	A	127	SER	N-CA-C	7.13	120.04	108.63
1	C	129	ASN	N-CA-C	7.13	121.85	111.02
1	B	129	ASN	N-CA-C	7.12	121.85	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	129	ASN	N-CA-C	7.12	121.84	111.02
1	E	282	SER	N-CA-C	-7.11	104.58	113.18
1	D	127	SER	N-CA-C	7.10	120.00	108.63
1	A	129	ASN	N-CA-C	7.10	121.81	111.02
1	B	127	SER	N-CA-C	7.09	119.98	108.63
1	D	129	ASN	N-CA-C	7.09	121.80	111.02
1	E	129	ASN	N-CA-C	7.08	121.78	111.02
1	C	221	ASN	N-CA-C	-7.07	104.62	113.18
2	O	42	ASN	CA-C-N	7.07	128.67	119.84
2	O	42	ASN	C-N-CA	7.07	128.67	119.84
1	B	221	ASN	N-CA-C	-7.06	104.64	113.18
2	P	132	GLY	N-CA-C	7.04	124.36	115.42
1	B	72	THR	CA-C-N	7.02	129.56	120.44
1	B	72	THR	C-N-CA	7.02	129.56	120.44
1	B	282	SER	N-CA-C	-7.01	104.69	113.18
1	F	277	GLU	N-CA-C	-7.00	104.20	112.89
2	Q	42	ASN	CA-C-N	7.00	128.59	119.84
2	Q	42	ASN	C-N-CA	7.00	128.59	119.84
1	D	221	ASN	N-CA-C	-6.99	104.72	113.18
1	E	221	ASN	N-CA-C	-6.99	104.72	113.18
2	R	42	ASN	CA-C-N	6.99	128.57	119.84
2	R	42	ASN	C-N-CA	6.99	128.57	119.84
1	B	72	THR	N-CA-C	-6.97	105.58	112.97
2	P	42	ASN	CA-C-N	6.96	128.54	119.84
2	P	42	ASN	C-N-CA	6.96	128.54	119.84
1	A	72	THR	N-CA-C	-6.92	105.63	112.97
1	C	277	GLU	N-CA-C	-6.92	104.31	112.89
1	D	190	PRO	N-CA-C	-6.92	98.21	112.47
1	F	190	PRO	CA-C-N	-6.92	111.85	122.09
1	F	190	PRO	C-N-CA	-6.92	111.85	122.09
1	C	358	GLY	CA-C-N	6.91	126.16	118.97
1	C	358	GLY	C-N-CA	6.91	126.16	118.97
2	T	64	ASP	N-CA-C	-6.90	101.92	110.41
2	O	132	GLY	N-CA-C	6.90	124.18	115.42
1	E	72	THR	N-CA-C	-6.89	105.67	112.97
1	C	190	PRO	N-CA-C	-6.85	98.36	112.47
1	D	72	THR	N-CA-C	-6.85	105.71	112.97
1	E	767	GLN	CG-CD-NE2	6.84	126.66	116.40
1	D	767	GLN	CG-CD-NE2	6.83	126.65	116.40
1	A	767	GLN	CG-CD-NE2	6.83	126.64	116.40
1	B	767	GLN	CG-CD-NE2	6.83	126.64	116.40
1	C	72	THR	N-CA-C	-6.82	105.74	112.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	767	GLN	CG-CD-NE2	6.82	126.62	116.40
1	F	72	THR	CA-C-N	6.82	129.30	120.44
1	F	72	THR	C-N-CA	6.82	129.30	120.44
1	F	767	GLN	CG-CD-NE2	6.81	126.61	116.40
1	F	358	GLY	CA-C-N	6.78	126.03	118.97
1	F	358	GLY	C-N-CA	6.78	126.03	118.97
2	S	42	ASN	CA-C-N	6.78	128.32	119.84
2	S	42	ASN	C-N-CA	6.78	128.32	119.84
2	O	64	ASP	N-CA-C	-6.78	102.07	110.41
1	E	66	LEU	N-CA-C	6.77	118.31	111.07
2	O	24	ASP	N-CA-C	6.77	119.66	111.40
1	E	427	ASP	CA-C-N	-6.76	111.83	123.25
1	E	427	ASP	C-N-CA	-6.76	111.83	123.25
1	A	546	LYS	N-CA-C	6.76	120.13	112.97
1	B	427	ASP	CA-C-N	-6.76	111.83	123.25
1	B	427	ASP	C-N-CA	-6.76	111.83	123.25
2	R	24	ASP	N-CA-C	6.76	119.64	111.40
2	S	64	ASP	N-CA-C	-6.75	102.10	110.41
2	P	24	ASP	N-CA-C	6.75	119.63	111.40
1	F	427	ASP	CA-C-N	-6.74	111.85	123.25
1	F	427	ASP	C-N-CA	-6.74	111.85	123.25
1	A	427	ASP	CA-C-N	-6.74	111.86	123.25
1	A	427	ASP	C-N-CA	-6.74	111.86	123.25
1	C	66	LEU	N-CA-C	6.74	118.28	111.07
1	F	190	PRO	CB-CA-C	6.73	122.67	111.56
1	C	427	ASP	CA-C-N	-6.72	111.90	123.25
1	C	427	ASP	C-N-CA	-6.72	111.90	123.25
2	Q	64	ASP	N-CA-C	-6.72	102.15	110.41
1	D	427	ASP	CA-C-N	-6.71	111.91	123.25
1	D	427	ASP	C-N-CA	-6.71	111.91	123.25
2	T	132	GLY	N-CA-C	6.71	123.94	115.42
1	E	546	LYS	N-CA-C	6.70	120.07	112.97
2	S	24	ASP	N-CA-C	6.70	119.57	111.40
2	S	132	GLY	N-CA-C	6.69	123.92	115.42
1	E	190	PRO	CB-CA-C	6.69	122.60	111.56
2	T	24	ASP	N-CA-C	6.68	119.55	111.40
1	A	358	GLY	CA-C-N	6.67	125.91	118.97
1	A	358	GLY	C-N-CA	6.67	125.91	118.97
2	O	25	GLY	N-CA-C	-6.67	97.36	113.18
2	T	25	GLY	N-CA-C	-6.67	97.36	113.18
2	T	42	ASN	CA-C-N	6.67	128.18	119.84
2	T	42	ASN	C-N-CA	6.67	128.18	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	P	64	ASP	N-CA-C	-6.66	102.22	110.41
1	E	190	PRO	N-CA-C	-6.66	98.76	112.47
1	F	72	THR	N-CA-C	-6.66	105.92	112.97
2	Q	25	GLY	N-CA-C	-6.65	97.41	113.18
1	B	358	GLY	CA-C-N	6.63	125.87	118.97
1	B	358	GLY	C-N-CA	6.63	125.87	118.97
1	A	72	THR	CA-C-N	6.62	129.05	120.44
1	A	72	THR	C-N-CA	6.62	129.05	120.44
1	A	190	PRO	CB-CA-C	6.62	122.48	111.56
2	Q	24	ASP	N-CA-C	6.60	119.45	111.40
1	F	73	ASN	N-CA-C	6.58	118.11	111.07
1	F	643	ILE	CB-CA-C	6.58	122.08	111.29
1	D	73	ASN	N-CA-C	6.58	118.11	111.07
1	B	149	THR	N-CA-C	-6.58	101.22	110.29
1	B	73	ASN	N-CA-C	6.57	118.10	111.07
1	E	358	GLY	CA-C-N	6.57	125.81	118.97
1	E	358	GLY	C-N-CA	6.57	125.81	118.97
2	P	25	GLY	N-CA-C	-6.57	97.60	113.18
1	E	149	THR	N-CA-C	-6.57	101.22	110.29
1	D	149	THR	N-CA-C	-6.57	101.22	110.29
1	C	212	GLN	CG-CD-NE2	6.57	126.25	116.40
1	A	149	THR	N-CA-C	-6.56	101.23	110.29
1	D	212	GLN	CG-CD-NE2	6.56	126.24	116.40
1	C	149	THR	N-CA-C	-6.56	101.24	110.29
2	R	132	GLY	N-CA-C	6.55	123.73	115.42
1	A	304	ALA	N-CA-C	-6.54	104.92	113.17
1	A	73	ASN	N-CA-C	6.54	118.07	111.07
1	A	212	GLN	CG-CD-NE2	6.54	126.22	116.40
1	C	73	ASN	N-CA-C	6.53	118.06	111.07
1	F	149	THR	N-CA-C	-6.53	101.28	110.29
1	E	73	ASN	N-CA-C	6.52	118.05	111.07
1	B	212	GLN	CG-CD-NE2	6.52	126.18	116.40
1	A	469	PHE	N-CA-C	6.52	119.62	109.52
1	E	212	GLN	CG-CD-NE2	6.52	126.18	116.40
1	F	212	GLN	CG-CD-NE2	6.51	126.17	116.40
2	S	25	GLY	N-CA-C	-6.51	97.75	113.18
1	D	358	GLY	CA-C-N	6.50	125.73	118.97
1	D	358	GLY	C-N-CA	6.50	125.73	118.97
2	R	32	LEU	N-CA-C	-6.48	104.22	111.28
2	T	32	LEU	N-CA-C	-6.48	104.22	111.28
1	B	304	ALA	N-CA-C	-6.45	105.04	113.17
2	R	64	ASP	N-CA-C	-6.45	102.02	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	628	PHE	N-CA-C	6.44	119.89	109.40
2	R	25	GLY	N-CA-C	-6.43	97.94	113.18
1	F	740	GLN	CG-CD-NE2	6.42	126.04	116.40
1	B	469	PHE	N-CA-C	6.42	119.47	109.52
1	E	524	GLU	N-CA-C	-6.42	103.80	111.69
1	C	190	PRO	CB-CA-C	6.42	122.15	111.56
1	F	469	PHE	N-CA-C	6.40	119.44	109.52
1	D	450	ASN	N-CA-C	-6.40	100.02	109.81
1	A	740	GLN	CG-CD-NE2	6.39	125.99	116.40
1	B	740	GLN	CG-CD-NE2	6.39	125.98	116.40
1	E	740	GLN	CG-CD-NE2	6.39	125.98	116.40
1	E	72	THR	CA-C-N	6.38	128.74	120.44
1	E	72	THR	C-N-CA	6.38	128.74	120.44
1	C	469	PHE	N-CA-C	6.38	119.41	109.52
1	E	687	GLU	N-CA-C	-6.38	103.01	111.24
1	C	740	GLN	CG-CD-NE2	6.38	125.96	116.40
1	D	740	GLN	CG-CD-NE2	6.37	125.96	116.40
1	C	687	GLU	N-CA-C	-6.37	103.02	111.24
1	E	304	ALA	N-CA-C	-6.37	105.14	113.17
2	P	32	LEU	N-CA-C	-6.37	104.34	111.28
2	O	32	LEU	N-CA-C	-6.36	104.35	111.28
1	E	469	PHE	N-CA-C	6.35	119.37	109.52
1	A	450	ASN	N-CA-C	-6.35	100.09	109.81
2	S	32	LEU	N-CA-C	-6.33	104.38	111.28
1	C	450	ASN	N-CA-C	-6.32	100.14	109.81
1	F	576	ASN	N-CA-C	6.32	121.14	112.04
1	D	146	LYS	O-C-N	-6.31	114.19	122.59
1	E	450	ASN	N-CA-C	-6.30	100.16	109.81
1	C	81	GLN	N-CA-C	-6.28	104.68	112.72
1	A	524	GLU	N-CA-C	-6.28	103.96	111.69
1	D	469	PHE	N-CA-C	6.28	119.26	109.52
1	C	524	GLU	N-CA-C	-6.27	103.98	111.69
1	D	687	GLU	N-CA-C	-6.25	103.17	111.24
1	A	687	GLU	N-CA-C	-6.25	103.18	111.24
1	D	304	ALA	N-CA-C	-6.25	105.30	113.17
1	D	66	LEU	N-CA-C	6.25	117.75	111.07
2	Q	32	LEU	N-CA-C	-6.24	104.48	111.28
1	D	190	PRO	CA-C-N	-6.23	113.37	122.65
1	D	190	PRO	C-N-CA	-6.23	113.37	122.65
1	B	687	GLU	N-CA-C	-6.23	103.20	111.24
1	B	628	PHE	N-CA-C	6.22	119.54	109.40
1	A	66	LEU	N-CA-C	6.22	117.72	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	524	GLU	N-CA-C	-6.20	104.06	111.69
2	S	24	ASP	N-CA-CB	-6.20	100.95	110.13
1	C	304	ALA	N-CA-C	-6.20	105.36	113.17
1	F	450	ASN	N-CA-C	-6.20	100.33	109.81
2	O	24	ASP	N-CA-CB	-6.20	100.96	110.13
2	P	24	ASP	N-CA-CB	-6.19	100.97	110.13
1	D	657	ILE	N-CA-C	-6.18	102.22	108.96
1	B	524	GLU	N-CA-C	-6.18	104.09	111.69
2	Q	24	ASP	N-CA-CB	-6.18	100.99	110.13
2	R	24	ASP	N-CA-CB	-6.17	101.00	110.13
1	B	450	ASN	N-CA-C	-6.17	100.37	109.81
1	F	304	ALA	N-CA-C	-6.17	105.40	113.17
1	C	628	PHE	N-CA-C	6.17	119.45	109.40
1	D	81	GLN	N-CA-C	-6.16	104.84	112.72
1	A	268	MET	N-CA-C	-6.15	103.89	111.33
1	B	657	ILE	N-CA-C	-6.15	102.25	108.96
1	D	628	PHE	N-CA-C	6.15	119.42	109.40
2	T	24	ASP	N-CA-CB	-6.14	101.04	110.13
1	F	687	GLU	N-CA-C	-6.14	103.32	111.24
1	A	628	PHE	N-CA-C	6.14	119.40	109.40
1	F	524	GLU	N-CA-C	-6.14	104.14	111.69
1	E	291	ASP	N-CA-C	-6.12	100.33	109.15
1	B	416	ASN	N-CA-C	-6.11	105.31	112.89
1	B	576	ASN	N-CA-C	6.11	120.84	112.04
1	F	657	ILE	N-CA-C	-6.11	102.30	108.96
1	E	753	LYS	N-CA-C	-6.10	104.57	112.68
1	E	268	MET	N-CA-C	-6.10	103.95	111.33
1	D	416	ASN	N-CA-C	-6.09	105.33	112.89
1	C	146	LYS	O-C-N	-6.09	114.50	122.59
1	F	753	LYS	N-CA-C	-6.08	104.59	112.68
1	C	416	ASN	N-CA-C	-6.07	105.36	112.89
1	C	576	ASN	N-CA-C	6.07	120.78	112.04
1	C	291	ASP	N-CA-C	-6.05	100.43	109.15
1	E	81	GLN	N-CA-C	-6.03	105.00	112.72
2	R	7	GLU	N-CA-C	-6.03	104.04	111.33
1	A	576	ASN	N-CA-C	6.02	120.71	112.04
1	F	628	PHE	N-CA-C	6.02	119.35	109.72
1	F	291	ASP	N-CA-C	-6.02	100.48	109.15
1	B	81	GLN	N-CA-C	-6.01	105.02	112.72
1	A	643	ILE	CB-CA-C	6.01	121.14	111.29
1	B	244	ALA	N-CA-C	-6.00	104.08	111.40
1	C	753	LYS	N-CA-C	-6.00	104.70	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	268	MET	N-CA-C	-6.00	104.07	111.33
1	B	133	GLU	CA-C-N	-6.00	115.30	122.44
1	B	133	GLU	C-N-CA	-6.00	115.30	122.44
1	A	416	ASN	N-CA-C	-6.00	105.46	112.89
1	C	657	ILE	N-CA-C	-5.99	102.43	108.96
1	E	576	ASN	N-CA-C	5.99	120.66	112.04
1	A	133	GLU	CA-C-N	-5.98	115.32	122.44
1	A	133	GLU	C-N-CA	-5.98	115.32	122.44
1	C	133	GLU	CA-C-N	-5.98	115.32	122.44
1	C	133	GLU	C-N-CA	-5.98	115.32	122.44
1	D	576	ASN	N-CA-C	5.98	120.65	112.04
1	E	133	GLU	CA-C-N	-5.98	115.32	122.44
1	E	133	GLU	C-N-CA	-5.98	115.32	122.44
2	S	7	GLU	N-CA-C	-5.98	104.09	111.33
1	F	133	GLU	CA-C-N	-5.97	115.33	122.44
1	F	133	GLU	C-N-CA	-5.97	115.33	122.44
1	E	432	TYR	CA-C-N	-5.96	110.15	121.54
1	E	432	TYR	C-N-CA	-5.96	110.15	121.54
1	A	657	ILE	N-CA-C	-5.96	102.47	108.96
1	E	657	ILE	N-CA-C	-5.95	102.48	108.96
1	E	416	ASN	N-CA-C	-5.94	105.53	112.89
1	D	133	GLU	CA-C-N	-5.94	115.37	122.44
1	D	133	GLU	C-N-CA	-5.94	115.37	122.44
1	A	291	ASP	N-CA-C	-5.93	100.61	109.15
1	F	416	ASN	N-CA-C	-5.93	105.53	112.89
2	Q	7	GLU	N-CA-C	-5.93	104.15	111.33
2	T	7	GLU	N-CA-C	-5.93	104.16	111.33
1	B	432	TYR	CA-C-N	-5.92	110.22	121.54
1	B	432	TYR	C-N-CA	-5.92	110.22	121.54
1	D	268	MET	N-CA-C	-5.92	104.17	111.33
1	F	81	GLN	N-CA-C	-5.92	105.14	112.72
1	F	66	LEU	N-CA-C	5.91	117.39	111.07
1	C	225	ILE	N-CA-C	5.89	117.07	108.58
2	O	7	GLU	N-CA-C	-5.89	104.20	111.33
1	B	611	THR	N-CA-C	-5.89	104.77	111.07
2	O	16	PHE	N-CA-C	-5.88	104.50	111.03
2	P	7	GLU	N-CA-C	-5.86	104.24	111.33
2	Q	16	PHE	N-CA-C	-5.86	104.53	111.03
2	S	109	MET	N-CA-C	-5.86	104.90	111.28
1	C	268	MET	N-CA-C	-5.84	104.26	111.33
2	T	16	PHE	N-CA-C	-5.84	104.55	111.03
1	D	291	ASP	N-CA-C	-5.83	100.75	109.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	268	MET	N-CA-C	-5.83	104.28	111.33
1	E	159	TYR	N-CA-C	5.82	120.12	113.19
1	D	159	TYR	N-CA-C	5.82	120.12	113.19
1	B	159	TYR	N-CA-C	5.82	120.11	113.19
1	A	159	TYR	N-CA-C	5.80	120.10	113.19
1	A	432	TYR	CA-C-N	-5.80	110.46	121.54
1	A	432	TYR	C-N-CA	-5.80	110.46	121.54
1	F	190	PRO	N-CA-C	-5.80	100.52	112.47
1	C	159	TYR	N-CA-C	5.79	120.08	113.19
1	F	432	TYR	CA-C-N	-5.78	110.50	121.54
1	F	432	TYR	C-N-CA	-5.78	110.50	121.54
1	E	225	ILE	N-CA-C	5.77	116.89	108.58
2	S	16	PHE	N-CA-C	-5.77	104.62	111.03
1	F	159	TYR	N-CA-C	5.76	120.05	113.19
1	D	189	ASP	CA-C-N	-5.76	112.64	119.84
1	D	189	ASP	C-N-CA	-5.76	112.64	119.84
2	O	109	MET	N-CA-C	-5.75	105.01	111.28
1	B	96	ILE	N-CA-C	-5.75	105.48	111.58
2	R	16	PHE	N-CA-C	-5.74	104.66	111.03
1	A	611	THR	N-CA-C	-5.73	104.94	111.07
1	E	425	GLU	N-CA-C	5.73	116.85	108.14
1	C	611	THR	N-CA-C	-5.71	104.96	111.07
1	F	225	ILE	N-CA-C	5.70	116.78	108.58
1	D	225	ILE	N-CA-C	5.69	116.78	108.58
1	D	434	LEU	CA-C-N	-5.69	113.36	121.50
1	D	434	LEU	C-N-CA	-5.69	113.36	121.50
1	F	96	ILE	N-CA-C	-5.67	105.57	111.58
2	Q	105	LEU	N-CA-C	-5.67	104.79	110.97
1	A	753	LYS	N-CA-C	-5.67	105.14	112.68
1	B	171	TYR	N-CA-C	-5.67	106.21	113.01
1	F	425	GLU	N-CA-C	5.66	116.74	108.14
1	A	225	ILE	N-CA-C	5.65	116.71	108.58
1	B	425	GLU	N-CA-C	5.65	116.72	108.14
1	B	225	ILE	N-CA-C	5.64	116.70	108.58
1	C	96	ILE	N-CA-C	-5.63	105.61	111.58
1	A	425	GLU	N-CA-C	5.62	116.69	108.14
1	C	238	GLN	N-CA-C	-5.61	105.22	112.68
1	E	96	ILE	N-CA-C	-5.61	105.64	111.58
1	D	244	ALA	N-CA-C	-5.60	104.56	111.40
1	E	171	TYR	N-CA-C	-5.60	106.29	113.01
1	D	96	ILE	N-CA-C	-5.59	105.65	111.58
1	C	244	ALA	N-CA-C	-5.57	104.60	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	189	ASP	CA-C-N	-5.57	112.88	119.84
1	E	189	ASP	C-N-CA	-5.57	112.88	119.84
1	F	745	TYR	N-CA-C	-5.57	105.36	111.82
2	P	16	PHE	N-CA-C	-5.56	104.86	111.03
1	F	611	THR	N-CA-C	-5.56	105.12	111.07
1	C	189	ASP	CA-C-N	-5.56	112.89	119.84
1	C	189	ASP	C-N-CA	-5.56	112.89	119.84
2	Q	109	MET	N-CA-C	-5.55	105.23	111.28
1	C	539	GLU	N-CA-C	5.54	118.27	110.23
1	F	238	GLN	N-CA-C	-5.54	105.31	112.68
2	T	109	MET	N-CA-C	-5.53	105.25	111.28
1	C	643	ILE	CB-CA-C	5.53	120.36	111.29
1	E	697	ILE	N-CA-C	-5.53	105.14	110.72
2	S	61	GLY	N-CA-C	-5.53	106.88	115.67
1	D	611	THR	N-CA-C	-5.52	105.16	111.07
1	D	135	VAL	N-CA-C	5.50	120.77	108.88
1	F	507	GLN	N-CA-C	-5.50	106.93	113.97
1	E	611	THR	N-CA-C	-5.50	105.19	111.07
1	E	135	VAL	N-CA-C	5.50	120.75	108.88
2	P	109	MET	N-CA-C	-5.50	105.29	111.28
1	B	135	VAL	N-CA-C	5.49	120.74	108.88
1	E	539	GLU	N-CA-C	5.49	118.19	110.23
1	F	135	VAL	N-CA-C	5.49	120.73	108.88
1	C	171	TYR	N-CA-C	-5.48	106.43	113.01
1	F	636	ALA	CA-C-N	5.48	126.69	119.84
1	F	636	ALA	C-N-CA	5.48	126.69	119.84
1	C	507	GLN	N-CA-C	-5.48	106.95	113.97
2	R	109	MET	N-CA-C	-5.48	105.31	111.28
1	D	507	GLN	N-CA-C	-5.47	106.97	113.97
1	A	238	GLN	N-CA-C	-5.47	105.41	112.68
1	B	608	TRP	N-CA-C	-5.47	105.48	111.82
1	A	135	VAL	N-CA-C	5.47	120.69	108.88
1	F	171	TYR	N-CA-C	-5.47	106.45	113.01
1	B	636	ALA	CA-C-N	5.46	126.67	119.84
1	B	636	ALA	C-N-CA	5.46	126.67	119.84
1	F	244	ALA	N-CA-C	-5.46	104.74	111.40
2	Q	61	GLY	N-CA-C	-5.46	107.00	115.67
2	R	61	GLY	N-CA-C	-5.45	107.00	115.67
2	P	105	LEU	N-CA-C	-5.45	105.03	110.97
1	B	238	GLN	N-CA-C	-5.45	105.44	112.68
2	T	61	GLY	N-CA-C	-5.44	107.02	115.67
1	E	238	GLN	N-CA-C	-5.44	105.44	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	171	TYR	N-CA-C	-5.43	106.49	113.01
1	D	608	TRP	N-CA-C	-5.43	105.52	111.82
2	R	105	LEU	N-CA-C	-5.42	105.06	110.97
1	E	507	GLN	N-CA-C	-5.42	107.03	113.97
1	A	488	LEU	N-CA-C	5.42	118.56	109.95
1	A	244	ALA	N-CA-C	-5.41	104.80	111.40
1	C	135	VAL	N-CA-C	5.41	120.56	108.88
1	C	549	LEU	N-CA-C	5.41	116.36	108.14
1	E	643	ILE	CB-CA-C	5.40	120.15	111.29
1	D	238	GLN	N-CA-C	-5.40	105.50	112.68
1	A	539	GLU	N-CA-C	5.39	118.14	110.10
1	D	425	GLU	N-CA-C	5.39	116.73	108.42
1	E	86	LEU	N-CA-C	5.39	117.02	111.03
1	B	546	LYS	N-CA-C	5.39	120.05	112.72
1	B	507	GLN	N-CA-C	-5.39	107.08	113.97
1	B	745	TYR	N-CA-C	-5.38	105.58	111.82
1	E	745	TYR	N-CA-C	-5.38	105.57	111.82
1	F	539	GLU	N-CA-C	5.38	118.04	110.23
2	P	94	LYS	N-CA-C	5.38	119.33	112.34
1	B	539	GLU	N-CA-C	5.38	118.03	110.23
1	E	244	ALA	N-CA-C	-5.37	104.84	111.40
2	T	46	ALA	N-CA-C	-5.37	106.41	113.12
2	R	46	ALA	N-CA-C	-5.37	106.41	113.12
1	A	96	ILE	N-CA-C	-5.37	105.89	111.58
2	O	61	GLY	N-CA-C	-5.37	107.14	115.67
1	D	539	GLU	N-CA-C	5.36	118.01	110.23
2	P	61	GLY	N-CA-C	-5.36	107.15	115.67
1	A	745	TYR	N-CA-C	-5.36	105.61	111.82
2	O	105	LEU	N-CA-C	-5.34	105.14	110.97
1	C	636	ALA	CA-C-N	5.34	126.52	119.84
1	C	636	ALA	C-N-CA	5.34	126.52	119.84
1	A	507	GLN	N-CA-C	-5.34	107.14	113.97
1	C	425	GLU	N-CA-C	5.33	116.63	108.42
1	E	384	ASN	N-CA-C	-5.33	105.37	111.07
1	E	549	LEU	N-CA-C	5.33	116.38	108.60
1	A	384	ASN	N-CA-C	-5.33	105.37	111.07
1	F	546	LYS	N-CA-C	5.33	119.96	112.72
1	E	608	TRP	N-CA-C	-5.32	105.64	111.82
2	O	46	ALA	N-CA-C	-5.32	106.47	113.12
2	T	105	LEU	N-CA-C	-5.32	105.17	110.97
1	D	745	TYR	N-CA-C	-5.32	105.65	111.82
2	P	46	ALA	N-CA-C	-5.31	106.48	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	171	TYR	N-CA-C	-5.31	106.64	113.01
1	C	546	LYS	N-CA-C	5.29	119.92	112.72
1	D	132	GLY	N-CA-C	-5.29	104.51	112.60
1	E	132	GLY	N-CA-C	-5.28	104.52	112.60
1	E	636	ALA	CA-C-N	5.28	126.44	119.84
1	E	636	ALA	C-N-CA	5.28	126.44	119.84
1	A	132	GLY	N-CA-C	-5.28	104.53	112.60
1	C	132	GLY	N-CA-C	-5.28	104.53	112.60
1	C	745	TYR	N-CA-C	-5.28	105.70	111.82
2	S	94	LYS	N-CA-C	5.28	119.20	112.34
1	B	132	GLY	N-CA-C	-5.27	104.53	112.60
2	Q	46	ALA	N-CA-C	-5.27	106.53	113.12
1	B	697	ILE	N-CA-C	-5.27	105.40	110.72
1	F	384	ASN	N-CA-C	-5.27	105.44	111.07
1	C	434	LEU	CA-C-N	-5.26	113.98	121.50
1	C	434	LEU	C-N-CA	-5.26	113.98	121.50
1	F	132	GLY	N-CA-C	-5.26	104.56	112.60
1	D	432	TYR	CA-C-N	-5.25	111.52	121.54
1	D	432	TYR	C-N-CA	-5.25	111.52	121.54
2	S	46	ALA	N-CA-C	-5.24	106.58	113.12
1	D	546	LYS	N-CA-C	5.23	119.84	112.72
1	A	608	TRP	N-CA-C	-5.23	105.75	111.82
1	A	689	ALA	N-CA-C	-5.23	104.84	111.11
2	R	23	GLY	N-CA-C	5.22	125.55	113.18
1	B	291	ASP	N-CA-C	-5.22	100.58	108.67
2	S	23	GLY	N-CA-C	5.21	125.52	113.18
1	D	636	ALA	CA-C-N	5.20	126.34	119.84
1	D	636	ALA	C-N-CA	5.20	126.34	119.84
1	E	656	THR	N-CA-C	5.20	116.88	108.34
2	O	94	LYS	N-CA-C	5.20	119.11	112.34
1	A	636	ALA	CA-C-N	5.20	126.34	119.84
1	A	636	ALA	C-N-CA	5.20	126.34	119.84
1	E	218	LEU	N-CA-C	5.19	116.66	109.54
1	B	218	LEU	N-CA-C	5.19	116.65	109.54
1	C	693	SER	N-CA-C	5.18	117.83	111.82
1	E	146	LYS	N-CA-C	5.17	121.82	110.80
1	F	488	LEU	N-CA-C	5.17	118.18	109.95
1	F	697	ILE	N-CA-C	-5.17	105.50	110.72
1	C	146	LYS	N-CA-C	5.16	121.79	110.80
2	R	22	ASP	CB-CA-C	5.16	119.55	110.36
1	B	549	LEU	N-CA-C	5.16	116.13	108.60
1	D	218	LEU	N-CA-C	5.16	116.61	109.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	549	LEU	N-CA-C	5.16	116.13	108.60
2	O	23	GLY	N-CA-C	5.15	125.39	113.18
1	E	488	LEU	N-CA-C	5.15	118.13	109.95
1	D	549	LEU	N-CA-C	5.14	116.11	108.60
1	A	549	LEU	N-CA-C	5.14	116.10	108.60
2	S	22	ASP	CB-CA-C	5.14	119.50	110.36
1	C	432	TYR	CA-C-N	-5.13	111.73	121.54
1	C	432	TYR	C-N-CA	-5.13	111.73	121.54
1	F	689	ALA	N-CA-C	-5.13	104.95	111.11
2	P	23	GLY	N-CA-C	5.13	125.34	113.18
1	A	697	ILE	N-CA-C	-5.13	105.54	110.72
1	A	146	LYS	N-CA-C	5.13	121.72	110.80
1	E	105	TYR	N-CA-C	5.12	116.87	108.52
2	Q	94	LYS	N-CA-C	5.12	118.99	112.34
1	C	318	ILE	N-CA-C	5.11	115.34	110.53
1	C	384	ASN	N-CA-C	-5.11	105.40	110.97
1	B	146	LYS	O-C-N	-5.11	115.80	122.59
1	C	488	LEU	N-CA-C	5.11	118.07	109.95
1	C	697	ILE	N-CA-C	-5.11	105.56	110.72
2	P	22	ASP	CB-CA-C	5.11	119.45	110.36
1	D	270	LYS	N-CA-C	-5.10	105.90	111.82
1	B	146	LYS	N-CA-C	5.10	121.67	110.80
1	C	105	TYR	N-CA-C	5.10	116.83	108.52
2	S	105	LEU	N-CA-C	-5.09	105.42	110.97
2	T	94	LYS	N-CA-C	5.09	118.96	112.34
1	C	552	TRP	N-CA-C	-5.09	105.81	111.36
1	D	552	TRP	N-CA-C	-5.09	105.81	111.36
1	C	227	ILE	CA-C-N	-5.09	112.03	120.68
1	C	227	ILE	C-N-CA	-5.09	112.03	120.68
1	A	656	THR	N-CA-C	5.08	116.67	108.34
1	C	261	ALA	N-CA-C	-5.08	101.91	109.42
1	C	656	THR	N-CA-C	5.08	116.67	108.34
2	R	94	LYS	N-CA-C	5.08	118.94	112.34
1	B	261	ALA	N-CA-C	-5.07	101.91	109.42
1	F	146	LYS	N-CA-C	5.07	121.61	110.80
1	D	565	LYS	N-CA-C	-5.07	107.04	113.43
1	B	384	ASN	N-CA-C	-5.07	105.65	111.07
1	C	608	TRP	N-CA-C	-5.07	105.94	111.82
1	A	261	ALA	N-CA-C	-5.07	101.92	109.42
1	D	753	LYS	N-CA-C	-5.07	104.81	111.96
1	E	261	ALA	N-CA-C	-5.06	101.93	109.42
1	D	261	ALA	N-CA-C	-5.06	101.94	109.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	643	ILE	CB-CA-C	5.05	119.58	111.29
1	A	105	TYR	N-CA-C	5.05	116.75	108.52
1	A	218	LEU	N-CA-C	5.05	116.46	109.54
1	D	384	ASN	N-CA-C	-5.05	105.67	111.07
1	F	261	ALA	N-CA-C	-5.04	101.95	109.42
2	O	22	ASP	CB-CA-C	5.04	119.33	110.36
1	B	190	PRO	N-CA-C	-5.03	102.10	112.47
1	B	318	ILE	N-CA-C	5.03	115.26	110.53
1	B	753	LYS	N-CA-C	-5.03	104.87	111.96
1	A	318	ILE	N-CA-C	5.02	115.25	110.53
2	T	13	LYS	N-CA-C	-5.02	103.26	111.04
1	D	488	LEU	N-CA-C	5.01	117.92	109.95
1	D	693	SER	N-CA-C	5.01	117.64	111.82
1	E	318	ILE	N-CA-C	5.01	115.24	110.53
1	E	565	LYS	N-CA-C	-5.01	107.11	113.43
2	T	22	ASP	CB-CA-C	5.01	119.28	110.36
1	B	270	LYS	N-CA-C	-5.01	106.01	111.82
1	A	189	ASP	CA-C-N	-5.01	113.58	119.84
1	A	189	ASP	C-N-CA	-5.01	113.58	119.84
1	A	190	PRO	N-CA-C	-5.00	102.16	112.47

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5992	0	6010	938	0
1	B	5992	0	6010	934	0
1	C	5992	0	6010	918	0
1	D	5992	0	6010	935	0
1	E	5992	0	6010	924	0
1	F	5992	0	6010	923	0
2	O	1146	0	1071	211	0
2	P	1146	0	1071	209	0
2	Q	1146	0	1071	205	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	R	1146	0	1071	212	0
2	S	1146	0	1071	212	0
2	T	1146	0	1071	204	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
4	O	2	0	0	0	0
4	P	2	0	0	0	0
4	Q	2	0	0	0	0
4	R	2	0	0	0	0
4	S	2	0	0	0	0
4	T	2	0	0	0	0
All	All	42846	0	42486	6630	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 78.

All (6630) 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:A:183:SER:O	1:A:187:SER:CB	1.70	1.39
1:D:183:SER:O	1:D:187:SER:CB	1.70	1.38
1:F:183:SER:O	1:F:187:SER:CB	1.70	1.37
1:E:183:SER:O	1:E:187:SER:CB	1.70	1.36
1:B:183:SER:O	1:B:187:SER:CB	1.70	1.35
1:C:183:SER:O	1:C:187:SER:CB	1.70	1.35
2:P:48:LEU:HA	2:P:51:MET:HE2	1.20	1.18
1:B:120:LEU:O	1:B:120:LEU:HD13	1.43	1.18
1:F:183:SER:C	1:F:187:SER:HB2	1.68	1.18
1:A:550:SER:HB3	1:A:553:GLN:HG3	1.19	1.18
1:E:120:LEU:O	1:E:120:LEU:HD13	1.43	1.18
1:C:183:SER:C	1:C:187:SER:HB2	1.68	1.17
1:C:550:SER:HB3	1:C:553:GLN:HG3	1.19	1.17
1:E:183:SER:C	1:E:187:SER:HB2	1.68	1.17
1:F:550:SER:HB3	1:F:553:GLN:HG3	1.18	1.17
2:O:48:LEU:HA	2:O:51:MET:HE2	1.21	1.16
1:B:183:SER:C	1:B:187:SER:HB2	1.68	1.16
1:A:183:SER:C	1:A:187:SER:HB2	1.68	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:183:SER:C	1:D:187:SER:HB2	1.68	1.15
1:A:120:LEU:O	1:A:120:LEU:HD13	1.43	1.15
2:S:48:LEU:HA	2:S:51:MET:HE2	1.21	1.15
1:C:120:LEU:O	1:C:120:LEU:HD13	1.43	1.14
1:B:550:SER:HB3	1:B:553:GLN:HG3	1.18	1.14
1:D:550:SER:HB3	1:D:553:GLN:HG3	1.18	1.14
1:E:550:SER:HB3	1:E:553:GLN:HG3	1.20	1.14
2:R:48:LEU:HA	2:R:51:MET:HE2	1.21	1.14
1:F:120:LEU:O	1:F:120:LEU:HD13	1.43	1.14
1:D:765:THR:HA	1:D:769:SER:HB2	1.28	1.13
1:D:120:LEU:O	1:D:120:LEU:HD13	1.43	1.13
1:E:765:THR:HA	1:E:769:SER:HB2	1.28	1.12
1:A:765:THR:HA	1:A:769:SER:HB2	1.28	1.11
1:D:597:ASN:HD21	1:D:601:GLU:HB2	1.14	1.11
1:F:765:THR:HA	1:F:769:SER:HB2	1.29	1.10
1:C:765:THR:HA	1:C:769:SER:HB2	1.29	1.10
2:T:48:LEU:HA	2:T:51:MET:HE2	1.20	1.09
1:A:597:ASN:HD21	1:A:601:GLU:HB2	1.17	1.08
2:Q:48:LEU:HA	2:Q:51:MET:HE2	1.20	1.08
1:D:127:SER:O	1:D:133:GLU:OE2	1.71	1.08
1:E:127:SER:O	1:E:133:GLU:OE2	1.72	1.08
1:C:127:SER:O	1:C:133:GLU:OE2	1.71	1.08
1:B:765:THR:HA	1:B:769:SER:HB2	1.28	1.08
2:T:28:THR:HG23	2:T:31:GLU:HG2	1.35	1.08
1:B:597:ASN:HD21	1:B:601:GLU:HB2	1.18	1.08
1:F:127:SER:O	1:F:133:GLU:OE2	1.71	1.08
1:B:127:SER:O	1:B:133:GLU:OE2	1.72	1.07
1:A:127:SER:O	1:A:133:GLU:OE2	1.71	1.07
1:B:64:ASN:HD22	1:B:64:ASN:N	1.37	1.07
1:B:767:GLN:HG2	1:B:768:LYS:HG2	1.37	1.07
1:C:767:GLN:HG2	1:C:768:LYS:HG2	1.37	1.06
2:Q:28:THR:HG23	2:Q:31:GLU:HG2	1.37	1.06
1:A:767:GLN:HG2	1:A:768:LYS:HG2	1.37	1.06
2:R:28:THR:HG23	2:R:31:GLU:HG2	1.36	1.06
1:D:767:GLN:HG2	1:D:768:LYS:HG2	1.37	1.05
1:F:767:GLN:HG2	1:F:768:LYS:HG2	1.37	1.05
1:F:97:TYR:HE1	1:F:178:SER:HB2	1.19	1.05
1:F:529:VAL:HG21	2:T:109:MET:HE1	1.39	1.05
1:E:529:VAL:HG21	2:S:109:MET:HE1	1.39	1.04
1:E:597:ASN:HD21	1:E:601:GLU:HB2	1.18	1.04
1:E:767:GLN:HG2	1:E:768:LYS:HG2	1.37	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:28:THR:HG23	2:O:31:GLU:HG2	1.36	1.04
1:F:597:ASN:HD21	1:F:601:GLU:HB2	1.17	1.04
1:F:324:THR:HB	1:F:499:PRO:HA	1.39	1.04
1:B:529:VAL:HG21	2:P:109:MET:HE1	1.37	1.03
1:C:324:THR:HB	1:C:499:PRO:HA	1.40	1.03
1:C:597:ASN:HD21	1:C:601:GLU:HB2	1.18	1.03
1:E:324:THR:HB	1:E:499:PRO:HA	1.38	1.03
1:D:324:THR:HB	1:D:499:PRO:HA	1.38	1.03
1:E:432:TYR:C	1:E:433:TYR:O	1.93	1.03
2:S:28:THR:HG23	2:S:31:GLU:HG2	1.37	1.03
1:C:97:TYR:HE1	1:C:178:SER:HB2	1.21	1.02
2:P:28:THR:HG23	2:P:31:GLU:HG2	1.36	1.02
1:A:432:TYR:C	1:A:433:TYR:O	1.93	1.02
1:E:97:TYR:HE1	1:E:178:SER:HB2	1.21	1.02
1:D:183:SER:O	1:D:187:SER:HB2	0.83	1.01
1:D:432:TYR:C	1:D:433:TYR:O	1.94	1.01
1:F:408:LEU:H	1:F:408:LEU:HD12	1.25	1.01
1:A:183:SER:O	1:A:187:SER:HB2	0.83	1.01
1:B:324:THR:HB	1:B:499:PRO:HA	1.38	1.01
1:B:97:TYR:HE1	1:B:178:SER:HB2	1.21	1.00
1:E:183:SER:O	1:E:187:SER:HB2	0.83	1.00
1:F:183:SER:O	1:F:187:SER:HB2	0.83	1.00
1:B:432:TYR:C	1:B:433:TYR:O	1.93	1.00
1:C:183:SER:O	1:C:187:SER:HB2	0.83	1.00
1:D:115:LYS:HZ2	1:D:116:GLU:H	1.03	0.99
1:B:183:SER:O	1:B:187:SER:HB2	0.83	0.99
2:S:50:ASP:HA	2:S:53:ASN:HB3	1.44	0.99
1:E:408:LEU:HD12	1:E:408:LEU:H	1.26	0.99
1:A:324:THR:HB	1:A:499:PRO:HA	1.40	0.99
1:A:529:VAL:HG21	2:O:109:MET:HE1	1.41	0.99
1:C:529:VAL:HG21	2:Q:109:MET:HE1	1.41	0.99
1:A:97:TYR:HE1	1:A:178:SER:HB2	1.20	0.99
1:D:97:TYR:HE1	1:D:178:SER:HB2	1.22	0.99
1:C:432:TYR:C	1:C:433:TYR:O	1.94	0.98
1:D:408:LEU:H	1:D:408:LEU:HD12	1.27	0.98
1:A:408:LEU:H	1:A:408:LEU:HD12	1.27	0.98
1:C:115:LYS:HZ2	1:C:116:GLU:H	1.00	0.98
2:P:50:ASP:HA	2:P:53:ASN:HB3	1.44	0.98
1:F:678:VAL:HG22	1:F:745:TYR:HE2	1.27	0.98
1:C:408:LEU:H	1:C:408:LEU:HD12	1.28	0.97
1:F:115:LYS:HZ2	1:F:116:GLU:H	1.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:50:ASP:HA	2:T:53:ASN:HB3	1.45	0.97
1:B:408:LEU:HD12	1:B:408:LEU:H	1.28	0.97
1:A:89:ILE:HG22	1:A:93:VAL:HG11	1.47	0.97
1:B:89:ILE:HG22	1:B:93:VAL:HG11	1.46	0.97
1:D:107:THR:HG21	1:D:115:LYS:HE2	1.47	0.97
2:O:50:ASP:HA	2:O:53:ASN:HB3	1.45	0.97
1:D:529:VAL:HG21	2:R:109:MET:HE1	1.42	0.96
1:C:678:VAL:HG22	1:C:745:TYR:HE2	1.28	0.96
1:E:115:LYS:HZ2	1:E:116:GLU:H	1.01	0.96
1:F:90:PRO:HG2	1:F:93:VAL:HB	1.47	0.96
1:A:592:GLU:HB3	1:A:604:LEU:HD11	1.47	0.96
1:D:89:ILE:HG22	1:D:93:VAL:HG11	1.46	0.96
1:C:90:PRO:HG2	1:C:93:VAL:HB	1.46	0.96
2:Q:50:ASP:HA	2:Q:53:ASN:HB3	1.44	0.96
1:E:89:ILE:HG22	1:E:93:VAL:HG11	1.45	0.95
1:D:617:LYS:HZ2	1:D:618:ASN:HD21	1.00	0.95
1:D:678:VAL:HG22	1:D:745:TYR:HE2	1.29	0.95
1:C:89:ILE:HG22	1:C:93:VAL:HG11	1.45	0.95
1:C:107:THR:HG21	1:C:115:LYS:HE2	1.48	0.95
1:E:90:PRO:HG2	1:E:93:VAL:HB	1.47	0.95
2:R:50:ASP:HA	2:R:53:ASN:HB3	1.45	0.95
1:E:592:GLU:HB3	1:E:604:LEU:HD11	1.49	0.94
1:E:678:VAL:HG22	1:E:745:TYR:HE2	1.29	0.94
1:E:629:ASN:HD21	1:E:631:SER:HB2	1.32	0.94
1:F:432:TYR:C	1:F:433:TYR:O	1.93	0.94
1:B:90:PRO:HG2	1:B:93:VAL:HB	1.47	0.94
1:C:617:LYS:HZ2	1:C:618:ASN:HD21	1.03	0.94
1:E:617:LYS:HZ2	1:E:618:ASN:HD21	1.00	0.94
1:A:678:VAL:HG22	1:A:745:TYR:HE2	1.28	0.94
1:B:115:LYS:HZ2	1:B:116:GLU:H	1.00	0.94
1:B:186:LYS:HE3	1:B:234:LEU:HD12	1.49	0.94
1:D:133:GLU:HG3	1:D:133:GLU:O	1.68	0.93
1:F:89:ILE:HG22	1:F:93:VAL:HG11	1.45	0.93
1:B:354:SER:O	1:B:371:SER:HB2	1.68	0.93
1:F:441:VAL:HG22	1:F:461:LYS:HG2	1.51	0.93
1:F:133:GLU:O	1:F:133:GLU:HG3	1.68	0.93
1:D:592:GLU:HB3	1:D:604:LEU:HD11	1.49	0.93
1:F:592:GLU:HB3	1:F:604:LEU:HD11	1.49	0.93
1:F:617:LYS:HZ2	1:F:618:ASN:HD21	0.99	0.93
1:A:617:LYS:HZ2	1:A:618:ASN:HD21	1.05	0.93
1:B:592:GLU:HB3	1:B:604:LEU:HD11	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:354:SER:O	1:F:371:SER:HB2	1.68	0.93
1:A:90:PRO:HG2	1:A:93:VAL:HB	1.49	0.93
1:B:678:VAL:HG22	1:B:745:TYR:HE2	1.30	0.93
1:D:90:PRO:HG2	1:D:93:VAL:HB	1.48	0.93
1:E:441:VAL:HG22	1:E:461:LYS:HG2	1.51	0.93
1:F:186:LYS:HE3	1:F:234:LEU:HD12	1.50	0.93
2:P:24:ASP:HB2	2:P:26:THR:HG23	1.50	0.93
1:A:441:VAL:HG22	1:A:461:LYS:HG2	1.50	0.93
1:E:133:GLU:HG3	1:E:133:GLU:O	1.68	0.92
1:C:133:GLU:O	1:C:133:GLU:HG3	1.68	0.92
1:D:441:VAL:HG22	1:D:461:LYS:HG2	1.51	0.92
2:Q:24:ASP:HB2	2:Q:26:THR:HG23	1.50	0.92
1:A:115:LYS:HZ2	1:A:116:GLU:H	1.01	0.92
1:A:715:GLU:HA	1:A:718:ARG:CZ	2.00	0.92
2:S:24:ASP:HB2	2:S:26:THR:HG23	1.50	0.92
1:A:629:ASN:HD21	1:A:631:SER:HB2	1.32	0.92
1:B:715:GLU:HA	1:B:718:ARG:CZ	2.00	0.92
1:F:629:ASN:HD21	1:F:631:SER:HB2	1.34	0.92
1:B:441:VAL:HG22	1:B:461:LYS:HG2	1.50	0.92
1:D:667:LEU:HD13	1:D:678:VAL:HG21	1.51	0.92
1:E:715:GLU:HA	1:E:718:ARG:CZ	2.00	0.92
1:B:629:ASN:HD21	1:B:631:SER:HB2	1.34	0.92
1:D:715:GLU:HA	1:D:718:ARG:CZ	1.99	0.92
1:F:722:ILE:HG23	1:F:760:VAL:HG13	1.52	0.92
1:A:354:SER:O	1:A:371:SER:HB2	1.71	0.91
1:C:441:VAL:HG22	1:C:461:LYS:HG2	1.52	0.91
1:E:354:SER:O	1:E:371:SER:HB2	1.70	0.91
2:T:24:ASP:HB2	2:T:26:THR:HG23	1.50	0.91
1:A:186:LYS:HE3	1:A:234:LEU:HD12	1.50	0.91
1:B:133:GLU:HG3	1:B:133:GLU:O	1.68	0.91
1:C:592:GLU:HB3	1:C:604:LEU:HD11	1.51	0.91
1:D:90:PRO:O	1:D:93:VAL:HG12	1.70	0.91
1:E:186:LYS:HE3	1:E:234:LEU:HD12	1.50	0.91
1:A:617:LYS:NZ	1:A:618:ASN:HD21	1.67	0.91
1:B:550:SER:CB	1:B:553:GLN:HG3	2.01	0.91
1:E:581:GLN:NE2	1:E:629:ASN:H	1.69	0.91
1:C:617:LYS:NZ	1:C:618:ASN:HD21	1.68	0.91
1:F:617:LYS:NZ	1:F:618:ASN:HD21	1.68	0.91
1:D:354:SER:O	1:D:371:SER:HB2	1.70	0.91
1:A:133:GLU:HG3	1:A:133:GLU:O	1.68	0.91
1:D:617:LYS:NZ	1:D:618:ASN:HD21	1.67	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:629:ASN:HD21	1:D:631:SER:HB2	1.33	0.91
1:C:715:GLU:HA	1:C:718:ARG:CZ	2.00	0.90
1:F:715:GLU:HA	1:F:718:ARG:CZ	2.00	0.90
1:C:354:SER:O	1:C:371:SER:HB2	1.70	0.90
1:A:97:TYR:CE1	1:A:178:SER:HB2	2.06	0.90
1:A:581:GLN:NE2	1:A:629:ASN:H	1.69	0.90
1:A:722:ILE:HG23	1:A:760:VAL:HG13	1.52	0.90
1:F:107:THR:HG21	1:F:115:LYS:HE2	1.53	0.90
1:A:667:LEU:HD13	1:A:678:VAL:HG21	1.53	0.90
1:C:186:LYS:HE3	1:C:234:LEU:HD12	1.52	0.90
1:C:629:ASN:HD21	1:C:631:SER:HB2	1.35	0.90
1:D:550:SER:CB	1:D:553:GLN:HG3	2.01	0.90
1:F:140:ARG:HA	1:F:140:ARG:HE	1.36	0.90
2:R:24:ASP:HB2	2:R:26:THR:HG23	1.52	0.90
1:F:90:PRO:O	1:F:93:VAL:HG12	1.72	0.90
2:O:24:ASP:HB2	2:O:26:THR:HG23	1.50	0.90
1:F:581:GLN:NE2	1:F:629:ASN:H	1.69	0.90
1:A:107:THR:HG21	1:A:115:LYS:HE2	1.52	0.90
1:B:722:ILE:HG23	1:B:760:VAL:HG13	1.52	0.90
1:F:97:TYR:CE1	1:F:178:SER:HB2	2.05	0.90
1:B:617:LYS:HZ2	1:B:618:ASN:HD21	0.96	0.90
1:D:140:ARG:HA	1:D:140:ARG:HE	1.37	0.89
1:A:550:SER:CB	1:A:553:GLN:HG3	2.03	0.89
1:A:724:ARG:O	1:A:727:GLN:HB2	1.72	0.89
1:C:142:VAL:HG22	1:C:154:ILE:HD12	1.55	0.89
1:E:667:LEU:HD13	1:E:678:VAL:HG21	1.53	0.89
1:D:186:LYS:HE3	1:D:234:LEU:HD12	1.52	0.89
1:E:722:ILE:HG23	1:E:760:VAL:HG13	1.53	0.89
1:E:90:PRO:O	1:E:93:VAL:HG12	1.71	0.89
2:R:41:GLN:C	2:R:43:PRO:HD2	1.98	0.89
1:B:617:LYS:NZ	1:B:618:ASN:HD21	1.68	0.89
1:F:142:VAL:HG22	1:F:154:ILE:HD12	1.55	0.89
2:P:41:GLN:C	2:P:43:PRO:HD2	1.97	0.89
2:S:41:GLN:C	2:S:43:PRO:HD2	1.96	0.89
1:A:140:ARG:HA	1:A:140:ARG:HE	1.36	0.89
1:C:722:ILE:HG23	1:C:760:VAL:HG13	1.54	0.89
1:D:722:ILE:HG23	1:D:760:VAL:HG13	1.53	0.88
2:Q:41:GLN:C	2:Q:43:PRO:HD2	1.98	0.88
1:B:667:LEU:HD13	1:B:678:VAL:HG21	1.52	0.88
1:B:715:GLU:HG3	1:B:718:ARG:HH12	1.39	0.88
1:D:581:GLN:NE2	1:D:629:ASN:H	1.71	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:97:TYR:CE1	1:B:178:SER:HB2	2.07	0.88
1:E:140:ARG:HA	1:E:140:ARG:HE	1.37	0.88
1:E:617:LYS:NZ	1:E:618:ASN:HD21	1.70	0.88
2:T:41:GLN:C	2:T:43:PRO:HD2	1.98	0.88
1:C:550:SER:CB	1:C:553:GLN:HG3	2.02	0.88
1:B:64:ASN:N	1:B:64:ASN:ND2	2.12	0.88
1:C:140:ARG:HA	1:C:140:ARG:HE	1.38	0.88
1:D:97:TYR:CE1	1:D:178:SER:HB2	2.08	0.88
1:B:90:PRO:O	1:B:93:VAL:HG12	1.71	0.88
1:E:142:VAL:HG22	1:E:154:ILE:HD12	1.56	0.88
2:T:24:ASP:N	2:T:24:ASP:OD1	2.05	0.88
1:E:97:TYR:CE1	1:E:178:SER:HB2	2.07	0.88
1:A:214:PHE:HB3	1:A:218:LEU:HB3	1.56	0.88
1:E:107:THR:HG21	1:E:115:LYS:HE2	1.53	0.88
1:E:214:PHE:HB3	1:E:218:LEU:HB3	1.56	0.88
1:B:724:ARG:O	1:B:727:GLN:HB2	1.73	0.88
1:C:90:PRO:O	1:C:93:VAL:HG12	1.73	0.88
1:D:142:VAL:HG22	1:D:154:ILE:HD12	1.54	0.88
1:F:154:ILE:HG13	1:F:171:TYR:CZ	2.08	0.88
1:F:667:LEU:HD13	1:F:678:VAL:HG21	1.55	0.87
1:F:724:ARG:O	1:F:727:GLN:HB2	1.73	0.87
1:C:581:GLN:NE2	1:C:629:ASN:H	1.72	0.87
1:E:76:LEU:H	1:E:76:LEU:HD22	1.40	0.87
1:B:140:ARG:HA	1:B:140:ARG:HE	1.37	0.87
1:B:142:VAL:HG22	1:B:154:ILE:HD12	1.55	0.87
1:D:214:PHE:HB3	1:D:218:LEU:HB3	1.55	0.87
1:F:254:ARG:H	1:F:254:ARG:HD2	1.39	0.87
1:C:97:TYR:CE1	1:C:178:SER:HB2	2.08	0.87
1:D:550:SER:HB3	1:D:553:GLN:CG	2.04	0.87
1:A:142:VAL:HG22	1:A:154:ILE:HD12	1.56	0.87
1:C:667:LEU:HD13	1:C:678:VAL:HG21	1.55	0.87
1:B:76:LEU:H	1:B:76:LEU:HD22	1.40	0.87
1:D:254:ARG:H	1:D:254:ARG:HD2	1.39	0.87
1:A:715:GLU:HG3	1:A:718:ARG:HH12	1.39	0.87
1:B:581:GLN:NE2	1:B:629:ASN:H	1.72	0.87
2:O:24:ASP:N	2:O:24:ASP:OD1	2.05	0.87
1:A:720:ILE:HD11	1:A:724:ARG:NH2	1.90	0.87
1:B:214:PHE:HB3	1:B:218:LEU:HB3	1.57	0.86
1:E:550:SER:CB	1:E:553:GLN:HG3	2.02	0.86
1:A:499:PRO:HG2	1:A:504:ILE:HD11	1.56	0.86
1:A:615:ILE:HG23	1:A:619:ILE:HD12	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:TYR:HB2	1:B:498:ALA:HB3	1.58	0.86
1:B:499:PRO:HG2	1:B:504:ILE:HD11	1.56	0.86
1:B:550:SER:HB3	1:B:553:GLN:CG	2.04	0.86
1:D:724:ARG:O	1:D:727:GLN:HB2	1.76	0.86
1:F:550:SER:CB	1:F:553:GLN:HG3	2.01	0.86
1:F:462:ILE:HG12	1:F:463:THR:H	1.40	0.86
1:F:550:SER:HB3	1:F:553:GLN:CG	2.05	0.86
1:C:184:LYS:O	1:C:185:ASP:C	2.19	0.86
1:E:715:GLU:HG3	1:E:718:ARG:HH12	1.38	0.86
2:O:41:GLN:C	2:O:43:PRO:HD2	2.00	0.86
1:A:184:LYS:O	1:A:185:ASP:C	2.19	0.86
1:D:462:ILE:HG12	1:D:463:THR:H	1.39	0.86
1:D:499:PRO:HG2	1:D:504:ILE:HD11	1.56	0.86
1:A:462:ILE:HG12	1:A:463:THR:H	1.39	0.86
1:B:462:ILE:HG12	1:B:463:THR:H	1.41	0.86
1:E:254:ARG:H	1:E:254:ARG:HD2	1.39	0.86
1:E:695:LYS:HB2	2:S:18:LEU:HD22	1.55	0.86
1:A:140:ARG:HA	1:A:140:ARG:NE	1.89	0.86
1:A:254:ARG:H	1:A:254:ARG:HD2	1.38	0.86
1:B:107:THR:HG21	1:B:115:LYS:HE2	1.55	0.86
1:C:154:ILE:HG13	1:C:171:TYR:CZ	2.11	0.86
1:C:695:LYS:HB2	2:Q:18:LEU:HD22	1.57	0.86
1:F:499:PRO:HG2	1:F:504:ILE:HD11	1.57	0.86
2:S:24:ASP:OD1	2:S:24:ASP:N	2.05	0.86
1:A:90:PRO:O	1:A:93:VAL:HG12	1.76	0.86
1:C:499:PRO:HG2	1:C:504:ILE:HD11	1.58	0.86
1:C:715:GLU:HG3	1:C:718:ARG:HH12	1.38	0.86
1:C:140:ARG:HA	1:C:140:ARG:NE	1.90	0.85
1:C:764:LEU:C	1:C:766:HIS:H	1.83	0.85
1:F:76:LEU:HD22	1:F:76:LEU:H	1.40	0.85
1:F:140:ARG:HA	1:F:140:ARG:NE	1.89	0.85
1:A:550:SER:HB3	1:A:553:GLN:CG	2.05	0.85
1:B:140:ARG:HA	1:B:140:ARG:NE	1.90	0.85
1:C:214:PHE:HB3	1:C:218:LEU:HB3	1.55	0.85
1:E:326:ILE:HG22	1:E:328:PHE:CE1	2.11	0.85
1:A:154:ILE:HG13	1:A:171:TYR:CZ	2.11	0.85
1:F:184:LYS:O	1:F:185:ASP:C	2.19	0.85
1:C:254:ARG:H	1:C:254:ARG:HD2	1.40	0.85
1:D:720:ILE:HD11	1:D:724:ARG:NH2	1.92	0.85
1:E:184:LYS:O	1:E:185:ASP:C	2.19	0.85
1:E:615:ILE:HG23	1:E:619:ILE:HD12	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:TYR:HB2	1:A:498:ALA:HB3	1.59	0.85
1:C:720:ILE:HD11	1:C:724:ARG:NH2	1.92	0.85
1:D:140:ARG:HA	1:D:140:ARG:NE	1.90	0.85
1:D:184:LYS:O	1:D:185:ASP:C	2.19	0.85
1:E:550:SER:HB3	1:E:553:GLN:CG	2.05	0.85
1:D:615:ILE:HG23	1:D:619:ILE:HD12	1.57	0.85
1:E:288:VAL:HG23	1:E:289:GLU:H	1.40	0.85
2:T:28:THR:HG23	2:T:31:GLU:CG	2.06	0.85
1:F:715:GLU:HG3	1:F:718:ARG:HH12	1.38	0.84
1:F:295:VAL:C	1:F:296:LEU:HD23	2.02	0.84
1:D:325:TYR:HB2	1:D:498:ALA:HB3	1.59	0.84
1:E:479:LYS:HG2	1:E:488:LEU:HD21	1.59	0.84
2:O:28:THR:HG23	2:O:31:GLU:CG	2.06	0.84
1:A:295:VAL:C	1:A:296:LEU:HD23	2.03	0.84
1:B:184:LYS:O	1:B:185:ASP:C	2.19	0.84
1:D:154:ILE:HG13	1:D:171:TYR:CZ	2.12	0.84
2:R:28:THR:HG23	2:R:31:GLU:CG	2.06	0.84
1:C:724:ARG:O	1:C:727:GLN:HB2	1.77	0.84
2:S:28:THR:HG23	2:S:31:GLU:CG	2.07	0.84
1:B:326:ILE:HG22	1:B:328:PHE:CE1	2.13	0.84
1:E:325:TYR:HB2	1:E:498:ALA:HB3	1.59	0.84
1:F:214:PHE:HB3	1:F:218:LEU:HB3	1.58	0.84
1:F:764:LEU:C	1:F:766:HIS:H	1.85	0.84
1:D:288:VAL:HG23	1:D:289:GLU:H	1.40	0.84
1:E:462:ILE:HG12	1:E:463:THR:H	1.40	0.84
1:A:326:ILE:HG22	1:A:328:PHE:CE1	2.13	0.84
1:B:720:ILE:HD11	1:B:724:ARG:NH2	1.92	0.84
1:C:288:VAL:HG23	1:C:289:GLU:H	1.40	0.84
1:E:720:ILE:HD11	1:E:724:ARG:NH2	1.92	0.84
1:F:720:ILE:HD11	1:F:724:ARG:NH2	1.92	0.84
2:P:28:THR:HG23	2:P:31:GLU:CG	2.07	0.84
1:B:479:LYS:HG2	1:B:488:LEU:HD21	1.59	0.84
1:E:154:ILE:HG13	1:E:171:TYR:CZ	2.12	0.84
1:E:295:VAL:C	1:E:296:LEU:HD23	2.03	0.84
1:E:724:ARG:O	1:E:727:GLN:HB2	1.76	0.84
2:O:47:GLU:O	2:O:51:MET:HG3	1.78	0.84
2:P:47:GLU:O	2:P:51:MET:HG3	1.78	0.84
2:T:47:GLU:O	2:T:51:MET:HG3	1.78	0.84
1:B:154:ILE:HG13	1:B:171:TYR:CZ	2.11	0.83
1:C:671:ARG:NH1	1:C:677:GLY:HA3	1.93	0.83
1:F:615:ILE:HG23	1:F:619:ILE:HD12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:28:THR:HG23	2:Q:31:GLU:CG	2.07	0.83
1:D:715:GLU:HG3	1:D:718:ARG:HH12	1.40	0.83
1:E:140:ARG:HA	1:E:140:ARG:NE	1.91	0.83
1:F:326:ILE:HG22	1:F:328:PHE:CE1	2.13	0.83
2:Q:24:ASP:N	2:Q:24:ASP:OD1	2.05	0.83
1:B:615:ILE:HG23	1:B:619:ILE:HD12	1.58	0.83
1:E:499:PRO:HG2	1:E:504:ILE:HD11	1.57	0.83
1:F:678:VAL:HG22	1:F:745:TYR:CE2	2.13	0.83
1:A:76:LEU:HD22	1:A:76:LEU:H	1.41	0.83
1:B:695:LYS:HB2	2:P:18:LEU:HD22	1.59	0.83
1:C:325:TYR:HB2	1:C:498:ALA:HB3	1.59	0.83
1:D:372:LYS:HG3	1:D:373:LYS:H	1.42	0.83
1:F:254:ARG:HB3	1:F:254:ARG:HH11	1.43	0.83
1:C:550:SER:HB3	1:C:553:GLN:CG	2.06	0.83
1:F:671:ARG:NH1	1:F:677:GLY:HA3	1.93	0.83
1:B:657:ILE:HG13	1:B:756:ILE:HD13	1.60	0.83
1:E:165:GLN:NE2	1:E:252:ASP:HB3	1.93	0.83
1:F:288:VAL:HG23	1:F:289:GLU:H	1.41	0.83
1:A:671:ARG:NH1	1:A:677:GLY:HA3	1.94	0.83
1:B:254:ARG:H	1:B:254:ARG:HD2	1.41	0.83
1:B:288:VAL:HG23	1:B:289:GLU:H	1.42	0.83
1:F:479:LYS:HG2	1:F:488:LEU:HD21	1.60	0.83
2:R:47:GLU:O	2:R:51:MET:HG3	1.79	0.83
2:S:47:GLU:O	2:S:51:MET:HG3	1.79	0.83
1:A:479:LYS:HG2	1:A:488:LEU:HD21	1.59	0.83
1:A:695:LYS:HB2	2:O:18:LEU:HD22	1.60	0.83
1:E:607:ASN:HB3	1:E:609:GLU:OE2	1.79	0.83
1:E:671:ARG:NH1	1:E:677:GLY:HA3	1.94	0.83
1:C:295:VAL:C	1:C:296:LEU:HD23	2.03	0.82
1:C:355:SER:CB	1:C:371:SER:HA	2.09	0.82
1:F:355:SER:HB2	1:F:371:SER:HA	1.61	0.82
1:A:678:VAL:HG22	1:A:745:TYR:CE2	2.14	0.82
1:B:295:VAL:C	1:B:296:LEU:HD23	2.03	0.82
1:C:607:ASN:HB3	1:C:609:GLU:OE2	1.79	0.82
1:D:165:GLN:NE2	1:D:252:ASP:HB3	1.93	0.82
1:D:479:LYS:HG2	1:D:488:LEU:HD21	1.61	0.82
1:F:345:THR:HB	1:F:491:ASP:HB3	1.61	0.82
1:B:671:ARG:NH1	1:B:677:GLY:HA3	1.94	0.82
1:E:345:THR:HB	1:E:491:ASP:HB3	1.61	0.82
1:F:722:ILE:HG23	1:F:760:VAL:CG1	2.10	0.82
1:A:254:ARG:HB3	1:A:254:ARG:HH11	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:154:ILE:HG13	1:B:171:TYR:CE2	2.14	0.82
1:D:607:ASN:HB3	1:D:609:GLU:OE2	1.80	0.82
1:A:288:VAL:HG23	1:A:289:GLU:H	1.42	0.82
1:E:372:LYS:HG3	1:E:373:LYS:H	1.43	0.82
2:Q:47:GLU:O	2:Q:51:MET:HG3	1.79	0.82
1:B:764:LEU:C	1:B:766:HIS:H	1.86	0.82
1:C:197:LYS:HZ2	1:C:197:LYS:HB3	1.45	0.82
1:C:462:ILE:HG12	1:C:463:THR:H	1.41	0.82
1:C:678:VAL:HG22	1:C:745:TYR:CE2	2.14	0.82
1:D:678:VAL:HG22	1:D:745:TYR:CE2	2.14	0.82
1:F:154:ILE:HG13	1:F:171:TYR:CE2	2.14	0.82
1:D:326:ILE:HG22	1:D:328:PHE:CE1	2.13	0.82
1:E:355:SER:CB	1:E:371:SER:HA	2.10	0.82
1:A:345:THR:HB	1:A:491:ASP:HB3	1.61	0.82
1:A:581:GLN:HE21	1:A:629:ASN:H	1.26	0.82
1:A:607:ASN:HB3	1:A:609:GLU:OE2	1.79	0.82
1:C:76:LEU:HD22	1:C:76:LEU:H	1.44	0.82
2:P:100:ILE:HB	2:P:136:VAL:CG2	2.10	0.82
2:R:24:ASP:OD1	2:R:24:ASP:N	2.06	0.82
1:B:355:SER:HB2	1:B:371:SER:HA	1.62	0.82
1:E:678:VAL:HG22	1:E:745:TYR:CE2	2.15	0.82
1:A:154:ILE:HG13	1:A:171:TYR:CE2	2.15	0.81
1:A:324:THR:HB	1:A:499:PRO:CA	2.10	0.81
1:D:657:ILE:HG13	1:D:756:ILE:HD13	1.62	0.81
1:D:722:ILE:HG23	1:D:760:VAL:CG1	2.10	0.81
1:E:275:GLY:HA2	1:E:278:LYS:CD	2.10	0.81
1:E:722:ILE:HG23	1:E:760:VAL:CG1	2.09	0.81
1:A:355:SER:CB	1:A:371:SER:HA	2.11	0.81
1:D:324:THR:HB	1:D:499:PRO:CA	2.10	0.81
2:S:100:ILE:HB	2:S:136:VAL:CG2	2.10	0.81
1:A:372:LYS:HG3	1:A:373:LYS:H	1.45	0.81
1:A:722:ILE:HG23	1:A:760:VAL:CG1	2.10	0.81
1:B:324:THR:HB	1:B:499:PRO:CA	2.10	0.81
1:B:345:THR:HB	1:B:491:ASP:HB3	1.60	0.81
1:C:326:ILE:HG22	1:C:328:PHE:CE1	2.15	0.81
1:C:345:THR:HB	1:C:491:ASP:HB3	1.61	0.81
1:D:355:SER:CB	1:D:371:SER:HA	2.10	0.81
1:D:671:ARG:NH1	1:D:677:GLY:HA3	1.94	0.81
1:D:695:LYS:HB2	2:R:18:LEU:HD22	1.60	0.81
1:F:324:THR:CB	1:F:499:PRO:HA	2.10	0.81
2:O:100:ILE:HB	2:O:136:VAL:CG2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:479:LYS:HG2	1:C:488:LEU:HD21	1.62	0.81
1:F:325:TYR:HB2	1:F:498:ALA:HB3	1.61	0.81
2:R:100:ILE:HB	2:R:136:VAL:CG2	2.11	0.81
2:T:100:ILE:HB	2:T:136:VAL:CG2	2.09	0.81
1:A:355:SER:HB2	1:A:371:SER:HA	1.62	0.81
1:D:295:VAL:C	1:D:296:LEU:HD23	2.05	0.81
1:F:695:LYS:HB2	2:T:18:LEU:HD22	1.62	0.81
1:C:154:ILE:HG13	1:C:171:TYR:CE2	2.14	0.81
1:D:76:LEU:HD22	1:D:76:LEU:H	1.44	0.81
1:F:355:SER:CB	1:F:371:SER:HA	2.09	0.81
1:A:443:GLU:OE2	1:A:458:LYS:HG2	1.81	0.81
1:C:722:ILE:HG23	1:C:760:VAL:CG1	2.10	0.81
1:D:189:ASP:O	1:D:190:PRO:C	2.22	0.81
1:E:154:ILE:HG13	1:E:171:TYR:CE2	2.16	0.81
1:F:462:ILE:HG12	1:F:463:THR:N	1.93	0.81
2:P:24:ASP:OD1	2:P:24:ASP:N	2.05	0.81
1:B:372:LYS:HG3	1:B:373:LYS:H	1.45	0.81
1:B:607:ASN:HB3	1:B:609:GLU:OE2	1.79	0.81
1:C:275:GLY:HA2	1:C:278:LYS:CD	2.10	0.81
1:D:154:ILE:HG13	1:D:171:TYR:CE2	2.15	0.81
1:A:165:GLN:NE2	1:A:252:ASP:HB3	1.96	0.81
1:A:764:LEU:C	1:A:766:HIS:H	1.87	0.81
1:B:324:THR:CB	1:B:499:PRO:HA	2.10	0.81
1:C:355:SER:HB2	1:C:371:SER:HA	1.60	0.81
1:D:567:THR:HG23	1:D:568:GLY:N	1.96	0.81
1:E:355:SER:HB2	1:E:371:SER:HA	1.62	0.81
1:F:607:ASN:HB3	1:F:609:GLU:OE2	1.81	0.81
1:A:324:THR:CB	1:A:499:PRO:HA	2.11	0.81
1:A:462:ILE:HG12	1:A:463:THR:N	1.94	0.81
1:D:764:LEU:C	1:D:766:HIS:H	1.85	0.81
1:E:254:ARG:HB3	1:E:254:ARG:HH11	1.46	0.81
1:B:165:GLN:NE2	1:B:252:ASP:HB3	1.96	0.80
1:D:581:GLN:HE21	1:D:629:ASN:H	1.27	0.80
1:D:597:ASN:ND2	1:D:601:GLU:HB2	1.96	0.80
2:Q:100:ILE:HB	2:Q:136:VAL:CG2	2.10	0.80
1:D:275:GLY:HA2	1:D:278:LYS:CD	2.11	0.80
1:F:165:GLN:NE2	1:F:252:ASP:HB3	1.95	0.80
1:B:355:SER:CB	1:B:371:SER:HA	2.10	0.80
1:C:372:LYS:HG3	1:C:373:LYS:H	1.45	0.80
1:C:450:ASN:HD22	1:C:452:GLU:H	1.29	0.80
1:F:372:LYS:HG3	1:F:373:LYS:H	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:PHE:HA	1:B:195:LEU:HB3	1.63	0.80
1:C:615:ILE:HG23	1:C:619:ILE:HD12	1.61	0.80
1:D:345:THR:HB	1:D:491:ASP:HB3	1.61	0.80
1:F:184:LYS:HA	1:F:187:SER:HB3	1.63	0.80
1:A:409:ARG:NE	1:A:413:LEU:HD21	1.96	0.80
1:B:722:ILE:HG23	1:B:760:VAL:CG1	2.10	0.80
1:E:324:THR:HB	1:E:499:PRO:CA	2.10	0.80
1:E:581:GLN:HE21	1:E:629:ASN:H	1.26	0.80
1:F:324:THR:HB	1:F:499:PRO:CA	2.10	0.80
1:C:657:ILE:HG13	1:C:756:ILE:HD13	1.63	0.80
1:D:443:GLU:OE2	1:D:458:LYS:HG2	1.82	0.80
1:F:581:GLN:HE21	1:F:629:ASN:H	1.25	0.80
1:A:567:THR:HG23	1:A:568:GLY:N	1.97	0.80
1:B:450:ASN:HD22	1:B:452:GLU:H	1.30	0.80
1:B:462:ILE:HG12	1:B:463:THR:N	1.95	0.80
1:E:192:PHE:HA	1:E:195:LEU:HB3	1.64	0.80
1:F:450:ASN:HD22	1:F:452:GLU:H	1.30	0.80
1:C:120:LEU:O	1:C:120:LEU:CD1	2.28	0.80
1:C:324:THR:CB	1:C:499:PRO:HA	2.11	0.80
1:C:443:GLU:OE2	1:C:458:LYS:HG2	1.82	0.80
1:E:657:ILE:HG13	1:E:756:ILE:HD13	1.63	0.80
1:C:184:LYS:HA	1:C:187:SER:HB3	1.63	0.79
1:D:254:ARG:HB3	1:D:254:ARG:HH11	1.45	0.79
1:E:462:ILE:HG12	1:E:463:THR:N	1.95	0.79
2:Q:51:MET:HB3	2:Q:71:MET:HE2	1.64	0.79
1:A:472:ARG:HB3	1:A:472:ARG:HH11	1.47	0.79
1:B:189:ASP:O	1:B:191:GLU:N	2.16	0.79
1:B:275:GLY:HA2	1:B:278:LYS:CD	2.12	0.79
1:B:443:GLU:OE2	1:B:458:LYS:HG2	1.82	0.79
1:B:581:GLN:HE21	1:B:629:ASN:H	1.28	0.79
1:B:678:VAL:HG22	1:B:745:TYR:CE2	2.16	0.79
1:C:324:THR:HB	1:C:499:PRO:CA	2.11	0.79
2:P:51:MET:HB3	2:P:71:MET:HE2	1.63	0.79
2:P:79:THR:C	2:P:81:SER:H	1.90	0.79
1:A:275:GLY:HA2	1:A:278:LYS:CD	2.12	0.79
1:C:409:ARG:NE	1:C:413:LEU:HD21	1.97	0.79
2:O:79:THR:C	2:O:81:SER:H	1.89	0.79
1:D:120:LEU:O	1:D:120:LEU:CD1	2.28	0.79
1:E:184:LYS:HA	1:E:187:SER:HB3	1.63	0.79
1:C:165:GLN:NE2	1:C:252:ASP:HB3	1.96	0.79
1:E:360:VAL:HG21	1:E:365:PRO:HB3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:254:ARG:HB3	1:C:254:ARG:HH11	1.46	0.79
1:C:462:ILE:HG12	1:C:463:THR:N	1.95	0.79
1:C:567:THR:HG23	1:C:568:GLY:N	1.97	0.79
1:C:581:GLN:HE21	1:C:629:ASN:H	1.27	0.79
1:D:324:THR:CB	1:D:499:PRO:HA	2.11	0.79
1:E:764:LEU:C	1:E:766:HIS:H	1.88	0.79
1:B:567:THR:HG23	1:B:568:GLY:N	1.98	0.79
1:D:462:ILE:HG12	1:D:463:THR:N	1.94	0.79
1:D:597:ASN:HD21	1:D:601:GLU:CB	1.94	0.79
1:D:709:ASN:O	1:D:717:LYS:HE3	1.83	0.79
1:E:120:LEU:O	1:E:120:LEU:CD1	2.28	0.79
1:F:275:GLY:HA2	1:F:278:LYS:CD	2.12	0.79
1:F:597:ASN:HD21	1:F:601:GLU:CB	1.96	0.79
1:F:657:ILE:HG13	1:F:756:ILE:HD13	1.63	0.79
1:D:450:ASN:HD22	1:D:452:GLU:H	1.30	0.79
1:E:324:THR:CB	1:E:499:PRO:HA	2.10	0.79
1:F:360:VAL:HG21	1:F:365:PRO:HB3	1.64	0.79
1:A:308:VAL:HB	1:A:311:HIS:ND1	1.98	0.79
2:Q:77:LYS:O	2:Q:80:ASP:HB2	1.84	0.79
1:A:175:LYS:HB2	1:A:175:LYS:HZ2	1.46	0.78
1:A:657:ILE:HG13	1:A:756:ILE:HD13	1.64	0.78
1:F:443:GLU:OE2	1:F:458:LYS:HG2	1.82	0.78
1:B:184:LYS:HA	1:B:187:SER:HB3	1.63	0.78
1:E:658:PRO:HG3	1:E:752:LEU:HD21	1.65	0.78
2:O:77:LYS:O	2:O:80:ASP:HB2	1.84	0.78
1:B:254:ARG:HB3	1:B:254:ARG:HH11	1.48	0.78
1:E:214:PHE:CD1	1:E:218:LEU:HD23	2.19	0.78
1:E:443:GLU:OE2	1:E:458:LYS:HG2	1.83	0.78
1:D:192:PHE:HA	1:D:195:LEU:HB3	1.65	0.78
1:D:658:PRO:HG3	1:D:752:LEU:HD21	1.64	0.78
2:S:51:MET:HB3	2:S:71:MET:HE2	1.65	0.78
1:A:184:LYS:HA	1:A:187:SER:HB3	1.63	0.78
1:A:360:VAL:HG21	1:A:365:PRO:HB3	1.64	0.78
1:B:293:ILE:HD13	1:B:617:LYS:HD3	1.66	0.78
1:E:450:ASN:HD22	1:E:452:GLU:H	1.31	0.78
2:R:51:MET:HB3	2:R:71:MET:HE2	1.66	0.78
1:B:658:PRO:HG3	1:B:752:LEU:HD21	1.66	0.78
1:C:709:ASN:O	1:C:717:LYS:HE3	1.84	0.78
1:D:355:SER:HB2	1:D:371:SER:HA	1.63	0.78
1:F:192:PHE:HA	1:F:195:LEU:HB3	1.64	0.78
1:F:409:ARG:NE	1:F:413:LEU:HD21	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:308:VAL:HB	1:D:311:HIS:ND1	1.99	0.78
1:A:112:VAL:HG12	1:A:113:GLU:H	1.47	0.78
1:A:658:PRO:HG3	1:A:752:LEU:HD21	1.66	0.78
1:D:184:LYS:HA	1:D:187:SER:HB3	1.63	0.78
1:F:658:PRO:HG3	1:F:752:LEU:HD21	1.66	0.78
1:E:409:ARG:NE	1:E:413:LEU:HD21	1.99	0.78
2:P:77:LYS:O	2:P:80:ASP:HB2	1.84	0.78
1:B:639:ASN:HD22	1:B:639:ASN:H	1.31	0.77
1:B:765:THR:HG22	1:B:769:SER:OG	1.84	0.77
1:C:776:LEU:HD23	1:C:776:LEU:O	1.84	0.77
1:D:729:TYR:HB2	1:D:756:ILE:HG21	1.67	0.77
1:A:214:PHE:CD1	1:A:218:LEU:HD23	2.19	0.77
1:C:360:VAL:HG11	1:C:370:LEU:HD22	1.67	0.77
1:A:120:LEU:O	1:A:120:LEU:CD1	2.28	0.77
1:B:409:ARG:NE	1:B:413:LEU:HD21	2.00	0.77
1:C:192:PHE:HA	1:C:195:LEU:HB3	1.64	0.77
1:E:112:VAL:HG12	1:E:113:GLU:H	1.49	0.77
1:E:567:THR:HG23	1:E:568:GLY:N	1.96	0.77
1:A:450:ASN:HD22	1:A:452:GLU:H	1.31	0.77
1:D:214:PHE:CD1	1:D:218:LEU:HD23	2.20	0.77
1:F:197:LYS:HB3	1:F:197:LYS:HZ2	1.50	0.77
1:F:765:THR:HG22	1:F:769:SER:OG	1.84	0.77
2:S:77:LYS:O	2:S:80:ASP:HB2	1.84	0.77
1:C:308:VAL:HB	1:C:311:HIS:ND1	1.99	0.77
1:D:360:VAL:HG21	1:D:365:PRO:HB3	1.64	0.77
2:R:77:LYS:O	2:R:80:ASP:HB2	1.83	0.77
2:R:79:THR:C	2:R:81:SER:H	1.89	0.77
1:B:639:ASN:H	1:B:639:ASN:ND2	1.83	0.77
1:C:597:ASN:HD21	1:C:601:GLU:CB	1.97	0.77
1:F:308:VAL:HB	1:F:311:HIS:ND1	1.99	0.77
2:T:79:THR:C	2:T:81:SER:H	1.89	0.77
1:B:301:ALA:C	1:B:303:LYS:H	1.92	0.77
1:C:214:PHE:CD1	1:C:218:LEU:HD23	2.19	0.77
1:D:409:ARG:NE	1:D:413:LEU:HD21	1.98	0.77
1:E:153:ILE:O	1:E:154:ILE:HD13	1.84	0.77
1:E:765:THR:HG22	1:E:769:SER:OG	1.85	0.77
1:B:214:PHE:CD1	1:B:218:LEU:HD23	2.20	0.77
1:F:120:LEU:O	1:F:120:LEU:CD1	2.28	0.77
1:A:115:LYS:HG3	1:A:153:ILE:HG21	1.67	0.77
1:B:360:VAL:HG21	1:B:365:PRO:HB3	1.64	0.77
1:B:472:ARG:HB3	1:B:472:ARG:HH11	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:VAL:HG21	1:C:365:PRO:HB3	1.65	0.77
1:F:472:ARG:HB3	1:F:472:ARG:HH11	1.50	0.77
1:B:788:ASP:O	1:B:792:VAL:HG23	1.85	0.77
1:A:639:ASN:H	1:A:639:ASN:HD22	1.33	0.76
1:A:639:ASN:H	1:A:639:ASN:ND2	1.83	0.76
1:B:308:VAL:HB	1:B:311:HIS:ND1	1.99	0.76
1:B:617:LYS:HZ2	1:B:618:ASN:ND2	1.79	0.76
1:C:729:TYR:HB2	1:C:756:ILE:HG21	1.66	0.76
1:D:742:ALA:HB1	1:D:744:GLU:OE1	1.85	0.76
1:D:765:THR:HG22	1:D:769:SER:OG	1.85	0.76
1:F:165:GLN:HG2	1:F:251:PRO:HG2	1.68	0.76
1:F:639:ASN:ND2	1:F:639:ASN:H	1.84	0.76
2:S:79:THR:C	2:S:81:SER:H	1.89	0.76
2:T:77:LYS:O	2:T:80:ASP:HB2	1.84	0.76
1:A:293:ILE:HD13	1:A:617:LYS:HD3	1.65	0.76
1:C:293:ILE:HD13	1:C:617:LYS:HD3	1.65	0.76
1:B:112:VAL:HG12	1:B:113:GLU:H	1.50	0.76
1:D:184:LYS:HE3	1:D:191:GLU:HB2	1.67	0.76
1:F:112:VAL:HG12	1:F:113:GLU:H	1.49	0.76
1:A:192:PHE:HA	1:A:195:LEU:HB3	1.65	0.76
1:D:360:VAL:HG11	1:D:370:LEU:HD22	1.67	0.76
1:E:597:ASN:ND2	1:E:601:GLU:HB2	2.00	0.76
1:E:293:ILE:HD13	1:E:617:LYS:HD3	1.66	0.76
1:E:776:LEU:HD23	1:E:776:LEU:O	1.85	0.76
1:F:214:PHE:CD1	1:F:218:LEU:HD23	2.20	0.76
1:F:293:ILE:HD13	1:F:617:LYS:HD3	1.67	0.76
1:C:472:ARG:HB3	1:C:472:ARG:HH11	1.50	0.76
1:C:643:ILE:HG22	1:C:644:GLU:H	1.48	0.76
1:F:301:ALA:C	1:F:303:LYS:H	1.93	0.76
1:F:499:PRO:HD3	1:F:552:TRP:CH2	2.20	0.76
1:B:120:LEU:O	1:B:120:LEU:CD1	2.28	0.76
1:D:186:LYS:O	1:D:186:LYS:HG2	1.86	0.76
1:E:308:VAL:HB	1:E:311:HIS:ND1	1.99	0.76
1:E:709:ASN:O	1:E:717:LYS:HE3	1.85	0.76
1:F:567:THR:HG23	1:F:568:GLY:N	1.98	0.76
2:O:51:MET:HB3	2:O:71:MET:HE2	1.65	0.76
1:A:765:THR:HG22	1:A:769:SER:OG	1.86	0.76
1:C:333:LYS:H	1:C:333:LYS:HD2	1.51	0.76
1:C:658:PRO:HG3	1:C:752:LEU:HD21	1.67	0.76
1:D:639:ASN:H	1:D:639:ASN:HD22	1.34	0.76
1:E:333:LYS:H	1:E:333:LYS:HD2	1.51	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:186:LYS:O	1:C:186:LYS:HG2	1.86	0.76
1:D:589:LYS:HB2	1:D:643:ILE:HD13	1.68	0.76
1:E:499:PRO:HD3	1:E:552:TRP:CH2	2.21	0.76
1:F:357:TRP:HZ3	1:F:439:ASN:HB2	1.51	0.76
2:Q:102:ALA:HB2	2:Q:125:ILE:HG13	1.68	0.76
1:A:742:ALA:HB1	1:A:744:GLU:OE1	1.86	0.76
1:B:729:TYR:HB2	1:B:756:ILE:HG21	1.67	0.76
1:C:189:ASP:O	1:C:191:GLU:N	2.19	0.76
1:C:765:THR:HG22	1:C:769:SER:OG	1.85	0.76
2:S:100:ILE:HB	2:S:136:VAL:HG23	1.67	0.76
1:A:333:LYS:H	1:A:333:LYS:HD2	1.51	0.75
1:A:597:ASN:HD21	1:A:601:GLU:CB	1.97	0.75
1:A:709:ASN:O	1:A:717:LYS:HE3	1.86	0.75
1:C:788:ASP:O	1:C:792:VAL:HG23	1.86	0.75
1:D:175:LYS:HB2	1:D:175:LYS:HZ2	1.48	0.75
1:D:301:ALA:C	1:D:303:LYS:H	1.93	0.75
1:D:333:LYS:HD2	1:D:333:LYS:H	1.51	0.75
2:Q:79:THR:C	2:Q:81:SER:H	1.89	0.75
1:F:776:LEU:HD23	1:F:776:LEU:O	1.85	0.75
1:A:186:LYS:O	1:A:186:LYS:HG2	1.86	0.75
1:C:165:GLN:HG2	1:C:251:PRO:HG2	1.68	0.75
1:D:112:VAL:HG12	1:D:113:GLU:H	1.49	0.75
1:E:639:ASN:H	1:E:639:ASN:ND2	1.83	0.75
1:F:694:VAL:CG2	2:T:18:LEU:HD21	2.16	0.75
1:A:153:ILE:O	1:A:154:ILE:HD13	1.86	0.75
1:A:301:ALA:C	1:A:303:LYS:H	1.94	0.75
1:A:788:ASP:O	1:A:792:VAL:HG23	1.87	0.75
1:B:333:LYS:H	1:B:333:LYS:HD2	1.51	0.75
1:C:639:ASN:H	1:C:639:ASN:HD22	1.32	0.75
1:C:694:VAL:CG2	2:Q:18:LEU:HD21	2.17	0.75
2:P:100:ILE:HB	2:P:136:VAL:HG23	1.69	0.75
1:F:186:LYS:O	1:F:186:LYS:HG2	1.86	0.75
1:C:112:VAL:HG12	1:C:113:GLU:H	1.49	0.75
1:D:293:ILE:HD13	1:D:617:LYS:HD3	1.66	0.75
1:C:115:LYS:HG3	1:C:153:ILE:HG21	1.69	0.75
1:B:597:ASN:HD21	1:B:601:GLU:CB	1.97	0.75
1:C:742:ALA:HB1	1:C:744:GLU:OE1	1.87	0.75
1:D:472:ARG:HB3	1:D:472:ARG:HH11	1.51	0.75
1:E:115:LYS:CB	1:E:118:GLN:HG2	2.17	0.75
1:F:184:LYS:HE3	1:F:191:GLU:HB2	1.69	0.75
1:F:716:LYS:O	1:F:720:ILE:HG22	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:100:ILE:HB	2:Q:136:VAL:HG23	1.67	0.75
2:R:102:ALA:HB2	2:R:125:ILE:HG13	1.68	0.75
1:B:579:THR:O	1:B:581:GLN:N	2.20	0.75
1:F:337:ASN:ND2	1:F:412:GLU:OE2	2.20	0.75
1:C:357:TRP:HZ3	1:C:439:ASN:HB2	1.52	0.74
1:D:115:LYS:HG3	1:D:153:ILE:HG21	1.69	0.74
1:E:357:TRP:HZ3	1:E:439:ASN:HB2	1.51	0.74
1:E:742:ALA:HB1	1:E:744:GLU:OE1	1.87	0.74
1:F:597:ASN:ND2	1:F:601:GLU:HB2	1.99	0.74
1:F:709:ASN:O	1:F:717:LYS:HE3	1.86	0.74
2:T:51:MET:HB3	2:T:71:MET:HE2	1.67	0.74
1:A:115:LYS:CB	1:A:118:GLN:HG2	2.16	0.74
1:A:337:ASN:ND2	1:A:412:GLU:OE2	2.20	0.74
1:C:115:LYS:CB	1:C:118:GLN:HG2	2.17	0.74
1:C:329:ARG:HD2	1:C:590:ASP:OD2	1.87	0.74
1:D:153:ILE:O	1:D:154:ILE:HD13	1.87	0.74
1:E:353:LYS:H	1:E:368:GLN:HE22	1.33	0.74
1:F:729:TYR:HB2	1:F:756:ILE:HG21	1.67	0.74
1:A:499:PRO:HD3	1:A:552:TRP:CH2	2.21	0.74
1:A:694:VAL:CG2	2:O:18:LEU:HD21	2.17	0.74
1:D:357:TRP:HZ3	1:D:439:ASN:HB2	1.51	0.74
1:D:499:PRO:HD3	1:D:552:TRP:CH2	2.23	0.74
1:D:776:LEU:O	1:D:776:LEU:HD23	1.87	0.74
1:E:301:ALA:C	1:E:303:LYS:H	1.94	0.74
1:F:333:LYS:H	1:F:333:LYS:HD2	1.51	0.74
1:B:115:LYS:HG3	1:B:153:ILE:HG21	1.69	0.74
1:C:499:PRO:HD3	1:C:552:TRP:CH2	2.22	0.74
1:D:788:ASP:O	1:D:792:VAL:HG23	1.86	0.74
1:E:694:VAL:CG2	2:S:18:LEU:HD21	2.17	0.74
1:E:729:TYR:HB2	1:E:756:ILE:HG21	1.68	0.74
1:F:579:THR:O	1:F:581:GLN:N	2.21	0.74
1:A:357:TRP:HZ3	1:A:439:ASN:HB2	1.52	0.74
1:A:729:TYR:HB2	1:A:756:ILE:HG21	1.69	0.74
1:D:639:ASN:H	1:D:639:ASN:ND2	1.84	0.74
1:E:579:THR:O	1:E:581:GLN:N	2.21	0.74
2:O:110:THR:HA	2:O:114:GLU:O	1.88	0.74
2:P:92:PHE:O	2:P:94:LYS:N	2.21	0.74
1:B:357:TRP:HZ3	1:B:439:ASN:HB2	1.51	0.74
1:C:134:LYS:O	1:C:135:VAL:HG12	1.88	0.74
1:D:337:ASN:ND2	1:D:412:GLU:OE2	2.20	0.74
1:D:446:ILE:HD11	1:D:451:ASN:HB3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:165:GLN:HG2	1:E:251:PRO:HG2	1.70	0.74
1:E:472:ARG:HB3	1:E:472:ARG:HH11	1.50	0.74
1:F:360:VAL:HG11	1:F:370:LEU:HD22	1.68	0.74
1:F:446:ILE:HD11	1:F:451:ASN:HB3	1.70	0.74
1:F:742:ALA:HB1	1:F:744:GLU:OE1	1.87	0.74
1:F:788:ASP:O	1:F:792:VAL:HG23	1.87	0.74
1:B:186:LYS:HG2	1:B:186:LYS:O	1.86	0.74
1:C:639:ASN:H	1:C:639:ASN:ND2	1.83	0.74
1:B:446:ILE:HD11	1:B:451:ASN:HB3	1.70	0.74
1:B:694:VAL:CG2	2:P:18:LEU:HD21	2.17	0.74
1:C:301:ALA:C	1:C:303:LYS:H	1.94	0.74
2:O:100:ILE:HB	2:O:136:VAL:HG23	1.69	0.74
1:B:478:ALA:HB1	1:B:486:LYS:O	1.88	0.74
1:D:401:ILE:HD13	1:D:485:LEU:O	1.88	0.74
1:E:597:ASN:HD21	1:E:601:GLU:CB	1.96	0.74
2:T:100:ILE:HB	2:T:136:VAL:HG23	1.69	0.74
1:B:360:VAL:HG11	1:B:370:LEU:HD22	1.68	0.74
1:E:639:ASN:H	1:E:639:ASN:HD22	1.33	0.74
1:F:153:ILE:O	1:F:154:ILE:HD13	1.86	0.74
1:A:401:ILE:HD13	1:A:485:LEU:O	1.88	0.73
1:B:499:PRO:HD3	1:B:552:TRP:CH2	2.23	0.73
1:C:597:ASN:ND2	1:C:601:GLU:HB2	2.00	0.73
1:D:512:GLU:O	1:D:516:VAL:HG23	1.88	0.73
1:E:360:VAL:HG11	1:E:370:LEU:HD22	1.68	0.73
1:E:401:ILE:HD13	1:E:485:LEU:O	1.87	0.73
2:R:100:ILE:HB	2:R:136:VAL:HG23	1.68	0.73
1:A:184:LYS:HE3	1:A:191:GLU:HB2	1.69	0.73
1:A:776:LEU:O	1:A:776:LEU:HD23	1.86	0.73
1:B:115:LYS:CB	1:B:118:GLN:HG2	2.18	0.73
1:D:115:LYS:CB	1:D:118:GLN:HG2	2.18	0.73
1:D:464:VAL:HG23	1:D:465:LEU:HD12	1.71	0.73
1:D:694:VAL:CG2	2:R:18:LEU:HD21	2.18	0.73
1:D:716:LYS:O	1:D:720:ILE:HG22	1.87	0.73
1:E:629:ASN:ND2	1:E:631:SER:HB2	2.03	0.73
2:R:110:THR:HA	2:R:114:GLU:O	1.88	0.73
1:A:360:VAL:HG11	1:A:370:LEU:HD22	1.68	0.73
1:A:446:ILE:HD11	1:A:451:ASN:HB3	1.70	0.73
1:B:709:ASN:O	1:B:717:LYS:HE3	1.87	0.73
1:E:512:GLU:O	1:E:516:VAL:HG23	1.88	0.73
2:S:92:PHE:O	2:S:94:LYS:N	2.21	0.73
1:A:510:GLN:O	1:A:514:ASP:HB2	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:115:LYS:HA	2:O:115:LYS:HZ3	1.53	0.73
2:O:115:LYS:HA	2:O:115:LYS:NZ	2.04	0.73
1:E:142:VAL:HG22	1:E:154:ILE:HG23	1.70	0.73
1:E:186:LYS:HG2	1:E:186:LYS:O	1.86	0.73
1:E:446:ILE:HD11	1:E:451:ASN:HB3	1.71	0.73
1:F:115:LYS:NZ	1:F:116:GLU:H	1.85	0.73
2:S:48:LEU:O	2:S:52:ILE:HG22	1.88	0.73
1:C:337:ASN:ND2	1:C:412:GLU:OE2	2.21	0.73
1:B:353:LYS:H	1:B:368:GLN:HE22	1.34	0.73
1:B:742:ALA:HB1	1:B:744:GLU:OE1	1.88	0.73
1:C:464:VAL:HG23	1:C:465:LEU:HD12	1.71	0.73
1:F:353:LYS:H	1:F:368:GLN:HE22	1.35	0.73
1:A:165:GLN:HG2	1:A:251:PRO:HG2	1.70	0.73
1:B:302:LEU:HD22	1:B:602:PHE:CE1	2.24	0.73
1:B:337:ASN:ND2	1:B:412:GLU:OE2	2.21	0.73
1:B:776:LEU:O	1:B:776:LEU:HD23	1.87	0.73
1:D:302:LEU:HD22	1:D:602:PHE:CE1	2.24	0.73
1:E:329:ARG:HD2	1:E:590:ASP:OD2	1.88	0.73
1:E:788:ASP:O	1:E:792:VAL:HG23	1.87	0.73
2:T:115:LYS:HZ3	2:T:115:LYS:HA	1.52	0.73
1:B:165:GLN:HG2	1:B:251:PRO:HG2	1.71	0.73
1:D:142:VAL:HG22	1:D:154:ILE:HG23	1.71	0.73
1:D:329:ARG:HD2	1:D:590:ASP:OD2	1.89	0.73
1:D:615:ILE:HD12	1:D:645:TRP:HH2	1.54	0.73
1:F:199:LEU:C	1:F:201:ASP:H	1.96	0.73
2:Q:110:THR:HA	2:Q:114:GLU:O	1.88	0.73
1:A:611:THR:O	1:A:615:ILE:HG13	1.89	0.73
1:C:161:ILE:HG23	1:C:168:GLU:HB2	1.70	0.73
1:E:337:ASN:ND2	1:E:412:GLU:OE2	2.21	0.73
2:O:4:LEU:CB	2:O:8:GLN:HE21	2.02	0.73
2:T:102:ALA:HB2	2:T:125:ILE:HG13	1.71	0.73
1:E:115:LYS:HG3	1:E:153:ILE:HG21	1.69	0.72
1:C:446:ILE:HD11	1:C:451:ASN:HB3	1.71	0.72
1:D:161:ILE:HG23	1:D:168:GLU:HB2	1.69	0.72
1:F:115:LYS:CB	1:F:118:GLN:HG2	2.18	0.72
2:O:48:LEU:O	2:O:52:ILE:HG22	1.89	0.72
2:R:48:LEU:O	2:R:52:ILE:HG22	1.88	0.72
1:C:175:LYS:HZ2	1:C:175:LYS:HB2	1.53	0.72
1:C:302:LEU:HD22	1:C:602:PHE:CE1	2.23	0.72
1:E:617:LYS:HZ2	1:E:618:ASN:ND2	1.84	0.72
1:A:105:TYR:HE1	1:A:151:LYS:HZ2	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:512:GLU:O	1:B:516:VAL:HG23	1.90	0.72
1:C:615:ILE:HD12	1:C:645:TRP:HH2	1.55	0.72
1:D:165:GLN:HG2	1:D:251:PRO:HG2	1.71	0.72
1:A:515:LYS:NZ	1:A:515:LYS:HB3	2.03	0.72
1:B:105:TYR:HE1	1:B:151:LYS:HZ2	1.38	0.72
1:B:197:LYS:C	1:B:197:LYS:HZ3	1.96	0.72
1:B:297:LYS:HA	1:B:602:PHE:O	1.89	0.72
1:E:115:LYS:NZ	1:E:116:GLU:H	1.85	0.72
1:E:197:LYS:HZ2	1:E:197:LYS:HB3	1.55	0.72
2:P:102:ALA:HB2	2:P:125:ILE:HG13	1.71	0.72
2:R:115:LYS:NZ	2:R:115:LYS:HA	2.05	0.72
2:S:102:ALA:HB2	2:S:125:ILE:HG13	1.72	0.72
1:C:512:GLU:O	1:C:516:VAL:HG23	1.90	0.72
1:D:105:TYR:HE1	1:D:151:LYS:HZ2	1.36	0.72
1:D:197:LYS:C	1:D:197:LYS:HZ3	1.97	0.72
1:E:184:LYS:HE3	1:E:191:GLU:HB2	1.72	0.72
2:P:115:LYS:HZ3	2:P:115:LYS:HA	1.54	0.72
2:T:48:LEU:O	2:T:52:ILE:HG22	1.88	0.72
1:D:611:THR:O	1:D:615:ILE:HG13	1.89	0.72
1:E:510:GLN:O	1:E:514:ASP:HB2	1.89	0.72
2:P:51:MET:HB3	2:P:71:MET:CE	2.20	0.72
1:A:115:LYS:NZ	1:A:116:GLU:H	1.85	0.72
1:A:197:LYS:C	1:A:197:LYS:HZ3	1.96	0.72
1:A:329:ARG:HD2	1:A:590:ASP:OD2	1.89	0.72
1:A:629:ASN:ND2	1:A:631:SER:HB2	2.04	0.72
1:B:153:ILE:O	1:B:154:ILE:HD13	1.90	0.72
1:B:450:ASN:ND2	1:B:452:GLU:HG3	2.05	0.72
1:B:510:GLN:O	1:B:514:ASP:HB2	1.89	0.72
1:D:515:LYS:HB3	1:D:515:LYS:NZ	2.04	0.72
1:E:302:LEU:HD22	1:E:602:PHE:CE1	2.24	0.72
1:F:401:ILE:HD13	1:F:485:LEU:O	1.90	0.72
1:F:615:ILE:HD12	1:F:645:TRP:HH2	1.54	0.72
1:F:639:ASN:H	1:F:639:ASN:HD22	1.33	0.72
2:R:51:MET:HB3	2:R:71:MET:CE	2.20	0.72
2:T:110:THR:HA	2:T:114:GLU:O	1.89	0.72
1:D:450:ASN:ND2	1:D:452:GLU:HG3	2.04	0.72
1:E:464:VAL:HG23	1:E:465:LEU:HD12	1.72	0.72
1:F:302:LEU:HD22	1:F:602:PHE:CE1	2.24	0.72
1:F:329:ARG:HD2	1:F:590:ASP:OD2	1.90	0.72
2:Q:48:LEU:O	2:Q:52:ILE:HG22	1.88	0.72
1:C:199:LEU:C	1:C:201:ASP:H	1.97	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:115:LYS:HG3	1:F:153:ILE:HG21	1.71	0.72
1:F:510:GLN:O	1:F:514:ASP:HB2	1.89	0.72
2:P:115:LYS:HA	2:P:115:LYS:NZ	2.05	0.72
1:A:615:ILE:HD12	1:A:645:TRP:HH2	1.55	0.71
1:C:579:THR:O	1:C:581:GLN:N	2.23	0.71
1:D:515:LYS:HG2	1:D:515:LYS:O	1.90	0.71
1:E:611:THR:O	1:E:615:ILE:HG13	1.90	0.71
1:E:615:ILE:HD12	1:E:645:TRP:HH2	1.55	0.71
1:F:441:VAL:HG22	1:F:461:LYS:CG	2.20	0.71
2:P:48:LEU:O	2:P:52:ILE:HG22	1.88	0.71
2:S:51:MET:HB3	2:S:71:MET:CE	2.20	0.71
1:A:199:LEU:C	1:A:201:ASP:H	1.96	0.71
1:A:464:VAL:HG23	1:A:465:LEU:HD12	1.72	0.71
1:B:199:LEU:C	1:B:201:ASP:H	1.96	0.71
1:F:464:VAL:HG23	1:F:465:LEU:HD12	1.72	0.71
1:F:512:GLU:O	1:F:516:VAL:HG23	1.90	0.71
1:A:302:LEU:HD22	1:A:602:PHE:CE1	2.26	0.71
1:F:450:ASN:ND2	1:F:452:GLU:HG3	2.05	0.71
1:F:711:ILE:HG13	1:F:712:PHE:CD2	2.25	0.71
1:F:736:LEU:HD21	1:F:750:GLN:NE2	2.05	0.71
2:O:55:VAL:HG11	2:O:71:MET:HE3	1.71	0.71
1:B:611:THR:O	1:B:615:ILE:HG13	1.91	0.71
1:D:579:THR:O	1:D:581:GLN:N	2.24	0.71
1:D:629:ASN:ND2	1:D:631:SER:HB2	2.05	0.71
1:D:711:ILE:HG13	1:D:712:PHE:CD2	2.26	0.71
1:F:408:LEU:HD12	1:F:408:LEU:N	2.04	0.71
2:P:110:THR:HA	2:P:114:GLU:O	1.90	0.71
1:C:510:GLN:O	1:C:514:ASP:HB2	1.89	0.71
1:E:630:ARG:HH11	1:E:630:ARG:HG3	1.55	0.71
2:O:51:MET:HB3	2:O:71:MET:CE	2.20	0.71
2:O:102:ALA:HB2	2:O:125:ILE:HG13	1.71	0.71
2:T:92:PHE:O	2:T:94:LYS:N	2.20	0.71
1:B:464:VAL:HG23	1:B:465:LEU:HD12	1.72	0.71
1:B:716:LYS:O	1:B:720:ILE:HG22	1.89	0.71
1:C:189:ASP:O	1:C:190:PRO:C	2.32	0.71
1:C:515:LYS:NZ	1:C:515:LYS:HB3	2.06	0.71
1:C:711:ILE:HG13	1:C:712:PHE:CD2	2.26	0.71
1:C:716:LYS:O	1:C:720:ILE:HG22	1.90	0.71
1:E:589:LYS:HB2	1:E:643:ILE:HD13	1.70	0.71
2:Q:51:MET:HB3	2:Q:71:MET:CE	2.20	0.71
2:Q:115:LYS:HA	2:Q:115:LYS:NZ	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:LYS:H	1:A:368:GLN:HE22	1.36	0.71
1:C:153:ILE:O	1:C:154:ILE:HD13	1.90	0.71
1:C:409:ARG:CZ	1:C:413:LEU:HD21	2.21	0.71
1:D:142:VAL:HG13	1:D:154:ILE:CD1	2.21	0.71
1:E:338:LEU:HD21	1:E:409:ARG:CZ	2.21	0.71
1:E:441:VAL:HG22	1:E:461:LYS:CG	2.20	0.71
1:F:142:VAL:HG22	1:F:154:ILE:HG23	1.73	0.71
2:P:55:VAL:HG11	2:P:71:MET:HE3	1.72	0.71
2:S:64:ASP:CG	2:S:66:PRO:HD2	2.16	0.71
1:A:409:ARG:CZ	1:A:413:LEU:HD21	2.21	0.71
1:A:579:THR:O	1:A:581:GLN:N	2.22	0.71
1:B:441:VAL:HG22	1:B:461:LYS:CG	2.20	0.71
1:C:184:LYS:HE3	1:C:191:GLU:HB2	1.73	0.71
1:C:297:LYS:HA	1:C:602:PHE:O	1.91	0.71
1:D:441:VAL:HG22	1:D:461:LYS:CG	2.20	0.71
1:E:105:TYR:HE1	1:E:151:LYS:HZ2	1.38	0.71
1:E:199:LEU:C	1:E:201:ASP:H	1.97	0.71
2:T:4:LEU:CB	2:T:8:GLN:HE21	2.03	0.71
2:T:106:ARG:HB2	2:T:121:VAL:HG21	1.71	0.71
1:A:450:ASN:ND2	1:A:452:GLU:HG3	2.05	0.71
1:B:615:ILE:HD12	1:B:645:TRP:HH2	1.55	0.71
1:C:630:ARG:CZ	2:Q:83:GLU:HG2	2.21	0.71
1:D:409:ARG:CZ	1:D:413:LEU:HD21	2.20	0.71
1:D:736:LEU:HD21	1:D:750:GLN:NE2	2.06	0.71
1:F:161:ILE:HG23	1:F:168:GLU:HB2	1.73	0.71
2:S:110:THR:HA	2:S:114:GLU:O	1.90	0.71
1:B:115:LYS:NZ	1:B:116:GLU:H	1.85	0.71
1:B:736:LEU:HD21	1:B:750:GLN:NE2	2.06	0.71
1:C:353:LYS:H	1:C:368:GLN:HE22	1.36	0.71
1:C:530:THR:HG21	2:Q:145:MET:HE3	1.72	0.71
1:D:478:ALA:HB1	1:D:486:LYS:O	1.91	0.71
1:D:736:LEU:HD21	1:D:750:GLN:CD	2.15	0.71
1:E:297:LYS:HA	1:E:602:PHE:O	1.91	0.71
1:E:694:VAL:HG23	2:S:18:LEU:HD11	1.73	0.71
1:F:736:LEU:HD21	1:F:750:GLN:CD	2.15	0.71
2:R:4:LEU:CB	2:R:8:GLN:HE21	2.04	0.71
2:S:55:VAL:HG11	2:S:71:MET:HE3	1.71	0.71
1:B:515:LYS:NZ	1:B:515:LYS:HB3	2.04	0.70
1:D:107:THR:CG2	1:D:115:LYS:HE2	2.21	0.70
1:D:134:LYS:O	1:D:135:VAL:HG12	1.91	0.70
1:D:353:LYS:H	1:D:368:GLN:HE22	1.35	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:510:GLN:O	1:D:514:ASP:HB2	1.91	0.70
1:E:197:LYS:C	1:E:197:LYS:HZ3	1.99	0.70
1:E:716:LYS:O	1:E:720:ILE:HG22	1.91	0.70
2:O:106:ARG:HB2	2:O:121:VAL:HG21	1.72	0.70
2:P:64:ASP:CG	2:P:66:PRO:HD2	2.16	0.70
2:Q:55:VAL:HG11	2:Q:71:MET:HE3	1.71	0.70
2:Q:92:PHE:O	2:Q:94:LYS:N	2.22	0.70
2:S:4:LEU:CB	2:S:8:GLN:HE21	2.03	0.70
1:D:355:SER:OG	1:D:371:SER:HA	1.90	0.70
1:E:355:SER:OG	1:E:371:SER:HA	1.91	0.70
1:E:409:ARG:CZ	1:E:413:LEU:HD21	2.21	0.70
1:E:450:ASN:ND2	1:E:452:GLU:HG3	2.06	0.70
1:E:736:LEU:HD21	1:E:750:GLN:NE2	2.07	0.70
1:F:409:ARG:CZ	1:F:413:LEU:HD21	2.21	0.70
1:F:515:LYS:NZ	1:F:515:LYS:HB3	2.06	0.70
2:O:92:PHE:O	2:O:94:LYS:N	2.23	0.70
1:B:134:LYS:O	1:B:135:VAL:HG12	1.91	0.70
1:B:338:LEU:HD21	1:B:409:ARG:CZ	2.22	0.70
1:C:142:VAL:HG22	1:C:154:ILE:HG23	1.72	0.70
1:E:134:LYS:O	1:E:135:VAL:HG12	1.91	0.70
1:E:515:LYS:NZ	1:E:515:LYS:HB3	2.05	0.70
1:A:115:LYS:HZ3	1:A:115:LYS:HA	1.56	0.70
1:B:142:VAL:HG13	1:B:154:ILE:CD1	2.21	0.70
2:O:32:LEU:HD22	2:O:63:ILE:CD1	2.21	0.70
2:O:64:ASP:CG	2:O:66:PRO:HD2	2.16	0.70
2:P:4:LEU:CB	2:P:8:GLN:HE21	2.04	0.70
2:R:32:LEU:HD22	2:R:63:ILE:CD1	2.21	0.70
2:R:92:PHE:O	2:R:94:LYS:N	2.22	0.70
1:A:441:VAL:HG22	1:A:461:LYS:CG	2.20	0.70
1:C:671:ARG:HH12	1:C:677:GLY:HA3	1.56	0.70
1:E:180:ASP:CG	1:E:181:ILE:H	2.00	0.70
1:F:540:ARG:HD3	1:F:627:TYR:OH	1.92	0.70
2:Q:64:ASP:CG	2:Q:66:PRO:HD2	2.17	0.70
2:T:51:MET:HB3	2:T:71:MET:CE	2.20	0.70
1:C:764:LEU:O	1:C:766:HIS:N	2.25	0.70
1:D:199:LEU:C	1:D:201:ASP:H	1.96	0.70
1:D:279:ILE:O	1:D:283:LEU:HD13	1.92	0.70
1:E:115:LYS:HA	1:E:115:LYS:HZ3	1.57	0.70
1:E:736:LEU:HD21	1:E:750:GLN:CD	2.16	0.70
1:A:540:ARG:HD3	1:A:627:TYR:OH	1.92	0.70
1:A:711:ILE:HG13	1:A:712:PHE:CD2	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:736:LEU:HD21	1:B:750:GLN:CD	2.16	0.70
1:D:268:MET:O	1:D:271:LEU:HB2	1.92	0.70
1:F:629:ASN:ND2	1:F:631:SER:HB2	2.06	0.70
1:A:716:LYS:O	1:A:720:ILE:HG22	1.90	0.70
1:B:329:ARG:HD2	1:B:590:ASP:OD2	1.91	0.70
1:C:115:LYS:HZ3	1:C:115:LYS:HA	1.57	0.70
1:C:408:LEU:HD12	1:C:408:LEU:N	2.06	0.70
1:C:450:ASN:ND2	1:C:452:GLU:HG3	2.06	0.70
1:F:297:LYS:HA	1:F:602:PHE:O	1.92	0.70
2:T:32:LEU:HD22	2:T:63:ILE:CD1	2.22	0.70
1:A:197:LYS:HZ2	1:A:197:LYS:HB3	1.56	0.70
1:A:736:LEU:HD21	1:A:750:GLN:NE2	2.07	0.70
1:E:279:ILE:O	1:E:283:LEU:HD13	1.92	0.70
1:F:105:TYR:HE1	1:F:151:LYS:HZ2	1.38	0.70
1:F:279:ILE:O	1:F:283:LEU:HD13	1.92	0.70
2:P:32:LEU:HD22	2:P:63:ILE:CD1	2.22	0.70
2:R:64:ASP:CG	2:R:66:PRO:HD2	2.16	0.70
1:A:515:LYS:HG2	1:A:515:LYS:O	1.91	0.70
1:B:401:ILE:HD13	1:B:485:LEU:O	1.91	0.70
1:B:550:SER:HG	1:B:552:TRP:CD1	2.10	0.70
1:D:764:LEU:O	1:D:766:HIS:N	2.25	0.70
1:F:338:LEU:HD21	1:F:409:ARG:CZ	2.22	0.70
2:O:16:PHE:CE2	2:O:27:ILE:HD11	2.26	0.70
2:R:55:VAL:HG11	2:R:71:MET:HE3	1.71	0.70
1:B:355:SER:OG	1:B:371:SER:HA	1.92	0.69
1:C:401:ILE:HD13	1:C:485:LEU:O	1.91	0.69
1:C:441:VAL:HG22	1:C:461:LYS:CG	2.21	0.69
1:C:611:THR:O	1:C:615:ILE:HG13	1.92	0.69
1:F:697:ILE:HD13	1:F:732:ILE:HD12	1.72	0.69
2:O:117:THR:HG23	2:O:120:GLU:HB2	1.74	0.69
1:B:409:ARG:CZ	1:B:413:LEU:HD21	2.22	0.69
1:E:478:ALA:HB1	1:E:486:LYS:O	1.92	0.69
2:R:72:MET:C	2:R:74:ARG:H	2.00	0.69
2:S:32:LEU:HD22	2:S:63:ILE:CD1	2.22	0.69
1:A:142:VAL:HG22	1:A:154:ILE:HG23	1.72	0.69
1:A:279:ILE:O	1:A:283:LEU:HD13	1.92	0.69
1:A:512:GLU:O	1:A:516:VAL:HG23	1.91	0.69
1:B:142:VAL:HG22	1:B:154:ILE:HG23	1.72	0.69
1:C:142:VAL:HG13	1:C:154:ILE:CD1	2.22	0.69
1:C:279:ILE:O	1:C:283:LEU:HD13	1.91	0.69
1:C:629:ASN:ND2	1:C:631:SER:HB2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:697:ILE:HD13	1:C:732:ILE:CD1	2.21	0.69
1:C:697:ILE:HD13	1:C:732:ILE:HD12	1.73	0.69
1:F:142:VAL:HG13	1:F:154:ILE:CD1	2.22	0.69
1:F:530:THR:HG21	2:T:145:MET:HE3	1.74	0.69
1:A:161:ILE:HG23	1:A:168:GLU:HB2	1.72	0.69
1:A:597:ASN:ND2	1:A:601:GLU:HB2	1.99	0.69
1:B:711:ILE:HG13	1:B:712:PHE:CD2	2.27	0.69
2:Q:32:LEU:HD22	2:Q:63:ILE:CD1	2.22	0.69
1:A:736:LEU:HD21	1:A:750:GLN:CD	2.17	0.69
1:C:515:LYS:O	1:C:515:LYS:HG2	1.92	0.69
1:E:142:VAL:HG13	1:E:154:ILE:CD1	2.22	0.69
1:E:161:ILE:HG23	1:E:168:GLU:HB2	1.73	0.69
1:F:134:LYS:O	1:F:135:VAL:HG12	1.93	0.69
1:F:154:ILE:HG21	1:F:171:TYR:CE2	2.27	0.69
2:P:106:ARG:HB2	2:P:121:VAL:HG21	1.75	0.69
1:B:530:THR:HG21	2:P:145:MET:HE3	1.73	0.69
1:C:736:LEU:HD21	1:C:750:GLN:CD	2.17	0.69
1:C:736:LEU:HD21	1:C:750:GLN:NE2	2.07	0.69
1:E:515:LYS:O	1:E:515:LYS:HG2	1.91	0.69
1:A:478:ALA:HB1	1:A:486:LYS:O	1.91	0.69
1:A:630:ARG:CZ	2:O:83:GLU:HG2	2.22	0.69
1:B:201:ASP:HA	1:B:210:PHE:HE2	1.58	0.69
1:E:348:LEU:HD12	1:E:545:THR:O	1.92	0.69
1:E:697:ILE:HD13	1:E:732:ILE:CD1	2.22	0.69
1:F:405:LEU:HD13	1:F:453:VAL:HG21	1.75	0.69
2:S:115:LYS:HZ3	2:S:115:LYS:HA	1.56	0.69
2:T:64:ASP:CG	2:T:66:PRO:HD2	2.17	0.69
1:A:189:ASP:O	1:A:191:GLU:N	2.26	0.69
1:A:355:SER:OG	1:A:371:SER:HA	1.93	0.69
1:A:671:ARG:HH12	1:A:677:GLY:HA3	1.57	0.69
1:B:515:LYS:O	1:B:515:LYS:HG2	1.91	0.69
1:B:694:VAL:HG23	2:P:18:LEU:HD11	1.75	0.69
1:D:79:ILE:C	1:D:81:GLN:H	2.01	0.69
1:D:197:LYS:HZ2	1:D:197:LYS:HB3	1.57	0.69
1:D:297:LYS:HA	1:D:602:PHE:O	1.92	0.69
1:D:711:ILE:HG13	1:D:712:PHE:CE2	2.28	0.69
1:E:201:ASP:HA	1:E:210:PHE:HE2	1.58	0.69
1:E:457:THR:HG21	1:E:468:LYS:HA	1.75	0.69
1:F:189:ASP:O	1:F:191:GLU:N	2.25	0.69
1:F:201:ASP:HA	1:F:210:PHE:HE2	1.58	0.69
1:F:611:THR:O	1:F:615:ILE:HG13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:630:ARG:CZ	2:T:83:GLU:HG2	2.22	0.69
1:F:711:ILE:HG13	1:F:712:PHE:CE2	2.28	0.69
2:O:72:MET:C	2:O:74:ARG:H	2.01	0.69
2:T:117:THR:HG23	2:T:120:GLU:HB2	1.75	0.69
1:A:297:LYS:HA	1:A:602:PHE:O	1.92	0.69
1:A:697:ILE:HD13	1:A:732:ILE:HD12	1.75	0.69
1:B:161:ILE:HG23	1:B:168:GLU:HB2	1.73	0.69
1:B:470:ASN:O	1:B:472:ARG:HG3	1.93	0.69
1:C:338:LEU:HD21	1:C:409:ARG:CZ	2.22	0.69
1:D:540:ARG:HD3	1:D:627:TYR:OH	1.93	0.69
1:E:470:ASN:O	1:E:472:ARG:HG3	1.93	0.69
1:F:478:ALA:HB1	1:F:486:LYS:O	1.92	0.69
2:Q:49:GLN:O	2:Q:53:ASN:HB2	1.93	0.69
2:S:24:ASP:CB	2:S:26:THR:HG23	2.23	0.69
2:S:115:LYS:HA	2:S:115:LYS:NZ	2.07	0.69
2:T:115:LYS:HA	2:T:115:LYS:NZ	2.07	0.69
1:B:234:LEU:HD23	1:B:235:THR:H	1.58	0.69
1:B:457:THR:HG21	1:B:468:LYS:HA	1.75	0.69
1:B:597:ASN:ND2	1:B:601:GLU:HB2	2.00	0.69
1:C:270:LYS:O	1:C:273:LYS:HB2	1.93	0.69
2:Q:117:THR:HG23	2:Q:120:GLU:HB2	1.75	0.69
2:S:106:ARG:HB2	2:S:121:VAL:HG21	1.75	0.69
1:A:179:LEU:HD23	1:A:179:LEU:H	1.58	0.68
1:A:550:SER:HG	1:A:552:TRP:CD1	2.11	0.68
1:C:180:ASP:CG	1:C:181:ILE:H	2.01	0.68
1:C:478:ALA:HB1	1:C:486:LYS:O	1.92	0.68
1:F:180:ASP:CG	1:F:181:ILE:H	2.01	0.68
1:F:327:LEU:HG	1:F:595:ILE:HG12	1.75	0.68
1:F:515:LYS:HG2	1:F:515:LYS:O	1.92	0.68
1:A:517:VAL:HB	1:A:525:LYS:HZ1	1.57	0.68
1:F:268:MET:O	1:F:271:LEU:HB2	1.93	0.68
1:F:355:SER:OG	1:F:371:SER:HA	1.92	0.68
1:F:457:THR:HG21	1:F:468:LYS:HA	1.74	0.68
2:Q:64:ASP:HB3	2:Q:67:GLU:OE2	1.93	0.68
2:Q:72:MET:C	2:Q:74:ARG:H	2.00	0.68
2:R:49:GLN:O	2:R:53:ASN:HB2	1.94	0.68
2:R:64:ASP:HB3	2:R:67:GLU:OE2	1.92	0.68
1:B:180:ASP:CG	1:B:181:ILE:H	2.01	0.68
1:C:201:ASP:HA	1:C:210:PHE:HE2	1.58	0.68
1:C:355:SER:OG	1:C:371:SER:HA	1.91	0.68
1:C:470:ASN:O	1:C:472:ARG:HG3	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:179:LEU:HD23	1:D:179:LEU:H	1.58	0.68
1:D:270:LYS:O	1:D:273:LYS:HB2	1.94	0.68
1:D:671:ARG:HH12	1:D:677:GLY:HA3	1.58	0.68
1:B:279:ILE:O	1:B:283:LEU:HD13	1.92	0.68
1:B:711:ILE:HG13	1:B:712:PHE:CE2	2.28	0.68
1:C:630:ARG:HG3	1:C:630:ARG:HH11	1.59	0.68
1:C:764:LEU:C	1:C:766:HIS:N	2.49	0.68
1:D:630:ARG:HH11	1:D:630:ARG:HG3	1.57	0.68
1:F:201:ASP:OD1	1:F:218:LEU:HD21	1.93	0.68
1:F:470:ASN:O	1:F:472:ARG:HG3	1.93	0.68
2:Q:4:LEU:CB	2:Q:8:GLN:HE21	2.06	0.68
1:A:180:ASP:CG	1:A:181:ILE:H	2.02	0.68
1:C:107:THR:CG2	1:C:115:LYS:HE2	2.24	0.68
1:D:630:ARG:CZ	2:R:83:GLU:HG2	2.24	0.68
1:E:540:ARG:HD3	1:E:627:TYR:OH	1.94	0.68
1:E:697:ILE:HD13	1:E:732:ILE:HD12	1.74	0.68
2:O:64:ASP:HB3	2:O:67:GLU:OE2	1.94	0.68
2:P:64:ASP:HB3	2:P:67:GLU:OE2	1.94	0.68
1:A:630:ARG:HH11	1:A:630:ARG:HG3	1.58	0.68
1:D:697:ILE:HD13	1:D:732:ILE:CD1	2.23	0.68
1:F:179:LEU:HD23	1:F:179:LEU:H	1.58	0.68
1:F:186:LYS:HE3	1:F:234:LEU:CD1	2.24	0.68
1:F:671:ARG:HH12	1:F:677:GLY:HA3	1.57	0.68
2:Q:106:ARG:HB2	2:Q:121:VAL:HG21	1.74	0.68
1:A:348:LEU:HD12	1:A:545:THR:O	1.93	0.68
1:D:470:ASN:O	1:D:472:ARG:HG3	1.93	0.68
1:D:697:ILE:HD13	1:D:732:ILE:HD12	1.74	0.68
1:E:99:GLU:C	1:E:101:GLY:H	2.01	0.68
1:E:179:LEU:HD23	1:E:179:LEU:H	1.59	0.68
1:E:711:ILE:HG13	1:E:712:PHE:CD2	2.27	0.68
2:P:24:ASP:CB	2:P:26:THR:HG23	2.23	0.68
2:S:64:ASP:HB3	2:S:67:GLU:OE2	1.94	0.68
2:T:64:ASP:HB3	2:T:67:GLU:OE2	1.94	0.68
1:A:697:ILE:HD13	1:A:732:ILE:CD1	2.24	0.68
1:C:268:MET:O	1:C:271:LEU:HB2	1.94	0.68
1:D:338:LEU:HD21	1:D:409:ARG:CZ	2.23	0.68
1:E:630:ARG:CZ	2:S:83:GLU:HG2	2.23	0.68
1:F:217:LYS:HZ1	1:F:236:GLU:HB2	1.59	0.68
1:A:268:MET:O	1:A:271:LEU:HB2	1.93	0.68
1:E:115:LYS:HB3	1:E:118:GLN:HG2	1.76	0.68
1:E:408:LEU:HD12	1:E:408:LEU:N	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:72:MET:C	2:S:74:ARG:H	2.00	0.68
1:A:326:ILE:HG22	1:A:328:PHE:HE1	1.59	0.68
1:A:478:ALA:HA	1:A:488:LEU:HG	1.75	0.68
1:A:557:LEU:HG	1:A:575:VAL:HG12	1.76	0.68
1:A:581:GLN:NE2	1:A:581:GLN:HA	2.09	0.68
1:A:711:ILE:HG13	1:A:712:PHE:CE2	2.29	0.68
1:B:115:LYS:HZ2	1:B:116:GLU:N	1.83	0.68
1:B:115:LYS:HB3	1:B:118:GLN:HG2	1.76	0.68
1:B:405:LEU:HD13	1:B:453:VAL:HG21	1.76	0.68
1:E:79:ILE:C	1:E:81:GLN:H	2.01	0.68
1:E:530:THR:HG21	2:S:145:MET:HE3	1.76	0.68
1:F:104:ILE:HG23	1:F:152:LEU:HD23	1.75	0.68
2:T:49:GLN:O	2:T:53:ASN:HB2	1.93	0.68
1:A:186:LYS:HE3	1:A:234:LEU:CD1	2.24	0.67
1:A:470:ASN:O	1:A:472:ARG:HG3	1.94	0.67
1:B:348:LEU:HD12	1:B:545:THR:O	1.94	0.67
1:B:517:VAL:HB	1:B:525:LYS:HZ1	1.57	0.67
1:C:711:ILE:HG13	1:C:712:PHE:CE2	2.29	0.67
1:E:189:ASP:O	1:E:190:PRO:C	2.33	0.67
1:F:115:LYS:HB3	1:F:118:GLN:HG2	1.75	0.67
1:F:697:ILE:HD13	1:F:732:ILE:CD1	2.23	0.67
1:A:457:THR:HG21	1:A:468:LYS:HA	1.75	0.67
1:A:750:GLN:O	1:A:753:LYS:HB2	1.94	0.67
1:A:764:LEU:O	1:A:766:HIS:N	2.28	0.67
1:B:478:ALA:HA	1:B:488:LEU:HG	1.76	0.67
1:B:629:ASN:ND2	1:B:631:SER:HB2	2.06	0.67
1:B:764:LEU:O	1:B:766:HIS:N	2.27	0.67
1:C:115:LYS:HB3	1:C:118:GLN:HG2	1.75	0.67
1:D:128:MET:HE1	1:D:235:THR:CB	2.24	0.67
1:F:183:SER:O	1:F:187:SER:CA	2.43	0.67
1:F:557:LEU:HG	1:F:575:VAL:HG12	1.76	0.67
2:O:49:GLN:O	2:O:53:ASN:HB2	1.94	0.67
2:O:138:TYR:O	2:O:142:VAL:HG23	1.94	0.67
2:P:49:GLN:O	2:P:53:ASN:HB2	1.94	0.67
2:Q:16:PHE:CE2	2:Q:27:ILE:HD11	2.30	0.67
1:A:134:LYS:O	1:A:135:VAL:HG12	1.93	0.67
1:A:201:ASP:OD1	1:A:218:LEU:HD21	1.94	0.67
1:B:179:LEU:HG	1:B:180:ASP:N	2.08	0.67
1:C:105:TYR:HE1	1:C:151:LYS:HZ2	1.41	0.67
1:C:179:LEU:HG	1:C:180:ASP:N	2.10	0.67
1:C:201:ASP:OD1	1:C:218:LEU:HD21	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:71:PHE:CD2	1:D:73:ASN:HB2	2.29	0.67
1:D:348:LEU:HD12	1:D:545:THR:O	1.94	0.67
1:E:254:ARG:HD2	1:E:254:ARG:N	2.10	0.67
1:E:405:LEU:HD13	1:E:453:VAL:HG21	1.75	0.67
1:F:764:LEU:O	1:F:766:HIS:N	2.27	0.67
1:A:270:LYS:O	1:A:273:LYS:HB2	1.94	0.67
1:A:338:LEU:HD21	1:A:409:ARG:CZ	2.24	0.67
1:C:405:LEU:HD13	1:C:453:VAL:HG21	1.76	0.67
1:D:457:THR:HG21	1:D:468:LYS:HA	1.75	0.67
1:D:478:ALA:HA	1:D:488:LEU:HG	1.76	0.67
2:P:72:MET:C	2:P:74:ARG:H	2.01	0.67
2:R:106:ARG:HB2	2:R:121:VAL:HG21	1.74	0.67
1:A:179:LEU:HG	1:A:180:ASP:N	2.08	0.67
1:A:540:ARG:HD3	1:A:627:TYR:CZ	2.30	0.67
1:B:540:ARG:HD3	1:B:627:TYR:OH	1.95	0.67
1:B:695:LYS:HG3	2:P:19:PHE:CE1	2.30	0.67
1:C:78:LYS:HG3	1:C:79:ILE:N	2.09	0.67
1:C:504:ILE:O	1:C:507:GLN:HB3	1.94	0.67
1:C:540:ARG:HD3	1:C:627:TYR:OH	1.95	0.67
1:D:504:ILE:O	1:D:507:GLN:HB3	1.95	0.67
1:F:197:LYS:C	1:F:197:LYS:HZ3	2.03	0.67
2:S:49:GLN:O	2:S:53:ASN:HB2	1.93	0.67
1:A:179:LEU:HG	1:A:180:ASP:H	1.59	0.67
1:C:128:MET:HE1	1:C:235:THR:CB	2.24	0.67
1:C:183:SER:O	1:C:187:SER:CA	2.43	0.67
1:C:327:LEU:HG	1:C:595:ILE:HG12	1.77	0.67
1:D:201:ASP:HA	1:D:210:PHE:HE2	1.59	0.67
1:D:201:ASP:OD1	1:D:218:LEU:HD21	1.95	0.67
1:D:405:LEU:HD13	1:D:453:VAL:HG21	1.76	0.67
1:E:630:ARG:HG3	1:E:630:ARG:NH1	2.09	0.67
1:F:694:VAL:HG23	2:T:18:LEU:HD11	1.76	0.67
2:S:48:LEU:HA	2:S:51:MET:CE	2.13	0.67
1:A:254:ARG:HD2	1:A:254:ARG:N	2.09	0.67
1:A:530:THR:HG21	2:O:145:MET:HE3	1.76	0.67
1:B:671:ARG:HH12	1:B:677:GLY:HA3	1.57	0.67
1:D:171:TYR:O	1:D:171:TYR:HD1	1.78	0.67
1:D:617:LYS:HZ2	1:D:618:ASN:ND2	1.84	0.67
1:E:711:ILE:HG13	1:E:712:PHE:CE2	2.29	0.67
1:F:478:ALA:HA	1:F:488:LEU:HG	1.76	0.67
1:B:197:LYS:HZ2	1:B:197:LYS:HB3	1.59	0.67
1:B:697:ILE:HD13	1:B:732:ILE:HD12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:671:ARG:HH12	1:E:677:GLY:HA3	1.57	0.67
2:P:124:MET:O	2:P:125:ILE:C	2.38	0.67
1:A:201:ASP:HA	1:A:210:PHE:HE2	1.59	0.67
1:A:405:LEU:HD13	1:A:453:VAL:HG21	1.77	0.67
1:A:408:LEU:HD12	1:A:408:LEU:N	2.06	0.67
1:B:697:ILE:HD13	1:B:732:ILE:CD1	2.25	0.67
1:C:179:LEU:HD23	1:C:179:LEU:H	1.59	0.67
1:D:115:LYS:HB3	1:D:118:GLN:HG2	1.76	0.67
1:E:695:LYS:HG3	2:S:19:PHE:CE1	2.29	0.67
1:A:115:LYS:HZ2	1:A:116:GLU:N	1.85	0.67
1:B:268:MET:O	1:B:271:LEU:HB2	1.95	0.67
1:C:557:LEU:HG	1:C:575:VAL:HG12	1.76	0.67
1:D:189:ASP:O	1:D:191:GLU:N	2.28	0.67
1:F:348:LEU:HD12	1:F:545:THR:O	1.94	0.67
1:A:115:LYS:HB3	1:A:118:GLN:HG2	1.75	0.66
1:A:142:VAL:HG13	1:A:154:ILE:CD1	2.25	0.66
1:A:154:ILE:HG21	1:A:171:TYR:CE2	2.30	0.66
1:B:661:ALA:O	1:B:665:LYS:HB2	1.95	0.66
1:C:99:GLU:C	1:C:101:GLY:H	2.01	0.66
1:C:581:GLN:NE2	1:C:581:GLN:HA	2.09	0.66
1:C:694:VAL:HG23	2:Q:18:LEU:HD11	1.76	0.66
1:D:557:LEU:HG	1:D:575:VAL:HG12	1.75	0.66
1:D:581:GLN:NE2	1:D:581:GLN:HA	2.09	0.66
1:E:122:GLU:O	1:E:146:LYS:HE2	1.95	0.66
1:E:557:LEU:HG	1:E:575:VAL:HG12	1.76	0.66
1:F:115:LYS:HZ3	1:F:115:LYS:HA	1.59	0.66
1:F:189:ASP:O	1:F:190:PRO:C	2.38	0.66
1:F:540:ARG:HD3	1:F:627:TYR:CZ	2.29	0.66
2:P:117:THR:HG23	2:P:120:GLU:HB2	1.77	0.66
2:R:16:PHE:CE2	2:R:27:ILE:HD11	2.30	0.66
1:A:715:GLU:HA	1:A:718:ARG:NH1	2.10	0.66
1:B:99:GLU:C	1:B:101:GLY:H	2.02	0.66
1:B:408:LEU:HD12	1:B:408:LEU:N	2.06	0.66
1:C:397:GLU:O	1:C:479:LYS:HA	1.95	0.66
1:D:567:THR:CG2	1:D:568:GLY:N	2.58	0.66
1:E:268:MET:O	1:E:271:LEU:HB2	1.95	0.66
2:T:4:LEU:HA	2:T:8:GLN:HE21	1.60	0.66
1:A:79:ILE:C	1:A:81:GLN:H	2.02	0.66
1:C:179:LEU:HG	1:C:180:ASP:H	1.60	0.66
1:C:348:LEU:HD12	1:C:545:THR:O	1.94	0.66
1:C:478:ALA:HA	1:C:488:LEU:HG	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:78:LYS:HG3	1:D:79:ILE:N	2.10	0.66
1:D:183:SER:O	1:D:187:SER:CA	2.43	0.66
1:D:695:LYS:HG3	2:R:19:PHE:CE1	2.30	0.66
1:E:301:ALA:C	1:E:303:LYS:N	2.53	0.66
1:E:478:ALA:HA	1:E:488:LEU:HG	1.77	0.66
1:F:715:GLU:HA	1:F:718:ARG:NH1	2.10	0.66
2:Q:13:LYS:HA	2:Q:65:PHE:CZ	2.30	0.66
2:S:117:THR:HG23	2:S:120:GLU:HB2	1.77	0.66
1:B:79:ILE:C	1:B:81:GLN:H	2.02	0.66
1:B:115:LYS:HA	1:B:115:LYS:HZ3	1.60	0.66
1:C:457:THR:HG21	1:C:468:LYS:HA	1.75	0.66
1:F:99:GLU:C	1:F:101:GLY:H	2.02	0.66
1:A:234:LEU:HD23	1:A:235:THR:H	1.60	0.66
1:A:472:ARG:HB3	1:A:472:ARG:NH1	2.11	0.66
1:B:179:LEU:HD23	1:B:179:LEU:H	1.60	0.66
1:B:254:ARG:HD2	1:B:254:ARG:N	2.10	0.66
1:B:301:ALA:C	1:B:303:LYS:N	2.52	0.66
1:B:540:ARG:HD3	1:B:627:TYR:CZ	2.30	0.66
1:C:712:PHE:HB3	1:C:716:LYS:HG2	1.77	0.66
1:D:424:LYS:HZ2	1:D:424:LYS:HB3	1.60	0.66
1:E:201:ASP:OD1	1:E:218:LEU:HD21	1.95	0.66
1:E:540:ARG:HD3	1:E:627:TYR:CZ	2.30	0.66
1:E:581:GLN:NE2	1:E:581:GLN:HA	2.10	0.66
1:F:617:LYS:HZ2	1:F:618:ASN:ND2	1.84	0.66
2:P:13:LYS:HA	2:P:65:PHE:CZ	2.31	0.66
2:T:72:MET:C	2:T:74:ARG:H	2.01	0.66
1:A:171:TYR:HD1	1:A:171:TYR:O	1.79	0.66
1:B:557:LEU:HG	1:B:575:VAL:HG12	1.78	0.66
1:D:540:ARG:HD3	1:D:627:TYR:CZ	2.31	0.66
1:E:764:LEU:O	1:E:766:HIS:N	2.29	0.66
1:F:504:ILE:O	1:F:507:GLN:HB3	1.96	0.66
2:Q:5:THR:HG23	2:Q:8:GLN:HB2	1.78	0.66
2:R:124:MET:O	2:R:125:ILE:C	2.39	0.66
2:S:16:PHE:CE2	2:S:27:ILE:HD11	2.31	0.66
1:A:78:LYS:HG3	1:A:79:ILE:N	2.09	0.66
1:B:179:LEU:HG	1:B:180:ASP:H	1.60	0.66
1:B:217:LYS:NZ	1:B:236:GLU:HB2	2.11	0.66
1:C:79:ILE:C	1:C:81:GLN:H	2.02	0.66
1:C:115:LYS:NZ	1:C:116:GLU:H	1.85	0.66
1:C:661:ALA:O	1:C:665:LYS:HB2	1.96	0.66
1:D:180:ASP:CG	1:D:181:ILE:H	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:205:SER:C	1:D:207:ASP:H	2.04	0.66
1:D:694:VAL:HG23	2:R:18:LEU:HD11	1.76	0.66
1:E:154:ILE:HG21	1:E:171:TYR:CE2	2.31	0.66
1:F:480:ASN:HD21	1:F:483:GLY:H	1.44	0.66
1:F:630:ARG:HH11	1:F:630:ARG:HG3	1.59	0.66
2:T:16:PHE:CE2	2:T:27:ILE:HD11	2.31	0.66
1:B:201:ASP:OD1	1:B:218:LEU:HD21	1.95	0.66
1:B:504:ILE:O	1:B:507:GLN:HB3	1.96	0.66
1:C:171:TYR:O	1:C:171:TYR:HD1	1.79	0.66
1:D:372:LYS:HG3	1:D:373:LYS:N	2.11	0.66
2:R:13:LYS:HA	2:R:65:PHE:CZ	2.31	0.66
1:A:504:ILE:O	1:A:507:GLN:HB3	1.95	0.66
1:B:302:LEU:HD22	1:B:602:PHE:HE1	1.61	0.66
1:D:179:LEU:HG	1:D:180:ASP:N	2.10	0.66
1:D:372:LYS:O	1:D:374:HIS:N	2.29	0.66
1:D:408:LEU:HD12	1:D:408:LEU:N	2.06	0.66
1:E:171:TYR:O	1:E:171:TYR:HD1	1.79	0.66
1:E:234:LEU:HD23	1:E:235:THR:H	1.59	0.66
1:E:504:ILE:O	1:E:507:GLN:HB3	1.96	0.66
2:O:24:ASP:CB	2:O:26:THR:HG23	2.24	0.66
2:T:124:MET:O	2:T:125:ILE:C	2.39	0.66
1:B:171:TYR:O	1:B:171:TYR:HD1	1.79	0.66
1:D:376:GLN:O	1:D:380:VAL:HG23	1.96	0.66
1:D:750:GLN:O	1:D:753:LYS:HB2	1.95	0.66
1:E:131:ARG:H	1:E:170:TYR:HE2	1.44	0.66
1:E:179:LEU:HG	1:E:180:ASP:N	2.10	0.66
1:E:397:GLU:O	1:E:479:LYS:HA	1.96	0.66
1:E:567:THR:CG2	1:E:568:GLY:N	2.58	0.66
1:F:234:LEU:HD23	1:F:235:THR:H	1.59	0.66
2:O:13:LYS:HA	2:O:65:PHE:CZ	2.31	0.66
2:O:44:THR:C	2:O:46:ALA:H	2.03	0.66
2:Q:12:PHE:CD1	2:Q:72:MET:HG3	2.31	0.66
2:Q:42:ASN:N	2:Q:43:PRO:HD2	2.11	0.66
2:R:5:THR:HG23	2:R:8:GLN:HB2	1.78	0.66
2:R:115:LYS:HA	2:R:115:LYS:HZ3	1.60	0.66
1:A:630:ARG:HG3	1:A:630:ARG:NH1	2.10	0.65
1:B:182:ILE:HD13	1:B:182:ILE:O	1.96	0.65
1:B:700:TYR:HD1	1:B:728:ALA:N	1.95	0.65
1:C:567:THR:CG2	1:C:568:GLY:N	2.59	0.65
1:D:630:ARG:HG3	1:D:630:ARG:NH1	2.10	0.65
1:F:79:ILE:C	1:F:81:GLN:H	2.02	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:708:ALA:O	1:F:710:HIS:N	2.30	0.65
2:P:16:PHE:CE2	2:P:27:ILE:HD11	2.31	0.65
2:S:13:LYS:HA	2:S:65:PHE:CZ	2.31	0.65
1:A:397:GLU:O	1:A:479:LYS:HA	1.96	0.65
1:C:695:LYS:HG3	2:Q:19:PHE:CE1	2.31	0.65
1:D:518:ASN:HD22	1:D:518:ASN:N	1.95	0.65
1:D:530:THR:HG21	2:R:145:MET:HE3	1.77	0.65
1:E:78:LYS:HG3	1:E:79:ILE:N	2.09	0.65
2:O:12:PHE:CD1	2:O:72:MET:HG3	2.31	0.65
2:T:42:ASN:N	2:T:43:PRO:HD2	2.11	0.65
2:T:138:TYR:O	2:T:142:VAL:HG23	1.96	0.65
1:A:183:SER:O	1:A:187:SER:CA	2.43	0.65
1:A:617:LYS:NZ	1:A:618:ASN:ND2	2.44	0.65
1:B:326:ILE:HG22	1:B:328:PHE:HE1	1.60	0.65
1:C:480:ASN:HD21	1:C:483:GLY:H	1.44	0.65
1:C:540:ARG:HD3	1:C:627:TYR:CZ	2.30	0.65
1:D:99:GLU:C	1:D:101:GLY:H	2.04	0.65
1:E:275:GLY:HA2	1:E:278:LYS:CE	2.26	0.65
1:E:372:LYS:O	1:E:374:HIS:N	2.28	0.65
1:E:643:ILE:HG22	1:E:644:GLU:H	1.61	0.65
1:F:179:LEU:HG	1:F:180:ASP:N	2.09	0.65
1:F:750:GLN:O	1:F:753:LYS:HB2	1.95	0.65
2:Q:106:ARG:O	2:Q:110:THR:HG23	1.97	0.65
2:R:117:THR:HG23	2:R:120:GLU:HB2	1.78	0.65
2:T:5:THR:HG23	2:T:8:GLN:HB2	1.78	0.65
2:T:13:LYS:HA	2:T:65:PHE:CZ	2.30	0.65
1:B:154:ILE:HG21	1:B:171:TYR:CE2	2.32	0.65
1:C:517:VAL:HB	1:C:525:LYS:HZ1	1.60	0.65
1:C:517:VAL:HG23	1:C:518:ASN:HD22	1.62	0.65
1:D:175:LYS:HB2	1:D:175:LYS:NZ	2.12	0.65
1:E:115:LYS:HZ2	1:E:116:GLU:N	1.84	0.65
1:E:302:LEU:HD22	1:E:602:PHE:HE1	1.61	0.65
1:E:517:VAL:HB	1:E:525:LYS:HZ1	1.61	0.65
1:E:715:GLU:HA	1:E:718:ARG:NH1	2.11	0.65
1:F:78:LYS:HG3	1:F:79:ILE:N	2.10	0.65
1:F:128:MET:HE1	1:F:235:THR:CB	2.26	0.65
2:O:124:MET:O	2:O:125:ILE:C	2.38	0.65
2:R:42:ASN:N	2:R:43:PRO:HD2	2.10	0.65
1:A:567:THR:CG2	1:A:568:GLY:N	2.59	0.65
1:B:567:THR:CG2	1:B:568:GLY:N	2.60	0.65
1:C:550:SER:HG	1:C:552:TRP:CD1	2.15	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:104:ILE:HG23	1:D:152:LEU:HD23	1.78	0.65
1:F:131:ARG:H	1:F:170:TYR:HE2	1.44	0.65
2:R:12:PHE:CD1	2:R:72:MET:HG3	2.32	0.65
2:T:48:LEU:HD23	2:T:51:MET:CE	2.27	0.65
1:A:301:ALA:C	1:A:303:LYS:N	2.53	0.65
1:A:712:PHE:HB3	1:A:716:LYS:HG2	1.78	0.65
1:B:270:LYS:O	1:B:273:LYS:HB2	1.96	0.65
1:B:750:GLN:O	1:B:753:LYS:HB2	1.96	0.65
1:C:275:GLY:HA2	1:C:278:LYS:CE	2.26	0.65
1:C:302:LEU:HD22	1:C:602:PHE:HE1	1.62	0.65
1:D:89:ILE:HD13	1:D:175:LYS:HE2	1.78	0.65
1:D:794:GLN:HE22	1:D:795:LYS:HG3	1.61	0.65
1:E:122:GLU:OE2	1:E:145:LYS:HE2	1.97	0.65
1:E:184:LYS:HA	1:E:187:SER:CB	2.27	0.65
2:S:42:ASN:N	2:S:43:PRO:HD2	2.10	0.65
1:A:99:GLU:C	1:A:101:GLY:H	2.02	0.65
1:A:182:ILE:O	1:A:182:ILE:HD13	1.96	0.65
1:B:131:ARG:H	1:B:170:TYR:HE2	1.44	0.65
1:B:183:SER:O	1:B:187:SER:CA	2.42	0.65
1:B:350:VAL:HG12	1:B:352:GLY:H	1.61	0.65
1:C:154:ILE:HG22	1:C:155:ASN:H	1.62	0.65
1:C:205:SER:C	1:C:207:ASP:H	2.05	0.65
1:D:234:LEU:HD23	1:D:235:THR:H	1.59	0.65
1:F:122:GLU:OE2	1:F:145:LYS:HE2	1.97	0.65
1:F:171:TYR:HD1	1:F:171:TYR:O	1.79	0.65
2:Q:44:THR:C	2:Q:46:ALA:H	2.03	0.65
2:S:48:LEU:HD23	2:S:51:MET:CE	2.26	0.65
1:A:107:THR:CG2	1:A:115:LYS:HE2	2.26	0.65
1:A:480:ASN:HD21	1:A:483:GLY:H	1.45	0.65
1:A:695:LYS:HG3	2:O:19:PHE:CE1	2.32	0.65
1:B:128:MET:HE1	1:B:235:THR:CB	2.27	0.65
1:B:186:LYS:HE3	1:B:234:LEU:CD1	2.25	0.65
1:B:718:ARG:O	1:B:722:ILE:HG13	1.97	0.65
1:C:629:ASN:ND2	1:C:631:SER:H	1.95	0.65
1:D:115:LYS:HZ3	1:D:115:LYS:HA	1.62	0.65
1:D:715:GLU:HA	1:D:718:ARG:NH1	2.10	0.65
1:E:128:MET:HE1	1:E:235:THR:CB	2.27	0.65
1:E:217:LYS:NZ	1:E:236:GLU:HB2	2.12	0.65
1:E:372:LYS:HG3	1:E:373:LYS:N	2.11	0.65
1:E:550:SER:HG	1:E:552:TRP:CD1	2.14	0.65
1:F:217:LYS:NZ	1:F:236:GLU:HB2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:712:PHE:HB3	1:F:716:LYS:HG2	1.77	0.65
1:A:115:LYS:HB2	1:A:118:GLN:HG2	1.79	0.65
1:A:372:LYS:HG3	1:A:373:LYS:N	2.12	0.65
1:A:372:LYS:O	1:A:374:HIS:N	2.29	0.65
1:B:372:LYS:HG3	1:B:373:LYS:N	2.12	0.65
1:B:794:GLN:HE22	1:B:795:LYS:HG3	1.61	0.65
1:C:104:ILE:HG23	1:C:152:LEU:HD23	1.79	0.65
1:C:630:ARG:HG3	1:C:630:ARG:NH1	2.11	0.65
1:D:182:ILE:O	1:D:182:ILE:HD13	1.97	0.65
1:E:712:PHE:HB3	1:E:716:LYS:HG2	1.77	0.65
1:F:107:THR:CG2	1:F:115:LYS:HE2	2.27	0.65
1:F:122:GLU:O	1:F:146:LYS:HE2	1.97	0.65
1:F:182:ILE:O	1:F:182:ILE:HD13	1.96	0.65
1:F:301:ALA:C	1:F:303:LYS:N	2.52	0.65
1:F:424:LYS:HZ2	1:F:424:LYS:HB3	1.60	0.65
1:A:205:SER:C	1:A:207:ASP:H	2.05	0.65
1:A:639:ASN:HD22	1:A:639:ASN:N	1.95	0.65
1:B:184:LYS:HA	1:B:187:SER:CB	2.27	0.65
1:B:275:GLY:HA2	1:B:278:LYS:CE	2.27	0.65
1:B:630:ARG:HH11	1:B:630:ARG:HG3	1.62	0.65
1:B:630:ARG:CZ	2:P:83:GLU:HG2	2.27	0.65
1:D:311:HIS:O	1:D:314:ALA:HB3	1.96	0.65
1:E:311:HIS:O	1:E:314:ALA:HB3	1.97	0.65
1:E:521:ASN:HB3	1:E:524:GLU:HB3	1.79	0.65
1:E:694:VAL:HG22	2:S:18:LEU:HD21	1.78	0.65
1:F:326:ILE:HG22	1:F:328:PHE:HE1	1.59	0.65
1:F:376:GLN:O	1:F:380:VAL:HG23	1.96	0.65
2:P:44:THR:C	2:P:46:ALA:H	2.04	0.65
2:Q:4:LEU:HA	2:Q:8:GLN:HE21	1.62	0.65
2:Q:22:ASP:OD2	2:Q:24:ASP:OD1	2.14	0.65
2:S:4:LEU:HA	2:S:8:GLN:HE21	1.62	0.65
1:A:327:LEU:HG	1:A:595:ILE:HG12	1.80	0.64
1:A:718:ARG:O	1:A:722:ILE:HG13	1.96	0.64
1:B:478:ALA:HB1	1:B:486:LYS:C	2.22	0.64
1:C:182:ILE:O	1:C:182:ILE:HD13	1.97	0.64
1:D:88:LYS:NZ	1:D:172:GLU:OE2	2.29	0.64
1:D:122:GLU:O	1:D:146:LYS:HE2	1.97	0.64
1:D:397:GLU:O	1:D:479:LYS:HA	1.96	0.64
1:E:183:SER:O	1:E:187:SER:CA	2.43	0.64
1:E:205:SER:C	1:E:207:ASP:H	2.05	0.64
1:F:372:LYS:O	1:F:374:HIS:N	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:9:ILE:HD12	2:S:69:LEU:HD22	1.79	0.64
2:T:22:ASP:OD2	2:T:24:ASP:OD1	2.15	0.64
1:A:275:GLY:HA2	1:A:278:LYS:CE	2.27	0.64
1:A:700:TYR:HD1	1:A:728:ALA:N	1.96	0.64
1:C:236:GLU:HA	1:C:239:HIS:CD2	2.32	0.64
1:C:794:GLN:HE22	1:C:795:LYS:HG3	1.61	0.64
1:D:179:LEU:HG	1:D:180:ASP:H	1.62	0.64
1:D:343:VAL:HG13	1:D:487:PRO:HG2	1.78	0.64
1:D:708:ALA:O	1:D:710:HIS:N	2.30	0.64
1:E:376:GLN:O	1:E:380:VAL:HG23	1.96	0.64
1:F:567:THR:CG2	1:F:568:GLY:N	2.60	0.64
1:F:700:TYR:HD1	1:F:728:ALA:N	1.95	0.64
2:P:48:LEU:HA	2:P:51:MET:CE	2.12	0.64
2:Q:138:TYR:O	2:Q:142:VAL:HG23	1.97	0.64
1:A:122:GLU:O	1:A:146:LYS:HE2	1.97	0.64
1:A:661:ALA:O	1:A:665:LYS:HB2	1.96	0.64
1:A:794:GLN:HE22	1:A:795:LYS:HG3	1.61	0.64
1:B:397:GLU:O	1:B:479:LYS:HA	1.96	0.64
1:B:472:ARG:HB3	1:B:472:ARG:NH1	2.13	0.64
1:C:71:PHE:CD2	1:C:73:ASN:HB2	2.33	0.64
1:C:186:LYS:HE3	1:C:234:LEU:CD1	2.27	0.64
1:C:254:ARG:HD2	1:C:254:ARG:N	2.09	0.64
1:C:521:ASN:HB3	1:C:524:GLU:HB3	1.80	0.64
1:D:275:GLY:HA2	1:D:278:LYS:CE	2.27	0.64
1:D:301:ALA:C	1:D:303:LYS:N	2.52	0.64
1:D:302:LEU:HD22	1:D:602:PHE:HE1	1.61	0.64
1:F:88:LYS:NZ	1:F:172:GLU:OE2	2.30	0.64
1:F:89:ILE:HD13	1:F:175:LYS:HE2	1.78	0.64
1:F:175:LYS:HB2	1:F:175:LYS:HZ2	1.61	0.64
1:F:270:LYS:O	1:F:273:LYS:HB2	1.96	0.64
1:F:311:HIS:O	1:F:314:ALA:HB3	1.97	0.64
1:F:540:ARG:HD2	1:F:582:ASP:OD1	1.97	0.64
2:P:12:PHE:CD1	2:P:72:MET:HG3	2.31	0.64
2:P:42:ASN:N	2:P:43:PRO:HD2	2.10	0.64
2:Q:48:LEU:HD23	2:Q:51:MET:CE	2.28	0.64
2:Q:115:LYS:HA	2:Q:115:LYS:HZ3	1.61	0.64
2:R:48:LEU:HD23	2:R:51:MET:CE	2.27	0.64
1:B:78:LYS:HG3	1:B:79:ILE:N	2.11	0.64
1:B:540:ARG:HD2	1:B:582:ASP:OD1	1.97	0.64
1:B:715:GLU:HA	1:B:718:ARG:NH1	2.11	0.64
1:C:131:ARG:H	1:C:170:TYR:HE2	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:182:ILE:HD13	1:E:182:ILE:O	1.97	0.64
1:E:270:LYS:O	1:E:273:LYS:HB2	1.96	0.64
2:P:9:ILE:HD12	2:P:69:LEU:HD22	1.79	0.64
2:S:5:THR:HG23	2:S:8:GLN:HB2	1.79	0.64
2:T:12:PHE:CD1	2:T:72:MET:HG3	2.32	0.64
1:A:128:MET:HE1	1:A:235:THR:CB	2.27	0.64
1:A:217:LYS:NZ	1:A:236:GLU:HB2	2.12	0.64
1:A:424:LYS:HZ2	1:A:424:LYS:HB3	1.61	0.64
1:A:594:PHE:HE2	1:A:596:ILE:HD11	1.62	0.64
1:A:692:GLU:OE1	2:O:21:LYS:NZ	2.30	0.64
1:B:357:TRP:CZ3	1:B:439:ASN:HB2	2.33	0.64
1:C:234:LEU:HD23	1:C:235:THR:H	1.61	0.64
1:C:372:LYS:O	1:C:374:HIS:N	2.30	0.64
1:C:376:GLN:O	1:C:380:VAL:HG23	1.98	0.64
1:C:715:GLU:HA	1:C:718:ARG:NH1	2.11	0.64
1:C:750:GLN:O	1:C:753:LYS:HB2	1.96	0.64
1:D:111:LEU:HD23	1:D:155:ASN:HD21	1.63	0.64
1:D:217:LYS:NZ	1:D:236:GLU:HB2	2.11	0.64
1:D:517:VAL:HG23	1:D:518:ASN:HD22	1.61	0.64
1:E:88:LYS:NZ	1:E:172:GLU:OE2	2.30	0.64
1:E:700:TYR:HD1	1:E:728:ALA:N	1.96	0.64
1:F:372:LYS:HG3	1:F:373:LYS:N	2.12	0.64
1:F:397:GLU:O	1:F:479:LYS:HA	1.97	0.64
2:S:12:PHE:CD1	2:S:72:MET:HG3	2.32	0.64
1:A:376:GLN:O	1:A:380:VAL:HG23	1.97	0.64
1:A:435:LEU:HG	1:A:446:ILE:HG22	1.80	0.64
1:A:694:VAL:HG23	2:O:18:LEU:HD11	1.78	0.64
1:B:712:PHE:HB3	1:B:716:LYS:HG2	1.78	0.64
1:C:372:LYS:HG3	1:C:373:LYS:N	2.12	0.64
1:D:480:ASN:HD21	1:D:483:GLY:H	1.45	0.64
1:D:540:ARG:HD2	1:D:582:ASP:OD1	1.97	0.64
1:D:712:PHE:HB3	1:D:716:LYS:HG2	1.79	0.64
1:E:326:ILE:HG22	1:E:328:PHE:HE1	1.58	0.64
1:E:357:TRP:CZ3	1:E:439:ASN:HB2	2.33	0.64
1:E:518:ASN:HD22	1:E:518:ASN:N	1.94	0.64
2:O:87:GLU:O	2:O:91:VAL:HG23	1.98	0.64
2:Q:48:LEU:HD23	2:Q:51:MET:HE1	1.79	0.64
2:S:76:MET:O	2:S:77:LYS:HD2	1.98	0.64
1:A:318:ILE:HG23	1:A:322:LEU:HD12	1.78	0.64
1:B:205:SER:C	1:B:207:ASP:H	2.06	0.64
1:E:318:ILE:HG23	1:E:322:LEU:HD12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:750:GLN:O	1:E:753:LYS:HB2	1.97	0.64
1:F:115:LYS:HZ2	1:F:116:GLU:N	1.84	0.64
1:F:184:LYS:HA	1:F:187:SER:CB	2.27	0.64
1:F:318:ILE:HG23	1:F:322:LEU:HD12	1.80	0.64
2:R:48:LEU:HA	2:R:51:MET:CE	2.14	0.64
1:A:122:GLU:OE2	1:A:145:LYS:HE2	1.96	0.64
1:B:115:LYS:HG3	1:B:153:ILE:HD13	1.79	0.64
1:C:154:ILE:HG21	1:C:171:TYR:CE2	2.33	0.64
1:E:186:LYS:HE3	1:E:234:LEU:CD1	2.24	0.64
1:E:719:LYS:HG2	1:E:797:ILE:CD1	2.28	0.64
1:F:152:LEU:HD21	1:F:171:TYR:CE1	2.33	0.64
1:F:236:GLU:HA	1:F:239:HIS:CD2	2.33	0.64
1:F:794:GLN:HE22	1:F:795:LYS:HG3	1.61	0.64
2:O:4:LEU:HA	2:O:8:GLN:HE21	1.62	0.64
2:O:16:PHE:CE2	2:O:27:ILE:CD1	2.81	0.64
2:P:87:GLU:O	2:P:91:VAL:HG23	1.98	0.64
2:Q:24:ASP:CB	2:Q:26:THR:HG23	2.24	0.64
2:T:48:LEU:HD23	2:T:51:MET:HE1	1.79	0.64
1:A:540:ARG:HD2	1:A:582:ASP:OD1	1.97	0.64
1:B:88:LYS:NZ	1:B:172:GLU:OE2	2.31	0.64
1:B:122:GLU:OE2	1:B:145:LYS:HE2	1.98	0.64
1:C:302:LEU:HB2	1:C:602:PHE:HD1	1.63	0.64
1:C:435:LEU:HG	1:C:446:ILE:HG22	1.79	0.64
1:C:700:TYR:HD1	1:C:728:ALA:N	1.96	0.64
1:D:184:LYS:HA	1:D:187:SER:CB	2.27	0.64
1:D:220:LEU:HD11	1:D:223:LYS:HB2	1.80	0.64
1:F:478:ALA:HB1	1:F:486:LYS:C	2.23	0.64
2:P:4:LEU:HA	2:P:8:GLN:HE21	1.62	0.64
2:P:48:LEU:HD23	2:P:51:MET:CE	2.27	0.64
2:R:4:LEU:HA	2:R:8:GLN:HE21	1.62	0.64
2:S:124:MET:O	2:S:125:ILE:C	2.40	0.64
1:B:111:LEU:HD23	1:B:155:ASN:HD21	1.63	0.64
1:B:435:LEU:HG	1:B:446:ILE:HG22	1.79	0.64
1:C:88:LYS:NZ	1:C:172:GLU:OE2	2.30	0.64
1:C:518:ASN:HD22	1:C:518:ASN:N	1.95	0.64
1:E:115:LYS:HB2	1:E:118:GLN:HG2	1.80	0.64
1:F:480:ASN:HD21	1:F:483:GLY:N	1.96	0.64
2:P:5:THR:HG23	2:P:8:GLN:HB2	1.79	0.64
1:A:104:ILE:HG23	1:A:152:LEU:HD23	1.79	0.63
1:A:517:VAL:HG23	1:A:518:ASN:HD22	1.62	0.63
1:B:424:LYS:HB3	1:B:424:LYS:HZ2	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:311:HIS:O	1:C:314:ALA:HB3	1.97	0.63
1:C:424:LYS:HZ2	1:C:424:LYS:HB3	1.62	0.63
1:C:515:LYS:HB3	1:C:515:LYS:HZ2	1.63	0.63
1:C:688:PHE:C	1:C:688:PHE:CD2	2.75	0.63
1:D:186:LYS:HE3	1:D:234:LEU:CD1	2.25	0.63
1:D:236:GLU:HA	1:D:239:HIS:CD2	2.33	0.63
1:D:472:ARG:HB3	1:D:472:ARG:NH1	2.13	0.63
1:D:594:PHE:HE2	1:D:596:ILE:HD11	1.63	0.63
1:E:478:ALA:HB1	1:E:486:LYS:C	2.23	0.63
1:E:594:PHE:HE2	1:E:596:ILE:HD11	1.63	0.63
1:E:794:GLN:HE22	1:E:795:LYS:HG3	1.63	0.63
1:F:254:ARG:HD2	1:F:254:ARG:N	2.10	0.63
1:F:301:ALA:O	1:F:303:LYS:N	2.31	0.63
1:F:350:VAL:HG12	1:F:352:GLY:H	1.62	0.63
1:F:550:SER:H	1:F:553:GLN:HE21	1.44	0.63
1:F:581:GLN:NE2	1:F:581:GLN:HA	2.12	0.63
2:S:138:TYR:O	2:S:142:VAL:HG23	1.98	0.63
1:A:581:GLN:HE21	1:A:629:ASN:N	1.97	0.63
1:A:625:LEU:HD12	1:A:626:TYR:N	2.13	0.63
1:C:318:ILE:HG23	1:C:322:LEU:HD12	1.80	0.63
1:C:694:VAL:HG22	2:Q:18:LEU:HD21	1.80	0.63
1:D:173:ILE:HG23	1:D:174:GLY:H	1.63	0.63
1:D:350:VAL:HG12	1:D:352:GLY:H	1.63	0.63
1:E:104:ILE:HG23	1:E:152:LEU:HD23	1.78	0.63
1:E:718:ARG:O	1:E:722:ILE:HG13	1.99	0.63
1:F:175:LYS:HB2	1:F:175:LYS:NZ	2.13	0.63
1:F:205:SER:C	1:F:207:ASP:H	2.04	0.63
1:F:302:LEU:HD22	1:F:602:PHE:HE1	1.61	0.63
1:F:731:GLU:O	1:F:734:ASN:HB3	1.97	0.63
2:O:12:PHE:CE1	2:O:72:MET:HG3	2.33	0.63
2:R:22:ASP:OD2	2:R:24:ASP:OD1	2.17	0.63
2:R:87:GLU:O	2:R:91:VAL:HG23	1.98	0.63
1:A:184:LYS:HA	1:A:187:SER:CB	2.27	0.63
1:A:236:GLU:HA	1:A:239:HIS:CD2	2.33	0.63
1:A:357:TRP:CZ3	1:A:439:ASN:HB2	2.33	0.63
1:B:688:PHE:C	1:B:688:PHE:CD2	2.77	0.63
1:E:472:ARG:HB3	1:E:472:ARG:NH1	2.13	0.63
1:F:589:LYS:HE3	1:F:608:TRP:CG	2.34	0.63
1:F:688:PHE:C	1:F:688:PHE:CD2	2.76	0.63
2:O:5:THR:HG23	2:O:8:GLN:HB2	1.79	0.63
2:O:22:ASP:OD2	2:O:24:ASP:OD1	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:124:MET:O	2:Q:125:ILE:C	2.39	0.63
2:S:44:THR:C	2:S:46:ALA:H	2.04	0.63
1:A:217:LYS:HZ1	1:A:233:ASN:HB3	1.63	0.63
1:A:220:LEU:HD11	1:A:223:LYS:HB2	1.80	0.63
1:A:302:LEU:HD22	1:A:602:PHE:HE1	1.63	0.63
1:B:540:ARG:NH2	2:P:87:GLU:OE1	2.32	0.63
1:B:581:GLN:NE2	1:B:581:GLN:HA	2.12	0.63
1:C:472:ARG:HB3	1:C:472:ARG:NH1	2.12	0.63
1:D:173:ILE:HG23	1:D:174:GLY:N	2.13	0.63
1:E:350:VAL:HG12	1:E:352:GLY:H	1.63	0.63
1:E:424:LYS:HZ2	1:E:424:LYS:HB3	1.61	0.63
1:E:517:VAL:HG23	1:E:518:ASN:HD22	1.62	0.63
1:E:625:LEU:HD12	1:E:626:TYR:N	2.13	0.63
1:E:688:PHE:C	1:E:688:PHE:CD2	2.76	0.63
2:O:76:MET:O	2:O:77:LYS:HD2	1.98	0.63
2:R:44:THR:C	2:R:46:ALA:H	2.03	0.63
1:A:88:LYS:NZ	1:A:172:GLU:OE2	2.31	0.63
1:B:104:ILE:HG23	1:B:152:LEU:HD23	1.78	0.63
1:C:122:GLU:OE2	1:C:145:LYS:HE2	1.99	0.63
1:E:236:GLU:HA	1:E:239:HIS:CD2	2.33	0.63
1:F:517:VAL:HG23	1:F:518:ASN:HD22	1.62	0.63
2:O:106:ARG:O	2:O:110:THR:HG23	1.98	0.63
2:P:48:LEU:HD23	2:P:51:MET:HE1	1.80	0.63
2:T:76:MET:O	2:T:77:LYS:HD2	1.99	0.63
1:A:518:ASN:HD22	1:A:518:ASN:N	1.95	0.63
1:A:521:ASN:HB3	1:A:524:GLU:HB3	1.79	0.63
1:A:540:ARG:NH2	2:O:87:GLU:OE1	2.32	0.63
1:B:89:ILE:HD13	1:B:175:LYS:HE2	1.80	0.63
1:B:301:ALA:O	1:B:303:LYS:N	2.32	0.63
1:B:480:ASN:HD21	1:B:483:GLY:H	1.47	0.63
1:B:521:ASN:HB3	1:B:524:GLU:HB3	1.80	0.63
1:B:625:LEU:HD12	1:B:626:TYR:N	2.13	0.63
1:B:708:ALA:O	1:B:710:HIS:N	2.32	0.63
1:C:516:VAL:HG21	1:C:532:LEU:HD11	1.81	0.63
1:C:617:LYS:NZ	1:C:618:ASN:ND2	2.45	0.63
1:D:90:PRO:HG2	1:D:93:VAL:CB	2.26	0.63
1:D:115:LYS:HB2	1:D:118:GLN:HG2	1.81	0.63
1:D:184:LYS:CE	1:D:191:GLU:HB2	2.29	0.63
1:D:326:ILE:HG22	1:D:328:PHE:HE1	1.62	0.63
1:D:694:VAL:HG22	2:R:18:LEU:HD21	1.81	0.63
1:D:700:TYR:HD1	1:D:728:ALA:N	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:9:ILE:HD12	2:O:69:LEU:HD22	1.81	0.63
2:Q:12:PHE:CE1	2:Q:72:MET:HG3	2.34	0.63
1:A:688:PHE:C	1:A:688:PHE:CD2	2.77	0.63
1:A:708:ALA:O	1:A:710:HIS:N	2.32	0.63
1:B:518:ASN:HD22	1:B:518:ASN:N	1.95	0.63
1:C:122:GLU:O	1:C:146:LYS:HE2	1.99	0.63
1:C:175:LYS:HB2	1:C:175:LYS:NZ	2.13	0.63
1:D:357:TRP:CZ3	1:D:439:ASN:HB2	2.33	0.63
1:E:179:LEU:HG	1:E:180:ASP:H	1.62	0.63
1:E:589:LYS:HE3	1:E:608:TRP:CG	2.34	0.63
1:F:472:ARG:HB3	1:F:472:ARG:NH1	2.12	0.63
1:F:581:GLN:HE21	1:F:629:ASN:N	1.95	0.63
1:F:695:LYS:HG3	2:T:19:PHE:CE1	2.33	0.63
2:Q:9:ILE:HD12	2:Q:69:LEU:HD22	1.79	0.63
1:A:602:PHE:C	1:A:603:ILE:HG13	2.24	0.63
1:B:311:HIS:O	1:B:314:ALA:HB3	1.99	0.63
1:C:184:LYS:HA	1:C:187:SER:CB	2.27	0.63
1:D:154:ILE:HG21	1:D:171:TYR:CE2	2.33	0.63
1:E:255:THR:O	1:E:259:LEU:N	2.28	0.63
1:E:326:ILE:CG2	1:E:328:PHE:CE1	2.82	0.63
1:E:550:SER:H	1:E:553:GLN:HE21	1.46	0.63
1:F:521:ASN:HB3	1:F:524:GLU:HB3	1.81	0.63
1:F:594:PHE:HE2	1:F:596:ILE:HD11	1.64	0.63
1:F:629:ASN:ND2	1:F:631:SER:H	1.97	0.63
1:F:630:ARG:HG3	1:F:630:ARG:NH1	2.12	0.63
2:S:12:PHE:CE1	2:S:72:MET:HG3	2.34	0.63
1:B:517:VAL:HG23	1:B:518:ASN:HD22	1.62	0.63
1:C:173:ILE:HG23	1:C:174:GLY:N	2.14	0.63
1:E:581:GLN:HE21	1:E:629:ASN:N	1.96	0.63
1:F:719:LYS:HG2	1:F:797:ILE:CD1	2.29	0.63
2:O:48:LEU:HD23	2:O:51:MET:HE1	1.81	0.63
2:R:9:ILE:HD12	2:R:69:LEU:HD22	1.80	0.63
2:R:76:MET:O	2:R:77:LYS:HD2	1.98	0.63
2:T:9:ILE:HD12	2:T:69:LEU:HD22	1.80	0.63
1:A:111:LEU:HD23	1:A:155:ASN:HD21	1.64	0.62
1:B:76:LEU:O	1:B:79:ILE:N	2.32	0.62
1:B:376:GLN:O	1:B:380:VAL:HG23	1.98	0.62
1:B:629:ASN:ND2	1:B:631:SER:H	1.96	0.62
1:D:521:ASN:HB3	1:D:524:GLU:HB3	1.81	0.62
1:E:76:LEU:O	1:E:79:ILE:N	2.32	0.62
1:E:173:ILE:HG23	1:E:174:GLY:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:629:ASN:ND2	1:E:631:SER:H	1.97	0.62
1:F:302:LEU:HB2	1:F:602:PHE:HD1	1.64	0.62
2:R:48:LEU:HD23	2:R:51:MET:HE1	1.80	0.62
1:A:131:ARG:H	1:A:170:TYR:HE2	1.46	0.62
1:A:175:LYS:HB2	1:A:175:LYS:NZ	2.13	0.62
1:B:236:GLU:HA	1:B:239:HIS:CD2	2.34	0.62
1:C:111:LEU:HD23	1:C:155:ASN:HD21	1.65	0.62
1:C:220:LEU:HD11	1:C:223:LYS:HB2	1.81	0.62
1:C:708:ALA:O	1:C:710:HIS:N	2.32	0.62
1:D:617:LYS:NZ	1:D:618:ASN:ND2	2.43	0.62
1:F:435:LEU:HG	1:F:446:ILE:HG22	1.80	0.62
1:F:661:ALA:O	1:F:665:LYS:HB2	1.99	0.62
2:O:48:LEU:HD23	2:O:51:MET:CE	2.28	0.62
2:O:93:ASP:OD1	2:O:97:ASN:ND2	2.32	0.62
1:A:302:LEU:HB2	1:A:602:PHE:HD1	1.64	0.62
1:C:128:MET:HE1	1:C:235:THR:HB	1.82	0.62
1:C:217:LYS:NZ	1:C:236:GLU:HB2	2.13	0.62
1:D:301:ALA:O	1:D:303:LYS:N	2.32	0.62
1:D:435:LEU:HG	1:D:446:ILE:HG22	1.81	0.62
1:D:480:ASN:HD21	1:D:483:GLY:N	1.98	0.62
1:F:625:LEU:HD12	1:F:626:TYR:N	2.14	0.62
2:R:24:ASP:CB	2:R:26:THR:HG23	2.26	0.62
1:A:173:ILE:HG23	1:A:174:GLY:H	1.64	0.62
1:A:311:HIS:O	1:A:314:ALA:HB3	1.98	0.62
1:B:327:LEU:HG	1:B:595:ILE:HG12	1.81	0.62
1:B:617:LYS:NZ	1:B:618:ASN:ND2	2.45	0.62
1:C:255:THR:O	1:C:259:LEU:N	2.28	0.62
1:C:540:ARG:HD2	1:C:582:ASP:OD1	1.99	0.62
1:D:478:ALA:HB1	1:D:486:LYS:C	2.24	0.62
1:D:661:ALA:O	1:D:665:LYS:HB2	1.98	0.62
1:E:435:LEU:HG	1:E:446:ILE:HG22	1.80	0.62
1:E:516:VAL:HG21	1:E:532:LEU:HD11	1.81	0.62
1:E:708:ALA:O	1:E:710:HIS:N	2.32	0.62
1:F:179:LEU:HG	1:F:180:ASP:H	1.62	0.62
1:F:540:ARG:NH2	2:T:87:GLU:OE1	2.32	0.62
1:F:767:GLN:CG	1:F:768:LYS:HG2	2.24	0.62
2:R:138:TYR:O	2:R:142:VAL:HG23	2.00	0.62
2:S:22:ASP:OD2	2:S:24:ASP:OD1	2.18	0.62
1:C:115:LYS:HZ2	1:C:116:GLU:N	1.84	0.62
1:C:350:VAL:HG12	1:C:352:GLY:H	1.64	0.62
1:D:254:ARG:HD2	1:D:254:ARG:N	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:357:TRP:CZ3	1:F:439:ASN:HB2	2.33	0.62
2:O:48:LEU:HA	2:O:51:MET:CE	2.14	0.62
2:P:138:TYR:O	2:P:142:VAL:HG23	2.00	0.62
2:T:24:ASP:CB	2:T:26:THR:HG23	2.24	0.62
2:T:106:ARG:O	2:T:110:THR:HG23	1.99	0.62
1:A:731:GLU:O	1:A:734:ASN:HB3	2.00	0.62
1:B:220:LEU:HD11	1:B:223:LYS:HB2	1.82	0.62
1:C:152:LEU:HD21	1:C:171:TYR:CE1	2.35	0.62
1:D:122:GLU:OE2	1:D:145:LYS:HE2	1.99	0.62
1:D:318:ILE:HG23	1:D:322:LEU:HD12	1.81	0.62
1:D:731:GLU:O	1:D:734:ASN:HB3	2.00	0.62
1:E:220:LEU:HD11	1:E:223:LYS:HB2	1.81	0.62
1:E:540:ARG:NH2	2:S:87:GLU:OE1	2.33	0.62
1:E:661:ALA:O	1:E:665:LYS:HB2	1.98	0.62
2:Q:48:LEU:HA	2:Q:51:MET:CE	2.13	0.62
2:S:106:ARG:O	2:S:110:THR:HG23	1.98	0.62
2:T:44:THR:C	2:T:46:ALA:H	2.06	0.62
1:A:478:ALA:HB1	1:A:486:LYS:C	2.23	0.62
1:C:357:TRP:CZ3	1:C:439:ASN:HB2	2.33	0.62
1:C:540:ARG:NH2	2:Q:87:GLU:OE1	2.33	0.62
1:C:602:PHE:C	1:C:603:ILE:HG13	2.24	0.62
1:C:731:GLU:O	1:C:734:ASN:HB3	1.99	0.62
1:D:76:LEU:O	1:D:79:ILE:N	2.32	0.62
1:D:115:LYS:NZ	1:D:116:GLU:H	1.88	0.62
1:D:131:ARG:H	1:D:170:TYR:HE2	1.47	0.62
1:D:302:LEU:HB2	1:D:602:PHE:HD1	1.65	0.62
1:D:540:ARG:NH2	2:R:87:GLU:OE1	2.33	0.62
1:D:589:LYS:HE3	1:D:608:TRP:CG	2.35	0.62
1:D:636:ALA:O	1:D:640:LYS:HA	2.00	0.62
1:F:220:LEU:HD11	1:F:223:LYS:HB2	1.81	0.62
1:F:694:VAL:HG22	2:T:18:LEU:HD21	1.80	0.62
2:P:22:ASP:OD2	2:P:24:ASP:OD1	2.17	0.62
2:P:42:ASN:N	2:P:43:PRO:CD	2.63	0.62
2:P:93:ASP:OD1	2:P:97:ASN:ND2	2.32	0.62
2:Q:76:MET:O	2:Q:77:LYS:HD2	2.00	0.62
1:B:90:PRO:HG2	1:B:93:VAL:CB	2.24	0.62
1:B:122:GLU:O	1:B:146:LYS:HE2	1.99	0.62
1:B:175:LYS:HB2	1:B:175:LYS:NZ	2.15	0.62
1:B:589:LYS:HE3	1:B:608:TRP:CG	2.34	0.62
1:B:694:VAL:HG22	2:P:18:LEU:HD21	1.80	0.62
1:B:719:LYS:HG2	1:B:797:ILE:CD1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:478:ALA:HB1	1:C:486:LYS:C	2.25	0.62
1:C:767:GLN:CG	1:C:768:LYS:HG2	2.24	0.62
1:E:107:THR:CG2	1:E:115:LYS:HE2	2.27	0.62
1:E:327:LEU:HG	1:E:595:ILE:HG12	1.80	0.62
1:F:76:LEU:O	1:F:79:ILE:N	2.32	0.62
1:F:184:LYS:CE	1:F:191:GLU:HB2	2.29	0.62
1:F:255:THR:O	1:F:259:LEU:N	2.27	0.62
2:O:42:ASN:N	2:O:43:PRO:HD2	2.13	0.62
2:P:76:MET:O	2:P:77:LYS:HD2	1.99	0.62
2:S:72:MET:O	2:S:74:ARG:N	2.32	0.62
1:A:480:ASN:HD21	1:A:483:GLY:N	1.98	0.62
1:B:279:ILE:HG22	1:B:283:LEU:CD1	2.30	0.62
1:B:480:ASN:HD21	1:B:483:GLY:N	1.98	0.62
1:C:581:GLN:HE21	1:C:629:ASN:N	1.98	0.62
1:D:719:LYS:HG2	1:D:797:ILE:CD1	2.30	0.62
1:E:184:LYS:CE	1:E:191:GLU:HB2	2.30	0.62
1:E:629:ASN:HD21	1:E:631:SER:CB	2.10	0.62
1:E:764:LEU:C	1:E:766:HIS:N	2.53	0.62
1:F:105:TYR:HB2	1:F:153:ILE:HG12	1.82	0.62
1:F:111:LEU:HD23	1:F:155:ASN:HD21	1.65	0.62
1:F:617:LYS:NZ	1:F:618:ASN:ND2	2.45	0.62
2:T:12:PHE:CE1	2:T:72:MET:HG3	2.35	0.62
1:B:173:ILE:HG23	1:B:174:GLY:N	2.14	0.62
1:B:318:ILE:HG23	1:B:322:LEU:HD12	1.80	0.62
1:B:728:ALA:O	1:B:732:ILE:HG12	2.00	0.62
1:B:731:GLU:O	1:B:734:ASN:HB3	2.00	0.62
1:D:154:ILE:HG22	1:D:155:ASN:H	1.64	0.62
1:D:688:PHE:C	1:D:688:PHE:CD2	2.77	0.62
1:E:154:ILE:HG22	1:E:155:ASN:H	1.65	0.62
1:E:513:TRP:CZ2	2:S:114:GLU:HB2	2.35	0.62
1:E:731:GLU:O	1:E:734:ASN:HB3	1.99	0.62
2:Q:87:GLU:O	2:Q:91:VAL:HG23	1.99	0.62
2:R:12:PHE:CE1	2:R:72:MET:HG3	2.34	0.62
1:A:589:LYS:HE3	1:A:608:TRP:CG	2.35	0.61
1:B:173:ILE:HG23	1:B:174:GLY:H	1.64	0.61
1:C:89:ILE:HD13	1:C:175:LYS:HE2	1.81	0.61
1:C:173:ILE:HG23	1:C:174:GLY:H	1.63	0.61
1:C:719:LYS:HG2	1:C:797:ILE:CD1	2.30	0.61
1:E:480:ASN:HD21	1:E:483:GLY:H	1.47	0.61
1:F:516:VAL:HG21	1:F:532:LEU:HD11	1.82	0.61
1:F:518:ASN:HD22	1:F:518:ASN:N	1.96	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:718:ARG:O	1:F:722:ILE:HG13	2.00	0.61
2:S:48:LEU:HD23	2:S:51:MET:HE1	1.79	0.61
1:A:350:VAL:HG12	1:A:352:GLY:H	1.63	0.61
1:C:76:LEU:O	1:C:79:ILE:N	2.32	0.61
1:C:279:ILE:HG22	1:C:283:LEU:CD1	2.31	0.61
1:C:718:ARG:O	1:C:722:ILE:HG13	2.00	0.61
1:E:111:LEU:HD23	1:E:155:ASN:HD21	1.65	0.61
1:E:173:ILE:HG23	1:E:174:GLY:H	1.64	0.61
2:P:12:PHE:CE1	2:P:72:MET:HG3	2.34	0.61
2:S:93:ASP:OD1	2:S:97:ASN:ND2	2.32	0.61
1:A:301:ALA:O	1:A:303:LYS:N	2.33	0.61
1:B:630:ARG:HG3	1:B:630:ARG:NH1	2.14	0.61
1:E:175:LYS:NZ	1:E:175:LYS:HB2	2.15	0.61
1:F:275:GLY:HA2	1:F:278:LYS:CE	2.29	0.61
1:F:794:GLN:NE2	1:F:795:LYS:HG3	2.16	0.61
2:O:13:LYS:O	2:O:15:ALA:N	2.31	0.61
2:T:42:ASN:N	2:T:43:PRO:CD	2.62	0.61
1:A:89:ILE:HD13	1:A:175:LYS:HE2	1.82	0.61
1:B:602:PHE:C	1:B:603:ILE:HG13	2.26	0.61
1:C:589:LYS:HE3	1:C:608:TRP:CG	2.35	0.61
1:A:694:VAL:HG22	2:O:18:LEU:HD21	1.82	0.61
1:B:191:GLU:O	1:B:194:ASN:N	2.34	0.61
1:B:567:THR:HG23	1:B:568:GLY:H	1.66	0.61
1:C:597:ASN:OD1	1:C:599:GLU:HB2	2.01	0.61
1:D:115:LYS:HZ2	1:D:116:GLU:N	1.87	0.61
1:D:527:LYS:O	1:D:528:GLY:C	2.44	0.61
1:D:700:TYR:HD1	1:D:728:ALA:HA	1.65	0.61
1:F:602:PHE:C	1:F:603:ILE:HG13	2.25	0.61
2:R:106:ARG:O	2:R:110:THR:HG23	2.00	0.61
2:T:87:GLU:O	2:T:91:VAL:HG23	2.00	0.61
1:B:201:ASP:HA	1:B:210:PHE:CE2	2.35	0.61
1:B:326:ILE:CG2	1:B:328:PHE:CE1	2.84	0.61
1:B:372:LYS:O	1:B:374:HIS:N	2.31	0.61
1:C:513:TRP:CZ2	2:Q:114:GLU:HB2	2.35	0.61
1:C:636:ALA:O	1:C:640:LYS:HA	2.01	0.61
1:D:327:LEU:HG	1:D:595:ILE:HG12	1.81	0.61
1:E:296:LEU:HD23	1:E:296:LEU:N	2.15	0.61
1:E:301:ALA:O	1:E:303:LYS:N	2.33	0.61
1:E:597:ASN:OD1	1:E:599:GLU:HB2	2.00	0.61
1:F:115:LYS:HB2	1:F:118:GLN:HG2	1.81	0.61
1:F:173:ILE:HG23	1:F:174:GLY:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:700:TYR:HD1	1:F:728:ALA:HA	1.65	0.61
1:A:719:LYS:HG2	1:A:797:ILE:CD1	2.30	0.61
1:A:767:GLN:CG	1:A:768:LYS:HG2	2.24	0.61
1:C:164:GLU:HG2	1:C:166:SER:HB3	1.83	0.61
1:C:480:ASN:HD21	1:C:483:GLY:N	1.98	0.61
1:D:567:THR:HG23	1:D:568:GLY:H	1.65	0.61
1:D:597:ASN:OD1	1:D:599:GLU:HB2	2.00	0.61
1:D:625:LEU:HD12	1:D:626:TYR:N	2.14	0.61
1:E:728:ALA:O	1:E:732:ILE:HG12	2.00	0.61
1:F:201:ASP:HA	1:F:210:PHE:CE2	2.35	0.61
1:F:513:TRP:CZ2	2:T:114:GLU:HB2	2.36	0.61
1:F:597:ASN:OD1	1:F:599:GLU:HB2	2.00	0.61
2:Q:13:LYS:C	2:Q:15:ALA:H	2.09	0.61
1:A:105:TYR:HB2	1:A:153:ILE:HG12	1.82	0.61
1:A:521:ASN:CB	1:A:524:GLU:HB3	2.31	0.61
1:C:187:SER:C	1:C:188:LEU:O	2.41	0.61
1:C:275:GLY:HA2	1:C:278:LYS:HE3	1.82	0.61
1:C:301:ALA:C	1:C:303:LYS:N	2.54	0.61
1:D:567:THR:CG2	1:D:568:GLY:H	2.14	0.61
1:E:105:TYR:HB2	1:E:153:ILE:HG12	1.82	0.61
1:E:302:LEU:HB2	1:E:602:PHE:HD1	1.64	0.61
1:F:137:PHE:O	1:F:140:ARG:HB2	2.01	0.61
1:F:326:ILE:CG2	1:F:328:PHE:CE1	2.84	0.61
2:O:4:LEU:HA	2:O:8:GLN:NE2	2.16	0.61
2:Q:16:PHE:CE2	2:Q:27:ILE:CD1	2.83	0.61
2:T:4:LEU:CA	2:T:8:GLN:HE21	2.13	0.61
1:A:180:ASP:HA	1:A:183:SER:HB3	1.81	0.61
1:A:187:SER:C	1:A:188:LEU:O	2.41	0.61
1:A:629:ASN:ND2	1:A:631:SER:H	1.98	0.61
1:C:643:ILE:HG22	1:C:644:GLU:N	2.15	0.61
1:C:700:TYR:HD1	1:C:728:ALA:HA	1.65	0.61
1:D:201:ASP:HA	1:D:210:PHE:CE2	2.36	0.61
1:F:699:GLY:O	1:F:703:ASP:N	2.34	0.61
1:F:764:LEU:C	1:F:766:HIS:N	2.51	0.61
2:Q:93:ASP:OD1	2:Q:97:ASN:ND2	2.34	0.61
2:R:42:ASN:N	2:R:43:PRO:CD	2.64	0.61
1:A:115:LYS:HG3	1:A:153:ILE:HD13	1.81	0.61
1:A:154:ILE:HG22	1:A:155:ASN:H	1.65	0.61
1:C:201:ASP:HA	1:C:210:PHE:CE2	2.35	0.61
1:C:288:VAL:HG23	1:C:289:GLU:N	2.15	0.61
1:C:625:LEU:HD12	1:C:626:TYR:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:128:MET:HE1	1:D:235:THR:HB	1.83	0.61
1:D:516:VAL:HG21	1:D:532:LEU:HD11	1.81	0.61
1:D:767:GLN:CG	1:D:768:LYS:HG2	2.24	0.61
1:E:89:ILE:HD13	1:E:175:LYS:HE2	1.83	0.61
1:E:201:ASP:HA	1:E:210:PHE:CE2	2.35	0.61
1:E:567:THR:CG2	1:E:568:GLY:H	2.14	0.61
1:F:639:ASN:HD22	1:F:639:ASN:N	1.95	0.61
2:P:9:ILE:HD12	2:P:69:LEU:CD2	2.31	0.61
2:P:106:ARG:O	2:P:110:THR:HG23	1.99	0.61
2:Q:9:ILE:HD12	2:Q:69:LEU:CD2	2.30	0.61
2:R:4:LEU:HA	2:R:8:GLN:NE2	2.16	0.61
2:T:4:LEU:HA	2:T:8:GLN:NE2	2.15	0.61
2:T:13:LYS:C	2:T:15:ALA:H	2.09	0.61
1:A:173:ILE:HG23	1:A:174:GLY:N	2.15	0.60
1:A:567:THR:HG23	1:A:568:GLY:H	1.66	0.60
1:A:728:ALA:O	1:A:732:ILE:HG12	2.00	0.60
1:B:478:ALA:CB	1:B:486:LYS:O	2.48	0.60
1:B:480:ASN:HD21	1:B:483:GLY:CA	2.14	0.60
1:B:550:SER:H	1:B:553:GLN:HE21	1.49	0.60
1:C:728:ALA:O	1:C:732:ILE:HG12	2.00	0.60
1:D:288:VAL:HG23	1:D:289:GLU:N	2.15	0.60
2:R:93:ASP:OD1	2:R:97:ASN:ND2	2.33	0.60
2:S:16:PHE:CE2	2:S:27:ILE:CD1	2.84	0.60
1:A:279:ILE:HG22	1:A:283:LEU:CD1	2.30	0.60
1:A:326:ILE:CG2	1:A:328:PHE:CE1	2.84	0.60
1:B:270:LYS:HD3	1:B:273:LYS:HD2	1.83	0.60
1:C:296:LEU:HD23	1:C:296:LEU:N	2.16	0.60
1:D:217:LYS:HZ1	1:D:236:GLU:HB2	1.65	0.60
1:D:581:GLN:HE21	1:D:629:ASN:N	1.98	0.60
1:E:115:LYS:HG3	1:E:153:ILE:HD13	1.83	0.60
1:E:164:GLU:HG2	1:E:166:SER:HB3	1.83	0.60
1:E:335:ALA:O	1:E:339:ILE:HG13	2.02	0.60
1:F:173:ILE:HG23	1:F:174:GLY:H	1.65	0.60
2:O:42:ASN:N	2:O:43:PRO:CD	2.64	0.60
2:T:93:ASP:OD1	2:T:97:ASN:ND2	2.34	0.60
1:A:275:GLY:HA2	1:A:278:LYS:HE3	1.82	0.60
1:B:567:THR:CG2	1:B:568:GLY:H	2.15	0.60
1:C:616:GLU:HA	1:C:620:THR:HB	1.83	0.60
1:D:199:LEU:HD21	1:D:225:ILE:O	2.02	0.60
1:D:615:ILE:HD12	1:D:645:TRP:CH2	2.37	0.60
1:D:728:ALA:O	1:D:732:ILE:HG12	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:679:TYR:CD1	1:E:679:TYR:C	2.79	0.60
1:F:127:SER:C	1:F:133:GLU:OE2	2.44	0.60
2:S:9:ILE:HD12	2:S:69:LEU:CD2	2.31	0.60
1:A:90:PRO:HG2	1:A:93:VAL:CB	2.27	0.60
1:A:201:ASP:HA	1:A:210:PHE:CE2	2.36	0.60
1:A:368:GLN:HG3	1:A:383:GLY:C	2.27	0.60
1:B:594:PHE:HE2	1:B:596:ILE:HD11	1.65	0.60
1:B:597:ASN:OD1	1:B:599:GLU:HB2	2.01	0.60
1:C:197:LYS:C	1:C:197:LYS:HZ3	2.09	0.60
1:C:639:ASN:HD22	1:C:639:ASN:N	1.95	0.60
1:C:775:LEU:O	1:C:777:TYR:N	2.35	0.60
1:D:602:PHE:C	1:D:603:ILE:HG13	2.25	0.60
1:E:90:PRO:HG2	1:E:93:VAL:CB	2.25	0.60
1:F:335:ALA:O	1:F:339:ILE:HG13	2.02	0.60
2:Q:72:MET:O	2:Q:74:ARG:N	2.33	0.60
2:S:13:LYS:C	2:S:15:ALA:H	2.09	0.60
1:D:279:ILE:HG22	1:D:283:LEU:CD1	2.31	0.60
1:D:692:GLU:OE1	2:R:21:LYS:NZ	2.32	0.60
1:E:127:SER:C	1:E:133:GLU:OE2	2.44	0.60
1:E:279:ILE:HG22	1:E:283:LEU:CD1	2.32	0.60
1:E:504:ILE:HG12	1:E:625:LEU:HD23	1.83	0.60
1:E:767:GLN:CG	1:E:768:LYS:HG2	2.24	0.60
1:F:164:GLU:HG2	1:F:166:SER:HB3	1.83	0.60
1:F:296:LEU:HD23	1:F:296:LEU:N	2.16	0.60
2:Q:42:ASN:N	2:Q:43:PRO:CD	2.63	0.60
2:R:72:MET:O	2:R:74:ARG:N	2.32	0.60
2:S:4:LEU:HA	2:S:8:GLN:NE2	2.16	0.60
2:T:72:MET:O	2:T:74:ARG:N	2.33	0.60
1:A:76:LEU:O	1:A:79:ILE:N	2.34	0.60
1:A:700:TYR:HD1	1:A:728:ALA:HA	1.66	0.60
1:B:96:ILE:HG22	1:B:100:LEU:HD11	1.83	0.60
1:B:105:TYR:HB2	1:B:153:ILE:HG12	1.82	0.60
1:B:112:VAL:C	1:B:114:HIS:H	2.09	0.60
1:B:255:THR:O	1:B:259:LEU:N	2.27	0.60
1:C:345:THR:HA	1:C:489:THR:O	2.02	0.60
1:D:71:PHE:CG	1:D:73:ASN:HB2	2.37	0.60
1:D:629:ASN:ND2	1:D:631:SER:H	2.00	0.60
1:D:794:GLN:NE2	1:D:795:LYS:HG3	2.16	0.60
1:E:199:LEU:HD21	1:E:225:ILE:O	2.02	0.60
1:E:275:GLY:HA2	1:E:278:LYS:HE3	1.82	0.60
1:E:434:LEU:HD22	1:E:445:ARG:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:617:LYS:NZ	1:E:618:ASN:ND2	2.46	0.60
1:F:154:ILE:HG22	1:F:155:ASN:H	1.67	0.60
1:F:775:LEU:O	1:F:777:TYR:N	2.35	0.60
2:O:4:LEU:CA	2:O:8:GLN:HE21	2.14	0.60
2:P:16:PHE:CE2	2:P:27:ILE:CD1	2.85	0.60
2:R:13:LYS:C	2:R:15:ALA:H	2.10	0.60
2:R:16:PHE:CE2	2:R:27:ILE:CD1	2.84	0.60
2:R:102:ALA:HB1	2:R:121:VAL:HG12	1.82	0.60
2:S:4:LEU:CA	2:S:8:GLN:HE21	2.15	0.60
2:T:16:PHE:CE2	2:T:27:ILE:CD1	2.84	0.60
1:A:515:LYS:HB3	1:A:515:LYS:HZ2	1.65	0.60
1:B:115:LYS:HB2	1:B:118:GLN:HG2	1.82	0.60
1:C:115:LYS:HB2	1:C:118:GLN:HG2	1.81	0.60
1:C:550:SER:H	1:C:553:GLN:HE21	1.48	0.60
1:D:326:ILE:CG2	1:D:328:PHE:CE1	2.84	0.60
1:D:550:SER:HG	1:D:552:TRP:CD1	2.20	0.60
1:D:775:LEU:O	1:D:777:TYR:N	2.35	0.60
1:E:184:LYS:HE3	1:E:191:GLU:CB	2.32	0.60
1:F:550:SER:HG	1:F:552:TRP:CD1	2.20	0.60
2:O:72:MET:O	2:O:74:ARG:N	2.32	0.60
2:P:4:LEU:HA	2:P:8:GLN:NE2	2.17	0.60
2:P:13:LYS:C	2:P:15:ALA:H	2.08	0.60
1:A:504:ILE:HG12	1:A:625:LEU:HD23	1.82	0.60
1:A:629:ASN:HD21	1:A:631:SER:CB	2.11	0.60
1:A:720:ILE:HD11	1:A:724:ARG:CZ	2.32	0.60
1:A:794:GLN:NE2	1:A:795:LYS:HG3	2.16	0.60
1:B:156:ILE:HD12	1:B:156:ILE:N	2.17	0.60
1:B:184:LYS:HE3	1:B:191:GLU:HB2	1.83	0.60
1:B:275:GLY:HA2	1:B:278:LYS:HE3	1.82	0.60
1:B:513:TRP:CZ2	2:P:114:GLU:HB2	2.35	0.60
1:B:636:ALA:O	1:B:640:LYS:HA	2.00	0.60
1:C:90:PRO:HG2	1:C:93:VAL:CB	2.26	0.60
1:C:301:ALA:O	1:C:303:LYS:N	2.35	0.60
1:D:71:PHE:CB	1:D:108:ASP:HB2	2.31	0.60
1:D:368:GLN:HG3	1:D:383:GLY:C	2.27	0.60
1:E:275:GLY:HA2	1:E:278:LYS:HD2	1.83	0.60
1:E:480:ASN:HD21	1:E:483:GLY:N	1.99	0.60
1:E:794:GLN:NE2	1:E:795:LYS:HG3	2.17	0.60
2:T:9:ILE:HD12	2:T:69:LEU:CD2	2.32	0.60
1:A:255:THR:O	1:A:259:LEU:N	2.28	0.60
1:A:343:VAL:HG13	1:A:487:PRO:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:567:THR:CG2	1:A:568:GLY:H	2.15	0.60
1:B:180:ASP:HA	1:B:183:SER:HB3	1.82	0.60
1:B:434:LEU:HD22	1:B:445:ARG:HB3	1.84	0.60
1:C:71:PHE:CB	1:C:108:ASP:HB2	2.31	0.60
1:C:127:SER:C	1:C:133:GLU:OE2	2.44	0.60
1:C:594:PHE:HE2	1:C:596:ILE:HD11	1.67	0.60
1:D:275:GLY:HA2	1:D:278:LYS:HD2	1.83	0.60
1:E:521:ASN:CB	1:E:524:GLU:HB3	2.32	0.60
1:F:184:LYS:HE3	1:F:191:GLU:CB	2.32	0.60
1:F:520:PRO:HG2	1:F:521:ASN:H	1.66	0.60
2:Q:4:LEU:HA	2:Q:8:GLN:NE2	2.16	0.60
2:Q:97:ASN:ND2	2:Q:99:TYR:H	2.00	0.60
2:S:42:ASN:N	2:S:43:PRO:CD	2.64	0.60
1:A:96:ILE:HG22	1:A:100:LEU:HD11	1.82	0.60
1:B:154:ILE:HG22	1:B:155:ASN:H	1.66	0.60
1:B:345:THR:HA	1:B:489:THR:O	2.02	0.60
1:B:679:TYR:CD1	1:B:679:TYR:C	2.80	0.60
1:D:275:GLY:HA2	1:D:278:LYS:HE3	1.84	0.60
1:E:225:ILE:HG12	1:E:229:PHE:CD2	2.37	0.60
1:E:343:VAL:HG13	1:E:487:PRO:HG2	1.82	0.60
1:E:679:TYR:CD2	1:E:691:LYS:HB2	2.36	0.60
1:E:775:LEU:O	1:E:777:TYR:N	2.35	0.60
1:F:343:VAL:HG13	1:F:487:PRO:HG2	1.82	0.60
2:R:4:LEU:CA	2:R:8:GLN:HE21	2.15	0.60
2:R:97:ASN:ND2	2:R:99:TYR:H	2.00	0.60
2:T:114:GLU:HA	2:T:114:GLU:OE2	2.02	0.60
1:A:199:LEU:HD21	1:A:225:ILE:O	2.02	0.59
1:A:679:TYR:C	1:A:679:TYR:CD1	2.80	0.59
1:B:302:LEU:HB2	1:B:602:PHE:HD1	1.65	0.59
1:C:567:THR:HG23	1:C:568:GLY:H	1.66	0.59
1:D:152:LEU:HD21	1:D:171:TYR:CE1	2.37	0.59
1:D:432:TYR:CD2	1:D:447:SER:HA	2.37	0.59
1:D:550:SER:H	1:D:553:GLN:HE21	1.48	0.59
1:E:189:ASP:O	1:E:191:GLU:N	2.35	0.59
1:E:189:ASP:HB3	1:E:190:PRO:HD2	1.84	0.59
1:E:368:GLN:HG3	1:E:383:GLY:C	2.27	0.59
1:E:700:TYR:HD1	1:E:728:ALA:HA	1.66	0.59
1:F:527:LYS:O	1:F:528:GLY:C	2.45	0.59
1:F:679:TYR:CD1	1:F:679:TYR:C	2.80	0.59
2:P:114:GLU:HA	2:P:114:GLU:OE2	2.02	0.59
2:T:57:ALA:C	2:T:59:GLY:H	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:597:ASN:OD1	1:A:599:GLU:HB2	2.02	0.59
1:A:615:ILE:HD12	1:A:645:TRP:CH2	2.37	0.59
1:B:137:PHE:O	1:B:140:ARG:HB2	2.03	0.59
1:B:480:ASN:HD21	1:B:483:GLY:HA2	1.67	0.59
1:B:521:ASN:CB	1:B:524:GLU:HB3	2.32	0.59
1:B:724:ARG:C	1:B:727:GLN:HB2	2.27	0.59
1:B:794:GLN:NE2	1:B:795:LYS:HG3	2.16	0.59
1:C:794:GLN:NE2	1:C:795:LYS:HG3	2.16	0.59
1:D:95:GLU:O	1:D:99:GLU:HB2	2.02	0.59
1:D:175:LYS:HZ2	1:D:175:LYS:CB	2.15	0.59
1:E:432:TYR:CD2	1:E:447:SER:HA	2.37	0.59
1:E:540:ARG:HD2	1:E:582:ASP:OD1	2.01	0.59
1:E:697:ILE:C	1:E:699:GLY:H	2.10	0.59
1:A:297:LYS:NZ	1:A:601:GLU:OE1	2.30	0.59
1:B:456:LYS:HZ3	1:B:471:TRP:CD1	2.20	0.59
1:C:326:ILE:HG22	1:C:328:PHE:HE1	1.63	0.59
1:C:432:TYR:CD2	1:C:447:SER:HA	2.37	0.59
1:C:567:THR:CG2	1:C:568:GLY:H	2.15	0.59
1:E:275:GLY:HA2	1:E:278:LYS:HG3	1.84	0.59
1:F:187:SER:C	1:F:188:LEU:O	2.41	0.59
1:F:297:LYS:NZ	1:F:601:GLU:OE1	2.30	0.59
2:O:13:LYS:C	2:O:15:ALA:H	2.09	0.59
2:P:4:LEU:CA	2:P:8:GLN:HE21	2.15	0.59
2:Q:13:LYS:O	2:Q:15:ALA:N	2.31	0.59
1:A:95:GLU:O	1:A:99:GLU:HB2	2.03	0.59
1:A:679:TYR:CD2	1:A:691:LYS:HB2	2.37	0.59
1:B:296:LEU:HD23	1:B:296:LEU:N	2.16	0.59
1:D:66:LEU:HD12	1:D:103:GLU:HA	1.84	0.59
1:E:112:VAL:C	1:E:114:HIS:H	2.10	0.59
1:F:180:ASP:HA	1:F:183:SER:HB3	1.83	0.59
1:F:481:VAL:O	1:F:484:VAL:HG23	2.02	0.59
1:F:636:ALA:O	1:F:640:LYS:HA	2.02	0.59
2:S:114:GLU:HA	2:S:114:GLU:OE2	2.03	0.59
1:A:296:LEU:HD23	1:A:296:LEU:N	2.17	0.59
1:A:480:ASN:HD21	1:A:483:GLY:CA	2.15	0.59
1:A:520:PRO:HG2	1:A:521:ASN:H	1.68	0.59
1:B:66:LEU:HD12	1:B:103:GLU:HA	1.83	0.59
1:B:368:GLN:HG3	1:B:383:GLY:C	2.28	0.59
1:B:775:LEU:O	1:B:777:TYR:N	2.36	0.59
1:C:243:LEU:HA	1:C:246:SER:OG	2.03	0.59
1:D:164:GLU:HG2	1:D:166:SER:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:478:ALA:CB	1:D:486:LYS:O	2.51	0.59
1:D:657:ILE:HG13	1:D:756:ILE:CD1	2.32	0.59
1:E:481:VAL:O	1:E:484:VAL:HG23	2.03	0.59
1:F:517:VAL:HB	1:F:525:LYS:HZ1	1.67	0.59
2:T:97:ASN:ND2	2:T:99:TYR:H	2.00	0.59
2:T:133:ASP:N	2:T:133:ASP:OD1	2.35	0.59
1:A:137:PHE:O	1:A:140:ARG:HB2	2.02	0.59
1:A:197:LYS:HB3	1:A:197:LYS:NZ	2.17	0.59
1:B:128:MET:HE1	1:B:235:THR:HB	1.84	0.59
1:B:184:LYS:HE3	1:B:191:GLU:CB	2.32	0.59
1:B:199:LEU:HD21	1:B:225:ILE:O	2.03	0.59
1:B:530:THR:HG21	2:P:145:MET:CE	2.33	0.59
1:C:112:VAL:C	1:C:114:HIS:H	2.10	0.59
1:C:115:LYS:HG3	1:C:153:ILE:HD13	1.85	0.59
1:C:275:GLY:HA2	1:C:278:LYS:HD2	1.83	0.59
1:C:615:ILE:HD12	1:C:645:TRP:CH2	2.38	0.59
1:D:105:TYR:HB2	1:D:153:ILE:HG12	1.85	0.59
1:D:112:VAL:C	1:D:114:HIS:H	2.10	0.59
1:D:521:ASN:CB	1:D:524:GLU:HB3	2.32	0.59
1:E:156:ILE:HD12	1:E:156:ILE:N	2.18	0.59
1:E:180:ASP:HA	1:E:183:SER:HB3	1.84	0.59
1:E:639:ASN:HD22	1:E:639:ASN:N	1.95	0.59
1:F:480:ASN:HD21	1:F:483:GLY:CA	2.15	0.59
1:A:164:GLU:HG2	1:A:166:SER:HB3	1.84	0.59
1:B:127:SER:C	1:B:133:GLU:OE2	2.44	0.59
1:B:187:SER:C	1:B:188:LEU:O	2.41	0.59
1:B:692:GLU:OE1	2:P:21:LYS:NZ	2.31	0.59
1:B:699:GLY:O	1:B:703:ASP:N	2.36	0.59
1:C:141:PHE:HD1	1:C:141:PHE:H	1.50	0.59
1:D:616:GLU:HA	1:D:620:THR:HB	1.85	0.59
1:F:141:PHE:HD1	1:F:141:PHE:H	1.49	0.59
1:F:270:LYS:HD3	1:F:273:LYS:HD2	1.84	0.59
1:F:368:GLN:HG3	1:F:383:GLY:C	2.27	0.59
1:F:434:LEU:HD22	1:F:445:ARG:HB3	1.84	0.59
1:F:456:LYS:HZ3	1:F:471:TRP:CD1	2.21	0.59
1:F:616:GLU:HA	1:F:620:THR:HB	1.85	0.59
1:A:128:MET:HE1	1:A:235:THR:HB	1.85	0.59
1:A:335:ALA:O	1:A:339:ILE:HG13	2.02	0.59
1:A:550:SER:H	1:A:553:GLN:HE21	1.50	0.59
1:A:775:LEU:O	1:A:777:TYR:N	2.36	0.59
1:B:164:GLU:HG2	1:B:166:SER:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:700:TYR:HD1	1:B:728:ALA:HA	1.66	0.59
1:C:105:TYR:HB2	1:C:153:ILE:HG12	1.83	0.59
1:D:504:ILE:HG12	1:D:625:LEU:HD23	1.84	0.59
1:F:128:MET:HE1	1:F:235:THR:HB	1.84	0.59
1:F:279:ILE:HG22	1:F:283:LEU:CD1	2.33	0.59
2:R:63:ILE:HG23	2:R:67:GLU:CB	2.33	0.59
2:S:97:ASN:ND2	2:S:99:TYR:H	2.00	0.59
2:T:102:ALA:HB1	2:T:121:VAL:HG12	1.85	0.59
1:A:513:TRP:CZ2	2:O:114:GLU:HB2	2.38	0.59
1:A:527:LYS:O	1:A:528:GLY:C	2.46	0.59
1:B:335:ALA:O	1:B:339:ILE:HG13	2.02	0.59
1:D:127:SER:C	1:D:133:GLU:OE2	2.44	0.59
1:D:137:PHE:O	1:D:140:ARG:HB2	2.03	0.59
1:D:141:PHE:H	1:D:141:PHE:HD1	1.50	0.59
1:D:296:LEU:HD23	1:D:296:LEU:N	2.17	0.59
1:E:480:ASN:HD21	1:E:483:GLY:CA	2.16	0.59
1:E:512:GLU:HA	1:E:515:LYS:HZ2	1.68	0.59
1:E:636:ALA:O	1:E:640:LYS:HA	2.01	0.59
1:E:692:GLU:OE1	2:S:21:LYS:NZ	2.31	0.59
1:E:728:ALA:O	1:E:729:TYR:C	2.45	0.59
1:F:96:ILE:HG22	1:F:100:LEU:HD11	1.83	0.59
2:P:102:ALA:HB1	2:P:121:VAL:HG12	1.84	0.59
1:A:456:LYS:HZ3	1:A:471:TRP:CD1	2.21	0.59
1:A:472:ARG:HH11	1:A:472:ARG:CB	2.15	0.59
1:D:156:ILE:HD12	1:D:156:ILE:N	2.18	0.59
1:E:128:MET:HE1	1:E:235:THR:HB	1.84	0.59
2:O:5:THR:O	2:O:9:ILE:HG12	2.03	0.59
2:Q:19:PHE:CE2	2:Q:34:THR:HG22	2.38	0.59
2:R:9:ILE:HD12	2:R:69:LEU:CD2	2.33	0.59
1:A:184:LYS:O	1:A:185:ASP:O	2.21	0.58
1:A:189:ASP:O	1:A:190:PRO:C	2.46	0.58
1:A:412:GLU:C	1:A:414:LYS:H	2.11	0.58
1:A:432:TYR:CD2	1:A:447:SER:HA	2.38	0.58
1:A:434:LEU:HD22	1:A:445:ARG:HB3	1.84	0.58
1:B:184:LYS:O	1:B:185:ASP:O	2.21	0.58
1:B:657:ILE:HG13	1:B:756:ILE:CD1	2.32	0.58
1:D:180:ASP:HA	1:D:183:SER:HB3	1.85	0.58
1:D:513:TRP:CZ2	2:R:114:GLU:HB2	2.37	0.58
1:D:679:TYR:C	1:D:679:TYR:CD1	2.80	0.58
1:E:122:GLU:HG3	1:E:147:ARG:HB2	1.85	0.58
1:E:137:PHE:O	1:E:140:ARG:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:310:GLU:OE2	1:E:340:LYS:HD2	2.03	0.58
1:F:95:GLU:O	1:F:99:GLU:HB2	2.02	0.58
1:F:504:ILE:HG12	1:F:625:LEU:HD23	1.85	0.58
1:F:724:ARG:C	1:F:727:GLN:HB2	2.28	0.58
2:O:114:GLU:OE2	2:O:114:GLU:HA	2.03	0.58
2:S:57:ALA:C	2:S:59:GLY:H	2.11	0.58
2:T:19:PHE:CE2	2:T:34:THR:HG22	2.38	0.58
2:T:55:VAL:HG11	2:T:71:MET:HE3	1.85	0.58
1:A:71:PHE:CD2	1:A:73:ASN:HB2	2.38	0.58
1:A:141:PHE:HD1	1:A:141:PHE:H	1.49	0.58
1:A:184:LYS:CE	1:A:191:GLU:HB2	2.33	0.58
1:A:699:GLY:O	1:A:703:ASP:N	2.36	0.58
1:B:520:PRO:HG2	1:B:521:ASN:H	1.68	0.58
1:C:335:ALA:O	1:C:339:ILE:HG13	2.03	0.58
1:C:368:GLN:HG3	1:C:383:GLY:C	2.28	0.58
1:C:521:ASN:CB	1:C:524:GLU:HB3	2.32	0.58
1:C:679:TYR:CD1	1:C:679:TYR:C	2.81	0.58
1:E:184:LYS:O	1:E:185:ASP:O	2.21	0.58
1:F:112:VAL:C	1:F:114:HIS:H	2.11	0.58
1:F:615:ILE:HD12	1:F:645:TRP:CH2	2.37	0.58
2:Q:4:LEU:CA	2:Q:8:GLN:HE21	2.16	0.58
1:A:127:SER:C	1:A:133:GLU:OE2	2.44	0.58
1:A:616:GLU:HA	1:A:620:THR:HB	1.84	0.58
1:B:581:GLN:HE21	1:B:629:ASN:N	1.98	0.58
1:C:520:PRO:HG2	1:C:521:ASN:H	1.68	0.58
1:E:95:GLU:O	1:E:99:GLU:HB2	2.03	0.58
1:E:270:LYS:HD3	1:E:273:LYS:HD2	1.84	0.58
1:E:520:PRO:HG2	1:E:521:ASN:H	1.67	0.58
1:F:567:THR:CG2	1:F:568:GLY:H	2.16	0.58
1:F:700:TYR:HD1	1:F:728:ALA:CA	2.17	0.58
2:O:9:ILE:HD12	2:O:69:LEU:CD2	2.33	0.58
2:P:5:THR:O	2:P:9:ILE:HG12	2.04	0.58
2:P:79:THR:C	2:P:81:SER:N	2.61	0.58
2:Q:102:ALA:HB1	2:Q:121:VAL:HG12	1.85	0.58
1:B:97:TYR:CZ	1:B:150:PRO:HB2	2.38	0.58
1:B:288:VAL:O	1:B:292:ARG:HG2	2.02	0.58
1:B:310:GLU:OE2	1:B:340:LYS:HD2	2.03	0.58
1:C:343:VAL:HG13	1:C:487:PRO:HG2	1.84	0.58
1:C:692:GLU:OE1	2:Q:21:LYS:NZ	2.33	0.58
1:F:472:ARG:HH11	1:F:472:ARG:CB	2.16	0.58
2:P:5:THR:HG23	2:P:8:GLN:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:19:PHE:CE2	2:R:34:THR:HG22	2.38	0.58
2:S:5:THR:O	2:S:9:ILE:HG12	2.04	0.58
2:T:13:LYS:O	2:T:15:ALA:N	2.30	0.58
2:T:48:LEU:HA	2:T:51:MET:CE	2.13	0.58
1:A:102:GLY:HA3	1:A:150:PRO:HG2	1.84	0.58
1:A:152:LEU:HD21	1:A:171:TYR:CE1	2.38	0.58
1:A:225:ILE:HD13	1:A:237:PHE:HZ	1.67	0.58
1:B:481:VAL:O	1:B:484:VAL:HG23	2.03	0.58
1:B:679:TYR:CD2	1:B:691:LYS:HB2	2.38	0.58
1:C:504:ILE:HG12	1:C:625:LEU:HD23	1.84	0.58
1:D:412:GLU:C	1:D:414:LYS:H	2.12	0.58
1:E:657:ILE:HG13	1:E:756:ILE:CD1	2.33	0.58
1:F:478:ALA:CB	1:F:486:LYS:O	2.52	0.58
1:F:728:ALA:O	1:F:729:TYR:C	2.46	0.58
2:P:13:LYS:O	2:P:15:ALA:N	2.31	0.58
2:P:63:ILE:HG23	2:P:67:GLU:CB	2.34	0.58
2:P:72:MET:O	2:P:74:ARG:N	2.33	0.58
2:Q:57:ALA:C	2:Q:59:GLY:H	2.11	0.58
2:R:114:GLU:OE2	2:R:114:GLU:HA	2.03	0.58
2:S:87:GLU:O	2:S:91:VAL:HG23	2.03	0.58
1:A:700:TYR:HD1	1:A:728:ALA:CA	2.17	0.58
1:B:639:ASN:HD22	1:B:639:ASN:N	1.94	0.58
1:C:478:ALA:CB	1:C:486:LYS:O	2.52	0.58
1:E:225:ILE:HD13	1:E:237:PHE:HZ	1.69	0.58
1:E:480:ASN:HD21	1:E:483:GLY:HA2	1.69	0.58
1:F:720:ILE:HD11	1:F:724:ARG:CZ	2.33	0.58
2:O:63:ILE:HG23	2:O:67:GLU:CB	2.33	0.58
2:R:5:THR:HG23	2:R:8:GLN:CB	2.33	0.58
2:R:133:ASP:N	2:R:133:ASP:OD1	2.37	0.58
2:S:5:THR:HG23	2:S:8:GLN:CB	2.34	0.58
2:T:5:THR:HG23	2:T:8:GLN:CB	2.33	0.58
1:A:97:TYR:CZ	1:A:150:PRO:HB2	2.39	0.58
1:A:112:VAL:C	1:A:114:HIS:H	2.11	0.58
1:A:728:ALA:O	1:A:729:TYR:C	2.47	0.58
1:B:102:GLY:HA3	1:B:150:PRO:HG2	1.86	0.58
1:B:141:PHE:H	1:B:141:PHE:HD1	1.49	0.58
1:B:556:MET:O	1:B:560:LEU:HD23	2.04	0.58
1:B:629:ASN:HD21	1:B:631:SER:CB	2.12	0.58
1:C:527:LYS:O	1:C:528:GLY:C	2.46	0.58
1:D:184:LYS:O	1:D:185:ASP:O	2.21	0.58
1:D:270:LYS:HD3	1:D:273:LYS:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:335:ALA:O	1:D:339:ILE:HG13	2.04	0.58
1:D:480:ASN:HD21	1:D:483:GLY:CA	2.16	0.58
1:E:71:PHE:CD2	1:E:73:ASN:HB2	2.39	0.58
1:E:243:LEU:HA	1:E:246:SER:OG	2.04	0.58
1:F:288:VAL:HG23	1:F:289:GLU:N	2.17	0.58
1:F:521:ASN:CB	1:F:524:GLU:HB3	2.32	0.58
2:O:102:ALA:HB1	2:O:121:VAL:HG12	1.86	0.58
2:Q:63:ILE:HG23	2:Q:67:GLU:CB	2.34	0.58
2:S:102:ALA:HB1	2:S:121:VAL:HG12	1.85	0.58
1:A:629:ASN:HB3	1:A:632:TYR:CD1	2.39	0.58
1:A:657:ILE:HG13	1:A:756:ILE:CD1	2.34	0.58
1:B:95:GLU:O	1:B:99:GLU:HB2	2.03	0.58
1:B:197:LYS:HB3	1:B:197:LYS:NZ	2.18	0.58
1:B:343:VAL:HG13	1:B:487:PRO:HG2	1.86	0.58
1:D:718:ARG:O	1:D:722:ILE:HG13	2.02	0.58
1:E:602:PHE:C	1:E:603:ILE:HG13	2.28	0.58
1:E:699:GLY:O	1:E:703:ASP:N	2.36	0.58
1:F:197:LYS:HB3	1:F:197:LYS:NZ	2.19	0.58
1:F:275:GLY:HA2	1:F:278:LYS:HD2	1.84	0.58
1:F:432:TYR:CD2	1:F:447:SER:HA	2.38	0.58
2:Q:104:GLU:O	2:Q:108:VAL:HG23	2.04	0.58
2:R:5:THR:O	2:R:9:ILE:HG12	2.03	0.58
1:A:478:ALA:CB	1:A:486:LYS:O	2.51	0.58
1:A:636:ALA:O	1:A:640:LYS:HA	2.02	0.58
1:B:107:THR:CG2	1:B:115:LYS:HE2	2.30	0.58
1:B:515:LYS:HB3	1:B:515:LYS:HZ2	1.67	0.58
1:B:527:LYS:O	1:B:528:GLY:C	2.46	0.58
1:B:609:GLU:OE2	1:B:609:GLU:N	2.35	0.58
1:C:700:TYR:HD1	1:C:728:ALA:CA	2.17	0.58
1:D:643:ILE:HG22	1:D:644:GLU:H	1.68	0.58
1:E:478:ALA:CB	1:E:486:LYS:O	2.52	0.58
1:E:616:GLU:HA	1:E:620:THR:HB	1.84	0.58
1:F:156:ILE:N	1:F:156:ILE:HD12	2.18	0.58
1:F:728:ALA:O	1:F:732:ILE:HG12	2.03	0.58
2:O:97:ASN:ND2	2:O:99:TYR:H	2.01	0.58
2:P:78:ASP:C	2:P:80:ASP:H	2.12	0.58
2:R:13:LYS:O	2:R:15:ALA:N	2.31	0.58
1:A:288:VAL:HG23	1:A:289:GLU:N	2.17	0.58
1:B:71:PHE:CB	1:B:108:ASP:HB2	2.34	0.58
1:B:217:LYS:HZ1	1:B:233:ASN:HB3	1.68	0.58
1:B:697:ILE:C	1:B:699:GLY:H	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:700:TYR:HD1	1:B:728:ALA:CA	2.17	0.58
1:C:180:ASP:HA	1:C:183:SER:HB3	1.85	0.58
1:D:179:LEU:HD23	1:D:179:LEU:N	2.19	0.58
1:E:187:SER:C	1:E:188:LEU:O	2.41	0.58
1:E:412:GLU:C	1:E:414:LYS:H	2.12	0.58
1:E:432:TYR:CD1	1:E:445:ARG:HD2	2.39	0.58
1:E:530:THR:HG21	2:S:145:MET:CE	2.34	0.58
1:E:724:ARG:C	1:E:727:GLN:HB2	2.29	0.58
1:F:199:LEU:HD21	1:F:225:ILE:O	2.04	0.58
1:F:225:ILE:HG12	1:F:229:PHE:CD2	2.39	0.58
2:O:5:THR:HG23	2:O:8:GLN:CB	2.34	0.58
2:O:57:ALA:C	2:O:59:GLY:H	2.11	0.58
2:S:19:PHE:CE2	2:S:34:THR:HG22	2.38	0.58
1:A:156:ILE:N	1:A:156:ILE:HD12	2.19	0.57
1:A:179:LEU:HD23	1:A:179:LEU:N	2.19	0.57
1:C:97:TYR:CZ	1:C:150:PRO:HB2	2.39	0.57
1:C:154:ILE:HG22	1:C:155:ASN:N	2.18	0.57
1:C:156:ILE:N	1:C:156:ILE:HD12	2.18	0.57
1:C:480:ASN:HD21	1:C:483:GLY:CA	2.16	0.57
1:C:697:ILE:C	1:C:699:GLY:H	2.11	0.57
1:D:700:TYR:HD1	1:D:728:ALA:CA	2.17	0.57
1:E:152:LEU:HD21	1:E:171:TYR:CE1	2.38	0.57
1:E:275:GLY:HA2	1:E:278:LYS:CG	2.32	0.57
1:E:629:ASN:HB3	1:E:632:TYR:CD1	2.39	0.57
1:F:412:GLU:C	1:F:414:LYS:H	2.12	0.57
2:O:19:PHE:CE2	2:O:34:THR:HG22	2.39	0.57
2:P:57:ALA:C	2:P:59:GLY:H	2.10	0.57
2:Q:5:THR:HG23	2:Q:8:GLN:CB	2.33	0.57
1:A:345:THR:HA	1:A:489:THR:O	2.05	0.57
1:A:516:VAL:HG21	1:A:532:LEU:HD11	1.86	0.57
1:A:697:ILE:C	1:A:699:GLY:H	2.11	0.57
1:B:412:GLU:C	1:B:414:LYS:H	2.12	0.57
1:B:432:TYR:CD2	1:B:447:SER:HA	2.38	0.57
1:B:728:ALA:O	1:B:729:TYR:C	2.47	0.57
1:D:481:VAL:O	1:D:484:VAL:HG23	2.04	0.57
1:D:512:GLU:HA	1:D:515:LYS:HZ2	1.68	0.57
1:E:110:ASP:O	1:E:111:LEU:C	2.47	0.57
1:F:184:LYS:O	1:F:185:ASP:O	2.22	0.57
2:S:32:LEU:HD22	2:S:63:ILE:HD12	1.86	0.57
1:A:76:LEU:H	1:A:76:LEU:CD2	2.15	0.57
1:A:747:ASN:O	1:A:750:GLN:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:152:LEU:HD21	1:B:171:TYR:CE1	2.38	0.57
1:B:504:ILE:HG12	1:B:625:LEU:HD23	1.86	0.57
1:B:747:ASN:O	1:B:750:GLN:HB2	2.04	0.57
1:C:639:ASN:ND2	1:C:639:ASN:N	2.49	0.57
1:C:715:GLU:HG3	1:C:718:ARG:NH1	2.16	0.57
1:D:480:ASN:HD21	1:D:483:GLY:HA2	1.69	0.57
1:E:115:LYS:NZ	1:E:115:LYS:HA	2.19	0.57
1:E:327:LEU:N	1:E:327:LEU:HD12	2.19	0.57
1:E:463:THR:HB	1:E:467:GLU:O	2.05	0.57
1:E:700:TYR:HD1	1:E:728:ALA:CA	2.17	0.57
1:F:76:LEU:H	1:F:76:LEU:CD2	2.14	0.57
1:F:90:PRO:HG2	1:F:93:VAL:CB	2.27	0.57
1:F:225:ILE:HD13	1:F:237:PHE:HZ	1.69	0.57
2:O:32:LEU:HD22	2:O:63:ILE:HD12	1.85	0.57
2:R:57:ALA:C	2:R:59:GLY:H	2.11	0.57
1:A:309:PRO:O	1:A:313:ASP:HB2	2.04	0.57
1:A:327:LEU:HD12	1:A:327:LEU:N	2.19	0.57
1:B:76:LEU:H	1:B:76:LEU:CD2	2.15	0.57
1:B:463:THR:HB	1:B:467:GLU:O	2.04	0.57
1:B:516:VAL:HG21	1:B:532:LEU:HD11	1.85	0.57
1:B:635:ILE:H	1:B:635:ILE:HD12	1.70	0.57
1:C:137:PHE:O	1:C:140:ARG:HB2	2.03	0.57
1:C:199:LEU:HD21	1:C:225:ILE:O	2.04	0.57
1:C:481:VAL:O	1:C:484:VAL:HG23	2.05	0.57
1:C:530:THR:HG21	2:Q:145:MET:CE	2.34	0.57
1:C:776:LEU:HD23	1:C:776:LEU:C	2.29	0.57
1:D:154:ILE:HG22	1:D:155:ASN:N	2.19	0.57
1:D:472:ARG:HH11	1:D:472:ARG:CB	2.17	0.57
1:D:609:GLU:OE2	1:D:609:GLU:N	2.34	0.57
1:D:699:GLY:O	1:D:703:ASP:N	2.37	0.57
1:D:747:ASN:O	1:D:750:GLN:HB2	2.03	0.57
1:E:102:GLY:HA3	1:E:150:PRO:HG2	1.87	0.57
1:E:141:PHE:HD1	1:E:141:PHE:H	1.50	0.57
1:E:217:LYS:HZ1	1:E:233:ASN:HB3	1.68	0.57
1:E:326:ILE:CG2	1:E:328:PHE:HE1	2.16	0.57
1:E:456:LYS:HZ3	1:E:471:TRP:CD1	2.23	0.57
1:F:179:LEU:HD23	1:F:179:LEU:N	2.19	0.57
1:F:271:LEU:HD13	1:F:276:PHE:CE2	2.39	0.57
1:F:275:GLY:HA2	1:F:278:LYS:HE3	1.85	0.57
1:F:715:GLU:HG3	1:F:718:ARG:NH1	2.16	0.57
2:P:19:PHE:CE2	2:P:34:THR:HG22	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:133:ASP:OD1	2:P:133:ASP:N	2.38	0.57
2:Q:5:THR:O	2:Q:9:ILE:HG12	2.04	0.57
2:R:97:ASN:C	2:R:97:ASN:HD22	2.12	0.57
2:T:5:THR:O	2:T:9:ILE:HG12	2.04	0.57
1:A:71:PHE:CB	1:A:108:ASP:HB2	2.35	0.57
1:A:692:GLU:CD	2:O:21:LYS:HZ1	2.13	0.57
1:A:724:ARG:C	1:A:727:GLN:HB2	2.28	0.57
1:C:581:GLN:O	1:C:629:ASN:HA	2.05	0.57
1:D:345:THR:HA	1:D:489:THR:O	2.03	0.57
1:E:76:LEU:H	1:E:76:LEU:CD2	2.14	0.57
1:E:504:ILE:HD12	1:E:504:ILE:N	2.20	0.57
1:F:97:TYR:CZ	1:F:150:PRO:HB2	2.38	0.57
1:F:173:ILE:HG13	1:F:242:SER:HB3	1.86	0.57
1:F:679:TYR:CD2	1:F:691:LYS:HB2	2.39	0.57
2:Q:78:ASP:C	2:Q:80:ASP:H	2.12	0.57
2:S:63:ILE:HG23	2:S:67:GLU:CB	2.34	0.57
1:A:275:GLY:HA2	1:A:278:LYS:HG3	1.86	0.57
1:A:504:ILE:N	1:A:504:ILE:HD12	2.19	0.57
1:C:96:ILE:HG22	1:C:100:LEU:HD11	1.86	0.57
1:C:270:LYS:HD3	1:C:273:LYS:HD2	1.85	0.57
1:C:724:ARG:C	1:C:727:GLN:HB2	2.29	0.57
1:C:728:ALA:O	1:C:729:TYR:C	2.47	0.57
1:D:225:ILE:HG12	1:D:229:PHE:CD2	2.39	0.57
1:D:711:ILE:C	1:D:712:PHE:HD2	2.12	0.57
1:E:556:MET:O	1:E:560:LEU:HD23	2.05	0.57
1:E:720:ILE:HD11	1:E:724:ARG:CZ	2.34	0.57
1:F:235:THR:HA	1:F:238:GLN:HG3	1.86	0.57
1:F:306:GLY:O	1:F:336:THR:HG23	2.05	0.57
1:F:345:THR:HA	1:F:489:THR:O	2.04	0.57
2:P:97:ASN:ND2	2:P:99:TYR:H	2.01	0.57
2:R:44:THR:C	2:R:46:ALA:N	2.62	0.57
1:A:306:GLY:O	1:A:336:THR:HG23	2.04	0.57
1:B:616:GLU:HA	1:B:620:THR:HB	1.85	0.57
1:B:708:ALA:O	1:B:711:ILE:HG12	2.05	0.57
1:D:208:LEU:HD12	1:D:208:LEU:N	2.20	0.57
1:F:115:LYS:HG3	1:F:153:ILE:HD13	1.87	0.57
1:F:122:GLU:HG3	1:F:147:ARG:HB2	1.87	0.57
1:F:556:MET:O	1:F:560:LEU:HD23	2.05	0.57
2:T:117:THR:OG1	2:T:119:GLU:HG2	2.05	0.57
1:A:225:ILE:HG12	1:A:229:PHE:CD2	2.40	0.57
1:A:270:LYS:HD3	1:A:273:LYS:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:VAL:O	1:A:292:ARG:HG2	2.04	0.57
1:A:310:GLU:OE2	1:A:340:LYS:HD2	2.05	0.57
1:A:635:ILE:H	1:A:635:ILE:HD12	1.70	0.57
1:B:275:GLY:HA2	1:B:278:LYS:HD2	1.85	0.57
1:C:197:LYS:HB3	1:C:197:LYS:NZ	2.19	0.57
1:C:225:ILE:HD13	1:C:237:PHE:HZ	1.69	0.57
1:C:225:ILE:HG12	1:C:229:PHE:CD2	2.39	0.57
1:C:463:THR:HB	1:C:467:GLU:O	2.05	0.57
1:C:629:ASN:HD21	1:C:631:SER:CB	2.13	0.57
1:D:78:LYS:O	1:D:81:GLN:HB3	2.05	0.57
1:D:371:SER:O	1:D:372:LYS:C	2.48	0.57
1:D:639:ASN:HD22	1:D:639:ASN:N	1.96	0.57
1:E:710:HIS:C	1:E:712:PHE:H	2.13	0.57
1:F:71:PHE:CD2	1:F:73:ASN:HB2	2.40	0.57
2:Q:13:LYS:HA	2:Q:65:PHE:CE1	2.39	0.57
1:A:196:ILE:O	1:A:199:LEU:HB2	2.05	0.57
1:A:208:LEU:HD12	1:A:208:LEU:N	2.20	0.57
1:B:180:ASP:CG	1:B:181:ILE:N	2.63	0.57
1:C:310:GLU:OE2	1:C:340:LYS:HD2	2.04	0.57
1:C:504:ILE:HD12	1:C:504:ILE:N	2.19	0.57
1:C:747:ASN:O	1:C:750:GLN:HB2	2.05	0.57
1:D:456:LYS:HZ3	1:D:471:TRP:CD1	2.23	0.57
1:D:463:THR:HB	1:D:467:GLU:O	2.05	0.57
1:D:629:ASN:HD21	1:D:631:SER:CB	2.12	0.57
1:D:697:ILE:C	1:D:699:GLY:H	2.12	0.57
1:E:747:ASN:O	1:E:750:GLN:HB2	2.05	0.57
2:O:44:THR:C	2:O:46:ALA:N	2.62	0.57
2:P:97:ASN:HD22	2:P:97:ASN:C	2.13	0.57
2:Q:117:THR:OG1	2:Q:119:GLU:HG2	2.05	0.57
2:R:13:LYS:HA	2:R:65:PHE:CE1	2.40	0.57
2:T:79:THR:C	2:T:81:SER:N	2.61	0.57
1:A:154:ILE:HG22	1:A:155:ASN:N	2.20	0.57
1:B:199:LEU:C	1:B:201:ASP:N	2.63	0.57
1:B:234:LEU:CD2	1:B:235:THR:H	2.18	0.57
1:B:275:GLY:HA2	1:B:278:LYS:HG3	1.87	0.57
1:B:472:ARG:HH11	1:B:472:ARG:CB	2.17	0.57
1:C:71:PHE:CG	1:C:73:ASN:HB2	2.39	0.57
1:C:185:ASP:O	1:C:190:PRO:HA	2.04	0.57
1:D:96:ILE:HG22	1:D:100:LEU:HD11	1.86	0.57
1:D:102:GLY:HA3	1:D:150:PRO:HG2	1.87	0.57
1:D:128:MET:HE1	1:D:235:THR:OG1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:197:LYS:HB3	1:D:197:LYS:NZ	2.19	0.57
1:D:309:PRO:O	1:D:313:ASP:HB2	2.05	0.57
1:D:710:HIS:C	1:D:712:PHE:H	2.13	0.57
1:E:97:TYR:CZ	1:E:150:PRO:HB2	2.40	0.57
1:E:708:ALA:O	1:E:711:ILE:HG12	2.05	0.57
1:F:71:PHE:CB	1:F:108:ASP:HB2	2.35	0.57
1:F:102:GLY:HA3	1:F:150:PRO:HG2	1.86	0.57
2:Q:133:ASP:OD1	2:Q:133:ASP:N	2.37	0.57
2:R:78:ASP:C	2:R:80:ASP:H	2.12	0.57
2:T:63:ILE:HG23	2:T:67:GLU:CB	2.35	0.57
1:B:243:LEU:HA	1:B:246:SER:OG	2.04	0.56
1:C:275:GLY:HA2	1:C:278:LYS:CG	2.34	0.56
1:C:412:GLU:C	1:C:414:LYS:H	2.12	0.56
1:C:556:MET:O	1:C:560:LEU:HD23	2.05	0.56
1:D:184:LYS:HE3	1:D:191:GLU:CB	2.34	0.56
1:E:180:ASP:CG	1:E:181:ILE:N	2.62	0.56
1:E:288:VAL:HG23	1:E:289:GLU:N	2.15	0.56
1:F:243:LEU:HA	1:F:246:SER:OG	2.05	0.56
1:F:432:TYR:CD1	1:F:445:ARG:HD2	2.40	0.56
2:O:133:ASP:N	2:O:133:ASP:OD1	2.37	0.56
2:Q:114:GLU:HA	2:Q:114:GLU:OE2	2.04	0.56
2:T:104:GLU:O	2:T:108:VAL:HG23	2.05	0.56
1:A:122:GLU:HG3	1:A:147:ARG:HB2	1.86	0.56
1:A:776:LEU:HD23	1:A:776:LEU:C	2.30	0.56
1:B:225:ILE:HG12	1:B:229:PHE:CD2	2.41	0.56
1:B:268:MET:HA	1:B:271:LEU:HD12	1.87	0.56
1:B:711:ILE:C	1:B:712:PHE:HD2	2.13	0.56
1:B:720:ILE:HD11	1:B:724:ARG:CZ	2.35	0.56
1:C:184:LYS:O	1:C:185:ASP:O	2.21	0.56
1:C:326:ILE:CG2	1:C:328:PHE:CE1	2.85	0.56
1:C:432:TYR:CD1	1:C:445:ARG:HD2	2.39	0.56
1:C:472:ARG:HH11	1:C:472:ARG:CB	2.16	0.56
1:C:480:ASN:HD21	1:C:483:GLY:HA2	1.70	0.56
1:C:699:GLY:O	1:C:703:ASP:N	2.37	0.56
1:D:252:ASP:CG	1:D:253:HIS:H	2.14	0.56
1:D:432:TYR:CD1	1:D:445:ARG:HD2	2.40	0.56
1:D:504:ILE:N	1:D:504:ILE:HD12	2.19	0.56
1:D:520:PRO:HG2	1:D:521:ASN:H	1.69	0.56
1:E:115:LYS:HB2	1:E:118:GLN:CG	2.35	0.56
1:E:275:GLY:O	1:E:278:LYS:HB2	2.05	0.56
1:E:288:VAL:O	1:E:292:ARG:HG2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:615:ILE:HD12	1:E:645:TRP:CH2	2.38	0.56
1:F:310:GLU:OE2	1:F:340:LYS:HD2	2.06	0.56
1:F:480:ASN:HD21	1:F:483:GLY:HA2	1.69	0.56
1:F:747:ASN:O	1:F:750:GLN:HB2	2.05	0.56
2:S:13:LYS:HA	2:S:65:PHE:CE1	2.40	0.56
2:S:133:ASP:OD1	2:S:133:ASP:N	2.37	0.56
1:A:66:LEU:HD12	1:A:103:GLU:HA	1.85	0.56
1:A:432:TYR:CD1	1:A:445:ARG:HD2	2.40	0.56
1:A:480:ASN:HD21	1:A:483:GLY:HA2	1.68	0.56
1:A:505:LYS:C	1:A:507:GLN:H	2.14	0.56
1:A:776:LEU:HD11	1:A:793:PHE:HE1	1.70	0.56
1:B:154:ILE:HG22	1:B:155:ASN:N	2.20	0.56
1:B:225:ILE:HD13	1:B:237:PHE:HZ	1.70	0.56
1:B:710:HIS:C	1:B:712:PHE:H	2.13	0.56
1:B:767:GLN:CG	1:B:768:LYS:HG2	2.24	0.56
1:C:102:GLY:HA3	1:C:150:PRO:HG2	1.87	0.56
1:C:173:ILE:HG13	1:C:242:SER:HB3	1.87	0.56
1:C:657:ILE:HG13	1:C:756:ILE:CD1	2.34	0.56
1:D:199:LEU:C	1:D:201:ASP:N	2.63	0.56
1:D:724:ARG:C	1:D:727:GLN:HB2	2.29	0.56
1:E:71:PHE:CB	1:E:108:ASP:HB2	2.36	0.56
1:E:234:LEU:HG	1:E:235:THR:N	2.21	0.56
1:F:246:SER:O	1:F:250:ALA:N	2.38	0.56
1:F:463:THR:HB	1:F:467:GLU:O	2.05	0.56
1:F:629:ASN:HB3	1:F:632:TYR:CD1	2.39	0.56
1:F:692:GLU:OE1	2:T:21:LYS:NZ	2.34	0.56
1:F:776:LEU:HD23	1:F:776:LEU:C	2.30	0.56
2:O:117:THR:OG1	2:O:119:GLU:HG2	2.05	0.56
2:P:13:LYS:HA	2:P:65:PHE:CE1	2.40	0.56
2:S:78:ASP:C	2:S:80:ASP:H	2.12	0.56
2:S:117:THR:OG1	2:S:119:GLU:HG2	2.05	0.56
1:B:371:SER:O	1:B:372:LYS:C	2.48	0.56
1:D:679:TYR:CD2	1:D:691:LYS:HB2	2.39	0.56
1:D:720:ILE:HD11	1:D:724:ARG:CZ	2.34	0.56
1:E:499:PRO:CG	1:E:504:ILE:HD11	2.33	0.56
1:E:527:LYS:O	1:E:528:GLY:C	2.48	0.56
1:F:110:ASP:O	1:F:111:LEU:C	2.48	0.56
1:F:326:ILE:CG2	1:F:328:PHE:HE1	2.18	0.56
1:F:512:GLU:HA	1:F:515:LYS:HZ2	1.70	0.56
1:F:530:THR:HG21	2:T:145:MET:CE	2.35	0.56
2:O:78:ASP:C	2:O:80:ASP:H	2.12	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:78:ASP:C	2:T:80:ASP:H	2.13	0.56
1:A:115:LYS:HB2	1:A:118:GLN:CG	2.34	0.56
1:A:609:GLU:OE2	1:A:609:GLU:N	2.34	0.56
1:B:275:GLY:HA2	1:B:278:LYS:CG	2.35	0.56
1:C:708:ALA:O	1:C:711:ILE:HG12	2.05	0.56
1:C:710:HIS:C	1:C:712:PHE:H	2.14	0.56
1:C:720:ILE:HD11	1:C:724:ARG:CZ	2.35	0.56
1:D:196:ILE:O	1:D:199:LEU:HB2	2.06	0.56
1:D:225:ILE:HD13	1:D:237:PHE:HZ	1.70	0.56
1:D:505:LYS:C	1:D:507:GLN:H	2.13	0.56
1:D:598:PRO:HG3	1:D:624:TYR:OH	2.06	0.56
1:E:196:ILE:O	1:E:199:LEU:HB2	2.06	0.56
1:E:234:LEU:CD2	1:E:235:THR:H	2.18	0.56
1:F:78:LYS:O	1:F:81:GLN:HB3	2.05	0.56
2:S:44:THR:C	2:S:46:ALA:N	2.63	0.56
1:A:271:LEU:HD13	1:A:276:PHE:CE2	2.41	0.56
1:A:275:GLY:HA2	1:A:278:LYS:CG	2.35	0.56
1:A:431:LYS:O	1:A:448:ASP:HB2	2.06	0.56
1:A:481:VAL:O	1:A:484:VAL:HG23	2.05	0.56
1:B:432:TYR:CD1	1:B:445:ARG:HD2	2.40	0.56
1:B:666:ASN:O	1:B:669:SER:HB3	2.06	0.56
1:C:66:LEU:HD12	1:C:103:GLU:HA	1.87	0.56
1:C:115:LYS:HA	1:C:115:LYS:NZ	2.20	0.56
1:C:115:LYS:HB2	1:C:118:GLN:CG	2.36	0.56
1:C:184:LYS:CE	1:C:191:GLU:HB2	2.34	0.56
1:C:327:LEU:HD12	1:C:327:LEU:N	2.21	0.56
1:E:199:LEU:C	1:E:201:ASP:N	2.64	0.56
1:E:305:SER:C	1:E:307:LEU:H	2.14	0.56
1:F:66:LEU:HD12	1:F:103:GLU:HA	1.86	0.56
1:F:609:GLU:OE2	1:F:609:GLU:N	2.36	0.56
2:O:104:GLU:O	2:O:108:VAL:HG23	2.04	0.56
2:Q:97:ASN:C	2:Q:97:ASN:HD22	2.13	0.56
1:A:115:LYS:NZ	1:A:115:LYS:HA	2.21	0.56
1:B:115:LYS:NZ	1:B:115:LYS:HA	2.21	0.56
1:B:196:ILE:O	1:B:199:LEU:HB2	2.06	0.56
1:C:196:ILE:O	1:C:199:LEU:HB2	2.05	0.56
1:C:371:SER:O	1:C:372:LYS:C	2.49	0.56
1:D:243:LEU:HA	1:D:246:SER:OG	2.06	0.56
1:D:306:GLY:O	1:D:336:THR:HG23	2.06	0.56
1:E:345:THR:HA	1:E:489:THR:O	2.05	0.56
1:F:165:GLN:C	1:F:167:LYS:H	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:327:LEU:HG	1:F:595:ILE:HG23	1.88	0.56
2:R:117:THR:OG1	2:R:119:GLU:HG2	2.05	0.56
1:A:243:LEU:HA	1:A:246:SER:OG	2.05	0.56
1:B:309:PRO:O	1:B:313:ASP:HB2	2.06	0.56
1:C:217:LYS:HZ1	1:C:236:GLU:HB2	1.69	0.56
1:C:217:LYS:HZ1	1:C:233:ASN:HB3	1.71	0.56
1:C:275:GLY:HA2	1:C:278:LYS:HG3	1.87	0.56
1:D:131:ARG:HG3	1:D:243:LEU:CD1	2.36	0.56
1:D:327:LEU:HD12	1:D:327:LEU:N	2.21	0.56
1:E:66:LEU:HD12	1:E:103:GLU:HA	1.87	0.56
1:E:154:ILE:HG22	1:E:155:ASN:N	2.21	0.56
1:E:165:GLN:C	1:E:167:LYS:H	2.14	0.56
1:E:172:GLU:O	1:E:175:LYS:HB3	2.05	0.56
1:E:297:LYS:NZ	1:E:601:GLU:OE1	2.30	0.56
1:E:666:ASN:O	1:E:669:SER:HB3	2.06	0.56
1:F:275:GLY:HA2	1:F:278:LYS:HG3	1.87	0.56
1:A:407:HIS:HB2	1:A:408:LEU:HD12	1.88	0.56
1:B:71:PHE:CD2	1:B:73:ASN:HB2	2.40	0.56
1:B:208:LEU:HD12	1:B:208:LEU:N	2.20	0.56
1:B:288:VAL:HG23	1:B:289:GLU:N	2.17	0.56
1:B:598:PRO:HG3	1:B:624:TYR:OH	2.06	0.56
1:C:95:GLU:O	1:C:99:GLU:HB2	2.04	0.56
1:D:97:TYR:CZ	1:D:150:PRO:HB2	2.41	0.56
1:D:118:GLN:HA	1:D:118:GLN:OE1	2.06	0.56
1:D:629:ASN:HB3	1:D:632:TYR:CD1	2.41	0.56
1:E:96:ILE:HG22	1:E:100:LEU:HD11	1.88	0.56
1:E:371:SER:O	1:E:372:LYS:C	2.48	0.56
1:E:609:GLU:OE2	1:E:609:GLU:N	2.33	0.56
1:E:711:ILE:C	1:E:712:PHE:HD2	2.14	0.56
1:E:776:LEU:HD23	1:E:776:LEU:C	2.30	0.56
2:O:13:LYS:HA	2:O:65:PHE:CE1	2.40	0.56
2:P:117:THR:OG1	2:P:119:GLU:HG2	2.06	0.56
1:A:371:SER:O	1:A:372:LYS:C	2.49	0.56
1:A:530:THR:HG21	2:O:145:MET:CE	2.36	0.56
1:B:122:GLU:HG3	1:B:147:ARG:HB2	1.88	0.56
1:B:252:ASP:CG	1:B:253:HIS:H	2.15	0.56
1:B:327:LEU:N	1:B:327:LEU:HD12	2.21	0.56
1:B:504:ILE:HD12	1:B:504:ILE:N	2.20	0.56
1:C:112:VAL:HG12	1:C:113:GLU:HG3	1.87	0.56
1:C:407:HIS:HB2	1:C:408:LEU:HD12	1.88	0.56
1:C:679:TYR:CD2	1:C:691:LYS:HB2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:271:LEU:HD13	1:D:276:PHE:CE2	2.41	0.56
1:D:305:SER:C	1:D:307:LEU:H	2.14	0.56
1:D:728:ALA:O	1:D:729:TYR:C	2.46	0.56
1:D:776:LEU:HD23	1:D:776:LEU:C	2.31	0.56
1:E:246:SER:O	1:E:250:ALA:N	2.39	0.56
1:F:115:LYS:HB2	1:F:118:GLN:CG	2.36	0.56
1:F:208:LEU:N	1:F:208:LEU:HD12	2.20	0.56
1:F:711:ILE:C	1:F:712:PHE:HD2	2.14	0.56
2:Q:44:THR:C	2:Q:46:ALA:N	2.62	0.56
2:R:32:LEU:HD22	2:R:63:ILE:HD12	1.85	0.56
2:R:63:ILE:HG23	2:R:67:GLU:HB3	1.88	0.56
1:A:305:SER:C	1:A:307:LEU:H	2.13	0.55
1:B:110:ASP:O	1:B:111:LEU:C	2.49	0.55
1:B:165:GLN:C	1:B:167:LYS:H	2.14	0.55
1:B:499:PRO:CG	1:B:504:ILE:HD11	2.34	0.55
1:B:579:THR:C	1:B:581:GLN:H	2.14	0.55
1:B:629:ASN:HB3	1:B:632:TYR:CD1	2.41	0.55
1:B:794:GLN:O	1:B:797:ILE:HG12	2.06	0.55
1:C:208:LEU:N	1:C:208:LEU:HD12	2.20	0.55
1:C:306:GLY:O	1:C:336:THR:HG23	2.05	0.55
1:C:456:LYS:HZ3	1:C:471:TRP:CD1	2.25	0.55
1:D:76:LEU:H	1:D:76:LEU:CD2	2.17	0.55
1:E:179:LEU:HD23	1:E:179:LEU:N	2.21	0.55
1:E:208:LEU:HD12	1:E:208:LEU:N	2.20	0.55
1:E:235:THR:HA	1:E:238:GLN:HG3	1.88	0.55
1:F:154:ILE:HG22	1:F:155:ASN:N	2.20	0.55
1:F:327:LEU:HD12	1:F:327:LEU:N	2.21	0.55
1:F:371:SER:O	1:F:372:LYS:C	2.49	0.55
1:F:697:ILE:C	1:F:699:GLY:H	2.13	0.55
1:F:776:LEU:HD11	1:F:793:PHE:HE1	1.71	0.55
1:A:110:ASP:O	1:A:111:LEU:C	2.49	0.55
1:A:112:VAL:HG12	1:A:113:GLU:HG3	1.87	0.55
1:A:326:ILE:CG2	1:A:328:PHE:HE1	2.17	0.55
1:A:463:THR:HB	1:A:467:GLU:O	2.06	0.55
1:B:225:ILE:HG23	1:B:229:PHE:CD2	2.41	0.55
1:C:225:ILE:HG23	1:C:229:PHE:CD2	2.40	0.55
1:C:711:ILE:C	1:C:712:PHE:HD2	2.14	0.55
1:D:115:LYS:HB2	1:D:118:GLN:CG	2.36	0.55
1:D:434:LEU:HD22	1:D:445:ARG:HB3	1.87	0.55
1:E:197:LYS:HB3	1:E:197:LYS:NZ	2.20	0.55
1:F:309:PRO:O	1:F:313:ASP:HB2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:97:ASN:HD22	2:S:97:ASN:C	2.13	0.55
2:T:13:LYS:HA	2:T:65:PHE:CE1	2.40	0.55
2:T:44:THR:C	2:T:46:ALA:N	2.64	0.55
1:A:102:GLY:C	1:A:103:GLU:HG3	2.32	0.55
1:A:165:GLN:C	1:A:167:LYS:H	2.12	0.55
1:A:180:ASP:CG	1:A:181:ILE:N	2.64	0.55
1:C:78:LYS:O	1:C:81:GLN:HB3	2.06	0.55
1:C:128:MET:HE1	1:C:235:THR:OG1	2.06	0.55
1:C:179:LEU:HD23	1:C:179:LEU:N	2.21	0.55
1:C:434:LEU:HD22	1:C:445:ARG:HB3	1.87	0.55
1:C:505:LYS:C	1:C:507:GLN:H	2.14	0.55
1:D:234:LEU:HG	1:D:235:THR:N	2.21	0.55
1:D:275:GLY:HA2	1:D:278:LYS:CG	2.36	0.55
1:E:115:LYS:HE3	1:E:116:GLU:HG2	1.88	0.55
1:E:173:ILE:HG13	1:E:242:SER:HB3	1.88	0.55
1:E:268:MET:HA	1:E:271:LEU:HD12	1.88	0.55
1:E:431:LYS:O	1:E:448:ASP:HB2	2.07	0.55
1:F:234:LEU:CD2	1:F:235:THR:H	2.18	0.55
1:F:288:VAL:O	1:F:292:ARG:HG2	2.05	0.55
2:S:56:ASP:C	2:S:58:ASP:H	2.15	0.55
2:S:104:GLU:O	2:S:108:VAL:HG23	2.06	0.55
1:A:643:ILE:HG22	1:A:644:GLU:H	1.71	0.55
1:B:173:ILE:C	1:B:175:LYS:N	2.63	0.55
1:D:326:ILE:CG2	1:D:328:PHE:HE1	2.19	0.55
1:E:776:LEU:HD11	1:E:793:PHE:HE1	1.70	0.55
1:F:112:VAL:HG12	1:F:113:GLU:HG3	1.88	0.55
1:F:173:ILE:C	1:F:175:LYS:N	2.63	0.55
1:F:196:ILE:O	1:F:199:LEU:HB2	2.06	0.55
1:F:234:LEU:HG	1:F:235:THR:N	2.22	0.55
1:F:275:GLY:HA2	1:F:278:LYS:CG	2.36	0.55
2:P:63:ILE:HG23	2:P:67:GLU:HB3	1.89	0.55
2:T:97:ASN:C	2:T:97:ASN:HD22	2.13	0.55
1:A:275:GLY:HA2	1:A:278:LYS:HD2	1.85	0.55
1:A:450:ASN:ND2	1:A:452:GLU:CG	2.69	0.55
1:B:179:LEU:HD23	1:B:179:LEU:N	2.20	0.55
1:B:246:SER:O	1:B:250:ALA:N	2.39	0.55
1:B:431:LYS:O	1:B:448:ASP:HB2	2.07	0.55
1:B:764:LEU:C	1:B:766:HIS:N	2.52	0.55
1:C:115:LYS:HE3	1:C:116:GLU:HG2	1.89	0.55
1:C:234:LEU:HG	1:C:235:THR:N	2.22	0.55
1:C:305:SER:HB2	1:C:594:PHE:CD1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:794:GLN:O	1:C:797:ILE:HG12	2.06	0.55
1:D:310:GLU:OE2	1:D:340:LYS:HD2	2.06	0.55
1:E:567:THR:HG23	1:E:568:GLY:H	1.65	0.55
1:E:633:ASN:O	1:E:642:TYR:HE1	1.89	0.55
1:F:102:GLY:C	1:F:103:GLU:HG3	2.30	0.55
1:F:118:GLN:OE1	1:F:118:GLN:HA	2.07	0.55
1:F:225:ILE:HG23	1:F:229:PHE:CD2	2.42	0.55
1:F:794:GLN:O	1:F:797:ILE:HG12	2.07	0.55
2:O:97:ASN:C	2:O:97:ASN:HD22	2.13	0.55
2:P:32:LEU:HD22	2:P:63:ILE:HD12	1.87	0.55
2:Q:79:THR:C	2:Q:81:SER:N	2.60	0.55
2:S:66:PRO:C	2:S:68:PHE:H	2.15	0.55
1:A:176:GLY:C	1:A:178:SER:N	2.64	0.55
1:A:234:LEU:HG	1:A:235:THR:N	2.22	0.55
1:A:711:ILE:C	1:A:712:PHE:HD2	2.14	0.55
1:A:777:TYR:HA	1:A:780:LEU:HD22	1.88	0.55
1:B:76:LEU:HD22	1:B:76:LEU:N	2.18	0.55
1:B:172:GLU:O	1:B:175:LYS:HB3	2.06	0.55
1:C:110:ASP:O	1:C:111:LEU:C	2.48	0.55
1:C:165:GLN:C	1:C:167:LYS:H	2.14	0.55
1:D:165:GLN:C	1:D:167:LYS:H	2.13	0.55
1:D:217:LYS:HZ1	1:D:233:ASN:HB3	1.71	0.55
1:D:234:LEU:CD2	1:D:235:THR:H	2.18	0.55
1:D:305:SER:HB2	1:D:594:PHE:CD1	2.42	0.55
1:D:629:ASN:HB3	1:D:632:TYR:CE1	2.42	0.55
1:E:407:HIS:HB2	1:E:408:LEU:HD12	1.88	0.55
1:E:715:GLU:HG3	1:E:718:ARG:NH1	2.16	0.55
1:F:431:LYS:O	1:F:448:ASP:HB2	2.07	0.55
1:F:598:PRO:HG3	1:F:624:TYR:OH	2.07	0.55
1:F:710:HIS:C	1:F:712:PHE:H	2.15	0.55
2:R:104:GLU:O	2:R:108:VAL:HG23	2.06	0.55
1:A:118:GLN:OE1	1:A:118:GLN:HA	2.06	0.55
1:A:412:GLU:HA	1:A:415:GLU:OE2	2.07	0.55
1:A:629:ASN:HB3	1:A:632:TYR:CE1	2.42	0.55
1:B:173:ILE:HG13	1:B:242:SER:HB3	1.89	0.55
1:B:581:GLN:O	1:B:629:ASN:HA	2.07	0.55
1:B:777:TYR:HA	1:B:780:LEU:HD22	1.89	0.55
1:C:706:ASN:O	2:Q:130:ILE:HG23	2.06	0.55
1:C:776:LEU:HD11	1:C:793:PHE:HE1	1.71	0.55
1:D:71:PHE:HB2	1:D:108:ASP:HB2	1.89	0.55
1:D:187:SER:C	1:D:188:LEU:O	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:78:LYS:O	1:E:81:GLN:HB3	2.06	0.55
1:E:706:ASN:O	2:S:130:ILE:HG23	2.07	0.55
1:F:504:ILE:HD12	1:F:504:ILE:N	2.22	0.55
1:A:234:LEU:CD2	1:A:235:THR:H	2.19	0.55
1:A:512:GLU:HA	1:A:515:LYS:HZ2	1.72	0.55
1:B:78:LYS:O	1:B:81:GLN:HB3	2.07	0.55
1:B:236:GLU:HA	1:B:239:HIS:HD2	1.72	0.55
1:B:326:ILE:CG2	1:B:328:PHE:HE1	2.17	0.55
1:C:172:GLU:HB3	1:C:246:SER:HA	1.89	0.55
1:C:268:MET:HA	1:C:271:LEU:HD12	1.87	0.55
1:C:412:GLU:HA	1:C:415:GLU:OE2	2.07	0.55
1:D:172:GLU:O	1:D:176:GLY:N	2.38	0.55
1:D:556:MET:O	1:D:560:LEU:HD23	2.06	0.55
1:F:445:ARG:HD3	1:F:471:TRP:CE2	2.42	0.55
1:F:596:ILE:HG22	1:F:596:ILE:O	2.07	0.55
1:F:629:ASN:HD21	1:F:631:SER:CB	2.12	0.55
1:F:639:ASN:ND2	1:F:639:ASN:N	2.50	0.55
1:F:694:VAL:HG23	2:T:18:LEU:HD21	1.89	0.55
2:P:44:THR:C	2:P:46:ALA:N	2.63	0.55
1:A:252:ASP:CG	1:A:253:HIS:H	2.15	0.55
1:A:268:MET:HA	1:A:271:LEU:HD12	1.89	0.55
1:B:115:LYS:HE3	1:B:116:GLU:HG2	1.87	0.55
1:B:473:ASN:OD1	1:B:473:ASN:N	2.38	0.55
1:D:708:ALA:O	1:D:711:ILE:HG12	2.06	0.55
1:E:505:LYS:C	1:E:507:GLN:H	2.15	0.55
1:F:252:ASP:CG	1:F:253:HIS:H	2.14	0.55
1:F:305:SER:C	1:F:307:LEU:H	2.14	0.55
1:F:407:HIS:HB2	1:F:408:LEU:HD12	1.88	0.55
2:T:32:LEU:HD22	2:T:63:ILE:HD12	1.87	0.55
1:A:445:ARG:HD3	1:A:471:TRP:CE2	2.42	0.55
1:A:710:HIS:C	1:A:712:PHE:H	2.14	0.55
1:B:305:SER:C	1:B:307:LEU:H	2.13	0.55
1:B:445:ARG:HD3	1:B:471:TRP:CE2	2.42	0.55
1:B:505:LYS:C	1:B:507:GLN:H	2.15	0.55
1:C:76:LEU:H	1:C:76:LEU:CD2	2.18	0.55
1:C:131:ARG:HG3	1:C:243:LEU:CD1	2.36	0.55
1:C:499:PRO:CG	1:C:504:ILE:HD11	2.35	0.55
1:C:629:ASN:HB3	1:C:632:TYR:CD1	2.41	0.55
1:D:79:ILE:O	1:D:81:GLN:N	2.40	0.55
1:D:235:THR:HA	1:D:238:GLN:HG3	1.87	0.55
1:D:275:GLY:HA2	1:D:278:LYS:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:450:ASN:ND2	1:D:452:GLU:CG	2.69	0.55
1:E:473:ASN:OD1	1:E:473:ASN:N	2.40	0.55
1:F:115:LYS:HE3	1:F:116:GLU:HG2	1.89	0.55
1:F:293:ILE:CD1	1:F:617:LYS:HD3	2.37	0.55
2:S:13:LYS:O	2:S:15:ALA:N	2.31	0.55
2:T:107:HIS:CG	2:T:107:HIS:O	2.59	0.55
1:A:556:MET:O	1:A:560:LEU:HD23	2.07	0.54
1:B:271:LEU:HD13	1:B:276:PHE:CE2	2.42	0.54
1:B:407:HIS:HB2	1:B:408:LEU:HD12	1.89	0.54
1:B:633:ASN:O	1:B:642:TYR:HE1	1.89	0.54
1:C:217:LYS:HB3	1:C:236:GLU:OE1	2.07	0.54
1:C:326:ILE:CG2	1:C:328:PHE:HE1	2.19	0.54
1:C:697:ILE:CD1	1:C:732:ILE:HD13	2.36	0.54
1:D:85:LEU:HD12	1:D:168:GLU:OE1	2.07	0.54
1:D:499:PRO:CG	1:D:504:ILE:HD11	2.34	0.54
1:F:180:ASP:CG	1:F:181:ILE:N	2.63	0.54
1:F:450:ASN:ND2	1:F:452:GLU:CG	2.70	0.54
1:A:246:SER:O	1:A:250:ALA:N	2.38	0.54
1:A:495:PHE:CD1	1:A:495:PHE:C	2.84	0.54
1:B:706:ASN:O	2:P:130:ILE:HG23	2.07	0.54
1:C:102:GLY:C	1:C:103:GLU:HG3	2.32	0.54
1:C:176:GLY:C	1:C:178:SER:N	2.63	0.54
1:C:305:SER:C	1:C:307:LEU:H	2.14	0.54
1:C:309:PRO:O	1:C:313:ASP:HB2	2.08	0.54
1:D:110:ASP:O	1:D:111:LEU:C	2.49	0.54
1:D:351:HIS:HB2	1:D:386:GLU:CG	2.38	0.54
1:D:596:ILE:O	1:D:596:ILE:HG22	2.06	0.54
1:D:695:LYS:HE3	2:R:19:PHE:CD1	2.42	0.54
1:D:776:LEU:HD11	1:D:793:PHE:HE1	1.72	0.54
1:E:172:GLU:O	1:E:176:GLY:N	2.36	0.54
1:E:173:ILE:C	1:E:175:LYS:N	2.62	0.54
1:E:252:ASP:CG	1:E:253:HIS:H	2.15	0.54
1:E:579:THR:C	1:E:581:GLN:H	2.15	0.54
1:F:115:LYS:NZ	1:F:115:LYS:HA	2.22	0.54
1:F:268:MET:HA	1:F:271:LEU:HD12	1.89	0.54
1:F:444:PHE:CD2	1:F:455:TYR:HB3	2.43	0.54
1:F:629:ASN:HB3	1:F:632:TYR:CE1	2.42	0.54
1:F:633:ASN:O	1:F:642:TYR:HE1	1.89	0.54
2:P:56:ASP:C	2:P:58:ASP:H	2.15	0.54
2:R:66:PRO:C	2:R:68:PHE:H	2.16	0.54
1:B:234:LEU:HG	1:B:235:THR:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:351:HIS:HB2	1:B:386:GLU:CG	2.38	0.54
1:B:700:TYR:CD1	1:B:727:GLN:HB3	2.42	0.54
1:C:180:ASP:CG	1:C:181:ILE:N	2.64	0.54
1:D:407:HIS:HB2	1:D:408:LEU:HD12	1.89	0.54
1:E:79:ILE:O	1:E:81:GLN:N	2.41	0.54
1:E:249:PHE:O	1:E:250:ALA:C	2.51	0.54
1:E:445:ARG:HD3	1:E:471:TRP:CE2	2.43	0.54
1:F:217:LYS:HZ2	1:F:217:LYS:HB3	1.72	0.54
1:F:310:GLU:O	1:F:314:ALA:HB2	2.07	0.54
1:F:495:PHE:CD1	1:F:495:PHE:C	2.86	0.54
1:F:666:ASN:O	1:F:669:SER:HB3	2.06	0.54
1:A:172:GLU:O	1:A:176:GLY:N	2.36	0.54
1:A:173:ILE:C	1:A:175:LYS:N	2.63	0.54
1:A:308:VAL:O	1:A:311:HIS:HB2	2.08	0.54
1:A:464:VAL:HG23	1:A:465:LEU:CD1	2.38	0.54
1:A:598:PRO:HG3	1:A:624:TYR:OH	2.08	0.54
1:B:293:ILE:CD1	1:B:617:LYS:HD3	2.36	0.54
1:B:308:VAL:O	1:B:311:HIS:HB2	2.08	0.54
1:C:755:ARG:O	1:C:756:ILE:C	2.50	0.54
1:C:777:TYR:HA	1:C:780:LEU:HD22	1.89	0.54
1:D:81:GLN:OE1	1:D:156:ILE:HG21	2.08	0.54
1:D:171:TYR:O	1:D:175:LYS:NZ	2.40	0.54
1:D:180:ASP:CG	1:D:181:ILE:N	2.65	0.54
1:D:697:ILE:CD1	1:D:732:ILE:HD13	2.37	0.54
1:D:794:GLN:O	1:D:797:ILE:HG12	2.08	0.54
1:E:629:ASN:HB3	1:E:632:TYR:CE1	2.42	0.54
1:F:305:SER:HB2	1:F:594:PHE:CD1	2.42	0.54
2:O:144:MET:HE1	2:O:145:MET:CE	2.37	0.54
1:A:172:GLU:O	1:A:175:LYS:HB3	2.08	0.54
1:A:408:LEU:H	1:A:408:LEU:CD1	2.02	0.54
1:A:708:ALA:O	1:A:711:ILE:HG12	2.08	0.54
1:B:118:GLN:OE1	1:B:118:GLN:HA	2.07	0.54
1:B:512:GLU:HA	1:B:515:LYS:HZ2	1.72	0.54
1:B:527:LYS:O	1:B:529:VAL:N	2.40	0.54
1:C:431:LYS:O	1:C:448:ASP:HB2	2.07	0.54
1:D:179:LEU:H	1:D:179:LEU:CD2	2.21	0.54
1:D:217:LYS:HB3	1:D:236:GLU:OE1	2.06	0.54
1:D:288:VAL:O	1:D:292:ARG:HG2	2.08	0.54
1:E:217:LYS:HZ1	1:E:236:GLU:HB2	1.72	0.54
1:F:128:MET:HE1	1:F:235:THR:OG1	2.07	0.54
1:F:527:LYS:O	1:F:529:VAL:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:567:THR:HG23	1:F:568:GLY:H	1.67	0.54
1:F:706:ASN:O	2:T:130:ILE:HG23	2.08	0.54
2:O:16:PHE:CZ	2:O:27:ILE:HG12	2.43	0.54
2:S:117:THR:C	2:S:119:GLU:N	2.65	0.54
1:A:78:LYS:O	1:A:81:GLN:HB3	2.08	0.54
1:B:172:GLU:O	1:B:176:GLY:N	2.36	0.54
1:B:176:GLY:C	1:B:178:SER:N	2.64	0.54
1:B:420:LEU:HD12	1:B:436:GLU:HB3	1.90	0.54
1:C:76:LEU:O	1:C:78:LYS:N	2.40	0.54
1:C:172:GLU:O	1:C:175:LYS:HB3	2.07	0.54
1:C:175:LYS:HZ2	1:C:175:LYS:CB	2.20	0.54
1:C:293:ILE:CD1	1:C:617:LYS:HD3	2.36	0.54
1:C:633:ASN:O	1:C:642:TYR:HE1	1.90	0.54
1:D:88:LYS:HZ3	1:D:172:GLU:CD	2.15	0.54
1:D:308:VAL:O	1:D:311:HIS:HB2	2.08	0.54
1:D:431:LYS:O	1:D:448:ASP:HB2	2.07	0.54
1:D:464:VAL:HG23	1:D:465:LEU:CD1	2.37	0.54
1:E:176:GLY:C	1:E:178:SER:N	2.64	0.54
1:E:692:GLU:CD	2:S:21:LYS:HZ1	2.15	0.54
1:E:695:LYS:HE3	2:S:19:PHE:CD1	2.41	0.54
1:E:794:GLN:O	1:E:797:ILE:HG12	2.08	0.54
1:F:505:LYS:C	1:F:507:GLN:H	2.15	0.54
1:F:595:ILE:HG22	1:F:596:ILE:N	2.23	0.54
2:P:104:GLU:O	2:P:108:VAL:HG23	2.06	0.54
2:T:66:PRO:C	2:T:68:PHE:H	2.16	0.54
1:A:217:LYS:HZ2	1:A:236:GLU:HB2	1.72	0.54
1:A:235:THR:HA	1:A:238:GLN:HG3	1.89	0.54
1:A:579:THR:C	1:A:581:GLN:H	2.16	0.54
1:A:595:ILE:HG22	1:A:596:ILE:N	2.22	0.54
1:B:112:VAL:HG12	1:B:113:GLU:HG3	1.90	0.54
1:B:217:LYS:HB3	1:B:236:GLU:OE1	2.07	0.54
1:B:275:GLY:O	1:B:278:LYS:HB2	2.08	0.54
1:B:306:GLY:O	1:B:336:THR:HG23	2.06	0.54
1:B:776:LEU:HD11	1:B:793:PHE:HE1	1.71	0.54
1:C:288:VAL:O	1:C:292:ARG:HG2	2.07	0.54
1:D:102:GLY:C	1:D:103:GLU:HG3	2.33	0.54
1:D:666:ASN:O	1:D:669:SER:HB3	2.07	0.54
1:E:99:GLU:C	1:E:101:GLY:N	2.66	0.54
1:E:118:GLN:OE1	1:E:118:GLN:HA	2.07	0.54
1:F:165:GLN:HG2	1:F:251:PRO:CG	2.36	0.54
1:F:295:VAL:C	1:F:296:LEU:CD2	2.80	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:464:VAL:HG23	1:F:465:LEU:CD1	2.38	0.54
1:A:175:LYS:HZ2	1:A:175:LYS:CB	2.16	0.54
1:A:327:LEU:HG	1:A:595:ILE:HG23	1.90	0.54
1:A:527:LYS:O	1:A:529:VAL:N	2.40	0.54
1:A:581:GLN:O	1:A:629:ASN:HA	2.08	0.54
1:C:236:GLU:HA	1:C:239:HIS:HD2	1.71	0.54
1:C:252:ASP:CG	1:C:253:HIS:H	2.15	0.54
1:C:351:HIS:HB2	1:C:386:GLU:CG	2.38	0.54
1:C:598:PRO:HG3	1:C:624:TYR:OH	2.07	0.54
1:C:617:LYS:HZ2	1:C:618:ASN:ND2	1.88	0.54
1:D:115:LYS:HG3	1:D:153:ILE:HD13	1.88	0.54
1:D:172:GLU:HB3	1:D:246:SER:HA	1.90	0.54
1:D:225:ILE:HG23	1:D:229:PHE:CD2	2.42	0.54
1:D:527:LYS:O	1:D:529:VAL:N	2.40	0.54
1:D:595:ILE:HG22	1:D:596:ILE:N	2.22	0.54
1:D:700:TYR:CD1	1:D:727:GLN:HB3	2.43	0.54
1:E:112:VAL:HG12	1:E:113:GLU:HG3	1.88	0.54
1:E:690:LYS:O	1:E:691:LYS:C	2.51	0.54
1:E:697:ILE:CD1	1:E:732:ILE:HD13	2.37	0.54
1:F:172:GLU:O	1:F:176:GLY:N	2.35	0.54
1:F:249:PHE:O	1:F:250:ALA:C	2.51	0.54
1:F:579:THR:C	1:F:581:GLN:H	2.15	0.54
2:Q:66:PRO:C	2:Q:68:PHE:H	2.15	0.54
1:A:173:ILE:HG13	1:A:242:SER:HB3	1.89	0.54
1:A:225:ILE:HG23	1:A:229:PHE:CD2	2.42	0.54
1:A:666:ASN:O	1:A:669:SER:HB3	2.08	0.54
1:A:781:ASN:O	1:A:789:ASN:ND2	2.41	0.54
1:A:794:GLN:O	1:A:797:ILE:HG12	2.07	0.54
1:B:155:ASN:C	1:B:156:ILE:HD12	2.33	0.54
1:B:175:LYS:HB2	1:B:175:LYS:HZ2	1.72	0.54
1:B:692:GLU:CD	2:P:21:LYS:HZ1	2.14	0.54
1:C:666:ASN:O	1:C:669:SER:HB3	2.08	0.54
1:D:172:GLU:O	1:D:175:LYS:HB3	2.08	0.54
1:D:173:ILE:HG13	1:D:242:SER:HB3	1.88	0.54
1:D:255:THR:O	1:D:259:LEU:N	2.27	0.54
1:D:268:MET:HA	1:D:271:LEU:HD12	1.88	0.54
1:D:530:THR:HG21	2:R:145:MET:CE	2.37	0.54
1:D:557:LEU:HG	1:D:575:VAL:CG1	2.37	0.54
1:D:755:ARG:O	1:D:756:ILE:C	2.50	0.54
1:E:128:MET:HE1	1:E:235:THR:OG1	2.08	0.54
1:E:225:ILE:HG23	1:E:229:PHE:CD2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:450:ASN:ND2	1:E:452:GLU:CG	2.70	0.54
1:E:777:TYR:HA	1:E:780:LEU:HD22	1.88	0.54
1:F:635:ILE:H	1:F:635:ILE:HD12	1.72	0.54
1:F:700:TYR:CD1	1:F:727:GLN:HB3	2.43	0.54
2:P:76:MET:HA	2:P:76:MET:HE3	1.90	0.54
2:Q:56:ASP:C	2:Q:58:ASP:H	2.14	0.54
2:S:63:ILE:HG23	2:S:67:GLU:HB3	1.90	0.54
1:A:246:SER:O	1:A:250:ALA:HB2	2.08	0.54
1:A:351:HIS:HB2	1:A:386:GLU:CG	2.38	0.54
1:A:596:ILE:O	1:A:596:ILE:HG22	2.07	0.54
1:B:109:ILE:O	1:B:109:ILE:HG22	2.08	0.54
1:B:189:ASP:HB3	1:B:190:PRO:HD2	1.90	0.54
1:B:450:ASN:ND2	1:B:452:GLU:CG	2.69	0.54
1:B:504:ILE:HD12	1:B:504:ILE:H	1.73	0.54
1:B:695:LYS:HE3	2:P:19:PHE:CD1	2.42	0.54
1:C:443:GLU:O	1:C:455:TYR:HA	2.08	0.54
1:D:112:VAL:HG12	1:D:113:GLU:HG3	1.89	0.54
1:D:706:ASN:O	2:R:130:ILE:HG23	2.07	0.54
1:D:715:GLU:HG3	1:D:718:ARG:NH1	2.17	0.54
1:E:306:GLY:O	1:E:336:THR:HG23	2.07	0.54
1:E:412:GLU:HA	1:E:415:GLU:OE2	2.08	0.54
1:E:444:PHE:CD2	1:E:455:TYR:HB3	2.43	0.54
1:E:595:ILE:HG22	1:E:596:ILE:N	2.23	0.54
1:E:755:ARG:O	1:E:756:ILE:C	2.51	0.54
1:F:85:LEU:HD12	1:F:168:GLU:OE1	2.08	0.54
1:F:557:LEU:HG	1:F:575:VAL:CG1	2.37	0.54
1:F:695:LYS:HE3	2:T:19:PHE:CD1	2.43	0.54
1:F:777:TYR:HA	1:F:780:LEU:HD22	1.89	0.54
2:O:56:ASP:C	2:O:58:ASP:H	2.14	0.54
2:Q:63:ILE:HG23	2:Q:67:GLU:HB3	1.90	0.54
2:Q:76:MET:HA	2:Q:76:MET:HE3	1.90	0.54
2:Q:107:HIS:O	2:Q:107:HIS:CG	2.60	0.54
1:A:128:MET:HE1	1:A:235:THR:OG1	2.08	0.53
1:A:172:GLU:HB3	1:A:246:SER:HA	1.90	0.53
1:A:305:SER:HB2	1:A:594:PHE:CD1	2.43	0.53
1:B:115:LYS:HB2	1:B:118:GLN:CG	2.38	0.53
1:B:217:LYS:HZ1	1:B:236:GLU:HB2	1.72	0.53
1:B:464:VAL:HG23	1:B:465:LEU:CD1	2.38	0.53
1:B:776:LEU:HD23	1:B:776:LEU:C	2.31	0.53
1:C:76:LEU:O	1:C:77:ASP:C	2.51	0.53
1:C:81:GLN:OE1	1:C:156:ILE:HG21	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:PHE:CD2	1:C:455:TYR:HB3	2.43	0.53
1:C:450:ASN:ND2	1:C:452:GLU:CG	2.70	0.53
1:D:109:ILE:HG22	1:D:109:ILE:O	2.08	0.53
1:D:176:GLY:C	1:D:178:SER:N	2.62	0.53
1:D:246:SER:O	1:D:250:ALA:N	2.37	0.53
1:D:420:LEU:HD12	1:D:436:GLU:HB3	1.90	0.53
1:E:271:LEU:HD13	1:E:276:PHE:CE2	2.43	0.53
1:E:472:ARG:HH11	1:E:472:ARG:CB	2.17	0.53
1:E:495:PHE:C	1:E:495:PHE:CD1	2.86	0.53
1:E:628:PHE:CD1	1:E:645:TRP:CD1	2.96	0.53
1:F:657:ILE:HG13	1:F:756:ILE:CD1	2.34	0.53
2:P:41:GLN:C	2:P:43:PRO:CD	2.78	0.53
2:Q:12:PHE:HB3	2:Q:68:PHE:HE2	1.73	0.53
1:A:217:LYS:HB3	1:A:236:GLU:OE1	2.09	0.53
1:A:236:GLU:HA	1:A:239:HIS:HD2	1.73	0.53
1:A:305:SER:OG	1:A:307:LEU:HD13	2.09	0.53
1:A:345:THR:HB	1:A:491:ASP:CB	2.36	0.53
1:A:694:VAL:HG23	2:O:18:LEU:HD21	1.87	0.53
1:C:173:ILE:C	1:C:175:LYS:N	2.64	0.53
1:C:234:LEU:CD2	1:C:235:THR:H	2.20	0.53
1:C:310:GLU:O	1:C:314:ALA:HB2	2.08	0.53
1:C:527:LYS:O	1:C:529:VAL:N	2.41	0.53
1:C:595:ILE:HG22	1:C:596:ILE:N	2.23	0.53
1:C:635:ILE:H	1:C:635:ILE:HD12	1.73	0.53
1:D:777:TYR:HA	1:D:780:LEU:HD22	1.89	0.53
1:E:305:SER:HB2	1:E:594:PHE:CD1	2.43	0.53
1:E:700:TYR:CD1	1:E:727:GLN:HB3	2.43	0.53
1:F:90:PRO:HD3	1:F:249:PHE:CE2	2.43	0.53
1:F:218:LEU:C	1:F:220:LEU:H	2.14	0.53
1:F:755:ARG:O	1:F:756:ILE:C	2.52	0.53
2:O:63:ILE:HG23	2:O:67:GLU:HB3	1.89	0.53
2:Q:32:LEU:HD22	2:Q:63:ILE:HD12	1.87	0.53
2:S:72:MET:C	2:S:74:ARG:N	2.66	0.53
1:A:387:ASN:HD22	1:A:387:ASN:N	2.05	0.53
1:A:456:LYS:HA	1:A:469:PHE:CE1	2.43	0.53
1:A:533:LEU:O	1:A:533:LEU:HD22	2.08	0.53
1:A:715:GLU:HG3	1:A:767:GLN:HE21	1.73	0.53
1:B:353:LYS:H	1:B:368:GLN:NE2	2.05	0.53
1:B:443:GLU:O	1:B:455:TYR:HA	2.09	0.53
1:B:615:ILE:HD12	1:B:645:TRP:CH2	2.38	0.53
1:B:628:PHE:CD1	1:B:645:TRP:CD1	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:629:ASN:HB3	1:B:632:TYR:CE1	2.43	0.53
1:C:109:ILE:O	1:C:109:ILE:HG22	2.08	0.53
1:C:504:ILE:HD12	1:C:504:ILE:H	1.72	0.53
1:C:700:TYR:CD1	1:C:727:GLN:HB3	2.43	0.53
2:O:36:MET:O	2:O:40:GLY:N	2.41	0.53
2:T:36:MET:O	2:T:40:GLY:N	2.42	0.53
1:A:171:TYR:O	1:A:175:LYS:NZ	2.41	0.53
1:A:310:GLU:O	1:A:314:ALA:HB2	2.08	0.53
1:A:420:LEU:HD12	1:A:436:GLU:HB3	1.91	0.53
1:A:611:THR:HG22	1:A:615:ILE:HD11	1.90	0.53
1:A:628:PHE:CD1	1:A:645:TRP:CD1	2.96	0.53
1:B:310:GLU:O	1:B:314:ALA:HB2	2.08	0.53
1:C:99:GLU:C	1:C:101:GLY:N	2.66	0.53
1:C:454:GLN:HG2	1:C:473:ASN:HA	1.90	0.53
1:D:454:GLN:HG2	1:D:473:ASN:HA	1.90	0.53
1:E:305:SER:OG	1:E:307:LEU:HD13	2.08	0.53
1:E:789:ASN:O	1:E:792:VAL:HB	2.08	0.53
1:F:76:LEU:HD22	1:F:76:LEU:N	2.17	0.53
1:F:76:LEU:O	1:F:78:LYS:N	2.42	0.53
1:F:171:TYR:O	1:F:175:LYS:NZ	2.41	0.53
1:F:597:ASN:HB2	1:F:598:PRO:HD2	1.90	0.53
2:O:79:THR:C	2:O:81:SER:N	2.60	0.53
2:R:12:PHE:HB3	2:R:68:PHE:HE2	1.72	0.53
2:T:12:PHE:HB3	2:T:68:PHE:HE2	1.73	0.53
2:T:15:ALA:HB1	2:T:35:VAL:CG1	2.39	0.53
1:A:217:LYS:CB	1:A:236:GLU:HG3	2.39	0.53
1:B:118:GLN:HE22	1:B:143:PHE:HD2	1.55	0.53
1:B:128:MET:HE1	1:B:235:THR:OG1	2.08	0.53
1:B:339:ILE:O	1:B:342:GLY:N	2.35	0.53
1:C:275:GLY:O	1:C:278:LYS:HB2	2.09	0.53
1:C:629:ASN:HB3	1:C:632:TYR:CE1	2.44	0.53
1:D:327:LEU:HG	1:D:595:ILE:HG23	1.90	0.53
1:E:387:ASN:HD22	1:E:387:ASN:N	2.05	0.53
1:E:443:GLU:O	1:E:455:TYR:HA	2.08	0.53
1:E:454:GLN:HG2	1:E:473:ASN:HA	1.90	0.53
1:E:533:LEU:O	1:E:533:LEU:HD22	2.08	0.53
1:F:109:ILE:HG22	1:F:109:ILE:O	2.08	0.53
1:F:155:ASN:C	1:F:156:ILE:HD12	2.34	0.53
1:F:781:ASN:O	1:F:789:ASN:ND2	2.41	0.53
2:P:66:PRO:C	2:P:68:PHE:H	2.15	0.53
1:A:444:PHE:CD2	1:A:455:TYR:HB3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:454:GLN:HG2	1:B:473:ASN:HA	1.89	0.53
1:B:789:ASN:O	1:B:792:VAL:HB	2.09	0.53
1:C:155:ASN:C	1:C:156:ILE:HD12	2.34	0.53
1:C:235:THR:HA	1:C:238:GLN:HG3	1.89	0.53
1:D:115:LYS:HE3	1:D:116:GLU:HG2	1.91	0.53
1:D:297:LYS:NZ	1:D:601:GLU:OE1	2.33	0.53
1:D:501:LEU:HD22	2:R:112:LEU:HG	1.91	0.53
1:E:217:LYS:CB	1:E:236:GLU:HG3	2.39	0.53
1:E:327:LEU:HG	1:E:595:ILE:HG23	1.91	0.53
1:E:694:VAL:HG23	2:S:18:LEU:HD21	1.91	0.53
1:F:217:LYS:HB3	1:F:236:GLU:OE1	2.08	0.53
1:F:236:GLU:HA	1:F:239:HIS:HD2	1.72	0.53
2:P:111:ASN:C	2:P:113:GLY:H	2.17	0.53
1:A:115:LYS:HE3	1:A:116:GLU:HG2	1.90	0.53
1:A:155:ASN:C	1:A:156:ILE:HD12	2.34	0.53
1:A:275:GLY:O	1:A:278:LYS:HB2	2.09	0.53
1:A:473:ASN:OD1	1:A:473:ASN:N	2.39	0.53
1:B:597:ASN:HB2	1:B:598:PRO:HD2	1.91	0.53
1:C:180:ASP:O	1:C:183:SER:N	2.39	0.53
1:C:249:PHE:O	1:C:250:ALA:C	2.52	0.53
1:C:628:PHE:CD1	1:C:645:TRP:CD1	2.96	0.53
1:D:173:ILE:C	1:D:175:LYS:N	2.64	0.53
1:D:275:GLY:O	1:D:278:LYS:HB2	2.07	0.53
1:D:456:LYS:HA	1:D:469:PHE:CE1	2.44	0.53
1:E:71:PHE:CG	1:E:73:ASN:HB2	2.44	0.53
1:E:456:LYS:HA	1:E:469:PHE:CE1	2.44	0.53
1:F:76:LEU:O	1:F:77:ASP:C	2.52	0.53
1:F:520:PRO:HG2	1:F:521:ASN:N	2.24	0.53
1:A:700:TYR:CD1	1:A:727:GLN:HB3	2.44	0.53
1:B:235:THR:HA	1:B:238:GLN:HG3	1.90	0.53
1:C:118:GLN:OE1	1:C:118:GLN:HA	2.08	0.53
1:C:509:PRO:HG2	1:C:512:GLU:HG3	1.91	0.53
1:C:611:THR:HG22	1:C:615:ILE:HD11	1.91	0.53
1:C:694:VAL:HG23	2:Q:18:LEU:HD21	1.90	0.53
1:D:419:ILE:HD12	1:D:435:LEU:HD13	1.91	0.53
1:D:581:GLN:O	1:D:629:ASN:HA	2.08	0.53
1:D:694:VAL:HG23	2:R:18:LEU:HD21	1.90	0.53
1:E:76:LEU:O	1:E:77:ASP:C	2.52	0.53
1:E:102:GLY:C	1:E:103:GLU:HG3	2.33	0.53
1:E:217:LYS:HB3	1:E:236:GLU:OE1	2.07	0.53
1:E:335:ALA:CB	1:E:489:THR:OG1	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:515:LYS:HB3	1:E:515:LYS:HZ3	1.74	0.53
1:E:520:PRO:HG2	1:E:521:ASN:N	2.24	0.53
1:F:131:ARG:HG3	1:F:243:LEU:CD1	2.39	0.53
1:F:351:HIS:HB2	1:F:386:GLU:CG	2.39	0.53
1:F:387:ASN:HD22	1:F:387:ASN:N	2.06	0.53
1:F:412:GLU:HA	1:F:415:GLU:OE2	2.09	0.53
2:O:107:HIS:CG	2:O:107:HIS:O	2.62	0.53
1:A:443:GLU:O	1:A:455:TYR:HA	2.09	0.53
1:B:102:GLY:C	1:B:103:GLU:HG3	2.32	0.53
1:B:172:GLU:HB3	1:B:246:SER:HA	1.90	0.53
1:B:335:ALA:CB	1:B:489:THR:OG1	2.57	0.53
1:B:628:PHE:CE2	2:P:90:ARG:CZ	2.92	0.53
1:B:694:VAL:HG23	2:P:18:LEU:HD21	1.89	0.53
1:D:443:GLU:O	1:D:455:TYR:HA	2.08	0.53
1:D:445:ARG:HD3	1:D:471:TRP:CE2	2.43	0.53
1:D:504:ILE:HD12	1:D:504:ILE:H	1.73	0.53
1:D:635:ILE:H	1:D:635:ILE:HD12	1.74	0.53
1:D:697:ILE:CD1	1:D:732:ILE:CD1	2.87	0.53
1:F:172:GLU:O	1:F:175:LYS:HB3	2.08	0.53
1:F:628:PHE:CD1	1:F:645:TRP:CD1	2.97	0.53
1:F:739:LYS:HG2	1:F:740:GLN:H	1.74	0.53
2:P:107:HIS:CG	2:P:107:HIS:O	2.60	0.53
2:P:109:MET:O	2:P:114:GLU:HB3	2.09	0.53
2:Q:36:MET:O	2:Q:40:GLY:N	2.42	0.53
2:Q:55:VAL:HG22	2:Q:55:VAL:O	2.08	0.53
2:R:109:MET:O	2:R:114:GLU:HB3	2.09	0.53
2:R:117:THR:C	2:R:119:GLU:N	2.65	0.53
2:R:144:MET:HE1	2:R:145:MET:CE	2.39	0.53
2:S:36:MET:O	2:S:40:GLY:N	2.41	0.53
1:A:131:ARG:HG3	1:A:243:LEU:CD1	2.40	0.53
1:A:249:PHE:O	1:A:250:ALA:C	2.51	0.53
1:A:633:ASN:O	1:A:642:TYR:HE1	1.91	0.53
1:B:595:ILE:HG22	1:B:596:ILE:N	2.24	0.53
1:B:643:ILE:HG22	1:B:644:GLU:H	1.74	0.53
1:C:295:VAL:C	1:C:296:LEU:CD2	2.81	0.53
1:C:456:LYS:HA	1:C:469:PHE:CE1	2.44	0.53
1:C:533:LEU:HD22	1:C:533:LEU:O	2.08	0.53
1:C:739:LYS:HG2	1:C:740:GLN:H	1.74	0.53
1:D:155:ASN:C	1:D:156:ILE:HD12	2.33	0.53
1:D:249:PHE:O	1:D:250:ALA:C	2.51	0.53
1:D:387:ASN:N	1:D:387:ASN:HD22	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:444:PHE:CD2	1:D:455:TYR:HB3	2.44	0.53
1:D:517:VAL:HG23	1:D:518:ASN:ND2	2.24	0.53
1:E:76:LEU:O	1:E:78:LYS:N	2.42	0.53
1:E:310:GLU:O	1:E:314:ALA:HB2	2.09	0.53
1:E:351:HIS:HB2	1:E:386:GLU:CG	2.38	0.53
1:E:464:VAL:HG23	1:E:465:LEU:CD1	2.38	0.53
1:E:611:THR:HG22	1:E:615:ILE:HD11	1.91	0.53
1:F:99:GLU:C	1:F:101:GLY:N	2.67	0.53
1:F:308:VAL:O	1:F:311:HIS:HB2	2.09	0.53
2:O:76:MET:HA	2:O:76:MET:HE3	1.90	0.53
2:P:12:PHE:HB3	2:P:68:PHE:HE2	1.73	0.53
2:S:76:MET:HA	2:S:76:MET:HE3	1.90	0.53
2:T:76:MET:HA	2:T:76:MET:HE3	1.90	0.53
1:A:697:ILE:CD1	1:A:732:ILE:HD13	2.39	0.52
1:A:765:THR:HA	1:A:769:SER:CB	2.20	0.52
1:B:148:GLU:HG3	1:B:149:THR:N	2.24	0.52
1:C:445:ARG:HD3	1:C:471:TRP:CE2	2.43	0.52
1:C:789:ASN:O	1:C:792:VAL:HB	2.08	0.52
1:D:611:THR:HG22	1:D:615:ILE:HD11	1.92	0.52
1:E:309:PRO:O	1:E:313:ASP:HB2	2.07	0.52
1:E:420:LEU:HD12	1:E:436:GLU:HB3	1.90	0.52
1:E:561:ASN:C	1:E:563:ALA:N	2.66	0.52
1:E:579:THR:C	1:E:581:GLN:N	2.67	0.52
1:E:697:ILE:CD1	1:E:732:ILE:CD1	2.87	0.52
1:E:781:ASN:O	1:E:789:ASN:ND2	2.42	0.52
1:F:71:PHE:CG	1:F:73:ASN:HB2	2.44	0.52
1:F:305:SER:OG	1:F:307:LEU:HD13	2.09	0.52
1:F:443:GLU:O	1:F:455:TYR:HA	2.08	0.52
1:F:690:LYS:O	1:F:691:LYS:C	2.52	0.52
1:F:697:ILE:CD1	1:F:732:ILE:CD1	2.87	0.52
1:F:708:ALA:O	1:F:711:ILE:HG12	2.07	0.52
2:O:51:MET:O	2:O:55:VAL:HG12	2.09	0.52
2:O:66:PRO:C	2:O:68:PHE:H	2.16	0.52
2:R:56:ASP:C	2:R:58:ASP:H	2.15	0.52
2:S:15:ALA:HB1	2:S:35:VAL:CG1	2.39	0.52
2:S:55:VAL:HG22	2:S:55:VAL:O	2.09	0.52
1:A:109:ILE:HG22	1:A:109:ILE:O	2.08	0.52
1:A:148:GLU:HG3	1:A:149:THR:N	2.24	0.52
1:B:234:LEU:CD2	1:B:235:THR:HG23	2.39	0.52
1:B:412:GLU:HA	1:B:415:GLU:OE2	2.09	0.52
1:B:781:ASN:O	1:B:789:ASN:ND2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:SER:O	1:C:250:ALA:N	2.41	0.52
1:C:271:LEU:HD13	1:C:276:PHE:CE2	2.44	0.52
1:D:339:ILE:O	1:D:342:GLY:N	2.35	0.52
1:D:565:LYS:C	1:D:567:THR:H	2.17	0.52
1:D:658:PRO:HG3	1:D:752:LEU:CD2	2.37	0.52
1:E:715:GLU:HG3	1:E:767:GLN:HE21	1.74	0.52
1:F:611:THR:HG22	1:F:615:ILE:HD11	1.91	0.52
2:P:37:ARG:HA	2:P:41:GLN:O	2.10	0.52
2:P:117:THR:C	2:P:119:GLU:N	2.65	0.52
2:S:109:MET:HG3	2:S:116:LEU:CD1	2.39	0.52
2:T:111:ASN:C	2:T:113:GLY:H	2.17	0.52
1:A:71:PHE:CG	1:A:73:ASN:HB2	2.44	0.52
1:A:504:ILE:HD12	1:A:504:ILE:H	1.73	0.52
1:A:755:ARG:O	1:A:756:ILE:C	2.51	0.52
1:B:501:LEU:HD22	2:P:112:LEU:HG	1.91	0.52
1:C:79:ILE:O	1:C:81:GLN:N	2.43	0.52
1:C:165:GLN:HG2	1:C:251:PRO:CG	2.38	0.52
1:C:464:VAL:HG23	1:C:465:LEU:CD1	2.37	0.52
1:D:412:GLU:HA	1:D:415:GLU:OE2	2.08	0.52
1:D:633:ASN:O	1:D:642:TYR:HE1	1.91	0.52
1:D:781:ASN:O	1:D:789:ASN:ND2	2.41	0.52
1:D:789:ASN:O	1:D:792:VAL:HB	2.09	0.52
1:E:345:THR:HB	1:E:491:ASP:CB	2.35	0.52
1:F:172:GLU:HB3	1:F:246:SER:HA	1.90	0.52
1:F:692:GLU:CD	2:T:21:LYS:HZ1	2.16	0.52
2:O:109:MET:O	2:O:114:GLU:HB3	2.09	0.52
2:O:111:ASN:C	2:O:113:GLY:H	2.17	0.52
2:R:36:MET:O	2:R:40:GLY:N	2.43	0.52
1:A:71:PHE:O	1:A:78:LYS:NZ	2.43	0.52
1:A:76:LEU:HD22	1:A:76:LEU:N	2.18	0.52
1:A:706:ASN:O	2:O:130:ILE:HG23	2.08	0.52
1:A:739:LYS:HG2	1:A:740:GLN:H	1.74	0.52
1:B:184:LYS:CE	1:B:191:GLU:HB2	2.40	0.52
1:B:305:SER:HB2	1:B:594:PHE:CD1	2.44	0.52
1:B:327:LEU:HG	1:B:595:ILE:HG23	1.92	0.52
1:B:715:GLU:HG3	1:B:767:GLN:HE21	1.75	0.52
1:C:71:PHE:HB2	1:C:108:ASP:HB2	1.91	0.52
1:C:473:ASN:OD1	1:C:473:ASN:N	2.40	0.52
1:C:579:THR:C	1:C:581:GLN:H	2.16	0.52
1:C:609:GLU:OE2	1:C:609:GLU:N	2.35	0.52
1:D:76:LEU:O	1:D:77:ASP:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:118:GLN:HE22	1:D:143:PHE:HD2	1.56	0.52
1:D:171:TYR:O	1:D:171:TYR:CD1	2.62	0.52
1:D:353:LYS:H	1:D:368:GLN:NE2	2.06	0.52
1:E:171:TYR:O	1:E:175:LYS:NZ	2.42	0.52
1:F:217:LYS:CB	1:F:236:GLU:HG3	2.40	0.52
1:F:234:LEU:CD2	1:F:235:THR:HG23	2.40	0.52
1:F:345:THR:HB	1:F:491:ASP:CB	2.35	0.52
1:F:515:LYS:HB3	1:F:515:LYS:HZ2	1.73	0.52
1:F:533:LEU:O	1:F:533:LEU:HD22	2.09	0.52
1:F:789:ASN:O	1:F:792:VAL:HB	2.09	0.52
2:P:16:PHE:CZ	2:P:27:ILE:HG12	2.44	0.52
2:Q:16:PHE:CZ	2:Q:27:ILE:HG12	2.44	0.52
2:Q:49:GLN:O	2:Q:53:ASN:CB	2.58	0.52
2:R:16:PHE:CZ	2:R:27:ILE:HG12	2.45	0.52
2:R:49:GLN:O	2:R:53:ASN:CB	2.58	0.52
2:R:107:HIS:CG	2:R:107:HIS:O	2.63	0.52
2:S:28:THR:HG23	2:S:31:GLU:CD	2.34	0.52
2:T:16:PHE:CZ	2:T:27:ILE:HG12	2.45	0.52
2:T:100:ILE:HB	2:T:136:VAL:HG22	1.90	0.52
2:T:144:MET:HE1	2:T:145:MET:CE	2.39	0.52
1:B:79:ILE:O	1:B:81:GLN:N	2.42	0.52
1:B:456:LYS:HA	1:B:469:PHE:CE1	2.44	0.52
1:B:653:LYS:O	1:B:655:ASN:N	2.42	0.52
1:B:739:LYS:HG2	1:B:740:GLN:H	1.74	0.52
1:C:308:VAL:O	1:C:311:HIS:HB2	2.09	0.52
1:C:596:ILE:HG22	1:C:596:ILE:O	2.09	0.52
1:D:217:LYS:CB	1:D:236:GLU:HG3	2.39	0.52
1:D:246:SER:O	1:D:250:ALA:HB2	2.10	0.52
1:D:305:SER:OG	1:D:307:LEU:HD13	2.10	0.52
1:D:579:THR:C	1:D:581:GLN:H	2.17	0.52
1:D:628:PHE:CD1	1:D:645:TRP:CD1	2.98	0.52
1:E:118:GLN:HE22	1:E:143:PHE:HD2	1.57	0.52
1:E:400:LYS:HE3	1:E:475:GLU:CD	2.35	0.52
1:E:401:ILE:HD11	1:E:487:PRO:HD3	1.92	0.52
1:E:419:ILE:HD12	1:E:435:LEU:HD13	1.90	0.52
1:E:513:TRP:CZ3	1:E:517:VAL:HG11	2.45	0.52
1:F:454:GLN:HG2	1:F:473:ASN:HA	1.91	0.52
1:F:456:LYS:HA	1:F:469:PHE:CE1	2.44	0.52
1:F:679:TYR:CD1	1:F:679:TYR:O	2.63	0.52
2:O:28:THR:HG23	2:O:31:GLU:CD	2.34	0.52
2:O:109:MET:HG3	2:O:116:LEU:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:117:THR:C	2:O:119:GLU:N	2.66	0.52
2:P:36:MET:O	2:P:40:GLY:N	2.42	0.52
2:R:15:ALA:HB1	2:R:35:VAL:CG1	2.40	0.52
2:R:55:VAL:O	2:R:55:VAL:HG22	2.09	0.52
2:R:79:THR:C	2:R:81:SER:N	2.61	0.52
2:T:37:ARG:HA	2:T:41:GLN:O	2.10	0.52
1:A:293:ILE:CD1	1:A:617:LYS:HD3	2.37	0.52
1:B:217:LYS:CB	1:B:236:GLU:HG3	2.40	0.52
1:B:495:PHE:C	1:B:495:PHE:CD1	2.87	0.52
1:B:596:ILE:O	1:B:596:ILE:HG22	2.08	0.52
1:B:697:ILE:CD1	1:B:732:ILE:HD13	2.40	0.52
1:C:122:GLU:HG3	1:C:147:ARG:HB2	1.92	0.52
1:C:557:LEU:HG	1:C:575:VAL:CG1	2.39	0.52
1:D:76:LEU:O	1:D:78:LYS:N	2.43	0.52
1:D:739:LYS:HG2	1:D:740:GLN:H	1.74	0.52
1:E:79:ILE:C	1:E:81:GLN:N	2.68	0.52
1:E:172:GLU:HB3	1:E:246:SER:HA	1.90	0.52
1:F:419:ILE:HD12	1:F:435:LEU:HD13	1.91	0.52
1:F:480:ASN:ND2	1:F:483:GLY:HA2	2.24	0.52
2:O:15:ALA:HB1	2:O:35:VAL:CG1	2.39	0.52
2:P:144:MET:HE1	2:P:145:MET:CE	2.39	0.52
2:Q:117:THR:C	2:Q:119:GLU:N	2.66	0.52
2:R:76:MET:HA	2:R:76:MET:HE3	1.92	0.52
2:S:109:MET:O	2:S:114:GLU:HB3	2.10	0.52
2:T:72:MET:C	2:T:74:ARG:N	2.67	0.52
2:T:75:LYS:NZ	2:T:75:LYS:HB3	2.25	0.52
1:A:625:LEU:HD12	1:A:625:LEU:C	2.35	0.52
1:B:171:TYR:O	1:B:171:TYR:CD1	2.62	0.52
1:B:520:PRO:HG2	1:B:521:ASN:N	2.25	0.52
1:C:179:LEU:H	1:C:179:LEU:CD2	2.22	0.52
1:C:339:ILE:O	1:C:342:GLY:N	2.34	0.52
1:D:495:PHE:CD1	1:D:495:PHE:C	2.87	0.52
1:E:109:ILE:O	1:E:109:ILE:HG22	2.09	0.52
1:E:155:ASN:C	1:E:156:ILE:HD12	2.34	0.52
1:E:171:TYR:O	1:E:171:TYR:CD1	2.61	0.52
1:F:176:GLY:C	1:F:178:SER:N	2.65	0.52
1:F:561:ASN:C	1:F:563:ALA:N	2.68	0.52
1:F:697:ILE:CD1	1:F:732:ILE:HD13	2.39	0.52
2:P:16:PHE:O	2:P:17:SER:C	2.52	0.52
2:Q:16:PHE:O	2:Q:17:SER:C	2.52	0.52
2:R:51:MET:O	2:R:55:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:16:PHE:CZ	2:S:27:ILE:HG12	2.44	0.52
2:T:16:PHE:O	2:T:17:SER:C	2.53	0.52
1:A:741:ILE:O	1:A:742:ALA:C	2.53	0.52
1:B:444:PHE:CD2	1:B:455:TYR:HB3	2.44	0.52
1:B:579:THR:C	1:B:581:GLN:N	2.68	0.52
1:C:85:LEU:HD12	1:C:168:GLU:OE1	2.09	0.52
1:C:184:LYS:HE3	1:C:191:GLU:CB	2.39	0.52
1:C:517:VAL:HG23	1:C:518:ASN:ND2	2.25	0.52
1:E:308:VAL:O	1:E:311:HIS:HB2	2.10	0.52
1:E:501:LEU:HD22	2:S:112:LEU:HG	1.92	0.52
1:E:557:LEU:HG	1:E:575:VAL:CG1	2.38	0.52
1:E:581:GLN:O	1:E:629:ASN:HA	2.09	0.52
1:E:635:ILE:HD12	1:E:635:ILE:H	1.75	0.52
1:F:420:LEU:HD12	1:F:436:GLU:HB3	1.91	0.52
1:F:581:GLN:O	1:F:629:ASN:HA	2.09	0.52
1:F:628:PHE:CE2	2:T:90:ARG:CZ	2.93	0.52
2:O:12:PHE:HB3	2:O:68:PHE:HE2	1.73	0.52
1:A:184:LYS:HE3	1:A:191:GLU:CB	2.38	0.52
1:A:335:ALA:CB	1:A:489:THR:OG1	2.58	0.52
1:A:401:ILE:HD11	1:A:487:PRO:HD3	1.92	0.52
1:A:557:LEU:HG	1:A:575:VAL:CG1	2.39	0.52
1:A:637:PRO:O	1:A:640:LYS:HG3	2.10	0.52
1:A:695:LYS:HE3	2:O:19:PHE:CD1	2.45	0.52
1:A:715:GLU:HG3	1:A:718:ARG:NH1	2.16	0.52
1:B:561:ASN:C	1:B:563:ALA:N	2.67	0.52
1:B:715:GLU:HG3	1:B:718:ARG:NH1	2.16	0.52
1:B:755:ARG:O	1:B:756:ILE:C	2.52	0.52
1:C:172:GLU:O	1:C:176:GLY:N	2.37	0.52
1:C:420:LEU:HD12	1:C:436:GLU:HB3	1.92	0.52
1:E:81:GLN:OE1	1:E:156:ILE:HG21	2.10	0.52
2:O:19:PHE:CD1	2:O:19:PHE:N	2.75	0.52
2:R:111:ASN:C	2:R:113:GLY:H	2.16	0.52
2:S:88:ALA:O	2:S:91:VAL:HB	2.10	0.52
2:T:66:PRO:C	2:T:68:PHE:N	2.68	0.52
1:A:115:LYS:C	1:A:117:LEU:N	2.67	0.52
1:A:180:ASP:O	1:A:183:SER:N	2.39	0.52
1:A:454:GLN:HG2	1:A:473:ASN:HA	1.91	0.52
1:A:480:ASN:ND2	1:A:483:GLY:HA2	2.24	0.52
1:A:520:PRO:HG2	1:A:521:ASN:N	2.25	0.52
1:A:789:ASN:O	1:A:792:VAL:HB	2.10	0.52
1:B:99:GLU:C	1:B:101:GLY:N	2.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:131:ARG:HG3	1:B:243:LEU:CD1	2.39	0.52
1:B:184:LYS:HD2	1:B:191:GLU:HB2	1.92	0.52
1:B:480:ASN:ND2	1:B:483:GLY:HA2	2.24	0.52
1:B:611:THR:HG22	1:B:615:ILE:HD11	1.91	0.52
1:B:637:PRO:O	1:B:640:LYS:HG3	2.10	0.52
1:C:501:LEU:HD22	2:Q:112:LEU:HG	1.92	0.52
1:C:628:PHE:CE2	2:Q:90:ARG:CZ	2.93	0.52
1:C:697:ILE:CD1	1:C:732:ILE:CD1	2.86	0.52
1:D:310:GLU:O	1:D:314:ALA:HB2	2.10	0.52
1:D:637:PRO:O	1:D:640:LYS:HG3	2.10	0.52
1:D:741:ILE:O	1:D:742:ALA:C	2.53	0.52
1:E:505:LYS:HD3	2:S:112:LEU:O	2.10	0.52
2:Q:146:THR:O	2:Q:147:ALA:C	2.53	0.52
1:A:499:PRO:CG	1:A:504:ILE:HD11	2.34	0.51
1:A:513:TRP:CZ3	1:A:517:VAL:HG11	2.45	0.51
1:B:191:GLU:O	1:B:193:LEU:N	2.42	0.51
1:B:305:SER:OG	1:B:307:LEU:HD13	2.10	0.51
1:B:732:ILE:HG23	1:B:749:PHE:HD1	1.75	0.51
1:C:512:GLU:HA	1:C:515:LYS:HZ2	1.75	0.51
1:C:643:ILE:CG2	1:C:644:GLU:H	2.20	0.51
1:C:666:ASN:HB2	1:C:748:TYR:OH	2.10	0.51
1:C:781:ASN:O	1:C:789:ASN:ND2	2.43	0.51
1:D:122:GLU:HG3	1:D:147:ARG:HB2	1.92	0.51
1:E:191:GLU:O	1:E:194:ASN:N	2.43	0.51
1:E:234:LEU:CD2	1:E:235:THR:HG23	2.40	0.51
1:E:364:ILE:O	1:E:477:MET:HG2	2.10	0.51
1:E:596:ILE:O	1:E:596:ILE:HG22	2.10	0.51
1:E:598:PRO:HG3	1:E:624:TYR:OH	2.10	0.51
1:F:335:ALA:CB	1:F:489:THR:OG1	2.58	0.51
1:F:444:PHE:HA	1:F:454:GLN:O	2.10	0.51
2:Q:28:THR:HG23	2:Q:31:GLU:CD	2.35	0.51
2:S:111:ASN:C	2:S:113:GLY:H	2.17	0.51
2:T:49:GLN:O	2:T:53:ASN:CB	2.58	0.51
1:A:118:GLN:HE22	1:A:143:PHE:HD2	1.57	0.51
1:A:192:PHE:O	1:A:196:ILE:HG13	2.10	0.51
1:B:76:LEU:O	1:B:77:ASP:C	2.53	0.51
1:B:171:TYR:O	1:B:175:LYS:NZ	2.43	0.51
1:B:246:SER:O	1:B:250:ALA:HB2	2.11	0.51
1:B:263:ASP:O	1:B:266:GLU:N	2.44	0.51
1:C:692:GLU:CD	2:Q:21:LYS:HZ1	2.19	0.51
1:D:180:ASP:O	1:D:183:SER:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:246:SER:O	1:F:250:ALA:HB2	2.09	0.51
1:F:353:LYS:H	1:F:368:GLN:NE2	2.06	0.51
1:F:401:ILE:HD11	1:F:487:PRO:HD3	1.92	0.51
2:P:55:VAL:O	2:P:55:VAL:HG22	2.09	0.51
2:P:75:LYS:NZ	2:P:75:LYS:HB3	2.25	0.51
2:Q:19:PHE:CD2	2:Q:34:THR:HG22	2.45	0.51
2:S:16:PHE:O	2:S:17:SER:C	2.53	0.51
2:T:63:ILE:HG23	2:T:67:GLU:HB3	1.90	0.51
1:A:102:GLY:CA	1:A:150:PRO:HG2	2.40	0.51
1:A:165:GLN:C	1:A:167:LYS:N	2.68	0.51
1:A:364:ILE:O	1:A:477:MET:HG2	2.11	0.51
1:A:732:ILE:HG23	1:A:749:PHE:HD1	1.75	0.51
1:B:76:LEU:O	1:B:78:LYS:N	2.43	0.51
1:B:249:PHE:O	1:B:250:ALA:C	2.52	0.51
1:B:364:ILE:O	1:B:477:MET:HG2	2.10	0.51
1:C:115:LYS:C	1:C:117:LEU:N	2.66	0.51
1:C:148:GLU:HG3	1:C:149:THR:N	2.24	0.51
1:C:217:LYS:CB	1:C:236:GLU:HG3	2.39	0.51
1:D:76:LEU:HD22	1:D:76:LEU:N	2.19	0.51
1:D:131:ARG:HB2	1:D:243:LEU:HD21	1.92	0.51
1:D:559:ARG:O	1:D:563:ALA:HB2	2.10	0.51
1:F:79:ILE:O	1:F:81:GLN:N	2.44	0.51
1:F:81:GLN:OE1	1:F:156:ILE:HG21	2.09	0.51
1:F:115:LYS:C	1:F:117:LEU:N	2.68	0.51
1:F:559:ARG:O	1:F:563:ALA:HB2	2.10	0.51
1:F:565:LYS:C	1:F:567:THR:H	2.18	0.51
2:Q:15:ALA:HB1	2:Q:35:VAL:CG1	2.40	0.51
2:R:28:THR:HG23	2:R:31:GLU:CD	2.34	0.51
2:S:37:ARG:HA	2:S:41:GLN:O	2.10	0.51
2:S:49:GLN:O	2:S:53:ASN:CB	2.58	0.51
1:A:419:ILE:HD12	1:A:435:LEU:HD13	1.92	0.51
1:B:115:LYS:C	1:B:117:LEU:H	2.18	0.51
1:B:540:ARG:HH22	1:B:630:ARG:HE	1.59	0.51
1:B:557:LEU:HG	1:B:575:VAL:CG1	2.39	0.51
1:C:345:THR:HB	1:C:491:ASP:CB	2.36	0.51
1:C:700:TYR:CD1	1:C:728:ALA:N	2.78	0.51
1:D:115:LYS:HA	1:D:115:LYS:NZ	2.23	0.51
1:D:401:ILE:HD11	1:D:487:PRO:HD3	1.92	0.51
1:D:513:TRP:CZ3	1:D:517:VAL:HG11	2.45	0.51
1:E:180:ASP:O	1:E:183:SER:N	2.37	0.51
1:E:293:ILE:CD1	1:E:617:LYS:HD3	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:625:LEU:HD12	1:E:625:LEU:C	2.35	0.51
1:E:739:LYS:HG2	1:E:740:GLN:H	1.74	0.51
1:F:118:GLN:HE22	1:F:143:PHE:HD2	1.58	0.51
1:F:182:ILE:C	1:F:183:SER:O	2.50	0.51
2:P:28:THR:HG23	2:P:31:GLU:CD	2.36	0.51
2:Q:109:MET:HG3	2:Q:116:LEU:CD1	2.41	0.51
2:R:37:ARG:HA	2:R:41:GLN:O	2.10	0.51
1:A:165:GLN:HG2	1:A:251:PRO:CG	2.38	0.51
1:B:509:PRO:HG2	1:B:512:GLU:HG3	1.92	0.51
1:B:533:LEU:O	1:B:533:LEU:HD22	2.09	0.51
1:C:387:ASN:O	1:C:390:SER:HB2	2.11	0.51
1:D:189:ASP:HB3	1:D:190:PRO:HD2	1.93	0.51
1:D:345:THR:HB	1:D:491:ASP:CB	2.36	0.51
1:D:711:ILE:O	1:D:712:PHE:HD2	1.93	0.51
1:E:115:LYS:C	1:E:117:LEU:N	2.67	0.51
1:E:509:PRO:HG2	1:E:512:GLU:HG3	1.92	0.51
1:F:579:THR:C	1:F:581:GLN:N	2.69	0.51
2:P:19:PHE:CD1	2:P:19:PHE:N	2.75	0.51
2:Q:66:PRO:C	2:Q:68:PHE:N	2.68	0.51
2:Q:66:PRO:O	2:Q:68:PHE:N	2.44	0.51
2:S:19:PHE:CD1	2:S:19:PHE:N	2.74	0.51
2:S:75:LYS:NZ	2:S:75:LYS:HB3	2.25	0.51
1:A:387:ASN:O	1:A:390:SER:HB2	2.11	0.51
1:A:517:VAL:HG23	1:A:518:ASN:ND2	2.25	0.51
1:A:565:LYS:C	1:A:567:THR:H	2.17	0.51
1:B:115:LYS:C	1:B:117:LEU:N	2.66	0.51
1:B:387:ASN:HD22	1:B:387:ASN:N	2.07	0.51
1:C:246:SER:O	1:C:250:ALA:HB2	2.10	0.51
1:C:279:ILE:HG22	1:C:283:LEU:HD13	1.93	0.51
1:C:387:ASN:HD22	1:C:387:ASN:N	2.09	0.51
1:C:520:PRO:HG2	1:C:521:ASN:N	2.25	0.51
1:D:509:PRO:HG2	1:D:512:GLU:HG3	1.91	0.51
1:D:724:ARG:HA	1:D:727:GLN:HG3	1.93	0.51
1:E:165:GLN:HG2	1:E:251:PRO:CG	2.39	0.51
1:E:191:GLU:O	1:E:192:PHE:C	2.54	0.51
1:E:218:LEU:C	1:E:220:LEU:H	2.14	0.51
1:E:741:ILE:O	1:E:742:ALA:C	2.53	0.51
1:F:622:LYS:HG3	1:F:623:ASP:H	1.75	0.51
2:P:15:ALA:HB1	2:P:35:VAL:CG1	2.40	0.51
2:Q:109:MET:O	2:Q:114:GLU:HB3	2.11	0.51
2:R:19:PHE:CD2	2:R:34:THR:HG22	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:41:GLN:C	2:R:43:PRO:CD	2.80	0.51
2:S:66:PRO:C	2:S:68:PHE:N	2.68	0.51
2:T:19:PHE:CD2	2:T:34:THR:HG22	2.46	0.51
2:T:117:THR:C	2:T:119:GLU:N	2.66	0.51
1:A:400:LYS:HE3	1:A:475:GLU:CD	2.36	0.51
1:A:597:ASN:HB2	1:A:598:PRO:HD2	1.93	0.51
1:A:697:ILE:CD1	1:A:732:ILE:CD1	2.89	0.51
1:B:279:ILE:HG22	1:B:283:LEU:HD13	1.91	0.51
1:B:658:PRO:HB3	1:B:755:ARG:NH1	2.26	0.51
1:C:401:ILE:HD11	1:C:487:PRO:HD3	1.92	0.51
1:C:565:LYS:C	1:C:567:THR:H	2.18	0.51
1:D:234:LEU:CG	1:D:235:THR:N	2.74	0.51
1:D:520:PRO:HG2	1:D:521:ASN:N	2.25	0.51
1:D:692:GLU:CD	2:R:21:LYS:HZ1	2.18	0.51
1:E:122:GLU:HG3	1:E:147:ARG:H	1.76	0.51
1:E:175:LYS:HB2	1:E:175:LYS:HZ2	1.73	0.51
1:E:444:PHE:HA	1:E:454:GLN:O	2.10	0.51
1:E:622:LYS:HG3	1:E:623:ASP:H	1.75	0.51
1:F:148:GLU:HG3	1:F:149:THR:N	2.24	0.51
1:F:275:GLY:O	1:F:278:LYS:HB2	2.11	0.51
1:F:501:LEU:HD22	2:T:112:LEU:HG	1.93	0.51
2:P:13:LYS:C	2:P:15:ALA:N	2.69	0.51
2:P:49:GLN:O	2:P:53:ASN:CB	2.58	0.51
2:P:68:PHE:O	2:P:69:LEU:C	2.54	0.51
2:Q:37:ARG:HA	2:Q:41:GLN:O	2.11	0.51
2:R:66:PRO:C	2:R:68:PHE:N	2.69	0.51
2:S:12:PHE:HB3	2:S:68:PHE:HE2	1.75	0.51
2:S:28:THR:OG1	2:S:29:THR:N	2.43	0.51
2:T:109:MET:HG3	2:T:116:LEU:CD1	2.41	0.51
1:A:76:LEU:O	1:A:77:ASP:C	2.54	0.51
1:A:171:TYR:O	1:A:171:TYR:CD1	2.62	0.51
1:A:501:LEU:HD22	2:O:112:LEU:HG	1.93	0.51
1:A:658:PRO:HG3	1:A:752:LEU:CD2	2.40	0.51
1:A:697:ILE:HG23	1:A:732:ILE:HD11	1.92	0.51
1:B:279:ILE:HG22	1:B:283:LEU:HD11	1.93	0.51
1:C:118:GLN:HE22	1:C:143:PHE:HD2	1.58	0.51
1:C:559:ARG:O	1:C:563:ALA:HB2	2.11	0.51
1:D:364:ILE:O	1:D:477:MET:HG2	2.10	0.51
1:E:148:GLU:HG3	1:E:149:THR:N	2.24	0.51
1:E:234:LEU:CG	1:E:235:THR:N	2.74	0.51
1:E:457:THR:HG23	1:E:469:PHE:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:565:LYS:C	1:E:567:THR:H	2.17	0.51
1:F:653:LYS:O	1:F:655:ASN:N	2.44	0.51
2:O:55:VAL:O	2:O:55:VAL:HG22	2.09	0.51
2:O:88:ALA:O	2:O:91:VAL:HB	2.11	0.51
2:P:51:MET:O	2:P:55:VAL:HG12	2.11	0.51
2:Q:51:MET:O	2:Q:55:VAL:HG12	2.11	0.51
2:S:45:GLU:N	2:S:45:GLU:CD	2.68	0.51
2:S:51:MET:O	2:S:55:VAL:HG12	2.11	0.51
2:S:52:ILE:HD13	2:S:63:ILE:HD11	1.92	0.51
2:S:107:HIS:CG	2:S:107:HIS:O	2.63	0.51
2:T:109:MET:O	2:T:114:GLU:HB3	2.10	0.51
1:A:76:LEU:O	1:A:78:LYS:N	2.44	0.51
1:A:234:LEU:CD2	1:A:235:THR:HG23	2.41	0.51
1:A:622:LYS:HG3	1:A:623:ASP:H	1.75	0.51
1:A:628:PHE:CE2	2:O:90:ARG:CZ	2.94	0.51
1:B:171:TYR:HD1	1:B:175:LYS:NZ	2.08	0.51
1:B:444:PHE:HA	1:B:454:GLN:O	2.11	0.51
1:B:559:ARG:O	1:B:563:ALA:HB2	2.11	0.51
1:C:495:PHE:CD1	1:C:495:PHE:C	2.87	0.51
1:C:597:ASN:HB2	1:C:598:PRO:HD2	1.93	0.51
1:D:115:LYS:C	1:D:117:LEU:N	2.67	0.51
1:D:170:TYR:O	1:D:174:GLY:N	2.44	0.51
1:D:236:GLU:HA	1:D:239:HIS:HD2	1.73	0.51
1:D:619:ILE:O	1:D:620:THR:C	2.54	0.51
1:E:179:LEU:H	1:E:179:LEU:CD2	2.22	0.51
1:F:318:ILE:HD12	1:F:318:ILE:N	2.25	0.51
1:F:700:TYR:CD1	1:F:728:ALA:N	2.77	0.51
2:O:129:ASP:OD1	2:O:134:GLY:N	2.38	0.51
2:O:144:MET:HE1	2:O:145:MET:HE2	1.93	0.51
2:P:66:PRO:C	2:P:68:PHE:N	2.68	0.51
1:A:79:ILE:O	1:A:81:GLN:N	2.44	0.51
1:A:192:PHE:HD1	1:A:192:PHE:H	1.59	0.51
1:B:102:GLY:CA	1:B:150:PRO:HG2	2.41	0.51
1:B:345:THR:HB	1:B:491:ASP:CB	2.35	0.51
1:B:493:ASP:OD2	1:B:577:HIS:CE1	2.63	0.51
1:B:513:TRP:CZ3	1:B:517:VAL:HG11	2.46	0.51
1:C:76:LEU:HD22	1:C:76:LEU:N	2.19	0.51
1:C:263:ASP:O	1:C:266:GLU:N	2.44	0.51
1:C:305:SER:OG	1:C:307:LEU:HD13	2.10	0.51
1:D:410:ILE:HD11	1:D:435:LEU:HD11	1.93	0.51
1:D:658:PRO:HB3	1:D:755:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:171:TYR:HD1	1:E:175:LYS:NZ	2.09	0.51
1:E:254:ARG:HB3	1:E:254:ARG:NH1	2.23	0.51
1:E:339:ILE:O	1:E:342:GLY:N	2.36	0.51
1:E:410:ILE:HD11	1:E:435:LEU:HD11	1.92	0.51
1:F:180:ASP:O	1:F:183:SER:N	2.39	0.51
1:F:311:HIS:HE1	1:F:339:ILE:HG22	1.75	0.51
1:F:364:ILE:O	1:F:477:MET:HG2	2.11	0.51
1:F:457:THR:HG23	1:F:469:PHE:H	1.76	0.51
1:F:513:TRP:CZ3	1:F:517:VAL:HG11	2.46	0.51
2:P:19:PHE:CD2	2:P:34:THR:HG22	2.46	0.51
2:Q:111:ASN:C	2:Q:113:GLY:H	2.17	0.51
2:R:75:LYS:HB3	2:R:75:LYS:NZ	2.26	0.51
2:R:88:ALA:O	2:R:91:VAL:HB	2.11	0.51
2:R:146:THR:O	2:R:147:ALA:C	2.54	0.51
2:S:66:PRO:O	2:S:68:PHE:N	2.44	0.51
2:T:28:THR:HG23	2:T:31:GLU:CD	2.35	0.51
1:A:679:TYR:CD1	1:A:679:TYR:O	2.64	0.50
1:B:79:ILE:C	1:B:81:GLN:N	2.69	0.50
1:B:679:TYR:CD1	1:B:679:TYR:O	2.65	0.50
1:B:708:ALA:C	1:B:710:HIS:N	2.69	0.50
1:C:171:TYR:O	1:C:175:LYS:NZ	2.44	0.50
1:C:690:LYS:O	1:C:691:LYS:C	2.54	0.50
1:D:529:VAL:O	1:D:532:LEU:HB2	2.11	0.50
1:D:533:LEU:O	1:D:533:LEU:HD22	2.11	0.50
1:D:622:LYS:HG3	1:D:623:ASP:H	1.75	0.50
1:E:679:TYR:CD1	1:E:679:TYR:O	2.64	0.50
1:E:724:ARG:HA	1:E:727:GLN:HG3	1.92	0.50
1:F:165:GLN:C	1:F:167:LYS:N	2.69	0.50
1:F:171:TYR:HD1	1:F:175:LYS:NZ	2.09	0.50
2:O:16:PHE:O	2:O:17:SER:C	2.53	0.50
2:O:37:ARG:HA	2:O:41:GLN:O	2.11	0.50
2:P:109:MET:HG3	2:P:116:LEU:CD1	2.41	0.50
1:A:179:LEU:H	1:A:179:LEU:CD2	2.21	0.50
1:A:318:ILE:HD12	1:A:318:ILE:N	2.25	0.50
1:A:444:PHE:HA	1:A:454:GLN:O	2.11	0.50
1:B:71:PHE:CG	1:B:73:ASN:HB2	2.46	0.50
1:B:345:THR:HG22	1:B:490:ALA:O	2.10	0.50
1:B:741:ILE:O	1:B:742:ALA:C	2.54	0.50
1:C:115:LYS:C	1:C:117:LEU:H	2.19	0.50
1:C:197:LYS:HD3	1:C:263:ASP:HB3	1.93	0.50
1:C:697:ILE:HG23	1:C:732:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:480:ASN:ND2	1:D:483:GLY:HA2	2.25	0.50
1:D:715:GLU:HG3	1:D:767:GLN:HE21	1.75	0.50
1:E:192:PHE:O	1:E:196:ILE:HG13	2.12	0.50
1:E:559:ARG:O	1:E:563:ALA:HB2	2.10	0.50
1:E:597:ASN:HB2	1:E:598:PRO:HD2	1.93	0.50
1:E:710:HIS:O	1:E:712:PHE:N	2.44	0.50
1:F:179:LEU:H	1:F:179:LEU:CD2	2.22	0.50
1:F:400:LYS:HE3	1:F:475:GLU:CD	2.36	0.50
2:O:75:LYS:HB3	2:O:75:LYS:NZ	2.26	0.50
2:T:66:PRO:O	2:T:68:PHE:N	2.44	0.50
2:T:146:THR:O	2:T:147:ALA:C	2.53	0.50
1:A:559:ARG:O	1:A:563:ALA:HB2	2.11	0.50
1:A:653:LYS:O	1:A:655:ASN:N	2.45	0.50
1:B:234:LEU:CG	1:B:235:THR:N	2.75	0.50
1:C:327:LEU:HG	1:C:595:ILE:HG23	1.93	0.50
1:C:364:ILE:O	1:C:477:MET:HG2	2.11	0.50
1:C:513:TRP:CZ3	1:C:517:VAL:HG11	2.47	0.50
1:C:741:ILE:O	1:C:742:ALA:C	2.54	0.50
1:D:322:LEU:HA	1:D:503:GLU:OE2	2.11	0.50
1:D:444:PHE:HA	1:D:454:GLN:O	2.11	0.50
1:D:517:VAL:HB	1:D:525:LYS:HZ1	1.77	0.50
1:E:76:LEU:HD22	1:E:76:LEU:N	2.17	0.50
1:E:182:ILE:C	1:E:183:SER:O	2.53	0.50
1:E:189:ASP:HB3	1:E:190:PRO:CD	2.38	0.50
1:E:234:LEU:HD23	1:E:234:LEU:N	2.27	0.50
1:F:102:GLY:CA	1:F:150:PRO:HG2	2.41	0.50
2:Q:75:LYS:NZ	2:Q:75:LYS:HB3	2.26	0.50
2:R:16:PHE:O	2:R:17:SER:C	2.54	0.50
2:R:106:ARG:HG3	2:R:106:ARG:HH21	1.76	0.50
2:S:19:PHE:CD2	2:S:34:THR:HG22	2.46	0.50
1:A:85:LEU:HD12	1:A:168:GLU:OE1	2.11	0.50
1:A:234:LEU:CG	1:A:235:THR:N	2.75	0.50
1:B:179:LEU:H	1:B:179:LEU:CD2	2.22	0.50
1:B:297:LYS:HG2	1:B:603:ILE:HG12	1.94	0.50
1:B:387:ASN:O	1:B:390:SER:HB2	2.11	0.50
1:D:148:GLU:HG3	1:D:149:THR:N	2.24	0.50
1:D:165:GLN:C	1:D:167:LYS:N	2.69	0.50
1:D:185:ASP:O	1:D:190:PRO:HA	2.12	0.50
1:D:473:ASN:OD1	1:D:473:ASN:N	2.41	0.50
1:D:597:ASN:HB2	1:D:598:PRO:HD2	1.94	0.50
1:D:628:PHE:CE2	2:R:90:ARG:CZ	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:LYS:N	1:E:368:GLN:HE22	2.06	0.50
1:E:518:ASN:N	1:E:518:ASN:ND2	2.60	0.50
1:E:626:TYR:CD2	1:E:627:TYR:N	2.80	0.50
1:F:279:ILE:HG22	1:F:283:LEU:HD13	1.93	0.50
1:F:504:ILE:HD12	1:F:504:ILE:H	1.75	0.50
1:F:619:ILE:O	1:F:620:THR:C	2.53	0.50
1:F:736:LEU:HD11	1:F:750:GLN:NE2	2.27	0.50
2:P:41:GLN:O	2:P:43:PRO:HD2	2.09	0.50
2:Q:63:ILE:CG2	2:Q:67:GLU:HB2	2.41	0.50
2:S:117:THR:C	2:S:119:GLU:H	2.19	0.50
2:T:104:GLU:HA	2:T:107:HIS:HB3	1.93	0.50
1:A:279:ILE:HG22	1:A:283:LEU:HD13	1.93	0.50
1:A:457:THR:HG23	1:A:469:PHE:H	1.76	0.50
1:A:629:ASN:ND2	1:A:631:SER:CB	2.73	0.50
1:B:81:GLN:OE1	1:B:156:ILE:HG21	2.11	0.50
1:B:419:ILE:HD12	1:B:435:LEU:HD13	1.93	0.50
1:C:88:LYS:HZ3	1:C:172:GLU:CD	2.19	0.50
1:C:444:PHE:HA	1:C:454:GLN:O	2.11	0.50
1:C:505:LYS:HD3	2:Q:112:LEU:O	2.12	0.50
1:D:293:ILE:CD1	1:D:617:LYS:HD3	2.37	0.50
1:D:679:TYR:CD1	1:D:679:TYR:O	2.65	0.50
1:D:690:LYS:O	1:D:691:LYS:C	2.52	0.50
1:E:197:LYS:HD3	1:E:263:ASP:HB3	1.93	0.50
1:E:236:GLU:HA	1:E:239:HIS:HD2	1.73	0.50
1:E:263:ASP:O	1:E:266:GLU:N	2.45	0.50
1:E:732:ILE:HG23	1:E:749:PHE:HD1	1.76	0.50
1:F:104:ILE:HG23	1:F:152:LEU:CD2	2.41	0.50
1:F:234:LEU:CG	1:F:235:THR:N	2.74	0.50
1:F:499:PRO:CG	1:F:504:ILE:HD11	2.33	0.50
1:F:708:ALA:C	1:F:710:HIS:H	2.18	0.50
2:P:66:PRO:O	2:P:68:PHE:N	2.44	0.50
2:P:117:THR:C	2:P:119:GLU:H	2.19	0.50
2:P:146:THR:O	2:P:147:ALA:C	2.54	0.50
2:S:68:PHE:O	2:S:70:THR:N	2.45	0.50
2:T:117:THR:C	2:T:119:GLU:H	2.19	0.50
1:A:401:ILE:HG21	1:A:485:LEU:HB3	1.94	0.50
1:B:85:LEU:HD12	1:B:168:GLU:OE1	2.11	0.50
1:B:88:LYS:HZ3	1:B:172:GLU:CD	2.19	0.50
1:B:457:THR:HG23	1:B:469:PHE:H	1.77	0.50
1:B:711:ILE:O	1:B:712:PHE:HD2	1.94	0.50
1:C:234:LEU:HD23	1:C:234:LEU:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:234:LEU:CD2	1:C:235:THR:HG23	2.41	0.50
1:C:311:HIS:HE1	1:C:339:ILE:HG22	1.76	0.50
1:E:311:HIS:HE1	1:E:339:ILE:HG22	1.77	0.50
1:E:523:LEU:HD11	2:S:144:MET:CG	2.42	0.50
1:E:708:ALA:C	1:E:710:HIS:N	2.70	0.50
1:F:197:LYS:HD3	1:F:263:ASP:HB3	1.94	0.50
1:F:517:VAL:HG23	1:F:518:ASN:ND2	2.26	0.50
1:A:724:ARG:HA	1:A:727:GLN:HG3	1.94	0.50
1:B:622:LYS:HG3	1:B:623:ASP:H	1.75	0.50
1:B:629:ASN:ND2	1:B:631:SER:CB	2.74	0.50
1:C:715:GLU:HG3	1:C:767:GLN:HE21	1.75	0.50
1:D:99:GLU:C	1:D:101:GLY:N	2.69	0.50
1:D:625:LEU:HD12	1:D:625:LEU:C	2.37	0.50
1:E:115:LYS:C	1:E:117:LEU:H	2.20	0.50
1:E:527:LYS:O	1:E:529:VAL:N	2.45	0.50
1:F:234:LEU:HD23	1:F:234:LEU:N	2.27	0.50
1:F:715:GLU:HG3	1:F:767:GLN:HE21	1.76	0.50
2:P:12:PHE:O	2:P:15:ALA:HB3	2.12	0.50
2:Q:104:GLU:HA	2:Q:107:HIS:HB3	1.94	0.50
2:Q:117:THR:C	2:Q:119:GLU:H	2.20	0.50
2:R:45:GLU:CD	2:R:45:GLU:N	2.68	0.50
2:R:63:ILE:CG2	2:R:67:GLU:HB2	2.42	0.50
2:R:72:MET:C	2:R:74:ARG:N	2.66	0.50
1:A:619:ILE:O	1:A:620:THR:C	2.53	0.50
1:A:660:SER:O	1:A:663:PHE:HB3	2.12	0.50
1:B:122:GLU:HG3	1:B:147:ARG:H	1.77	0.50
1:B:191:GLU:O	1:B:192:PHE:C	2.54	0.50
1:B:625:LEU:HD12	1:B:625:LEU:C	2.36	0.50
1:C:297:LYS:NZ	1:C:601:GLU:OE1	2.31	0.50
1:C:353:LYS:N	1:C:368:GLN:HE22	2.08	0.50
1:D:131:ARG:HG3	1:D:243:LEU:HD13	1.94	0.50
1:D:234:LEU:CD2	1:D:235:THR:HG23	2.41	0.50
1:D:400:LYS:HE3	1:D:475:GLU:CD	2.36	0.50
1:D:505:LYS:HD3	2:R:112:LEU:O	2.12	0.50
1:D:708:ALA:C	1:D:710:HIS:H	2.19	0.50
1:E:88:LYS:HZ3	1:E:172:GLU:CD	2.19	0.50
1:E:432:TYR:HE1	1:E:445:ARG:CZ	2.25	0.50
1:E:493:ASP:OD2	1:E:577:HIS:CE1	2.65	0.50
1:E:637:PRO:O	1:E:640:LYS:HG3	2.11	0.50
1:E:729:TYR:O	1:E:730:ASN:C	2.55	0.50
1:F:401:ILE:HG21	1:F:485:LEU:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:625:LEU:HD12	1:F:625:LEU:C	2.37	0.50
1:F:729:TYR:O	1:F:730:ASN:C	2.55	0.50
2:P:88:ALA:O	2:P:91:VAL:HB	2.11	0.50
2:Q:68:PHE:O	2:Q:69:LEU:C	2.55	0.50
2:S:106:ARG:HG3	2:S:106:ARG:HH21	1.77	0.50
2:S:144:MET:HE1	2:S:145:MET:HE2	1.94	0.50
1:A:122:GLU:HG3	1:A:147:ARG:H	1.76	0.50
1:A:295:VAL:C	1:A:296:LEU:CD2	2.80	0.50
1:B:170:TYR:O	1:B:174:GLY:N	2.44	0.50
1:B:401:ILE:HD11	1:B:487:PRO:HD3	1.94	0.50
1:B:517:VAL:HG23	1:B:518:ASN:ND2	2.26	0.50
1:C:199:LEU:C	1:C:201:ASP:N	2.64	0.50
1:C:622:LYS:HG3	1:C:623:ASP:H	1.75	0.50
1:C:708:ALA:C	1:C:710:HIS:H	2.20	0.50
1:C:744:GLU:CD	1:C:744:GLU:H	2.20	0.50
1:D:71:PHE:O	1:D:78:LYS:NZ	2.45	0.50
1:D:217:LYS:HB3	1:D:217:LYS:HZ2	1.76	0.50
1:D:700:TYR:CD1	1:D:728:ALA:N	2.78	0.50
1:F:185:ASP:O	1:F:190:PRO:HA	2.12	0.50
1:F:199:LEU:C	1:F:201:ASP:N	2.63	0.50
1:F:509:PRO:HG2	1:F:512:GLU:HG3	1.94	0.50
2:O:63:ILE:CG2	2:O:67:GLU:HB2	2.41	0.50
2:P:104:GLU:HA	2:P:107:HIS:HB3	1.94	0.50
2:S:144:MET:HE1	2:S:145:MET:CE	2.41	0.50
2:T:41:GLN:C	2:T:43:PRO:CD	2.78	0.50
1:A:99:GLU:C	1:A:101:GLY:N	2.67	0.49
1:A:353:LYS:N	1:A:368:GLN:HE22	2.07	0.49
1:A:729:TYR:O	1:A:730:ASN:C	2.55	0.49
1:B:400:LYS:HE3	1:B:475:GLU:CD	2.36	0.49
1:B:493:ASP:OD2	1:B:577:HIS:HE1	1.95	0.49
1:B:627:TYR:C	1:B:627:TYR:CD1	2.90	0.49
1:C:131:ARG:HB2	1:C:243:LEU:HD21	1.93	0.49
1:C:171:TYR:O	1:C:171:TYR:CD1	2.62	0.49
1:C:660:SER:O	1:C:663:PHE:HB3	2.12	0.49
1:E:90:PRO:HD3	1:E:249:PHE:CE2	2.47	0.49
1:E:142:VAL:CG2	1:E:154:ILE:HD12	2.38	0.49
1:E:246:SER:O	1:E:250:ALA:HB2	2.12	0.49
1:E:517:VAL:HG23	1:E:518:ASN:ND2	2.25	0.49
1:F:410:ILE:HD11	1:F:435:LEU:HD11	1.93	0.49
1:F:714:GLN:O	1:F:715:GLU:C	2.55	0.49
1:F:731:GLU:HA	1:F:734:ASN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:732:ILE:HG23	1:F:749:PHE:HD1	1.76	0.49
2:O:84:GLU:N	2:O:84:GLU:OE2	2.45	0.49
2:O:104:GLU:HA	2:O:107:HIS:HB3	1.94	0.49
2:P:129:ASP:OD2	2:P:140:GLU:OE2	2.29	0.49
2:Q:41:GLN:C	2:Q:43:PRO:CD	2.79	0.49
2:R:66:PRO:O	2:R:68:PHE:N	2.45	0.49
2:S:13:LYS:C	2:S:15:ALA:N	2.70	0.49
1:A:171:TYR:HD1	1:A:175:LYS:NZ	2.09	0.49
1:A:182:ILE:HA	1:A:187:SER:HA	1.94	0.49
1:A:218:LEU:C	1:A:220:LEU:H	2.16	0.49
1:A:254:ARG:HB3	1:A:254:ARG:NH1	2.20	0.49
1:A:724:ARG:HG3	1:A:724:ARG:HH11	1.77	0.49
1:A:767:GLN:HG2	1:A:768:LYS:N	2.27	0.49
1:B:165:GLN:C	1:B:167:LYS:N	2.69	0.49
1:B:180:ASP:O	1:B:183:SER:N	2.39	0.49
1:B:192:PHE:HD1	1:B:192:PHE:H	1.60	0.49
1:B:731:GLU:HA	1:B:734:ASN:HB2	1.94	0.49
1:C:719:LYS:HE3	1:C:797:ILE:HD11	1.93	0.49
1:D:165:GLN:HG2	1:D:251:PRO:CG	2.39	0.49
1:D:387:ASN:O	1:D:390:SER:HB2	2.12	0.49
1:F:115:LYS:C	1:F:117:LEU:H	2.20	0.49
1:F:658:PRO:HB3	1:F:755:ARG:NH1	2.26	0.49
1:F:671:ARG:HH11	1:F:671:ARG:HG3	1.77	0.49
2:P:63:ILE:CG2	2:P:67:GLU:HB2	2.42	0.49
1:A:279:ILE:HG22	1:A:283:LEU:HD11	1.93	0.49
1:A:297:LYS:HG2	1:A:603:ILE:HG12	1.94	0.49
1:A:561:ASN:C	1:A:563:ALA:N	2.67	0.49
1:B:182:ILE:C	1:B:183:SER:O	2.50	0.49
1:B:234:LEU:HD23	1:B:234:LEU:N	2.27	0.49
1:C:170:TYR:O	1:C:174:GLY:N	2.44	0.49
1:C:279:ILE:HG22	1:C:283:LEU:HD11	1.93	0.49
1:C:318:ILE:HD12	1:C:318:ILE:N	2.27	0.49
1:C:627:TYR:CD1	1:C:627:TYR:C	2.91	0.49
1:C:653:LYS:O	1:C:655:ASN:N	2.44	0.49
1:C:724:ARG:HA	1:C:727:GLN:HG3	1.94	0.49
1:D:79:ILE:C	1:D:81:GLN:N	2.68	0.49
1:D:279:ILE:HG22	1:D:283:LEU:HD13	1.94	0.49
1:D:457:THR:HG23	1:D:469:PHE:H	1.76	0.49
1:D:523:LEU:HD11	2:R:144:MET:CG	2.42	0.49
1:E:131:ARG:HG3	1:E:243:LEU:CD1	2.43	0.49
1:E:633:ASN:O	1:E:642:TYR:CE1	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:100:LEU:HD22	1:F:182:ILE:HG21	1.93	0.49
2:R:104:GLU:HA	2:R:107:HIS:HB3	1.94	0.49
2:R:109:MET:HG3	2:R:116:LEU:CD1	2.41	0.49
2:T:68:PHE:O	2:T:69:LEU:C	2.55	0.49
1:A:79:ILE:C	1:A:81:GLN:N	2.69	0.49
1:B:218:LEU:C	1:B:220:LEU:H	2.15	0.49
1:B:401:ILE:HG21	1:B:485:LEU:HB3	1.94	0.49
1:B:432:TYR:HE1	1:B:445:ARG:CZ	2.25	0.49
1:B:561:ASN:C	1:B:563:ALA:H	2.21	0.49
1:B:565:LYS:C	1:B:567:THR:H	2.19	0.49
1:C:102:GLY:CA	1:C:150:PRO:HG2	2.42	0.49
1:C:289:GLU:HA	1:C:292:ARG:HG3	1.94	0.49
1:C:658:PRO:HB3	1:C:755:ARG:NH1	2.27	0.49
1:D:708:ALA:C	1:D:710:HIS:N	2.70	0.49
1:E:170:TYR:O	1:E:174:GLY:N	2.45	0.49
1:F:263:ASP:O	1:F:266:GLU:N	2.45	0.49
1:F:339:ILE:O	1:F:342:GLY:N	2.37	0.49
1:F:432:TYR:HE1	1:F:445:ARG:CZ	2.25	0.49
1:F:708:ALA:C	1:F:710:HIS:N	2.68	0.49
2:O:68:PHE:O	2:O:69:LEU:C	2.56	0.49
2:O:72:MET:C	2:O:74:ARG:N	2.66	0.49
2:T:63:ILE:CG2	2:T:67:GLU:HB2	2.43	0.49
2:T:68:PHE:O	2:T:70:THR:N	2.45	0.49
1:A:185:ASP:O	1:A:190:PRO:HA	2.13	0.49
1:A:311:HIS:HE1	1:A:339:ILE:HG22	1.77	0.49
1:A:523:LEU:HD11	2:O:144:MET:CG	2.43	0.49
1:A:731:GLU:HA	1:A:734:ASN:HB2	1.94	0.49
1:B:131:ARG:HB2	1:B:243:LEU:HD21	1.94	0.49
1:B:172:GLU:HG3	1:B:245:PHE:HE1	1.78	0.49
1:B:633:ASN:O	1:B:642:TYR:CE1	2.65	0.49
1:B:690:LYS:O	1:B:691:LYS:C	2.56	0.49
1:B:729:TYR:O	1:B:730:ASN:C	2.55	0.49
1:C:192:PHE:H	1:C:192:PHE:HD1	1.61	0.49
1:C:379:ALA:O	1:C:383:GLY:N	2.45	0.49
1:C:480:ASN:HD22	1:C:481:VAL:N	2.10	0.49
1:C:579:THR:C	1:C:581:GLN:N	2.69	0.49
1:C:695:LYS:HE3	2:Q:19:PHE:CD1	2.47	0.49
1:D:653:LYS:O	1:D:655:ASN:N	2.45	0.49
1:D:710:HIS:O	1:D:712:PHE:N	2.46	0.49
1:E:297:LYS:HB3	1:E:297:LYS:HZ3	1.77	0.49
1:E:387:ASN:O	1:E:390:SER:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:480:ASN:ND2	1:E:483:GLY:HA2	2.26	0.49
1:F:192:PHE:O	1:F:196:ILE:HG13	2.12	0.49
1:F:217:LYS:HZ1	1:F:233:ASN:HB3	1.76	0.49
1:F:405:LEU:HD13	1:F:453:VAL:CG2	2.40	0.49
2:O:19:PHE:CD2	2:O:34:THR:HG22	2.48	0.49
2:O:49:GLN:O	2:O:53:ASN:CB	2.59	0.49
2:O:52:ILE:HD13	2:O:63:ILE:HD11	1.93	0.49
2:Q:41:GLN:O	2:Q:43:PRO:HD2	2.10	0.49
2:R:68:PHE:O	2:R:70:THR:N	2.45	0.49
1:B:104:ILE:HG23	1:B:152:LEU:CD2	2.43	0.49
1:B:724:ARG:HA	1:B:727:GLN:HG3	1.93	0.49
1:C:234:LEU:CG	1:C:235:THR:N	2.75	0.49
1:C:410:ILE:HD11	1:C:435:LEU:HD11	1.95	0.49
1:C:419:ILE:HD12	1:C:435:LEU:HD13	1.93	0.49
1:C:457:THR:HG23	1:C:469:PHE:H	1.77	0.49
1:C:480:ASN:ND2	1:C:483:GLY:HA2	2.26	0.49
1:C:637:PRO:O	1:C:640:LYS:HG3	2.12	0.49
1:D:192:PHE:O	1:D:196:ILE:HG13	2.13	0.49
1:D:218:LEU:C	1:D:220:LEU:H	2.14	0.49
1:D:234:LEU:HD23	1:D:234:LEU:N	2.27	0.49
1:D:729:TYR:O	1:D:730:ASN:C	2.56	0.49
1:E:191:GLU:O	1:E:193:LEU:N	2.45	0.49
1:E:225:ILE:HG12	1:E:229:PHE:HD2	1.77	0.49
1:E:504:ILE:HD12	1:E:504:ILE:H	1.76	0.49
1:E:711:ILE:O	1:E:712:PHE:HD2	1.95	0.49
1:F:379:ALA:O	1:F:383:GLY:N	2.44	0.49
1:F:523:LEU:HD11	2:T:144:MET:CG	2.42	0.49
1:F:767:GLN:HG2	1:F:768:LYS:N	2.28	0.49
2:Q:129:ASP:OD2	2:Q:140:GLU:OE2	2.31	0.49
1:A:172:GLU:HG3	1:A:245:PHE:HE1	1.78	0.49
1:A:234:LEU:HD23	1:A:234:LEU:N	2.27	0.49
1:B:175:LYS:O	1:B:176:GLY:C	2.55	0.49
1:B:697:ILE:CD1	1:B:732:ILE:CD1	2.90	0.49
1:C:331:VAL:O	1:C:332:ASN:C	2.56	0.49
1:C:432:TYR:HE1	1:C:445:ARG:CZ	2.25	0.49
1:C:625:LEU:HD12	1:C:625:LEU:C	2.37	0.49
1:D:89:ILE:HG22	1:D:90:PRO:HD2	1.94	0.49
1:D:753:LYS:O	1:D:754:GLU:C	2.55	0.49
1:E:188:LEU:HD12	1:E:191:GLU:HG3	1.94	0.49
1:E:279:ILE:HG22	1:E:283:LEU:HD11	1.93	0.49
1:F:387:ASN:O	1:F:390:SER:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:88:ALA:O	2:Q:91:VAL:HB	2.13	0.49
2:S:100:ILE:HB	2:S:136:VAL:HG22	1.93	0.49
2:S:104:GLU:HA	2:S:107:HIS:HB3	1.94	0.49
2:T:28:THR:OG1	2:T:29:THR:N	2.44	0.49
1:A:732:ILE:O	1:A:733:GLU:C	2.56	0.49
1:B:379:ALA:O	1:B:383:GLY:N	2.45	0.49
1:C:518:ASN:N	1:C:518:ASN:ND2	2.61	0.49
1:C:671:ARG:HH11	1:C:671:ARG:HG3	1.78	0.49
1:D:192:PHE:HD1	1:D:192:PHE:H	1.61	0.49
1:D:263:ASP:O	1:D:266:GLU:N	2.45	0.49
1:D:432:TYR:HE1	1:D:445:ARG:CZ	2.26	0.49
1:D:515:LYS:HB3	1:D:515:LYS:HZ3	1.75	0.49
1:D:767:GLN:HG2	1:D:768:LYS:N	2.28	0.49
1:E:254:ARG:H	1:E:254:ARG:CD	2.19	0.49
1:E:381:GLU:O	1:E:385:LEU:HD23	2.13	0.49
1:E:405:LEU:HD13	1:E:453:VAL:CG2	2.41	0.49
1:E:692:GLU:HA	1:E:692:GLU:OE2	2.13	0.49
1:E:708:ALA:C	1:E:710:HIS:H	2.21	0.49
1:E:731:GLU:HA	1:E:734:ASN:HB2	1.95	0.49
1:E:767:GLN:HG2	1:E:768:LYS:N	2.27	0.49
1:F:122:GLU:HG3	1:F:147:ARG:H	1.77	0.49
1:F:175:LYS:O	1:F:176:GLY:C	2.55	0.49
1:F:331:VAL:O	1:F:332:ASN:C	2.56	0.49
1:F:633:ASN:O	1:F:642:TYR:CE1	2.65	0.49
1:F:697:ILE:HG23	1:F:732:ILE:HD11	1.94	0.49
1:F:724:ARG:HA	1:F:727:GLN:HG3	1.93	0.49
1:F:744:GLU:CD	1:F:744:GLU:H	2.20	0.49
2:O:41:GLN:O	2:O:43:PRO:HD2	2.11	0.49
2:S:117:THR:O	2:S:119:GLU:N	2.46	0.49
1:A:180:ASP:HA	1:A:183:SER:CB	2.43	0.49
1:A:182:ILE:C	1:A:183:SER:O	2.50	0.49
1:A:700:TYR:CD1	1:A:728:ALA:N	2.77	0.49
1:B:182:ILE:HA	1:B:187:SER:HA	1.94	0.49
1:C:217:LYS:HB3	1:C:217:LYS:HZ2	1.77	0.49
1:C:353:LYS:H	1:C:368:GLN:NE2	2.06	0.49
1:C:400:LYS:HE3	1:C:475:GLU:CD	2.37	0.49
1:D:311:HIS:HE1	1:D:339:ILE:HG22	1.78	0.49
1:D:666:ASN:HB2	1:D:748:TYR:OH	2.12	0.49
1:E:192:PHE:HD1	1:E:192:PHE:H	1.61	0.49
1:E:666:ASN:HB2	1:E:748:TYR:OH	2.12	0.49
1:F:172:GLU:HG3	1:F:245:PHE:HE1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:626:TYR:CD2	1:F:627:TYR:N	2.81	0.49
1:F:629:ASN:ND2	1:F:631:SER:CB	2.73	0.49
1:F:741:ILE:O	1:F:742:ALA:C	2.54	0.49
2:O:66:PRO:C	2:O:68:PHE:N	2.69	0.49
2:R:68:PHE:O	2:R:69:LEU:C	2.55	0.49
2:R:92:PHE:H	2:R:92:PHE:HD1	1.61	0.49
2:R:117:THR:C	2:R:119:GLU:H	2.20	0.49
2:S:63:ILE:CG2	2:S:67:GLU:HB2	2.42	0.49
1:A:197:LYS:HD3	1:A:263:ASP:HB3	1.94	0.49
1:A:410:ILE:HD11	1:A:435:LEU:HD11	1.94	0.49
1:A:505:LYS:HD3	2:O:112:LEU:O	2.13	0.49
1:B:505:LYS:HD3	2:P:112:LEU:O	2.13	0.49
1:B:619:ILE:O	1:B:620:THR:C	2.55	0.49
1:B:710:HIS:O	1:B:712:PHE:N	2.46	0.49
1:C:90:PRO:HD3	1:C:249:PHE:CE2	2.48	0.49
1:C:493:ASP:OD2	1:C:577:HIS:CE1	2.66	0.49
1:C:731:GLU:HA	1:C:734:ASN:HB2	1.95	0.49
1:D:104:ILE:HG23	1:D:152:LEU:CD2	2.43	0.49
1:D:270:LYS:HA	1:D:273:LYS:HG3	1.95	0.49
1:D:456:LYS:HB2	1:D:469:PHE:O	2.13	0.49
1:D:561:ASN:C	1:D:563:ALA:N	2.68	0.49
1:E:92:ASP:O	1:E:93:VAL:C	2.56	0.49
1:E:175:LYS:O	1:E:176:GLY:C	2.56	0.49
1:E:353:LYS:H	1:E:368:GLN:NE2	2.04	0.49
1:E:379:ALA:O	1:E:383:GLY:N	2.44	0.49
1:E:446:ILE:HG13	1:E:451:ASN:O	2.13	0.49
1:E:513:TRP:CH2	2:S:114:GLU:HB2	2.48	0.49
1:E:700:TYR:CD1	1:E:728:ALA:N	2.78	0.49
1:F:131:ARG:HB2	1:F:243:LEU:HD21	1.94	0.49
1:F:381:GLU:O	1:F:385:LEU:HD23	2.13	0.49
1:F:530:THR:O	1:F:534:ILE:HG13	2.13	0.49
2:O:28:THR:OG1	2:O:29:THR:N	2.44	0.49
2:O:50:ASP:CA	2:O:53:ASN:HB3	2.31	0.49
2:O:68:PHE:O	2:O:70:THR:N	2.46	0.49
2:Q:106:ARG:HH21	2:Q:106:ARG:HG3	1.78	0.49
2:S:68:PHE:O	2:S:69:LEU:C	2.55	0.49
1:A:493:ASP:OD2	1:A:577:HIS:CE1	2.65	0.48
1:A:708:ALA:C	1:A:710:HIS:N	2.71	0.48
1:B:295:VAL:C	1:B:296:LEU:CD2	2.81	0.48
1:B:518:ASN:N	1:B:518:ASN:ND2	2.61	0.48
1:B:700:TYR:CD1	1:B:728:ALA:N	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:708:ALA:C	1:B:710:HIS:H	2.20	0.48
1:C:100:LEU:HD22	1:C:182:ILE:HG21	1.95	0.48
1:C:401:ILE:HG21	1:C:485:LEU:HB3	1.95	0.48
1:C:554:LYS:O	1:C:557:LEU:N	2.46	0.48
1:C:629:ASN:ND2	1:C:631:SER:CB	2.74	0.48
1:C:688:PHE:C	1:C:688:PHE:HD2	2.20	0.48
1:D:122:GLU:HG3	1:D:147:ARG:H	1.77	0.48
1:D:279:ILE:HG22	1:D:283:LEU:HD11	1.93	0.48
1:D:493:ASP:OD2	1:D:577:HIS:CE1	2.66	0.48
1:D:639:ASN:ND2	1:D:639:ASN:N	2.50	0.48
1:D:731:GLU:HA	1:D:734:ASN:HB2	1.95	0.48
1:E:100:LEU:HD22	1:E:182:ILE:HG21	1.94	0.48
1:E:318:ILE:N	1:E:318:ILE:HD12	2.27	0.48
1:E:432:TYR:CE1	1:E:445:ARG:CZ	2.96	0.48
1:E:671:ARG:HH11	1:E:671:ARG:HG3	1.78	0.48
1:E:684:ASP:C	1:E:686:ASP:H	2.21	0.48
1:F:182:ILE:HA	1:F:187:SER:HA	1.95	0.48
1:F:597:ASN:HD22	1:F:603:ILE:HD11	1.78	0.48
2:P:52:ILE:HD13	2:P:63:ILE:HD11	1.94	0.48
2:Q:52:ILE:HD13	2:Q:63:ILE:HD11	1.94	0.48
2:R:52:ILE:HD13	2:R:63:ILE:HD11	1.94	0.48
2:T:52:ILE:HD13	2:T:63:ILE:HD11	1.93	0.48
2:T:88:ALA:O	2:T:91:VAL:HB	2.13	0.48
2:T:129:ASP:OD2	2:T:140:GLU:OE2	2.31	0.48
1:A:172:GLU:CB	1:A:246:SER:HA	2.44	0.48
1:A:322:LEU:HA	1:A:503:GLU:OE2	2.14	0.48
1:B:171:TYR:CD1	1:B:175:LYS:NZ	2.81	0.48
1:B:311:HIS:HE1	1:B:339:ILE:HG22	1.78	0.48
1:B:318:ILE:N	1:B:318:ILE:HD12	2.27	0.48
1:B:410:ILE:HD11	1:B:435:LEU:HD11	1.94	0.48
1:B:432:TYR:CE1	1:B:445:ARG:CZ	2.96	0.48
1:B:523:LEU:HD11	2:P:144:MET:CG	2.43	0.48
1:C:767:GLN:HG2	1:C:768:LYS:N	2.28	0.48
1:D:142:VAL:CG2	1:D:154:ILE:HD12	2.36	0.48
1:D:171:TYR:HD1	1:D:175:LYS:NZ	2.10	0.48
1:D:197:LYS:HD3	1:D:263:ASP:HB3	1.94	0.48
1:D:318:ILE:HD12	1:D:318:ILE:N	2.27	0.48
1:D:395:GLU:C	1:D:397:GLU:H	2.21	0.48
1:D:692:GLU:OE2	1:D:692:GLU:HA	2.13	0.48
1:D:713:SER:O	1:D:714:GLN:C	2.56	0.48
1:E:279:ILE:HG22	1:E:283:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:561:ASN:C	1:E:563:ALA:H	2.20	0.48
1:E:619:ILE:O	1:E:620:THR:C	2.56	0.48
1:F:88:LYS:HZ3	1:F:172:GLU:CD	2.21	0.48
1:F:753:LYS:O	1:F:754:GLU:C	2.56	0.48
2:O:129:ASP:OD2	2:O:140:GLU:OE2	2.31	0.48
2:P:45:GLU:CD	2:P:45:GLU:N	2.70	0.48
2:P:106:ARG:HH21	2:P:106:ARG:HG3	1.77	0.48
2:Q:144:MET:HE1	2:Q:145:MET:CE	2.42	0.48
2:R:84:GLU:N	2:R:84:GLU:OE2	2.46	0.48
1:A:270:LYS:HA	1:A:273:LYS:HG3	1.95	0.48
1:A:405:LEU:HD13	1:A:453:VAL:CG2	2.43	0.48
1:A:432:TYR:HE1	1:A:445:ARG:CZ	2.26	0.48
1:B:100:LEU:HD22	1:B:182:ILE:HG21	1.94	0.48
1:B:142:VAL:CG2	1:B:154:ILE:HD12	2.37	0.48
1:B:297:LYS:NZ	1:B:601:GLU:OE1	2.33	0.48
1:B:767:GLN:HG2	1:B:768:LYS:N	2.28	0.48
1:C:619:ILE:O	1:C:620:THR:C	2.56	0.48
1:C:633:ASN:O	1:C:642:TYR:CE1	2.66	0.48
1:C:732:ILE:HG23	1:C:749:PHE:HD1	1.77	0.48
1:D:90:PRO:HD3	1:D:249:PHE:CE2	2.47	0.48
1:D:102:GLY:CA	1:D:150:PRO:HG2	2.42	0.48
1:D:115:LYS:C	1:D:117:LEU:H	2.19	0.48
1:D:331:VAL:O	1:D:332:ASN:C	2.56	0.48
1:D:684:ASP:C	1:D:686:ASP:H	2.21	0.48
1:D:732:ILE:HG23	1:D:749:PHE:HD1	1.77	0.48
1:E:102:GLY:CA	1:E:150:PRO:HG2	2.42	0.48
1:E:395:GLU:C	1:E:397:GLU:H	2.21	0.48
1:E:714:GLN:O	1:E:715:GLU:C	2.57	0.48
1:F:527:LYS:HG2	2:T:145:MET:SD	2.54	0.48
1:F:632:TYR:CE2	1:F:643:ILE:HG21	2.47	0.48
2:P:68:PHE:O	2:P:70:THR:N	2.45	0.48
2:Q:12:PHE:O	2:Q:15:ALA:HB3	2.13	0.48
2:R:13:LYS:C	2:R:15:ALA:N	2.70	0.48
2:T:41:GLN:O	2:T:43:PRO:HD2	2.11	0.48
2:T:51:MET:O	2:T:55:VAL:HG12	2.12	0.48
1:A:81:GLN:OE1	1:A:156:ILE:HG21	2.13	0.48
1:A:131:ARG:HB2	1:A:243:LEU:HD21	1.95	0.48
1:A:753:LYS:O	1:A:754:GLU:C	2.55	0.48
1:B:297:LYS:HB3	1:B:297:LYS:HZ3	1.79	0.48
1:B:351:HIS:HB2	1:B:386:GLU:HG3	1.95	0.48
1:B:660:SER:O	1:B:663:PHE:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:736:LEU:HD11	1:B:750:GLN:NE2	2.27	0.48
1:C:188:LEU:HD12	1:C:191:GLU:HG3	1.95	0.48
1:C:359:PRO:HG2	1:C:360:VAL:H	1.78	0.48
1:C:395:GLU:C	1:C:397:GLU:H	2.21	0.48
1:C:432:TYR:CE1	1:C:445:ARG:CZ	2.96	0.48
1:C:629:ASN:ND2	1:C:631:SER:N	2.62	0.48
1:C:665:LYS:HE2	2:Q:11:GLU:OE1	2.13	0.48
1:C:708:ALA:C	1:C:710:HIS:N	2.70	0.48
1:D:77:ASP:OD1	1:D:159:TYR:HE2	1.96	0.48
1:D:165:GLN:CD	1:D:252:ASP:HB3	2.39	0.48
1:D:235:THR:O	1:D:238:GLN:HB2	2.14	0.48
1:D:432:TYR:CE1	1:D:445:ARG:CZ	2.96	0.48
1:D:579:THR:C	1:D:581:GLN:N	2.69	0.48
1:D:597:ASN:HD22	1:D:603:ILE:HD11	1.77	0.48
1:E:235:THR:O	1:E:238:GLN:HB2	2.14	0.48
1:E:289:GLU:HA	1:E:292:ARG:HG3	1.93	0.48
1:E:653:LYS:O	1:E:655:ASN:N	2.46	0.48
1:F:131:ARG:HG2	1:F:131:ARG:HH11	1.78	0.48
1:F:684:ASP:C	1:F:686:ASP:H	2.21	0.48
2:O:146:THR:O	2:O:147:ALA:C	2.54	0.48
2:P:28:THR:OG1	2:P:29:THR:N	2.44	0.48
2:T:117:THR:O	2:T:119:GLU:N	2.47	0.48
1:A:377:GLN:O	1:A:381:GLU:HB2	2.14	0.48
1:A:561:ASN:C	1:A:563:ALA:H	2.21	0.48
1:A:633:ASN:O	1:A:642:TYR:CE1	2.67	0.48
1:A:639:ASN:ND2	1:A:639:ASN:N	2.49	0.48
1:A:690:LYS:O	1:A:691:LYS:C	2.54	0.48
1:B:97:TYR:OH	1:B:150:PRO:HB2	2.13	0.48
1:B:165:GLN:HG2	1:B:251:PRO:CG	2.40	0.48
1:B:331:VAL:O	1:B:332:ASN:C	2.57	0.48
1:B:443:GLU:HG3	1:B:458:LYS:HG2	1.96	0.48
1:B:480:ASN:ND2	1:B:481:VAL:N	2.62	0.48
1:B:719:LYS:HE3	1:B:797:ILE:HD11	1.95	0.48
1:C:171:TYR:HD1	1:C:175:LYS:NZ	2.11	0.48
1:C:351:HIS:HB2	1:C:386:GLU:HG3	1.95	0.48
1:C:480:ASN:ND2	1:C:481:VAL:N	2.60	0.48
1:C:753:LYS:O	1:C:754:GLU:C	2.57	0.48
1:D:792:VAL:O	1:D:793:PHE:C	2.56	0.48
1:E:660:SER:O	1:E:663:PHE:HB3	2.14	0.48
1:F:92:ASP:O	1:F:93:VAL:C	2.56	0.48
1:F:432:TYR:CE1	1:F:445:ARG:CZ	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:513:TRP:CH2	2:T:114:GLU:HB2	2.48	0.48
2:O:66:PRO:O	2:O:68:PHE:N	2.45	0.48
2:O:117:THR:C	2:O:119:GLU:H	2.20	0.48
2:P:117:THR:O	2:P:119:GLU:N	2.46	0.48
2:P:117:THR:O	2:P:120:GLU:N	2.47	0.48
2:R:100:ILE:HB	2:R:136:VAL:HG22	1.93	0.48
2:S:32:LEU:O	2:S:32:LEU:HD12	2.13	0.48
1:A:100:LEU:HD22	1:A:182:ILE:HG21	1.95	0.48
1:A:115:LYS:C	1:A:117:LEU:H	2.20	0.48
1:A:387:ASN:N	1:A:387:ASN:ND2	2.61	0.48
1:A:456:LYS:HB2	1:A:469:PHE:O	2.14	0.48
1:A:456:LYS:HB3	1:A:471:TRP:N	2.29	0.48
1:B:480:ASN:HD22	1:B:481:VAL:N	2.11	0.48
1:C:71:PHE:C	1:C:73:ASN:H	2.21	0.48
1:C:235:THR:O	1:C:238:GLN:HB2	2.13	0.48
1:D:653:LYS:C	1:D:655:ASN:N	2.72	0.48
1:E:456:LYS:HB3	1:E:471:TRP:N	2.29	0.48
1:E:732:ILE:O	1:E:733:GLU:C	2.57	0.48
1:F:395:GLU:C	1:F:397:GLU:H	2.21	0.48
2:P:84:GLU:OE2	2:P:84:GLU:N	2.46	0.48
2:Q:19:PHE:CD1	2:Q:19:PHE:N	2.75	0.48
2:Q:68:PHE:O	2:Q:70:THR:N	2.46	0.48
2:Q:84:GLU:OE2	2:Q:84:GLU:N	2.44	0.48
2:R:19:PHE:CD1	2:R:19:PHE:N	2.75	0.48
1:A:90:PRO:HD3	1:A:249:PHE:CE2	2.48	0.48
1:A:597:ASN:HD22	1:A:603:ILE:HD11	1.79	0.48
1:B:697:ILE:HG23	1:B:732:ILE:HD11	1.94	0.48
1:C:131:ARG:HG3	1:C:243:LEU:HD13	1.95	0.48
1:C:523:LEU:HD11	2:Q:144:MET:CG	2.44	0.48
1:C:711:ILE:O	1:C:712:PHE:HD2	1.96	0.48
1:D:456:LYS:HB3	1:D:471:TRP:N	2.28	0.48
1:D:714:GLN:O	1:D:715:GLU:C	2.54	0.48
1:E:116:GLU:HG3	1:E:117:LEU:CD2	2.44	0.48
1:E:164:GLU:O	1:E:167:LYS:HG2	2.13	0.48
1:E:401:ILE:HG21	1:E:485:LEU:HB3	1.96	0.48
1:E:753:LYS:O	1:E:754:GLU:C	2.56	0.48
1:F:270:LYS:HA	1:F:273:LYS:HG3	1.96	0.48
1:F:322:LEU:HA	1:F:503:GLU:OE2	2.14	0.48
1:F:493:ASP:OD2	1:F:577:HIS:CE1	2.67	0.48
1:F:665:LYS:HE2	2:T:11:GLU:OE1	2.13	0.48
1:F:732:ILE:O	1:F:733:GLU:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:792:VAL:O	1:F:793:PHE:C	2.56	0.48
2:P:126:ARG:HH21	2:P:126:ARG:HG3	1.79	0.48
2:P:144:MET:HE1	2:P:145:MET:HE2	1.96	0.48
1:A:71:PHE:HB2	1:A:108:ASP:HB2	1.96	0.48
1:A:205:SER:C	1:A:207:ASP:N	2.72	0.48
1:A:252:ASP:OD2	1:A:253:HIS:CD2	2.67	0.48
1:A:263:ASP:O	1:A:266:GLU:N	2.46	0.48
1:A:381:GLU:O	1:A:385:LEU:HD23	2.13	0.48
1:A:432:TYR:CE1	1:A:445:ARG:CZ	2.97	0.48
1:A:579:THR:C	1:A:581:GLN:N	2.70	0.48
1:A:658:PRO:HB3	1:A:755:ARG:NH1	2.28	0.48
1:B:116:GLU:HG3	1:B:117:LEU:CD2	2.44	0.48
1:B:173:ILE:O	1:B:175:LYS:N	2.47	0.48
1:B:217:LYS:HZ2	1:B:236:GLU:HB2	1.79	0.48
1:C:97:TYR:OH	1:C:150:PRO:HB2	2.14	0.48
1:C:165:GLN:C	1:C:167:LYS:N	2.69	0.48
1:C:298:GLY:O	1:C:300:LYS:N	2.47	0.48
1:C:381:GLU:O	1:C:385:LEU:HD23	2.14	0.48
1:C:597:ASN:HD22	1:C:603:ILE:HD11	1.78	0.48
1:D:335:ALA:CB	1:D:489:THR:OG1	2.61	0.48
1:D:697:ILE:HG23	1:D:732:ILE:HD11	1.96	0.48
1:E:131:ARG:HG2	1:E:131:ARG:HH11	1.79	0.48
1:E:165:GLN:C	1:E:167:LYS:N	2.70	0.48
1:E:345:THR:HG22	1:E:490:ALA:O	2.14	0.48
1:E:736:LEU:HD11	1:E:750:GLN:NE2	2.29	0.48
1:F:254:ARG:H	1:F:254:ARG:CD	2.20	0.48
1:F:456:LYS:HB3	1:F:471:TRP:N	2.28	0.48
1:F:517:VAL:HB	1:F:525:LYS:NZ	2.29	0.48
1:F:637:PRO:O	1:F:640:LYS:HG3	2.12	0.48
1:F:653:LYS:C	1:F:655:ASN:N	2.72	0.48
2:Q:28:THR:OG1	2:Q:29:THR:N	2.44	0.48
2:Q:117:THR:O	2:Q:119:GLU:N	2.47	0.48
2:R:12:PHE:O	2:R:15:ALA:HB3	2.14	0.48
1:A:302:LEU:HD13	1:A:602:PHE:CE1	2.49	0.48
1:A:353:LYS:H	1:A:368:GLN:NE2	2.06	0.48
1:A:509:PRO:HG2	1:A:512:GLU:HG3	1.95	0.48
1:A:626:TYR:CD2	1:A:627:TYR:N	2.82	0.48
1:A:714:GLN:O	1:A:715:GLU:C	2.55	0.48
1:B:71:PHE:O	1:B:78:LYS:NZ	2.47	0.48
1:B:180:ASP:HA	1:B:183:SER:CB	2.44	0.48
1:B:381:GLU:O	1:B:385:LEU:HD23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:254:ARG:HB3	1:C:254:ARG:NH1	2.23	0.48
1:C:529:VAL:O	1:C:532:LEU:HB2	2.13	0.48
1:C:648:PRO:HD2	2:Q:90:ARG:HD3	1.95	0.48
1:C:658:PRO:HG3	1:C:752:LEU:CD2	2.40	0.48
1:C:729:TYR:O	1:C:730:ASN:C	2.56	0.48
1:C:736:LEU:HD11	1:C:750:GLN:NE2	2.29	0.48
1:C:792:VAL:O	1:C:793:PHE:C	2.57	0.48
1:D:252:ASP:OD2	1:D:253:HIS:CD2	2.67	0.48
1:D:263:ASP:O	1:D:264:MET:C	2.57	0.48
1:D:401:ILE:HG21	1:D:485:LEU:HB3	1.96	0.48
1:D:719:LYS:HE3	1:D:797:ILE:HD11	1.95	0.48
1:E:683:GLY:O	1:E:684:ASP:C	2.55	0.48
1:E:792:VAL:O	1:E:793:PHE:C	2.57	0.48
1:F:192:PHE:H	1:F:192:PHE:HD1	1.62	0.48
1:F:351:HIS:HB2	1:F:386:GLU:HG3	1.96	0.48
1:F:505:LYS:HD3	2:T:112:LEU:O	2.13	0.48
1:F:627:TYR:CD1	1:F:627:TYR:C	2.92	0.48
1:F:660:SER:O	1:F:663:PHE:HB3	2.14	0.48
1:F:711:ILE:O	1:F:712:PHE:HD2	1.96	0.48
2:S:29:THR:O	2:S:30:LYS:C	2.57	0.48
2:T:19:PHE:CD1	2:T:19:PHE:N	2.74	0.48
2:T:68:PHE:C	2:T:70:THR:N	2.72	0.48
1:A:684:ASP:C	1:A:686:ASP:H	2.22	0.48
1:B:192:PHE:O	1:B:196:ILE:HG13	2.14	0.48
1:B:446:ILE:HG13	1:B:451:ASN:O	2.13	0.48
1:B:456:LYS:HB3	1:B:471:TRP:N	2.28	0.48
1:B:792:VAL:O	1:B:793:PHE:C	2.56	0.48
1:C:172:GLU:CB	1:C:246:SER:HA	2.44	0.48
1:C:357:TRP:HZ3	1:C:439:ASN:CB	2.24	0.48
1:C:513:TRP:CH2	2:Q:114:GLU:HB2	2.49	0.48
1:C:692:GLU:HA	1:C:692:GLU:OE2	2.14	0.48
1:D:446:ILE:HG13	1:D:451:ASN:O	2.14	0.48
1:D:456:LYS:HD3	1:D:471:TRP:CG	2.49	0.48
1:D:627:TYR:CD1	1:D:627:TYR:C	2.92	0.48
1:D:629:ASN:ND2	1:D:631:SER:CB	2.73	0.48
1:D:736:LEU:HD11	1:D:750:GLN:NE2	2.28	0.48
1:E:529:VAL:O	1:E:532:LEU:HB2	2.14	0.48
1:E:629:ASN:ND2	1:E:631:SER:CB	2.71	0.48
2:O:17:SER:OG	2:O:18:LEU:N	2.46	0.48
2:O:41:GLN:C	2:O:43:PRO:CD	2.80	0.48
2:O:117:THR:O	2:O:120:GLU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:13:LYS:C	2:Q:15:ALA:N	2.70	0.48
2:Q:68:PHE:C	2:Q:70:THR:N	2.72	0.48
2:S:129:ASP:OD2	2:S:140:GLU:OE2	2.32	0.48
2:T:29:THR:O	2:T:30:LYS:C	2.57	0.48
2:T:106:ARG:HG3	2:T:106:ARG:HH21	1.79	0.48
1:A:331:VAL:O	1:A:332:ASN:C	2.56	0.47
1:A:395:GLU:C	1:A:397:GLU:H	2.20	0.47
1:A:648:PRO:O	1:A:649:ILE:C	2.57	0.47
1:A:653:LYS:C	1:A:655:ASN:N	2.72	0.47
1:A:666:ASN:HB2	1:A:748:TYR:OH	2.13	0.47
1:A:736:LEU:HD11	1:A:750:GLN:NE2	2.28	0.47
1:C:192:PHE:O	1:C:196:ILE:HG13	2.14	0.47
1:C:297:LYS:HG2	1:C:603:ILE:HG12	1.95	0.47
1:C:405:LEU:HD13	1:C:453:VAL:CG2	2.43	0.47
1:C:714:GLN:O	1:C:715:GLU:C	2.56	0.47
1:D:405:LEU:HD13	1:D:453:VAL:CG2	2.43	0.47
1:E:331:VAL:O	1:E:332:ASN:C	2.56	0.47
1:E:627:TYR:C	1:E:627:TYR:CD1	2.92	0.47
1:E:718:ARG:HH12	1:E:767:GLN:HE21	1.62	0.47
1:F:164:GLU:O	1:F:167:LYS:HG2	2.14	0.47
1:F:180:ASP:HA	1:F:183:SER:CB	2.44	0.47
1:F:252:ASP:OD2	1:F:253:HIS:CD2	2.67	0.47
1:F:456:LYS:HB2	1:F:469:PHE:O	2.14	0.47
1:F:480:ASN:ND2	1:F:481:VAL:N	2.62	0.47
1:F:518:ASN:N	1:F:518:ASN:ND2	2.61	0.47
2:P:17:SER:OG	2:P:18:LEU:N	2.46	0.47
2:Q:45:GLU:CD	2:Q:45:GLU:N	2.69	0.47
2:R:29:THR:O	2:R:30:LYS:C	2.57	0.47
1:A:345:THR:HG22	1:A:490:ALA:O	2.14	0.47
1:A:711:ILE:O	1:A:712:PHE:HD2	1.96	0.47
1:B:90:PRO:HD3	1:B:249:PHE:CE2	2.50	0.47
1:B:301:ALA:O	1:B:304:ALA:N	2.43	0.47
1:B:322:LEU:HA	1:B:503:GLU:OE2	2.14	0.47
1:B:387:ASN:N	1:B:387:ASN:ND2	2.62	0.47
1:B:513:TRP:CH2	2:P:114:GLU:HB2	2.49	0.47
1:B:597:ASN:C	1:B:599:GLU:H	2.22	0.47
1:B:753:LYS:O	1:B:754:GLU:C	2.56	0.47
1:D:175:LYS:O	1:D:176:GLY:C	2.57	0.47
1:D:254:ARG:HB3	1:D:254:ARG:NH1	2.22	0.47
1:D:297:LYS:HG2	1:D:603:ILE:HG12	1.95	0.47
1:D:633:ASN:O	1:D:642:TYR:CE1	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:671:ARG:HH11	1:D:671:ARG:HG3	1.79	0.47
1:E:351:HIS:HB2	1:E:386:GLU:HG3	1.95	0.47
1:F:170:TYR:O	1:F:174:GLY:N	2.47	0.47
1:F:172:GLU:CB	1:F:246:SER:HA	2.44	0.47
1:F:297:LYS:HG2	1:F:603:ILE:HG12	1.95	0.47
1:F:298:GLY:O	1:F:300:LYS:N	2.47	0.47
1:F:443:GLU:HG3	1:F:458:LYS:HG2	1.96	0.47
1:F:719:LYS:HE3	1:F:797:ILE:HD11	1.95	0.47
2:O:117:THR:O	2:O:119:GLU:N	2.47	0.47
2:T:45:GLU:CD	2:T:45:GLU:N	2.70	0.47
1:A:175:LYS:O	1:A:176:GLY:C	2.56	0.47
1:A:351:HIS:HB2	1:A:386:GLU:HG3	1.95	0.47
1:A:700:TYR:CD1	1:A:728:ALA:HA	2.48	0.47
1:B:405:LEU:HD13	1:B:453:VAL:CG2	2.43	0.47
1:C:302:LEU:HD13	1:C:602:PHE:CE1	2.49	0.47
1:D:116:GLU:HG3	1:D:117:LEU:CD2	2.44	0.47
1:D:172:GLU:CB	1:D:246:SER:HA	2.45	0.47
1:D:357:TRP:HZ3	1:D:439:ASN:CB	2.23	0.47
1:D:480:ASN:HD22	1:D:481:VAL:N	2.12	0.47
1:E:628:PHE:CE2	2:S:90:ARG:CZ	2.96	0.47
1:F:658:PRO:HG3	1:F:752:LEU:CD2	2.40	0.47
1:F:687:GLU:O	1:F:690:LYS:HB2	2.15	0.47
2:O:29:THR:O	2:O:30:LYS:C	2.57	0.47
2:R:41:GLN:O	2:R:43:PRO:HD2	2.13	0.47
2:S:17:SER:OG	2:S:18:LEU:N	2.45	0.47
2:S:41:GLN:O	2:S:43:PRO:HD2	2.12	0.47
1:A:171:TYR:CD1	1:A:175:LYS:NZ	2.83	0.47
1:A:379:ALA:O	1:A:383:GLY:N	2.45	0.47
1:A:643:ILE:HG22	1:A:644:GLU:N	2.29	0.47
1:A:708:ALA:C	1:A:710:HIS:H	2.22	0.47
1:B:185:ASP:O	1:B:190:PRO:HA	2.14	0.47
1:B:197:LYS:HD3	1:B:263:ASP:HB3	1.95	0.47
1:B:357:TRP:CZ3	1:B:439:ASN:ND2	2.83	0.47
1:B:395:GLU:C	1:B:397:GLU:H	2.21	0.47
1:C:335:ALA:CB	1:C:489:THR:OG1	2.61	0.47
1:C:732:ILE:O	1:C:733:GLU:C	2.58	0.47
1:D:71:PHE:C	1:D:73:ASN:H	2.22	0.47
1:D:665:LYS:HE2	2:R:11:GLU:OE1	2.14	0.47
1:D:732:ILE:O	1:D:733:GLU:C	2.57	0.47
1:E:308:VAL:CG2	1:E:336:THR:O	2.62	0.47
1:E:432:TYR:HD1	1:E:445:ARG:HD2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:456:LYS:HB2	1:E:469:PHE:O	2.14	0.47
1:E:597:ASN:HD22	1:E:603:ILE:HD11	1.80	0.47
1:E:658:PRO:HG3	1:E:752:LEU:CD2	2.39	0.47
1:E:697:ILE:HG23	1:E:732:ILE:HD11	1.94	0.47
1:F:254:ARG:HB3	1:F:254:ARG:NH1	2.20	0.47
1:F:279:ILE:HG22	1:F:283:LEU:HD11	1.96	0.47
1:F:357:TRP:HZ3	1:F:439:ASN:CB	2.23	0.47
1:F:432:TYR:HD1	1:F:445:ARG:HD2	1.79	0.47
1:F:542:PRO:HA	1:F:548:THR:HG23	1.97	0.47
1:F:688:PHE:C	1:F:688:PHE:HD2	2.21	0.47
2:P:12:PHE:HB3	2:P:68:PHE:CE2	2.50	0.47
2:P:29:THR:O	2:P:30:LYS:C	2.57	0.47
2:Q:100:ILE:HB	2:Q:136:VAL:HG22	1.95	0.47
2:S:117:THR:HG23	2:S:120:GLU:CB	2.44	0.47
2:S:146:THR:O	2:S:147:ALA:C	2.54	0.47
2:T:81:SER:O	2:T:82:GLU:C	2.58	0.47
1:A:173:ILE:O	1:A:175:LYS:N	2.47	0.47
1:B:220:LEU:HG	1:B:220:LEU:O	2.15	0.47
1:B:456:LYS:HB2	1:B:469:PHE:O	2.14	0.47
1:B:666:ASN:HB2	1:B:748:TYR:OH	2.13	0.47
1:B:671:ARG:HG3	1:B:671:ARG:HH11	1.79	0.47
1:C:116:GLU:HG3	1:C:117:LEU:CD2	2.45	0.47
1:C:131:ARG:HH11	1:C:131:ARG:HG2	1.79	0.47
1:C:175:LYS:O	1:C:176:GLY:C	2.56	0.47
1:C:456:LYS:HB3	1:C:471:TRP:N	2.29	0.47
1:D:176:GLY:C	1:D:178:SER:H	2.23	0.47
1:D:351:HIS:HB2	1:D:386:GLU:HG3	1.95	0.47
1:E:180:ASP:HA	1:E:183:SER:CB	2.45	0.47
1:E:214:PHE:CB	1:E:218:LEU:HB3	2.39	0.47
1:E:322:LEU:HA	1:E:503:GLU:OE2	2.14	0.47
1:E:387:ASN:N	1:E:387:ASN:ND2	2.62	0.47
1:F:235:THR:O	1:F:238:GLN:HB2	2.14	0.47
1:F:456:LYS:HD3	1:F:471:TRP:CG	2.49	0.47
1:F:554:LYS:O	1:F:557:LEU:N	2.47	0.47
1:F:710:HIS:O	1:F:712:PHE:N	2.47	0.47
2:O:92:PHE:H	2:O:92:PHE:HD1	1.61	0.47
2:Q:29:THR:O	2:Q:30:LYS:C	2.57	0.47
2:Q:33:GLY:O	2:Q:34:THR:C	2.58	0.47
2:Q:63:ILE:HG23	2:Q:67:GLU:HB2	1.96	0.47
2:R:28:THR:OG1	2:R:29:THR:N	2.46	0.47
2:R:68:PHE:C	2:R:70:THR:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:GLU:O	1:A:167:LYS:HG2	2.14	0.47
1:A:199:LEU:C	1:A:201:ASP:N	2.63	0.47
1:A:297:LYS:HZ3	1:A:297:LYS:HB3	1.79	0.47
1:A:504:ILE:O	1:A:507:GLN:CB	2.63	0.47
1:A:665:LYS:HE2	2:O:11:GLU:OE1	2.14	0.47
1:B:173:ILE:HA	1:B:242:SER:HB3	1.96	0.47
1:B:308:VAL:CG2	1:B:336:THR:O	2.62	0.47
1:B:529:VAL:O	1:B:532:LEU:HB2	2.14	0.47
1:B:692:GLU:HA	1:B:692:GLU:OE2	2.15	0.47
1:C:164:GLU:O	1:C:167:LYS:HG2	2.14	0.47
1:C:254:ARG:H	1:C:254:ARG:CD	2.19	0.47
1:C:263:ASP:O	1:C:265:PHE:N	2.48	0.47
1:D:201:ASP:CA	1:D:210:PHE:HE2	2.27	0.47
1:D:305:SER:HB2	1:D:594:PHE:CE1	2.50	0.47
1:D:332:ASN:OD1	1:D:334:LEU:N	2.45	0.47
1:D:513:TRP:CH2	2:R:114:GLU:HB2	2.49	0.47
1:E:182:ILE:HA	1:E:187:SER:HA	1.96	0.47
1:E:665:LYS:HE2	2:S:11:GLU:OE1	2.14	0.47
1:F:359:PRO:HG2	1:F:360:VAL:H	1.79	0.47
1:F:629:ASN:ND2	1:F:631:SER:N	2.63	0.47
2:O:126:ARG:HH21	2:O:126:ARG:HG3	1.79	0.47
2:R:33:GLY:O	2:R:34:THR:C	2.58	0.47
2:S:81:SER:O	2:S:82:GLU:C	2.58	0.47
1:A:88:LYS:HZ3	1:A:172:GLU:CD	2.21	0.47
1:A:197:LYS:HD3	1:A:263:ASP:CG	2.40	0.47
1:A:518:ASN:N	1:A:518:ASN:ND2	2.60	0.47
1:A:540:ARG:NH1	1:A:627:TYR:CE1	2.82	0.47
1:A:671:ARG:HH11	1:A:671:ARG:HG3	1.80	0.47
1:A:692:GLU:OE2	1:A:692:GLU:HA	2.14	0.47
1:A:710:HIS:O	1:A:712:PHE:N	2.47	0.47
1:B:115:LYS:CE	1:B:116:GLU:HG2	2.45	0.47
1:B:131:ARG:HG2	1:B:131:ARG:HH11	1.78	0.47
1:B:172:GLU:CB	1:B:246:SER:HA	2.44	0.47
1:B:201:ASP:CA	1:B:210:PHE:HE2	2.26	0.47
1:B:263:ASP:O	1:B:264:MET:C	2.57	0.47
1:B:319:ALA:O	1:B:323:ASN:HA	2.15	0.47
1:B:343:VAL:HG12	1:B:344:ALA:O	2.14	0.47
1:B:626:TYR:CD2	1:B:627:TYR:N	2.83	0.47
1:B:700:TYR:CD1	1:B:728:ALA:HA	2.48	0.47
1:B:714:GLN:O	1:B:715:GLU:C	2.57	0.47
1:B:718:ARG:HH12	1:B:767:GLN:HE21	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:201:ASP:CA	1:C:210:PHE:HE2	2.27	0.47
1:C:344:ALA:HA	1:C:569:TYR:OH	2.14	0.47
1:C:443:GLU:HG3	1:C:458:LYS:HG2	1.96	0.47
1:C:561:ASN:C	1:C:563:ALA:N	2.67	0.47
1:C:561:ASN:C	1:C:563:ALA:H	2.21	0.47
1:C:710:HIS:O	1:C:712:PHE:N	2.47	0.47
1:D:297:LYS:HZ3	1:D:297:LYS:HB3	1.78	0.47
1:D:700:TYR:CD1	1:D:728:ALA:HA	2.48	0.47
1:E:85:LEU:HD12	1:E:168:GLU:OE1	2.15	0.47
1:E:173:ILE:O	1:E:175:LYS:N	2.48	0.47
1:E:302:LEU:HD13	1:E:602:PHE:CE1	2.50	0.47
1:E:658:PRO:HB3	1:E:755:ARG:NH1	2.30	0.47
1:E:700:TYR:CD1	1:E:728:ALA:HA	2.48	0.47
1:E:724:ARG:HH11	1:E:724:ARG:HG3	1.78	0.47
1:F:115:LYS:CB	1:F:118:GLN:CG	2.92	0.47
1:F:171:TYR:O	1:F:171:TYR:CD1	2.62	0.47
1:F:205:SER:C	1:F:207:ASP:N	2.71	0.47
1:F:265:PHE:C	1:F:267:TYR:H	2.22	0.47
1:F:446:ILE:HG13	1:F:451:ASN:O	2.15	0.47
1:F:724:ARG:HH11	1:F:724:ARG:HG3	1.79	0.47
2:O:12:PHE:O	2:O:15:ALA:HB3	2.15	0.47
2:O:13:LYS:C	2:O:15:ALA:N	2.70	0.47
2:O:69:LEU:HD23	2:O:69:LEU:HA	1.75	0.47
2:O:100:ILE:HB	2:O:136:VAL:HG22	1.91	0.47
2:O:106:ARG:HH21	2:O:106:ARG:HG3	1.79	0.47
2:P:68:PHE:C	2:P:70:THR:N	2.72	0.47
2:P:100:ILE:HB	2:P:136:VAL:HG22	1.92	0.47
2:Q:117:THR:HG23	2:Q:120:GLU:CB	2.44	0.47
2:R:32:LEU:HD12	2:R:32:LEU:O	2.14	0.47
2:R:117:THR:O	2:R:119:GLU:N	2.47	0.47
2:S:79:THR:C	2:S:81:SER:N	2.61	0.47
2:S:109:MET:HG3	2:S:116:LEU:HD11	1.97	0.47
1:A:90:PRO:O	1:A:93:VAL:N	2.48	0.47
1:A:357:TRP:CZ3	1:A:439:ASN:ND2	2.83	0.47
1:A:513:TRP:CH2	2:O:114:GLU:HB2	2.50	0.47
1:B:263:ASP:O	1:B:265:PHE:N	2.48	0.47
1:B:391:ILE:CD1	1:B:399:GLY:HA2	2.44	0.47
1:C:66:LEU:HD11	1:C:97:TYR:HD2	1.80	0.47
1:C:322:LEU:HA	1:C:503:GLU:OE2	2.14	0.47
1:C:527:LYS:HG2	2:Q:145:MET:SD	2.55	0.47
1:C:679:TYR:CD1	1:C:679:TYR:O	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:197:LYS:HD3	1:D:263:ASP:CG	2.40	0.47
1:D:464:VAL:HG23	1:D:465:LEU:N	2.30	0.47
1:D:648:PRO:HD2	2:R:90:ARG:HD3	1.97	0.47
1:E:197:LYS:HD3	1:E:263:ASP:CG	2.40	0.47
1:E:295:VAL:C	1:E:296:LEU:CD2	2.81	0.47
1:E:368:GLN:C	1:E:370:LEU:H	2.23	0.47
1:F:66:LEU:HD11	1:F:97:TYR:HD2	1.80	0.47
1:F:97:TYR:OH	1:F:150:PRO:HB2	2.15	0.47
1:F:327:LEU:CG	1:F:595:ILE:HG12	2.43	0.47
1:F:368:GLN:CB	1:F:380:VAL:HG13	2.45	0.47
1:F:529:VAL:O	1:F:532:LEU:HB2	2.13	0.47
1:F:561:ASN:C	1:F:563:ALA:H	2.22	0.47
1:F:692:GLU:HA	1:F:692:GLU:OE2	2.14	0.47
2:P:92:PHE:HD1	2:P:92:PHE:H	1.62	0.47
2:Q:92:PHE:HD1	2:Q:92:PHE:H	1.62	0.47
2:R:144:MET:HE1	2:R:145:MET:HE2	1.96	0.47
2:S:18:LEU:HB3	2:S:19:PHE:CD1	2.50	0.47
2:S:24:ASP:HB2	2:S:26:THR:CG2	2.35	0.47
2:S:92:PHE:HD1	2:S:92:PHE:H	1.62	0.47
2:T:144:MET:HE1	2:T:145:MET:HE2	1.95	0.47
1:A:116:GLU:HG3	1:A:117:LEU:CD2	2.45	0.47
1:A:135:VAL:N	1:A:136:PRO:CD	2.78	0.47
1:A:235:THR:O	1:A:238:GLN:HB2	2.14	0.47
1:A:529:VAL:O	1:A:532:LEU:HB2	2.15	0.47
1:A:595:ILE:HG22	1:A:596:ILE:H	1.80	0.47
1:A:627:TYR:CD1	1:A:627:TYR:C	2.93	0.47
1:A:683:GLY:O	1:A:684:ASP:C	2.55	0.47
1:B:66:LEU:HD11	1:B:97:TYR:HD2	1.80	0.47
1:B:164:GLU:O	1:B:167:LYS:HG2	2.15	0.47
1:B:456:LYS:HD3	1:B:471:TRP:CG	2.50	0.47
1:B:683:GLY:O	1:B:684:ASP:C	2.57	0.47
1:C:220:LEU:O	1:C:220:LEU:HG	2.15	0.47
1:C:648:PRO:O	1:C:649:ILE:C	2.57	0.47
1:D:180:ASP:HA	1:D:183:SER:CB	2.45	0.47
1:D:504:ILE:O	1:D:507:GLN:CB	2.63	0.47
1:D:656:THR:HG22	1:D:657:ILE:O	2.15	0.47
1:D:711:ILE:C	1:D:712:PHE:CD2	2.93	0.47
1:E:116:GLU:HG3	1:E:117:LEU:HD23	1.96	0.47
1:E:172:GLU:HG3	1:E:245:PHE:HE1	1.79	0.47
1:E:298:GLY:O	1:E:300:LYS:N	2.48	0.47
1:E:450:ASN:HD22	1:E:452:GLU:HG3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:391:ILE:CD1	1:F:399:GLY:HA2	2.45	0.47
1:F:414:LYS:HD3	1:F:414:LYS:C	2.40	0.47
2:R:117:THR:O	2:R:120:GLU:N	2.48	0.47
2:T:12:PHE:HB3	2:T:68:PHE:CE2	2.50	0.47
2:T:18:LEU:HD23	2:T:18:LEU:HA	1.75	0.47
2:T:84:GLU:OE2	2:T:84:GLU:N	2.44	0.47
1:A:104:ILE:HG23	1:A:152:LEU:CD2	2.45	0.47
1:A:170:TYR:O	1:A:174:GLY:N	2.48	0.47
1:A:667:LEU:O	1:A:668:SER:C	2.58	0.47
1:B:191:GLU:C	1:B:193:LEU:N	2.73	0.47
1:C:197:LYS:HD3	1:C:263:ASP:OD1	2.15	0.47
1:C:297:LYS:HB3	1:C:297:LYS:HZ3	1.79	0.47
1:C:456:LYS:HD3	1:C:471:TRP:CG	2.50	0.47
1:D:225:ILE:HG12	1:D:229:PHE:HD2	1.80	0.47
1:D:289:GLU:HA	1:D:292:ARG:HG3	1.96	0.47
1:D:302:LEU:HD13	1:D:602:PHE:CE1	2.49	0.47
1:D:308:VAL:O	1:D:311:HIS:N	2.46	0.47
1:D:595:ILE:HG22	1:D:596:ILE:H	1.79	0.47
1:D:687:GLU:O	1:D:690:LYS:HB2	2.15	0.47
1:E:377:GLN:O	1:E:381:GLU:HB2	2.15	0.47
1:E:493:ASP:OD2	1:E:577:HIS:HE1	1.98	0.47
1:E:667:LEU:O	1:E:668:SER:C	2.58	0.47
1:E:713:SER:O	1:E:714:GLN:C	2.57	0.47
2:P:33:GLY:O	2:P:34:THR:C	2.58	0.47
2:Q:32:LEU:HD12	2:Q:32:LEU:O	2.14	0.47
2:S:12:PHE:O	2:S:15:ALA:HB3	2.15	0.47
1:A:191:GLU:O	1:A:194:ASN:N	2.47	0.46
1:A:197:LYS:HD3	1:A:263:ASP:OD1	2.15	0.46
1:C:225:ILE:HG23	1:C:229:PHE:HD2	1.80	0.46
1:D:131:ARG:HG2	1:D:131:ARG:HH11	1.79	0.46
1:D:135:VAL:N	1:D:136:PRO:CD	2.78	0.46
1:D:164:GLU:O	1:D:167:LYS:HG2	2.15	0.46
1:D:636:ALA:O	1:D:640:LYS:CA	2.63	0.46
1:D:660:SER:O	1:D:663:PHE:HB3	2.15	0.46
1:F:165:GLN:CD	1:F:252:ASP:HB3	2.40	0.46
1:F:339:ILE:O	1:F:340:LYS:C	2.59	0.46
1:F:453:VAL:HG12	1:F:454:GLN:N	2.30	0.46
1:F:700:TYR:CD1	1:F:728:ALA:HA	2.47	0.46
2:R:12:PHE:HB3	2:R:68:PHE:CE2	2.49	0.46
2:R:129:ASP:OD2	2:R:140:GLU:OE2	2.33	0.46
2:S:89:PHE:HB2	2:S:141:PHE:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:LEU:HG	1:A:220:LEU:O	2.15	0.46
1:A:446:ILE:HG13	1:A:451:ASN:O	2.15	0.46
1:A:480:ASN:ND2	1:A:481:VAL:N	2.63	0.46
1:A:493:ASP:OD2	1:A:577:HIS:HE1	1.98	0.46
1:A:656:THR:HG22	1:A:657:ILE:O	2.15	0.46
1:B:252:ASP:OD2	1:B:253:HIS:CD2	2.69	0.46
1:B:289:GLU:HA	1:B:292:ARG:HG3	1.96	0.46
1:B:656:THR:HG22	1:B:657:ILE:O	2.15	0.46
1:B:684:ASP:C	1:B:686:ASP:H	2.21	0.46
1:B:749:PHE:O	1:B:753:LYS:HG3	2.16	0.46
1:C:122:GLU:HG3	1:C:147:ARG:H	1.78	0.46
1:C:135:VAL:N	1:C:136:PRO:CD	2.78	0.46
1:C:176:GLY:C	1:C:178:SER:H	2.23	0.46
1:C:450:ASN:HD22	1:C:452:GLU:HG3	1.80	0.46
1:C:653:LYS:C	1:C:655:ASN:N	2.72	0.46
1:D:88:LYS:NZ	1:D:172:GLU:CD	2.72	0.46
1:D:188:LEU:HD12	1:D:191:GLU:HG3	1.96	0.46
1:D:197:LYS:HD3	1:D:263:ASP:OD1	2.15	0.46
1:D:298:GLY:O	1:D:300:LYS:N	2.48	0.46
1:D:561:ASN:C	1:D:563:ALA:H	2.22	0.46
1:E:66:LEU:HD11	1:E:97:TYR:HD2	1.81	0.46
1:E:297:LYS:HG2	1:E:603:ILE:HG12	1.97	0.46
1:F:560:LEU:O	1:F:563:ALA:HB3	2.15	0.46
1:F:697:ILE:HG12	1:F:732:ILE:HD13	1.98	0.46
2:T:17:SER:OG	2:T:18:LEU:N	2.47	0.46
1:A:131:ARG:HG2	1:A:131:ARG:HH11	1.78	0.46
1:A:305:SER:HB2	1:A:594:PHE:CE1	2.50	0.46
1:A:456:LYS:HA	1:A:469:PHE:CD1	2.50	0.46
1:A:719:LYS:HE3	1:A:797:ILE:HD11	1.97	0.46
1:A:792:VAL:O	1:A:793:PHE:C	2.57	0.46
1:B:71:PHE:HB2	1:B:108:ASP:HB2	1.97	0.46
1:B:112:VAL:O	1:B:114:HIS:N	2.47	0.46
1:B:377:GLN:O	1:B:381:GLU:HB2	2.15	0.46
1:B:648:PRO:HD2	2:P:90:ARG:HD3	1.96	0.46
1:C:456:LYS:HB2	1:C:469:PHE:O	2.15	0.46
1:D:92:ASP:O	1:D:93:VAL:C	2.58	0.46
1:D:182:ILE:HA	1:D:187:SER:HA	1.97	0.46
1:D:381:GLU:O	1:D:385:LEU:HD23	2.15	0.46
1:D:455:TYR:CZ	1:D:469:PHE:CZ	3.04	0.46
1:D:744:GLU:H	1:D:744:GLU:CD	2.22	0.46
1:E:172:GLU:CB	1:E:246:SER:HA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:308:VAL:O	1:E:311:HIS:N	2.47	0.46
1:E:414:LYS:C	1:E:414:LYS:HD3	2.40	0.46
1:E:629:ASN:ND2	1:E:631:SER:N	2.63	0.46
1:E:719:LYS:HE3	1:E:797:ILE:HD11	1.97	0.46
1:F:135:VAL:N	1:F:136:PRO:CD	2.78	0.46
1:F:175:LYS:HZ2	1:F:175:LYS:CB	2.26	0.46
1:F:344:ALA:HA	1:F:569:TYR:OH	2.15	0.46
1:F:345:THR:HG22	1:F:490:ALA:O	2.16	0.46
1:F:666:ASN:HB2	1:F:748:TYR:OH	2.16	0.46
2:O:45:GLU:CD	2:O:45:GLU:N	2.71	0.46
2:O:63:ILE:HG23	2:O:67:GLU:HB2	1.96	0.46
2:O:81:SER:O	2:O:82:GLU:C	2.58	0.46
2:P:63:ILE:HG23	2:P:67:GLU:HB2	1.97	0.46
2:T:92:PHE:HD1	2:T:92:PHE:H	1.62	0.46
1:A:344:ALA:HA	1:A:569:TYR:OH	2.16	0.46
1:A:445:ARG:HD3	1:A:471:TRP:CZ2	2.50	0.46
1:A:636:ALA:O	1:A:640:LYS:CA	2.64	0.46
1:B:391:ILE:HG12	1:B:399:GLY:HA2	1.98	0.46
1:B:597:ASN:HD22	1:B:603:ILE:HD11	1.81	0.46
1:C:104:ILE:HG23	1:C:152:LEU:CD2	2.45	0.46
1:C:265:PHE:C	1:C:267:TYR:H	2.23	0.46
1:C:700:TYR:CD1	1:C:728:ALA:HA	2.48	0.46
1:D:100:LEU:HD22	1:D:182:ILE:HG21	1.95	0.46
1:D:182:ILE:C	1:D:183:SER:O	2.52	0.46
1:D:214:PHE:CB	1:D:218:LEU:HB3	2.38	0.46
1:D:254:ARG:H	1:D:254:ARG:CD	2.19	0.46
1:D:265:PHE:C	1:D:267:TYR:H	2.23	0.46
1:D:456:LYS:HA	1:D:469:PHE:CD1	2.50	0.46
1:D:493:ASP:OD2	1:D:577:HIS:HE1	1.99	0.46
1:E:339:ILE:O	1:E:340:LYS:C	2.58	0.46
1:E:643:ILE:HG22	1:E:644:GLU:N	2.27	0.46
1:E:653:LYS:C	1:E:655:ASN:N	2.72	0.46
1:E:722:ILE:HD13	1:E:764:LEU:CD2	2.45	0.46
1:E:744:GLU:CD	1:E:744:GLU:H	2.23	0.46
1:F:173:ILE:O	1:F:175:LYS:N	2.49	0.46
1:F:368:GLN:C	1:F:370:LEU:H	2.24	0.46
1:F:725:GLY:O	1:F:726:ILE:C	2.58	0.46
1:F:790:PHE:O	1:F:791:GLU:C	2.59	0.46
2:O:117:THR:HG23	2:O:120:GLU:CB	2.42	0.46
2:P:18:LEU:HB3	2:P:19:PHE:CD1	2.51	0.46
2:Q:126:ARG:HH21	2:Q:126:ARG:HG3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:126:ARG:HG3	2:S:126:ARG:HH21	1.80	0.46
1:A:173:ILE:HA	1:A:242:SER:HB3	1.97	0.46
1:A:201:ASP:CA	1:A:210:PHE:HE2	2.28	0.46
1:A:298:GLY:O	1:A:300:LYS:N	2.49	0.46
1:A:443:GLU:HG3	1:A:458:LYS:HG2	1.97	0.46
1:A:554:LYS:O	1:A:557:LEU:N	2.49	0.46
1:A:687:GLU:O	1:A:690:LYS:HB2	2.15	0.46
1:A:688:PHE:C	1:A:688:PHE:HD2	2.22	0.46
1:B:205:SER:C	1:B:207:ASP:N	2.73	0.46
1:B:445:ARG:HD3	1:B:471:TRP:CZ2	2.50	0.46
1:B:722:ILE:HD13	1:B:764:LEU:CD2	2.45	0.46
1:C:79:ILE:C	1:C:81:GLN:N	2.69	0.46
1:C:93:VAL:CG1	1:C:94:LEU:N	2.79	0.46
1:C:173:ILE:O	1:C:175:LYS:N	2.48	0.46
1:C:446:ILE:HG13	1:C:451:ASN:O	2.16	0.46
1:C:626:TYR:CD2	1:C:627:TYR:N	2.84	0.46
1:C:724:ARG:HH11	1:C:724:ARG:HG3	1.79	0.46
1:C:762:LEU:O	1:C:766:HIS:HB2	2.16	0.46
1:D:171:TYR:CD1	1:D:175:LYS:NZ	2.84	0.46
1:D:191:GLU:O	1:D:194:ASN:N	2.48	0.46
1:D:357:TRP:CZ3	1:D:439:ASN:ND2	2.83	0.46
1:D:480:ASN:ND2	1:D:481:VAL:N	2.62	0.46
1:D:724:ARG:HG3	1:D:724:ARG:HH11	1.80	0.46
1:E:135:VAL:N	1:E:136:PRO:CD	2.78	0.46
1:E:165:GLN:CD	1:E:252:ASP:HB3	2.39	0.46
1:E:263:ASP:O	1:E:264:MET:C	2.58	0.46
1:E:480:ASN:ND2	1:E:481:VAL:N	2.64	0.46
1:F:480:ASN:ND2	1:F:483:GLY:CA	2.79	0.46
1:F:480:ASN:HD22	1:F:481:VAL:N	2.13	0.46
2:Q:12:PHE:HB3	2:Q:68:PHE:CE2	2.50	0.46
2:R:9:ILE:CD1	2:R:69:LEU:HD22	2.46	0.46
1:A:744:GLU:H	1:A:744:GLU:CD	2.22	0.46
1:A:790:PHE:O	1:A:791:GLU:C	2.58	0.46
1:B:302:LEU:HD13	1:B:602:PHE:CE1	2.51	0.46
1:B:368:GLN:C	1:B:370:LEU:H	2.23	0.46
1:B:456:LYS:HA	1:B:469:PHE:CD1	2.51	0.46
1:B:527:LYS:HG2	2:P:145:MET:SD	2.56	0.46
1:C:255:THR:C	1:C:257:LEU:N	2.72	0.46
1:D:71:PHE:CD1	1:D:108:ASP:OD1	2.68	0.46
1:D:172:GLU:HG3	1:D:245:PHE:HE1	1.80	0.46
1:D:308:VAL:CG2	1:D:336:THR:O	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:353:LYS:N	1:D:368:GLN:HE22	2.08	0.46
1:D:451:ASN:O	1:D:452:GLU:C	2.59	0.46
1:D:515:LYS:HB3	1:D:515:LYS:HZ2	1.80	0.46
1:E:205:SER:C	1:E:207:ASP:N	2.72	0.46
1:E:288:VAL:CG2	1:E:289:GLU:H	2.22	0.46
1:E:443:GLU:HG3	1:E:458:LYS:HG2	1.96	0.46
1:E:464:VAL:HG23	1:E:465:LEU:N	2.31	0.46
1:E:687:GLU:O	1:E:690:LYS:HB2	2.15	0.46
1:E:790:PHE:O	1:E:791:GLU:C	2.59	0.46
1:F:71:PHE:HB2	1:F:108:ASP:HB2	1.97	0.46
1:F:201:ASP:CA	1:F:210:PHE:HE2	2.27	0.46
1:F:305:SER:HB2	1:F:594:PHE:CE1	2.51	0.46
1:F:667:LEU:O	1:F:668:SER:C	2.58	0.46
2:O:115:LYS:NZ	2:O:115:LYS:CA	2.78	0.46
2:P:50:ASP:CA	2:P:53:ASN:HB3	2.31	0.46
2:Q:18:LEU:HB3	2:Q:19:PHE:CD1	2.51	0.46
2:R:108:VAL:O	2:R:112:LEU:HD12	2.16	0.46
2:S:117:THR:O	2:S:120:GLU:N	2.49	0.46
2:T:56:ASP:C	2:T:58:ASP:H	2.24	0.46
2:T:126:ARG:HG3	2:T:126:ARG:HH21	1.79	0.46
1:A:265:PHE:C	1:A:267:TYR:H	2.24	0.46
1:A:648:PRO:HD2	2:O:90:ARG:HD3	1.97	0.46
1:B:116:GLU:HG3	1:B:117:LEU:HD23	1.97	0.46
1:B:636:ALA:O	1:B:640:LYS:CA	2.64	0.46
1:B:653:LYS:C	1:B:655:ASN:N	2.71	0.46
1:C:205:SER:C	1:C:207:ASP:N	2.72	0.46
1:C:751:TYR:C	1:C:753:LYS:H	2.24	0.46
1:D:359:PRO:HG2	1:D:360:VAL:H	1.80	0.46
1:D:443:GLU:HG3	1:D:458:LYS:HG2	1.96	0.46
1:E:217:LYS:HZ2	1:E:236:GLU:HB2	1.81	0.46
1:E:305:SER:HB2	1:E:594:PHE:CE1	2.51	0.46
1:E:456:LYS:HA	1:E:469:PHE:CD1	2.51	0.46
1:E:530:THR:HG23	2:S:88:ALA:HB1	1.97	0.46
1:F:76:LEU:O	1:F:80:GLN:N	2.47	0.46
1:F:171:TYR:CD1	1:F:175:LYS:NZ	2.83	0.46
1:F:289:GLU:HA	1:F:292:ARG:HG3	1.97	0.46
1:F:445:ARG:HD3	1:F:471:TRP:CZ2	2.50	0.46
1:F:456:LYS:HA	1:F:469:PHE:CD1	2.51	0.46
1:F:648:PRO:HD2	2:T:90:ARG:HD3	1.96	0.46
2:O:68:PHE:C	2:O:70:THR:N	2.72	0.46
2:P:81:SER:O	2:P:82:GLU:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:81:SER:O	2:Q:82:GLU:C	2.57	0.46
2:S:92:PHE:C	2:S:94:LYS:N	2.74	0.46
1:A:92:ASP:O	1:A:93:VAL:C	2.58	0.46
1:A:131:ARG:HG3	1:A:243:LEU:HD13	1.98	0.46
1:A:142:VAL:CG2	1:A:154:ILE:HD12	2.38	0.46
1:A:214:PHE:CB	1:A:218:LEU:HB3	2.38	0.46
1:A:225:ILE:HG12	1:A:229:PHE:HD2	1.80	0.46
1:A:368:GLN:CB	1:A:380:VAL:HG13	2.46	0.46
1:A:455:TYR:CZ	1:A:469:PHE:CZ	3.04	0.46
1:A:456:LYS:HD3	1:A:471:TRP:CG	2.51	0.46
1:A:530:THR:O	1:A:534:ILE:HG13	2.14	0.46
1:A:697:ILE:HG12	1:A:732:ILE:HD13	1.98	0.46
1:A:722:ILE:HD13	1:A:764:LEU:CD2	2.45	0.46
1:B:165:GLN:CD	1:B:252:ASP:HB3	2.41	0.46
1:B:189:ASP:O	1:B:190:PRO:C	2.56	0.46
1:B:235:THR:O	1:B:238:GLN:HB2	2.15	0.46
1:B:414:LYS:C	1:B:414:LYS:HD3	2.41	0.46
1:B:629:ASN:ND2	1:B:631:SER:N	2.63	0.46
1:B:792:VAL:O	1:B:796:ILE:HG12	2.16	0.46
1:C:71:PHE:O	1:C:78:LYS:NZ	2.49	0.46
1:C:165:GLN:CD	1:C:252:ASP:HB3	2.41	0.46
1:C:270:LYS:HA	1:C:273:LYS:HG3	1.97	0.46
1:C:305:SER:HB2	1:C:594:PHE:CE1	2.51	0.46
1:C:332:ASN:OD1	1:C:334:LEU:HB2	2.16	0.46
1:C:636:ALA:O	1:C:640:LYS:CA	2.64	0.46
1:C:687:GLU:O	1:C:690:LYS:HB2	2.16	0.46
1:D:66:LEU:HD11	1:D:97:TYR:HD2	1.80	0.46
1:D:220:LEU:HG	1:D:220:LEU:O	2.15	0.46
1:D:339:ILE:O	1:D:340:LYS:C	2.58	0.46
1:D:360:VAL:CG1	1:D:370:LEU:HD22	2.43	0.46
1:D:377:GLN:O	1:D:381:GLU:HB2	2.15	0.46
1:D:432:TYR:HD1	1:D:445:ARG:HD2	1.79	0.46
1:D:606:LYS:HB2	1:D:610:MET:HE1	1.98	0.46
1:E:93:VAL:CG1	1:E:94:LEU:N	2.79	0.46
1:E:201:ASP:CA	1:E:210:PHE:HE2	2.27	0.46
1:E:597:ASN:C	1:E:599:GLU:H	2.24	0.46
1:F:71:PHE:O	1:F:78:LYS:NZ	2.49	0.46
1:F:131:ARG:HG3	1:F:243:LEU:HD13	1.97	0.46
1:F:298:GLY:C	1:F:300:LYS:H	2.23	0.46
1:F:350:VAL:HG21	1:F:488:LEU:HD12	1.98	0.46
1:F:450:ASN:HD22	1:F:452:GLU:HG3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:530:THR:HG23	2:T:88:ALA:HB1	1.98	0.46
1:F:540:ARG:NH1	1:F:627:TYR:CE1	2.83	0.46
1:F:636:ALA:O	1:F:640:LYS:CA	2.64	0.46
1:F:683:GLY:O	1:F:684:ASP:C	2.57	0.46
2:Q:17:SER:OG	2:Q:18:LEU:N	2.46	0.46
2:Q:18:LEU:HA	2:Q:18:LEU:HD23	1.75	0.46
2:Q:50:ASP:CA	2:Q:53:ASN:HB3	2.31	0.46
2:R:63:ILE:HG23	2:R:67:GLU:HB2	1.96	0.46
2:R:81:SER:O	2:R:82:GLU:C	2.58	0.46
2:T:70:THR:O	2:T:71:MET:C	2.59	0.46
2:T:117:THR:HG23	2:T:120:GLU:CB	2.43	0.46
1:A:630:ARG:NH1	2:O:83:GLU:HG2	2.30	0.46
1:A:718:ARG:HH12	1:A:767:GLN:HE21	1.62	0.46
1:A:794:GLN:HE21	1:A:794:GLN:HB3	1.60	0.46
1:B:344:ALA:HA	1:B:569:TYR:OH	2.16	0.46
1:B:453:VAL:HG12	1:B:454:GLN:N	2.30	0.46
1:C:112:VAL:O	1:C:114:HIS:N	2.49	0.46
1:C:327:LEU:CG	1:C:595:ILE:HG12	2.45	0.46
1:C:445:ARG:HD3	1:C:471:TRP:CZ2	2.51	0.46
1:C:504:ILE:H	1:C:504:ILE:CD1	2.29	0.46
1:C:683:GLY:O	1:C:684:ASP:C	2.56	0.46
1:C:713:SER:O	1:C:714:GLN:C	2.59	0.46
1:E:173:ILE:C	1:E:175:LYS:H	2.23	0.46
1:F:189:ASP:HB3	1:F:190:PRO:HD2	1.98	0.46
1:F:225:ILE:HG23	1:F:229:PHE:HD2	1.81	0.46
1:F:293:ILE:H	1:F:293:ILE:HG12	1.45	0.46
1:F:357:TRP:CZ3	1:F:439:ASN:ND2	2.84	0.46
2:P:32:LEU:O	2:P:32:LEU:HD12	2.16	0.46
2:R:102:ALA:CB	2:R:125:ILE:HG13	2.44	0.46
2:T:9:ILE:CD1	2:T:69:LEU:HD22	2.46	0.46
2:T:50:ASP:CA	2:T:53:ASN:HB3	2.31	0.46
2:T:63:ILE:HG23	2:T:67:GLU:HB2	1.97	0.46
1:A:424:LYS:O	1:A:425:GLU:OE1	2.34	0.46
1:B:359:PRO:HG2	1:B:360:VAL:H	1.80	0.46
1:B:424:LYS:O	1:B:425:GLU:OE1	2.34	0.46
1:B:432:TYR:HD1	1:B:445:ARG:HD2	1.79	0.46
1:C:214:PHE:CB	1:C:218:LEU:HB3	2.38	0.46
1:C:298:GLY:C	1:C:300:LYS:H	2.23	0.46
1:C:493:ASP:OD2	1:C:577:HIS:HE1	1.99	0.46
1:C:530:THR:HG23	2:Q:88:ALA:HB1	1.98	0.46
1:C:684:ASP:C	1:C:686:ASP:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:722:ILE:HD13	1:D:764:LEU:CD2	2.46	0.46
1:E:131:ARG:HB2	1:E:243:LEU:HD21	1.97	0.46
1:E:171:TYR:CD1	1:E:175:LYS:NZ	2.82	0.46
1:E:252:ASP:OD2	1:E:253:HIS:CD2	2.69	0.46
1:F:88:LYS:NZ	1:F:172:GLU:CD	2.73	0.46
1:F:297:LYS:HB3	1:F:297:LYS:HZ3	1.80	0.46
1:F:493:ASP:OD2	1:F:577:HIS:HE1	1.99	0.46
1:F:540:ARG:HH22	1:F:630:ARG:HE	1.64	0.46
1:A:225:ILE:HG23	1:A:229:PHE:HD2	1.81	0.45
1:A:391:ILE:CD1	1:A:399:GLY:HA2	2.46	0.45
1:A:453:VAL:HG12	1:A:454:GLN:N	2.30	0.45
1:A:530:THR:HG23	2:O:88:ALA:HB1	1.98	0.45
1:A:713:SER:O	1:A:714:GLN:C	2.58	0.45
1:A:725:GLY:O	1:A:726:ILE:C	2.59	0.45
1:B:135:VAL:N	1:B:136:PRO:CD	2.78	0.45
1:B:298:GLY:O	1:B:300:LYS:N	2.49	0.45
1:B:304:ALA:HB3	1:B:604:LEU:HD22	1.98	0.45
1:C:339:ILE:O	1:C:340:LYS:C	2.59	0.45
1:C:456:LYS:HA	1:C:469:PHE:CD1	2.51	0.45
1:C:497:LEU:HD13	1:C:556:MET:HG2	1.99	0.45
1:D:332:ASN:OD1	1:D:334:LEU:HB2	2.16	0.45
1:D:368:GLN:C	1:D:370:LEU:H	2.24	0.45
1:D:445:ARG:HD3	1:D:471:TRP:CZ2	2.51	0.45
1:D:530:THR:HG23	2:R:88:ALA:HB1	1.98	0.45
1:E:71:PHE:HB2	1:E:108:ASP:HB2	1.97	0.45
1:E:104:ILE:HG23	1:E:152:LEU:CD2	2.43	0.45
1:E:217:LYS:HB3	1:E:217:LYS:HZ2	1.81	0.45
1:E:319:ALA:O	1:E:323:ASN:HA	2.16	0.45
1:E:629:ASN:O	1:E:631:SER:N	2.49	0.45
1:E:765:THR:HA	1:E:769:SER:CB	2.21	0.45
1:F:116:GLU:HG3	1:F:117:LEU:CD2	2.46	0.45
1:F:302:LEU:HD13	1:F:602:PHE:CE1	2.51	0.45
1:F:377:GLN:O	1:F:381:GLU:HB2	2.15	0.45
2:O:12:PHE:HB3	2:O:68:PHE:CE2	2.50	0.45
2:S:12:PHE:HB3	2:S:68:PHE:CE2	2.51	0.45
1:A:88:LYS:NZ	1:A:172:GLU:CD	2.75	0.45
1:A:255:THR:C	1:A:257:LEU:N	2.71	0.45
1:A:359:PRO:HG2	1:A:360:VAL:H	1.81	0.45
1:A:368:GLN:C	1:A:370:LEU:H	2.24	0.45
1:B:197:LYS:HD3	1:B:263:ASP:CG	2.41	0.45
1:B:542:PRO:HA	1:B:548:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:629:ASN:O	1:B:631:SER:N	2.49	0.45
1:B:665:LYS:HE2	2:P:11:GLU:OE1	2.16	0.45
1:C:263:ASP:O	1:C:264:MET:C	2.58	0.45
1:C:414:LYS:HD3	1:C:414:LYS:C	2.41	0.45
1:C:522:SER:O	2:Q:124:MET:HE2	2.16	0.45
1:C:654:ILE:C	1:C:655:ASN:HD22	2.24	0.45
1:D:76:LEU:O	1:D:80:GLN:N	2.47	0.45
1:D:170:TYR:O	1:D:174:GLY:HA3	2.17	0.45
1:D:285:LYS:O	1:D:288:VAL:HG22	2.16	0.45
1:D:504:ILE:H	1:D:504:ILE:CD1	2.29	0.45
1:D:518:ASN:N	1:D:518:ASN:ND2	2.60	0.45
1:D:540:ARG:NH1	1:D:627:TYR:CE1	2.84	0.45
1:D:656:THR:O	1:D:755:ARG:HD2	2.16	0.45
1:E:217:LYS:HB2	1:E:236:GLU:HG3	1.99	0.45
1:E:480:ASN:HD22	1:E:481:VAL:N	2.14	0.45
1:E:508:ILE:HG21	1:E:513:TRP:HB2	1.98	0.45
1:F:93:VAL:CG1	1:F:94:LEU:N	2.80	0.45
1:F:225:ILE:HG12	1:F:229:PHE:HD2	1.80	0.45
1:F:327:LEU:CD2	1:F:595:ILE:HG12	2.47	0.45
1:F:360:VAL:CG1	1:F:370:LEU:HD22	2.43	0.45
1:F:455:TYR:CZ	1:F:469:PHE:CZ	3.05	0.45
1:F:713:SER:O	1:F:714:GLN:C	2.59	0.45
1:F:718:ARG:HH12	1:F:767:GLN:HE21	1.64	0.45
2:O:109:MET:HG3	2:O:116:LEU:HD11	1.98	0.45
2:P:117:THR:HG23	2:P:120:GLU:CB	2.44	0.45
2:Q:117:THR:O	2:Q:120:GLU:N	2.48	0.45
2:S:11:GLU:C	2:S:13:LYS:N	2.74	0.45
1:B:170:TYR:O	1:B:174:GLY:HA3	2.16	0.45
1:B:173:ILE:C	1:B:175:LYS:H	2.24	0.45
1:B:197:LYS:HD3	1:B:263:ASP:OD1	2.16	0.45
1:B:298:GLY:C	1:B:300:LYS:H	2.25	0.45
1:C:92:ASP:O	1:C:93:VAL:C	2.58	0.45
1:C:97:TYR:HA	1:C:100:LEU:HD12	1.99	0.45
1:C:179:LEU:CG	1:C:180:ASP:N	2.79	0.45
1:C:180:ASP:HA	1:C:183:SER:CB	2.46	0.45
1:C:197:LYS:HD3	1:C:263:ASP:CG	2.41	0.45
1:C:504:ILE:O	1:C:507:GLN:CB	2.63	0.45
1:C:656:THR:O	1:C:755:ARG:HD2	2.16	0.45
1:C:706:ASN:OD1	1:C:707:SER:N	2.49	0.45
1:C:790:PHE:O	1:C:791:GLU:C	2.59	0.45
1:D:387:ASN:N	1:D:387:ASN:ND2	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:730:ASN:O	1:D:733:GLU:N	2.49	0.45
1:E:176:GLY:C	1:E:178:SER:H	2.24	0.45
1:E:179:LEU:O	1:E:180:ASP:C	2.60	0.45
1:E:220:LEU:HG	1:E:220:LEU:O	2.16	0.45
1:E:327:LEU:CD2	1:E:595:ILE:HG12	2.47	0.45
1:E:504:ILE:O	1:E:507:GLN:CB	2.64	0.45
1:E:654:ILE:O	1:E:654:ILE:HG22	2.16	0.45
1:E:656:THR:HG22	1:E:657:ILE:O	2.17	0.45
1:F:197:LYS:HD3	1:F:263:ASP:OD1	2.16	0.45
1:F:255:THR:C	1:F:257:LEU:N	2.71	0.45
1:F:387:ASN:N	1:F:387:ASN:ND2	2.62	0.45
1:F:656:THR:O	1:F:755:ARG:HD2	2.16	0.45
2:O:18:LEU:HB3	2:O:19:PHE:CD1	2.51	0.45
2:P:89:PHE:HB2	2:P:141:PHE:CD2	2.52	0.45
2:P:115:LYS:NZ	2:P:115:LYS:CA	2.78	0.45
2:R:50:ASP:CA	2:R:53:ASN:HB3	2.31	0.45
2:R:83:GLU:O	2:R:84:GLU:C	2.59	0.45
2:S:33:GLY:O	2:S:34:THR:C	2.58	0.45
2:S:63:ILE:HG23	2:S:67:GLU:HB2	1.97	0.45
2:T:117:THR:O	2:T:120:GLU:N	2.48	0.45
1:A:176:GLY:C	1:A:178:SER:H	2.24	0.45
1:A:414:LYS:HD3	1:A:414:LYS:C	2.41	0.45
1:A:480:ASN:HD22	1:A:481:VAL:N	2.14	0.45
1:A:514:ASP:C	1:A:516:VAL:H	2.25	0.45
1:B:88:LYS:NZ	1:B:172:GLU:CD	2.74	0.45
1:B:254:ARG:H	1:B:254:ARG:CD	2.21	0.45
1:B:265:PHE:C	1:B:267:TYR:H	2.25	0.45
1:B:658:PRO:HG3	1:B:752:LEU:CD2	2.39	0.45
1:B:711:ILE:C	1:B:712:PHE:CD2	2.94	0.45
1:B:765:THR:HA	1:B:769:SER:CB	2.21	0.45
1:C:179:LEU:O	1:C:180:ASP:C	2.59	0.45
1:C:218:LEU:C	1:C:220:LEU:H	2.14	0.45
1:C:377:GLN:O	1:C:381:GLU:HB2	2.16	0.45
1:C:453:VAL:HG12	1:C:454:GLN:N	2.32	0.45
1:C:514:ASP:C	1:C:516:VAL:H	2.24	0.45
1:C:597:ASN:C	1:C:599:GLU:H	2.24	0.45
1:C:630:ARG:NH1	2:Q:83:GLU:HG2	2.32	0.45
1:C:697:ILE:HG12	1:C:732:ILE:HD13	1.98	0.45
1:D:97:TYR:HA	1:D:100:LEU:HD12	1.98	0.45
1:D:112:VAL:O	1:D:114:HIS:N	2.49	0.45
1:D:173:ILE:O	1:D:175:LYS:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:LYS:NZ	1:D:233:ASN:HB3	2.32	0.45
1:D:255:THR:C	1:D:257:LEU:N	2.73	0.45
1:D:356:ASP:OD2	1:D:356:ASP:N	2.50	0.45
1:D:626:TYR:CD2	1:D:627:TYR:N	2.84	0.45
1:D:697:ILE:HG12	1:D:732:ILE:HD13	1.98	0.45
1:E:112:VAL:O	1:E:114:HIS:N	2.49	0.45
1:E:191:GLU:C	1:E:193:LEU:N	2.75	0.45
1:E:223:LYS:NZ	1:E:228:ASN:HB2	2.31	0.45
1:E:344:ALA:HA	1:E:569:TYR:OH	2.16	0.45
1:E:530:THR:O	1:E:534:ILE:HG13	2.17	0.45
1:E:554:LYS:O	1:E:557:LEU:N	2.49	0.45
1:F:97:TYR:HA	1:F:100:LEU:HD12	1.99	0.45
1:F:197:LYS:HD3	1:F:263:ASP:CG	2.41	0.45
1:F:636:ALA:HA	1:F:637:PRO:HD3	1.82	0.45
1:F:792:VAL:O	1:F:796:ILE:HG12	2.15	0.45
2:O:33:GLY:O	2:O:34:THR:C	2.58	0.45
2:O:70:THR:O	2:O:71:MET:C	2.59	0.45
2:P:92:PHE:C	2:P:94:LYS:N	2.75	0.45
2:Q:144:MET:HE1	2:Q:145:MET:HE2	1.98	0.45
2:T:18:LEU:HB3	2:T:19:PHE:CD1	2.51	0.45
1:A:116:GLU:HG3	1:A:117:LEU:HD23	1.98	0.45
1:A:252:ASP:O	1:A:254:ARG:HD2	2.17	0.45
1:A:339:ILE:O	1:A:340:LYS:C	2.58	0.45
1:B:654:ILE:C	1:B:655:ASN:HD22	2.25	0.45
1:B:657:ILE:CD1	1:B:701:LEU:HD23	2.47	0.45
1:B:667:LEU:O	1:B:668:SER:C	2.59	0.45
1:B:732:ILE:O	1:B:733:GLU:C	2.59	0.45
1:B:744:GLU:H	1:B:744:GLU:CD	2.22	0.45
1:C:74:GLU:HB2	1:C:78:LYS:HB3	1.98	0.45
1:C:112:VAL:C	1:C:114:HIS:N	2.75	0.45
1:C:285:LYS:O	1:C:288:VAL:HG22	2.16	0.45
1:D:560:LEU:O	1:D:563:ALA:HB3	2.16	0.45
1:E:335:ALA:HA	1:E:338:LEU:HG	1.98	0.45
1:E:365:PRO:O	1:E:366:PHE:C	2.58	0.45
1:E:455:TYR:CZ	1:E:469:PHE:CZ	3.05	0.45
1:E:595:ILE:HG22	1:E:596:ILE:H	1.81	0.45
1:F:191:GLU:O	1:F:192:PHE:C	2.59	0.45
1:F:482:GLU:HA	1:F:482:GLU:OE2	2.17	0.45
2:Q:89:PHE:HB2	2:Q:141:PHE:CD2	2.52	0.45
2:R:18:LEU:HA	2:R:18:LEU:HD23	1.74	0.45
1:A:332:ASN:OD1	1:A:334:LEU:N	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:ILE:O	1:A:342:GLY:N	2.37	0.45
1:A:351:HIS:HB2	1:A:386:GLU:HG2	1.99	0.45
1:A:711:ILE:C	1:A:712:PHE:CD2	2.95	0.45
1:A:751:TYR:C	1:A:753:LYS:H	2.24	0.45
1:B:89:ILE:HG21	1:B:175:LYS:HE2	1.99	0.45
1:B:464:VAL:HG23	1:B:465:LEU:N	2.32	0.45
1:B:656:THR:O	1:B:755:ARG:HD2	2.16	0.45
1:B:713:SER:O	1:B:714:GLN:C	2.59	0.45
1:C:170:TYR:O	1:C:174:GLY:HA3	2.17	0.45
1:C:172:GLU:HG3	1:C:245:PHE:HE1	1.81	0.45
1:C:252:ASP:O	1:C:254:ARG:HD2	2.17	0.45
1:C:308:VAL:CG2	1:C:336:THR:O	2.65	0.45
1:C:343:VAL:HG12	1:C:344:ALA:O	2.16	0.45
1:C:391:ILE:CD1	1:C:399:GLY:HA2	2.47	0.45
1:D:344:ALA:HA	1:D:569:TYR:OH	2.17	0.45
1:D:391:ILE:CD1	1:D:399:GLY:HA2	2.47	0.45
1:D:514:ASP:C	1:D:516:VAL:H	2.24	0.45
1:D:667:LEU:O	1:D:668:SER:C	2.59	0.45
1:D:790:PHE:O	1:D:791:GLU:C	2.59	0.45
1:D:792:VAL:O	1:D:796:ILE:HG12	2.16	0.45
1:E:184:LYS:HD2	1:E:191:GLU:HB2	1.98	0.45
1:E:185:ASP:HA	1:E:194:ASN:CG	2.42	0.45
1:E:252:ASP:O	1:E:254:ARG:HD2	2.17	0.45
1:E:332:ASN:OD1	1:E:334:LEU:N	2.44	0.45
1:E:445:ARG:HD3	1:E:471:TRP:CZ2	2.51	0.45
1:E:542:PRO:HA	1:E:548:THR:HG23	1.99	0.45
1:E:706:ASN:OD1	1:E:707:SER:N	2.50	0.45
1:F:263:ASP:O	1:F:264:MET:C	2.58	0.45
1:F:308:VAL:O	1:F:311:HIS:N	2.46	0.45
1:F:648:PRO:O	1:F:649:ILE:C	2.59	0.45
2:O:32:LEU:HD12	2:O:32:LEU:O	2.17	0.45
2:P:70:THR:O	2:P:71:MET:C	2.59	0.45
2:S:68:PHE:C	2:S:70:THR:N	2.71	0.45
1:A:308:VAL:O	1:A:311:HIS:N	2.46	0.45
1:A:319:ALA:O	1:A:323:ASN:HA	2.17	0.45
1:A:654:ILE:HG22	1:A:654:ILE:O	2.17	0.45
1:B:171:TYR:HD1	1:B:175:LYS:HZ1	1.65	0.45
1:B:339:ILE:O	1:B:340:LYS:C	2.59	0.45
1:B:365:PRO:O	1:B:366:PHE:C	2.59	0.45
1:B:504:ILE:O	1:B:507:GLN:CB	2.65	0.45
1:C:83:GLN:O	1:C:84:ASP:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:455:TYR:CZ	1:C:469:PHE:CZ	3.05	0.45
1:C:542:PRO:HA	1:C:548:THR:HG23	1.98	0.45
1:C:606:LYS:HB2	1:C:610:MET:HE1	1.98	0.45
1:D:189:ASP:HB3	1:D:190:PRO:CD	2.46	0.45
1:D:263:ASP:O	1:D:265:PHE:N	2.50	0.45
1:D:293:ILE:H	1:D:293:ILE:HG12	1.44	0.45
1:D:379:ALA:O	1:D:383:GLY:N	2.45	0.45
1:D:597:ASN:C	1:D:599:GLU:H	2.23	0.45
1:E:514:ASP:C	1:E:516:VAL:H	2.25	0.45
1:F:90:PRO:HG3	1:F:249:PHE:CZ	2.51	0.45
1:F:97:TYR:CE1	1:F:178:SER:CB	2.91	0.45
1:F:335:ALA:HA	1:F:338:LEU:HG	1.99	0.45
1:F:447:SER:OG	1:F:448:ASP:N	2.50	0.45
1:F:595:ILE:HG22	1:F:596:ILE:H	1.81	0.45
2:O:108:VAL:O	2:O:112:LEU:HD12	2.17	0.45
2:P:108:VAL:O	2:P:112:LEU:HD12	2.17	0.45
1:A:66:LEU:HD11	1:A:97:TYR:HD2	1.81	0.45
1:A:96:ILE:O	1:A:100:LEU:HD12	2.17	0.45
1:A:140:ARG:NH1	1:A:141:PHE:HE1	2.15	0.45
1:A:173:ILE:C	1:A:175:LYS:H	2.25	0.45
1:A:365:PRO:O	1:A:366:PHE:C	2.59	0.45
1:A:432:TYR:HD1	1:A:445:ARG:HD2	1.80	0.45
1:A:464:VAL:HG23	1:A:465:LEU:N	2.31	0.45
1:A:504:ILE:H	1:A:504:ILE:CD1	2.30	0.45
1:A:560:LEU:O	1:A:563:ALA:HB3	2.16	0.45
1:A:629:ASN:O	1:A:631:SER:N	2.49	0.45
1:B:351:HIS:HB2	1:B:386:GLU:HG2	1.99	0.45
1:B:353:LYS:N	1:B:368:GLN:HE22	2.06	0.45
1:B:514:ASP:C	1:B:516:VAL:H	2.25	0.45
1:B:530:THR:O	1:B:534:ILE:HG13	2.16	0.45
1:B:716:LYS:O	1:B:717:LYS:C	2.60	0.45
1:B:724:ARG:HH11	1:B:724:ARG:HG3	1.81	0.45
1:B:790:PHE:O	1:B:791:GLU:C	2.58	0.45
1:C:89:ILE:HG22	1:C:90:PRO:HD2	1.99	0.45
1:C:451:ASN:O	1:C:452:GLU:C	2.60	0.45
1:C:482:GLU:HA	1:C:482:GLU:OE2	2.17	0.45
1:C:667:LEU:O	1:C:668:SER:C	2.60	0.45
1:D:77:ASP:OD1	1:D:159:TYR:CE2	2.70	0.45
1:D:179:LEU:CG	1:D:180:ASP:H	2.30	0.45
1:D:351:HIS:HB2	1:D:386:GLU:HG2	1.99	0.45
1:D:554:LYS:O	1:D:557:LEU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:97:TYR:OH	1:E:150:PRO:HB2	2.16	0.45
1:E:265:PHE:C	1:E:267:TYR:H	2.24	0.45
1:E:332:ASN:OD1	1:E:334:LEU:HB2	2.17	0.45
1:E:357:TRP:HZ3	1:E:439:ASN:CB	2.23	0.45
1:F:115:LYS:CE	1:F:116:GLU:HG2	2.46	0.45
1:F:179:LEU:O	1:F:180:ASP:C	2.60	0.45
1:F:326:ILE:C	1:F:327:LEU:HD12	2.42	0.45
2:P:9:ILE:CD1	2:P:69:LEU:HD22	2.45	0.45
2:T:92:PHE:C	2:T:94:LYS:N	2.74	0.45
1:A:165:GLN:CD	1:A:252:ASP:HB3	2.42	0.45
1:A:522:SER:O	2:O:124:MET:HE2	2.17	0.45
1:B:70:GLU:HB2	1:B:107:THR:HG22	1.99	0.45
1:B:179:LEU:O	1:B:180:ASP:C	2.60	0.45
1:B:184:LYS:CE	1:B:191:GLU:CB	2.95	0.45
1:B:225:ILE:HG23	1:B:229:PHE:HD2	1.80	0.45
1:B:254:ARG:HB3	1:B:254:ARG:NH1	2.25	0.45
1:B:401:ILE:CG2	1:B:485:LEU:HB3	2.47	0.45
1:C:357:TRP:CZ3	1:C:439:ASN:ND2	2.84	0.45
1:C:360:VAL:CG1	1:C:370:LEU:HD22	2.43	0.45
1:C:368:GLN:CB	1:C:380:VAL:HG13	2.47	0.45
1:D:522:SER:O	2:R:124:MET:HE2	2.17	0.45
1:D:527:LYS:HG2	2:R:145:MET:SD	2.57	0.45
1:E:115:LYS:CE	1:E:116:GLU:HG2	2.46	0.45
1:E:180:ASP:O	1:E:182:ILE:N	2.50	0.45
1:E:255:THR:C	1:E:257:LEU:N	2.72	0.45
1:E:357:TRP:CZ3	1:E:439:ASN:ND2	2.83	0.45
1:F:79:ILE:C	1:F:81:GLN:N	2.69	0.45
1:F:343:VAL:HG12	1:F:344:ALA:O	2.17	0.45
1:F:424:LYS:O	1:F:425:GLU:OE1	2.35	0.45
1:F:765:THR:CA	1:F:769:SER:HB2	2.22	0.45
2:Q:9:ILE:CD1	2:Q:69:LEU:HD22	2.45	0.45
2:Q:83:GLU:O	2:Q:84:GLU:C	2.59	0.45
2:Q:108:VAL:O	2:Q:112:LEU:HD12	2.17	0.45
2:R:11:GLU:C	2:R:13:LYS:N	2.75	0.45
2:R:17:SER:OG	2:R:18:LEU:N	2.47	0.45
2:S:18:LEU:HA	2:S:18:LEU:HD23	1.76	0.45
1:A:210:PHE:C	1:A:210:PHE:CD1	2.95	0.45
1:A:289:GLU:HA	1:A:292:ARG:HG3	1.98	0.45
1:A:357:TRP:HZ3	1:A:439:ASN:CB	2.24	0.45
1:A:508:ILE:HG21	1:A:513:TRP:HB2	1.99	0.45
1:A:606:LYS:HB2	1:A:610:MET:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:595:ILE:HG22	1:B:596:ILE:H	1.82	0.45
1:B:697:ILE:HG12	1:B:732:ILE:HD13	1.99	0.45
1:C:173:ILE:HA	1:C:242:SER:HB3	1.98	0.45
1:C:180:ASP:O	1:C:182:ILE:N	2.51	0.45
1:C:540:ARG:NH1	1:C:627:TYR:CE1	2.85	0.45
1:D:97:TYR:OH	1:D:150:PRO:HB2	2.16	0.45
1:D:128:MET:CE	1:D:235:THR:HB	2.47	0.45
1:D:193:LEU:O	1:D:197:LYS:HB2	2.17	0.45
1:D:205:SER:C	1:D:207:ASP:N	2.71	0.45
1:D:295:VAL:C	1:D:296:LEU:CD2	2.82	0.45
1:D:345:THR:HG22	1:D:490:ALA:O	2.17	0.45
1:D:368:GLN:CB	1:D:380:VAL:HG13	2.47	0.45
1:D:414:LYS:C	1:D:414:LYS:HD3	2.42	0.45
1:D:527:LYS:HB3	1:D:527:LYS:HE2	1.84	0.45
1:E:170:TYR:O	1:E:174:GLY:HA3	2.17	0.45
1:E:270:LYS:HA	1:E:273:LYS:HG3	1.99	0.45
1:E:298:GLY:C	1:E:300:LYS:H	2.24	0.45
1:E:359:PRO:HG2	1:E:360:VAL:H	1.81	0.45
1:E:424:LYS:O	1:E:425:GLU:OE1	2.35	0.45
1:E:648:PRO:HD2	2:S:90:ARG:HD3	1.98	0.45
1:F:193:LEU:O	1:F:197:LYS:HB2	2.17	0.45
1:F:220:LEU:O	1:F:220:LEU:HG	2.16	0.45
1:F:288:VAL:CG2	1:F:289:GLU:H	2.23	0.45
1:F:630:ARG:HH11	1:F:630:ARG:CG	2.26	0.45
2:O:9:ILE:CD1	2:O:69:LEU:HD22	2.46	0.45
2:O:18:LEU:HD23	2:O:18:LEU:HA	1.75	0.45
2:O:92:PHE:C	2:O:94:LYS:N	2.75	0.45
2:R:18:LEU:HB3	2:R:19:PHE:CD1	2.52	0.45
2:R:126:ARG:HH21	2:R:126:ARG:HG3	1.81	0.45
2:T:33:GLY:O	2:T:34:THR:C	2.58	0.45
2:T:48:LEU:HD23	2:T:51:MET:HE2	2.00	0.45
1:A:360:VAL:CG1	1:A:370:LEU:HD22	2.44	0.44
1:A:450:ASN:HD22	1:A:452:GLU:HG3	1.78	0.44
1:A:706:ASN:OD1	1:A:707:SER:N	2.50	0.44
1:B:112:VAL:C	1:B:114:HIS:N	2.74	0.44
1:B:217:LYS:HB2	1:B:236:GLU:HG3	1.99	0.44
1:C:115:LYS:CB	1:C:118:GLN:CG	2.91	0.44
1:C:193:LEU:O	1:C:197:LYS:HB2	2.17	0.44
1:C:332:ASN:OD1	1:C:334:LEU:N	2.45	0.44
1:C:333:LYS:O	1:C:334:LEU:C	2.60	0.44
1:C:345:THR:HG22	1:C:490:ALA:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:480:ASN:HD22	1:C:481:VAL:H	1.65	0.44
1:C:480:ASN:ND2	1:C:483:GLY:CA	2.80	0.44
1:D:176:GLY:O	1:D:178:SER:N	2.50	0.44
1:D:329:ARG:CD	1:D:590:ASP:OD2	2.63	0.44
1:D:629:ASN:O	1:D:631:SER:N	2.50	0.44
1:E:115:LYS:CB	1:E:118:GLN:CG	2.92	0.44
1:E:173:ILE:HA	1:E:242:SER:HB3	1.98	0.44
1:E:453:VAL:HG12	1:E:454:GLN:N	2.31	0.44
1:E:513:TRP:CH2	1:E:517:VAL:HG11	2.52	0.44
1:E:697:ILE:HG12	1:E:732:ILE:HD13	1.99	0.44
1:E:730:ASN:O	1:E:733:GLU:N	2.51	0.44
1:E:792:VAL:O	1:E:796:ILE:HG12	2.16	0.44
1:F:308:VAL:CG2	1:F:336:THR:O	2.65	0.44
1:F:654:ILE:C	1:F:655:ASN:HD22	2.25	0.44
2:P:109:MET:HG3	2:P:116:LEU:HD11	1.99	0.44
2:S:50:ASP:CA	2:S:53:ASN:HB3	2.31	0.44
2:T:12:PHE:O	2:T:15:ALA:HB3	2.16	0.44
2:T:32:LEU:HD12	2:T:32:LEU:O	2.17	0.44
1:A:298:GLY:C	1:A:300:LYS:H	2.24	0.44
1:A:497:LEU:HD13	1:A:556:MET:HG2	1.99	0.44
1:A:532:LEU:HD23	1:A:532:LEU:HA	1.87	0.44
1:B:89:ILE:HG22	1:B:90:PRO:HD2	1.99	0.44
1:B:90:PRO:O	1:B:93:VAL:N	2.50	0.44
1:B:230:ILE:HG13	1:B:237:PHE:CD2	2.52	0.44
1:B:335:ALA:HA	1:B:338:LEU:HG	1.98	0.44
1:B:522:SER:O	2:P:124:MET:HE2	2.17	0.44
1:C:432:TYR:HD1	1:C:445:ARG:HD2	1.78	0.44
1:D:179:LEU:CG	1:D:180:ASP:N	2.80	0.44
1:D:230:ILE:HG13	1:D:237:PHE:CD2	2.52	0.44
1:D:298:GLY:C	1:D:300:LYS:H	2.24	0.44
1:D:424:LYS:O	1:D:425:GLU:OE1	2.35	0.44
1:D:497:LEU:HD13	1:D:556:MET:HG2	1.99	0.44
1:D:706:ASN:OD1	1:D:707:SER:N	2.50	0.44
1:E:304:ALA:HB3	1:E:604:LEU:HD22	1.98	0.44
1:F:137:PHE:O	1:F:138:ALA:C	2.61	0.44
1:F:191:GLU:O	1:F:194:ASN:N	2.50	0.44
1:F:473:ASN:OD1	1:F:473:ASN:N	2.41	0.44
1:F:514:ASP:C	1:F:516:VAL:H	2.25	0.44
1:F:519:THR:HG21	1:F:525:LYS:HA	2.00	0.44
2:O:36:MET:O	2:O:37:ARG:C	2.60	0.44
2:R:70:THR:O	2:R:71:MET:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:92:PHE:C	2:R:94:LYS:N	2.75	0.44
2:S:36:MET:O	2:S:37:ARG:C	2.60	0.44
2:T:129:ASP:OD1	2:T:134:GLY:N	2.39	0.44
1:A:97:TYR:OH	1:A:150:PRO:HB2	2.16	0.44
1:A:193:LEU:O	1:A:197:LYS:HB2	2.17	0.44
1:A:217:LYS:HB2	1:A:236:GLU:HG3	1.99	0.44
1:A:223:LYS:C	1:A:223:LYS:HD3	2.43	0.44
1:A:582:ASP:O	1:A:584:GLU:N	2.42	0.44
1:B:186:LYS:CE	1:B:234:LEU:HD12	2.35	0.44
1:B:218:LEU:O	1:B:218:LEU:HG	2.18	0.44
1:B:288:VAL:CG2	1:B:289:GLU:H	2.23	0.44
1:B:368:GLN:CB	1:B:380:VAL:HG13	2.47	0.44
1:B:450:ASN:HD22	1:B:452:GLU:HG3	1.79	0.44
1:C:71:PHE:CD1	1:C:108:ASP:OD1	2.70	0.44
1:C:90:PRO:O	1:C:93:VAL:N	2.49	0.44
1:C:176:GLY:O	1:C:178:SER:N	2.51	0.44
1:C:182:ILE:HA	1:C:187:SER:HA	1.98	0.44
1:C:226:ASP:C	1:C:228:ASN:N	2.75	0.44
1:C:351:HIS:HB2	1:C:386:GLU:HG2	1.99	0.44
1:C:424:LYS:O	1:C:425:GLU:OE1	2.35	0.44
1:C:464:VAL:HG23	1:C:465:LEU:N	2.30	0.44
1:E:142:VAL:HG13	1:E:154:ILE:HD12	1.99	0.44
1:E:193:LEU:O	1:E:197:LYS:HB2	2.17	0.44
1:E:285:LYS:O	1:E:288:VAL:HG22	2.17	0.44
1:E:441:VAL:HG11	1:E:462:ILE:O	2.18	0.44
1:E:630:ARG:HH11	1:E:630:ARG:CG	2.23	0.44
1:F:329:ARG:CD	1:F:590:ASP:OD2	2.63	0.44
1:F:333:LYS:O	1:F:334:LEU:C	2.60	0.44
1:F:517:VAL:C	1:F:519:THR:H	2.26	0.44
1:F:654:ILE:O	1:F:654:ILE:HG22	2.17	0.44
2:O:11:GLU:C	2:O:13:LYS:N	2.75	0.44
2:O:92:PHE:N	2:O:92:PHE:CD1	2.86	0.44
2:P:117:THR:HG23	2:P:120:GLU:CG	2.48	0.44
2:Q:70:THR:O	2:Q:71:MET:C	2.59	0.44
2:R:129:ASP:OD1	2:R:134:GLY:N	2.37	0.44
1:A:263:ASP:O	1:A:264:MET:C	2.59	0.44
1:A:308:VAL:CG2	1:A:336:THR:O	2.65	0.44
1:A:335:ALA:HA	1:A:338:LEU:HG	1.99	0.44
1:A:730:ASN:O	1:A:733:GLU:N	2.51	0.44
1:A:792:VAL:O	1:A:796:ILE:HG12	2.18	0.44
1:B:263:ASP:C	1:B:265:PHE:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:629:ASN:O	1:C:631:SER:N	2.50	0.44
1:C:711:ILE:C	1:C:712:PHE:CD2	2.95	0.44
1:D:74:GLU:HB2	1:D:78:LYS:HB3	1.99	0.44
1:D:288:VAL:CG2	1:D:289:GLU:H	2.22	0.44
1:D:629:ASN:ND2	1:D:631:SER:N	2.66	0.44
1:E:560:LEU:O	1:E:563:ALA:HB3	2.18	0.44
1:F:90:PRO:O	1:F:93:VAL:N	2.50	0.44
1:F:179:LEU:CG	1:F:180:ASP:N	2.79	0.44
1:F:319:ALA:O	1:F:323:ASN:HA	2.17	0.44
1:F:332:ASN:OD1	1:F:334:LEU:HB2	2.18	0.44
1:F:504:ILE:O	1:F:507:GLN:CB	2.64	0.44
1:F:700:TYR:CD1	1:F:727:GLN:C	2.96	0.44
2:P:65:PHE:O	2:P:68:PHE:HB3	2.17	0.44
2:Q:65:PHE:HB3	2:Q:66:PRO:HD3	2.00	0.44
2:S:70:THR:O	2:S:71:MET:C	2.58	0.44
2:S:108:VAL:O	2:S:112:LEU:HD12	2.16	0.44
2:T:108:VAL:O	2:T:112:LEU:HD12	2.17	0.44
1:A:179:LEU:CG	1:A:180:ASP:H	2.28	0.44
1:A:179:LEU:CG	1:A:180:ASP:N	2.78	0.44
1:A:197:LYS:NZ	1:A:197:LYS:CB	2.80	0.44
1:A:527:LYS:HG2	2:O:145:MET:SD	2.58	0.44
1:A:542:PRO:HA	1:A:548:THR:HG23	1.98	0.44
1:A:716:LYS:O	1:A:717:LYS:C	2.61	0.44
1:B:142:VAL:HG13	1:B:154:ILE:HD12	2.00	0.44
1:B:176:GLY:C	1:B:178:SER:H	2.24	0.44
1:B:332:ASN:OD1	1:B:334:LEU:HB2	2.18	0.44
1:B:455:TYR:CZ	1:B:469:PHE:CZ	3.05	0.44
1:B:480:ASN:HD22	1:B:481:VAL:H	1.65	0.44
1:B:523:LEU:HD11	2:P:144:MET:HG3	2.00	0.44
1:B:609:GLU:N	1:B:609:GLU:CD	2.76	0.44
1:B:687:GLU:O	1:B:690:LYS:HB2	2.16	0.44
1:B:700:TYR:CD1	1:B:727:GLN:C	2.95	0.44
1:B:746:LYS:HD2	1:B:747:ASN:HD22	1.82	0.44
1:B:752:LEU:HA	1:B:752:LEU:HD23	1.79	0.44
1:C:263:ASP:C	1:C:265:PHE:N	2.74	0.44
1:D:223:LYS:C	1:D:223:LYS:HD3	2.43	0.44
1:D:668:SER:N	2:R:14:GLU:OE1	2.51	0.44
1:D:718:ARG:HH12	1:D:767:GLN:HE21	1.64	0.44
1:E:223:LYS:C	1:E:223:LYS:HD3	2.43	0.44
1:E:368:GLN:C	1:E:370:LEU:N	2.76	0.44
1:E:435:LEU:HG	1:E:446:ILE:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:456:LYS:HD3	1:E:471:TRP:CG	2.52	0.44
1:E:629:ASN:C	1:E:631:SER:N	2.74	0.44
1:E:688:PHE:C	1:E:688:PHE:HD2	2.22	0.44
1:E:718:ARG:NH1	1:E:767:GLN:HE21	2.15	0.44
1:E:748:TYR:O	1:E:751:TYR:N	2.51	0.44
1:F:173:ILE:C	1:F:175:LYS:H	2.24	0.44
1:F:180:ASP:O	1:F:182:ILE:N	2.51	0.44
1:F:223:LYS:HD3	1:F:223:LYS:C	2.43	0.44
2:O:83:GLU:O	2:O:84:GLU:C	2.60	0.44
2:Q:62:THR:C	2:Q:63:ILE:HG13	2.43	0.44
2:Q:92:PHE:C	2:Q:94:LYS:N	2.75	0.44
2:R:89:PHE:HB2	2:R:141:PHE:CD2	2.51	0.44
2:R:92:PHE:CD1	2:R:92:PHE:N	2.86	0.44
2:S:129:ASP:OD1	2:S:134:GLY:N	2.37	0.44
2:T:57:ALA:C	2:T:59:GLY:N	2.76	0.44
2:T:65:PHE:HB3	2:T:66:PRO:HD3	2.00	0.44
1:A:90:PRO:HG3	1:A:249:PHE:CZ	2.52	0.44
1:A:186:LYS:CE	1:A:234:LEU:HD12	2.35	0.44
1:A:230:ILE:HG13	1:A:237:PHE:CD2	2.53	0.44
1:A:700:TYR:CD1	1:A:727:GLN:C	2.95	0.44
1:A:748:TYR:O	1:A:751:TYR:N	2.51	0.44
1:B:76:LEU:O	1:B:80:GLN:N	2.45	0.44
1:B:179:LEU:CG	1:B:180:ASP:H	2.28	0.44
1:B:180:ASP:O	1:B:182:ILE:N	2.51	0.44
1:B:217:LYS:HB3	1:B:217:LYS:HZ2	1.82	0.44
1:B:226:ASP:C	1:B:228:ASN:N	2.76	0.44
1:B:305:SER:HB2	1:B:594:PHE:CE1	2.52	0.44
1:B:480:ASN:ND2	1:B:483:GLY:CA	2.79	0.44
1:B:762:LEU:O	1:B:766:HIS:HB2	2.16	0.44
1:C:115:LYS:CE	1:C:116:GLU:HG2	2.47	0.44
1:C:185:ASP:HA	1:C:194:ASN:CG	2.43	0.44
1:C:319:ALA:O	1:C:323:ASN:HA	2.17	0.44
1:C:700:TYR:CD1	1:C:727:GLN:C	2.96	0.44
1:D:217:LYS:HB2	1:D:236:GLU:HG3	1.99	0.44
1:D:281:GLU:O	1:D:285:LYS:HG2	2.17	0.44
1:E:97:TYR:HA	1:E:100:LEU:HD12	2.00	0.44
1:E:218:LEU:O	1:E:218:LEU:HG	2.18	0.44
1:E:368:GLN:CB	1:E:380:VAL:HG13	2.47	0.44
1:E:636:ALA:O	1:E:640:LYS:CA	2.64	0.44
1:F:217:LYS:HB2	1:F:236:GLU:HG3	2.00	0.44
1:F:281:GLU:O	1:F:285:LYS:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:464:VAL:HG23	1:F:465:LEU:N	2.32	0.44
1:F:480:ASN:HD22	1:F:481:VAL:H	1.66	0.44
2:O:57:ALA:C	2:O:59:GLY:N	2.76	0.44
2:R:5:THR:OG1	2:R:6:GLU:N	2.51	0.44
2:S:84:GLU:OE2	2:S:84:GLU:N	2.46	0.44
2:S:101:SER:OG	2:S:104:GLU:HG2	2.17	0.44
1:A:226:ASP:C	1:A:228:ASN:H	2.25	0.44
1:A:357:TRP:CZ2	1:A:370:LEU:HD23	2.53	0.44
1:A:549:LEU:HB2	1:A:553:GLN:HE21	1.82	0.44
1:A:752:LEU:HA	1:A:752:LEU:HD23	1.77	0.44
1:A:762:LEU:O	1:A:766:HIS:HB2	2.18	0.44
1:B:193:LEU:O	1:B:197:LYS:HB2	2.17	0.44
1:B:305:SER:C	1:B:307:LEU:N	2.76	0.44
1:B:348:LEU:O	1:B:349:ASN:C	2.61	0.44
1:B:743:PRO:O	1:B:746:LYS:HB3	2.18	0.44
1:C:368:GLN:C	1:C:370:LEU:H	2.24	0.44
1:C:443:GLU:HG3	1:C:458:LYS:HZ2	1.83	0.44
1:D:116:GLU:HG3	1:D:117:LEU:HD23	1.98	0.44
1:D:234:LEU:CG	1:D:235:THR:H	2.31	0.44
1:D:435:LEU:HD23	1:D:435:LEU:HA	1.80	0.44
1:D:517:VAL:HB	1:D:525:LYS:NZ	2.32	0.44
1:E:93:VAL:HG13	1:E:94:LEU:N	2.33	0.44
1:E:230:ILE:HG13	1:E:237:PHE:CD2	2.53	0.44
1:E:327:LEU:CG	1:E:595:ILE:HG12	2.47	0.44
1:E:333:LYS:O	1:E:334:LEU:C	2.60	0.44
1:E:391:ILE:CD1	1:E:399:GLY:HA2	2.47	0.44
1:E:540:ARG:NH1	1:E:627:TYR:CE1	2.86	0.44
1:E:582:ASP:O	1:E:584:GLU:N	2.46	0.44
1:E:762:LEU:O	1:E:766:HIS:HB2	2.17	0.44
1:F:353:LYS:N	1:F:368:GLN:HE22	2.07	0.44
1:F:448:ASP:O	1:F:449:GLU:C	2.60	0.44
1:F:706:ASN:OD1	1:F:707:SER:N	2.51	0.44
1:F:722:ILE:HD13	1:F:764:LEU:CD2	2.47	0.44
1:F:762:LEU:O	1:F:766:HIS:HB2	2.17	0.44
1:F:794:GLN:HE21	1:F:794:GLN:HB3	1.61	0.44
2:P:11:GLU:C	2:P:13:LYS:N	2.76	0.44
1:A:90:PRO:O	1:A:91:LYS:C	2.61	0.44
1:A:179:LEU:O	1:A:180:ASP:C	2.60	0.44
1:A:285:LYS:O	1:A:288:VAL:HG22	2.17	0.44
1:A:288:VAL:CG2	1:A:289:GLU:H	2.23	0.44
1:A:304:ALA:HB3	1:A:604:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:540:ARG:HH22	1:A:630:ARG:HE	1.65	0.44
1:A:654:ILE:C	1:A:655:ASN:HD22	2.26	0.44
1:A:687:GLU:O	1:A:690:LYS:N	2.51	0.44
1:B:74:GLU:HB2	1:B:78:LYS:HB3	2.00	0.44
1:B:217:LYS:NZ	1:B:233:ASN:HB3	2.33	0.44
1:B:350:VAL:HG21	1:B:488:LEU:HD12	1.99	0.44
1:B:435:LEU:HG	1:B:446:ILE:CG2	2.46	0.44
1:B:527:LYS:C	1:B:529:VAL:N	2.76	0.44
1:B:530:THR:HG23	2:P:88:ALA:HB1	2.00	0.44
1:C:517:VAL:HB	1:C:525:LYS:NZ	2.30	0.44
1:C:622:LYS:HA	1:C:622:LYS:HD3	1.85	0.44
1:C:746:LYS:HD2	1:C:747:ASN:HD22	1.83	0.44
1:C:792:VAL:O	1:C:796:ILE:HG12	2.17	0.44
1:D:96:ILE:O	1:D:100:LEU:HD12	2.18	0.44
1:D:450:ASN:HD22	1:D:452:GLU:HG3	1.78	0.44
1:D:648:PRO:O	1:D:649:ILE:C	2.60	0.44
1:D:762:LEU:O	1:D:766:HIS:HB2	2.17	0.44
1:E:88:LYS:NZ	1:E:172:GLU:CD	2.75	0.44
1:E:184:LYS:CE	1:E:191:GLU:CB	2.94	0.44
1:E:263:ASP:O	1:E:265:PHE:N	2.51	0.44
1:E:263:ASP:C	1:E:265:PHE:N	2.75	0.44
1:E:356:ASP:OD2	1:E:356:ASP:N	2.50	0.44
1:E:527:LYS:HG2	2:S:145:MET:SD	2.58	0.44
1:E:654:ILE:C	1:E:655:ASN:HD22	2.26	0.44
1:F:218:LEU:HG	1:F:218:LEU:O	2.17	0.44
1:F:263:ASP:O	1:F:265:PHE:N	2.50	0.44
1:F:582:ASP:O	1:F:584:GLU:N	2.43	0.44
1:F:643:ILE:HG22	1:F:644:GLU:H	1.82	0.44
1:F:711:ILE:C	1:F:712:PHE:CD2	2.95	0.44
1:F:743:PRO:O	1:F:746:LYS:HB3	2.17	0.44
1:F:751:TYR:C	1:F:753:LYS:H	2.25	0.44
2:R:117:THR:HG23	2:R:120:GLU:CB	2.46	0.44
2:S:65:PHE:O	2:S:68:PHE:HB3	2.18	0.44
2:T:117:THR:HG23	2:T:120:GLU:CG	2.47	0.44
2:T:125:ILE:O	2:T:126:ARG:C	2.61	0.44
1:A:324:THR:CG2	1:A:499:PRO:HA	2.48	0.44
1:A:482:GLU:HA	1:A:482:GLU:OE2	2.17	0.44
1:A:609:GLU:N	1:A:609:GLU:CD	2.76	0.44
1:A:636:ALA:HA	1:A:637:PRO:HD3	1.82	0.44
1:B:356:ASP:N	1:B:356:ASP:OD2	2.50	0.44
1:B:606:LYS:HB2	1:B:610:MET:HE1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:LEU:CG	1:C:180:ASP:H	2.29	0.44
1:C:210:PHE:C	1:C:210:PHE:HD1	2.26	0.44
1:C:217:LYS:HB2	1:C:236:GLU:HG3	1.99	0.44
1:C:447:SER:OG	1:C:448:ASP:N	2.51	0.44
1:C:527:LYS:C	1:C:529:VAL:N	2.76	0.44
1:C:716:LYS:O	1:C:717:LYS:C	2.60	0.44
1:D:106:PHE:CZ	1:D:171:TYR:OH	2.67	0.44
1:D:301:ALA:O	1:D:304:ALA:N	2.43	0.44
1:D:333:LYS:O	1:D:334:LEU:C	2.60	0.44
1:D:453:VAL:HG12	1:D:454:GLN:N	2.32	0.44
1:D:508:ILE:HG21	1:D:513:TRP:HB2	1.99	0.44
1:D:519:THR:HG21	1:D:525:LYS:HA	2.00	0.44
1:D:683:GLY:O	1:D:684:ASP:C	2.56	0.44
1:D:710:HIS:C	1:D:712:PHE:N	2.76	0.44
1:D:741:ILE:O	1:D:741:ILE:HG13	2.18	0.44
1:D:746:LYS:HD2	1:D:747:ASN:HD22	1.83	0.44
1:E:234:LEU:CG	1:E:235:THR:H	2.31	0.44
1:E:360:VAL:HA	1:E:403:LEU:HD21	2.00	0.44
1:E:679:TYR:CG	1:E:691:LYS:HB2	2.53	0.44
1:E:700:TYR:CD1	1:E:727:GLN:C	2.95	0.44
1:F:263:ASP:C	1:F:265:PHE:N	2.75	0.44
1:F:332:ASN:OD1	1:F:334:LEU:N	2.44	0.44
1:F:391:ILE:HG12	1:F:399:GLY:HA2	1.99	0.44
1:F:597:ASN:C	1:F:599:GLU:H	2.25	0.44
2:O:117:THR:HG23	2:O:120:GLU:CG	2.48	0.44
2:P:24:ASP:HB2	2:P:26:THR:CG2	2.35	0.44
2:Q:36:MET:O	2:Q:37:ARG:C	2.61	0.44
2:Q:92:PHE:N	2:Q:92:PHE:CD1	2.86	0.44
2:R:36:MET:O	2:R:37:ARG:C	2.61	0.44
2:T:89:PHE:HB2	2:T:141:PHE:CD2	2.52	0.44
1:A:255:THR:HA	1:A:258:GLU:HB3	1.99	0.43
1:A:343:VAL:HG12	1:A:344:ALA:O	2.18	0.43
1:A:356:ASP:OD2	1:A:356:ASP:N	2.51	0.43
1:A:480:ASN:ND2	1:A:483:GLY:CA	2.79	0.43
1:A:517:VAL:HB	1:A:525:LYS:NZ	2.30	0.43
1:B:255:THR:C	1:B:257:LEU:N	2.73	0.43
1:C:88:LYS:NZ	1:C:172:GLU:CD	2.75	0.43
1:C:210:PHE:C	1:C:210:PHE:CD1	2.96	0.43
1:C:435:LEU:HG	1:C:446:ILE:CG2	2.46	0.43
1:C:513:TRP:CH2	1:C:517:VAL:HG11	2.53	0.43
1:C:517:VAL:C	1:C:519:THR:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:540:ARG:HH22	1:C:630:ARG:HE	1.65	0.43
1:C:656:THR:HG22	1:C:657:ILE:O	2.18	0.43
1:C:722:ILE:HD13	1:C:764:LEU:CD2	2.47	0.43
1:D:83:GLN:O	1:D:84:ASP:C	2.61	0.43
1:D:173:ILE:C	1:D:175:LYS:H	2.25	0.43
1:D:173:ILE:HA	1:D:242:SER:HB3	1.99	0.43
1:D:179:LEU:O	1:D:180:ASP:C	2.60	0.43
1:D:191:GLU:O	1:D:193:LEU:N	2.51	0.43
1:D:218:LEU:HG	1:D:218:LEU:O	2.18	0.43
1:D:391:ILE:HG12	1:D:399:GLY:HA2	2.01	0.43
1:D:443:GLU:HG3	1:D:458:LYS:HZ2	1.83	0.43
1:D:480:ASN:ND2	1:D:483:GLY:CA	2.80	0.43
1:D:688:PHE:C	1:D:688:PHE:HD2	2.23	0.43
1:D:743:PRO:O	1:D:746:LYS:HB3	2.18	0.43
1:E:71:PHE:O	1:E:78:LYS:NZ	2.50	0.43
1:E:112:VAL:C	1:E:114:HIS:N	2.75	0.43
1:E:517:VAL:C	1:E:519:THR:H	2.26	0.43
1:E:609:GLU:N	1:E:609:GLU:CD	2.76	0.43
1:F:285:LYS:O	1:F:288:VAL:HG22	2.18	0.43
1:F:305:SER:C	1:F:307:LEU:N	2.76	0.43
2:O:62:THR:C	2:O:63:ILE:HG13	2.42	0.43
2:P:102:ALA:CB	2:P:125:ILE:HG13	2.46	0.43
2:Q:136:VAL:HG23	2:Q:136:VAL:O	2.17	0.43
2:R:109:MET:HG3	2:R:116:LEU:HD11	2.00	0.43
2:S:9:ILE:CD1	2:S:69:LEU:HD22	2.45	0.43
1:A:115:LYS:CE	1:A:116:GLU:HG2	2.47	0.43
1:A:226:ASP:C	1:A:228:ASN:N	2.75	0.43
1:A:597:ASN:C	1:A:599:GLU:H	2.25	0.43
1:B:93:VAL:HG13	1:B:94:LEU:N	2.34	0.43
1:B:96:ILE:O	1:B:100:LEU:HD12	2.17	0.43
1:B:335:ALA:HB1	1:B:489:THR:OG1	2.19	0.43
1:B:513:TRP:CH2	1:B:517:VAL:HG11	2.53	0.43
1:C:93:VAL:HG13	1:C:94:LEU:N	2.33	0.43
1:C:230:ILE:HG13	1:C:237:PHE:CD2	2.53	0.43
1:C:329:ARG:CD	1:C:590:ASP:OD2	2.61	0.43
1:C:629:ASN:C	1:C:631:SER:N	2.75	0.43
1:C:668:SER:N	2:Q:14:GLU:OE1	2.51	0.43
1:C:718:ARG:HH12	1:C:767:GLN:HE21	1.64	0.43
1:D:90:PRO:O	1:D:93:VAL:N	2.51	0.43
1:D:517:VAL:C	1:D:519:THR:H	2.26	0.43
1:D:700:TYR:CD1	1:D:727:GLN:C	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:765:THR:HA	1:D:769:SER:CB	2.21	0.43
1:E:180:ASP:C	1:E:182:ILE:H	2.26	0.43
1:E:281:GLU:O	1:E:285:LYS:HG2	2.17	0.43
1:E:622:LYS:HD3	1:E:622:LYS:HA	1.85	0.43
1:F:184:LYS:CE	1:F:191:GLU:CB	2.95	0.43
1:F:230:ILE:HG13	1:F:237:PHE:CD2	2.53	0.43
1:F:255:THR:HA	1:F:258:GLU:HB3	2.00	0.43
1:F:349:ASN:HB2	1:F:398:ILE:HG13	2.00	0.43
1:F:365:PRO:O	1:F:366:PHE:C	2.60	0.43
1:F:643:ILE:HG22	1:F:644:GLU:N	2.33	0.43
2:O:5:THR:OG1	2:O:6:GLU:N	2.50	0.43
2:O:101:SER:OG	2:O:104:GLU:HG2	2.17	0.43
2:Q:11:GLU:C	2:Q:13:LYS:N	2.76	0.43
2:R:97:ASN:HD22	2:R:99:TYR:H	1.64	0.43
2:T:11:GLU:C	2:T:13:LYS:N	2.75	0.43
2:T:97:ASN:HD22	2:T:99:TYR:H	1.64	0.43
1:A:513:TRP:CH2	1:A:517:VAL:HG11	2.53	0.43
1:A:629:ASN:ND2	1:A:631:SER:N	2.63	0.43
1:A:743:PRO:O	1:A:746:LYS:HB3	2.19	0.43
1:B:197:LYS:NZ	1:B:197:LYS:CB	2.81	0.43
1:B:210:PHE:CD1	1:B:210:PHE:C	2.96	0.43
1:B:223:LYS:C	1:B:223:LYS:HD3	2.43	0.43
1:B:519:THR:HG21	1:B:525:LYS:HA	2.00	0.43
1:B:560:LEU:O	1:B:563:ALA:HB3	2.18	0.43
1:C:182:ILE:C	1:C:183:SER:O	2.53	0.43
1:C:225:ILE:HG12	1:C:229:PHE:HD2	1.80	0.43
1:C:304:ALA:HB3	1:C:604:LEU:HD22	1.99	0.43
1:C:384:ASN:O	1:C:386:GLU:N	2.51	0.43
1:C:671:ARG:NH1	1:C:671:ARG:HG3	2.34	0.43
1:C:687:GLU:O	1:C:690:LYS:N	2.51	0.43
1:D:304:ALA:HB3	1:D:604:LEU:HD22	2.00	0.43
1:D:305:SER:C	1:D:307:LEU:N	2.76	0.43
1:D:420:LEU:HD13	1:D:420:LEU:O	2.18	0.43
1:E:350:VAL:HG21	1:E:488:LEU:HD12	2.00	0.43
1:F:451:ASN:O	1:F:452:GLU:C	2.60	0.43
1:F:668:SER:N	2:T:14:GLU:OE1	2.51	0.43
2:O:65:PHE:O	2:O:68:PHE:HB3	2.18	0.43
2:R:125:ILE:O	2:R:126:ARG:C	2.62	0.43
2:S:92:PHE:N	2:S:92:PHE:CD1	2.87	0.43
1:A:218:LEU:HG	1:A:218:LEU:O	2.18	0.43
1:A:326:ILE:C	1:A:327:LEU:HD12	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:GLU:C	1:A:414:LYS:N	2.76	0.43
1:A:706:ASN:O	2:O:130:ILE:HD13	2.18	0.43
1:B:93:VAL:CG1	1:B:94:LEU:N	2.81	0.43
1:B:97:TYR:HA	1:B:100:LEU:HD12	2.00	0.43
1:B:357:TRP:HZ3	1:B:439:ASN:CB	2.23	0.43
1:B:504:ILE:H	1:B:504:ILE:CD1	2.31	0.43
1:B:533:LEU:HD23	2:P:112:LEU:HD21	2.01	0.43
1:B:751:TYR:C	1:B:753:LYS:H	2.25	0.43
1:C:70:GLU:HB2	1:C:107:THR:HG22	2.00	0.43
1:C:128:MET:CE	1:C:235:THR:HB	2.46	0.43
1:C:349:ASN:HB2	1:C:398:ILE:HG13	2.00	0.43
1:C:360:VAL:HA	1:C:403:LEU:HD21	2.01	0.43
1:C:391:ILE:HG12	1:C:399:GLY:HA2	2.00	0.43
1:D:360:VAL:HA	1:D:403:LEU:HD21	2.01	0.43
1:D:365:PRO:O	1:D:366:PHE:C	2.60	0.43
1:D:365:PRO:C	1:D:367:ASP:N	2.76	0.43
1:D:448:ASP:O	1:D:449:GLU:C	2.62	0.43
1:D:609:GLU:N	1:D:609:GLU:CD	2.76	0.43
1:E:76:LEU:O	1:E:80:GLN:N	2.48	0.43
1:E:226:ASP:C	1:E:228:ASN:N	2.75	0.43
1:E:255:THR:HA	1:E:258:GLU:HB3	2.00	0.43
1:E:391:ILE:HG12	1:E:399:GLY:HA2	2.00	0.43
1:E:448:ASP:O	1:E:449:GLU:C	2.61	0.43
1:E:513:TRP:HZ2	2:S:114:GLU:HB2	1.82	0.43
1:E:523:LEU:HD11	2:S:144:MET:HG3	2.00	0.43
1:E:716:LYS:O	1:E:717:LYS:C	2.61	0.43
1:E:751:TYR:C	1:E:753:LYS:H	2.26	0.43
1:F:170:TYR:O	1:F:174:GLY:HA3	2.17	0.43
1:F:279:ILE:O	1:F:283:LEU:HB2	2.18	0.43
1:F:508:ILE:HG12	1:F:536:TYR:CD2	2.53	0.43
1:F:687:GLU:O	1:F:690:LYS:N	2.52	0.43
1:F:730:ASN:O	1:F:733:GLU:N	2.51	0.43
2:P:36:MET:O	2:P:37:ARG:C	2.62	0.43
2:Q:5:THR:OG1	2:Q:6:GLU:N	2.51	0.43
2:S:24:ASP:CG	2:S:26:THR:HG23	2.43	0.43
2:S:65:PHE:HB3	2:S:66:PRO:HD3	2.00	0.43
2:T:13:LYS:C	2:T:15:ALA:N	2.70	0.43
1:A:89:ILE:HG22	1:A:90:PRO:HD2	1.99	0.43
1:A:170:TYR:O	1:A:174:GLY:HA3	2.18	0.43
1:A:210:PHE:C	1:A:210:PHE:HD1	2.26	0.43
1:A:343:VAL:HG13	1:A:487:PRO:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:519:THR:HG21	1:A:525:LYS:HA	2.01	0.43
1:A:629:ASN:C	1:A:631:SER:N	2.74	0.43
1:B:285:LYS:O	1:B:288:VAL:HG22	2.17	0.43
1:B:517:VAL:C	1:B:519:THR:H	2.27	0.43
1:B:523:LEU:HD22	2:P:127:GLU:HG2	2.01	0.43
1:C:519:THR:HG21	1:C:525:LYS:HA	2.00	0.43
1:D:191:GLU:O	1:D:192:PHE:C	2.60	0.43
1:D:210:PHE:C	1:D:210:PHE:CD1	2.96	0.43
1:D:513:TRP:CH2	1:D:517:VAL:HG11	2.53	0.43
1:D:632:TYR:CE2	1:D:643:ILE:HG21	2.54	0.43
1:D:654:ILE:C	1:D:655:ASN:HD22	2.26	0.43
1:E:137:PHE:O	1:E:138:ALA:C	2.61	0.43
1:E:197:LYS:HD3	1:E:263:ASP:OD1	2.17	0.43
1:E:376:GLN:HB3	1:E:379:ALA:HB3	2.00	0.43
1:F:70:GLU:HB2	1:F:107:THR:HG22	2.00	0.43
1:F:376:GLN:HB3	1:F:379:ALA:HB3	2.01	0.43
1:F:775:LEU:O	1:F:776:LEU:C	2.61	0.43
2:P:69:LEU:HA	2:P:69:LEU:HD23	1.75	0.43
2:S:39:LEU:HD12	2:S:39:LEU:HA	1.83	0.43
2:S:117:THR:HG23	2:S:120:GLU:CG	2.48	0.43
2:T:143:GLN:HE21	2:T:143:GLN:HB3	1.64	0.43
1:A:350:VAL:HG21	1:A:488:LEU:HD12	2.00	0.43
1:A:384:ASN:O	1:A:386:GLU:N	2.52	0.43
1:A:775:LEU:O	1:A:778:LYS:N	2.52	0.43
1:B:131:ARG:HG3	1:B:243:LEU:HD13	1.99	0.43
1:B:184:LYS:HE3	1:B:191:GLU:HB3	1.99	0.43
1:B:384:ASN:O	1:B:386:GLU:N	2.52	0.43
1:B:420:LEU:O	1:B:420:LEU:HD13	2.18	0.43
1:C:252:ASP:OD2	1:C:253:HIS:CD2	2.70	0.43
1:C:387:ASN:N	1:C:387:ASN:ND2	2.65	0.43
1:C:533:LEU:HD23	2:Q:112:LEU:HD21	2.00	0.43
1:C:775:LEU:O	1:C:778:LYS:N	2.52	0.43
1:D:137:PHE:O	1:D:138:ALA:C	2.61	0.43
1:D:173:ILE:CG2	1:D:174:GLY:N	2.81	0.43
1:D:542:PRO:HA	1:D:548:THR:HG23	1.99	0.43
1:D:622:LYS:HD3	1:D:622:LYS:HA	1.85	0.43
1:D:775:LEU:O	1:D:778:LYS:N	2.52	0.43
1:E:176:GLY:O	1:E:178:SER:N	2.51	0.43
1:E:351:HIS:HB2	1:E:386:GLU:HG2	2.01	0.43
1:E:512:GLU:O	1:E:515:LYS:NZ	2.51	0.43
1:E:606:LYS:HB2	1:E:610:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:711:ILE:C	1:E:712:PHE:CD2	2.95	0.43
1:F:83:GLN:O	1:F:84:ASP:C	2.61	0.43
1:F:116:GLU:HG3	1:F:117:LEU:HD23	2.00	0.43
1:F:513:TRP:CH2	1:F:517:VAL:HG11	2.53	0.43
1:F:629:ASN:O	1:F:631:SER:N	2.51	0.43
1:F:716:LYS:O	1:F:717:LYS:C	2.61	0.43
2:Q:48:LEU:HD23	2:Q:51:MET:HE2	2.00	0.43
2:Q:109:MET:HG3	2:Q:116:LEU:HD11	2.00	0.43
2:Q:125:ILE:O	2:Q:126:ARG:C	2.61	0.43
2:Q:129:ASP:OD1	2:Q:134:GLY:N	2.39	0.43
2:R:101:SER:OG	2:R:104:GLU:HG2	2.18	0.43
2:S:97:ASN:HD22	2:S:99:TYR:H	1.64	0.43
2:T:109:MET:HG3	2:T:116:LEU:HD11	2.00	0.43
1:A:70:GLU:HB2	1:A:107:THR:HG22	2.00	0.43
1:A:254:ARG:H	1:A:254:ARG:CD	2.19	0.43
1:A:333:LYS:O	1:A:334:LEU:C	2.60	0.43
1:A:435:LEU:HD23	1:A:435:LEU:HA	1.80	0.43
1:A:448:ASP:O	1:A:449:GLU:C	2.62	0.43
1:A:630:ARG:HH11	1:A:630:ARG:CG	2.24	0.43
1:B:90:PRO:HG2	1:B:93:VAL:CG1	2.48	0.43
1:B:255:THR:HA	1:B:258:GLU:HB3	1.99	0.43
1:B:279:ILE:O	1:B:283:LEU:HB2	2.18	0.43
1:B:389:LYS:HA	1:B:392:THR:HB	2.01	0.43
1:B:508:ILE:HG21	1:B:513:TRP:HB2	2.00	0.43
1:B:688:PHE:C	1:B:688:PHE:HD2	2.22	0.43
1:C:173:ILE:C	1:C:175:LYS:H	2.25	0.43
1:C:191:GLU:O	1:C:194:ASN:N	2.50	0.43
1:C:218:LEU:HG	1:C:218:LEU:O	2.19	0.43
1:C:255:THR:HA	1:C:258:GLU:HB3	1.99	0.43
1:C:355:SER:HB2	1:C:371:SER:CA	2.41	0.43
1:C:549:LEU:HB2	1:C:553:GLN:HE21	1.82	0.43
1:C:552:TRP:O	1:C:553:GLN:C	2.60	0.43
1:C:560:LEU:O	1:C:563:ALA:HB3	2.19	0.43
1:C:609:GLU:N	1:C:609:GLU:CD	2.76	0.43
1:C:657:ILE:CD1	1:C:701:LEU:HD23	2.48	0.43
1:D:185:ASP:HA	1:D:194:ASN:CG	2.44	0.43
1:D:348:LEU:O	1:D:349:ASN:C	2.62	0.43
1:D:357:TRP:CZ2	1:D:370:LEU:HD23	2.54	0.43
1:D:629:ASN:C	1:D:631:SER:N	2.75	0.43
1:D:630:ARG:HH11	1:D:630:ARG:CG	2.24	0.43
1:D:751:TYR:C	1:D:753:LYS:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:131:ARG:HG3	1:E:243:LEU:HD13	2.00	0.43
1:E:210:PHE:CD1	1:E:210:PHE:C	2.96	0.43
1:E:412:GLU:C	1:E:414:LYS:N	2.77	0.43
1:E:746:LYS:HD2	1:E:747:ASN:HD22	1.83	0.43
1:E:748:TYR:O	1:E:749:PHE:C	2.62	0.43
1:E:765:THR:CA	1:E:769:SER:HB2	2.20	0.43
1:F:522:SER:O	2:T:124:MET:HE2	2.18	0.43
1:F:556:MET:HB2	1:F:556:MET:HE2	1.72	0.43
1:F:717:LYS:O	1:F:718:ARG:C	2.62	0.43
2:O:48:LEU:HD23	2:O:51:MET:HE2	2.00	0.43
2:T:62:THR:C	2:T:63:ILE:HG13	2.43	0.43
1:A:220:LEU:HG	1:A:223:LYS:HB3	2.01	0.43
1:A:234:LEU:CG	1:A:235:THR:H	2.32	0.43
1:A:552:TRP:O	1:A:553:GLN:C	2.61	0.43
1:B:86:LEU:C	1:B:88:LYS:N	2.77	0.43
1:B:144:GLU:O	1:B:144:GLU:HG3	2.18	0.43
1:B:180:ASP:C	1:B:182:ILE:H	2.27	0.43
1:B:189:ASP:HB3	1:B:190:PRO:CD	2.49	0.43
1:B:270:LYS:HA	1:B:273:LYS:HG3	1.99	0.43
1:B:305:SER:O	1:B:307:LEU:N	2.51	0.43
1:B:349:ASN:HB2	1:B:398:ILE:HG13	2.00	0.43
1:B:451:ASN:O	1:B:452:GLU:C	2.60	0.43
1:C:116:GLU:HG3	1:C:117:LEU:HD23	2.00	0.43
1:C:326:ILE:C	1:C:327:LEU:HD12	2.44	0.43
1:C:327:LEU:CD2	1:C:595:ILE:HG12	2.48	0.43
1:C:368:GLN:C	1:C:370:LEU:N	2.77	0.43
1:C:376:GLN:HB3	1:C:379:ALA:HB3	2.00	0.43
1:C:401:ILE:CG2	1:C:485:LEU:HB3	2.49	0.43
1:C:743:PRO:O	1:C:746:LYS:HB3	2.18	0.43
1:D:115:LYS:CE	1:D:116:GLU:HG2	2.48	0.43
1:D:188:LEU:H	1:D:188:LEU:HG	1.73	0.43
1:D:197:LYS:NZ	1:D:197:LYS:CB	2.82	0.43
1:D:210:PHE:C	1:D:210:PHE:HD1	2.27	0.43
1:D:255:THR:HA	1:D:258:GLU:HB3	2.01	0.43
1:D:748:TYR:O	1:D:751:TYR:N	2.52	0.43
1:D:775:LEU:O	1:D:776:LEU:C	2.61	0.43
1:E:171:TYR:HD1	1:E:175:LYS:HZ1	1.63	0.43
1:E:210:PHE:C	1:E:210:PHE:HD1	2.26	0.43
1:E:451:ASN:O	1:E:452:GLU:C	2.60	0.43
1:E:743:PRO:O	1:E:746:LYS:HB3	2.18	0.43
1:E:775:LEU:O	1:E:776:LEU:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:112:VAL:C	1:F:114:HIS:N	2.76	0.43
1:F:351:HIS:HB2	1:F:386:GLU:HG2	2.00	0.43
1:F:550:SER:H	1:F:553:GLN:NE2	2.13	0.43
1:F:656:THR:HG22	1:F:657:ILE:O	2.19	0.43
1:F:748:TYR:O	1:F:749:PHE:C	2.62	0.43
2:O:22:ASP:OD2	2:O:22:ASP:C	2.62	0.43
2:O:102:ALA:CB	2:O:125:ILE:HG13	2.46	0.43
2:P:48:LEU:HD23	2:P:51:MET:HE2	1.99	0.43
2:R:62:THR:C	2:R:63:ILE:HG13	2.43	0.43
2:R:63:ILE:CG2	2:R:67:GLU:CB	2.97	0.43
2:T:92:PHE:N	2:T:92:PHE:CD1	2.87	0.43
2:T:101:SER:OG	2:T:104:GLU:HG2	2.19	0.43
1:A:112:VAL:O	1:A:114:HIS:N	2.51	0.43
1:A:191:GLU:O	1:A:193:LEU:N	2.52	0.43
1:A:391:ILE:HG12	1:A:399:GLY:HA2	2.01	0.43
1:A:741:ILE:O	1:A:741:ILE:HG13	2.18	0.43
1:B:176:GLY:O	1:B:178:SER:N	2.51	0.43
1:B:345:THR:CG2	1:B:491:ASP:HA	2.49	0.43
1:C:140:ARG:NH1	1:C:141:PHE:HE1	2.16	0.43
1:C:234:LEU:CG	1:C:235:THR:H	2.32	0.43
1:D:89:ILE:CG2	1:D:90:PRO:HD2	2.49	0.43
1:D:180:ASP:O	1:D:182:ILE:N	2.52	0.43
1:D:319:ALA:O	1:D:323:ASN:HA	2.19	0.43
1:D:349:ASN:HB2	1:D:398:ILE:HG13	2.00	0.43
1:D:527:LYS:C	1:D:529:VAL:N	2.77	0.43
1:D:610:MET:HE3	1:D:610:MET:HB2	1.92	0.43
1:D:764:LEU:C	1:D:766:HIS:N	2.51	0.43
1:E:70:GLU:HB2	1:E:107:THR:HG22	2.01	0.43
1:E:293:ILE:H	1:E:293:ILE:HG12	1.44	0.43
1:E:326:ILE:C	1:E:327:LEU:HD12	2.44	0.43
1:F:435:LEU:HG	1:F:446:ILE:CG2	2.47	0.43
1:F:520:PRO:CG	1:F:521:ASN:H	2.31	0.43
2:O:105:LEU:HD21	2:O:124:MET:SD	2.59	0.43
2:P:65:PHE:HB3	2:P:66:PRO:HD3	2.00	0.43
2:P:83:GLU:O	2:P:84:GLU:C	2.62	0.43
2:Q:65:PHE:O	2:Q:68:PHE:HB3	2.19	0.43
2:S:57:ALA:C	2:S:59:GLY:N	2.76	0.43
2:S:62:THR:C	2:S:63:ILE:HG13	2.42	0.43
1:A:180:ASP:O	1:A:182:ILE:N	2.52	0.43
1:A:679:TYR:CG	1:A:691:LYS:HB2	2.54	0.43
1:B:210:PHE:C	1:B:210:PHE:HD1	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:441:VAL:HG11	1:B:462:ILE:O	2.19	0.43
1:B:482:GLU:HA	1:B:482:GLU:OE2	2.18	0.43
1:B:653:LYS:C	1:B:655:ASN:H	2.27	0.43
1:B:775:LEU:O	1:B:778:LYS:N	2.52	0.43
1:C:202:ASP:HB2	1:C:208:LEU:CD2	2.49	0.43
1:C:226:ASP:C	1:C:228:ASN:H	2.27	0.43
1:C:305:SER:C	1:C:307:LEU:N	2.76	0.43
1:C:357:TRP:CZ2	1:C:370:LEU:HD23	2.54	0.43
1:C:435:LEU:HD23	1:C:435:LEU:HA	1.81	0.43
1:C:508:ILE:HG12	1:C:536:TYR:CD2	2.54	0.43
1:D:177:ILE:C	1:D:180:ASP:OD1	2.62	0.43
1:D:271:LEU:HA	1:D:275:GLY:HA3	2.01	0.43
1:D:368:GLN:C	1:D:370:LEU:N	2.77	0.43
1:D:679:TYR:CG	1:D:691:LYS:HB2	2.54	0.43
1:E:181:ILE:O	1:E:181:ILE:HG12	2.17	0.43
1:E:656:THR:O	1:E:657:ILE:C	2.61	0.43
1:E:668:SER:N	2:S:14:GLU:OE1	2.52	0.43
1:F:217:LYS:NZ	1:F:233:ASN:HB3	2.33	0.43
1:F:368:GLN:HB2	1:F:380:VAL:HG13	2.00	0.43
1:F:726:ILE:O	1:F:727:GLN:C	2.62	0.43
2:Q:55:VAL:CG1	2:Q:71:MET:HE3	2.45	0.43
2:S:115:LYS:NZ	2:S:115:LYS:CA	2.81	0.43
2:T:65:PHE:O	2:T:68:PHE:HB3	2.19	0.43
2:T:117:THR:HG23	2:T:120:GLU:HG3	2.00	0.43
1:A:93:VAL:CG1	1:A:94:LEU:N	2.82	0.42
1:A:517:VAL:C	1:A:519:THR:H	2.26	0.42
1:A:656:THR:O	1:A:755:ARG:HD2	2.17	0.42
1:B:92:ASP:O	1:B:93:VAL:C	2.60	0.42
1:B:111:LEU:HD23	1:B:155:ASN:ND2	2.33	0.42
1:B:281:GLU:O	1:B:285:LYS:HG2	2.19	0.42
1:B:308:VAL:O	1:B:311:HIS:N	2.46	0.42
1:B:368:GLN:HB2	1:B:380:VAL:HG13	2.01	0.42
1:B:376:GLN:HB3	1:B:379:ALA:HB3	2.01	0.42
1:B:554:LYS:O	1:B:557:LEU:N	2.51	0.42
1:B:629:ASN:C	1:B:631:SER:N	2.75	0.42
1:B:748:TYR:O	1:B:751:TYR:N	2.52	0.42
1:C:77:ASP:OD1	1:C:159:TYR:HE2	2.01	0.42
1:C:335:ALA:HA	1:C:338:LEU:HG	2.01	0.42
1:C:595:ILE:HG22	1:C:596:ILE:H	1.83	0.42
1:C:730:ASN:O	1:C:733:GLU:N	2.52	0.42
1:D:111:LEU:HD23	1:D:155:ASN:ND2	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:263:ASP:C	1:D:265:PHE:N	2.76	0.42
1:D:663:PHE:CD1	1:D:752:LEU:HD11	2.54	0.42
1:D:752:LEU:HA	1:D:752:LEU:HD23	1.78	0.42
1:E:89:ILE:HG22	1:E:90:PRO:HD2	2.00	0.42
1:E:343:VAL:HG13	1:E:487:PRO:O	2.19	0.42
1:E:349:ASN:HB2	1:E:398:ILE:HG13	2.00	0.42
1:E:360:VAL:CG1	1:E:370:LEU:HD22	2.44	0.42
1:E:504:ILE:H	1:E:504:ILE:CD1	2.32	0.42
1:F:365:PRO:C	1:F:367:ASP:N	2.75	0.42
1:F:368:GLN:C	1:F:370:LEU:N	2.76	0.42
1:F:718:ARG:NH1	1:F:767:GLN:HE21	2.17	0.42
2:P:24:ASP:CG	2:P:26:THR:HG23	2.44	0.42
2:P:117:THR:HG23	2:P:120:GLU:HG3	2.00	0.42
2:Q:117:THR:HG23	2:Q:120:GLU:CG	2.49	0.42
2:R:55:VAL:CG1	2:R:71:MET:HE3	2.45	0.42
2:R:57:ALA:C	2:R:59:GLY:N	2.76	0.42
2:S:22:ASP:OD2	2:S:22:ASP:C	2.62	0.42
2:S:70:THR:O	2:S:72:MET:N	2.52	0.42
1:A:267:TYR:O	1:A:268:MET:C	2.62	0.42
1:A:376:GLN:HB3	1:A:379:ALA:HB3	2.01	0.42
1:B:408:LEU:H	1:B:408:LEU:CD1	2.03	0.42
1:B:630:ARG:NH1	2:P:83:GLU:HG2	2.34	0.42
1:B:665:LYS:O	1:B:668:SER:HB3	2.19	0.42
1:B:679:TYR:CG	1:B:691:LYS:HB2	2.53	0.42
1:B:717:LYS:O	1:B:718:ARG:C	2.63	0.42
1:C:90:PRO:O	1:C:91:LYS:C	2.61	0.42
1:C:181:ILE:O	1:C:181:ILE:HG12	2.18	0.42
1:C:710:HIS:C	1:C:712:PHE:N	2.76	0.42
1:C:725:GLY:O	1:C:726:ILE:C	2.61	0.42
1:D:89:ILE:H	1:D:89:ILE:HG13	1.57	0.42
1:D:252:ASP:O	1:D:254:ARG:HD2	2.20	0.42
1:D:687:GLU:O	1:D:690:LYS:N	2.52	0.42
1:E:397:GLU:O	1:E:398:ILE:HD13	2.19	0.42
1:E:401:ILE:CG2	1:E:485:LEU:HB3	2.49	0.42
1:E:665:LYS:O	1:E:668:SER:HB3	2.18	0.42
1:E:684:ASP:C	1:E:686:ASP:N	2.77	0.42
1:F:93:VAL:HG13	1:F:94:LEU:N	2.33	0.42
1:F:210:PHE:C	1:F:210:PHE:HD1	2.27	0.42
1:F:234:LEU:CG	1:F:235:THR:H	2.32	0.42
1:F:271:LEU:HB3	1:F:276:PHE:CE2	2.54	0.42
1:F:441:VAL:HG11	1:F:462:ILE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:456:LYS:HD3	1:F:471:TRP:H	1.84	0.42
1:F:508:ILE:HG21	1:F:513:TRP:HB2	1.99	0.42
2:O:65:PHE:HB3	2:O:66:PRO:HD3	2.00	0.42
2:S:86:ARG:O	2:S:86:ARG:HG2	2.18	0.42
1:A:97:TYR:CE1	1:A:178:SER:CB	2.92	0.42
1:A:292:ARG:NE	1:A:617:LYS:HE3	2.35	0.42
1:A:401:ILE:CG2	1:A:485:LEU:HB3	2.49	0.42
1:A:508:ILE:HG12	1:A:536:TYR:CD2	2.54	0.42
1:A:657:ILE:CD1	1:A:701:LEU:HD23	2.50	0.42
1:B:252:ASP:O	1:B:254:ARG:HD2	2.19	0.42
1:B:398:ILE:CD1	1:B:479:LYS:HB3	2.50	0.42
1:B:412:GLU:C	1:B:414:LYS:N	2.77	0.42
1:B:540:ARG:NH1	1:B:627:TYR:CE1	2.87	0.42
1:B:668:SER:N	2:P:14:GLU:OE1	2.52	0.42
1:B:764:LEU:HD23	1:B:764:LEU:HA	1.87	0.42
1:B:775:LEU:O	1:B:776:LEU:C	2.62	0.42
1:C:217:LYS:NZ	1:C:233:ASN:HB3	2.33	0.42
1:C:349:ASN:HD22	1:C:350:VAL:H	1.67	0.42
1:D:326:ILE:C	1:D:327:LEU:HD12	2.44	0.42
1:D:653:LYS:C	1:D:655:ASN:H	2.27	0.42
1:E:695:LYS:CB	2:S:18:LEU:HD22	2.39	0.42
1:E:710:HIS:C	1:E:712:PHE:N	2.75	0.42
1:F:173:ILE:HA	1:F:242:SER:HB3	1.99	0.42
1:F:176:GLY:C	1:F:178:SER:H	2.25	0.42
1:F:197:LYS:NZ	1:F:197:LYS:CB	2.82	0.42
1:F:226:ASP:C	1:F:228:ASN:H	2.27	0.42
1:F:630:ARG:NH1	2:T:83:GLU:HG2	2.34	0.42
1:F:710:HIS:C	1:F:712:PHE:N	2.77	0.42
2:O:63:ILE:CG2	2:O:67:GLU:CB	2.97	0.42
2:P:92:PHE:N	2:P:92:PHE:CD1	2.86	0.42
2:R:59:GLY:O	2:R:60:ASN:C	2.62	0.42
2:R:65:PHE:HB3	2:R:66:PRO:HD3	2.01	0.42
1:A:288:VAL:O	1:A:291:ASP:O	2.36	0.42
1:A:327:LEU:CG	1:A:595:ILE:HG12	2.48	0.42
1:A:332:ASN:OD1	1:A:334:LEU:HB2	2.18	0.42
1:A:668:SER:N	2:O:14:GLU:OE1	2.52	0.42
1:B:137:PHE:O	1:B:138:ALA:C	2.62	0.42
1:B:185:ASP:HA	1:B:194:ASN:CG	2.44	0.42
1:B:226:ASP:C	1:B:228:ASN:H	2.26	0.42
1:B:231:LYS:O	1:B:232:GLU:C	2.62	0.42
1:B:234:LEU:CG	1:B:235:THR:H	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:517:VAL:HB	1:B:525:LYS:NZ	2.31	0.42
1:B:684:ASP:C	1:B:686:ASP:N	2.78	0.42
1:B:725:GLY:O	1:B:726:ILE:C	2.62	0.42
1:B:730:ASN:O	1:B:733:GLU:N	2.52	0.42
1:B:765:THR:CA	1:B:769:SER:HB2	2.21	0.42
1:C:220:LEU:HG	1:C:223:LYS:HB3	2.02	0.42
1:C:301:ALA:O	1:C:304:ALA:N	2.46	0.42
1:D:93:VAL:CG1	1:D:94:LEU:N	2.82	0.42
1:D:161:ILE:CG2	1:D:168:GLU:OE2	2.68	0.42
1:D:349:ASN:HD22	1:D:350:VAL:H	1.67	0.42
1:D:389:LYS:HA	1:D:392:THR:HB	2.00	0.42
1:D:749:PHE:O	1:D:753:LYS:HG3	2.20	0.42
1:E:140:ARG:NH1	1:E:141:PHE:HE1	2.18	0.42
1:E:179:LEU:CG	1:E:180:ASP:H	2.31	0.42
1:E:329:ARG:CD	1:E:590:ASP:OD2	2.63	0.42
1:E:335:ALA:HB1	1:E:489:THR:OG1	2.19	0.42
1:E:398:ILE:CD1	1:E:479:LYS:HB3	2.49	0.42
1:E:420:LEU:O	1:E:420:LEU:HD13	2.19	0.42
1:E:447:SER:OG	1:E:448:ASP:N	2.51	0.42
1:E:552:TRP:O	1:E:553:GLN:C	2.62	0.42
1:E:725:GLY:O	1:E:726:ILE:C	2.62	0.42
1:E:747:ASN:HD22	1:E:747:ASN:N	2.17	0.42
1:F:188:LEU:HD12	1:F:191:GLU:HG3	2.02	0.42
1:F:324:THR:CG2	1:F:499:PRO:HA	2.49	0.42
1:F:520:PRO:CG	1:F:521:ASN:N	2.83	0.42
1:F:527:LYS:C	1:F:529:VAL:N	2.76	0.42
1:F:679:TYR:CG	1:F:691:LYS:HB2	2.55	0.42
2:O:89:PHE:HB2	2:O:141:PHE:CD2	2.54	0.42
2:P:50:ASP:HA	2:P:53:ASN:CB	2.33	0.42
2:P:136:VAL:HG23	2:P:136:VAL:O	2.19	0.42
2:Q:59:GLY:O	2:Q:60:ASN:C	2.62	0.42
1:A:97:TYR:HA	1:A:100:LEU:HD12	2.00	0.42
1:A:263:ASP:O	1:A:265:PHE:N	2.52	0.42
1:A:281:GLU:O	1:A:285:LYS:HG2	2.20	0.42
1:A:305:SER:O	1:A:307:LEU:N	2.51	0.42
1:A:329:ARG:CD	1:A:590:ASP:OD2	2.64	0.42
1:A:368:GLN:C	1:A:370:LEU:N	2.76	0.42
1:A:420:LEU:HD13	1:A:420:LEU:O	2.20	0.42
1:A:441:VAL:HG11	1:A:462:ILE:O	2.19	0.42
1:A:629:ASN:O	1:A:630:ARG:C	2.62	0.42
1:B:140:ARG:NH1	1:B:141:PHE:HE1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:PHE:CB	1:B:218:LEU:HB3	2.40	0.42
1:B:360:VAL:CG1	1:B:370:LEU:HD22	2.44	0.42
1:C:448:ASP:O	1:C:449:GLU:C	2.62	0.42
1:C:718:ARG:NH1	1:C:767:GLN:HE21	2.18	0.42
1:D:142:VAL:HG13	1:D:154:ILE:HD11	2.01	0.42
1:D:216:GLU:HG3	1:D:217:LYS:HG2	2.02	0.42
1:D:335:ALA:HA	1:D:338:LEU:HG	2.00	0.42
1:D:348:LEU:HD23	1:D:348:LEU:HA	1.93	0.42
1:D:384:ASN:O	1:D:386:GLU:N	2.52	0.42
1:D:523:LEU:HD22	2:R:127:GLU:HG2	2.02	0.42
1:D:532:LEU:HA	1:D:532:LEU:HD23	1.84	0.42
1:E:77:ASP:OD1	1:E:159:TYR:HE2	2.02	0.42
1:E:522:SER:O	2:S:124:MET:HE2	2.18	0.42
1:E:648:PRO:O	1:E:649:ILE:C	2.58	0.42
1:E:671:ARG:NH1	1:E:671:ARG:HG3	2.34	0.42
1:E:697:ILE:C	1:E:699:GLY:N	2.77	0.42
1:E:717:LYS:O	1:E:718:ARG:C	2.63	0.42
1:E:775:LEU:O	1:E:778:LYS:N	2.53	0.42
1:E:794:GLN:HE21	1:E:794:GLN:HB3	1.60	0.42
1:F:357:TRP:CZ2	1:F:370:LEU:HD23	2.54	0.42
1:F:408:LEU:H	1:F:408:LEU:CD1	2.00	0.42
1:F:504:ILE:H	1:F:504:ILE:CD1	2.33	0.42
1:F:629:ASN:C	1:F:631:SER:N	2.74	0.42
1:F:671:ARG:NH1	1:F:671:ARG:HG3	2.33	0.42
1:F:742:ALA:HB1	1:F:744:GLU:CD	2.44	0.42
2:P:22:ASP:OD2	2:P:22:ASP:C	2.63	0.42
2:R:136:VAL:HG23	2:R:136:VAL:O	2.20	0.42
2:T:5:THR:OG1	2:T:6:GLU:N	2.51	0.42
2:T:22:ASP:OD2	2:T:22:ASP:C	2.63	0.42
1:A:115:LYS:CB	1:A:118:GLN:CG	2.91	0.42
1:A:349:ASN:HB2	1:A:398:ILE:HG13	2.01	0.42
1:A:360:VAL:HA	1:A:403:LEU:HD21	2.01	0.42
1:A:389:LYS:HA	1:A:392:THR:HB	2.00	0.42
1:A:398:ILE:CD1	1:A:479:LYS:HB3	2.50	0.42
1:A:748:TYR:O	1:A:749:PHE:C	2.62	0.42
1:B:324:THR:CG2	1:B:499:PRO:HA	2.48	0.42
1:B:327:LEU:CG	1:B:595:ILE:HG12	2.49	0.42
1:B:332:ASN:OD1	1:B:334:LEU:N	2.45	0.42
1:C:173:ILE:HG13	1:C:242:SER:CB	2.49	0.42
1:D:267:TYR:O	1:D:268:MET:C	2.63	0.42
1:D:480:ASN:HD22	1:D:481:VAL:H	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:654:ILE:O	1:D:654:ILE:HG22	2.18	0.42
1:D:684:ASP:C	1:D:686:ASP:N	2.78	0.42
1:E:170:TYR:C	1:E:172:GLU:N	2.77	0.42
1:E:231:LYS:O	1:E:232:GLU:C	2.62	0.42
1:E:301:ALA:O	1:E:304:ALA:N	2.44	0.42
1:E:687:GLU:O	1:E:690:LYS:N	2.52	0.42
1:E:693:SER:OG	1:E:731:GLU:OE1	2.37	0.42
1:E:719:LYS:O	1:E:722:ILE:N	2.53	0.42
1:E:749:PHE:O	1:E:753:LYS:HG3	2.20	0.42
1:F:173:ILE:HG13	1:F:242:SER:CB	2.49	0.42
1:F:267:TYR:O	1:F:268:MET:C	2.62	0.42
1:F:305:SER:O	1:F:307:LEU:N	2.52	0.42
2:O:117:THR:HG23	2:O:120:GLU:HG3	2.01	0.42
2:Q:9:ILE:HG23	2:Q:69:LEU:HD21	2.02	0.42
2:R:22:ASP:OD2	2:R:22:ASP:C	2.62	0.42
2:S:5:THR:OG1	2:S:6:GLU:N	2.51	0.42
2:S:83:GLU:O	2:S:84:GLU:C	2.61	0.42
2:T:106:ARG:CB	2:T:121:VAL:HG21	2.47	0.42
1:A:128:MET:CE	1:A:235:THR:HB	2.50	0.42
1:A:279:ILE:O	1:A:283:LEU:HB2	2.19	0.42
1:A:348:LEU:O	1:A:349:ASN:C	2.62	0.42
1:A:520:PRO:CG	1:A:521:ASN:H	2.32	0.42
1:A:684:ASP:C	1:A:686:ASP:N	2.78	0.42
1:B:360:VAL:HA	1:B:403:LEU:HD21	2.02	0.42
1:B:552:TRP:O	1:B:553:GLN:C	2.61	0.42
1:B:671:ARG:NH1	1:B:671:ARG:HG3	2.35	0.42
1:B:706:ASN:OD1	1:B:707:SER:N	2.52	0.42
1:C:305:SER:O	1:C:307:LEU:N	2.52	0.42
1:C:520:PRO:CG	1:C:521:ASN:H	2.32	0.42
1:D:140:ARG:NH1	1:D:141:PHE:HE1	2.17	0.42
1:D:179:LEU:O	1:D:182:ILE:HG22	2.20	0.42
1:D:202:ASP:HB2	1:D:208:LEU:CD2	2.49	0.42
1:D:231:LYS:O	1:D:232:GLU:C	2.62	0.42
1:D:441:VAL:HG11	1:D:462:ILE:O	2.18	0.42
1:D:512:GLU:O	1:D:515:LYS:NZ	2.53	0.42
1:D:523:LEU:HD11	2:R:144:MET:HG3	2.00	0.42
1:D:543:ASP:OD1	1:D:544:SER:N	2.53	0.42
1:D:716:LYS:O	1:D:717:LYS:C	2.63	0.42
1:D:765:THR:CA	1:D:769:SER:HB2	2.22	0.42
1:E:144:GLU:O	1:E:144:GLU:HG3	2.18	0.42
1:E:217:LYS:NZ	1:E:233:ASN:HB3	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:226:ASP:C	1:E:228:ASN:H	2.26	0.42
1:E:357:TRP:CZ2	1:E:370:LEU:HD23	2.54	0.42
1:E:389:LYS:HA	1:E:392:THR:HB	2.01	0.42
1:E:519:THR:HG21	1:E:525:LYS:HA	2.01	0.42
1:E:520:PRO:CG	1:E:521:ASN:H	2.32	0.42
1:E:764:LEU:HD23	1:E:764:LEU:HA	1.87	0.42
1:F:86:LEU:C	1:F:88:LYS:N	2.76	0.42
1:F:497:LEU:HD13	1:F:556:MET:HG2	2.02	0.42
1:F:523:LEU:HD11	2:T:144:MET:HG3	2.01	0.42
1:F:775:LEU:O	1:F:778:LYS:N	2.53	0.42
2:O:57:ALA:O	2:O:59:GLY:N	2.53	0.42
2:P:5:THR:OG1	2:P:6:GLU:N	2.52	0.42
2:R:65:PHE:O	2:R:68:PHE:HB3	2.19	0.42
2:R:138:TYR:CE1	2:R:142:VAL:HG22	2.55	0.42
1:A:216:GLU:HG3	1:A:217:LYS:HG2	2.02	0.42
1:A:301:ALA:O	1:A:304:ALA:N	2.45	0.42
1:A:335:ALA:HB1	1:A:489:THR:OG1	2.20	0.42
1:A:622:LYS:HD3	1:A:622:LYS:HA	1.85	0.42
1:A:628:PHE:O	1:A:629:ASN:C	2.63	0.42
1:A:663:PHE:O	1:A:664:ILE:C	2.62	0.42
1:A:718:ARG:NH1	1:A:767:GLN:HE21	2.16	0.42
1:A:794:GLN:O	1:A:795:LYS:C	2.63	0.42
1:B:75:THR:O	1:B:76:LEU:C	2.62	0.42
1:B:202:ASP:HB2	1:B:208:LEU:CD2	2.49	0.42
1:B:333:LYS:O	1:B:334:LEU:C	2.60	0.42
1:B:343:VAL:HG13	1:B:487:PRO:O	2.20	0.42
1:B:469:PHE:CD1	1:B:469:PHE:C	2.98	0.42
1:B:551:ASN:O	1:B:554:LYS:HB3	2.20	0.42
1:C:137:PHE:O	1:C:138:ALA:C	2.61	0.42
1:C:281:GLU:O	1:C:285:LYS:HG2	2.19	0.42
1:C:356:ASP:OD2	1:C:356:ASP:N	2.51	0.42
1:C:368:GLN:HB2	1:C:380:VAL:HG13	2.01	0.42
1:C:420:LEU:O	1:C:420:LEU:HD13	2.20	0.42
1:C:520:PRO:CG	1:C:521:ASN:N	2.83	0.42
1:C:523:LEU:HD11	2:Q:144:MET:HG3	2.01	0.42
1:C:748:TYR:O	1:C:749:PHE:C	2.63	0.42
1:D:70:GLU:HB2	1:D:107:THR:HG22	2.01	0.42
1:D:225:ILE:HG23	1:D:229:PHE:HD2	1.82	0.42
1:D:350:VAL:HG21	1:D:488:LEU:HD12	2.01	0.42
1:D:482:GLU:HA	1:D:482:GLU:OE2	2.19	0.42
1:D:549:LEU:HB2	1:D:553:GLN:HE21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:657:ILE:CD1	1:D:701:LEU:HD23	2.50	0.42
1:E:288:VAL:O	1:E:291:ASP:O	2.38	0.42
1:F:180:ASP:C	1:F:182:ILE:H	2.27	0.42
1:F:181:ILE:HG12	1:F:181:ILE:O	2.19	0.42
1:F:210:PHE:C	1:F:210:PHE:CD1	2.97	0.42
1:F:288:VAL:O	1:F:291:ASP:O	2.38	0.42
1:F:304:ALA:HB3	1:F:604:LEU:HD22	2.01	0.42
1:F:323:ASN:HD22	1:F:598:PRO:CB	2.33	0.42
1:F:389:LYS:HA	1:F:392:THR:HB	2.01	0.42
1:F:401:ILE:CG2	1:F:485:LEU:HB3	2.48	0.42
1:F:622:LYS:HA	1:F:622:LYS:HD3	1.85	0.42
2:O:24:ASP:CG	2:O:26:THR:HG23	2.45	0.42
2:P:18:LEU:HA	2:P:18:LEU:HD23	1.75	0.42
2:R:117:THR:HG23	2:R:120:GLU:CG	2.49	0.42
1:A:137:PHE:O	1:A:138:ALA:C	2.60	0.42
1:A:172:GLU:HG3	1:A:245:PHE:CE1	2.55	0.42
1:A:185:ASP:HA	1:A:194:ASN:CG	2.45	0.42
1:A:653:LYS:C	1:A:655:ASN:H	2.28	0.42
1:B:323:ASN:HD22	1:B:598:PRO:CB	2.33	0.42
1:B:357:TRP:CZ2	1:B:370:LEU:HD23	2.54	0.42
1:B:368:GLN:C	1:B:370:LEU:N	2.76	0.42
1:B:448:ASP:O	1:B:449:GLU:C	2.63	0.42
1:B:501:LEU:HD13	2:P:108:VAL:HG13	2.02	0.42
1:B:513:TRP:HZ2	2:P:114:GLU:HB2	1.82	0.42
1:B:654:ILE:O	1:B:654:ILE:HG22	2.20	0.42
1:C:350:VAL:HG21	1:C:488:LEU:HD12	2.01	0.42
1:C:719:LYS:O	1:C:722:ILE:N	2.52	0.42
1:C:741:ILE:O	1:C:741:ILE:HG13	2.20	0.42
1:D:105:TYR:HE1	1:D:151:LYS:NZ	2.12	0.42
1:D:279:ILE:O	1:D:283:LEU:HB2	2.19	0.42
1:D:435:LEU:HG	1:D:446:ILE:CG2	2.48	0.42
1:D:447:SER:OG	1:D:448:ASP:N	2.52	0.42
1:D:469:PHE:CD1	1:D:469:PHE:C	2.98	0.42
1:E:173:ILE:CG2	1:E:174:GLY:N	2.82	0.42
1:E:202:ASP:HB2	1:E:208:LEU:CD2	2.50	0.42
1:E:345:THR:CG2	1:E:491:ASP:HA	2.50	0.42
1:E:368:GLN:HB2	1:E:380:VAL:HG13	2.02	0.42
1:E:508:ILE:HG12	1:E:536:TYR:CD2	2.55	0.42
1:F:140:ARG:NH1	1:F:141:PHE:HE1	2.17	0.42
1:F:144:GLU:O	1:F:144:GLU:HG3	2.19	0.42
1:F:265:PHE:C	1:F:267:TYR:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:335:ALA:HB1	1:F:489:THR:OG1	2.19	0.42
1:F:348:LEU:O	1:F:349:ASN:C	2.63	0.42
1:F:609:GLU:N	1:F:609:GLU:CD	2.78	0.42
1:F:741:ILE:O	1:F:741:ILE:HG13	2.19	0.42
2:O:36:MET:HE3	2:O:43:PRO:HG3	2.02	0.42
2:P:57:ALA:O	2:P:59:GLY:N	2.53	0.42
2:S:41:GLN:C	2:S:43:PRO:CD	2.79	0.42
1:A:77:ASP:OD1	1:A:159:TYR:HE2	2.03	0.42
1:A:96:ILE:HG22	1:A:100:LEU:CD1	2.49	0.42
1:A:112:VAL:C	1:A:114:HIS:N	2.76	0.42
1:A:176:GLY:O	1:A:178:SER:N	2.53	0.42
1:A:180:ASP:C	1:A:182:ILE:H	2.28	0.42
1:A:270:LYS:HA	1:A:273:LYS:CG	2.50	0.42
1:A:533:LEU:HD23	2:O:112:LEU:HD21	2.02	0.42
1:A:765:THR:CA	1:A:769:SER:HB2	2.21	0.42
1:B:90:PRO:O	1:B:91:LYS:C	2.63	0.42
1:B:220:LEU:HG	1:B:223:LYS:HB3	2.02	0.42
1:B:326:ILE:C	1:B:327:LEU:HD12	2.45	0.42
1:B:719:LYS:O	1:B:722:ILE:N	2.53	0.42
1:C:96:ILE:O	1:C:100:LEU:HD12	2.20	0.42
1:C:97:TYR:CE1	1:C:178:SER:CB	2.93	0.42
1:C:324:THR:CG2	1:C:499:PRO:HA	2.49	0.42
1:C:365:PRO:O	1:C:366:PHE:C	2.60	0.42
1:C:527:LYS:HB3	1:C:527:LYS:HE2	1.84	0.42
1:D:181:ILE:O	1:D:181:ILE:HG12	2.20	0.42
1:D:252:ASP:CG	1:D:253:HIS:N	2.77	0.42
1:D:636:ALA:HA	1:D:637:PRO:HD3	1.82	0.42
1:E:197:LYS:NZ	1:E:197:LYS:CB	2.83	0.42
1:E:355:SER:HB2	1:E:371:SER:CA	2.43	0.42
1:E:384:ASN:O	1:E:386:GLU:N	2.53	0.42
1:E:480:ASN:ND2	1:E:483:GLY:CA	2.81	0.42
1:E:480:ASN:HD22	1:E:481:VAL:H	1.68	0.42
1:E:540:ARG:HH22	1:E:630:ARG:HE	1.68	0.42
1:E:657:ILE:CD1	1:E:701:LEU:HD23	2.50	0.42
1:F:184:LYS:HD2	1:F:191:GLU:HB2	2.02	0.42
1:F:220:LEU:HG	1:F:223:LYS:HB3	2.02	0.42
1:F:665:LYS:O	1:F:668:SER:HB3	2.20	0.42
2:O:65:PHE:CE2	2:O:69:LEU:HG	2.55	0.42
2:P:59:GLY:O	2:P:60:ASN:C	2.63	0.42
2:P:86:ARG:O	2:P:86:ARG:HG2	2.19	0.42
2:Q:115:LYS:NZ	2:Q:115:LYS:CA	2.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:59:GLY:O	2:S:60:ASN:C	2.62	0.42
2:S:89:PHE:HB2	2:S:141:PHE:CE2	2.55	0.42
2:T:138:TYR:CE1	2:T:142:VAL:HG22	2.55	0.42
1:A:127:SER:OG	1:A:135:VAL:HG21	2.20	0.41
1:A:183:SER:C	1:A:187:SER:CB	2.60	0.41
1:A:447:SER:OG	1:A:448:ASP:N	2.52	0.41
1:A:520:PRO:CG	1:A:521:ASN:N	2.83	0.41
1:A:746:LYS:HD2	1:A:747:ASN:HD22	1.84	0.41
1:B:257:LEU:O	1:B:261:ALA:O	2.38	0.41
1:B:271:LEU:HA	1:B:275:GLY:HA3	2.02	0.41
1:B:345:THR:HG21	1:B:491:ASP:HA	2.02	0.41
1:B:549:LEU:HB2	1:B:553:GLN:HE21	1.85	0.41
1:B:648:PRO:O	1:B:649:ILE:C	2.58	0.41
1:C:441:VAL:HG11	1:C:462:ILE:O	2.19	0.41
1:C:606:LYS:HB2	1:C:610:MET:CE	2.50	0.41
1:C:679:TYR:CG	1:C:691:LYS:HB2	2.55	0.41
1:C:742:ALA:HB1	1:C:744:GLU:CD	2.45	0.41
1:D:90:PRO:HG3	1:D:249:PHE:CZ	2.54	0.41
1:D:170:TYR:C	1:D:172:GLU:N	2.77	0.41
1:D:217:LYS:CB	1:D:236:GLU:CD	2.93	0.41
1:D:376:GLN:HB3	1:D:379:ALA:HB3	2.01	0.41
1:D:456:LYS:HD3	1:D:471:TRP:H	1.84	0.41
1:D:530:THR:O	1:D:534:ILE:HG13	2.19	0.41
1:E:324:THR:CG2	1:E:499:PRO:HA	2.48	0.41
1:E:515:LYS:HB3	1:E:515:LYS:HZ2	1.82	0.41
1:E:653:LYS:C	1:E:655:ASN:H	2.28	0.41
1:E:656:THR:O	1:E:755:ARG:HD2	2.20	0.41
1:E:794:GLN:O	1:E:795:LYS:C	2.63	0.41
1:F:96:ILE:O	1:F:100:LEU:HD12	2.19	0.41
1:F:111:LEU:HD23	1:F:155:ASN:ND2	2.33	0.41
1:F:179:LEU:O	1:F:182:ILE:HG22	2.20	0.41
1:F:252:ASP:O	1:F:254:ARG:HD2	2.19	0.41
1:F:343:VAL:HG13	1:F:487:PRO:O	2.20	0.41
2:P:36:MET:HE3	2:P:43:PRO:HG3	2.02	0.41
2:S:65:PHE:CE2	2:S:69:LEU:HG	2.55	0.41
1:A:252:ASP:CG	1:A:253:HIS:N	2.79	0.41
1:A:409:ARG:O	1:A:413:LEU:HG	2.20	0.41
1:A:512:GLU:O	1:A:515:LYS:NZ	2.53	0.41
1:B:74:GLU:N	1:B:74:GLU:CD	2.78	0.41
1:B:229:PHE:O	1:B:231:LYS:N	2.54	0.41
1:B:597:ASN:C	1:B:599:GLU:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:639:ASN:ND2	1:B:639:ASN:N	2.49	0.41
1:B:718:ARG:NH1	1:B:767:GLN:HE21	2.16	0.41
1:B:794:GLN:O	1:B:795:LYS:C	2.63	0.41
1:C:105:TYR:HE1	1:C:151:LYS:NZ	2.14	0.41
1:C:171:TYR:CD1	1:C:175:LYS:NZ	2.85	0.41
1:C:223:LYS:HD3	1:C:223:LYS:C	2.45	0.41
1:C:343:VAL:HG13	1:C:487:PRO:O	2.20	0.41
1:C:389:LYS:HA	1:C:392:THR:HB	2.01	0.41
1:C:551:ASN:O	1:C:554:LYS:HB3	2.20	0.41
1:C:697:ILE:C	1:C:699:GLY:N	2.78	0.41
1:C:794:GLN:O	1:C:795:LYS:C	2.64	0.41
1:D:180:ASP:C	1:D:182:ILE:H	2.28	0.41
1:D:514:ASP:C	1:D:516:VAL:N	2.79	0.41
1:E:279:ILE:O	1:E:283:LEU:HB2	2.20	0.41
1:E:408:LEU:H	1:E:408:LEU:CD1	2.02	0.41
1:E:482:GLU:HA	1:E:482:GLU:OE2	2.20	0.41
1:F:154:ILE:HG21	1:F:171:TYR:CD2	2.55	0.41
1:F:185:ASP:HA	1:F:194:ASN:CG	2.45	0.41
1:F:252:ASP:CG	1:F:253:HIS:N	2.78	0.41
1:F:523:LEU:HD22	2:T:127:GLU:HG2	2.01	0.41
1:F:653:LYS:C	1:F:655:ASN:H	2.28	0.41
1:F:684:ASP:C	1:F:686:ASP:N	2.77	0.41
2:Q:86:ARG:O	2:Q:86:ARG:HG2	2.20	0.41
2:Q:138:TYR:CE1	2:Q:142:VAL:HG22	2.55	0.41
2:R:56:ASP:C	2:R:58:ASP:N	2.79	0.41
2:R:57:ALA:O	2:R:59:GLY:N	2.54	0.41
2:S:63:ILE:CG2	2:S:67:GLU:CB	2.98	0.41
2:T:24:ASP:CG	2:T:26:THR:HG23	2.45	0.41
1:A:181:ILE:O	1:A:181:ILE:HG12	2.20	0.41
1:A:231:LYS:O	1:A:232:GLU:C	2.62	0.41
1:A:349:ASN:HD22	1:A:350:VAL:H	1.68	0.41
1:A:504:ILE:N	1:A:504:ILE:CD1	2.84	0.41
1:A:527:LYS:C	1:A:529:VAL:N	2.76	0.41
1:B:223:LYS:NZ	1:B:228:ASN:HB2	2.35	0.41
1:B:252:ASP:CG	1:B:253:HIS:N	2.78	0.41
1:B:288:VAL:O	1:B:291:ASP:O	2.38	0.41
1:B:350:VAL:HG12	1:B:351:HIS:N	2.34	0.41
1:B:512:GLU:O	1:B:515:LYS:NZ	2.53	0.41
1:C:121:SER:HB2	1:C:122:GLU:OE2	2.19	0.41
1:C:180:ASP:C	1:C:182:ILE:H	2.27	0.41
1:C:197:LYS:NZ	1:C:197:LYS:CB	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:231:LYS:O	1:C:232:GLU:C	2.62	0.41
1:C:368:GLN:HG3	1:C:383:GLY:HA3	2.03	0.41
1:D:74:GLU:CD	1:D:74:GLU:N	2.78	0.41
1:D:270:LYS:HA	1:D:273:LYS:CG	2.50	0.41
1:D:350:VAL:HG12	1:D:351:HIS:N	2.35	0.41
1:D:401:ILE:CG2	1:D:485:LEU:HB3	2.50	0.41
1:D:508:ILE:HG12	1:D:536:TYR:CD2	2.55	0.41
1:D:533:LEU:HD23	2:R:112:LEU:HD21	2.02	0.41
1:D:540:ARG:HH22	1:D:630:ARG:HE	1.67	0.41
1:D:552:TRP:O	1:D:553:GLN:C	2.63	0.41
1:D:663:PHE:O	1:D:664:ILE:C	2.64	0.41
1:E:111:LEU:HD23	1:E:155:ASN:ND2	2.34	0.41
1:E:188:LEU:H	1:E:188:LEU:HG	1.73	0.41
1:E:456:LYS:HD3	1:E:471:TRP:H	1.84	0.41
1:E:527:LYS:C	1:E:529:VAL:N	2.77	0.41
1:F:71:PHE:CD1	1:F:108:ASP:OD1	2.73	0.41
1:F:635:ILE:HD12	1:F:635:ILE:N	2.36	0.41
1:F:748:TYR:O	1:F:751:TYR:N	2.53	0.41
1:F:749:PHE:O	1:F:753:LYS:HG3	2.20	0.41
2:P:78:ASP:C	2:P:80:ASP:N	2.78	0.41
2:Q:44:THR:OG1	2:Q:47:GLU:HG3	2.20	0.41
2:R:117:THR:HG23	2:R:120:GLU:HG3	2.02	0.41
2:S:9:ILE:HG23	2:S:69:LEU:HD21	2.02	0.41
2:S:117:THR:HG23	2:S:120:GLU:HG3	2.01	0.41
2:T:70:THR:O	2:T:72:MET:N	2.54	0.41
1:A:76:LEU:O	1:A:80:GLN:N	2.47	0.41
1:A:83:GLN:O	1:A:84:ASP:C	2.62	0.41
1:A:106:PHE:CZ	1:A:171:TYR:OH	2.66	0.41
1:A:188:LEU:H	1:A:188:LEU:HG	1.73	0.41
1:A:191:GLU:C	1:A:193:LEU:N	2.77	0.41
1:A:263:ASP:C	1:A:265:PHE:N	2.76	0.41
1:A:265:PHE:C	1:A:267:TYR:N	2.79	0.41
1:A:469:PHE:CD1	1:A:469:PHE:C	2.98	0.41
1:A:480:ASN:HD22	1:A:481:VAL:H	1.67	0.41
1:A:775:LEU:O	1:A:776:LEU:C	2.63	0.41
1:B:115:LYS:O	1:B:117:LEU:N	2.53	0.41
1:B:368:GLN:HG3	1:B:383:GLY:HA3	2.03	0.41
1:B:532:LEU:HA	1:B:532:LEU:HD23	1.83	0.41
1:B:635:ILE:HD12	1:B:635:ILE:N	2.33	0.41
1:B:663:PHE:CD1	1:B:752:LEU:HD11	2.55	0.41
1:B:687:GLU:O	1:B:690:LYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:VAL:CG2	1:C:289:GLU:H	2.22	0.41
1:C:292:ARG:NE	1:C:617:LYS:HE3	2.35	0.41
1:C:350:VAL:HG12	1:C:351:HIS:N	2.35	0.41
1:C:550:SER:H	1:C:553:GLN:NE2	2.16	0.41
1:C:628:PHE:O	1:C:629:ASN:C	2.63	0.41
1:C:663:PHE:CD1	1:C:752:LEU:HD11	2.56	0.41
1:C:665:LYS:O	1:C:668:SER:HB3	2.20	0.41
1:C:729:TYR:O	1:C:732:ILE:N	2.51	0.41
1:C:749:PHE:O	1:C:753:LYS:HG3	2.21	0.41
1:D:220:LEU:HG	1:D:223:LYS:HB3	2.02	0.41
1:D:292:ARG:NE	1:D:617:LYS:HE3	2.36	0.41
1:D:520:PRO:CG	1:D:521:ASN:H	2.33	0.41
1:D:748:TYR:O	1:D:749:PHE:C	2.63	0.41
1:D:794:GLN:O	1:D:795:LYS:C	2.63	0.41
1:E:732:ILE:C	1:E:734:ASN:N	2.78	0.41
1:E:741:ILE:O	1:E:741:ILE:HG13	2.21	0.41
1:F:87:LYS:HB3	1:F:87:LYS:HE2	1.81	0.41
1:F:128:MET:CE	1:F:235:THR:HB	2.49	0.41
1:F:202:ASP:HB2	1:F:208:LEU:CD2	2.51	0.41
1:F:301:ALA:O	1:F:304:ALA:N	2.43	0.41
1:F:350:VAL:HG12	1:F:351:HIS:N	2.35	0.41
1:F:397:GLU:O	1:F:398:ILE:HD13	2.21	0.41
1:F:397:GLU:O	1:F:480:ASN:N	2.52	0.41
1:F:420:LEU:HD13	1:F:420:LEU:O	2.20	0.41
1:F:690:LYS:O	1:F:693:SER:N	2.54	0.41
2:P:62:THR:C	2:P:63:ILE:HG13	2.43	0.41
2:Q:22:ASP:OD2	2:Q:22:ASP:C	2.62	0.41
2:R:65:PHE:CE2	2:R:69:LEU:HG	2.55	0.41
1:A:142:VAL:HG13	1:A:154:ILE:HD12	2.03	0.41
1:A:179:LEU:O	1:A:182:ILE:HG22	2.20	0.41
1:A:202:ASP:HB2	1:A:208:LEU:CD2	2.50	0.41
1:A:217:LYS:CB	1:A:236:GLU:CD	2.94	0.41
1:A:368:GLN:HB2	1:A:380:VAL:HG13	2.02	0.41
1:B:90:PRO:HG3	1:B:249:PHE:CZ	2.55	0.41
1:B:365:PRO:C	1:B:367:ASP:N	2.75	0.41
1:B:497:LEU:HD13	1:B:556:MET:HG2	2.02	0.41
1:B:520:PRO:CG	1:B:521:ASN:H	2.33	0.41
1:C:74:GLU:CD	1:C:74:GLU:N	2.78	0.41
1:C:90:PRO:HG3	1:C:249:PHE:CZ	2.55	0.41
1:C:469:PHE:CD1	1:C:469:PHE:C	2.98	0.41
1:C:508:ILE:HG21	1:C:513:TRP:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:556:MET:HE2	1:C:556:MET:HB2	1.71	0.41
1:C:636:ALA:HA	1:C:637:PRO:HD3	1.83	0.41
1:D:90:PRO:HG2	1:D:93:VAL:CG1	2.51	0.41
1:D:210:PHE:C	1:D:212:GLN:H	2.29	0.41
1:D:409:ARG:O	1:D:413:LEU:HG	2.20	0.41
1:D:523:LEU:HD11	2:R:144:MET:HG2	2.03	0.41
1:D:615:ILE:CD1	1:D:645:TRP:HH2	2.29	0.41
1:E:74:GLU:HB2	1:E:78:LYS:HB3	2.03	0.41
1:E:77:ASP:OD1	1:E:159:TYR:CE2	2.73	0.41
1:E:217:LYS:CB	1:E:236:GLU:CD	2.94	0.41
1:E:217:LYS:HG3	1:E:236:GLU:HG3	2.02	0.41
1:E:403:LEU:HG	1:E:405:LEU:CD1	2.51	0.41
1:E:523:LEU:HD11	2:S:144:MET:HG2	2.02	0.41
1:F:176:GLY:O	1:F:178:SER:N	2.53	0.41
1:F:180:ASP:C	1:F:182:ILE:N	2.78	0.41
1:F:226:ASP:C	1:F:228:ASN:N	2.76	0.41
1:F:708:ALA:O	1:F:709:ASN:C	2.64	0.41
1:F:746:LYS:HD2	1:F:747:ASN:HD22	1.84	0.41
1:F:775:LEU:C	1:F:777:TYR:N	2.78	0.41
2:O:59:GLY:O	2:O:60:ASN:C	2.63	0.41
2:O:78:ASP:C	2:O:80:ASP:N	2.78	0.41
2:P:138:TYR:O	2:P:141:PHE:HB3	2.20	0.41
2:R:102:ALA:O	2:R:103:ALA:C	2.64	0.41
2:S:136:VAL:HG23	2:S:136:VAL:O	2.19	0.41
2:T:39:LEU:HA	2:T:39:LEU:HD12	1.82	0.41
2:T:83:GLU:O	2:T:84:GLU:C	2.63	0.41
1:A:74:GLU:CD	1:A:74:GLU:N	2.78	0.41
1:A:180:ASP:C	1:A:183:SER:H	2.29	0.41
1:A:217:LYS:HG3	1:A:236:GLU:HG3	2.03	0.41
1:A:345:THR:CG2	1:A:491:ASP:HA	2.51	0.41
1:A:671:ARG:NH1	1:A:671:ARG:HG3	2.35	0.41
1:B:447:SER:OG	1:B:448:ASP:N	2.52	0.41
1:B:456:LYS:HD3	1:B:471:TRP:H	1.84	0.41
1:C:77:ASP:OD1	1:C:159:TYR:CE2	2.74	0.41
1:C:131:ARG:CB	1:C:243:LEU:HD21	2.50	0.41
1:C:180:ASP:C	1:C:182:ILE:N	2.78	0.41
1:C:308:VAL:O	1:C:311:HIS:N	2.46	0.41
1:C:726:ILE:O	1:C:727:GLN:C	2.63	0.41
1:D:121:SER:HB2	1:D:122:GLU:OE2	2.20	0.41
1:D:420:LEU:CD1	1:D:436:GLU:HB3	2.51	0.41
1:D:520:PRO:CG	1:D:521:ASN:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:535:LYS:HD3	1:D:536:TYR:CE2	2.55	0.41
1:D:628:PHE:O	1:D:629:ASN:C	2.64	0.41
1:D:715:GLU:CG	1:D:767:GLN:HE21	2.33	0.41
1:D:725:GLY:O	1:D:726:ILE:C	2.64	0.41
1:E:197:LYS:HD3	1:E:263:ASP:CB	2.51	0.41
1:E:409:ARG:O	1:E:413:LEU:HG	2.20	0.41
1:E:742:ALA:HB1	1:E:744:GLU:CD	2.46	0.41
1:E:775:LEU:C	1:E:777:TYR:N	2.78	0.41
1:F:74:GLU:CD	1:F:74:GLU:N	2.78	0.41
1:F:170:TYR:C	1:F:172:GLU:N	2.78	0.41
1:F:231:LYS:O	1:F:232:GLU:C	2.62	0.41
1:F:238:GLN:C	1:F:240:ALA:N	2.78	0.41
1:F:360:VAL:HA	1:F:403:LEU:HD21	2.02	0.41
2:R:138:TYR:O	2:R:141:PHE:HB3	2.21	0.41
2:T:138:TYR:O	2:T:141:PHE:HB3	2.21	0.41
1:A:93:VAL:HG13	1:A:94:LEU:N	2.35	0.41
1:A:111:LEU:HD23	1:A:155:ASN:ND2	2.33	0.41
1:A:451:ASN:O	1:A:452:GLU:C	2.61	0.41
1:A:456:LYS:HD3	1:A:471:TRP:H	1.85	0.41
1:A:478:ALA:CB	1:A:486:LYS:C	2.93	0.41
1:A:495:PHE:O	1:A:496:ALA:HB2	2.20	0.41
1:B:66:LEU:HD23	1:B:94:LEU:HB3	2.01	0.41
1:B:128:MET:CE	1:B:235:THR:HB	2.49	0.41
1:B:216:GLU:HG3	1:B:217:LYS:HG2	2.03	0.41
1:B:420:LEU:CD1	1:B:436:GLU:HB3	2.51	0.41
1:B:481:VAL:O	1:B:482:GLU:C	2.63	0.41
1:C:216:GLU:HG3	1:C:217:LYS:HG2	2.02	0.41
1:C:252:ASP:CG	1:C:253:HIS:N	2.79	0.41
1:C:271:LEU:HA	1:C:275:GLY:HA3	2.02	0.41
1:C:279:ILE:O	1:C:283:LEU:HB2	2.20	0.41
1:C:748:TYR:O	1:C:751:TYR:N	2.53	0.41
1:D:131:ARG:CB	1:D:243:LEU:HD21	2.51	0.41
1:D:144:GLU:O	1:D:144:GLU:HG3	2.19	0.41
1:D:327:LEU:CD2	1:D:595:ILE:HG12	2.51	0.41
1:D:481:VAL:O	1:D:482:GLU:C	2.62	0.41
1:E:74:GLU:CD	1:E:74:GLU:N	2.78	0.41
1:E:267:TYR:O	1:E:268:MET:C	2.63	0.41
1:E:520:PRO:CG	1:E:521:ASN:N	2.83	0.41
1:E:719:LYS:O	1:E:720:ILE:C	2.62	0.41
1:F:127:SER:OG	1:F:135:VAL:HG21	2.21	0.41
1:F:267:TYR:C	1:F:269:ASN:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:384:ASN:O	1:F:386:GLU:N	2.53	0.41
1:F:412:GLU:C	1:F:414:LYS:N	2.77	0.41
1:F:469:PHE:CD1	1:F:469:PHE:C	2.98	0.41
1:F:552:TRP:O	1:F:553:GLN:C	2.62	0.41
2:Q:24:ASP:CG	2:Q:26:THR:HG23	2.46	0.41
2:Q:36:MET:HE3	2:Q:43:PRO:HG3	2.03	0.41
2:R:24:ASP:CG	2:R:26:THR:HG23	2.46	0.41
2:R:86:ARG:O	2:R:86:ARG:HG2	2.21	0.41
2:S:48:LEU:HD23	2:S:51:MET:HE2	1.99	0.41
2:S:78:ASP:C	2:S:80:ASP:N	2.78	0.41
2:T:36:MET:O	2:T:37:ARG:C	2.61	0.41
2:T:136:VAL:HG23	2:T:136:VAL:O	2.21	0.41
1:A:582:ASP:C	1:A:584:GLU:N	2.78	0.41
1:A:742:ALA:HB1	1:A:744:GLU:CD	2.44	0.41
1:B:89:ILE:H	1:B:89:ILE:HG13	1.58	0.41
1:B:110:ASP:OD1	1:B:110:ASP:N	2.53	0.41
1:B:217:LYS:CB	1:B:236:GLU:CD	2.93	0.41
1:B:217:LYS:HG3	1:B:236:GLU:HG3	2.03	0.41
1:B:225:ILE:HG12	1:B:229:PHE:HD2	1.81	0.41
1:B:409:ARG:O	1:B:413:LEU:HG	2.20	0.41
1:B:747:ASN:HD22	1:B:747:ASN:N	2.18	0.41
1:C:134:LYS:O	1:C:135:VAL:CG1	2.63	0.41
1:C:279:ILE:HD13	1:C:279:ILE:N	2.36	0.41
1:C:408:LEU:H	1:C:408:LEU:CD1	2.03	0.41
1:C:433:TYR:N	1:C:433:TYR:CD1	2.89	0.41
1:C:752:LEU:HD23	1:C:752:LEU:HA	1.77	0.41
1:D:343:VAL:HG13	1:D:487:PRO:O	2.21	0.41
1:D:368:GLN:HB2	1:D:380:VAL:HG13	2.02	0.41
1:D:718:ARG:NH1	1:D:767:GLN:HE21	2.18	0.41
1:E:83:GLN:O	1:E:84:ASP:C	2.63	0.41
1:E:90:PRO:O	1:E:93:VAL:N	2.54	0.41
1:E:128:MET:CE	1:E:235:THR:HB	2.49	0.41
1:E:173:ILE:HG13	1:E:242:SER:CB	2.49	0.41
1:E:469:PHE:CD1	1:E:469:PHE:C	2.98	0.41
1:E:514:ASP:C	1:E:516:VAL:N	2.78	0.41
1:E:628:PHE:O	1:E:629:ASN:C	2.63	0.41
1:E:663:PHE:CD1	1:E:752:LEU:HD11	2.55	0.41
1:F:90:PRO:O	1:F:91:LYS:C	2.63	0.41
1:F:214:PHE:CB	1:F:218:LEU:HB3	2.40	0.41
1:F:356:ASP:OD2	1:F:356:ASP:N	2.52	0.41
1:F:606:LYS:HB2	1:F:610:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:138:TYR:CE1	2:O:142:VAL:HG22	2.56	0.41
2:Q:97:ASN:HD22	2:Q:99:TYR:H	1.66	0.41
2:Q:104:GLU:O	2:Q:105:LEU:C	2.62	0.41
2:Q:138:TYR:O	2:Q:141:PHE:HB3	2.21	0.41
2:R:48:LEU:HD23	2:R:51:MET:HE2	1.99	0.41
1:A:89:ILE:H	1:A:89:ILE:HG13	1.55	0.41
1:A:111:LEU:CD2	1:A:155:ASN:HD21	2.33	0.41
1:A:140:ARG:NH1	1:A:141:PHE:CE1	2.89	0.41
1:A:144:GLU:O	1:A:144:GLU:HG3	2.20	0.41
1:A:188:LEU:HD12	1:A:191:GLU:HG3	2.02	0.41
1:A:238:GLN:C	1:A:240:ALA:N	2.78	0.41
1:A:257:LEU:O	1:A:261:ALA:O	2.39	0.41
1:A:293:ILE:H	1:A:293:ILE:HG12	1.44	0.41
1:A:307:LEU:N	1:A:307:LEU:HD12	2.36	0.41
1:A:345:THR:HG21	1:A:491:ASP:HA	2.03	0.41
1:A:435:LEU:HG	1:A:446:ILE:CG2	2.47	0.41
1:A:514:ASP:C	1:A:516:VAL:N	2.79	0.41
1:A:635:ILE:HD12	1:A:635:ILE:N	2.33	0.41
1:A:749:PHE:O	1:A:753:LYS:HG3	2.21	0.41
1:A:760:VAL:O	1:A:761:GLN:C	2.64	0.41
1:B:115:LYS:CB	1:B:118:GLN:CG	2.93	0.41
1:B:172:GLU:HG3	1:B:245:PHE:CE1	2.56	0.41
1:B:173:ILE:CG2	1:B:174:GLY:N	2.83	0.41
1:B:297:LYS:NZ	1:B:297:LYS:HB3	2.36	0.41
1:B:320:ARG:NH1	1:B:599:GLU:O	2.54	0.41
1:B:697:ILE:C	1:B:699:GLY:N	2.78	0.41
1:B:794:GLN:HE21	1:B:794:GLN:HB3	1.61	0.41
1:C:89:ILE:CG2	1:C:90:PRO:HD2	2.51	0.41
1:C:136:PRO:O	1:C:137:PHE:C	2.64	0.41
1:C:223:LYS:NZ	1:C:228:ASN:HB2	2.36	0.41
1:C:265:PHE:C	1:C:267:TYR:N	2.79	0.41
1:C:398:ILE:CD1	1:C:479:LYS:HB3	2.51	0.41
1:C:530:THR:O	1:C:534:ILE:HG13	2.20	0.41
1:C:684:ASP:C	1:C:686:ASP:N	2.78	0.41
1:C:715:GLU:CG	1:C:767:GLN:HE21	2.34	0.41
1:C:735:VAL:C	1:C:737:LYS:N	2.79	0.41
1:C:775:LEU:O	1:C:776:LEU:C	2.62	0.41
1:D:223:LYS:NZ	1:D:228:ASN:HB2	2.36	0.41
1:D:513:TRP:HZ2	2:R:114:GLU:HB2	1.84	0.41
1:D:556:MET:HE2	1:D:556:MET:HB2	1.75	0.41
1:D:597:ASN:C	1:D:599:GLU:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:717:LYS:O	1:D:718:ARG:C	2.62	0.41
1:E:90:PRO:HG3	1:E:249:PHE:CZ	2.56	0.41
1:E:127:SER:OG	1:E:135:VAL:HG21	2.21	0.41
1:E:257:LEU:O	1:E:261:ALA:O	2.37	0.41
1:E:292:ARG:NE	1:E:617:LYS:HE3	2.35	0.41
1:E:305:SER:O	1:E:307:LEU:N	2.52	0.41
1:E:348:LEU:O	1:E:349:ASN:C	2.63	0.41
1:E:420:LEU:HD22	1:E:421:LYS:N	2.36	0.41
1:E:517:VAL:HB	1:E:525:LYS:NZ	2.31	0.41
1:F:74:GLU:HB2	1:F:78:LYS:HB3	2.03	0.41
1:F:112:VAL:O	1:F:114:HIS:N	2.51	0.41
1:F:142:VAL:HG13	1:F:154:ILE:HD11	2.01	0.41
1:F:216:GLU:HG3	1:F:217:LYS:HG2	2.03	0.41
1:F:223:LYS:NZ	1:F:228:ASN:HB2	2.36	0.41
1:F:279:ILE:CD1	1:F:279:ILE:H	2.33	0.41
1:F:512:GLU:O	1:F:515:LYS:NZ	2.53	0.41
1:F:658:PRO:HB3	1:F:755:ARG:HH12	1.85	0.41
2:O:97:ASN:HD22	2:O:99:TYR:H	1.66	0.41
2:P:33:GLY:O	2:P:35:VAL:N	2.54	0.41
2:Q:18:LEU:HB3	2:Q:19:PHE:CE1	2.56	0.41
2:Q:70:THR:O	2:Q:72:MET:N	2.54	0.41
2:R:70:THR:O	2:R:72:MET:N	2.54	0.41
2:S:29:THR:O	2:S:32:LEU:N	2.53	0.41
2:S:105:LEU:HD23	2:S:121:VAL:HG13	2.03	0.41
2:S:125:ILE:O	2:S:126:ARG:C	2.63	0.41
2:S:138:TYR:O	2:S:141:PHE:HB3	2.21	0.41
2:T:18:LEU:HB3	2:T:19:PHE:CE1	2.56	0.41
1:A:71:PHE:C	1:A:73:ASN:H	2.29	0.41
1:A:223:LYS:NZ	1:A:228:ASN:HB2	2.36	0.41
1:A:420:LEU:CD1	1:A:436:GLU:HB3	2.51	0.41
1:A:663:PHE:CD1	1:A:752:LEU:HD11	2.56	0.41
1:B:142:VAL:HG13	1:B:154:ILE:HD11	2.02	0.41
1:B:267:TYR:C	1:B:269:ASN:N	2.76	0.41
1:B:508:ILE:HG12	1:B:536:TYR:CD2	2.56	0.41
1:B:582:ASP:O	1:B:584:GLU:N	2.47	0.41
1:B:628:PHE:O	1:B:629:ASN:C	2.64	0.41
1:C:210:PHE:C	1:C:212:GLN:H	2.29	0.41
1:C:530:THR:O	1:C:534:ILE:N	2.49	0.41
1:C:671:ARG:HD2	2:Q:14:GLU:CD	2.46	0.41
1:C:775:LEU:C	1:C:777:TYR:N	2.79	0.41
1:D:86:LEU:C	1:D:88:LYS:N	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:ASP:C	1:D:182:ILE:N	2.78	0.41
1:D:305:SER:O	1:D:307:LEU:N	2.52	0.41
1:D:307:LEU:N	1:D:307:LEU:HD12	2.36	0.41
1:D:561:ASN:HA	1:D:564:VAL:HG22	2.02	0.41
1:D:665:LYS:O	1:D:668:SER:HB3	2.21	0.41
1:D:671:ARG:NH1	1:D:671:ARG:HG3	2.35	0.41
1:E:180:ASP:C	1:E:182:ILE:N	2.78	0.41
1:E:343:VAL:HG12	1:E:344:ALA:O	2.20	0.41
1:E:793:PHE:HA	1:E:796:ILE:HG13	2.03	0.41
1:F:102:GLY:O	1:F:103:GLU:HG3	2.21	0.41
1:F:172:GLU:HG3	1:F:245:PHE:CE1	2.56	0.41
1:F:292:ARG:NE	1:F:617:LYS:HE3	2.35	0.41
1:F:533:LEU:HD23	2:T:112:LEU:HD21	2.03	0.41
1:F:663:PHE:CD1	1:F:752:LEU:HD11	2.56	0.41
2:O:136:VAL:HG23	2:O:136:VAL:O	2.21	0.41
2:P:65:PHE:CE2	2:P:69:LEU:HG	2.56	0.41
2:P:72:MET:C	2:P:74:ARG:N	2.66	0.41
2:P:97:ASN:ND2	2:P:97:ASN:C	2.79	0.41
2:P:101:SER:OG	2:P:104:GLU:HG2	2.20	0.41
2:Q:79:THR:O	2:Q:81:SER:N	2.54	0.41
2:R:106:ARG:CB	2:R:121:VAL:HG21	2.48	0.41
2:S:57:ALA:O	2:S:59:GLY:N	2.54	0.41
2:T:59:GLY:O	2:T:60:ASN:C	2.63	0.41
1:A:74:GLU:HB2	1:A:78:LYS:HB3	2.03	0.40
1:A:267:TYR:C	1:A:269:ASN:N	2.77	0.40
1:A:350:VAL:HG12	1:A:351:HIS:N	2.35	0.40
1:A:505:LYS:C	1:A:507:GLN:N	2.80	0.40
1:A:523:LEU:HD11	2:O:144:MET:HG2	2.02	0.40
1:A:561:ASN:HA	1:A:564:VAL:HG22	2.03	0.40
1:A:719:LYS:O	1:A:720:ILE:C	2.63	0.40
1:A:726:ILE:O	1:A:727:GLN:C	2.64	0.40
1:B:127:SER:OG	1:B:135:VAL:HG21	2.21	0.40
1:B:134:LYS:O	1:B:135:VAL:CG1	2.67	0.40
1:B:173:ILE:HG13	1:B:242:SER:CB	2.50	0.40
1:B:181:ILE:O	1:B:181:ILE:HG12	2.20	0.40
1:B:188:LEU:H	1:B:188:LEU:HG	1.73	0.40
1:B:267:TYR:O	1:B:268:MET:C	2.63	0.40
1:B:293:ILE:H	1:B:293:ILE:HG12	1.44	0.40
1:B:647:ASP:OD2	1:B:647:ASP:C	2.64	0.40
1:B:719:LYS:O	1:B:720:ILE:C	2.64	0.40
1:B:741:ILE:O	1:B:741:ILE:HG13	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:PHE:N	1:C:141:PHE:CD1	2.90	0.40
1:C:217:LYS:HG3	1:C:236:GLU:HG3	2.04	0.40
1:C:288:VAL:O	1:C:291:ASP:O	2.38	0.40
1:C:455:TYR:HA	1:C:471:TRP:CZ3	2.56	0.40
1:D:89:ILE:HG21	1:D:175:LYS:HE2	2.02	0.40
1:D:398:ILE:CD1	1:D:479:LYS:HB3	2.51	0.40
1:D:413:LEU:HB2	1:D:419:ILE:HG12	2.03	0.40
1:D:606:LYS:HB2	1:D:610:MET:CE	2.51	0.40
1:D:630:ARG:NH1	2:R:83:GLU:HG2	2.36	0.40
1:D:729:TYR:O	1:D:732:ILE:N	2.51	0.40
1:E:71:PHE:CD1	1:E:108:ASP:OD1	2.74	0.40
1:E:89:ILE:HG21	1:E:175:LYS:HE2	2.04	0.40
1:E:179:LEU:O	1:E:182:ILE:HG22	2.21	0.40
1:E:220:LEU:HG	1:E:223:LYS:HB3	2.02	0.40
1:E:494:LEU:HD13	1:E:497:LEU:HD21	2.03	0.40
1:E:533:LEU:HD23	2:S:112:LEU:HD21	2.04	0.40
1:E:561:ASN:HA	1:E:564:VAL:HG22	2.03	0.40
1:F:197:LYS:C	1:F:197:LYS:NZ	2.77	0.40
1:F:523:LEU:HD11	2:T:144:MET:HG2	2.03	0.40
2:O:39:LEU:HA	2:O:39:LEU:HD12	1.83	0.40
2:P:70:THR:O	2:P:72:MET:N	2.54	0.40
2:P:138:TYR:CE1	2:P:142:VAL:HG22	2.57	0.40
2:R:27:ILE:HD12	2:R:32:LEU:HA	2.04	0.40
2:R:104:GLU:O	2:R:105:LEU:C	2.63	0.40
2:S:104:GLU:O	2:S:105:LEU:C	2.64	0.40
1:A:692:GLU:CD	2:O:21:LYS:NZ	2.79	0.40
1:B:397:GLU:O	1:B:398:ILE:HD13	2.21	0.40
1:B:514:ASP:C	1:B:516:VAL:N	2.79	0.40
1:B:632:TYR:HD2	1:B:632:TYR:HA	1.74	0.40
1:B:688:PHE:O	1:B:689:ALA:C	2.62	0.40
1:C:179:LEU:O	1:C:182:ILE:HG22	2.22	0.40
1:C:323:ASN:HD22	1:C:598:PRO:HB3	1.86	0.40
1:C:409:ARG:O	1:C:413:LEU:HG	2.21	0.40
1:C:514:ASP:C	1:C:516:VAL:N	2.78	0.40
1:C:597:ASN:C	1:C:599:GLU:N	2.79	0.40
1:D:90:PRO:O	1:D:91:LYS:C	2.64	0.40
1:D:136:PRO:O	1:D:137:PHE:C	2.64	0.40
1:D:408:LEU:H	1:D:408:LEU:CD1	2.02	0.40
1:D:736:LEU:HD21	1:D:750:GLN:OE1	2.21	0.40
1:E:90:PRO:O	1:E:91:LYS:C	2.65	0.40
1:E:323:ASN:HD22	1:E:598:PRO:CB	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:481:VAL:O	1:E:482:GLU:C	2.65	0.40
1:E:504:ILE:N	1:E:504:ILE:CD1	2.84	0.40
1:F:175:LYS:O	1:F:177:ILE:N	2.54	0.40
1:F:271:LEU:HA	1:F:275:GLY:HA3	2.02	0.40
1:F:752:LEU:HD23	1:F:752:LEU:HA	1.76	0.40
2:O:36:MET:CE	2:O:48:LEU:HD21	2.52	0.40
2:O:40:GLY:C	2:O:41:GLN:CG	2.94	0.40
2:O:70:THR:O	2:O:72:MET:N	2.54	0.40
2:Q:63:ILE:CG2	2:Q:67:GLU:CB	2.97	0.40
2:R:9:ILE:HG23	2:R:69:LEU:HD21	2.03	0.40
2:R:40:GLY:C	2:R:41:GLN:CG	2.95	0.40
2:R:75:LYS:O	2:R:79:THR:HG22	2.22	0.40
2:R:89:PHE:HB2	2:R:141:PHE:CE2	2.56	0.40
2:S:18:LEU:HB3	2:S:19:PHE:CE1	2.56	0.40
1:A:89:ILE:CG2	1:A:90:PRO:HD2	2.52	0.40
1:A:89:ILE:HG21	1:A:175:LYS:HE2	2.02	0.40
1:A:175:LYS:O	1:A:177:ILE:N	2.55	0.40
1:A:177:ILE:C	1:A:180:ASP:OD1	2.64	0.40
1:A:271:LEU:HA	1:A:275:GLY:HA3	2.03	0.40
1:A:523:LEU:HD11	2:O:144:MET:HG3	2.02	0.40
1:A:632:TYR:HD2	1:A:632:TYR:HA	1.74	0.40
1:A:741:ILE:H	1:A:741:ILE:HG12	1.64	0.40
1:A:754:GLU:O	1:A:757:THR:HB	2.21	0.40
1:B:131:ARG:CB	1:B:243:LEU:HD21	2.51	0.40
1:B:520:PRO:CG	1:B:521:ASN:N	2.84	0.40
1:C:86:LEU:C	1:C:88:LYS:N	2.78	0.40
1:C:115:LYS:O	1:C:117:LEU:N	2.54	0.40
1:C:142:VAL:HG13	1:C:154:ILE:HD11	2.02	0.40
1:C:217:LYS:CB	1:C:236:GLU:CD	2.94	0.40
1:C:267:TYR:C	1:C:269:ASN:N	2.77	0.40
1:C:348:LEU:O	1:C:349:ASN:C	2.63	0.40
1:C:357:TRP:O	1:C:357:TRP:CG	2.74	0.40
1:D:173:ILE:HG13	1:D:242:SER:CB	2.51	0.40
1:D:217:LYS:HG3	1:D:236:GLU:HG3	2.03	0.40
1:D:265:PHE:C	1:D:267:TYR:N	2.79	0.40
1:D:345:THR:CG2	1:D:491:ASP:HA	2.51	0.40
1:D:455:TYR:HA	1:D:471:TRP:CZ3	2.57	0.40
1:D:687:GLU:HA	1:D:687:GLU:OE2	2.21	0.40
1:E:100:LEU:CD2	1:E:182:ILE:HG21	2.51	0.40
1:E:225:ILE:HG23	1:E:229:PHE:HD2	1.83	0.40
1:E:238:GLN:C	1:E:240:ALA:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:355:SER:HA	1:E:372:LYS:H	1.86	0.40
1:E:495:PHE:O	1:E:496:ALA:HB2	2.21	0.40
1:E:501:LEU:HD13	2:S:108:VAL:HG13	2.03	0.40
1:E:687:GLU:OE2	1:E:687:GLU:HA	2.20	0.40
1:F:323:ASN:HD22	1:F:598:PRO:HB3	1.85	0.40
1:F:514:ASP:C	1:F:516:VAL:N	2.79	0.40
1:F:727:GLN:O	1:F:730:ASN:HB3	2.22	0.40
2:O:18:LEU:HB3	2:O:19:PHE:CE1	2.57	0.40
2:O:64:ASP:CB	2:O:67:GLU:OE2	2.67	0.40
2:P:9:ILE:HG23	2:P:69:LEU:HD21	2.03	0.40
2:P:125:ILE:O	2:P:126:ARG:C	2.62	0.40
2:Q:27:ILE:HD12	2:Q:32:LEU:HA	2.03	0.40
2:Q:65:PHE:CE2	2:Q:69:LEU:HG	2.56	0.40
2:T:64:ASP:CB	2:T:67:GLU:OE2	2.68	0.40
2:T:79:THR:O	2:T:81:SER:N	2.54	0.40
1:A:229:PHE:O	1:A:231:LYS:N	2.55	0.40
1:A:687:GLU:HA	1:A:687:GLU:OE2	2.21	0.40
1:A:697:ILE:C	1:A:699:GLY:N	2.77	0.40
1:A:747:ASN:HD22	1:A:747:ASN:N	2.18	0.40
1:B:77:ASP:OD1	1:B:159:TYR:HE2	2.03	0.40
1:B:83:GLN:O	1:B:84:ASP:C	2.63	0.40
1:B:179:LEU:O	1:B:182:ILE:HG22	2.21	0.40
1:B:234:LEU:CD2	1:B:234:LEU:N	2.85	0.40
1:B:283:LEU:O	1:B:287:GLY:N	2.55	0.40
1:B:292:ARG:NE	1:B:617:LYS:HE3	2.36	0.40
1:B:355:SER:HA	1:B:372:LYS:H	1.87	0.40
1:B:622:LYS:HD3	1:B:622:LYS:HA	1.85	0.40
1:B:643:ILE:HG22	1:B:644:GLU:N	2.35	0.40
1:C:159:TYR:CD1	1:C:159:TYR:N	2.90	0.40
1:C:455:TYR:HA	1:C:471:TRP:HZ3	1.86	0.40
1:C:653:LYS:C	1:C:655:ASN:H	2.29	0.40
1:C:693:SER:OG	1:C:731:GLU:OE1	2.38	0.40
1:D:93:VAL:HG13	1:D:94:LEU:N	2.35	0.40
1:D:208:LEU:HD12	1:D:208:LEU:H	1.86	0.40
1:D:505:LYS:C	1:D:507:GLN:N	2.80	0.40
1:D:751:TYR:C	1:D:753:LYS:N	2.79	0.40
1:E:254:ARG:HH11	1:E:254:ARG:CB	2.27	0.40
1:E:549:LEU:HB2	1:E:553:GLN:HE21	1.87	0.40
1:F:131:ARG:CB	1:F:243:LEU:HD21	2.51	0.40
1:F:191:GLU:C	1:F:193:LEU:N	2.79	0.40
1:F:234:LEU:CD2	1:F:234:LEU:N	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:270:LYS:HA	1:F:273:LYS:CG	2.51	0.40
1:F:360:VAL:O	1:F:360:VAL:HG22	2.22	0.40
1:F:409:ARG:O	1:F:413:LEU:HG	2.21	0.40
1:F:549:LEU:HB2	1:F:553:GLN:HE21	1.87	0.40
1:F:794:GLN:O	1:F:795:LYS:C	2.63	0.40
2:O:125:ILE:O	2:O:126:ARG:C	2.62	0.40
2:P:105:LEU:HD21	2:P:124:MET:SD	2.62	0.40
2:Q:57:ALA:O	2:Q:59:GLY:N	2.54	0.40
2:T:65:PHE:CE2	2:T:69:LEU:HG	2.56	0.40
1:A:71:PHE:CD1	1:A:108:ASP:OD1	2.75	0.40
1:A:161:ILE:HA	1:A:167:LYS:HD2	2.04	0.40
1:A:173:ILE:HG13	1:A:242:SER:CB	2.50	0.40
1:A:182:ILE:C	1:A:187:SER:HB2	2.47	0.40
1:A:197:LYS:HD3	1:A:263:ASP:CB	2.51	0.40
1:A:217:LYS:HZ1	1:A:236:GLU:HB2	1.81	0.40
1:A:315:PHE:CD2	1:A:560:LEU:HD13	2.57	0.40
1:A:320:ARG:NH1	1:A:599:GLU:O	2.55	0.40
1:A:323:ASN:HD22	1:A:598:PRO:CB	2.34	0.40
1:A:446:ILE:O	1:A:446:ILE:HG23	2.21	0.40
1:A:677:GLY:C	1:A:679:TYR:N	2.78	0.40
1:A:748:TYR:C	1:A:750:GLN:N	2.80	0.40
1:B:173:ILE:O	1:B:174:GLY:C	2.65	0.40
1:B:265:PHE:C	1:B:267:TYR:N	2.80	0.40
1:C:254:ARG:HH11	1:C:254:ARG:CB	2.27	0.40
1:C:323:ASN:HD22	1:C:598:PRO:CB	2.33	0.40
1:C:365:PRO:C	1:C:367:ASP:N	2.75	0.40
1:C:719:LYS:O	1:C:720:ILE:C	2.64	0.40
1:C:751:TYR:C	1:C:753:LYS:N	2.79	0.40
1:C:794:GLN:HE21	1:C:794:GLN:HB3	1.61	0.40
1:D:81:GLN:CD	1:D:156:ILE:HG21	2.47	0.40
1:D:234:LEU:CD2	1:D:234:LEU:N	2.84	0.40
1:D:368:GLN:HG3	1:D:383:GLY:HA3	2.03	0.40
1:D:735:VAL:C	1:D:737:LYS:N	2.80	0.40
1:D:775:LEU:C	1:D:777:TYR:N	2.78	0.40
1:E:208:LEU:HD12	1:E:208:LEU:H	1.87	0.40
1:E:216:GLU:HG3	1:E:217:LYS:HG2	2.03	0.40
1:E:305:SER:C	1:E:307:LEU:N	2.76	0.40
1:E:629:ASN:O	1:E:630:ARG:C	2.64	0.40
1:F:110:ASP:OD1	1:F:110:ASP:N	2.54	0.40
1:F:142:VAL:CG2	1:F:154:ILE:HD12	2.37	0.40
1:F:243:LEU:O	1:F:247:TYR:CD1	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:398:ILE:CD1	1:F:479:LYS:HB3	2.51	0.40
1:F:455:TYR:HA	1:F:471:TRP:CZ3	2.56	0.40
1:F:610:MET:HE3	1:F:610:MET:HB2	1.92	0.40
1:F:735:VAL:C	1:F:737:LYS:N	2.79	0.40
2:O:55:VAL:CG1	2:O:71:MET:HE3	2.46	0.40
2:P:40:GLY:C	2:P:41:GLN:CG	2.95	0.40
2:Q:33:GLY:O	2:Q:35:VAL:N	2.54	0.40
2:S:27:ILE:HD12	2:S:32:LEU:HA	2.03	0.40
2:S:36:MET:CE	2:S:48:LEU:HD21	2.51	0.40
2:T:9:ILE:HG23	2:T:69:LEU:HD21	2.03	0.40
2:T:24:ASP:HB2	2:T:26:THR:CG2	2.35	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 X-ray entries followed by that with respect to entries of similar resolution.

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	733/777 (94%)	490 (67%)	170 (23%)	73 (10%)	0	3
1	B	733/777 (94%)	492 (67%)	171 (23%)	70 (10%)	0	3
1	C	733/777 (94%)	494 (67%)	171 (23%)	68 (9%)	0	3
1	D	733/777 (94%)	493 (67%)	170 (23%)	70 (10%)	0	3
1	E	733/777 (94%)	492 (67%)	171 (23%)	70 (10%)	0	3
1	F	733/777 (94%)	490 (67%)	172 (24%)	71 (10%)	0	3
2	O	144/149 (97%)	92 (64%)	39 (27%)	13 (9%)	0	4
2	P	144/149 (97%)	89 (62%)	39 (27%)	16 (11%)	0	2
2	Q	144/149 (97%)	90 (62%)	37 (26%)	17 (12%)	0	1
2	R	144/149 (97%)	90 (62%)	38 (26%)	16 (11%)	0	2
2	S	144/149 (97%)	90 (62%)	39 (27%)	15 (10%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	T	144/149 (97%)	90 (62%)	40 (28%)	14 (10%)	0	3
All	All	5262/5556 (95%)	3492 (66%)	1257 (24%)	513 (10%)	0	3

All (513) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	77	ASP
1	A	111	LEU
1	A	113	GLU
1	A	135	VAL
1	A	162	ASN
1	A	180	ASP
1	A	278	LYS
1	A	373	LYS
1	A	407	HIS
1	A	580	GLU
1	A	776	LEU
1	B	77	ASP
1	B	111	LEU
1	B	113	GLU
1	B	135	VAL
1	B	162	ASN
1	B	180	ASP
1	B	278	LYS
1	B	373	LYS
1	B	407	HIS
1	B	447	SER
1	B	580	GLU
1	B	765	THR
1	B	776	LEU
1	C	77	ASP
1	C	111	LEU
1	C	113	GLU
1	C	135	VAL
1	C	162	ASN
1	C	180	ASP
1	C	278	LYS
1	C	373	LYS
1	C	407	HIS
1	C	447	SER
1	C	580	GLU
1	C	765	THR

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Mol	Chain	Res	Type
1	C	776	LEU
1	D	77	ASP
1	D	111	LEU
1	D	113	GLU
1	D	135	VAL
1	D	162	ASN
1	D	180	ASP
1	D	278	LYS
1	D	373	LYS
1	D	407	HIS
1	D	580	GLU
1	D	765	THR
1	D	776	LEU
1	E	77	ASP
1	E	111	LEU
1	E	113	GLU
1	E	135	VAL
1	E	162	ASN
1	E	180	ASP
1	E	373	LYS
1	E	407	HIS
1	E	580	GLU
1	E	776	LEU
1	F	77	ASP
1	F	111	LEU
1	F	113	GLU
1	F	135	VAL
1	F	162	ASN
1	F	180	ASP
1	F	278	LYS
1	F	373	LYS
1	F	407	HIS
1	F	580	GLU
1	F	776	LEU
1	A	80	GLN
1	A	112	VAL
1	A	176	GLY
1	A	178	SER
1	A	230	ILE
1	A	232	GLU
1	A	294	ASP
1	A	299	GLU

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Mol	Chain	Res	Type
1	A	302	LEU
1	A	372	LYS
1	A	376	GLN
1	A	447	SER
1	A	485	LEU
1	A	510	GLN
1	A	709	ASN
1	A	711	ILE
1	A	765	THR
1	A	775	LEU
1	B	80	GLN
1	B	112	VAL
1	B	163	SER
1	B	176	GLY
1	B	178	SER
1	B	192	PHE
1	B	230	ILE
1	B	232	GLU
1	B	294	ASP
1	B	299	GLU
1	B	302	LEU
1	B	372	LYS
1	B	376	GLN
1	B	485	LEU
1	B	510	GLN
1	B	709	ASN
1	B	711	ILE
1	B	727	GLN
1	B	775	LEU
1	C	80	GLN
1	C	112	VAL
1	C	176	GLY
1	C	178	SER
1	C	230	ILE
1	C	232	GLU
1	C	294	ASP
1	C	299	GLU
1	C	302	LEU
1	C	372	LYS
1	C	376	GLN
1	C	385	LEU
1	C	485	LEU

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Mol	Chain	Res	Type
1	C	510	GLN
1	C	709	ASN
1	C	711	ILE
1	C	727	GLN
1	C	775	LEU
1	D	80	GLN
1	D	112	VAL
1	D	176	GLY
1	D	178	SER
1	D	230	ILE
1	D	232	GLU
1	D	294	ASP
1	D	299	GLU
1	D	302	LEU
1	D	372	LYS
1	D	376	GLN
1	D	447	SER
1	D	485	LEU
1	D	510	GLN
1	D	709	ASN
1	D	711	ILE
1	D	775	LEU
1	E	80	GLN
1	E	112	VAL
1	E	176	GLY
1	E	178	SER
1	E	230	ILE
1	E	232	GLU
1	E	278	LYS
1	E	294	ASP
1	E	299	GLU
1	E	302	LEU
1	E	372	LYS
1	E	376	GLN
1	E	447	SER
1	E	485	LEU
1	E	510	GLN
1	E	709	ASN
1	E	711	ILE
1	E	765	THR
1	E	775	LEU
1	F	80	GLN

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Mol	Chain	Res	Type
1	F	112	VAL
1	F	176	GLY
1	F	178	SER
1	F	230	ILE
1	F	232	GLU
1	F	294	ASP
1	F	299	GLU
1	F	302	LEU
1	F	372	LYS
1	F	376	GLN
1	F	447	SER
1	F	485	LEU
1	F	510	GLN
1	F	709	ASN
1	F	711	ILE
1	F	727	GLN
1	F	765	THR
1	F	775	LEU
2	O	58	ASP
2	O	93	ASP
2	O	125	ILE
2	P	58	ASP
2	P	93	ASP
2	P	125	ILE
2	Q	58	ASP
2	Q	93	ASP
2	Q	125	ILE
2	R	58	ASP
2	R	93	ASP
2	R	125	ILE
2	S	58	ASP
2	S	93	ASP
2	S	125	ILE
2	T	58	ASP
2	T	93	ASP
2	T	125	ILE
1	A	147	ARG
1	A	163	SER
1	A	185	ASP
1	A	192	PHE
1	A	223	LYS
1	A	274	GLY

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Mol	Chain	Res	Type
1	A	385	LEU
1	A	471	TRP
1	A	528	GLY
1	A	568	GLY
1	A	727	GLN
1	A	730	ASN
1	A	734	ASN
1	A	757	THR
1	A	787	THR
1	A	793	PHE
1	B	185	ASP
1	B	190	PRO
1	B	223	LYS
1	B	274	GLY
1	B	385	LEU
1	B	471	TRP
1	B	528	GLY
1	B	568	GLY
1	B	730	ASN
1	B	734	ASN
1	B	757	THR
1	B	787	THR
1	C	147	ARG
1	C	163	SER
1	C	185	ASP
1	C	223	LYS
1	C	274	GLY
1	C	471	TRP
1	C	568	GLY
1	C	730	ASN
1	C	734	ASN
1	C	757	THR
1	C	787	THR
1	D	163	SER
1	D	185	ASP
1	D	192	PHE
1	D	223	LYS
1	D	274	GLY
1	D	385	LEU
1	D	471	TRP
1	D	528	GLY
1	D	568	GLY

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Mol	Chain	Res	Type
1	D	727	GLN
1	D	730	ASN
1	D	731	GLU
1	D	734	ASN
1	D	757	THR
1	D	787	THR
1	E	147	ARG
1	E	163	SER
1	E	185	ASP
1	E	192	PHE
1	E	223	LYS
1	E	274	GLY
1	E	385	LEU
1	E	471	TRP
1	E	568	GLY
1	E	727	GLN
1	E	730	ASN
1	E	734	ASN
1	E	757	THR
1	E	787	THR
1	F	147	ARG
1	F	163	SER
1	F	185	ASP
1	F	223	LYS
1	F	274	GLY
1	F	385	LEU
1	F	471	TRP
1	F	528	GLY
1	F	568	GLY
1	F	730	ASN
1	F	734	ASN
1	F	757	THR
1	F	787	THR
2	O	73	ALA
2	O	80	ASP
2	O	118	ASP
2	P	73	ALA
2	P	80	ASP
2	Q	67	GLU
2	Q	73	ALA
2	Q	80	ASP
2	R	67	GLU

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Mol	Chain	Res	Type
2	R	69	LEU
2	R	73	ALA
2	R	80	ASP
2	R	118	ASP
2	S	67	GLU
2	S	69	LEU
2	S	73	ALA
2	S	80	ASP
2	T	69	LEU
2	T	73	ALA
2	T	80	ASP
1	A	91	LYS
1	A	188	LEU
1	A	290	LYS
1	A	433	TYR
1	A	535	LYS
1	A	629	ASN
1	A	654	ILE
1	A	719	LYS
1	A	731	GLU
1	A	794	GLN
1	B	91	LYS
1	B	147	ARG
1	B	181	ILE
1	B	188	LEU
1	B	290	LYS
1	B	433	TYR
1	B	535	LYS
1	B	629	ASN
1	B	654	ILE
1	B	719	LYS
1	B	793	PHE
1	B	794	GLN
1	C	181	ILE
1	C	188	LEU
1	C	192	PHE
1	C	290	LYS
1	C	433	TYR
1	C	528	GLY
1	C	535	LYS
1	C	629	ASN
1	C	719	LYS

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Mol	Chain	Res	Type
1	C	793	PHE
1	C	794	GLN
1	D	65	ASN
1	D	147	ARG
1	D	188	LEU
1	D	290	LYS
1	D	433	TYR
1	D	629	ASN
1	D	719	LYS
1	D	793	PHE
1	D	794	GLN
1	E	181	ILE
1	E	188	LEU
1	E	290	LYS
1	E	433	TYR
1	E	528	GLY
1	E	629	ASN
1	E	719	LYS
1	E	731	GLU
1	E	793	PHE
1	E	794	GLN
1	F	181	ILE
1	F	188	LEU
1	F	290	LYS
1	F	433	TYR
1	F	535	LYS
1	F	629	ASN
1	F	654	ILE
1	F	719	LYS
1	F	731	GLU
1	F	793	PHE
1	F	794	GLN
2	O	14	GLU
2	O	34	THR
2	O	67	GLU
2	O	69	LEU
2	P	14	GLU
2	P	34	THR
2	P	67	GLU
2	P	69	LEU
2	P	118	ASP
2	Q	14	GLU

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Mol	Chain	Res	Type
2	Q	34	THR
2	Q	69	LEU
2	Q	118	ASP
2	R	14	GLU
2	S	14	GLU
2	S	118	ASP
2	T	14	GLU
2	T	67	GLU
2	T	118	ASP
1	A	121	SER
1	A	181	ILE
1	A	423	LYS
1	A	515	LYS
1	A	527	LYS
1	A	748	TYR
1	A	779	GLN
1	B	423	LYS
1	B	527	LYS
1	B	698	ALA
1	B	731	GLU
1	B	748	TYR
1	C	423	LYS
1	C	654	ILE
1	C	731	GLU
1	D	515	LYS
1	D	527	LYS
1	D	535	LYS
1	D	537	GLY
1	D	698	ALA
1	D	714	GLN
1	D	748	TYR
1	E	423	LYS
1	E	535	LYS
1	E	643	ILE
1	E	698	ALA
1	E	714	GLN
1	E	748	TYR
1	E	779	GLN
1	F	192	PHE
1	F	423	LYS
1	F	527	LYS
1	F	698	ALA

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Mol	Chain	Res	Type
2	O	60	ASN
2	P	60	ASN
2	Q	60	ASN
2	R	34	THR
2	R	60	ASN
2	S	34	THR
2	S	60	ASN
2	S	71	MET
2	T	34	THR
2	T	94	LYS
1	A	201	ASP
1	A	295	VAL
1	A	307	LEU
1	A	537	GLY
1	A	669	SER
1	A	698	ALA
1	A	714	GLN
1	B	201	ASP
1	B	438	ASN
1	B	537	GLY
1	B	779	GLN
1	C	201	ASP
1	C	307	LEU
1	C	515	LYS
1	C	527	LYS
1	C	537	GLY
1	C	669	SER
1	C	698	ALA
1	D	91	LYS
1	D	181	ILE
1	D	295	VAL
1	D	423	LYS
1	D	643	ILE
1	D	654	ILE
1	E	121	SER
1	E	189	ASP
1	E	201	ASP
1	E	295	VAL
1	E	527	LYS
1	E	537	GLY
1	F	91	LYS
1	F	201	ASP

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Mol	Chain	Res	Type
1	F	295	VAL
1	F	515	LYS
1	F	537	GLY
1	F	714	GLN
1	F	779	GLN
2	P	17	SER
2	P	30	LYS
2	P	71	MET
2	Q	17	SER
2	Q	30	LYS
2	Q	56	ASP
2	Q	71	MET
2	R	30	LYS
2	R	56	ASP
2	R	71	MET
2	S	30	LYS
2	T	60	ASN
1	B	295	VAL
1	C	295	VAL
1	E	654	ILE
2	O	42	ASN
2	P	42	ASN
2	P	43	PRO
2	Q	42	ASN
2	R	42	ASN
2	S	42	ASN
2	T	42	ASN
1	A	699	GLY
1	A	742	ALA
1	A	792	VAL
1	C	643	ILE
1	C	792	VAL
1	D	699	GLY
1	D	742	ALA
1	F	792	VAL
2	Q	43	PRO
2	R	43	PRO
2	S	43	PRO
2	T	43	PRO
1	A	190	PRO
1	B	699	GLY
1	B	742	ALA

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Mol	Chain	Res	Type
1	B	792	VAL
1	C	699	GLY
1	C	742	ALA
1	D	792	VAL
1	E	699	GLY
1	E	742	ALA
1	E	792	VAL
1	F	643	ILE
1	F	699	GLY
1	F	742	ALA
2	O	43	PRO
1	B	643	ILE
1	D	596	ILE
1	F	189	ASP
1	F	596	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	664/705 (94%)	574 (86%)	90 (14%)	3	16
1	B	664/705 (94%)	575 (87%)	89 (13%)	4	16
1	C	664/705 (94%)	577 (87%)	87 (13%)	4	17
1	D	664/705 (94%)	577 (87%)	87 (13%)	4	17
1	E	664/705 (94%)	577 (87%)	87 (13%)	4	17
1	F	664/705 (94%)	576 (87%)	88 (13%)	4	17
2	O	123/127 (97%)	104 (85%)	19 (15%)	2	12
2	P	123/127 (97%)	104 (85%)	19 (15%)	2	12
2	Q	123/127 (97%)	104 (85%)	19 (15%)	2	12
2	R	123/127 (97%)	104 (85%)	19 (15%)	2	12
2	S	123/127 (97%)	104 (85%)	19 (15%)	2	12
2	T	123/127 (97%)	104 (85%)	19 (15%)	2	12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	4722/4992 (95%)	4080 (86%)	642 (14%)	3 16

All (642) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	71	PHE
1	A	78	LYS
1	A	112	VAL
1	A	114	HIS
1	A	115	LYS
1	A	120	LEU
1	A	123	GLU
1	A	130	SER
1	A	133	GLU
1	A	135	VAL
1	A	140	ARG
1	A	141	PHE
1	A	144	GLU
1	A	147	ARG
1	A	149	THR
1	A	158	ASP
1	A	172	GLU
1	A	173	ILE
1	A	175	LYS
1	A	177	ILE
1	A	182	ILE
1	A	188	LEU
1	A	197	LYS
1	A	208	LEU
1	A	210	PHE
1	A	212	GLN
1	A	217	LYS
1	A	254	ARG
1	A	270	LYS
1	A	279	ILE
1	A	284	LYS
1	A	286	GLU
1	A	293	ILE
1	A	296	LEU
1	A	309	PRO
1	A	323	ASN
1	A	324	THR

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Mol	Chain	Res	Type
1	A	331	VAL
1	A	346	LYS
1	A	349	ASN
1	A	377	GLN
1	A	385	LEU
1	A	395	GLU
1	A	400	LYS
1	A	408	LEU
1	A	410	ILE
1	A	415	GLU
1	A	416	ASN
1	A	420	LEU
1	A	434	LEU
1	A	438	ASN
1	A	446	ILE
1	A	455	TYR
1	A	470	ASN
1	A	473	ASN
1	A	479	LYS
1	A	484	VAL
1	A	495	PHE
1	A	500	SER
1	A	501	LEU
1	A	502	THR
1	A	515	LYS
1	A	518	ASN
1	A	533	LEU
1	A	551	ASN
1	A	557	LEU
1	A	560	LEU
1	A	562	GLU
1	A	625	LEU
1	A	635	ILE
1	A	639	ASN
1	A	649	ILE
1	A	659	THR
1	A	665	LYS
1	A	670	ILE
1	A	672	ARG
1	A	674	SER
1	A	678	VAL
1	A	688	PHE

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Mol	Chain	Res	Type
1	A	716	LYS
1	A	718	ARG
1	A	720	ILE
1	A	738	SER
1	A	744	GLU
1	A	752	LEU
1	A	766	HIS
1	A	767	GLN
1	A	770	ASN
1	A	780	LEU
1	A	794	GLN
1	B	64	ASN
1	B	78	LYS
1	B	112	VAL
1	B	114	HIS
1	B	115	LYS
1	B	120	LEU
1	B	123	GLU
1	B	130	SER
1	B	133	GLU
1	B	135	VAL
1	B	140	ARG
1	B	141	PHE
1	B	144	GLU
1	B	147	ARG
1	B	149	THR
1	B	158	ASP
1	B	172	GLU
1	B	173	ILE
1	B	175	LYS
1	B	177	ILE
1	B	182	ILE
1	B	188	LEU
1	B	197	LYS
1	B	208	LEU
1	B	210	PHE
1	B	212	GLN
1	B	217	LYS
1	B	254	ARG
1	B	270	LYS
1	B	279	ILE
1	B	284	LYS

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Mol	Chain	Res	Type
1	B	286	GLU
1	B	293	ILE
1	B	296	LEU
1	B	309	PRO
1	B	323	ASN
1	B	324	THR
1	B	346	LYS
1	B	349	ASN
1	B	377	GLN
1	B	385	LEU
1	B	395	GLU
1	B	400	LYS
1	B	408	LEU
1	B	410	ILE
1	B	415	GLU
1	B	416	ASN
1	B	420	LEU
1	B	434	LEU
1	B	438	ASN
1	B	446	ILE
1	B	455	TYR
1	B	470	ASN
1	B	473	ASN
1	B	479	LYS
1	B	484	VAL
1	B	500	SER
1	B	501	LEU
1	B	502	THR
1	B	515	LYS
1	B	518	ASN
1	B	533	LEU
1	B	548	THR
1	B	551	ASN
1	B	557	LEU
1	B	560	LEU
1	B	562	GLU
1	B	625	LEU
1	B	635	ILE
1	B	639	ASN
1	B	649	ILE
1	B	659	THR
1	B	665	LYS

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Mol	Chain	Res	Type
1	B	670	ILE
1	B	672	ARG
1	B	674	SER
1	B	678	VAL
1	B	688	PHE
1	B	716	LYS
1	B	718	ARG
1	B	720	ILE
1	B	738	SER
1	B	744	GLU
1	B	752	LEU
1	B	766	HIS
1	B	767	GLN
1	B	770	ASN
1	B	780	LEU
1	B	794	GLN
1	C	78	LYS
1	C	112	VAL
1	C	114	HIS
1	C	115	LYS
1	C	120	LEU
1	C	123	GLU
1	C	130	SER
1	C	133	GLU
1	C	135	VAL
1	C	140	ARG
1	C	141	PHE
1	C	144	GLU
1	C	147	ARG
1	C	149	THR
1	C	158	ASP
1	C	172	GLU
1	C	173	ILE
1	C	175	LYS
1	C	177	ILE
1	C	182	ILE
1	C	188	LEU
1	C	197	LYS
1	C	208	LEU
1	C	210	PHE
1	C	212	GLN
1	C	217	LYS

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Mol	Chain	Res	Type
1	C	254	ARG
1	C	270	LYS
1	C	279	ILE
1	C	284	LYS
1	C	286	GLU
1	C	293	ILE
1	C	296	LEU
1	C	309	PRO
1	C	323	ASN
1	C	324	THR
1	C	331	VAL
1	C	346	LYS
1	C	349	ASN
1	C	377	GLN
1	C	385	LEU
1	C	395	GLU
1	C	400	LYS
1	C	408	LEU
1	C	410	ILE
1	C	415	GLU
1	C	416	ASN
1	C	420	LEU
1	C	434	LEU
1	C	438	ASN
1	C	446	ILE
1	C	455	TYR
1	C	470	ASN
1	C	473	ASN
1	C	479	LYS
1	C	484	VAL
1	C	500	SER
1	C	501	LEU
1	C	502	THR
1	C	515	LYS
1	C	518	ASN
1	C	533	LEU
1	C	557	LEU
1	C	560	LEU
1	C	562	GLU
1	C	625	LEU
1	C	635	ILE
1	C	639	ASN

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Mol	Chain	Res	Type
1	C	649	ILE
1	C	659	THR
1	C	665	LYS
1	C	670	ILE
1	C	672	ARG
1	C	674	SER
1	C	678	VAL
1	C	688	PHE
1	C	716	LYS
1	C	718	ARG
1	C	720	ILE
1	C	738	SER
1	C	744	GLU
1	C	752	LEU
1	C	766	HIS
1	C	767	GLN
1	C	770	ASN
1	C	780	LEU
1	C	794	GLN
1	D	78	LYS
1	D	112	VAL
1	D	114	HIS
1	D	115	LYS
1	D	120	LEU
1	D	123	GLU
1	D	130	SER
1	D	133	GLU
1	D	135	VAL
1	D	140	ARG
1	D	141	PHE
1	D	144	GLU
1	D	147	ARG
1	D	149	THR
1	D	158	ASP
1	D	172	GLU
1	D	173	ILE
1	D	175	LYS
1	D	177	ILE
1	D	182	ILE
1	D	188	LEU
1	D	197	LYS
1	D	208	LEU

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Mol	Chain	Res	Type
1	D	210	PHE
1	D	212	GLN
1	D	217	LYS
1	D	254	ARG
1	D	270	LYS
1	D	279	ILE
1	D	284	LYS
1	D	286	GLU
1	D	293	ILE
1	D	296	LEU
1	D	309	PRO
1	D	323	ASN
1	D	324	THR
1	D	346	LYS
1	D	349	ASN
1	D	377	GLN
1	D	385	LEU
1	D	395	GLU
1	D	400	LYS
1	D	408	LEU
1	D	410	ILE
1	D	415	GLU
1	D	416	ASN
1	D	420	LEU
1	D	434	LEU
1	D	438	ASN
1	D	446	ILE
1	D	455	TYR
1	D	470	ASN
1	D	473	ASN
1	D	479	LYS
1	D	484	VAL
1	D	500	SER
1	D	501	LEU
1	D	502	THR
1	D	515	LYS
1	D	518	ASN
1	D	533	LEU
1	D	557	LEU
1	D	560	LEU
1	D	562	GLU
1	D	625	LEU

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Mol	Chain	Res	Type
1	D	635	ILE
1	D	639	ASN
1	D	643	ILE
1	D	649	ILE
1	D	659	THR
1	D	665	LYS
1	D	670	ILE
1	D	672	ARG
1	D	674	SER
1	D	678	VAL
1	D	688	PHE
1	D	716	LYS
1	D	718	ARG
1	D	720	ILE
1	D	738	SER
1	D	744	GLU
1	D	752	LEU
1	D	766	HIS
1	D	767	GLN
1	D	770	ASN
1	D	780	LEU
1	D	794	GLN
1	E	78	LYS
1	E	112	VAL
1	E	114	HIS
1	E	115	LYS
1	E	120	LEU
1	E	123	GLU
1	E	130	SER
1	E	133	GLU
1	E	135	VAL
1	E	140	ARG
1	E	141	PHE
1	E	144	GLU
1	E	147	ARG
1	E	149	THR
1	E	158	ASP
1	E	172	GLU
1	E	173	ILE
1	E	175	LYS
1	E	177	ILE
1	E	182	ILE

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Mol	Chain	Res	Type
1	E	188	LEU
1	E	197	LYS
1	E	208	LEU
1	E	210	PHE
1	E	212	GLN
1	E	217	LYS
1	E	254	ARG
1	E	270	LYS
1	E	279	ILE
1	E	284	LYS
1	E	286	GLU
1	E	293	ILE
1	E	296	LEU
1	E	309	PRO
1	E	323	ASN
1	E	324	THR
1	E	346	LYS
1	E	349	ASN
1	E	377	GLN
1	E	385	LEU
1	E	395	GLU
1	E	400	LYS
1	E	408	LEU
1	E	410	ILE
1	E	415	GLU
1	E	416	ASN
1	E	420	LEU
1	E	434	LEU
1	E	438	ASN
1	E	446	ILE
1	E	455	TYR
1	E	470	ASN
1	E	473	ASN
1	E	479	LYS
1	E	484	VAL
1	E	500	SER
1	E	501	LEU
1	E	502	THR
1	E	515	LYS
1	E	518	ASN
1	E	533	LEU
1	E	557	LEU

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Mol	Chain	Res	Type
1	E	560	LEU
1	E	562	GLU
1	E	625	LEU
1	E	635	ILE
1	E	639	ASN
1	E	643	ILE
1	E	649	ILE
1	E	659	THR
1	E	665	LYS
1	E	670	ILE
1	E	672	ARG
1	E	674	SER
1	E	678	VAL
1	E	688	PHE
1	E	716	LYS
1	E	718	ARG
1	E	720	ILE
1	E	738	SER
1	E	744	GLU
1	E	752	LEU
1	E	766	HIS
1	E	767	GLN
1	E	770	ASN
1	E	780	LEU
1	E	794	GLN
1	F	78	LYS
1	F	112	VAL
1	F	114	HIS
1	F	115	LYS
1	F	120	LEU
1	F	123	GLU
1	F	130	SER
1	F	133	GLU
1	F	135	VAL
1	F	140	ARG
1	F	141	PHE
1	F	144	GLU
1	F	147	ARG
1	F	149	THR
1	F	158	ASP
1	F	172	GLU
1	F	173	ILE

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Mol	Chain	Res	Type
1	F	175	LYS
1	F	177	ILE
1	F	182	ILE
1	F	188	LEU
1	F	190	PRO
1	F	197	LYS
1	F	208	LEU
1	F	210	PHE
1	F	212	GLN
1	F	217	LYS
1	F	254	ARG
1	F	270	LYS
1	F	279	ILE
1	F	284	LYS
1	F	286	GLU
1	F	293	ILE
1	F	296	LEU
1	F	309	PRO
1	F	323	ASN
1	F	324	THR
1	F	346	LYS
1	F	349	ASN
1	F	377	GLN
1	F	385	LEU
1	F	395	GLU
1	F	400	LYS
1	F	408	LEU
1	F	410	ILE
1	F	415	GLU
1	F	416	ASN
1	F	420	LEU
1	F	434	LEU
1	F	438	ASN
1	F	446	ILE
1	F	455	TYR
1	F	470	ASN
1	F	473	ASN
1	F	479	LYS
1	F	484	VAL
1	F	495	PHE
1	F	500	SER
1	F	501	LEU

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Mol	Chain	Res	Type
1	F	502	THR
1	F	515	LYS
1	F	518	ASN
1	F	533	LEU
1	F	557	LEU
1	F	560	LEU
1	F	562	GLU
1	F	625	LEU
1	F	635	ILE
1	F	639	ASN
1	F	649	ILE
1	F	659	THR
1	F	665	LYS
1	F	670	ILE
1	F	672	ARG
1	F	674	SER
1	F	678	VAL
1	F	688	PHE
1	F	716	LYS
1	F	718	ARG
1	F	720	ILE
1	F	738	SER
1	F	744	GLU
1	F	752	LEU
1	F	766	HIS
1	F	767	GLN
1	F	770	ASN
1	F	780	LEU
1	F	794	GLN
2	O	5	THR
2	O	17	SER
2	O	24	ASP
2	O	26	THR
2	O	28	THR
2	O	30	LYS
2	O	42	ASN
2	O	45	GLU
2	O	66	PRO
2	O	75	LYS
2	O	76	MET
2	O	83	GLU
2	O	94	LYS

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Mol	Chain	Res	Type
2	O	97	ASN
2	O	106	ARG
2	O	115	LYS
2	O	117	THR
2	O	130	ILE
2	O	133	ASP
2	P	5	THR
2	P	17	SER
2	P	24	ASP
2	P	26	THR
2	P	28	THR
2	P	30	LYS
2	P	42	ASN
2	P	45	GLU
2	P	66	PRO
2	P	75	LYS
2	P	76	MET
2	P	83	GLU
2	P	94	LYS
2	P	97	ASN
2	P	106	ARG
2	P	115	LYS
2	P	117	THR
2	P	130	ILE
2	P	133	ASP
2	Q	5	THR
2	Q	17	SER
2	Q	24	ASP
2	Q	26	THR
2	Q	28	THR
2	Q	30	LYS
2	Q	42	ASN
2	Q	45	GLU
2	Q	66	PRO
2	Q	75	LYS
2	Q	76	MET
2	Q	83	GLU
2	Q	94	LYS
2	Q	97	ASN
2	Q	106	ARG
2	Q	115	LYS
2	Q	117	THR

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Mol	Chain	Res	Type
2	Q	130	ILE
2	Q	133	ASP
2	R	5	THR
2	R	17	SER
2	R	24	ASP
2	R	26	THR
2	R	28	THR
2	R	30	LYS
2	R	42	ASN
2	R	45	GLU
2	R	66	PRO
2	R	75	LYS
2	R	76	MET
2	R	83	GLU
2	R	94	LYS
2	R	97	ASN
2	R	106	ARG
2	R	115	LYS
2	R	117	THR
2	R	130	ILE
2	R	133	ASP
2	S	5	THR
2	S	17	SER
2	S	24	ASP
2	S	26	THR
2	S	28	THR
2	S	30	LYS
2	S	42	ASN
2	S	45	GLU
2	S	66	PRO
2	S	75	LYS
2	S	76	MET
2	S	83	GLU
2	S	94	LYS
2	S	97	ASN
2	S	106	ARG
2	S	115	LYS
2	S	117	THR
2	S	130	ILE
2	S	133	ASP
2	T	5	THR
2	T	17	SER

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Mol	Chain	Res	Type
2	T	24	ASP
2	T	26	THR
2	T	28	THR
2	T	30	LYS
2	T	42	ASN
2	T	45	GLU
2	T	66	PRO
2	T	75	LYS
2	T	76	MET
2	T	83	GLU
2	T	94	LYS
2	T	97	ASN
2	T	106	ARG
2	T	115	LYS
2	T	117	THR
2	T	130	ILE
2	T	133	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (219) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	118	GLN
1	A	126	ASN
1	A	129	ASN
1	A	239	HIS
1	A	323	ASN
1	A	368	GLN
1	A	387	ASN
1	A	438	ASN
1	A	440	GLN
1	A	450	ASN
1	A	480	ASN
1	A	507	GLN
1	A	510	GLN
1	A	518	ASN
1	A	526	GLN
1	A	551	ASN
1	A	553	GLN
1	A	576	ASN
1	A	577	HIS
1	A	581	GLN
1	A	618	ASN

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Mol	Chain	Res	Type
1	A	629	ASN
1	A	639	ASN
1	A	655	ASN
1	A	666	ASN
1	A	709	ASN
1	A	747	ASN
1	A	750	GLN
1	A	767	GLN
1	A	770	ASN
1	A	781	ASN
1	A	789	ASN
1	A	794	GLN
1	B	118	GLN
1	B	126	ASN
1	B	129	ASN
1	B	239	HIS
1	B	323	ASN
1	B	368	GLN
1	B	387	ASN
1	B	438	ASN
1	B	440	GLN
1	B	450	ASN
1	B	480	ASN
1	B	507	GLN
1	B	510	GLN
1	B	518	ASN
1	B	551	ASN
1	B	553	GLN
1	B	576	ASN
1	B	577	HIS
1	B	581	GLN
1	B	618	ASN
1	B	629	ASN
1	B	639	ASN
1	B	655	ASN
1	B	666	ASN
1	B	709	ASN
1	B	747	ASN
1	B	767	GLN
1	B	770	ASN
1	B	781	ASN
1	B	789	ASN

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Mol	Chain	Res	Type
1	B	794	GLN
1	C	118	GLN
1	C	126	ASN
1	C	129	ASN
1	C	239	HIS
1	C	323	ASN
1	C	368	GLN
1	C	387	ASN
1	C	438	ASN
1	C	440	GLN
1	C	450	ASN
1	C	480	ASN
1	C	507	GLN
1	C	510	GLN
1	C	518	ASN
1	C	526	GLN
1	C	551	ASN
1	C	553	GLN
1	C	576	ASN
1	C	581	GLN
1	C	618	ASN
1	C	629	ASN
1	C	639	ASN
1	C	655	ASN
1	C	666	ASN
1	C	709	ASN
1	C	714	GLN
1	C	747	ASN
1	C	750	GLN
1	C	767	GLN
1	C	770	ASN
1	C	781	ASN
1	C	789	ASN
1	C	794	GLN
1	D	64	ASN
1	D	118	GLN
1	D	126	ASN
1	D	129	ASN
1	D	239	HIS
1	D	323	ASN
1	D	368	GLN
1	D	387	ASN

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Mol	Chain	Res	Type
1	D	438	ASN
1	D	440	GLN
1	D	450	ASN
1	D	480	ASN
1	D	507	GLN
1	D	510	GLN
1	D	518	ASN
1	D	551	ASN
1	D	553	GLN
1	D	576	ASN
1	D	577	HIS
1	D	581	GLN
1	D	618	ASN
1	D	629	ASN
1	D	639	ASN
1	D	655	ASN
1	D	666	ASN
1	D	709	ASN
1	D	714	GLN
1	D	747	ASN
1	D	750	GLN
1	D	767	GLN
1	D	770	ASN
1	D	781	ASN
1	D	789	ASN
1	D	794	GLN
1	E	118	GLN
1	E	126	ASN
1	E	129	ASN
1	E	233	ASN
1	E	239	HIS
1	E	323	ASN
1	E	368	GLN
1	E	387	ASN
1	E	438	ASN
1	E	440	GLN
1	E	450	ASN
1	E	480	ASN
1	E	507	GLN
1	E	510	GLN
1	E	518	ASN
1	E	551	ASN

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Mol	Chain	Res	Type
1	E	553	GLN
1	E	576	ASN
1	E	577	HIS
1	E	581	GLN
1	E	618	ASN
1	E	629	ASN
1	E	639	ASN
1	E	655	ASN
1	E	666	ASN
1	E	709	ASN
1	E	747	ASN
1	E	750	GLN
1	E	767	GLN
1	E	770	ASN
1	E	781	ASN
1	E	789	ASN
1	E	794	GLN
1	F	64	ASN
1	F	126	ASN
1	F	129	ASN
1	F	239	HIS
1	F	323	ASN
1	F	368	GLN
1	F	387	ASN
1	F	440	GLN
1	F	450	ASN
1	F	480	ASN
1	F	507	GLN
1	F	510	GLN
1	F	518	ASN
1	F	551	ASN
1	F	553	GLN
1	F	576	ASN
1	F	581	GLN
1	F	618	ASN
1	F	629	ASN
1	F	639	ASN
1	F	655	ASN
1	F	666	ASN
1	F	709	ASN
1	F	714	GLN
1	F	747	ASN

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Mol	Chain	Res	Type
1	F	750	GLN
1	F	767	GLN
1	F	770	ASN
1	F	781	ASN
1	F	789	ASN
1	F	794	GLN
2	O	8	GLN
2	O	41	GLN
2	O	111	ASN
2	O	143	GLN
2	P	8	GLN
2	P	41	GLN
2	P	111	ASN
2	P	143	GLN
2	Q	8	GLN
2	Q	41	GLN
2	Q	111	ASN
2	Q	143	GLN
2	R	8	GLN
2	R	41	GLN
2	R	111	ASN
2	R	143	GLN
2	S	8	GLN
2	S	41	GLN
2	S	111	ASN
2	S	143	GLN
2	T	8	GLN
2	T	41	GLN
2	T	111	ASN
2	T	143	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 18 ligands modelled in this entry, 18 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	735/777 (94%)	-1.26	1 (0%) 92 90	24, 83, 143, 153	0
1	B	735/777 (94%)	-1.24	0 100 100	25, 83, 143, 153	0
1	C	735/777 (94%)	-1.24	2 (0%) 90 82	25, 83, 143, 153	0
1	D	735/777 (94%)	-1.28	1 (0%) 92 90	25, 83, 143, 153	0
1	E	735/777 (94%)	-1.27	0 100 100	24, 83, 142, 152	0
1	F	735/777 (94%)	-1.27	0 100 100	27, 83, 143, 154	0
2	O	146/149 (97%)	-1.23	0 100 100	22, 74, 121, 134	0
2	P	146/149 (97%)	-1.26	0 100 100	20, 75, 121, 135	0
2	Q	146/149 (97%)	-1.27	0 100 100	21, 75, 121, 134	0
2	R	146/149 (97%)	-1.23	0 100 100	20, 75, 120, 134	0
2	S	146/149 (97%)	-1.33	0 100 100	21, 76, 121, 134	0
2	T	146/149 (97%)	-1.23	1 (0%) 84 70	21, 75, 120, 134	0
All	All	5286/5556 (95%)	-1.26	5 (0%) 92 90	20, 80, 142, 154	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	207	ASP	3.4
1	C	162	ASN	3.0
2	T	25	GLY	2.5
1	C	455	TYR	2.4
1	A	416	ASN	2.2

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	MG	A	900	1/1	0.99	0.02	23,23,23,23	0
3	MG	B	901	1/1	1.00	0.01	16,16,16,16	0
3	MG	C	902	1/1	1.00	0.01	23,23,23,23	0
3	MG	D	903	1/1	1.00	0.02	21,21,21,21	0
3	MG	E	904	1/1	1.00	0.03	23,23,23,23	0
3	MG	F	905	1/1	1.00	0.03	17,17,17,17	0
4	CA	O	801	1/1	1.00	0.02	33,33,33,33	0
4	CA	O	802	1/1	1.00	0.01	33,33,33,33	0
4	CA	P	803	1/1	1.00	0.03	32,32,32,32	0
4	CA	P	804	1/1	1.00	0.02	34,34,34,34	0
4	CA	Q	805	1/1	1.00	0.03	29,29,29,29	0
4	CA	Q	806	1/1	1.00	0.01	35,35,35,35	0
4	CA	R	807	1/1	1.00	0.02	30,30,30,30	0
4	CA	R	808	1/1	1.00	0.01	36,36,36,36	0
4	CA	S	809	1/1	1.00	0.03	29,29,29,29	0
4	CA	S	810	1/1	1.00	0.01	40,40,40,40	0
4	CA	T	811	1/1	1.00	0.03	28,28,28,28	0
4	CA	T	812	1/1	1.00	0.02	35,35,35,35	0

6.5 Other polymers [i](#)

There are no such residues in this entry.