



Full wwPDB EM Validation Report ⓘ

Mar 12, 2026 – 07:23 PM UTC

PDB ID : 4BTG / pdb_00004btg
EMDB ID : EMD-2364
Title : Coordinates of the bacteriophage phi6 capsid subunits (P1A and P1B) fitted into the cryoEM reconstruction of the procapsid at 4.4 Å resolution
Authors : Nemecek, D.; Boura, E.; Wu, W.; Cheng, N.; Plevka, P.; Qiao, J.; Mindich, L.; Heymann, J.B.; Hurley, J.H.; Steven, A.C.
Deposited on : 2013-06-17
Resolution : 4.40 Å (reported)
Based on initial model : 4K7H

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

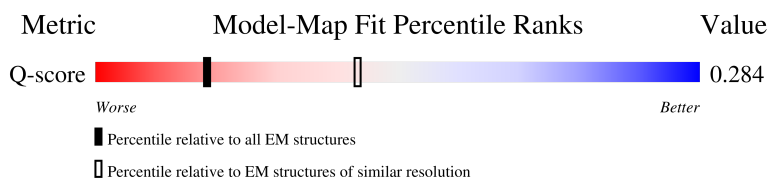
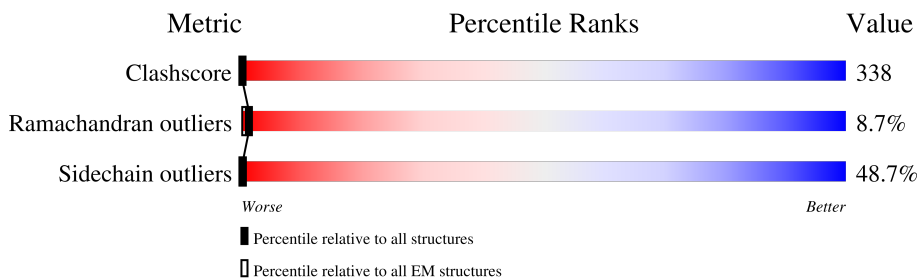
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	3132 (3.91 - 4.90)

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

Mol	Chain	Length	Quality of chain
1	A	761	
1	B	761	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 11840 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called MAJOR INNER PROTEIN P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	761	Total	C	N	O	S	0	0
			5920	3741	1048	1109	22		
1	B	761	Total	C	N	O	S	0	0
			5920	3741	1048	1109	22		

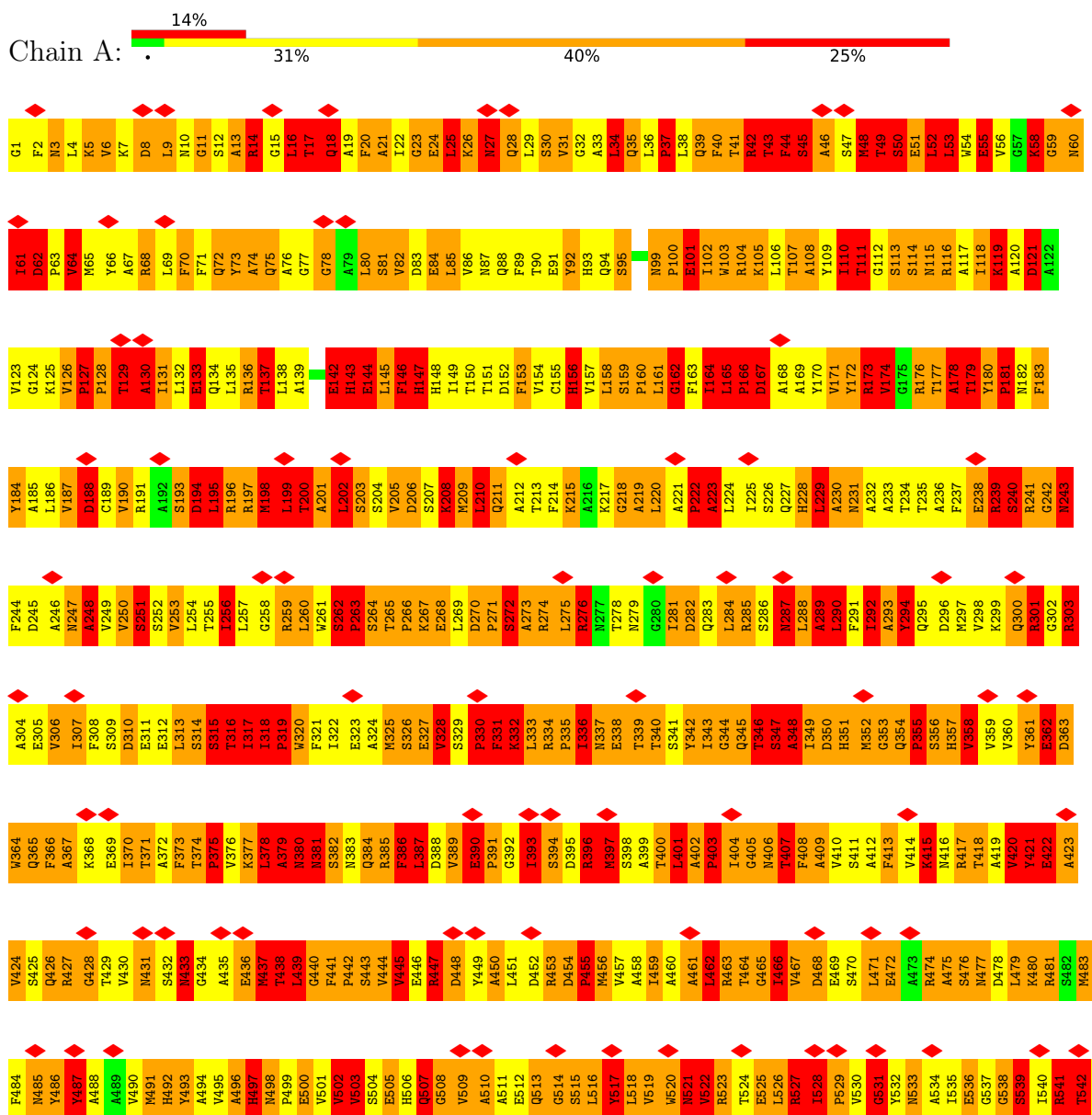
There are 2 discrepancies between the modelled and reference sequences:

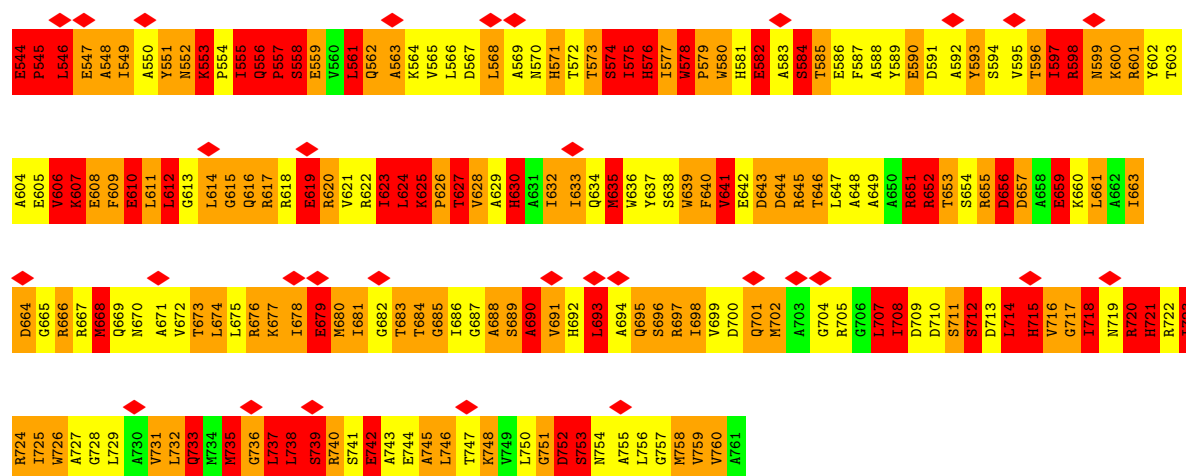
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP P11126
B	1	GLY	-	expression tag	UNP P11126

3 Residue-property plots

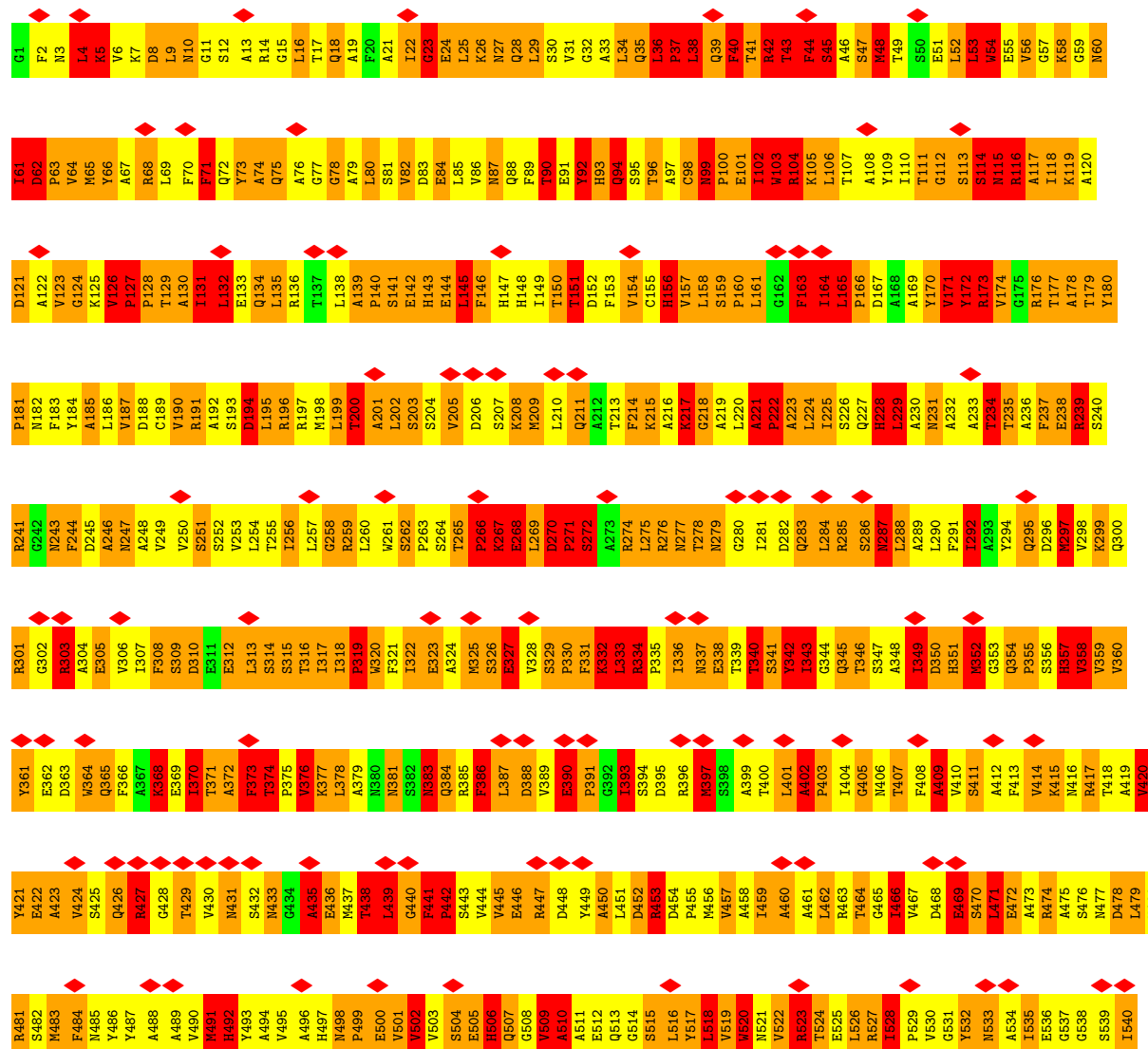
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: MAJOR INNER PROTEIN P1





• Molecule 1: MAJOR INNER PROTEIN P1



H721	R541	R601	L661	H726	R547	R607	L666	H729	R552	R613	L674	H730	R553	R614	L677	H731	R554	R615	L678	H732	R555	R616	H733	R556	R617	H734	R557	R618	H735	R558	R619	H736	R559	R620	H737	R560	R621	H738	R561	R622	H739	R562	R623	H740	R563	R624	H741	R564	R625	H742	R565	R626	H743	R566	R627	H744	R567	R628	H745	R568	R629	H746	R569	R630	H747	R570	R631	H748	R571	R632	H749	R572	R633	H750	R573	R634	H751	R574	R635	H752	R575	R636	H753	R576	R637	H754	R577	R638	H755	R578	R639	H756	R579	R640	H757	R580	R641	H758	R581	R642	H759	R582	R643	H760	R583	R644	H761	R584	R645	R585	R646	R586	R647	R587	R648	R588	R649	R589	R650	R590	R651	R591	R652	R592	R653	R593	R654	R594	R655	R595	R656	R596	R657	R597	R658	R598	R659	R599	R660	R600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
H722	T542	Y602	L662	H727	E548	E608	R667	L729	E549	E609	L675	A730	E550	E610	L676	V731	E551	E611	L677	V732	E552	E612	L678	Q733	E553	E613	L679	Q734	E554	E614	L680	Q735	E555	E615	L681	Q736	E556	E616	L682	Q737	E557	E617	L683	Q738	E558	E618	L684	Q739	E559	E619	L685	Q740	E560	E620	L686	Q741	E561	E621	L687	Q742	E562	E622	L688	Q743	E563	E623	L689	Q744	E564	E624	L690	Q745	E565	E625	L691	Q746	E566	E626	L692	Q747	E567	E627	L693	Q748	E568	E628	L694	Q749	E569	E629	L695	Q750	E570	E630	L696	Q751	E571	E631	L697	Q752	E572	E632	L698	Q753	E573	E633	L699	Q754	E574	E634	L700	Q755	E575	E635	L701	Q756	E576	E636	L702	Q757	E577	E637	L703	Q758	E578	E638	L704	Q759	E579	E639	L705	Q760	E580	E640	L706	Q761	E581	E641	L707	Q762	E582	E642	L708	Q763	E583	E643	L709	Q764	E584	E644	L710	Q765	E585	E645	L711	Q766	E586	E646	L712	Q767	E587	E647	L713	Q768	E588	E648	L714	Q769	E589	E649	L715	Q770	E590	E650	L716	Q771	E591	E651	L717	Q772	E592	E652	L718	Q773	E593	E653	L719	Q774	E594	E654	L720	Q775	E595	E655	L721	Q776	E596	E656	L722	Q777	E597	E657	L723	Q778	E598	E658	L724	Q779	E599	E659	L725	Q780	E600	E660	L726	Q781	E601	E661	L727	Q782	E602	E662	L728	Q783	E603	E663	L729	Q784	E604	E664	L730	Q785	E605	E665	L731	Q786	E606	E666	L732	Q787	E607	E667	L733	Q788	E608	E668	L734	Q789	E609	E669	L735	Q790	E610	E670	L736	Q791	E611	E671	L737	Q792	E612	E672	L738	Q793	E613	E673	L739	Q794	E614	E674	L740	Q795	E615	E675	L741	Q796	E616	E676	L742	Q797	E617	E677	L743	Q798	E618	E678	L744	Q799	E619	E679	L745	Q800	E620	E680	L746	Q801	E621	E681	L747	Q802	E622	E682	L748	Q803	E623	E683	L749	Q804	E624	E684	L750	Q805	E625	E685	L751	Q806	E626	E686	L752	Q807	E627	E687	L753	Q808	E628	E688	L754	Q809	E629	E689	L755	Q810	E630	E690	L756	Q811	E631	E691	L757	Q812	E632	E692	L758	Q813	E633	E693	L759	Q814	E634	E694	L760	Q815	E635	E695	L761	Q816	E636	E696	L762	Q817	E637	E697	L763	Q818	E638	E698	L764	Q819	E639	E699	L765	Q820	E640	E700	L766	Q821	E641	E701	L767	Q822	E642	E702	L768	Q823	E643	E703	L769	Q824	E644	E704	L770	Q825	E645	E705	L771	Q826	E646	E706	L772	Q827	E647	E707	L773	Q828	E648	E708	L774	Q829	E649	E709	L775	Q830	E650	E710	L776	Q831	E651	E711	L777	Q832	E652	E712	L778	Q833	E653	E713	L779	Q834	E654	E714	L780	Q835	E655	E715	L781	Q836	E656	E716	L782	Q837	E657	E717	L783	Q838	E658	E718	L784	Q839	E659	E719	L785	Q840	E660	E720	L786	Q841	E661	E721	L787	Q842	E662	E722	L788	Q843	E663	E723	L789	Q844	E664	E724	L790	Q845	E665	E725	L791	Q846	E666	E726	L792	Q847	E667	E727	L793	Q848	E668	E728	L794	Q849	E669	E729	L795	Q850	E670	E730	L796	Q851	E671	E731	L797	Q852	E672	E732	L798	Q853	E673	E733	L799	Q854	E674	E734	L800	Q855	E675	E735	L801	Q856	E676	E736	L802	Q857	E677	E737	L803	Q858	E678	E738	L804	Q859	E679	E739	L805	Q860	E680	E740	L806	Q861	E681	E741	L807	Q862	E682	E742	L808	Q863	E683	E743	L809	Q864	E684	E744	L810	Q865	E685	E745	L811	Q866	E686	E746	L812	Q867	E687	E747	L813	Q868	E688	E748	L814	Q869	E689	E749	L815	Q870	E690	E750	L816	Q871	E691	E751	L817	Q872	E692	E752	L818	Q873	E693	E753	L819	Q874	E694	E754	L820	Q875	E695	E755	L821	Q876	E696	E756	L822	Q877	E697	E757	L823	Q878	E698	E758	L824	Q879	E699	E759	L825	Q880	E700	E760	L826	Q881	E701	E761	L827	Q882	E702	E762	L828	Q883	E703	E763	L829	Q884	E704	E764	L830	Q885	E705	E765	L831	Q886	E706	E766	L832	Q887	E707	E767	L833	Q888	E708	E768	L834	Q889	E709	E769	L835	Q890	E710	E770	L836	Q891	E711	E771	L837	Q892	E712	E772	L838	Q893	E713	E773	L839	Q894	E714	E774	L840	Q895	E715	E775	L841	Q896	E716	E776	L842	Q897	E717	E777	L843	Q898	E718	E778	L844	Q899	E719	E779	L845	Q900	E720	E780	L846	Q901	E721	E781	L847	Q902	E722	E782	L848	Q903	E723	E783	L849	Q904	E724	E784	L850	Q905	E725	E785	L851	Q906	E726	E786	L852	Q907	E727	E787	L853	Q908	E728	E788	L854	Q909	E729	E789	L855	Q910	E730	E790	L856	Q911	E731	E791	L857	Q912	E732	E792	L858	Q913	E733	E793	L859	Q914	E734	E794	L860	Q915	E735	E795	L861	Q916	E736	E796	L862	Q917	E737	E797	L863	Q918	E738	E798	L864	Q919	E739	E799	L865	Q920	E740	E800	L866	Q921	E741	E801	L867	Q922	E742	E802	L868	Q923	E743	E803	L869	Q924	E744	E804	L870	Q925	E745	E805	L871	Q926	E746	E806	L872	Q927	E747	E807	L873	Q928	E748	E808	L874	Q929	E749	E809	L875	Q930	E750	E810	L876	Q931	E751	E811	L877	Q932	E752	E812	L878	Q933	E753	E813	L879	Q934	E754	E814	L880	Q935	E755	E815	L881	Q936	E756	E816	L882	Q937	E757	E817	L883	Q938	E758	E818	L884	Q939	E759	E819	L885	Q940	E760	E820	L886	Q941	E761	E821	L887	Q942	E762	E822	L888	Q943	E763	E823	L889	Q944	E764	E824	L890	Q945	E765	E825	L891	Q946	E766	E826	L892	Q947	E767	E827	L893	Q948	E768	E828	L894	Q949	E769	E829	L895	Q950	E770	E830	L896	Q951	E771	E831	L897	Q952	E772	E832	L898	Q953	E773	E833	L899	Q954	E774	E834	L900	Q955	E775	E835	L901	Q956	E776	E836	L902	Q957	E777	E837	L903	Q958	E778	E838	L904	Q959	E779	E839	L905	Q960	E780	E840	L906	Q961	E781	E841	L907	Q962	E782	E842	L908	Q963	E783	E843	L909	Q964	E784	E844	L910	Q965	E785	E845	L911	Q966	E786	E846	L912	Q967	E787	E847	L913	Q968	E788	E848	L914	Q969	E789	E849	L915	Q970	E790	E850	L916	Q971	E791	E851	L917	Q972	E792	E852	L918	Q973	E793	E853	L919	Q974	E794	E854	L920	Q975	E795	E855	L921	Q976	E796	E856	L922	Q977	E797	E857	L923	Q978	E798	E858	L924	Q979	E799	E859	L925	Q980	E800	E860	L926	Q981	E801	E861	L927	Q982	E802	E862	L928	Q983	E803	E863	L929	Q984	E804	E864	L930	Q985	E805	E865	L931	Q986	E806	E866	L932	Q987	E807	E867	L933	Q988	E808	E868	L934	Q989	E809	E869	L935	Q990	E810	E870	L936	Q991	E811	E871	L937	Q992	E812	E872	L938	Q993	E813	E873	L939	Q994	E814	E874	L940	Q995	E815	E875	L941	Q996	E816	E876	L942	Q997	E817	E877	L943	Q998	E818	E878	L944	Q999	E819	E879	L945	Q1000	E820	E880	L946	Q1001	E821	E881	L947	Q1002	E822	E882	L948	Q1003	E823	E883	L949	Q1004	E824	E884	L950	Q1005	E825	E885	L951	Q1006	E826	E886	L952	Q1007	E827	E887	L953	Q1008	E828	E888	L954	Q1009	E829	E889	L955	Q1010	E830	E890	L956	Q1011	E831	E891	L957	Q1012	E832	E892	L958	Q1013	E833	E893	L959	Q1014	E834	E894	L960	Q1015	E835	E895	L961	Q1016	E836	E896	L962	Q1017	E837	E897	L963	Q1018	E838	E898	L964	Q1019	E839	E899	L965	Q1020	E840	E900	L966	Q1021	E841	E901	L967	Q1022	E842	E902	L968	Q1023	E843	E903	L969	Q1024	E844	E904	L970	Q1025	E845	E905	L971	Q1026	E846	E906	L972	Q1027	E847	E907	L973	Q1028	E848	E908	L974	Q1029	E849	E909	L975	Q1030	E850	E910	L976	Q1031	E851	E911	L977	Q1032	E852	E912	L978	Q1033	E853	E913	L979	Q1034	E854	E914	L980	Q1035	E855	E915	L981	Q1036	E856	E916	L982	Q1037	E857	E917	L983	Q1038	E858	E918	L984	Q1039	E859	E919	L985	Q1040	E860	E920	L986	Q1041	E861	E921	L987	Q1042	E862	E922	L988	Q1043	E863	E923	L989	Q1044	E864	E924	L990	Q1045	E865	E925	L991	Q1046	E866	E926	L992	Q1047	E867	E927	L993	Q1048	E868	E928	L994	Q1049	E869	E929	L995	Q1050	E870	E930	L996	Q1051	E871	E931	L997	Q1052	E872	E932	L998	Q1053	E873	E933	L999	Q1054	E874	E934	L1000	Q1055	E875	E935	L1001	Q1056	E876	E936	L1002	Q1057	E877	E937	L1003	Q1058	E878	E938	L1004	Q1059	E879	E939	L1005	Q1060	E880	E940	L1006	Q1061	E881	E941	L100

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	18326	Depositor
Resolution determination method	Not provided	
CTF correction method	PARTICLES FROM EACH MICRO-GRAPH	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	15	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	44739	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	21.125	Depositor
Minimum map value	-8.041	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	586.74, 586.74, 586.74	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.397, 1.397, 1.397	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	1.85	128/6038 (2.1%)	2.27	402/8200 (4.9%)
1	B	1.58	61/6039 (1.0%)	1.99	284/8203 (3.5%)
All	All	1.72	189/12077 (1.6%)	2.13	686/16403 (4.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	67
1	B	0	45
All	All	0	112

All (189) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	127	PRO	C-N	74.32	1.91	1.33
1	A	466	ILE	C-N	-61.06	0.50	1.33
1	A	437	MET	C-N	19.50	1.61	1.33
1	A	75	GLN	CA-CB	-14.19	1.29	1.53
1	B	172	TYR	CA-C	12.97	1.70	1.53
1	B	435	ALA	C-O	-12.25	1.08	1.23
1	B	358	VAL	C-N	11.50	1.49	1.33
1	B	124	GLY	C-N	11.23	1.54	1.34
1	A	165	LEU	C-N	11.20	1.42	1.33
1	A	126	VAL	CA-C	10.80	1.64	1.52
1	B	268	GLU	C-N	10.69	1.48	1.33
1	A	390	GLU	C-N	-10.52	1.19	1.34
1	A	391	PRO	N-CA	-10.43	1.33	1.47
1	A	379	ALA	N-CA	-10.08	1.33	1.46
1	A	391	PRO	CA-C	-9.80	1.37	1.52
1	A	332	LYS	C-O	-9.75	1.11	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	114	SER	C-O	-9.71	1.11	1.24
1	B	267	LYS	C-N	9.31	1.46	1.33
1	A	406	ASN	CA-C	-9.25	1.40	1.52
1	B	374	THR	C-N	9.15	1.42	1.33
1	A	608	GLU	CA-C	-9.10	1.39	1.52
1	B	173	ARG	CA-C	9.05	1.65	1.52
1	A	402	ALA	CA-C	-8.71	1.41	1.52
1	B	173	ARG	N-CA	8.66	1.58	1.46
1	A	390	GLU	CA-C	-8.59	1.42	1.52
1	A	126	VAL	C-N	8.56	1.43	1.33
1	B	329	SER	C-N	8.36	1.40	1.33
1	A	53	LEU	CA-C	-8.35	1.42	1.52
1	A	528	ILE	C-N	8.23	1.40	1.33
1	A	259	ARG	C-N	-8.20	1.22	1.33
1	A	462	LEU	CA-C	-8.12	1.41	1.52
1	A	75	GLN	N-CA	-8.11	1.35	1.46
1	B	267	LYS	C-O	-8.05	1.13	1.24
1	A	396	ARG	CA-C	-7.94	1.41	1.52
1	B	116	ARG	C-N	7.93	1.44	1.33
1	B	94	GLN	N-CA	7.91	1.55	1.46
1	B	427	ARG	C-N	7.90	1.44	1.33
1	A	131	ILE	C-N	7.88	1.43	1.33
1	A	332	LYS	C-N	7.87	1.44	1.33
1	A	61	ILE	C-N	7.83	1.43	1.33
1	A	479	LEU	C-N	7.82	1.44	1.33
1	A	74	ALA	C-N	-7.81	1.23	1.34
1	A	520	TRP	N-CA	-7.71	1.36	1.46
1	A	172	TYR	CA-C	-7.69	1.42	1.52
1	A	497	HIS	N-CA	-7.56	1.36	1.46
1	B	4	LEU	C-N	7.52	1.44	1.33
1	A	399	ALA	CA-C	-7.45	1.43	1.52
1	B	173	ARG	CA-CB	7.43	1.64	1.53
1	A	454	ASP	C-N	7.38	1.40	1.33
1	A	44	PHE	C-N	7.33	1.43	1.33
1	A	129	THR	C-N	7.31	1.44	1.33
1	A	407	THR	CA-C	-7.29	1.43	1.52
1	A	336	ILE	CA-C	-7.18	1.42	1.52
1	B	318	ILE	C-N	7.17	1.40	1.33
1	A	681	ILE	CA-C	-7.14	1.44	1.52
1	B	268	GLU	CA-C	7.13	1.62	1.52
1	A	574	SER	C-N	-7.02	1.25	1.33
1	A	395	ASP	N-CA	-7.01	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	117	ALA	CA-C	7.00	1.62	1.52
1	A	16	LEU	CA-C	-7.00	1.43	1.52
1	B	435	ALA	C-N	6.87	1.42	1.33
1	A	201	ALA	N-CA	-6.84	1.37	1.46
1	A	240	SER	CA-C	-6.81	1.44	1.52
1	A	387	LEU	CA-C	6.79	1.60	1.52
1	A	378	LEU	CA-C	-6.76	1.43	1.52
1	A	199	LEU	CA-C	-6.72	1.44	1.52
1	B	38	LEU	CA-C	-6.71	1.44	1.52
1	A	294	TYR	N-CA	-6.69	1.38	1.46
1	A	733	GLN	CA-C	-6.68	1.46	1.53
1	A	378	LEU	C-N	-6.66	1.25	1.33
1	A	199	LEU	N-CA	-6.63	1.38	1.46
1	A	344	GLY	CA-C	-6.61	1.46	1.51
1	A	3	ASN	N-CA	-6.55	1.39	1.46
1	A	137	THR	CA-C	6.54	1.61	1.52
1	B	172	TYR	N-CA	6.48	1.53	1.45
1	A	116	ARG	CA-C	6.43	1.60	1.52
1	A	240	SER	N-CA	-6.39	1.38	1.45
1	B	747	THR	C-O	-6.38	1.16	1.24
1	A	52	LEU	CA-C	-6.37	1.44	1.52
1	A	99	ASN	C-N	6.37	1.41	1.34
1	A	520	TRP	C-O	-6.35	1.15	1.23
1	A	623	ILE	CA-C	-6.31	1.44	1.52
1	B	171	VAL	C-N	6.30	1.43	1.33
1	A	294	TYR	CA-C	6.28	1.60	1.52
1	A	156	HIS	N-CA	6.27	1.53	1.46
1	A	681	ILE	C-O	-6.23	1.17	1.24
1	A	111	THR	CA-C	-6.18	1.43	1.52
1	A	551	TYR	N-CA	-6.18	1.38	1.46
1	A	542	THR	C-N	6.17	1.48	1.33
1	A	368	LYS	N-CA	-6.17	1.38	1.46
1	A	282	ASP	CA-C	-6.16	1.44	1.52
1	B	171	VAL	CA-C	6.13	1.60	1.52
1	A	442	PRO	CA-C	-6.11	1.44	1.52
1	B	268	GLU	N-CA	6.10	1.54	1.46
1	A	265	THR	C-N	6.08	1.39	1.33
1	A	386	PHE	CA-C	-6.06	1.44	1.52
1	A	316	THR	CA-C	-6.02	1.45	1.52
1	A	335	PRO	N-CD	5.95	1.56	1.47
1	A	368	LYS	CA-C	-5.95	1.45	1.52
1	A	553	LYS	C-N	5.94	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	173	ARG	C-N	-5.92	1.25	1.33
1	A	179	THR	CA-C	5.90	1.60	1.52
1	A	496	ALA	CA-C	-5.89	1.45	1.52
1	B	94	GLN	C-O	5.89	1.31	1.24
1	B	199	LEU	CA-C	5.88	1.60	1.52
1	A	582	GLU	C-O	-5.87	1.16	1.24
1	B	642	GLU	C-O	5.87	1.30	1.24
1	B	99	ASN	C-N	5.86	1.40	1.34
1	B	334	ARG	C-N	5.79	1.40	1.33
1	B	114	SER	C-N	5.74	1.41	1.33
1	B	62	ASP	C-N	5.72	1.41	1.34
1	A	556	GLN	C-N	5.62	1.40	1.33
1	B	271	PRO	N-CD	5.61	1.55	1.47
1	B	626	PRO	N-CD	5.57	1.55	1.47
1	A	290	LEU	CA-C	-5.57	1.47	1.53
1	A	409	ALA	CA-C	-5.57	1.45	1.52
1	B	554	PRO	N-CD	5.56	1.55	1.47
1	A	491	MET	CA-C	-5.53	1.45	1.52
1	A	48	MET	CA-C	-5.53	1.45	1.53
1	A	248	ALA	CA-C	-5.52	1.45	1.52
1	A	517	TYR	C-O	-5.51	1.17	1.23
1	A	545	PRO	N-CD	5.51	1.55	1.47
1	B	63	PRO	N-CD	5.51	1.55	1.47
1	A	575	ILE	CA-C	5.49	1.59	1.52
1	A	53	LEU	N-CA	-5.47	1.38	1.45
1	B	131	ILE	C-N	-5.47	1.26	1.33
1	A	455	PRO	N-CD	5.45	1.55	1.47
1	B	139	ALA	C-N	5.45	1.40	1.33
1	B	166	PRO	N-CD	5.42	1.55	1.47
1	A	407	THR	N-CA	-5.41	1.39	1.46
1	A	270	ASP	C-N	5.39	1.40	1.33
1	B	140	PRO	N-CD	5.38	1.55	1.47
1	B	636	TRP	C-O	5.38	1.30	1.24
1	A	37	PRO	N-CD	5.38	1.55	1.47
1	B	266	PRO	N-CD	5.37	1.55	1.47
1	A	319	PRO	N-CD	5.35	1.55	1.47
1	A	529	PRO	N-CD	5.34	1.55	1.47
1	B	553	LYS	C-N	5.34	1.40	1.33
1	A	582	GLU	CA-C	-5.34	1.45	1.52
1	A	544	GLU	C-N	5.33	1.40	1.33
1	A	159	SER	C-N	5.33	1.41	1.34
1	B	442	PRO	N-CD	5.33	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	641	VAL	N-CA	-5.33	1.40	1.46
1	B	127	PRO	N-CD	5.32	1.55	1.47
1	A	75	GLN	CA-C	-5.31	1.45	1.52
1	A	223	ALA	N-CA	-5.30	1.39	1.46
1	B	373	PHE	CG-CD2	-5.30	1.27	1.38
1	A	557	PRO	N-CD	5.29	1.55	1.47
1	A	442	PRO	N-CD	5.29	1.55	1.47
1	A	131	ILE	N-CA	-5.28	1.40	1.46
1	A	385	ARG	CA-C	5.28	1.59	1.53
1	B	319	PRO	N-CD	5.28	1.55	1.47
1	A	397	MET	CA-C	-5.28	1.46	1.52
1	A	541	ARG	C-O	-5.28	1.18	1.24
1	A	391	PRO	N-CD	-5.27	1.40	1.47
1	A	401	LEU	N-CA	-5.27	1.39	1.46
1	A	102	ILE	CA-C	-5.26	1.46	1.52
1	A	390	GLU	N-CA	-5.25	1.38	1.46
1	A	720	ARG	C-O	-5.24	1.18	1.24
1	B	160	PRO	N-CD	5.24	1.55	1.47
1	A	126	VAL	CA-CB	5.24	1.60	1.54
1	B	224	LEU	CA-C	-5.22	1.47	1.53
1	B	499	PRO	N-CD	5.19	1.55	1.47
1	A	395	ASP	CA-C	-5.19	1.46	1.52
1	B	545	PRO	N-CD	5.19	1.55	1.47
1	A	370	ILE	CA-CB	-5.19	1.47	1.54
1	A	355	PRO	N-CD	5.18	1.55	1.47
1	B	648	ALA	C-O	5.17	1.30	1.24
1	A	42	ARG	N-CA	5.17	1.52	1.46
1	A	375	PRO	N-CD	5.17	1.54	1.47
1	B	237	PHE	N-CA	-5.17	1.40	1.46
1	A	160	PRO	N-CD	5.16	1.54	1.47
1	A	644	ASP	CA-C	-5.16	1.45	1.52
1	A	271	PRO	N-CD	5.16	1.54	1.47
1	A	643	ASP	C-N	-5.15	1.27	1.33
1	A	100	PRO	N-CD	5.15	1.54	1.47
1	A	330	PRO	N-CD	5.13	1.54	1.47
1	A	389	VAL	CA-C	-5.12	1.46	1.52
1	A	266	PRO	N-CD	5.11	1.54	1.47
1	A	184	TYR	N-CA	-5.09	1.40	1.46
1	A	696	SER	CA-C	-5.09	1.46	1.52
1	B	557	PRO	N-CD	5.08	1.54	1.47
1	B	37	PRO	N-CD	5.07	1.54	1.47
1	A	491	MET	N-CA	-5.06	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	562	GLN	N-CA	-5.05	1.39	1.46
1	A	139	ALA	C-N	5.04	1.40	1.33
1	A	82	VAL	CA-C	-5.01	1.46	1.52
1	B	391	PRO	N-CD	5.01	1.54	1.47
1	B	172	TYR	C-N	5.00	1.40	1.33

All (686) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	441	PHE	C-N-CD	-26.13	17.89	125.00
1	A	542	THR	CA-C-N	-22.22	89.63	120.96
1	A	542	THR	C-N-CA	-22.22	89.63	120.96
1	B	127	PRO	CA-C-N	-20.18	97.94	120.94
1	B	127	PRO	C-N-CA	-20.18	97.94	120.94
1	B	127	PRO	O-C-N	16.97	141.49	121.46
1	B	93	HIS	CA-C-N	16.61	142.53	120.28
1	B	93	HIS	C-N-CA	16.61	142.53	120.28
1	A	111	THR	N-CA-C	-16.57	93.14	113.02
1	A	223	ALA	N-CA-C	-15.97	93.36	113.16
1	A	438	THR	N-CA-C	15.20	132.33	113.17
1	B	94	GLN	N-CA-C	15.01	127.64	111.28
1	A	43	THR	N-CA-C	-14.96	86.32	109.65
1	B	624	LEU	N-CA-C	-14.63	88.36	110.30
1	B	386	PHE	O-C-N	-14.49	106.32	123.27
1	B	171	VAL	CA-C-O	-14.11	105.72	120.39
1	B	124	GLY	CA-C-N	-14.07	104.17	123.03
1	B	124	GLY	C-N-CA	-14.07	104.17	123.03
1	A	343	ILE	CA-C-N	-14.03	110.81	121.61
1	A	343	ILE	C-N-CA	-14.03	110.81	121.61
1	A	156	HIS	N-CA-C	13.98	126.52	111.28
1	B	199	LEU	N-CA-C	13.84	126.45	111.36
1	A	127	PRO	N-CA-C	13.77	127.50	110.70
1	B	523	ARG	N-CA-C	13.72	126.31	111.36
1	A	739	SER	O-C-N	-13.46	104.68	122.59
1	A	127	PRO	CA-C-N	13.11	134.26	119.32
1	A	127	PRO	C-N-CA	13.11	134.26	119.32
1	B	713	ASP	N-CA-C	-13.08	96.69	113.17
1	A	336	ILE	N-CA-C	13.06	125.24	111.00
1	A	137	THR	N-CA-C	13.05	125.03	111.07
1	A	578	TRP	CA-C-N	-13.04	106.26	119.56
1	A	578	TRP	C-N-CA	-13.04	106.26	119.56
1	A	173	ARG	N-CA-C	12.99	127.09	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	347	SER	N-CA-C	-12.74	89.83	109.96
1	A	179	THR	N-CA-C	12.64	125.06	111.28
1	A	640	PHE	N-CA-C	-12.64	97.18	111.71
1	A	316	THR	N-CA-C	-12.16	98.00	111.14
1	B	435	ALA	O-C-N	-12.04	106.98	123.11
1	B	524	THR	N-CA-C	11.96	124.31	111.28
1	A	147	HIS	O-C-N	-11.83	106.86	122.59
1	A	575	ILE	N-CA-C	11.78	126.70	108.44
1	B	574	SER	N-CA-C	11.55	124.99	111.71
1	B	5	LYS	O-C-N	-11.48	104.64	123.00
1	A	75	GLN	CA-CB-CG	-11.44	91.22	114.10
1	A	541	ARG	N-CA-C	11.43	123.30	111.07
1	A	287	ASN	N-CA-C	-11.42	99.38	113.20
1	A	290	LEU	N-CA-C	-11.31	94.96	110.68
1	A	75	GLN	N-CA-C	11.29	124.92	111.82
1	B	129	THR	N-CA-C	-11.26	98.98	111.14
1	B	171	VAL	CA-C-N	-11.17	102.46	122.12
1	B	171	VAL	C-N-CA	-11.17	102.46	122.12
1	B	726	TRP	N-CA-C	-11.06	99.19	111.14
1	A	551	TYR	O-C-N	11.03	133.81	122.12
1	A	240	SER	N-CA-C	-10.95	92.19	109.72
1	B	93	HIS	O-C-N	10.93	133.70	122.12
1	B	114	SER	O-C-N	-10.88	105.59	123.00
1	A	717	GLY	N-CA-C	-10.85	98.54	112.65
1	A	200	THR	O-C-N	10.77	134.82	122.22
1	A	45	SER	O-C-N	-10.74	105.81	123.00
1	A	199	LEU	N-CA-C	-10.61	99.40	110.97
1	B	652	ARG	CA-C-N	10.57	134.18	120.44
1	B	652	ARG	C-N-CA	10.57	134.18	120.44
1	A	74	ALA	CA-C-N	-10.54	104.29	120.31
1	A	74	ALA	C-N-CA	-10.54	104.29	120.31
1	A	82	VAL	CB-CA-C	-10.53	98.49	111.97
1	B	577	ILE	N-CA-C	10.53	122.41	107.88
1	A	437	MET	O-C-N	10.42	136.45	122.59
1	B	267	LYS	O-C-N	-10.42	108.19	122.46
1	A	396	ARG	N-CA-CB	10.39	127.63	110.39
1	B	402	ALA	CA-C-N	-10.37	107.54	119.05
1	B	402	ALA	C-N-CA	-10.37	107.54	119.05
1	A	397	MET	N-CA-C	-10.35	100.00	111.07
1	B	114	SER	CA-C-O	10.28	131.87	119.43
1	A	289	ALA	O-C-N	-10.28	108.92	122.59
1	B	439	LEU	N-CA-C	10.25	124.95	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	718	ILE	N-CA-C	10.12	120.94	110.72
1	A	165	LEU	N-CA-C	10.02	131.94	109.81
1	A	17	THR	N-CA-C	9.96	125.44	113.28
1	A	346	THR	N-CA-C	-9.93	94.25	109.24
1	A	685	GLY	N-CA-C	-9.88	100.23	112.68
1	A	466	ILE	CA-C-N	9.83	139.66	121.97
1	A	466	ILE	C-N-CA	9.83	139.66	121.97
1	A	294	TYR	CB-CA-C	9.81	127.07	110.79
1	A	131	ILE	N-CA-C	-9.80	101.32	110.53
1	A	273	ALA	N-CA-C	9.79	121.54	111.07
1	A	447	ARG	N-CA-C	9.76	121.52	111.07
1	A	129	THR	CA-C-N	-9.65	106.62	122.54
1	A	129	THR	C-N-CA	-9.65	106.62	122.54
1	A	476	SER	O-C-N	9.59	132.29	122.12
1	A	137	THR	CA-C-N	9.59	132.90	120.44
1	A	137	THR	C-N-CA	9.59	132.90	120.44
1	B	669	GLN	N-CA-C	-9.54	100.96	111.36
1	A	242	GLY	N-CA-C	9.45	127.20	114.92
1	B	581	HIS	N-CA-C	9.41	124.21	110.28
1	A	442	PRO	N-CA-C	-9.39	98.78	114.75
1	B	24	GLU	N-CA-C	9.32	124.25	113.15
1	A	131	ILE	CA-C-N	-9.30	107.98	120.54
1	A	131	ILE	C-N-CA	-9.30	107.98	120.54
1	A	718	ILE	N-CA-C	-9.27	101.16	110.62
1	B	74	ALA	N-CA-C	-9.23	100.91	110.97
1	A	332	LYS	O-C-N	-9.17	110.39	122.59
1	A	657	ASP	N-CA-C	9.15	120.86	111.07
1	B	753	SER	N-CA-C	9.14	123.31	108.41
1	A	746	LEU	N-CA-C	-9.13	101.02	110.97
1	A	465	GLY	N-CA-C	9.12	125.86	114.37
1	B	114	SER	N-CA-C	9.05	123.88	113.02
1	A	231	ASN	N-CA-C	-9.05	101.42	111.28
1	A	528	ILE	CB-CA-C	-8.99	101.41	110.13
1	B	707	LEU	CA-C-N	-8.98	105.91	120.64
1	B	707	LEU	C-N-CA	-8.98	105.91	120.64
1	A	42	ARG	N-CA-C	8.95	129.86	110.80
1	B	626	PRO	CA-N-CD	-8.91	99.52	112.00
1	A	466	ILE	O-C-N	-8.88	112.23	122.62
1	B	267	LYS	N-CA-C	8.87	124.23	113.23
1	B	423	ALA	N-CA-C	-8.84	96.04	108.23
1	A	714	LEU	CA-C-N	-8.80	109.00	120.44
1	A	714	LEU	C-N-CA	-8.80	109.00	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	678	ILE	N-CA-C	-8.76	102.01	110.42
1	B	234	THR	N-CA-C	-8.75	101.71	111.07
1	A	497	HIS	N-CA-C	-8.66	92.36	110.80
1	B	116	ARG	CA-C-N	-8.64	105.03	121.54
1	B	116	ARG	C-N-CA	-8.64	105.03	121.54
1	B	131	ILE	CA-C-N	-8.61	105.10	121.54
1	B	131	ILE	C-N-CA	-8.61	105.10	121.54
1	A	542	THR	C-N-CD	8.58	160.17	125.00
1	B	165	LEU	C-N-CD	8.58	139.47	120.60
1	A	528	ILE	N-CA-C	8.56	117.80	107.61
1	A	184	TYR	N-CA-C	-8.52	100.89	111.11
1	A	272	SER	CA-C-N	8.47	131.46	120.44
1	A	272	SER	C-N-CA	8.47	131.46	120.44
1	A	75	GLN	N-CA-CB	-8.47	97.16	110.28
1	A	379	ALA	N-CA-C	-8.44	95.42	108.76
1	B	478	ASP	N-CA-C	-8.35	102.26	111.36
1	B	580	TRP	N-CA-C	8.29	121.52	111.40
1	B	327	GLU	N-CA-C	8.28	121.39	109.71
1	A	301	ARG	N-CA-C	-8.25	97.08	109.86
1	A	752	ASP	O-C-N	8.21	132.98	122.39
1	B	124	GLY	O-C-N	8.17	133.31	122.70
1	A	331	PHE	CA-CB-CG	8.15	121.95	113.80
1	A	444	VAL	CB-CA-C	-8.03	103.81	111.44
1	A	303	ARG	N-CA-C	8.02	120.77	108.42
1	A	423	ALA	N-CA-C	-7.97	95.58	108.41
1	B	731	VAL	CA-C-N	7.90	130.71	120.44
1	B	731	VAL	C-N-CA	7.90	130.71	120.44
1	B	352	MET	N-CA-C	7.89	119.52	111.07
1	B	707	LEU	O-C-N	7.87	130.46	122.12
1	B	172	TYR	N-CA-C	7.87	122.05	109.86
1	B	258	GLY	N-CA-C	-7.84	103.16	112.64
1	B	694	ALA	O-C-N	-7.83	114.00	122.07
1	A	444	VAL	CA-C-N	-7.83	107.88	121.97
1	A	444	VAL	C-N-CA	-7.83	107.88	121.97
1	B	598	ARG	N-CA-C	-7.80	94.18	110.80
1	A	290	LEU	N-CA-CB	7.79	120.27	110.45
1	A	256	ILE	CB-CA-C	-7.78	101.64	112.14
1	B	115	ASN	N-CA-C	-7.76	102.76	111.07
1	A	78	GLY	N-CA-C	-7.66	103.54	112.73
1	A	551	TYR	CA-C-N	7.66	131.61	120.82
1	A	551	TYR	C-N-CA	7.66	131.61	120.82
1	A	576	HIS	N-CA-C	7.63	121.47	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	358	VAL	CA-CB-CG1	7.62	123.35	110.40
1	A	166	PRO	N-CA-C	7.61	124.43	114.68
1	A	403	PRO	N-CA-C	-7.60	103.61	114.18
1	A	607	LYS	CA-C-N	7.58	132.19	120.82
1	A	607	LYS	C-N-CA	7.58	132.19	120.82
1	A	371	THR	N-CA-C	7.57	120.67	109.24
1	B	38	LEU	N-CA-C	-7.56	98.20	108.86
1	A	552	ASN	O-C-N	7.54	132.30	122.95
1	B	334	ARG	CA-C-N	-7.53	112.58	120.03
1	B	334	ARG	C-N-CA	-7.53	112.58	120.03
1	A	321	PHE	N-CA-C	-7.53	98.31	109.15
1	B	172	TYR	CA-C-O	-7.51	112.11	121.50
1	A	542	THR	CA-CB-OG1	7.48	120.83	109.60
1	B	438	THR	CA-C-N	7.47	135.98	121.63
1	B	438	THR	C-N-CA	7.47	135.98	121.63
1	A	542	THR	O-C-N	7.45	134.92	123.00
1	A	556	GLN	CA-C-N	-7.44	111.78	120.11
1	A	556	GLN	C-N-CA	-7.44	111.78	120.11
1	A	598	ARG	CA-C-N	-7.42	111.93	125.66
1	A	598	ARG	C-N-CA	-7.42	111.93	125.66
1	B	268	GLU	O-C-N	7.37	132.40	122.59
1	B	103	TRP	CB-CA-C	-7.37	99.31	110.88
1	B	545	PRO	CA-C-N	-7.37	110.28	120.38
1	B	545	PRO	C-N-CA	-7.37	110.28	120.38
1	A	13	ALA	CA-C-N	7.34	135.57	121.54
1	A	13	ALA	C-N-CA	7.34	135.57	121.54
1	A	520	TRP	N-CA-CB	-7.33	98.36	110.53
1	B	104	ARG	CA-C-N	7.32	130.69	120.29
1	B	104	ARG	C-N-CA	7.32	130.69	120.29
1	B	199	LEU	CA-C-N	7.31	130.95	120.79
1	B	199	LEU	C-N-CA	7.31	130.95	120.79
1	A	290	LEU	CB-CG-CD1	-7.30	88.79	110.70
1	B	357	HIS	N-CA-C	-7.30	99.17	109.69
1	B	99	ASN	CA-C-N	-7.28	112.30	119.87
1	B	99	ASN	C-N-CA	-7.28	112.30	119.87
1	B	200	THR	O-C-N	7.27	129.86	122.08
1	A	306	VAL	CB-CA-C	-7.25	102.54	112.04
1	B	581	HIS	CA-C-N	7.25	135.39	121.54
1	B	581	HIS	C-N-CA	7.25	135.39	121.54
1	A	529	PRO	CA-C-O	7.24	126.56	118.38
1	A	394	SER	CB-CA-C	-7.23	99.53	110.88
1	B	237	PHE	N-CA-C	-7.21	103.11	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	401	LEU	CA-C-N	7.19	128.62	120.06
1	B	401	LEU	C-N-CA	7.19	128.62	120.06
1	A	725	ILE	N-CA-C	7.16	120.04	111.09
1	A	16	LEU	CB-CG-CD1	-7.16	89.22	110.70
1	B	123	VAL	N-CA-C	7.16	117.91	107.75
1	A	44	PHE	CB-CA-C	7.15	124.66	110.42
1	A	19	ALA	CA-C-N	7.15	129.85	120.28
1	A	19	ALA	C-N-CA	7.15	129.85	120.28
1	A	127	PRO	CB-CA-C	-7.14	102.20	110.92
1	B	194	ASP	N-CA-C	7.08	118.99	111.28
1	B	492	HIS	N-CA-CB	7.08	121.36	110.46
1	A	333	LEU	N-CA-C	7.07	119.98	109.59
1	A	362	GLU	N-CA-C	7.06	125.84	110.80
1	B	420	VAL	CA-C-N	7.06	129.74	120.28
1	B	420	VAL	C-N-CA	7.06	129.74	120.28
1	A	510	ALA	N-CA-C	-7.05	95.78	110.80
1	A	742	GLU	N-CA-C	-7.05	103.59	111.28
1	A	172	TYR	N-CA-C	-7.05	97.13	108.55
1	B	710	ASP	N-CA-C	-7.04	99.01	109.15
1	A	16	LEU	CB-CA-C	-7.03	97.62	110.63
1	A	472	GLU	N-CA-C	-7.00	97.64	108.42
1	B	228	HIS	N-CA-C	-6.99	103.59	111.14
1	A	320	TRP	N-CA-C	6.98	118.97	111.36
1	A	615	GLY	N-CA-C	6.97	121.02	111.54
1	A	553	LYS	CA-C-N	-6.93	111.77	118.97
1	A	553	LYS	C-N-CA	-6.93	111.77	118.97
1	A	683	THR	N-CA-C	-6.93	100.55	110.59
1	A	262	SER	N-CA-CB	-6.92	98.05	110.37
1	B	287	ASN	CB-CA-C	-6.92	99.45	109.84
1	A	139	ALA	CA-C-N	-6.91	112.87	119.85
1	A	139	ALA	C-N-CA	-6.91	112.87	119.85
1	A	310	ASP	N-CA-C	-6.90	96.11	110.80
1	A	406	ASN	N-CA-CB	6.90	120.37	110.16
1	B	292	ILE	CB-CA-C	-6.89	103.15	111.97
1	A	752	ASP	CA-C-N	6.87	132.23	123.03
1	A	752	ASP	C-N-CA	6.87	132.23	123.03
1	B	71	PHE	N-CA-C	-6.86	103.73	111.14
1	B	518	LEU	N-CA-C	6.86	120.35	108.76
1	A	561	LEU	N-CA-C	6.85	120.16	110.50
1	A	59	GLY	N-CA-C	6.84	120.94	112.73
1	B	40	PHE	N-CA-C	6.84	120.80	108.69
1	B	223	ALA	N-CA-C	-6.84	104.88	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	44	PHE	CA-C-N	-6.83	108.55	121.66
1	A	44	PHE	C-N-CA	-6.83	108.55	121.66
1	A	516	LEU	N-CA-C	6.82	120.09	109.52
1	A	665	GLY	N-CA-C	-6.80	104.26	112.49
1	A	612	LEU	N-CA-C	-6.80	103.80	111.14
1	A	688	ALA	N-CA-C	-6.79	103.11	111.33
1	B	246	ALA	N-CA-C	-6.75	103.92	111.28
1	A	130	ALA	N-CA-CB	6.75	120.48	110.49
1	A	715	HIS	N-CA-C	-6.72	103.88	111.07
1	A	378	LEU	CA-C-O	6.72	126.29	118.90
1	B	500	GLU	N-CA-C	-6.72	100.49	110.23
1	A	265	THR	CA-C-N	-6.71	113.00	120.45
1	A	265	THR	C-N-CA	-6.71	113.00	120.45
1	A	247	ASN	N-CA-C	-6.70	103.45	111.69
1	B	697	ARG	N-CA-C	-6.70	103.98	111.28
1	A	679	GLU	N-CA-CB	6.68	119.90	109.94
1	A	262	SER	C-N-CD	-6.68	97.63	125.00
1	A	270	ASP	CA-C-N	-6.67	112.91	119.78
1	A	270	ASP	C-N-CA	-6.67	112.91	119.78
1	A	444	VAL	CA-C-O	6.67	127.13	120.73
1	A	679	GLU	CA-CB-CG	6.65	127.39	114.10
1	A	441	PHE	CA-C-N	-6.64	113.37	120.47
1	A	441	PHE	C-N-CA	-6.64	113.37	120.47
1	B	358	VAL	CB-CA-C	-6.63	100.42	111.29
1	B	510	ALA	N-CA-C	-6.63	103.98	111.07
1	B	44	PHE	N-CA-C	6.62	120.07	110.28
1	A	558	SER	N-CA-C	-6.60	96.74	110.80
1	A	174	VAL	CB-CA-C	-6.60	104.33	111.59
1	A	514	GLY	N-CA-C	-6.59	97.55	113.18
1	B	139	ALA	CA-C-N	-6.59	113.17	119.76
1	B	139	ALA	C-N-CA	-6.59	113.17	119.76
1	A	62	ASP	CA-C-N	-6.58	111.62	119.84
1	A	62	ASP	C-N-CA	-6.58	111.62	119.84
1	B	331	PHE	N-CA-C	-6.57	101.67	110.55
1	A	738	LEU	CB-CA-C	-6.57	108.30	117.23
1	A	116	ARG	O-C-N	-6.56	116.13	123.48
1	B	409	ALA	CA-C-N	6.56	129.45	120.46
1	B	409	ALA	C-N-CA	6.56	129.45	120.46
1	A	30	SER	N-CA-C	-6.55	98.31	108.00
1	B	93	HIS	CA-C-O	-6.54	113.62	120.55
1	B	185	ALA	N-CA-C	-6.54	104.16	111.28
1	B	221	ALA	C-N-CD	-6.52	98.27	125.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	681	ILE	N-CA-C	-6.51	104.41	110.53
1	B	265	THR	CA-C-N	-6.50	113.08	119.78
1	B	265	THR	C-N-CA	-6.50	113.08	119.78
1	A	111	THR	CA-C-O	6.49	127.29	119.43
1	B	466	ILE	N-CA-C	-6.49	99.03	108.71
1	A	45	SER	N-CA-C	6.49	119.31	110.35
1	B	491	MET	CA-C-N	-6.49	109.34	122.31
1	B	491	MET	C-N-CA	-6.49	109.34	122.31
1	B	318	ILE	CA-C-N	-6.48	113.26	120.45
1	B	318	ILE	C-N-CA	-6.48	113.26	120.45
1	A	520	TRP	N-CA-C	-6.47	95.02	107.57
1	B	607	LYS	N-CA-C	-6.47	97.03	110.80
1	B	350	ASP	N-CA-C	-6.45	105.71	112.93
1	A	476	SER	CA-C-N	-6.43	109.25	121.54
1	A	476	SER	C-N-CA	-6.43	109.25	121.54
1	B	23	GLY	O-C-N	-6.42	114.35	122.70
1	A	393	ILE	N-CA-C	6.40	117.15	110.62
1	A	167	ASP	N-CA-C	6.40	126.36	113.31
1	A	539	SER	N-CA-C	6.39	117.88	108.86
1	B	343	ILE	CB-CA-C	-6.39	99.39	110.65
1	A	331	PHE	N-CA-CB	6.38	121.27	110.49
1	A	508	GLY	N-CA-C	6.38	120.88	111.76
1	A	128	PRO	N-CA-C	6.36	123.23	113.75
1	A	439	LEU	N-CA-CB	-6.36	100.78	110.77
1	A	521	ASN	N-CA-C	6.36	120.68	111.02
1	A	576	HIS	CB-CA-C	-6.35	99.99	109.90
1	A	25	LEU	N-CA-C	-6.35	104.28	111.14
1	A	709	ASP	N-CA-C	-6.35	104.41	111.71
1	B	354	GLN	C-N-CD	-6.34	99.00	125.00
1	A	541	ARG	CA-C-O	-6.34	114.17	120.82
1	B	699	VAL	N-CA-C	-6.34	104.16	110.62
1	B	749	VAL	N-CA-C	6.34	117.08	110.62
1	A	102	ILE	N-CA-C	-6.33	96.17	109.34
1	B	241	ARG	N-CA-C	-6.33	105.21	113.12
1	A	630	HIS	N-CA-C	-6.33	104.30	111.07
1	B	127	PRO	C-N-CD	6.32	150.91	125.00
1	B	460	ALA	N-CA-C	-6.32	104.39	111.28
1	A	353	GLY	CA-C-N	6.30	127.97	120.09
1	A	353	GLY	C-N-CA	6.30	127.97	120.09
1	A	508	GLY	CA-C-N	-6.30	110.47	120.55
1	A	508	GLY	C-N-CA	-6.30	110.47	120.55
1	A	548	ALA	N-CA-C	-6.29	104.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	92	TYR	CA-C-O	6.29	127.21	120.55
1	A	436	GLU	N-CA-C	-6.27	104.45	111.28
1	A	421	TYR	N-CA-C	6.27	118.11	111.28
1	A	162	GLY	O-C-N	6.26	130.83	122.70
1	A	707	LEU	N-CA-C	6.25	119.69	107.57
1	B	95	SER	N-CA-C	-6.25	97.65	108.52
1	B	329	SER	CA-C-N	-6.24	113.83	120.94
1	B	329	SER	C-N-CA	-6.24	113.83	120.94
1	A	745	ALA	N-CA-C	-6.24	104.39	111.07
1	B	239	ARG	N-CA-C	-6.24	104.48	111.28
1	B	634	GLN	N-CA-C	-6.22	104.50	111.28
1	A	166	PRO	CA-N-CD	-6.22	103.29	112.00
1	A	625	LYS	N-CA-C	-6.22	96.06	109.81
1	A	317	ILE	CA-C-N	6.22	125.30	120.33
1	A	317	ILE	C-N-CA	6.22	125.30	120.33
1	A	541	ARG	CA-C-N	6.21	132.88	121.70
1	A	541	ARG	C-N-CA	6.21	132.88	121.70
1	A	487	TYR	N-CA-C	-6.20	104.52	111.28
1	A	454	ASP	CA-C-N	-6.20	113.57	120.45
1	A	454	ASP	C-N-CA	-6.20	113.57	120.45
1	B	751	GLY	N-CA-C	-6.20	105.29	112.73
1	A	114	SER	N-CA-C	-6.20	99.09	108.52
1	A	53	LEU	N-CA-C	-6.20	99.89	109.24
1	A	318	ILE	N-CA-C	-6.19	104.92	112.35
1	A	420	VAL	N-CA-C	-6.19	103.31	111.05
1	B	570	ASN	N-CA-C	-6.19	104.45	111.07
1	A	46	ALA	N-CA-C	-6.18	99.16	109.24
1	A	450	ALA	N-CA-C	-6.18	105.01	112.54
1	A	13	ALA	N-CA-C	-6.17	105.81	113.15
1	B	371	THR	N-CA-C	6.17	118.96	108.90
1	B	10	ASN	N-CA-C	6.16	119.64	111.75
1	B	630	HIS	N-CA-C	-6.16	104.57	111.28
1	A	422	GLU	N-CA-C	-6.14	104.58	111.28
1	A	497	HIS	N-CA-CB	-6.14	100.12	110.49
1	B	343	ILE	N-CA-C	6.14	116.68	108.27
1	A	626	PRO	CA-N-CD	-6.12	103.44	112.00
1	A	751	GLY	N-CA-C	-6.11	105.42	112.50
1	A	653	THR	CA-C-N	-6.10	112.84	122.79
1	A	653	THR	C-N-CA	-6.10	112.84	122.79
1	A	639	TRP	CA-C-N	-6.10	111.50	120.28
1	A	639	TRP	C-N-CA	-6.10	111.50	120.28
1	B	625	LYS	N-CA-C	6.09	122.84	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	317	ILE	N-CA-C	6.09	122.00	109.34
1	A	266	PRO	N-CA-C	-6.06	106.77	114.35
1	A	272	SER	N-CA-C	6.06	118.28	109.07
1	A	294	TYR	N-CA-C	-6.06	104.68	111.28
1	A	461	ALA	N-CA-C	-6.05	104.61	111.14
1	A	344	GLY	O-C-N	6.03	128.68	123.37
1	B	453	ARG	N-CA-C	-6.03	104.27	111.69
1	A	392	GLY	CA-C-N	6.00	128.69	120.46
1	A	392	GLY	C-N-CA	6.00	128.69	120.46
1	B	178	ALA	O-C-N	-6.00	116.07	123.33
1	B	247	ASN	N-CA-C	-6.00	104.74	111.28
1	A	563	ALA	N-CA-C	-5.99	103.04	110.41
1	A	336	ILE	CA-C-N	-5.98	111.91	122.26
1	A	336	ILE	C-N-CA	-5.98	111.91	122.26
1	B	268	GLU	CA-C-O	5.98	129.06	120.51
1	B	218	GLY	N-CA-C	5.98	120.42	112.77
1	A	693	LEU	N-CA-C	-5.97	104.68	111.07
1	B	583	ALA	N-CA-C	5.96	123.51	110.80
1	A	318	ILE	O-C-N	5.96	124.23	120.42
1	A	428	GLY	N-CA-C	5.96	119.88	112.73
1	A	726	TRP	N-CA-C	-5.96	104.91	111.82
1	B	130	ALA	N-CA-C	-5.96	104.79	111.28
1	A	116	ARG	CA-C-N	5.95	132.42	121.70
1	A	116	ARG	C-N-CA	5.95	132.42	121.70
1	A	579	PRO	CA-C-N	5.95	130.93	120.87
1	A	579	PRO	C-N-CA	5.95	130.93	120.87
1	B	224	LEU	CA-C-N	5.95	129.88	120.47
1	B	224	LEU	C-N-CA	5.95	129.88	120.47
1	A	561	LEU	O-C-N	5.95	129.88	122.86
1	B	202	LEU	N-CA-C	-5.94	104.81	111.28
1	A	315	SER	CA-C-N	5.93	128.51	120.44
1	A	315	SER	C-N-CA	5.93	128.51	120.44
1	B	759	VAL	N-CA-C	-5.93	99.75	108.23
1	B	665	GLY	CA-C-O	-5.93	114.59	121.00
1	A	290	LEU	CB-CG-CD2	5.93	128.48	110.70
1	B	102	ILE	N-CA-CB	5.92	118.59	110.54
1	B	132	LEU	CB-CG-CD2	-5.91	92.98	110.70
1	B	332	LYS	CA-C-N	-5.91	113.86	122.19
1	B	332	LYS	C-N-CA	-5.91	113.86	122.19
1	A	364	TRP	N-CA-C	5.90	118.84	108.75
1	A	118	ILE	CA-C-N	5.89	132.80	121.54
1	A	118	ILE	C-N-CA	5.89	132.80	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	743	ALA	N-CA-C	-5.89	104.86	111.28
1	A	35	GLN	N-CA-C	5.87	123.30	110.80
1	A	243	ASN	N-CA-C	5.86	117.99	108.08
1	A	528	ILE	CA-C-N	-5.86	113.94	121.04
1	A	528	ILE	C-N-CA	-5.86	113.94	121.04
1	B	126	VAL	O-C-N	5.86	127.78	121.10
1	A	369	GLU	N-CA-C	5.86	118.85	110.24
1	A	55	GLU	CB-CA-C	-5.86	100.44	110.22
1	A	523	ARG	N-CA-C	-5.85	100.61	108.86
1	A	103	TRP	N-CA-C	-5.84	106.49	113.97
1	B	173	ARG	N-CA-C	5.84	117.48	109.18
1	B	131	ILE	N-CA-CB	5.83	117.38	110.55
1	B	436	GLU	N-CA-C	5.83	117.90	108.34
1	A	127	PRO	CA-N-CD	-5.83	103.84	112.00
1	B	632	ILE	N-CA-C	-5.82	104.69	110.62
1	A	165	LEU	CA-C-N	-5.79	114.33	120.94
1	A	165	LEU	C-N-CA	-5.79	114.33	120.94
1	A	736	GLY	N-CA-C	-5.79	108.30	114.67
1	B	159	SER	CA-C-N	-5.79	112.91	119.28
1	B	159	SER	C-N-CA	-5.79	112.91	119.28
1	B	700	ASP	N-CA-C	-5.79	104.97	111.28
1	A	635	MET	N-CA-C	-5.78	104.97	111.28
1	B	106	LEU	N-CA-C	-5.78	98.49	110.80
1	A	390	GLU	N-CA-C	-5.77	97.06	109.81
1	B	141	SER	N-CA-C	5.76	120.13	109.24
1	A	317	ILE	N-CA-C	-5.76	104.91	110.72
1	B	572	THR	N-CA-C	-5.76	104.86	112.34
1	A	723	ILE	CB-CA-C	-5.75	104.48	112.02
1	A	708	ILE	N-CA-C	5.75	119.42	112.80
1	B	267	LYS	N-CA-CB	-5.75	101.47	110.44
1	A	143	HIS	N-CA-C	-5.73	97.63	107.61
1	A	625	LYS	CA-C-N	-5.72	113.89	119.78
1	A	625	LYS	C-N-CA	-5.72	113.89	119.78
1	A	198	MET	O-C-N	5.71	130.19	122.59
1	B	320	TRP	CB-CA-C	-5.71	101.92	110.88
1	B	717	GLY	N-CA-C	-5.71	105.47	112.77
1	B	154	VAL	N-CA-C	-5.70	104.80	110.62
1	B	646	THR	CB-CA-C	-5.70	101.93	110.88
1	A	194	ASP	N-CA-C	-5.69	105.16	111.36
1	B	643	ASP	N-CA-CB	5.69	118.48	110.12
1	A	153	PHE	N-CA-C	-5.68	105.09	111.28
1	A	285	ARG	N-CA-C	-5.67	105.09	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	58	LYS	CA-C-N	5.67	126.27	119.98
1	A	58	LYS	C-N-CA	5.67	126.27	119.98
1	B	142	GLU	N-CA-C	-5.66	105.11	111.28
1	B	330	PRO	N-CA-C	-5.66	107.44	114.68
1	A	400	THR	CA-C-O	5.66	126.76	120.82
1	B	217	LYS	CA-C-N	5.66	126.22	120.00
1	B	217	LYS	C-N-CA	5.66	126.22	120.00
1	A	479	LEU	CA-CB-CG	-5.65	96.52	116.30
1	A	102	ILE	O-C-N	5.65	129.63	122.57
1	A	610	GLU	CA-C-N	-5.65	113.10	120.44
1	A	610	GLU	C-N-CA	-5.65	113.10	120.44
1	B	373	PHE	CZ-CE2-CD2	5.65	130.17	120.00
1	A	397	MET	CA-C-N	5.64	127.84	120.28
1	A	397	MET	C-N-CA	5.64	127.84	120.28
1	A	551	TYR	N-CA-C	-5.64	105.13	111.28
1	B	271	PRO	CA-N-CD	-5.64	104.10	112.00
1	B	735	MET	N-CA-C	-5.64	104.53	111.75
1	B	90	THR	CA-C-N	5.64	127.84	120.28
1	B	90	THR	C-N-CA	5.64	127.84	120.28
1	B	528	ILE	N-CA-C	-5.63	101.41	108.05
1	A	126	VAL	N-CA-C	5.63	121.03	108.88
1	A	268	GLU	CB-CA-C	-5.62	102.06	110.88
1	A	102	ILE	CA-C-N	5.60	131.29	122.11
1	A	102	ILE	C-N-CA	5.60	131.29	122.11
1	B	330	PRO	CA-N-CD	-5.59	104.17	112.00
1	A	337	ASN	CB-CA-C	5.59	119.38	109.65
1	A	509	VAL	N-CA-C	-5.58	104.91	111.00
1	A	731	VAL	N-CA-C	-5.58	105.08	110.72
1	B	286	SER	N-CA-C	-5.58	105.20	111.28
1	B	96	THR	N-CA-C	5.58	122.68	110.80
1	B	41	THR	N-CA-C	-5.58	107.02	113.88
1	B	297	MET	CB-CG-SD	-5.57	95.98	112.70
1	B	171	VAL	CB-CA-C	5.57	118.68	110.77
1	A	62	ASP	N-CA-C	-5.57	100.51	109.58
1	B	163	PHE	CA-C-N	5.55	131.69	121.70
1	B	163	PHE	C-N-CA	5.55	131.69	121.70
1	A	737	LEU	CA-C-N	5.55	131.14	123.04
1	A	737	LEU	C-N-CA	5.55	131.14	123.04
1	A	624	LEU	N-CA-C	-5.54	103.21	110.53
1	A	685	GLY	CA-C-O	-5.54	117.80	122.29
1	A	555	ILE	CB-CA-C	5.54	120.37	111.29
1	A	251	SER	N-CA-CB	-5.54	101.13	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	552	ASN	N-CA-C	-5.54	101.85	110.10
1	A	404	ILE	CB-CA-C	5.53	120.74	112.16
1	B	459	ILE	N-CA-C	5.53	116.26	110.62
1	A	133	GLU	CA-C-N	-5.52	112.81	120.38
1	A	133	GLU	C-N-CA	-5.52	112.81	120.38
1	A	627	THR	CA-C-O	5.52	128.41	120.51
1	B	112	GLY	N-CA-C	-5.52	97.29	113.30
1	A	282	ASP	CA-C-N	-5.52	112.39	122.38
1	A	282	ASP	C-N-CA	-5.52	112.39	122.38
1	B	272	SER	N-CA-C	5.51	118.44	110.28
1	A	370	ILE	CB-CA-C	-5.51	102.26	111.29
1	A	479	LEU	N-CA-C	-5.50	105.38	111.71
1	A	202	LEU	N-CA-C	-5.49	105.29	111.28
1	B	104	ARG	N-CA-C	-5.49	105.20	111.07
1	B	54	TRP	N-CA-C	5.48	117.34	108.41
1	B	117	ALA	N-CA-C	5.47	122.45	110.80
1	A	259	ARG	O-C-N	-5.47	115.32	122.59
1	B	297	MET	CG-SD-CE	-5.47	88.87	100.90
1	A	178	ALA	CA-C-N	5.46	127.60	120.28
1	A	178	ALA	C-N-CA	5.46	127.60	120.28
1	B	623	ILE	N-CA-C	5.46	120.70	109.34
1	A	263	PRO	CA-C-N	5.46	129.10	121.02
1	A	263	PRO	C-N-CA	5.46	129.10	121.02
1	B	469	GLU	N-CA-C	5.45	118.95	111.54
1	B	748	LYS	N-CA-C	-5.45	105.24	111.07
1	A	393	ILE	CA-C-N	5.45	127.53	120.44
1	A	393	ILE	C-N-CA	5.45	127.53	120.44
1	A	546	LEU	N-CA-C	5.45	122.41	110.80
1	A	479	LEU	O-C-N	5.45	128.59	122.22
1	A	652	ARG	N-CA-C	5.45	117.22	111.28
1	A	218	GLY	CA-C-N	5.44	131.50	121.70
1	A	218	GLY	C-N-CA	5.44	131.50	121.70
1	B	554	PRO	N-CA-C	5.44	119.86	111.21
1	A	547	GLU	N-CA-C	-5.44	105.45	111.71
1	A	619	GLU	N-CA-C	5.44	117.02	111.14
1	B	368	LYS	N-CA-C	-5.43	106.03	113.30
1	A	492	HIS	N-CA-C	5.42	117.19	111.28
1	B	100	PRO	N-CA-C	-5.42	107.36	114.03
1	A	164	ILE	CB-CA-C	5.42	117.73	110.42
1	B	374	THR	CA-C-N	-5.42	112.50	120.46
1	B	374	THR	C-N-CA	-5.42	112.50	120.46
1	A	121	ASP	N-CA-C	-5.41	103.76	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	439	LEU	N-CA-C	5.41	117.21	108.34
1	A	159	SER	CA-C-N	-5.41	113.05	119.05
1	A	159	SER	C-N-CA	-5.41	113.05	119.05
1	A	368	LYS	N-CA-C	-5.40	105.47	111.36
1	B	509	VAL	CA-C-N	-5.40	113.42	120.44
1	B	509	VAL	C-N-CA	-5.40	113.42	120.44
1	B	165	LEU	CA-C-N	-5.39	114.06	127.00
1	B	165	LEU	C-N-CA	-5.39	114.06	127.00
1	B	684	THR	N-CA-CB	-5.39	102.65	110.36
1	B	53	LEU	CA-C-N	5.39	130.60	123.00
1	B	53	LEU	C-N-CA	5.39	130.60	123.00
1	B	733	GLN	N-CA-C	5.39	118.24	109.24
1	B	390	GLU	CA-C-N	-5.39	113.11	119.84
1	B	390	GLU	C-N-CA	-5.39	113.11	119.84
1	B	578	TRP	CA-C-N	-5.38	113.12	119.84
1	B	578	TRP	C-N-CA	-5.38	113.12	119.84
1	A	137	THR	CB-CA-C	-5.37	102.44	110.88
1	A	176	ARG	N-CA-C	5.37	117.47	108.23
1	A	406	ASN	CA-C-N	-5.37	111.32	121.63
1	A	406	ASN	C-N-CA	-5.37	111.32	121.63
1	B	64	VAL	N-CA-C	5.36	116.09	110.62
1	B	520	TRP	N-CA-C	5.36	117.33	109.24
1	B	181	PRO	CA-N-CD	-5.35	104.51	112.00
1	A	406	ASN	CB-CA-C	-5.34	101.77	110.85
1	A	668	MET	CB-CG-SD	-5.34	96.68	112.70
1	B	246	ALA	CA-C-N	-5.34	113.12	120.28
1	B	246	ALA	C-N-CA	-5.34	113.12	120.28
1	B	173	ARG	CA-CB-CG	5.34	124.78	114.10
1	A	610	GLU	N-CA-C	5.34	117.18	111.36
1	B	553	LYS	N-CA-C	5.33	118.77	109.82
1	A	370	ILE	N-CA-CB	5.33	120.02	111.23
1	A	188	ASP	N-CA-C	-5.33	105.48	111.28
1	B	731	VAL	N-CA-C	-5.33	105.19	110.62
1	B	299	LYS	N-CA-C	-5.32	105.48	111.28
1	A	531	GLY	N-CA-C	5.32	125.79	113.18
1	B	411	SER	N-CA-C	-5.32	105.48	111.28
1	B	556	GLN	CA-C-N	-5.32	113.19	119.84
1	B	556	GLN	C-N-CA	-5.32	113.19	119.84
1	B	520	TRP	CA-C-N	-5.32	115.70	122.77
1	B	520	TRP	C-N-CA	-5.32	115.70	122.77
1	B	673	THR	N-CA-C	-5.31	105.57	111.36
1	B	172	TYR	O-C-N	-5.31	115.04	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	427	ARG	CA-C-N	-5.31	112.15	121.70
1	B	427	ARG	C-N-CA	-5.31	112.15	121.70
1	A	343	ILE	O-C-N	5.30	129.20	122.57
1	A	689	SER	N-CA-C	-5.30	105.50	111.28
1	B	405	GLY	N-CA-C	-5.30	106.37	112.73
1	A	228	HIS	N-CA-C	-5.29	105.51	111.28
1	A	679	GLU	N-CA-C	-5.29	104.76	111.11
1	A	462	LEU	N-CA-CB	5.29	118.00	110.06
1	B	631	ALA	N-CA-C	5.29	116.72	111.07
1	A	718	ILE	O-C-N	5.28	127.00	121.87
1	A	347	SER	CA-C-O	-5.28	114.44	121.46
1	B	195	LEU	N-CA-C	-5.28	105.64	111.71
1	A	49	THR	CA-C-N	-5.27	114.78	123.05
1	A	49	THR	C-N-CA	-5.27	114.78	123.05
1	A	14	ARG	CA-C-N	-5.27	111.09	121.41
1	A	14	ARG	C-N-CA	-5.27	111.09	121.41
1	A	142	GLU	N-CA-C	-5.26	105.54	111.28
1	B	664	ASP	N-CA-C	-5.26	105.54	111.28
1	B	117	ALA	O-C-N	5.26	129.59	122.59
1	A	11	GLY	N-CA-C	-5.26	106.42	112.73
1	B	623	ILE	CA-C-N	-5.26	112.90	121.26
1	B	623	ILE	C-N-CA	-5.26	112.90	121.26
1	A	229	LEU	N-CA-C	-5.25	105.45	111.07
1	A	374	THR	CA-C-N	-5.25	113.27	119.84
1	A	374	THR	C-N-CA	-5.25	113.27	119.84
1	A	181	PRO	N-CA-C	5.25	123.28	112.47
1	A	293	ALA	O-C-N	5.25	127.48	122.03
1	A	270	ASP	CB-CA-C	-5.24	102.85	110.03
1	A	561	LEU	CA-C-N	5.24	131.55	121.54
1	A	561	LEU	C-N-CA	5.24	131.55	121.54
1	A	367	ALA	N-CA-C	-5.24	102.30	110.10
1	B	75	GLN	N-CA-C	-5.23	105.00	111.33
1	A	146	PHE	N-CA-C	-5.23	106.60	112.87
1	A	380	ASN	N-CA-C	-5.22	102.26	110.36
1	A	606	VAL	N-CA-C	-5.22	100.96	108.53
1	B	383	ASN	CA-C-N	-5.21	112.97	121.26
1	B	383	ASN	C-N-CA	-5.21	112.97	121.26
1	A	27	ASN	N-CA-C	5.21	119.69	112.45
1	A	318	ILE	CA-C-N	-5.21	113.33	119.84
1	A	318	ILE	C-N-CA	-5.21	113.33	119.84
1	A	415	LYS	N-CA-C	-5.20	105.69	111.36
1	B	201	ALA	N-CA-C	-5.20	105.62	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	76	ALA	N-CA-C	-5.19	105.74	111.71
1	A	171	VAL	CA-C-N	-5.19	112.09	121.69
1	A	171	VAL	C-N-CA	-5.19	112.09	121.69
1	B	528	ILE	O-C-N	5.19	126.33	121.61
1	B	384	GLN	N-CA-C	-5.18	102.52	110.30
1	A	538	GLY	CA-C-N	-5.18	114.19	122.53
1	A	538	GLY	C-N-CA	-5.18	114.19	122.53
1	B	629	ALA	N-CA-C	-5.18	105.64	111.28
1	B	358	VAL	N-CA-C	5.17	120.09	109.34
1	B	54	TRP	CB-CA-C	5.17	118.73	110.16
1	A	50	SER	CA-CB-OG	-5.16	100.78	111.10
1	A	108	ALA	N-CA-C	-5.16	105.55	111.07
1	A	508	GLY	CA-C-O	-5.16	116.67	122.24
1	A	721	HIS	O-C-N	5.16	127.66	122.09
1	A	394	SER	CA-C-N	5.16	127.45	120.44
1	A	394	SER	C-N-CA	5.16	127.45	120.44
1	B	642	GLU	CA-C-N	-5.16	113.37	120.28
1	B	642	GLU	C-N-CA	-5.16	113.37	120.28
1	A	222	PRO	CA-N-CD	-5.15	104.79	112.00
1	B	640	PHE	CB-CA-C	-5.15	102.79	110.88
1	B	450	ALA	N-CA-C	-5.15	105.67	111.28
1	B	587	PHE	N-CA-C	5.14	116.89	111.28
1	A	200	THR	CA-C-N	5.14	131.35	121.54
1	A	200	THR	C-N-CA	5.14	131.35	121.54
1	A	195	LEU	O-C-N	5.13	127.56	122.12
1	B	100	PRO	CA-N-CD	-5.13	104.82	112.00
1	A	507	GLN	N-CA-C	-5.13	105.58	111.07
1	B	471	LEU	N-CA-C	5.12	117.73	110.50
1	B	171	VAL	CA-CB-CG2	5.11	119.09	110.40
1	A	728	GLY	CA-C-O	-5.10	115.50	121.00
1	B	474	ARG	N-CA-C	-5.10	105.62	111.07
1	A	101	GLU	N-CA-C	5.10	116.91	111.36
1	B	131	ILE	N-CA-C	5.09	115.31	110.42
1	A	659	GLU	N-CA-C	5.09	116.64	111.14
1	B	372	ALA	N-CA-C	-5.09	103.82	110.53
1	A	651	ARG	N-CA-C	-5.08	105.74	111.28
1	A	37	PRO	CA-N-CD	-5.08	104.89	112.00
1	A	735	MET	N-CA-C	-5.08	103.44	110.35
1	A	666	ARG	CA-C-N	-5.07	111.85	121.54
1	A	666	ARG	C-N-CA	-5.07	111.85	121.54
1	A	348	ALA	N-CA-C	-5.07	100.00	110.80
1	A	50	SER	N-CA-CB	-5.07	104.55	112.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	397	MET	N-CA-C	-5.07	105.75	111.28
1	A	690	ALA	N-CA-C	-5.07	100.01	110.80
1	B	458	ALA	N-CA-C	-5.07	105.76	111.28
1	B	636	TRP	CA-CB-CG	5.06	123.22	113.60
1	B	694	ALA	N-CA-C	-5.06	105.65	111.07
1	A	64	VAL	N-CA-C	5.06	119.86	109.34
1	A	723	ILE	N-CA-CB	5.06	117.04	110.57
1	B	128	PRO	CA-N-CD	-5.05	104.93	112.00
1	B	151	THR	CB-CA-C	-5.05	102.41	110.79
1	B	442	PRO	N-CA-C	5.04	122.86	112.47
1	B	95	SER	CA-C-N	5.04	131.17	121.54
1	B	95	SER	C-N-CA	5.04	131.17	121.54
1	A	712	SER	N-CA-C	5.04	116.58	111.14
1	B	440	GLY	O-C-N	5.03	129.24	122.70
1	A	99	ASN	N-CA-C	5.03	116.23	109.24
1	A	239	ARG	N-CA-C	-5.03	106.99	112.72
1	B	24	GLU	CA-CB-CG	5.02	124.14	114.10
1	B	592	ALA	N-CA-C	5.01	117.48	109.81
1	A	55	GLU	CA-CB-CG	5.01	124.13	114.10
1	B	383	ASN	N-CA-C	-5.01	105.82	111.28
1	B	180	TYR	CA-C-N	-5.01	113.58	119.84
1	B	180	TYR	C-N-CA	-5.01	113.58	119.84
1	A	259	ARG	N-CA-C	-5.00	100.14	110.80

There are no chirality outliers.

All (112) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	110	ILE	Peptide
1	A	113	SER	Peptide
1	A	127	PRO	Peptide
1	A	129	THR	Peptide
1	A	130	ALA	Peptide
1	A	146	PHE	Peptide
1	A	147	HIS	Mainchain
1	A	167	ASP	Peptide
1	A	177	THR	Peptide
1	A	178	ALA	Peptide
1	A	199	LEU	Peptide
1	A	208	LYS	Peptide
1	A	210	LEU	Mainchain
1	A	223	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	A	23	GLY	Peptide
1	A	230	ALA	Peptide
1	A	243	ASN	Peptide
1	A	248	ALA	Peptide
1	A	25	LEU	Peptide
1	A	264	SER	Peptide
1	A	272	SER	Peptide
1	A	273	ALA	Peptide
1	A	276	ARG	Peptide
1	A	289	ALA	Mainchain
1	A	314	SER	Peptide
1	A	315	SER	Peptide
1	A	316	THR	Peptide
1	A	317	ILE	Peptide
1	A	332	LYS	Mainchain
1	A	34	LEU	Peptide
1	A	347	SER	Peptide
1	A	365	GLN	Peptide
1	A	366	PHE	Peptide
1	A	376	VAL	Peptide
1	A	379	ALA	Peptide
1	A	380	ASN	Peptide
1	A	390	GLU	Peptide
1	A	391	PRO	Peptide
1	A	396	ARG	Sidechain
1	A	397	MET	Mainchain
1	A	405	GLY	Mainchain
1	A	409	ALA	Peptide
1	A	422	GLU	Peptide
1	A	426	GLN	Peptide
1	A	433	ASN	Peptide
1	A	438	THR	Peptide
1	A	440	GLY	Peptide
1	A	459	ILE	Peptide
1	A	464	THR	Peptide
1	A	466	ILE	Mainchain
1	A	497	HIS	Peptide
1	A	513	GLN	Peptide
1	A	519	VAL	Peptide
1	A	52	LEU	Peptide
1	A	544	GLU	Peptide
1	A	557	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	A	561	LEU	Mainchain
1	A	565	VAL	Peptide
1	A	585	THR	Peptide
1	A	60	ASN	Peptide
1	A	627	THR	Peptide
1	A	712	SER	Peptide
1	A	714	LEU	Mainchain
1	A	737	LEU	Peptide
1	A	738	LEU	Peptide
1	A	753	SER	Peptide
1	A	758	MET	Peptide
1	B	114	SER	Mainchain
1	B	115	ASN	Peptide
1	B	116	ARG	Peptide
1	B	163	PHE	Peptide
1	B	165	LEU	Peptide
1	B	171	VAL	Peptide
1	B	172	TYR	Peptide
1	B	23	GLY	Mainchain
1	B	240	SER	Peptide
1	B	266	PRO	Peptide
1	B	267	LYS	Mainchain
1	B	309	SER	Peptide
1	B	314	SER	Peptide
1	B	316	THR	Peptide
1	B	333	LEU	Peptide
1	B	340	THR	Peptide
1	B	37	PRO	Peptide
1	B	373	PHE	Sidechain
1	B	393	ILE	Peptide
1	B	4	LEU	Peptide
1	B	40	PHE	Peptide
1	B	402	ALA	Peptide
1	B	42	ARG	Peptide
1	B	420	VAL	Peptide
1	B	43	THR	Peptide
1	B	435	ALA	Mainchain
1	B	438	THR	Peptide
1	B	470	SER	Peptide
1	B	492	HIS	Peptide
1	B	506	HIS	Peptide
1	B	510	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	B	523	ARG	Peptide
1	B	53	LEU	Peptide
1	B	552	ASN	Peptide
1	B	580	TRP	Peptide
1	B	586	GLU	Peptide
1	B	607	LYS	Mainchain
1	B	608	GLU	Peptide
1	B	683	THR	Peptide
1	B	710	ASP	Peptide
1	B	712	SER	Peptide
1	B	734	MET	Peptide
1	B	8	ASP	Peptide
1	B	94	GLN	Mainchain,Peptide

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	5920	0	5870	3872	0
1	B	5920	0	5883	4136	0
All	All	11840	0	11753	7970	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 338.

All (7970) 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:61:ILE:HG22	1:A:156:HIS:CD2	1.18	1.68
1:A:732:LEU:CD1	1:A:738:LEU:HD22	1.23	1.67
1:B:373:PHE:CD2	1:B:583:ALA:HB1	1.31	1.66
1:B:670:ASN:HD21	1:B:749:VAL:CG1	1.07	1.65
1:A:2:PHE:CG	1:A:459:ILE:HG21	1.28	1.65
1:B:156:HIS:CD2	1:B:158:LEU:H	1.14	1.65
1:B:308:PHE:CZ	1:B:318:ILE:HB	1.29	1.61
1:B:260:LEU:HD12	1:B:261:TRP:CD1	1.29	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:53:LEU:HD21	1:B:571:HIS:CE1	1.13	1.60
1:A:636:TRP:CH2	1:A:640:PHE:CE2	1.77	1.59
1:A:250:VAL:CG1	1:A:253:VAL:HG11	1.25	1.59
1:B:681:ILE:HG22	1:B:731:VAL:CG1	1.31	1.59
1:B:407:THR:HG23	1:B:408:PHE:CD2	1.26	1.58
1:B:93:HIS:HB3	1:B:237:PHE:CE1	1.38	1.58
1:B:404:ILE:HG21	1:B:737:LEU:CD2	1.30	1.55
1:A:587:PHE:CE2	1:A:621:VAL:HB	1.09	1.55
1:A:587:PHE:CZ	1:A:621:VAL:CG1	1.89	1.54
1:B:633:ILE:HG21	1:B:738:LEU:CD2	1.33	1.54
1:A:61:ILE:CG2	1:A:156:HIS:CD2	1.89	1.53
1:B:506:HIS:HB2	1:B:517:TYR:CZ	1.38	1.53
1:A:250:VAL:HG12	1:A:253:VAL:CG1	1.36	1.53
1:A:715:HIS:HE2	1:B:378:LEU:CD2	1.19	1.53
1:B:526:LEU:CA	1:B:527:ARG:NH1	1.70	1.52
1:A:101:GLU:C	1:A:104:ARG:HD2	1.12	1.51
1:A:2:PHE:CD1	1:A:459:ILE:HG21	1.44	1.51
1:A:346:THR:HG22	1:A:359:VAL:C	1.12	1.51
1:B:377:LYS:CB	1:B:385:ARG:NH1	1.70	1.51
1:A:127:PRO:HG2	1:A:130:ALA:CA	1.36	1.50
1:A:128:PRO:HA	1:A:166:PRO:CG	1.35	1.50
1:A:408:PHE:CD2	1:A:636:TRP:NE1	1.76	1.50
1:A:653:THR:C	1:A:655:ARG:HG3	1.30	1.49
1:B:408:PHE:CE1	1:B:636:TRP:HD1	1.26	1.49
1:B:497:HIS:CG	1:B:549:ILE:CD1	1.94	1.49
1:B:497:HIS:CB	1:B:549:ILE:HD11	1.06	1.49
1:B:94:GLN:N	1:B:237:PHE:CZ	1.77	1.48
1:B:497:HIS:CB	1:B:549:ILE:CD1	1.85	1.48
1:A:587:PHE:CE2	1:A:621:VAL:CB	1.94	1.48
1:A:128:PRO:N	1:A:166:PRO:HB2	1.25	1.47
1:B:377:LYS:HB3	1:B:385:ARG:CZ	1.44	1.47
1:B:526:LEU:CD2	1:B:527:ARG:H	1.26	1.47
1:B:577:ILE:HD12	1:B:578:TRP:N	1.24	1.47
1:A:42:ARG:CA	1:A:289:ALA:CB	1.91	1.47
1:B:226:SER:HA	1:B:229:LEU:CB	1.40	1.46
1:A:630:HIS:HB2	1:A:737:LEU:CG	1.40	1.46
1:B:94:GLN:HA	1:B:237:PHE:CE2	1.50	1.46
1:B:354:GLN:CB	1:B:528:ILE:HG21	1.41	1.46
1:B:228:HIS:HD2	1:B:231:ASN:ND2	1.10	1.46
1:B:506:HIS:HB2	1:B:517:TYR:CE1	1.51	1.46
1:B:681:ILE:CG2	1:B:731:VAL:HG11	1.00	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:587:PHE:HZ	1:A:621:VAL:CG1	1.17	1.45
1:B:497:HIS:CG	1:B:549:ILE:HD11	1.48	1.45
1:B:642:GLU:CA	1:B:645:ARG:NH1	1.78	1.45
1:B:156:HIS:CE1	1:B:157:VAL:CG2	1.98	1.44
1:B:497:HIS:CD2	1:B:549:ILE:HD12	1.51	1.44
1:B:607:LYS:C	1:B:609:PHE:HB2	1.43	1.44
1:A:101:GLU:CA	1:A:104:ARG:HD2	1.47	1.44
1:B:321:PHE:HD1	1:B:325:MET:SD	1.41	1.44
1:B:182:ASN:HB2	1:B:484:PHE:CE1	1.50	1.43
1:A:404:ILE:CD1	1:A:681:ILE:HG23	1.45	1.43
1:A:346:THR:CG2	1:A:359:VAL:C	1.92	1.43
1:B:404:ILE:HD13	1:B:737:LEU:CD2	1.46	1.43
1:A:101:GLU:O	1:A:104:ARG:CD	1.65	1.42
1:A:127:PRO:HA	1:A:166:PRO:CB	1.49	1.42
1:B:156:HIS:CE1	1:B:157:VAL:HG23	1.49	1.42
1:A:408:PHE:CZ	1:A:636:TRP:CZ2	2.06	1.42
1:A:715:HIS:NE2	1:B:378:LEU:HD21	1.17	1.41
1:B:633:ILE:CG2	1:B:738:LEU:HD21	1.50	1.41
1:B:647:LEU:CD2	1:B:663:ILE:HB	1.48	1.41
1:A:732:LEU:HD12	1:A:738:LEU:CD2	1.47	1.41
1:A:715:HIS:CE1	1:B:378:LEU:HD22	1.54	1.41
1:A:106:LEU:HD21	1:A:135:LEU:CD2	1.48	1.41
1:B:506:HIS:CB	1:B:517:TYR:CE1	2.02	1.40
1:B:642:GLU:HA	1:B:645:ARG:NH1	1.12	1.40
1:A:127:PRO:CA	1:A:166:PRO:HB3	1.50	1.40
1:A:159:SER:HB2	1:A:164:ILE:CB	1.30	1.40
1:A:195:LEU:CD2	1:A:199:LEU:HG	1.52	1.40
1:B:670:ASN:ND2	1:B:749:VAL:CG1	1.75	1.40
1:A:636:TRP:CZ3	1:A:640:PHE:CD2	2.10	1.40
1:A:636:TRP:CZ2	1:A:640:PHE:CE2	2.11	1.39
1:B:408:PHE:CD1	1:B:636:TRP:HD1	1.36	1.39
1:B:580:TRP:HZ2	1:B:581:HIS:CE1	1.38	1.39
1:B:260:LEU:CD1	1:B:261:TRP:CD1	2.04	1.39
1:B:408:PHE:CD1	1:B:636:TRP:CD1	2.08	1.39
1:B:467:VAL:CG2	1:B:479:LEU:HD11	1.51	1.39
1:B:568:LEU:CD1	1:B:572:THR:OG1	1.69	1.39
1:A:187:VAL:HG13	1:A:246:ALA:C	1.47	1.38
1:B:376:VAL:CG2	1:B:386:PHE:O	1.71	1.38
1:B:614:LEU:HD13	1:B:615:GLY:N	1.36	1.38
1:B:681:ILE:CG2	1:B:731:VAL:CG1	1.91	1.38
1:A:136:ARG:HB2	1:A:147:HIS:NE2	1.31	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:344:GLY:O	1:A:360:VAL:CB	1.71	1.38
1:A:566:LEU:CD1	1:A:568:LEU:HG	1.52	1.38
1:B:642:GLU:CB	1:B:645:ARG:HH12	1.34	1.37
1:A:408:PHE:CZ	1:A:636:TRP:HZ2	1.42	1.37
1:B:407:THR:CG2	1:B:408:PHE:CD2	2.07	1.37
1:B:404:ILE:CG2	1:B:737:LEU:CD2	2.02	1.36
1:A:344:GLY:C	1:A:360:VAL:HB	1.48	1.36
1:B:53:LEU:CD2	1:B:571:HIS:CE1	2.09	1.36
1:B:156:HIS:NE2	1:B:157:VAL:HG23	1.33	1.36
1:B:308:PHE:CZ	1:B:318:ILE:CB	2.09	1.36
1:B:371:THR:O	1:B:623:ILE:HG12	1.24	1.36
1:A:346:THR:OG1	1:A:358:VAL:HA	1.25	1.36
1:A:42:ARG:N	1:A:289:ALA:HB2	1.06	1.35
1:A:292:ILE:CG2	1:A:295:GLN:HB3	1.55	1.35
1:A:40:PHE:CD2	1:A:291:PHE:HB2	1.60	1.35
1:A:42:ARG:C	1:A:289:ALA:CB	1.98	1.35
1:A:272:SER:H	1:A:276:ARG:CD	1.40	1.35
1:A:408:PHE:CE2	1:A:636:TRP:CE2	2.14	1.35
1:A:346:THR:HG21	1:A:358:VAL:C	1.52	1.35
1:B:373:PHE:CD2	1:B:583:ALA:CB	2.08	1.34
1:A:10:ASN:O	1:A:14:ARG:HB2	1.27	1.34
1:B:228:HIS:CD2	1:B:231:ASN:HD21	1.45	1.34
1:B:670:ASN:ND2	1:B:749:VAL:HG11	1.34	1.34
1:A:42:ARG:O	1:A:289:ALA:CB	1.75	1.34
1:A:653:THR:C	1:A:655:ARG:CG	1.99	1.34
1:A:128:PRO:CD	1:A:166:PRO:HB2	1.56	1.33
1:A:176:ARG:HH12	1:A:446:GLU:C	1.28	1.33
1:B:354:GLN:HB2	1:B:528:ILE:CG2	1.59	1.33
1:A:234:THR:O	1:A:237:PHE:HB3	1.18	1.33
1:B:228:HIS:CD2	1:B:231:ASN:ND2	1.95	1.33
1:A:637:TYR:OH	1:A:745:ALA:CB	1.75	1.33
1:A:523:ARG:HD3	1:A:524:THR:N	1.41	1.32
1:A:116:ARG:C	1:A:220:LEU:HD12	1.52	1.32
1:A:133:GLU:OE1	1:A:136:ARG:HB3	1.18	1.32
1:A:2:PHE:HZ	1:A:486:TYR:CE2	1.46	1.32
1:A:42:ARG:N	1:A:289:ALA:CB	1.85	1.32
1:A:187:VAL:HG13	1:A:246:ALA:O	1.23	1.32
1:B:506:HIS:N	1:B:517:TYR:OH	1.62	1.32
1:B:702:MET:SD	1:B:714:LEU:HD12	1.66	1.32
1:B:183:PHE:CA	1:B:186:LEU:HD13	1.60	1.32
1:B:580:TRP:CZ2	1:B:581:HIS:CG	2.18	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:GLU:OE1	1:A:136:ARG:CB	1.78	1.32
1:B:607:LYS:HB2	1:B:608:GLU:C	1.54	1.32
1:A:653:THR:O	1:A:655:ARG:CG	1.77	1.31
1:B:449:TYR:CG	1:B:634:GLN:OE1	1.82	1.31
1:A:61:ILE:HG22	1:A:156:HIS:NE2	1.39	1.31
1:B:408:PHE:CE1	1:B:636:TRP:CD1	2.18	1.31
1:B:94:GLN:CA	1:B:237:PHE:CZ	2.14	1.31
1:B:623:ILE:HD12	1:B:625:LYS:CB	1.59	1.31
1:A:732:LEU:O	1:A:738:LEU:CD1	1.77	1.31
1:B:586:GLU:O	1:B:622:ARG:NE	1.63	1.31
1:B:497:HIS:CD2	1:B:549:ILE:CD1	2.10	1.30
1:A:116:ARG:O	1:A:220:LEU:HD12	1.29	1.30
1:A:408:PHE:CG	1:A:636:TRP:NE1	1.90	1.30
1:A:86:VAL:HB	1:A:191:ARG:CD	1.60	1.30
1:B:702:MET:CG	1:B:714:LEU:HD12	1.61	1.30
1:A:36:LEU:H	1:A:263:PRO:CB	1.42	1.29
1:A:408:PHE:CE2	1:A:636:TRP:NE1	2.01	1.29
1:A:20:PHE:O	1:A:299:LYS:NZ	1.64	1.29
1:B:620:ARG:O	1:B:621:VAL:HG13	1.26	1.29
1:A:170:TYR:CD2	1:A:576:HIS:CE1	2.20	1.29
1:A:715:HIS:NE2	1:B:378:LEU:CD2	1.77	1.29
1:A:517:TYR:CD2	1:A:520:TRP:CZ2	2.18	1.28
1:B:93:HIS:CB	1:B:237:PHE:CE1	2.14	1.28
1:B:361:TYR:CD1	1:B:441:PHE:CE2	2.20	1.28
1:B:643:ASP:OD2	1:B:666:ARG:CG	1.81	1.28
1:B:156:HIS:CD2	1:B:158:LEU:N	1.98	1.28
1:B:339:THR:HG21	1:B:492:HIS:O	1.30	1.28
1:B:580:TRP:CZ2	1:B:581:HIS:CD2	2.19	1.28
1:B:127:PRO:C	1:B:128:PRO:N	1.91	1.28
1:A:173:ARG:NH1	1:A:174:VAL:O	1.66	1.28
1:A:587:PHE:HE2	1:A:621:VAL:CB	1.35	1.28
1:A:101:GLU:CA	1:A:104:ARG:CD	2.10	1.28
1:A:468:ASP:O	1:A:469:GLU:HG2	1.20	1.28
1:A:517:TYR:HE2	1:A:520:TRP:CZ3	1.50	1.28
1:A:653:THR:O	1:A:655:ARG:HG3	1.22	1.28
1:B:580:TRP:CZ2	1:B:581:HIS:CE1	2.20	1.28
1:A:129:THR:O	1:A:132:LEU:N	1.64	1.27
1:A:517:TYR:HE2	1:A:520:TRP:CE3	1.51	1.27
1:A:566:LEU:HD11	1:A:568:LEU:CG	1.63	1.27
1:B:526:LEU:HD22	1:B:527:ARG:N	1.42	1.27
1:B:568:LEU:HD12	1:B:572:THR:OG1	1.20	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:TYR:CE2	1:A:520:TRP:CZ3	2.22	1.27
1:B:506:HIS:HB2	1:B:517:TYR:OH	1.28	1.27
1:B:681:ILE:C	1:B:731:VAL:HG21	1.58	1.27
1:A:99:ASN:OD1	1:A:101:GLU:OE2	1.52	1.26
1:A:116:ARG:HG2	1:A:222:PRO:O	1.13	1.26
1:B:93:HIS:C	1:B:237:PHE:CE1	2.12	1.26
1:B:681:ILE:O	1:B:731:VAL:HG21	1.27	1.26
1:A:630:HIS:CB	1:A:737:LEU:HG	1.66	1.26
1:A:42:ARG:H	1:A:289:ALA:CB	1.43	1.26
1:B:321:PHE:CD1	1:B:325:MET:SD	2.29	1.26
1:B:404:ILE:CD1	1:B:737:LEU:HD21	1.66	1.26
1:B:407:THR:CG2	1:B:408:PHE:CE2	2.18	1.26
1:A:42:ARG:HG3	1:A:336:ILE:CD1	1.62	1.26
1:A:636:TRP:CZ3	1:A:640:PHE:CE2	2.24	1.26
1:A:517:TYR:CE2	1:A:520:TRP:CH2	2.21	1.26
1:B:308:PHE:CE2	1:B:318:ILE:HB	1.70	1.26
1:B:424:VAL:O	1:B:430:VAL:HA	1.22	1.26
1:B:309:SER:OG	1:B:315:SER:CA	1.84	1.25
1:B:407:THR:HG21	1:B:408:PHE:CE2	1.69	1.25
1:B:506:HIS:CB	1:B:517:TYR:HE1	1.42	1.25
1:B:593:TYR:HD2	1:B:726:TRP:CG	1.53	1.25
1:B:308:PHE:CE2	1:B:318:ILE:CG1	2.18	1.25
1:B:371:THR:O	1:B:623:ILE:CG1	1.83	1.25
1:B:417:ARG:HH21	1:B:639:TRP:CG	1.49	1.25
1:B:580:TRP:CH2	1:B:581:HIS:CD2	2.23	1.25
1:A:101:GLU:O	1:A:104:ARG:HD2	1.10	1.25
1:B:401:LEU:O	1:B:404:ILE:N	1.65	1.25
1:B:590:GLU:CA	1:B:608:GLU:HB3	1.65	1.25
1:A:347:SER:CB	1:A:348:ALA:HB2	1.65	1.25
1:A:744:GLU:OE1	1:A:747:THR:HG21	1.21	1.24
1:B:623:ILE:CD1	1:B:625:LYS:HB3	1.68	1.24
1:A:598:ARG:O	1:A:599:ASN:ND2	1.68	1.24
1:B:308:PHE:HE2	1:B:318:ILE:CG1	1.49	1.24
1:B:514:GLY:O	1:B:516:LEU:HD13	1.09	1.24
1:A:2:PHE:C	1:A:3:ASN:HD22	1.43	1.24
1:A:461:ALA:HA	1:A:464:THR:CG2	1.68	1.24
1:A:468:ASP:O	1:A:469:GLU:CG	1.84	1.24
1:A:566:LEU:CD1	1:A:568:LEU:H	1.50	1.24
1:A:715:HIS:CD2	1:B:376:VAL:HG11	1.70	1.24
1:B:182:ASN:O	1:B:185:ALA:HB3	1.26	1.24
1:B:245:ASP:CG	1:B:248:ALA:H	1.42	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:ALA:HB1	1:A:485:ASN:OD1	1.23	1.24
1:A:408:PHE:CE2	1:A:636:TRP:CZ2	2.24	1.24
1:B:416:ASN:ND2	1:B:673:THR:HG21	1.48	1.24
1:B:148:HIS:O	1:B:151:THR:OG1	1.55	1.24
1:A:630:HIS:HB2	1:A:737:LEU:CD2	1.66	1.23
1:B:94:GLN:CA	1:B:237:PHE:CE2	2.19	1.23
1:B:309:SER:OG	1:B:315:SER:N	1.71	1.23
1:A:2:PHE:CG	1:A:459:ILE:CG2	2.22	1.23
1:B:37:PRO:HG2	1:B:261:TRP:CZ3	1.73	1.23
1:B:404:ILE:CG2	1:B:737:LEU:HD23	1.64	1.23
1:B:590:GLU:HA	1:B:608:GLU:CB	1.53	1.23
1:A:87:ASN:OD1	1:A:191:ARG:NH1	1.70	1.23
1:A:105:LYS:NZ	1:A:137:THR:OG1	1.69	1.23
1:A:259:ARG:NH2	1:A:513:GLN:O	1.68	1.23
1:A:653:THR:CA	1:A:655:ARG:HG3	1.68	1.23
1:B:322:ILE:N	1:B:325:MET:SD	2.11	1.23
1:A:177:THR:HA	1:A:447:ARG:NH2	1.54	1.22
1:A:42:ARG:C	1:A:289:ALA:HB1	1.58	1.22
1:A:116:ARG:O	1:A:220:LEU:CD1	1.87	1.22
1:A:229:LEU:O	1:A:233:ALA:HB2	1.34	1.22
1:A:250:VAL:CA	1:A:253:VAL:HG12	1.70	1.22
1:A:420:VAL:HG11	1:A:643:ASP:CG	1.62	1.22
1:A:461:ALA:CA	1:A:464:THR:HG22	1.68	1.22
1:A:718:ILE:O	1:A:721:HIS:N	1.73	1.22
1:A:82:VAL:HA	1:A:85:LEU:CG	1.66	1.22
1:A:195:LEU:O	1:A:199:LEU:HB2	1.39	1.22
1:B:408:PHE:CD1	1:B:413:PHE:CE2	2.27	1.22
1:B:539:SER:O	1:B:541:ARG:HG2	1.06	1.22
1:B:720:ARG:O	1:B:724:ARG:HB2	1.38	1.22
1:A:346:THR:HG22	1:A:359:VAL:O	1.35	1.22
1:A:590:GLU:CD	1:A:608:GLU:OE1	1.83	1.22
1:A:63:PRO:O	1:A:200:THR:OG1	1.53	1.21
1:A:159:SER:HB2	1:A:164:ILE:CA	1.68	1.21
1:A:187:VAL:CG1	1:A:246:ALA:C	2.12	1.21
1:A:159:SER:CA	1:A:163:PHE:O	1.87	1.21
1:A:342:TYR:HA	1:A:559:GLU:CG	1.69	1.21
1:A:520:TRP:CD2	1:A:545:PRO:HG3	1.75	1.21
1:B:156:HIS:CG	1:B:157:VAL:H	1.48	1.21
1:B:182:ASN:HB2	1:B:484:PHE:CZ	1.74	1.21
1:B:449:TYR:CD1	1:B:634:GLN:OE1	1.94	1.21
1:A:350:ASP:OD1	1:A:351:HIS:HB2	1.40	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:TYR:CE2	1:B:492:HIS:CE1	2.29	1.21
1:B:228:HIS:O	1:B:231:ASN:N	1.73	1.21
1:A:36:LEU:N	1:A:263:PRO:HB3	1.55	1.20
1:A:346:THR:OG1	1:A:358:VAL:CA	1.88	1.20
1:A:587:PHE:CZ	1:A:621:VAL:HB	1.77	1.20
1:A:630:HIS:CA	1:A:737:LEU:HG	1.69	1.20
1:B:386:PHE:CZ	1:B:576:HIS:N	1.77	1.20
1:A:61:ILE:CG2	1:A:156:HIS:HD2	1.29	1.20
1:A:527:ARG:HH22	1:A:528:ILE:CD1	1.53	1.20
1:A:548:ALA:O	1:A:552:ASN:N	1.74	1.20
1:B:126:VAL:H	1:B:127:PRO:HD2	1.03	1.20
1:B:361:TYR:CD1	1:B:441:PHE:HE2	1.58	1.20
1:A:128:PRO:N	1:A:166:PRO:CB	2.02	1.20
1:A:159:SER:HA	1:A:163:PHE:O	1.04	1.20
1:A:732:LEU:O	1:A:738:LEU:HD11	1.06	1.20
1:A:732:LEU:CG	1:A:738:LEU:HD22	1.70	1.20
1:A:347:SER:HB3	1:A:348:ALA:CB	1.70	1.20
1:A:744:GLU:HA	1:A:747:THR:HG22	1.23	1.20
1:B:593:TYR:HD2	1:B:726:TRP:CD1	1.58	1.20
1:A:718:ILE:HA	1:A:721:HIS:HB2	1.24	1.19
1:A:177:THR:CB	1:A:447:ARG:HH22	1.53	1.19
1:A:715:HIS:CE1	1:B:378:LEU:CD2	2.20	1.19
1:B:401:LEU:HA	1:B:404:ILE:CG1	1.72	1.19
1:B:681:ILE:O	1:B:684:THR:OG1	1.55	1.19
1:B:694:ALA:O	1:B:698:ILE:HG12	1.37	1.19
1:A:476:SER:O	1:A:479:LEU:N	1.76	1.19
1:A:732:LEU:CD1	1:A:738:LEU:CD2	2.08	1.19
1:A:127:PRO:HG2	1:A:130:ALA:CB	1.72	1.19
1:A:717:GLY:O	1:A:720:ARG:N	1.74	1.19
1:B:720:ARG:O	1:B:724:ARG:NH1	1.72	1.19
1:A:209:MET:SD	1:A:210:LEU:N	2.14	1.19
1:A:636:TRP:CE2	1:A:640:PHE:CZ	2.30	1.19
1:B:94:GLN:N	1:B:237:PHE:CE1	2.11	1.19
1:B:501:VAL:CG1	1:B:518:LEU:HB3	1.72	1.19
1:A:159:SER:CB	1:A:164:ILE:HB	1.68	1.18
1:A:540:ILE:CG2	1:A:541:ARG:HH21	1.54	1.18
1:B:163:PHE:HB3	1:B:164:ILE:HG22	1.18	1.18
1:A:517:TYR:CE2	1:A:520:TRP:CD2	2.31	1.18
1:B:471:LEU:CD1	1:B:479:LEU:HD22	1.71	1.18
1:B:501:VAL:HG11	1:B:518:LEU:HB3	1.24	1.18
1:A:81:SER:O	1:A:85:LEU:HD23	1.41	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:ARG:HD2	1:B:612:LEU:CD2	1.73	1.18
1:B:539:SER:O	1:B:541:ARG:CG	1.90	1.18
1:A:517:TYR:HE2	1:A:520:TRP:CD2	1.62	1.18
1:A:654:SER:HA	1:A:655:ARG:HB2	1.21	1.18
1:B:424:VAL:CG2	1:B:430:VAL:HG13	1.73	1.18
1:B:54:TRP:N	1:B:172:TYR:O	1.77	1.18
1:B:156:HIS:CD2	1:B:157:VAL:H	1.61	1.18
1:B:173:ARG:HD2	1:B:174:VAL:N	1.57	1.18
1:B:245:ASP:HB3	1:B:248:ALA:CB	1.74	1.18
1:A:2:PHE:CD1	1:A:459:ILE:CG2	2.26	1.17
1:A:743:ALA:O	1:A:747:THR:N	1.76	1.17
1:B:226:SER:CA	1:B:229:LEU:HB2	1.74	1.17
1:B:308:PHE:CE2	1:B:318:ILE:CB	2.26	1.17
1:A:159:SER:CB	1:A:164:ILE:CB	2.12	1.17
1:A:630:HIS:CB	1:A:737:LEU:CG	2.19	1.17
1:A:73:TYR:CZ	1:A:143:HIS:HB3	1.79	1.17
1:A:272:SER:O	1:A:276:ARG:NE	1.75	1.17
1:B:35:GLN:HB3	1:B:502:VAL:HB	1.22	1.17
1:A:128:PRO:CA	1:A:166:PRO:CG	2.21	1.17
1:B:376:VAL:O	1:B:378:LEU:HG	1.45	1.17
1:A:161:LEU:O	1:A:163:PHE:N	1.77	1.17
1:A:234:THR:HA	1:A:237:PHE:HB2	1.23	1.17
1:A:268:GLU:OE2	1:A:269:LEU:HG	1.45	1.17
1:A:636:TRP:CH2	1:A:640:PHE:CD2	2.28	1.17
1:B:372:ALA:CB	1:B:389:VAL:HG23	1.73	1.16
1:A:128:PRO:CA	1:A:166:PRO:HG2	1.73	1.16
1:A:180:TYR:CD1	1:A:331:PHE:HB3	1.80	1.16
1:B:93:HIS:CG	1:B:237:PHE:HD1	1.62	1.16
1:B:309:SER:OG	1:B:310:ASP:O	1.60	1.16
1:B:577:ILE:CD1	1:B:578:TRP:H	1.58	1.16
1:A:133:GLU:OE1	1:A:136:ARG:CG	1.92	1.16
1:A:590:GLU:OE2	1:A:608:GLU:OE1	1.64	1.16
1:B:321:PHE:CE1	1:B:325:MET:HG2	1.80	1.16
1:B:401:LEU:HD22	1:B:404:ILE:CD1	1.76	1.16
1:A:9:LEU:HD23	1:A:10:ASN:N	1.58	1.16
1:A:82:VAL:HA	1:A:85:LEU:CD2	1.76	1.16
1:A:517:TYR:HD2	1:A:520:TRP:CZ2	1.60	1.16
1:A:359:VAL:HA	1:A:438:THR:HA	1.16	1.16
1:A:535:ILE:HD11	1:A:540:ILE:HA	1.16	1.16
1:A:101:GLU:O	1:A:104:ARG:CG	1.94	1.15
1:A:268:GLU:CD	1:A:269:LEU:N	2.04	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:ALA:O	1:A:464:THR:N	1.78	1.15
1:B:372:ALA:HB3	1:B:389:VAL:CG2	1.76	1.15
1:A:272:SER:H	1:A:276:ARG:NE	1.42	1.15
1:A:292:ILE:CG2	1:A:295:GLN:CB	2.23	1.15
1:A:342:TYR:CA	1:A:559:GLU:HG2	1.75	1.15
1:B:9:LEU:HB3	1:B:16:LEU:HD23	1.25	1.15
1:B:289:ALA:HA	1:B:292:ILE:HD13	1.25	1.15
1:B:551:TYR:C	1:B:552:ASN:OD1	1.88	1.15
1:A:107:THR:O	1:A:112:GLY:HA3	1.44	1.15
1:A:126:VAL:HG21	1:A:165:LEU:HB2	1.20	1.15
1:A:159:SER:HA	1:A:163:PHE:C	1.70	1.15
1:B:183:PHE:HA	1:B:186:LEU:CD1	1.76	1.15
1:B:415:LYS:HE3	1:B:416:ASN:HA	1.18	1.15
1:B:606:VAL:HB	1:B:697:ARG:HH21	1.09	1.15
1:A:170:TYR:CE2	1:A:576:HIS:CE1	2.35	1.15
1:A:250:VAL:CB	1:A:253:VAL:CG1	2.25	1.15
1:A:523:ARG:HD3	1:A:524:THR:CA	1.77	1.15
1:A:6:VAL:HA	1:A:9:LEU:HD13	1.25	1.15
1:A:690:ALA:O	1:A:693:LEU:HB2	1.47	1.15
1:A:713:ASP:O	1:A:714:LEU:HB3	1.47	1.15
1:B:670:ASN:ND2	1:B:749:VAL:HG12	1.58	1.15
1:A:119:LYS:HA	1:A:219:ALA:HA	1.26	1.14
1:B:48:MET:HA	1:B:179:THR:HG22	1.28	1.14
1:B:245:ASP:CG	1:B:248:ALA:N	2.05	1.14
1:B:497:HIS:HB3	1:B:549:ILE:CD1	1.74	1.14
1:B:725:ILE:HD13	1:B:728:GLY:HA3	1.27	1.14
1:A:36:LEU:HB2	1:A:263:PRO:N	1.62	1.14
1:A:126:VAL:CG2	1:A:165:LEU:HB2	1.50	1.14
1:A:127:PRO:HG2	1:A:130:ALA:C	1.70	1.14
1:A:268:GLU:OE2	1:A:269:LEU:CG	1.96	1.14
1:B:4:LEU:HA	1:B:5:LYS:HG2	1.25	1.14
1:B:22:ILE:O	1:B:515:SER:OG	1.62	1.14
1:B:377:LYS:CB	1:B:385:ARG:CZ	2.12	1.14
1:B:614:LEU:CD1	1:B:615:GLY:N	2.10	1.14
1:B:654:SER:CB	1:B:659:GLU:HG2	1.77	1.14
1:B:707:LEU:HD13	1:B:708:ILE:H	1.08	1.14
1:A:268:GLU:CD	1:A:269:LEU:H	1.54	1.14
1:A:42:ARG:O	1:A:289:ALA:HB3	1.40	1.14
1:A:566:LEU:HD12	1:A:568:LEU:H	1.07	1.14
1:B:46:ALA:HB3	1:B:179:THR:HA	1.30	1.14
1:A:193:SER:HA	1:A:196:ARG:HB2	1.21	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:TYR:CE2	1:A:520:TRP:CZ2	2.35	1.13
1:B:404:ILE:CD1	1:B:737:LEU:CD2	2.23	1.13
1:B:506:HIS:CB	1:B:517:TYR:OH	1.96	1.13
1:A:101:GLU:C	1:A:104:ARG:CD	2.07	1.13
1:A:180:TYR:OH	1:A:189:CYS:SG	2.03	1.13
1:A:234:THR:O	1:A:237:PHE:CB	1.97	1.13
1:A:292:ILE:HG22	1:A:295:GLN:HB3	1.19	1.13
1:A:502:VAL:HA	1:A:503:VAL:HG12	1.26	1.13
1:A:654:SER:CA	1:A:655:ARG:HB2	1.77	1.13
1:A:718:ILE:O	1:A:722:ARG:N	1.80	1.13
1:B:126:VAL:CG1	1:B:127:PRO:HD3	1.77	1.13
1:B:214:PHE:HA	1:B:220:LEU:HD22	1.24	1.13
1:B:249:VAL:HG23	1:B:318:ILE:HG22	1.23	1.13
1:A:276:ARG:HA	1:A:278:THR:HG23	1.23	1.13
1:B:16:LEU:HG	1:B:546:LEU:HD11	1.16	1.13
1:B:354:GLN:CB	1:B:528:ILE:CG2	2.20	1.13
1:B:593:TYR:CD2	1:B:726:TRP:CD1	2.35	1.13
1:A:2:PHE:CZ	1:A:486:TYR:CE2	2.37	1.13
1:B:53:LEU:HA	1:B:173:ARG:HA	1.21	1.13
1:B:339:THR:CG2	1:B:492:HIS:O	1.97	1.13
1:A:18:GLN:HA	1:A:21:ALA:HB2	1.28	1.13
1:A:170:TYR:CZ	1:A:576:HIS:NE2	2.17	1.13
1:A:373:PHE:CE2	1:A:387:LEU:HD22	1.84	1.12
1:A:524:THR:CG2	1:A:539:SER:HA	1.79	1.12
1:A:527:ARG:NH2	1:A:528:ILE:HD12	1.62	1.13
1:B:93:HIS:CG	1:B:237:PHE:CD1	2.37	1.12
1:B:348:ALA:O	1:B:354:GLN:O	1.67	1.12
1:B:401:LEU:O	1:B:404:ILE:CB	1.95	1.13
1:B:753:SER:O	1:B:755:ALA:N	1.80	1.13
1:A:101:GLU:HB2	1:A:104:ARG:HD3	1.32	1.12
1:A:106:LEU:HD11	1:A:135:LEU:HD22	1.24	1.12
1:B:321:PHE:HA	1:B:325:MET:HE1	1.28	1.12
1:B:377:LYS:HB3	1:B:385:ARG:NH1	0.80	1.12
1:A:176:ARG:HG2	1:A:447:ARG:NH1	1.62	1.12
1:A:177:THR:HG23	1:A:447:ARG:NH2	1.63	1.12
1:B:38:LEU:HG	1:B:501:VAL:HB	1.27	1.12
1:B:226:SER:CA	1:B:229:LEU:CB	2.27	1.12
1:B:401:LEU:CA	1:B:404:ILE:HG13	1.78	1.12
1:B:502:VAL:HG22	1:B:519:VAL:HG22	1.29	1.12
1:A:377:LYS:CB	1:A:385:ARG:HG2	1.80	1.12
1:A:387:LEU:HD12	1:A:572:THR:HG21	1.32	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:TRP:CZ2	1:A:640:PHE:CZ	2.38	1.12
1:B:222:PRO:HA	1:B:224:LEU:HG	1.16	1.12
1:B:681:ILE:HG21	1:B:731:VAL:HG11	1.18	1.12
1:A:117:ALA:N	1:A:220:LEU:HD12	1.61	1.11
1:B:45:SER:HB2	1:B:181:PRO:HD3	1.29	1.11
1:B:69:LEU:O	1:B:73:TYR:N	1.83	1.11
1:B:321:PHE:CE1	1:B:322:ILE:O	2.02	1.11
1:B:456:MET:HA	1:B:459:ILE:HD12	1.22	1.11
1:B:519:VAL:HG12	1:B:543:PRO:HB3	1.30	1.11
1:B:526:LEU:HA	1:B:527:ARG:NH1	0.80	1.11
1:B:569:ALA:HA	1:B:572:THR:HB	1.22	1.11
1:B:597:ILE:HD12	1:B:713:ASP:CG	1.74	1.11
1:A:517:TYR:CE2	1:A:520:TRP:CE2	2.38	1.11
1:B:334:ARG:HD3	1:B:335:PRO:HD3	1.18	1.11
1:B:647:LEU:HD21	1:B:663:ILE:HB	1.12	1.11
1:A:39:GLN:HG2	1:A:499:PRO:HB3	1.25	1.11
1:A:283:GLN:HA	1:A:286:SER:HB3	1.29	1.11
1:A:346:THR:HG21	1:A:359:VAL:N	1.63	1.11
1:A:597:ILE:HD12	1:A:598:ARG:CD	1.79	1.11
1:B:182:ASN:O	1:B:185:ALA:CB	1.98	1.11
1:B:259:ARG:HG3	1:B:269:LEU:HD22	1.20	1.11
1:B:401:LEU:O	1:B:404:ILE:HB	1.51	1.11
1:B:597:ILE:C	1:B:599:ASN:N	1.94	1.11
1:B:705:ARG:HB2	1:B:708:ILE:HG13	1.23	1.11
1:A:158:LEU:O	1:A:163:PHE:O	1.68	1.11
1:A:496:ALA:O	1:A:497:HIS:HB3	1.31	1.11
1:B:259:ARG:HA	1:B:269:LEU:HD21	1.23	1.11
1:B:401:LEU:HD22	1:B:404:ILE:HD12	1.22	1.11
1:B:597:ILE:C	1:B:599:ASN:H	1.40	1.11
1:A:4:LEU:HB3	1:A:13:ALA:CB	1.80	1.11
1:A:31:VAL:HG13	1:A:32:GLY:H	0.99	1.11
1:A:86:VAL:HG11	1:A:191:ARG:HG2	1.19	1.11
1:A:199:LEU:O	1:A:202:LEU:N	1.84	1.11
1:A:503:VAL:HG11	1:A:518:LEU:HA	1.25	1.11
1:A:524:THR:HG23	1:A:539:SER:CA	1.80	1.11
1:A:587:PHE:CZ	1:A:621:VAL:HG12	1.75	1.11
1:A:710:ASP:OD2	1:B:620:ARG:NH1	1.82	1.11
1:B:349:ILE:HD13	1:B:353:GLY:HA3	1.28	1.11
1:A:170:TYR:CG	1:A:576:HIS:HE1	1.67	1.10
1:A:462:LEU:HD11	1:A:483:MET:HG3	1.25	1.10
1:A:472:GLU:HB3	1:A:475:ALA:HB2	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:580:TRP:CZ2	1:B:581:HIS:ND1	2.18	1.10
1:A:10:ASN:OD1	1:A:14:ARG:CG	1.99	1.10
1:A:36:LEU:HG	1:A:263:PRO:CA	1.81	1.10
1:A:744:GLU:HA	1:A:747:THR:CG2	1.81	1.10
1:B:7:LYS:HD2	1:B:531:GLY:HA2	1.16	1.10
1:B:145:LEU:O	1:B:149:ILE:N	1.83	1.10
1:B:614:LEU:CD1	1:B:615:GLY:O	2.00	1.10
1:A:6:VAL:HG23	1:A:434:GLY:HA3	1.27	1.10
1:A:7:LYS:N	1:A:433:ASN:OD1	1.84	1.10
1:A:233:ALA:O	1:A:236:ALA:HB3	1.52	1.10
1:A:716:VAL:C	1:A:720:ARG:HB2	1.75	1.10
1:B:54:TRP:HD1	1:B:69:LEU:HD11	1.08	1.10
1:B:416:ASN:ND2	1:B:673:THR:CG2	2.14	1.10
1:B:526:LEU:HD23	1:B:527:ARG:HD2	1.15	1.10
1:A:42:ARG:HH11	1:A:336:ILE:HD11	0.97	1.10
1:A:86:VAL:HB	1:A:191:ARG:HD3	1.15	1.10
1:A:101:GLU:O	1:A:104:ARG:N	1.83	1.10
1:A:232:ALA:HA	1:A:235:THR:HB	1.29	1.10
1:A:250:VAL:O	1:A:252:SER:N	1.85	1.10
1:A:365:GLN:H	1:A:562:GLN:HA	1.10	1.10
1:B:105:LYS:HA	1:B:108:ALA:HB3	1.17	1.10
1:B:361:TYR:HD1	1:B:441:PHE:CE2	1.62	1.10
1:A:259:ARG:HG3	1:A:269:LEU:HD13	1.27	1.10
1:A:352:MET:HB2	1:A:355:PRO:HD2	1.21	1.10
1:A:444:VAL:O	1:A:445:VAL:C	1.85	1.10
1:A:723:ILE:HG23	1:A:724:ARG:HD3	1.19	1.10
1:B:371:THR:C	1:B:623:ILE:HG12	1.76	1.10
1:B:422:GLU:HG3	1:B:426:GLN:HG3	1.10	1.10
1:A:176:ARG:NH1	1:A:446:GLU:C	1.86	1.09
1:A:361:TYR:CD2	1:A:362:GLU:N	2.18	1.09
1:B:571:HIS:HA	1:B:574:SER:HB2	1.32	1.09
1:A:42:ARG:HG3	1:A:336:ILE:HD11	1.23	1.09
1:A:597:ILE:HD12	1:A:598:ARG:H	1.13	1.09
1:B:171:VAL:HG11	1:B:577:ILE:HA	1.26	1.09
1:B:275:LEU:HD11	1:B:316:THR:HA	1.25	1.09
1:B:396:ARG:CD	1:B:612:LEU:HD22	1.82	1.09
1:B:522:VAL:HB	1:B:540:ILE:HG13	1.35	1.09
1:B:580:TRP:CZ2	1:B:581:HIS:NE2	2.19	1.09
1:B:593:TYR:CD2	1:B:726:TRP:CG	2.40	1.09
1:B:616:GLN:C	1:B:618:ARG:HA	1.70	1.09
1:B:628:VAL:O	1:B:631:ALA:N	1.85	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:735:MET:HB3	1:B:737:LEU:HD13	1.21	1.09
1:A:430:VAL:HG12	1:A:529:PRO:HB3	1.31	1.09
1:B:89:PHE:HA	1:B:146:PHE:HE2	1.11	1.09
1:B:156:HIS:CE1	1:B:157:VAL:HG22	1.87	1.09
1:B:160:PRO:HG2	1:B:161:LEU:HD22	1.32	1.09
1:B:309:SER:OG	1:B:315:SER:CB	1.99	1.09
1:A:250:VAL:CG1	1:A:253:VAL:CG1	2.06	1.09
1:A:272:SER:N	1:A:276:ARG:CD	2.16	1.09
1:A:298:VAL:HG21	1:A:515:SER:HB3	1.35	1.09
1:A:332:LYS:HE3	1:A:339:THR:HG21	1.13	1.09
1:A:735:MET:SD	1:A:737:LEU:N	2.26	1.09
1:B:366:PHE:HA	1:B:563:ALA:HB2	1.23	1.09
1:B:681:ILE:O	1:B:731:VAL:CG2	2.00	1.09
1:B:733:GLN:HG3	1:B:734:MET:HE2	1.31	1.09
1:A:127:PRO:CG	1:A:130:ALA:CB	2.31	1.08
1:A:272:SER:H	1:A:276:ARG:HD2	1.13	1.08
1:A:365:GLN:HG2	1:A:367:ALA:H	1.10	1.08
1:A:527:ARG:CZ	1:A:528:ILE:HD12	1.83	1.08
1:A:637:TYR:OH	1:A:745:ALA:HB1	1.47	1.08
1:B:404:ILE:HD13	1:B:737:LEU:HD22	1.11	1.08
1:B:471:LEU:HD11	1:B:479:LEU:HD22	1.28	1.08
1:B:526:LEU:CD2	1:B:527:ARG:HD2	1.82	1.08
1:B:597:ILE:HB	1:B:714:LEU:HD23	1.09	1.08
1:B:702:MET:HG2	1:B:714:LEU:HD12	1.31	1.08
1:A:42:ARG:C	1:A:289:ALA:HB3	1.68	1.08
1:A:337:ASN:O	1:A:341:SER:N	1.87	1.08
1:A:352:MET:N	1:A:353:GLY:HA2	1.56	1.08
1:A:715:HIS:CG	1:A:716:VAL:HG13	1.88	1.08
1:B:472:GLU:H	1:B:475:ALA:HB3	1.16	1.08
1:B:560:VAL:HG23	1:B:562:GLN:H	1.14	1.08
1:B:698:ILE:O	1:B:702:MET:N	1.85	1.08
1:A:213:THR:HB	1:A:215:LYS:HD3	1.25	1.08
1:A:250:VAL:CA	1:A:253:VAL:CG1	2.32	1.08
1:A:384:GLN:HB3	1:A:578:TRP:HE1	1.10	1.08
1:B:587:PHE:HA	1:B:622:ARG:HD3	1.26	1.08
1:B:642:GLU:HG3	1:B:645:ARG:HH22	1.08	1.08
1:B:654:SER:HB2	1:B:659:GLU:HG2	1.32	1.08
1:A:36:LEU:CG	1:A:263:PRO:HA	1.84	1.08
1:A:364:TRP:CZ2	1:A:442:PRO:HG3	1.88	1.08
1:B:93:HIS:CB	1:B:237:PHE:HE1	1.58	1.08
1:B:105:LYS:O	1:B:109:TYR:N	1.85	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:199:LEU:O	1:B:202:LEU:HB2	1.53	1.08
1:A:82:VAL:CA	1:A:85:LEU:HG	1.83	1.08
1:A:127:PRO:C	1:A:166:PRO:CB	2.27	1.08
1:B:19:ALA:CB	1:B:24:GLU:HB3	1.83	1.08
1:B:244:PHE:CZ	1:B:318:ILE:HA	1.89	1.08
1:B:308:PHE:HE2	1:B:318:ILE:HG12	0.93	1.08
1:B:102:ILE:HB	1:B:135:LEU:HD11	1.20	1.07
1:B:123:VAL:HA	1:B:164:ILE:HG21	1.27	1.07
1:B:501:VAL:HG12	1:B:502:VAL:H	1.17	1.07
1:B:535:ILE:HG23	1:B:537:GLY:H	1.11	1.07
1:A:135:LEU:HD12	1:A:151:THR:HG22	1.34	1.07
1:A:250:VAL:HA	1:A:253:VAL:CG1	1.83	1.07
1:A:521:ASN:HD22	1:A:539:SER:HB3	1.17	1.07
1:A:547:GLU:O	1:A:551:TYR:N	1.86	1.07
1:A:597:ILE:HD12	1:A:598:ARG:HD2	1.34	1.07
1:B:101:GLU:O	1:B:105:LYS:N	1.86	1.07
1:B:182:ASN:CB	1:B:484:PHE:CZ	2.38	1.07
1:A:501:VAL:HB	1:A:518:LEU:HD12	1.30	1.07
1:A:587:PHE:CZ	1:A:621:VAL:CB	2.21	1.07
1:B:7:LYS:NZ	1:B:531:GLY:O	1.87	1.07
1:B:93:HIS:C	1:B:237:PHE:CD1	2.32	1.07
1:B:118:ILE:H	1:B:222:PRO:HG3	1.17	1.07
1:B:143:HIS:HB3	1:B:145:LEU:HD11	1.11	1.07
1:B:314:SER:OG	1:B:317:ILE:N	1.88	1.07
1:B:376:VAL:HG12	1:B:378:LEU:HD21	1.07	1.07
1:A:51:GLU:O	1:A:52:LEU:N	1.87	1.07
1:A:89:PHE:CE2	1:A:146:PHE:HD2	1.72	1.07
1:A:131:ILE:O	1:A:134:GLN:N	1.88	1.07
1:A:404:ILE:HD11	1:A:681:ILE:HG23	1.29	1.07
1:A:517:TYR:CE2	1:A:520:TRP:CE3	2.35	1.07
1:A:740:ARG:N	1:A:742:GLU:OE1	1.85	1.07
1:B:472:GLU:O	1:B:476:SER:N	1.87	1.07
1:B:604:ALA:HB2	1:B:698:ILE:HG23	1.37	1.07
1:B:643:ASP:OD2	1:B:666:ARG:HG2	1.48	1.07
1:B:719:ASN:O	1:B:722:ARG:N	1.87	1.07
1:B:729:LEU:HA	1:B:732:LEU:HD13	1.30	1.07
1:A:23:GLY:O	1:A:26:LYS:NZ	1.87	1.07
1:A:127:PRO:CG	1:A:130:ALA:CA	2.32	1.07
1:A:143:HIS:HB2	1:A:145:LEU:HD11	1.36	1.07
1:A:257:LEU:HB3	1:A:261:TRP:CZ3	1.90	1.07
1:A:404:ILE:CD1	1:A:681:ILE:CG2	2.32	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:ARG:NH2	1:A:528:ILE:CD1	2.18	1.07
1:A:744:GLU:CA	1:A:747:THR:HG22	1.84	1.07
1:B:404:ILE:CG2	1:B:737:LEU:HD21	1.69	1.07
1:B:424:VAL:HG23	1:B:430:VAL:HG13	1.30	1.07
1:B:699:VAL:O	1:B:703:ALA:N	1.88	1.07
1:A:5:LYS:O	1:A:9:LEU:N	1.88	1.06
1:A:60:ASN:HA	1:A:156:HIS:CG	1.89	1.06
1:A:250:VAL:HA	1:A:253:VAL:HG12	1.07	1.06
1:A:377:LYS:HB2	1:A:385:ARG:CG	1.85	1.06
1:B:69:LEU:HA	1:B:72:GLN:HB3	1.08	1.06
1:B:132:LEU:HD22	1:B:151:THR:HG23	1.13	1.06
1:B:190:VAL:HG13	1:B:323:GLU:CG	1.84	1.06
1:B:340:THR:O	1:B:342:TYR:CZ	2.08	1.06
1:B:514:GLY:O	1:B:516:LEU:CD1	2.03	1.06
1:B:526:LEU:CD2	1:B:527:ARG:N	2.07	1.06
1:B:597:ILE:CD1	1:B:713:ASP:OD2	2.02	1.06
1:A:82:VAL:HA	1:A:85:LEU:HG	1.08	1.06
1:A:591:ASP:H	1:A:606:VAL:HG12	1.17	1.06
1:A:653:THR:O	1:A:655:ARG:CB	2.03	1.06
1:A:748:LYS:NZ	1:A:752:ASP:OD1	1.87	1.06
1:B:49:THR:HG23	1:B:176:ARG:HG3	1.27	1.06
1:B:257:LEU:HD22	1:B:290:LEU:HG	1.33	1.06
1:B:308:PHE:CZ	1:B:318:ILE:HD13	1.90	1.06
1:B:348:ALA:HB3	1:B:355:PRO:HA	1.07	1.06
1:B:425:SER:HB3	1:B:429:THR:HG23	1.32	1.06
1:A:22:ILE:HA	1:A:299:LYS:HD3	1.37	1.06
1:A:82:VAL:CA	1:A:85:LEU:CD2	2.33	1.06
1:A:257:LEU:HD22	1:A:261:TRP:CZ2	1.90	1.06
1:A:595:VAL:HG11	1:A:698:ILE:HD12	1.36	1.06
1:A:605:GLU:N	1:A:605:GLU:OE1	1.88	1.06
1:A:653:THR:C	1:A:655:ARG:CB	2.27	1.06
1:A:715:HIS:HE2	1:B:376:VAL:HG12	1.15	1.06
1:B:102:ILE:O	1:B:106:LEU:N	1.87	1.06
1:B:199:LEU:O	1:B:202:LEU:CB	2.04	1.06
1:B:288:LEU:CD2	1:B:292:ILE:HD11	1.85	1.06
1:B:506:HIS:HB3	1:B:517:TYR:HE1	0.92	1.06
1:B:577:ILE:CD1	1:B:578:TRP:N	2.18	1.06
1:B:696:SER:HA	1:B:699:VAL:HG23	1.37	1.06
1:A:62:ASP:HB3	1:A:66:TYR:CZ	1.89	1.06
1:A:170:TYR:CG	1:A:576:HIS:CE1	2.42	1.06
1:A:292:ILE:CG2	1:A:295:GLN:HG2	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:566:LEU:HD11	1:A:568:LEU:CD1	1.86	1.06
1:A:735:MET:SD	1:A:736:GLY:N	2.28	1.06
1:B:284:LEU:HD21	1:B:290:LEU:HD23	1.34	1.06
1:B:417:ARG:HH21	1:B:639:TRP:CD1	1.72	1.06
1:B:591:ASP:OD2	1:B:740:ARG:NH1	1.88	1.06
1:A:101:GLU:HA	1:A:104:ARG:CD	1.80	1.06
1:A:666:ARG:HA	1:A:669:GLN:OE1	1.55	1.06
1:B:384:GLN:NE2	1:B:576:HIS:HA	1.71	1.06
1:B:403:PRO:O	1:B:406:ASN:HB2	1.55	1.06
1:B:647:LEU:HD23	1:B:663:ILE:HB	1.30	1.06
1:B:719:ASN:OD1	1:B:720:ARG:NE	1.89	1.06
1:B:753:SER:O	1:B:754:ASN:C	1.94	1.06
1:A:86:VAL:CG1	1:A:191:ARG:HG2	1.85	1.05
1:A:170:TYR:CE2	1:A:576:HIS:NE2	2.24	1.05
1:A:374:THR:HG23	1:A:390:GLU:HG3	1.38	1.05
1:A:408:PHE:CG	1:A:636:TRP:CD1	2.43	1.05
1:A:598:ARG:H	1:A:598:ARG:HD2	1.11	1.05
1:A:644:ASP:OD1	1:A:645:ARG:NH1	1.89	1.05
1:B:53:LEU:HD21	1:B:571:HIS:ND1	1.69	1.05
1:B:156:HIS:NE2	1:B:210:LEU:CD2	2.19	1.05
1:B:358:VAL:HG11	1:B:438:THR:H	1.15	1.05
1:B:361:TYR:CE1	1:B:441:PHE:HE2	1.73	1.05
1:B:493:TYR:CE1	1:B:497:HIS:CE1	2.44	1.05
1:B:686:ILE:O	1:B:689:SER:N	1.87	1.05
1:B:732:LEU:HD23	1:B:733:GLN:HB2	1.32	1.05
1:A:106:LEU:CD2	1:A:135:LEU:CD2	2.34	1.05
1:A:250:VAL:O	1:A:251:SER:C	1.95	1.05
1:A:265:THR:HG23	1:A:267:LYS:HG3	1.37	1.05
1:A:293:ALA:O	1:A:297:MET:N	1.88	1.05
1:B:19:ALA:HB1	1:B:24:GLU:CB	1.85	1.05
1:B:83:ASP:HA	1:B:191:ARG:HG2	1.38	1.05
1:B:83:ASP:OD2	1:B:191:ARG:NH1	1.87	1.05
1:B:260:LEU:CD1	1:B:261:TRP:NE1	2.20	1.05
1:B:602:TYR:CG	1:B:701:GLN:HB3	1.91	1.05
1:B:611:LEU:HD11	1:B:689:SER:OG	1.55	1.05
1:A:42:ARG:CA	1:A:289:ALA:HB3	1.75	1.05
1:A:292:ILE:O	1:A:296:ASP:N	1.88	1.05
1:A:472:GLU:O	1:A:477:ASN:ND2	1.88	1.05
1:A:661:LEU:HD22	1:A:661:LEU:H	1.18	1.05
1:B:67:ALA:O	1:B:71:PHE:N	1.87	1.05
1:B:68:ARG:O	1:B:72:GLN:N	1.87	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:ALA:O	1:B:77:GLY:N	1.89	1.05
1:A:234:THR:C	1:A:237:PHE:HB3	1.79	1.05
1:A:352:MET:HE1	1:A:428:GLY:H	1.22	1.05
1:A:359:VAL:HA	1:A:438:THR:CA	1.84	1.05
1:A:361:TYR:CE1	1:A:414:VAL:HG21	1.91	1.05
1:B:204:SER:O	1:B:208:LYS:HB2	1.56	1.05
1:B:308:PHE:CE2	1:B:318:ILE:HG12	1.84	1.05
1:B:321:PHE:CD1	1:B:322:ILE:N	2.25	1.05
1:B:341:SER:O	1:B:342:TYR:CD2	2.10	1.05
1:B:404:ILE:HG23	1:B:737:LEU:HD23	1.37	1.05
1:A:289:ALA:O	1:A:291:PHE:N	1.88	1.05
1:B:504:SER:HB3	1:B:517:TYR:CD2	1.92	1.05
1:B:699:VAL:HA	1:B:702:MET:HB2	1.38	1.05
1:A:9:LEU:CD2	1:A:10:ASN:H	1.69	1.04
1:A:73:TYR:OH	1:A:143:HIS:HB3	1.56	1.04
1:A:101:GLU:C	1:A:103:TRP:H	1.39	1.04
1:A:177:THR:CA	1:A:447:ARG:HH22	1.70	1.04
1:A:265:THR:OG1	1:A:267:LYS:N	1.89	1.04
1:A:735:MET:HE3	1:A:737:LEU:HB2	1.06	1.04
1:B:92:TYR:CD2	1:B:146:PHE:CG	2.44	1.04
1:B:94:GLN:HB2	1:B:237:PHE:HZ	1.12	1.04
1:B:126:VAL:H	1:B:127:PRO:CD	1.67	1.04
1:B:205:VAL:HG11	1:B:232:ALA:HB3	1.35	1.04
1:A:292:ILE:HG23	1:A:295:GLN:CB	1.84	1.04
1:A:338:GLU:O	1:A:341:SER:N	1.90	1.04
1:A:344:GLY:O	1:A:360:VAL:HB	0.87	1.04
1:B:471:LEU:HD12	1:B:476:SER:HA	1.38	1.04
1:A:10:ASN:OD1	1:A:14:ARG:HG3	1.57	1.04
1:A:197:ARG:O	1:A:199:LEU:N	1.72	1.04
1:A:337:ASN:HA	1:A:340:THR:HG23	1.34	1.04
1:A:365:GLN:NE2	1:A:367:ALA:O	1.88	1.04
1:A:387:LEU:HD11	1:A:577:ILE:HG12	1.06	1.04
1:A:445:VAL:HG13	1:A:456:MET:HB3	1.10	1.04
1:B:401:LEU:O	1:B:404:ILE:CA	2.04	1.04
1:A:178:ALA:HB1	1:A:485:ASN:CG	1.82	1.04
1:A:250:VAL:O	1:A:253:VAL:N	1.90	1.04
1:A:36:LEU:CB	1:A:263:PRO:HA	1.87	1.04
1:A:187:VAL:CG1	1:A:247:ASN:N	2.20	1.04
1:A:275:LEU:HB3	1:A:276:ARG:HD3	1.07	1.04
1:A:448:ASP:O	1:A:453:ARG:N	1.89	1.04
1:B:126:VAL:HG12	1:B:127:PRO:HD3	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:540:ILE:HG22	1:B:542:THR:HG22	1.39	1.04
1:B:542:THR:HG21	1:B:547:GLU:HB3	1.38	1.04
1:B:614:LEU:CD1	1:B:615:GLY:H	1.68	1.04
1:A:408:PHE:CD2	1:A:636:TRP:CD1	2.46	1.03
1:A:739:SER:O	1:A:740:ARG:HB2	1.53	1.03
1:B:3:ASN:HB2	1:B:436:GLU:CG	1.88	1.03
1:B:37:PRO:C	1:B:38:LEU:HD13	1.83	1.03
1:B:107:THR:HA	1:B:110:ILE:HD12	1.38	1.03
1:B:163:PHE:HB3	1:B:164:ILE:CG2	1.88	1.03
1:A:268:GLU:OE2	1:A:269:LEU:CD1	2.07	1.03
1:A:349:ILE:HG21	1:A:354:GLN:HA	1.38	1.03
1:A:393:ILE:HG22	1:A:612:LEU:HD11	1.40	1.03
1:A:408:PHE:CZ	1:A:636:TRP:CE2	2.40	1.03
1:B:158:LEU:HD12	1:B:210:LEU:HB3	1.39	1.03
1:B:350:ASP:HA	1:B:427:ARG:O	1.52	1.03
1:A:147:HIS:O	1:A:151:THR:HG23	1.58	1.03
1:A:148:HIS:CE1	1:A:578:TRP:CH2	2.45	1.03
1:A:346:THR:CG2	1:A:358:VAL:C	2.31	1.03
1:A:735:MET:CE	1:A:737:LEU:HB2	1.89	1.03
1:B:3:ASN:HB2	1:B:436:GLU:HG2	1.05	1.03
1:B:521:ASN:HB2	1:B:541:ARG:HD3	1.37	1.03
1:B:696:SER:HA	1:B:699:VAL:CG2	1.89	1.03
1:A:60:ASN:HA	1:A:156:HIS:ND1	1.67	1.03
1:A:387:LEU:CD1	1:A:577:ILE:HG12	1.89	1.03
1:B:156:HIS:HD2	1:B:158:LEU:N	1.41	1.03
1:B:321:PHE:HA	1:B:325:MET:CE	1.88	1.03
1:B:643:ASP:OD2	1:B:666:ARG:HG3	1.58	1.03
1:A:44:PHE:CZ	1:A:290:LEU:HD23	1.93	1.03
1:A:259:ARG:CG	1:A:269:LEU:HD13	1.89	1.03
1:A:566:LEU:CD1	1:A:568:LEU:CG	2.30	1.03
1:B:54:TRP:N	1:B:172:TYR:C	2.15	1.03
1:A:72:GLN:NE2	1:A:173:ARG:O	1.92	1.02
1:A:101:GLU:CB	1:A:104:ARG:HD3	1.89	1.02
1:A:338:GLU:HA	1:A:341:SER:HB2	1.40	1.02
1:A:566:LEU:HD11	1:A:568:LEU:HG	1.04	1.02
1:A:572:THR:O	1:A:575:ILE:N	1.92	1.02
1:A:739:SER:O	1:A:740:ARG:CB	2.04	1.02
1:B:4:LEU:HB3	1:B:5:LYS:HB2	1.36	1.02
1:B:40:PHE:CE2	1:B:495:VAL:HG12	1.94	1.02
1:B:436:GLU:OE1	1:B:666:ARG:NH2	1.92	1.02
1:B:597:ILE:HB	1:B:714:LEU:CD2	1.89	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:GLU:CB	1:A:147:HIS:HB2	1.88	1.02
1:A:523:ARG:HD3	1:A:524:THR:C	1.83	1.02
1:A:566:LEU:HD12	1:A:568:LEU:N	1.75	1.02
1:A:593:TYR:N	1:A:604:ALA:O	1.90	1.02
1:A:630:HIS:HB2	1:A:737:LEU:HG	1.26	1.02
1:B:598:ARG:NH2	1:B:710:ASP:OD1	1.92	1.02
1:B:623:ILE:HG23	1:B:625:LYS:HG3	1.38	1.02
1:B:654:SER:HB2	1:B:659:GLU:CG	1.88	1.02
1:B:702:MET:SD	1:B:714:LEU:CD1	2.46	1.02
1:A:476:SER:HA	1:A:479:LEU:HD13	1.42	1.02
1:A:715:HIS:CD2	1:B:376:VAL:CG1	2.40	1.02
1:B:128:PRO:HA	1:B:131:ILE:CB	1.87	1.02
1:B:345:GLN:HB3	1:B:554:PRO:HA	1.38	1.02
1:A:106:LEU:HD21	1:A:135:LEU:HD23	1.07	1.02
1:A:177:THR:HA	1:A:447:ARG:CZ	1.88	1.02
1:A:435:ALA:HB3	1:A:437:MET:HG3	1.05	1.02
1:A:492:HIS:HA	1:A:495:VAL:HG23	1.40	1.02
1:B:9:LEU:H	1:B:9:LEU:HD12	1.22	1.02
1:B:80:LEU:HD11	1:B:84:GLU:HG3	1.40	1.02
1:B:312:GLU:O	1:B:316:THR:N	1.91	1.02
1:B:376:VAL:HG22	1:B:386:PHE:O	1.21	1.02
1:B:493:TYR:HE1	1:B:497:HIS:CE1	1.77	1.02
1:B:617:ARG:N	1:B:618:ARG:HA	1.67	1.02
1:A:22:ILE:CA	1:A:299:LYS:HD3	1.89	1.02
1:A:44:PHE:HB2	1:A:333:LEU:CA	1.89	1.02
1:A:81:SER:C	1:A:85:LEU:HD23	1.85	1.02
1:A:127:PRO:CG	1:A:130:ALA:HB3	1.89	1.02
1:A:337:ASN:HA	1:A:340:THR:CG2	1.90	1.02
1:A:353:GLY:N	1:A:354:GLN:OE1	1.92	1.02
1:B:54:TRP:CE3	1:B:54:TRP:HA	1.93	1.02
1:B:182:ASN:CB	1:B:484:PHE:CE1	2.43	1.02
1:B:275:LEU:HD11	1:B:316:THR:CA	1.89	1.02
1:B:298:VAL:O	1:B:302:GLY:N	1.92	1.02
1:A:63:PRO:C	1:A:200:THR:OG1	2.03	1.01
1:A:177:THR:CA	1:A:447:ARG:NH2	2.22	1.01
1:A:195:LEU:CD2	1:A:199:LEU:CG	2.38	1.01
1:A:257:LEU:HD22	1:A:288:LEU:HD12	1.40	1.01
1:A:272:SER:N	1:A:276:ARG:NE	2.07	1.01
1:A:346:THR:HG21	1:A:359:VAL:CA	1.90	1.01
1:A:502:VAL:HA	1:A:503:VAL:CG1	1.89	1.01
1:B:14:ARG:HB2	1:B:465:GLY:HA2	1.37	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:PHE:CD2	1:B:329:SER:HA	1.94	1.01
1:B:141:SER:HB2	1:B:147:HIS:HB2	1.41	1.01
1:A:116:ARG:CG	1:A:222:PRO:O	2.06	1.01
1:A:144:GLU:HB2	1:A:147:HIS:CB	1.88	1.01
1:A:292:ILE:HG22	1:A:295:GLN:CB	1.88	1.01
1:A:524:THR:HG23	1:A:539:SER:HA	1.02	1.01
1:B:43:THR:HG22	1:B:289:ALA:CB	1.90	1.01
1:B:89:PHE:HA	1:B:146:PHE:CE2	1.95	1.01
1:B:334:ARG:HD3	1:B:335:PRO:CD	1.89	1.01
1:B:372:ALA:O	1:B:373:PHE:CD1	2.14	1.01
1:B:597:ILE:HG13	1:B:714:LEU:HA	1.38	1.01
1:B:610:GLU:HG2	1:B:614:LEU:O	1.61	1.01
1:A:6:VAL:HG12	1:A:531:GLY:HA2	1.43	1.01
1:A:81:SER:C	1:A:85:LEU:CD2	2.33	1.01
1:A:133:GLU:OE1	1:A:136:ARG:HG2	1.58	1.01
1:A:276:ARG:HA	1:A:278:THR:CG2	1.91	1.01
1:A:388:ASP:CG	1:A:389:VAL:H	1.63	1.01
1:A:492:HIS:HA	1:A:495:VAL:CG2	1.91	1.01
1:A:523:ARG:CD	1:A:524:THR:N	2.22	1.01
1:A:527:ARG:HH11	1:A:527:ARG:HA	1.25	1.01
1:B:314:SER:HB2	1:B:317:ILE:HB	1.42	1.01
1:B:415:LYS:NZ	1:B:419:ALA:HB2	1.75	1.01
1:A:179:THR:O	1:A:332:LYS:NZ	1.94	1.01
1:A:193:SER:CA	1:A:196:ARG:HB2	1.89	1.01
1:A:195:LEU:HD23	1:A:199:LEU:HG	1.39	1.01
1:A:441:PHE:HB3	1:A:443:SER:OG	1.61	1.01
1:B:56:VAL:HB	1:B:148:HIS:CE1	1.96	1.01
1:B:61:ILE:HG22	1:B:62:ASP:H	1.23	1.01
1:B:94:GLN:CB	1:B:237:PHE:CZ	2.41	1.01
1:B:153:PHE:CZ	1:B:202:LEU:HB3	1.95	1.01
1:B:317:ILE:O	1:B:320:TRP:N	1.93	1.01
1:B:451:LEU:HG	1:B:453:ARG:CZ	1.90	1.01
1:A:40:PHE:CE1	1:A:289:ALA:HB1	1.93	1.01
1:A:257:LEU:HD13	1:A:261:TRP:HH2	1.23	1.01
1:A:352:MET:HB2	1:A:355:PRO:CD	1.91	1.01
1:B:345:GLN:CB	1:B:554:PRO:HA	1.91	1.01
1:A:178:ALA:CB	1:A:485:ASN:OD1	2.08	1.00
1:A:259:ARG:O	1:A:262:SER:OG	1.77	1.00
1:A:444:VAL:O	1:A:446:GLU:N	1.93	1.00
1:B:25:LEU:O	1:B:27:ASN:ND2	1.94	1.00
1:B:54:TRP:H	1:B:172:TYR:C	1.68	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:HIS:CB	1:B:145:LEU:HD11	1.72	1.00
1:B:183:PHE:CE1	1:B:250:VAL:HG12	1.96	1.00
1:B:346:THR:HG23	1:B:359:VAL:HG11	1.01	1.00
1:B:570:ASN:HD22	1:B:571:HIS:HD2	1.08	1.00
1:A:60:ASN:C	1:A:156:HIS:CD2	2.11	1.00
1:A:73:TYR:CE2	1:A:143:HIS:HB3	1.94	1.00
1:A:99:ASN:CG	1:A:101:GLU:OE1	2.02	1.00
1:A:597:ILE:CD1	1:A:598:ARG:HD3	1.91	1.00
1:B:45:SER:CB	1:B:181:PRO:HD3	1.92	1.00
1:B:128:PRO:HA	1:B:131:ILE:HB	1.43	1.00
1:B:200:THR:O	1:B:204:SER:N	1.94	1.00
1:B:368:LYS:H	1:B:368:LYS:HD2	1.26	1.00
1:B:445:VAL:HG11	1:B:635:MET:SD	2.02	1.00
1:B:637:TYR:HA	1:B:640:PHE:CD2	1.96	1.00
1:A:159:SER:HB2	1:A:164:ILE:HA	1.40	1.00
1:A:187:VAL:HG11	1:A:247:ASN:CA	1.91	1.00
1:A:448:ASP:HB2	1:A:455:PRO:HD3	1.41	1.00
1:A:524:THR:HG21	1:A:540:ILE:HG12	1.43	1.00
1:A:744:GLU:OE1	1:A:747:THR:CG2	2.09	1.00
1:B:181:PRO:HB3	1:B:331:PHE:CE2	1.96	1.00
1:B:384:GLN:HE22	1:B:576:HIS:HA	1.21	1.00
1:B:571:HIS:O	1:B:574:SER:N	1.93	1.00
1:A:48:MET:N	1:A:48:MET:SD	2.34	1.00
1:A:61:ILE:CB	1:A:156:HIS:CD2	2.44	1.00
1:A:393:ILE:HG22	1:A:612:LEU:CD1	1.92	1.00
1:A:404:ILE:HD12	1:A:681:ILE:HG23	1.41	1.00
1:B:53:LEU:HD11	1:B:571:HIS:ND1	1.77	1.00
1:B:341:SER:O	1:B:342:TYR:CG	2.14	1.00
1:B:94:GLN:CB	1:B:237:PHE:HZ	1.71	1.00
1:B:376:VAL:HG12	1:B:378:LEU:CD2	1.91	1.00
1:B:472:GLU:N	1:B:475:ALA:HB3	1.76	1.00
1:A:36:LEU:H	1:A:263:PRO:HB3	0.86	1.00
1:B:245:ASP:HB3	1:B:248:ALA:HB3	1.42	1.00
1:B:448:ASP:O	1:B:451:LEU:N	1.93	1.00
1:B:530:VAL:O	1:B:533:ASN:ND2	1.93	1.00
1:A:44:PHE:HB2	1:A:333:LEU:HA	1.02	1.00
1:A:75:GLN:OE1	1:A:177:THR:OG1	1.77	1.00
1:A:557:PRO:HB2	1:A:558:SER:O	1.61	1.00
1:B:44:PHE:CE1	1:B:333:LEU:HD22	1.97	1.00
1:B:456:MET:HE2	1:B:637:TYR:OH	1.60	1.00
1:B:740:ARG:HG3	1:B:741:SER:H	1.25	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:343:ILE:O	1:B:555:ILE:HG13	1.60	0.99
1:B:424:VAL:O	1:B:430:VAL:CA	2.10	0.99
1:A:177:THR:CB	1:A:447:ARG:NH2	2.24	0.99
1:A:597:ILE:HD12	1:A:598:ARG:N	1.76	0.99
1:B:43:THR:HG22	1:B:289:ALA:HB3	1.43	0.99
1:B:346:THR:HG23	1:B:359:VAL:CG1	1.92	0.99
1:B:407:THR:HG23	1:B:408:PHE:HD2	1.22	0.99
1:B:467:VAL:HG21	1:B:479:LEU:CD1	1.92	0.99
1:B:540:ILE:CD1	1:B:551:TYR:HB2	1.92	0.99
1:A:59:GLY:HA3	1:A:155:CYS:HB3	1.43	0.99
1:A:332:LYS:CE	1:A:339:THR:HG21	1.92	0.99
1:A:384:GLN:HB3	1:A:578:TRP:NE1	1.77	0.99
1:A:630:HIS:HB2	1:A:737:LEU:HD21	1.41	0.99
1:B:54:TRP:CD1	1:B:69:LEU:HD11	1.97	0.99
1:A:678:ILE:HG21	1:A:725:ILE:HD13	1.44	0.99
1:B:106:LEU:O	1:B:107:THR:C	2.03	0.99
1:B:144:GLU:OE1	1:B:145:LEU:N	1.96	0.99
1:A:86:VAL:CB	1:A:191:ARG:CD	2.41	0.99
1:A:128:PRO:HD3	1:A:166:PRO:HB2	1.43	0.99
1:A:523:ARG:NE	1:A:524:THR:O	1.94	0.99
1:B:18:GLN:HG3	1:B:487:TYR:OH	1.59	0.99
1:B:125:LYS:H	1:B:165:LEU:CD1	1.75	0.99
1:B:408:PHE:HD1	1:B:636:TRP:CD1	1.63	0.99
1:A:24:GLU:HG3	1:A:26:LYS:CB	1.92	0.99
1:B:46:ALA:HB3	1:B:179:THR:CA	1.91	0.99
1:B:467:VAL:CG2	1:B:479:LEU:CD1	2.40	0.99
1:A:9:LEU:HD23	1:A:10:ASN:H	0.87	0.99
1:A:22:ILE:HG22	1:A:23:GLY:H	1.24	0.99
1:A:254:LEU:HD13	1:A:293:ALA:HB1	1.40	0.99
1:B:80:LEU:CD1	1:B:84:GLU:HG3	1.92	0.99
1:B:93:HIS:CB	1:B:237:PHE:CD1	2.45	0.99
1:B:281:ILE:HB	1:B:284:LEU:HD22	1.43	0.99
1:B:346:THR:CG2	1:B:359:VAL:HG11	1.91	0.99
1:B:348:ALA:HB3	1:B:355:PRO:CA	1.91	0.99
1:B:642:GLU:CB	1:B:645:ARG:NH1	2.10	0.99
1:A:196:ARG:HD2	1:A:328:VAL:HG13	1.40	0.99
1:A:346:THR:CG2	1:A:359:VAL:N	2.25	0.99
1:A:653:THR:O	1:A:655:ARG:HB2	1.62	0.99
1:B:19:ALA:O	1:B:23:GLY:N	1.95	0.99
1:B:54:TRP:CD1	1:B:69:LEU:HD21	1.98	0.99
1:B:740:ARG:CG	1:B:741:SER:H	1.73	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:417:ARG:HA	1:A:643:ASP:OD2	1.63	0.99
1:B:348:ALA:N	1:B:355:PRO:HB3	1.78	0.99
1:B:552:ASN:HA	1:B:553:LYS:HE2	1.43	0.99
1:B:570:ASN:ND2	1:B:571:HIS:HD2	1.60	0.99
1:B:607:LYS:HB3	1:B:608:GLU:HB3	1.42	0.99
1:A:44:PHE:CB	1:A:333:LEU:HA	1.92	0.98
1:A:136:ARG:CB	1:A:147:HIS:NE2	2.25	0.98
1:A:213:THR:HG1	1:A:215:LYS:HB3	1.23	0.98
1:A:262:SER:O	1:A:263:PRO:C	2.04	0.98
1:A:282:ASP:O	1:A:285:ARG:HB3	1.63	0.98
1:A:360:VAL:N	1:A:438:THR:O	1.96	0.98
1:A:521:ASN:ND2	1:A:539:SER:HB3	1.76	0.98
1:B:19:ALA:HA	1:B:22:ILE:HB	1.42	0.98
1:B:184:TYR:HA	1:B:187:VAL:HG22	1.45	0.98
1:B:332:LYS:HD2	1:B:334:ARG:HH21	1.28	0.98
1:B:361:TYR:CD2	1:B:414:VAL:HG11	1.98	0.98
1:A:435:ALA:CB	1:A:437:MET:HG3	1.92	0.98
1:B:7:LYS:HD2	1:B:531:GLY:CA	1.92	0.98
1:B:416:ASN:HD21	1:B:673:THR:CG2	1.74	0.98
1:B:519:VAL:HG12	1:B:543:PRO:CB	1.93	0.98
1:A:292:ILE:CG2	1:A:295:GLN:CG	2.40	0.98
1:A:468:ASP:C	1:A:469:GLU:HG2	1.88	0.98
1:B:602:TYR:HB3	1:B:701:GLN:CG	1.94	0.98
1:A:215:LYS:O	1:A:215:LYS:NZ	1.95	0.98
1:A:234:THR:HA	1:A:237:PHE:CB	1.91	0.98
1:A:555:ILE:HG12	1:A:556:GLN:H	1.22	0.98
1:B:310:ASP:O	1:B:315:SER:N	1.97	0.98
1:B:416:ASN:HD22	1:B:673:THR:HG21	1.20	0.98
1:B:580:TRP:CH2	1:B:583:ALA:HB2	1.97	0.98
1:A:435:ALA:HB3	1:A:437:MET:CG	1.93	0.98
1:A:553:LYS:HG3	1:A:554:PRO:HD2	1.45	0.98
1:A:609:PHE:O	1:A:613:GLY:N	1.95	0.98
1:A:136:ARG:HB2	1:A:147:HIS:CD2	1.98	0.98
1:A:332:LYS:HE3	1:A:339:THR:CG2	1.93	0.98
1:A:517:TYR:CD2	1:A:520:TRP:CH2	2.50	0.98
1:B:67:ALA:HA	1:B:70:PHE:HB2	1.42	0.98
1:B:123:VAL:HA	1:B:164:ILE:CG2	1.93	0.98
1:B:376:VAL:N	1:B:386:PHE:O	1.97	0.98
1:B:674:LEU:HD12	1:B:749:VAL:HG11	1.46	0.98
1:A:187:VAL:CG1	1:A:247:ASN:CA	2.41	0.98
1:B:216:ALA:HA	1:B:217:LYS:HG3	1.43	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:ALA:HA	1:B:239:ARG:CG	1.94	0.98
1:B:245:ASP:HB3	1:B:248:ALA:HB2	1.43	0.98
1:B:274:ARG:HH11	1:B:274:ARG:H	1.00	0.98
1:B:401:LEU:CD2	1:B:404:ILE:HD12	1.93	0.98
1:B:504:SER:N	1:B:517:TYR:O	1.95	0.98
1:B:642:GLU:HB2	1:B:645:ARG:HH12	1.27	0.98
1:A:24:GLU:C	1:A:26:LYS:HB2	1.88	0.98
1:A:177:THR:CG2	1:A:447:ARG:NH2	2.27	0.98
1:B:72:GLN:O	1:B:76:ALA:N	1.96	0.98
1:B:97:ALA:HA	1:B:234:THR:HG21	1.43	0.98
1:B:132:LEU:HD22	1:B:151:THR:CG2	1.94	0.98
1:B:133:GLU:OE1	1:B:147:HIS:NE2	1.95	0.98
1:B:580:TRP:CE2	1:B:581:HIS:CG	2.51	0.98
1:B:642:GLU:CA	1:B:645:ARG:HH12	1.52	0.98
1:B:647:LEU:HD21	1:B:663:ILE:CB	1.92	0.98
1:A:346:THR:CG2	1:A:359:VAL:CA	2.41	0.98
1:A:630:HIS:HB2	1:A:737:LEU:CD1	1.92	0.98
1:B:37:PRO:HG2	1:B:261:TRP:HZ3	1.26	0.98
1:B:38:LEU:CG	1:B:501:VAL:HB	1.93	0.98
1:B:83:ASP:CG	1:B:191:ARG:HD2	1.88	0.98
1:B:245:ASP:CB	1:B:248:ALA:HB2	1.94	0.98
1:B:254:LEU:HD21	1:B:297:MET:HB3	1.44	0.98
1:B:378:LEU:HD12	1:B:379:ALA:H	1.26	0.98
1:B:471:LEU:HB2	1:B:476:SER:CA	1.93	0.98
1:B:642:GLU:CG	1:B:645:ARG:NH2	2.27	0.98
1:A:496:ALA:O	1:A:497:HIS:CB	2.09	0.97
1:B:153:PHE:O	1:B:156:HIS:N	1.96	0.97
1:B:294:TYR:CE2	1:B:516:LEU:HD21	1.98	0.97
1:B:317:ILE:HA	1:B:320:TRP:CD1	1.99	0.97
1:B:342:TYR:HD2	1:B:559:GLU:HG2	1.26	0.97
1:A:346:THR:CG2	1:A:438:THR:OG1	2.12	0.97
1:A:347:SER:CB	1:A:554:PRO:HB3	1.93	0.97
1:B:497:HIS:HB3	1:B:549:ILE:HD13	1.42	0.97
1:B:607:LYS:C	1:B:609:PHE:CB	2.38	0.97
1:A:46:ALA:HB3	1:A:334:ARG:HH22	1.28	0.97
1:A:732:LEU:CG	1:A:738:LEU:CD2	2.34	0.97
1:B:288:LEU:CD2	1:B:495:VAL:HG21	1.93	0.97
1:B:471:LEU:CD1	1:B:476:SER:HA	1.93	0.97
1:B:678:ILE:HD13	1:B:725:ILE:HG12	1.47	0.97
1:A:52:LEU:CA	1:A:53:LEU:HD23	1.94	0.97
1:A:115:ASN:O	1:A:116:ARG:HD3	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:PRO:CA	1:A:166:PRO:CB	2.20	0.97
1:A:580:TRP:CD2	1:A:581:HIS:HA	1.99	0.97
1:B:408:PHE:CD1	1:B:413:PHE:HE2	1.73	0.97
1:B:501:VAL:HG11	1:B:518:LEU:CB	1.93	0.97
1:B:522:VAL:N	1:B:539:SER:HB3	1.77	0.97
1:B:602:TYR:HB3	1:B:701:GLN:HG3	1.43	0.97
1:B:642:GLU:HG3	1:B:645:ARG:NH2	1.78	0.97
1:A:346:THR:HG22	1:A:360:VAL:N	1.78	0.97
1:A:541:ARG:NE	1:A:542:THR:HA	1.77	0.97
1:B:180:TYR:CZ	1:B:492:HIS:ND1	2.33	0.97
1:B:362:GLU:CG	1:B:635:MET:HE2	1.94	0.97
1:B:364:TRP:NE1	1:B:628:VAL:HG13	1.77	0.97
1:B:600:LYS:HB2	1:B:602:TYR:CZ	1.99	0.97
1:A:159:SER:CB	1:A:164:ILE:HA	1.93	0.97
1:A:587:PHE:CZ	1:A:621:VAL:HG11	1.72	0.97
1:A:740:ARG:H	1:A:742:GLU:CD	1.71	0.97
1:B:42:ARG:NE	1:B:336:ILE:HA	1.80	0.97
1:B:84:GLU:O	1:B:87:ASN:ND2	1.97	0.97
1:B:92:TYR:CE1	1:B:139:ALA:HB1	1.98	0.97
1:B:246:ALA:O	1:B:250:VAL:HG23	1.64	0.97
1:B:348:ALA:H	1:B:355:PRO:HB3	1.29	0.97
1:B:356:SER:HB2	1:B:435:ALA:CB	1.95	0.97
1:B:506:HIS:HB3	1:B:517:TYR:CE1	1.78	0.97
1:A:99:ASN:CG	1:A:101:GLU:CD	2.32	0.97
1:A:132:LEU:HG	1:A:151:THR:HG21	1.47	0.97
1:A:520:TRP:CE3	1:A:545:PRO:HG3	1.98	0.97
1:A:582:GLU:O	1:A:625:LYS:NZ	1.96	0.97
1:A:732:LEU:HG	1:A:738:LEU:CD2	1.95	0.97
1:B:702:MET:SD	1:B:714:LEU:HB2	2.05	0.97
1:A:22:ILE:C	1:A:299:LYS:HD3	1.88	0.97
1:A:183:PHE:CE2	1:A:184:TYR:CE1	2.51	0.97
1:A:345:GLN:HB3	1:A:556:GLN:HA	1.46	0.97
1:A:674:LEU:HA	1:A:677:LYS:NZ	1.80	0.97
1:B:156:HIS:CG	1:B:157:VAL:N	2.24	0.97
1:B:202:LEU:HD11	1:B:236:ALA:HB1	1.46	0.97
1:B:208:LYS:HA	1:B:208:LYS:NZ	1.79	0.97
1:B:259:ARG:HA	1:B:269:LEU:CD2	1.95	0.97
1:B:375:PRO:O	1:B:377:LYS:N	1.96	0.97
1:A:44:PHE:CE1	1:A:290:LEU:HD23	1.99	0.96
1:A:51:GLU:CB	1:A:174:VAL:HG21	1.94	0.96
1:A:259:ARG:HB3	1:A:266:PRO:HB3	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:TRP:HZ2	1:A:442:PRO:HG3	1.26	0.96
1:A:448:ASP:CB	1:A:453:ARG:HB2	1.95	0.96
1:A:653:THR:HA	1:A:655:ARG:CG	1.95	0.96
1:B:686:ILE:HG13	1:B:687:GLY:N	1.76	0.96
1:A:59:GLY:HA3	1:A:155:CYS:CB	1.96	0.96
1:A:61:ILE:HG12	1:A:66:TYR:HE2	1.27	0.96
1:A:177:THR:HG23	1:A:447:ARG:HH21	1.14	0.96
1:A:272:SER:N	1:A:276:ARG:HD2	1.78	0.96
1:A:275:LEU:HB3	1:A:276:ARG:CD	1.93	0.96
1:A:342:TYR:HA	1:A:559:GLU:HG2	0.98	0.96
1:B:143:HIS:HB3	1:B:145:LEU:CD1	1.95	0.96
1:B:649:ALA:O	1:B:653:THR:HG23	1.62	0.96
1:A:2:PHE:O	1:A:439:LEU:HD11	1.65	0.96
1:A:101:GLU:C	1:A:103:TRP:N	2.19	0.96
1:A:346:THR:HG21	1:A:358:VAL:O	1.63	0.96
1:A:715:HIS:HD2	1:B:376:VAL:HG11	1.13	0.96
1:B:21:ALA:HB1	1:B:295:GLN:HG3	1.46	0.96
1:B:57:GLY:H	1:B:58:LYS:HZ3	1.08	0.96
1:B:362:GLU:OE1	1:B:442:PRO:HG3	1.65	0.96
1:A:20:PHE:O	1:A:22:ILE:O	1.82	0.96
1:B:620:ARG:O	1:B:621:VAL:CG1	2.13	0.96
1:B:735:MET:CB	1:B:737:LEU:HD13	1.93	0.96
1:A:110:ILE:C	1:A:112:GLY:H	1.53	0.96
1:B:152:ASP:OD1	1:B:153:PHE:N	1.96	0.96
1:B:302:GLY:CA	1:B:303:ARG:NH1	2.27	0.96
1:B:401:LEU:HA	1:B:404:ILE:HG13	0.98	0.96
1:B:422:GLU:CG	1:B:426:GLN:HG3	1.96	0.96
1:A:232:ALA:O	1:A:236:ALA:N	1.98	0.96
1:A:528:ILE:HD12	1:A:528:ILE:H	1.27	0.96
1:A:585:THR:HB	1:A:586:GLU:HA	1.47	0.96
1:A:732:LEU:O	1:A:738:LEU:HD21	1.65	0.96
1:B:8:ASP:OD2	1:B:11:GLY:N	1.98	0.96
1:B:245:ASP:CB	1:B:248:ALA:CB	2.44	0.96
1:A:4:LEU:N	1:A:436:GLU:HB2	1.78	0.96
1:A:420:VAL:HG21	1:A:643:ASP:OD2	1.63	0.96
1:B:14:ARG:NH2	1:B:26:LYS:HA	1.80	0.96
1:B:49:THR:HG23	1:B:176:ARG:CG	1.96	0.96
1:B:117:ALA:CB	1:B:222:PRO:HG2	1.96	0.96
1:B:171:VAL:CG1	1:B:577:ILE:HA	1.94	0.96
1:B:633:ILE:CG2	1:B:738:LEU:HD11	1.96	0.96
1:A:176:ARG:NH1	1:A:446:GLU:O	1.84	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:448:ASP:HB3	1:A:453:ARG:HB2	1.44	0.96
1:B:159:SER:OG	1:B:163:PHE:N	1.98	0.96
1:B:321:PHE:HE1	1:B:322:ILE:O	1.47	0.96
1:B:321:PHE:HE1	1:B:325:MET:HG2	1.17	0.96
1:A:51:GLU:HB3	1:A:174:VAL:HG21	1.48	0.96
1:A:387:LEU:HD11	1:A:577:ILE:CG1	1.94	0.96
1:B:69:LEU:CA	1:B:72:GLN:HB3	1.95	0.96
1:B:351:HIS:HB3	1:B:428:GLY:HA2	1.47	0.96
1:B:471:LEU:HB2	1:B:476:SER:HA	1.48	0.96
1:B:597:ILE:HG21	1:B:714:LEU:N	1.80	0.96
1:A:99:ASN:OD1	1:A:101:GLU:CD	2.07	0.96
1:A:143:HIS:O	1:A:145:LEU:HD12	1.65	0.96
1:B:14:ARG:HH21	1:B:26:LYS:HA	1.29	0.96
1:B:255:THR:CG2	1:B:303:ARG:O	2.14	0.96
1:B:289:ALA:CA	1:B:292:ILE:HD13	1.95	0.96
1:B:292:ILE:HA	1:B:295:GLN:NE2	1.80	0.96
1:B:366:PHE:CE2	1:B:405:GLY:HA2	1.99	0.96
1:B:729:LEU:HD22	1:B:732:LEU:CD1	1.95	0.96
1:B:732:LEU:CD2	1:B:733:GLN:HB2	1.94	0.96
1:A:313:LEU:HA	1:A:315:SER:HB3	1.45	0.95
1:B:417:ARG:NH2	1:B:639:TRP:CG	2.25	0.95
1:B:707:LEU:HD13	1:B:708:ILE:N	1.81	0.95
1:A:119:LYS:CA	1:A:219:ALA:HA	1.95	0.95
1:A:169:ALA:C	1:A:575:ILE:HG21	1.90	0.95
1:A:180:TYR:CG	1:A:331:PHE:HB3	2.01	0.95
1:A:346:THR:OG1	1:A:358:VAL:CB	2.14	0.95
1:A:493:TYR:CE2	1:A:549:ILE:HG21	2.01	0.95
1:A:580:TRP:CG	1:A:581:HIS:HA	2.02	0.95
1:A:732:LEU:HD12	1:A:738:LEU:HD22	1.02	0.95
1:B:35:GLN:HG2	1:B:502:VAL:HG23	1.48	0.95
1:B:497:HIS:CG	1:B:549:ILE:HD12	1.75	0.95
1:A:182:ASN:HA	1:A:484:PHE:CE2	2.01	0.95
1:A:597:ILE:CD1	1:A:598:ARG:CD	2.44	0.95
1:B:647:LEU:CD2	1:B:663:ILE:CB	2.43	0.95
1:A:12:SER:HB3	1:A:463:ARG:HH21	1.30	0.95
1:A:258:GLY:HA2	1:A:261:TRP:HE3	1.29	0.95
1:A:349:ILE:HG12	1:A:354:GLN:C	1.91	0.95
1:A:587:PHE:HZ	1:A:621:VAL:HG11	0.79	0.95
1:B:5:LYS:C	1:B:435:ALA:HB3	1.92	0.95
1:B:125:LYS:H	1:B:165:LEU:HD11	1.29	0.95
1:A:294:TYR:CZ	1:A:516:LEU:HG	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:566:LEU:HD13	1:A:568:LEU:HG	1.47	0.95
1:A:708:ILE:O	1:A:711:SER:OG	1.85	0.95
1:B:107:THR:HA	1:B:110:ILE:CD1	1.95	0.95
1:B:491:MET:HA	1:B:491:MET:HE3	1.44	0.95
1:A:548:ALA:O	1:A:552:ASN:CA	2.14	0.95
1:A:597:ILE:HG12	1:A:602:TYR:CE1	2.00	0.95
1:B:308:PHE:HZ	1:B:318:ILE:CB	1.74	0.95
1:B:417:ARG:NH2	1:B:639:TRP:CD1	2.34	0.95
1:B:118:ILE:O	1:B:222:PRO:HD3	1.65	0.95
1:B:506:HIS:CA	1:B:517:TYR:OH	2.14	0.95
1:A:173:ARG:HG2	1:A:579:PRO:HG3	1.46	0.95
1:A:195:LEU:HD22	1:A:199:LEU:HG	1.46	0.95
1:A:207:SER:HB2	1:A:228:HIS:CE1	2.01	0.95
1:A:312:GLU:O	1:A:315:SER:OG	1.84	0.95
1:A:435:ALA:N	1:A:437:MET:HE3	1.81	0.95
1:B:111:THR:OG1	1:B:121:ASP:OD1	1.85	0.95
1:B:231:ASN:O	1:B:235:THR:OG1	1.83	0.95
1:B:643:ASP:O	1:B:646:THR:OG1	1.85	0.95
1:B:35:GLN:OE1	1:B:504:SER:OG	1.85	0.95
1:B:86:VAL:O	1:B:90:THR:OG1	1.83	0.95
1:B:141:SER:CB	1:B:147:HIS:HB2	1.97	0.95
1:B:252:SER:O	1:B:255:THR:OG1	1.85	0.95
1:B:408:PHE:HE1	1:B:636:TRP:CD1	1.83	0.95
1:A:4:LEU:CD2	1:A:17:THR:HG21	1.95	0.95
1:A:517:TYR:HE2	1:A:520:TRP:CH2	1.73	0.95
1:A:566:LEU:CD1	1:A:568:LEU:N	2.30	0.94
1:A:669:GLN:O	1:A:673:THR:OG1	1.85	0.94
1:A:717:GLY:O	1:A:720:ARG:CB	2.15	0.94
1:B:288:LEU:HD21	1:B:495:VAL:HG21	1.49	0.94
1:A:10:ASN:O	1:A:14:ARG:CB	2.14	0.94
1:A:127:PRO:C	1:A:166:PRO:HB2	1.89	0.94
1:B:302:GLY:HA3	1:B:303:ARG:HH12	1.31	0.94
1:B:606:VAL:HB	1:B:697:ARG:NH2	1.81	0.94
1:B:729:LEU:HA	1:B:732:LEU:CD1	1.96	0.94
1:A:128:PRO:HD3	1:A:166:PRO:O	1.66	0.94
1:B:94:GLN:HB2	1:B:237:PHE:CZ	2.02	0.94
1:B:377:LYS:HA	1:B:385:ARG:HD3	1.47	0.94
1:B:569:ALA:CA	1:B:572:THR:HB	1.96	0.94
1:B:38:LEU:HD11	1:B:502:VAL:HA	1.47	0.94
1:B:113:SER:HB3	1:B:115:ASN:ND2	1.81	0.94
1:A:42:ARG:NH1	1:A:336:ILE:HD11	1.79	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:176:ARG:NH1	1:A:446:GLU:HG2	1.83	0.94
1:A:195:LEU:O	1:A:199:LEU:CB	2.14	0.94
1:A:419:ALA:HA	1:A:421:TYR:CE1	2.01	0.94
1:A:521:ASN:O	1:A:539:SER:OG	1.85	0.94
1:B:9:LEU:HD23	1:B:16:LEU:HB3	1.47	0.94
1:B:119:LYS:HB2	1:B:219:ALA:HB3	1.49	0.94
1:B:308:PHE:CZ	1:B:318:ILE:CD1	2.50	0.94
1:B:321:PHE:CE1	1:B:325:MET:CG	2.51	0.94
1:A:34:LEU:HB3	1:A:504:SER:HB3	1.46	0.94
1:A:408:PHE:HZ	1:A:636:TRP:HZ2	1.08	0.94
1:A:669:GLN:HB2	1:B:123:VAL:HG11	1.47	0.94
1:A:732:LEU:HD11	1:A:738:LEU:HD22	1.47	0.94
1:B:6:VAL:N	1:B:435:ALA:HB3	1.82	0.94
1:B:42:ARG:HE	1:B:336:ILE:HA	1.33	0.94
1:B:125:LYS:H	1:B:165:LEU:CD2	1.80	0.94
1:B:176:ARG:CZ	1:B:446:GLU:HG2	1.98	0.94
1:B:232:ALA:O	1:B:239:ARG:NH2	2.00	0.94
1:B:400:THR:HG21	1:B:686:ILE:CG2	1.96	0.94
1:B:467:VAL:HG21	1:B:479:LEU:HD11	0.97	0.94
1:A:103:TRP:O	1:A:107:THR:OG1	1.84	0.94
1:A:404:ILE:HD12	1:A:681:ILE:CG2	1.96	0.94
1:A:408:PHE:CZ	1:A:636:TRP:NE1	2.35	0.94
1:B:126:VAL:N	1:B:127:PRO:HD2	1.82	0.94
1:B:199:LEU:O	1:B:203:SER:N	2.01	0.94
1:B:592:ALA:HA	1:B:726:TRP:CZ2	2.02	0.94
1:B:607:LYS:CB	1:B:609:PHE:CD1	2.41	0.94
1:A:48:MET:O	1:A:50:SER:OG	1.85	0.94
1:A:61:ILE:HG12	1:A:66:TYR:CE2	2.03	0.94
1:A:189:CYS:HB3	1:A:323:GLU:CD	1.92	0.94
1:A:257:LEU:HB3	1:A:261:TRP:CH2	2.02	0.94
1:A:345:GLN:CD	1:A:346:THR:N	2.23	0.94
1:A:444:VAL:O	1:A:447:ARG:N	2.00	0.94
1:A:638:SER:O	1:A:641:VAL:HB	1.67	0.94
1:A:678:ILE:HG21	1:A:725:ILE:CD1	1.98	0.94
1:A:683:THR:HG22	1:A:684:THR:H	1.29	0.94
1:B:22:ILE:HG22	1:B:506:HIS:ND1	1.82	0.94
1:B:38:LEU:HD11	1:B:502:VAL:CA	1.97	0.94
1:B:69:LEU:HA	1:B:72:GLN:CB	1.98	0.94
1:A:42:ARG:HG3	1:A:336:ILE:HD12	1.48	0.94
1:A:62:ASP:OD1	1:A:64:VAL:N	2.01	0.94
1:A:445:VAL:CG1	1:A:456:MET:HB3	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:590:GLU:CD	1:A:608:GLU:CD	2.31	0.94
1:A:617:ARG:HG2	1:A:617:ARG:HH11	1.32	0.94
1:A:732:LEU:O	1:A:738:LEU:CG	2.16	0.94
1:B:94:GLN:HA	1:B:237:PHE:HE2	1.32	0.94
1:B:259:ARG:HG3	1:B:269:LEU:CD2	1.96	0.94
1:B:669:GLN:O	1:B:673:THR:OG1	1.85	0.94
1:A:126:VAL:O	1:A:166:PRO:N	2.01	0.94
1:A:476:SER:HA	1:A:479:LEU:CD1	1.98	0.94
1:A:558:SER:N	1:A:559:GLU:OE1	2.01	0.94
1:B:153:PHE:HZ	1:B:202:LEU:HB3	1.31	0.94
1:B:183:PHE:HE1	1:B:250:VAL:HG12	1.33	0.94
1:B:329:SER:OG	1:B:331:PHE:N	2.00	0.94
1:A:36:LEU:H	1:A:263:PRO:CA	1.80	0.93
1:A:145:LEU:O	1:A:148:HIS:N	2.02	0.93
1:B:321:PHE:HD1	1:B:322:ILE:H	1.00	0.93
1:B:358:VAL:HG13	1:B:437:MET:HA	1.48	0.93
1:A:2:PHE:CD2	1:A:459:ILE:HG21	1.84	0.93
1:A:6:VAL:CG2	1:A:434:GLY:HA3	1.98	0.93
1:A:36:LEU:CB	1:A:263:PRO:CA	2.45	0.93
1:A:127:PRO:CB	1:A:130:ALA:HB3	1.98	0.93
1:A:268:GLU:CD	1:A:269:LEU:HG	1.92	0.93
1:A:444:VAL:HG23	1:A:445:VAL:N	1.81	0.93
1:A:541:ARG:CD	1:A:542:THR:HA	1.98	0.93
1:B:93:HIS:O	1:B:237:PHE:CG	2.21	0.93
1:A:207:SER:HB2	1:A:228:HIS:HE1	1.32	0.93
1:A:208:LYS:HA	1:A:208:LYS:HE3	1.50	0.93
1:A:445:VAL:HG13	1:A:456:MET:CB	1.98	0.93
1:A:624:LEU:HB2	1:A:626:PRO:HG3	1.51	0.93
1:A:715:HIS:HE1	1:B:378:LEU:HD22	1.23	0.93
1:A:754:ASN:HB3	1:A:755:ALA:C	1.93	0.93
1:B:128:PRO:HB3	1:B:131:ILE:CG2	1.99	0.93
1:B:209:MET:O	1:B:213:THR:OG1	1.87	0.93
1:B:342:TYR:HB3	1:B:559:GLU:HB2	1.51	0.93
1:A:127:PRO:HA	1:A:166:PRO:HB3	0.94	0.93
1:A:732:LEU:HD12	1:A:738:LEU:HD23	1.48	0.93
1:B:93:HIS:CD2	1:B:237:PHE:HD1	1.85	0.93
1:B:112:GLY:O	1:B:113:SER:CB	2.16	0.93
1:B:312:GLU:OE1	1:B:316:THR:OG1	1.85	0.93
1:B:705:ARG:HB3	1:B:707:LEU:CD1	1.98	0.93
1:A:87:ASN:O	1:A:90:THR:OG1	1.85	0.93
1:A:213:THR:CB	1:A:215:LYS:HB3	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:ASN:OD1	1:A:232:ALA:N	2.00	0.93
1:A:258:GLY:O	1:A:262:SER:OG	1.85	0.93
1:A:345:GLN:CB	1:A:556:GLN:HA	1.98	0.93
1:A:540:ILE:HG21	1:A:541:ARG:HH21	1.30	0.93
1:A:671:ALA:HA	1:A:674:LEU:HD11	1.51	0.93
1:B:173:ARG:HD2	1:B:174:VAL:H	1.15	0.93
1:B:310:ASP:N	1:B:314:SER:O	1.99	0.93
1:B:597:ILE:CD1	1:B:713:ASP:CG	2.41	0.93
1:A:30:SER:O	1:A:31:VAL:HG12	1.69	0.93
1:A:408:PHE:CD1	1:A:636:TRP:NE1	2.21	0.93
1:A:436:GLU:O	1:A:438:THR:N	2.02	0.93
1:A:653:THR:C	1:A:655:ARG:HB2	1.92	0.93
1:A:688:ALA:HA	1:A:691:VAL:HG23	1.50	0.93
1:B:102:ILE:CB	1:B:135:LEU:HD11	1.99	0.93
1:B:156:HIS:NE2	1:B:210:LEU:HD21	1.82	0.93
1:B:376:VAL:CG1	1:B:378:LEU:HD21	1.95	0.93
1:A:294:TYR:O	1:A:298:VAL:N	2.01	0.93
1:A:307:ILE:HD12	1:A:308:PHE:HD1	1.31	0.93
1:A:414:VAL:O	1:A:418:THR:OG1	1.84	0.93
1:A:648:ALA:HB1	1:A:652:ARG:NH2	1.82	0.93
1:B:225:ILE:O	1:B:229:LEU:N	2.01	0.93
1:B:422:GLU:HG3	1:B:426:GLN:CG	1.99	0.93
1:A:522:VAL:HG23	1:A:523:ARG:H	1.33	0.93
1:B:254:LEU:HD21	1:B:297:MET:CB	1.80	0.93
1:B:260:LEU:HD22	1:B:276:ARG:HH12	1.33	0.93
1:B:316:THR:HG22	1:B:320:TRP:HE1	1.33	0.93
1:B:607:LYS:CA	1:B:609:PHE:HB2	1.99	0.93
1:B:698:ILE:HA	1:B:701:GLN:HB2	1.48	0.93
1:A:4:LEU:HB3	1:A:13:ALA:HB2	1.47	0.93
1:A:40:PHE:CE2	1:A:291:PHE:HB2	2.02	0.93
1:A:107:THR:O	1:A:112:GLY:CA	2.16	0.93
1:A:196:ARG:HD2	1:A:328:VAL:CG1	1.98	0.93
1:A:610:GLU:HA	1:A:613:GLY:HA2	1.49	0.93
1:B:245:ASP:OD2	1:B:248:ALA:HB2	1.67	0.93
1:B:276:ARG:O	1:B:285:ARG:NH2	2.02	0.93
1:B:393:ILE:HG22	1:B:397:MET:HG2	1.51	0.93
1:B:451:LEU:HB3	1:B:453:ARG:HD3	1.47	0.93
1:B:526:LEU:HD23	1:B:527:ARG:H	1.32	0.93
1:A:265:THR:HG23	1:A:267:LYS:CG	1.99	0.93
1:A:345:GLN:HA	1:A:360:VAL:HG12	1.51	0.93
1:B:72:GLN:HG2	1:B:174:VAL:HG12	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:ASN:HD22	1:B:244:PHE:HB2	1.32	0.93
1:B:372:ALA:HB3	1:B:389:VAL:HG23	1.39	0.93
1:B:526:LEU:HD22	1:B:527:ARG:H	0.78	0.93
1:A:37:PRO:CB	1:A:501:VAL:HG23	1.99	0.92
1:A:51:GLU:C	1:A:174:VAL:HG11	1.93	0.92
1:B:103:TRP:O	1:B:107:THR:OG1	1.87	0.92
1:B:105:LYS:CA	1:B:108:ALA:HB3	1.98	0.92
1:B:158:LEU:HA	1:B:160:PRO:N	1.84	0.92
1:B:226:SER:HA	1:B:229:LEU:HB3	1.50	0.92
1:A:86:VAL:HG11	1:A:191:ARG:CG	1.99	0.92
1:A:108:ALA:CA	1:A:112:GLY:HA3	1.99	0.92
1:A:128:PRO:CG	1:A:166:PRO:O	2.17	0.92
1:A:257:LEU:HD22	1:A:288:LEU:CD1	1.98	0.92
1:A:595:VAL:HB	1:A:602:TYR:HB3	1.50	0.92
1:B:16:LEU:HG	1:B:546:LEU:CD1	1.97	0.92
1:B:502:VAL:CG2	1:B:519:VAL:HG22	1.98	0.92
1:B:702:MET:HG2	1:B:714:LEU:CD1	1.99	0.92
1:A:187:VAL:CG1	1:A:246:ALA:O	2.10	0.92
1:A:346:THR:HG21	1:A:438:THR:OG1	1.67	0.92
1:A:459:ILE:O	1:A:463:ARG:N	2.03	0.92
1:B:73:TYR:O	1:B:78:GLY:N	2.02	0.92
1:B:221:ALA:HB1	1:B:222:PRO:CD	1.98	0.92
1:B:472:GLU:OE1	1:B:473:ALA:N	2.03	0.92
1:B:693:LEU:HG	1:B:697:ARG:NH1	1.83	0.92
1:A:159:SER:HB2	1:A:164:ILE:HB	0.96	0.92
1:A:213:THR:OG1	1:A:215:LYS:NZ	2.03	0.92
1:A:417:ARG:NH1	1:A:642:GLU:OE1	2.01	0.92
1:A:741:SER:N	1:A:742:GLU:OE1	2.02	0.92
1:B:93:HIS:O	1:B:237:PHE:CD1	2.22	0.92
1:B:125:LYS:N	1:B:165:LEU:HD21	1.83	0.92
1:A:176:ARG:CZ	1:A:446:GLU:HB3	1.98	0.92
1:B:444:VAL:HG12	1:B:486:TYR:CD1	2.05	0.92
1:B:551:TYR:O	1:B:552:ASN:OD1	1.88	0.92
1:A:108:ALA:HA	1:A:112:GLY:C	1.95	0.92
1:A:127:PRO:HB2	1:A:130:ALA:HB3	1.52	0.92
1:A:134:GLN:O	1:A:137:THR:OG1	1.85	0.92
1:A:337:ASN:HD21	1:A:496:ALA:HB1	1.35	0.92
1:A:544:GLU:HG2	1:A:547:GLU:CD	1.95	0.92
1:A:566:LEU:HD12	1:A:567:ASP:N	1.85	0.92
1:B:66:TYR:O	1:B:69:LEU:N	2.03	0.92
1:B:183:PHE:CE2	1:B:184:TYR:CE1	2.57	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:415:LYS:HE3	1:B:416:ASN:CA	2.00	0.92
1:A:10:ASN:C	1:A:14:ARG:HB2	1.95	0.92
1:A:386:PHE:CE1	1:A:576:HIS:HB3	2.05	0.92
1:B:530:VAL:HB	1:B:551:TYR:CZ	2.03	0.92
1:B:595:VAL:HG22	1:B:714:LEU:HD22	1.52	0.92
1:A:2:PHE:O	1:A:3:ASN:ND2	2.03	0.92
1:A:310:ASP:CB	1:A:313:LEU:HD13	2.00	0.92
1:A:541:ARG:CZ	1:A:542:THR:HA	2.00	0.92
1:A:636:TRP:CD2	1:A:640:PHE:CZ	2.58	0.92
1:A:715:HIS:CD2	1:B:388:ASP:OD2	2.23	0.92
1:B:38:LEU:O	1:B:39:GLN:HG2	1.68	0.92
1:B:125:LYS:N	1:B:165:LEU:HD11	1.85	0.92
1:A:410:VAL:HG13	1:A:411:SER:N	1.82	0.92
1:A:663:ILE:O	1:A:667:ARG:N	2.03	0.92
1:B:13:ALA:CB	1:B:16:LEU:HD22	2.00	0.92
1:B:19:ALA:HB1	1:B:24:GLU:HB3	0.95	0.92
1:B:45:SER:OG	1:B:179:THR:O	1.87	0.92
1:B:183:PHE:HZ	1:B:301:ARG:HH12	1.17	0.92
1:B:362:GLU:HA	1:B:441:PHE:HA	1.49	0.92
1:A:173:ARG:NH1	1:A:173:ARG:HB2	1.85	0.92
1:A:303:ARG:HH12	1:A:513:GLN:HG3	1.34	0.92
1:A:462:LEU:HD21	1:A:483:MET:HE3	1.51	0.92
1:A:189:CYS:C	1:A:323:GLU:HG3	1.95	0.91
1:B:16:LEU:CG	1:B:546:LEU:HD11	2.00	0.91
1:B:44:PHE:CZ	1:B:333:LEU:HD22	2.05	0.91
1:B:102:ILE:HG22	1:B:138:LEU:HD12	1.51	0.91
1:B:209:MET:HG3	1:B:225:ILE:HG21	1.52	0.91
1:B:209:MET:HG3	1:B:225:ILE:CG2	2.00	0.91
1:B:668:MET:SD	1:B:671:ALA:HB3	2.09	0.91
1:A:105:LYS:NZ	1:A:134:GLN:O	2.00	0.91
1:A:503:VAL:CG1	1:A:518:LEU:HA	2.00	0.91
1:B:156:HIS:CD2	1:B:210:LEU:CD2	2.54	0.91
1:B:190:VAL:CG1	1:B:323:GLU:HB3	2.00	0.91
1:B:414:VAL:O	1:B:418:THR:OG1	1.88	0.91
1:A:101:GLU:O	1:A:104:ARG:HG2	1.69	0.91
1:A:345:GLN:HB3	1:A:556:GLN:HE21	1.34	0.91
1:A:715:HIS:NE2	1:B:376:VAL:HG12	1.84	0.91
1:B:61:ILE:HD11	1:B:156:HIS:C	1.95	0.91
1:B:70:PHE:CD1	1:B:85:LEU:HD11	2.05	0.91
1:B:132:LEU:CD2	1:B:151:THR:HG23	1.99	0.91
1:B:481:ARG:HA	1:B:484:PHE:HD2	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:637:TYR:HA	1:B:640:PHE:HD2	1.33	0.91
1:A:213:THR:CB	1:A:215:LYS:HD3	2.00	0.91
1:B:3:ASN:CB	1:B:436:GLU:HG2	1.99	0.91
1:B:401:LEU:CD2	1:B:404:ILE:CD1	2.47	0.91
1:B:666:ARG:HA	1:B:669:GLN:NE2	1.84	0.91
1:A:36:LEU:HG	1:A:263:PRO:HA	1.45	0.91
1:A:40:PHE:CD2	1:A:291:PHE:CB	2.51	0.91
1:A:128:PRO:CD	1:A:166:PRO:O	2.19	0.91
1:A:352:MET:SD	1:A:427:ARG:HA	2.09	0.91
1:B:360:VAL:HG23	1:B:439:LEU:HA	1.49	0.91
1:B:597:ILE:HD12	1:B:713:ASP:OD2	1.66	0.91
1:B:666:ARG:HA	1:B:669:GLN:CD	1.95	0.91
1:A:20:PHE:O	1:A:22:ILE:N	2.04	0.91
1:A:637:TYR:OH	1:A:745:ALA:HB3	1.70	0.91
1:B:47:SER:OG	1:B:332:LYS:NZ	2.04	0.91
1:B:202:LEU:HD11	1:B:236:ALA:CB	1.99	0.91
1:B:303:ARG:HG3	1:B:303:ARG:HH11	1.34	0.91
1:B:630:HIS:O	1:B:634:GLN:NE2	2.03	0.91
1:A:275:LEU:CB	1:A:276:ARG:HD3	1.97	0.91
1:A:349:ILE:HG13	1:A:350:ASP:H	1.35	0.91
1:A:751:GLY:O	1:A:754:ASN:O	1.88	0.91
1:B:45:SER:O	1:B:334:ARG:NH2	2.04	0.91
1:B:132:LEU:HD11	1:B:150:THR:HB	1.53	0.91
1:B:260:LEU:HD12	1:B:261:TRP:NE1	1.85	0.91
1:B:350:ASP:CA	1:B:427:ARG:O	2.19	0.91
1:B:354:GLN:CG	1:B:528:ILE:HG21	2.00	0.91
1:A:39:GLN:O	1:A:39:GLN:NE2	2.04	0.91
1:A:100:PRO:O	1:A:103:TRP:HB2	1.70	0.91
1:A:195:LEU:HD22	1:A:199:LEU:CG	2.01	0.91
1:A:503:VAL:HG23	1:A:519:VAL:HB	1.51	0.91
1:A:717:GLY:O	1:A:720:ARG:CA	2.18	0.91
1:B:205:VAL:HG21	1:B:232:ALA:HB1	1.52	0.91
1:B:677:LYS:N	1:B:677:LYS:HE3	1.85	0.91
1:A:40:PHE:CD2	1:A:288:LEU:O	2.24	0.91
1:A:187:VAL:CG1	1:A:247:ASN:HA	1.98	0.91
1:A:205:VAL:HG21	1:A:239:ARG:NH2	1.86	0.91
1:A:306:VAL:HG11	1:A:309:SER:HB2	1.52	0.91
1:A:361:TYR:HD2	1:A:362:GLU:H	1.05	0.91
1:A:732:LEU:O	1:A:738:LEU:CD2	2.18	0.91
1:B:44:PHE:CD1	1:B:333:LEU:HA	2.06	0.91
1:B:607:LYS:HB2	1:B:609:PHE:CD1	2.06	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:642:GLU:CG	1:B:645:ARG:HH22	1.82	0.91
1:B:729:LEU:C	1:B:732:LEU:HB3	1.96	0.91
1:A:16:LEU:HD21	1:A:462:LEU:HB3	1.50	0.91
1:A:184:TYR:O	1:A:187:VAL:N	2.04	0.91
1:A:190:VAL:HG11	1:A:249:VAL:HG21	1.50	0.91
1:A:517:TYR:CD2	1:A:520:TRP:CE2	2.57	0.91
1:B:244:PHE:HZ	1:B:318:ILE:HA	1.30	0.91
1:B:590:GLU:HB2	1:B:607:LYS:CD	2.00	0.91
1:A:31:VAL:HG13	1:A:32:GLY:N	1.78	0.90
1:A:462:LEU:HD11	1:A:483:MET:CG	2.01	0.90
1:A:535:ILE:HD11	1:A:540:ILE:CA	1.99	0.90
1:B:535:ILE:O	1:B:536:GLU:HB2	1.70	0.90
1:B:535:ILE:HG21	1:B:539:SER:N	1.86	0.90
1:A:1:GLY:O	1:A:3:ASN:ND2	2.04	0.90
1:A:40:PHE:HD2	1:A:291:PHE:HB2	1.18	0.90
1:A:177:THR:OG1	1:A:447:ARG:NH2	2.02	0.90
1:A:283:GLN:O	1:A:286:SER:OG	1.87	0.90
1:A:334:ARG:HG3	1:A:335:PRO:N	1.84	0.90
1:A:448:ASP:HB2	1:A:455:PRO:CD	2.00	0.90
1:A:758:MET:HB3	1:A:759:VAL:HA	1.52	0.90
1:B:97:ALA:CA	1:B:234:THR:HG21	2.00	0.90
1:B:128:PRO:CB	1:B:131:ILE:HG22	2.00	0.90
1:B:340:THR:O	1:B:342:TYR:CE2	2.24	0.90
1:A:287:ASN:HD21	1:A:290:LEU:HD11	1.37	0.90
1:A:630:HIS:CA	1:A:737:LEU:CG	2.47	0.90
1:A:750:LEU:HD12	1:A:751:GLY:N	1.86	0.90
1:B:6:VAL:HG21	1:B:530:VAL:HA	1.53	0.90
1:B:373:PHE:CE2	1:B:583:ALA:CB	2.46	0.90
1:B:668:MET:HA	1:B:671:ALA:CB	2.00	0.90
1:A:128:PRO:N	1:A:129:THR:HB	1.87	0.90
1:A:128:PRO:CA	1:A:166:PRO:CB	2.48	0.90
1:A:278:THR:HG21	1:A:281:ILE:CG2	2.01	0.90
1:A:527:ARG:NH1	1:A:528:ILE:HD12	1.85	0.90
1:B:260:LEU:HG	1:B:285:ARG:HB3	1.51	0.90
1:B:267:LYS:HZ3	1:B:268:GLU:H	1.18	0.90
1:B:288:LEU:HD13	1:B:495:VAL:CG1	2.02	0.90
1:B:462:LEU:HD13	1:B:463:ARG:N	1.85	0.90
1:B:522:VAL:HB	1:B:540:ILE:CG1	2.01	0.90
1:A:2:PHE:C	1:A:3:ASN:ND2	2.28	0.90
1:A:61:ILE:CB	1:A:156:HIS:HD2	1.79	0.90
1:A:128:PRO:CA	1:A:166:PRO:HB2	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:PHE:HE2	1:A:387:LEU:HD22	1.37	0.90
1:A:653:THR:CA	1:A:655:ARG:CG	2.42	0.90
1:B:3:ASN:ND2	1:B:436:GLU:OE2	2.04	0.90
1:B:38:LEU:HD11	1:B:502:VAL:N	1.86	0.90
1:B:540:ILE:HD11	1:B:551:TYR:O	1.72	0.90
1:B:633:ILE:HG23	1:B:738:LEU:HD11	1.53	0.90
1:A:18:GLN:CA	1:A:21:ALA:HB2	2.00	0.90
1:A:52:LEU:HD13	1:A:53:LEU:H	1.37	0.90
1:A:581:HIS:O	1:A:583:ALA:N	2.04	0.90
1:B:371:THR:OG1	1:B:623:ILE:HG12	1.71	0.90
1:B:695:GLN:O	1:B:699:VAL:N	2.04	0.90
1:A:73:TYR:CE2	1:A:143:HIS:CB	2.54	0.90
1:A:81:SER:O	1:A:85:LEU:CD2	2.19	0.90
1:A:262:SER:HB3	1:A:516:LEU:HD21	1.52	0.90
1:A:660:LYS:HG3	1:A:661:LEU:HD13	1.54	0.90
1:B:82:VAL:O	1:B:85:LEU:N	2.05	0.90
1:B:338:GLU:OE1	1:B:339:THR:N	2.04	0.90
1:A:116:ARG:C	1:A:220:LEU:CD1	2.26	0.90
1:A:669:GLN:HB2	1:B:123:VAL:CG1	2.02	0.90
1:A:715:HIS:NE2	1:B:376:VAL:CG1	2.34	0.90
1:A:729:LEU:HA	1:A:732:LEU:HD23	1.52	0.90
1:B:18:GLN:OE1	1:B:518:LEU:HD12	1.71	0.90
1:B:408:PHE:O	1:B:632:ILE:HD11	1.70	0.90
1:A:310:ASP:HB3	1:A:313:LEU:HD13	1.53	0.90
1:A:548:ALA:HA	1:A:551:TYR:HB2	1.50	0.90
1:B:23:GLY:HA2	1:B:299:LYS:NZ	1.86	0.90
1:B:51:GLU:OE1	1:B:565:VAL:N	2.05	0.90
1:B:176:ARG:NH2	1:B:447:ARG:HA	1.86	0.90
1:B:180:TYR:CZ	1:B:492:HIS:CE1	2.60	0.90
1:B:427:ARG:N	1:B:428:GLY:HA3	1.84	0.90
1:B:535:ILE:HG12	1:B:539:SER:C	1.97	0.90
1:B:610:GLU:O	1:B:612:LEU:N	2.05	0.90
1:B:642:GLU:HG2	1:B:645:ARG:CZ	2.02	0.90
1:A:187:VAL:HG13	1:A:247:ASN:N	1.81	0.90
1:A:272:SER:C	1:A:276:ARG:HE	1.80	0.90
1:A:674:LEU:HA	1:A:677:LYS:HZ3	1.37	0.90
1:B:183:PHE:HE2	1:B:184:TYR:CE1	1.90	0.90
1:B:360:VAL:CG2	1:B:439:LEU:HA	2.01	0.90
1:B:361:TYR:CE1	1:B:441:PHE:CE2	2.52	0.90
1:B:525:GLU:OE1	1:B:525:GLU:N	2.05	0.90
1:A:173:ARG:HB2	1:A:173:ARG:HH11	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:294:TYR:CE1	1:B:298:VAL:HG21	2.07	0.89
1:B:313:LEU:HA	1:B:316:THR:HB	1.54	0.89
1:A:540:ILE:HG22	1:A:541:ARG:HH21	1.33	0.89
1:A:630:HIS:CB	1:A:737:LEU:CD1	2.49	0.89
1:B:343:ILE:HD11	1:B:493:TYR:CE1	2.07	0.89
1:B:686:ILE:O	1:B:687:GLY:C	2.14	0.89
1:A:344:GLY:HA3	1:A:361:TYR:H	1.35	0.89
1:B:30:SER:OG	1:B:543:PRO:HG3	1.73	0.89
1:B:125:LYS:HA	1:B:128:PRO:HD3	1.52	0.89
1:B:205:VAL:HG21	1:B:232:ALA:CB	2.01	0.89
1:B:312:GLU:CD	1:B:313:LEU:HD23	1.97	0.89
1:B:365:GLN:NE2	1:B:365:GLN:HA	1.86	0.89
1:A:292:ILE:HG23	1:A:295:GLN:CG	2.00	0.89
1:A:533:ASN:HD21	1:A:541:ARG:CZ	1.85	0.89
1:A:716:VAL:CG2	1:B:378:LEU:HD13	2.03	0.89
1:B:103:TRP:O	1:B:107:THR:N	2.04	0.89
1:B:580:TRP:CH2	1:B:581:HIS:NE2	2.39	0.89
1:A:18:GLN:HG2	1:A:491:MET:HE1	1.54	0.89
1:A:108:ALA:HA	1:A:112:GLY:CA	2.01	0.89
1:A:187:VAL:HG11	1:A:247:ASN:HA	1.54	0.89
1:A:276:ARG:HB3	1:A:281:ILE:HG12	1.53	0.89
1:A:338:GLU:OE1	1:A:338:GLU:N	2.05	0.89
1:B:371:THR:O	1:B:623:ILE:CB	2.20	0.89
1:B:497:HIS:HB2	1:B:549:ILE:HD11	0.91	0.89
1:B:575:ILE:CA	1:B:576:HIS:HB2	2.02	0.89
1:B:729:LEU:CA	1:B:732:LEU:HB3	2.02	0.89
1:A:356:SER:H	1:A:437:MET:HE1	1.37	0.89
1:A:527:ARG:HA	1:A:527:ARG:NH1	1.88	0.89
1:A:675:LEU:HD13	1:A:721:HIS:CD2	2.07	0.89
1:A:739:SER:N	1:A:742:GLU:OE2	1.85	0.89
1:B:71:PHE:CE2	1:B:329:SER:HA	2.08	0.89
1:A:281:ILE:HD12	1:A:282:ASP:N	1.87	0.89
1:A:282:ASP:CG	1:A:283:GLN:H	1.79	0.89
1:A:507:GLN:N	1:A:507:GLN:OE1	2.05	0.89
1:A:654:SER:OG	1:A:659:GLU:OE1	1.89	0.89
1:B:41:THR:OG1	1:B:287:ASN:ND2	2.05	0.89
1:B:184:TYR:HA	1:B:187:VAL:CG2	2.03	0.89
1:B:501:VAL:HA	1:B:520:TRP:CD1	2.08	0.89
1:B:729:LEU:HD22	1:B:732:LEU:HD13	1.54	0.89
1:A:358:VAL:O	1:A:438:THR:OG1	1.89	0.89
1:A:503:VAL:HG11	1:A:518:LEU:CA	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:PRO:O	1:B:406:ASN:CB	2.21	0.89
1:A:257:LEU:HD13	1:A:261:TRP:CH2	2.07	0.89
1:B:9:LEU:CD2	1:B:16:LEU:HB3	2.02	0.89
1:B:695:GLN:HA	1:B:698:ILE:HG13	1.53	0.89
1:A:39:GLN:CG	1:A:499:PRO:HB3	2.03	0.88
1:A:129:THR:O	1:A:132:LEU:CB	2.20	0.88
1:A:268:GLU:OE1	1:A:269:LEU:N	2.04	0.88
1:A:346:THR:CB	1:A:358:VAL:HA	2.02	0.88
1:B:56:VAL:HB	1:B:148:HIS:NE2	1.88	0.88
1:B:366:PHE:CA	1:B:563:ALA:HB2	2.03	0.88
1:B:376:VAL:O	1:B:378:LEU:CG	2.21	0.88
1:B:583:ALA:HA	1:B:624:LEU:HB2	1.53	0.88
1:B:40:PHE:CZ	1:B:495:VAL:HG12	2.08	0.88
1:B:105:LYS:HA	1:B:108:ALA:CB	2.03	0.88
1:B:308:PHE:CE2	1:B:318:ILE:CD1	2.55	0.88
1:A:60:ASN:CA	1:A:156:HIS:CG	2.55	0.88
1:A:101:GLU:CB	1:A:104:ARG:CD	2.48	0.88
1:A:159:SER:CB	1:A:164:ILE:CA	2.46	0.88
1:A:234:THR:CA	1:A:237:PHE:CB	2.50	0.88
1:B:37:PRO:HG2	1:B:261:TRP:CH2	2.07	0.88
1:B:260:LEU:HD12	1:B:261:TRP:HD1	1.05	0.88
1:B:569:ALA:HA	1:B:572:THR:CB	2.03	0.88
1:A:89:PHE:CD2	1:A:146:PHE:HD2	1.92	0.88
1:A:126:VAL:O	1:A:166:PRO:CA	2.20	0.88
1:B:38:LEU:HD21	1:B:501:VAL:N	1.87	0.88
1:B:127:PRO:HA	1:B:130:ALA:HB3	1.56	0.88
1:B:215:LYS:N	1:B:220:LEU:HD13	1.87	0.88
1:B:235:THR:HB	1:B:239:ARG:NH2	1.88	0.88
1:B:356:SER:O	1:B:436:GLU:N	2.04	0.88
1:B:729:LEU:HA	1:B:732:LEU:HB3	1.55	0.88
1:A:52:LEU:HA	1:A:53:LEU:HD23	1.56	0.88
1:A:145:LEU:O	1:A:149:ILE:N	2.04	0.88
1:A:182:ASN:HA	1:A:484:PHE:HE2	1.38	0.88
1:A:281:ILE:HD12	1:A:282:ASP:CA	2.03	0.88
1:A:688:ALA:HA	1:A:691:VAL:CG2	2.04	0.88
1:B:190:VAL:HG13	1:B:323:GLU:HG3	1.53	0.88
1:B:205:VAL:HG11	1:B:232:ALA:CB	2.03	0.88
1:B:358:VAL:HG21	1:B:438:THR:CB	2.03	0.88
1:A:2:PHE:CE1	1:A:459:ILE:CG2	2.57	0.88
1:A:5:LYS:HB3	1:A:433:ASN:ND2	1.89	0.88
1:A:498:ASN:O	1:A:498:ASN:ND2	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:408:PHE:CZ	1:B:633:ILE:HD11	2.08	0.88
1:B:501:VAL:CG1	1:B:518:LEU:CB	2.48	0.88
1:B:723:ILE:HD12	1:B:726:TRP:HD1	1.36	0.88
1:A:38:LEU:HD23	1:A:39:GLN:N	1.88	0.88
1:A:117:ALA:O	1:A:118:ILE:HG22	1.73	0.88
1:A:422:GLU:CD	1:B:116:ARG:HG2	1.99	0.88
1:A:428:GLY:N	1:A:429:THR:HA	1.87	0.88
1:A:540:ILE:CG2	1:A:541:ARG:NH2	2.37	0.88
1:A:556:GLN:CD	1:A:557:PRO:HD2	1.98	0.88
1:B:245:ASP:CG	1:B:248:ALA:HB2	1.98	0.88
1:B:456:MET:CA	1:B:459:ILE:HD12	2.02	0.88
1:B:501:VAL:HA	1:B:520:TRP:HD1	1.37	0.88
1:B:705:ARG:CB	1:B:708:ILE:HG13	2.04	0.88
1:B:729:LEU:CA	1:B:732:LEU:HD13	2.03	0.88
1:A:25:LEU:HG	1:A:26:LYS:NZ	1.88	0.88
1:A:248:ALA:O	1:A:251:SER:OG	1.91	0.88
1:B:527:ARG:HG3	1:B:534:ALA:O	1.72	0.88
1:B:587:PHE:CA	1:B:622:ARG:HD3	2.03	0.88
1:A:2:PHE:CE1	1:A:459:ILE:HG21	2.07	0.88
1:A:477:ASN:O	1:A:480:LYS:NZ	2.07	0.88
1:A:630:HIS:CG	1:A:737:LEU:HD11	2.09	0.88
1:B:220:LEU:HD23	1:B:224:LEU:HD13	1.56	0.88
1:B:502:VAL:O	1:B:518:LEU:HA	1.73	0.88
1:B:693:LEU:HG	1:B:697:ARG:HH12	1.38	0.88
1:A:272:SER:N	1:A:276:ARG:CZ	2.37	0.88
1:A:713:ASP:O	1:A:714:LEU:CB	2.21	0.88
1:B:13:ALA:HB3	1:B:16:LEU:HD22	1.54	0.88
1:B:126:VAL:HG13	1:B:127:PRO:HD3	1.56	0.88
1:B:146:PHE:O	1:B:150:THR:OG1	1.90	0.88
1:B:208:LYS:HA	1:B:208:LYS:CE	2.00	0.88
1:B:308:PHE:CZ	1:B:318:ILE:CG1	2.53	0.88
1:B:371:THR:CA	1:B:623:ILE:HG12	2.04	0.88
1:B:371:THR:H	1:B:623:ILE:CG1	1.86	0.88
1:B:372:ALA:CB	1:B:389:VAL:CG2	2.42	0.88
1:B:693:LEU:O	1:B:697:ARG:NH1	2.07	0.88
1:A:34:LEU:HD23	1:A:504:SER:HB2	1.56	0.87
1:A:580:TRP:CH2	1:A:581:HIS:CE1	2.62	0.87
1:B:236:ALA:HA	1:B:239:ARG:CD	2.05	0.87
1:B:302:GLY:HA3	1:B:303:ARG:NH1	1.86	0.87
1:B:403:PRO:HA	1:B:406:ASN:ND2	1.88	0.87
1:B:471:LEU:HD12	1:B:479:LEU:HD22	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:PHE:HZ	1:A:486:TYR:CZ	1.91	0.87
1:A:201:ALA:HA	1:A:204:SER:HB3	1.55	0.87
1:B:22:ILE:HG21	1:B:517:TYR:CE1	2.09	0.87
1:B:373:PHE:CD2	1:B:583:ALA:CA	2.39	0.87
1:A:38:LEU:HD23	1:A:39:GLN:C	1.98	0.87
1:A:271:PRO:HB3	1:A:276:ARG:NH1	1.87	0.87
1:A:595:VAL:HG11	1:A:698:ILE:CD1	2.05	0.87
1:B:119:LYS:HZ3	1:B:217:LYS:HB3	1.39	0.87
1:B:144:GLU:O	1:B:147:HIS:N	2.07	0.87
1:A:6:VAL:CA	1:A:9:LEU:HD13	2.04	0.87
1:A:441:PHE:CB	1:A:443:SER:OG	2.22	0.87
1:A:459:ILE:O	1:A:462:LEU:N	2.06	0.87
1:B:41:THR:OG1	1:B:43:THR:OG1	1.63	0.87
1:B:42:ARG:CZ	1:B:42:ARG:HB2	2.02	0.87
1:B:127:PRO:O	1:B:131:ILE:N	2.08	0.87
1:B:349:ILE:HD13	1:B:353:GLY:CA	2.03	0.87
1:B:401:LEU:HD13	1:B:737:LEU:HD11	1.54	0.87
1:B:593:TYR:OH	1:B:722:ARG:HG3	1.75	0.87
1:A:46:ALA:CB	1:A:334:ARG:HH22	1.88	0.87
1:A:232:ALA:CA	1:A:235:THR:HB	2.03	0.87
1:A:497:HIS:CD2	1:A:549:ILE:HD13	2.09	0.87
1:B:79:ALA:CB	1:B:80:LEU:HD23	2.05	0.87
1:B:102:ILE:HG13	1:B:103:TRP:CE3	2.10	0.87
1:B:590:GLU:HB2	1:B:607:LYS:HD2	1.57	0.87
1:B:607:LYS:CB	1:B:608:GLU:C	2.46	0.87
1:A:35:GLN:HB2	1:A:263:PRO:HB2	1.55	0.87
1:A:223:ALA:HB3	1:A:227:GLN:HG3	1.54	0.87
1:A:532:TYR:CE2	1:A:533:ASN:HB3	2.09	0.87
1:B:386:PHE:CE1	1:B:576:HIS:N	2.17	0.87
1:B:597:ILE:CG1	1:B:714:LEU:HA	2.05	0.87
1:B:623:ILE:HG23	1:B:625:LYS:CG	2.04	0.87
1:B:623:ILE:O	1:B:625:LYS:N	2.08	0.87
1:B:681:ILE:CB	1:B:731:VAL:HG11	2.05	0.87
1:A:540:ILE:HG13	1:A:551:TYR:CZ	2.09	0.87
1:B:302:GLY:C	1:B:303:ARG:NH1	2.33	0.87
1:B:449:TYR:CE2	1:B:630:HIS:HB3	2.09	0.87
1:B:501:VAL:HG22	1:B:520:TRP:CD1	2.09	0.87
1:A:126:VAL:O	1:A:166:PRO:HB3	1.73	0.87
1:A:396:ARG:HE	1:A:612:LEU:CD1	1.88	0.87
1:B:316:THR:HG22	1:B:320:TRP:NE1	1.87	0.87
1:B:363:ASP:HB3	1:B:441:PHE:HB3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:377:LYS:CG	1:B:385:ARG:NH1	2.36	0.87
1:B:660:LYS:O	1:B:663:ILE:HG13	1.73	0.87
1:A:4:LEU:O	1:A:436:GLU:N	2.08	0.87
1:A:12:SER:CB	1:A:463:ARG:HH21	1.88	0.87
1:A:117:ALA:N	1:A:220:LEU:CD1	1.99	0.87
1:A:147:HIS:O	1:A:151:THR:CG2	2.21	0.87
1:A:523:ARG:NH2	1:A:525:GLU:HA	1.90	0.87
1:A:535:ILE:CD1	1:A:540:ILE:HA	2.02	0.87
1:A:548:ALA:O	1:A:552:ASN:CB	2.21	0.87
1:A:684:THR:HG23	1:A:685:GLY:O	1.74	0.87
1:A:720:ARG:O	1:A:723:ILE:HG22	1.75	0.87
1:A:742:GLU:OE1	1:A:742:GLU:N	2.08	0.87
1:B:88:GLN:HE22	1:B:143:HIS:CD2	1.93	0.87
1:B:112:GLY:O	1:B:113:SER:HB2	1.73	0.87
1:B:245:ASP:OD2	1:B:248:ALA:N	2.08	0.87
1:B:384:GLN:HA	1:B:577:ILE:CG2	2.04	0.87
1:B:635:MET:O	1:B:638:SER:OG	1.92	0.87
1:B:655:ARG:HA	1:B:655:ARG:NE	1.88	0.87
1:A:36:LEU:CG	1:A:263:PRO:CA	2.47	0.86
1:A:42:ARG:CA	1:A:289:ALA:HB1	1.89	0.86
1:A:101:GLU:HB2	1:A:104:ARG:CD	2.03	0.86
1:A:235:THR:O	1:A:239:ARG:HG3	1.75	0.86
1:A:294:TYR:HE1	1:A:515:SER:HA	1.39	0.86
1:A:521:ASN:OD1	1:A:541:ARG:HA	1.75	0.86
1:A:747:THR:HA	1:A:750:LEU:HD21	1.56	0.86
1:B:47:SER:HB3	1:B:332:LYS:HE2	1.57	0.86
1:B:195:LEU:O	1:B:198:MET:HB3	1.73	0.86
1:A:6:VAL:HG11	1:A:531:GLY:H	1.36	0.86
1:A:180:TYR:HB3	1:A:331:PHE:HA	1.57	0.86
1:A:195:LEU:HD22	1:A:199:LEU:CD1	2.05	0.86
1:A:268:GLU:OE2	1:A:269:LEU:HD12	1.73	0.86
1:A:421:TYR:CD1	1:A:422:GLU:N	2.42	0.86
1:A:520:TRP:CG	1:A:545:PRO:HG3	2.08	0.86
1:A:636:TRP:CH2	1:A:640:PHE:HE2	1.58	0.86
1:A:754:ASN:HB3	1:A:756:LEU:N	1.90	0.86
1:B:190:VAL:HG13	1:B:323:GLU:CB	2.04	0.86
1:B:501:VAL:HG13	1:B:520:TRP:CD1	2.10	0.86
1:B:623:ILE:O	1:B:624:LEU:C	2.12	0.86
1:A:298:VAL:CG2	1:A:515:SER:HB3	2.06	0.86
1:A:352:MET:N	1:A:353:GLY:CA	2.38	0.86
1:A:544:GLU:HG3	1:A:547:GLU:H	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ILE:HD13	1:A:552:ASN:ND2	1.90	0.86
1:A:553:LYS:HZ1	1:A:553:LYS:HA	1.40	0.86
1:B:44:PHE:HE1	1:B:332:LYS:C	1.83	0.86
1:B:216:ALA:HB1	1:B:217:LYS:C	2.00	0.86
1:B:323:GLU:OE1	1:B:323:GLU:N	2.08	0.86
1:B:571:HIS:HA	1:B:574:SER:CB	2.05	0.86
1:B:594:SER:HB3	1:B:603:THR:N	1.88	0.86
1:B:673:THR:HG22	1:B:677:LYS:NZ	1.90	0.86
1:A:36:LEU:HB2	1:A:263:PRO:CA	2.03	0.86
1:A:502:VAL:HG22	1:A:503:VAL:O	1.73	0.86
1:B:415:LYS:HZ1	1:B:419:ALA:HB2	1.35	0.86
1:A:8:ASP:O	1:A:12:SER:N	2.06	0.86
1:A:186:LEU:H	1:A:186:LEU:HD12	1.40	0.86
1:A:201:ALA:HA	1:A:204:SER:CB	2.05	0.86
1:A:272:SER:H	1:A:276:ARG:CZ	1.88	0.86
1:A:298:VAL:HG21	1:A:515:SER:CB	2.05	0.86
1:B:200:THR:HG23	1:B:201:ALA:H	1.39	0.86
1:A:30:SER:HB3	1:A:506:HIS:NE2	1.90	0.86
1:A:187:VAL:O	1:A:190:VAL:HG23	1.76	0.86
1:A:232:ALA:C	1:A:236:ALA:H	1.83	0.86
1:A:233:ALA:O	1:A:236:ALA:CB	2.21	0.86
1:A:272:SER:C	1:A:276:ARG:NE	2.34	0.86
1:B:130:ALA:O	1:B:133:GLU:HB3	1.76	0.86
1:B:308:PHE:CE2	1:B:318:ILE:HD13	2.10	0.86
1:B:575:ILE:HA	1:B:576:HIS:HB2	1.55	0.86
1:B:597:ILE:HG13	1:B:714:LEU:CA	2.05	0.86
1:A:498:ASN:HB3	1:A:522:VAL:CG1	2.06	0.86
1:A:694:ALA:HB2	1:A:726:TRP:CE3	2.09	0.86
1:B:397:MET:O	1:B:401:LEU:HG	1.75	0.86
1:B:568:LEU:O	1:B:572:THR:N	2.06	0.86
1:B:590:GLU:HA	1:B:607:LYS:HB3	1.58	0.86
1:B:684:THR:OG1	1:B:731:VAL:CG2	2.22	0.86
1:A:40:PHE:CE1	1:A:289:ALA:CB	2.39	0.86
1:A:259:ARG:CB	1:A:266:PRO:HB3	2.05	0.86
1:A:349:ILE:HD12	1:A:357:HIS:H	1.41	0.86
1:A:436:GLU:CD	1:A:439:LEU:HD13	2.01	0.86
1:A:544:GLU:CG	1:A:547:GLU:H	1.89	0.86
1:B:44:PHE:CD1	1:B:333:LEU:HD22	2.11	0.86
1:B:183:PHE:HE2	1:B:184:TYR:HE1	1.18	0.86
1:B:356:SER:HB2	1:B:435:ALA:CA	2.06	0.86
1:B:364:TRP:HB3	1:B:410:VAL:HG11	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:TYR:O	1:A:77:GLY:N	2.08	0.86
1:A:86:VAL:CB	1:A:191:ARG:HG2	2.06	0.86
1:A:99:ASN:CG	1:A:101:GLU:OE2	2.19	0.86
1:A:160:PRO:CB	1:A:208:LYS:HD3	2.05	0.86
1:A:349:ILE:HD11	1:A:355:PRO:C	2.01	0.86
1:B:45:SER:CB	1:B:180:TYR:HA	2.06	0.86
1:B:226:SER:CA	1:B:229:LEU:HB3	2.00	0.86
1:B:284:LEU:HD21	1:B:290:LEU:CD2	2.04	0.86
1:B:521:ASN:C	1:B:539:SER:HB3	1.95	0.86
1:B:623:ILE:HD13	1:B:624:LEU:O	1.75	0.86
1:A:2:PHE:O	1:A:439:LEU:CD1	2.24	0.86
1:A:61:ILE:HG21	1:A:156:HIS:HD2	1.41	0.86
1:B:86:VAL:HG21	1:B:191:ARG:HG3	1.55	0.86
1:B:233:ALA:O	1:B:237:PHE:N	2.08	0.86
1:B:288:LEU:HD13	1:B:495:VAL:HG13	1.58	0.86
1:B:364:TRP:HA	1:B:364:TRP:CE3	2.11	0.86
1:B:408:PHE:HD1	1:B:413:PHE:CE2	1.80	0.86
1:B:437:MET:CE	1:B:550:ALA:HA	2.06	0.86
1:B:460:ALA:O	1:B:464:THR:HG22	1.76	0.86
1:B:745:ALA:HA	1:B:748:LYS:HD3	1.58	0.86
1:A:106:LEU:HD11	1:A:135:LEU:CD2	2.05	0.85
1:A:352:MET:SD	1:A:429:THR:OG1	2.34	0.85
1:A:365:GLN:H	1:A:562:GLN:CA	1.89	0.85
1:A:366:PHE:HZ	1:A:632:ILE:HG13	1.40	0.85
1:A:517:TYR:HE2	1:A:520:TRP:CE2	1.87	0.85
1:A:668:MET:O	1:A:672:VAL:HG23	1.74	0.85
1:B:164:ILE:HG23	1:B:165:LEU:H	1.41	0.85
1:B:317:ILE:HG23	1:B:320:TRP:CH2	2.11	0.85
1:B:366:PHE:HA	1:B:563:ALA:CB	2.06	0.85
1:B:600:LYS:HE3	1:B:707:LEU:HD21	1.57	0.85
1:B:675:LEU:O	1:B:678:ILE:HG13	1.75	0.85
1:B:702:MET:CG	1:B:714:LEU:CD1	2.53	0.85
1:A:24:GLU:HA	1:A:26:LYS:HE2	1.57	0.85
1:A:211:GLN:HG3	1:A:214:PHE:HD2	1.39	0.85
1:A:433:ASN:HB3	1:A:434:GLY:HA3	1.57	0.85
1:A:585:THR:HA	1:A:622:ARG:CZ	2.06	0.85
1:A:630:HIS:HA	1:A:737:LEU:CD1	2.06	0.85
1:B:14:ARG:NE	1:B:26:LYS:HD2	1.89	0.85
1:B:48:MET:HA	1:B:179:THR:CG2	2.05	0.85
1:B:117:ALA:HB1	1:B:222:PRO:HG2	1.58	0.85
1:B:156:HIS:NE2	1:B:157:VAL:CG2	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:LEU:O	1:B:190:VAL:HG22	1.76	0.85
1:B:568:LEU:HD12	1:B:572:THR:HG1	1.03	0.85
1:A:128:PRO:HB2	1:A:168:ALA:HB2	1.58	0.85
1:A:131:ILE:O	1:A:132:LEU:C	2.20	0.85
1:A:181:PRO:HB2	1:A:484:PHE:CE1	2.12	0.85
1:A:501:VAL:CB	1:A:518:LEU:HD12	2.06	0.85
1:B:43:THR:H	1:B:334:ARG:HB3	1.39	0.85
1:B:104:ARG:O	1:B:108:ALA:N	2.09	0.85
1:B:119:LYS:NZ	1:B:217:LYS:HB3	1.92	0.85
1:B:188:ASP:O	1:B:191:ARG:N	2.09	0.85
1:B:477:ASN:HA	1:B:480:LYS:HG3	1.56	0.85
1:A:36:LEU:N	1:A:263:PRO:CB	2.26	0.85
1:A:649:ALA:HA	1:A:652:ARG:HH11	1.39	0.85
1:B:222:PRO:CA	1:B:224:LEU:HG	2.03	0.85
1:B:544:GLU:O	1:B:547:GLU:HB2	1.76	0.85
1:A:31:VAL:CG1	1:A:32:GLY:H	1.83	0.85
1:A:161:LEU:C	1:A:163:PHE:H	1.83	0.85
1:A:630:HIS:CB	1:A:737:LEU:HD11	2.07	0.85
1:A:674:LEU:HA	1:A:677:LYS:CE	2.06	0.85
1:B:346:THR:OG1	1:B:359:VAL:HG21	1.75	0.85
1:B:347:SER:O	1:B:421:TYR:OH	1.93	0.85
1:A:126:VAL:O	1:A:166:PRO:CB	2.25	0.85
1:A:127:PRO:CG	1:A:130:ALA:C	2.50	0.85
1:A:173:ARG:HG2	1:A:579:PRO:CG	2.05	0.85
1:A:744:GLU:C	1:A:747:THR:HG22	2.00	0.85
1:B:13:ALA:HA	1:B:463:ARG:HA	1.56	0.85
1:B:272:SER:OG	1:B:275:LEU:N	2.07	0.85
1:A:176:ARG:NE	1:A:447:ARG:HD3	1.91	0.85
1:A:313:LEU:HA	1:A:315:SER:CB	2.06	0.85
1:A:461:ALA:O	1:A:465:GLY:N	2.09	0.85
1:A:572:THR:HA	1:A:575:ILE:O	1.77	0.85
1:B:118:ILE:H	1:B:222:PRO:CG	1.89	0.85
1:B:349:ILE:HD12	1:B:351:HIS:H	1.39	0.85
1:B:610:GLU:C	1:B:612:LEU:H	1.83	0.85
1:A:3:ASN:ND2	1:A:439:LEU:HD11	1.90	0.85
1:A:173:ARG:CD	1:A:579:PRO:HB3	2.07	0.85
1:A:262:SER:HB3	1:A:516:LEU:CD2	2.05	0.85
1:A:422:GLU:HG3	1:B:116:ARG:HG2	1.59	0.85
1:A:717:GLY:O	1:A:720:ARG:HB3	1.75	0.85
1:B:264:SER:OG	1:B:266:PRO:HD2	1.76	0.85
1:A:59:GLY:O	1:A:61:ILE:HB	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:119:LYS:HB2	1:A:119:LYS:NZ	1.91	0.85
1:A:187:VAL:HA	1:A:190:VAL:CG2	2.06	0.85
1:A:553:LYS:HA	1:A:553:LYS:NZ	1.91	0.85
1:A:557:PRO:HB2	1:A:559:GLU:HB2	1.59	0.85
1:B:4:LEU:HD22	1:B:9:LEU:HA	1.56	0.85
1:B:96:THR:HG22	1:B:234:THR:HG22	1.59	0.85
1:B:373:PHE:HD2	1:B:583:ALA:HB1	1.08	0.85
1:B:705:ARG:HB2	1:B:708:ILE:CG1	2.05	0.85
1:A:49:THR:C	1:A:50:SER:OG	2.10	0.85
1:A:60:ASN:CA	1:A:156:HIS:ND1	2.36	0.85
1:A:106:LEU:HD21	1:A:135:LEU:HD21	1.58	0.85
1:A:144:GLU:OE1	1:A:145:LEU:HG	1.76	0.85
1:A:289:ALA:C	1:A:291:PHE:H	1.85	0.85
1:A:294:TYR:OH	1:A:515:SER:N	2.10	0.85
1:B:118:ILE:HG12	1:B:119:LYS:N	1.91	0.85
1:B:176:ARG:NH1	1:B:446:GLU:HG2	1.92	0.85
1:B:182:ASN:O	1:B:186:LEU:HD12	1.77	0.85
1:B:222:PRO:HA	1:B:224:LEU:CG	2.05	0.85
1:B:451:LEU:HB3	1:B:453:ARG:CD	2.05	0.85
1:B:501:VAL:HA	1:B:519:VAL:O	1.77	0.85
1:B:597:ILE:CB	1:B:714:LEU:HD23	2.02	0.85
1:A:439:LEU:HD23	1:A:439:LEU:H	1.42	0.84
1:A:553:LYS:HA	1:A:553:LYS:CE	2.07	0.84
1:B:182:ASN:HB2	1:B:484:PHE:CD1	2.12	0.84
1:B:642:GLU:O	1:B:645:ARG:HG2	1.76	0.84
1:B:732:LEU:HD23	1:B:733:GLN:N	1.91	0.84
1:A:128:PRO:CB	1:A:166:PRO:O	2.25	0.84
1:A:527:ARG:HH22	1:A:528:ILE:HD13	1.42	0.84
1:A:593:TYR:CD1	1:A:604:ALA:HB3	2.11	0.84
1:B:23:GLY:O	1:B:25:LEU:HD13	1.76	0.84
1:B:491:MET:O	1:B:495:VAL:N	2.08	0.84
1:B:534:ALA:N	1:B:535:ILE:HA	1.90	0.84
1:B:600:LYS:HB2	1:B:602:TYR:CE1	2.10	0.84
1:A:82:VAL:O	1:A:85:LEU:N	2.09	0.84
1:A:119:LYS:O	1:A:219:ALA:N	2.09	0.84
1:A:158:LEU:C	1:A:163:PHE:O	2.20	0.84
1:A:592:ALA:HA	1:A:605:GLU:HA	1.60	0.84
1:A:735:MET:HE3	1:A:737:LEU:CB	2.01	0.84
1:B:614:LEU:HD11	1:B:615:GLY:O	1.77	0.84
1:A:22:ILE:C	1:A:299:LYS:CD	2.48	0.84
1:A:24:GLU:HG3	1:A:26:LYS:CG	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:LYS:CG	1:A:554:PRO:HD2	2.07	0.84
1:A:572:THR:O	1:A:574:SER:N	2.10	0.84
1:A:698:ILE:O	1:A:702:MET:HE3	1.77	0.84
1:B:125:LYS:H	1:B:165:LEU:HD21	1.40	0.84
1:B:659:GLU:O	1:B:663:ILE:HG23	1.77	0.84
1:B:705:ARG:CB	1:B:707:LEU:CD1	2.54	0.84
1:A:282:ASP:CG	1:A:283:GLN:N	2.33	0.84
1:A:288:LEU:O	1:A:289:ALA:C	2.20	0.84
1:A:345:GLN:CD	1:A:346:THR:H	1.84	0.84
1:A:377:LYS:HA	1:A:385:ARG:HA	1.58	0.84
1:B:314:SER:HA	1:B:316:THR:N	1.92	0.84
1:B:607:LYS:HB2	1:B:608:GLU:O	1.76	0.84
1:A:185:ALA:HA	1:A:188:ASP:OD2	1.77	0.84
1:B:94:GLN:N	1:B:237:PHE:CE2	2.40	0.84
1:B:267:LYS:O	1:B:267:LYS:HD2	1.78	0.84
1:B:533:ASN:C	1:B:535:ILE:HD12	2.02	0.84
1:B:552:ASN:HA	1:B:553:LYS:CE	2.06	0.84
1:B:694:ALA:O	1:B:698:ILE:CG1	2.24	0.84
1:A:20:PHE:O	1:A:21:ALA:C	2.17	0.84
1:A:101:GLU:CA	1:A:104:ARG:HD3	2.05	0.84
1:A:314:SER:HB2	1:A:318:ILE:C	2.00	0.84
1:A:493:TYR:CZ	1:A:549:ILE:HG21	2.12	0.84
1:B:24:GLU:OE2	1:B:27:ASN:N	2.08	0.84
1:B:114:SER:CB	1:B:117:ALA:HB2	2.07	0.84
1:B:724:ARG:HB2	1:B:724:ARG:NH1	1.92	0.84
1:B:724:ARG:O	1:B:727:ALA:HB3	1.78	0.84
1:A:36:LEU:N	1:A:502:VAL:HG21	1.91	0.84
1:A:106:LEU:CD1	1:A:135:LEU:HD22	2.07	0.84
1:A:461:ALA:O	1:A:463:ARG:C	2.19	0.84
1:B:93:HIS:CA	1:B:237:PHE:CE1	2.60	0.84
1:B:125:LYS:HA	1:B:128:PRO:CD	2.06	0.84
1:B:354:GLN:HB3	1:B:528:ILE:CB	2.07	0.84
1:B:358:VAL:HG21	1:B:438:THR:N	1.93	0.84
1:B:528:ILE:O	1:B:530:VAL:HG13	1.76	0.84
1:B:600:LYS:HG3	1:B:708:ILE:HG22	1.60	0.84
1:B:643:ASP:CG	1:B:666:ARG:HG2	2.01	0.84
1:A:133:GLU:CD	1:A:136:ARG:CB	2.51	0.84
1:A:193:SER:HA	1:A:196:ARG:CB	2.05	0.84
1:A:549:ILE:CD1	1:A:552:ASN:ND2	2.39	0.84
1:B:49:THR:CG2	1:B:176:ARG:HG3	2.07	0.84
1:B:356:SER:HB2	1:B:435:ALA:HA	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:597:ILE:O	1:B:599:ASN:N	2.10	0.84
1:B:674:LEU:O	1:B:678:ILE:HG23	1.77	0.84
1:A:245:ASP:HB2	1:A:249:VAL:N	1.93	0.84
1:A:258:GLY:HA2	1:A:261:TRP:CE3	2.13	0.84
1:A:523:ARG:CD	1:A:524:THR:C	2.50	0.84
1:A:616:GLN:N	1:A:616:GLN:HE21	1.74	0.84
1:B:92:TYR:CE2	1:B:146:PHE:CD1	2.65	0.84
1:B:360:VAL:HG22	1:B:438:THR:O	1.76	0.84
1:B:377:LYS:HB2	1:B:385:ARG:CZ	2.06	0.84
1:A:41:THR:O	1:A:42:ARG:NH1	2.11	0.83
1:A:107:THR:OG1	1:A:226:SER:OG	1.95	0.83
1:A:208:LYS:HA	1:A:208:LYS:CE	2.05	0.83
1:A:303:ARG:CZ	1:A:303:ARG:HA	2.08	0.83
1:A:649:ALA:HA	1:A:652:ARG:CG	2.07	0.83
1:B:292:ILE:H	1:B:292:ILE:HD12	1.43	0.83
1:B:302:GLY:C	1:B:303:ARG:HH11	1.85	0.83
1:B:702:MET:HA	1:B:702:MET:HE2	1.60	0.83
1:A:36:LEU:N	1:A:263:PRO:HA	1.93	0.83
1:A:129:THR:O	1:A:132:LEU:CA	2.25	0.83
1:A:479:LEU:HB3	1:A:483:MET:HE1	1.60	0.83
1:A:544:GLU:CD	1:A:547:GLU:H	1.86	0.83
1:A:617:ARG:HD3	1:A:618:ARG:N	1.92	0.83
1:A:644:ASP:OD1	1:A:645:ARG:HG2	1.78	0.83
1:B:58:LYS:NZ	1:B:66:TYR:OH	2.11	0.83
1:B:101:GLU:O	1:B:105:LYS:HD2	1.78	0.83
1:B:190:VAL:HG13	1:B:323:GLU:HB3	1.59	0.83
1:B:193:SER:O	1:B:196:ARG:HB3	1.77	0.83
1:B:545:PRO:O	1:B:546:LEU:C	2.18	0.83
1:B:699:VAL:CA	1:B:702:MET:HB2	2.07	0.83
1:A:338:GLU:HA	1:A:341:SER:CB	2.09	0.83
1:A:357:HIS:O	1:A:358:VAL:HG23	1.77	0.83
1:A:417:ARG:CZ	1:A:642:GLU:OE1	2.25	0.83
1:A:476:SER:O	1:A:478:ASP:N	2.11	0.83
1:A:636:TRP:CZ3	1:A:640:PHE:CG	2.66	0.83
1:B:173:ARG:O	1:B:174:VAL:HG13	1.77	0.83
1:B:407:THR:HG21	1:B:408:PHE:HE2	1.36	0.83
1:B:408:PHE:HB3	1:B:632:ILE:HG12	1.60	0.83
1:A:18:GLN:NE2	1:A:18:GLN:O	2.12	0.83
1:A:128:PRO:CD	1:A:166:PRO:CB	2.51	0.83
1:A:602:TYR:HA	1:A:701:GLN:OE1	1.78	0.83
1:B:260:LEU:CG	1:B:285:ARG:HB3	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:VAL:HG21	1:B:635:MET:SD	2.19	0.83
1:A:128:PRO:HA	1:A:166:PRO:CB	2.06	0.83
1:A:197:ARG:C	1:A:199:LEU:N	2.33	0.83
1:A:211:GLN:HG3	1:A:214:PHE:CD2	2.14	0.83
1:A:374:THR:CG2	1:A:390:GLU:HG3	2.07	0.83
1:B:53:LEU:HB2	1:B:173:ARG:HB2	1.57	0.83
1:B:126:VAL:HG12	1:B:127:PRO:CD	2.08	0.83
1:B:371:THR:H	1:B:623:ILE:CD1	1.92	0.83
1:B:501:VAL:HG12	1:B:518:LEU:HB3	1.61	0.83
1:A:4:LEU:HB3	1:A:13:ALA:HB3	1.57	0.83
1:A:344:GLY:O	1:A:360:VAL:CG2	2.26	0.83
1:A:349:ILE:HD11	1:A:356:SER:N	1.92	0.83
1:A:685:GLY:C	1:A:687:GLY:H	1.86	0.83
1:B:44:PHE:CD1	1:B:333:LEU:HD13	2.12	0.83
1:B:455:PRO:HB2	1:B:459:ILE:HD11	1.59	0.83
1:B:481:ARG:HA	1:B:484:PHE:CD2	2.14	0.83
1:A:100:PRO:HG2	1:A:101:GLU:N	1.94	0.83
1:A:109:TYR:O	1:A:110:ILE:HD12	1.78	0.83
1:A:475:ALA:O	1:A:478:ASP:N	2.09	0.83
1:A:533:ASN:HD21	1:A:541:ARG:NH2	1.76	0.83
1:A:627:THR:OG1	1:A:628:VAL:N	2.08	0.83
1:A:676:ARG:HA	1:A:679:GLU:HG2	1.60	0.83
1:B:183:PHE:O	1:B:186:LEU:N	2.12	0.83
1:B:677:LYS:O	1:B:681:ILE:HG13	1.77	0.83
1:A:44:PHE:CB	1:A:333:LEU:HD22	2.08	0.83
1:A:281:ILE:HD12	1:A:282:ASP:HA	1.59	0.83
1:B:102:ILE:HB	1:B:135:LEU:CD1	2.07	0.83
1:B:235:THR:HB	1:B:239:ARG:CZ	2.09	0.83
1:B:245:ASP:CG	1:B:248:ALA:CB	2.51	0.83
1:B:376:VAL:H	1:B:386:PHE:C	1.86	0.83
1:A:355:PRO:O	1:A:356:SER:OG	1.95	0.83
1:A:492:HIS:ND1	1:A:495:VAL:HG21	1.94	0.83
1:B:62:ASP:OD1	1:B:64:VAL:HG22	1.79	0.83
1:B:245:ASP:OD2	1:B:248:ALA:CA	2.27	0.83
1:B:358:VAL:HG11	1:B:438:THR:N	1.94	0.83
1:A:129:THR:C	1:A:132:LEU:H	1.87	0.83
1:A:351:HIS:NE2	1:B:116:ARG:NH2	2.27	0.83
1:A:649:ALA:HA	1:A:652:ARG:HG2	1.60	0.83
1:A:744:GLU:O	1:A:747:THR:HG22	1.79	0.83
1:B:176:ARG:NE	1:B:176:ARG:O	2.12	0.83
1:B:284:LEU:HD11	1:B:290:LEU:HD22	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:307:ILE:HG22	1:B:309:SER:O	1.79	0.83
1:B:317:ILE:HG12	1:B:320:TRP:CE2	2.14	0.83
1:B:723:ILE:HD12	1:B:726:TRP:CD1	2.14	0.83
1:B:740:ARG:CG	1:B:741:SER:N	2.41	0.83
1:A:82:VAL:CA	1:A:85:LEU:HD23	2.07	0.82
1:A:549:ILE:HD13	1:A:552:ASN:HD21	1.42	0.82
1:A:756:LEU:HG	1:A:756:LEU:O	1.79	0.82
1:B:235:THR:O	1:B:239:ARG:HG3	1.78	0.82
1:B:257:LEU:HD23	1:B:294:TYR:HB2	1.60	0.82
1:B:321:PHE:CD1	1:B:325:MET:CG	2.61	0.82
1:B:506:HIS:HA	1:B:507:GLN:HB3	1.59	0.82
1:A:548:ALA:CA	1:A:551:TYR:HB2	2.09	0.82
1:A:643:ASP:O	1:A:646:THR:OG1	1.95	0.82
1:B:53:LEU:HD21	1:B:571:HIS:HE1	1.00	0.82
1:B:61:ILE:HD11	1:B:156:HIS:CA	2.08	0.82
1:B:560:VAL:HG23	1:B:562:GLN:N	1.93	0.82
1:B:568:LEU:O	1:B:571:HIS:N	2.12	0.82
1:B:630:HIS:CG	1:B:634:GLN:HE22	1.97	0.82
1:A:40:PHE:CE2	1:A:291:PHE:CB	2.62	0.82
1:A:56:VAL:HG13	1:A:66:TYR:CE1	2.13	0.82
1:A:234:THR:CA	1:A:237:PHE:HB3	2.08	0.82
1:A:356:SER:O	1:A:437:MET:HE2	1.80	0.82
1:B:4:LEU:C	1:B:436:GLU:HA	2.04	0.82
1:B:280:GLY:O	1:B:283:GLN:NE2	2.11	0.82
1:B:404:ILE:HD12	1:B:737:LEU:HD21	1.61	0.82
1:B:453:ARG:HH11	1:B:453:ARG:N	1.78	0.82
1:B:614:LEU:HD13	1:B:615:GLY:H	0.74	0.82
1:B:628:VAL:O	1:B:631:ALA:HB3	1.79	0.82
1:A:73:TYR:CZ	1:A:143:HIS:CB	2.62	0.82
1:A:422:GLU:CG	1:B:116:ARG:HG2	2.08	0.82
1:A:520:TRP:HB3	1:A:542:THR:HG22	1.60	0.82
1:A:556:GLN:HA	1:A:556:GLN:HE21	1.44	0.82
1:B:275:LEU:HD23	1:B:278:THR:CB	2.09	0.82
1:B:372:ALA:O	1:B:373:PHE:HD1	1.62	0.82
1:B:570:ASN:HD22	1:B:571:HIS:CD2	1.98	0.82
1:B:661:LEU:HD23	1:B:662:ALA:N	1.94	0.82
1:A:89:PHE:CD2	1:A:146:PHE:CD2	2.66	0.82
1:A:493:TYR:CD1	1:A:549:ILE:HD12	2.15	0.82
1:A:623:ILE:HG23	1:A:624:LEU:O	1.80	0.82
1:B:216:ALA:HA	1:B:217:LYS:CG	2.09	0.82
1:B:526:LEU:HD23	1:B:527:ARG:CD	2.06	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:686:ILE:HG13	1:B:687:GLY:H	1.41	0.82
1:A:278:THR:OG1	1:A:281:ILE:N	2.12	0.82
1:A:306:VAL:C	1:A:307:ILE:HG13	2.03	0.82
1:A:350:ASP:N	1:A:353:GLY:O	2.13	0.82
1:A:414:VAL:HA	1:A:639:TRP:HZ3	1.44	0.82
1:A:455:PRO:HA	1:A:458:ALA:HB2	1.61	0.82
1:A:502:VAL:HA	1:A:503:VAL:CB	2.05	0.82
1:A:540:ILE:HG22	1:A:541:ARG:NH2	1.92	0.82
1:A:717:GLY:C	1:A:720:ARG:H	1.86	0.82
1:B:70:PHE:HA	1:B:85:LEU:HD11	1.62	0.82
1:B:103:TRP:CD2	1:B:230:ALA:HB3	2.14	0.82
1:B:314:SER:HA	1:B:316:THR:H	1.44	0.82
1:B:358:VAL:CG1	1:B:438:THR:H	1.93	0.82
1:B:732:LEU:HD23	1:B:733:GLN:CB	2.09	0.82
1:A:313:LEU:HG	1:A:317:ILE:HG23	1.61	0.82
1:B:274:ARG:H	1:B:274:ARG:NH1	1.77	0.82
1:B:288:LEU:HD21	1:B:292:ILE:HD11	1.61	0.82
1:B:404:ILE:CD1	1:B:735:MET:HG3	2.10	0.82
1:B:491:MET:HA	1:B:491:MET:CE	2.09	0.82
1:A:81:SER:O	1:A:84:GLU:HB2	1.78	0.82
1:A:288:LEU:O	1:A:291:PHE:N	2.13	0.82
1:A:329:SER:O	1:A:331:PHE:N	2.13	0.82
1:A:383:ASN:OD1	1:A:384:GLN:N	2.12	0.82
1:A:519:VAL:HG22	1:A:541:ARG:O	1.78	0.82
1:B:46:ALA:HB3	1:B:179:THR:C	2.04	0.82
1:B:51:GLU:OE1	1:B:564:LYS:HB3	1.78	0.82
1:B:187:VAL:O	1:B:190:VAL:HG23	1.79	0.82
1:B:271:PRO:C	1:B:276:ARG:HD2	2.03	0.82
1:B:314:SER:CB	1:B:317:ILE:H	1.92	0.82
1:B:354:GLN:HB3	1:B:528:ILE:HB	1.60	0.82
1:B:364:TRP:HA	1:B:364:TRP:HE3	1.44	0.82
1:A:40:PHE:CB	1:A:288:LEU:C	2.46	0.82
1:A:213:THR:OG1	1:A:215:LYS:HB3	1.79	0.82
1:A:624:LEU:HD12	1:A:626:PRO:HG3	1.60	0.82
1:A:653:THR:HA	1:A:655:ARG:HG2	1.58	0.82
1:B:125:LYS:HD2	1:B:163:PHE:CE1	2.14	0.82
1:B:126:VAL:CG1	1:B:127:PRO:CD	2.58	0.82
1:B:173:ARG:HG3	1:B:566:LEU:CD1	2.09	0.82
1:B:317:ILE:HG12	1:B:320:TRP:NE1	1.94	0.82
1:B:459:ILE:O	1:B:463:ARG:HG3	1.78	0.82
1:A:18:GLN:HA	1:A:21:ALA:CB	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:GLU:CA	1:A:174:VAL:HG21	2.10	0.82
1:A:128:PRO:HA	1:A:166:PRO:HG3	1.59	0.82
1:A:589:TYR:HE2	1:A:591:ASP:CB	1.93	0.82
1:A:689:SER:C	1:A:693:LEU:HD22	2.04	0.82
1:B:651:ARG:CZ	1:B:660:LYS:HG2	2.09	0.82
1:B:733:GLN:NE2	1:B:738:LEU:O	2.13	0.82
1:A:189:CYS:O	1:A:193:SER:OG	1.97	0.81
1:A:544:GLU:OE1	1:A:546:LEU:N	2.13	0.81
1:B:54:TRP:HA	1:B:54:TRP:HE3	1.40	0.81
1:B:245:ASP:OD2	1:B:248:ALA:CB	2.29	0.81
1:B:581:HIS:CD2	1:B:582:GLU:H	1.97	0.81
1:B:623:ILE:CD1	1:B:625:LYS:CA	2.58	0.81
1:A:117:ALA:C	1:A:118:ILE:HG22	2.03	0.81
1:A:729:LEU:CD1	1:A:733:GLN:CG	1.91	0.81
1:B:131:ILE:HG13	1:B:134:GLN:HG2	1.61	0.81
1:B:317:ILE:HA	1:B:320:TRP:CG	2.15	0.81
1:B:317:ILE:HG23	1:B:320:TRP:CZ3	2.15	0.81
1:B:362:GLU:CD	1:B:635:MET:HE2	2.05	0.81
1:B:451:LEU:O	1:B:453:ARG:NH1	2.13	0.81
1:B:477:ASN:OD1	1:B:480:LYS:HB2	1.79	0.81
1:A:6:VAL:HA	1:A:9:LEU:CD1	2.08	0.81
1:A:40:PHE:HB3	1:A:288:LEU:HB3	1.62	0.81
1:A:44:PHE:HB2	1:A:333:LEU:HD22	1.61	0.81
1:A:53:LEU:HA	1:A:172:TYR:O	1.81	0.81
1:A:104:ARG:HB3	1:A:104:ARG:NH1	1.96	0.81
1:A:250:VAL:CB	1:A:253:VAL:HG13	2.07	0.81
1:A:272:SER:HB2	1:A:275:LEU:HD13	1.61	0.81
1:A:307:ILE:HD12	1:A:308:PHE:CD1	2.15	0.81
1:A:365:GLN:N	1:A:562:GLN:HA	1.92	0.81
1:A:366:PHE:CZ	1:A:632:ILE:HG13	2.16	0.81
1:A:507:GLN:CD	1:A:508:GLY:H	1.88	0.81
1:A:510:ALA:CB	1:A:511:ALA:HB2	2.11	0.81
1:A:541:ARG:HD2	1:A:542:THR:HA	1.61	0.81
1:A:553:LYS:HG3	1:A:554:PRO:CD	2.11	0.81
1:B:52:LEU:O	1:B:174:VAL:N	2.13	0.81
1:B:55:GLU:OE1	1:B:169:ALA:HB1	1.80	0.81
1:B:113:SER:HB3	1:B:115:ASN:CG	2.05	0.81
1:B:506:HIS:HB2	1:B:517:TYR:HH	1.46	0.81
1:B:686:ILE:O	1:B:688:ALA:N	2.11	0.81
1:B:712:SER:OG	1:B:715:HIS:N	2.13	0.81
1:A:630:HIS:HA	1:A:737:LEU:HG	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:128:PRO:CA	1:B:131:ILE:HG22	2.09	0.81
1:B:582:GLU:OE1	1:B:624:LEU:CD1	2.28	0.81
1:B:642:GLU:CG	1:B:645:ARG:NH1	2.43	0.81
1:A:177:THR:HG22	1:A:178:ALA:H	1.44	0.81
1:A:293:ALA:HA	1:A:296:ASP:OD2	1.81	0.81
1:A:454:ASP:O	1:A:457:VAL:HG12	1.80	0.81
1:B:23:GLY:C	1:B:506:HIS:HE1	1.88	0.81
1:B:156:HIS:NE2	1:B:210:LEU:HD22	1.91	0.81
1:B:243:ASN:ND2	1:B:244:PHE:HB2	1.95	0.81
1:B:535:ILE:HD13	1:B:540:ILE:HA	1.62	0.81
1:B:580:TRP:HH2	1:B:583:ALA:HB2	1.40	0.81
1:A:15:GLY:HA2	1:A:20:PHE:HD2	1.46	0.81
1:A:133:GLU:CD	1:A:136:ARG:HB3	2.05	0.81
1:A:232:ALA:O	1:A:236:ALA:HB2	1.80	0.81
1:A:365:GLN:CG	1:A:367:ALA:H	1.93	0.81
1:B:36:LEU:H	1:B:36:LEU:HD12	1.46	0.81
1:B:89:PHE:CD1	1:B:146:PHE:CD2	2.68	0.81
1:A:10:ASN:OD1	1:A:14:ARG:HG2	1.80	0.81
1:A:128:PRO:HB3	1:A:166:PRO:O	1.81	0.81
1:A:477:ASN:O	1:A:480:LYS:HB3	1.81	0.81
1:A:729:LEU:HD21	1:A:738:LEU:CD1	2.10	0.81
1:A:736:GLY:O	1:A:737:LEU:HD22	1.81	0.81
1:A:752:ASP:C	1:A:754:ASN:O	2.23	0.81
1:B:45:SER:CA	1:B:181:PRO:HD3	2.10	0.81
1:B:84:GLU:C	1:B:87:ASN:HD22	1.87	0.81
1:B:109:TYR:CZ	1:B:131:ILE:HG12	2.14	0.81
1:B:173:ARG:CD	1:B:174:VAL:N	2.40	0.81
1:B:215:LYS:HA	1:B:215:LYS:HZ3	1.45	0.81
1:B:357:HIS:NE2	1:B:420:VAL:HG21	1.96	0.81
1:B:383:ASN:O	1:B:384:GLN:C	2.19	0.81
1:B:600:LYS:CE	1:B:707:LEU:HD21	2.10	0.81
1:B:693:LEU:HG	1:B:697:ARG:CZ	2.11	0.81
1:A:52:LEU:CD1	1:A:53:LEU:H	1.94	0.81
1:A:345:GLN:HA	1:A:360:VAL:CG1	2.11	0.81
1:A:432:SER:O	1:A:433:ASN:ND2	2.12	0.81
1:A:546:LEU:HD12	1:A:546:LEU:O	1.79	0.81
1:B:118:ILE:HG12	1:B:119:LYS:H	1.45	0.81
1:B:144:GLU:C	1:B:145:LEU:HD12	2.05	0.81
1:B:268:GLU:OE1	1:B:268:GLU:HA	1.79	0.81
1:A:4:LEU:H	1:A:436:GLU:HB2	1.44	0.81
1:A:16:LEU:CD1	1:A:463:ARG:HA	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:LEU:N	1:A:263:PRO:CA	2.43	0.81
1:A:334:ARG:HG2	1:A:334:ARG:HH11	1.45	0.81
1:A:462:LEU:CD1	1:A:483:MET:HG3	2.09	0.81
1:A:520:TRP:HB2	1:A:542:THR:O	1.81	0.81
1:A:748:LYS:NZ	1:A:748:LYS:O	2.14	0.81
1:B:53:LEU:HA	1:B:173:ARG:CA	2.09	0.81
1:B:267:LYS:NZ	1:B:268:GLU:H	1.79	0.81
1:B:317:ILE:HG23	1:B:320:TRP:CZ2	2.16	0.81
1:B:580:TRP:CE3	1:B:581:HIS:HA	2.15	0.81
1:B:700:ASP:O	1:B:704:GLY:N	2.14	0.81
1:A:176:ARG:HH11	1:A:446:GLU:HG2	1.43	0.81
1:A:347:SER:O	1:A:358:VAL:HG22	1.81	0.81
1:A:359:VAL:HG13	1:A:438:THR:C	2.06	0.81
1:B:249:VAL:HG23	1:B:318:ILE:CG2	2.09	0.81
1:B:526:LEU:HD23	1:B:527:ARG:NH1	1.96	0.81
1:B:686:ILE:CG1	1:B:687:GLY:N	2.43	0.81
1:A:3:ASN:CG	1:A:439:LEU:HD21	2.05	0.80
1:A:89:PHE:CE2	1:A:146:PHE:CD2	2.63	0.80
1:A:161:LEU:HD13	1:A:162:GLY:N	1.96	0.80
1:A:735:MET:CG	1:A:737:LEU:H	1.92	0.80
1:B:92:TYR:CZ	1:B:139:ALA:HB1	2.16	0.80
1:B:251:SER:O	1:B:255:THR:HG23	1.82	0.80
1:B:348:ALA:CB	1:B:355:PRO:HA	2.02	0.80
1:A:183:PHE:HE2	1:A:184:TYR:CE1	1.95	0.80
1:A:687:GLY:O	1:A:690:ALA:N	2.14	0.80
1:B:35:GLN:CB	1:B:502:VAL:HB	2.08	0.80
1:B:269:LEU:HD13	1:B:271:PRO:HD2	1.62	0.80
1:B:408:PHE:CZ	1:B:633:ILE:CD1	2.65	0.80
1:B:501:VAL:HG12	1:B:502:VAL:N	1.94	0.80
1:B:519:VAL:CG1	1:B:543:PRO:HB3	2.08	0.80
1:B:580:TRP:CD2	1:B:581:HIS:HA	2.17	0.80
1:B:642:GLU:CG	1:B:645:ARG:CZ	2.58	0.80
1:A:40:PHE:HD2	1:A:288:LEU:O	1.64	0.80
1:A:173:ARG:HG2	1:A:579:PRO:CB	2.11	0.80
1:A:229:LEU:O	1:A:233:ALA:CB	2.24	0.80
1:A:525:GLU:OE2	1:A:527:ARG:HB3	1.80	0.80
1:A:690:ALA:O	1:A:693:LEU:N	2.15	0.80
1:B:14:ARG:HG2	1:B:14:ARG:HH11	1.47	0.80
1:B:253:VAL:O	1:B:256:ILE:HG22	1.82	0.80
1:B:412:ALA:O	1:B:415:LYS:HB3	1.81	0.80
1:B:535:ILE:HG23	1:B:537:GLY:N	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:600:LYS:HG3	1:B:708:ILE:CG2	2.12	0.80
1:A:309:SER:OG	1:A:313:LEU:O	1.99	0.80
1:A:329:SER:C	1:A:331:PHE:H	1.89	0.80
1:A:593:TYR:HD1	1:A:604:ALA:HB3	1.45	0.80
1:B:13:ALA:O	1:B:16:LEU:HB2	1.82	0.80
1:B:53:LEU:HD23	1:B:53:LEU:O	1.80	0.80
1:B:124:GLY:H	1:B:165:LEU:HD11	1.47	0.80
1:B:226:SER:O	1:B:229:LEU:HB3	1.80	0.80
1:A:527:ARG:CZ	1:A:528:ILE:H	1.93	0.80
1:A:553:LYS:CD	1:A:554:PRO:HD2	2.12	0.80
1:A:630:HIS:HA	1:A:737:LEU:CG	2.10	0.80
1:B:456:MET:CE	1:B:637:TYR:OH	2.29	0.80
1:B:685:GLY:O	1:B:686:ILE:C	2.21	0.80
1:A:181:PRO:HB2	1:A:484:PHE:CD1	2.16	0.80
1:A:250:VAL:HB	1:A:253:VAL:HG13	1.62	0.80
1:B:5:LYS:HD3	1:B:435:ALA:O	1.80	0.80
1:B:82:VAL:N	1:B:188:ASP:OD2	2.15	0.80
1:B:228:HIS:O	1:B:229:LEU:C	2.24	0.80
1:B:260:LEU:O	1:B:260:LEU:HD13	1.82	0.80
1:A:355:PRO:HG3	1:A:529:PRO:HG3	1.61	0.80
1:B:5:LYS:HA	1:B:435:ALA:H	1.46	0.80
1:B:43:THR:HG23	1:B:287:ASN:OD1	1.81	0.80
1:B:75:GLN:OE1	1:B:177:THR:HB	1.81	0.80
1:B:106:LEU:HD11	1:B:154:VAL:HG11	1.64	0.80
1:B:201:ALA:O	1:B:205:VAL:N	2.14	0.80
1:B:321:PHE:HZ	1:B:326:SER:HB3	1.45	0.80
1:B:371:THR:N	1:B:623:ILE:CG1	2.45	0.80
1:B:705:ARG:HA	1:B:705:ARG:HE	1.45	0.80
1:B:742:GLU:O	1:B:745:ALA:N	2.13	0.80
1:A:524:THR:CG2	1:A:540:ILE:HG12	2.12	0.80
1:B:125:LYS:C	1:B:165:LEU:CD2	2.55	0.80
1:B:479:LEU:HG	1:B:483:MET:SD	2.22	0.80
1:B:740:ARG:O	1:B:742:GLU:N	2.13	0.80
1:A:237:PHE:HA	1:A:240:SER:HB3	1.64	0.80
1:A:388:ASP:CG	1:A:389:VAL:N	2.33	0.80
1:A:547:GLU:HA	1:A:550:ALA:CB	2.11	0.80
1:A:718:ILE:CA	1:A:721:HIS:HB2	2.09	0.80
1:B:4:LEU:CA	1:B:5:LYS:HG2	2.08	0.80
1:B:181:PRO:HB3	1:B:331:PHE:CZ	2.16	0.80
1:B:356:SER:HB2	1:B:435:ALA:HB2	1.63	0.80
1:B:409:ALA:O	1:B:412:ALA:HB3	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:716:VAL:N	1:B:720:ARG:HH21	1.80	0.80
1:A:45:SER:HB3	1:A:333:LEU:N	1.97	0.80
1:A:197:ARG:O	1:A:198:MET:C	2.24	0.80
1:A:343:ILE:HG13	1:A:344:GLY:H	1.47	0.80
1:B:158:LEU:HA	1:B:159:SER:C	2.06	0.80
1:B:396:ARG:HD2	1:B:612:LEU:HD22	0.88	0.80
1:A:347:SER:HB2	1:A:554:PRO:HB3	1.63	0.79
1:A:723:ILE:HG23	1:A:724:ARG:CD	2.06	0.79
1:B:204:SER:O	1:B:208:LYS:N	2.16	0.79
1:B:276:ARG:C	1:B:285:ARG:HH22	1.90	0.79
1:B:317:ILE:HG23	1:B:320:TRP:CE2	2.17	0.79
1:B:462:LEU:CD1	1:B:463:ARG:CG	2.60	0.79
1:B:575:ILE:CB	1:B:576:HIS:HB2	2.12	0.79
1:B:587:PHE:N	1:B:621:VAL:O	2.15	0.79
1:A:59:GLY:HA3	1:A:155:CYS:SG	2.22	0.79
1:A:234:THR:CA	1:A:237:PHE:HB2	2.08	0.79
1:A:377:LYS:HE2	1:A:377:LYS:C	2.08	0.79
1:A:676:ARG:HG2	1:A:676:ARG:HH11	1.48	0.79
1:B:38:LEU:HD11	1:B:501:VAL:C	2.07	0.79
1:B:43:THR:H	1:B:334:ARG:CB	1.95	0.79
1:B:159:SER:HB2	1:B:161:LEU:O	1.81	0.79
1:B:221:ALA:HB1	1:B:222:PRO:HD2	1.65	0.79
1:B:274:ARG:HH11	1:B:274:ARG:N	1.79	0.79
1:B:364:TRP:CE2	1:B:442:PRO:HB3	2.18	0.79
1:A:108:ALA:O	1:A:112:GLY:O	2.00	0.79
1:A:234:THR:HG23	1:A:237:PHE:CG	2.17	0.79
1:A:263:PRO:HG3	1:A:502:VAL:CG2	2.11	0.79
1:A:365:GLN:HG2	1:A:367:ALA:N	1.93	0.79
1:A:671:ALA:HA	1:A:674:LEU:CD1	2.13	0.79
1:B:38:LEU:CD2	1:B:501:VAL:HB	2.12	0.79
1:B:71:PHE:CZ	1:B:330:PRO:HD3	2.17	0.79
1:B:128:PRO:HB3	1:B:131:ILE:HG21	1.63	0.79
1:B:323:GLU:O	1:B:326:SER:N	2.15	0.79
1:B:403:PRO:O	1:B:406:ASN:N	2.16	0.79
1:A:86:VAL:HB	1:A:191:ARG:HD2	1.63	0.79
1:A:183:PHE:CE2	1:A:184:TYR:HE1	1.99	0.79
1:A:433:ASN:HB3	1:A:434:GLY:CA	2.12	0.79
1:B:195:LEU:CD2	1:B:199:LEU:HD11	2.12	0.79
1:B:373:PHE:CG	1:B:583:ALA:HB1	2.11	0.79
1:B:560:VAL:C	1:B:561:LEU:HD23	2.07	0.79
1:B:723:ILE:HA	1:B:726:TRP:HB2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ARG:HH12	1:A:329:SER:HA	1.48	0.79
1:B:178:ALA:HB2	1:B:447:ARG:NH2	1.98	0.79
1:B:260:LEU:HD13	1:B:261:TRP:CD1	2.17	0.79
1:B:674:LEU:CD1	1:B:749:VAL:HG11	2.12	0.79
1:B:740:ARG:HG3	1:B:741:SER:N	1.97	0.79
1:A:42:ARG:HG2	1:A:43:THR:O	1.82	0.79
1:A:53:LEU:HD13	1:A:171:VAL:HG13	1.63	0.79
1:A:430:VAL:CG1	1:A:529:PRO:HB3	2.13	0.79
1:A:700:ASP:O	1:A:704:GLY:N	2.15	0.79
1:B:40:PHE:HB3	1:B:42:ARG:HG3	1.65	0.79
1:B:284:LEU:O	1:B:287:ASN:HB2	1.82	0.79
1:B:294:TYR:CE2	1:B:516:LEU:HD11	2.17	0.79
1:B:633:ILE:CG2	1:B:738:LEU:CD1	2.61	0.79
1:A:64:VAL:HG11	1:A:196:ARG:HE	1.46	0.79
1:A:387:LEU:HD12	1:A:572:THR:CG2	2.11	0.79
1:A:582:GLU:C	1:A:625:LYS:HZ3	1.91	0.79
1:B:58:LYS:HG2	1:B:59:GLY:N	1.97	0.79
1:B:156:HIS:HB3	1:B:206:ASP:CG	2.08	0.79
1:B:371:THR:H	1:B:623:ILE:HD11	1.47	0.79
1:B:372:ALA:HB2	1:B:389:VAL:HG23	1.60	0.79
1:A:3:ASN:OD1	1:A:439:LEU:HD21	1.82	0.79
1:A:49:THR:HG23	1:A:50:SER:H	1.48	0.79
1:A:201:ALA:O	1:A:204:SER:N	2.15	0.79
1:A:351:HIS:C	1:A:353:GLY:HA2	2.08	0.79
1:A:387:LEU:CD1	1:A:572:THR:HG21	2.13	0.79
1:A:472:GLU:HG2	1:A:474:ARG:O	1.81	0.79
1:B:8:ASP:OD1	1:B:9:LEU:C	2.26	0.79
1:B:214:PHE:HA	1:B:220:LEU:CD2	2.08	0.79
1:B:234:THR:O	1:B:237:PHE:N	2.16	0.79
1:B:358:VAL:CG1	1:B:437:MET:HA	2.13	0.79
1:B:633:ILE:CG2	1:B:738:LEU:CD2	2.29	0.79
1:B:695:GLN:CA	1:B:698:ILE:HG13	2.12	0.79
1:A:71:PHE:O	1:A:74:ALA:HB3	1.82	0.79
1:A:221:ALA:CB	1:A:225:ILE:HG13	2.11	0.79
1:A:346:THR:HG1	1:A:358:VAL:HA	1.46	0.79
1:A:377:LYS:HG2	1:A:379:ALA:O	1.82	0.79
1:B:38:LEU:HD21	1:B:501:VAL:CA	2.12	0.79
1:B:45:SER:OG	1:B:180:TYR:HA	1.83	0.79
1:B:163:PHE:CB	1:B:164:ILE:HG22	2.07	0.79
1:B:183:PHE:HA	1:B:186:LEU:HD13	0.82	0.79
1:B:424:VAL:CG2	1:B:430:VAL:CG1	2.59	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:702:MET:SD	1:B:714:LEU:CG	2.71	0.79
1:A:232:ALA:HA	1:A:235:THR:CB	2.09	0.79
1:A:498:ASN:ND2	1:A:522:VAL:HA	1.98	0.79
1:A:544:GLU:HG3	1:A:547:GLU:N	1.98	0.79
1:A:649:ALA:CA	1:A:652:ARG:HG2	2.13	0.79
1:B:73:TYR:HA	1:B:76:ALA:HB3	1.65	0.79
1:B:363:ASP:H	1:B:441:PHE:HA	1.48	0.79
1:A:186:LEU:O	1:A:190:VAL:HG22	1.83	0.78
1:A:377:LYS:HB2	1:A:385:ARG:HG2	0.89	0.78
1:A:544:GLU:HB3	1:A:545:PRO:HA	1.65	0.78
1:A:644:ASP:OD1	1:A:645:ARG:N	2.15	0.78
1:A:742:GLU:O	1:A:746:LEU:HB2	1.82	0.78
1:B:70:PHE:HA	1:B:85:LEU:CD1	2.12	0.78
1:B:83:ASP:HA	1:B:191:ARG:CG	2.12	0.78
1:B:97:ALA:HB2	1:B:234:THR:HB	1.63	0.78
1:B:156:HIS:CD2	1:B:157:VAL:N	2.44	0.78
1:B:423:ALA:O	1:B:430:VAL:HG22	1.83	0.78
1:B:471:LEU:HD11	1:B:479:LEU:CD2	2.11	0.78
1:B:652:ARG:HA	1:B:652:ARG:HE	1.47	0.78
1:B:667:ARG:O	1:B:670:ASN:HB3	1.83	0.78
1:B:694:ALA:HA	1:B:697:ARG:NH2	1.98	0.78
1:B:719:ASN:CG	1:B:720:ARG:H	1.91	0.78
1:A:36:LEU:HG	1:A:263:PRO:C	2.08	0.78
1:A:224:LEU:HD12	1:A:224:LEU:O	1.82	0.78
1:B:125:LYS:N	1:B:165:LEU:CD2	2.43	0.78
1:B:205:VAL:O	1:B:209:MET:N	2.15	0.78
1:B:294:TYR:HE2	1:B:516:LEU:HD21	1.48	0.78
1:B:309:SER:CB	1:B:315:SER:HA	2.13	0.78
1:B:400:THR:O	1:B:403:PRO:HD2	1.82	0.78
1:B:497:HIS:HB2	1:B:549:ILE:CD1	1.77	0.78
1:B:519:VAL:HG12	1:B:543:PRO:CA	2.12	0.78
1:B:640:PHE:HA	1:B:670:ASN:OD1	1.83	0.78
1:A:18:GLN:CD	1:A:520:TRP:HH2	1.91	0.78
1:A:56:VAL:HG22	1:A:66:TYR:CE1	2.17	0.78
1:A:338:GLU:CA	1:A:341:SER:HB2	2.11	0.78
1:A:459:ILE:HG12	1:A:486:TYR:HE2	1.47	0.78
1:A:553:LYS:HE3	1:A:554:PRO:CD	2.12	0.78
1:A:600:LYS:HB2	1:A:602:TYR:HE1	1.48	0.78
1:A:718:ILE:O	1:A:721:HIS:CA	2.31	0.78
1:B:127:PRO:C	1:B:128:PRO:CA	2.56	0.78
1:B:354:GLN:CB	1:B:528:ILE:CB	2.56	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:384:GLN:O	1:B:385:ARG:HG2	1.83	0.78
1:B:416:ASN:HD21	1:B:673:THR:HG23	1.49	0.78
1:B:505:GLU:HB2	1:B:507:GLN:N	1.99	0.78
1:A:128:PRO:HA	1:A:166:PRO:HG2	0.79	0.78
1:A:396:ARG:HE	1:A:612:LEU:HD13	1.48	0.78
1:A:408:PHE:CD1	1:A:636:TRP:HE1	1.40	0.78
1:B:14:ARG:HD3	1:B:465:GLY:HA3	1.65	0.78
1:B:607:LYS:HB2	1:B:608:GLU:CA	2.12	0.78
1:B:693:LEU:HG	1:B:697:ARG:NH2	1.99	0.78
1:B:719:ASN:CG	1:B:720:ARG:N	2.40	0.78
1:A:8:ASP:HA	1:A:11:GLY:HA3	1.65	0.78
1:A:84:GLU:O	1:A:88:GLN:HG3	1.84	0.78
1:A:523:ARG:CD	1:A:524:THR:O	2.31	0.78
1:B:4:LEU:O	1:B:437:MET:N	2.16	0.78
1:B:14:ARG:CB	1:B:465:GLY:HA2	2.13	0.78
1:B:22:ILE:HG21	1:B:517:TYR:CD1	2.19	0.78
1:B:70:PHE:CD2	1:B:195:LEU:HD13	2.19	0.78
1:B:364:TRP:HZ2	1:B:628:VAL:HG22	1.49	0.78
1:B:399:ALA:O	1:B:402:ALA:HB3	1.82	0.78
1:B:642:GLU:HG2	1:B:645:ARG:NH2	1.99	0.78
1:A:61:ILE:HG12	1:A:62:ASP:H	1.49	0.78
1:A:189:CYS:HB3	1:A:323:GLU:CG	2.13	0.78
1:A:217:LYS:C	1:A:219:ALA:HB2	2.08	0.78
1:A:297:MET:HE3	1:A:297:MET:O	1.83	0.78
1:A:303:ARG:NH1	1:A:513:GLN:HG3	1.96	0.78
1:A:315:SER:CA	1:A:318:ILE:HB	1.76	0.78
1:A:393:ILE:CG2	1:A:612:LEU:CD1	2.62	0.78
1:B:313:LEU:HA	1:B:316:THR:CB	2.13	0.78
1:B:342:TYR:HD2	1:B:559:GLU:CG	1.96	0.78
1:B:400:THR:HG21	1:B:686:ILE:HG23	1.65	0.78
1:A:51:GLU:HA	1:A:174:VAL:CB	2.12	0.78
1:A:52:LEU:CA	1:A:174:VAL:HG13	2.14	0.78
1:A:212:ALA:HB1	1:A:221:ALA:HA	1.66	0.78
1:B:369:GLU:C	1:B:370:ILE:HG12	2.08	0.78
1:B:681:ILE:HG21	1:B:731:VAL:CG1	1.83	0.78
1:A:85:LEU:HD23	1:A:85:LEU:H	1.47	0.78
1:A:117:ALA:O	1:A:220:LEU:HA	1.61	0.78
1:A:117:ALA:O	1:A:118:ILE:CG2	2.31	0.78
1:A:352:MET:CB	1:A:355:PRO:HD2	2.08	0.78
1:A:411:SER:O	1:A:415:LYS:HG2	1.84	0.78
1:A:589:TYR:HE2	1:A:591:ASP:HB2	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:TYR:CE2	1:B:492:HIS:ND1	2.49	0.78
1:B:183:PHE:CE1	1:B:250:VAL:CG1	2.66	0.78
1:B:393:ILE:HA	1:B:612:LEU:CD1	2.14	0.78
1:B:583:ALA:HA	1:B:624:LEU:CB	2.11	0.78
1:B:627:THR:O	1:B:628:VAL:C	2.23	0.78
1:B:670:ASN:ND2	1:B:674:LEU:HD12	1.97	0.78
1:A:86:VAL:HG21	1:A:191:ARG:CG	2.13	0.78
1:A:99:ASN:ND2	1:A:101:GLU:CD	2.42	0.78
1:A:116:ARG:O	1:A:220:LEU:HD11	1.83	0.78
1:A:237:PHE:HA	1:A:240:SER:CB	2.14	0.78
1:A:404:ILE:CD1	1:A:681:ILE:HD12	2.14	0.78
1:A:562:GLN:NE2	1:A:562:GLN:O	2.16	0.78
1:A:598:ARG:HD2	1:A:598:ARG:N	1.93	0.78
1:A:652:ARG:HH11	1:A:652:ARG:HG3	1.48	0.78
1:A:670:ASN:O	1:A:674:LEU:HG	1.83	0.78
1:B:100:PRO:O	1:B:103:TRP:HB2	1.84	0.78
1:B:343:ILE:HD11	1:B:493:TYR:CZ	2.19	0.78
1:B:345:GLN:O	1:B:554:PRO:HB3	1.84	0.78
1:B:471:LEU:CD1	1:B:479:LEU:CD2	2.60	0.78
1:B:478:ASP:OD1	1:B:479:LEU:N	2.17	0.78
1:B:521:ASN:CB	1:B:541:ARG:HD3	2.12	0.78
1:B:650:ALA:O	1:B:653:THR:OG1	2.00	0.78
1:A:45:SER:C	1:A:332:LYS:HB2	2.09	0.78
1:A:101:GLU:O	1:A:103:TRP:N	2.15	0.78
1:A:404:ILE:HD13	1:A:681:ILE:HD12	1.65	0.78
1:B:71:PHE:CE2	1:B:330:PRO:HD3	2.18	0.78
1:B:98:CYS:O	1:B:100:PRO:HD2	1.83	0.78
1:B:106:LEU:C	1:B:110:ILE:HG13	2.09	0.78
1:B:199:LEU:C	1:B:202:LEU:HB2	2.09	0.78
1:B:303:ARG:NH1	1:B:303:ARG:HG3	1.97	0.78
1:B:385:ARG:C	1:B:386:PHE:HD1	1.92	0.78
1:B:721:HIS:HD1	1:B:721:HIS:H	1.31	0.78
1:A:4:LEU:HG	1:A:436:GLU:CG	2.15	0.77
1:A:4:LEU:HD13	1:A:9:LEU:HB2	1.65	0.77
1:A:161:LEU:HD23	1:A:211:GLN:HB2	1.64	0.77
1:A:448:ASP:HB2	1:A:455:PRO:CG	2.14	0.77
1:B:37:PRO:O	1:B:261:TRP:CZ3	2.37	0.77
1:B:102:ILE:HG13	1:B:103:TRP:CZ3	2.19	0.77
1:B:173:ARG:HG3	1:B:173:ARG:HH11	1.47	0.77
1:B:360:VAL:HG22	1:B:438:THR:C	2.08	0.77
1:B:535:ILE:CD1	1:B:540:ILE:HA	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:633:ILE:HG21	1:B:738:LEU:CG	2.13	0.77
1:A:258:GLY:HA3	1:A:294:TYR:HD2	1.50	0.77
1:A:688:ALA:CA	1:A:691:VAL:HG23	2.13	0.77
1:B:49:THR:O	1:B:564:LYS:HD2	1.83	0.77
1:B:57:GLY:H	1:B:58:LYS:NZ	1.82	0.77
1:B:276:ARG:HG2	1:B:276:ARG:HH11	1.49	0.77
1:A:51:GLU:CA	1:A:174:VAL:HG11	2.14	0.77
1:A:404:ILE:HD11	1:A:681:ILE:CG2	2.09	0.77
1:A:542:THR:HG23	1:A:544:GLU:CB	2.14	0.77
1:B:171:VAL:CG1	1:B:577:ILE:CA	2.63	0.77
1:B:269:LEU:CD1	1:B:271:PRO:HD2	2.13	0.77
1:B:607:LYS:HB2	1:B:609:PHE:HD1	1.47	0.77
1:A:292:ILE:HG23	1:A:295:GLN:HB3	1.51	0.77
1:A:303:ARG:NE	1:A:304:ALA:H	1.82	0.77
1:A:520:TRP:H	1:A:542:THR:H	1.27	0.77
1:A:630:HIS:O	1:A:633:ILE:HG13	1.85	0.77
1:A:689:SER:O	1:A:690:ALA:C	2.25	0.77
1:B:14:ARG:HB2	1:B:465:GLY:CA	2.15	0.77
1:B:180:TYR:CE2	1:B:492:HIS:HE1	2.03	0.77
1:B:368:LYS:HD3	1:B:369:GLU:OE2	1.84	0.77
1:B:394:SER:HA	1:B:397:MET:HE3	1.65	0.77
1:B:614:LEU:CD1	1:B:615:GLY:C	2.57	0.77
1:A:126:VAL:CG2	1:A:165:LEU:CB	2.18	0.77
1:A:327:GLU:HA	1:A:331:PHE:HZ	1.50	0.77
1:B:69:LEU:HD12	1:B:172:TYR:CE1	2.19	0.77
1:B:123:VAL:CA	1:B:164:ILE:HG21	2.11	0.77
1:B:196:ARG:NE	1:B:196:ARG:O	2.17	0.77
1:B:255:THR:HG21	1:B:303:ARG:O	1.83	0.77
1:B:366:PHE:CZ	1:B:632:ILE:HG21	2.18	0.77
1:B:526:LEU:C	1:B:527:ARG:NH1	2.43	0.77
1:A:2:PHE:CZ	1:A:486:TYR:HE2	1.96	0.77
1:A:18:GLN:C	1:A:21:ALA:H	1.91	0.77
1:A:189:CYS:CB	1:A:323:GLU:HG3	2.14	0.77
1:A:274:ARG:HG2	1:A:274:ARG:HH11	1.50	0.77
1:A:476:SER:C	1:A:478:ASP:N	2.37	0.77
1:B:340:THR:O	1:B:342:TYR:CE1	2.37	0.77
1:B:408:PHE:CE1	1:B:413:PHE:CZ	2.70	0.77
1:B:535:ILE:HG12	1:B:540:ILE:CA	2.14	0.77
1:A:81:SER:C	1:A:85:LEU:HD21	2.08	0.77
1:A:448:ASP:HB3	1:A:453:ARG:CB	2.15	0.77
1:A:502:VAL:CA	1:A:503:VAL:HG12	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:TRP:CD2	1:A:545:PRO:CG	2.63	0.77
1:B:83:ASP:O	1:B:87:ASN:HB3	1.85	0.77
1:B:365:GLN:HA	1:B:365:GLN:HE21	1.48	0.77
1:B:453:ARG:HD2	1:B:453:ARG:H	1.48	0.77
1:B:568:LEU:HD11	1:B:572:THR:OG1	1.79	0.77
1:A:86:VAL:CB	1:A:191:ARG:CG	2.63	0.77
1:A:218:GLY:HA2	1:A:219:ALA:HB3	1.67	0.77
1:A:344:GLY:CA	1:A:361:TYR:H	1.98	0.77
1:A:417:ARG:HB2	1:A:639:TRP:CE3	2.19	0.77
1:A:468:ASP:O	1:A:469:GLU:HG3	1.84	0.77
1:A:558:SER:OG	1:A:559:GLU:N	2.17	0.77
1:B:3:ASN:C	1:B:4:LEU:HD12	2.09	0.77
1:B:107:THR:HA	1:B:110:ILE:CG1	2.14	0.77
1:B:125:LYS:HD2	1:B:163:PHE:CD1	2.19	0.77
1:B:288:LEU:HD22	1:B:495:VAL:HG11	1.65	0.77
1:B:623:ILE:CD1	1:B:625:LYS:HA	2.15	0.77
1:A:42:ARG:CG	1:A:336:ILE:HD11	2.10	0.77
1:A:92:TYR:CE1	1:A:150:THR:HG21	2.20	0.77
1:A:236:ALA:O	1:A:240:SER:HB3	1.84	0.77
1:A:334:ARG:HG3	1:A:335:PRO:CD	2.14	0.77
1:A:441:PHE:HB3	1:A:443:SER:HG	1.50	0.77
1:A:588:ALA:HB1	1:A:589:TYR:HA	1.66	0.77
1:B:23:GLY:HA2	1:B:299:LYS:HZ2	1.49	0.77
1:B:103:TRP:HE3	1:B:103:TRP:H	1.33	0.77
1:B:525:GLU:OE2	1:B:551:TYR:HB3	1.85	0.77
1:B:586:GLU:O	1:B:622:ARG:CD	2.33	0.77
1:B:721:HIS:HD2	1:B:757:GLY:HA2	1.49	0.77
1:B:737:LEU:C	1:B:738:LEU:HD22	2.09	0.77
1:A:4:LEU:HG	1:A:436:GLU:HG2	1.67	0.77
1:A:245:ASP:CB	1:A:249:VAL:N	2.46	0.77
1:A:263:PRO:HB3	1:A:502:VAL:HG21	1.67	0.77
1:A:337:ASN:ND2	1:A:340:THR:OG1	2.18	0.77
1:A:361:TYR:CD2	1:A:410:VAL:HG21	2.19	0.77
1:A:421:TYR:HD1	1:A:422:GLU:H	1.29	0.77
1:A:524:THR:OG1	1:A:538:GLY:C	2.27	0.77
1:A:676:ARG:HG2	1:A:676:ARG:NH1	2.00	0.77
1:B:104:ARG:C	1:B:105:LYS:HZ3	1.92	0.77
1:B:128:PRO:CB	1:B:131:ILE:CG2	2.59	0.77
1:B:182:ASN:C	1:B:186:LEU:CD1	2.58	0.77
1:B:210:LEU:HD12	1:B:211:GLN:N	2.00	0.77
1:B:703:ALA:HA	1:B:708:ILE:CD1	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:712:SER:HG	1:B:715:HIS:CE1	2.02	0.77
1:A:278:THR:HG21	1:A:281:ILE:HG23	1.66	0.76
1:A:354:GLN:H	1:A:354:GLN:CD	1.92	0.76
1:A:436:GLU:OE1	1:A:439:LEU:HD22	1.85	0.76
1:A:584:SER:HB2	1:A:625:LYS:HE3	1.67	0.76
1:A:600:LYS:HB2	1:A:602:TYR:CE1	2.20	0.76
1:B:42:ARG:HH22	1:B:339:THR:H	1.33	0.76
1:B:358:VAL:HG21	1:B:438:THR:CA	2.15	0.76
1:B:592:ALA:HA	1:B:726:TRP:CH2	2.19	0.76
1:B:614:LEU:HD12	1:B:615:GLY:O	1.82	0.76
1:B:673:THR:O	1:B:677:LYS:NZ	2.17	0.76
1:B:701:GLN:OE1	1:B:701:GLN:HA	1.85	0.76
1:A:16:LEU:CD2	1:A:462:LEU:HB3	2.15	0.76
1:A:180:TYR:CD1	1:A:331:PHE:CB	2.65	0.76
1:A:288:LEU:O	1:A:290:LEU:N	2.18	0.76
1:A:370:ILE:HD12	1:A:371:THR:N	2.01	0.76
1:A:417:ARG:O	1:A:420:VAL:HB	1.85	0.76
1:A:605:GLU:C	1:A:607:LYS:HZ1	1.92	0.76
1:B:177:THR:O	1:B:447:ARG:HD3	1.85	0.76
1:B:404:ILE:HG21	1:B:737:LEU:HD21	0.96	0.76
1:B:501:VAL:O	1:B:502:VAL:HG12	1.83	0.76
1:A:30:SER:HB3	1:A:506:HIS:CE1	2.20	0.76
1:A:359:VAL:CA	1:A:438:THR:HA	2.08	0.76
1:A:365:GLN:CD	1:A:366:PHE:HA	2.11	0.76
1:A:422:GLU:HG3	1:B:116:ARG:CG	2.14	0.76
1:A:520:TRP:CB	1:A:542:THR:HG22	2.15	0.76
1:A:541:ARG:HD3	1:A:543:PRO:HD3	1.66	0.76
1:A:624:LEU:HD12	1:A:626:PRO:CG	2.15	0.76
1:B:411:SER:O	1:B:414:VAL:HG13	1.86	0.76
1:A:38:LEU:CD2	1:A:39:GLN:O	2.33	0.76
1:A:44:PHE:O	1:A:334:ARG:HB3	1.84	0.76
1:A:201:ALA:C	1:A:204:SER:H	1.93	0.76
1:A:602:TYR:HE2	1:A:702:MET:SD	2.09	0.76
1:B:221:ALA:CB	1:B:222:PRO:CD	2.61	0.76
1:B:361:TYR:CG	1:B:414:VAL:HG11	2.19	0.76
1:B:686:ILE:CG1	1:B:687:GLY:H	1.98	0.76
1:B:725:ILE:CD1	1:B:728:GLY:HA3	2.13	0.76
1:A:176:ARG:CZ	1:A:446:GLU:CB	2.63	0.76
1:B:491:MET:HE3	1:B:491:MET:CA	2.15	0.76
1:B:656:ASP:OD1	1:B:658:ALA:N	2.17	0.76
1:B:744:GLU:O	1:B:747:THR:OG1	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:ALA:O	1:A:237:PHE:N	2.19	0.76
1:A:594:SER:HA	1:A:603:THR:HA	1.67	0.76
1:A:732:LEU:O	1:A:732:LEU:HG	1.86	0.76
1:B:80:LEU:CG	1:B:84:GLU:HG3	2.14	0.76
1:B:145:LEU:HD13	1:B:146:PHE:CE1	2.21	0.76
1:B:259:ARG:CG	1:B:269:LEU:HD22	2.10	0.76
1:B:408:PHE:CB	1:B:632:ILE:CD1	2.64	0.76
1:B:505:GLU:C	1:B:517:TYR:OH	2.27	0.76
1:A:45:SER:CB	1:A:332:LYS:HA	2.14	0.76
1:A:472:GLU:HB3	1:A:475:ALA:CB	2.11	0.76
1:B:501:VAL:HG22	1:B:520:TRP:NE1	1.99	0.76
1:B:506:HIS:CA	1:B:507:GLN:HB3	2.14	0.76
1:B:702:MET:SD	1:B:714:LEU:CB	2.73	0.76
1:A:24:GLU:HG3	1:A:26:LYS:HB3	1.66	0.76
1:A:35:GLN:C	1:A:502:VAL:HG11	2.10	0.76
1:A:50:SER:HA	1:A:564:LYS:NZ	2.01	0.76
1:A:135:LEU:HD12	1:A:151:THR:CG2	2.15	0.76
1:A:234:THR:O	1:A:237:PHE:CA	2.33	0.76
1:A:346:THR:CB	1:A:358:VAL:C	2.58	0.76
1:A:354:GLN:OE1	1:A:354:GLN:N	2.16	0.76
1:B:144:GLU:O	1:B:147:HIS:HB3	1.85	0.76
1:B:249:VAL:CG2	1:B:318:ILE:HG22	2.12	0.76
1:B:673:THR:O	1:B:677:LYS:HG2	1.85	0.76
1:A:31:VAL:H	1:A:506:HIS:CE1	2.03	0.76
1:A:52:LEU:C	1:A:53:LEU:HD23	2.11	0.76
1:A:230:ALA:HA	1:A:233:ALA:HB3	1.66	0.76
1:A:241:ARG:HD3	1:A:241:ARG:C	2.11	0.76
1:A:410:VAL:O	1:A:412:ALA:N	2.19	0.76
1:A:740:ARG:HH11	1:A:740:ARG:HG3	1.51	0.76
1:B:44:PHE:CE1	1:B:333:LEU:HA	2.21	0.76
1:B:86:VAL:CG2	1:B:191:ARG:HG3	2.15	0.76
1:B:94:GLN:O	1:B:96:THR:OG1	2.03	0.76
1:B:400:THR:HG21	1:B:686:ILE:HD13	1.67	0.76
1:B:534:ALA:N	1:B:535:ILE:CA	2.48	0.76
1:A:18:GLN:HG2	1:A:491:MET:CE	2.15	0.76
1:A:126:VAL:C	1:A:166:PRO:HB3	2.10	0.76
1:B:44:PHE:CE2	1:B:324:ALA:HB2	2.21	0.76
1:B:425:SER:HB3	1:B:429:THR:CG2	2.15	0.76
1:B:618:ARG:N	1:B:619:GLU:HA	2.00	0.76
1:B:647:LEU:HD23	1:B:663:ILE:CB	2.14	0.76
1:B:673:THR:C	1:B:677:LYS:HZ2	1.94	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:735:MET:HE3	1:B:737:LEU:HD11	1.67	0.76
1:A:21:ALA:HA	1:A:487:TYR:OH	1.86	0.75
1:A:60:ASN:C	1:A:156:HIS:CG	2.57	0.75
1:A:86:VAL:CB	1:A:191:ARG:HD3	2.08	0.75
1:A:337:ASN:HD21	1:A:496:ALA:CB	1.98	0.75
1:A:555:ILE:HG12	1:A:556:GLN:N	1.99	0.75
1:B:46:ALA:N	1:B:179:THR:O	2.20	0.75
1:B:51:GLU:H	1:B:564:LYS:HE3	1.50	0.75
1:B:628:VAL:O	1:B:631:ALA:CA	2.34	0.75
1:B:729:LEU:HA	1:B:732:LEU:CB	2.15	0.75
1:B:733:GLN:CG	1:B:734:MET:HE2	2.15	0.75
1:A:108:ALA:C	1:A:112:GLY:HA3	2.10	0.75
1:A:189:CYS:HB3	1:A:323:GLU:HG3	1.66	0.75
1:A:500:GLU:HG2	1:A:522:VAL:H	1.50	0.75
1:A:583:ALA:HA	1:A:625:LYS:HZ1	1.52	0.75
1:A:607:LYS:N	1:A:610:GLU:OE1	2.19	0.75
1:B:190:VAL:CG1	1:B:323:GLU:HG3	2.15	0.75
1:B:369:GLU:O	1:B:370:ILE:HG12	1.86	0.75
1:B:378:LEU:HD12	1:B:379:ALA:N	2.00	0.75
1:B:424:VAL:HG23	1:B:430:VAL:CG1	2.14	0.75
1:B:481:ARG:O	1:B:485:ASN:ND2	2.19	0.75
1:B:715:HIS:HB3	1:B:719:ASN:ND2	2.01	0.75
1:A:377:LYS:HE3	1:A:379:ALA:C	2.10	0.75
1:A:591:ASP:N	1:A:606:VAL:HG12	2.00	0.75
1:B:80:LEU:HD23	1:B:80:LEU:N	2.01	0.75
1:B:127:PRO:C	1:B:131:ILE:H	1.94	0.75
1:B:363:ASP:H	1:B:441:PHE:CB	1.99	0.75
1:B:523:ARG:HB2	1:B:523:ARG:CZ	2.15	0.75
1:B:581:HIS:HD2	1:B:582:GLU:H	1.30	0.75
1:A:259:ARG:CD	1:A:269:LEU:HD13	2.16	0.75
1:A:343:ILE:N	1:A:559:GLU:HG2	2.00	0.75
1:A:479:LEU:N	1:A:479:LEU:HD12	2.01	0.75
1:B:35:GLN:HB3	1:B:502:VAL:CB	2.12	0.75
1:B:259:ARG:CA	1:B:269:LEU:HD11	2.16	0.75
1:A:338:GLU:C	1:A:341:SER:H	1.93	0.75
1:A:360:VAL:HG22	1:A:438:THR:HG23	1.69	0.75
1:A:366:PHE:HZ	1:A:632:ILE:CG1	1.97	0.75
1:A:410:VAL:CG1	1:A:411:SER:N	2.48	0.75
1:A:535:ILE:HG13	1:A:540:ILE:HD13	1.68	0.75
1:A:623:ILE:HD12	1:A:624:LEU:H	1.51	0.75
1:A:630:HIS:CB	1:A:737:LEU:CD2	2.58	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:666:ARG:CA	1:A:669:GLN:OE1	2.34	0.75
1:A:716:VAL:O	1:A:720:ARG:HB2	1.85	0.75
1:B:275:LEU:HD23	1:B:278:THR:OG1	1.86	0.75
1:B:309:SER:HB2	1:B:315:SER:HA	1.67	0.75
1:B:371:THR:N	1:B:623:ILE:HG13	2.01	0.75
1:B:373:PHE:CE2	1:B:624:LEU:HB2	2.22	0.75
1:B:491:MET:O	1:B:495:VAL:HG23	1.86	0.75
1:B:501:VAL:O	1:B:502:VAL:CG1	2.34	0.75
1:B:540:ILE:HD11	1:B:552:ASN:OD1	1.85	0.75
1:B:607:LYS:HB3	1:B:608:GLU:CB	2.17	0.75
1:B:674:LEU:HD13	1:B:749:VAL:HG21	1.67	0.75
1:A:59:GLY:CA	1:A:155:CYS:HB3	2.15	0.75
1:A:283:GLN:CA	1:A:286:SER:HB3	2.13	0.75
1:A:307:ILE:CD1	1:A:308:PHE:HD1	1.99	0.75
1:A:352:MET:HB3	1:A:429:THR:OG1	1.86	0.75
1:A:429:THR:HG23	1:A:430:VAL:HG13	1.68	0.75
1:B:14:ARG:O	1:B:17:THR:OG1	2.02	0.75
1:B:245:ASP:OD1	1:B:247:ASN:N	2.19	0.75
1:B:426:GLN:CG	1:B:427:ARG:HA	2.16	0.75
1:B:462:LEU:CD1	1:B:463:ARG:HG2	2.17	0.75
1:A:64:VAL:HG22	1:A:200:THR:OG1	1.85	0.75
1:A:170:TYR:CD1	1:A:576:HIS:CE1	2.74	0.75
1:A:344:GLY:HA3	1:A:361:TYR:N	1.99	0.75
1:A:359:VAL:HG13	1:A:439:LEU:N	2.01	0.75
1:B:292:ILE:O	1:B:295:GLN:HG2	1.86	0.75
1:B:366:PHE:HB3	1:B:628:VAL:CG1	2.17	0.75
1:B:504:SER:O	1:B:516:LEU:HA	1.87	0.75
1:B:607:LYS:CB	1:B:608:GLU:HB3	2.14	0.75
1:A:194:ASP:OD2	1:A:198:MET:HE2	1.86	0.75
1:A:271:PRO:HB3	1:A:276:ARG:HH12	1.50	0.75
1:A:341:SER:O	1:A:559:GLU:HG3	1.86	0.75
1:A:387:LEU:HD11	1:A:577:ILE:CG2	2.17	0.75
1:A:671:ALA:HB1	1:A:753:SER:C	2.11	0.75
1:B:254:LEU:CD2	1:B:297:MET:CB	2.26	0.75
1:B:309:SER:OG	1:B:315:SER:HA	1.87	0.75
1:B:696:SER:O	1:B:699:VAL:HB	1.85	0.75
1:A:81:SER:O	1:A:84:GLU:N	2.20	0.75
1:A:595:VAL:O	1:A:602:TYR:HB2	1.87	0.75
1:B:38:LEU:HD21	1:B:501:VAL:C	2.12	0.75
1:B:163:PHE:HB3	1:B:164:ILE:CB	2.16	0.75
1:B:289:ALA:HA	1:B:292:ILE:CD1	2.11	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:29:LEU:N	1:A:29:LEU:HD22	2.02	0.74
1:A:42:ARG:O	1:A:289:ALA:C	2.29	0.74
1:A:86:VAL:HG21	1:A:191:ARG:HG2	1.67	0.74
1:A:108:ALA:HA	1:A:112:GLY:HA3	1.66	0.74
1:A:148:HIS:NE2	1:A:578:TRP:CH2	2.55	0.74
1:A:607:LYS:N	1:A:607:LYS:HE2	2.02	0.74
1:A:678:ILE:CG2	1:A:725:ILE:HD13	2.16	0.74
1:B:36:LEU:CB	1:B:37:PRO:HD2	2.16	0.74
1:B:42:ARG:CD	1:B:336:ILE:HA	2.16	0.74
1:B:43:THR:HG21	1:B:287:ASN:HB3	1.69	0.74
1:B:228:HIS:HD2	1:B:231:ASN:HD22	1.32	0.74
1:B:342:TYR:CD2	1:B:559:GLU:HG2	2.16	0.74
1:B:437:MET:HE2	1:B:550:ALA:HA	1.69	0.74
1:B:520:TRP:CE3	1:B:548:ALA:HB1	2.21	0.74
1:B:723:ILE:HG13	1:B:723:ILE:O	1.87	0.74
1:A:5:LYS:N	1:A:5:LYS:HD2	2.02	0.74
1:A:12:SER:C	1:A:14:ARG:H	1.94	0.74
1:A:82:VAL:HA	1:A:85:LEU:HD21	1.68	0.74
1:A:102:ILE:HD13	1:A:138:LEU:HD23	1.67	0.74
1:A:523:ARG:CZ	1:A:525:GLU:HA	2.17	0.74
1:A:598:ARG:CD	1:A:598:ARG:H	1.96	0.74
1:A:661:LEU:H	1:A:661:LEU:CD2	1.99	0.74
1:B:43:THR:CG2	1:B:289:ALA:H	2.00	0.74
1:B:260:LEU:HD11	1:B:261:TRP:NE1	2.01	0.74
1:B:366:PHE:HB3	1:B:628:VAL:HG11	1.68	0.74
1:A:82:VAL:N	1:A:85:LEU:CD2	2.50	0.74
1:A:127:PRO:N	1:A:166:PRO:HB3	2.01	0.74
1:A:297:MET:HE3	1:A:297:MET:CA	2.17	0.74
1:A:467:VAL:O	1:A:469:GLU:HG2	1.87	0.74
1:A:498:ASN:HD21	1:A:500:GLU:CD	1.95	0.74
1:A:522:VAL:HG23	1:A:523:ARG:N	2.01	0.74
1:A:718:ILE:C	1:A:722:ARG:H	1.95	0.74
1:A:732:LEU:C	1:A:738:LEU:HD21	2.12	0.74
1:B:255:THR:HG22	1:B:303:ARG:O	1.88	0.74
1:B:276:ARG:HG2	1:B:276:ARG:NH1	2.01	0.74
1:B:535:ILE:HG12	1:B:540:ILE:N	2.01	0.74
1:B:570:ASN:ND2	1:B:571:HIS:CD2	2.51	0.74
1:B:666:ARG:O	1:B:669:GLN:HG2	1.86	0.74
1:A:624:LEU:CD1	1:A:626:PRO:HG3	2.17	0.74
1:B:9:LEU:H	1:B:9:LEU:CD1	1.96	0.74
1:B:125:LYS:N	1:B:165:LEU:CD1	2.47	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:226:SER:HA	1:B:229:LEU:HB2	0.78	0.74
1:B:363:ASP:H	1:B:441:PHE:CA	2.00	0.74
1:B:725:ILE:HD13	1:B:728:GLY:CA	2.12	0.74
1:A:115:ASN:OD1	1:A:116:ARG:N	2.20	0.74
1:A:128:PRO:CD	1:A:129:THR:HB	2.17	0.74
1:A:144:GLU:HB2	1:A:147:HIS:HB2	0.93	0.74
1:A:303:ARG:HD3	1:A:304:ALA:O	1.86	0.74
1:A:444:VAL:C	1:A:446:GLU:N	2.41	0.74
1:A:688:ALA:O	1:A:691:VAL:HG23	1.86	0.74
1:A:716:VAL:CA	1:A:720:ARG:HB2	2.18	0.74
1:B:36:LEU:HB2	1:B:37:PRO:HD2	1.68	0.74
1:B:69:LEU:HG	1:B:172:TYR:CD2	2.22	0.74
1:B:236:ALA:HA	1:B:239:ARG:HG3	1.69	0.74
1:B:501:VAL:C	1:B:502:VAL:HG13	2.12	0.74
1:B:506:HIS:CB	1:B:517:TYR:CZ	2.28	0.74
1:B:522:VAL:HG11	1:B:552:ASN:ND2	2.02	0.74
1:B:673:THR:HG22	1:B:677:LYS:HZ3	1.50	0.74
1:A:160:PRO:HB2	1:A:208:LYS:HD3	1.68	0.74
1:A:169:ALA:O	1:A:575:ILE:HG12	1.87	0.74
1:A:422:GLU:CG	1:B:116:ARG:CG	2.65	0.74
1:A:542:THR:HG23	1:A:544:GLU:HB3	1.67	0.74
1:A:752:ASP:CA	1:A:754:ASN:O	2.36	0.74
1:B:5:LYS:CA	1:B:435:ALA:HB3	2.17	0.74
1:B:38:LEU:HD22	1:B:38:LEU:H	1.53	0.74
1:B:132:LEU:HD13	1:B:151:THR:HA	1.70	0.74
1:B:317:ILE:HD13	1:B:320:TRP:CZ2	2.23	0.74
1:B:522:VAL:CG2	1:B:540:ILE:HD12	2.17	0.74
1:B:602:TYR:HB3	1:B:701:GLN:CB	2.17	0.74
1:B:733:GLN:HG3	1:B:734:MET:CE	2.13	0.74
1:A:24:GLU:HA	1:A:26:LYS:CE	2.17	0.74
1:A:190:VAL:HG11	1:A:249:VAL:CG2	2.17	0.74
1:A:444:VAL:HG23	1:A:445:VAL:H	1.52	0.74
1:A:661:LEU:HA	1:A:664:ASP:OD2	1.87	0.74
1:A:685:GLY:HA2	1:A:688:ALA:H	1.51	0.74
1:B:83:ASP:OD2	1:B:191:ARG:HD2	1.87	0.74
1:B:92:TYR:CD2	1:B:146:PHE:CD2	2.76	0.74
1:B:125:LYS:HG3	1:B:128:PRO:HG2	1.69	0.74
1:B:628:VAL:O	1:B:631:ALA:CB	2.35	0.74
1:B:743:ALA:O	1:B:747:THR:HG23	1.88	0.74
1:A:22:ILE:HD11	1:A:295:GLN:CD	2.12	0.74
1:A:170:TYR:CE1	1:A:576:HIS:NE2	2.48	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:259:ARG:HB3	1:A:266:PRO:CB	2.17	0.74
1:A:345:GLN:CA	1:A:360:VAL:HG12	2.17	0.74
1:A:436:GLU:C	1:A:438:THR:H	1.96	0.74
1:A:503:VAL:HB	1:A:519:VAL:N	2.03	0.74
1:A:519:VAL:HG22	1:A:541:ARG:C	2.13	0.74
1:A:636:TRP:CH2	1:A:640:PHE:CZ	2.66	0.74
1:A:651:ARG:HG2	1:A:660:LYS:HB3	1.70	0.74
1:B:38:LEU:CD1	1:B:502:VAL:HA	2.18	0.74
1:B:115:ASN:OD1	1:B:116:ARG:N	2.21	0.74
1:B:196:ARG:HG3	1:B:196:ARG:NH1	2.02	0.74
1:B:214:PHE:CA	1:B:220:LEU:HD22	2.11	0.74
1:B:257:LEU:HD23	1:B:294:TYR:CB	2.16	0.74
1:B:361:TYR:CB	1:B:414:VAL:HG11	2.17	0.74
1:B:361:TYR:HB3	1:B:414:VAL:HG21	1.68	0.74
1:B:597:ILE:HD13	1:B:713:ASP:OD2	1.88	0.74
1:B:691:VAL:O	1:B:695:GLN:HB2	1.88	0.74
1:A:40:PHE:CD2	1:A:288:LEU:C	2.53	0.74
1:A:42:ARG:CG	1:A:336:ILE:CD1	2.56	0.74
1:A:44:PHE:CB	1:A:334:ARG:H	2.01	0.74
1:A:527:ARG:NH1	1:A:528:ILE:H	1.85	0.74
1:B:358:VAL:CG2	1:B:438:THR:HG22	2.17	0.74
1:B:614:LEU:HD12	1:B:615:GLY:C	2.13	0.74
1:A:101:GLU:HA	1:A:104:ARG:NE	2.02	0.74
1:A:160:PRO:HB3	1:A:208:LYS:HD3	1.67	0.74
1:A:305:GLU:O	1:A:307:ILE:HG13	1.88	0.74
1:A:345:GLN:HB3	1:A:556:GLN:NE2	2.02	0.74
1:B:14:ARG:NH1	1:B:17:THR:HG21	2.03	0.74
1:B:44:PHE:CZ	1:B:324:ALA:HB1	2.23	0.74
1:B:124:GLY:H	1:B:165:LEU:CD1	2.00	0.74
1:B:124:GLY:N	1:B:165:LEU:HD11	2.03	0.74
1:B:225:ILE:O	1:B:228:HIS:N	2.21	0.74
1:B:401:LEU:HA	1:B:404:ILE:CD1	2.17	0.74
1:A:38:LEU:C	1:A:501:VAL:HG11	2.13	0.73
1:A:198:MET:O	1:A:201:ALA:HB3	1.88	0.73
1:A:420:VAL:HG11	1:A:643:ASP:OD1	1.88	0.73
1:A:748:LYS:NZ	1:A:748:LYS:HA	2.02	0.73
1:B:628:VAL:HA	1:B:631:ALA:HB3	1.69	0.73
1:A:16:LEU:HD11	1:A:463:ARG:HA	1.68	0.73
1:A:34:LEU:HG	1:A:35:GLN:N	2.02	0.73
1:A:61:ILE:HB	1:A:156:HIS:CD2	2.21	0.73
1:A:87:ASN:HD21	1:A:191:ARG:CZ	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:LEU:HD22	1:A:199:LEU:HD12	1.69	0.73
1:A:205:VAL:CG2	1:A:239:ARG:NH2	2.51	0.73
1:A:346:THR:HG21	1:A:438:THR:HG1	1.52	0.73
1:A:388:ASP:OD2	1:A:389:VAL:HG12	1.89	0.73
1:A:526:LEU:N	1:A:526:LEU:HD23	2.03	0.73
1:B:22:ILE:HG13	1:B:517:TYR:HD1	1.53	0.73
1:B:24:GLU:HB2	1:B:506:HIS:NE2	2.02	0.73
1:B:29:LEU:N	1:B:29:LEU:HD23	2.03	0.73
1:B:408:PHE:CD1	1:B:413:PHE:CZ	2.73	0.73
1:B:715:HIS:C	1:B:720:ARG:HH21	1.95	0.73
1:A:99:ASN:OD1	1:A:100:PRO:HD2	1.88	0.73
1:A:233:ALA:O	1:A:236:ALA:N	2.20	0.73
1:A:327:GLU:HA	1:A:331:PHE:CZ	2.23	0.73
1:A:572:THR:O	1:A:573:THR:C	2.31	0.73
1:A:595:VAL:CG1	1:A:698:ILE:HD12	2.17	0.73
1:B:106:LEU:CD1	1:B:154:VAL:HG11	2.19	0.73
1:B:236:ALA:O	1:B:239:ARG:HB2	1.88	0.73
1:A:536:GLU:OE1	1:A:536:GLU:N	2.20	0.73
1:B:2:PHE:CZ	1:B:3:ASN:O	2.42	0.73
1:B:92:TYR:CE2	1:B:146:PHE:CG	2.77	0.73
1:B:220:LEU:O	1:B:224:LEU:HD11	1.88	0.73
1:B:424:VAL:CB	1:B:430:VAL:HG13	2.17	0.73
1:A:75:GLN:HE22	1:A:447:ARG:HH21	1.35	0.73
1:A:75:GLN:HE22	1:A:447:ARG:NH2	1.86	0.73
1:A:148:HIS:O	1:A:151:THR:OG1	2.02	0.73
1:A:221:ALA:HB1	1:A:225:ILE:N	2.02	0.73
1:A:442:PRO:CD	1:A:443:SER:N	2.47	0.73
1:A:568:LEU:N	1:A:568:LEU:HD12	2.04	0.73
1:A:632:ILE:HD13	1:A:632:ILE:N	2.04	0.73
1:A:690:ALA:O	1:A:693:LEU:CB	2.32	0.73
1:A:754:ASN:OD1	1:A:756:LEU:HB2	1.89	0.73
1:B:89:PHE:HE1	1:B:146:PHE:N	1.85	0.73
1:B:131:ILE:HD12	1:B:134:GLN:HB3	1.70	0.73
1:B:136:ARG:HD3	1:B:147:HIS:HD2	1.54	0.73
1:B:156:HIS:ND1	1:B:157:VAL:HG22	2.03	0.73
1:B:715:HIS:HA	1:B:719:ASN:CB	2.18	0.73
1:A:205:VAL:HG12	1:A:206:ASP:H	1.53	0.73
1:A:386:PHE:C	1:A:387:LEU:HG	2.14	0.73
1:A:476:SER:O	1:A:477:ASN:C	2.26	0.73
1:A:578:TRP:O	1:A:579:PRO:C	2.29	0.73
1:A:733:GLN:HA	1:A:733:GLN:HE21	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:33:ALA:O	1:B:35:GLN:NE2	2.21	0.73
1:B:58:LYS:HE2	1:B:58:LYS:N	2.02	0.73
1:B:308:PHE:HZ	1:B:318:ILE:H	1.35	0.73
1:B:485:ASN:OD1	1:B:486:TYR:HD1	1.70	0.73
1:A:510:ALA:HB1	1:A:511:ALA:HB2	1.69	0.73
1:A:544:GLU:HB3	1:A:545:PRO:CA	2.18	0.73
1:B:35:GLN:CG	1:B:502:VAL:HG23	2.18	0.73
1:B:36:LEU:HD12	1:B:36:LEU:N	2.03	0.73
1:B:156:HIS:HD2	1:B:158:LEU:HB3	1.52	0.73
1:B:233:ALA:HA	1:B:236:ALA:HB3	1.69	0.73
1:B:361:TYR:CD1	1:B:441:PHE:CD2	2.77	0.73
1:B:362:GLU:HG3	1:B:635:MET:HE2	1.68	0.73
1:B:451:LEU:HG	1:B:453:ARG:NE	2.02	0.73
1:B:522:VAL:HG21	1:B:540:ILE:HD12	1.70	0.73
1:B:523:ARG:HG3	1:B:538:GLY:C	2.13	0.73
1:B:540:ILE:HD13	1:B:551:TYR:HB2	1.70	0.73
1:B:590:GLU:HB2	1:B:607:LYS:CG	2.17	0.73
1:B:608:GLU:N	1:B:609:PHE:HB2	2.02	0.73
1:B:681:ILE:HG22	1:B:731:VAL:CB	2.17	0.73
1:A:181:PRO:HB2	1:A:484:PHE:CZ	2.23	0.73
1:A:245:ASP:O	1:A:249:VAL:N	2.22	0.73
1:A:274:ARG:HG2	1:A:274:ARG:NH1	2.03	0.73
1:A:532:TYR:OH	1:A:541:ARG:HD3	1.88	0.73
1:A:570:ASN:OD1	1:A:571:HIS:N	2.21	0.73
1:A:636:TRP:CD2	1:A:640:PHE:CE1	2.76	0.73
1:A:690:ALA:CA	1:A:693:LEU:HD22	2.19	0.73
1:B:103:TRP:HE1	1:B:231:ASN:CA	2.01	0.73
1:B:247:ASN:OD1	1:B:248:ALA:N	2.21	0.73
1:B:317:ILE:HG23	1:B:320:TRP:CD2	2.24	0.73
1:B:708:ILE:HD12	1:B:709:ASP:N	2.03	0.73
1:A:51:GLU:HA	1:A:174:VAL:HG11	1.70	0.73
1:A:60:ASN:OD1	1:A:156:HIS:ND1	2.21	0.73
1:A:343:ILE:H	1:A:559:GLU:HG2	1.53	0.73
1:B:24:GLU:C	1:B:25:LEU:HD13	2.13	0.73
1:B:102:ILE:HG22	1:B:138:LEU:CD1	2.19	0.73
1:B:309:SER:CB	1:B:315:SER:CA	2.67	0.73
1:B:317:ILE:HG23	1:B:320:TRP:CE3	2.23	0.73
1:B:525:GLU:H	1:B:525:GLU:CD	1.96	0.73
1:B:560:VAL:CG2	1:B:562:GLN:H	1.97	0.73
1:A:259:ARG:O	1:A:260:LEU:C	2.30	0.73
1:A:263:PRO:HG3	1:A:502:VAL:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:SER:C	1:A:275:LEU:HB2	2.14	0.73
1:A:666:ARG:O	1:A:667:ARG:C	2.30	0.73
1:A:694:ALA:HB2	1:A:726:TRP:CZ3	2.24	0.73
1:A:750:LEU:C	1:A:753:SER:OG	2.32	0.73
1:B:18:GLN:CG	1:B:487:TYR:OH	2.36	0.73
1:B:22:ILE:CG2	1:B:506:HIS:ND1	2.51	0.73
1:B:24:GLU:HA	1:B:25:LEU:HD13	1.70	0.73
1:B:101:GLU:OE1	1:B:101:GLU:N	2.21	0.73
1:B:182:ASN:HB3	1:B:484:PHE:CZ	2.23	0.73
1:B:523:ARG:HG3	1:B:538:GLY:O	1.89	0.73
1:B:610:GLU:CG	1:B:614:LEU:O	2.36	0.73
1:B:619:GLU:OE1	1:B:619:GLU:N	2.22	0.73
1:A:37:PRO:HB2	1:A:501:VAL:HG23	1.69	0.72
1:A:323:GLU:OE2	1:A:328:VAL:HG22	1.88	0.72
1:A:528:ILE:HD12	1:A:528:ILE:N	2.03	0.72
1:A:638:SER:O	1:A:641:VAL:CB	2.36	0.72
1:A:655:ARG:N	1:A:656:ASP:HB2	2.04	0.72
1:A:674:LEU:HA	1:A:677:LYS:HE2	1.71	0.72
1:B:226:SER:C	1:B:229:LEU:HB3	2.14	0.72
1:B:321:PHE:HZ	1:B:326:SER:CB	2.01	0.72
1:B:364:TRP:HE1	1:B:628:VAL:HG13	1.53	0.72
1:B:373:PHE:HD2	1:B:583:ALA:CB	1.72	0.72
1:B:519:VAL:C	1:B:520:TRP:CD1	2.67	0.72
1:B:592:ALA:HA	1:B:726:TRP:HZ2	1.54	0.72
1:B:597:ILE:CB	1:B:714:LEU:HA	2.19	0.72
1:B:720:ARG:O	1:B:724:ARG:CB	2.28	0.72
1:A:148:HIS:CE1	1:A:578:TRP:HH2	2.07	0.72
1:A:205:VAL:HG12	1:A:206:ASP:N	2.04	0.72
1:A:221:ALA:HB1	1:A:225:ILE:H	1.53	0.72
1:A:448:ASP:CB	1:A:455:PRO:HD3	2.16	0.72
1:A:623:ILE:CD1	1:A:624:LEU:H	2.02	0.72
1:B:9:LEU:HD11	1:B:544:GLU:OE1	1.89	0.72
1:B:106:LEU:O	1:B:109:TYR:N	2.22	0.72
1:B:642:GLU:HA	1:B:645:ARG:HH11	0.77	0.72
1:B:695:GLN:HE22	1:B:715:HIS:CE1	2.07	0.72
1:B:702:MET:HA	1:B:702:MET:CE	2.18	0.72
1:A:4:LEU:HB2	1:A:9:LEU:HA	1.70	0.72
1:A:35:GLN:O	1:A:502:VAL:HG11	1.88	0.72
1:A:257:LEU:HD22	1:A:261:TRP:CH2	2.24	0.72
1:A:278:THR:O	1:A:279:ASN:ND2	2.22	0.72
1:A:347:SER:CA	1:A:554:PRO:HB3	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:LYS:HE2	1:A:705:ARG:NH1	2.04	0.72
1:A:639:TRP:O	1:A:640:PHE:C	2.25	0.72
1:B:38:LEU:HD13	1:B:38:LEU:N	2.02	0.72
1:B:235:THR:HB	1:B:239:ARG:NH1	2.03	0.72
1:B:401:LEU:C	1:B:404:ILE:HB	2.14	0.72
1:B:497:HIS:HD2	1:B:549:ILE:CD1	1.98	0.72
1:A:377:LYS:HE3	1:A:379:ALA:N	2.04	0.72
1:A:408:PHE:CE1	1:A:636:TRP:NE1	2.43	0.72
1:A:493:TYR:CE1	1:A:549:ILE:HD12	2.22	0.72
1:A:541:ARG:HD2	1:A:542:THR:CA	2.18	0.72
1:B:444:VAL:O	1:B:486:TYR:OH	2.01	0.72
1:B:583:ALA:HB3	1:B:584:SER:C	2.14	0.72
1:B:724:ARG:HA	1:B:724:ARG:NE	2.04	0.72
1:A:2:PHE:CD2	1:A:459:ILE:CG2	2.50	0.72
1:A:61:ILE:HG23	1:A:62:ASP:N	2.05	0.72
1:A:404:ILE:HD13	1:A:681:ILE:HG23	1.66	0.72
1:A:444:VAL:CG2	1:A:445:VAL:N	2.45	0.72
1:A:718:ILE:C	1:A:721:HIS:H	1.95	0.72
1:B:102:ILE:C	1:B:102:ILE:HD12	2.14	0.72
1:B:350:ASP:HB2	1:B:427:ARG:C	2.13	0.72
1:B:371:THR:C	1:B:623:ILE:CG1	2.50	0.72
1:B:404:ILE:O	1:B:407:THR:HG22	1.90	0.72
1:B:607:LYS:CB	1:B:608:GLU:CB	2.68	0.72
1:B:668:MET:HA	1:B:671:ALA:HB3	1.70	0.72
1:A:3:ASN:ND2	1:A:439:LEU:HD21	2.05	0.72
1:A:144:GLU:O	1:A:146:PHE:N	2.22	0.72
1:A:237:PHE:CA	1:A:240:SER:HB3	2.18	0.72
1:A:439:LEU:H	1:A:439:LEU:CD2	2.03	0.72
1:A:546:LEU:HD12	1:A:546:LEU:C	2.14	0.72
1:B:6:VAL:CG2	1:B:530:VAL:HA	2.19	0.72
1:B:62:ASP:CG	1:B:63:PRO:HD2	2.15	0.72
1:B:67:ALA:CA	1:B:70:PHE:HB2	2.19	0.72
1:B:156:HIS:CE1	1:B:210:LEU:HD21	2.23	0.72
1:B:156:HIS:HD2	1:B:158:LEU:CB	2.03	0.72
1:B:341:SER:O	1:B:559:GLU:HB2	1.89	0.72
1:B:453:ARG:N	1:B:453:ARG:HD2	2.03	0.72
1:B:501:VAL:HG13	1:B:520:TRP:NE1	2.03	0.72
1:B:539:SER:C	1:B:541:ARG:HG2	2.07	0.72
1:A:278:THR:HG23	1:A:281:ILE:HG12	1.70	0.72
1:A:448:ASP:C	1:A:455:PRO:HD3	2.15	0.72
1:A:630:HIS:N	1:A:737:LEU:HG	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:713:ASP:O	1:A:714:LEU:CD2	2.38	0.72
1:B:45:SER:HA	1:B:181:PRO:CD	2.18	0.72
1:B:86:VAL:HB	1:B:191:ARG:CG	2.19	0.72
1:B:284:LEU:HD23	1:B:284:LEU:C	2.14	0.72
1:B:519:VAL:C	1:B:520:TRP:HD1	1.98	0.72
1:B:694:ALA:HB1	1:B:726:TRP:NE1	2.04	0.72
1:A:119:LYS:C	1:A:219:ALA:HA	2.15	0.72
1:A:365:GLN:NE2	1:A:366:PHE:HA	2.05	0.72
1:A:413:PHE:CZ	1:A:639:TRP:CZ2	2.57	0.72
1:A:476:SER:C	1:A:479:LEU:H	1.98	0.72
1:A:636:TRP:CZ2	1:A:640:PHE:HE2	1.78	0.72
1:A:653:THR:HA	1:A:655:ARG:HG3	1.58	0.72
1:A:663:ILE:HD12	1:A:664:ASP:N	2.04	0.72
1:B:183:PHE:CZ	1:B:301:ARG:NH1	2.51	0.72
1:B:215:LYS:O	1:B:215:LYS:NZ	2.22	0.72
1:B:341:SER:C	1:B:342:TYR:CG	2.63	0.72
1:B:371:THR:CA	1:B:623:ILE:CG1	2.68	0.72
1:B:623:ILE:HD13	1:B:624:LEU:C	2.15	0.72
1:B:628:VAL:C	1:B:631:ALA:H	1.97	0.72
1:A:24:GLU:CA	1:A:26:LYS:HB2	2.20	0.72
1:A:34:LEU:HD23	1:A:504:SER:CB	2.20	0.72
1:A:196:ARG:O	1:A:197:ARG:NH2	2.22	0.72
1:A:281:ILE:O	1:A:282:ASP:C	2.26	0.72
1:A:523:ARG:NE	1:A:524:THR:C	2.48	0.72
1:A:547:GLU:HA	1:A:550:ALA:HB3	1.71	0.72
1:A:669:GLN:HG2	1:A:670:ASN:N	2.05	0.72
1:A:685:GLY:C	1:A:687:GLY:N	2.43	0.72
1:B:14:ARG:CZ	1:B:17:THR:HG21	2.20	0.72
1:B:129:THR:HA	1:B:151:THR:HG22	1.72	0.72
1:B:165:LEU:C	1:B:165:LEU:HD22	2.14	0.72
1:B:308:PHE:HZ	1:B:318:ILE:N	1.87	0.72
1:A:250:VAL:C	1:A:253:VAL:HG12	2.14	0.72
1:A:361:TYR:CZ	1:A:414:VAL:HG21	2.25	0.72
1:A:363:ASP:O	1:A:364:TRP:CD2	2.42	0.72
1:A:606:VAL:HG22	1:A:610:GLU:OE1	1.90	0.72
1:B:46:ALA:CB	1:B:179:THR:HA	2.16	0.72
1:B:126:VAL:N	1:B:128:PRO:HD3	2.05	0.72
1:B:129:THR:HA	1:B:151:THR:CG2	2.20	0.72
1:B:195:LEU:HD23	1:B:199:LEU:HD11	1.72	0.72
1:B:268:GLU:O	1:B:269:LEU:HD22	1.90	0.72
1:B:361:TYR:HD1	1:B:441:PHE:CD2	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:533:ASN:HB2	1:B:535:ILE:CD1	2.20	0.72
1:B:604:ALA:CB	1:B:698:ILE:HG23	2.19	0.72
1:B:663:ILE:HD12	1:B:663:ILE:C	2.15	0.72
1:A:182:ASN:ND2	1:A:184:TYR:HB2	2.05	0.71
1:A:271:PRO:CB	1:A:276:ARG:NH1	2.52	0.71
1:A:294:TYR:HE1	1:A:515:SER:CA	2.02	0.71
1:A:630:HIS:HA	1:A:737:LEU:HD12	1.71	0.71
1:B:118:ILE:N	1:B:222:PRO:HG3	2.00	0.71
1:B:345:GLN:HB3	1:B:554:PRO:CA	2.18	0.71
1:B:349:ILE:CD1	1:B:353:GLY:HA3	2.15	0.71
1:B:455:PRO:O	1:B:459:ILE:HG13	1.89	0.71
1:B:585:THR:N	1:B:622:ARG:HG3	2.05	0.71
1:B:597:ILE:CD1	1:B:713:ASP:O	2.37	0.71
1:B:715:HIS:HA	1:B:719:ASN:CG	2.15	0.71
1:A:108:ALA:O	1:A:112:GLY:CA	2.38	0.71
1:A:363:ASP:O	1:A:364:TRP:CG	2.42	0.71
1:A:377:LYS:HE3	1:A:379:ALA:CA	2.19	0.71
1:B:38:LEU:HD22	1:B:38:LEU:N	2.01	0.71
1:B:69:LEU:N	1:B:69:LEU:HD22	2.05	0.71
1:B:72:GLN:CG	1:B:174:VAL:HG12	2.18	0.71
1:B:309:SER:CB	1:B:315:SER:OG	2.37	0.71
1:B:407:THR:HG23	1:B:408:PHE:CG	2.18	0.71
1:B:606:VAL:CG2	1:B:693:LEU:HD21	2.20	0.71
1:B:623:ILE:HD12	1:B:625:LYS:CA	2.20	0.71
1:B:703:ALA:C	1:B:708:ILE:HD11	2.16	0.71
1:B:706:GLY:O	1:B:709:ASP:HB3	1.90	0.71
1:A:36:LEU:HG	1:A:263:PRO:O	1.90	0.71
1:A:43:THR:OG1	1:A:332:LYS:HE2	1.89	0.71
1:A:61:ILE:HG21	1:A:156:HIS:CD2	2.18	0.71
1:A:86:VAL:CG2	1:A:191:ARG:HG2	2.19	0.71
1:A:348:ALA:O	1:A:349:ILE:C	2.32	0.71
1:B:13:ALA:HB3	1:B:16:LEU:CD2	2.20	0.71
1:B:38:LEU:HD21	1:B:501:VAL:H	1.51	0.71
1:B:53:LEU:HD23	1:B:53:LEU:C	2.15	0.71
1:B:100:PRO:O	1:B:104:ARG:N	2.23	0.71
1:B:298:VAL:C	1:B:302:GLY:H	1.99	0.71
1:B:384:GLN:HE22	1:B:576:HIS:CA	2.02	0.71
1:B:501:VAL:CA	1:B:519:VAL:O	2.38	0.71
1:A:2:PHE:CZ	1:A:486:TYR:CZ	2.73	0.71
1:A:21:ALA:O	1:A:299:LYS:HG2	1.90	0.71
1:A:344:GLY:C	1:A:360:VAL:CB	2.41	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:TYR:HE1	1:A:543:PRO:HD2	1.54	0.71
1:B:68:ARG:O	1:B:71:PHE:HB3	1.88	0.71
1:B:371:THR:H	1:B:623:ILE:HG13	1.54	0.71
1:B:376:VAL:CB	1:B:386:PHE:H	2.02	0.71
1:B:510:ALA:HB3	1:B:511:ALA:CA	2.20	0.71
1:B:522:VAL:O	1:B:540:ILE:N	2.19	0.71
1:B:535:ILE:HD11	1:B:540:ILE:O	1.89	0.71
1:B:596:THR:CG2	1:B:601:ARG:CZ	2.69	0.71
1:A:4:LEU:HD21	1:A:17:THR:HG21	1.72	0.71
1:A:35:GLN:CB	1:A:263:PRO:CB	2.68	0.71
1:A:476:SER:O	1:A:478:ASP:C	2.34	0.71
1:B:23:GLY:O	1:B:25:LEU:CD1	2.39	0.71
1:B:45:SER:HB2	1:B:181:PRO:CD	2.14	0.71
1:B:302:GLY:CA	1:B:303:ARG:HH12	1.99	0.71
1:B:344:GLY:HA2	1:B:555:ILE:O	1.90	0.71
1:B:358:VAL:HG21	1:B:438:THR:HB	1.71	0.71
1:B:377:LYS:CA	1:B:385:ARG:HD3	2.21	0.71
1:B:530:VAL:HB	1:B:551:TYR:CE1	2.25	0.71
1:B:545:PRO:O	1:B:548:ALA:N	2.23	0.71
1:B:650:ALA:HA	1:B:653:THR:OG1	1.91	0.71
1:A:176:ARG:NH1	1:A:446:GLU:CG	2.53	0.71
1:A:303:ARG:NH1	1:A:303:ARG:HB2	2.05	0.71
1:A:333:LEU:C	1:A:333:LEU:HD13	2.15	0.71
1:A:502:VAL:H	1:A:518:LEU:HD13	1.55	0.71
1:A:530:VAL:HG21	1:A:551:TYR:CE2	2.25	0.71
1:A:553:LYS:HA	1:A:553:LYS:HE3	1.71	0.71
1:A:716:VAL:C	1:A:720:ARG:CB	2.61	0.71
1:B:164:ILE:HG23	1:B:165:LEU:HD12	1.71	0.71
1:B:451:LEU:C	1:B:453:ARG:HD2	2.15	0.71
1:B:522:VAL:HB	1:B:540:ILE:CD1	2.19	0.71
1:B:533:ASN:HD22	1:B:551:TYR:HE2	1.38	0.71
1:B:583:ALA:CA	1:B:624:LEU:CB	2.61	0.71
1:B:585:THR:H	1:B:622:ARG:HG3	1.55	0.71
1:B:704:GLY:N	1:B:708:ILE:HD11	2.05	0.71
1:A:24:GLU:HG3	1:A:26:LYS:HG2	1.72	0.71
1:A:213:THR:HG1	1:A:215:LYS:CB	2.00	0.71
1:A:250:VAL:C	1:A:252:SER:N	2.49	0.71
1:A:492:HIS:O	1:A:495:VAL:HB	1.90	0.71
1:A:505:GLU:OE2	1:A:507:GLN:HA	1.91	0.71
1:A:654:SER:N	1:A:655:ARG:HB2	2.05	0.71
1:A:693:LEU:HB3	1:A:726:TRP:HH2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:PHE:CE2	1:B:333:LEU:HD22	2.25	0.71
1:B:245:ASP:CB	1:B:248:ALA:HB3	2.17	0.71
1:B:259:ARG:O	1:B:269:LEU:HD11	1.91	0.71
1:B:341:SER:O	1:B:342:TYR:CB	2.36	0.71
1:B:342:TYR:HB3	1:B:559:GLU:CB	2.21	0.71
1:B:358:VAL:HG23	1:B:438:THR:HG22	1.72	0.71
1:B:364:TRP:CB	1:B:410:VAL:HG11	2.20	0.71
1:B:607:LYS:H	1:B:609:PHE:CB	2.04	0.71
1:B:666:ARG:HG3	1:B:669:GLN:HE21	1.54	0.71
1:A:42:ARG:HH11	1:A:336:ILE:CD1	1.91	0.71
1:A:82:VAL:N	1:A:85:LEU:HD21	2.06	0.71
1:A:336:ILE:HD13	1:A:336:ILE:N	2.06	0.71
1:A:676:ARG:HA	1:A:679:GLU:CG	2.21	0.71
1:B:51:GLU:CD	1:B:565:VAL:H	1.99	0.71
1:B:339:THR:OG1	1:B:496:ALA:CB	2.38	0.71
1:B:404:ILE:HG21	1:B:737:LEU:CG	2.18	0.71
1:B:596:THR:HG21	1:B:601:ARG:HD2	1.72	0.71
1:A:18:GLN:OE1	1:A:295:GLN:NE2	2.23	0.71
1:A:81:SER:OG	1:A:82:VAL:N	2.23	0.71
1:A:144:GLU:O	1:A:145:LEU:HD12	1.89	0.71
1:A:187:VAL:HG12	1:A:246:ALA:C	2.12	0.71
1:A:223:ALA:O	1:A:226:SER:N	2.23	0.71
1:A:259:ARG:HD2	1:A:266:PRO:HA	1.71	0.71
1:A:430:VAL:HG12	1:A:529:PRO:CB	2.16	0.71
1:A:448:ASP:CG	1:A:455:PRO:HG3	2.16	0.71
1:A:492:HIS:CA	1:A:495:VAL:HG23	2.20	0.71
1:A:527:ARG:HH12	1:A:528:ILE:CD1	2.02	0.71
1:A:663:ILE:HD12	1:A:663:ILE:C	2.15	0.71
1:A:676:ARG:HA	1:A:679:GLU:CD	2.16	0.71
1:B:103:TRP:CE2	1:B:230:ALA:HB3	2.26	0.71
1:B:332:LYS:HD2	1:B:334:ARG:NH2	2.04	0.71
1:B:373:PHE:O	1:B:621:VAL:HA	1.91	0.71
1:B:661:LEU:HD23	1:B:661:LEU:C	2.16	0.71
1:B:677:LYS:O	1:B:680:MET:HG3	1.90	0.71
1:A:359:VAL:HG21	1:A:639:TRP:CZ2	2.26	0.71
1:A:503:VAL:HB	1:A:519:VAL:H	1.54	0.71
1:A:587:PHE:HE2	1:A:621:VAL:CA	2.04	0.71
1:A:602:TYR:CD2	1:A:702:MET:HE1	2.26	0.71
1:A:733:GLN:HA	1:A:733:GLN:NE2	2.04	0.71
1:B:575:ILE:HG22	1:B:576:HIS:HB2	1.73	0.71
1:A:92:TYR:OH	1:A:150:THR:HG21	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:591:ASP:H	1:A:606:VAL:CG1	1.99	0.70
1:A:652:ARG:HH11	1:A:652:ARG:CG	2.03	0.70
1:B:93:HIS:CD2	1:B:237:PHE:CD1	2.70	0.70
1:B:114:SER:OG	1:B:117:ALA:HB2	1.91	0.70
1:B:186:LEU:HD12	1:B:186:LEU:N	2.05	0.70
1:B:292:ILE:HD12	1:B:292:ILE:N	2.06	0.70
1:B:314:SER:HB2	1:B:317:ILE:CB	2.19	0.70
1:B:352:MET:O	1:B:352:MET:HE3	1.90	0.70
1:B:408:PHE:HB3	1:B:632:ILE:CG1	2.20	0.70
1:B:501:VAL:C	1:B:502:VAL:CG1	2.63	0.70
1:B:584:SER:C	1:B:585:THR:HG22	2.16	0.70
1:B:600:LYS:HB2	1:B:602:TYR:OH	1.90	0.70
1:B:607:LYS:CB	1:B:608:GLU:CA	2.69	0.70
1:B:619:GLU:HB2	1:B:620:ARG:HG3	1.72	0.70
1:B:678:ILE:C	1:B:678:ILE:HD12	2.16	0.70
1:B:694:ALA:HB1	1:B:726:TRP:HE1	1.56	0.70
1:A:59:GLY:O	1:A:156:HIS:CG	2.44	0.70
1:A:89:PHE:HE2	1:A:146:PHE:HD2	1.34	0.70
1:A:193:SER:C	1:A:196:ARG:HB2	2.15	0.70
1:A:201:ALA:HA	1:A:204:SER:OG	1.90	0.70
1:A:290:LEU:HD12	1:A:290:LEU:O	1.90	0.70
1:A:639:TRP:C	1:A:641:VAL:N	2.43	0.70
1:B:40:PHE:HE2	1:B:495:VAL:HG12	1.55	0.70
1:B:60:ASN:O	1:B:61:ILE:HD12	1.90	0.70
1:B:105:LYS:N	1:B:105:LYS:HZ3	1.89	0.70
1:B:408:PHE:HB2	1:B:632:ILE:CD1	2.21	0.70
1:B:590:GLU:CA	1:B:607:LYS:HB3	2.21	0.70
1:B:681:ILE:HG22	1:B:731:VAL:HG13	1.59	0.70
1:B:705:ARG:HA	1:B:705:ARG:NE	2.05	0.70
1:A:29:LEU:HD22	1:A:29:LEU:H	1.56	0.70
1:A:490:VAL:HG23	1:A:491:MET:N	2.04	0.70
1:A:503:VAL:HG23	1:A:519:VAL:CB	2.21	0.70
1:B:4:LEU:CB	1:B:5:LYS:HB2	2.19	0.70
1:B:97:ALA:HB2	1:B:234:THR:CG2	2.21	0.70
1:B:158:LEU:HD23	1:B:158:LEU:O	1.91	0.70
1:B:191:ARG:NH1	1:B:191:ARG:HB2	2.06	0.70
1:B:214:PHE:HD1	1:B:214:PHE:H	1.37	0.70
1:B:462:LEU:HD12	1:B:463:ARG:HG3	1.71	0.70
1:B:471:LEU:CB	1:B:476:SER:HA	2.21	0.70
1:B:510:ALA:HB3	1:B:511:ALA:C	2.17	0.70
1:B:568:LEU:HB2	1:B:571:HIS:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:647:LEU:O	1:B:647:LEU:HD22	1.91	0.70
1:B:726:TRP:CE3	1:B:729:LEU:HB2	2.26	0.70
1:B:759:VAL:C	1:B:760:VAL:HG23	2.16	0.70
1:A:278:THR:HG21	1:A:281:ILE:HG21	1.72	0.70
1:A:281:ILE:HD13	1:A:285:ARG:HH21	1.56	0.70
1:A:365:GLN:HE21	1:A:367:ALA:C	1.99	0.70
1:A:544:GLU:HG2	1:A:547:GLU:HB2	1.73	0.70
1:A:597:ILE:CD1	1:A:598:ARG:HD2	2.14	0.70
1:A:630:HIS:CB	1:A:737:LEU:HD21	2.17	0.70
1:B:102:ILE:HG21	1:B:135:LEU:HD21	1.73	0.70
1:B:127:PRO:CA	1:B:130:ALA:HB3	2.22	0.70
1:B:400:THR:HG21	1:B:686:ILE:CG1	2.21	0.70
1:B:668:MET:HA	1:B:671:ALA:HB2	1.71	0.70
1:A:49:THR:HG23	1:A:50:SER:N	2.07	0.70
1:A:59:GLY:O	1:A:156:HIS:CD2	2.44	0.70
1:A:233:ALA:O	1:A:236:ALA:CA	2.39	0.70
1:A:309:SER:O	1:A:313:LEU:HD22	1.91	0.70
1:A:498:ASN:ND2	1:A:522:VAL:HG12	2.06	0.70
1:A:624:LEU:O	1:A:626:PRO:HD3	1.91	0.70
1:B:118:ILE:O	1:B:222:PRO:CD	2.40	0.70
1:B:145:LEU:N	1:B:145:LEU:HD12	2.06	0.70
1:B:260:LEU:HD11	1:B:285:ARG:HB2	1.73	0.70
1:B:322:ILE:HG13	1:B:323:GLU:OE1	1.92	0.70
1:B:401:LEU:HD22	1:B:404:ILE:HD11	1.71	0.70
1:B:462:LEU:HD13	1:B:463:ARG:CG	2.21	0.70
1:B:735:MET:CG	1:B:737:LEU:HD13	2.21	0.70
1:A:4:LEU:HD13	1:A:9:LEU:CB	2.22	0.70
1:A:52:LEU:N	1:A:174:VAL:HG22	2.07	0.70
1:A:265:THR:CB	1:A:267:LYS:H	2.02	0.70
1:A:349:ILE:CG2	1:A:354:GLN:HA	2.20	0.70
1:A:742:GLU:O	1:A:746:LEU:N	2.22	0.70
1:B:21:ALA:CB	1:B:295:GLN:HG3	2.21	0.70
1:B:33:ALA:O	1:B:35:GLN:CD	2.33	0.70
1:B:243:ASN:HD21	1:B:244:PHE:HD2	1.38	0.70
1:A:194:ASP:O	1:A:198:MET:N	2.24	0.70
1:A:281:ILE:HD12	1:A:281:ILE:C	2.17	0.70
1:A:346:THR:OG1	1:A:347:SER:O	2.08	0.70
1:A:386:PHE:CD1	1:A:576:HIS:HB3	2.26	0.70
1:A:524:THR:HG23	1:A:539:SER:C	2.16	0.70
1:A:589:TYR:OH	1:A:591:ASP:OD1	2.04	0.70
1:B:294:TYR:O	1:B:298:VAL:HG23	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:363:ASP:CB	1:B:441:PHE:HB3	2.21	0.70
1:B:571:HIS:CA	1:B:574:SER:HB2	2.17	0.70
1:A:47:SER:H	1:A:48:MET:CE	2.05	0.70
1:A:148:HIS:NE2	1:A:578:TRP:HH2	1.89	0.70
1:A:232:ALA:O	1:A:236:ALA:CB	2.39	0.70
1:A:546:LEU:O	1:A:549:ILE:N	2.25	0.70
1:B:7:LYS:CD	1:B:531:GLY:HA2	2.10	0.70
1:B:56:VAL:O	1:B:170:TYR:HB2	1.92	0.70
1:B:110:ILE:C	1:B:111:THR:HG23	2.17	0.70
1:B:156:HIS:CD2	1:B:210:LEU:HD22	2.21	0.70
1:B:158:LEU:HD23	1:B:158:LEU:C	2.17	0.70
1:B:283:GLN:NE2	1:B:283:GLN:H	1.90	0.70
1:B:372:ALA:HB3	1:B:389:VAL:CB	2.21	0.70
1:B:518:LEU:O	1:B:543:PRO:HA	1.92	0.70
1:A:187:VAL:HG13	1:A:247:ASN:CA	2.12	0.70
1:A:462:LEU:CD2	1:A:483:MET:HE3	2.22	0.70
1:A:600:LYS:HE2	1:A:705:ARG:CZ	2.22	0.70
1:A:677:LYS:HA	1:A:680:MET:CG	2.21	0.70
1:A:715:HIS:CD2	1:A:716:VAL:HG13	2.26	0.70
1:B:45:SER:HA	1:B:181:PRO:HD3	1.71	0.70
1:B:106:LEU:O	1:B:110:ILE:HG13	1.91	0.70
1:B:312:GLU:HG3	1:B:313:LEU:H	1.55	0.70
1:B:354:GLN:HB2	1:B:528:ILE:HG21	0.74	0.70
1:B:623:ILE:HD12	1:B:625:LYS:HB3	0.75	0.70
1:B:647:LEU:HD13	1:B:647:LEU:C	2.17	0.70
1:B:449:TYR:CB	1:B:634:GLN:OE1	2.40	0.70
1:B:580:TRP:CZ3	1:B:583:ALA:HB2	2.26	0.70
1:B:726:TRP:CE3	1:B:726:TRP:HA	2.27	0.70
1:A:493:TYR:OH	1:A:549:ILE:HB	1.91	0.69
1:A:629:ALA:HB3	1:A:735:MET:CE	2.23	0.69
1:A:723:ILE:CG2	1:A:724:ARG:HD3	2.10	0.69
1:A:729:LEU:CD1	1:A:733:GLN:HG2	2.18	0.69
1:B:47:SER:HG	1:B:332:LYS:HZ1	1.40	0.69
1:B:68:ARG:HH22	1:B:328:VAL:HA	1.57	0.69
1:B:173:ARG:O	1:B:174:VAL:CG1	2.40	0.69
1:B:180:TYR:HE2	1:B:492:HIS:CE1	2.08	0.69
1:B:228:HIS:HA	1:B:231:ASN:HB3	1.73	0.69
1:B:235:THR:HB	1:B:239:ARG:HH22	1.56	0.69
1:B:282:ASP:HB2	1:B:285:ARG:NH2	2.07	0.69
1:B:345:GLN:HB2	1:B:554:PRO:HA	1.73	0.69
1:B:462:LEU:CD1	1:B:463:ARG:HG3	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:527:ARG:H	1:B:527:ARG:HD2	1.57	0.69
1:B:542:THR:HG21	1:B:547:GLU:CB	2.20	0.69
1:B:756:LEU:HG	1:B:757:GLY:H	1.57	0.69
1:A:22:ILE:HG22	1:A:23:GLY:N	2.03	0.69
1:A:170:TYR:HA	1:A:576:HIS:CE1	2.26	0.69
1:A:200:THR:O	1:A:204:SER:N	2.25	0.69
1:A:285:ARG:O	1:A:288:LEU:HD13	1.93	0.69
1:A:505:GLU:HG2	1:A:515:SER:O	1.91	0.69
1:B:102:ILE:HD12	1:B:103:TRP:N	2.08	0.69
1:B:190:VAL:HG12	1:B:323:GLU:HB3	1.72	0.69
1:B:371:THR:OG1	1:B:623:ILE:CG1	2.40	0.69
1:A:108:ALA:CA	1:A:112:GLY:CA	2.66	0.69
1:A:236:ALA:HA	1:A:239:ARG:HD3	1.74	0.69
1:A:287:ASN:ND2	1:A:290:LEU:HD21	2.07	0.69
1:A:374:THR:HG22	1:A:620:ARG:NH1	2.06	0.69
1:A:459:ILE:HG12	1:A:486:TYR:CE2	2.27	0.69
1:A:547:GLU:CA	1:A:550:ALA:HB3	2.22	0.69
1:A:732:LEU:CG	1:A:738:LEU:HD21	2.22	0.69
1:A:758:MET:CB	1:A:759:VAL:HA	2.21	0.69
1:B:57:GLY:CA	1:B:58:LYS:HE2	2.21	0.69
1:B:312:GLU:OE1	1:B:313:LEU:HD23	1.91	0.69
1:B:340:THR:HB	1:B:342:TYR:OH	1.91	0.69
1:B:401:LEU:CD2	1:B:404:ILE:HD11	2.22	0.69
1:B:742:GLU:HA	1:B:742:GLU:OE1	1.92	0.69
1:B:756:LEU:CG	1:B:757:GLY:H	2.05	0.69
1:A:54:TRP:O	1:A:171:VAL:HA	1.92	0.69
1:A:213:THR:HB	1:A:215:LYS:HB3	1.72	0.69
1:A:393:ILE:CG2	1:A:612:LEU:HD12	2.22	0.69
1:A:471:LEU:HD12	1:A:477:ASN:H	1.56	0.69
1:B:106:LEU:O	1:B:110:ILE:N	2.25	0.69
1:B:171:VAL:HG13	1:B:577:ILE:C	2.17	0.69
1:B:196:ARG:HG3	1:B:196:ARG:HH11	1.56	0.69
1:B:216:ALA:H	1:B:220:LEU:HD12	1.56	0.69
1:B:362:GLU:OE2	1:B:442:PRO:N	2.26	0.69
1:B:426:GLN:O	1:B:429:THR:HG22	1.92	0.69
1:B:535:ILE:HG12	1:B:539:SER:O	1.91	0.69
1:B:756:LEU:HD12	1:B:757:GLY:N	2.08	0.69
1:A:128:PRO:HD3	1:A:166:PRO:CB	2.16	0.69
1:A:180:TYR:HB3	1:A:331:PHE:CA	2.22	0.69
1:A:346:THR:HG23	1:A:438:THR:OG1	1.93	0.69
1:A:352:MET:HE3	1:A:356:SER:OG	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:PRO:HA	1:A:458:ALA:CB	2.23	0.69
1:A:614:LEU:HD23	1:A:615:GLY:H	1.57	0.69
1:A:683:THR:HG22	1:A:684:THR:N	2.02	0.69
1:A:690:ALA:HA	1:A:693:LEU:HD22	1.73	0.69
1:A:748:LYS:HA	1:A:748:LYS:CE	2.23	0.69
1:B:90:THR:O	1:B:237:PHE:CE1	2.46	0.69
1:B:153:PHE:CE2	1:B:202:LEU:HB3	2.27	0.69
1:B:156:HIS:CD2	1:B:158:LEU:HB3	2.27	0.69
1:B:444:VAL:HB	1:B:486:TYR:CZ	2.27	0.69
1:B:674:LEU:CD1	1:B:749:VAL:HG21	2.22	0.69
1:B:684:THR:OG1	1:B:731:VAL:HG22	1.91	0.69
1:A:4:LEU:CB	1:A:13:ALA:HB3	2.22	0.69
1:A:82:VAL:CA	1:A:85:LEU:HD21	2.21	0.69
1:A:104:ARG:CD	1:A:104:ARG:H	2.03	0.69
1:A:109:TYR:C	1:A:110:ILE:HD12	2.18	0.69
1:A:128:PRO:CG	1:A:129:THR:HB	2.22	0.69
1:A:422:GLU:OE2	1:B:116:ARG:CG	2.40	0.69
1:B:114:SER:OG	1:B:223:ALA:N	2.25	0.69
1:B:608:GLU:C	1:B:609:PHE:HD1	2.01	0.69
1:B:732:LEU:HD23	1:B:732:LEU:C	2.17	0.69
1:A:7:LYS:H	1:A:433:ASN:CG	1.96	0.69
1:A:183:PHE:CE2	1:A:184:TYR:CD1	2.81	0.69
1:A:259:ARG:HG3	1:A:269:LEU:CD1	2.14	0.69
1:A:527:ARG:NH1	1:A:528:ILE:CD1	2.55	0.69
1:A:585:THR:O	1:A:622:ARG:HD2	1.92	0.69
1:B:35:GLN:HG2	1:B:502:VAL:C	2.18	0.69
1:B:53:LEU:CD1	1:B:571:HIS:ND1	2.56	0.69
1:B:68:ARG:NH1	1:B:328:VAL:O	2.26	0.69
1:B:128:PRO:HA	1:B:131:ILE:CA	2.23	0.69
1:B:275:LEU:HD11	1:B:316:THR:N	2.06	0.69
1:A:62:ASP:HB3	1:A:66:TYR:CE2	2.27	0.69
1:A:110:ILE:HG22	1:A:111:THR:N	2.08	0.69
1:A:129:THR:HG22	1:A:130:ALA:HB2	1.74	0.69
1:A:315:SER:CB	1:A:318:ILE:HB	2.22	0.69
1:A:344:GLY:HA3	1:A:361:TYR:C	2.18	0.69
1:A:595:VAL:HG23	1:A:602:TYR:O	1.92	0.69
1:A:607:LYS:H	1:A:610:GLU:CD	2.00	0.69
1:B:82:VAL:HG23	1:B:188:ASP:OD2	1.93	0.69
1:B:125:LYS:CA	1:B:128:PRO:HD3	2.23	0.69
1:B:180:TYR:CE1	1:B:489:ALA:HA	2.27	0.69
1:B:348:ALA:C	1:B:354:GLN:O	2.34	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:370:ILE:HG21	1:B:625:LYS:HB2	1.73	0.69
1:B:425:SER:CB	1:B:429:THR:HG23	2.17	0.69
1:B:520:TRP:CZ3	1:B:548:ALA:HB1	2.27	0.69
1:B:535:ILE:O	1:B:536:GLU:CB	2.37	0.69
1:B:596:THR:HG22	1:B:601:ARG:NE	2.08	0.69
1:B:638:SER:O	1:B:641:VAL:HG23	1.92	0.69
1:A:6:VAL:HG12	1:A:531:GLY:CA	2.20	0.69
1:A:272:SER:CA	1:A:276:ARG:NE	2.55	0.69
1:B:173:ARG:HD2	1:B:174:VAL:CA	2.23	0.69
1:A:80:LEU:N	1:A:80:LEU:HD23	2.07	0.69
1:A:170:TYR:N	1:A:575:ILE:HG21	2.08	0.69
1:A:507:GLN:OE1	1:A:508:GLY:N	2.25	0.69
1:A:544:GLU:HG2	1:A:547:GLU:OE1	1.92	0.69
1:B:38:LEU:HG	1:B:501:VAL:CB	2.15	0.69
1:B:172:TYR:HD1	1:B:173:ARG:N	1.90	0.69
1:B:651:ARG:NE	1:B:660:LYS:CG	2.56	0.69
1:A:388:ASP:CG	1:A:389:VAL:HG12	2.17	0.68
1:A:598:ARG:O	1:A:599:ASN:CG	2.36	0.68
1:A:661:LEU:HD22	1:A:661:LEU:N	2.01	0.68
1:A:674:LEU:CA	1:A:677:LYS:HE2	2.23	0.68
1:A:744:GLU:OE1	1:A:744:GLU:HA	1.92	0.68
1:B:22:ILE:CG1	1:B:517:TYR:HD1	2.06	0.68
1:B:216:ALA:HB1	1:B:217:LYS:HB2	1.75	0.68
1:B:316:THR:HG22	1:B:320:TRP:CD1	2.28	0.68
1:B:477:ASN:HA	1:B:480:LYS:CG	2.24	0.68
1:B:498:ASN:OD1	1:B:522:VAL:HG22	1.93	0.68
1:B:506:HIS:N	1:B:507:GLN:HB3	2.08	0.68
1:B:523:ARG:HA	1:B:539:SER:HA	1.76	0.68
1:B:602:TYR:CB	1:B:701:GLN:HB3	2.22	0.68
1:B:678:ILE:HD12	1:B:679:GLU:N	2.07	0.68
1:B:693:LEU:HG	1:B:697:ARG:HH22	1.59	0.68
1:A:213:THR:HB	1:A:215:LYS:CD	2.14	0.68
1:A:287:ASN:ND2	1:A:290:LEU:HD11	2.08	0.68
1:B:45:SER:HB2	1:B:180:TYR:HA	1.74	0.68
1:B:70:PHE:HD1	1:B:85:LEU:HD11	1.56	0.68
1:B:393:ILE:CG2	1:B:397:MET:HG2	2.23	0.68
1:B:415:LYS:NZ	1:B:415:LYS:O	2.23	0.68
1:B:637:TYR:HA	1:B:640:PHE:CE2	2.28	0.68
1:A:16:LEU:HD11	1:A:463:ARG:CA	2.23	0.68
1:A:23:GLY:C	1:A:26:LYS:HZ1	1.95	0.68
1:A:62:ASP:CG	1:A:65:MET:H	2.01	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:GLN:CB	1:A:578:TRP:HE1	1.97	0.68
1:A:601:ARG:CZ	1:A:601:ARG:HA	2.23	0.68
1:A:636:TRP:CE2	1:A:640:PHE:HZ	2.08	0.68
1:A:678:ILE:O	1:A:679:GLU:C	2.33	0.68
1:A:716:VAL:HG21	1:B:378:LEU:HD13	1.74	0.68
1:B:93:HIS:HB3	1:B:237:PHE:CD1	2.10	0.68
1:B:249:VAL:O	1:B:253:VAL:HG23	1.93	0.68
1:B:284:LEU:HD11	1:B:290:LEU:CD2	2.23	0.68
1:B:587:PHE:HA	1:B:622:ARG:HA	1.75	0.68
1:B:607:LYS:HG3	1:B:609:PHE:CG	2.05	0.68
1:B:681:ILE:C	1:B:731:VAL:CG2	2.53	0.68
1:A:107:THR:C	1:A:112:GLY:HA3	2.18	0.68
1:A:276:ARG:O	1:A:276:ARG:NH2	2.26	0.68
1:A:520:TRP:CE3	1:A:545:PRO:CG	2.76	0.68
1:A:522:VAL:HG23	1:A:523:ARG:O	1.94	0.68
1:B:82:VAL:HG23	1:B:188:ASP:CG	2.18	0.68
1:B:368:LYS:HB2	1:B:369:GLU:OE1	1.93	0.68
1:B:377:LYS:CB	1:B:385:ARG:NE	2.57	0.68
1:B:393:ILE:HA	1:B:612:LEU:HD12	1.75	0.68
1:B:617:ARG:HG3	1:B:617:ARG:HH11	1.58	0.68
1:A:35:GLN:HB2	1:A:263:PRO:CB	2.23	0.68
1:A:82:VAL:HB	1:A:188:ASP:HB3	1.75	0.68
1:A:170:TYR:CD1	1:A:576:HIS:HE1	2.11	0.68
1:A:211:GLN:CG	1:A:214:PHE:HD2	2.05	0.68
1:A:680:MET:O	1:A:684:THR:HB	1.93	0.68
1:B:97:ALA:HB2	1:B:234:THR:CB	2.22	0.68
1:B:156:HIS:HD2	1:B:158:LEU:CA	2.07	0.68
1:B:183:PHE:N	1:B:186:LEU:HD13	2.08	0.68
1:B:228:HIS:HD2	1:B:231:ASN:HD21	0.69	0.68
1:B:471:LEU:HB2	1:B:476:SER:N	2.08	0.68
1:A:24:GLU:CG	1:A:26:LYS:HG2	2.23	0.68
1:A:45:SER:N	1:A:332:LYS:HG3	2.08	0.68
1:A:51:GLU:HA	1:A:174:VAL:CG1	2.24	0.68
1:A:355:PRO:HB2	1:A:434:GLY:H	1.57	0.68
1:A:422:GLU:CD	1:B:116:ARG:CG	2.65	0.68
1:A:524:THR:HG21	1:A:540:ILE:CG1	2.23	0.68
1:B:29:LEU:HD13	1:B:532:TYR:CE1	2.28	0.68
1:B:140:PRO:O	1:B:141:SER:OG	2.12	0.68
1:B:183:PHE:CA	1:B:186:LEU:CD1	2.53	0.68
1:B:324:ALA:CB	1:B:333:LEU:HD23	2.23	0.68
1:B:362:GLU:OE1	1:B:442:PRO:CG	2.39	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:753:SER:C	1:B:755:ALA:N	2.51	0.68
1:A:64:VAL:HG13	1:A:196:ARG:HA	1.75	0.68
1:A:164:ILE:C	1:A:164:ILE:HD12	2.18	0.68
1:A:195:LEU:C	1:A:199:LEU:HB2	2.17	0.68
1:A:231:ASN:O	1:A:235:THR:OG1	2.09	0.68
1:A:292:ILE:HG22	1:A:295:GLN:CG	2.15	0.68
1:A:692:HIS:O	1:A:696:SER:N	2.25	0.68
1:A:752:ASP:OD1	1:A:752:ASP:N	2.23	0.68
1:B:8:ASP:CG	1:B:9:LEU:C	2.62	0.68
1:B:410:VAL:O	1:B:414:VAL:HG12	1.93	0.68
1:B:414:VAL:C	1:B:418:THR:HG1	1.95	0.68
1:B:498:ASN:C	1:B:498:ASN:HD22	2.01	0.68
1:B:675:LEU:HD22	1:B:675:LEU:C	2.19	0.68
1:A:674:LEU:O	1:A:678:ILE:HG13	1.94	0.68
1:A:752:ASP:HA	1:A:754:ASN:O	1.94	0.68
1:B:47:SER:CB	1:B:332:LYS:HE2	2.22	0.68
1:B:585:THR:OG1	1:B:586:GLU:N	2.24	0.68
1:A:48:MET:O	1:A:49:THR:HG22	1.93	0.68
1:A:315:SER:OG	1:A:316:THR:N	2.26	0.68
1:A:348:ALA:C	1:A:349:ILE:HG22	2.19	0.68
1:A:535:ILE:CG1	1:A:540:ILE:HD13	2.23	0.68
1:A:549:ILE:O	1:A:552:ASN:O	2.11	0.68
1:A:689:SER:O	1:A:690:ALA:O	2.12	0.68
1:A:729:LEU:C	1:A:729:LEU:HD13	2.18	0.68
1:B:9:LEU:CB	1:B:16:LEU:HD23	2.16	0.68
1:B:37:PRO:O	1:B:38:LEU:HD13	1.94	0.68
1:B:128:PRO:HA	1:B:131:ILE:H	1.59	0.68
1:B:292:ILE:H	1:B:292:ILE:CD1	2.05	0.68
1:B:318:ILE:N	1:B:318:ILE:HD12	2.09	0.68
1:B:542:THR:CG2	1:B:547:GLU:HB3	2.21	0.68
1:B:688:ALA:O	1:B:691:VAL:HB	1.93	0.68
1:A:319:PRO:HD2	1:A:320:TRP:H	1.58	0.68
1:A:342:TYR:C	1:A:559:GLU:HG2	2.18	0.68
1:A:617:ARG:HD2	1:A:618:ARG:O	1.94	0.68
1:A:723:ILE:HD13	1:A:723:ILE:C	2.19	0.68
1:A:740:ARG:HG3	1:A:740:ARG:NH1	2.09	0.68
1:B:69:LEU:HD22	1:B:69:LEU:H	1.59	0.68
1:B:238:GLU:OE1	1:B:238:GLU:HA	1.92	0.68
1:B:363:ASP:H	1:B:441:PHE:HB3	1.57	0.68
1:B:617:ARG:C	1:B:619:GLU:HG3	2.19	0.68
1:B:625:LYS:H	1:B:625:LYS:NZ	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:670:ASN:HD21	1:B:749:VAL:HG11	0.51	0.68
1:A:177:THR:HG22	1:A:178:ALA:N	2.07	0.67
1:A:258:GLY:HA3	1:A:294:TYR:CD2	2.28	0.67
1:A:649:ALA:C	1:A:652:ARG:HG2	2.19	0.67
1:A:660:LYS:O	1:A:661:LEU:C	2.34	0.67
1:B:471:LEU:HD12	1:B:476:SER:CA	2.18	0.67
1:B:577:ILE:HD12	1:B:577:ILE:C	2.16	0.67
1:B:735:MET:HG3	1:B:737:LEU:CD1	2.24	0.67
1:A:52:LEU:CB	1:A:174:VAL:HG13	2.24	0.67
1:A:150:THR:O	1:A:154:VAL:HG23	1.94	0.67
1:A:388:ASP:OD2	1:A:389:VAL:CG1	2.42	0.67
1:A:407:THR:O	1:A:408:PHE:HB2	1.92	0.67
1:A:505:GLU:CA	1:A:516:LEU:HB3	2.24	0.67
1:A:738:LEU:C	1:A:739:SER:OG	2.35	0.67
1:B:51:GLU:HB2	1:B:564:LYS:HZ1	1.58	0.67
1:B:377:LYS:HD3	1:B:377:LYS:C	2.18	0.67
1:B:408:PHE:HB2	1:B:632:ILE:HD13	1.75	0.67
1:A:128:PRO:HG2	1:A:129:THR:CB	2.23	0.67
1:A:151:THR:O	1:A:155:CYS:N	2.26	0.67
1:A:183:PHE:HE2	1:A:184:TYR:HE1	1.37	0.67
1:A:283:GLN:HA	1:A:286:SER:CB	2.16	0.67
1:A:292:ILE:HA	1:A:295:GLN:HB3	1.76	0.67
1:A:599:ASN:HD21	1:A:600:LYS:HD2	1.60	0.67
1:A:685:GLY:HA2	1:A:686:ILE:C	2.19	0.67
1:A:721:HIS:O	1:A:724:ARG:N	2.27	0.67
1:B:93:HIS:C	1:B:237:PHE:CZ	2.50	0.67
1:B:118:ILE:C	1:B:222:PRO:HD3	2.19	0.67
1:B:172:TYR:OH	1:B:579:PRO:HG3	1.95	0.67
1:B:284:LEU:CD2	1:B:290:LEU:HD23	2.18	0.67
1:B:288:LEU:O	1:B:291:PHE:N	2.28	0.67
1:B:294:TYR:CZ	1:B:516:LEU:HD11	2.29	0.67
1:B:349:ILE:CD1	1:B:351:HIS:H	2.07	0.67
1:B:373:PHE:CZ	1:B:624:LEU:HB2	2.30	0.67
1:B:544:GLU:HB3	1:B:547:GLU:HG2	1.76	0.67
1:B:583:ALA:HB3	1:B:585:THR:N	2.09	0.67
1:B:651:ARG:CZ	1:B:660:LYS:CG	2.53	0.67
1:B:695:GLN:O	1:B:698:ILE:HG13	1.94	0.67
1:B:715:HIS:C	1:B:720:ARG:NH2	2.52	0.67
1:A:35:GLN:CB	1:A:263:PRO:HB2	2.24	0.67
1:A:107:THR:CG2	1:A:226:SER:OG	2.43	0.67
1:A:411:SER:OG	1:A:415:LYS:HD3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:462:LEU:HG	1:A:483:MET:SD	2.35	0.67
1:A:597:ILE:CD1	1:A:598:ARG:N	2.56	0.67
1:A:742:GLU:CD	1:A:742:GLU:H	1.93	0.67
1:B:42:ARG:HD2	1:B:337:ASN:N	2.08	0.67
1:B:44:PHE:CG	1:B:333:LEU:HD22	2.28	0.67
1:B:165:LEU:O	1:B:165:LEU:HD13	1.95	0.67
1:B:177:THR:OG1	1:B:178:ALA:N	2.26	0.67
1:B:182:ASN:O	1:B:186:LEU:CD1	2.42	0.67
1:B:245:ASP:O	1:B:249:VAL:N	2.25	0.67
1:B:396:ARG:HB3	1:B:612:LEU:HD21	1.76	0.67
1:B:408:PHE:HB3	1:B:632:ILE:CD1	2.24	0.67
1:B:561:LEU:HD23	1:B:561:LEU:N	2.09	0.67
1:B:568:LEU:HD13	1:B:572:THR:HA	1.75	0.67
1:B:695:GLN:HA	1:B:698:ILE:CG1	2.24	0.67
1:A:278:THR:OG1	1:A:281:ILE:HG13	1.95	0.67
1:A:587:PHE:CE2	1:A:621:VAL:CA	2.76	0.67
1:A:674:LEU:O	1:A:677:LYS:HE2	1.94	0.67
1:B:69:LEU:HG	1:B:172:TYR:CG	2.29	0.67
1:B:81:SER:HB2	1:B:188:ASP:OD2	1.95	0.67
1:B:101:GLU:C	1:B:105:LYS:HD2	2.19	0.67
1:B:107:THR:O	1:B:110:ILE:HB	1.95	0.67
1:B:146:PHE:HA	1:B:149:ILE:HB	1.76	0.67
1:B:171:VAL:HG13	1:B:578:TRP:N	2.10	0.67
1:B:349:ILE:HD12	1:B:351:HIS:N	2.08	0.67
1:B:393:ILE:O	1:B:397:MET:HG3	1.94	0.67
1:B:462:LEU:HD12	1:B:463:ARG:CG	2.24	0.67
1:B:602:TYR:HA	1:B:701:GLN:NE2	2.10	0.67
1:A:51:GLU:HB3	1:A:174:VAL:CG2	2.23	0.67
1:A:350:ASP:OD1	1:A:351:HIS:CB	2.32	0.67
1:B:269:LEU:HD13	1:B:271:PRO:CD	2.24	0.67
1:B:401:LEU:CA	1:B:404:ILE:CG1	2.53	0.67
1:B:593:TYR:CE2	1:B:723:ILE:HA	2.29	0.67
1:B:614:LEU:HD13	1:B:615:GLY:CA	2.22	0.67
1:B:619:GLU:CB	1:B:620:ARG:HG3	2.25	0.67
1:B:627:THR:O	1:B:631:ALA:N	2.25	0.67
1:A:49:THR:OG1	1:A:564:LYS:N	2.28	0.67
1:A:52:LEU:N	1:A:174:VAL:HG13	2.10	0.67
1:A:221:ALA:CA	1:A:224:LEU:HB3	2.22	0.67
1:A:281:ILE:O	1:A:285:ARG:N	2.19	0.67
1:A:335:PRO:C	1:A:336:ILE:HD13	2.20	0.67
1:A:448:ASP:HB3	1:A:453:ARG:HG2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:ASN:HD22	1:A:522:VAL:HG12	1.59	0.67
1:A:593:TYR:O	1:A:604:ALA:N	2.28	0.67
1:B:42:ARG:NE	1:B:335:PRO:O	2.28	0.67
1:B:56:VAL:H	1:B:170:TYR:HB3	1.59	0.67
1:B:606:VAL:HG11	1:B:694:ALA:HB2	1.76	0.67
1:A:6:VAL:HG23	1:A:433:ASN:HB3	1.75	0.67
1:A:73:TYR:CE2	1:A:143:HIS:HB2	2.29	0.67
1:A:92:TYR:CZ	1:A:150:THR:HG21	2.30	0.67
1:A:108:ALA:O	1:A:112:GLY:HA3	1.94	0.67
1:A:183:PHE:HA	1:A:186:LEU:HD13	1.76	0.67
1:A:259:ARG:C	1:A:266:PRO:HG3	2.19	0.67
1:A:523:ARG:CA	1:A:539:SER:HB2	2.25	0.67
1:A:553:LYS:O	1:A:555:ILE:HG23	1.95	0.67
1:A:692:HIS:O	1:A:695:GLN:N	2.27	0.67
1:B:97:ALA:CB	1:B:234:THR:HG21	2.25	0.67
1:B:114:SER:HB3	1:B:117:ALA:HB2	1.76	0.67
1:B:128:PRO:CA	1:B:131:ILE:CG2	2.73	0.67
1:B:187:VAL:HG12	1:B:247:ASN:HA	1.77	0.67
1:B:225:ILE:HG22	1:B:228:HIS:ND1	2.10	0.67
1:B:232:ALA:O	1:B:236:ALA:N	2.27	0.67
1:B:368:LYS:HD2	1:B:368:LYS:N	2.06	0.67
1:B:578:TRP:HD1	1:B:579:PRO:HD2	1.59	0.67
1:A:20:PHE:HD1	1:A:299:LYS:HZ3	1.43	0.67
1:A:36:LEU:CA	1:A:263:PRO:HA	2.24	0.67
1:A:100:PRO:HG2	1:A:101:GLU:H	1.60	0.67
1:A:244:PHE:CE2	1:A:317:ILE:CD1	2.78	0.67
1:A:533:ASN:ND2	1:A:541:ARG:CZ	2.58	0.67
1:A:654:SER:N	1:A:655:ARG:CB	2.57	0.67
1:B:125:LYS:C	1:B:165:LEU:HD21	2.18	0.67
1:B:160:PRO:C	1:B:161:LEU:HD13	2.20	0.67
1:B:288:LEU:CG	1:B:292:ILE:HD11	2.25	0.67
1:B:376:VAL:O	1:B:378:LEU:CD1	2.43	0.67
1:B:571:HIS:C	1:B:574:SER:H	2.01	0.67
1:B:651:ARG:HG3	1:B:663:ILE:HG12	1.75	0.67
1:B:720:ARG:C	1:B:724:ARG:NH1	2.52	0.67
1:A:300:GLN:NE2	1:A:300:GLN:H	1.92	0.67
1:A:520:TRP:CZ3	1:A:545:PRO:HD3	2.29	0.67
1:A:649:ALA:HA	1:A:652:ARG:NH1	2.10	0.67
1:A:729:LEU:O	1:A:733:GLN:N	2.28	0.67
1:B:54:TRP:HD1	1:B:69:LEU:CD1	1.99	0.67
1:B:92:TYR:CD2	1:B:146:PHE:CD1	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:260:LEU:CD2	1:B:285:ARG:HB3	2.24	0.67
1:B:339:THR:OG1	1:B:496:ALA:HB1	1.95	0.67
1:B:339:THR:O	1:B:340:THR:HG23	1.95	0.67
1:B:376:VAL:C	1:B:378:LEU:HG	2.20	0.67
1:B:705:ARG:CB	1:B:707:LEU:HD11	2.24	0.67
1:B:708:ILE:HD12	1:B:708:ILE:C	2.21	0.67
1:B:745:ALA:CA	1:B:748:LYS:HD3	2.25	0.67
1:A:25:LEU:H	1:A:26:LYS:NZ	1.92	0.66
1:A:213:THR:OG1	1:A:215:LYS:O	2.13	0.66
1:A:222:PRO:C	1:A:224:LEU:H	1.98	0.66
1:A:268:GLU:OE1	1:A:269:LEU:HG	1.95	0.66
1:A:352:MET:HE1	1:A:428:GLY:N	2.04	0.66
1:A:521:ASN:HA	1:A:540:ILE:O	1.95	0.66
1:A:577:ILE:HB	1:A:579:PRO:HD2	1.75	0.66
1:A:599:ASN:ND2	1:A:600:LYS:HD2	2.09	0.66
1:B:82:VAL:CG2	1:B:188:ASP:HB3	2.25	0.66
1:B:85:LEU:HD23	1:B:85:LEU:C	2.20	0.66
1:B:128:PRO:HA	1:B:131:ILE:CG2	2.25	0.66
1:B:164:ILE:HG23	1:B:165:LEU:N	2.09	0.66
1:B:267:LYS:HD2	1:B:267:LYS:C	2.19	0.66
1:B:610:GLU:OE1	1:B:611:LEU:N	2.28	0.66
1:A:36:LEU:CB	1:A:263:PRO:N	2.46	0.66
1:A:179:THR:H	1:A:485:ASN:ND2	1.94	0.66
1:A:292:ILE:CA	1:A:295:GLN:HB3	2.25	0.66
1:A:303:ARG:HB2	1:A:303:ARG:HH11	1.60	0.66
1:A:345:GLN:N	1:A:360:VAL:HB	2.08	0.66
1:A:485:ASN:O	1:A:488:ALA:HB3	1.95	0.66
1:A:499:PRO:O	1:A:500:GLU:OE1	2.12	0.66
1:A:585:THR:O	1:A:622:ARG:HA	1.95	0.66
1:B:38:LEU:HD21	1:B:501:VAL:O	1.95	0.66
1:B:156:HIS:CD2	1:B:157:VAL:HG23	2.27	0.66
1:B:654:SER:HB2	1:B:659:GLU:CD	2.20	0.66
1:A:349:ILE:O	1:A:350:ASP:HB3	1.95	0.66
1:A:349:ILE:CD1	1:A:357:HIS:H	2.08	0.66
1:B:70:PHE:O	1:B:85:LEU:HD13	1.96	0.66
1:B:79:ALA:C	1:B:80:LEU:HD23	2.19	0.66
1:B:100:PRO:HG2	1:B:101:GLU:OE1	1.94	0.66
1:B:308:PHE:HZ	1:B:318:ILE:CA	2.07	0.66
1:B:606:VAL:HG21	1:B:693:LEU:CD2	2.24	0.66
1:B:724:ARG:HA	1:B:724:ARG:CZ	2.25	0.66
1:A:38:LEU:HD21	1:A:39:GLN:O	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:ARG:O	1:A:289:ALA:HB1	1.61	0.66
1:A:272:SER:O	1:A:275:LEU:CB	2.44	0.66
1:A:364:TRP:HA	1:A:364:TRP:CE3	2.30	0.66
1:A:388:ASP:OD2	1:A:389:VAL:N	2.20	0.66
1:A:388:ASP:C	1:A:569:ALA:HB1	2.20	0.66
1:A:617:ARG:CD	1:A:618:ARG:O	2.43	0.66
1:B:6:VAL:HG21	1:B:530:VAL:CA	2.23	0.66
1:B:73:TYR:O	1:B:76:ALA:HB3	1.95	0.66
1:B:216:ALA:H	1:B:220:LEU:CD1	2.09	0.66
1:B:271:PRO:O	1:B:276:ARG:HD2	1.95	0.66
1:B:346:THR:O	1:B:359:VAL:HB	1.94	0.66
1:B:368:LYS:CD	1:B:369:GLU:CD	2.69	0.66
1:B:479:LEU:O	1:B:483:MET:HG3	1.95	0.66
1:B:520:TRP:O	1:B:541:ARG:HA	1.95	0.66
1:B:523:ARG:HA	1:B:538:GLY:O	1.94	0.66
1:B:580:TRP:CE2	1:B:581:HIS:ND1	2.59	0.66
1:A:252:SER:HG	1:A:308:PHE:HE1	1.44	0.66
1:B:86:VAL:HG21	1:B:191:ARG:O	1.94	0.66
1:B:101:GLU:HA	1:B:104:ARG:CB	2.26	0.66
1:B:190:VAL:CG1	1:B:323:GLU:CG	2.69	0.66
1:B:257:LEU:HD22	1:B:290:LEU:CG	2.21	0.66
1:B:289:ALA:HB2	1:B:492:HIS:NE2	2.10	0.66
1:B:356:SER:CB	1:B:435:ALA:HA	2.24	0.66
1:B:611:LEU:HD11	1:B:689:SER:HG	1.61	0.66
1:A:52:LEU:O	1:A:174:VAL:HG13	1.95	0.66
1:A:278:THR:HG1	1:A:281:ILE:HG13	1.60	0.66
1:A:361:TYR:HE2	1:A:410:VAL:HG11	1.60	0.66
1:A:555:ILE:O	1:A:556:GLN:HB3	1.95	0.66
1:A:716:VAL:HG23	1:A:717:GLY:N	2.11	0.66
1:B:244:PHE:CZ	1:B:318:ILE:HG23	2.31	0.66
1:B:288:LEU:HD23	1:B:292:ILE:HD11	1.75	0.66
1:B:371:THR:O	1:B:623:ILE:HB	1.96	0.66
1:B:401:LEU:C	1:B:404:ILE:H	2.04	0.66
1:B:404:ILE:CB	1:B:737:LEU:HD21	2.25	0.66
1:B:415:LYS:HZ2	1:B:419:ALA:HB2	1.59	0.66
1:B:490:VAL:O	1:B:494:ALA:N	2.29	0.66
1:A:68:ARG:NH1	1:A:329:SER:HA	2.09	0.66
1:A:180:TYR:CB	1:A:331:PHE:HA	2.25	0.66
1:A:455:PRO:O	1:A:458:ALA:HB3	1.96	0.66
1:A:523:ARG:CG	1:A:524:THR:N	2.58	0.66
1:B:43:THR:HG21	1:B:289:ALA:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:LYS:HG2	1:B:59:GLY:H	1.58	0.66
1:B:334:ARG:CD	1:B:335:PRO:HD3	2.10	0.66
1:B:400:THR:CG2	1:B:686:ILE:HD13	2.24	0.66
1:B:437:MET:HE1	1:B:550:ALA:HA	1.75	0.66
1:B:506:HIS:CA	1:B:507:GLN:CB	2.73	0.66
1:A:159:SER:N	1:A:163:PHE:O	2.28	0.66
1:A:187:VAL:HA	1:A:190:VAL:HG23	1.76	0.66
1:A:198:MET:HE1	1:A:241:ARG:HD3	1.77	0.66
1:A:259:ARG:CD	1:A:266:PRO:HB3	2.25	0.66
1:A:268:GLU:OE1	1:A:269:LEU:CA	2.43	0.66
1:A:308:PHE:O	1:A:309:SER:C	2.36	0.66
1:A:420:VAL:HG11	1:A:643:ASP:OD2	1.96	0.66
1:B:101:GLU:HB3	1:B:105:LYS:HD3	1.77	0.66
1:B:437:MET:SD	1:B:550:ALA:HB1	2.36	0.66
1:B:672:VAL:O	1:B:675:LEU:HD13	1.95	0.66
1:B:729:LEU:CD2	1:B:732:LEU:HD13	2.25	0.66
1:B:754:ASN:O	1:B:756:LEU:N	2.23	0.66
1:A:34:LEU:CD1	1:A:35:GLN:HG3	2.25	0.66
1:A:35:GLN:C	1:A:263:PRO:HB3	2.21	0.66
1:A:128:PRO:HG2	1:A:129:THR:OG1	1.96	0.66
1:A:201:ALA:CA	1:A:204:SER:HB3	2.24	0.66
1:A:334:ARG:HG3	1:A:335:PRO:HD2	1.78	0.66
1:A:501:VAL:HB	1:A:518:LEU:CD1	2.17	0.66
1:A:503:VAL:CG2	1:A:519:VAL:HB	2.23	0.66
1:A:597:ILE:HD13	1:A:598:ARG:HD3	1.76	0.66
1:B:119:LYS:HZ3	1:B:217:LYS:CB	2.07	0.66
1:B:270:ASP:N	1:B:270:ASP:OD1	2.29	0.66
1:B:396:ARG:CD	1:B:612:LEU:CD2	2.57	0.66
1:B:501:VAL:CG1	1:B:502:VAL:H	2.03	0.66
1:B:642:GLU:CG	1:B:645:ARG:HH12	2.02	0.66
1:B:721:HIS:HD2	1:B:757:GLY:CA	2.09	0.66
1:A:346:THR:CG2	1:A:359:VAL:O	2.18	0.66
1:A:355:PRO:HG3	1:A:529:PRO:CG	2.25	0.66
1:A:361:TYR:CG	1:A:362:GLU:N	2.52	0.66
1:A:498:ASN:HB3	1:A:522:VAL:HG11	1.77	0.66
1:A:532:TYR:HE1	1:A:541:ARG:NH1	1.93	0.66
1:A:589:TYR:CE2	1:A:591:ASP:HB2	2.31	0.66
1:A:732:LEU:C	1:A:738:LEU:HD11	2.12	0.66
1:B:36:LEU:CB	1:B:37:PRO:CD	2.74	0.66
1:B:184:TYR:O	1:B:187:VAL:HG23	1.95	0.66
1:B:600:LYS:HE3	1:B:707:LEU:CD2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:LEU:HD23	1:A:39:GLN:CA	2.27	0.65
1:A:234:THR:C	1:A:237:PHE:H	2.02	0.65
1:A:259:ARG:O	1:A:266:PRO:HG3	1.95	0.65
1:A:298:VAL:HG21	1:A:515:SER:CA	2.26	0.65
1:A:386:PHE:CE1	1:A:576:HIS:CD2	2.84	0.65
1:A:386:PHE:CZ	1:A:576:HIS:CD2	2.85	0.65
1:A:723:ILE:HD13	1:A:723:ILE:O	1.96	0.65
1:B:4:LEU:HA	1:B:5:LYS:CG	2.16	0.65
1:B:125:LYS:H	1:B:165:LEU:CG	2.09	0.65
1:B:209:MET:N	1:B:209:MET:HE2	2.12	0.65
1:A:272:SER:CB	1:A:275:LEU:HD13	2.26	0.65
1:A:653:THR:CG2	1:A:655:ARG:HG3	2.26	0.65
1:B:37:PRO:O	1:B:261:TRP:HZ3	1.78	0.65
1:B:96:THR:HG23	1:B:237:PHE:CG	2.31	0.65
1:B:107:THR:CA	1:B:110:ILE:HG13	2.26	0.65
1:B:215:LYS:HA	1:B:215:LYS:NZ	2.11	0.65
1:B:581:HIS:HD2	1:B:582:GLU:N	1.93	0.65
1:B:681:ILE:HG22	1:B:731:VAL:HG11	0.67	0.65
1:B:710:ASP:OD1	1:B:710:ASP:N	2.24	0.65
1:B:715:HIS:HA	1:B:719:ASN:HB3	1.78	0.65
1:A:40:PHE:HE2	1:A:291:PHE:H	1.41	0.65
1:A:87:ASN:OD1	1:A:191:ARG:CZ	2.43	0.65
1:A:106:LEU:CD2	1:A:135:LEU:HD21	2.17	0.65
1:A:129:THR:O	1:A:132:LEU:HB3	1.96	0.65
1:A:176:ARG:NH1	1:A:446:GLU:CB	2.58	0.65
1:A:195:LEU:HD21	1:A:199:LEU:HG	1.67	0.65
1:A:630:HIS:CA	1:A:737:LEU:CD1	2.72	0.65
1:A:643:ASP:C	1:A:646:THR:HG1	2.00	0.65
1:A:747:THR:HA	1:A:750:LEU:CD2	2.27	0.65
1:A:748:LYS:HA	1:A:748:LYS:HZ3	1.59	0.65
1:A:751:GLY:O	1:A:754:ASN:C	2.39	0.65
1:B:14:ARG:CD	1:B:26:LYS:HD2	2.26	0.65
1:B:52:LEU:HD13	1:B:53:LEU:H	1.61	0.65
1:B:127:PRO:N	1:B:128:PRO:N	2.44	0.65
1:B:186:LEU:HD12	1:B:186:LEU:H	1.61	0.65
1:B:329:SER:OG	1:B:331:PHE:HB2	1.97	0.65
1:B:467:VAL:HG23	1:B:479:LEU:HD11	1.69	0.65
1:B:486:TYR:O	1:B:490:VAL:HG23	1.97	0.65
1:A:87:ASN:CG	1:A:191:ARG:NH1	2.53	0.65
1:A:164:ILE:O	1:A:165:LEU:HD22	1.95	0.65
1:A:190:VAL:CG1	1:A:249:VAL:HG21	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:ASN:O	1:A:385:ARG:HG3	1.96	0.65
1:B:68:ARG:HH12	1:B:328:VAL:C	2.04	0.65
1:B:396:ARG:CD	1:B:612:LEU:O	2.45	0.65
1:B:408:PHE:CZ	1:B:633:ILE:HG12	2.32	0.65
1:B:651:ARG:NE	1:B:660:LYS:HG2	2.11	0.65
1:A:300:GLN:H	1:A:300:GLN:HE21	1.45	0.65
1:A:758:MET:HB3	1:A:759:VAL:CA	2.26	0.65
1:B:61:ILE:HG22	1:B:62:ASP:N	2.06	0.65
1:B:191:ARG:HB2	1:B:191:ARG:HH11	1.62	0.65
1:B:198:MET:O	1:B:202:LEU:HD13	1.97	0.65
1:B:201:ALA:HA	1:B:204:SER:OG	1.96	0.65
1:B:260:LEU:HD13	1:B:260:LEU:C	2.20	0.65
1:B:359:VAL:HG22	1:B:418:THR:HG22	1.79	0.65
1:B:590:GLU:CB	1:B:607:LYS:HD2	2.26	0.65
1:B:719:ASN:ND2	1:B:720:ARG:HG3	2.11	0.65
1:A:2:PHE:CE1	1:A:459:ILE:HG23	2.30	0.65
1:A:6:VAL:O	1:A:9:LEU:HD22	1.97	0.65
1:A:351:HIS:C	1:A:353:GLY:CA	2.70	0.65
1:A:352:MET:H	1:A:353:GLY:HA2	1.56	0.65
1:A:624:LEU:CB	1:A:626:PRO:HG3	2.26	0.65
1:A:659:GLU:O	1:A:663:ILE:HG23	1.96	0.65
1:A:690:ALA:HA	1:A:693:LEU:CD2	2.27	0.65
1:B:13:ALA:HB1	1:B:16:LEU:HD22	1.79	0.65
1:B:47:SER:H	1:B:332:LYS:HZ3	1.44	0.65
1:B:233:ALA:O	1:B:236:ALA:HB3	1.96	0.65
1:B:575:ILE:CG2	1:B:576:HIS:HB2	2.27	0.65
1:A:24:GLU:OE2	1:A:508:GLY:HA2	1.96	0.65
1:A:356:SER:C	1:A:437:MET:HE2	2.21	0.65
1:A:493:TYR:OH	1:A:546:LEU:HD13	1.97	0.65
1:A:34:LEU:HB3	1:A:503:VAL:O	1.96	0.65
1:A:110:ILE:C	1:A:112:GLY:N	2.30	0.65
1:A:154:VAL:O	1:A:158:LEU:HB2	1.97	0.65
1:A:289:ALA:C	1:A:291:PHE:N	2.45	0.65
1:A:297:MET:HE3	1:A:297:MET:C	2.22	0.65
1:A:472:GLU:N	1:A:475:ALA:HB3	2.12	0.65
1:A:527:ARG:CZ	1:A:528:ILE:CD1	2.68	0.65
1:A:535:ILE:HG13	1:A:535:ILE:O	1.96	0.65
1:A:541:ARG:HE	1:A:541:ARG:H	1.45	0.65
1:B:69:LEU:CD1	1:B:172:TYR:CE1	2.80	0.65
1:B:131:ILE:CD1	1:B:134:GLN:HB3	2.26	0.65
1:B:141:SER:HB3	1:B:147:HIS:HB2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:255:THR:C	1:B:259:ARG:HH11	2.04	0.65
1:B:312:GLU:HG3	1:B:313:LEU:HG	1.78	0.65
1:B:321:PHE:CZ	1:B:326:SER:OG	2.47	0.65
1:B:339:THR:HG21	1:B:496:ALA:HB2	1.79	0.65
1:B:371:THR:OG1	1:B:623:ILE:CD1	2.45	0.65
1:A:24:GLU:HA	1:A:26:LYS:CG	2.26	0.65
1:A:34:LEU:HG	1:A:35:GLN:CB	2.27	0.65
1:A:40:PHE:HD1	1:A:41:THR:N	1.95	0.65
1:A:56:VAL:HG12	1:A:152:ASP:OD2	1.97	0.65
1:A:498:ASN:HB3	1:A:522:VAL:HG12	1.78	0.65
1:A:729:LEU:HD13	1:A:729:LEU:O	1.97	0.65
1:B:49:THR:HG23	1:B:176:ARG:CB	2.27	0.65
1:B:259:ARG:C	1:B:269:LEU:HD11	2.22	0.65
1:B:346:THR:O	1:B:358:VAL:O	2.14	0.65
1:B:385:ARG:C	1:B:386:PHE:CD1	2.74	0.65
1:B:408:PHE:CB	1:B:632:ILE:HD11	2.26	0.65
1:B:702:MET:HE2	1:B:702:MET:CA	2.27	0.65
1:A:173:ARG:CG	1:A:579:PRO:HG3	2.25	0.65
1:A:262:SER:O	1:A:263:PRO:O	2.14	0.65
1:A:348:ALA:O	1:A:349:ILE:O	2.15	0.65
1:A:510:ALA:HB1	1:A:511:ALA:CB	2.27	0.65
1:A:542:THR:CG2	1:A:544:GLU:HB3	2.26	0.65
1:A:547:GLU:HA	1:A:550:ALA:HB2	1.78	0.65
1:A:729:LEU:CD2	1:A:738:LEU:CD1	2.75	0.65
1:B:4:LEU:HB3	1:B:5:LYS:CB	2.20	0.65
1:B:132:LEU:C	1:B:132:LEU:HD23	2.22	0.65
1:B:173:ARG:CG	1:B:566:LEU:CD1	2.74	0.65
1:B:309:SER:OG	1:B:315:SER:HB2	1.93	0.65
1:B:322:ILE:HG23	1:B:323:GLU:OE1	1.97	0.65
1:B:408:PHE:CE1	1:B:633:ILE:CD1	2.80	0.65
1:A:20:PHE:HD1	1:A:299:LYS:NZ	1.96	0.64
1:A:547:GLU:C	1:A:550:ALA:H	2.05	0.64
1:A:732:LEU:CA	1:A:738:LEU:HD21	2.27	0.64
1:B:173:ARG:HG3	1:B:566:LEU:HD12	1.79	0.64
1:B:245:ASP:CG	1:B:248:ALA:CA	2.69	0.64
1:B:426:GLN:HE22	1:B:427:ARG:HE	1.45	0.64
1:B:582:GLU:OE1	1:B:624:LEU:HD13	1.97	0.64
1:B:650:ALA:O	1:B:654:SER:N	2.28	0.64
1:A:40:PHE:HD2	1:A:291:PHE:CB	2.02	0.64
1:A:170:TYR:HA	1:A:576:HIS:HE1	1.60	0.64
1:A:234:THR:CG2	1:A:237:PHE:HB3	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:417:ARG:HG3	1:A:643:ASP:CG	2.21	0.64
1:A:605:GLU:HG2	1:A:607:LYS:NZ	2.12	0.64
1:B:84:GLU:HA	1:B:87:ASN:ND2	2.11	0.64
1:B:103:TRP:HE1	1:B:231:ASN:HA	1.62	0.64
1:B:173:ARG:CG	1:B:566:LEU:HD12	2.26	0.64
1:B:192:ALA:CB	1:B:328:VAL:HG21	2.27	0.64
1:B:255:THR:O	1:B:259:ARG:HD3	1.98	0.64
1:B:527:ARG:N	1:B:527:ARG:HD2	2.13	0.64
1:B:620:ARG:C	1:B:621:VAL:HG22	2.23	0.64
1:B:705:ARG:O	1:B:709:ASP:HB2	1.97	0.64
1:A:213:THR:HG21	1:A:220:LEU:HD22	1.80	0.64
1:A:442:PRO:CD	1:A:443:SER:H	2.10	0.64
1:A:505:GLU:CD	1:A:507:GLN:HA	2.23	0.64
1:A:654:SER:HB3	1:A:659:GLU:OE2	1.96	0.64
1:A:685:GLY:HA2	1:A:687:GLY:N	2.11	0.64
1:B:190:VAL:CG1	1:B:323:GLU:CB	2.70	0.64
1:B:282:ASP:HA	1:B:285:ARG:CG	2.27	0.64
1:B:314:SER:OG	1:B:319:PRO:HD2	1.97	0.64
1:B:317:ILE:C	1:B:319:PRO:HD2	2.22	0.64
1:A:6:VAL:CG1	1:A:531:GLY:H	2.07	0.64
1:A:126:VAL:O	1:A:165:LEU:C	2.41	0.64
1:A:293:ALA:HA	1:A:296:ASP:CG	2.22	0.64
1:A:491:MET:HE1	1:A:520:TRP:CH2	2.32	0.64
1:A:520:TRP:CE2	1:A:545:PRO:HG3	2.32	0.64
1:A:524:THR:CB	1:A:539:SER:HA	2.26	0.64
1:A:544:GLU:HG2	1:A:547:GLU:CG	2.28	0.64
1:A:746:LEU:O	1:A:747:THR:C	2.41	0.64
1:B:45:SER:HA	1:B:181:PRO:HG3	1.79	0.64
1:B:171:VAL:CG2	1:B:575:ILE:HD13	2.26	0.64
1:B:183:PHE:CD1	1:B:250:VAL:HG12	2.32	0.64
1:B:246:ALA:HA	1:B:249:VAL:HG12	1.80	0.64
1:B:297:MET:HE3	1:B:301:ARG:HH21	1.62	0.64
1:B:400:THR:HG21	1:B:686:ILE:CD1	2.27	0.64
1:B:533:ASN:ND2	1:B:551:TYR:HE2	1.94	0.64
1:B:602:TYR:HE2	1:B:714:LEU:HD11	1.62	0.64
1:B:754:ASN:N	1:B:754:ASN:OD1	2.30	0.64
1:A:52:LEU:O	1:A:174:VAL:N	2.31	0.64
1:A:60:ASN:OD1	1:A:156:HIS:O	2.15	0.64
1:A:346:THR:CB	1:A:359:VAL:N	2.61	0.64
1:A:361:TYR:O	1:A:362:GLU:CB	2.46	0.64
1:A:503:VAL:HG13	1:A:504:SER:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:THR:CG2	1:A:539:SER:C	2.70	0.64
1:A:566:LEU:HD11	1:A:568:LEU:HD12	1.79	0.64
1:A:568:LEU:O	1:A:572:THR:N	2.27	0.64
1:A:591:ASP:O	1:A:606:VAL:N	2.29	0.64
1:A:649:ALA:HA	1:A:652:ARG:HG3	1.78	0.64
1:B:51:GLU:HB2	1:B:564:LYS:NZ	2.13	0.64
1:B:71:PHE:HE2	1:B:329:SER:CB	2.09	0.64
1:B:182:ASN:O	1:B:185:ALA:N	2.31	0.64
1:B:183:PHE:CD2	1:B:184:TYR:CE1	2.86	0.64
1:B:209:MET:HG3	1:B:225:ILE:HG22	1.78	0.64
1:B:415:LYS:CE	1:B:416:ASN:HA	2.11	0.64
1:B:510:ALA:HB3	1:B:511:ALA:HA	1.77	0.64
1:B:510:ALA:HB3	1:B:511:ALA:O	1.98	0.64
1:B:540:ILE:CD1	1:B:552:ASN:OD1	2.45	0.64
1:B:564:LYS:O	1:B:565:VAL:HG22	1.97	0.64
1:B:755:ALA:O	1:B:758:MET:HG3	1.97	0.64
1:A:56:VAL:HG22	1:A:66:TYR:HE1	1.61	0.64
1:A:349:ILE:HG13	1:A:350:ASP:N	2.03	0.64
1:A:404:ILE:HD13	1:A:681:ILE:CD1	2.26	0.64
1:A:540:ILE:HG22	1:A:541:ARG:HE	1.62	0.64
1:A:544:GLU:HB3	1:A:545:PRO:C	2.22	0.64
1:A:593:TYR:HB3	1:A:726:TRP:NE1	2.13	0.64
1:B:22:ILE:HG13	1:B:516:LEU:O	1.97	0.64
1:B:341:SER:HB2	1:B:558:SER:HB3	1.79	0.64
1:B:371:THR:CB	1:B:623:ILE:HG12	2.28	0.64
1:B:564:LYS:O	1:B:565:VAL:HG13	1.97	0.64
1:B:670:ASN:CG	1:B:749:VAL:HG11	2.19	0.64
1:B:702:MET:CE	1:B:714:LEU:HG	2.28	0.64
1:A:51:GLU:HA	1:A:174:VAL:HG21	1.79	0.64
1:A:164:ILE:O	1:A:165:LEU:HD13	1.97	0.64
1:A:213:THR:CB	1:A:215:LYS:HZ2	2.10	0.64
1:A:217:LYS:HG3	1:A:218:GLY:N	2.12	0.64
1:A:439:LEU:HG	1:A:439:LEU:O	1.96	0.64
1:A:597:ILE:HD11	1:A:600:LYS:HD3	1.80	0.64
1:B:96:THR:HG23	1:B:237:PHE:CB	2.28	0.64
1:B:146:PHE:O	1:B:150:THR:N	2.22	0.64
1:B:354:GLN:HG3	1:B:528:ILE:CG2	2.27	0.64
1:B:361:TYR:HB3	1:B:414:VAL:CG2	2.26	0.64
1:B:384:GLN:HA	1:B:577:ILE:HG22	1.80	0.64
1:B:424:VAL:O	1:B:425:SER:HB2	1.97	0.64
1:A:195:LEU:HD23	1:A:199:LEU:CG	2.19	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:ARG:O	1:A:197:ARG:CZ	2.46	0.64
1:A:244:PHE:CD2	1:A:317:ILE:HD11	2.33	0.64
1:A:435:ALA:CB	1:A:437:MET:HE3	2.27	0.64
1:B:53:LEU:CD2	1:B:571:HIS:HE1	1.75	0.64
1:B:63:PRO:HB3	1:B:199:LEU:HB2	1.80	0.64
1:B:143:HIS:HB3	1:B:145:LEU:HD21	1.80	0.64
1:B:404:ILE:CD1	1:B:737:LEU:HD22	2.04	0.64
1:B:505:GLU:HB2	1:B:506:HIS:C	2.22	0.64
1:B:597:ILE:HB	1:B:714:LEU:HA	1.78	0.64
1:B:619:GLU:HB3	1:B:620:ARG:HA	1.78	0.64
1:B:705:ARG:HB2	1:B:707:LEU:CD1	2.28	0.64
1:A:64:VAL:HG11	1:A:196:ARG:NE	2.12	0.64
1:A:101:GLU:CD	1:A:101:GLU:H	2.06	0.64
1:A:232:ALA:O	1:A:236:ALA:CA	2.46	0.64
1:A:343:ILE:O	1:A:557:PRO:HB3	1.96	0.64
1:A:378:LEU:H	1:A:378:LEU:HD12	1.61	0.64
1:A:417:ARG:C	1:A:420:VAL:HB	2.22	0.64
1:A:457:VAL:O	1:A:460:ALA:N	2.31	0.64
1:A:520:TRP:O	1:A:542:THR:N	2.31	0.64
1:B:182:ASN:ND2	1:B:183:PHE:H	1.96	0.64
1:B:332:LYS:HZ2	1:B:332:LYS:HB3	1.61	0.64
1:B:628:VAL:HA	1:B:631:ALA:CB	2.28	0.64
1:A:9:LEU:HD11	1:A:547:GLU:OE2	1.98	0.64
1:A:38:LEU:N	1:A:501:VAL:HB	2.13	0.64
1:A:487:TYR:O	1:A:490:VAL:HG22	1.98	0.64
1:A:583:ALA:O	1:A:625:LYS:HE3	1.97	0.64
1:A:732:LEU:HG	1:A:738:LEU:HD22	1.55	0.64
1:B:24:GLU:O	1:B:25:LEU:HD22	1.97	0.64
1:B:123:VAL:CA	1:B:163:PHE:HD2	2.12	0.64
1:B:128:PRO:HA	1:B:131:ILE:N	2.13	0.64
1:B:364:TRP:CZ2	1:B:628:VAL:HG22	2.33	0.64
1:B:426:GLN:NE2	1:B:427:ARG:HE	1.95	0.64
1:A:38:LEU:H	1:A:501:VAL:HB	1.64	0.63
1:A:39:GLN:HG2	1:A:499:PRO:CB	2.16	0.63
1:A:186:LEU:HD12	1:A:186:LEU:N	2.13	0.63
1:A:187:VAL:C	1:A:190:VAL:HG23	2.22	0.63
1:A:422:GLU:OE2	1:B:116:ARG:HG3	1.98	0.63
1:A:581:HIS:CE1	1:A:584:SER:HA	2.32	0.63
1:A:689:SER:O	1:A:693:LEU:HD13	1.98	0.63
1:B:136:ARG:HD3	1:B:147:HIS:CD2	2.33	0.63
1:B:204:SER:O	1:B:208:LYS:CB	2.40	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:272:SER:O	1:B:276:ARG:HB2	1.98	0.63
1:B:368:LYS:HD3	1:B:369:GLU:CD	2.22	0.63
1:B:566:LEU:O	1:B:566:LEU:HD23	1.98	0.63
1:B:570:ASN:HD22	1:B:571:HIS:N	1.96	0.63
1:B:578:TRP:CD1	1:B:579:PRO:HD2	2.33	0.63
1:B:606:VAL:HG22	1:B:607:LYS:O	1.98	0.63
1:B:623:ILE:O	1:B:625:LYS:HG3	1.97	0.63
1:A:133:GLU:HA	1:A:136:ARG:HB3	1.80	0.63
1:A:281:ILE:CD1	1:A:282:ASP:N	2.61	0.63
1:A:286:SER:C	1:A:288:LEU:H	2.07	0.63
1:A:349:ILE:HG23	1:A:353:GLY:O	1.98	0.63
1:A:689:SER:O	1:A:693:LEU:HD22	1.97	0.63
1:B:102:ILE:HG13	1:B:103:TRP:HE3	1.61	0.63
1:B:377:LYS:CA	1:B:385:ARG:CD	2.76	0.63
1:B:400:THR:CG2	1:B:686:ILE:HG23	2.29	0.63
1:B:625:LYS:H	1:B:625:LYS:CE	2.10	0.63
1:A:115:ASN:O	1:A:116:ARG:CD	2.45	0.63
1:A:510:ALA:HB3	1:A:511:ALA:HB2	1.79	0.63
1:A:530:VAL:HG22	1:A:531:GLY:N	2.12	0.63
1:A:666:ARG:C	1:A:668:MET:N	2.53	0.63
1:B:362:GLU:CA	1:B:441:PHE:HA	2.24	0.63
1:A:128:PRO:HG3	1:A:166:PRO:O	1.99	0.63
1:A:143:HIS:C	1:A:145:LEU:HD12	2.23	0.63
1:A:190:VAL:HG21	1:A:246:ALA:O	1.98	0.63
1:B:5:LYS:HA	1:B:435:ALA:N	2.07	0.63
1:B:131:ILE:C	1:B:133:GLU:N	2.53	0.63
1:B:364:TRP:HB3	1:B:410:VAL:CG1	2.27	0.63
1:B:602:TYR:HB3	1:B:701:GLN:HB3	1.81	0.63
1:A:92:TYR:O	1:A:95:SER:OG	2.17	0.63
1:A:716:VAL:HG22	1:B:378:LEU:HD13	1.76	0.63
1:B:14:ARG:NH2	1:B:17:THR:HG21	2.13	0.63
1:B:47:SER:H	1:B:332:LYS:NZ	1.96	0.63
1:B:101:GLU:HA	1:B:104:ARG:HB3	1.81	0.63
1:B:118:ILE:N	1:B:222:PRO:CG	2.60	0.63
1:B:476:SER:O	1:B:479:LEU:HB3	1.98	0.63
1:B:522:VAL:CB	1:B:540:ILE:HG13	2.22	0.63
1:B:587:PHE:C	1:B:622:ARG:HE	2.06	0.63
1:A:42:ARG:O	1:A:289:ALA:CA	2.45	0.63
1:A:237:PHE:O	1:A:240:SER:OG	2.13	0.63
1:A:404:ILE:HD12	1:A:681:ILE:HG21	1.81	0.63
1:A:408:PHE:HB3	1:A:636:TRP:HD1	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:43:THR:HG21	1:B:287:ASN:CB	2.28	0.63
1:B:171:VAL:CG1	1:B:577:ILE:C	2.72	0.63
1:B:172:TYR:CD1	1:B:173:ARG:N	2.67	0.63
1:B:199:LEU:O	1:B:202:LEU:CA	2.46	0.63
1:B:224:LEU:O	1:B:227:GLN:HB3	1.98	0.63
1:B:228:HIS:CD2	1:B:231:ASN:HD22	2.09	0.63
1:B:236:ALA:HA	1:B:239:ARG:CB	2.28	0.63
1:B:703:ALA:CA	1:B:708:ILE:CD1	2.76	0.63
1:A:287:ASN:O	1:A:288:LEU:C	2.42	0.63
1:A:342:TYR:HA	1:A:559:GLU:CB	2.28	0.63
1:A:371:THR:HA	1:A:394:SER:HB3	1.80	0.63
1:A:444:VAL:CG2	1:A:445:VAL:H	2.08	0.63
1:B:57:GLY:C	1:B:58:LYS:HE2	2.23	0.63
1:B:69:LEU:HG	1:B:172:TYR:CE2	2.33	0.63
1:B:535:ILE:HG21	1:B:538:GLY:C	2.22	0.63
1:B:685:GLY:O	1:B:688:ALA:N	2.31	0.63
1:A:6:VAL:CG1	1:A:531:GLY:HA2	2.22	0.63
1:A:38:LEU:HD23	1:A:39:GLN:O	1.96	0.63
1:A:119:LYS:HB2	1:A:119:LYS:HZ3	1.63	0.63
1:A:159:SER:HA	1:A:164:ILE:N	2.12	0.63
1:A:181:PRO:HB2	1:A:484:PHE:CG	2.33	0.63
1:A:303:ARG:NH1	1:A:513:GLN:CG	2.62	0.63
1:A:410:VAL:HG13	1:A:411:SER:H	1.64	0.63
1:A:664:ASP:O	1:A:668:MET:SD	2.57	0.63
1:B:500:GLU:O	1:B:520:TRP:HB3	1.99	0.63
1:B:540:ILE:CG1	1:B:551:TYR:HB2	2.29	0.63
1:B:590:GLU:CA	1:B:608:GLU:CB	2.43	0.63
1:B:597:ILE:HD12	1:B:713:ASP:CB	2.28	0.63
1:B:607:LYS:N	1:B:609:PHE:CG	2.67	0.63
1:B:705:ARG:HB2	1:B:707:LEU:HD13	1.81	0.63
1:A:24:GLU:HA	1:A:26:LYS:HG2	1.79	0.63
1:A:30:SER:O	1:A:31:VAL:CG1	2.43	0.63
1:A:234:THR:C	1:A:237:PHE:CB	2.52	0.63
1:A:258:GLY:CA	1:A:294:TYR:HD2	2.11	0.63
1:A:673:THR:O	1:A:677:LYS:HE2	1.99	0.63
1:A:718:ILE:O	1:A:719:ASN:C	2.42	0.63
1:B:24:GLU:HA	1:B:506:HIS:CE1	2.34	0.63
1:B:125:LYS:C	1:B:165:LEU:HD22	2.23	0.63
1:B:321:PHE:HD1	1:B:322:ILE:N	1.73	0.63
1:B:712:SER:HG	1:B:715:HIS:CG	2.17	0.63
1:A:359:VAL:HA	1:A:438:THR:C	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:THR:O	1:A:653:THR:HG22	1.99	0.62
1:A:698:ILE:HG12	1:A:702:MET:HE1	1.81	0.62
1:B:35:GLN:HG2	1:B:502:VAL:CG2	2.27	0.62
1:B:57:GLY:N	1:B:148:HIS:HE1	1.97	0.62
1:B:103:TRP:C	1:B:107:THR:HG1	1.97	0.62
1:B:214:PHE:C	1:B:220:LEU:HD13	2.23	0.62
1:B:416:ASN:O	1:B:419:ALA:HB3	1.98	0.62
1:B:670:ASN:HD21	1:B:674:LEU:HD12	1.57	0.62
1:B:685:GLY:O	1:B:686:ILE:O	2.17	0.62
1:A:5:LYS:HB3	1:A:433:ASN:HD22	1.65	0.62
1:A:337:ASN:ND2	1:A:496:ALA:HB1	2.11	0.62
1:A:523:ARG:HA	1:A:539:SER:HB2	1.80	0.62
1:A:735:MET:HB3	1:A:737:LEU:O	1.99	0.62
1:B:54:TRP:CD1	1:B:69:LEU:CD2	2.80	0.62
1:B:68:ARG:HH11	1:B:68:ARG:HG3	1.64	0.62
1:B:288:LEU:O	1:B:292:ILE:HD12	1.98	0.62
1:B:326:SER:C	1:B:327:GLU:OE1	2.42	0.62
1:B:376:VAL:H	1:B:386:PHE:N	1.96	0.62
1:B:456:MET:HG3	1:B:457:VAL:N	2.12	0.62
1:B:642:GLU:HG2	1:B:645:ARG:NH1	2.12	0.62
1:A:49:THR:O	1:A:50:SER:OG	2.17	0.62
1:A:82:VAL:C	1:A:85:LEU:HD23	2.24	0.62
1:A:154:VAL:O	1:A:158:LEU:HD13	1.97	0.62
1:A:493:TYR:CE1	1:A:549:ILE:HG13	2.34	0.62
1:A:633:ILE:HD11	1:A:737:LEU:HD12	1.80	0.62
1:B:49:THR:HG23	1:B:176:ARG:HB3	1.81	0.62
1:B:521:ASN:HB2	1:B:541:ARG:CD	2.21	0.62
1:B:640:PHE:CA	1:B:670:ASN:OD1	2.47	0.62
1:B:707:LEU:HD22	1:B:708:ILE:N	2.14	0.62
1:A:143:HIS:O	1:A:144:GLU:O	2.17	0.62
1:A:144:GLU:OE1	1:A:145:LEU:N	2.33	0.62
1:A:157:VAL:O	1:A:160:PRO:HD2	1.99	0.62
1:A:346:THR:CG2	1:A:360:VAL:N	2.50	0.62
1:A:372:ALA:N	1:A:394:SER:OG	2.32	0.62
1:B:34:LEU:C	1:B:34:LEU:HD12	2.24	0.62
1:B:82:VAL:HG23	1:B:188:ASP:HB3	1.81	0.62
1:B:132:LEU:HD11	1:B:150:THR:CB	2.26	0.62
1:B:180:TYR:OH	1:B:492:HIS:ND1	1.82	0.62
1:B:234:THR:C	1:B:237:PHE:H	2.07	0.62
1:B:291:PHE:CE2	1:B:503:VAL:HG21	2.34	0.62
1:B:552:ASN:C	1:B:553:LYS:HD3	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:ILE:CG2	1:A:156:HIS:NE2	2.32	0.62
1:A:252:SER:O	1:A:256:ILE:HG12	1.98	0.62
1:A:336:ILE:O	1:A:340:THR:HG23	1.99	0.62
1:A:502:VAL:HG22	1:A:503:VAL:C	2.23	0.62
1:A:747:THR:O	1:A:750:LEU:HG	1.99	0.62
1:A:748:LYS:O	1:A:748:LYS:HD3	1.99	0.62
1:A:758:MET:HE1	1:A:760:VAL:O	2.00	0.62
1:B:92:TYR:HB2	1:B:146:PHE:CE2	2.34	0.62
1:B:96:THR:CG2	1:B:237:PHE:CD2	2.83	0.62
1:B:298:VAL:HG13	1:B:302:GLY:O	1.99	0.62
1:B:426:GLN:CB	1:B:427:ARG:HA	2.28	0.62
1:B:587:PHE:C	1:B:622:ARG:NE	2.57	0.62
1:B:663:ILE:HD12	1:B:664:ASP:N	2.15	0.62
1:A:40:PHE:O	1:A:41:THR:HG22	2.00	0.62
1:A:45:SER:HB3	1:A:332:LYS:HA	1.80	0.62
1:A:67:ALA:HA	1:A:70:PHE:HB2	1.81	0.62
1:A:250:VAL:O	1:A:253:VAL:HG12	1.99	0.62
1:A:263:PRO:HG2	1:A:504:SER:HA	1.81	0.62
1:A:424:VAL:HG12	1:A:425:SER:O	1.98	0.62
1:A:528:ILE:HG22	1:A:530:VAL:CG1	2.29	0.62
1:A:637:TYR:OH	1:A:745:ALA:HB2	1.91	0.62
1:A:657:ASP:HA	1:A:660:LYS:HE3	1.81	0.62
1:A:677:LYS:HA	1:A:680:MET:HG3	1.80	0.62
1:A:687:GLY:O	1:A:688:ALA:C	2.42	0.62
1:A:721:HIS:HE1	1:A:760:VAL:HG13	1.64	0.62
1:B:245:ASP:OD1	1:B:248:ALA:N	2.18	0.62
1:A:200:THR:O	1:A:203:SER:HB3	2.00	0.62
1:A:237:PHE:HA	1:A:240:SER:OG	1.99	0.62
1:A:274:ARG:HH11	1:A:274:ARG:CG	2.12	0.62
1:A:343:ILE:H	1:A:559:GLU:CG	2.12	0.62
1:A:731:VAL:HG13	1:A:732:LEU:N	2.14	0.62
1:A:756:LEU:O	1:A:756:LEU:CG	2.47	0.62
1:B:2:PHE:CZ	1:B:4:LEU:CD2	2.76	0.62
1:B:46:ALA:CB	1:B:178:ALA:O	2.47	0.62
1:B:68:ARG:CZ	1:B:68:ARG:HB2	2.30	0.62
1:B:235:THR:C	1:B:239:ARG:HG3	2.24	0.62
1:B:408:PHE:CE1	1:B:413:PHE:HZ	2.17	0.62
1:B:472:GLU:O	1:B:475:ALA:N	2.32	0.62
1:B:540:ILE:CG2	1:B:542:THR:HG22	2.22	0.62
1:B:696:SER:CA	1:B:699:VAL:HG23	2.23	0.62
1:A:374:THR:HG23	1:A:390:GLU:CG	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:676:ARG:O	1:A:679:GLU:HG2	2.00	0.62
1:B:43:THR:HG22	1:B:289:ALA:HB2	1.81	0.62
1:B:79:ALA:HB1	1:B:80:LEU:HD23	1.78	0.62
1:B:80:LEU:HG	1:B:84:GLU:HG3	1.80	0.62
1:B:123:VAL:HG22	1:B:124:GLY:N	2.14	0.62
1:B:272:SER:HG	1:B:275:LEU:H	1.41	0.62
1:B:361:TYR:HB3	1:B:414:VAL:CB	2.30	0.62
1:B:401:LEU:C	1:B:404:ILE:HG13	2.24	0.62
1:B:448:ASP:O	1:B:453:ARG:HD3	2.00	0.62
1:B:595:VAL:CG2	1:B:714:LEU:HD22	2.28	0.62
1:B:651:ARG:HE	1:B:660:LYS:CG	2.12	0.62
1:B:686:ILE:C	1:B:688:ALA:N	2.55	0.62
1:A:16:LEU:HD12	1:A:463:ARG:HA	1.80	0.62
1:A:62:ASP:OD2	1:A:65:MET:N	2.32	0.62
1:A:74:ALA:CB	1:A:85:LEU:HD11	2.30	0.62
1:A:105:LYS:CE	1:A:137:THR:OG1	2.46	0.62
1:A:143:HIS:C	1:A:145:LEU:CD1	2.72	0.62
1:A:297:MET:HE3	1:A:297:MET:HA	1.80	0.62
1:B:228:HIS:HA	1:B:231:ASN:CG	2.25	0.62
1:B:362:GLU:HA	1:B:440:GLY:O	2.00	0.62
1:B:498:ASN:HB3	1:B:520:TRP:CE3	2.35	0.62
1:B:651:ARG:HE	1:B:660:LYS:HG3	1.63	0.62
1:A:291:PHE:C	1:A:292:ILE:HG13	2.25	0.62
1:A:439:LEU:HA	1:A:441:PHE:CZ	2.35	0.62
1:A:530:VAL:HG11	1:A:551:TYR:OH	1.99	0.62
1:A:685:GLY:CA	1:A:687:GLY:N	2.63	0.62
1:B:24:GLU:CA	1:B:25:LEU:HD13	2.30	0.62
1:B:316:THR:CG2	1:B:320:TRP:HE1	2.08	0.62
1:B:323:GLU:CD	1:B:324:ALA:H	2.08	0.62
1:B:705:ARG:HB3	1:B:707:LEU:HD12	1.82	0.62
1:B:707:LEU:CD1	1:B:708:ILE:H	2.00	0.62
1:A:117:ALA:C	1:A:118:ILE:CG2	2.72	0.61
1:A:119:LYS:HB2	1:A:119:LYS:HZ2	1.64	0.61
1:A:305:GLU:O	1:A:307:ILE:CG1	2.48	0.61
1:A:584:SER:HB2	1:A:625:LYS:CE	2.30	0.61
1:A:636:TRP:CE3	1:A:640:PHE:CZ	2.87	0.61
1:B:21:ALA:O	1:B:299:LYS:HB2	2.00	0.61
1:B:68:ARG:HH11	1:B:68:ARG:CG	2.13	0.61
1:B:90:THR:O	1:B:237:PHE:HE1	1.81	0.61
1:B:97:ALA:C	1:B:99:ASN:N	2.55	0.61
1:B:176:ARG:HH22	1:B:447:ARG:HA	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:272:SER:O	1:B:276:ARG:HD3	2.00	0.61
1:B:339:THR:CG2	1:B:496:ALA:HB2	2.30	0.61
1:B:362:GLU:CD	1:B:635:MET:CE	2.72	0.61
1:B:666:ARG:HA	1:B:669:GLN:CG	2.29	0.61
1:B:729:LEU:O	1:B:732:LEU:HD22	1.99	0.61
1:B:737:LEU:O	1:B:738:LEU:HD22	2.00	0.61
1:A:8:ASP:OD1	1:A:12:SER:HB2	1.99	0.61
1:A:347:SER:CB	1:A:348:ALA:CB	2.49	0.61
1:A:352:MET:SD	1:A:429:THR:HA	2.40	0.61
1:A:505:GLU:OE1	1:A:507:GLN:HA	2.00	0.61
1:A:630:HIS:CD2	1:A:737:LEU:HD11	2.35	0.61
1:B:54:TRP:CD1	1:B:69:LEU:CD1	2.79	0.61
1:B:564:LYS:C	1:B:565:VAL:HG13	2.25	0.61
1:B:676:ARG:HH11	1:B:676:ARG:CG	2.13	0.61
1:A:44:PHE:HB3	1:A:333:LEU:HD22	1.81	0.61
1:A:52:LEU:HD13	1:A:53:LEU:N	2.11	0.61
1:A:90:THR:O	1:A:94:GLN:HG2	1.98	0.61
1:A:268:GLU:CG	1:A:269:LEU:H	2.12	0.61
1:A:500:GLU:HG2	1:A:522:VAL:N	2.15	0.61
1:A:660:LYS:O	1:A:663:ILE:HG13	2.00	0.61
1:A:681:ILE:O	1:A:684:THR:HG22	2.00	0.61
1:B:23:GLY:C	1:B:506:HIS:CE1	2.75	0.61
1:B:38:LEU:HD11	1:B:501:VAL:O	2.01	0.61
1:B:408:PHE:CE2	1:B:633:ILE:HG12	2.35	0.61
1:B:593:TYR:CE2	1:B:726:TRP:HB2	2.35	0.61
1:B:607:LYS:N	1:B:609:PHE:HB2	2.15	0.61
1:B:748:LYS:HG2	1:B:749:VAL:N	2.15	0.61
1:A:40:PHE:HB2	1:A:288:LEU:C	1.96	0.61
1:A:86:VAL:CG2	1:A:191:ARG:CG	2.76	0.61
1:A:184:TYR:O	1:A:187:VAL:HG23	2.00	0.61
1:A:185:ALA:HA	1:A:188:ASP:CG	2.24	0.61
1:A:218:GLY:HA2	1:A:219:ALA:CB	2.31	0.61
1:A:257:LEU:CD2	1:A:288:LEU:CD1	2.76	0.61
1:A:268:GLU:O	1:A:269:LEU:C	2.37	0.61
1:A:435:ALA:HB3	1:A:437:MET:CE	2.28	0.61
1:A:733:GLN:NE2	1:A:738:LEU:HD11	2.15	0.61
1:B:96:THR:HG23	1:B:237:PHE:CD2	2.34	0.61
1:B:239:ARG:CG	1:B:239:ARG:HH11	2.11	0.61
1:B:246:ALA:O	1:B:249:VAL:HG12	2.01	0.61
1:B:282:ASP:HA	1:B:285:ARG:HG2	1.82	0.61
1:B:377:LYS:CB	1:B:385:ARG:CD	2.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:SER:HA	1:B:414:VAL:CG1	2.31	0.61
1:B:521:ASN:HA	1:B:541:ARG:HD2	1.81	0.61
1:B:596:THR:HG23	1:B:601:ARG:CZ	2.31	0.61
1:B:623:ILE:CD1	1:B:625:LYS:CB	2.44	0.61
1:B:695:GLN:C	1:B:698:ILE:HG13	2.24	0.61
1:A:45:SER:HA	1:A:334:ARG:HB3	1.81	0.61
1:A:68:ARG:NH2	1:A:330:PRO:HD3	2.15	0.61
1:A:86:VAL:CG1	1:A:191:ARG:CG	2.65	0.61
1:A:205:VAL:HG21	1:A:239:ARG:CZ	2.30	0.61
1:A:298:VAL:HG21	1:A:515:SER:HA	1.81	0.61
1:A:377:LYS:CA	1:A:385:ARG:HA	2.30	0.61
1:A:408:PHE:CD2	1:A:636:TRP:CE2	2.59	0.61
1:A:707:LEU:HD12	1:A:707:LEU:O	2.00	0.61
1:B:178:ALA:HB2	1:B:447:ARG:HH21	1.66	0.61
1:B:376:VAL:CA	1:B:386:PHE:O	2.47	0.61
1:B:377:LYS:HA	1:B:385:ARG:CD	2.26	0.61
1:B:595:VAL:HG22	1:B:714:LEU:CD2	2.29	0.61
1:B:693:LEU:C	1:B:697:ARG:HH12	2.08	0.61
1:A:170:TYR:CE1	1:A:576:HIS:CE1	2.89	0.61
1:A:212:ALA:HB1	1:A:221:ALA:CA	2.31	0.61
1:A:425:SER:CB	1:A:426:GLN:HB3	2.30	0.61
1:A:544:GLU:CG	1:A:547:GLU:HB2	2.30	0.61
1:A:617:ARG:HD3	1:A:618:ARG:H	1.64	0.61
1:B:124:GLY:CA	1:B:165:LEU:HD11	2.29	0.61
1:A:52:LEU:C	1:A:174:VAL:HG13	2.25	0.61
1:A:493:TYR:CE1	1:A:549:ILE:CD1	2.83	0.61
1:A:750:LEU:HD12	1:A:751:GLY:CA	2.31	0.61
1:B:2:PHE:CZ	1:B:4:LEU:HD21	2.34	0.61
1:B:102:ILE:CG1	1:B:103:TRP:CE3	2.84	0.61
1:B:262:SER:HB2	1:B:269:LEU:HD21	1.83	0.61
1:B:363:ASP:OD1	1:B:561:LEU:HB3	2.01	0.61
1:B:719:ASN:O	1:B:720:ARG:C	2.43	0.61
1:A:53:LEU:HD13	1:A:171:VAL:CG1	2.31	0.61
1:A:169:ALA:O	1:A:575:ILE:HG21	2.00	0.61
1:A:227:GLN:O	1:A:231:ASN:HB3	2.01	0.61
1:A:568:LEU:H	1:A:568:LEU:HD12	1.66	0.61
1:A:636:TRP:CE3	1:A:640:PHE:CE1	2.89	0.61
1:B:86:VAL:CB	1:B:191:ARG:HG3	2.31	0.61
1:B:160:PRO:CG	1:B:161:LEU:HD22	2.22	0.61
1:A:37:PRO:CA	1:A:501:VAL:HG23	2.31	0.61
1:A:62:ASP:OD2	1:A:65:MET:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:THR:O	1:A:203:SER:CB	2.48	0.61
1:A:517:TYR:OH	1:A:543:PRO:HA	2.01	0.61
1:A:671:ALA:HB1	1:A:753:SER:O	2.01	0.61
1:B:14:ARG:CD	1:B:465:GLY:HA3	2.30	0.61
1:B:126:VAL:N	1:B:127:PRO:CD	2.38	0.61
1:B:128:PRO:CA	1:B:131:ILE:H	2.13	0.61
1:B:623:ILE:HG23	1:B:623:ILE:O	2.00	0.61
1:B:654:SER:OG	1:B:659:GLU:HG2	2.01	0.61
1:B:757:GLY:N	1:B:758:MET:HA	2.16	0.61
1:A:56:VAL:HG12	1:A:56:VAL:O	2.00	0.61
1:A:68:ARG:HG2	1:A:68:ARG:HH11	1.66	0.61
1:A:161:LEU:CD2	1:A:211:GLN:HB2	2.30	0.61
1:A:448:ASP:HB3	1:A:453:ARG:CG	2.31	0.61
1:A:520:TRP:CE2	1:A:545:PRO:CG	2.83	0.61
1:A:557:PRO:CB	1:A:558:SER:O	2.44	0.61
1:A:669:GLN:CB	1:B:123:VAL:CG1	2.77	0.61
1:B:12:SER:C	1:B:463:ARG:HA	2.26	0.61
1:B:57:GLY:N	1:B:58:LYS:HE2	2.15	0.61
1:B:61:ILE:HD11	1:B:156:HIS:HA	1.82	0.61
1:B:103:TRP:CE2	1:B:230:ALA:CB	2.83	0.61
1:B:182:ASN:O	1:B:185:ALA:CA	2.49	0.61
1:B:192:ALA:C	1:B:328:VAL:HG21	2.26	0.61
1:B:208:LYS:HA	1:B:208:LYS:HZ3	1.66	0.61
1:B:226:SER:HB3	1:B:229:LEU:HD12	1.82	0.61
1:B:259:ARG:HA	1:B:269:LEU:HD11	1.82	0.61
1:B:275:LEU:CD1	1:B:316:THR:HA	2.17	0.61
1:B:321:PHE:CE1	1:B:326:SER:OG	2.51	0.61
1:B:375:PRO:HG2	1:B:385:ARG:NH1	2.15	0.61
1:B:451:LEU:HG	1:B:453:ARG:NH2	2.14	0.61
1:B:724:ARG:HB2	1:B:724:ARG:HH11	1.65	0.61
1:A:100:PRO:CG	1:A:101:GLU:N	2.62	0.60
1:A:502:VAL:N	1:A:518:LEU:HD13	2.15	0.60
1:B:6:VAL:HG13	1:B:7:LYS:N	2.16	0.60
1:B:34:LEU:O	1:B:35:GLN:NE2	2.34	0.60
1:B:75:GLN:CD	1:B:177:THR:HB	2.25	0.60
1:B:127:PRO:C	1:B:130:ALA:HB3	2.25	0.60
1:B:181:PRO:CA	1:B:331:PHE:CZ	2.84	0.60
1:B:181:PRO:HA	1:B:331:PHE:HZ	1.66	0.60
1:B:216:ALA:HB1	1:B:217:LYS:CA	2.31	0.60
1:A:51:GLU:HA	1:A:174:VAL:HB	1.83	0.60
1:A:128:PRO:CB	1:A:168:ALA:HB2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:PHE:CE2	1:A:317:ILE:HD11	2.36	0.60
1:A:497:HIS:CD2	1:A:549:ILE:CD1	2.83	0.60
1:A:674:LEU:C	1:A:677:LYS:HE2	2.26	0.60
1:B:2:PHE:HZ	1:B:4:LEU:HD21	1.66	0.60
1:B:5:LYS:HB2	1:B:8:ASP:O	2.01	0.60
1:B:29:LEU:HB3	1:B:532:TYR:OH	2.01	0.60
1:B:84:GLU:O	1:B:88:GLN:N	2.29	0.60
1:B:103:TRP:CG	1:B:230:ALA:HB3	2.35	0.60
1:B:105:LYS:HZ2	1:B:108:ALA:CB	2.14	0.60
1:B:117:ALA:CA	1:B:222:PRO:HG2	2.30	0.60
1:B:200:THR:HG23	1:B:201:ALA:N	2.12	0.60
1:B:288:LEU:HD23	1:B:492:HIS:HD2	1.64	0.60
1:B:350:ASP:CG	1:B:430:VAL:H	2.08	0.60
1:B:352:MET:HB3	1:B:354:GLN:OE1	2.00	0.60
1:B:492:HIS:HB3	1:B:495:VAL:HB	1.83	0.60
1:B:530:VAL:O	1:B:530:VAL:HG23	1.99	0.60
1:B:590:GLU:HB2	1:B:607:LYS:HB3	1.83	0.60
1:B:757:GLY:N	1:B:758:MET:CA	2.63	0.60
1:A:81:SER:O	1:A:84:GLU:CB	2.48	0.60
1:A:82:VAL:O	1:A:83:ASP:C	2.44	0.60
1:A:544:GLU:OE2	1:A:547:GLU:HG3	1.99	0.60
1:A:617:ARG:HG2	1:A:617:ARG:NH1	2.06	0.60
1:A:638:SER:O	1:A:641:VAL:N	2.35	0.60
1:B:24:GLU:CA	1:B:506:HIS:CE1	2.84	0.60
1:B:171:VAL:HB	1:B:575:ILE:HG21	1.82	0.60
1:B:222:PRO:O	1:B:224:LEU:HD23	2.01	0.60
1:B:364:TRP:CE2	1:B:628:VAL:HG13	2.36	0.60
1:B:372:ALA:HB3	1:B:389:VAL:HG21	1.80	0.60
1:B:412:ALA:C	1:B:415:LYS:HB3	2.24	0.60
1:B:449:TYR:HE2	1:B:630:HIS:HB3	1.66	0.60
1:B:462:LEU:HD13	1:B:463:ARG:H	1.62	0.60
1:B:625:LYS:HD2	1:B:625:LYS:O	2.00	0.60
1:B:668:MET:HG2	1:B:753:SER:HB2	1.83	0.60
1:B:735:MET:HG3	1:B:737:LEU:HD13	1.80	0.60
1:A:106:LEU:CD1	1:A:135:LEU:CD2	2.75	0.60
1:A:213:THR:HG1	1:A:215:LYS:NZ	1.97	0.60
1:A:313:LEU:HB3	1:A:315:SER:C	2.10	0.60
1:A:342:TYR:HD1	1:A:362:GLU:CD	2.08	0.60
1:A:596:THR:O	1:A:597:ILE:HG22	2.02	0.60
1:A:676:ARG:CA	1:A:679:GLU:HG2	2.31	0.60
1:B:44:PHE:CZ	1:B:324:ALA:CB	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:72:GLN:O	1:B:75:GLN:N	2.35	0.60
1:B:73:TYR:CA	1:B:76:ALA:HB3	2.32	0.60
1:B:373:PHE:HE2	1:B:624:LEU:HB2	1.63	0.60
1:B:444:VAL:HB	1:B:486:TYR:CE2	2.36	0.60
1:B:462:LEU:HD13	1:B:463:ARG:CA	2.30	0.60
1:B:590:GLU:HB2	1:B:607:LYS:CB	2.30	0.60
1:B:729:LEU:CB	1:B:732:LEU:HD13	2.31	0.60
1:A:386:PHE:CE1	1:A:576:HIS:CB	2.83	0.60
1:A:436:GLU:C	1:A:438:THR:N	2.56	0.60
1:A:532:TYR:CE1	1:A:543:PRO:HD2	2.35	0.60
1:A:544:GLU:HG2	1:A:547:GLU:CB	2.31	0.60
1:A:547:GLU:O	1:A:550:ALA:HB3	2.01	0.60
1:B:40:PHE:HB3	1:B:42:ARG:CG	2.32	0.60
1:B:350:ASP:OD1	1:B:428:GLY:C	2.45	0.60
1:B:364:TRP:CZ2	1:B:628:VAL:CG2	2.85	0.60
1:B:581:HIS:CD2	1:B:582:GLU:N	2.67	0.60
1:A:107:THR:HG23	1:A:226:SER:OG	2.01	0.60
1:A:305:GLU:OE1	1:A:305:GLU:HA	2.01	0.60
1:A:491:MET:O	1:A:494:ALA:HB3	2.01	0.60
1:A:530:VAL:HG21	1:A:551:TYR:OH	2.00	0.60
1:A:648:ALA:O	1:A:652:ARG:HG2	2.01	0.60
1:B:44:PHE:CE2	1:B:324:ALA:CB	2.84	0.60
1:B:44:PHE:CD2	1:B:333:LEU:HD22	2.36	0.60
1:B:165:LEU:HB2	1:B:166:PRO:HA	1.82	0.60
1:B:404:ILE:CG1	1:B:737:LEU:HD21	2.29	0.60
1:B:426:GLN:HG2	1:B:427:ARG:HA	1.83	0.60
1:A:17:THR:O	1:A:18:GLN:HB3	2.00	0.60
1:A:37:PRO:HA	1:A:502:VAL:HB	1.83	0.60
1:A:278:THR:HG23	1:A:281:ILE:CG1	2.32	0.60
1:A:461:ALA:O	1:A:462:LEU:C	2.43	0.60
1:A:480:LYS:HD2	1:A:481:ARG:N	2.17	0.60
1:A:585:THR:HA	1:A:622:ARG:NH1	2.15	0.60
1:B:45:SER:HA	1:B:181:PRO:CG	2.30	0.60
1:B:52:LEU:CD1	1:B:53:LEU:H	2.14	0.60
1:B:92:TYR:CE2	1:B:146:PHE:HB2	2.37	0.60
1:B:178:ALA:HB2	1:B:447:ARG:CZ	2.31	0.60
1:B:216:ALA:CB	1:B:217:LYS:HB2	2.32	0.60
1:B:257:LEU:HD21	1:B:291:PHE:HA	1.82	0.60
1:B:317:ILE:HG12	1:B:320:TRP:CZ2	2.36	0.60
1:B:317:ILE:CD1	1:B:320:TRP:CZ2	2.85	0.60
1:B:410:VAL:HG12	1:B:632:ILE:HG13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:412:ALA:HA	1:B:415:LYS:HB3	1.83	0.60
1:B:487:TYR:CZ	1:B:491:MET:SD	2.94	0.60
1:B:522:VAL:O	1:B:539:SER:HA	2.00	0.60
1:B:560:VAL:O	1:B:561:LEU:HG	2.01	0.60
1:B:632:ILE:O	1:B:635:MET:HG2	2.00	0.60
1:A:33:ALA:O	1:A:34:LEU:HB2	2.01	0.60
1:A:43:THR:C	1:A:44:PHE:HD1	2.09	0.60
1:A:128:PRO:HG2	1:A:129:THR:HB	1.84	0.60
1:A:221:ALA:HA	1:A:224:LEU:HB3	1.82	0.60
1:A:346:THR:N	1:A:360:VAL:HG12	2.17	0.60
1:A:491:MET:O	1:A:495:VAL:N	2.33	0.60
1:A:636:TRP:CZ3	1:A:640:PHE:CZ	2.88	0.60
1:A:657:ASP:O	1:A:661:LEU:CD2	2.50	0.60
1:A:695:GLN:NE2	1:A:695:GLN:HA	2.15	0.60
1:A:745:ALA:O	1:A:746:LEU:C	2.43	0.60
1:B:79:ALA:HB3	1:B:80:LEU:HD23	1.81	0.60
1:B:153:PHE:CE2	1:B:202:LEU:CB	2.85	0.60
1:B:281:ILE:O	1:B:285:ARG:N	2.34	0.60
1:B:282:ASP:O	1:B:285:ARG:HG3	2.02	0.60
1:B:539:SER:O	1:B:541:ARG:CB	2.50	0.60
1:B:578:TRP:HD1	1:B:579:PRO:CD	2.14	0.60
1:B:596:THR:CG2	1:B:601:ARG:NE	2.65	0.60
1:B:753:SER:O	1:B:755:ALA:CB	2.50	0.60
1:A:34:LEU:HD21	1:A:35:GLN:OE1	2.02	0.60
1:A:383:ASN:O	1:A:384:GLN:C	2.43	0.60
1:A:393:ILE:HG23	1:A:612:LEU:HD12	1.82	0.60
1:A:528:ILE:CG2	1:A:530:VAL:HG12	2.32	0.60
1:A:534:ALA:O	1:A:535:ILE:HG22	2.02	0.60
1:A:654:SER:C	1:A:656:ASP:HB2	2.27	0.60
1:A:666:ARG:HA	1:A:669:GLN:CD	2.25	0.60
1:B:44:PHE:CD1	1:B:333:LEU:CD1	2.85	0.60
1:B:47:SER:N	1:B:332:LYS:HZ3	1.98	0.60
1:B:181:PRO:HA	1:B:331:PHE:CZ	2.37	0.60
1:B:220:LEU:O	1:B:221:ALA:C	2.44	0.60
1:B:506:HIS:N	1:B:507:GLN:CB	2.64	0.60
1:B:540:ILE:HD11	1:B:551:TYR:HB2	1.79	0.60
1:B:584:SER:O	1:B:585:THR:HG22	2.02	0.60
1:B:602:TYR:CD2	1:B:701:GLN:HB3	2.36	0.60
1:A:34:LEU:CB	1:A:504:SER:HB3	2.28	0.60
1:A:56:VAL:HG13	1:A:66:TYR:CZ	2.36	0.60
1:A:234:THR:HG23	1:A:237:PHE:CB	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:VAL:CG2	1:A:639:TRP:CZ2	2.84	0.60
1:A:556:GLN:NE2	1:A:557:PRO:HD2	2.16	0.60
1:B:2:PHE:CE1	1:B:3:ASN:O	2.54	0.60
1:B:14:ARG:O	1:B:17:THR:N	2.35	0.60
1:B:34:LEU:HD12	1:B:34:LEU:O	2.02	0.60
1:B:71:PHE:CE2	1:B:329:SER:CA	2.83	0.60
1:B:71:PHE:CZ	1:B:330:PRO:CD	2.85	0.60
1:B:71:PHE:HD2	1:B:329:SER:HA	1.65	0.60
1:B:181:PRO:CB	1:B:331:PHE:CZ	2.85	0.60
1:B:363:ASP:N	1:B:441:PHE:HA	2.15	0.60
1:B:653:THR:HG1	1:B:654:SER:N	2.00	0.60
1:B:707:LEU:CD1	1:B:708:ILE:N	2.61	0.60
1:B:726:TRP:CZ3	1:B:729:LEU:HB2	2.37	0.60
1:B:729:LEU:O	1:B:732:LEU:HB3	2.01	0.60
1:A:51:GLU:HA	1:A:174:VAL:CG2	2.31	0.59
1:A:66:TYR:O	1:A:69:LEU:HB2	2.02	0.59
1:A:71:PHE:CE2	1:A:329:SER:HB2	2.37	0.59
1:A:187:VAL:HG13	1:A:247:ASN:HA	1.79	0.59
1:A:213:THR:C	1:A:215:LYS:HB3	2.27	0.59
1:A:268:GLU:C	1:A:269:LEU:O	2.39	0.59
1:A:306:VAL:O	1:A:307:ILE:HG13	2.01	0.59
1:A:309:SER:O	1:A:318:ILE:CD1	2.50	0.59
1:A:540:ILE:HG22	1:A:541:ARG:NE	2.17	0.59
1:A:610:GLU:HA	1:A:613:GLY:CA	2.27	0.59
1:A:735:MET:HG3	1:A:737:LEU:O	2.00	0.59
1:A:758:MET:SD	1:A:759:VAL:HA	2.41	0.59
1:B:44:PHE:CE1	1:B:332:LYS:C	2.72	0.59
1:B:102:ILE:HG21	1:B:135:LEU:CD2	2.32	0.59
1:B:158:LEU:HB2	1:B:210:LEU:HD22	1.84	0.59
1:B:176:ARG:NH1	1:B:446:GLU:O	2.34	0.59
1:B:607:LYS:CB	1:B:609:PHE:CG	2.85	0.59
1:B:628:VAL:CA	1:B:631:ALA:HB3	2.31	0.59
1:B:647:LEU:CB	1:B:667:ARG:HG3	2.31	0.59
1:A:45:SER:CA	1:A:332:LYS:HB2	2.32	0.59
1:A:109:TYR:O	1:A:109:TYR:HD1	1.84	0.59
1:A:180:TYR:CE1	1:A:331:PHE:HB3	2.36	0.59
1:A:213:THR:OG1	1:A:219:ALA:HB1	2.02	0.59
1:A:294:TYR:CE1	1:A:515:SER:CA	2.85	0.59
1:A:344:GLY:HA3	1:A:361:TYR:O	2.02	0.59
1:A:374:THR:HG22	1:A:620:ARG:CZ	2.32	0.59
1:A:416:ASN:O	1:A:420:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:ALA:O	1:A:476:SER:C	2.44	0.59
1:A:480:LYS:HD2	1:A:480:LYS:C	2.27	0.59
1:A:570:ASN:O	1:A:573:THR:HG22	2.03	0.59
1:A:723:ILE:HG23	1:A:724:ARG:N	2.16	0.59
1:B:22:ILE:CG1	1:B:517:TYR:CD1	2.85	0.59
1:B:109:TYR:CD2	1:B:134:GLN:NE2	2.70	0.59
1:B:236:ALA:HA	1:B:239:ARG:HB2	1.84	0.59
1:B:259:ARG:CG	1:B:269:LEU:HD13	2.32	0.59
1:B:317:ILE:CG2	1:B:320:TRP:CH2	2.85	0.59
1:B:364:TRP:CD2	1:B:442:PRO:HG2	2.37	0.59
1:B:504:SER:HB3	1:B:517:TYR:CE2	2.37	0.59
1:B:618:ARG:H	1:B:619:GLU:HA	1.65	0.59
1:B:719:ASN:CG	1:B:720:ARG:NE	2.60	0.59
1:A:68:ARG:HH22	1:A:330:PRO:HD3	1.68	0.59
1:A:540:ILE:HG21	1:A:541:ARG:NH2	2.10	0.59
1:A:589:TYR:HE2	1:A:591:ASP:CG	2.09	0.59
1:A:593:TYR:CB	1:A:726:TRP:CD1	2.86	0.59
1:A:732:LEU:HG	1:A:738:LEU:CD1	2.32	0.59
1:B:42:ARG:HB2	1:B:42:ARG:NH1	2.17	0.59
1:B:43:THR:CG2	1:B:287:ASN:HB3	2.32	0.59
1:B:93:HIS:HB3	1:B:237:PHE:HE1	0.64	0.59
1:B:173:ARG:CD	1:B:174:VAL:H	2.01	0.59
1:B:306:VAL:O	1:B:307:ILE:C	2.45	0.59
1:B:317:ILE:CG1	1:B:320:TRP:CE2	2.85	0.59
1:B:350:ASP:O	1:B:351:HIS:CB	2.51	0.59
1:B:364:TRP:CD2	1:B:442:PRO:CG	2.86	0.59
1:A:86:VAL:CG2	1:A:191:ARG:HD2	2.33	0.59
1:A:105:LYS:HZ1	1:A:137:THR:HG1	1.49	0.59
1:A:127:PRO:C	1:A:166:PRO:HB3	2.06	0.59
1:A:182:ASN:O	1:A:186:LEU:HD12	2.02	0.59
1:A:319:PRO:CD	1:A:320:TRP:H	2.16	0.59
1:A:345:GLN:C	1:A:360:VAL:HA	2.26	0.59
1:A:420:VAL:CG2	1:A:643:ASP:OD2	2.42	0.59
1:A:521:ASN:CG	1:A:541:ARG:HA	2.26	0.59
1:A:580:TRP:CZ3	1:A:581:HIS:CE1	2.90	0.59
1:A:643:ASP:HA	1:A:646:THR:OG1	2.02	0.59
1:B:343:ILE:CD1	1:B:493:TYR:CZ	2.85	0.59
1:B:578:TRP:CD1	1:B:579:PRO:CD	2.85	0.59
1:B:617:ARG:HH11	1:B:617:ARG:CG	2.14	0.59
1:B:676:ARG:NH1	1:B:676:ARG:HG2	2.17	0.59
1:B:702:MET:CE	1:B:714:LEU:HD12	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:712:SER:CB	1:B:715:HIS:CE1	2.85	0.59
1:A:164:ILE:C	1:A:165:LEU:HD22	2.27	0.59
1:A:408:PHE:CB	1:A:636:TRP:CD1	2.85	0.59
1:A:600:LYS:CB	1:A:602:TYR:CE1	2.86	0.59
1:A:683:THR:CG2	1:A:684:THR:H	2.09	0.59
1:A:748:LYS:HD3	1:A:748:LYS:C	2.26	0.59
1:B:24:GLU:HA	1:B:506:HIS:NE2	2.16	0.59
1:B:42:ARG:HD3	1:B:336:ILE:HA	1.83	0.59
1:B:43:THR:N	1:B:334:ARG:CB	2.64	0.59
1:B:70:PHE:CD2	1:B:195:LEU:CD1	2.86	0.59
1:B:109:TYR:CE2	1:B:131:ILE:HG12	2.36	0.59
1:B:113:SER:OG	1:B:115:ASN:HB3	2.03	0.59
1:B:176:ARG:HD3	1:B:176:ARG:N	2.16	0.59
1:B:354:GLN:HG3	1:B:528:ILE:HG21	1.84	0.59
1:B:467:VAL:HG22	1:B:468:ASP:N	2.17	0.59
1:B:501:VAL:CG2	1:B:520:TRP:CD1	2.85	0.59
1:B:596:THR:CG2	1:B:601:ARG:HD2	2.32	0.59
1:B:651:ARG:CZ	1:B:660:LYS:HG3	2.25	0.59
1:B:672:VAL:HA	1:B:675:LEU:HD12	1.85	0.59
1:A:59:GLY:HA2	1:A:152:ASP:CA	2.32	0.59
1:A:143:HIS:O	1:A:145:LEU:CD1	2.45	0.59
1:A:293:ALA:O	1:A:297:MET:HB2	2.02	0.59
1:A:347:SER:HB3	1:A:348:ALA:HB2	0.76	0.59
1:A:434:GLY:C	1:A:437:MET:HE3	2.25	0.59
1:A:448:ASP:OD1	1:A:448:ASP:N	2.34	0.59
1:A:472:GLU:CB	1:A:475:ALA:HB2	2.17	0.59
1:A:729:LEU:O	1:A:732:LEU:C	2.44	0.59
1:B:29:LEU:CD1	1:B:532:TYR:CE1	2.85	0.59
1:B:44:PHE:CD1	1:B:333:LEU:CD2	2.85	0.59
1:B:68:ARG:NH1	1:B:68:ARG:HA	2.18	0.59
1:B:128:PRO:CA	1:B:131:ILE:HB	2.27	0.59
1:B:408:PHE:CZ	1:B:633:ILE:CG1	2.86	0.59
1:B:521:ASN:CA	1:B:541:ARG:HD2	2.33	0.59
1:B:623:ILE:O	1:B:625:LYS:HE3	2.02	0.59
1:A:128:PRO:N	1:A:166:PRO:CG	2.50	0.59
1:A:173:ARG:CG	1:A:579:PRO:HB3	2.33	0.59
1:A:191:ARG:O	1:A:194:ASP:HB3	2.01	0.59
1:A:234:THR:O	1:A:238:GLU:N	2.36	0.59
1:A:500:GLU:CG	1:A:522:VAL:H	2.14	0.59
1:A:507:GLN:CG	1:A:508:GLY:H	2.15	0.59
1:A:508:GLY:HA3	1:A:510:ALA:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:THR:HG22	1:A:655:ARG:NE	2.17	0.59
1:A:714:LEU:O	1:A:715:HIS:C	2.41	0.59
1:B:24:GLU:CG	1:B:28:GLN:HG3	2.33	0.59
1:B:94:GLN:HA	1:B:96:THR:OG1	2.01	0.59
1:B:103:TRP:HD1	1:B:227:GLN:O	1.84	0.59
1:B:191:ARG:NE	1:B:194:ASP:OD2	2.35	0.59
1:B:226:SER:CB	1:B:229:LEU:HD12	2.32	0.59
1:B:294:TYR:CE1	1:B:298:VAL:CG2	2.84	0.59
1:B:294:TYR:OH	1:B:516:LEU:HD11	2.03	0.59
1:B:317:ILE:CG1	1:B:320:TRP:CZ2	2.85	0.59
1:B:358:VAL:HG21	1:B:438:THR:CG2	2.33	0.59
1:B:364:TRP:HZ2	1:B:628:VAL:CG2	2.15	0.59
1:B:408:PHE:HZ	1:B:633:ILE:HD11	1.64	0.59
1:B:593:TYR:CD2	1:B:726:TRP:CB	2.85	0.59
1:B:759:VAL:O	1:B:760:VAL:HG23	2.01	0.59
1:A:4:LEU:HD22	1:A:17:THR:HG21	1.81	0.59
1:A:18:GLN:CB	1:A:21:ALA:HB2	2.33	0.59
1:A:158:LEU:HD12	1:A:158:LEU:N	2.18	0.59
1:A:170:TYR:HE2	1:A:578:TRP:CZ2	2.19	0.59
1:A:294:TYR:OH	1:A:516:LEU:HG	2.02	0.59
1:A:331:PHE:O	1:A:332:LYS:HG2	2.02	0.59
1:A:524:THR:HG1	1:A:538:GLY:C	2.09	0.59
1:A:633:ILE:O	1:A:636:TRP:HB3	2.02	0.59
1:A:733:GLN:NE2	1:A:738:LEU:CD1	2.66	0.59
1:B:44:PHE:H	1:B:289:ALA:HB3	1.67	0.59
1:B:109:TYR:HD2	1:B:134:GLN:NE2	2.01	0.59
1:B:522:VAL:HG21	1:B:552:ASN:HD21	1.68	0.59
1:A:16:LEU:HG	1:A:462:LEU:O	2.01	0.59
1:A:51:GLU:O	1:A:52:LEU:HB2	2.03	0.59
1:A:176:ARG:CG	1:A:447:ARG:NH1	2.52	0.59
1:A:349:ILE:HG12	1:A:354:GLN:O	2.01	0.59
1:A:377:LYS:HB3	1:A:385:ARG:HH11	1.68	0.59
1:A:476:SER:HA	1:A:479:LEU:HD12	1.84	0.59
1:A:493:TYR:CZ	1:A:549:ILE:CG2	2.85	0.59
1:A:682:GLY:O	1:A:727:ALA:HB1	2.03	0.59
1:A:690:ALA:N	1:A:693:LEU:HD22	2.18	0.59
1:A:729:LEU:HD21	1:A:738:LEU:HD11	1.83	0.59
1:B:44:PHE:CE1	1:B:333:LEU:CA	2.85	0.59
1:B:71:PHE:HE2	1:B:329:SER:HB2	1.66	0.59
1:B:101:GLU:O	1:B:104:ARG:N	2.36	0.59
1:B:106:LEU:O	1:B:108:ALA:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:LYS:H	1:B:368:LYS:CD	2.06	0.59
1:B:370:ILE:HD11	1:B:401:LEU:HD12	1.85	0.59
1:B:651:ARG:NE	1:B:660:LYS:HG3	2.16	0.59
1:A:25:LEU:HG	1:A:26:LYS:HZ3	1.68	0.59
1:A:133:GLU:O	1:A:134:GLN:C	2.40	0.59
1:A:159:SER:CA	1:A:164:ILE:CA	2.81	0.59
1:A:213:THR:CG2	1:A:220:LEU:HD23	2.33	0.59
1:A:272:SER:O	1:A:276:ARG:CD	2.49	0.59
1:A:444:VAL:HA	1:A:447:ARG:HB2	1.83	0.59
1:A:493:TYR:CE1	1:A:549:ILE:CG1	2.85	0.59
1:A:502:VAL:H	1:A:518:LEU:CD1	2.16	0.59
1:A:544:GLU:HG3	1:A:545:PRO:O	2.03	0.59
1:A:602:TYR:CE2	1:A:702:MET:CE	2.86	0.59
1:B:109:TYR:CE2	1:B:131:ILE:CG1	2.85	0.59
1:B:127:PRO:CA	1:B:128:PRO:N	2.64	0.59
1:B:183:PHE:CE2	1:B:184:TYR:CD1	2.90	0.59
1:B:321:PHE:CZ	1:B:326:SER:CB	2.85	0.59
1:B:501:VAL:CA	1:B:520:TRP:CD1	2.85	0.59
1:B:623:ILE:HD13	1:B:625:LYS:CA	2.32	0.59
1:B:691:VAL:HG13	1:B:723:ILE:HG12	1.85	0.59
1:A:62:ASP:OD2	1:A:66:TYR:N	2.36	0.58
1:A:272:SER:O	1:A:276:ARG:N	2.36	0.58
1:A:294:TYR:HD1	1:A:294:TYR:C	2.11	0.58
1:A:472:GLU:H	1:A:475:ALA:HB3	1.66	0.58
1:A:478:ASP:O	1:A:481:ARG:N	2.36	0.58
1:B:14:ARG:HD2	1:B:26:LYS:CD	2.33	0.58
1:B:24:GLU:N	1:B:506:HIS:CE1	2.71	0.58
1:B:43:THR:HG23	1:B:287:ASN:CG	2.27	0.58
1:B:102:ILE:CD1	1:B:103:TRP:CE3	2.86	0.58
1:B:200:THR:O	1:B:203:SER:N	2.36	0.58
1:B:600:LYS:CB	1:B:602:TYR:CE1	2.85	0.58
1:B:703:ALA:CA	1:B:708:ILE:HD13	2.33	0.58
1:A:82:VAL:CG2	1:A:188:ASP:HB3	2.33	0.58
1:A:159:SER:OG	1:A:164:ILE:HB	2.01	0.58
1:A:181:PRO:HB2	1:A:484:PHE:CE2	2.38	0.58
1:A:197:ARG:HA	1:A:200:THR:HB	1.84	0.58
1:A:209:MET:CG	1:A:210:LEU:H	2.14	0.58
1:A:347:SER:HA	1:A:554:PRO:HB3	1.85	0.58
1:A:349:ILE:HD11	1:A:356:SER:CA	2.33	0.58
1:A:718:ILE:O	1:A:721:HIS:C	2.44	0.58
1:B:24:GLU:CB	1:B:506:HIS:NE2	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:87:ASN:ND2	1:B:88:GLN:N	2.50	0.58
1:B:309:SER:OG	1:B:315:SER:OG	2.21	0.58
1:B:352:MET:HE3	1:B:352:MET:C	2.28	0.58
1:B:526:LEU:HD22	1:B:527:ARG:CA	2.32	0.58
1:B:597:ILE:HD12	1:B:713:ASP:C	2.27	0.58
1:B:629:ALA:O	1:B:632:ILE:HG22	2.02	0.58
1:A:86:VAL:CG2	1:A:191:ARG:CD	2.82	0.58
1:A:177:THR:CG2	1:A:178:ALA:H	2.15	0.58
1:A:221:ALA:C	1:A:224:LEU:H	2.11	0.58
1:A:222:PRO:HG2	1:A:223:ALA:H	1.67	0.58
1:A:294:TYR:CE1	1:A:515:SER:HA	2.29	0.58
1:A:344:GLY:C	1:A:361:TYR:H	2.11	0.58
1:A:541:ARG:NH2	1:A:542:THR:OG1	2.36	0.58
1:A:688:ALA:C	1:A:691:VAL:HG23	2.27	0.58
1:A:740:ARG:N	1:A:742:GLU:CD	2.51	0.58
1:B:42:ARG:N	1:B:43:THR:OG1	2.36	0.58
1:B:158:LEU:CD1	1:B:210:LEU:HB3	2.24	0.58
1:B:251:SER:HA	1:B:301:ARG:NH2	2.18	0.58
1:B:294:TYR:HE2	1:B:516:LEU:HD11	1.65	0.58
1:B:308:PHE:HZ	1:B:318:ILE:CD1	2.07	0.58
1:B:356:SER:C	1:B:436:GLU:H	2.10	0.58
1:B:540:ILE:O	1:B:541:ARG:C	2.46	0.58
1:B:695:GLN:HE22	1:B:715:HIS:HE1	1.51	0.58
1:B:702:MET:HE3	1:B:714:LEU:CD1	2.33	0.58
1:A:173:ARG:NE	1:A:579:PRO:HB3	2.18	0.58
1:A:205:VAL:CG2	1:A:239:ARG:HH22	2.15	0.58
1:A:335:PRO:HB2	1:A:338:GLU:OE2	2.04	0.58
1:A:352:MET:CE	1:A:427:ARG:HA	2.32	0.58
1:A:442:PRO:O	1:A:446:GLU:HB2	2.02	0.58
1:A:448:ASP:CB	1:A:455:PRO:HG3	2.32	0.58
1:A:693:LEU:CB	1:A:726:TRP:HH2	2.16	0.58
1:B:38:LEU:O	1:B:39:GLN:CG	2.45	0.58
1:B:103:TRP:HE3	1:B:103:TRP:N	2.01	0.58
1:B:276:ARG:HH11	1:B:276:ARG:CG	2.15	0.58
1:B:400:THR:CG2	1:B:686:ILE:HG12	2.34	0.58
1:B:424:VAL:HB	1:B:430:VAL:HG13	1.84	0.58
1:B:617:ARG:HB3	1:B:619:GLU:HG3	1.83	0.58
1:A:114:SER:O	1:A:115:ASN:HB3	2.02	0.58
1:A:181:PRO:CB	1:A:484:PHE:CD1	2.86	0.58
1:A:189:CYS:HB3	1:A:323:GLU:OE1	2.02	0.58
1:A:284:LEU:HG	1:A:287:ASN:OD1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:ILE:N	1:A:559:GLU:OE2	2.35	0.58
1:A:441:PHE:HB2	1:A:443:SER:OG	2.03	0.58
1:A:521:ASN:O	1:A:522:VAL:HG22	2.02	0.58
1:A:583:ALA:HA	1:A:625:LYS:NZ	2.17	0.58
1:A:655:ARG:H	1:A:656:ASP:C	2.11	0.58
1:B:44:PHE:CG	1:B:333:LEU:CD2	2.87	0.58
1:B:103:TRP:CD2	1:B:230:ALA:CB	2.85	0.58
1:B:183:PHE:CD2	1:B:184:TYR:CD1	2.92	0.58
1:B:408:PHE:C	1:B:632:ILE:HD11	2.28	0.58
1:B:472:GLU:CD	1:B:473:ALA:H	2.08	0.58
1:B:640:PHE:CD1	1:B:670:ASN:OD1	2.56	0.58
1:A:4:LEU:CD2	1:A:17:THR:CG2	2.75	0.58
1:A:64:VAL:CG1	1:A:196:ARG:HA	2.33	0.58
1:A:299:LYS:HB3	1:A:300:GLN:NE2	2.18	0.58
1:A:345:GLN:HG2	1:A:554:PRO:O	2.02	0.58
1:A:491:MET:C	1:A:495:VAL:HG23	2.29	0.58
1:A:498:ASN:CG	1:A:522:VAL:HB	2.29	0.58
1:A:610:GLU:O	1:A:613:GLY:HA3	2.03	0.58
1:B:131:ILE:O	1:B:134:GLN:N	2.35	0.58
1:B:236:ALA:HB2	1:B:239:ARG:HE	1.69	0.58
1:B:540:ILE:O	1:B:542:THR:N	2.37	0.58
1:B:598:ARG:NH1	1:B:710:ASP:O	2.34	0.58
1:B:705:ARG:N	1:B:708:ILE:HD11	2.19	0.58
1:A:210:LEU:HB3	1:A:212:ALA:O	2.04	0.58
1:A:306:VAL:CG1	1:A:309:SER:HB2	2.31	0.58
1:A:408:PHE:HB3	1:A:636:TRP:CD1	2.39	0.58
1:A:636:TRP:CE3	1:A:640:PHE:CE2	2.88	0.58
1:A:643:ASP:O	1:A:644:ASP:C	2.41	0.58
1:B:275:LEU:HD23	1:B:278:THR:HB	1.84	0.58
1:B:707:LEU:HD22	1:B:707:LEU:C	2.29	0.58
1:B:737:LEU:N	1:B:737:LEU:HD12	2.18	0.58
1:A:220:LEU:HD23	1:A:220:LEU:O	2.03	0.58
1:A:292:ILE:CB	1:A:295:GLN:HB3	2.30	0.58
1:A:466:ILE:HD12	1:A:466:ILE:O	2.02	0.58
1:A:523:ARG:HG2	1:A:538:GLY:CA	2.34	0.58
1:A:530:VAL:HG21	1:A:551:TYR:CZ	2.39	0.58
1:A:535:ILE:HG12	1:A:540:ILE:CD1	2.34	0.58
1:A:535:ILE:HG12	1:A:540:ILE:HD12	1.86	0.58
1:A:640:PHE:N	1:A:640:PHE:HD1	2.02	0.58
1:A:753:SER:N	1:A:754:ASN:O	2.37	0.58
1:B:314:SER:CB	1:B:317:ILE:HB	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:VAL:C	1:B:359:VAL:HG23	2.28	0.58
1:B:368:LYS:HD2	1:B:369:GLU:CD	2.29	0.58
1:B:501:VAL:HG13	1:B:520:TRP:HE1	1.66	0.58
1:B:637:TYR:CA	1:B:640:PHE:HD2	2.11	0.58
1:A:102:ILE:O	1:A:102:ILE:HG22	2.04	0.58
1:A:173:ARG:HD2	1:A:579:PRO:HB3	1.84	0.58
1:A:272:SER:O	1:A:275:LEU:N	2.36	0.58
1:A:284:LEU:HA	1:A:287:ASN:HB3	1.85	0.58
1:A:287:ASN:ND2	1:A:290:LEU:CG	2.67	0.58
1:A:346:THR:CB	1:A:358:VAL:CA	2.70	0.58
1:A:695:GLN:O	1:A:696:SER:C	2.44	0.58
1:B:9:LEU:HD12	1:B:9:LEU:N	2.04	0.58
1:B:14:ARG:CG	1:B:465:GLY:HA3	2.34	0.58
1:B:127:PRO:O	1:B:130:ALA:HB3	2.03	0.58
1:B:176:ARG:HE	1:B:176:ARG:C	2.10	0.58
1:B:228:HIS:HA	1:B:231:ASN:CB	2.33	0.58
1:B:317:ILE:HG22	1:B:318:ILE:HD12	1.85	0.58
1:B:577:ILE:HD12	1:B:578:TRP:CA	2.27	0.58
1:B:740:ARG:HG2	1:B:741:SER:H	1.66	0.58
1:A:35:GLN:N	1:A:503:VAL:O	2.36	0.58
1:A:231:ASN:CG	1:A:232:ALA:N	2.62	0.58
1:A:278:THR:CG2	1:A:281:ILE:HG12	2.32	0.58
1:A:338:GLU:C	1:A:340:THR:N	2.56	0.58
1:A:498:ASN:O	1:A:499:PRO:C	2.46	0.58
1:A:636:TRP:CE3	1:A:640:PHE:CD1	2.92	0.58
1:B:8:ASP:OD2	1:B:10:ASN:N	2.37	0.58
1:B:9:LEU:HD23	1:B:16:LEU:CB	2.28	0.58
1:B:18:GLN:NE2	1:B:545:PRO:HD3	2.19	0.58
1:B:323:GLU:O	1:B:326:SER:OG	2.21	0.58
1:B:593:TYR:CZ	1:B:722:ARG:HG3	2.38	0.58
1:A:59:GLY:O	1:A:156:HIS:CB	2.52	0.57
1:A:298:VAL:HG13	1:A:299:LYS:N	2.18	0.57
1:A:374:THR:O	1:A:387:LEU:HB3	2.04	0.57
1:A:396:ARG:NE	1:A:612:LEU:HD13	2.18	0.57
1:A:417:ARG:HH11	1:A:417:ARG:CG	2.14	0.57
1:A:524:THR:CG2	1:A:539:SER:CA	2.60	0.57
1:A:532:TYR:CG	1:A:533:ASN:N	2.72	0.57
1:B:72:GLN:O	1:B:75:GLN:HB2	2.04	0.57
1:B:74:ALA:O	1:B:77:GLY:CA	2.51	0.57
1:B:221:ALA:HB1	1:B:222:PRO:HD3	1.85	0.57
1:B:363:ASP:N	1:B:441:PHE:HB3	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:ALA:O	1:B:412:ALA:CB	2.50	0.57
1:A:12:SER:HB3	1:A:463:ARG:NH2	2.10	0.57
1:A:82:VAL:HG21	1:A:188:ASP:CB	2.33	0.57
1:A:252:SER:CB	1:A:308:PHE:HE1	2.17	0.57
1:A:258:GLY:CA	1:A:261:TRP:CE3	2.85	0.57
1:B:5:LYS:HD3	1:B:435:ALA:C	2.29	0.57
1:B:43:THR:N	1:B:334:ARG:HB3	2.15	0.57
1:B:283:GLN:CD	1:B:284:LEU:H	2.11	0.57
1:B:317:ILE:HA	1:B:320:TRP:NE1	2.18	0.57
1:B:386:PHE:HD1	1:B:386:PHE:N	2.02	0.57
1:B:625:LYS:H	1:B:625:LYS:HZ2	1.50	0.57
1:A:87:ASN:ND2	1:A:191:ARG:CZ	2.67	0.57
1:A:259:ARG:CG	1:A:266:PRO:HB3	2.33	0.57
1:A:442:PRO:HD2	1:A:443:SER:OG	2.04	0.57
1:A:523:ARG:CZ	1:A:525:GLU:CA	2.83	0.57
1:A:732:LEU:HG	1:A:738:LEU:HD21	1.82	0.57
1:B:56:VAL:HG23	1:B:170:TYR:CG	2.40	0.57
1:B:308:PHE:CD1	1:B:309:SER:N	2.73	0.57
1:B:317:ILE:CG2	1:B:320:TRP:CZ2	2.85	0.57
1:B:484:PHE:CG	1:B:485:ASN:N	2.72	0.57
1:B:592:ALA:CA	1:B:726:TRP:CZ2	2.82	0.57
1:B:632:ILE:HG23	1:B:633:ILE:N	2.19	0.57
1:B:726:TRP:CE3	1:B:726:TRP:CA	2.86	0.57
1:A:87:ASN:OD1	1:A:191:ARG:HD3	2.02	0.57
1:A:93:HIS:CE1	1:A:237:PHE:HD2	2.22	0.57
1:A:349:ILE:HG21	1:A:354:GLN:CA	2.25	0.57
1:A:381:ASN:O	1:A:382:SER:OG	2.14	0.57
1:A:387:LEU:HD11	1:A:577:ILE:HG23	1.86	0.57
1:A:751:GLY:O	1:A:755:ALA:N	2.38	0.57
1:B:321:PHE:CD1	1:B:325:MET:CE	2.87	0.57
1:B:359:VAL:O	1:B:359:VAL:HG12	2.04	0.57
1:B:362:GLU:O	1:B:410:VAL:HG23	2.03	0.57
1:B:453:ARG:NH2	1:B:478:ASP:HB2	2.18	0.57
1:B:585:THR:N	1:B:622:ARG:CG	2.66	0.57
1:B:654:SER:HB2	1:B:659:GLU:OE1	2.04	0.57
1:B:658:ALA:O	1:B:661:LEU:HB3	2.03	0.57
1:B:729:LEU:HD22	1:B:732:LEU:HD12	1.83	0.57
1:A:290:LEU:HD12	1:A:290:LEU:C	2.29	0.57
1:A:347:SER:CB	1:A:348:ALA:CA	2.83	0.57
1:A:377:LYS:HB3	1:A:385:ARG:NH1	2.19	0.57
1:A:438:THR:O	1:A:438:THR:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:ARG:CZ	1:A:524:THR:C	2.78	0.57
1:A:555:ILE:CG1	1:A:556:GLN:H	2.09	0.57
1:A:589:TYR:CD2	1:A:590:GLU:N	2.72	0.57
1:A:593:TYR:O	1:A:604:ALA:HB3	2.05	0.57
1:A:676:ARG:HH11	1:A:676:ARG:CG	2.15	0.57
1:A:683:THR:O	1:A:684:THR:HG22	2.04	0.57
1:B:42:ARG:HH12	1:B:339:THR:N	2.01	0.57
1:B:58:LYS:CD	1:B:58:LYS:H	2.17	0.57
1:B:60:ASN:OD1	1:B:60:ASN:N	2.35	0.57
1:B:82:VAL:HG23	1:B:188:ASP:CB	2.33	0.57
1:B:344:GLY:HA2	1:B:555:ILE:C	2.29	0.57
1:B:393:ILE:O	1:B:397:MET:CG	2.52	0.57
1:B:616:GLN:C	1:B:618:ARG:CA	2.53	0.57
1:A:420:VAL:CG1	1:A:643:ASP:CG	2.58	0.57
1:A:425:SER:HB2	1:A:426:GLN:HB3	1.85	0.57
1:A:605:GLU:CG	1:A:607:LYS:HZ2	2.18	0.57
1:B:43:THR:CG2	1:B:44:PHE:H	2.17	0.57
1:B:48:MET:CA	1:B:179:THR:HG22	2.20	0.57
1:B:114:SER:HG	1:B:222:PRO:HB2	1.70	0.57
1:B:171:VAL:HG22	1:B:578:TRP:CE3	2.39	0.57
1:B:315:SER:O	1:B:319:PRO:HG3	2.03	0.57
1:B:370:ILE:HG22	1:B:623:ILE:CD1	2.34	0.57
1:B:376:VAL:N	1:B:386:PHE:H	2.02	0.57
1:B:462:LEU:CD1	1:B:463:ARG:N	2.64	0.57
1:B:506:HIS:HA	1:B:507:GLN:C	2.28	0.57
1:B:532:TYR:N	1:B:532:TYR:CD1	2.72	0.57
1:B:609:PHE:CD1	1:B:609:PHE:N	2.73	0.57
1:A:85:LEU:HD23	1:A:85:LEU:N	2.19	0.57
1:A:108:ALA:CA	1:A:112:GLY:C	2.73	0.57
1:A:361:TYR:O	1:A:362:GLU:CG	2.53	0.57
1:A:387:LEU:O	1:A:572:THR:HB	2.05	0.57
1:A:641:VAL:HA	1:A:644:ASP:OD2	2.05	0.57
1:A:648:ALA:HB1	1:A:652:ARG:CZ	2.32	0.57
1:B:2:PHE:CD1	1:B:3:ASN:N	2.73	0.57
1:B:72:GLN:HG2	1:B:174:VAL:CG1	2.27	0.57
1:B:231:ASN:ND2	1:B:232:ALA:N	2.53	0.57
1:B:363:ASP:OD1	1:B:561:LEU:HD22	2.05	0.57
1:A:284:LEU:HA	1:A:287:ASN:OD1	2.05	0.57
1:A:350:ASP:O	1:A:351:HIS:CB	2.50	0.57
1:A:433:ASN:HB2	1:A:434:GLY:O	2.05	0.57
1:A:532:TYR:CZ	1:A:533:ASN:ND2	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:574:SER:O	1:A:575:ILE:HD12	2.05	0.57
1:A:588:ALA:HA	1:A:590:GLU:OE2	2.04	0.57
1:A:758:MET:SD	1:A:759:VAL:CA	2.93	0.57
1:B:173:ARG:HG3	1:B:173:ARG:NH1	2.17	0.57
1:B:243:ASN:ND2	1:B:244:PHE:CD2	2.73	0.57
1:B:350:ASP:CB	1:B:430:VAL:H	2.18	0.57
1:B:571:HIS:O	1:B:573:THR:N	2.37	0.57
1:B:681:ILE:O	1:B:684:THR:CG2	2.52	0.57
1:B:702:MET:CE	1:B:714:LEU:CD1	2.82	0.57
1:B:729:LEU:HA	1:B:732:LEU:CG	2.33	0.57
1:A:252:SER:OG	1:A:308:PHE:HE1	1.88	0.57
1:A:272:SER:CA	1:A:276:ARG:CD	2.83	0.57
1:A:517:TYR:HH	1:A:543:PRO:HA	1.70	0.57
1:A:607:LYS:O	1:A:610:GLU:HB3	2.03	0.57
1:A:653:THR:HG22	1:A:655:ARG:HE	1.70	0.57
1:B:92:TYR:CZ	1:B:139:ALA:CB	2.87	0.57
1:B:171:VAL:O	1:B:578:TRP:HB3	2.04	0.57
1:B:358:VAL:HG13	1:B:437:MET:SD	2.45	0.57
1:B:372:ALA:HB3	1:B:389:VAL:HB	1.87	0.57
1:B:509:VAL:HG23	1:B:511:ALA:CA	2.34	0.57
1:B:520:TRP:CD1	1:B:520:TRP:N	2.73	0.57
1:B:522:VAL:C	1:B:539:SER:HA	2.30	0.57
1:A:9:LEU:CD2	1:A:10:ASN:N	2.46	0.57
1:A:45:SER:CB	1:A:332:LYS:CA	2.82	0.57
1:A:82:VAL:CB	1:A:188:ASP:HB3	2.35	0.57
1:A:182:ASN:O	1:A:185:ALA:HB3	2.04	0.57
1:A:186:LEU:H	1:A:186:LEU:CD1	2.13	0.57
1:A:292:ILE:HG22	1:A:295:GLN:HG2	1.76	0.57
1:A:343:ILE:HA	1:A:362:GLU:OE1	2.05	0.57
1:A:352:MET:HG3	1:A:355:PRO:O	2.05	0.57
1:A:361:TYR:HD2	1:A:362:GLU:N	1.78	0.57
1:A:414:VAL:HA	1:A:639:TRP:CZ3	2.34	0.57
1:A:440:GLY:HA3	1:A:635:MET:CE	2.35	0.57
1:A:544:GLU:CG	1:A:547:GLU:CB	2.83	0.57
1:B:45:SER:C	1:B:334:ARG:HH12	2.12	0.57
1:B:61:ILE:CD1	1:B:156:HIS:HA	2.35	0.57
1:B:98:CYS:C	1:B:100:PRO:HD2	2.29	0.57
1:B:110:ILE:HG22	1:B:110:ILE:O	2.05	0.57
1:B:173:ARG:NH1	1:B:578:TRP:CZ2	2.72	0.57
1:B:262:SER:CB	1:B:269:LEU:HG	2.35	0.57
1:B:322:ILE:CA	1:B:325:MET:SD	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:339:THR:OG1	1:B:496:ALA:HB2	2.04	0.57
1:B:351:HIS:HB3	1:B:428:GLY:CA	2.30	0.57
1:B:485:ASN:OD1	1:B:486:TYR:N	2.38	0.57
1:B:501:VAL:C	1:B:519:VAL:O	2.48	0.57
1:B:641:VAL:HG13	1:B:748:LYS:NZ	2.20	0.57
1:A:44:PHE:CD1	1:A:44:PHE:N	2.72	0.56
1:A:282:ASP:N	1:A:282:ASP:OD1	2.38	0.56
1:A:292:ILE:HA	1:A:295:GLN:CB	2.34	0.56
1:A:334:ARG:HG2	1:A:334:ARG:NH1	2.18	0.56
1:A:337:ASN:CG	1:A:340:THR:HG21	2.30	0.56
1:A:345:GLN:CG	1:A:556:GLN:HA	2.34	0.56
1:A:350:ASP:C	1:A:353:GLY:HA2	2.30	0.56
1:A:364:TRP:HE3	1:A:562:GLN:HA	1.70	0.56
1:A:510:ALA:HB1	1:A:511:ALA:CA	2.35	0.56
1:A:530:VAL:HG21	1:A:551:TYR:HE2	1.69	0.56
1:A:542:THR:CG2	1:A:544:GLU:CB	2.83	0.56
1:A:577:ILE:O	1:A:577:ILE:HG13	2.04	0.56
1:A:593:TYR:CG	1:A:726:TRP:CD1	2.93	0.56
1:A:602:TYR:HD2	1:A:702:MET:HE1	1.70	0.56
1:B:173:ARG:HB3	1:B:173:ARG:CZ	2.34	0.56
1:B:288:LEU:CD1	1:B:495:VAL:CG2	2.83	0.56
1:B:291:PHE:CE2	1:B:503:VAL:CG2	2.88	0.56
1:B:425:SER:O	1:B:430:VAL:HG22	2.05	0.56
1:B:472:GLU:H	1:B:475:ALA:CB	2.05	0.56
1:A:16:LEU:HG	1:A:462:LEU:C	2.30	0.56
1:A:260:LEU:HD13	1:A:271:PRO:HG3	1.86	0.56
1:A:522:VAL:C	1:A:539:SER:HB2	2.30	0.56
1:B:112:GLY:O	1:B:113:SER:HB3	2.02	0.56
1:B:324:ALA:HB3	1:B:333:LEU:HD23	1.86	0.56
1:B:607:LYS:CB	1:B:608:GLU:O	2.48	0.56
1:B:623:ILE:HD13	1:B:625:LYS:HA	1.87	0.56
1:B:630:HIS:CG	1:B:634:GLN:NE2	2.72	0.56
1:B:695:GLN:NE2	1:B:715:HIS:CE1	2.73	0.56
1:A:30:SER:C	1:A:31:VAL:HG12	2.28	0.56
1:A:47:SER:H	1:A:48:MET:HE1	1.70	0.56
1:A:58:LYS:HG2	1:A:59:GLY:N	2.19	0.56
1:A:257:LEU:CD1	1:A:261:TRP:CH2	2.86	0.56
1:A:259:ARG:C	1:A:266:PRO:CG	2.78	0.56
1:A:602:TYR:CE2	1:A:702:MET:SD	2.94	0.56
1:A:729:LEU:CD2	1:A:738:LEU:HD13	2.35	0.56
1:B:4:LEU:HD23	1:B:8:ASP:OD1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ARG:NH2	1:B:339:THR:H	2.03	0.56
1:B:125:LYS:NZ	1:B:163:PHE:HE1	2.03	0.56
1:B:343:ILE:HG22	1:B:344:GLY:O	2.05	0.56
1:B:358:VAL:HG21	1:B:438:THR:HG22	1.87	0.56
1:B:376:VAL:CB	1:B:386:PHE:O	2.48	0.56
1:B:471:LEU:HD13	1:B:479:LEU:HB3	1.87	0.56
1:B:533:ASN:CA	1:B:535:ILE:HD12	2.35	0.56
1:B:540:ILE:HG12	1:B:551:TYR:HB2	1.87	0.56
1:B:586:GLU:O	1:B:622:ARG:HG2	2.05	0.56
1:B:598:ARG:NH2	1:B:708:ILE:HA	2.19	0.56
1:B:630:HIS:CD2	1:B:634:GLN:NE2	2.73	0.56
1:B:661:LEU:HD23	1:B:662:ALA:CA	2.35	0.56
1:B:685:GLY:O	1:B:688:ALA:HB3	2.05	0.56
1:B:697:ARG:O	1:B:700:ASP:HB3	2.06	0.56
1:B:702:MET:C	1:B:708:ILE:HD13	2.30	0.56
1:A:55:GLU:HA	1:A:170:TYR:O	2.05	0.56
1:A:61:ILE:HG12	1:A:62:ASP:N	2.19	0.56
1:A:180:TYR:CG	1:A:331:PHE:CB	2.84	0.56
1:A:187:VAL:CA	1:A:190:VAL:HG23	2.35	0.56
1:A:334:ARG:CD	1:A:335:PRO:HD2	2.34	0.56
1:A:442:PRO:HD2	1:A:443:SER:N	2.19	0.56
1:A:540:ILE:HG22	1:A:542:THR:OG1	2.06	0.56
1:A:548:ALA:C	1:A:551:TYR:HB2	2.30	0.56
1:A:666:ARG:O	1:A:669:GLN:HG2	2.04	0.56
1:B:71:PHE:CE2	1:B:330:PRO:CD	2.88	0.56
1:B:102:ILE:CG2	1:B:135:LEU:HD21	2.34	0.56
1:B:216:ALA:CA	1:B:217:LYS:CB	2.84	0.56
1:B:288:LEU:HD22	1:B:495:VAL:HG21	1.86	0.56
1:B:450:ALA:HB2	1:B:627:THR:HG21	1.86	0.56
1:B:533:ASN:C	1:B:535:ILE:HA	2.31	0.56
1:B:670:ASN:HD22	1:B:749:VAL:HG12	1.65	0.56
1:A:22:ILE:CG2	1:A:23:GLY:H	2.07	0.56
1:A:43:THR:C	1:A:44:PHE:CD1	2.84	0.56
1:A:92:TYR:HE1	1:A:150:THR:HG21	1.69	0.56
1:A:144:GLU:C	1:A:147:HIS:H	2.13	0.56
1:A:221:ALA:HB2	1:A:225:ILE:HG13	1.87	0.56
1:A:347:SER:C	1:A:358:VAL:HG22	2.30	0.56
1:A:356:SER:H	1:A:437:MET:CE	2.15	0.56
1:A:361:TYR:N	1:A:361:TYR:CD1	2.73	0.56
1:A:553:LYS:CE	1:A:554:PRO:HD2	2.35	0.56
1:A:675:LEU:O	1:A:678:ILE:HB	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:128:PRO:CA	1:B:131:ILE:CB	2.75	0.56
1:B:362:GLU:HB2	1:B:410:VAL:HB	1.87	0.56
1:B:415:LYS:HD3	1:B:416:ASN:N	2.20	0.56
1:B:437:MET:SD	1:B:550:ALA:CB	2.94	0.56
1:B:503:VAL:HA	1:B:517:TYR:O	2.05	0.56
1:B:580:TRP:CD2	1:B:581:HIS:CA	2.89	0.56
1:B:681:ILE:O	1:B:684:THR:CB	2.51	0.56
1:B:735:MET:CE	1:B:737:LEU:HD11	2.35	0.56
1:A:22:ILE:HD11	1:A:295:GLN:NE2	2.19	0.56
1:A:31:VAL:HG22	1:A:32:GLY:N	2.21	0.56
1:A:50:SER:HA	1:A:564:LYS:HZ3	1.70	0.56
1:A:59:GLY:HA2	1:A:152:ASP:HA	1.87	0.56
1:A:61:ILE:CG1	1:A:66:TYR:CE2	2.85	0.56
1:A:159:SER:HA	1:A:164:ILE:CA	2.35	0.56
1:A:360:VAL:H	1:A:438:THR:HG23	1.69	0.56
1:A:467:VAL:O	1:A:468:ASP:C	2.48	0.56
1:A:651:ARG:HG2	1:A:660:LYS:CB	2.36	0.56
1:A:694:ALA:H	1:A:726:TRP:HZ3	1.53	0.56
1:A:694:ALA:N	1:A:726:TRP:CZ3	2.73	0.56
1:B:176:ARG:NH2	1:B:446:GLU:O	2.38	0.56
1:B:288:LEU:CD2	1:B:495:VAL:HG11	2.35	0.56
1:B:313:LEU:CA	1:B:316:THR:HB	2.31	0.56
1:B:449:TYR:CE2	1:B:630:HIS:CB	2.63	0.56
1:B:506:HIS:O	1:B:515:SER:O	2.23	0.56
1:B:533:ASN:ND2	1:B:551:TYR:CE2	2.73	0.56
1:A:41:THR:O	1:A:336:ILE:HD11	2.06	0.56
1:A:58:LYS:HB3	1:A:58:LYS:HZ3	1.71	0.56
1:A:161:LEU:C	1:A:161:LEU:HD13	2.30	0.56
1:A:478:ASP:C	1:A:481:ARG:H	2.13	0.56
1:A:540:ILE:HG22	1:A:541:ARG:CZ	2.35	0.56
1:A:581:HIS:CE1	1:A:584:SER:CA	2.89	0.56
1:A:716:VAL:HG21	1:B:378:LEU:CD1	2.35	0.56
1:B:350:ASP:HB3	1:B:430:VAL:HG23	1.87	0.56
1:B:386:PHE:CD1	1:B:386:PHE:N	2.72	0.56
1:B:520:TRP:O	1:B:541:ARG:N	2.39	0.56
1:B:628:VAL:C	1:B:631:ALA:HB3	2.30	0.56
1:B:633:ILE:HG21	1:B:738:LEU:HD21	0.59	0.56
1:A:332:LYS:CD	1:A:339:THR:HG21	2.36	0.56
1:A:337:ASN:O	1:A:338:GLU:C	2.48	0.56
1:A:520:TRP:O	1:A:542:THR:HB	2.06	0.56
1:A:598:ARG:C	1:A:599:ASN:HD22	2.09	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:649:ALA:O	1:A:652:ARG:HB2	2.06	0.56
1:A:676:ARG:O	1:A:679:GLU:N	2.38	0.56
1:A:688:ALA:O	1:A:691:VAL:N	2.39	0.56
1:B:24:GLU:HA	1:B:506:HIS:HE2	1.71	0.56
1:B:56:VAL:C	1:B:148:HIS:CE1	2.84	0.56
1:B:180:TYR:CZ	1:B:489:ALA:HA	2.40	0.56
1:B:196:ARG:HB2	1:B:328:VAL:CG1	2.35	0.56
1:B:284:LEU:CD1	1:B:290:LEU:HD22	2.35	0.56
1:B:323:GLU:HA	1:B:326:SER:OG	2.06	0.56
1:B:354:GLN:CG	1:B:528:ILE:CG2	2.69	0.56
1:B:358:VAL:CG1	1:B:437:MET:SD	2.93	0.56
1:B:530:VAL:HB	1:B:551:TYR:OH	2.04	0.56
1:A:49:THR:OG1	1:A:563:ALA:HA	2.06	0.56
1:A:218:GLY:CA	1:A:219:ALA:CB	2.84	0.56
1:A:244:PHE:HE2	1:A:317:ILE:CD1	2.18	0.56
1:A:361:TYR:O	1:A:362:GLU:HB2	2.06	0.56
1:A:449:TYR:N	1:A:455:PRO:HD3	2.20	0.56
1:A:640:PHE:N	1:A:640:PHE:CD1	2.71	0.56
1:A:715:HIS:CB	1:A:716:VAL:HG13	2.34	0.56
1:B:310:ASP:O	1:B:315:SER:HB2	2.05	0.56
1:B:343:ILE:CD1	1:B:493:TYR:CE1	2.85	0.56
1:B:370:ILE:CG2	1:B:625:LYS:HB2	2.35	0.56
1:B:437:MET:HE2	1:B:550:ALA:CA	2.35	0.56
1:B:493:TYR:CD1	1:B:497:HIS:NE2	2.74	0.56
1:B:597:ILE:HG21	1:B:714:LEU:H	1.69	0.56
1:B:614:LEU:CD1	1:B:615:GLY:CA	2.84	0.56
1:A:207:SER:CB	1:A:228:HIS:CE1	2.81	0.56
1:A:348:ALA:C	1:A:349:ILE:CG2	2.79	0.56
1:A:373:PHE:CD1	1:A:373:PHE:C	2.84	0.56
1:A:541:ARG:HD3	1:A:543:PRO:CD	2.35	0.56
1:A:691:VAL:O	1:A:694:ALA:HB3	2.06	0.56
1:A:735:MET:SD	1:A:736:GLY:CA	2.94	0.56
1:B:74:ALA:O	1:B:75:GLN:C	2.49	0.56
1:B:288:LEU:HG	1:B:292:ILE:HD11	1.87	0.56
1:A:38:LEU:CD2	1:A:39:GLN:C	2.74	0.55
1:A:56:VAL:CG1	1:A:66:TYR:CE1	2.86	0.55
1:A:160:PRO:HB2	1:A:208:LYS:CD	2.36	0.55
1:A:259:ARG:HD2	1:A:266:PRO:CA	2.35	0.55
1:A:663:ILE:HD12	1:A:664:ASP:CA	2.36	0.55
1:B:3:ASN:O	1:B:4:LEU:HG	2.05	0.55
1:B:186:LEU:CD1	1:B:186:LEU:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:309:SER:OG	1:B:314:SER:C	2.44	0.55
1:B:400:THR:CG2	1:B:686:ILE:CG1	2.84	0.55
1:B:448:ASP:HB3	1:B:453:ARG:CG	2.36	0.55
1:B:479:LEU:CD1	1:B:483:MET:SD	2.94	0.55
1:B:696:SER:HA	1:B:699:VAL:CB	2.36	0.55
1:A:13:ALA:C	1:A:15:GLY:H	2.12	0.55
1:A:44:PHE:HB2	1:A:333:LEU:CD2	2.35	0.55
1:A:158:LEU:HD23	1:A:225:ILE:CG2	2.36	0.55
1:A:187:VAL:HG11	1:A:247:ASN:CB	2.35	0.55
1:A:333:LEU:HD22	1:A:334:ARG:H	1.72	0.55
1:A:337:ASN:CA	1:A:340:THR:HG23	2.21	0.55
1:A:352:MET:SD	1:A:429:THR:CA	2.94	0.55
1:A:441:PHE:N	1:A:441:PHE:CD1	2.73	0.55
1:A:520:TRP:N	1:A:542:THR:H	2.01	0.55
1:A:527:ARG:CZ	1:A:528:ILE:N	2.67	0.55
1:A:532:TYR:CZ	1:A:533:ASN:CG	2.84	0.55
1:A:620:ARG:HH12	1:A:621:VAL:HA	1.71	0.55
1:B:14:ARG:CG	1:B:465:GLY:CA	2.84	0.55
1:B:40:PHE:CZ	1:B:495:VAL:CG1	2.86	0.55
1:B:111:THR:N	1:B:113:SER:H	2.04	0.55
1:B:260:LEU:HD21	1:B:285:ARG:CB	2.36	0.55
1:B:294:TYR:HE2	1:B:516:LEU:CD2	2.15	0.55
1:B:334:ARG:HG2	1:B:334:ARG:NH1	2.20	0.55
1:B:539:SER:O	1:B:541:ARG:N	2.40	0.55
1:B:540:ILE:HD11	1:B:551:TYR:C	2.31	0.55
1:B:552:ASN:OD1	1:B:552:ASN:N	2.31	0.55
1:B:568:LEU:HD12	1:B:572:THR:CB	2.30	0.55
1:B:602:TYR:CE2	1:B:714:LEU:HD11	2.40	0.55
1:B:610:GLU:C	1:B:612:LEU:N	2.51	0.55
1:B:633:ILE:CB	1:B:738:LEU:HD21	2.30	0.55
1:A:20:PHE:CD1	1:A:299:LYS:NZ	2.71	0.55
1:A:44:PHE:HB2	1:A:334:ARG:N	2.22	0.55
1:A:530:VAL:CG2	1:A:551:TYR:CE2	2.89	0.55
1:B:30:SER:CB	1:B:543:PRO:HG3	2.37	0.55
1:B:32:GLY:O	1:B:33:ALA:HB3	2.06	0.55
1:B:102:ILE:CG2	1:B:138:LEU:CD1	2.84	0.55
1:B:171:VAL:CG2	1:B:578:TRP:HE3	2.20	0.55
1:B:291:PHE:HE2	1:B:503:VAL:HG21	1.71	0.55
1:B:296:ASP:O	1:B:297:MET:C	2.49	0.55
1:B:303:ARG:HD2	1:B:305:GLU:OE2	2.07	0.55
1:B:408:PHE:O	1:B:410:VAL:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:509:VAL:CG2	1:B:511:ALA:HB2	2.36	0.55
1:B:520:TRP:O	1:B:541:ARG:CA	2.55	0.55
1:B:587:PHE:HA	1:B:622:ARG:CD	2.19	0.55
1:A:51:GLU:O	1:A:174:VAL:HG11	2.05	0.55
1:A:73:TYR:CD1	1:A:73:TYR:C	2.84	0.55
1:A:142:GLU:OE2	1:A:143:HIS:NE2	2.39	0.55
1:A:350:ASP:O	1:A:351:HIS:HB2	2.06	0.55
1:A:448:ASP:HA	1:A:451:LEU:HB2	1.88	0.55
1:B:43:THR:CG2	1:B:287:ASN:CB	2.85	0.55
1:B:257:LEU:O	1:B:258:GLY:C	2.45	0.55
1:B:288:LEU:HG	1:B:292:ILE:CD1	2.36	0.55
1:B:575:ILE:HG22	1:B:576:HIS:CB	2.35	0.55
1:B:703:ALA:C	1:B:708:ILE:CD1	2.78	0.55
1:A:86:VAL:HG21	1:A:191:ARG:CB	2.36	0.55
1:A:212:ALA:HB3	1:A:220:LEU:C	2.31	0.55
1:A:383:ASN:O	1:A:384:GLN:O	2.25	0.55
1:A:421:TYR:O	1:A:424:VAL:N	2.39	0.55
1:A:532:TYR:CE1	1:A:533:ASN:CG	2.85	0.55
1:A:548:ALA:HA	1:A:551:TYR:CB	2.30	0.55
1:A:737:LEU:O	1:A:738:LEU:HG	2.06	0.55
1:B:37:PRO:CG	1:B:261:TRP:CH2	2.84	0.55
1:B:71:PHE:CD1	1:B:71:PHE:C	2.84	0.55
1:B:205:VAL:HG21	1:B:232:ALA:HB2	1.87	0.55
1:B:381:ASN:N	1:B:381:ASN:OD1	2.39	0.55
1:B:448:ASP:HB3	1:B:453:ARG:HG2	1.88	0.55
1:B:668:MET:CG	1:B:671:ALA:HB3	2.36	0.55
1:B:673:THR:CA	1:B:677:LYS:HZ2	2.20	0.55
1:B:724:ARG:CZ	1:B:724:ARG:CA	2.85	0.55
1:A:20:PHE:C	1:A:22:ILE:N	2.60	0.55
1:A:53:LEU:C	1:A:54:TRP:CE3	2.85	0.55
1:A:74:ALA:HB2	1:A:85:LEU:HD11	1.88	0.55
1:A:180:TYR:CD1	1:A:180:TYR:C	2.84	0.55
1:A:333:LEU:HD22	1:A:334:ARG:N	2.22	0.55
1:A:748:LYS:CE	1:A:748:LYS:CA	2.85	0.55
1:B:86:VAL:HB	1:B:191:ARG:HD3	1.88	0.55
1:B:86:VAL:CB	1:B:191:ARG:CG	2.85	0.55
1:B:343:ILE:CD1	1:B:497:HIS:CE1	2.89	0.55
1:B:349:ILE:HD11	1:B:351:HIS:CA	2.35	0.55
1:B:393:ILE:HA	1:B:612:LEU:HD11	1.87	0.55
1:B:705:ARG:CB	1:B:707:LEU:HD13	2.32	0.55
1:B:707:LEU:O	1:B:710:ASP:OD1	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:733:GLN:NE2	1:B:739:SER:O	2.40	0.55
1:A:176:ARG:HE	1:A:447:ARG:HD3	1.72	0.55
1:A:303:ARG:HE	1:A:304:ALA:H	1.54	0.55
1:A:314:SER:CB	1:A:318:ILE:C	2.59	0.55
1:A:349:ILE:HD11	1:A:356:SER:CB	2.37	0.55
1:A:459:ILE:CG1	1:A:486:TYR:HE2	2.16	0.55
1:A:498:ASN:HD21	1:A:522:VAL:HA	1.69	0.55
1:A:503:VAL:HG21	1:A:518:LEU:C	2.32	0.55
1:A:528:ILE:HG22	1:A:530:VAL:HG12	1.87	0.55
1:A:532:TYR:CE2	1:A:533:ASN:CB	2.86	0.55
1:A:595:VAL:HG21	1:A:698:ILE:HD12	1.87	0.55
1:B:92:TYR:CD2	1:B:146:PHE:CB	2.89	0.55
1:B:102:ILE:HA	1:B:105:LYS:HB2	1.88	0.55
1:B:144:GLU:O	1:B:147:HIS:CB	2.53	0.55
1:B:216:ALA:CA	1:B:217:LYS:CG	2.84	0.55
1:B:260:LEU:CD2	1:B:276:ARG:HH12	2.12	0.55
1:B:322:ILE:O	1:B:325:MET:HG2	2.06	0.55
1:B:359:VAL:HG13	1:B:418:THR:HG21	1.88	0.55
1:B:479:LEU:CG	1:B:483:MET:SD	2.94	0.55
1:B:512:GLU:C	1:B:514:GLY:H	2.15	0.55
1:B:593:TYR:CE2	1:B:726:TRP:CD1	2.92	0.55
1:B:607:LYS:N	1:B:609:PHE:CB	2.69	0.55
1:B:668:MET:HG2	1:B:671:ALA:CB	2.37	0.55
1:A:50:SER:HA	1:A:564:LYS:HZ1	1.70	0.55
1:A:104:ARG:CB	1:A:104:ARG:CZ	2.85	0.55
1:A:170:TYR:CZ	1:A:576:HIS:CE1	2.78	0.55
1:A:447:ARG:HB3	1:A:448:ASP:OD1	2.07	0.55
1:A:608:GLU:O	1:A:609:PHE:C	2.49	0.55
1:A:623:ILE:HD12	1:A:624:LEU:N	2.19	0.55
1:B:2:PHE:CD1	1:B:2:PHE:C	2.85	0.55
1:B:9:LEU:HD22	1:B:16:LEU:HB3	1.86	0.55
1:B:117:ALA:HB1	1:B:222:PRO:CG	2.35	0.55
1:B:164:ILE:HG23	1:B:165:LEU:CD1	2.35	0.55
1:B:349:ILE:HD11	1:B:351:HIS:C	2.31	0.55
1:B:358:VAL:CG2	1:B:438:THR:CG2	2.85	0.55
1:B:533:ASN:CB	1:B:535:ILE:CD1	2.85	0.55
1:B:623:ILE:O	1:B:625:LYS:CG	2.55	0.55
1:A:38:LEU:CD2	1:A:39:GLN:N	2.66	0.55
1:A:197:ARG:C	1:A:199:LEU:H	2.14	0.55
1:A:283:GLN:O	1:A:283:GLN:HG3	2.07	0.55
1:A:359:VAL:CG2	1:A:639:TRP:CH2	2.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:ARG:HD3	1:A:538:GLY:O	1.88	0.55
1:A:571:HIS:O	1:A:572:THR:O	2.25	0.55
1:A:640:PHE:HD1	1:A:640:PHE:H	1.55	0.55
1:A:715:HIS:HD2	1:B:388:ASP:OD2	1.84	0.55
1:B:35:GLN:CB	1:B:502:VAL:CG2	2.85	0.55
1:B:73:TYR:HA	1:B:76:ALA:CB	2.35	0.55
1:B:89:PHE:CE1	1:B:146:PHE:CD2	2.94	0.55
1:B:103:TRP:CD1	1:B:227:GLN:O	2.59	0.55
1:B:127:PRO:HA	1:B:130:ALA:CB	2.31	0.55
1:B:259:ARG:CB	1:B:269:LEU:HD13	2.37	0.55
1:B:586:GLU:O	1:B:622:ARG:CG	2.54	0.55
1:B:590:GLU:HA	1:B:608:GLU:HB3	0.69	0.55
1:A:2:PHE:CZ	1:A:459:ILE:CG2	2.81	0.55
1:A:6:VAL:HG11	1:A:531:GLY:N	2.17	0.55
1:A:44:PHE:CE1	1:A:290:LEU:CD2	2.84	0.55
1:A:45:SER:OG	1:A:332:LYS:HA	2.05	0.55
1:A:276:ARG:HB3	1:A:281:ILE:CG1	2.32	0.55
1:A:419:ALA:C	1:A:421:TYR:CD1	2.84	0.55
1:A:435:ALA:HB3	1:A:437:MET:HE3	1.88	0.55
1:A:505:GLU:HA	1:A:515:SER:O	2.07	0.55
1:A:523:ARG:C	1:A:539:SER:HA	2.32	0.55
1:A:541:ARG:HE	1:A:541:ARG:N	2.05	0.55
1:A:595:VAL:HG21	1:A:698:ILE:CG1	2.37	0.55
1:A:732:LEU:CB	1:A:738:LEU:HD21	2.36	0.55
1:B:47:SER:CB	1:B:332:LYS:CE	2.85	0.55
1:B:87:ASN:HA	1:B:90:THR:OG1	2.07	0.55
1:B:93:HIS:CA	1:B:237:PHE:CD1	2.87	0.55
1:B:97:ALA:CB	1:B:234:THR:CG2	2.85	0.55
1:B:188:ASP:O	1:B:189:CYS:C	2.48	0.55
1:B:216:ALA:HA	1:B:217:LYS:CB	2.37	0.55
1:B:259:ARG:CA	1:B:269:LEU:CD1	2.85	0.55
1:B:260:LEU:HD22	1:B:276:ARG:NH1	2.15	0.55
1:B:289:ALA:CB	1:B:492:HIS:NE2	2.69	0.55
1:B:373:PHE:N	1:B:622:ARG:O	2.40	0.55
1:B:451:LEU:HB3	1:B:453:ARG:NE	2.22	0.55
1:B:482:SER:HA	1:B:485:ASN:HD21	1.72	0.55
1:B:506:HIS:CB	1:B:517:TYR:HH	2.09	0.55
1:A:40:PHE:CB	1:A:288:LEU:HB3	2.34	0.54
1:A:104:ARG:HB3	1:A:104:ARG:CZ	2.38	0.54
1:A:278:THR:CG2	1:A:281:ILE:CG1	2.85	0.54
1:A:287:ASN:HD22	1:A:290:LEU:CG	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:363:ASP:O	1:A:364:TRP:CD1	2.59	0.54
1:B:153:PHE:CZ	1:B:202:LEU:C	2.85	0.54
1:B:158:LEU:CA	1:B:159:SER:C	2.74	0.54
1:B:211:GLN:HE22	1:B:214:PHE:HZ	1.54	0.54
1:B:288:LEU:HD23	1:B:492:HIS:CD2	2.42	0.54
1:B:361:TYR:CD2	1:B:414:VAL:CG1	2.85	0.54
1:B:448:ASP:CB	1:B:453:ARG:HG3	2.38	0.54
1:B:520:TRP:CZ3	1:B:548:ALA:CB	2.90	0.54
1:A:20:PHE:O	1:A:20:PHE:HD1	1.91	0.54
1:A:56:VAL:CG2	1:A:66:TYR:CE1	2.88	0.54
1:A:127:PRO:CA	1:A:166:PRO:HB2	2.13	0.54
1:A:131:ILE:O	1:A:133:GLU:N	2.40	0.54
1:A:213:THR:HG22	1:A:220:LEU:HD23	1.88	0.54
1:A:288:LEU:O	1:A:291:PHE:CA	2.55	0.54
1:A:346:THR:OG1	1:A:358:VAL:C	2.48	0.54
1:A:352:MET:HB3	1:A:429:THR:HG1	1.68	0.54
1:A:362:GLU:OE2	1:A:559:GLU:HB3	2.06	0.54
1:A:363:ASP:C	1:A:561:LEU:O	2.51	0.54
1:A:435:ALA:CB	1:A:437:MET:CE	2.86	0.54
1:A:498:ASN:CB	1:A:522:VAL:HG12	2.36	0.54
1:A:669:GLN:HG2	1:A:670:ASN:H	1.72	0.54
1:A:671:ALA:O	1:A:674:LEU:HD12	2.07	0.54
1:B:71:PHE:C	1:B:71:PHE:HD1	2.15	0.54
1:B:216:ALA:N	1:B:220:LEU:HD12	2.22	0.54
1:B:244:PHE:CZ	1:B:318:ILE:CA	2.65	0.54
1:B:401:LEU:CB	1:B:404:ILE:HD12	2.37	0.54
1:B:522:VAL:O	1:B:540:ILE:HG13	2.08	0.54
1:B:522:VAL:CA	1:B:539:SER:HB3	2.37	0.54
1:B:543:PRO:HG2	1:B:544:GLU:H	1.72	0.54
1:B:608:GLU:C	1:B:609:PHE:CD1	2.85	0.54
1:B:694:ALA:CA	1:B:697:ARG:NH2	2.70	0.54
1:B:704:GLY:N	1:B:708:ILE:CD1	2.70	0.54
1:A:18:GLN:CD	1:A:520:TRP:CH2	2.80	0.54
1:A:52:LEU:CB	1:A:174:VAL:CG1	2.85	0.54
1:A:257:LEU:C	1:A:261:TRP:CE3	2.85	0.54
1:A:287:ASN:ND2	1:A:290:LEU:CD1	2.70	0.54
1:A:316:THR:O	1:A:320:TRP:HB3	2.08	0.54
1:A:361:TYR:CE2	1:A:410:VAL:HG11	2.41	0.54
1:A:505:GLU:HA	1:A:516:LEU:HA	1.90	0.54
1:A:660:LYS:HG2	1:A:661:LEU:HD22	1.88	0.54
1:B:14:ARG:HG2	1:B:14:ARG:NH1	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:69:LEU:CD1	1:B:172:TYR:CD1	2.91	0.54
1:B:114:SER:OG	1:B:222:PRO:HB2	2.08	0.54
1:B:119:LYS:NZ	1:B:218:GLY:N	2.55	0.54
1:B:361:TYR:CB	1:B:414:VAL:CG1	2.86	0.54
1:B:505:GLU:HA	1:B:506:HIS:O	2.07	0.54
1:B:594:SER:HB3	1:B:603:THR:CA	2.37	0.54
1:B:666:ARG:CG	1:B:669:GLN:HE21	2.20	0.54
1:A:181:PRO:HB2	1:A:484:PHE:CD2	2.42	0.54
1:A:224:LEU:O	1:A:228:HIS:HB2	2.06	0.54
1:A:312:GLU:O	1:A:312:GLU:HG3	2.07	0.54
1:A:332:LYS:HE3	1:A:339:THR:CB	2.36	0.54
1:A:342:TYR:HD1	1:A:362:GLU:OE1	1.90	0.54
1:A:359:VAL:HG13	1:A:438:THR:O	2.06	0.54
1:A:365:GLN:HG2	1:A:367:ALA:CB	2.38	0.54
1:A:370:ILE:HD12	1:A:370:ILE:C	2.32	0.54
1:A:374:THR:CG2	1:A:620:ARG:CZ	2.86	0.54
1:A:387:LEU:CD1	1:A:577:ILE:CG2	2.84	0.54
1:A:593:TYR:HB3	1:A:726:TRP:CD1	2.42	0.54
1:B:6:VAL:CG2	1:B:530:VAL:CA	2.85	0.54
1:B:199:LEU:O	1:B:202:LEU:C	2.50	0.54
1:B:444:VAL:CG1	1:B:486:TYR:CD1	2.86	0.54
1:B:535:ILE:CG1	1:B:540:ILE:CA	2.85	0.54
1:B:654:SER:CB	1:B:659:GLU:CG	2.59	0.54
1:B:670:ASN:ND2	1:B:749:VAL:CB	2.65	0.54
1:B:676:ARG:HH11	1:B:676:ARG:HG2	1.73	0.54
1:B:712:SER:OG	1:B:715:HIS:ND1	2.30	0.54
1:A:46:ALA:H	1:A:334:ARG:NH2	2.05	0.54
1:A:143:HIS:CB	1:A:145:LEU:HD11	2.24	0.54
1:A:275:LEU:O	1:A:278:THR:HG22	2.08	0.54
1:A:337:ASN:HA	1:A:340:THR:HG21	1.87	0.54
1:A:361:TYR:CE2	1:A:410:VAL:HG21	2.42	0.54
1:A:643:ASP:O	1:A:646:THR:N	2.41	0.54
1:B:46:ALA:HB2	1:B:178:ALA:O	2.08	0.54
1:B:94:GLN:CB	1:B:237:PHE:CE2	2.85	0.54
1:B:144:GLU:O	1:B:147:HIS:CA	2.56	0.54
1:B:213:THR:O	1:B:220:LEU:CD2	2.55	0.54
1:B:216:ALA:HB1	1:B:217:LYS:CB	2.37	0.54
1:B:318:ILE:N	1:B:319:PRO:HD2	2.22	0.54
1:B:350:ASP:OD1	1:B:429:THR:N	2.40	0.54
1:B:375:PRO:C	1:B:377:LYS:N	2.64	0.54
1:B:377:LYS:HB3	1:B:385:ARG:NE	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:623:ILE:HG23	1:B:625:LYS:CB	2.37	0.54
1:B:712:SER:HG	1:B:715:HIS:N	2.06	0.54
1:B:753:SER:O	1:B:755:ALA:HB2	2.07	0.54
1:A:6:VAL:CG1	1:A:531:GLY:CA	2.85	0.54
1:A:101:GLU:HA	1:A:104:ARG:HD2	1.49	0.54
1:A:101:GLU:OE1	1:A:101:GLU:N	2.40	0.54
1:A:119:LYS:HA	1:A:219:ALA:CA	2.18	0.54
1:A:535:ILE:CG1	1:A:540:ILE:CD1	2.85	0.54
1:A:708:ILE:HB	1:A:711:SER:OG	2.07	0.54
1:B:22:ILE:CG2	1:B:517:TYR:CD1	2.90	0.54
1:B:43:THR:CG2	1:B:289:ALA:HB3	2.27	0.54
1:B:125:LYS:HB3	1:B:165:LEU:O	2.07	0.54
1:B:324:ALA:CB	1:B:333:LEU:CD2	2.85	0.54
1:B:354:GLN:HB3	1:B:528:ILE:CG2	2.24	0.54
1:B:385:ARG:O	1:B:386:PHE:CD1	2.61	0.54
1:B:535:ILE:HG12	1:B:540:ILE:C	2.33	0.54
1:B:568:LEU:CD1	1:B:572:THR:CB	2.81	0.54
1:B:756:LEU:HD12	1:B:756:LEU:C	2.32	0.54
1:B:757:GLY:C	1:B:759:VAL:N	2.63	0.54
1:A:128:PRO:HB3	1:A:166:PRO:C	2.32	0.54
1:A:152:ASP:O	1:A:156:HIS:N	2.39	0.54
1:A:212:ALA:CB	1:A:221:ALA:CA	2.86	0.54
1:A:234:THR:CG2	1:A:237:PHE:CB	2.86	0.54
1:A:349:ILE:HD11	1:A:356:SER:HB2	1.88	0.54
1:B:30:SER:HB2	1:B:517:TYR:CE2	2.42	0.54
1:B:31:VAL:HG13	1:B:32:GLY:N	2.21	0.54
1:B:79:ALA:HB3	1:B:84:GLU:OE1	2.08	0.54
1:B:243:ASN:HD22	1:B:244:PHE:CB	2.13	0.54
1:B:261:TRP:HB3	1:B:291:PHE:HE2	1.71	0.54
1:A:303:ARG:CD	1:A:304:ALA:H	2.20	0.54
1:A:408:PHE:CD2	1:A:636:TRP:HE1	1.51	0.54
1:A:542:THR:HG23	1:A:545:PRO:HA	1.90	0.54
1:A:553:LYS:HE3	1:A:554:PRO:HD2	1.90	0.54
1:A:568:LEU:CD1	1:A:569:ALA:H	2.21	0.54
1:A:729:LEU:O	1:A:732:LEU:N	2.41	0.54
1:A:738:LEU:C	1:A:739:SER:HG	2.14	0.54
1:B:58:LYS:H	1:B:58:LYS:HD3	1.73	0.54
1:B:101:GLU:HA	1:B:104:ARG:HB2	1.90	0.54
1:B:105:LYS:HZ2	1:B:108:ALA:HB2	1.71	0.54
1:B:105:LYS:NZ	1:B:108:ALA:HB2	2.23	0.54
1:B:291:PHE:HD1	1:B:291:PHE:O	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:308:PHE:CD1	1:B:308:PHE:C	2.85	0.54
1:B:575:ILE:CB	1:B:576:HIS:CB	2.85	0.54
1:B:754:ASN:O	1:B:755:ALA:HB3	2.08	0.54
1:A:37:PRO:HB2	1:A:501:VAL:CG2	2.36	0.54
1:A:75:GLN:CD	1:A:177:THR:OG1	2.51	0.54
1:A:82:VAL:N	1:A:85:LEU:HD23	2.18	0.54
1:A:89:PHE:HD2	1:A:146:PHE:CD2	2.24	0.54
1:A:173:ARG:HG2	1:A:579:PRO:HB3	1.88	0.54
1:A:210:LEU:C	1:A:212:ALA:O	2.51	0.54
1:A:244:PHE:HE2	1:A:317:ILE:HD13	1.73	0.54
1:A:278:THR:CG2	1:A:281:ILE:HG23	2.37	0.54
1:A:373:PHE:HE1	1:A:622:ARG:HB2	1.72	0.54
1:A:467:VAL:HG13	1:A:469:GLU:OE2	2.07	0.54
1:A:528:ILE:CG2	1:A:530:VAL:CG1	2.85	0.54
1:A:542:THR:O	1:A:544:GLU:N	2.41	0.54
1:A:566:LEU:HD12	1:A:567:ASP:CA	2.37	0.54
1:B:96:THR:CG2	1:B:234:THR:HG22	2.36	0.54
1:B:102:ILE:CB	1:B:135:LEU:HD21	2.36	0.54
1:B:118:ILE:C	1:B:221:ALA:HA	2.33	0.54
1:B:119:LYS:NZ	1:B:218:GLY:H	2.05	0.54
1:B:165:LEU:CB	1:B:166:PRO:HA	2.38	0.54
1:B:183:PHE:CE2	1:B:301:ARG:NH1	2.75	0.54
1:B:493:TYR:CE1	1:B:497:HIS:NE2	2.74	0.54
1:B:578:TRP:CD1	1:B:579:PRO:N	2.76	0.54
1:B:597:ILE:HG13	1:B:713:ASP:O	2.08	0.54
1:B:678:ILE:HD12	1:B:679:GLU:CA	2.37	0.54
1:B:695:GLN:HA	1:B:695:GLN:OE1	2.08	0.54
1:A:15:GLY:HA2	1:A:20:PHE:CD2	2.36	0.54
1:A:34:LEU:HD11	1:A:35:GLN:HG3	1.89	0.54
1:A:82:VAL:CA	1:A:85:LEU:CG	2.51	0.54
1:A:128:PRO:CG	1:A:129:THR:CB	2.85	0.54
1:A:133:GLU:OE1	1:A:133:GLU:HA	2.08	0.54
1:A:365:GLN:N	1:A:562:GLN:CB	2.71	0.54
1:A:396:ARG:HH11	1:A:396:ARG:HG3	1.73	0.54
1:A:532:TYR:CD2	1:A:533:ASN:N	2.76	0.54
1:A:673:THR:O	1:A:677:LYS:HG3	2.08	0.54
1:B:158:LEU:HB3	1:B:206:ASP:OD1	2.08	0.54
1:B:297:MET:HE3	1:B:301:ARG:NH2	2.23	0.54
1:B:681:ILE:HG22	1:B:731:VAL:CG2	2.37	0.54
1:B:693:LEU:CG	1:B:697:ARG:HH22	2.20	0.54
1:B:707:LEU:HD21	1:B:708:ILE:HG23	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:708:ILE:HD12	1:B:709:ASP:CA	2.38	0.54
1:A:193:SER:OG	1:A:323:GLU:HG2	2.08	0.53
1:A:248:ALA:O	1:A:251:SER:N	2.42	0.53
1:A:365:GLN:N	1:A:562:GLN:HB2	2.22	0.53
1:A:683:THR:C	1:A:684:THR:HG22	2.33	0.53
1:B:114:SER:OG	1:B:222:PRO:HG2	2.07	0.53
1:B:288:LEU:O	1:B:292:ILE:CD1	2.56	0.53
1:B:321:PHE:CD1	1:B:322:ILE:O	2.60	0.53
1:B:452:ASP:C	1:B:453:ARG:HH11	2.16	0.53
1:B:456:MET:CG	1:B:457:VAL:N	2.70	0.53
1:B:504:SER:H	1:B:517:TYR:H	1.54	0.53
1:B:568:LEU:HD13	1:B:572:THR:CA	2.38	0.53
1:A:40:PHE:CB	1:A:288:LEU:CB	2.85	0.53
1:A:69:LEU:O	1:A:72:GLN:HB2	2.09	0.53
1:A:337:ASN:O	1:A:340:THR:OG1	2.23	0.53
1:A:345:GLN:C	1:A:360:VAL:HG12	2.33	0.53
1:A:439:LEU:N	1:A:439:LEU:CD2	2.71	0.53
1:A:455:PRO:CA	1:A:458:ALA:CB	2.86	0.53
1:A:491:MET:O	1:A:494:ALA:N	2.42	0.53
1:A:614:LEU:HD23	1:A:615:GLY:N	2.22	0.53
1:A:663:ILE:HD12	1:A:664:ASP:HA	1.89	0.53
1:A:729:LEU:HD13	1:A:733:GLN:CB	2.37	0.53
1:B:66:TYR:O	1:B:67:ALA:C	2.50	0.53
1:B:228:HIS:O	1:B:231:ASN:ND2	2.36	0.53
1:B:249:VAL:HG13	1:B:250:VAL:N	2.23	0.53
1:B:324:ALA:HB1	1:B:333:LEU:HD23	1.90	0.53
1:B:366:PHE:HZ	1:B:408:PHE:HB2	1.73	0.53
1:B:445:VAL:CG1	1:B:635:MET:SD	2.89	0.53
1:B:476:SER:O	1:B:479:LEU:HD23	2.08	0.53
1:B:587:PHE:CA	1:B:622:ARG:CD	2.84	0.53
1:B:639:TRP:CD1	1:B:639:TRP:C	2.85	0.53
1:A:518:LEU:N	1:A:518:LEU:CD2	2.71	0.53
1:A:568:LEU:HD13	1:A:569:ALA:N	2.24	0.53
1:A:600:LYS:CB	1:A:602:TYR:HE1	2.19	0.53
1:A:671:ALA:HA	1:A:674:LEU:CG	2.38	0.53
1:B:22:ILE:HG12	1:B:517:TYR:HB3	1.90	0.53
1:B:29:LEU:O	1:B:30:SER:C	2.50	0.53
1:B:44:PHE:CE1	1:B:332:LYS:O	2.62	0.53
1:B:70:PHE:O	1:B:82:VAL:HG13	2.09	0.53
1:B:118:ILE:CG1	1:B:119:LYS:N	2.67	0.53
1:B:126:VAL:H	1:B:128:PRO:HD3	1.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:GLU:CD	1:B:143:HIS:N	2.65	0.53
1:B:453:ARG:HH11	1:B:453:ARG:CA	2.22	0.53
1:B:589:TYR:HB3	1:B:734:MET:HE3	1.89	0.53
1:A:44:PHE:CB	1:A:333:LEU:CD2	2.85	0.53
1:A:56:VAL:HG22	1:A:66:TYR:CD1	2.43	0.53
1:A:265:THR:HG23	1:A:267:LYS:CB	2.38	0.53
1:A:343:ILE:HG13	1:A:344:GLY:N	2.19	0.53
1:A:441:PHE:O	1:A:445:VAL:HG23	2.09	0.53
1:A:493:TYR:CD1	1:A:493:TYR:C	2.86	0.53
1:A:523:ARG:C	1:A:539:SER:CA	2.82	0.53
1:A:544:GLU:HB3	1:A:545:PRO:O	2.09	0.53
1:A:589:TYR:CG	1:A:590:GLU:N	2.75	0.53
1:B:44:PHE:N	1:B:289:ALA:HB3	2.24	0.53
1:B:61:ILE:CD1	1:B:156:HIS:CA	2.85	0.53
1:B:321:PHE:CE1	1:B:325:MET:SD	2.97	0.53
1:B:339:THR:HG21	1:B:496:ALA:CB	2.39	0.53
1:B:350:ASP:HB2	1:B:429:THR:H	1.73	0.53
1:B:383:ASN:N	1:B:383:ASN:OD1	2.41	0.53
1:B:501:VAL:CG1	1:B:520:TRP:CD1	2.85	0.53
1:B:520:TRP:O	1:B:541:ARG:HD2	2.07	0.53
1:B:535:ILE:HG21	1:B:539:SER:CA	2.38	0.53
1:B:735:MET:CG	1:B:737:LEU:CD1	2.85	0.53
1:A:20:PHE:CD1	1:A:20:PHE:C	2.85	0.53
1:A:34:LEU:HG	1:A:35:GLN:CG	2.38	0.53
1:A:143:HIS:CD2	1:A:143:HIS:N	2.77	0.53
1:A:176:ARG:NH1	1:A:446:GLU:CA	2.68	0.53
1:A:213:THR:CG2	1:A:220:LEU:CD2	2.86	0.53
1:A:230:ALA:HA	1:A:233:ALA:CB	2.37	0.53
1:A:286:SER:C	1:A:288:LEU:N	2.62	0.53
1:A:410:VAL:CG1	1:A:411:SER:H	2.19	0.53
1:A:457:VAL:O	1:A:460:ALA:HB2	2.08	0.53
1:A:547:GLU:O	1:A:550:ALA:N	2.41	0.53
1:A:577:ILE:HD12	1:A:579:PRO:HD2	1.91	0.53
1:A:587:PHE:CE2	1:A:621:VAL:C	2.87	0.53
1:B:24:GLU:CA	1:B:506:HIS:NE2	2.70	0.53
1:B:42:ARG:CZ	1:B:337:ASN:N	2.72	0.53
1:B:42:ARG:CD	1:B:337:ASN:N	2.71	0.53
1:B:196:ARG:HH11	1:B:196:ARG:CG	2.18	0.53
1:B:259:ARG:CB	1:B:269:LEU:CD1	2.87	0.53
1:B:321:PHE:CA	1:B:325:MET:CE	2.75	0.53
1:B:343:ILE:HD12	1:B:497:HIS:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:ARG:HD2	1:B:612:LEU:O	2.07	0.53
1:B:498:ASN:HD22	1:B:499:PRO:N	2.07	0.53
1:B:516:LEU:HD22	1:B:516:LEU:N	2.23	0.53
1:A:49:THR:O	1:A:50:SER:CB	2.55	0.53
1:A:52:LEU:N	1:A:174:VAL:CG1	2.72	0.53
1:A:63:PRO:HB2	1:A:64:VAL:HG23	1.91	0.53
1:A:85:LEU:CD2	1:A:85:LEU:N	2.71	0.53
1:A:99:ASN:OD1	1:A:101:GLU:OE1	2.16	0.53
1:A:355:PRO:CG	1:A:529:PRO:HG3	2.35	0.53
1:A:744:GLU:HA	1:A:747:THR:HG21	1.84	0.53
1:B:14:ARG:CD	1:B:26:LYS:CD	2.86	0.53
1:B:84:GLU:O	1:B:87:ASN:N	2.42	0.53
1:B:312:GLU:OE1	1:B:313:LEU:N	2.42	0.53
1:B:401:LEU:O	1:B:404:ILE:CG1	2.57	0.53
1:B:404:ILE:HD12	1:B:735:MET:HG3	1.73	0.53
1:B:472:GLU:HB3	1:B:475:ALA:H	1.73	0.53
1:B:593:TYR:CE1	1:B:722:ARG:NE	2.76	0.53
1:B:593:TYR:HE2	1:B:723:ILE:HB	1.74	0.53
1:B:606:VAL:HG23	1:B:693:LEU:HD21	1.89	0.53
1:B:688:ALA:HA	1:B:691:VAL:HG23	1.91	0.53
1:A:4:LEU:CB	1:A:13:ALA:CB	2.70	0.53
1:A:157:VAL:HG11	1:A:228:HIS:CE1	2.44	0.53
1:A:346:THR:HB	1:A:359:VAL:N	2.23	0.53
1:A:517:TYR:CZ	1:A:520:TRP:CE3	2.94	0.53
1:A:554:PRO:O	1:A:555:ILE:HG12	2.09	0.53
1:A:677:LYS:HA	1:A:680:MET:HG2	1.91	0.53
1:B:125:LYS:CA	1:B:165:LEU:CD2	2.87	0.53
1:B:593:TYR:N	1:B:726:TRP:CZ2	2.77	0.53
1:A:110:ILE:N	1:A:110:ILE:CD1	2.72	0.53
1:A:129:THR:O	1:A:132:LEU:HB2	2.08	0.53
1:A:322:ILE:HG22	1:A:325:MET:HE2	1.90	0.53
1:A:352:MET:SD	1:A:429:THR:CB	2.97	0.53
1:A:449:TYR:HA	1:A:454:ASP:H	1.73	0.53
1:A:502:VAL:HA	1:A:503:VAL:HB	1.90	0.53
1:B:132:LEU:HD21	1:B:150:THR:OG1	2.08	0.53
1:B:302:GLY:CA	1:B:303:ARG:HH11	2.10	0.53
1:B:317:ILE:C	1:B:320:TRP:H	2.02	0.53
1:B:396:ARG:HB3	1:B:612:LEU:CD2	2.39	0.53
1:B:753:SER:O	1:B:755:ALA:CA	2.56	0.53
1:A:56:VAL:CG2	1:A:66:TYR:CD1	2.92	0.53
1:A:179:THR:HG21	1:A:488:ALA:HB1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:MET:O	1:A:327:GLU:HG3	2.09	0.53
1:A:413:PHE:CD1	1:A:413:PHE:C	2.86	0.53
1:A:432:SER:O	1:A:433:ASN:CB	2.57	0.53
1:A:585:THR:CB	1:A:586:GLU:HA	2.29	0.53
1:A:690:ALA:C	1:A:693:LEU:HB2	2.31	0.53
1:B:349:ILE:HG22	1:B:421:TYR:OH	2.09	0.53
1:B:400:THR:CG2	1:B:686:ILE:CD1	2.85	0.53
1:B:462:LEU:CD1	1:B:463:ARG:H	2.22	0.53
1:B:504:SER:O	1:B:517:TYR:N	2.42	0.53
1:B:643:ASP:OD2	1:B:666:ARG:CB	2.54	0.53
1:B:724:ARG:CB	1:B:724:ARG:CZ	2.86	0.53
1:A:4:LEU:CD2	1:A:13:ALA:HB3	2.39	0.53
1:A:44:PHE:HB2	1:A:334:ARG:H	1.72	0.53
1:A:44:PHE:HE1	1:A:290:LEU:HB3	1.75	0.53
1:A:108:ALA:O	1:A:112:GLY:C	2.52	0.53
1:A:241:ARG:CG	1:A:242:GLY:N	2.72	0.53
1:A:352:MET:CE	1:A:428:GLY:H	2.09	0.53
1:A:383:ASN:C	1:A:384:GLN:O	2.48	0.53
1:A:498:ASN:ND2	1:A:522:VAL:CA	2.71	0.53
1:A:588:ALA:HB1	1:A:589:TYR:CA	2.37	0.53
1:A:754:ASN:HB3	1:A:755:ALA:CA	2.39	0.53
1:B:36:LEU:HB3	1:B:37:PRO:HD2	1.90	0.53
1:B:92:TYR:HD2	1:B:146:PHE:CG	2.18	0.53
1:B:308:PHE:HE1	1:B:319:PRO:HD3	1.74	0.53
1:B:312:GLU:CG	1:B:313:LEU:N	2.72	0.53
1:B:361:TYR:CD1	1:B:361:TYR:C	2.87	0.53
1:B:408:PHE:CE1	1:B:633:ILE:HD13	2.43	0.53
1:B:451:LEU:O	1:B:451:LEU:HD12	2.09	0.53
1:B:459:ILE:O	1:B:462:LEU:HB3	2.08	0.53
1:B:552:ASN:HA	1:B:553:LYS:NZ	2.24	0.53
1:B:623:ILE:HG23	1:B:625:LYS:HB3	1.89	0.53
1:B:707:LEU:CD2	1:B:708:ILE:HG23	2.39	0.53
1:B:719:ASN:HD21	1:B:720:ARG:HG3	1.72	0.53
1:B:756:LEU:HB3	1:B:758:MET:HA	1.90	0.53
1:A:42:ARG:HD3	1:A:334:ARG:O	2.09	0.52
1:A:78:GLY:O	1:A:80:LEU:HD23	2.09	0.52
1:A:88:GLN:O	1:A:91:GLU:HB3	2.08	0.52
1:A:213:THR:HG21	1:A:220:LEU:CD2	2.38	0.52
1:A:294:TYR:CE1	1:A:516:LEU:N	2.75	0.52
1:A:363:ASP:O	1:A:561:LEU:O	2.27	0.52
1:A:523:ARG:CA	1:A:539:SER:CB	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:627:THR:OG1	1:A:628:VAL:CA	2.56	0.52
1:A:686:ILE:HG13	1:A:686:ILE:O	2.07	0.52
1:B:44:PHE:N	1:B:289:ALA:CB	2.72	0.52
1:B:72:GLN:CD	1:B:174:VAL:HG12	2.35	0.52
1:B:282:ASP:C	1:B:285:ARG:HG3	2.33	0.52
1:B:358:VAL:CG2	1:B:438:THR:HB	2.38	0.52
1:B:358:VAL:CG2	1:B:438:THR:N	2.70	0.52
1:B:535:ILE:CD1	1:B:540:ILE:CA	2.87	0.52
1:B:604:ALA:HB1	1:B:697:ARG:HB3	1.91	0.52
1:B:623:ILE:HD13	1:B:623:ILE:C	2.34	0.52
1:B:630:HIS:CD2	1:B:634:GLN:HE22	2.28	0.52
1:B:703:ALA:HA	1:B:708:ILE:HD13	1.88	0.52
1:A:16:LEU:HD11	1:A:463:ARG:N	2.24	0.52
1:A:265:THR:CG2	1:A:267:LYS:N	2.73	0.52
1:A:349:ILE:CD1	1:A:357:HIS:N	2.72	0.52
1:A:404:ILE:HD12	1:A:681:ILE:HD12	1.88	0.52
1:A:433:ASN:CB	1:A:434:GLY:CA	2.85	0.52
1:A:448:ASP:HB2	1:A:453:ARG:HB2	1.88	0.52
1:B:10:ASN:O	1:B:26:LYS:NZ	2.41	0.52
1:B:68:ARG:NH1	1:B:68:ARG:CA	2.73	0.52
1:B:79:ALA:CB	1:B:80:LEU:CD2	2.85	0.52
1:B:96:THR:HG22	1:B:234:THR:CG2	2.36	0.52
1:B:97:ALA:CA	1:B:234:THR:CG2	2.84	0.52
1:B:136:ARG:NH1	1:B:147:HIS:CD2	2.78	0.52
1:B:156:HIS:CD2	1:B:158:LEU:CB	2.85	0.52
1:B:156:HIS:HB3	1:B:206:ASP:OD2	2.09	0.52
1:B:164:ILE:CG2	1:B:165:LEU:N	2.72	0.52
1:B:236:ALA:CA	1:B:239:ARG:NE	2.72	0.52
1:B:245:ASP:O	1:B:248:ALA:N	2.41	0.52
1:B:262:SER:HB2	1:B:269:LEU:CD2	2.39	0.52
1:B:329:SER:HG	1:B:331:PHE:H	1.49	0.52
1:B:520:TRP:C	1:B:541:ARG:HD2	2.34	0.52
1:B:535:ILE:HD11	1:B:540:ILE:C	2.34	0.52
1:B:552:ASN:CA	1:B:553:LYS:NZ	2.73	0.52
1:B:580:TRP:CE2	1:B:581:HIS:CB	2.92	0.52
1:B:597:ILE:HD12	1:B:713:ASP:O	2.09	0.52
1:B:693:LEU:CD2	1:B:697:ARG:NH2	2.72	0.52
1:A:52:LEU:HA	1:A:53:LEU:CD2	2.34	0.52
1:A:58:LYS:HB3	1:A:58:LYS:NZ	2.24	0.52
1:A:127:PRO:HG3	1:A:130:ALA:CB	2.35	0.52
1:A:176:ARG:NE	1:A:447:ARG:CD	2.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:THR:N	1:A:180:TYR:HA	2.25	0.52
1:A:221:ALA:O	1:A:222:PRO:C	2.52	0.52
1:A:287:ASN:ND2	1:A:290:LEU:CD2	2.72	0.52
1:A:313:LEU:CA	1:A:315:SER:HB3	2.30	0.52
1:A:377:LYS:HE2	1:A:377:LYS:O	2.08	0.52
1:A:377:LYS:CE	1:A:379:ALA:N	2.71	0.52
1:A:448:ASP:CB	1:A:455:PRO:CG	2.85	0.52
1:A:503:VAL:CB	1:A:519:VAL:N	2.72	0.52
1:B:38:LEU:CD2	1:B:501:VAL:CB	2.86	0.52
1:B:88:GLN:HE22	1:B:143:HIS:CG	2.25	0.52
1:B:125:LYS:CA	1:B:165:LEU:HD21	2.38	0.52
1:B:173:ARG:C	1:B:174:VAL:HG13	2.34	0.52
1:B:174:VAL:HG23	1:B:174:VAL:O	2.10	0.52
1:B:312:GLU:CG	1:B:313:LEU:H	2.20	0.52
1:B:343:ILE:CD1	1:B:497:HIS:NE2	2.72	0.52
1:B:364:TRP:CE3	1:B:442:PRO:HG2	2.43	0.52
1:B:456:MET:O	1:B:459:ILE:HB	2.09	0.52
1:B:505:GLU:CA	1:B:506:HIS:C	2.82	0.52
1:B:643:ASP:OD1	1:B:666:ARG:HG2	2.08	0.52
1:B:673:THR:HG22	1:B:677:LYS:HZ1	1.74	0.52
1:A:45:SER:CA	1:A:332:LYS:CB	2.87	0.52
1:A:62:ASP:CG	1:A:65:MET:HB2	2.34	0.52
1:A:104:ARG:CD	1:A:104:ARG:N	2.73	0.52
1:A:493:TYR:CD1	1:A:549:ILE:CD1	2.91	0.52
1:A:566:LEU:CD1	1:A:567:ASP:N	2.68	0.52
1:A:597:ILE:CD1	1:A:598:ARG:H	2.01	0.52
1:B:30:SER:OG	1:B:543:PRO:CG	2.52	0.52
1:B:41:THR:CG2	1:B:287:ASN:ND2	2.72	0.52
1:B:70:PHE:CG	1:B:85:LEU:HD21	2.45	0.52
1:B:75:GLN:NE2	1:B:177:THR:CB	2.73	0.52
1:B:84:GLU:CA	1:B:87:ASN:ND2	2.72	0.52
1:B:125:LYS:CD	1:B:163:PHE:CE1	2.91	0.52
1:B:158:LEU:HD12	1:B:210:LEU:CB	2.26	0.52
1:B:259:ARG:HB3	1:B:271:PRO:CG	2.39	0.52
1:B:362:GLU:CD	1:B:442:PRO:N	2.68	0.52
1:B:501:VAL:CB	1:B:520:TRP:CD1	2.92	0.52
1:B:530:VAL:CB	1:B:551:TYR:CZ	2.85	0.52
1:B:606:VAL:CG2	1:B:693:LEU:CD2	2.85	0.52
1:B:677:LYS:HE3	1:B:677:LYS:CA	2.39	0.52
1:A:128:PRO:CA	1:A:166:PRO:HG3	2.28	0.52
1:A:173:ARG:CG	1:A:579:PRO:CB	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:THR:HG23	1:A:267:LYS:N	2.24	0.52
1:A:307:ILE:CD1	1:A:308:PHE:CD1	2.86	0.52
1:A:319:PRO:CD	1:A:320:TRP:N	2.73	0.52
1:A:377:LYS:HE2	1:A:378:LEU:N	2.24	0.52
1:A:503:VAL:CG2	1:A:519:VAL:N	2.73	0.52
1:A:653:THR:HG22	1:A:655:ARG:HG3	1.91	0.52
1:B:228:HIS:CG	1:B:231:ASN:ND2	2.71	0.52
1:B:236:ALA:N	1:B:239:ARG:CZ	2.73	0.52
1:B:361:TYR:O	1:B:440:GLY:C	2.53	0.52
1:B:385:ARG:H	1:B:577:ILE:CG2	2.21	0.52
1:B:610:GLU:CB	1:B:614:LEU:O	2.57	0.52
1:B:681:ILE:CG2	1:B:731:VAL:HG13	2.23	0.52
1:B:705:ARG:H	1:B:708:ILE:CG1	2.22	0.52
1:B:719:ASN:O	1:B:721:HIS:N	2.42	0.52
1:A:44:PHE:CB	1:A:334:ARG:N	2.71	0.52
1:A:58:LYS:NZ	1:A:58:LYS:CB	2.73	0.52
1:A:159:SER:N	1:A:160:PRO:CD	2.73	0.52
1:A:282:ASP:O	1:A:285:ARG:CB	2.48	0.52
1:A:288:LEU:C	1:A:290:LEU:N	2.67	0.52
1:A:294:TYR:C	1:A:294:TYR:CD1	2.88	0.52
1:A:349:ILE:CG1	1:A:350:ASP:H	2.16	0.52
1:A:449:TYR:N	1:A:455:PRO:CD	2.73	0.52
1:A:649:ALA:CA	1:A:652:ARG:NH1	2.73	0.52
1:B:57:GLY:N	1:B:58:LYS:CE	2.73	0.52
1:B:58:LYS:N	1:B:58:LYS:CE	2.72	0.52
1:B:71:PHE:CE2	1:B:329:SER:CB	2.92	0.52
1:B:173:ARG:CG	1:B:173:ARG:NH1	2.72	0.52
1:B:244:PHE:HZ	1:B:318:ILE:CA	2.13	0.52
1:B:255:THR:CB	1:B:259:ARG:NH1	2.72	0.52
1:B:371:THR:N	1:B:623:ILE:HD11	2.20	0.52
1:B:384:GLN:C	1:B:385:ARG:HG2	2.35	0.52
1:B:575:ILE:HB	1:B:576:HIS:C	2.34	0.52
1:B:590:GLU:CB	1:B:607:LYS:HB3	2.40	0.52
1:B:593:TYR:CD2	1:B:726:TRP:HB2	2.45	0.52
1:B:633:ILE:CG2	1:B:738:LEU:CG	2.82	0.52
1:B:650:ALA:C	1:B:653:THR:HG1	2.11	0.52
1:B:737:LEU:CD1	1:B:737:LEU:N	2.73	0.52
1:A:23:GLY:HA2	1:A:299:LYS:HE3	1.92	0.52
1:A:193:SER:O	1:A:196:ARG:HB2	2.09	0.52
1:A:259:ARG:HD2	1:A:266:PRO:HB3	1.91	0.52
1:A:303:ARG:CD	1:A:304:ALA:N	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:329:SER:C	1:A:331:PHE:N	2.57	0.52
1:A:334:ARG:CG	1:A:335:PRO:HD2	2.39	0.52
1:A:498:ASN:CB	1:A:522:VAL:CG1	2.85	0.52
1:A:533:ASN:ND2	1:A:541:ARG:NE	2.57	0.52
1:A:637:TYR:HH	1:A:745:ALA:CB	2.14	0.52
1:B:158:LEU:HB2	1:B:210:LEU:CD2	2.40	0.52
1:B:267:LYS:CD	1:B:268:GLU:N	2.73	0.52
1:B:288:LEU:HD22	1:B:492:HIS:HB3	1.91	0.52
1:B:321:PHE:CZ	1:B:326:SER:HB3	2.36	0.52
1:B:346:THR:H	1:B:359:VAL:HB	1.75	0.52
1:B:366:PHE:HB3	1:B:628:VAL:HG12	1.91	0.52
1:B:560:VAL:HG23	1:B:561:LEU:N	2.25	0.52
1:B:693:LEU:CD2	1:B:697:ARG:HH22	2.23	0.52
1:B:732:LEU:CD2	1:B:733:GLN:N	2.68	0.52
1:A:35:GLN:CA	1:A:263:PRO:HB3	2.40	0.52
1:A:127:PRO:C	1:A:166:PRO:CG	2.81	0.52
1:A:540:ILE:HG13	1:A:551:TYR:OH	2.09	0.52
1:A:620:ARG:NH1	1:A:621:VAL:HA	2.24	0.52
1:A:675:LEU:CD2	1:A:725:ILE:HD11	2.40	0.52
1:A:718:ILE:CG2	1:A:722:ARG:HG2	2.39	0.52
1:A:748:LYS:NZ	1:A:748:LYS:CA	2.72	0.52
1:B:7:LYS:HZ2	1:B:531:GLY:C	1.99	0.52
1:B:47:SER:CB	1:B:332:LYS:NZ	2.72	0.52
1:B:282:ASP:HA	1:B:285:ARG:CZ	2.40	0.52
1:B:288:LEU:HD13	1:B:495:VAL:HG11	1.88	0.52
1:B:587:PHE:HD1	1:B:587:PHE:H	1.57	0.52
1:B:714:LEU:O	1:B:719:ASN:HB3	2.10	0.52
1:A:124:GLY:O	1:A:125:LYS:HG3	2.09	0.52
1:A:541:ARG:CZ	1:A:542:THR:CA	2.84	0.52
1:A:636:TRP:CE3	1:A:640:PHE:CG	2.97	0.52
1:B:14:ARG:HH11	1:B:14:ARG:CG	2.17	0.52
1:B:14:ARG:O	1:B:15:GLY:C	2.53	0.52
1:B:68:ARG:CZ	1:B:68:ARG:CB	2.87	0.52
1:B:111:THR:HG23	1:B:121:ASP:OD2	2.09	0.52
1:B:126:VAL:N	1:B:128:PRO:CD	2.73	0.52
1:B:318:ILE:N	1:B:319:PRO:CD	2.73	0.52
1:B:366:PHE:CE1	1:B:632:ILE:HG21	2.41	0.52
1:B:384:GLN:NE2	1:B:576:HIS:CA	2.61	0.52
1:B:640:PHE:CB	1:B:670:ASN:OD1	2.58	0.52
1:A:38:LEU:N	1:A:501:VAL:CG2	2.73	0.52
1:A:42:ARG:HG3	1:A:42:ARG:HH11	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:LEU:N	1:A:53:LEU:HD23	2.26	0.52
1:A:196:ARG:HH11	1:A:328:VAL:HG13	1.75	0.52
1:A:287:ASN:HD21	1:A:290:LEU:CD1	2.16	0.52
1:A:303:ARG:CG	1:A:304:ALA:N	2.72	0.52
1:A:313:LEU:CD1	1:A:313:LEU:N	2.73	0.52
1:A:453:ARG:NH2	1:A:475:ALA:HA	2.25	0.52
1:A:530:VAL:CG2	1:A:531:GLY:N	2.73	0.52
1:A:597:ILE:HD11	1:A:600:LYS:CD	2.40	0.52
1:A:641:VAL:HG12	1:A:642:GLU:N	2.24	0.52
1:B:14:ARG:HD2	1:B:26:LYS:HD2	1.92	0.52
1:B:58:LYS:N	1:B:58:LYS:CD	2.72	0.52
1:B:142:GLU:CD	1:B:143:HIS:H	2.17	0.52
1:B:160:PRO:O	1:B:161:LEU:HD13	2.10	0.52
1:B:171:VAL:HG11	1:B:577:ILE:CA	2.15	0.52
1:B:361:TYR:HD2	1:B:414:VAL:HG11	1.63	0.52
1:B:408:PHE:O	1:B:410:VAL:CG1	2.58	0.52
1:B:586:GLU:O	1:B:622:ARG:CZ	2.51	0.52
1:B:694:ALA:CB	1:B:726:TRP:NE1	2.73	0.52
1:A:13:ALA:C	1:A:15:GLY:N	2.67	0.51
1:A:212:ALA:HB2	1:A:221:ALA:HB2	1.91	0.51
1:A:234:THR:HG23	1:A:237:PHE:CD2	2.45	0.51
1:A:291:PHE:CD1	1:A:292:ILE:N	2.73	0.51
1:A:310:ASP:HB3	1:A:313:LEU:H	1.75	0.51
1:A:534:ALA:O	1:A:535:ILE:CG2	2.58	0.51
1:A:544:GLU:CD	1:A:547:GLU:HG3	2.36	0.51
1:A:612:LEU:CD2	1:A:612:LEU:N	2.73	0.51
1:A:656:ASP:N	1:A:656:ASP:OD1	2.43	0.51
1:A:758:MET:SD	1:A:759:VAL:C	2.93	0.51
1:B:81:SER:O	1:B:84:GLU:HB2	2.10	0.51
1:B:125:LYS:CB	1:B:165:LEU:O	2.57	0.51
1:B:170:TYR:HE1	1:B:577:ILE:O	1.93	0.51
1:B:183:PHE:CD1	1:B:250:VAL:CG1	2.93	0.51
1:B:259:ARG:HA	1:B:269:LEU:CD1	2.39	0.51
1:B:324:ALA:HB1	1:B:333:LEU:CD2	2.40	0.51
1:B:361:TYR:CE1	1:B:441:PHE:CD2	2.97	0.51
1:B:500:GLU:C	1:B:520:TRP:HB3	2.34	0.51
1:B:521:ASN:CB	1:B:541:ARG:CD	2.84	0.51
1:B:569:ALA:C	1:B:572:THR:HB	2.34	0.51
1:B:627:THR:OG1	1:B:628:VAL:N	2.43	0.51
1:A:2:PHE:O	1:A:439:LEU:HD12	2.09	0.51
1:A:25:LEU:H	1:A:26:LYS:HZ1	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:LEU:HD21	1:A:35:GLN:CD	2.35	0.51
1:A:35:GLN:CB	1:A:263:PRO:HB3	2.39	0.51
1:A:82:VAL:HG21	1:A:188:ASP:HB3	1.92	0.51
1:A:336:ILE:CD1	1:A:336:ILE:N	2.73	0.51
1:A:374:THR:CG2	1:A:620:ARG:NH1	2.73	0.51
1:A:374:THR:CB	1:A:620:ARG:NH1	2.73	0.51
1:A:410:VAL:C	1:A:412:ALA:N	2.66	0.51
1:A:458:ALA:C	1:A:460:ALA:H	2.18	0.51
1:A:510:ALA:CB	1:A:511:ALA:CB	2.84	0.51
1:A:536:GLU:OE1	1:A:537:GLY:N	2.44	0.51
1:A:725:ILE:O	1:A:725:ILE:HG22	2.10	0.51
1:B:103:TRP:CE3	1:B:103:TRP:N	2.76	0.51
1:B:144:GLU:O	1:B:148:HIS:N	2.40	0.51
1:B:267:LYS:HD2	1:B:268:GLU:N	2.24	0.51
1:B:267:LYS:CE	1:B:268:GLU:N	2.73	0.51
1:B:288:LEU:HD22	1:B:495:VAL:CG1	2.39	0.51
1:B:400:THR:C	1:B:403:PRO:HD2	2.35	0.51
1:B:456:MET:HE2	1:B:637:TYR:HH	1.70	0.51
1:B:472:GLU:CA	1:B:475:ALA:HB3	2.39	0.51
1:B:670:ASN:CG	1:B:674:LEU:HD12	2.34	0.51
1:B:732:LEU:HD23	1:B:733:GLN:CA	2.38	0.51
1:B:757:GLY:CA	1:B:758:MET:C	2.83	0.51
1:A:125:LYS:O	1:A:126:VAL:HB	2.09	0.51
1:A:520:TRP:CG	1:A:545:PRO:CG	2.90	0.51
1:A:568:LEU:CD1	1:A:569:ALA:N	2.74	0.51
1:A:758:MET:SD	1:A:758:MET:C	2.94	0.51
1:B:6:VAL:CG1	1:B:7:LYS:N	2.73	0.51
1:B:90:THR:O	1:B:93:HIS:HB3	2.10	0.51
1:B:317:ILE:N	1:B:319:PRO:HD2	2.26	0.51
1:B:341:SER:CB	1:B:558:SER:HB3	2.40	0.51
1:B:361:TYR:HD1	1:B:361:TYR:C	2.19	0.51
1:B:362:GLU:HG2	1:B:440:GLY:O	2.10	0.51
1:B:448:ASP:CG	1:B:453:ARG:HG3	2.35	0.51
1:B:535:ILE:CG1	1:B:540:ILE:HA	2.39	0.51
1:A:52:LEU:N	1:A:174:VAL:CG2	2.72	0.51
1:A:182:ASN:CA	1:A:484:PHE:CE2	2.86	0.51
1:A:267:LYS:O	1:A:269:LEU:O	2.29	0.51
1:A:352:MET:SD	1:A:427:ARG:CA	2.93	0.51
1:A:402:ALA:HB3	1:A:403:PRO:HD3	1.92	0.51
1:A:653:THR:CB	1:A:655:ARG:HG3	2.37	0.51
1:B:14:ARG:NH1	1:B:17:THR:CG2	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:ARG:HG3	1:B:465:GLY:CA	2.39	0.51
1:B:25:LEU:HD13	1:B:25:LEU:N	2.23	0.51
1:B:43:THR:HG22	1:B:289:ALA:H	1.74	0.51
1:B:107:THR:HG22	1:B:110:ILE:HD12	1.93	0.51
1:B:156:HIS:CD2	1:B:210:LEU:HD23	2.43	0.51
1:B:171:VAL:HB	1:B:575:ILE:HD13	1.92	0.51
1:B:269:LEU:HD12	1:B:271:PRO:HD2	1.91	0.51
1:B:297:MET:CE	1:B:301:ARG:NH2	2.74	0.51
1:B:681:ILE:O	1:B:684:THR:HG23	2.09	0.51
1:B:726:TRP:HE3	1:B:729:LEU:HB2	1.71	0.51
1:A:8:ASP:C	1:A:11:GLY:H	2.17	0.51
1:A:136:ARG:HG3	1:A:136:ARG:O	2.09	0.51
1:A:161:LEU:O	1:A:163:PHE:HB2	2.11	0.51
1:A:262:SER:HA	1:A:516:LEU:HD22	1.91	0.51
1:A:302:GLY:O	1:A:303:ARG:NH1	2.44	0.51
1:A:505:GLU:HA	1:A:516:LEU:HB3	1.93	0.51
1:A:558:SER:HG	1:A:559:GLU:N	2.06	0.51
1:A:602:TYR:HD2	1:A:698:ILE:HD11	1.76	0.51
1:A:654:SER:OG	1:A:654:SER:O	2.28	0.51
1:A:663:ILE:CD1	1:A:664:ASP:N	2.73	0.51
1:B:13:ALA:CA	1:B:463:ARG:HA	2.33	0.51
1:B:14:ARG:NH1	1:B:14:ARG:CG	2.73	0.51
1:B:44:PHE:HD1	1:B:333:LEU:HA	1.70	0.51
1:B:79:ALA:HB1	1:B:80:LEU:CD2	2.40	0.51
1:B:80:LEU:HD11	1:B:84:GLU:CG	2.27	0.51
1:B:209:MET:HE2	1:B:209:MET:CA	2.41	0.51
1:B:366:PHE:HE2	1:B:405:GLY:HA2	1.63	0.51
1:B:386:PHE:O	1:B:387:LEU:C	2.51	0.51
1:A:6:VAL:CG1	1:A:531:GLY:N	2.73	0.51
1:A:99:ASN:ND2	1:A:101:GLU:OE2	2.42	0.51
1:A:236:ALA:HA	1:A:239:ARG:CD	2.41	0.51
1:A:302:GLY:O	1:A:303:ARG:HB2	2.10	0.51
1:A:503:VAL:HG11	1:A:517:TYR:C	2.36	0.51
1:A:558:SER:O	1:A:559:GLU:HB2	2.11	0.51
1:B:101:GLU:HB3	1:B:105:LYS:CD	2.40	0.51
1:B:269:LEU:C	1:B:271:PRO:HD2	2.34	0.51
1:B:318:ILE:CD1	1:B:318:ILE:N	2.73	0.51
1:B:400:THR:HG21	1:B:686:ILE:CB	2.41	0.51
1:B:400:THR:HG21	1:B:686:ILE:HG21	1.87	0.51
1:B:451:LEU:CG	1:B:453:ARG:NE	2.73	0.51
1:B:505:GLU:HB2	1:B:507:GLN:H	1.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:607:LYS:HD2	1:B:608:GLU:O	2.11	0.51
1:B:670:ASN:HD22	1:B:749:VAL:CG1	2.08	0.51
1:B:712:SER:OG	1:B:714:LEU:N	2.44	0.51
1:A:24:GLU:OE2	1:A:26:LYS:HG2	2.11	0.51
1:A:145:LEU:C	1:A:148:HIS:H	2.19	0.51
1:A:343:ILE:C	1:A:362:GLU:CD	2.78	0.51
1:A:387:LEU:HD21	1:A:577:ILE:HG12	1.91	0.51
1:A:556:GLN:NE2	1:A:557:PRO:CD	2.73	0.51
1:A:557:PRO:CB	1:A:559:GLU:HB2	2.37	0.51
1:A:571:HIS:O	1:A:572:THR:C	2.50	0.51
1:A:669:GLN:CB	1:B:123:VAL:HG13	2.40	0.51
1:A:713:ASP:O	1:A:714:LEU:HD22	2.08	0.51
1:A:735:MET:SD	1:A:736:GLY:C	2.94	0.51
1:B:35:GLN:HG3	1:B:503:VAL:O	2.11	0.51
1:B:171:VAL:CG2	1:B:578:TRP:CE3	2.94	0.51
1:B:262:SER:CB	1:B:269:LEU:CD2	2.89	0.51
1:B:368:LYS:CD	1:B:369:GLU:OE2	2.54	0.51
1:B:453:ARG:NH2	1:B:478:ASP:CB	2.72	0.51
1:B:580:TRP:CZ3	1:B:624:LEU:HD12	2.45	0.51
1:B:668:MET:CG	1:B:753:SER:HB2	2.41	0.51
1:A:10:ASN:HA	1:A:14:ARG:HA	1.92	0.51
1:A:42:ARG:CB	1:A:289:ALA:HB3	2.40	0.51
1:A:199:LEU:O	1:A:201:ALA:N	2.44	0.51
1:A:359:VAL:HG21	1:A:639:TRP:CH2	2.45	0.51
1:A:377:LYS:CB	1:A:385:ARG:NH1	2.73	0.51
1:A:388:ASP:OD1	1:A:389:VAL:HG12	2.11	0.51
1:A:448:ASP:CA	1:A:455:PRO:HD3	2.40	0.51
1:A:505:GLU:HA	1:A:516:LEU:CA	2.41	0.51
1:A:542:THR:HG23	1:A:544:GLU:H	1.76	0.51
1:A:731:VAL:CG1	1:A:732:LEU:N	2.74	0.51
1:B:216:ALA:N	1:B:220:LEU:CD1	2.74	0.51
1:B:267:LYS:HA	1:B:269:LEU:C	2.34	0.51
1:B:309:SER:HA	1:B:314:SER:O	2.11	0.51
1:B:327:GLU:OE1	1:B:327:GLU:HA	2.11	0.51
1:B:334:ARG:HA	1:B:334:ARG:NE	2.26	0.51
1:B:712:SER:OG	1:B:714:LEU:HB2	2.11	0.51
1:A:475:ALA:O	1:A:478:ASP:HB2	2.11	0.51
1:A:523:ARG:HD3	1:A:524:THR:O	1.96	0.51
1:B:43:THR:HG22	1:B:44:PHE:H	1.75	0.51
1:B:98:CYS:C	1:B:100:PRO:CD	2.84	0.51
1:B:213:THR:O	1:B:220:LEU:HD22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:THR:N	1:B:266:PRO:CD	2.73	0.51
1:B:376:VAL:HB	1:B:386:PHE:H	1.76	0.51
1:B:647:LEU:HD21	1:B:663:ILE:CG1	2.39	0.51
1:B:695:GLN:CA	1:B:698:ILE:CG1	2.85	0.51
1:A:105:LYS:NZ	1:A:137:THR:HG1	1.98	0.51
1:A:115:ASN:CG	1:A:116:ARG:N	2.68	0.51
1:A:306:VAL:O	1:A:308:PHE:N	2.38	0.51
1:A:361:TYR:CD1	1:A:414:VAL:HG21	2.44	0.51
1:A:492:HIS:HA	1:A:495:VAL:HG21	1.90	0.51
1:A:498:ASN:O	1:A:500:GLU:HB2	2.10	0.51
1:A:580:TRP:CG	1:A:581:HIS:CA	2.85	0.51
1:A:580:TRP:CH2	1:A:581:HIS:ND1	2.79	0.51
1:B:132:LEU:CD1	1:B:150:THR:C	2.85	0.51
1:B:235:THR:HB	1:B:239:ARG:HH12	1.74	0.51
1:B:261:TRP:HB3	1:B:291:PHE:CE2	2.46	0.51
1:B:267:LYS:CE	1:B:268:GLU:H	2.24	0.51
1:B:359:VAL:HA	1:B:418:THR:CG2	2.41	0.51
1:B:362:GLU:OE2	1:B:635:MET:HE1	2.10	0.51
1:B:377:LYS:HB2	1:B:385:ARG:NE	2.24	0.51
1:B:415:LYS:HZ2	1:B:415:LYS:C	2.12	0.51
1:B:439:LEU:CD2	1:B:439:LEU:N	2.73	0.51
1:B:587:PHE:N	1:B:587:PHE:CD1	2.78	0.51
1:B:597:ILE:HG23	1:B:598:ARG:CG	2.41	0.51
1:A:89:PHE:HD2	1:A:146:PHE:CE2	2.29	0.50
1:A:104:ARG:NE	1:A:104:ARG:CA	2.74	0.50
1:A:287:ASN:C	1:A:289:ALA:N	2.69	0.50
1:A:602:TYR:CD2	1:A:702:MET:CE	2.92	0.50
1:B:14:ARG:HH12	1:B:17:THR:HG21	1.75	0.50
1:B:19:ALA:CA	1:B:22:ILE:HB	2.30	0.50
1:B:89:PHE:CE1	1:B:146:PHE:N	2.73	0.50
1:B:115:ASN:OD1	1:B:115:ASN:N	2.43	0.50
1:B:119:LYS:HG3	1:B:119:LYS:O	2.12	0.50
1:B:259:ARG:HG3	1:B:268:GLU:O	2.11	0.50
1:B:583:ALA:H	1:B:584:SER:HA	1.74	0.50
1:B:693:LEU:CG	1:B:697:ARG:NH2	2.72	0.50
1:A:343:ILE:H	1:A:559:GLU:CD	2.19	0.50
1:A:357:HIS:C	1:A:437:MET:SD	2.94	0.50
1:A:361:TYR:CD2	1:A:362:GLU:CA	2.94	0.50
1:A:694:ALA:O	1:A:698:ILE:HG22	2.12	0.50
1:B:4:LEU:O	1:B:436:GLU:HA	2.12	0.50
1:B:61:ILE:CG2	1:B:62:ASP:H	2.03	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:132:LEU:HD13	1:B:150:THR:C	2.36	0.50
1:B:172:TYR:CZ	1:B:579:PRO:CD	2.94	0.50
1:B:409:ALA:O	1:B:412:ALA:N	2.44	0.50
1:B:521:ASN:HA	1:B:541:ARG:CD	2.42	0.50
1:B:734:MET:HE1	1:B:739:SER:O	2.11	0.50
1:A:44:PHE:HB2	1:A:333:LEU:C	2.36	0.50
1:A:53:LEU:HD23	1:A:53:LEU:N	2.26	0.50
1:A:86:VAL:HG21	1:A:191:ARG:HB3	1.93	0.50
1:A:222:PRO:CG	1:A:223:ALA:N	2.72	0.50
1:A:247:ASN:OD1	1:A:248:ALA:N	2.45	0.50
1:A:276:ARG:NE	1:A:276:ARG:N	2.59	0.50
1:A:417:ARG:HH11	1:A:417:ARG:CB	2.23	0.50
1:A:494:ALA:CB	1:A:545:PRO:HB2	2.41	0.50
1:A:523:ARG:CA	1:A:538:GLY:C	2.81	0.50
1:A:606:VAL:C	1:A:607:LYS:NZ	2.69	0.50
1:A:655:ARG:N	1:A:656:ASP:CB	2.72	0.50
1:B:200:THR:C	1:B:203:SER:H	2.19	0.50
1:B:234:THR:HA	1:B:237:PHE:HB2	1.93	0.50
1:B:282:ASP:HB2	1:B:285:ARG:HH21	1.75	0.50
1:B:282:ASP:OD1	1:B:283:GLN:N	2.44	0.50
1:B:509:VAL:HG23	1:B:510:ALA:N	2.26	0.50
1:B:592:ALA:C	1:B:726:TRP:CZ2	2.89	0.50
1:B:637:TYR:O	1:B:641:VAL:HG22	2.10	0.50
1:B:707:LEU:CD1	1:B:707:LEU:N	2.74	0.50
1:A:1:GLY:C	1:A:3:ASN:ND2	2.70	0.50
1:A:18:GLN:CG	1:A:491:MET:HE1	2.35	0.50
1:A:49:THR:CG2	1:A:50:SER:N	2.75	0.50
1:A:104:ARG:N	1:A:104:ARG:NE	2.60	0.50
1:A:456:MET:HG3	1:A:457:VAL:H	1.76	0.50
1:A:510:ALA:CB	1:A:511:ALA:CA	2.89	0.50
1:A:548:ALA:O	1:A:551:TYR:HB2	2.11	0.50
1:A:617:ARG:HD3	1:A:618:ARG:O	2.09	0.50
1:A:723:ILE:CG2	1:A:724:ARG:N	2.73	0.50
1:A:729:LEU:CD1	1:A:733:GLN:CB	2.73	0.50
1:B:525:GLU:O	1:B:527:ARG:NH2	2.44	0.50
1:B:540:ILE:HG23	1:B:551:TYR:CD2	2.46	0.50
1:A:283:GLN:O	1:A:287:ASN:HB3	2.10	0.50
1:A:523:ARG:O	1:A:539:SER:OG	2.29	0.50
1:A:617:ARG:NH1	1:A:617:ARG:CG	2.72	0.50
1:B:143:HIS:ND1	1:B:145:LEU:HD21	2.27	0.50
1:B:172:TYR:CE1	1:B:579:PRO:HD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:ALA:HA	1:B:239:ARG:NE	2.25	0.50
1:B:377:LYS:CG	1:B:385:ARG:HH12	2.21	0.50
1:B:385:ARG:N	1:B:577:ILE:HG21	2.26	0.50
1:B:451:LEU:CB	1:B:453:ARG:CD	2.85	0.50
1:B:506:HIS:HA	1:B:508:GLY:N	2.27	0.50
1:B:594:SER:O	1:B:601:ARG:NH2	2.45	0.50
1:B:597:ILE:HG21	1:B:714:LEU:CA	2.42	0.50
1:A:21:ALA:C	1:A:299:LYS:NZ	2.69	0.50
1:A:34:LEU:HG	1:A:35:GLN:HB2	1.93	0.50
1:A:94:GLN:NE2	1:A:237:PHE:CE1	2.55	0.50
1:A:177:THR:CG2	1:A:178:ALA:N	2.73	0.50
1:A:201:ALA:CA	1:A:204:SER:CB	2.85	0.50
1:A:203:SER:O	1:A:206:ASP:OD1	2.30	0.50
1:A:257:LEU:HD21	1:A:284:LEU:O	2.11	0.50
1:A:303:ARG:HH12	1:A:513:GLN:CG	2.15	0.50
1:A:523:ARG:HA	1:A:538:GLY:C	2.37	0.50
1:A:566:LEU:HD13	1:A:568:LEU:CG	2.22	0.50
1:A:580:TRP:CD1	1:A:581:HIS:N	2.80	0.50
1:A:606:VAL:C	1:A:607:LYS:HZ3	2.19	0.50
1:A:607:LYS:N	1:A:607:LYS:CE	2.74	0.50
1:B:5:LYS:CA	1:B:435:ALA:CB	2.85	0.50
1:B:97:ALA:O	1:B:100:PRO:HD3	2.10	0.50
1:B:131:ILE:C	1:B:133:GLU:H	2.18	0.50
1:B:342:TYR:CD2	1:B:559:GLU:CG	2.86	0.50
1:B:350:ASP:O	1:B:351:HIS:HB3	2.12	0.50
1:B:408:PHE:HA	1:B:413:PHE:CE2	2.46	0.50
1:B:587:PHE:C	1:B:622:ARG:HD3	2.36	0.50
1:B:678:ILE:HD12	1:B:679:GLU:HA	1.94	0.50
1:B:756:LEU:CG	1:B:757:GLY:N	2.71	0.50
1:A:18:GLN:O	1:A:21:ALA:HB3	2.11	0.50
1:A:37:PRO:C	1:A:501:VAL:HG21	2.37	0.50
1:A:42:ARG:H	1:A:289:ALA:HB2	0.55	0.50
1:A:53:LEU:CD1	1:A:171:VAL:HG13	2.36	0.50
1:A:183:PHE:CD2	1:A:184:TYR:CD1	3.00	0.50
1:A:261:TRP:HZ2	1:A:288:LEU:HA	1.76	0.50
1:A:345:GLN:HG2	1:A:556:GLN:N	2.26	0.50
1:A:440:GLY:HA3	1:A:635:MET:HE3	1.93	0.50
1:A:493:TYR:O	1:A:497:HIS:HD2	1.95	0.50
1:A:498:ASN:ND2	1:A:498:ASN:C	2.69	0.50
1:A:502:VAL:HG23	1:A:503:VAL:HG12	1.94	0.50
1:A:553:LYS:HE3	1:A:554:PRO:HD3	1.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:580:TRP:CD1	1:A:580:TRP:C	2.90	0.50
1:A:623:ILE:CD1	1:A:624:LEU:N	2.74	0.50
1:A:754:ASN:N	1:A:755:ALA:HA	2.27	0.50
1:B:132:LEU:HD13	1:B:151:THR:CA	2.38	0.50
1:B:309:SER:HG	1:B:310:ASP:C	2.07	0.50
1:B:317:ILE:HA	1:B:320:TRP:CD2	2.46	0.50
1:B:383:ASN:O	1:B:385:ARG:N	2.44	0.50
1:B:383:ASN:O	1:B:577:ILE:HG21	2.12	0.50
1:B:498:ASN:HB3	1:B:520:TRP:HE3	1.76	0.50
1:B:601:ARG:HA	1:B:601:ARG:HE	1.77	0.50
1:B:607:LYS:CA	1:B:609:PHE:CB	2.83	0.50
1:B:608:GLU:O	1:B:609:PHE:HD1	1.92	0.50
1:A:25:LEU:N	1:A:26:LYS:HZ3	2.10	0.50
1:A:234:THR:O	1:A:237:PHE:N	2.44	0.50
1:A:355:PRO:HB2	1:A:434:GLY:N	2.24	0.50
1:A:359:VAL:HG23	1:A:437:MET:O	2.12	0.50
1:A:472:GLU:N	1:A:475:ALA:CB	2.75	0.50
1:A:474:ARG:O	1:A:475:ALA:HB2	2.11	0.50
1:A:724:ARG:HD3	1:A:724:ARG:N	2.25	0.50
1:B:53:LEU:HD11	1:B:571:HIS:CG	2.46	0.50
1:B:69:LEU:H	1:B:69:LEU:CD2	2.23	0.50
1:B:75:GLN:C	1:B:77:GLY:H	2.19	0.50
1:B:94:GLN:O	1:B:96:THR:N	2.45	0.50
1:B:115:ASN:CG	1:B:116:ARG:H	2.19	0.50
1:B:196:ARG:HB2	1:B:328:VAL:HG11	1.92	0.50
1:B:205:VAL:CG1	1:B:232:ALA:CB	2.85	0.50
1:B:362:GLU:HA	1:B:441:PHE:CA	2.31	0.50
1:B:365:GLN:HE22	1:B:409:ALA:HA	1.75	0.50
1:B:377:LYS:C	1:B:377:LYS:CD	2.85	0.50
1:B:415:LYS:C	1:B:415:LYS:CD	2.85	0.50
1:B:460:ALA:HA	1:B:463:ARG:HD3	1.94	0.50
1:B:594:SER:HB3	1:B:603:THR:H	1.73	0.50
1:B:668:MET:HA	1:B:671:ALA:H	1.76	0.50
1:B:688:ALA:HA	1:B:691:VAL:CG2	2.42	0.50
1:A:41:THR:O	1:A:336:ILE:CD1	2.60	0.50
1:A:181:PRO:CB	1:A:484:PHE:CE1	2.89	0.50
1:A:272:SER:O	1:A:275:LEU:HB2	2.09	0.50
1:A:490:VAL:CG2	1:A:491:MET:N	2.73	0.50
1:A:524:THR:CG2	1:A:540:ILE:N	2.75	0.50
1:A:534:ALA:C	1:A:535:ILE:CG2	2.84	0.50
1:A:548:ALA:C	1:A:552:ASN:H	2.17	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:THR:O	1:A:655:ARG:CD	2.57	0.50
1:A:715:HIS:ND1	1:A:715:HIS:N	2.60	0.50
1:A:758:MET:CE	1:A:759:VAL:C	2.85	0.50
1:B:24:GLU:C	1:B:25:LEU:CG	2.85	0.50
1:B:44:PHE:HE1	1:B:333:LEU:N	2.10	0.50
1:B:86:VAL:HB	1:B:191:ARG:CD	2.41	0.50
1:B:383:ASN:O	1:B:385:ARG:HG2	2.12	0.50
1:B:522:VAL:C	1:B:539:SER:CB	2.85	0.50
1:B:583:ALA:H	1:B:584:SER:CA	2.24	0.50
1:B:602:TYR:O	1:B:603:THR:CB	2.60	0.50
1:A:75:GLN:HE22	1:A:177:THR:HG23	1.75	0.49
1:A:121:ASP:N	1:A:121:ASP:OD1	2.44	0.49
1:A:213:THR:C	1:A:215:LYS:CB	2.85	0.49
1:A:232:ALA:C	1:A:236:ALA:N	2.57	0.49
1:A:247:ASN:O	1:A:251:SER:OG	2.30	0.49
1:A:299:LYS:O	1:A:301:ARG:O	2.30	0.49
1:A:384:GLN:OE1	1:A:578:TRP:HZ2	1.95	0.49
1:A:419:ALA:O	1:A:421:TYR:HD1	1.95	0.49
1:A:503:VAL:HG21	1:A:517:TYR:O	2.11	0.49
1:A:508:GLY:CA	1:A:510:ALA:O	2.60	0.49
1:A:523:ARG:HG2	1:A:538:GLY:HA2	1.93	0.49
1:B:70:PHE:CE2	1:B:195:LEU:HD11	2.46	0.49
1:B:88:GLN:NE2	1:B:143:HIS:CG	2.80	0.49
1:B:249:VAL:CG2	1:B:318:ILE:CG2	2.84	0.49
1:B:358:VAL:CG2	1:B:438:THR:CB	2.86	0.49
1:B:510:ALA:CB	1:B:511:ALA:C	2.85	0.49
1:B:596:THR:CG2	1:B:601:ARG:CD	2.90	0.49
1:B:652:ARG:HA	1:B:652:ARG:NE	2.21	0.49
1:B:675:LEU:C	1:B:675:LEU:CD2	2.85	0.49
1:B:715:HIS:N	1:B:715:HIS:ND1	2.60	0.49
1:B:723:ILE:O	1:B:726:TRP:HB3	2.11	0.49
1:B:755:ALA:O	1:B:758:MET:HA	2.12	0.49
1:A:38:LEU:N	1:A:501:VAL:HG21	2.26	0.49
1:A:42:ARG:CG	1:A:336:ILE:HD12	2.32	0.49
1:A:131:ILE:HG22	1:A:135:LEU:HG	1.93	0.49
1:A:258:GLY:O	1:A:259:ARG:C	2.51	0.49
1:A:259:ARG:CD	1:A:266:PRO:HA	2.40	0.49
1:A:298:VAL:CG1	1:A:299:LYS:N	2.75	0.49
1:A:303:ARG:CZ	1:A:513:GLN:HB3	2.42	0.49
1:A:343:ILE:N	1:A:362:GLU:OE2	2.45	0.49
1:A:715:HIS:ND1	1:A:716:VAL:N	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:729:LEU:O	1:A:729:LEU:HD22	2.13	0.49
1:A:758:MET:HG3	1:B:576:HIS:NE2	2.26	0.49
1:B:2:PHE:CE1	1:B:3:ASN:C	2.89	0.49
1:B:6:VAL:HG21	1:B:530:VAL:CB	2.41	0.49
1:B:84:GLU:C	1:B:87:ASN:ND2	2.62	0.49
1:B:90:THR:O	1:B:237:PHE:CZ	2.66	0.49
1:B:182:ASN:C	1:B:185:ALA:HB3	2.25	0.49
1:B:289:ALA:C	1:B:292:ILE:HD13	2.35	0.49
1:B:349:ILE:HG23	1:B:349:ILE:O	2.11	0.49
1:B:349:ILE:CG2	1:B:421:TYR:HE2	2.25	0.49
1:B:364:TRP:CG	1:B:442:PRO:CG	2.95	0.49
1:B:366:PHE:CZ	1:B:408:PHE:HB2	2.48	0.49
1:B:372:ALA:C	1:B:373:PHE:CD1	2.89	0.49
1:B:491:MET:HA	1:B:494:ALA:HB3	1.93	0.49
1:B:583:ALA:CA	1:B:584:SER:C	2.85	0.49
1:B:586:GLU:C	1:B:622:ARG:CG	2.85	0.49
1:B:617:ARG:N	1:B:618:ARG:CA	2.56	0.49
1:B:666:ARG:C	1:B:669:GLN:HG2	2.37	0.49
1:B:680:MET:O	1:B:683:THR:C	2.55	0.49
1:A:6:VAL:HG23	1:A:434:GLY:CA	2.19	0.49
1:A:257:LEU:CB	1:A:261:TRP:CH2	2.86	0.49
1:A:334:ARG:HG3	1:A:338:GLU:OE2	2.12	0.49
1:A:371:THR:O	1:A:623:ILE:HG12	2.12	0.49
1:A:444:VAL:C	1:A:446:GLU:H	2.20	0.49
1:A:500:GLU:CB	1:A:522:VAL:H	2.25	0.49
1:B:29:LEU:HD12	1:B:532:TYR:CZ	2.47	0.49
1:B:57:GLY:N	1:B:148:HIS:CE1	2.79	0.49
1:B:71:PHE:HD2	1:B:328:VAL:O	1.95	0.49
1:B:96:THR:C	1:B:234:THR:HG22	2.36	0.49
1:B:99:ASN:N	1:B:99:ASN:OD1	2.30	0.49
1:B:125:LYS:HZ2	1:B:163:PHE:HE1	1.60	0.49
1:B:186:LEU:CD1	1:B:186:LEU:N	2.72	0.49
1:B:200:THR:CG2	1:B:201:ALA:H	2.17	0.49
1:B:216:ALA:C	1:B:217:LYS:CG	2.85	0.49
1:B:236:ALA:CA	1:B:239:ARG:HG3	2.39	0.49
1:B:249:VAL:CG1	1:B:250:VAL:N	2.75	0.49
1:B:361:TYR:HB2	1:B:414:VAL:HG11	1.94	0.49
1:B:444:VAL:HG12	1:B:486:TYR:CG	2.45	0.49
1:B:580:TRP:HZ3	1:B:624:LEU:HD12	1.77	0.49
1:B:676:ARG:CG	1:B:676:ARG:NH1	2.73	0.49
1:B:724:ARG:NH1	1:B:724:ARG:CB	2.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:TYR:CE1	1:A:146:PHE:HB2	2.48	0.49
1:A:136:ARG:HD2	1:A:381:ASN:O	2.12	0.49
1:A:190:VAL:HA	1:A:193:SER:OG	2.12	0.49
1:A:222:PRO:CG	1:A:223:ALA:H	2.22	0.49
1:A:254:LEU:O	1:A:255:THR:C	2.56	0.49
1:A:283:GLN:CA	1:A:286:SER:CB	2.85	0.49
1:A:572:THR:C	1:A:574:SER:N	2.69	0.49
1:A:580:TRP:CZ3	1:A:581:HIS:ND1	2.81	0.49
1:A:669:GLN:HB2	1:B:123:VAL:HG13	1.88	0.49
1:A:712:SER:HB3	1:A:713:ASP:HA	1.94	0.49
1:B:35:GLN:CB	1:B:502:VAL:CB	2.83	0.49
1:B:73:TYR:C	1:B:76:ALA:HB3	2.38	0.49
1:B:103:TRP:HE1	1:B:231:ASN:N	2.10	0.49
1:B:284:LEU:CD2	1:B:290:LEU:CD2	2.85	0.49
1:B:289:ALA:HB2	1:B:492:HIS:CD2	2.46	0.49
1:B:306:VAL:O	1:B:306:VAL:HG22	2.10	0.49
1:B:360:VAL:HG22	1:B:439:LEU:HA	1.92	0.49
1:B:435:ALA:O	1:B:436:GLU:HG3	2.12	0.49
1:B:453:ARG:NH1	1:B:453:ARG:CA	2.75	0.49
1:B:485:ASN:OD1	1:B:486:TYR:CD1	2.59	0.49
1:B:521:ASN:CA	1:B:541:ARG:CD	2.90	0.49
1:B:535:ILE:CD1	1:B:540:ILE:C	2.85	0.49
1:A:161:LEU:C	1:A:161:LEU:CD1	2.86	0.49
1:A:266:PRO:C	1:A:267:LYS:CG	2.85	0.49
1:A:303:ARG:NH1	1:A:303:ARG:CB	2.73	0.49
1:A:337:ASN:ND2	1:A:496:ALA:CB	2.70	0.49
1:A:338:GLU:O	1:A:339:THR:C	2.50	0.49
1:A:387:LEU:CD2	1:A:577:ILE:HG12	2.43	0.49
1:A:503:VAL:HG11	1:A:517:TYR:O	2.13	0.49
1:B:24:GLU:O	1:B:24:GLU:HG2	2.13	0.49
1:B:24:GLU:HG2	1:B:28:GLN:HG3	1.95	0.49
1:B:42:ARG:NE	1:B:337:ASN:N	2.60	0.49
1:B:42:ARG:NH2	1:B:335:PRO:O	2.43	0.49
1:B:57:GLY:H	1:B:58:LYS:CE	2.25	0.49
1:B:80:LEU:HD21	1:B:84:GLU:OE1	2.12	0.49
1:B:156:HIS:CB	1:B:206:ASP:CG	2.84	0.49
1:B:180:TYR:CD1	1:B:489:ALA:HA	2.48	0.49
1:B:321:PHE:CD1	1:B:321:PHE:C	2.85	0.49
1:B:326:SER:O	1:B:327:GLU:OE1	2.30	0.49
1:B:396:ARG:CG	1:B:612:LEU:CD2	2.90	0.49
1:B:501:VAL:HG22	1:B:520:TRP:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:653:THR:HG1	1:B:654:SER:H	1.59	0.49
1:B:716:VAL:HB	1:B:718:ILE:H	1.78	0.49
1:B:724:ARG:HB2	1:B:724:ARG:CZ	2.42	0.49
1:A:16:LEU:CG	1:A:462:LEU:C	2.86	0.49
1:A:176:ARG:HD2	1:A:446:GLU:CD	2.38	0.49
1:A:297:MET:CA	1:A:297:MET:CE	2.91	0.49
1:A:544:GLU:CB	1:A:545:PRO:C	2.85	0.49
1:A:575:ILE:HG13	1:A:576:HIS:H	1.77	0.49
1:A:629:ALA:HB3	1:A:735:MET:HE3	1.95	0.49
1:B:199:LEU:HA	1:B:202:LEU:HB2	1.94	0.49
1:B:229:LEU:C	1:B:229:LEU:CD2	2.86	0.49
1:B:298:VAL:O	1:B:302:GLY:CA	2.60	0.49
1:B:360:VAL:CG2	1:B:439:LEU:CA	2.85	0.49
1:B:361:TYR:HB3	1:B:414:VAL:HB	1.94	0.49
1:B:408:PHE:CE1	1:B:633:ILE:HD11	2.46	0.49
1:B:444:VAL:CG1	1:B:486:TYR:CG	2.96	0.49
1:B:522:VAL:C	1:B:539:SER:CA	2.86	0.49
1:B:544:GLU:CB	1:B:547:GLU:HG2	2.40	0.49
1:B:583:ALA:CB	1:B:584:SER:C	2.85	0.49
1:B:640:PHE:HD1	1:B:670:ASN:OD1	1.94	0.49
1:B:668:MET:CA	1:B:671:ALA:HB3	2.39	0.49
1:A:68:ARG:NH1	1:A:68:ARG:HG2	2.28	0.49
1:A:157:VAL:C	1:A:160:PRO:CD	2.85	0.49
1:A:159:SER:H	1:A:160:PRO:HD3	1.77	0.49
1:A:214:PHE:HA	1:A:217:LYS:O	2.13	0.49
1:A:234:THR:C	1:A:237:PHE:N	2.68	0.49
1:A:268:GLU:O	1:A:269:LEU:O	2.30	0.49
1:A:303:ARG:CZ	1:A:303:ARG:CA	2.85	0.49
1:A:555:ILE:CG1	1:A:556:GLN:N	2.72	0.49
1:A:649:ALA:N	1:A:652:ARG:NH1	2.60	0.49
1:A:741:SER:OG	1:A:742:GLU:N	2.45	0.49
1:B:42:ARG:HE	1:B:336:ILE:CA	2.17	0.49
1:B:69:LEU:HG	1:B:172:TYR:CD1	2.46	0.49
1:B:123:VAL:N	1:B:163:PHE:HD2	2.10	0.49
1:B:208:LYS:HA	1:B:208:LYS:HZ2	1.69	0.49
1:B:260:LEU:HG	1:B:285:ARG:CB	2.34	0.49
1:B:275:LEU:CD1	1:B:315:SER:C	2.85	0.49
1:B:364:TRP:CG	1:B:442:PRO:HG3	2.48	0.49
1:B:417:ARG:HH21	1:B:639:TRP:CB	2.18	0.49
1:B:715:HIS:CB	1:B:719:ASN:ND2	2.73	0.49
1:B:741:SER:C	1:B:743:ALA:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3:ASN:HA	1:A:436:GLU:HG3	1.93	0.49
1:A:45:SER:O	1:A:332:LYS:HD2	2.13	0.49
1:A:101:GLU:CB	1:A:104:ARG:HD2	2.24	0.49
1:A:143:HIS:HB2	1:A:145:LEU:CD1	2.24	0.49
1:A:320:TRP:CE3	1:A:320:TRP:C	2.90	0.49
1:A:365:GLN:CG	1:A:367:ALA:HB3	2.43	0.49
1:A:370:ILE:CD1	1:A:371:THR:N	2.74	0.49
1:A:566:LEU:CD1	1:A:568:LEU:CB	2.91	0.49
1:A:608:GLU:HG3	1:A:609:PHE:N	2.27	0.49
1:A:676:ARG:HA	1:A:679:GLU:OE2	2.13	0.49
1:A:681:ILE:HG22	1:A:731:VAL:HG11	1.94	0.49
1:B:3:ASN:HB2	1:B:436:GLU:CD	2.36	0.49
1:B:117:ALA:CA	1:B:222:PRO:CG	2.90	0.49
1:B:125:LYS:CA	1:B:128:PRO:CD	2.86	0.49
1:B:153:PHE:CE2	1:B:202:LEU:C	2.91	0.49
1:B:288:LEU:CB	1:B:495:VAL:HG11	2.43	0.49
1:B:295:GLN:HG2	1:B:296:ASP:N	2.28	0.49
1:B:349:ILE:HD12	1:B:349:ILE:C	2.38	0.49
1:B:370:ILE:HG22	1:B:623:ILE:HD11	1.93	0.49
1:B:552:ASN:C	1:B:553:LYS:CD	2.85	0.49
1:B:598:ARG:HH12	1:B:710:ASP:CG	2.21	0.49
1:A:37:PRO:C	1:A:501:VAL:CG2	2.85	0.49
1:A:265:THR:CG2	1:A:267:LYS:CA	2.91	0.49
1:A:365:GLN:NE2	1:A:367:ALA:N	2.60	0.49
1:A:365:GLN:CD	1:A:366:PHE:CA	2.85	0.49
1:A:421:TYR:C	1:A:423:ALA:C	2.81	0.49
1:A:425:SER:OG	1:A:426:GLN:HB3	2.12	0.49
1:A:484:PHE:O	1:A:484:PHE:HD1	1.96	0.49
1:A:523:ARG:CD	1:A:523:ARG:C	2.85	0.49
1:A:524:THR:HG23	1:A:540:ILE:N	2.26	0.49
1:A:584:SER:HB3	1:A:586:GLU:HB2	1.95	0.49
1:A:655:ARG:N	1:A:656:ASP:CA	2.76	0.49
1:A:681:ILE:O	1:A:684:THR:CG2	2.60	0.49
1:A:733:GLN:HE21	1:A:738:LEU:HD11	1.77	0.49
1:A:753:SER:N	1:A:754:ASN:C	2.71	0.49
1:B:105:LYS:N	1:B:105:LYS:NZ	2.60	0.49
1:B:158:LEU:HA	1:B:160:PRO:CD	2.42	0.49
1:B:173:ARG:HD2	1:B:174:VAL:C	2.38	0.49
1:B:173:ARG:HG2	1:B:566:LEU:HD12	1.94	0.49
1:B:233:ALA:CA	1:B:236:ALA:HB3	2.38	0.49
1:B:261:TRP:NE1	1:B:285:ARG:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:308:PHE:CE1	1:B:319:PRO:HD3	2.48	0.49
1:B:350:ASP:CG	1:B:429:THR:N	2.70	0.49
1:B:593:TYR:HB3	1:B:726:TRP:CD2	2.48	0.49
1:B:597:ILE:HG23	1:B:598:ARG:HG2	1.94	0.49
1:B:687:GLY:O	1:B:690:ALA:N	2.46	0.49
1:A:145:LEU:C	1:A:148:HIS:N	2.70	0.49
1:A:217:LYS:O	1:A:219:ALA:HB2	2.12	0.49
1:A:476:SER:CA	1:A:479:LEU:H	2.25	0.49
1:A:479:LEU:HD12	1:A:479:LEU:H	1.76	0.49
1:A:480:LYS:C	1:A:480:LYS:CD	2.85	0.49
1:A:758:MET:HE3	1:A:759:VAL:HA	1.95	0.49
1:B:8:ASP:OD1	1:B:9:LEU:CA	2.60	0.49
1:B:12:SER:O	1:B:463:ARG:HA	2.13	0.49
1:B:23:GLY:HA2	1:B:299:LYS:HZ1	1.74	0.49
1:B:43:THR:H	1:B:334:ARG:HB2	1.78	0.49
1:B:43:THR:CG2	1:B:44:PHE:N	2.75	0.49
1:B:82:VAL:O	1:B:85:LEU:HB3	2.13	0.49
1:B:105:LYS:O	1:B:109:TYR:HB2	2.13	0.49
1:B:376:VAL:CA	1:B:386:PHE:H	2.26	0.49
1:B:577:ILE:HD11	1:B:580:TRP:HB3	1.95	0.49
1:B:583:ALA:H	1:B:584:SER:C	2.20	0.49
1:B:721:HIS:N	1:B:721:HIS:ND1	2.59	0.49
1:A:170:TYR:CE2	1:A:578:TRP:CH2	3.00	0.48
1:A:281:ILE:HD13	1:A:285:ARG:NH2	2.26	0.48
1:A:429:THR:HG23	1:A:430:VAL:N	2.28	0.48
1:A:430:VAL:CG1	1:A:529:PRO:CB	2.85	0.48
1:A:641:VAL:O	1:A:642:GLU:C	2.55	0.48
1:B:4:LEU:CA	1:B:5:LYS:CG	2.85	0.48
1:B:102:ILE:CG2	1:B:135:LEU:HG	2.43	0.48
1:B:132:LEU:HB3	1:B:151:THR:HG22	1.95	0.48
1:B:215:LYS:NZ	1:B:215:LYS:CA	2.76	0.48
1:B:257:LEU:HD23	1:B:294:TYR:HB3	1.94	0.48
1:B:260:LEU:CG	1:B:285:ARG:CB	2.85	0.48
1:B:317:ILE:HG12	1:B:320:TRP:HE1	1.75	0.48
1:B:362:GLU:OE2	1:B:635:MET:CE	2.61	0.48
1:B:378:LEU:CD1	1:B:379:ALA:N	2.73	0.48
1:B:407:THR:CG2	1:B:408:PHE:HD2	1.95	0.48
1:B:415:LYS:CE	1:B:415:LYS:C	2.86	0.48
1:B:455:PRO:CB	1:B:459:ILE:HD11	2.37	0.48
1:B:487:TYR:CD1	1:B:487:TYR:C	2.91	0.48
1:B:523:ARG:CB	1:B:523:ARG:NH1	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:571:HIS:C	1:B:573:THR:N	2.69	0.48
1:B:587:PHE:N	1:B:587:PHE:HD1	2.10	0.48
1:B:726:TRP:HA	1:B:726:TRP:HE3	1.76	0.48
1:A:25:LEU:N	1:A:26:LYS:NZ	2.60	0.48
1:A:62:ASP:HB3	1:A:66:TYR:CE1	2.45	0.48
1:A:224:LEU:HD12	1:A:224:LEU:C	2.37	0.48
1:A:418:THR:O	1:A:421:TYR:CG	2.66	0.48
1:A:605:GLU:CG	1:A:607:LYS:NZ	2.73	0.48
1:B:2:PHE:CG	1:B:3:ASN:N	2.81	0.48
1:B:87:ASN:ND2	1:B:88:GLN:H	2.11	0.48
1:B:188:ASP:O	1:B:190:VAL:N	2.47	0.48
1:B:205:VAL:HG12	1:B:206:ASP:N	2.29	0.48
1:B:211:GLN:O	1:B:214:PHE:HE1	1.96	0.48
1:B:236:ALA:HB2	1:B:239:ARG:NE	2.28	0.48
1:B:317:ILE:HA	1:B:320:TRP:CE2	2.47	0.48
1:B:401:LEU:C	1:B:404:ILE:CB	2.76	0.48
1:B:593:TYR:CE2	1:B:723:ILE:HB	2.48	0.48
1:B:598:ARG:NH2	1:B:708:ILE:CA	2.76	0.48
1:B:725:ILE:HD12	1:B:729:LEU:HD23	1.95	0.48
1:A:61:ILE:CG1	1:A:66:TYR:HE2	2.12	0.48
1:A:182:ASN:O	1:A:185:ALA:N	2.45	0.48
1:A:271:PRO:CA	1:A:276:ARG:NH1	2.76	0.48
1:A:310:ASP:HB2	1:A:313:LEU:HD22	1.94	0.48
1:A:387:LEU:CD1	1:A:577:ILE:HG23	2.44	0.48
1:A:410:VAL:O	1:A:411:SER:C	2.55	0.48
1:A:445:VAL:O	1:A:449:TYR:HB3	2.13	0.48
1:A:532:TYR:OH	1:A:541:ARG:CD	2.59	0.48
1:A:595:VAL:CG1	1:A:698:ILE:CD1	2.85	0.48
1:A:629:ALA:O	1:A:633:ILE:HG12	2.12	0.48
1:A:733:GLN:HE21	1:A:738:LEU:CD1	2.25	0.48
1:A:748:LYS:C	1:A:748:LYS:CD	2.85	0.48
1:B:27:ASN:ND2	1:B:27:ASN:N	2.60	0.48
1:B:40:PHE:CE2	1:B:495:VAL:CG1	2.83	0.48
1:B:74:ALA:HB2	1:B:82:VAL:HG22	1.95	0.48
1:B:75:GLN:CD	1:B:177:THR:CB	2.86	0.48
1:B:102:ILE:CG2	1:B:135:LEU:CG	2.92	0.48
1:B:111:THR:OG1	1:B:111:THR:O	2.30	0.48
1:B:182:ASN:ND2	1:B:183:PHE:N	2.60	0.48
1:B:232:ALA:C	1:B:239:ARG:NH2	2.70	0.48
1:B:255:THR:HB	1:B:259:ARG:NH1	2.27	0.48
1:B:297:MET:O	1:B:301:ARG:N	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:618:ARG:N	1:B:619:GLU:CA	2.73	0.48
1:B:639:TRP:HD1	1:B:639:TRP:O	1.96	0.48
1:A:158:LEU:N	1:A:158:LEU:CD1	2.76	0.48
1:A:170:TYR:CE2	1:A:576:HIS:CD2	3.00	0.48
1:A:272:SER:HB2	1:A:275:LEU:CD1	2.36	0.48
1:A:346:THR:H	1:A:360:VAL:HG12	1.78	0.48
1:A:356:SER:C	1:A:437:MET:CE	2.87	0.48
1:A:522:VAL:C	1:A:539:SER:CB	2.86	0.48
1:A:716:VAL:CG2	1:B:378:LEU:CD1	2.85	0.48
1:B:2:PHE:HZ	1:B:4:LEU:CD2	2.01	0.48
1:B:24:GLU:C	1:B:25:LEU:CD1	2.85	0.48
1:B:43:THR:HG22	1:B:44:PHE:N	2.28	0.48
1:B:136:ARG:HH11	1:B:147:HIS:CD2	2.31	0.48
1:B:368:LYS:CD	1:B:369:GLU:OE1	2.61	0.48
1:B:471:LEU:O	1:B:476:SER:OG	2.28	0.48
1:B:493:TYR:CD1	1:B:497:HIS:CE1	2.99	0.48
1:B:517:TYR:C	1:B:518:LEU:HG	2.39	0.48
1:B:535:ILE:CG2	1:B:538:GLY:C	2.85	0.48
1:B:593:TYR:CE1	1:B:722:ARG:CD	2.97	0.48
1:B:598:ARG:NH1	1:B:710:ASP:CG	2.72	0.48
1:B:615:GLY:HA2	1:B:616:GLN:CB	2.43	0.48
1:B:729:LEU:CG	1:B:732:LEU:HD13	2.44	0.48
1:A:38:LEU:N	1:A:501:VAL:CB	2.76	0.48
1:A:99:ASN:ND2	1:A:101:GLU:OE1	2.41	0.48
1:A:159:SER:N	1:A:160:PRO:HD3	2.29	0.48
1:A:263:PRO:CB	1:A:502:VAL:HG21	2.41	0.48
1:A:266:PRO:C	1:A:267:LYS:HG3	2.38	0.48
1:A:364:TRP:HA	1:A:561:LEU:O	2.12	0.48
1:A:387:LEU:HD21	1:A:577:ILE:CG1	2.42	0.48
1:A:498:ASN:CG	1:A:522:VAL:CB	2.87	0.48
1:A:503:VAL:CB	1:A:519:VAL:HB	2.42	0.48
1:A:587:PHE:CE2	1:A:621:VAL:O	2.66	0.48
1:A:654:SER:N	1:A:655:ARG:CA	2.76	0.48
1:A:716:VAL:CG2	1:A:717:GLY:N	2.73	0.48
1:A:718:ILE:C	1:A:720:ARG:N	2.65	0.48
1:A:723:ILE:C	1:A:723:ILE:CD1	2.85	0.48
1:B:22:ILE:N	1:B:22:ILE:CD1	2.77	0.48
1:B:41:THR:C	1:B:42:ARG:HG3	2.37	0.48
1:B:56:VAL:H	1:B:170:TYR:CB	2.24	0.48
1:B:99:ASN:C	1:B:101:GLU:H	2.22	0.48
1:B:102:ILE:CG1	1:B:103:TRP:CZ3	2.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:LYS:C	1:B:128:PRO:HD3	2.37	0.48
1:B:125:LYS:O	1:B:165:LEU:HD22	2.13	0.48
1:B:288:LEU:CG	1:B:495:VAL:HG11	2.44	0.48
1:B:308:PHE:HD1	1:B:309:SER:N	2.10	0.48
1:B:404:ILE:CD1	1:B:735:MET:CG	2.86	0.48
1:B:600:LYS:HG3	1:B:708:ILE:HG21	1.93	0.48
1:B:623:ILE:O	1:B:625:LYS:CB	2.61	0.48
1:B:631:ALA:O	1:B:635:MET:HG2	2.13	0.48
1:B:702:MET:CE	1:B:714:LEU:CG	2.91	0.48
1:A:24:GLU:CD	1:A:26:LYS:HG2	2.37	0.48
1:A:213:THR:HB	1:A:215:LYS:CB	2.42	0.48
1:A:268:GLU:CD	1:A:269:LEU:CA	2.84	0.48
1:A:276:ARG:CA	1:A:278:THR:HG23	2.16	0.48
1:A:294:TYR:CE2	1:A:516:LEU:HG	2.46	0.48
1:A:320:TRP:C	1:A:320:TRP:CD2	2.92	0.48
1:A:467:VAL:O	1:A:467:VAL:HG13	2.12	0.48
1:A:547:GLU:O	1:A:551:TYR:HB2	2.12	0.48
1:A:589:TYR:CE2	1:A:591:ASP:CG	2.91	0.48
1:A:757:GLY:CA	1:A:758:MET:C	2.87	0.48
1:B:8:ASP:CG	1:B:10:ASN:N	2.72	0.48
1:B:53:LEU:CD2	1:B:571:HIS:ND1	2.50	0.48
1:B:101:GLU:O	1:B:105:LYS:HB2	2.14	0.48
1:B:102:ILE:O	1:B:106:LEU:HD23	2.13	0.48
1:B:180:TYR:CE2	1:B:488:ALA:O	2.67	0.48
1:B:258:GLY:HA3	1:B:294:TYR:CE1	2.49	0.48
1:B:297:MET:CE	1:B:301:ARG:HH21	2.24	0.48
1:B:664:ASP:O	1:B:668:MET:HB2	2.13	0.48
1:B:708:ILE:HD12	1:B:709:ASP:HA	1.94	0.48
1:B:756:LEU:CD1	1:B:757:GLY:N	2.76	0.48
1:A:4:LEU:C	1:A:4:LEU:HD12	2.39	0.48
1:A:89:PHE:HE2	1:A:146:PHE:CD2	2.20	0.48
1:A:194:ASP:O	1:A:198:MET:CB	2.61	0.48
1:A:231:ASN:O	1:A:235:THR:CB	2.62	0.48
1:A:241:ARG:CG	1:A:243:ASN:OD1	2.62	0.48
1:A:250:VAL:O	1:A:253:VAL:CG1	2.61	0.48
1:A:252:SER:CB	1:A:308:PHE:CE1	2.96	0.48
1:A:314:SER:HB2	1:A:318:ILE:O	2.12	0.48
1:A:374:THR:HG22	1:A:620:ARG:HH12	1.79	0.48
1:A:417:ARG:NH1	1:A:417:ARG:CG	2.73	0.48
1:A:435:ALA:CA	1:A:437:MET:HE3	2.43	0.48
1:A:477:ASN:OD1	1:A:478:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:CD2	1:B:16:LEU:CB	2.85	0.48
1:B:173:ARG:HG3	1:B:566:LEU:HD11	1.95	0.48
1:B:270:ASP:N	1:B:271:PRO:CD	2.76	0.48
1:B:282:ASP:OD1	1:B:283:GLN:NE2	2.46	0.48
1:B:294:TYR:HE2	1:B:516:LEU:CG	2.27	0.48
1:B:308:PHE:CZ	1:B:318:ILE:CA	2.84	0.48
1:B:317:ILE:CG2	1:B:320:TRP:CE2	2.93	0.48
1:B:568:LEU:O	1:B:569:ALA:C	2.56	0.48
1:B:600:LYS:HZ1	1:B:707:LEU:HD21	1.79	0.48
1:B:726:TRP:CZ3	1:B:729:LEU:CB	2.96	0.48
1:A:59:GLY:CA	1:A:155:CYS:SG	2.98	0.48
1:A:105:LYS:NZ	1:A:138:LEU:HD12	2.28	0.48
1:A:285:ARG:O	1:A:288:LEU:HD22	2.14	0.48
1:A:326:SER:C	1:A:327:GLU:HG3	2.38	0.48
1:A:347:SER:OG	1:A:348:ALA:HA	2.14	0.48
1:A:493:TYR:CZ	1:A:549:ILE:CB	2.97	0.48
1:A:523:ARG:NH1	1:A:525:GLU:N	2.60	0.48
1:A:524:THR:N	1:A:539:SER:HA	2.29	0.48
1:A:542:THR:CG2	1:A:545:PRO:HA	2.43	0.48
1:A:553:LYS:CE	1:A:554:PRO:CD	2.85	0.48
1:A:648:ALA:C	1:A:652:ARG:NH1	2.72	0.48
1:B:12:SER:O	1:B:463:ARG:HB3	2.13	0.48
1:B:14:ARG:CB	1:B:465:GLY:CA	2.85	0.48
1:B:36:LEU:HB3	1:B:37:PRO:CD	2.43	0.48
1:B:40:PHE:N	1:B:286:SER:OG	2.47	0.48
1:B:43:THR:CG2	1:B:287:ASN:CG	2.86	0.48
1:B:68:ARG:NH1	1:B:68:ARG:CB	2.76	0.48
1:B:171:VAL:HG22	1:B:578:TRP:HE3	1.77	0.48
1:B:268:GLU:HG3	1:B:305:GLU:OE2	2.14	0.48
1:B:272:SER:O	1:B:276:ARG:CD	2.60	0.48
1:B:275:LEU:CD1	1:B:316:THR:N	2.74	0.48
1:B:340:THR:HB	1:B:342:TYR:CZ	2.49	0.48
1:B:349:ILE:CD1	1:B:353:GLY:CA	2.85	0.48
1:B:526:LEU:CD2	1:B:527:ARG:NH1	2.73	0.48
1:B:618:ARG:HG2	1:B:618:ARG:HH11	1.79	0.48
1:B:661:LEU:CD2	1:B:662:ALA:N	2.73	0.48
1:B:693:LEU:CG	1:B:697:ARG:HH12	2.20	0.48
1:A:24:GLU:HA	1:A:26:LYS:HB2	1.93	0.48
1:A:187:VAL:CA	1:A:190:VAL:CG2	2.85	0.48
1:A:196:ARG:HH11	1:A:328:VAL:CG1	2.26	0.48
1:A:210:LEU:C	1:A:212:ALA:HA	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:ILE:O	1:A:284:LEU:N	2.46	0.48
1:A:287:ASN:ND2	1:A:287:ASN:O	2.46	0.48
1:A:343:ILE:CA	1:A:362:GLU:CD	2.87	0.48
1:A:350:ASP:C	1:A:353:GLY:CA	2.87	0.48
1:A:375:PRO:HD2	1:A:620:ARG:HD2	1.96	0.48
1:A:461:ALA:C	1:A:464:THR:N	2.66	0.48
1:A:476:SER:O	1:A:478:ASP:CA	2.61	0.48
1:A:532:TYR:CE1	1:A:533:ASN:ND2	2.82	0.48
1:A:747:THR:C	1:A:750:LEU:HG	2.38	0.48
1:B:14:ARG:HG3	1:B:465:GLY:HA3	1.95	0.48
1:B:69:LEU:HG	1:B:172:TYR:CZ	2.49	0.48
1:B:145:LEU:HD13	1:B:146:PHE:CD1	2.48	0.48
1:B:373:PHE:HB2	1:B:622:ARG:O	2.14	0.48
1:B:471:LEU:HB2	1:B:476:SER:OG	2.13	0.48
1:B:552:ASN:CA	1:B:553:LYS:CE	2.86	0.48
1:B:577:ILE:CD1	1:B:578:TRP:CE3	2.96	0.48
1:B:604:ALA:HB1	1:B:697:ARG:CB	2.43	0.48
1:B:625:LYS:O	1:B:626:PRO:C	2.56	0.48
1:B:655:ARG:HA	1:B:655:ARG:CZ	2.44	0.48
1:A:25:LEU:H	1:A:26:LYS:HZ3	1.60	0.48
1:A:143:HIS:HD2	1:A:146:PHE:CZ	2.32	0.48
1:A:303:ARG:NE	1:A:304:ALA:N	2.59	0.48
1:A:417:ARG:HG3	1:A:643:ASP:OD2	2.13	0.48
1:A:502:VAL:N	1:A:518:LEU:CD1	2.76	0.48
1:A:507:GLN:CG	1:A:508:GLY:N	2.76	0.48
1:A:522:VAL:O	1:A:539:SER:HB2	2.14	0.48
1:A:566:LEU:HD13	1:A:568:LEU:CB	2.44	0.48
1:A:568:LEU:HD12	1:A:569:ALA:H	1.78	0.48
1:A:589:TYR:CE2	1:A:591:ASP:CB	2.85	0.48
1:A:630:HIS:HB2	1:A:737:LEU:HD11	1.71	0.48
1:B:123:VAL:CG2	1:B:124:GLY:N	2.75	0.48
1:B:236:ALA:C	1:B:239:ARG:HB2	2.38	0.48
1:B:313:LEU:CA	1:B:316:THR:CB	2.90	0.48
1:B:336:ILE:C	1:B:337:ASN:N	2.72	0.48
1:B:370:ILE:CD1	1:B:401:LEU:HD12	2.44	0.48
1:B:505:GLU:CB	1:B:506:HIS:C	2.87	0.48
1:B:533:ASN:HB2	1:B:535:ILE:HD11	1.96	0.48
1:B:575:ILE:HB	1:B:576:HIS:CA	2.43	0.48
1:B:575:ILE:HB	1:B:576:HIS:CB	2.44	0.48
1:B:742:GLU:O	1:B:743:ALA:C	2.57	0.48
1:B:744:GLU:HA	1:B:747:THR:CG2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:LEU:CG	1:A:263:PRO:N	2.77	0.47
1:A:127:PRO:HD2	1:A:130:ALA:C	2.39	0.47
1:A:206:ASP:N	1:A:206:ASP:OD1	2.45	0.47
1:A:262:SER:CB	1:A:516:LEU:CD2	2.87	0.47
1:A:272:SER:HB2	1:A:275:LEU:CB	2.44	0.47
1:A:278:THR:CG2	1:A:281:ILE:CG2	2.85	0.47
1:A:337:ASN:N	1:A:338:GLU:OE1	2.47	0.47
1:A:583:ALA:O	1:A:584:SER:HB2	2.13	0.47
1:A:754:ASN:CG	1:A:756:LEU:HB2	2.39	0.47
1:B:14:ARG:C	1:B:16:LEU:N	2.70	0.47
1:B:54:TRP:NE1	1:B:69:LEU:HD21	2.27	0.47
1:B:94:GLN:C	1:B:96:THR:N	2.72	0.47
1:B:102:ILE:C	1:B:102:ILE:CD1	2.85	0.47
1:B:119:LYS:NZ	1:B:217:LYS:CB	2.69	0.47
1:B:127:PRO:C	1:B:128:PRO:HA	2.36	0.47
1:B:260:LEU:CD1	1:B:260:LEU:C	2.85	0.47
1:B:281:ILE:HA	1:B:284:LEU:HB3	1.95	0.47
1:B:283:GLN:CD	1:B:284:LEU:N	2.72	0.47
1:A:109:TYR:C	1:A:110:ILE:CD1	2.86	0.47
1:A:119:LYS:C	1:A:219:ALA:CA	2.85	0.47
1:A:275:LEU:C	1:A:276:ARG:HG3	2.39	0.47
1:A:299:LYS:HB3	1:A:300:GLN:HE22	1.78	0.47
1:A:345:GLN:NE2	1:A:346:THR:H	2.10	0.47
1:A:523:ARG:CZ	1:A:525:GLU:N	2.77	0.47
1:A:595:VAL:HG21	1:A:698:ILE:HG13	1.96	0.47
1:B:30:SER:HB2	1:B:517:TYR:CD2	2.48	0.47
1:B:39:GLN:C	1:B:40:PHE:CD1	2.92	0.47
1:B:171:VAL:HG21	1:B:575:ILE:HD13	1.95	0.47
1:B:245:ASP:O	1:B:248:ALA:HB3	2.13	0.47
1:B:349:ILE:C	1:B:351:HIS:H	2.21	0.47
1:B:471:LEU:CD1	1:B:479:LEU:HB3	2.45	0.47
1:B:540:ILE:HG21	1:B:548:ALA:HA	1.96	0.47
1:B:632:ILE:CG2	1:B:633:ILE:N	2.78	0.47
1:A:10:ASN:CA	1:A:14:ARG:HB2	2.43	0.47
1:A:20:PHE:O	1:A:22:ILE:C	2.56	0.47
1:A:36:LEU:HG	1:A:263:PRO:N	2.28	0.47
1:A:41:THR:O	1:A:336:ILE:HG13	2.13	0.47
1:A:248:ALA:C	1:A:251:SER:OG	2.55	0.47
1:A:294:TYR:CZ	1:A:516:LEU:CG	2.88	0.47
1:A:310:ASP:CB	1:A:313:LEU:CD1	2.85	0.47
1:A:322:ILE:HG13	1:A:324:ALA:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:344:GLY:C	1:A:361:TYR:N	2.71	0.47
1:A:357:HIS:C	1:A:358:VAL:N	2.72	0.47
1:A:595:VAL:HG21	1:A:698:ILE:CD1	2.44	0.47
1:A:618:ARG:HB3	1:A:618:ARG:NH1	2.29	0.47
1:A:729:LEU:CD2	1:A:738:LEU:HD11	2.42	0.47
1:B:97:ALA:O	1:B:100:PRO:CD	2.62	0.47
1:B:117:ALA:HA	1:B:222:PRO:CG	2.44	0.47
1:B:184:TYR:CA	1:B:187:VAL:HG22	2.31	0.47
1:B:383:ASN:O	1:B:385:ARG:CG	2.63	0.47
1:B:507:GLN:CD	1:B:508:GLY:N	2.73	0.47
1:B:725:ILE:HA	1:B:728:GLY:H	1.79	0.47
1:A:44:PHE:C	1:A:334:ARG:N	2.72	0.47
1:A:108:ALA:C	1:A:112:GLY:O	2.57	0.47
1:B:42:ARG:N	1:B:43:THR:CB	2.77	0.47
1:B:63:PRO:HB2	1:B:196:ARG:HD2	1.97	0.47
1:B:105:LYS:C	1:B:108:ALA:HB3	2.40	0.47
1:B:106:LEU:CD1	1:B:154:VAL:CG1	2.90	0.47
1:B:180:TYR:HH	1:B:492:HIS:CG	2.12	0.47
1:B:183:PHE:C	1:B:186:LEU:H	2.22	0.47
1:B:505:GLU:HA	1:B:506:HIS:C	2.40	0.47
1:B:594:SER:CB	1:B:603:THR:HA	2.44	0.47
1:B:705:ARG:CA	1:B:708:ILE:HG13	2.45	0.47
1:B:757:GLY:C	1:B:759:VAL:H	2.22	0.47
1:A:24:GLU:OE2	1:A:508:GLY:CA	2.62	0.47
1:A:173:ARG:HG2	1:A:579:PRO:CA	2.44	0.47
1:A:213:THR:OG1	1:A:214:PHE:N	2.47	0.47
1:A:333:LEU:HD13	1:A:334:ARG:N	2.30	0.47
1:A:381:ASN:C	1:A:381:ASN:ND2	2.73	0.47
1:A:413:PHE:CZ	1:A:639:TRP:CH2	2.84	0.47
1:A:527:ARG:HH12	1:A:528:ILE:HD11	1.76	0.47
1:B:83:ASP:HA	1:B:191:ARG:CD	2.43	0.47
1:B:114:SER:HB3	1:B:223:ALA:HB2	1.96	0.47
1:B:153:PHE:CZ	1:B:202:LEU:CB	2.84	0.47
1:B:204:SER:HG	1:B:205:VAL:N	2.12	0.47
1:B:294:TYR:HE2	1:B:516:LEU:CD1	2.27	0.47
1:B:349:ILE:HG23	1:B:421:TYR:HE2	1.80	0.47
1:B:358:VAL:HG21	1:B:438:THR:H	1.75	0.47
1:B:385:ARG:H	1:B:577:ILE:HG21	1.80	0.47
1:B:426:GLN:NE2	1:B:427:ARG:NE	2.62	0.47
1:B:479:LEU:HD12	1:B:483:MET:SD	2.55	0.47
1:B:584:SER:OG	1:B:625:LYS:HE3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:ILE:HG22	1:A:325:MET:CE	2.44	0.47
1:A:334:ARG:CG	1:A:338:GLU:OE2	2.62	0.47
1:A:355:PRO:HB3	1:A:529:PRO:HG2	1.96	0.47
1:A:432:SER:O	1:A:433:ASN:HB2	2.14	0.47
1:A:542:THR:C	1:A:544:GLU:N	2.73	0.47
1:A:624:LEU:CD1	1:A:626:PRO:CG	2.86	0.47
1:A:713:ASP:O	1:A:714:LEU:HD23	2.13	0.47
1:B:38:LEU:CD1	1:B:501:VAL:C	2.85	0.47
1:B:96:THR:OG1	1:B:237:PHE:CE2	2.67	0.47
1:B:206:ASP:OD1	1:B:210:LEU:HD23	2.14	0.47
1:B:350:ASP:CG	1:B:430:VAL:N	2.72	0.47
1:B:439:LEU:HD23	1:B:439:LEU:O	2.15	0.47
1:B:467:VAL:HG13	1:B:469:GLU:HB2	1.95	0.47
1:B:593:TYR:CE1	1:B:595:VAL:HB	2.49	0.47
1:B:726:TRP:HE3	1:B:726:TRP:O	1.97	0.47
1:A:29:LEU:H	1:A:29:LEU:CD2	2.27	0.47
1:A:39:GLN:NE2	1:A:39:GLN:C	2.73	0.47
1:A:60:ASN:CA	1:A:156:HIS:CD2	2.86	0.47
1:A:101:GLU:CD	1:A:101:GLU:N	2.73	0.47
1:A:118:ILE:HG23	1:A:118:ILE:O	2.14	0.47
1:A:128:PRO:CA	1:A:129:THR:HB	2.45	0.47
1:A:144:GLU:C	1:A:146:PHE:N	2.72	0.47
1:A:170:TYR:CE2	1:A:578:TRP:CZ2	3.01	0.47
1:A:259:ARG:O	1:A:261:TRP:N	2.47	0.47
1:A:265:THR:CG2	1:A:267:LYS:CB	2.92	0.47
1:A:292:ILE:HG21	1:A:295:GLN:HG2	1.86	0.47
1:A:300:GLN:NE2	1:A:300:GLN:N	2.60	0.47
1:A:349:ILE:CD1	1:A:356:SER:HB2	2.44	0.47
1:A:351:HIS:ND1	1:A:427:ARG:HB2	2.29	0.47
1:A:393:ILE:HD13	1:A:393:ILE:H	1.80	0.47
1:A:418:THR:O	1:A:421:TYR:CD1	2.67	0.47
1:A:461:ALA:O	1:A:464:THR:CA	2.61	0.47
1:A:510:ALA:HB1	1:A:511:ALA:HA	1.96	0.47
1:A:520:TRP:HE3	1:A:542:THR:O	1.98	0.47
1:A:544:GLU:CB	1:A:545:PRO:CA	2.89	0.47
1:A:641:VAL:O	1:A:644:ASP:CG	2.58	0.47
1:A:710:ASP:CG	1:B:620:ARG:NH1	2.69	0.47
1:B:24:GLU:HB2	1:B:506:HIS:CE1	2.50	0.47
1:B:42:ARG:NH1	1:B:337:ASN:C	2.73	0.47
1:B:51:GLU:CD	1:B:564:LYS:HB3	2.40	0.47
1:B:75:GLN:CD	1:B:177:THR:HG21	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:THR:N	1:B:110:ILE:HG13	2.28	0.47
1:B:196:ARG:NE	1:B:196:ARG:C	2.73	0.47
1:B:222:PRO:O	1:B:223:ALA:HB3	2.14	0.47
1:B:226:SER:C	1:B:229:LEU:H	2.23	0.47
1:B:233:ALA:C	1:B:236:ALA:HB3	2.39	0.47
1:B:294:TYR:CE2	1:B:516:LEU:CD2	2.85	0.47
1:B:370:ILE:HG22	1:B:623:ILE:HD12	1.97	0.47
1:B:471:LEU:HD13	1:B:479:LEU:CB	2.45	0.47
1:B:523:ARG:CZ	1:B:523:ARG:CB	2.86	0.47
1:B:583:ALA:N	1:B:584:SER:CA	2.78	0.47
1:B:584:SER:OG	1:B:625:LYS:CE	2.62	0.47
1:A:3:ASN:HD21	1:A:439:LEU:HD21	1.77	0.47
1:A:8:ASP:O	1:A:11:GLY:N	2.48	0.47
1:A:13:ALA:O	1:A:15:GLY:N	2.48	0.47
1:A:51:GLU:N	1:A:564:LYS:HE2	2.29	0.47
1:A:237:PHE:CA	1:A:240:SER:CB	2.85	0.47
1:A:241:ARG:HG3	1:A:242:GLY:H	1.79	0.47
1:A:257:LEU:CG	1:A:261:TRP:CH2	2.98	0.47
1:A:345:GLN:CG	1:A:346:THR:N	2.78	0.47
1:A:453:ARG:O	1:A:454:ASP:HB3	2.14	0.47
1:A:505:GLU:OE2	1:A:507:GLN:CA	2.61	0.47
1:A:675:LEU:HD23	1:A:675:LEU:HA	1.73	0.47
1:A:729:LEU:CD1	1:A:729:LEU:C	2.85	0.47
1:B:182:ASN:C	1:B:186:LEU:HD13	2.34	0.47
1:B:205:VAL:CG2	1:B:232:ALA:CB	2.84	0.47
1:B:211:GLN:NE2	1:B:214:PHE:CZ	2.83	0.47
1:B:247:ASN:CG	1:B:248:ALA:N	2.72	0.47
1:B:349:ILE:CD1	1:B:351:HIS:N	2.73	0.47
1:B:519:VAL:HA	1:B:543:PRO:HA	1.97	0.47
1:B:617:ARG:CG	1:B:617:ARG:NH1	2.73	0.47
1:A:39:GLN:H	1:A:39:GLN:CD	2.23	0.47
1:A:94:GLN:HE22	1:A:237:PHE:HE1	1.54	0.47
1:A:135:LEU:CD1	1:A:151:THR:HG22	2.23	0.47
1:A:190:VAL:HA	1:A:323:GLU:HB2	1.97	0.47
1:A:199:LEU:C	1:A:201:ALA:N	2.69	0.47
1:A:252:SER:HB2	1:A:308:PHE:HE1	1.80	0.47
1:A:259:ARG:HA	1:A:259:ARG:HD3	1.56	0.47
1:A:305:GLU:O	1:A:306:VAL:C	2.58	0.47
1:A:347:SER:OG	1:A:554:PRO:HB3	2.15	0.47
1:A:596:THR:C	1:A:597:ILE:CG2	2.87	0.47
1:B:85:LEU:C	1:B:85:LEU:CD2	2.85	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:LYS:HA	1:B:128:PRO:CG	2.45	0.47
1:B:226:SER:C	1:B:229:LEU:N	2.73	0.47
1:B:309:SER:HB3	1:B:315:SER:OG	2.14	0.47
1:B:312:GLU:HG3	1:B:313:LEU:N	2.27	0.47
1:B:350:ASP:OD2	1:B:430:VAL:N	2.48	0.47
1:B:362:GLU:OE1	1:B:442:PRO:CA	2.63	0.47
1:B:472:GLU:CB	1:B:475:ALA:HB3	2.45	0.47
1:B:583:ALA:N	1:B:584:SER:HA	2.29	0.47
1:B:733:GLN:NE2	1:B:739:SER:C	2.73	0.47
1:A:21:ALA:O	1:A:299:LYS:CG	2.61	0.47
1:A:27:ASN:ND2	1:A:28:GLN:N	2.63	0.47
1:A:71:PHE:CD2	1:A:329:SER:HB2	2.49	0.47
1:A:209:MET:CG	1:A:210:LEU:N	2.72	0.47
1:A:221:ALA:C	1:A:224:LEU:N	2.72	0.47
1:A:257:LEU:CD2	1:A:261:TRP:CH2	2.98	0.47
1:A:291:PHE:CG	1:A:292:ILE:N	2.82	0.47
1:A:319:PRO:HD2	1:A:320:TRP:N	2.25	0.47
1:A:343:ILE:N	1:A:362:GLU:CD	2.73	0.47
1:A:462:LEU:CG	1:A:483:MET:SD	3.02	0.47
1:A:655:ARG:HB3	1:A:656:ASP:CG	2.39	0.47
1:B:14:ARG:CG	1:B:465:GLY:HA2	2.45	0.47
1:B:61:ILE:HG12	1:B:156:HIS:HA	1.96	0.47
1:B:80:LEU:HG	1:B:84:GLU:CG	2.45	0.47
1:B:105:LYS:C	1:B:109:TYR:H	2.06	0.47
1:B:146:PHE:HB2	1:B:150:THR:HG23	1.97	0.47
1:B:275:LEU:HD12	1:B:312:GLU:O	2.15	0.47
1:B:354:GLN:HA	1:B:355:PRO:HD3	1.64	0.47
1:B:361:TYR:CB	1:B:414:VAL:CB	2.93	0.47
1:B:361:TYR:HE1	1:B:441:PHE:CE2	2.29	0.47
1:B:364:TRP:C	1:B:561:LEU:HB2	2.40	0.47
1:B:403:PRO:HA	1:B:406:ASN:CG	2.38	0.47
1:B:437:MET:CE	1:B:550:ALA:CA	2.85	0.47
1:B:570:ASN:ND2	1:B:570:ASN:C	2.73	0.47
1:B:609:PHE:HD1	1:B:609:PHE:N	2.13	0.47
1:B:623:ILE:O	1:B:623:ILE:HD13	2.14	0.47
1:B:647:LEU:HD21	1:B:663:ILE:HD13	1.97	0.47
1:A:183:PHE:O	1:A:186:LEU:HD13	2.15	0.46
1:A:189:CYS:CA	1:A:323:GLU:HG3	2.44	0.46
1:A:210:LEU:HB3	1:A:224:LEU:HD21	1.96	0.46
1:A:272:SER:N	1:A:276:ARG:NH1	2.63	0.46
1:A:278:THR:C	1:A:279:ASN:ND2	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:ILE:CG1	1:A:282:ASP:N	2.78	0.46
1:A:421:TYR:CD1	1:A:421:TYR:N	2.81	0.46
1:A:573:THR:HG23	1:A:574:SER:N	2.30	0.46
1:A:580:TRP:CD1	1:A:581:HIS:HA	2.47	0.46
1:A:714:LEU:O	1:A:714:LEU:HG	2.13	0.46
1:A:750:LEU:HD12	1:A:750:LEU:C	2.40	0.46
1:B:12:SER:C	1:B:463:ARG:CA	2.88	0.46
1:B:22:ILE:CG2	1:B:517:TYR:CE1	2.91	0.46
1:B:75:GLN:C	1:B:77:GLY:N	2.73	0.46
1:B:82:VAL:C	1:B:84:GLU:N	2.72	0.46
1:B:178:ALA:CB	1:B:447:ARG:HH21	2.28	0.46
1:B:199:LEU:O	1:B:202:LEU:N	2.47	0.46
1:B:209:MET:HE2	1:B:209:MET:H	1.79	0.46
1:B:323:GLU:CD	1:B:324:ALA:N	2.73	0.46
1:B:481:ARG:C	1:B:485:ASN:ND2	2.73	0.46
1:B:600:LYS:NZ	1:B:707:LEU:HD21	2.29	0.46
1:B:618:ARG:NH2	1:B:619:GLU:C	2.72	0.46
1:B:719:ASN:C	1:B:721:HIS:N	2.70	0.46
1:A:40:PHE:O	1:A:286:SER:O	2.32	0.46
1:A:142:GLU:CD	1:A:143:HIS:NE2	2.73	0.46
1:A:183:PHE:HA	1:A:186:LEU:CD1	2.44	0.46
1:A:294:TYR:CZ	1:A:515:SER:N	2.83	0.46
1:A:342:TYR:HD1	1:A:362:GLU:OE2	1.98	0.46
1:A:422:GLU:HG3	1:B:116:ARG:CB	2.46	0.46
1:A:620:ARG:NH1	1:A:620:ARG:C	2.73	0.46
1:A:680:MET:O	1:A:683:THR:O	2.33	0.46
1:A:718:ILE:HG22	1:A:722:ARG:HG2	1.97	0.46
1:B:22:ILE:HG12	1:B:517:TYR:CD1	2.50	0.46
1:B:103:TRP:CZ2	1:B:230:ALA:O	2.68	0.46
1:B:156:HIS:CG	1:B:206:ASP:OD1	2.68	0.46
1:B:243:ASN:ND2	1:B:243:ASN:C	2.73	0.46
1:B:246:ALA:CA	1:B:249:VAL:HG12	2.44	0.46
1:B:433:ASN:N	1:B:433:ASN:ND2	2.60	0.46
1:B:501:VAL:HA	1:B:519:VAL:C	2.40	0.46
1:B:571:HIS:O	1:B:572:THR:C	2.58	0.46
1:B:620:ARG:O	1:B:621:VAL:CB	2.62	0.46
1:B:625:LYS:HD2	1:B:625:LYS:C	2.39	0.46
1:B:668:MET:CG	1:B:671:ALA:CB	2.93	0.46
1:B:754:ASN:C	1:B:756:LEU:N	2.73	0.46
1:A:8:ASP:C	1:A:11:GLY:N	2.73	0.46
1:A:24:GLU:CA	1:A:26:LYS:HE2	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:232:ALA:HA	1:A:235:THR:CG2	2.46	0.46
1:A:303:ARG:HG3	1:A:304:ALA:N	2.30	0.46
1:A:455:PRO:CA	1:A:458:ALA:HB3	2.46	0.46
1:A:478:ASP:HA	1:A:481:ARG:HB3	1.96	0.46
1:A:589:TYR:C	1:A:590:GLU:CD	2.83	0.46
1:A:601:ARG:HA	1:A:601:ARG:NE	2.29	0.46
1:A:627:THR:O	1:A:629:ALA:N	2.49	0.46
1:A:733:GLN:NE2	1:A:733:GLN:CA	2.76	0.46
1:B:47:SER:N	1:B:332:LYS:NZ	2.60	0.46
1:B:102:ILE:HG13	1:B:103:TRP:HZ3	1.79	0.46
1:B:257:LEU:O	1:B:260:LEU:HB3	2.14	0.46
1:B:258:GLY:O	1:B:262:SER:N	2.48	0.46
1:B:552:ASN:CA	1:B:553:LYS:HZ3	2.28	0.46
1:B:597:ILE:CG1	1:B:713:ASP:O	2.64	0.46
1:B:678:ILE:CD1	1:B:679:GLU:N	2.77	0.46
1:A:40:PHE:HE2	1:A:291:PHE:CB	2.25	0.46
1:A:182:ASN:HA	1:A:484:PHE:CD2	2.48	0.46
1:A:386:PHE:CE1	1:A:576:HIS:HD2	2.33	0.46
1:A:627:THR:O	1:A:628:VAL:C	2.58	0.46
1:A:695:GLN:O	1:A:699:VAL:HG23	2.15	0.46
1:B:24:GLU:HG3	1:B:28:GLN:HG3	1.97	0.46
1:B:41:THR:C	1:B:42:ARG:CG	2.88	0.46
1:B:73:TYR:O	1:B:77:GLY:N	2.48	0.46
1:B:99:ASN:C	1:B:101:GLU:N	2.72	0.46
1:B:176:ARG:HH22	1:B:447:ARG:CA	2.29	0.46
1:B:184:TYR:CA	1:B:187:VAL:CG2	2.85	0.46
1:B:191:ARG:HA	1:B:194:ASP:OD2	2.15	0.46
1:B:262:SER:HB2	1:B:269:LEU:CG	2.46	0.46
1:B:269:LEU:CD1	1:B:271:PRO:CD	2.85	0.46
1:B:368:LYS:CB	1:B:369:GLU:OE1	2.62	0.46
1:B:471:LEU:HB2	1:B:476:SER:CB	2.45	0.46
1:B:587:PHE:C	1:B:622:ARG:CD	2.88	0.46
1:B:604:ALA:HB2	1:B:698:ILE:CG2	2.26	0.46
1:B:668:MET:SD	1:B:671:ALA:CB	2.94	0.46
1:B:694:ALA:N	1:B:697:ARG:HH22	2.13	0.46
1:A:89:PHE:CD2	1:A:146:PHE:CE2	3.03	0.46
1:A:145:LEU:C	1:A:147:HIS:N	2.72	0.46
1:A:377:LYS:C	1:A:377:LYS:CE	2.85	0.46
1:A:449:TYR:OH	1:A:737:LEU:HD21	2.14	0.46
1:A:517:TYR:O	1:A:517:TYR:CD1	2.69	0.46
1:A:530:VAL:CG2	1:A:551:TYR:HE2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:544:GLU:CG	1:A:547:GLU:CG	2.93	0.46
1:A:566:LEU:HD12	1:A:567:ASP:C	2.39	0.46
1:A:629:ALA:HB3	1:A:735:MET:HE2	1.98	0.46
1:B:14:ARG:HH12	1:B:17:THR:CG2	2.28	0.46
1:B:103:TRP:NE1	1:B:231:ASN:N	2.63	0.46
1:B:211:GLN:O	1:B:214:PHE:CE1	2.67	0.46
1:B:288:LEU:CD1	1:B:495:VAL:HG21	2.45	0.46
1:B:349:ILE:CD1	1:B:351:HIS:CA	2.93	0.46
1:B:630:HIS:CD2	1:B:738:LEU:HD13	2.51	0.46
1:B:674:LEU:O	1:B:677:LYS:HB2	2.15	0.46
1:A:126:VAL:HG22	1:A:166:PRO:HD3	1.96	0.46
1:A:291:PHE:C	1:A:292:ILE:CG1	2.85	0.46
1:A:323:GLU:C	1:A:326:SER:HG	2.21	0.46
1:A:365:GLN:N	1:A:562:GLN:CA	2.65	0.46
1:A:549:ILE:C	1:A:552:ASN:H	2.23	0.46
1:A:597:ILE:HG12	1:A:602:TYR:CZ	2.46	0.46
1:A:624:LEU:HD12	1:A:626:PRO:HG2	1.95	0.46
1:A:654:SER:CA	1:A:655:ARG:CB	2.59	0.46
1:B:4:LEU:HD12	1:B:4:LEU:N	2.29	0.46
1:B:42:ARG:CA	1:B:43:THR:HB	2.45	0.46
1:B:61:ILE:O	1:B:62:ASP:HB3	2.16	0.46
1:B:118:ILE:O	1:B:221:ALA:HA	2.15	0.46
1:B:163:PHE:HB3	1:B:164:ILE:HB	1.96	0.46
1:B:251:SER:HA	1:B:301:ARG:HH22	1.80	0.46
1:B:262:SER:HB3	1:B:269:LEU:HG	1.97	0.46
1:B:358:VAL:O	1:B:359:VAL:HB	2.15	0.46
1:B:373:PHE:HE2	1:B:583:ALA:HA	0.83	0.46
1:B:376:VAL:N	1:B:386:PHE:N	2.60	0.46
1:B:448:ASP:HA	1:B:453:ARG:HD3	1.98	0.46
1:B:500:GLU:HB3	1:B:520:TRP:HB3	1.97	0.46
1:B:523:ARG:N	1:B:539:SER:OG	2.48	0.46
1:B:597:ILE:O	1:B:598:ARG:C	2.54	0.46
1:A:81:SER:O	1:A:84:GLU:CA	2.64	0.46
1:A:126:VAL:HG22	1:A:165:LEU:CB	2.31	0.46
1:A:127:PRO:CD	1:A:130:ALA:C	2.87	0.46
1:A:144:GLU:C	1:A:145:LEU:CG	2.86	0.46
1:A:234:THR:O	1:A:237:PHE:C	2.59	0.46
1:A:263:PRO:HD2	1:A:516:LEU:HD22	1.98	0.46
1:A:408:PHE:CE1	1:A:636:TRP:CE2	2.96	0.46
1:A:439:LEU:HB2	1:A:441:PHE:HE1	1.80	0.46
1:A:448:ASP:O	1:A:452:ASP:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:TRP:CE2	1:A:545:PRO:HG2	2.50	0.46
1:A:540:ILE:HG13	1:A:551:TYR:CE2	2.50	0.46
1:A:669:GLN:CG	1:A:670:ASN:N	2.77	0.46
1:A:729:LEU:HD21	1:A:738:LEU:HD13	1.93	0.46
1:A:744:GLU:O	1:A:747:THR:CG2	2.59	0.46
1:B:14:ARG:HA	1:B:17:THR:HG23	1.97	0.46
1:B:16:LEU:O	1:B:487:TYR:HE2	1.98	0.46
1:B:52:LEU:O	1:B:173:ARG:C	2.58	0.46
1:B:118:ILE:HG23	1:B:120:ALA:HB2	1.97	0.46
1:B:119:LYS:HZ2	1:B:218:GLY:H	1.63	0.46
1:B:209:MET:CG	1:B:225:ILE:HG22	2.44	0.46
1:B:220:LEU:HD23	1:B:224:LEU:CD1	2.37	0.46
1:B:282:ASP:HA	1:B:285:ARG:NE	2.31	0.46
1:B:408:PHE:O	1:B:410:VAL:HG13	2.15	0.46
1:B:592:ALA:CA	1:B:726:TRP:CH2	2.94	0.46
1:B:691:VAL:HA	1:B:723:ILE:HD11	1.96	0.46
1:B:726:TRP:HZ3	1:B:729:LEU:CB	2.29	0.46
1:A:12:SER:C	1:A:14:ARG:N	2.70	0.46
1:A:55:GLU:HG3	1:A:170:TYR:H	1.79	0.46
1:A:183:PHE:O	1:A:187:VAL:HG23	2.15	0.46
1:A:349:ILE:HD12	1:A:357:HIS:N	2.21	0.46
1:A:410:VAL:C	1:A:412:ALA:H	2.24	0.46
1:A:436:GLU:OE1	1:A:439:LEU:HD13	2.14	0.46
1:A:532:TYR:CE1	1:A:543:PRO:CD	2.99	0.46
1:A:615:GLY:HA2	1:A:616:GLN:HA	1.61	0.46
1:A:660:LYS:CG	1:A:661:LEU:N	2.79	0.46
1:A:739:SER:CA	1:A:742:GLU:OE2	2.63	0.46
1:B:33:ALA:O	1:B:35:GLN:OE1	2.34	0.46
1:B:44:PHE:CD2	1:B:333:LEU:CD2	2.98	0.46
1:B:44:PHE:HD1	1:B:333:LEU:HD13	1.73	0.46
1:B:340:THR:O	1:B:342:TYR:CD2	2.67	0.46
1:B:350:ASP:CB	1:B:427:ARG:O	2.61	0.46
1:B:363:ASP:N	1:B:441:PHE:CD2	2.84	0.46
1:B:500:GLU:O	1:B:520:TRP:CG	2.69	0.46
1:B:555:ILE:HA	1:B:556:GLN:NE2	2.31	0.46
1:A:18:GLN:CG	1:A:491:MET:CE	2.91	0.46
1:A:41:THR:HG23	1:A:42:ARG:NH1	2.31	0.46
1:A:86:VAL:CB	1:A:191:ARG:HD2	2.30	0.46
1:A:201:ALA:O	1:A:204:SER:OG	2.28	0.46
1:A:336:ILE:O	1:A:340:THR:CG2	2.64	0.46
1:A:523:ARG:C	1:A:539:SER:CB	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:577:ILE:HB	1:A:579:PRO:CD	2.42	0.46
1:A:597:ILE:CG1	1:A:602:TYR:CE1	2.87	0.46
1:A:638:SER:O	1:A:641:VAL:CA	2.64	0.46
1:A:677:LYS:O	1:A:681:ILE:HG12	2.16	0.46
1:A:743:ALA:O	1:A:746:LEU:HB3	2.16	0.46
1:B:29:LEU:CD1	1:B:532:TYR:CZ	2.99	0.46
1:B:361:TYR:HB2	1:B:414:VAL:CG1	2.46	0.46
1:B:368:LYS:N	1:B:368:LYS:CD	2.73	0.46
1:B:630:HIS:C	1:B:634:GLN:NE2	2.72	0.46
1:A:169:ALA:O	1:A:170:TYR:CD1	2.68	0.46
1:A:177:THR:HA	1:A:447:ARG:NH1	2.13	0.46
1:A:345:GLN:HG2	1:A:556:GLN:CA	2.46	0.46
1:A:350:ASP:O	1:A:353:GLY:HA2	2.16	0.46
1:A:527:ARG:NH1	1:A:528:ILE:N	2.60	0.46
1:A:687:GLY:O	1:A:690:ALA:HB3	2.17	0.46
1:B:46:ALA:HB3	1:B:179:THR:O	2.16	0.46
1:B:66:TYR:HA	1:B:69:LEU:HD23	1.97	0.46
1:B:70:PHE:CD1	1:B:85:LEU:HD21	2.50	0.46
1:B:97:ALA:C	1:B:99:ASN:H	2.21	0.46
1:B:165:LEU:C	1:B:165:LEU:HD13	2.41	0.46
1:B:274:ARG:N	1:B:274:ARG:HD3	2.30	0.46
1:B:391:PRO:HA	1:B:395:ASP:OD2	2.16	0.46
1:B:415:LYS:HZ1	1:B:419:ALA:CB	2.19	0.46
1:B:424:VAL:HG21	1:B:430:VAL:CG1	2.44	0.46
1:B:534:ALA:N	1:B:535:ILE:C	2.73	0.46
1:B:570:ASN:ND2	1:B:571:HIS:N	2.64	0.46
1:B:586:GLU:C	1:B:622:ARG:CD	2.89	0.46
1:B:733:GLN:HG2	1:B:740:ARG:HB2	1.97	0.46
1:A:34:LEU:O	1:A:502:VAL:HG13	2.16	0.45
1:A:61:ILE:HG13	1:A:152:ASP:HB3	1.97	0.45
1:A:237:PHE:C	1:A:240:SER:HB3	2.41	0.45
1:A:417:ARG:NH1	1:A:417:ARG:HG2	2.31	0.45
1:A:419:ALA:O	1:A:421:TYR:CD1	2.69	0.45
1:A:577:ILE:O	1:A:578:TRP:CD1	2.69	0.45
1:A:719:ASN:HA	1:A:722:ARG:HB2	1.97	0.45
1:A:750:LEU:O	1:A:753:SER:C	2.59	0.45
1:B:5:LYS:HA	1:B:435:ALA:HB3	1.96	0.45
1:B:38:LEU:CD2	1:B:501:VAL:CA	2.91	0.45
1:B:153:PHE:HE2	1:B:202:LEU:CB	2.29	0.45
1:B:255:THR:OG1	1:B:259:ARG:NH1	2.49	0.45
1:B:260:LEU:HD21	1:B:285:ARG:HB3	1.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:262:SER:CB	1:B:269:LEU:HD21	2.45	0.45
1:B:318:ILE:CD1	1:B:318:ILE:H	2.29	0.45
1:B:321:PHE:CD1	1:B:325:MET:HE2	2.51	0.45
1:B:322:ILE:HG22	1:B:325:MET:SD	2.56	0.45
1:B:415:LYS:NZ	1:B:415:LYS:C	2.73	0.45
1:B:501:VAL:HG11	1:B:518:LEU:HB2	1.91	0.45
1:B:540:ILE:HG23	1:B:551:TYR:HD2	1.81	0.45
1:B:591:ASP:O	1:B:726:TRP:HH2	1.99	0.45
1:B:602:TYR:CE1	1:B:701:GLN:O	2.69	0.45
1:B:707:LEU:CD1	1:B:707:LEU:H	2.28	0.45
1:B:747:THR:HA	1:B:750:LEU:HD23	1.98	0.45
1:A:35:GLN:HB3	1:A:263:PRO:CB	2.46	0.45
1:A:36:LEU:O	1:A:502:VAL:HB	2.15	0.45
1:A:222:PRO:CA	1:A:224:LEU:H	2.19	0.45
1:A:237:PHE:O	1:A:237:PHE:CD1	2.70	0.45
1:A:338:GLU:O	1:A:340:THR:N	2.50	0.45
1:A:404:ILE:C	1:A:406:ASN:H	2.24	0.45
1:A:408:PHE:CD1	1:A:408:PHE:N	2.82	0.45
1:A:478:ASP:O	1:A:481:ARG:HB3	2.16	0.45
1:A:523:ARG:HG2	1:A:538:GLY:C	2.42	0.45
1:A:633:ILE:HG13	1:A:634:GLN:N	2.31	0.45
1:B:75:GLN:NE2	1:B:177:THR:HG21	2.31	0.45
1:B:136:ARG:NH1	1:B:147:HIS:NE2	2.64	0.45
1:B:216:ALA:HB1	1:B:217:LYS:O	2.15	0.45
1:B:255:THR:C	1:B:259:ARG:NH1	2.73	0.45
1:B:313:LEU:HA	1:B:314:SER:HA	1.71	0.45
1:B:332:LYS:CD	1:B:334:ARG:HE	2.29	0.45
1:B:361:TYR:HD2	1:B:414:VAL:CG1	2.28	0.45
1:B:575:ILE:HB	1:B:576:HIS:O	2.16	0.45
1:A:37:PRO:O	1:A:38:LEU:HB2	2.16	0.45
1:A:89:PHE:CD1	1:A:89:PHE:C	2.94	0.45
1:A:135:LEU:O	1:A:137:THR:N	2.49	0.45
1:A:188:ASP:OD1	1:A:188:ASP:N	2.48	0.45
1:A:221:ALA:CB	1:A:225:ILE:H	2.26	0.45
1:A:259:ARG:CA	1:A:266:PRO:HG3	2.47	0.45
1:A:523:ARG:N	1:A:539:SER:OG	2.48	0.45
1:A:546:LEU:O	1:A:550:ALA:N	2.49	0.45
1:A:663:ILE:CG1	1:A:664:ASP:N	2.79	0.45
1:A:735:MET:HG3	1:A:737:LEU:C	2.40	0.45
1:B:102:ILE:HG22	1:B:135:LEU:HG	1.99	0.45
1:B:322:ILE:O	1:B:326:SER:OG	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:ARG:NH1	1:B:453:ARG:HA	2.32	0.45
1:B:471:LEU:CG	1:B:476:SER:HA	2.44	0.45
1:B:526:LEU:HD23	1:B:527:ARG:N	2.06	0.45
1:B:625:LYS:N	1:B:625:LYS:CE	2.78	0.45
1:B:715:HIS:HA	1:B:719:ASN:ND2	2.30	0.45
1:A:38:LEU:O	1:A:518:LEU:HG	2.15	0.45
1:A:75:GLN:HE22	1:A:177:THR:CG2	2.29	0.45
1:A:195:LEU:HD23	1:A:199:LEU:CB	2.46	0.45
1:A:652:ARG:HG3	1:A:652:ARG:NH1	2.25	0.45
1:A:653:THR:CG2	1:A:655:ARG:CG	2.95	0.45
1:B:36:LEU:N	1:B:36:LEU:CD1	2.73	0.45
1:B:104:ARG:O	1:B:108:ALA:HB2	2.17	0.45
1:B:113:SER:CB	1:B:115:ASN:CG	2.83	0.45
1:B:149:ILE:C	1:B:151:THR:N	2.73	0.45
1:B:171:VAL:CB	1:B:575:ILE:HD13	2.46	0.45
1:B:176:ARG:NE	1:B:176:ARG:C	2.72	0.45
1:B:491:MET:HE2	1:B:494:ALA:CB	2.47	0.45
1:B:512:GLU:C	1:B:514:GLY:N	2.71	0.45
1:B:726:TRP:CE3	1:B:726:TRP:O	2.70	0.45
1:A:73:TYR:O	1:A:73:TYR:CD1	2.70	0.45
1:A:126:VAL:O	1:A:166:PRO:CD	2.64	0.45
1:A:157:VAL:C	1:A:158:LEU:HD12	2.41	0.45
1:A:278:THR:C	1:A:279:ASN:CG	2.85	0.45
1:A:327:GLU:OE1	1:A:333:LEU:HG	2.16	0.45
1:A:359:VAL:CG2	1:A:639:TRP:HZ2	2.27	0.45
1:A:384:GLN:H	1:A:384:GLN:HG2	1.63	0.45
1:A:521:ASN:HD22	1:A:539:SER:CB	2.08	0.45
1:A:655:ARG:H	1:A:656:ASP:CA	2.30	0.45
1:B:122:ALA:O	1:B:164:ILE:HB	2.16	0.45
1:B:126:VAL:O	1:B:129:THR:OG1	2.35	0.45
1:B:215:LYS:H	1:B:220:LEU:HD13	1.75	0.45
1:B:316:THR:O	1:B:320:TRP:CD1	2.70	0.45
1:B:361:TYR:O	1:B:441:PHE:CD1	2.70	0.45
1:B:375:PRO:O	1:B:385:ARG:NH1	2.50	0.45
1:B:451:LEU:C	1:B:452:ASP:CG	2.83	0.45
1:B:707:LEU:HD13	1:B:707:LEU:N	2.31	0.45
1:A:29:LEU:N	1:A:29:LEU:CD2	2.73	0.45
1:A:73:TYR:C	1:A:73:TYR:HD1	2.25	0.45
1:A:270:ASP:O	1:A:272:SER:OG	2.35	0.45
1:A:536:GLU:C	1:A:536:GLU:CD	2.85	0.45
1:A:738:LEU:HA	1:A:742:GLU:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:747:THR:HG23	1:A:748:LYS:N	2.31	0.45
1:B:14:ARG:O	1:B:17:THR:HG23	2.17	0.45
1:B:43:THR:CG2	1:B:289:ALA:N	2.76	0.45
1:B:61:ILE:CG1	1:B:156:HIS:HA	2.47	0.45
1:B:62:ASP:CG	1:B:63:PRO:CD	2.86	0.45
1:B:65:MET:HE2	1:B:65:MET:HB2	1.91	0.45
1:B:161:LEU:HD13	1:B:161:LEU:N	2.32	0.45
1:B:191:ARG:HA	1:B:191:ARG:CZ	2.46	0.45
1:B:259:ARG:HB3	1:B:269:LEU:HD13	1.98	0.45
1:B:279:ASN:OD1	1:B:279:ASN:N	2.50	0.45
1:B:412:ALA:CA	1:B:415:LYS:HB3	2.44	0.45
1:B:463:ARG:NH1	1:B:463:ARG:HB2	2.32	0.45
1:B:491:MET:HE2	1:B:494:ALA:HB3	1.99	0.45
1:B:580:TRP:CG	1:B:581:HIS:N	2.85	0.45
1:B:687:GLY:O	1:B:690:ALA:HB3	2.17	0.45
1:B:733:GLN:CD	1:B:739:SER:C	2.83	0.45
1:B:735:MET:HG3	1:B:737:LEU:HD11	1.97	0.45
1:A:40:PHE:CE2	1:A:291:PHE:N	2.68	0.45
1:A:142:GLU:OE1	1:A:143:HIS:CE1	2.70	0.45
1:A:142:GLU:OE1	1:A:143:HIS:CD2	2.70	0.45
1:A:143:HIS:O	1:A:146:PHE:CE1	2.69	0.45
1:A:231:ASN:OD1	1:A:231:ASN:N	2.48	0.45
1:A:237:PHE:C	1:A:237:PHE:CD1	2.95	0.45
1:A:272:SER:O	1:A:275:LEU:CA	2.65	0.45
1:A:287:ASN:HD22	1:A:290:LEU:HG	1.81	0.45
1:A:384:GLN:HB3	1:A:578:TRP:CD1	2.49	0.45
1:A:589:TYR:CE2	1:A:590:GLU:C	2.95	0.45
1:A:612:LEU:C	1:A:614:LEU:H	2.24	0.45
1:A:666:ARG:CB	1:A:669:GLN:OE1	2.64	0.45
1:B:46:ALA:C	1:B:334:ARG:NH2	2.75	0.45
1:B:96:THR:OG1	1:B:237:PHE:CD2	2.68	0.45
1:B:125:LYS:CE	1:B:163:PHE:CE1	3.00	0.45
1:B:220:LEU:O	1:B:224:LEU:HD21	2.17	0.45
1:B:243:ASN:ND2	1:B:244:PHE:CB	2.73	0.45
1:B:317:ILE:C	1:B:319:PRO:CD	2.88	0.45
1:B:334:ARG:HG2	1:B:334:ARG:HH11	1.81	0.45
1:B:342:TYR:CD2	1:B:559:GLU:OE2	2.70	0.45
1:B:349:ILE:HD11	1:B:351:HIS:HA	1.99	0.45
1:B:361:TYR:O	1:B:441:PHE:CE1	2.69	0.45
1:B:361:TYR:O	1:B:441:PHE:CE2	2.70	0.45
1:B:494:ALA:O	1:B:520:TRP:CH2	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:501:VAL:CG1	1:B:520:TRP:NE1	2.77	0.45
1:B:577:ILE:HD12	1:B:578:TRP:H	0.66	0.45
1:B:597:ILE:HB	1:B:714:LEU:CG	2.45	0.45
1:B:597:ILE:CD1	1:B:713:ASP:C	2.88	0.45
1:B:634:GLN:O	1:B:637:TYR:HD1	1.99	0.45
1:B:647:LEU:C	1:B:647:LEU:CD1	2.85	0.45
1:B:674:LEU:HD13	1:B:749:VAL:CG2	2.44	0.45
1:A:213:THR:CG2	1:A:215:LYS:HZ2	2.29	0.45
1:A:237:PHE:C	1:A:240:SER:CB	2.90	0.45
1:A:401:LEU:HD13	1:A:404:ILE:HB	1.98	0.45
1:A:534:ALA:C	1:A:535:ILE:HG23	2.41	0.45
1:A:544:GLU:CD	1:A:544:GLU:C	2.85	0.45
1:A:562:GLN:NE2	1:A:563:ALA:O	2.50	0.45
1:A:572:THR:O	1:A:574:SER:C	2.54	0.45
1:A:589:TYR:CE2	1:A:590:GLU:O	2.70	0.45
1:B:166:PRO:O	1:B:167:ASP:OD1	2.35	0.45
1:B:256:ILE:N	1:B:259:ARG:HH11	2.14	0.45
1:B:307:ILE:O	1:B:308:PHE:C	2.60	0.45
1:B:361:TYR:O	1:B:441:PHE:CZ	2.70	0.45
1:B:372:ALA:HB2	1:B:389:VAL:CG2	2.33	0.45
1:B:424:VAL:C	1:B:430:VAL:HA	2.24	0.45
1:B:441:PHE:CD1	1:B:441:PHE:N	2.84	0.45
1:B:448:ASP:CB	1:B:453:ARG:CG	2.94	0.45
1:B:666:ARG:HD2	1:B:669:GLN:NE2	2.31	0.45
1:B:716:VAL:HB	1:B:718:ILE:N	2.32	0.45
1:A:22:ILE:N	1:A:22:ILE:HD13	2.32	0.45
1:A:40:PHE:CD2	1:A:291:PHE:N	2.84	0.45
1:A:40:PHE:HD1	1:A:42:ARG:H	1.55	0.45
1:A:46:ALA:HB3	1:A:334:ARG:NH2	2.11	0.45
1:A:53:LEU:O	1:A:54:TRP:CD2	2.70	0.45
1:A:161:LEU:O	1:A:163:PHE:CA	2.60	0.45
1:A:365:GLN:HE21	1:A:367:ALA:CA	2.29	0.45
1:A:365:GLN:O	1:A:366:PHE:CD1	2.70	0.45
1:A:540:ILE:O	1:A:542:THR:HB	2.17	0.45
1:B:60:ASN:C	1:B:61:ILE:CG1	2.89	0.45
1:B:97:ALA:O	1:B:99:ASN:N	2.50	0.45
1:B:118:ILE:CG1	1:B:119:LYS:H	2.22	0.45
1:B:143:HIS:HB3	1:B:145:LEU:CD2	2.44	0.45
1:B:361:TYR:O	1:B:441:PHE:CD2	2.70	0.45
1:B:491:MET:C	1:B:494:ALA:H	2.25	0.45
1:A:131:ILE:O	1:A:134:GLN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:GLU:OE1	1:A:143:HIS:CG	2.70	0.45
1:A:180:TYR:CD1	1:A:180:TYR:O	2.70	0.45
1:A:252:SER:HB2	1:A:308:PHE:CE1	2.52	0.45
1:A:365:GLN:OE1	1:A:366:PHE:CD1	2.70	0.45
1:A:426:GLN:HG3	1:A:426:GLN:O	2.16	0.45
1:A:477:ASN:C	1:A:480:LYS:HB3	2.41	0.45
1:A:490:VAL:HG23	1:A:491:MET:HG2	1.98	0.45
1:A:505:GLU:N	1:A:516:LEU:HB3	2.31	0.45
1:A:525:GLU:CD	1:A:526:LEU:C	2.85	0.45
1:A:676:ARG:O	1:A:679:GLU:CG	2.65	0.45
1:A:729:LEU:HD12	1:A:733:GLN:CG	2.14	0.45
1:B:43:THR:N	1:B:334:ARG:HB2	2.31	0.45
1:B:43:THR:C	1:B:334:ARG:HB2	2.42	0.45
1:B:53:LEU:HD13	1:B:568:LEU:HB3	1.98	0.45
1:B:171:VAL:HG21	1:B:575:ILE:CD1	2.47	0.45
1:B:173:ARG:HH22	1:B:578:TRP:HZ2	1.65	0.45
1:B:210:LEU:HD12	1:B:210:LEU:C	2.40	0.45
1:B:403:PRO:O	1:B:406:ASN:CA	2.64	0.45
1:B:630:HIS:CE1	1:B:634:GLN:OE1	2.70	0.45
1:A:4:LEU:CG	1:A:436:GLU:HG2	2.44	0.44
1:A:38:LEU:C	1:A:501:VAL:CG1	2.86	0.44
1:A:44:PHE:CG	1:A:332:LYS:O	2.70	0.44
1:A:53:LEU:C	1:A:54:TRP:CD2	2.95	0.44
1:A:59:GLY:O	1:A:156:HIS:HB2	2.15	0.44
1:A:92:TYR:C	1:A:95:SER:HG	2.21	0.44
1:A:212:ALA:CB	1:A:221:ALA:N	2.79	0.44
1:A:308:PHE:O	1:A:308:PHE:CD2	2.70	0.44
1:A:364:TRP:CE3	1:A:561:LEU:O	2.70	0.44
1:A:421:TYR:HD1	1:A:421:TYR:N	2.15	0.44
1:A:433:ASN:HB3	1:A:434:GLY:C	2.42	0.44
1:A:494:ALA:HB1	1:A:545:PRO:HB2	1.97	0.44
1:A:541:ARG:NE	1:A:541:ARG:N	2.64	0.44
1:A:541:ARG:HD2	1:A:542:THR:N	2.32	0.44
1:A:578:TRP:C	1:A:580:TRP:N	2.75	0.44
1:A:593:TYR:CD1	1:A:593:TYR:O	2.70	0.44
1:A:597:ILE:CG1	1:A:598:ARG:N	2.79	0.44
1:A:748:LYS:HA	1:A:748:LYS:HE2	1.98	0.44
1:B:36:LEU:HB2	1:B:37:PRO:CD	2.37	0.44
1:B:92:TYR:CE2	1:B:146:PHE:CB	3.00	0.44
1:B:102:ILE:O	1:B:106:LEU:HB2	2.16	0.44
1:B:153:PHE:CE2	1:B:202:LEU:CA	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:232:ALA:HA	1:B:235:THR:OG1	2.17	0.44
1:B:291:PHE:CZ	1:B:503:VAL:HG22	2.53	0.44
1:B:363:ASP:N	1:B:441:PHE:CB	2.72	0.44
1:B:543:PRO:HG2	1:B:544:GLU:N	2.31	0.44
1:B:673:THR:CG2	1:B:677:LYS:NZ	2.73	0.44
1:B:712:SER:OG	1:B:714:LEU:CA	2.65	0.44
1:A:99:ASN:HD21	1:A:101:GLU:CD	2.23	0.44
1:A:182:ASN:OD1	1:A:183:PHE:N	2.50	0.44
1:A:212:ALA:CB	1:A:220:LEU:C	2.90	0.44
1:A:298:VAL:O	1:A:299:LYS:C	2.60	0.44
1:A:327:GLU:CA	1:A:331:PHE:HZ	2.27	0.44
1:A:345:GLN:CA	1:A:360:VAL:CB	2.96	0.44
1:A:363:ASP:HB3	1:A:561:LEU:O	2.17	0.44
1:A:365:GLN:CG	1:A:367:ALA:CB	2.95	0.44
1:A:386:PHE:CE1	1:A:576:HIS:CG	3.05	0.44
1:A:546:LEU:C	1:A:546:LEU:CD1	2.85	0.44
1:A:547:GLU:C	1:A:550:ALA:HB3	2.42	0.44
1:A:615:GLY:C	1:A:616:GLN:HE21	2.23	0.44
1:A:751:GLY:C	1:A:753:SER:H	2.25	0.44
1:B:69:LEU:N	1:B:69:LEU:CD2	2.76	0.44
1:B:145:LEU:N	1:B:145:LEU:CD1	2.72	0.44
1:B:216:ALA:CA	1:B:217:LYS:HB2	2.47	0.44
1:B:275:LEU:CD2	1:B:278:THR:HB	2.47	0.44
1:B:366:PHE:CB	1:B:563:ALA:HB2	2.47	0.44
1:B:370:ILE:CG2	1:B:625:LYS:CB	2.96	0.44
1:B:415:LYS:CD	1:B:416:ASN:N	2.81	0.44
1:B:439:LEU:HD23	1:B:439:LEU:H	1.82	0.44
1:B:442:PRO:O	1:B:445:VAL:HG23	2.17	0.44
1:B:442:PRO:O	1:B:446:GLU:HB3	2.17	0.44
1:B:472:GLU:CD	1:B:473:ALA:N	2.72	0.44
1:B:482:SER:O	1:B:486:TYR:CG	2.71	0.44
1:B:498:ASN:ND2	1:B:500:GLU:H	2.15	0.44
1:B:530:VAL:HG23	1:B:533:ASN:O	2.17	0.44
1:B:594:SER:CB	1:B:603:THR:CA	2.95	0.44
1:A:92:TYR:C	1:A:92:TYR:CD1	2.95	0.44
1:A:126:VAL:HG13	1:A:165:LEU:C	2.19	0.44
1:A:144:GLU:C	1:A:145:LEU:HG	2.40	0.44
1:A:157:VAL:C	1:A:160:PRO:HD3	2.42	0.44
1:A:241:ARG:HG3	1:A:242:GLY:N	2.30	0.44
1:A:258:GLY:N	1:A:261:TRP:CE3	2.85	0.44
1:A:333:LEU:O	1:A:334:ARG:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:PRO:HA	1:A:336:ILE:HD13	2.00	0.44
1:A:357:HIS:HA	1:A:437:MET:HG2	1.98	0.44
1:A:373:PHE:CD1	1:A:373:PHE:O	2.70	0.44
1:A:401:LEU:HA	1:A:404:ILE:HB	1.99	0.44
1:A:605:GLU:HB2	1:A:607:LYS:NZ	2.32	0.44
1:A:651:ARG:CG	1:A:660:LYS:CB	2.95	0.44
1:B:153:PHE:CE2	1:B:202:LEU:O	2.70	0.44
1:B:182:ASN:CB	1:B:484:PHE:CE2	2.96	0.44
1:B:183:PHE:HE1	1:B:250:VAL:CG1	2.12	0.44
1:B:254:LEU:HA	1:B:254:LEU:HD12	1.74	0.44
1:B:459:ILE:O	1:B:462:LEU:HD12	2.17	0.44
1:B:493:TYR:O	1:B:497:HIS:CD2	2.70	0.44
1:B:542:THR:CG2	1:B:547:GLU:CB	2.91	0.44
1:B:650:ALA:CA	1:B:653:THR:OG1	2.62	0.44
1:B:682:GLY:HA2	1:B:731:VAL:HG23	1.99	0.44
1:B:717:GLY:O	1:B:721:HIS:CE1	2.70	0.44
1:B:738:LEU:HD22	1:B:738:LEU:N	2.29	0.44
1:A:4:LEU:HD23	1:A:13:ALA:CB	2.47	0.44
1:A:16:LEU:O	1:A:487:TYR:CE1	2.71	0.44
1:A:37:PRO:CB	1:A:501:VAL:CG2	2.86	0.44
1:A:40:PHE:HB2	1:A:288:LEU:CA	2.44	0.44
1:A:131:ILE:CG2	1:A:135:LEU:HD21	2.47	0.44
1:A:246:ALA:C	1:A:249:VAL:HG22	2.43	0.44
1:A:313:LEU:HA	1:A:315:SER:OG	2.15	0.44
1:A:413:PHE:CD1	1:A:639:TRP:HB2	2.52	0.44
1:A:479:LEU:N	1:A:479:LEU:CD1	2.73	0.44
1:A:497:HIS:NE2	1:A:549:ILE:HD13	2.33	0.44
1:A:520:TRP:O	1:A:542:THR:CB	2.65	0.44
1:A:522:VAL:CG2	1:A:523:ARG:N	2.71	0.44
1:A:605:GLU:OE1	1:A:697:ARG:HG2	2.18	0.44
1:A:623:ILE:HD13	1:A:623:ILE:HA	1.81	0.44
1:B:45:SER:OG	1:B:46:ALA:N	2.51	0.44
1:B:47:SER:HB3	1:B:332:LYS:CE	2.37	0.44
1:B:104:ARG:HA	1:B:107:THR:OG1	2.16	0.44
1:B:123:VAL:C	1:B:163:PHE:CD2	2.95	0.44
1:B:144:GLU:HA	1:B:147:HIS:HB3	1.99	0.44
1:B:148:HIS:C	1:B:148:HIS:ND1	2.75	0.44
1:B:156:HIS:CD2	1:B:206:ASP:OD1	2.70	0.44
1:B:158:LEU:C	1:B:158:LEU:CD2	2.85	0.44
1:B:172:TYR:CZ	1:B:579:PRO:HD2	2.52	0.44
1:B:348:ALA:HA	1:B:421:TYR:OH	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:630:HIS:C	1:B:634:GLN:HE22	2.25	0.44
1:B:641:VAL:HG13	1:B:748:LYS:HZ2	1.82	0.44
1:B:672:VAL:CG1	1:B:673:THR:N	2.80	0.44
1:B:744:GLU:C	1:B:747:THR:HG1	2.13	0.44
1:A:6:VAL:O	1:A:9:LEU:HD13	2.17	0.44
1:A:18:GLN:CA	1:A:21:ALA:CB	2.83	0.44
1:A:21:ALA:HA	1:A:487:TYR:CZ	2.53	0.44
1:A:40:PHE:HB2	1:A:288:LEU:CB	2.48	0.44
1:A:126:VAL:HG23	1:A:131:ILE:HD11	2.00	0.44
1:A:145:LEU:CA	1:A:148:HIS:H	2.31	0.44
1:A:160:PRO:CB	1:A:208:LYS:CD	2.86	0.44
1:A:234:THR:HG22	1:A:237:PHE:HB3	1.97	0.44
1:A:346:THR:CB	1:A:359:VAL:O	2.65	0.44
1:A:372:ALA:CB	1:A:394:SER:OG	2.65	0.44
1:A:478:ASP:C	1:A:480:LYS:N	2.72	0.44
1:B:37:PRO:O	1:B:38:LEU:CD1	2.63	0.44
1:B:52:LEU:CD1	1:B:53:LEU:N	2.79	0.44
1:B:86:VAL:CG1	1:B:191:ARG:HD3	2.47	0.44
1:B:215:LYS:O	1:B:216:ALA:HB3	2.18	0.44
1:B:288:LEU:HD13	1:B:495:VAL:CG2	2.48	0.44
1:B:423:ALA:C	1:B:424:VAL:CG2	2.91	0.44
1:B:438:THR:HA	1:B:439:LEU:HD22	1.99	0.44
1:B:696:SER:C	1:B:699:VAL:H	2.25	0.44
1:B:720:ARG:C	1:B:724:ARG:HH12	2.19	0.44
1:A:18:GLN:HB2	1:A:21:ALA:HB2	1.99	0.44
1:A:44:PHE:CD2	1:A:332:LYS:O	2.70	0.44
1:A:86:VAL:O	1:A:90:THR:HG23	2.18	0.44
1:A:104:ARG:NH1	1:A:104:ARG:CB	2.73	0.44
1:A:153:PHE:CE1	1:A:202:LEU:O	2.71	0.44
1:A:276:ARG:CZ	1:A:276:ARG:HB2	2.48	0.44
1:A:295:GLN:OE1	1:A:517:TYR:HB3	2.17	0.44
1:A:303:ARG:HD3	1:A:305:GLU:OE2	2.18	0.44
1:A:322:ILE:HG23	1:A:325:MET:H	1.83	0.44
1:A:374:THR:HA	1:A:620:ARG:NH1	2.33	0.44
1:A:413:PHE:HZ	1:A:639:TRP:CZ2	2.13	0.44
1:A:442:PRO:HD2	1:A:443:SER:H	1.76	0.44
1:A:509:VAL:HG23	1:A:510:ALA:N	2.33	0.44
1:A:532:TYR:CD1	1:A:533:ASN:OD1	2.70	0.44
1:A:586:GLU:O	1:A:586:GLU:HG2	2.16	0.44
1:A:612:LEU:O	1:A:614:LEU:N	2.50	0.44
1:A:647:LEU:N	1:A:647:LEU:HD12	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:698:ILE:HG12	1:A:702:MET:CE	2.44	0.44
1:B:35:GLN:CG	1:B:502:VAL:CG2	2.92	0.44
1:B:110:ILE:O	1:B:111:THR:OG1	2.35	0.44
1:B:361:TYR:N	1:B:441:PHE:CZ	2.83	0.44
1:B:614:LEU:CD1	1:B:614:LEU:C	2.85	0.44
1:B:614:LEU:HD12	1:B:615:GLY:N	2.20	0.44
1:B:647:LEU:HB3	1:B:667:ARG:HG3	1.97	0.44
1:B:697:ARG:O	1:B:701:GLN:N	2.45	0.44
1:A:3:ASN:HA	1:A:439:LEU:HD11	1.99	0.44
1:A:24:GLU:HA	1:A:26:LYS:CB	2.48	0.44
1:A:74:ALA:HB2	1:A:85:LEU:CD1	2.47	0.44
1:A:250:VAL:C	1:A:253:VAL:CG1	2.83	0.44
1:A:332:LYS:HD2	1:A:339:THR:HG21	2.00	0.44
1:A:345:GLN:CB	1:A:556:GLN:CA	2.86	0.44
1:A:359:VAL:CG1	1:A:438:THR:C	2.87	0.44
1:A:608:GLU:CG	1:A:609:PHE:N	2.80	0.44
1:B:92:TYR:HE2	1:B:146:PHE:HB2	1.79	0.44
1:B:118:ILE:N	1:B:222:PRO:CD	2.81	0.44
1:B:210:LEU:O	1:B:214:PHE:CD1	2.71	0.44
1:B:412:ALA:O	1:B:415:LYS:HD3	2.18	0.44
1:B:437:MET:CE	1:B:550:ALA:CB	2.96	0.44
1:B:482:SER:O	1:B:486:TYR:CD1	2.71	0.44
1:B:497:HIS:CD2	1:B:549:ILE:CG1	2.94	0.44
1:B:577:ILE:HD13	1:B:578:TRP:CE3	2.53	0.44
1:A:212:ALA:HB3	1:A:219:ALA:O	2.18	0.44
1:A:345:GLN:CA	1:A:360:VAL:CG1	2.86	0.44
1:A:566:LEU:CD1	1:A:568:LEU:HD12	2.46	0.44
1:A:583:ALA:CA	1:A:625:LYS:HZ1	2.26	0.44
1:A:712:SER:CB	1:A:713:ASP:HA	2.47	0.44
1:B:43:THR:HG21	1:B:289:ALA:N	2.31	0.44
1:B:140:PRO:C	1:B:141:SER:OG	2.60	0.44
1:B:232:ALA:C	1:B:239:ARG:HH21	2.25	0.44
1:B:239:ARG:CG	1:B:239:ARG:NH1	2.73	0.44
1:B:275:LEU:HA	1:B:278:THR:OG1	2.18	0.44
1:B:377:LYS:HB3	1:B:385:ARG:CD	2.45	0.44
1:B:417:ARG:CZ	1:B:639:TRP:CD1	2.98	0.44
1:B:471:LEU:HD11	1:B:479:LEU:HD13	1.99	0.44
1:B:636:TRP:O	1:B:640:PHE:CD2	2.70	0.44
1:B:708:ILE:CD1	1:B:708:ILE:C	2.90	0.44
1:A:4:LEU:HG	1:A:436:GLU:CB	2.47	0.44
1:A:8:ASP:OD1	1:A:12:SER:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:LEU:HA	1:A:501:VAL:HG21	1.99	0.44
1:A:80:LEU:HA	1:A:81:SER:HA	1.23	0.44
1:A:83:ASP:OD1	1:A:87:ASN:ND2	2.51	0.44
1:A:132:LEU:O	1:A:135:LEU:N	2.51	0.44
1:A:147:HIS:O	1:A:151:THR:HG21	2.12	0.44
1:A:209:MET:SD	1:A:210:LEU:HB2	2.58	0.44
1:A:248:ALA:HA	1:A:251:SER:OG	2.17	0.44
1:A:281:ILE:O	1:A:282:ASP:O	2.35	0.44
1:A:306:VAL:O	1:A:308:PHE:CD1	2.70	0.44
1:A:323:GLU:CD	1:A:323:GLU:C	2.86	0.44
1:A:365:GLN:CD	1:A:365:GLN:C	2.86	0.44
1:A:417:ARG:CB	1:A:639:TRP:CE3	2.97	0.44
1:A:448:ASP:CB	1:A:453:ARG:CB	2.79	0.44
1:A:461:ALA:C	1:A:465:GLY:H	2.26	0.44
1:A:501:VAL:CA	1:A:518:LEU:HD12	2.47	0.44
1:A:610:GLU:HG2	1:A:611:LEU:N	2.32	0.44
1:A:718:ILE:O	1:A:720:ARG:C	2.53	0.44
1:B:38:LEU:CD2	1:B:501:VAL:N	2.72	0.44
1:B:44:PHE:HB2	1:B:333:LEU:HD11	2.00	0.44
1:B:71:PHE:CD2	1:B:328:VAL:O	2.70	0.44
1:B:97:ALA:O	1:B:100:PRO:N	2.51	0.44
1:B:444:VAL:O	1:B:486:TYR:CZ	2.70	0.44
1:B:504:SER:O	1:B:517:TYR:CD1	2.70	0.44
1:B:522:VAL:HG23	1:B:540:ILE:HB	2.00	0.44
1:B:678:ILE:C	1:B:678:ILE:CD1	2.85	0.44
1:B:712:SER:HB3	1:B:715:HIS:CD2	2.52	0.44
1:B:726:TRP:CA	1:B:726:TRP:HE3	2.30	0.44
1:A:23:GLY:N	1:A:299:LYS:CD	2.80	0.43
1:A:491:MET:O	1:A:495:VAL:HG23	2.18	0.43
1:A:618:ARG:HB3	1:A:618:ARG:HH11	1.83	0.43
1:A:648:ALA:C	1:A:652:ARG:CZ	2.90	0.43
1:B:29:LEU:N	1:B:29:LEU:CD2	2.73	0.43
1:B:31:VAL:CG1	1:B:32:GLY:N	2.81	0.43
1:B:43:THR:OG1	1:B:287:ASN:HA	2.17	0.43
1:B:66:TYR:O	1:B:70:PHE:N	2.43	0.43
1:B:68:ARG:NH1	1:B:68:ARG:CG	2.73	0.43
1:B:102:ILE:CG2	1:B:138:LEU:HD13	2.47	0.43
1:B:104:ARG:C	1:B:104:ARG:HD3	2.42	0.43
1:B:176:ARG:NH2	1:B:447:ARG:CA	2.72	0.43
1:B:260:LEU:CD2	1:B:285:ARG:CB	2.93	0.43
1:B:294:TYR:CZ	1:B:298:VAL:HG21	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:309:SER:CA	1:B:314:SER:O	2.66	0.43
1:B:414:VAL:O	1:B:418:THR:N	2.51	0.43
1:B:427:ARG:H	1:B:428:GLY:HA3	1.78	0.43
1:B:493:TYR:O	1:B:493:TYR:HD1	1.99	0.43
1:B:522:VAL:CB	1:B:540:ILE:HD12	2.48	0.43
1:B:526:LEU:CB	1:B:527:ARG:NH1	2.69	0.43
1:B:619:GLU:HB3	1:B:620:ARG:HG3	1.97	0.43
1:B:668:MET:SD	1:B:668:MET:O	2.76	0.43
1:A:51:GLU:C	1:A:52:LEU:HB2	2.43	0.43
1:A:55:GLU:HA	1:A:170:TYR:C	2.42	0.43
1:A:143:HIS:C	1:A:145:LEU:HD11	2.43	0.43
1:A:176:ARG:NH2	1:A:446:GLU:HB3	2.31	0.43
1:A:187:VAL:HG11	1:A:247:ASN:HB3	1.99	0.43
1:A:232:ALA:C	1:A:235:THR:HB	2.42	0.43
1:A:250:VAL:O	1:A:252:SER:C	2.59	0.43
1:A:259:ARG:HD2	1:A:266:PRO:CB	2.48	0.43
1:A:345:GLN:CG	1:A:556:GLN:CA	2.96	0.43
1:A:346:THR:HB	1:A:358:VAL:HA	1.96	0.43
1:A:381:ASN:C	1:A:381:ASN:HD22	2.26	0.43
1:A:421:TYR:HD1	1:A:422:GLU:N	2.00	0.43
1:A:578:TRP:N	1:A:579:PRO:CD	2.81	0.43
1:A:667:ARG:HH11	1:A:667:ARG:HG3	1.83	0.43
1:B:68:ARG:NH1	1:B:328:VAL:C	2.72	0.43
1:B:183:PHE:O	1:B:186:LEU:HB2	2.18	0.43
1:B:363:ASP:CG	1:B:561:LEU:HD22	2.43	0.43
1:B:547:GLU:OE1	1:B:551:TYR:OH	2.34	0.43
1:A:55:GLU:CA	1:A:170:TYR:O	2.65	0.43
1:A:56:VAL:CG2	1:A:69:LEU:CD1	2.96	0.43
1:A:144:GLU:O	1:A:146:PHE:CD1	2.70	0.43
1:A:161:LEU:C	1:A:163:PHE:N	2.55	0.43
1:A:314:SER:CA	1:A:315:SER:HB3	2.48	0.43
1:A:334:ARG:CG	1:A:335:PRO:CD	2.91	0.43
1:A:343:ILE:HA	1:A:343:ILE:HD12	1.64	0.43
1:A:417:ARG:HG2	1:A:642:GLU:OE1	2.18	0.43
1:A:549:ILE:CD1	1:A:552:ASN:HD21	2.11	0.43
1:A:609:PHE:CD2	1:A:616:GLN:O	2.70	0.43
1:B:23:GLY:HA2	1:B:299:LYS:CE	2.48	0.43
1:B:42:ARG:HH12	1:B:339:THR:H	1.66	0.43
1:B:119:LYS:HB3	1:B:119:LYS:HE2	1.68	0.43
1:B:258:GLY:HA3	1:B:294:TYR:CZ	2.53	0.43
1:B:354:GLN:HE21	1:B:431:ASN:CG	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:384:GLN:CA	1:B:577:ILE:CG2	2.87	0.43
1:B:533:ASN:CB	1:B:535:ILE:HD12	2.48	0.43
1:A:82:VAL:C	1:A:85:LEU:H	2.21	0.43
1:A:144:GLU:CD	1:A:144:GLU:N	2.73	0.43
1:A:183:PHE:N	1:A:183:PHE:CD1	2.83	0.43
1:A:213:THR:CB	1:A:215:LYS:CD	2.86	0.43
1:A:334:ARG:NH1	1:A:334:ARG:CG	2.79	0.43
1:A:349:ILE:CD1	1:A:356:SER:N	2.72	0.43
1:A:556:GLN:HE21	1:A:556:GLN:CA	2.20	0.43
1:A:581:HIS:CE1	1:A:622:ARG:HH21	2.36	0.43
1:A:716:VAL:O	1:A:719:ASN:OD1	2.37	0.43
1:A:748:LYS:C	1:A:748:LYS:HZ2	2.13	0.43
1:B:77:GLY:O	1:B:78:GLY:C	2.59	0.43
1:B:102:ILE:HG23	1:B:138:LEU:HD13	1.99	0.43
1:B:259:ARG:HG3	1:B:269:LEU:CG	2.48	0.43
1:B:267:LYS:C	1:B:267:LYS:CD	2.91	0.43
1:B:439:LEU:N	1:B:439:LEU:HD23	2.34	0.43
1:B:467:VAL:CG2	1:B:468:ASP:N	2.81	0.43
1:B:596:THR:HG22	1:B:601:ARG:CD	2.48	0.43
1:B:668:MET:CA	1:B:671:ALA:H	2.31	0.43
1:A:31:VAL:N	1:A:506:HIS:CE1	2.78	0.43
1:A:34:LEU:HD11	1:A:35:GLN:CD	2.44	0.43
1:A:64:VAL:O	1:A:64:VAL:HG12	2.19	0.43
1:A:87:ASN:CG	1:A:191:ARG:CZ	2.90	0.43
1:A:210:LEU:CB	1:A:212:ALA:O	2.66	0.43
1:A:333:LEU:C	1:A:333:LEU:CD1	2.86	0.43
1:A:340:THR:HG1	1:A:341:SER:N	2.17	0.43
1:A:410:VAL:HG13	1:A:411:SER:CA	2.46	0.43
1:A:420:VAL:CG1	1:A:643:ASP:OD2	2.66	0.43
1:A:486:TYR:HD1	1:A:486:TYR:HA	1.72	0.43
1:B:46:ALA:H	1:B:179:THR:C	2.24	0.43
1:B:519:VAL:HG12	1:B:543:PRO:HA	1.96	0.43
1:B:578:TRP:CE2	1:B:580:TRP:HA	2.53	0.43
1:B:635:MET:HG2	1:B:635:MET:H	1.55	0.43
1:B:702:MET:SD	1:B:714:LEU:HG	2.58	0.43
1:A:5:LYS:O	1:A:8:ASP:N	2.51	0.43
1:A:14:ARG:HD2	1:A:14:ARG:C	2.43	0.43
1:A:419:ALA:C	1:A:421:TYR:HD1	2.24	0.43
1:A:420:VAL:CB	1:A:643:ASP:OD2	2.67	0.43
1:A:458:ALA:C	1:A:460:ALA:N	2.73	0.43
1:B:38:LEU:CD1	1:B:502:VAL:N	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:103:TRP:CZ2	1:B:230:ALA:C	2.96	0.43
1:B:124:GLY:O	1:B:128:PRO:HG3	2.18	0.43
1:B:173:ARG:NH2	1:B:578:TRP:CZ2	2.87	0.43
1:B:256:ILE:O	1:B:259:ARG:HB2	2.18	0.43
1:B:301:ARG:HD2	1:B:304:ALA:HB2	2.01	0.43
1:B:343:ILE:HD12	1:B:497:HIS:HE1	1.82	0.43
1:B:551:TYR:O	1:B:552:ASN:CG	2.60	0.43
1:B:578:TRP:NE1	1:B:580:TRP:HA	2.33	0.43
1:B:602:TYR:CA	1:B:701:GLN:NE2	2.80	0.43
1:B:630:HIS:CE1	1:B:634:GLN:CD	2.97	0.43
1:B:666:ARG:CG	1:B:669:GLN:NE2	2.81	0.43
1:B:732:LEU:CD2	1:B:732:LEU:C	2.85	0.43
1:A:82:VAL:O	1:A:85:LEU:CB	2.66	0.43
1:A:179:THR:O	1:A:332:LYS:HD3	2.18	0.43
1:A:187:VAL:HA	1:A:246:ALA:O	2.19	0.43
1:A:200:THR:O	1:A:203:SER:CA	2.67	0.43
1:A:213:THR:HG1	1:A:215:LYS:C	2.21	0.43
1:A:241:ARG:HG3	1:A:243:ASN:OD1	2.19	0.43
1:A:438:THR:N	1:A:439:LEU:HD22	2.34	0.43
1:A:459:ILE:O	1:A:462:LEU:CA	2.67	0.43
1:A:498:ASN:CG	1:A:522:VAL:HG12	2.43	0.43
1:A:528:ILE:HD13	1:A:528:ILE:O	2.18	0.43
1:A:605:GLU:CB	1:A:607:LYS:NZ	2.81	0.43
1:A:639:TRP:CD1	1:A:642:GLU:HB2	2.54	0.43
1:B:46:ALA:CB	1:B:179:THR:C	2.85	0.43
1:B:111:THR:C	1:B:113:SER:N	2.74	0.43
1:B:117:ALA:HA	1:B:222:PRO:HG3	2.01	0.43
1:B:192:ALA:HB1	1:B:328:VAL:HG21	2.01	0.43
1:B:200:THR:HA	1:B:203:SER:OG	2.18	0.43
1:B:202:LEU:CD1	1:B:236:ALA:CB	2.85	0.43
1:B:384:GLN:HA	1:B:577:ILE:HG21	1.94	0.43
1:B:712:SER:OG	1:B:714:LEU:CB	2.66	0.43
1:A:62:ASP:CG	1:A:65:MET:N	2.71	0.43
1:A:64:VAL:HG22	1:A:200:THR:CB	2.48	0.43
1:A:92:TYR:CZ	1:A:146:PHE:HB2	2.54	0.43
1:A:120:ALA:C	1:A:121:ASP:O	2.58	0.43
1:A:169:ALA:HB3	1:A:575:ILE:HB	2.00	0.43
1:A:306:VAL:C	1:A:307:ILE:CG1	2.85	0.43
1:A:343:ILE:O	1:A:362:GLU:HG3	2.19	0.43
1:A:359:VAL:CA	1:A:438:THR:C	2.91	0.43
1:A:359:VAL:CG2	1:A:437:MET:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:PRO:C	1:A:458:ALA:H	2.27	0.43
1:A:502:VAL:CA	1:A:503:VAL:HB	2.47	0.43
1:A:637:TYR:O	1:A:638:SER:C	2.61	0.43
1:A:718:ILE:CA	1:A:721:HIS:H	2.30	0.43
1:B:118:ILE:O	1:B:222:PRO:CG	2.67	0.43
1:B:183:PHE:O	1:B:184:TYR:C	2.55	0.43
1:B:213:THR:C	1:B:220:LEU:HD22	2.44	0.43
1:B:401:LEU:C	1:B:404:ILE:CG1	2.89	0.43
1:B:509:VAL:O	1:B:510:ALA:C	2.59	0.43
1:B:527:ARG:NH1	1:B:527:ARG:N	2.67	0.43
1:B:716:VAL:HG12	1:B:717:GLY:H	1.84	0.43
1:B:738:LEU:CD2	1:B:738:LEU:N	2.81	0.43
1:A:2:PHE:CZ	1:A:486:TYR:OH	2.70	0.43
1:A:3:ASN:HB3	1:A:4:LEU:H	1.71	0.43
1:A:126:VAL:CG2	1:A:165:LEU:CA	2.93	0.43
1:A:182:ASN:OD1	1:A:183:PHE:CD1	2.71	0.43
1:A:342:TYR:CD1	1:A:362:GLU:OE1	2.70	0.43
1:A:345:GLN:HA	1:A:345:GLN:NE2	2.34	0.43
1:A:352:MET:H	1:A:352:MET:HG2	1.58	0.43
1:A:397:MET:HE1	1:A:623:ILE:HG21	2.01	0.43
1:A:475:ALA:C	1:A:477:ASN:N	2.72	0.43
1:A:636:TRP:HZ3	1:A:640:PHE:CD2	2.11	0.43
1:B:66:TYR:CD1	1:B:66:TYR:N	2.84	0.43
1:B:282:ASP:CB	1:B:285:ARG:NH2	2.80	0.43
1:B:361:TYR:O	1:B:440:GLY:O	2.37	0.43
1:B:537:GLY:C	1:B:539:SER:H	2.27	0.43
1:A:3:ASN:C	1:A:436:GLU:HB2	2.40	0.43
1:A:38:LEU:H	1:A:518:LEU:HD11	1.83	0.43
1:A:40:PHE:CE2	1:A:291:PHE:HB3	2.50	0.43
1:A:61:ILE:HB	1:A:156:HIS:HD2	1.62	0.43
1:A:99:ASN:ND2	1:A:102:ILE:HG13	2.34	0.43
1:A:213:THR:HG1	1:A:215:LYS:HZ3	1.59	0.43
1:A:343:ILE:CA	1:A:362:GLU:OE1	2.66	0.43
1:A:363:ASP:O	1:A:364:TRP:CE2	2.72	0.43
1:A:439:LEU:CA	1:A:441:PHE:CE1	3.02	0.43
1:A:520:TRP:CE3	1:A:545:PRO:CD	3.02	0.43
1:A:583:ALA:CA	1:A:625:LYS:NZ	2.81	0.43
1:A:597:ILE:HD13	1:A:598:ARG:CD	2.37	0.43
1:A:653:THR:CG2	1:A:655:ARG:CD	2.96	0.43
1:A:738:LEU:HB3	1:A:742:GLU:HG2	1.63	0.43
1:B:71:PHE:HD1	1:B:71:PHE:O	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:ASP:HB2	1:B:188:ASP:OD1	2.19	0.43
1:B:128:PRO:O	1:B:131:ILE:HG22	2.18	0.43
1:B:173:ARG:HH12	1:B:578:TRP:HZ2	1.67	0.43
1:B:176:ARG:NH1	1:B:446:GLU:CG	2.73	0.43
1:B:183:PHE:C	1:B:185:ALA:N	2.75	0.43
1:B:199:LEU:O	1:B:202:LEU:HB3	2.08	0.43
1:B:257:LEU:CD2	1:B:290:LEU:C	2.91	0.43
1:B:341:SER:O	1:B:342:TYR:HB3	2.17	0.43
1:B:600:LYS:O	1:B:602:TYR:CE1	2.71	0.43
1:B:703:ALA:N	1:B:708:ILE:HD13	2.34	0.43
1:B:715:HIS:CB	1:B:720:ARG:NH2	2.82	0.43
1:A:3:ASN:ND2	1:A:439:LEU:CD1	2.73	0.42
1:A:81:SER:OG	1:A:82:VAL:HG23	2.19	0.42
1:A:161:LEU:HB2	1:A:208:LYS:NZ	2.33	0.42
1:A:294:TYR:OH	1:A:516:LEU:CG	2.66	0.42
1:A:402:ALA:HB3	1:A:403:PRO:CD	2.49	0.42
1:A:490:VAL:HG23	1:A:491:MET:CG	2.49	0.42
1:A:553:LYS:HG3	1:A:554:PRO:N	2.34	0.42
1:A:639:TRP:HD1	1:A:642:GLU:HB2	1.84	0.42
1:B:8:ASP:OD1	1:B:9:LEU:O	2.35	0.42
1:B:41:THR:O	1:B:336:ILE:HG22	2.19	0.42
1:B:75:GLN:CD	1:B:177:THR:CG2	2.91	0.42
1:B:159:SER:OG	1:B:163:PHE:CD1	2.72	0.42
1:B:257:LEU:HD21	1:B:291:PHE:CA	2.49	0.42
1:B:401:LEU:HD23	1:B:404:ILE:HD11	1.98	0.42
1:B:437:MET:HE2	1:B:550:ALA:CB	2.48	0.42
1:B:712:SER:OG	1:B:715:HIS:CG	2.70	0.42
1:B:740:ARG:C	1:B:742:GLU:N	2.72	0.42
1:A:20:PHE:HD1	1:A:20:PHE:C	2.26	0.42
1:A:176:ARG:HD2	1:A:446:GLU:OE2	2.19	0.42
1:A:505:GLU:HA	1:A:516:LEU:CB	2.49	0.42
1:A:528:ILE:HB	1:A:530:VAL:HG12	2.00	0.42
1:A:544:GLU:OE1	1:A:546:LEU:CA	2.66	0.42
1:A:598:ARG:O	1:A:599:ASN:CB	2.64	0.42
1:A:611:LEU:HD12	1:A:611:LEU:HA	1.81	0.42
1:A:653:THR:O	1:A:655:ARG:NE	2.51	0.42
1:A:690:ALA:O	1:A:691:VAL:C	2.63	0.42
1:B:14:ARG:CZ	1:B:14:ARG:HB3	2.48	0.42
1:B:70:PHE:CA	1:B:85:LEU:CD1	2.90	0.42
1:B:105:LYS:HA	1:B:105:LYS:HZ2	1.84	0.42
1:B:119:LYS:HZ2	1:B:218:GLY:N	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:234:THR:O	1:B:235:THR:C	2.62	0.42
1:B:252:SER:C	1:B:255:THR:HG1	2.14	0.42
1:B:317:ILE:CB	1:B:320:TRP:CE2	3.02	0.42
1:B:650:ALA:C	1:B:653:THR:OG1	2.59	0.42
1:B:673:THR:HA	1:B:677:LYS:HZ2	1.84	0.42
1:A:23:GLY:C	1:A:26:LYS:HE2	2.45	0.42
1:A:49:THR:C	1:A:51:GLU:N	2.77	0.42
1:A:143:HIS:O	1:A:144:GLU:C	2.57	0.42
1:A:179:THR:O	1:A:332:LYS:CD	2.66	0.42
1:A:241:ARG:HD2	1:A:243:ASN:H	1.84	0.42
1:A:298:VAL:CG2	1:A:514:GLY:O	2.67	0.42
1:A:337:ASN:O	1:A:340:THR:N	2.53	0.42
1:B:41:THR:O	1:B:42:ARG:NE	2.53	0.42
1:B:102:ILE:HG12	1:B:135:LEU:HD21	2.01	0.42
1:B:119:LYS:HB2	1:B:219:ALA:CB	2.35	0.42
1:B:228:HIS:O	1:B:230:ALA:N	2.53	0.42
1:B:244:PHE:CD1	1:B:318:ILE:HG23	2.51	0.42
1:B:246:ALA:O	1:B:247:ASN:C	2.60	0.42
1:B:408:PHE:HA	1:B:413:PHE:HE2	1.83	0.42
1:B:504:SER:N	1:B:517:TYR:H	2.16	0.42
1:B:618:ARG:HH22	1:B:620:ARG:N	2.17	0.42
1:B:628:VAL:O	1:B:632:ILE:N	2.52	0.42
1:A:154:VAL:O	1:A:158:LEU:CB	2.67	0.42
1:A:221:ALA:O	1:A:222:PRO:O	2.37	0.42
1:A:265:THR:CB	1:A:267:LYS:N	2.74	0.42
1:A:309:SER:O	1:A:313:LEU:HB2	2.19	0.42
1:A:439:LEU:HA	1:A:441:PHE:CE1	2.55	0.42
1:A:508:GLY:C	1:A:510:ALA:O	2.63	0.42
1:A:753:SER:N	1:A:754:ASN:CA	2.82	0.42
1:B:132:LEU:HD13	1:B:151:THR:N	2.34	0.42
1:B:160:PRO:HG2	1:B:161:LEU:H	1.83	0.42
1:B:449:TYR:HB2	1:B:634:GLN:OE1	2.16	0.42
1:B:604:ALA:O	1:B:605:GLU:HB3	2.19	0.42
1:B:639:TRP:CD1	1:B:639:TRP:O	2.72	0.42
1:B:661:LEU:C	1:B:661:LEU:CD2	2.86	0.42
1:A:16:LEU:CG	1:A:462:LEU:O	2.66	0.42
1:A:119:LYS:C	1:A:219:ALA:N	2.76	0.42
1:A:193:SER:HA	1:A:196:ARG:CG	2.49	0.42
1:A:345:GLN:CA	1:A:360:VAL:HB	2.49	0.42
1:A:448:ASP:HB2	1:A:455:PRO:CB	2.49	0.42
1:A:476:SER:O	1:A:480:LYS:N	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:VAL:C	1:A:519:VAL:HG12	2.44	0.42
1:A:533:ASN:N	1:A:533:ASN:OD1	2.33	0.42
1:B:92:TYR:CD2	1:B:146:PHE:HB2	2.54	0.42
1:B:127:PRO:C	1:B:131:ILE:N	2.60	0.42
1:B:253:VAL:HA	1:B:256:ILE:HG22	2.02	0.42
1:B:275:LEU:CD2	1:B:278:THR:CB	2.91	0.42
1:B:491:MET:O	1:B:494:ALA:N	2.52	0.42
1:B:492:HIS:CB	1:B:495:VAL:HB	2.49	0.42
1:B:656:ASP:OD2	1:B:658:ALA:HB3	2.20	0.42
1:B:691:VAL:HG11	1:B:724:ARG:NH2	2.34	0.42
1:B:702:MET:O	1:B:708:ILE:HD13	2.20	0.42
1:A:54:TRP:CE3	1:A:54:TRP:N	2.88	0.42
1:A:272:SER:C	1:A:275:LEU:CB	2.86	0.42
1:A:347:SER:HB2	1:A:554:PRO:CB	2.43	0.42
1:A:457:VAL:HG13	1:A:458:ALA:N	2.34	0.42
1:A:612:LEU:N	1:A:612:LEU:HD22	2.34	0.42
1:B:214:PHE:O	1:B:214:PHE:CG	2.71	0.42
1:B:314:SER:CA	1:B:316:THR:N	2.73	0.42
1:B:360:VAL:HG22	1:B:439:LEU:N	2.35	0.42
1:B:401:LEU:CG	1:B:404:ILE:HD12	2.47	0.42
1:B:456:MET:N	1:B:459:ILE:HD12	2.34	0.42
1:B:504:SER:HB2	1:B:517:TYR:O	2.20	0.42
1:A:26:LYS:HD3	1:A:26:LYS:HA	1.67	0.42
1:A:39:GLN:N	1:A:501:VAL:HG11	2.35	0.42
1:A:105:LYS:O	1:A:109:TYR:HB2	2.19	0.42
1:A:131:ILE:HG22	1:A:135:LEU:CG	2.49	0.42
1:A:157:VAL:O	1:A:157:VAL:HG12	2.18	0.42
1:A:303:ARG:NH1	1:A:513:GLN:CB	2.83	0.42
1:A:313:LEU:HD13	1:A:313:LEU:N	2.33	0.42
1:A:384:GLN:OE1	1:A:578:TRP:CZ2	2.72	0.42
1:A:470:SER:O	1:A:470:SER:OG	2.31	0.42
1:A:476:SER:HA	1:A:479:LEU:H	1.83	0.42
1:A:493:TYR:CZ	1:A:549:ILE:HB	2.54	0.42
1:A:541:ARG:CD	1:A:543:PRO:CD	2.98	0.42
1:A:553:LYS:HD3	1:A:554:PRO:HD2	2.00	0.42
1:B:18:GLN:O	1:B:19:ALA:C	2.63	0.42
1:B:42:ARG:NH1	1:B:42:ARG:CB	2.82	0.42
1:B:288:LEU:CD2	1:B:495:VAL:CG2	2.83	0.42
1:B:510:ALA:CB	1:B:511:ALA:CA	2.89	0.42
1:B:532:TYR:N	1:B:532:TYR:HD1	2.17	0.42
1:B:560:VAL:C	1:B:561:LEU:CD2	2.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:645:ARG:HG3	1:B:646:THR:N	2.34	0.42
1:B:661:LEU:HD23	1:B:662:ALA:HA	2.01	0.42
1:B:703:ALA:HA	1:B:709:ASP:HA	2.01	0.42
1:A:6:VAL:C	1:A:9:LEU:HD13	2.42	0.42
1:A:37:PRO:HB3	1:A:501:VAL:HG23	1.94	0.42
1:A:170:TYR:CA	1:A:576:HIS:HE1	2.29	0.42
1:A:245:ASP:N	1:A:249:VAL:HG13	2.23	0.42
1:A:322:ILE:HG23	1:A:325:MET:HB2	2.02	0.42
1:A:361:TYR:O	1:A:362:GLU:HG3	2.18	0.42
1:A:374:THR:HG22	1:A:620:ARG:NH2	2.35	0.42
1:A:476:SER:CA	1:A:479:LEU:HD13	2.31	0.42
1:A:540:ILE:CG1	1:A:551:TYR:CZ	2.92	0.42
1:A:557:PRO:HB2	1:A:558:SER:C	2.37	0.42
1:B:24:GLU:HB2	1:B:506:HIS:CD2	2.55	0.42
1:B:102:ILE:CG2	1:B:135:LEU:HD11	2.50	0.42
1:B:211:GLN:HA	1:B:214:PHE:CE1	2.53	0.42
1:B:365:GLN:N	1:B:561:LEU:O	2.53	0.42
1:B:415:LYS:O	1:B:419:ALA:N	2.53	0.42
1:B:530:VAL:CG2	1:B:533:ASN:O	2.67	0.42
1:A:38:LEU:H	1:A:518:LEU:CD1	2.33	0.42
1:A:45:SER:O	1:A:332:LYS:CD	2.68	0.42
1:A:73:TYR:O	1:A:77:GLY:CA	2.67	0.42
1:A:106:LEU:CG	1:A:135:LEU:CD2	2.96	0.42
1:A:144:GLU:C	1:A:145:LEU:HD12	2.44	0.42
1:A:245:ASP:HB2	1:A:249:VAL:CA	2.50	0.42
1:A:361:TYR:O	1:A:362:GLU:OE1	2.37	0.42
1:A:485:ASN:HD22	1:A:485:ASN:HA	1.69	0.42
1:A:520:TRP:O	1:A:542:THR:HG22	2.19	0.42
1:A:527:ARG:NH2	1:A:528:ILE:O	2.52	0.42
1:A:541:ARG:CZ	1:A:542:THR:OG1	2.67	0.42
1:A:610:GLU:O	1:A:613:GLY:CA	2.67	0.42
1:A:714:LEU:O	1:A:720:ARG:NE	2.52	0.42
1:A:748:LYS:NZ	1:A:748:LYS:C	2.75	0.42
1:B:18:GLN:O	1:B:21:ALA:N	2.52	0.42
1:B:104:ARG:O	1:B:108:ALA:CB	2.68	0.42
1:B:129:THR:HA	1:B:151:THR:HG21	1.97	0.42
1:B:176:ARG:HH21	1:B:447:ARG:HA	1.75	0.42
1:B:283:GLN:OE1	1:B:284:LEU:N	2.50	0.42
1:B:321:PHE:HD1	1:B:325:MET:CE	2.16	0.42
1:B:322:ILE:HD12	1:B:322:ILE:HA	1.90	0.42
1:B:388:ASP:O	1:B:390:GLU:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:455:PRO:C	1:B:459:ILE:CD1	2.93	0.42
1:B:497:HIS:HD2	1:B:549:ILE:CG1	2.32	0.42
1:B:605:GLU:OE1	1:B:605:GLU:HA	2.19	0.42
1:B:633:ILE:HD13	1:B:633:ILE:HA	1.75	0.42
1:B:646:THR:OG1	1:B:647:LEU:N	2.53	0.42
1:B:733:GLN:OE1	1:B:740:ARG:N	2.53	0.42
1:A:31:VAL:CG1	1:A:32:GLY:N	2.51	0.42
1:A:146:PHE:O	1:A:150:THR:OG1	2.35	0.42
1:A:169:ALA:O	1:A:576:HIS:CE1	2.72	0.42
1:A:222:PRO:N	1:A:224:LEU:H	1.79	0.42
1:A:241:ARG:HD2	1:A:243:ASN:OD1	2.19	0.42
1:A:342:TYR:CA	1:A:362:GLU:OE2	2.68	0.42
1:A:393:ILE:CG2	1:A:612:LEU:HD11	2.28	0.42
1:A:527:ARG:HA	1:A:527:ARG:HD2	1.88	0.42
1:A:585:THR:HG23	1:A:622:ARG:NH1	2.35	0.42
1:A:686:ILE:O	1:A:687:GLY:C	2.63	0.42
1:B:3:ASN:N	1:B:3:ASN:OD1	2.46	0.42
1:B:66:TYR:O	1:B:68:ARG:N	2.53	0.42
1:B:110:ILE:C	1:B:111:THR:CG2	2.85	0.42
1:B:123:VAL:N	1:B:163:PHE:CD2	2.88	0.42
1:B:125:LYS:CA	1:B:165:LEU:HD22	2.50	0.42
1:B:190:VAL:CG2	1:B:246:ALA:HB1	2.50	0.42
1:B:263:PRO:HD3	1:B:503:VAL:CG1	2.50	0.42
1:B:288:LEU:CD1	1:B:495:VAL:HG22	2.49	0.42
1:B:318:ILE:H	1:B:318:ILE:HD12	1.81	0.42
1:B:408:PHE:CG	1:B:413:PHE:HE2	2.27	0.42
1:B:466:ILE:HD12	1:B:466:ILE:HA	1.79	0.42
1:B:586:GLU:HA	1:B:621:VAL:O	2.20	0.42
1:B:600:LYS:HZ1	1:B:708:ILE:HG23	1.84	0.42
1:A:61:ILE:HG23	1:A:62:ASP:H	1.81	0.41
1:A:200:THR:O	1:A:203:SER:N	2.53	0.41
1:A:342:TYR:HB2	1:A:362:GLU:OE2	2.20	0.41
1:A:348:ALA:C	1:A:349:ILE:O	2.62	0.41
1:A:355:PRO:C	1:A:356:SER:HG	2.09	0.41
1:A:359:VAL:HA	1:A:438:THR:OG1	2.19	0.41
1:A:415:LYS:O	1:A:418:THR:OG1	2.38	0.41
1:A:459:ILE:C	1:A:462:LEU:H	2.27	0.41
1:A:542:THR:C	1:A:544:GLU:H	2.28	0.41
1:A:736:GLY:C	1:A:737:LEU:HD22	2.42	0.41
1:B:82:VAL:HG21	1:B:188:ASP:HB3	2.01	0.41
1:B:236:ALA:CA	1:B:239:ARG:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:ASN:HD22	1:B:244:PHE:N	2.17	0.41
1:B:317:ILE:O	1:B:320:TRP:CB	2.68	0.41
1:B:376:VAL:CB	1:B:386:PHE:N	2.69	0.41
1:B:471:LEU:CB	1:B:476:SER:OG	2.68	0.41
1:B:568:LEU:O	1:B:571:HIS:CA	2.68	0.41
1:B:568:LEU:HD13	1:B:572:THR:OG1	1.97	0.41
1:B:694:ALA:CB	1:B:726:TRP:CD1	3.03	0.41
1:A:61:ILE:HG12	1:A:66:TYR:CZ	2.53	0.41
1:A:132:LEU:HD11	1:A:148:HIS:CD2	2.55	0.41
1:A:183:PHE:O	1:A:184:TYR:C	2.63	0.41
1:A:198:MET:C	1:A:201:ALA:HB3	2.45	0.41
1:A:233:ALA:O	1:A:236:ALA:C	2.62	0.41
1:A:254:LEU:HA	1:A:257:LEU:HD12	2.01	0.41
1:A:267:LYS:HB2	1:A:268:GLU:H	1.62	0.41
1:A:342:TYR:C	1:A:362:GLU:OE2	2.63	0.41
1:A:374:THR:HB	1:A:620:ARG:NH1	2.33	0.41
1:A:459:ILE:C	1:A:462:LEU:N	2.77	0.41
1:A:498:ASN:ND2	1:A:500:GLU:CD	2.73	0.41
1:A:525:GLU:C	1:A:526:LEU:HD23	2.45	0.41
1:A:758:MET:SD	1:A:760:VAL:O	2.78	0.41
1:B:6:VAL:CG1	1:B:7:LYS:H	2.33	0.41
1:B:42:ARG:HA	1:B:43:THR:HB	2.02	0.41
1:B:66:TYR:C	1:B:68:ARG:N	2.73	0.41
1:B:107:THR:O	1:B:110:ILE:CB	2.67	0.41
1:B:178:ALA:HB2	1:B:447:ARG:NE	2.35	0.41
1:B:187:VAL:CG1	1:B:247:ASN:HA	2.47	0.41
1:B:192:ALA:HB3	1:B:328:VAL:HG21	2.00	0.41
1:B:226:SER:C	1:B:229:LEU:CB	2.81	0.41
1:B:233:ALA:HA	1:B:236:ALA:CB	2.43	0.41
1:B:551:TYR:C	1:B:552:ASN:CG	2.76	0.41
1:B:697:ARG:CZ	1:B:697:ARG:HB2	2.49	0.41
1:B:705:ARG:CB	1:B:708:ILE:CG1	2.84	0.41
1:B:718:ILE:O	1:B:719:ASN:C	2.60	0.41
1:A:144:GLU:OE1	1:A:144:GLU:N	2.53	0.41
1:A:148:HIS:CE1	1:A:578:TRP:CZ3	3.02	0.41
1:A:157:VAL:HB	1:A:158:LEU:HD12	2.02	0.41
1:A:294:TYR:OH	1:A:516:LEU:HD23	2.20	0.41
1:A:345:GLN:CB	1:A:556:GLN:HE21	2.18	0.41
1:A:422:GLU:CG	1:B:116:ARG:HG3	2.48	0.41
1:A:503:VAL:CG1	1:A:504:SER:N	2.79	0.41
1:B:23:GLY:CA	1:B:299:LYS:CE	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:163:PHE:CB	1:B:164:ILE:CB	2.94	0.41
1:B:272:SER:O	1:B:276:ARG:CB	2.67	0.41
1:B:394:SER:HA	1:B:397:MET:CE	2.42	0.41
1:B:461:ALA:HB2	1:B:468:ASP:HB2	2.03	0.41
1:B:504:SER:H	1:B:517:TYR:N	2.17	0.41
1:B:612:LEU:HD23	1:B:612:LEU:HA	1.90	0.41
1:A:180:TYR:CG	1:A:331:PHE:HA	2.55	0.41
1:A:294:TYR:CZ	1:A:516:LEU:N	2.88	0.41
1:A:294:TYR:O	1:A:298:VAL:HG12	2.20	0.41
1:A:334:ARG:HD3	1:A:335:PRO:HD2	2.00	0.41
1:A:427:ARG:C	1:A:429:THR:HA	2.43	0.41
1:A:431:ASN:OD1	1:A:431:ASN:N	2.51	0.41
1:A:507:GLN:CD	1:A:507:GLN:H	2.28	0.41
1:A:523:ARG:CZ	1:A:524:THR:O	2.61	0.41
1:A:537:GLY:O	1:A:539:SER:N	2.45	0.41
1:A:547:GLU:C	1:A:550:ALA:N	2.73	0.41
1:B:42:ARG:HE	1:B:335:PRO:C	2.25	0.41
1:B:87:ASN:HD22	1:B:88:GLN:H	1.67	0.41
1:B:105:LYS:HD2	1:B:105:LYS:H	1.85	0.41
1:B:122:ALA:O	1:B:164:ILE:CB	2.69	0.41
1:B:282:ASP:HB2	1:B:285:ARG:CZ	2.49	0.41
1:B:288:LEU:C	1:B:292:ILE:CD1	2.93	0.41
1:B:477:ASN:O	1:B:481:ARG:HG3	2.20	0.41
1:B:721:HIS:CD2	1:B:757:GLY:HA2	2.41	0.41
1:B:754:ASN:C	1:B:756:LEU:H	2.18	0.41
1:A:180:TYR:CE2	1:A:185:ALA:HB1	2.56	0.41
1:A:265:THR:CG2	1:A:267:LYS:CG	2.85	0.41
1:A:278:THR:CB	1:A:281:ILE:HG23	2.51	0.41
1:A:303:ARG:HA	1:A:303:ARG:NE	2.32	0.41
1:A:342:TYR:CB	1:A:362:GLU:OE2	2.68	0.41
1:A:535:ILE:CD1	1:A:539:SER:O	2.69	0.41
1:A:743:ALA:O	1:A:746:LEU:CB	2.68	0.41
1:B:56:VAL:CB	1:B:148:HIS:NE2	2.73	0.41
1:B:235:THR:CB	1:B:239:ARG:HH22	2.29	0.41
1:B:316:THR:HB	1:B:317:ILE:HG13	2.02	0.41
1:B:363:ASP:N	1:B:441:PHE:HD2	2.18	0.41
1:B:373:PHE:O	1:B:621:VAL:HG12	2.20	0.41
1:B:389:VAL:C	1:B:390:GLU:HG2	2.46	0.41
1:B:668:MET:HB3	1:B:668:MET:HE3	1.63	0.41
1:B:702:MET:SD	1:B:711:SER:O	2.78	0.41
1:B:719:ASN:HD21	1:B:720:ARG:CZ	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:37:PRO:O	1:A:37:PRO:HD2	2.21	0.41
1:A:42:ARG:HH11	1:A:42:ARG:CG	2.34	0.41
1:A:64:VAL:CG1	1:A:196:ARG:NE	2.83	0.41
1:A:128:PRO:CA	1:A:129:THR:CB	2.98	0.41
1:A:201:ALA:O	1:A:202:LEU:C	2.62	0.41
1:A:303:ARG:HD3	1:A:304:ALA:C	2.44	0.41
1:A:402:ALA:C	1:A:405:GLY:H	2.28	0.41
1:A:610:GLU:O	1:A:611:LEU:C	2.60	0.41
1:A:611:LEU:HD11	1:A:690:ALA:N	2.36	0.41
1:A:677:LYS:HG3	1:A:677:LYS:H	1.63	0.41
1:B:69:LEU:O	1:B:72:GLN:N	2.53	0.41
1:B:74:ALA:CB	1:B:82:VAL:HG22	2.51	0.41
1:B:187:VAL:HA	1:B:190:VAL:CG2	2.51	0.41
1:B:190:VAL:HB	1:B:246:ALA:HB1	2.01	0.41
1:B:192:ALA:CB	1:B:328:VAL:CG2	2.98	0.41
1:B:234:THR:O	1:B:237:PHE:HB3	2.21	0.41
1:B:361:TYR:CB	1:B:414:VAL:HB	2.49	0.41
1:B:373:PHE:CB	1:B:622:ARG:O	2.68	0.41
1:B:593:TYR:HB3	1:B:726:TRP:CE2	2.56	0.41
1:A:18:GLN:CA	1:A:21:ALA:H	2.33	0.41
1:A:309:SER:O	1:A:310:ASP:CB	2.69	0.41
1:A:315:SER:HB3	1:A:318:ILE:HB	2.00	0.41
1:A:364:TRP:CE3	1:A:562:GLN:HA	2.53	0.41
1:A:377:LYS:HE2	1:A:378:LEU:CA	2.50	0.41
1:A:401:LEU:HA	1:A:404:ILE:HG12	2.03	0.41
1:A:498:ASN:HD22	1:A:500:GLU:HB2	1.85	0.41
1:A:505:GLU:HB2	1:A:516:LEU:HB3	2.02	0.41
1:A:523:ARG:N	1:A:539:SER:HB2	2.36	0.41
1:A:605:GLU:HB2	1:A:607:LYS:HZ2	1.86	0.41
1:A:619:GLU:H	1:A:619:GLU:HG3	1.63	0.41
1:B:103:TRP:CD1	1:B:230:ALA:HB3	2.54	0.41
1:B:114:SER:OG	1:B:222:PRO:CB	2.68	0.41
1:B:183:PHE:N	1:B:186:LEU:CD1	2.77	0.41
1:B:205:VAL:O	1:B:209:MET:HB2	2.20	0.41
1:B:471:LEU:C	1:B:476:SER:OG	2.64	0.41
1:B:545:PRO:C	1:B:547:GLU:N	2.72	0.41
1:B:600:LYS:NZ	1:B:708:ILE:HG23	2.35	0.41
1:B:606:VAL:HG21	1:B:693:LEU:HD23	2.01	0.41
1:B:696:SER:HA	1:B:699:VAL:HB	2.01	0.41
1:B:705:ARG:H	1:B:708:ILE:HG12	1.84	0.41
1:A:24:GLU:HG3	1:A:26:LYS:HB2	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:GLN:OE1	1:A:264:SER:HA	2.19	0.41
1:A:64:VAL:HG13	1:A:196:ARG:CA	2.47	0.41
1:A:145:LEU:N	1:A:147:HIS:H	2.19	0.41
1:A:205:VAL:O	1:A:206:ASP:CB	2.69	0.41
1:A:365:GLN:HE21	1:A:367:ALA:N	2.19	0.41
1:A:402:ALA:CB	1:A:403:PRO:HD3	2.50	0.41
1:A:503:VAL:CG1	1:A:517:TYR:O	2.68	0.41
1:A:517:TYR:C	1:A:517:TYR:CD1	2.99	0.41
1:A:581:HIS:HE1	1:A:584:SER:O	2.03	0.41
1:A:606:VAL:HG22	1:A:610:GLU:CD	2.44	0.41
1:A:639:TRP:C	1:A:641:VAL:H	2.26	0.41
1:A:644:ASP:CG	1:A:645:ARG:NH1	2.72	0.41
1:A:676:ARG:O	1:A:679:GLU:CB	2.68	0.41
1:A:735:MET:SD	1:A:735:MET:C	2.91	0.41
1:B:152:ASP:CG	1:B:153:PHE:N	2.72	0.41
1:B:160:PRO:HG2	1:B:161:LEU:N	2.35	0.41
1:B:195:LEU:HD23	1:B:199:LEU:CD1	2.47	0.41
1:B:234:THR:O	1:B:238:GLU:N	2.48	0.41
1:B:255:THR:OG1	1:B:256:ILE:N	2.52	0.41
1:B:322:ILE:O	1:B:325:MET:SD	2.79	0.41
1:B:350:ASP:HB3	1:B:430:VAL:CG2	2.50	0.41
1:B:423:ALA:C	1:B:424:VAL:HG23	2.46	0.41
1:B:451:LEU:CB	1:B:453:ARG:NE	2.84	0.41
1:B:552:ASN:N	1:B:553:LYS:NZ	2.69	0.41
1:B:678:ILE:CG1	1:B:679:GLU:N	2.83	0.41
1:A:51:GLU:HG2	1:A:564:LYS:HG3	2.02	0.41
1:A:128:PRO:HD3	1:A:166:PRO:CA	2.51	0.41
1:A:159:SER:CA	1:A:164:ILE:HA	2.47	0.41
1:A:237:PHE:C	1:A:240:SER:HG	2.19	0.41
1:A:259:ARG:C	1:A:262:SER:OG	2.58	0.41
1:A:294:TYR:CE1	1:A:515:SER:N	2.89	0.41
1:A:309:SER:O	1:A:318:ILE:HG13	2.21	0.41
1:A:342:TYR:O	1:A:342:TYR:CG	2.74	0.41
1:A:345:GLN:CD	1:A:554:PRO:HA	2.46	0.41
1:A:348:ALA:N	1:A:358:VAL:HG22	2.35	0.41
1:A:349:ILE:CG1	1:A:353:GLY:O	2.69	0.41
1:A:350:ASP:O	1:A:352:MET:N	2.48	0.41
1:A:451:LEU:O	1:A:452:ASP:HB2	2.21	0.41
1:A:455:PRO:O	1:A:458:ALA:N	2.54	0.41
1:A:471:LEU:HD12	1:A:477:ASN:N	2.31	0.41
1:A:506:HIS:O	1:A:507:GLN:C	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:TRP:CE3	1:A:542:THR:O	2.74	0.41
1:A:600:LYS:NZ	1:A:602:TYR:OH	2.45	0.41
1:A:714:LEU:O	1:A:720:ARG:CZ	2.69	0.41
1:A:737:LEU:O	1:A:738:LEU:HD23	2.21	0.41
1:B:6:VAL:HG22	1:B:551:TYR:OH	2.20	0.41
1:B:93:HIS:C	1:B:237:PHE:CG	2.82	0.41
1:B:132:LEU:HD21	1:B:147:HIS:O	2.21	0.41
1:B:156:HIS:CD2	1:B:157:VAL:C	2.88	0.41
1:B:176:ARG:CZ	1:B:446:GLU:CG	2.86	0.41
1:B:200:THR:CG2	1:B:201:ALA:N	2.78	0.41
1:B:262:SER:HB2	1:B:269:LEU:HG	2.03	0.41
1:B:334:ARG:HH11	1:B:334:ARG:CG	2.34	0.41
1:B:341:SER:O	1:B:559:GLU:OE2	2.39	0.41
1:B:364:TRP:CE2	1:B:628:VAL:CG1	3.02	0.41
1:B:400:THR:OG1	1:B:686:ILE:HG23	2.21	0.41
1:B:401:LEU:HB3	1:B:404:ILE:HD12	2.03	0.41
1:B:406:ASN:C	1:B:408:PHE:H	2.29	0.41
1:B:512:GLU:O	1:B:514:GLY:N	2.53	0.41
1:B:579:PRO:O	1:B:579:PRO:HG2	2.20	0.41
1:B:598:ARG:NH2	1:B:710:ASP:CG	2.73	0.41
1:B:620:ARG:C	1:B:621:VAL:CG2	2.90	0.41
1:B:735:MET:HB3	1:B:737:LEU:CD1	2.16	0.41
1:A:6:VAL:CG2	1:A:434:GLY:CA	2.85	0.41
1:A:38:LEU:CG	1:A:39:GLN:N	2.84	0.41
1:A:52:LEU:CD1	1:A:53:LEU:N	2.72	0.41
1:A:110:ILE:O	1:A:112:GLY:N	2.43	0.41
1:A:179:THR:O	1:A:332:LYS:CE	2.65	0.41
1:A:204:SER:O	1:A:205:VAL:HB	2.21	0.41
1:A:263:PRO:HG3	1:A:502:VAL:HG21	2.00	0.41
1:A:349:ILE:HD12	1:A:357:HIS:O	2.20	0.41
1:A:387:LEU:H	1:A:572:THR:HG22	1.85	0.41
1:A:535:ILE:HD11	1:A:540:ILE:C	2.45	0.41
1:A:542:THR:HG23	1:A:544:GLU:HB2	1.98	0.41
1:A:735:MET:SD	1:A:737:LEU:HB2	2.59	0.41
1:A:747:THR:HA	1:A:750:LEU:CG	2.51	0.41
1:B:44:PHE:O	1:B:45:SER:HB3	2.21	0.41
1:B:52:LEU:O	1:B:173:ARG:HA	2.21	0.41
1:B:60:ASN:C	1:B:61:ILE:HD12	2.46	0.41
1:B:70:PHE:CA	1:B:85:LEU:HD13	2.51	0.41
1:B:102:ILE:O	1:B:106:LEU:CB	2.69	0.41
1:B:350:ASP:HB2	1:B:429:THR:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:364:TRP:N	1:B:410:VAL:HG21	2.36	0.41
1:B:374:THR:H	1:B:387:LEU:CB	2.34	0.41
1:B:399:ALA:O	1:B:403:PRO:CD	2.69	0.41
1:B:591:ASP:O	1:B:606:VAL:O	2.37	0.41
1:A:5:LYS:N	1:A:5:LYS:CD	2.77	0.40
1:A:36:LEU:CA	1:A:263:PRO:CA	2.94	0.40
1:A:62:ASP:OD1	1:A:65:MET:N	2.46	0.40
1:A:101:GLU:OE1	1:A:102:ILE:HG13	2.21	0.40
1:A:185:ALA:O	1:A:189:CYS:SG	2.78	0.40
1:A:345:GLN:HA	1:A:360:VAL:CB	2.51	0.40
1:A:349:ILE:CD1	1:A:355:PRO:C	2.84	0.40
1:A:359:VAL:CG1	1:A:438:THR:O	2.69	0.40
1:A:404:ILE:C	1:A:406:ASN:N	2.78	0.40
1:A:503:VAL:CG2	1:A:519:VAL:CA	2.99	0.40
1:A:547:GLU:CA	1:A:550:ALA:CB	2.85	0.40
1:A:580:TRP:CD1	1:A:581:HIS:CA	3.04	0.40
1:A:641:VAL:O	1:A:645:ARG:HG2	2.21	0.40
1:A:735:MET:CG	1:A:737:LEU:N	2.72	0.40
1:B:58:LYS:HE2	1:B:58:LYS:H	1.84	0.40
1:B:68:ARG:NH2	1:B:328:VAL:HA	2.31	0.40
1:B:97:ALA:O	1:B:98:CYS:C	2.64	0.40
1:B:116:ARG:HD3	1:B:116:ARG:HA	1.76	0.40
1:B:215:LYS:NZ	1:B:215:LYS:C	2.78	0.40
1:B:467:VAL:HG22	1:B:468:ASP:H	1.84	0.40
1:B:509:VAL:HG23	1:B:511:ALA:HB2	2.03	0.40
1:B:631:ALA:O	1:B:635:MET:SD	2.79	0.40
1:B:693:LEU:C	1:B:697:ARG:HH22	2.29	0.40
1:A:182:ASN:O	1:A:185:ALA:CB	2.68	0.40
1:A:233:ALA:C	1:A:236:ALA:HB3	2.35	0.40
1:A:380:ASN:O	1:A:381:ASN:CB	2.69	0.40
1:A:446:GLU:O	1:A:450:ALA:CB	2.69	0.40
1:A:509:VAL:HG23	1:A:510:ALA:H	1.85	0.40
1:A:612:LEU:C	1:A:614:LEU:N	2.78	0.40
1:A:616:GLN:HE21	1:A:616:GLN:CA	2.31	0.40
1:A:675:LEU:CD1	1:A:721:HIS:CD2	2.94	0.40
1:B:12:SER:O	1:B:463:ARG:CB	2.69	0.40
1:B:65:MET:O	1:B:69:LEU:HD23	2.20	0.40
1:B:114:SER:O	1:B:117:ALA:CB	2.68	0.40
1:B:119:LYS:CB	1:B:219:ALA:HB3	2.35	0.40
1:B:132:LEU:CD2	1:B:147:HIS:O	2.70	0.40
1:B:173:ARG:NH2	1:B:578:TRP:HZ2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:PRO:CB	1:B:331:PHE:CE2	2.85	0.40
1:B:232:ALA:CA	1:B:235:THR:OG1	2.69	0.40
1:B:254:LEU:HB2	1:B:297:MET:HE1	1.46	0.40
1:B:522:VAL:HB	1:B:540:ILE:HD12	2.01	0.40
1:B:553:LYS:HD3	1:B:553:LYS:HA	1.92	0.40
1:B:564:LYS:HB3	1:B:565:VAL:H	1.55	0.40
1:B:577:ILE:CD1	1:B:578:TRP:O	2.69	0.40
1:B:598:ARG:NH2	1:B:708:ILE:C	2.79	0.40
1:B:702:MET:CE	1:B:702:MET:CA	2.92	0.40
1:B:744:GLU:HA	1:B:747:THR:OG1	2.20	0.40
1:A:18:GLN:O	1:A:21:ALA:CB	2.70	0.40
1:A:44:PHE:CD2	1:A:333:LEU:HA	2.57	0.40
1:A:104:ARG:CZ	1:A:104:ARG:CA	2.99	0.40
1:A:145:LEU:O	1:A:148:HIS:CA	2.68	0.40
1:A:173:ARG:CB	1:A:579:PRO:HG3	2.51	0.40
1:A:182:ASN:O	1:A:186:LEU:CD1	2.69	0.40
1:A:201:ALA:O	1:A:204:SER:CA	2.69	0.40
1:A:462:LEU:HD22	1:A:462:LEU:HA	1.89	0.40
1:A:507:GLN:N	1:A:507:GLN:CD	2.77	0.40
1:A:600:LYS:HD3	1:A:602:TYR:HE1	1.86	0.40
1:A:606:VAL:HA	1:A:610:GLU:OE2	2.21	0.40
1:B:22:ILE:CD1	1:B:516:LEU:O	2.70	0.40
1:B:96:THR:HG23	1:B:237:PHE:HB3	2.03	0.40
1:B:103:TRP:NE1	1:B:231:ASN:HA	2.31	0.40
1:B:159:SER:OG	1:B:159:SER:O	2.37	0.40
1:B:165:LEU:CD2	1:B:166:PRO:HA	2.52	0.40
1:B:254:LEU:HG	1:B:294:TYR:HA	2.03	0.40
1:B:308:PHE:CZ	1:B:318:ILE:N	2.78	0.40
1:B:343:ILE:CG2	1:B:345:GLN:OE1	2.69	0.40
1:B:500:GLU:O	1:B:501:VAL:CG2	2.69	0.40
1:B:560:VAL:CG2	1:B:561:LEU:N	2.84	0.40
1:B:586:GLU:C	1:B:622:ARG:HB2	2.44	0.40
1:B:647:LEU:HD13	1:B:648:ALA:HA	2.04	0.40
1:B:714:LEU:HD23	1:B:714:LEU:HA	1.91	0.40
1:B:741:SER:C	1:B:743:ALA:N	2.76	0.40
1:A:64:VAL:HG12	1:A:196:ARG:HG2	2.04	0.40
1:A:100:PRO:CG	1:A:101:GLU:H	2.28	0.40
1:A:126:VAL:HG21	1:A:165:LEU:CB	2.11	0.40
1:A:187:VAL:HG11	1:A:247:ASN:N	2.09	0.40
1:A:292:ILE:O	1:A:296:ASP:CB	2.69	0.40
1:A:312:GLU:C	1:A:315:SER:HG	2.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:THR:HB	1:A:620:ARG:CZ	2.51	0.40
1:A:421:TYR:CA	1:A:423:ALA:O	2.70	0.40
1:A:498:ASN:ND2	1:A:522:VAL:CG1	2.80	0.40
1:A:502:VAL:CG2	1:A:503:VAL:HG12	2.51	0.40
1:A:530:VAL:CB	1:A:551:TYR:OH	2.70	0.40
1:A:580:TRP:CE2	1:A:581:HIS:HA	2.50	0.40
1:A:653:THR:HG23	1:A:655:ARG:HD3	2.03	0.40
1:B:24:GLU:O	1:B:24:GLU:CG	2.69	0.40
1:B:88:GLN:NE2	1:B:143:HIS:CD2	2.74	0.40
1:B:96:THR:C	1:B:234:THR:CG2	2.94	0.40
1:B:117:ALA:CB	1:B:222:PRO:CG	2.85	0.40
1:B:222:PRO:C	1:B:224:LEU:HG	2.46	0.40
1:B:238:GLU:O	1:B:241:ARG:HD3	2.21	0.40
1:B:259:ARG:CG	1:B:268:GLU:O	2.70	0.40
1:B:298:VAL:CA	1:B:302:GLY:H	2.34	0.40
1:B:505:GLU:C	1:B:517:TYR:CZ	2.98	0.40
1:B:527:ARG:N	1:B:527:ARG:CD	2.81	0.40
1:B:561:LEU:N	1:B:561:LEU:CD2	2.81	0.40
1:B:589:TYR:H	1:B:734:MET:HG3	1.85	0.40
1:B:607:LYS:HG3	1:B:609:PHE:CD2	2.49	0.40
1:A:4:LEU:HD21	1:A:17:THR:CG2	2.45	0.40
1:A:49:THR:C	1:A:51:GLU:OE1	2.64	0.40
1:A:151:THR:O	1:A:154:VAL:HB	2.21	0.40
1:A:217:LYS:O	1:A:219:ALA:CB	2.70	0.40
1:A:230:ALA:CA	1:A:233:ALA:HB3	2.45	0.40
1:A:244:PHE:C	1:A:249:VAL:HG13	2.46	0.40
1:A:466:ILE:O	1:A:467:VAL:O	2.28	0.40
1:A:466:ILE:H	1:A:466:ILE:HG13	1.57	0.40
1:A:493:TYR:CG	1:A:549:ILE:HD12	2.54	0.40
1:A:517:TYR:OH	1:A:520:TRP:CE3	2.74	0.40
1:A:535:ILE:HD11	1:A:541:ARG:N	2.37	0.40
1:A:671:ALA:HB1	1:A:754:ASN:N	2.35	0.40
1:B:14:ARG:O	1:B:17:THR:CB	2.70	0.40
1:B:53:LEU:CG	1:B:571:HIS:ND1	2.84	0.40
1:B:72:GLN:O	1:B:75:GLN:CA	2.69	0.40
1:B:75:GLN:NE2	1:B:177:THR:OG1	2.54	0.40
1:B:97:ALA:CA	1:B:99:ASN:OD1	2.70	0.40
1:B:107:THR:CA	1:B:110:ILE:CG1	2.84	0.40
1:B:111:THR:CG2	1:B:121:ASP:OD1	2.70	0.40
1:B:123:VAL:HA	1:B:164:ILE:HG22	1.93	0.40
1:B:244:PHE:CD1	1:B:318:ILE:CG2	2.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:259:ARG:C	1:B:261:TRP:N	2.78	0.40
1:B:277:ASN:CG	1:B:278:THR:N	2.79	0.40
1:B:291:PHE:CE2	1:B:503:VAL:HG22	2.56	0.40
1:B:327:GLU:OE1	1:B:327:GLU:CA	2.69	0.40
1:B:342:TYR:HB2	1:B:363:ASP:CB	2.51	0.40
1:B:410:VAL:HG23	1:B:411:SER:N	2.36	0.40
1:B:497:HIS:CD2	1:B:549:ILE:HD11	2.02	0.40
1:B:694:ALA:HB1	1:B:726:TRP:CD1	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	755/761 (99%)	575 (76%)	109 (14%)	71 (9%)	0	8
1	B	757/761 (100%)	591 (78%)	105 (14%)	61 (8%)	1	9
All	All	1512/1522 (99%)	1166 (77%)	214 (14%)	132 (9%)	1	8

All (132) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	34	LEU
1	A	61	ILE
1	A	119	LYS
1	A	123	VAL
1	A	144	GLU
1	A	162	GLY
1	A	181	PRO
1	A	198	MET
1	A	241	ARG
1	A	263	PRO

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Mol	Chain	Res	Type
1	A	356	SER
1	A	386	PHE
1	A	433	ASN
1	A	477	ASN
1	A	503	VAL
1	A	527	ARG
1	A	531	GLY
1	A	582	GLU
1	A	625	LYS
1	A	655	ARG
1	A	740	ARG
1	B	45	SER
1	B	61	ILE
1	B	99	ASN
1	B	113	SER
1	B	118	ILE
1	B	126	VAL
1	B	145	LEU
1	B	156	HIS
1	B	164	ILE
1	B	221	ALA
1	B	222	PRO
1	B	268	GLU
1	B	277	ASN
1	B	303	ARG
1	B	340	THR
1	B	342	TYR
1	B	349	ILE
1	B	355	PRO
1	B	359	VAL
1	B	378	LEU
1	B	442	PRO
1	B	540	ILE
1	B	565	VAL
1	B	582	GLU
1	B	585	THR
1	B	598	ARG
1	B	626	PRO
1	B	740	ARG
1	B	754	ASN
1	B	760	VAL
1	A	115	ASN

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Mol	Chain	Res	Type
1	A	219	ALA
1	A	251	SER
1	A	292	ILE
1	A	332	LYS
1	A	348	ALA
1	A	349	ILE
1	A	361	TYR
1	A	362	GLU
1	A	437	MET
1	A	497	HIS
1	A	502	VAL
1	A	584	SER
1	A	597	ILE
1	A	684	THR
1	A	739	SER
1	B	62	ASP
1	B	98	CYS
1	B	111	THR
1	B	174	VAL
1	B	271	PRO
1	B	376	VAL
1	B	409	ALA
1	B	501	VAL
1	B	621	VAL
1	A	129	THR
1	A	222	PRO
1	A	289	ALA
1	A	319	PRO
1	A	338	GLU
1	A	381	ASN
1	A	467	VAL
1	A	522	VAL
1	A	555	ILE
1	A	558	SER
1	A	656	ASP
1	B	5	LYS
1	B	48	MET
1	B	603	THR
1	B	609	PHE
1	A	21	ALA
1	A	31	VAL
1	A	165	LEU

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Mol	Chain	Res	Type
1	A	205	VAL
1	A	328	VAL
1	A	382	SER
1	A	408	PHE
1	A	468	ASP
1	A	475	ALA
1	B	36	LEU
1	B	78	GLY
1	B	351	HIS
1	B	454	ASP
1	B	611	LEU
1	A	18	GLN
1	A	315	SER
1	A	445	VAL
1	A	559	GLU
1	A	690	ALA
1	A	714	LEU
1	B	43	THR
1	B	229	LEU
1	B	509	VAL
1	B	529	PRO
1	B	557	PRO
1	A	127	PRO
1	A	330	PRO
1	A	573	THR
1	B	429	THR
1	A	37	PRO
1	B	127	PRO
1	B	441	PHE
1	B	578	TRP
1	A	110	ILE
1	A	556	GLN
1	B	270	ASP
1	A	375	PRO
1	A	578	TRP
1	B	502	VAL
1	B	555	ILE
1	B	370	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	629/629 (100%)	335 (53%)	294 (47%)	0	0
1	B	629/629 (100%)	310 (49%)	319 (51%)	0	0
All	All	1258/1258 (100%)	645 (51%)	613 (49%)	0	0

All (613) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	6	VAL
1	A	8	ASP
1	A	9	LEU
1	A	14	ARG
1	A	16	LEU
1	A	17	THR
1	A	18	GLN
1	A	20	PHE
1	A	24	GLU
1	A	25	LEU
1	A	26	LYS
1	A	27	ASN
1	A	28	GLN
1	A	39	GLN
1	A	40	PHE
1	A	41	THR
1	A	42	ARG
1	A	43	THR
1	A	44	PHE
1	A	45	SER
1	A	48	MET
1	A	49	THR
1	A	50	SER
1	A	51	GLU
1	A	52	LEU
1	A	53	LEU

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Mol	Chain	Res	Type
1	A	55	GLU
1	A	58	LYS
1	A	62	ASP
1	A	64	VAL
1	A	68	ARG
1	A	70	PHE
1	A	72	GLN
1	A	73	TYR
1	A	80	LEU
1	A	81	SER
1	A	84	GLU
1	A	85	LEU
1	A	92	TYR
1	A	95	SER
1	A	101	GLU
1	A	104	ARG
1	A	105	LYS
1	A	107	THR
1	A	110	ILE
1	A	111	THR
1	A	113	SER
1	A	119	LYS
1	A	121	ASP
1	A	127	PRO
1	A	133	GLU
1	A	136	ARG
1	A	137	THR
1	A	142	GLU
1	A	143	HIS
1	A	144	GLU
1	A	145	LEU
1	A	156	HIS
1	A	158	LEU
1	A	161	LEU
1	A	164	ILE
1	A	165	LEU
1	A	166	PRO
1	A	167	ASP
1	A	173	ARG
1	A	174	VAL
1	A	179	THR
1	A	180	TYR

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Mol	Chain	Res	Type
1	A	183	PHE
1	A	187	VAL
1	A	188	ASP
1	A	190	VAL
1	A	193	SER
1	A	194	ASP
1	A	195	LEU
1	A	196	ARG
1	A	197	ARG
1	A	199	LEU
1	A	200	THR
1	A	202	LEU
1	A	203	SER
1	A	206	ASP
1	A	208	LYS
1	A	209	MET
1	A	210	LEU
1	A	211	GLN
1	A	215	LYS
1	A	220	LEU
1	A	229	LEU
1	A	238	GLU
1	A	239	ARG
1	A	240	SER
1	A	250	VAL
1	A	251	SER
1	A	253	VAL
1	A	256	ILE
1	A	260	LEU
1	A	262	SER
1	A	267	LYS
1	A	274	ARG
1	A	275	LEU
1	A	276	ARG
1	A	281	ILE
1	A	284	LEU
1	A	287	ASN
1	A	288	LEU
1	A	290	LEU
1	A	292	ILE
1	A	294	TYR
1	A	300	GLN

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Mol	Chain	Res	Type
1	A	301	ARG
1	A	303	ARG
1	A	307	ILE
1	A	311	GLU
1	A	313	LEU
1	A	317	ILE
1	A	318	ILE
1	A	325	MET
1	A	326	SER
1	A	327	GLU
1	A	328	VAL
1	A	331	PHE
1	A	332	LYS
1	A	334	ARG
1	A	336	ILE
1	A	339	THR
1	A	340	THR
1	A	342	TYR
1	A	345	GLN
1	A	346	THR
1	A	350	ASP
1	A	351	HIS
1	A	352	MET
1	A	354	GLN
1	A	355	PRO
1	A	357	HIS
1	A	358	VAL
1	A	363	ASP
1	A	373	PHE
1	A	377	LYS
1	A	378	LEU
1	A	381	ASN
1	A	384	GLN
1	A	387	LEU
1	A	393	ILE
1	A	396	ARG
1	A	397	MET
1	A	398	SER
1	A	400	THR
1	A	401	LEU
1	A	403	PRO
1	A	407	THR

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Mol	Chain	Res	Type
1	A	413	PHE
1	A	415	LYS
1	A	417	ARG
1	A	418	THR
1	A	420	VAL
1	A	421	TYR
1	A	424	VAL
1	A	427	ARG
1	A	431	ASN
1	A	438	THR
1	A	439	LEU
1	A	443	SER
1	A	445	VAL
1	A	447	ARG
1	A	448	ASP
1	A	453	ARG
1	A	455	PRO
1	A	456	MET
1	A	462	LEU
1	A	463	ARG
1	A	466	ILE
1	A	471	LEU
1	A	474	ARG
1	A	480	LYS
1	A	481	ARG
1	A	483	MET
1	A	485	ASN
1	A	486	TYR
1	A	487	TYR
1	A	493	TYR
1	A	497	HIS
1	A	498	ASN
1	A	500	GLU
1	A	502	VAL
1	A	503	VAL
1	A	505	GLU
1	A	507	GLN
1	A	512	GLU
1	A	515	SER
1	A	517	TYR
1	A	518	LEU
1	A	521	ASN

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Mol	Chain	Res	Type
1	A	522	VAL
1	A	525	GLU
1	A	526	LEU
1	A	527	ARG
1	A	528	ILE
1	A	533	ASN
1	A	536	GLU
1	A	539	SER
1	A	541	ARG
1	A	542	THR
1	A	544	GLU
1	A	545	PRO
1	A	546	LEU
1	A	549	ILE
1	A	553	LYS
1	A	555	ILE
1	A	556	GLN
1	A	568	LEU
1	A	571	HIS
1	A	574	SER
1	A	575	ILE
1	A	576	HIS
1	A	577	ILE
1	A	580	TRP
1	A	582	GLU
1	A	584	SER
1	A	590	GLU
1	A	593	TYR
1	A	596	THR
1	A	597	ILE
1	A	598	ARG
1	A	599	ASN
1	A	600	LYS
1	A	601	ARG
1	A	606	VAL
1	A	607	LYS
1	A	609	PHE
1	A	610	GLU
1	A	611	LEU
1	A	612	LEU
1	A	614	LEU
1	A	616	GLN

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Mol	Chain	Res	Type
1	A	617	ARG
1	A	619	GLU
1	A	620	ARG
1	A	623	ILE
1	A	624	LEU
1	A	625	LYS
1	A	628	VAL
1	A	630	HIS
1	A	632	ILE
1	A	633	ILE
1	A	635	MET
1	A	641	VAL
1	A	645	ARG
1	A	646	THR
1	A	651	ARG
1	A	652	ARG
1	A	656	ASP
1	A	659	GLU
1	A	661	LEU
1	A	663	ILE
1	A	664	ASP
1	A	668	MET
1	A	673	THR
1	A	674	LEU
1	A	676	ARG
1	A	677	LYS
1	A	679	GLU
1	A	680	MET
1	A	691	VAL
1	A	693	LEU
1	A	695	GLN
1	A	697	ARG
1	A	698	ILE
1	A	701	GLN
1	A	702	MET
1	A	707	LEU
1	A	708	ILE
1	A	711	SER
1	A	714	LEU
1	A	715	HIS
1	A	716	VAL
1	A	718	ILE

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Mol	Chain	Res	Type
1	A	720	ARG
1	A	721	HIS
1	A	723	ILE
1	A	724	ARG
1	A	732	LEU
1	A	733	GLN
1	A	735	MET
1	A	738	LEU
1	A	739	SER
1	A	742	GLU
1	A	748	LYS
1	A	752	ASP
1	A	753	SER
1	A	759	VAL
1	A	760	VAL
1	B	9	LEU
1	B	16	LEU
1	B	18	GLN
1	B	22	ILE
1	B	25	LEU
1	B	26	LYS
1	B	27	ASN
1	B	28	GLN
1	B	29	LEU
1	B	34	LEU
1	B	35	GLN
1	B	36	LEU
1	B	38	LEU
1	B	39	GLN
1	B	42	ARG
1	B	43	THR
1	B	44	PHE
1	B	45	SER
1	B	47	SER
1	B	48	MET
1	B	52	LEU
1	B	53	LEU
1	B	54	TRP
1	B	56	VAL
1	B	58	LYS
1	B	60	ASN
1	B	61	ILE

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Mol	Chain	Res	Type
1	B	65	MET
1	B	66	TYR
1	B	68	ARG
1	B	71	PHE
1	B	73	TYR
1	B	80	LEU
1	B	82	VAL
1	B	84	GLU
1	B	87	ASN
1	B	90	THR
1	B	91	GLU
1	B	92	TYR
1	B	94	GLN
1	B	101	GLU
1	B	102	ILE
1	B	103	TRP
1	B	104	ARG
1	B	105	LYS
1	B	114	SER
1	B	119	LYS
1	B	121	ASP
1	B	131	ILE
1	B	132	LEU
1	B	134	GLN
1	B	135	LEU
1	B	143	HIS
1	B	144	GLU
1	B	145	LEU
1	B	146	PHE
1	B	150	THR
1	B	151	THR
1	B	155	CYS
1	B	156	HIS
1	B	157	VAL
1	B	158	LEU
1	B	161	LEU
1	B	163	PHE
1	B	164	ILE
1	B	165	LEU
1	B	170	TYR
1	B	171	VAL
1	B	173	ARG

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Mol	Chain	Res	Type
1	B	176	ARG
1	B	177	THR
1	B	179	THR
1	B	187	VAL
1	B	190	VAL
1	B	191	ARG
1	B	194	ASP
1	B	196	ARG
1	B	197	ARG
1	B	200	THR
1	B	203	SER
1	B	205	VAL
1	B	207	SER
1	B	208	LYS
1	B	209	MET
1	B	211	GLN
1	B	214	PHE
1	B	215	LYS
1	B	217	LYS
1	B	222	PRO
1	B	225	ILE
1	B	228	HIS
1	B	229	LEU
1	B	231	ASN
1	B	234	THR
1	B	235	THR
1	B	238	GLU
1	B	239	ARG
1	B	243	ASN
1	B	244	PHE
1	B	251	SER
1	B	256	ILE
1	B	259	ARG
1	B	262	SER
1	B	267	LYS
1	B	268	GLU
1	B	269	LEU
1	B	270	ASP
1	B	271	PRO
1	B	272	SER
1	B	274	ARG
1	B	275	LEU

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Mol	Chain	Res	Type
1	B	276	ARG
1	B	278	THR
1	B	279	ASN
1	B	283	GLN
1	B	284	LEU
1	B	285	ARG
1	B	287	ASN
1	B	288	LEU
1	B	292	ILE
1	B	295	GLN
1	B	297	MET
1	B	300	GLN
1	B	301	ARG
1	B	303	ARG
1	B	305	GLU
1	B	308	PHE
1	B	310	ASP
1	B	312	GLU
1	B	313	LEU
1	B	315	SER
1	B	319	PRO
1	B	322	ILE
1	B	323	GLU
1	B	325	MET
1	B	326	SER
1	B	327	GLU
1	B	332	LYS
1	B	333	LEU
1	B	334	ARG
1	B	336	ILE
1	B	337	ASN
1	B	338	GLU
1	B	340	THR
1	B	341	SER
1	B	342	TYR
1	B	343	ILE
1	B	345	GLN
1	B	346	THR
1	B	349	ILE
1	B	352	MET
1	B	357	HIS
1	B	358	VAL

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Mol	Chain	Res	Type
1	B	360	VAL
1	B	361	TYR
1	B	364	TRP
1	B	365	GLN
1	B	368	LYS
1	B	370	ILE
1	B	374	THR
1	B	376	VAL
1	B	377	LYS
1	B	381	ASN
1	B	383	ASN
1	B	386	PHE
1	B	387	LEU
1	B	388	ASP
1	B	390	GLU
1	B	393	ILE
1	B	397	MET
1	B	403	PRO
1	B	407	THR
1	B	414	VAL
1	B	415	LYS
1	B	417	ARG
1	B	421	TYR
1	B	422	GLU
1	B	424	VAL
1	B	426	GLN
1	B	427	ARG
1	B	431	ASN
1	B	432	SER
1	B	433	ASN
1	B	438	THR
1	B	439	LEU
1	B	443	SER
1	B	445	VAL
1	B	446	GLU
1	B	447	ARG
1	B	452	ASP
1	B	453	ARG
1	B	457	VAL
1	B	462	LEU
1	B	464	THR
1	B	466	ILE

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Mol	Chain	Res	Type
1	B	469	GLU
1	B	470	SER
1	B	471	LEU
1	B	472	GLU
1	B	474	ARG
1	B	479	LEU
1	B	481	ARG
1	B	483	MET
1	B	484	PHE
1	B	491	MET
1	B	492	HIS
1	B	498	ASN
1	B	502	VAL
1	B	504	SER
1	B	505	GLU
1	B	506	HIS
1	B	507	GLN
1	B	513	GLN
1	B	515	SER
1	B	516	LEU
1	B	517	TYR
1	B	518	LEU
1	B	519	VAL
1	B	520	TRP
1	B	522	VAL
1	B	523	ARG
1	B	524	THR
1	B	526	LEU
1	B	527	ARG
1	B	528	ILE
1	B	532	TYR
1	B	533	ASN
1	B	535	ILE
1	B	552	ASN
1	B	559	GLU
1	B	561	LEU
1	B	562	GLN
1	B	564	LYS
1	B	565	VAL
1	B	566	LEU
1	B	568	LEU
1	B	570	ASN

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Mol	Chain	Res	Type
1	B	572	THR
1	B	574	SER
1	B	575	ILE
1	B	577	ILE
1	B	581	HIS
1	B	584	SER
1	B	585	THR
1	B	587	PHE
1	B	590	GLU
1	B	593	TYR
1	B	594	SER
1	B	595	VAL
1	B	597	ILE
1	B	600	LYS
1	B	601	ARG
1	B	607	LYS
1	B	609	PHE
1	B	610	GLU
1	B	612	LEU
1	B	614	LEU
1	B	616	GLN
1	B	617	ARG
1	B	619	GLU
1	B	622	ARG
1	B	623	ILE
1	B	625	LYS
1	B	626	PRO
1	B	633	ILE
1	B	634	GLN
1	B	635	MET
1	B	636	TRP
1	B	637	TYR
1	B	641	VAL
1	B	642	GLU
1	B	647	LEU
1	B	651	ARG
1	B	652	ARG
1	B	655	ARG
1	B	656	ASP
1	B	657	ASP
1	B	659	GLU
1	B	660	LYS

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Mol	Chain	Res	Type
1	B	661	LEU
1	B	663	ILE
1	B	666	ARG
1	B	668	MET
1	B	669	GLN
1	B	673	THR
1	B	675	LEU
1	B	676	ARG
1	B	677	LYS
1	B	678	ILE
1	B	680	MET
1	B	684	THR
1	B	693	LEU
1	B	695	GLN
1	B	697	ARG
1	B	698	ILE
1	B	702	MET
1	B	707	LEU
1	B	710	ASP
1	B	711	SER
1	B	715	HIS
1	B	716	VAL
1	B	718	ILE
1	B	720	ARG
1	B	721	HIS
1	B	722	ARG
1	B	723	ILE
1	B	724	ARG
1	B	725	ILE
1	B	726	TRP
1	B	729	LEU
1	B	732	LEU
1	B	733	GLN
1	B	735	MET
1	B	741	SER
1	B	750	LEU
1	B	753	SER
1	B	754	ASN
1	B	756	LEU
1	B	760	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	27	ASN
1	A	28	GLN
1	A	72	GLN
1	A	75	GLN
1	A	99	ASN
1	A	134	GLN
1	A	148	HIS
1	A	228	HIS
1	A	300	GLN
1	A	337	ASN
1	A	357	HIS
1	A	365	GLN
1	A	497	HIS
1	A	498	ASN
1	A	506	HIS
1	A	513	GLN
1	A	521	ASN
1	A	556	GLN
1	A	562	GLN
1	A	576	HIS
1	A	599	ASN
1	A	616	GLN
1	A	721	HIS
1	B	27	ASN
1	B	72	GLN
1	B	87	ASN
1	B	143	HIS
1	B	156	HIS
1	B	182	ASN
1	B	211	GLN
1	B	228	HIS
1	B	231	ASN
1	B	243	ASN
1	B	287	ASN
1	B	295	GLN
1	B	365	GLN
1	B	406	ASN
1	B	416	ASN
1	B	426	GLN
1	B	433	ASN
1	B	485	ASN
1	B	497	HIS

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Mol	Chain	Res	Type
1	B	498	ASN
1	B	533	ASN
1	B	556	GLN
1	B	570	ASN
1	B	571	HIS
1	B	581	HIS
1	B	634	GLN
1	B	669	GLN
1	B	692	HIS
1	B	695	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	5
1	B	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	51:GLU	C	52:LEU	N	2.98
1	A	357:HIS	C	358:VAL	N	2.72
1	B	336:ILE	C	337:ASN	N	2.72
1	B	127:PRO	C	128:PRO	N	1.91
1	A	437:MET	C	438:THR	N	1.61
1	A	390:GLU	C	391:PRO	N	1.19
1	A	466:ILE	C	467:VAL	N	0.50

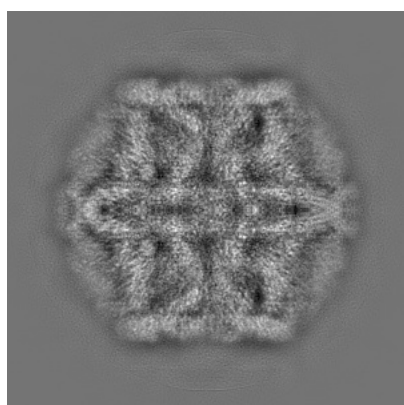
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2364. These allow visual inspection of the internal detail of the map and identification of artifacts.

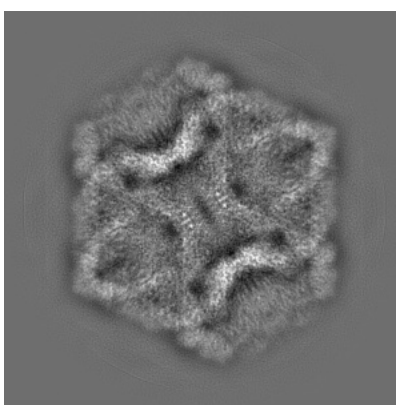
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

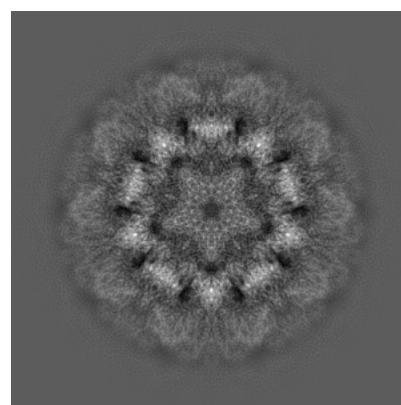
6.1.1 Primary map



X



Y

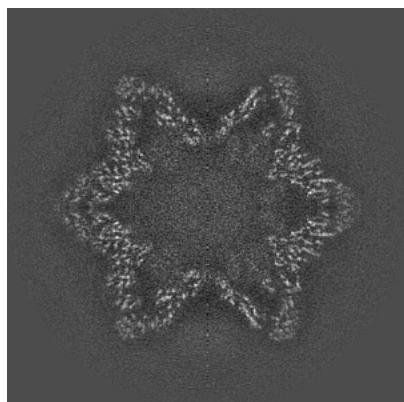


Z

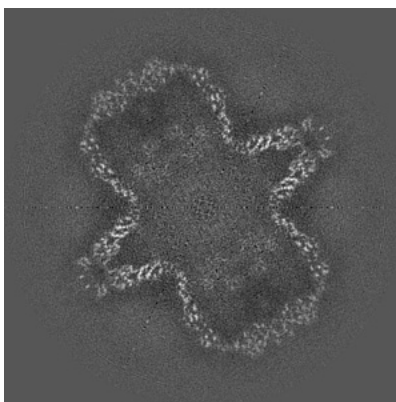
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

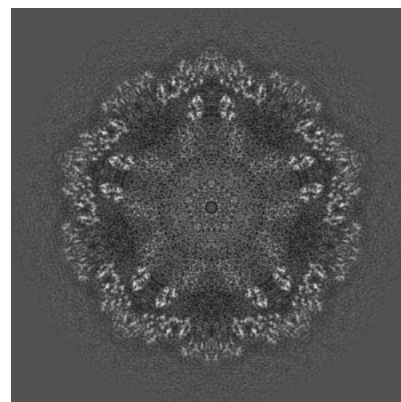
6.2.1 Primary map



X Index: 210



Y Index: 210

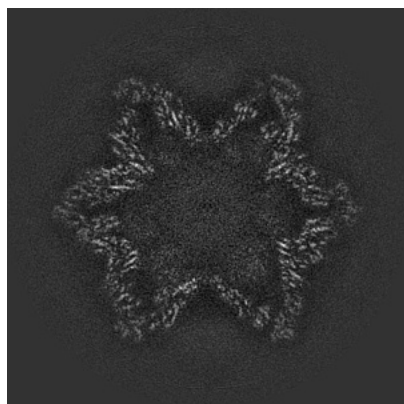


Z Index: 210

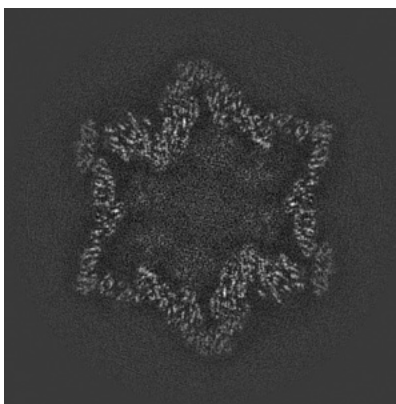
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

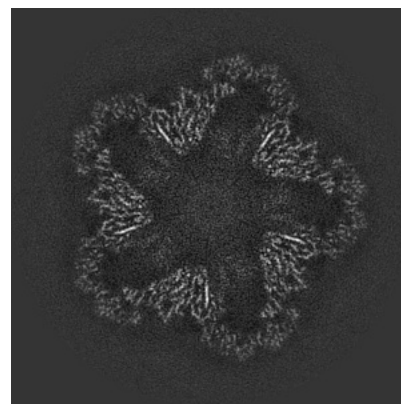
6.3.1 Primary map



X Index: 214



Y Index: 176

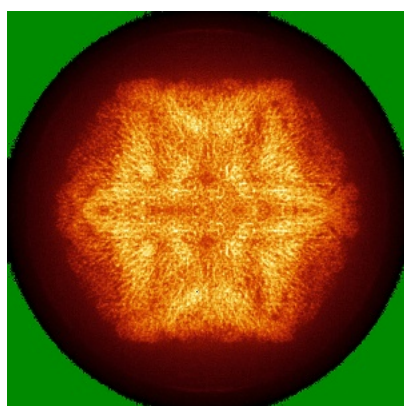


Z Index: 189

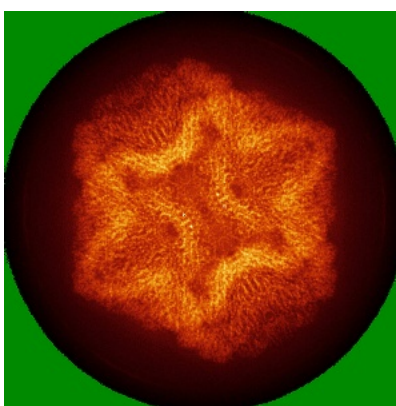
The images above show the largest variance slices of the map in three orthogonal directions.

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

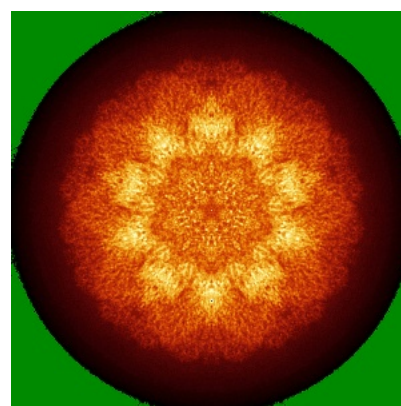
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

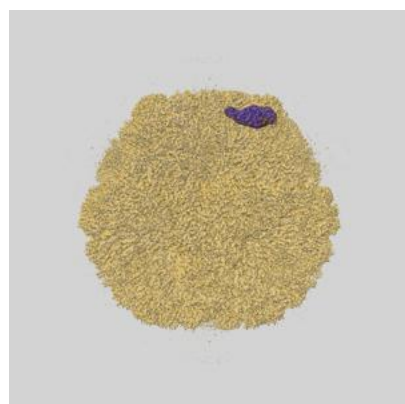
6.6 Mask visualisation [i](#)

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

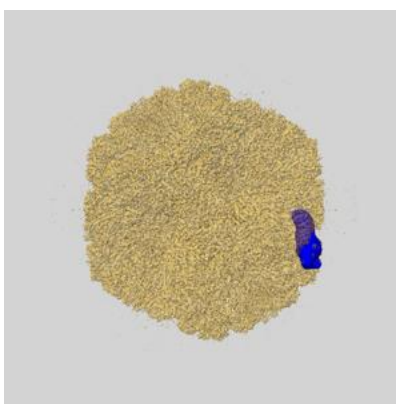
A mask typically either:

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

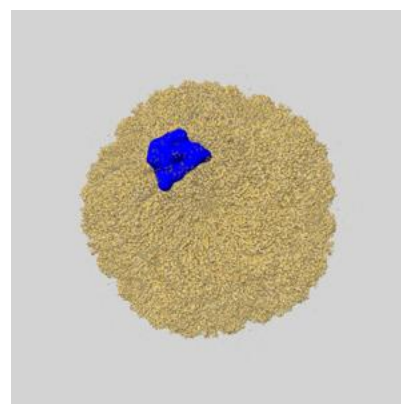
6.6.1 emd_2364_msk_1.map [i](#)



X

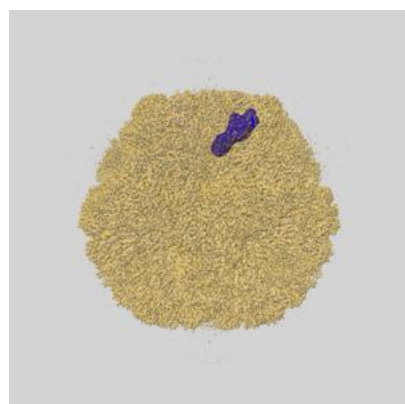


Y

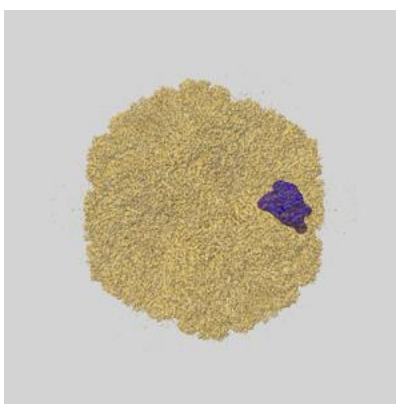


Z

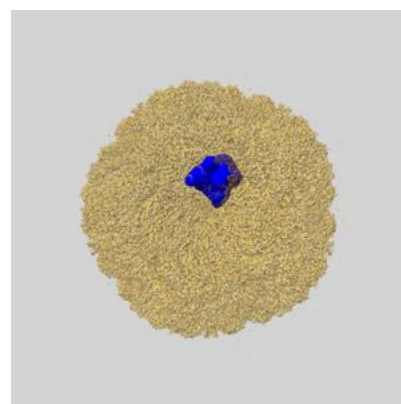
6.6.2 emd_2364_msk_2.map [i](#)



X



Y

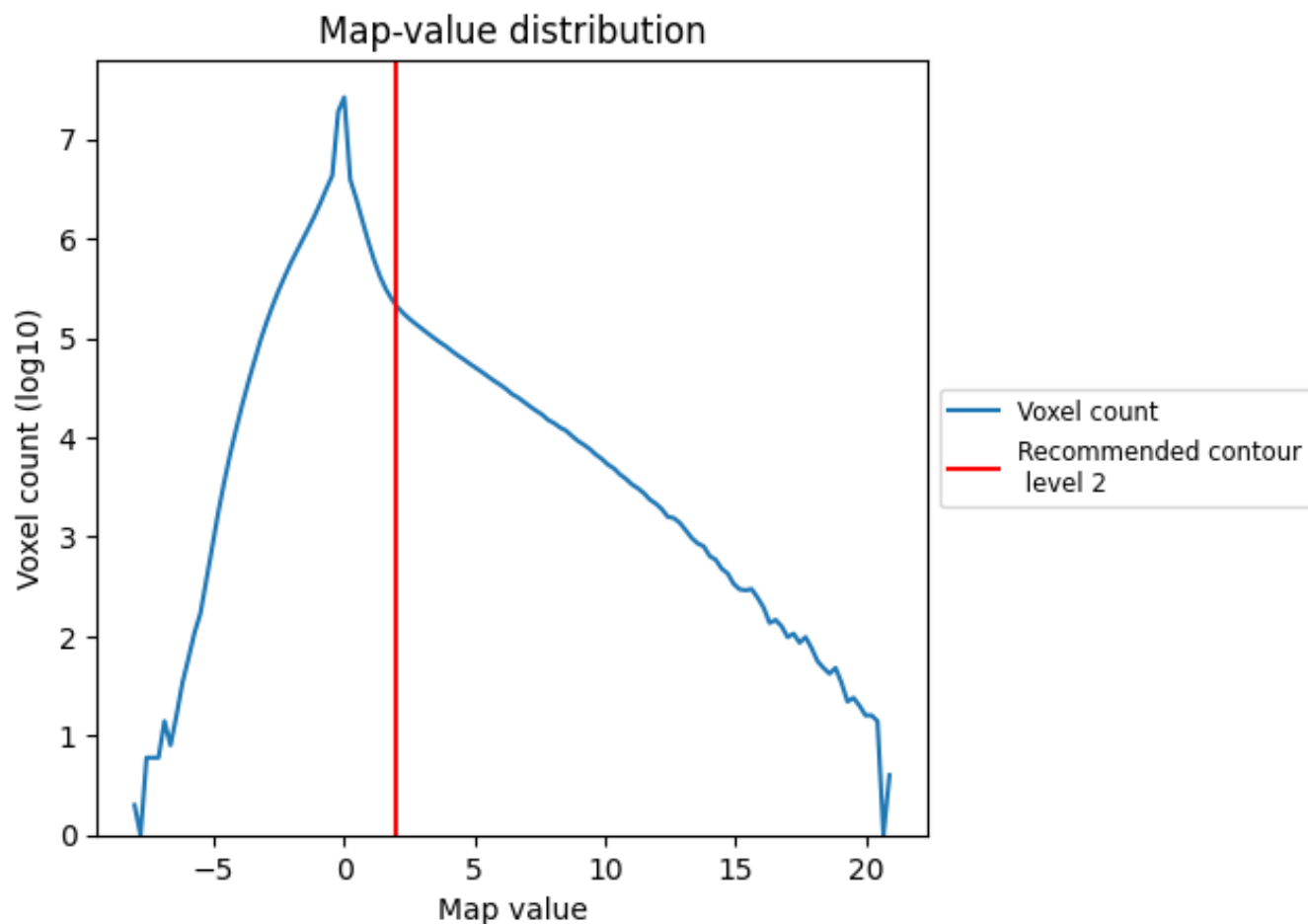


Z

7 Map analysis [i](#)

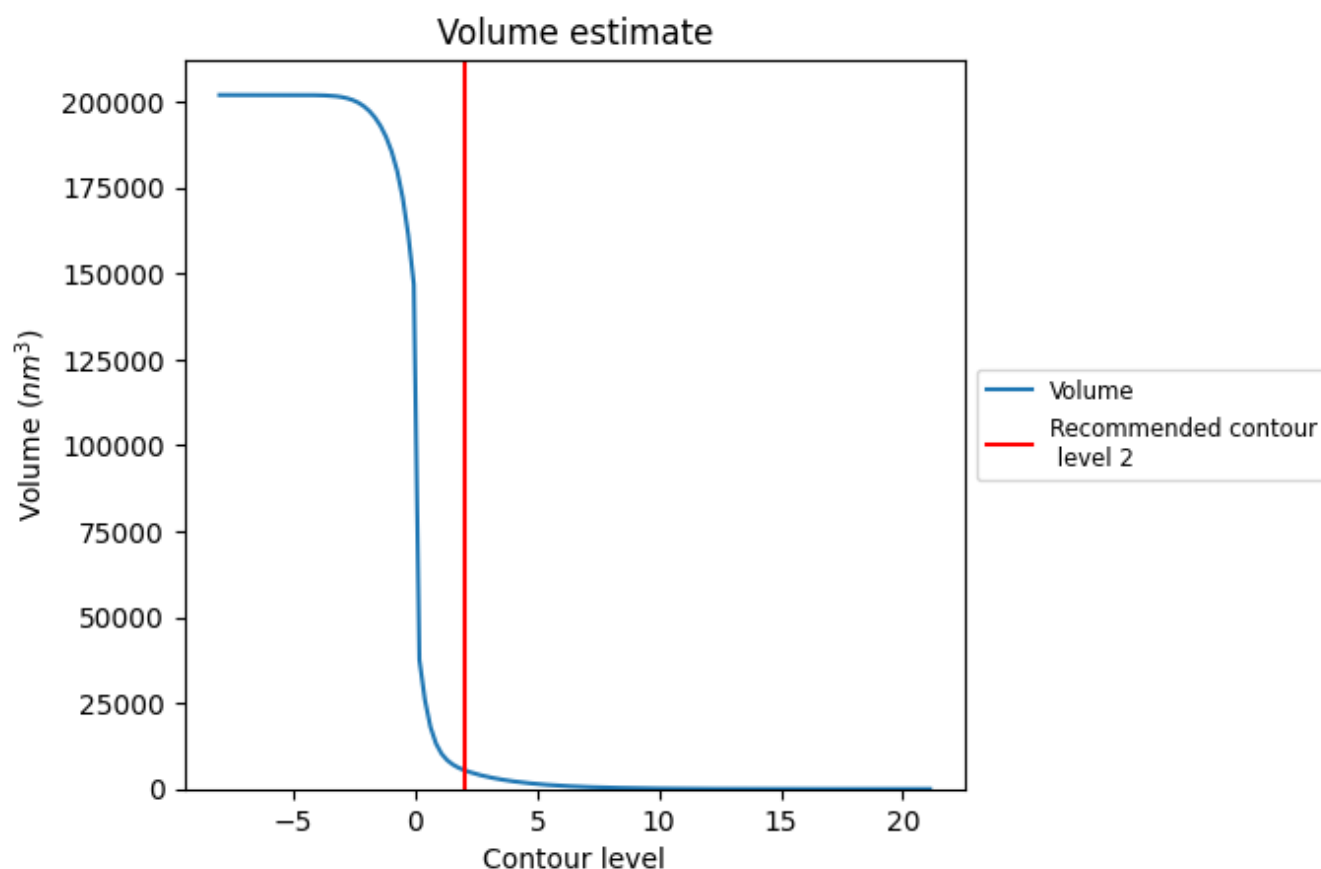
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

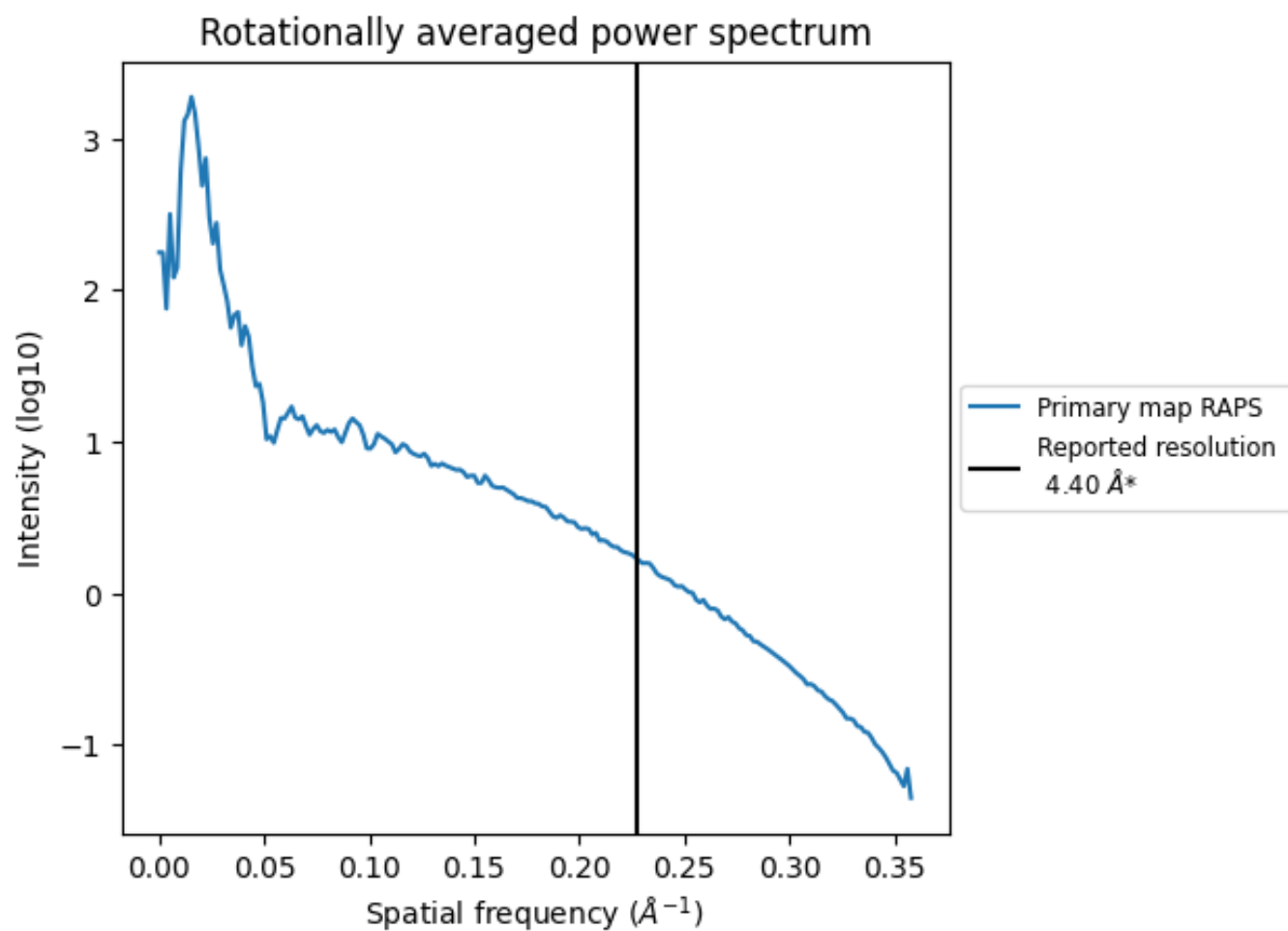
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 5485 nm³; this corresponds to an approximate mass of 4954 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

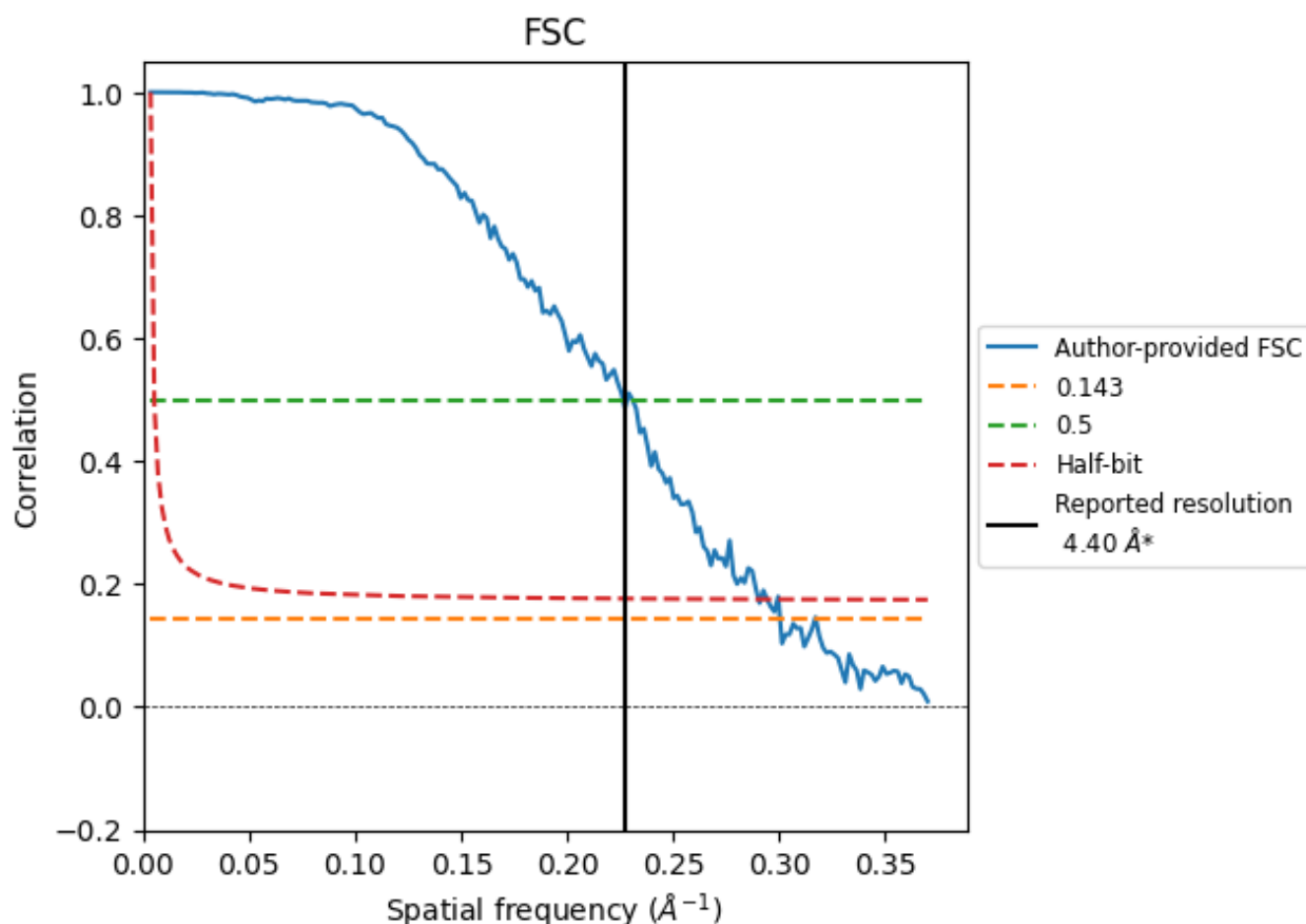


*Reported resolution corresponds to spatial frequency of 0.227 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.227 Å⁻¹

8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	-	-	-
Author-provided FSC curve	3.33	4.42	3.44
Unmasked-calculated*	-	-	-

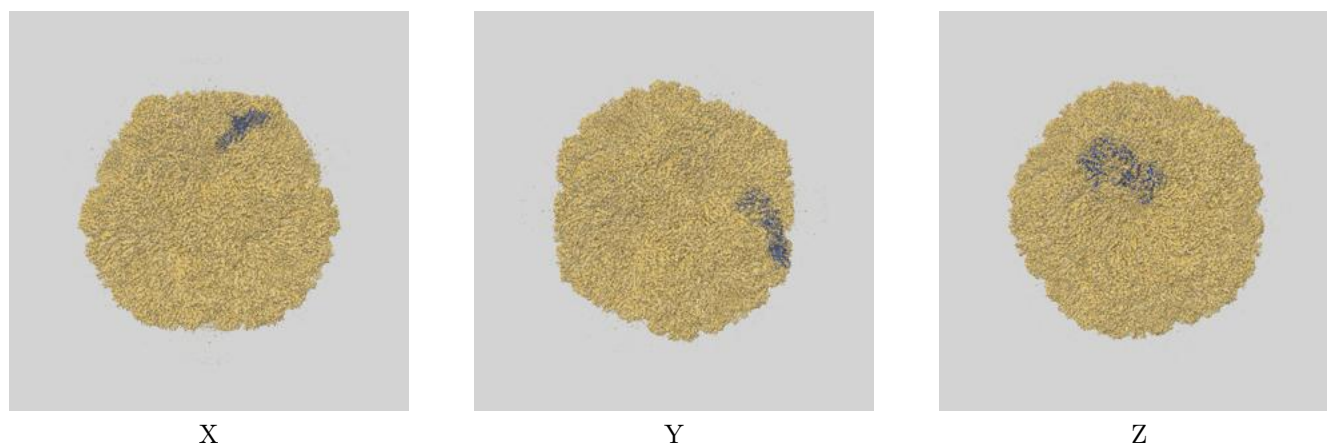
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

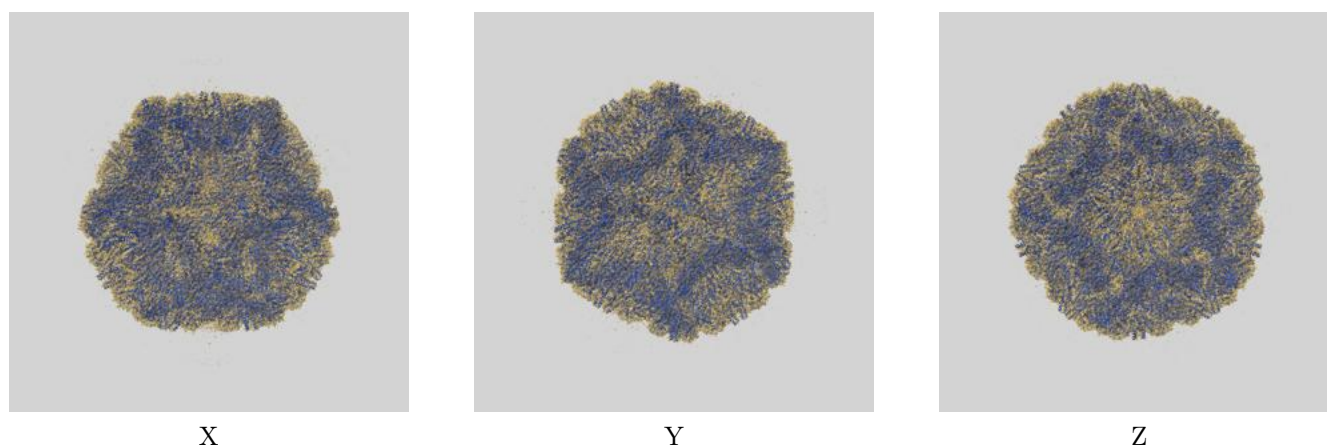
This section contains information regarding the fit between EMDB map EMD-2364 and PDB model 4BTG. Per-residue inclusion information can be found in section [3](#) on page [4](#).

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

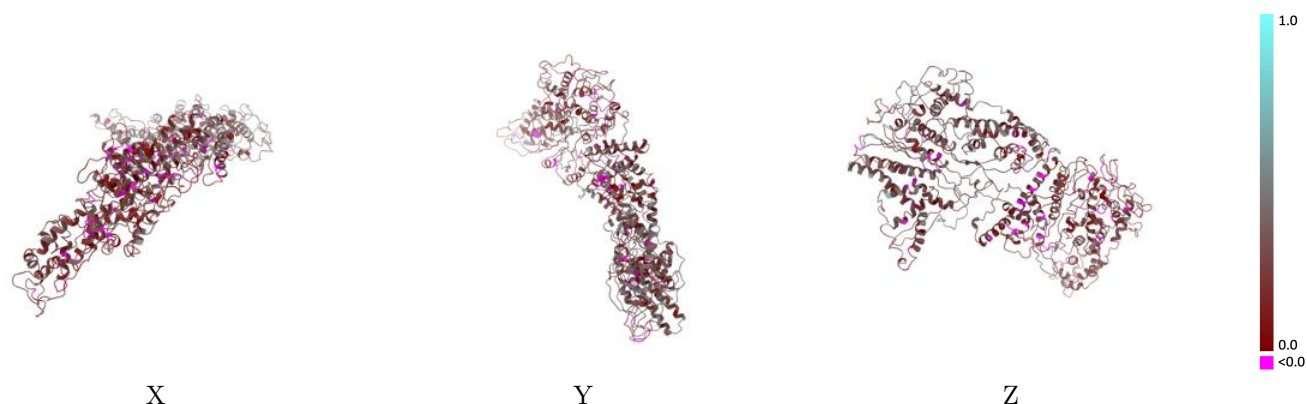


9.1.2 Map-model assembly overlay [i](#)



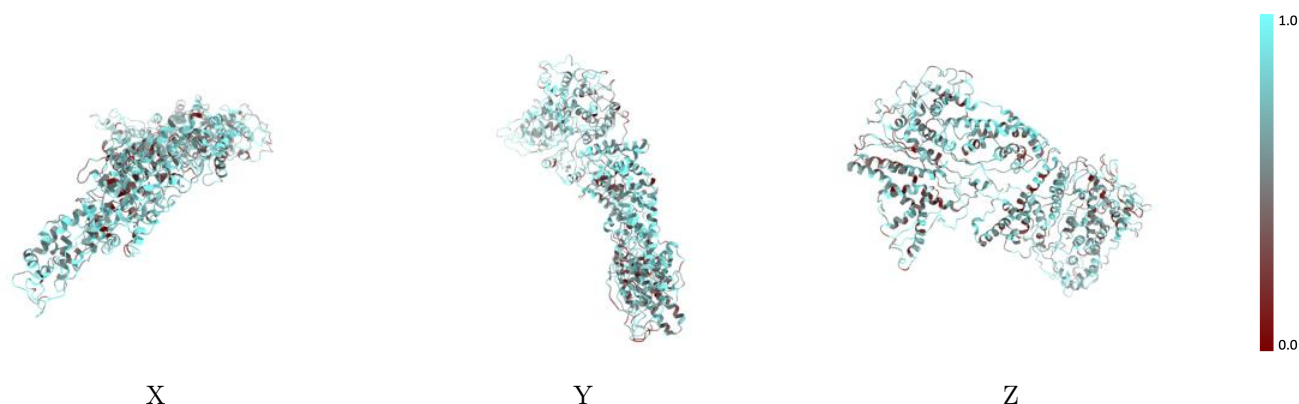
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



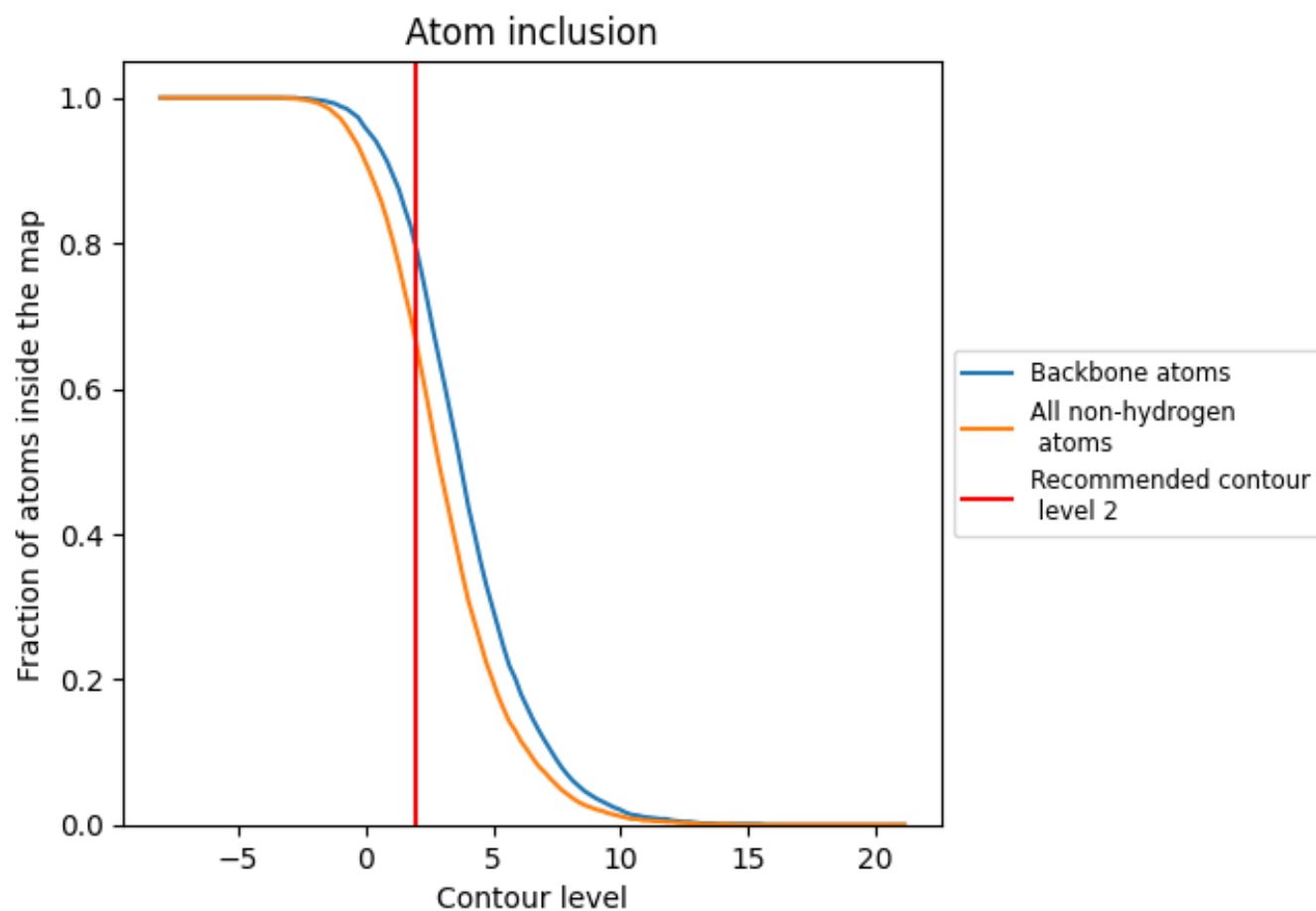
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 79% of all backbone atoms, 66% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6590	0.2840
A	0.6650	0.2390
B	0.6520	0.3280

