



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 15, 2026 – 03:36 AM UTC

PDB ID : 2BE5 / pdb_00002be5
Title : Crystal structure of the T. Thermophilus RNA polymerase holoenzyme in complex with inhibitor tagetitoxin
Authors : Vassylyev, D.G.; Svetlov, V.; Vassylyeva, M.N.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Artsimovitch, I.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2005-10-22
Resolution : 2.40 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

The following versions of software and data (see [references](#) ①) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

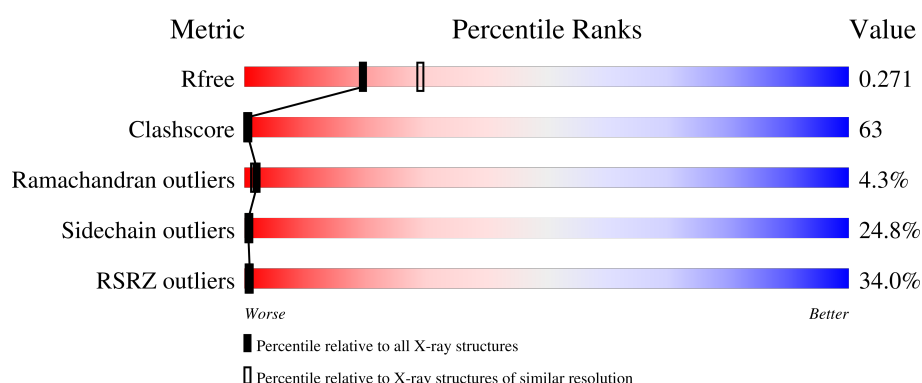
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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

Mol	Chain	Length	Quality of chain
1	A	315	17% 13% 44% 15% • 27%
1	B	315	29% 17% 44% 11% 27%
1	K	315	18% 18% 42% 12% 27%
1	L	315	27% 14% 45% 13% • 27%
2	C	1119	38% 21% 57% 20% •

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Mol	Chain	Length	Quality of chain
2	M	1119	39% 22% 56% 19%
3	D	1524	25% 19% 52% 18% 9%
3	N	1524	27% 21% 49% 20% 9%
4	E	99	28% 23% 51% 20%
4	O	99	29% 27% 45% 21%
5	F	423	36% 18% 48% 14% 18%
5	P	423	39% 21% 46% 15% 18%

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 61800 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	B	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	K	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	L	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			

- Molecule 2 is a protein called DNA-directed RNA polymerase beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			

- Molecule 3 is a protein called DNA-directed RNA polymerase beta' chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	33			

- Molecule 4 is a protein called RNA polymerase omega chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			
4	O	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			

- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			
5	P	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			

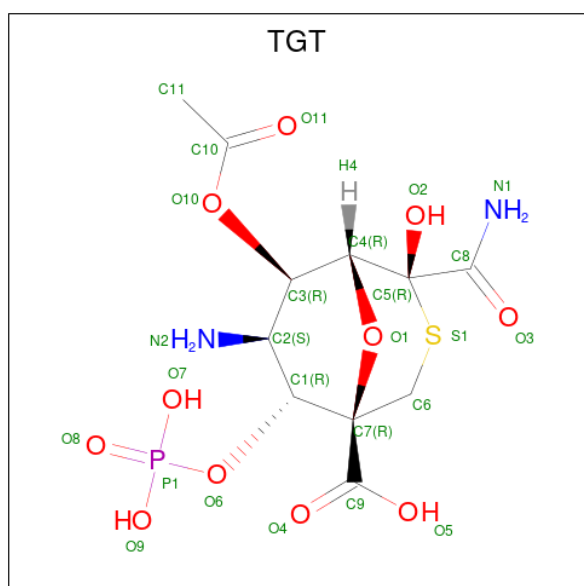
- Molecule 6 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	C	1	Total	Mg	0	0
			1	1		
6	D	1	Total	Mg	0	0
			1	1		
6	N	2	Total	Mg	0	0
			2	2		

- Molecule 7 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	2	Total	Zn	0	0
			2	2		
7	N	2	Total	Zn	0	0
			2	2		

- Molecule 8 is TAGETITOXIN (CCD ID: TGT) (formula: C₁₁H₁₇N₂O₁₁PS).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
8	D	1	Total	C	N	O	P	S	0	0
			26	11	2	11	1	1		
8	N	1	Total	C	N	O	P	S	0	0
			26	11	2	11	1	1		

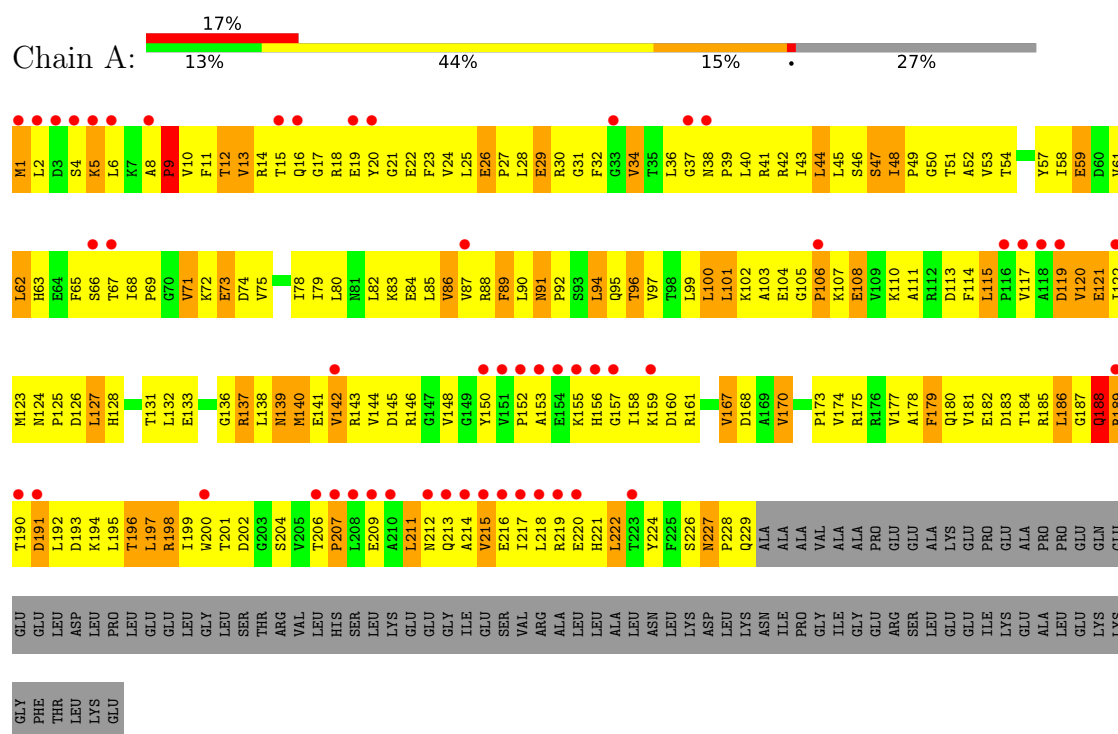
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	250	Total	O	0	0
			250	250		
9	B	329	Total	O	0	0
			329	329		
9	C	1321	Total	O	0	0
			1321	1321		
9	D	1655	Total	O	0	0
			1655	1655		
9	E	176	Total	O	0	0
			176	176		
9	F	519	Total	O	0	0
			519	519		
9	K	278	Total	O	0	0
			278	278		
9	L	309	Total	O	0	0
			309	309		
9	M	1236	Total	O	0	0
			1236	1236		
9	N	1552	Total	O	0	0
			1552	1552		
9	O	137	Total	O	0	0
			137	137		
9	P	422	Total	O	0	0
			422	422		

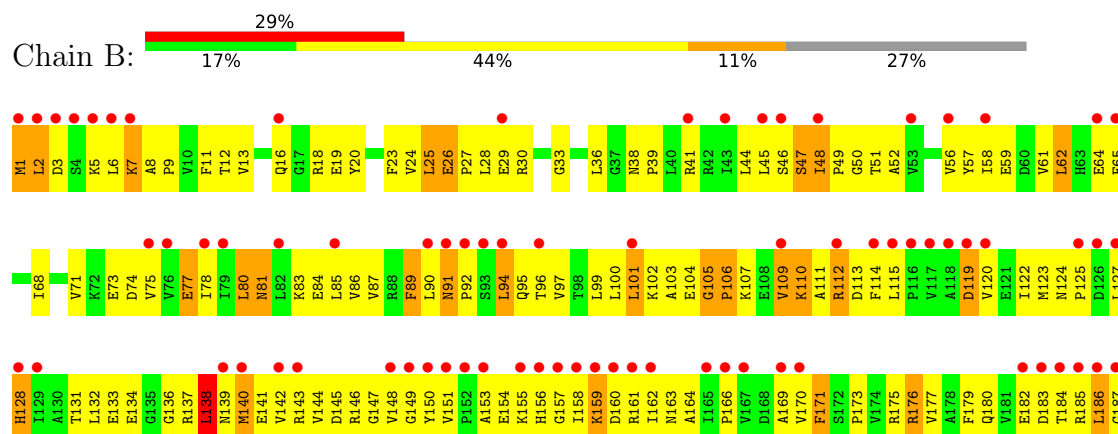
3 Residue-property plots

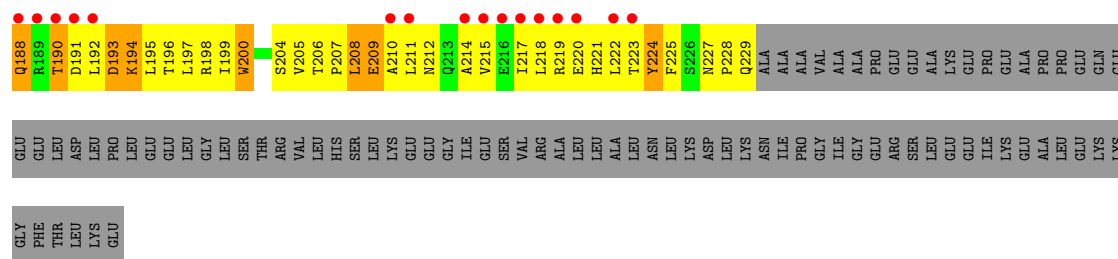
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: DNA-directed RNA polymerase alpha chain

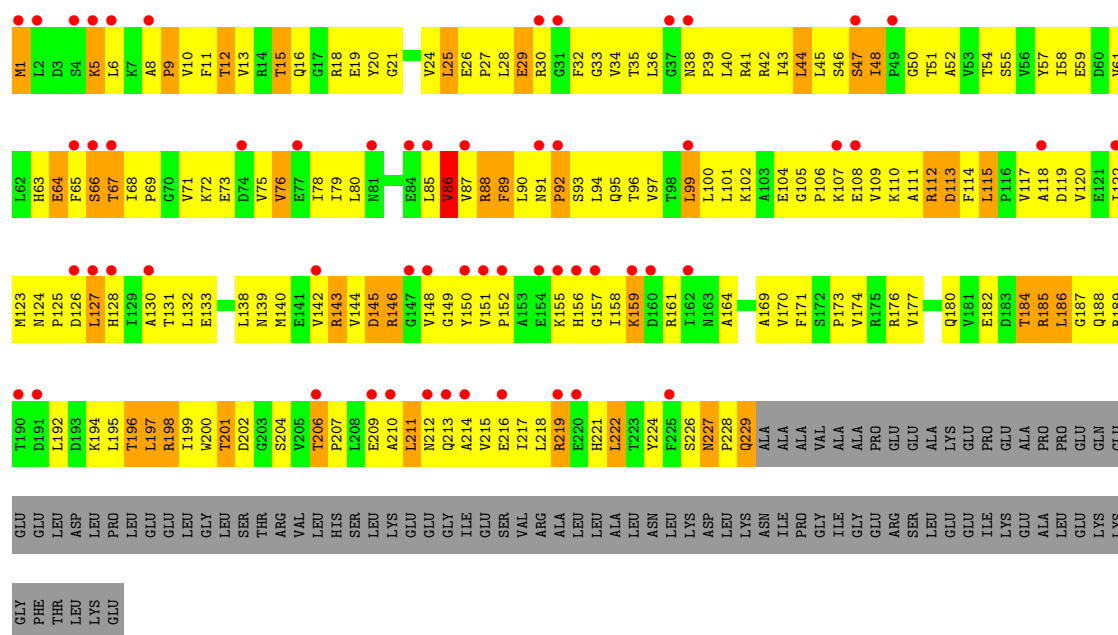
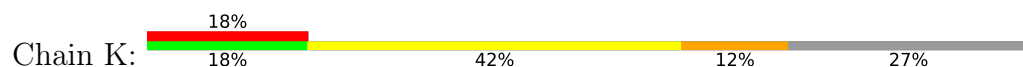


• Molecule 1: DNA-directed RNA polymerase alpha chain

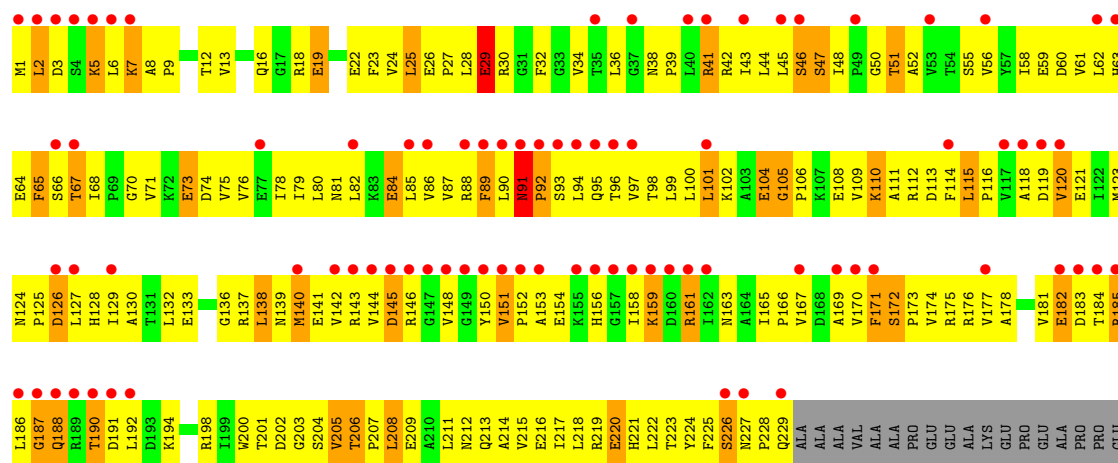
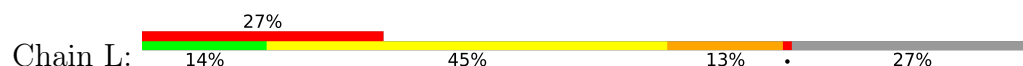




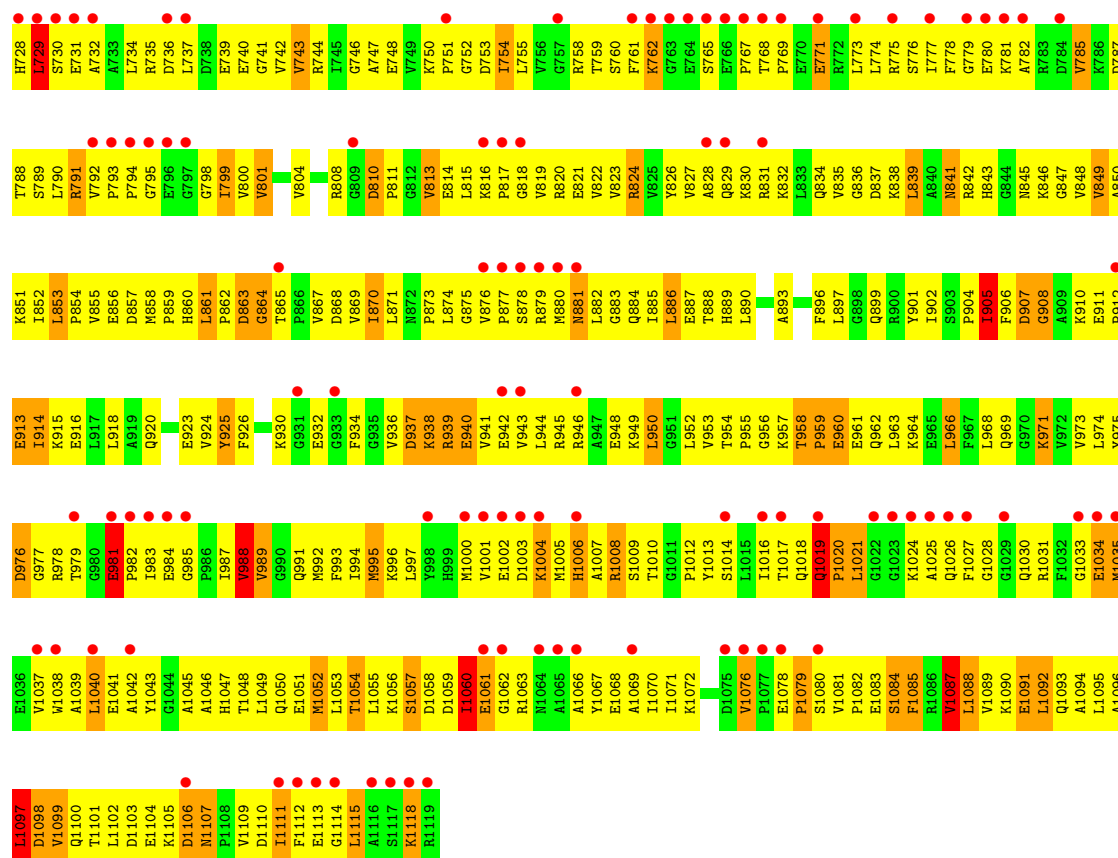
• Molecule 1: DNA-directed RNA polymerase alpha chain



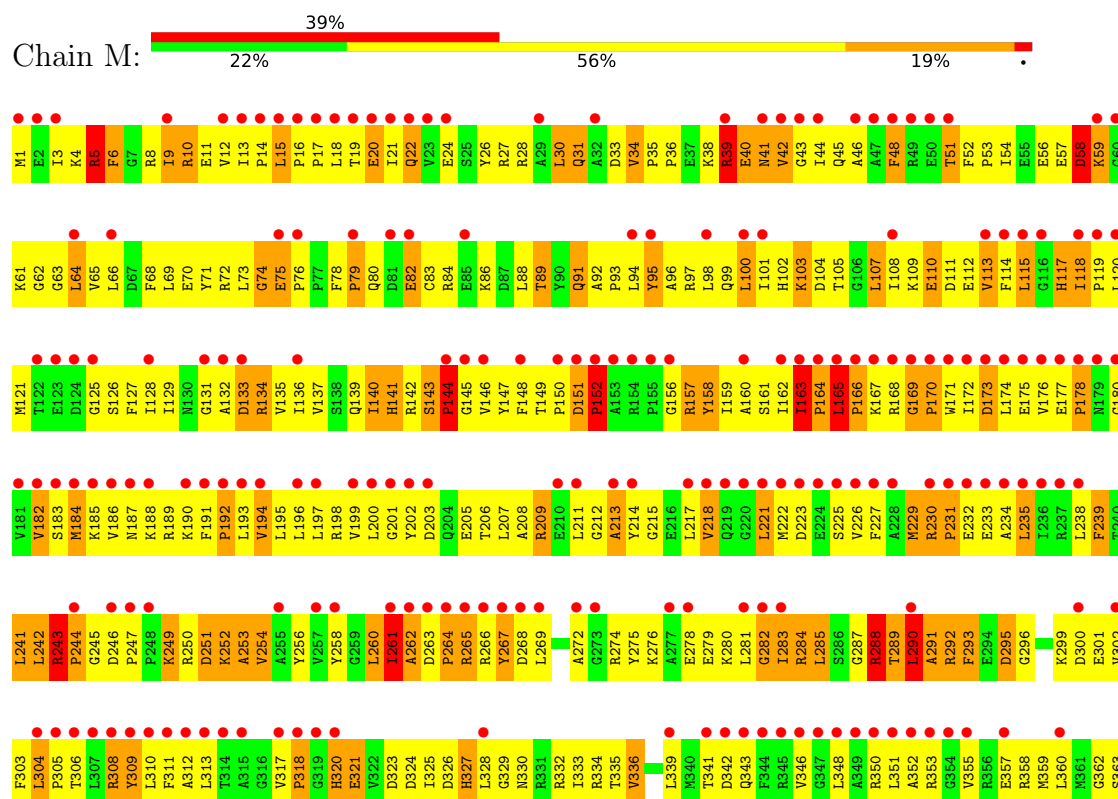
• Molecule 1: DNA-directed RNA polymerase alpha chain

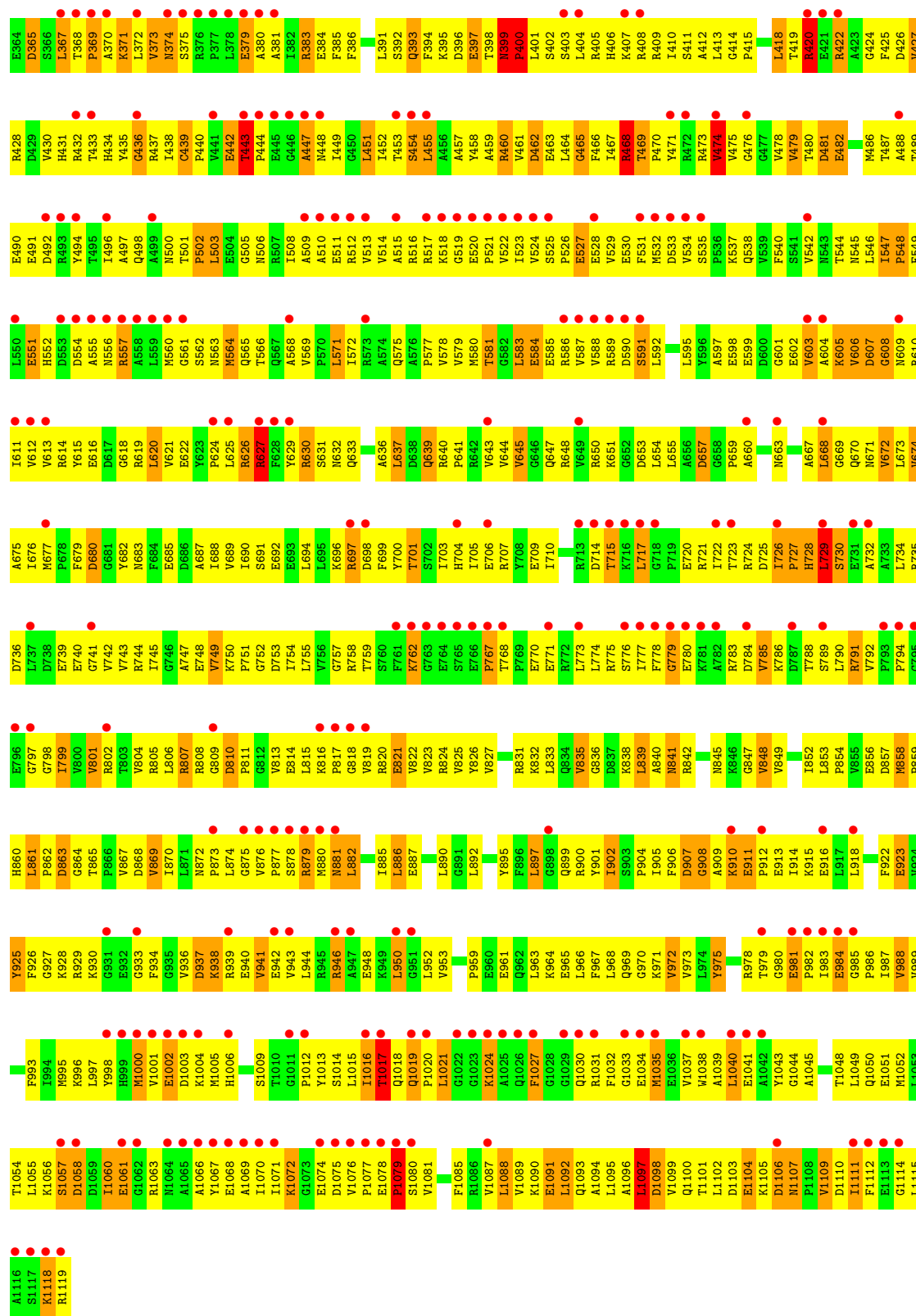




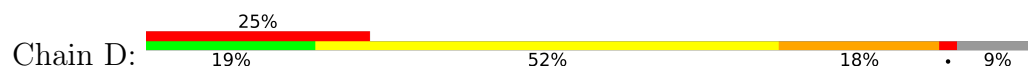


- Molecule 2: DNA-directed RNA polymerase beta chain

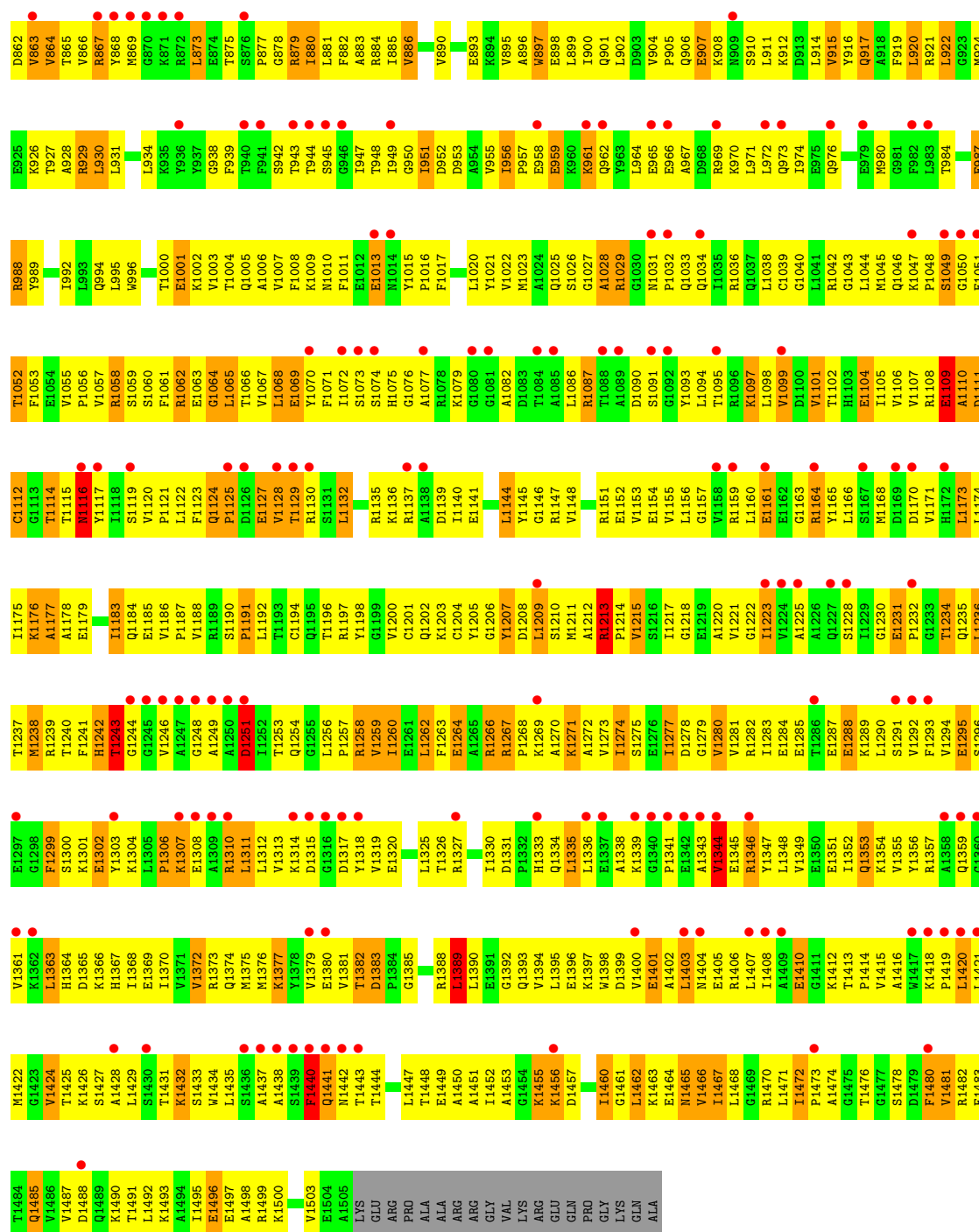




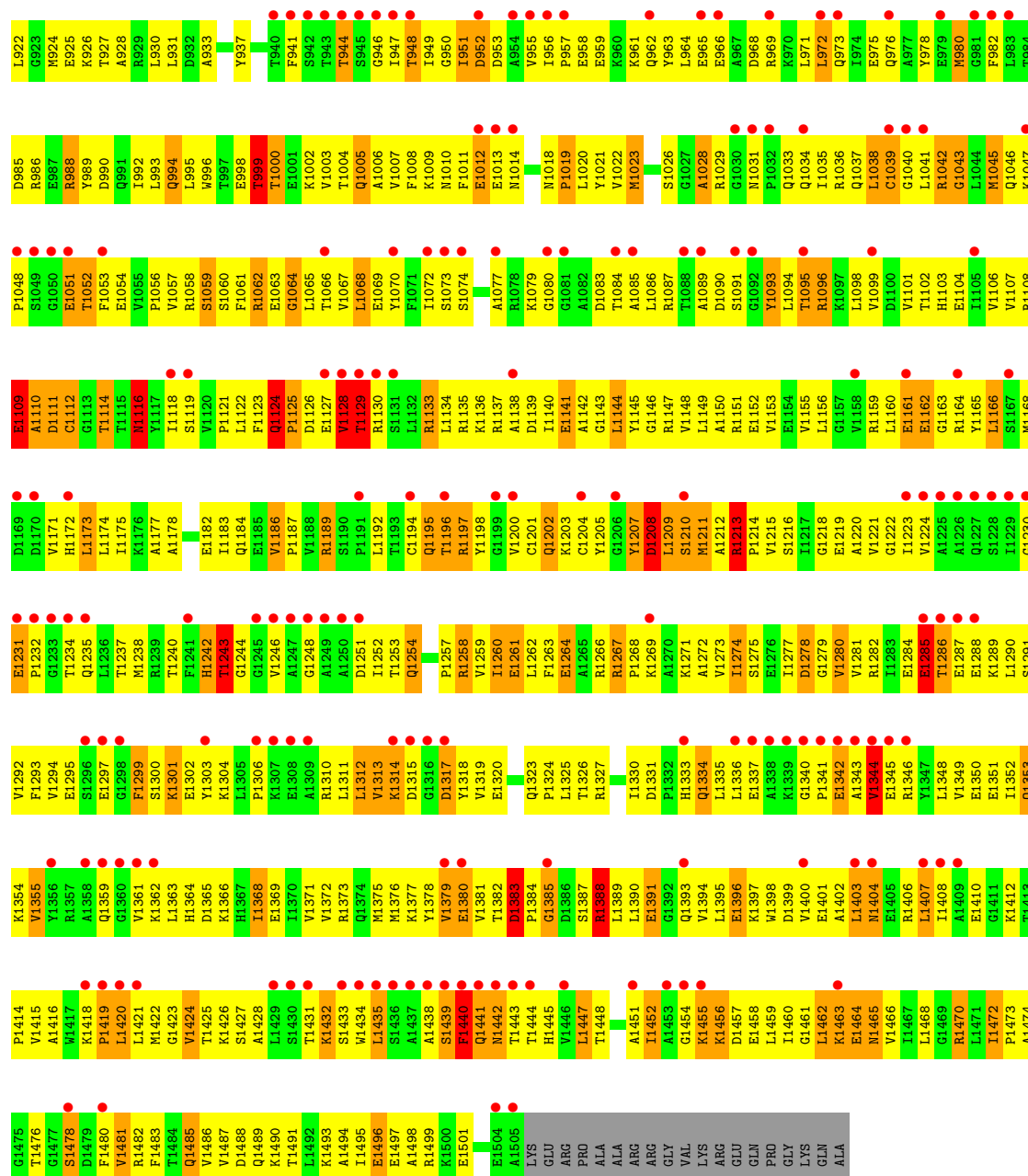
• Molecule 3: DNA-directed RNA polymerase beta' chain



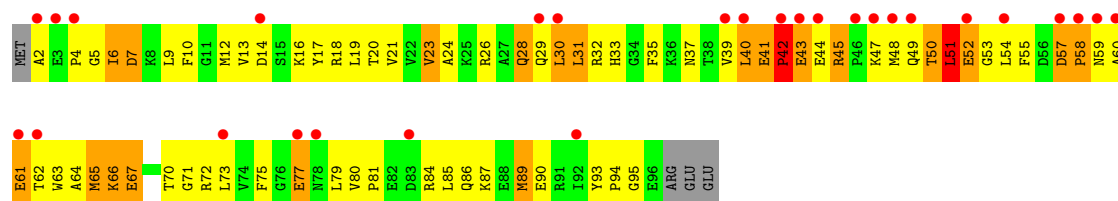
L802	F740	M676	F614	L554	R493	Y432	V368	LYS	P248	E184	E124	G61	MET
G803	D741	L677	R615	K555	K494	G453	A369	GLY	T249	V185	Q125	K62	K2
L804	G742	E678	Q616	K556	R495	R434	A370	LEU	L250	V186	L126	K63	K3
E805	D743	R679	N617	L557	R496	V435	P373	LEU	F251	K187	Y128	K64	E4
R806	G680	Q681	L618	L558	E497	E436	P374	MET		G188	F129	R65	V5
A807	L619	A559	Y498	L559	V499	V437	E374	PRO		Q189	S130	Q66	R6
T808	G620	Q560	V499	Q560	R500	D438	I378	ARG		E190	K131	R67	K7
P809	K621	G561	R500	G561	A501	D439	I378	ARG		L191	Y132	F68	V8
E810	R622	A562	A501	A562	F502	V440	E380	GLN		A192			R9
E811	V623	P563	F502	P563	R503	R441	E380	VAL		P193	I133	C73	A11
A812	D624	E564	L503	E564	D504	R442	A381	ARG		G194	V134	E74	L12
L813	Y625	I565	D504	I565	S505	V443	E382	ALA		V195	L135	R75	A12
A814	Y625	I565	S505	I565	G506	V444	E382	ALA		V196	D136	C76	L13
A815	G627	L567	G506	L567	R507	R445	V385	GLN		S197	P137		S14
E816	R628	R568	R507	R568	N507	V446	H386	VAL		K188	F138	G77	P15
R817	S629	N569	R508	N569	R508	V447	L387	GLU		L199	G139	G77	E16
R818	V630	K570	P509	K570	F509	E448	H388	ALA		D200	E79	E79	K17
R819	I631	E570	E510	E570	E510	S449	E389	LEU		G201	V80	V80	I18
E820	V632	R572	W511	R572	W511	D450	P390	GLU		Y202	T81	T81	R19
G821	V633	M573	W512	M573	W512	D451	A391	GLY		A203	K82	K82	S20
R822	G634	L574	L513	L574	L513	D452	S392	GLY		L204	S83	S83	W21
A823	P635	Q575	A516	Q575	A516	D453	I393	GLU		Y205	I84	I84	S22
W824	Q636	Q576	E576	Q576	E576	A454	L394	THR		R206	V85	V85	Y23
A825	L637	A577	W517	A577	W517	R455	V395	VAL		F207	R86	R86	G24
P826	K638	V578	W517	V578	W517	M456	V396	TYR		E148	R87	R87	E25
L827	L839	D579	W519	D579	W519		K397	LEU		K149	Y88	Y88	V26
R828	H640	A580	W520	A580	W520	E459	A398	THR		R210	R89	R89	E27
W829	Q641	L581	P521	L581	P521	A460	R399	LEU		Q151	M90	M90	K28
A830	P642	L582	P522	L582	P522	I461	V400	PHE		R212	G91	G91	P29
G831	Q643	D583	D523	Q643	D523	Q462	Y401	LEU		L152	H92	H92	E30
R832	L644	N584	L524	L644	N584	Q463	P402	GLU		E214	I93	I93	T31
E833	P645	G585	R525	G585	R525	L464	F403	TRP		D155	E94	E94	I32
L834	K646	R586	P526	K646	P526	L465	E404	THR		E156	L95	L95	N33
S835	R647	R587	W527	R647	W527	Q466	D405	GLU		E157	T97	T97	Y34
W836	M648	G588	V528	M648	V528	E467	D406	PRO		TYR	R35	R35	R35
R837	A649	A589	A529	A649	A529	L468	V407	LYS		R159	T36	T36	T36
R838	L650	P590	W530	L650	W530	D469	E408	ASP		E160	L37	L37	L37
L839	E651	V591	D531	E651	D531	L470	V409	TYR		L161	A99	A99	L37
R840	L652	T592	G532	L652	G532	E471	S410	ARG		R162	A100	A100	K38
W841	F653	N593	G533	F653	G533	A472	T411	VAL		Y163	I101	I101	P39
R842	K654	P594	R534	K654	P594	L473	G412	GLY		L225	I102	I102	E40
F843	P655	G595	F535	P655	F535	E474	D413	MET		K165	F104	F104	R41
A844	F656	S596	A536	F656	A536	K475	R414	THR		Q166	Y105	Y105	D42
W845	L657	D597	T537	L657	T537	E476	V415	HIS		E167	K106	K106	G43
F846	L658	R598	R538	F846	R538	L477	V416	MET		T168	D107	D107	L44
D847	R659	P599	D539	R659	D539	E478	A416	ASN		Y169	F45	F45	F45
W848	K660	L600	L540	K660	L540	E479	P417	VAL		W230	V108	V108	D46
L849	M661	S601	N541	L849	N541	E480	D419	VAL		P170	E47	E47	E47
R850	E662	R602	D542	R850	D542	M481	V420	PRO		E232	R48	R48	R48
L851	E663	L603	L543	L851	L543	K482	L421	GLY		L171	K111	K111	I49
W852	T604	T604	Y544	W852	Y544	H483	A422	GLY		P172	I112	I112	F50
R853	L666	D605	R545	R853	R545	P494	D423	ALA		G174	G51	G51	G51
A854	A667	I606	R546	A854	R546	G485	G424	ALA		V175	L115	L115	P52
R855	P668	L607	L547	R855	L547	R486	G425	ARG		A177	D116	D116	I53
G856	N669	S608	W548	G856	W548	R487	K426	VAL		V178	L118	L118	K54
W857	V670	G609	N549	W857	N549	R488	V427	GLU		W179	D55	D55	D55
V858	K671	K610	R550	V858	R550	R489	K428	PRO		K180	S119	S119	Y56
D859	A672	Q611	N551	D859	N551	A490	S429	LEU		D181	A120	A120	E57
L860	G612	G612	W552	L860	W552	K491	D430	ALA		E182	I121	I121	C58
Q861	R675	R613	R553	Q861	R553	A492	V431	ALA		E183	L123	L123	C60



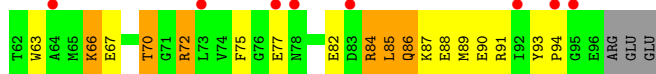
L860	E798	F736	N669	L607	I547	A487	G425	G364	LEU	E244	E184	L123	G61
Q861	K799	N737	V670	S608	I548	R488	K426	D365	ALA	L245	V185	E124	K62
D862	K800		K671	G609	N549	R489	V427	K366	GLU	E246	V186	Q126	F63
V863	G801	F740	A672	R550	R550	A490	K428	R367	ALA	E247	V187	K187	K64
T864	A802	D741	A673	N551	N551	K491	S429	V368	LYS	P248	Q188	L127	R65
T865	G803	G742	R674	G612	N552	A482	D430	A369	GLY	Y249	Q189	Y128	Q66
V866	L804	D743	R675	R613	R553	R493	V431	A370	LEU	L250	E190	F129	R67
R867	E805	F744	M676	F614	L554	K494	Y432	I371	LEU	F251	L191	S130	F68
V868	F806	M745	L677	R615	K555	K495	G433	D372	ARG		L192	K131	E69
H869	A807		E678	R616	K556	L496	R434	E374	MET	ALA	P193	Y132	G70
G870	T808	H748	R679	N617	L557	E497	V435	E375	PRO	GLU	G194	I133	K71
K871	R809	V749	Q680	L618	L558	V498	E436	E376	ARG	GLU	V195	V134	V72
E810	E810	P750	Q681	L619	A559	V499	V437	E376	GLN	GLU	V196	L135	C73
R872	E811	L751	D682	G620	R560	R500	D438	V377	VAL	GLY	S197	D136	E74
L873	A812		D683	G621	G561	A501	L439	I378	ARG	VAL	R198	P137	R75
E874	L813	S753	K684	R622	A562	F502	V440	A379	ALA	VAL	K138	K138	C76
S876		F754	D685	P623	P563	L503	R441	O380	ALA	GLU	D200	G139	G77
P877	A755	A755	E686	D624	E564	D504	M442	A381	ALA	LEU	G201	A140	V78
G878	Q756	Q756	V687	V625	I565	S505	V443	E382	VAL	LYS	V202	L141	E79
R879	A757	A757	V688		I566	G506	V444		GLU	GLU	A203	L142	R80
L880	E758	M763	D689	R628	R567	N507	R445	V385	ALA	LEU	A204	N143	T81
L881	V821	A759	A690	S629	R568	P508	V446	H386	GLU	GLU	Y205	G144	K82
F882	A822	R760		V630	N569	R509	V447	L387	GLU	GLU	R206	V145	S83
A883	L823	T631	E693	T631	E570	E510	E448	H388	GLU	GLY	F207	P146	T84
B884	B824	V632	I693	V632	K571	W511	E449	E389	GLY	ALA	P208	V147	V85
T885	A825	M763	I695	V633	R572	M512	Y450	P390	GLU	PHE	R209	E148	R86
V886	P826	L764	H696	G634	M573	I513	D451	A391	THR	LEU	R210	K149	R87
A887	I827	S765	G697	P635	L574	L514	I452	S392	VAL	VAL	V211	R150	Y88
E888	K828	A766	K698	Q636	Q575	E515	D453	I393	TYR	LEU	R212	Q151	R89
A889	R829	H767	V699	E637	E576	A516	A454	L394	LEU	ARG	R213	L152	M90
V890	A830	K638	V700	K638	A577	V517	R455	V395	THR	ARG	E214	L153	G91
E891	G831	L769	L701	L639	V578	P518	M456	V396	LEU	GLU	Y215	T154	H92
D892	R832	L770	L702	H640	D579	V519		K397	PHE	ASP	V216	D156	H93
K893	T834	S771	N703	G641	A580	L520	E459	A398	LEU	GLU	K217	E156	E94
V895	S835	A773	R704	C642	L581	P521	A460	R399	GLU	PRO	K218	E157	L95
A896	R836	S774	P706	G643	L582	P522	I461	V400	THR	VAL	E219	Y158	A96
V897	G837	G775	T707	P645	D583	D523	Q462	Y401	ALA	ALA	R220	R159	T97
E898	R838	E776	L708	R646	R585	R525	Q463	P402	GLU	THR	A221	E160	P98
L899	L839	F777	H709	R647	R586	P526	L465	F403	PRO	TYR	G222	L161	A99
Q901	Y841	A779	R710	A649	R587	M527	K466	D405	LYS	PHE	R223	R162	A100
L902	V842	L780	G712	L650	O588	V528	E467	D406	ASP	LEU	R224	Y163	H101
D903	F843	I713	I713	E651	A589	Q529	L468	E407	TYR	PRO	L225	G164	I102
V904	A844	S782	Q714	L652	P590	V530	D469	E408	ARG	VAL	P226	K165	F103
P905	R845	R783	A715	F653	V591	D531	L470	V409	GLN	GLY	L227	E167	F104
Q906	P846	D784	F716	K654	T592	G533	A472	T411	PRO	MET	A228	T168	V105
E907	D847	I785	Q717	P655	N593	R534	L473	D412	HIS	PRO	A229	Y169	D107
K908	E848	I786	P718	F656	P594	F535	E474	D413	MET	LEU	V231	P170	P109
N909	A849	L787	V719	L657	G595	A536	K475	R414	ASN	VAL	E232	L171	S110
S910	L850	G788	L720	L658	S596	A536	E476	V415	VAL	VAL	K233	P172	K111
L911	L851	L789		L659	D597	T537	L477	V416	VAL	HIS	E234	P173	K112
K912	A852	Y790	S725	K659	R598	S538	L478	A416	GLY	GLY	A235	D176	L116
	V853	Y791	I726	P599	P599	D539	L478	P417	PRO	GLU	Y236	A177	L117
V915	R854	I792	Q727	R601	L600	N541		G418	GLY	ILE	K237	D177	D118
Y916	H855	T793	L728	S602	G602	K482	K482	V420	VAL	VAL	P238	V178	L119
Q917	G856	Q794	H729	L603	R603	L543	H483	L421	ARG	LYS	E240	K180	S119
	I857	V795	T730	T604	L604	Y544	P484	A422	VAL	GLY	I241	D181	A120
L920	V858	R796	L731	D605	G605	R545	R486	D423	GLN	GLN	L242	E183	T121
R921	D859	K797		T606	T606	R546		G424	ALA	PRO	A243		E122



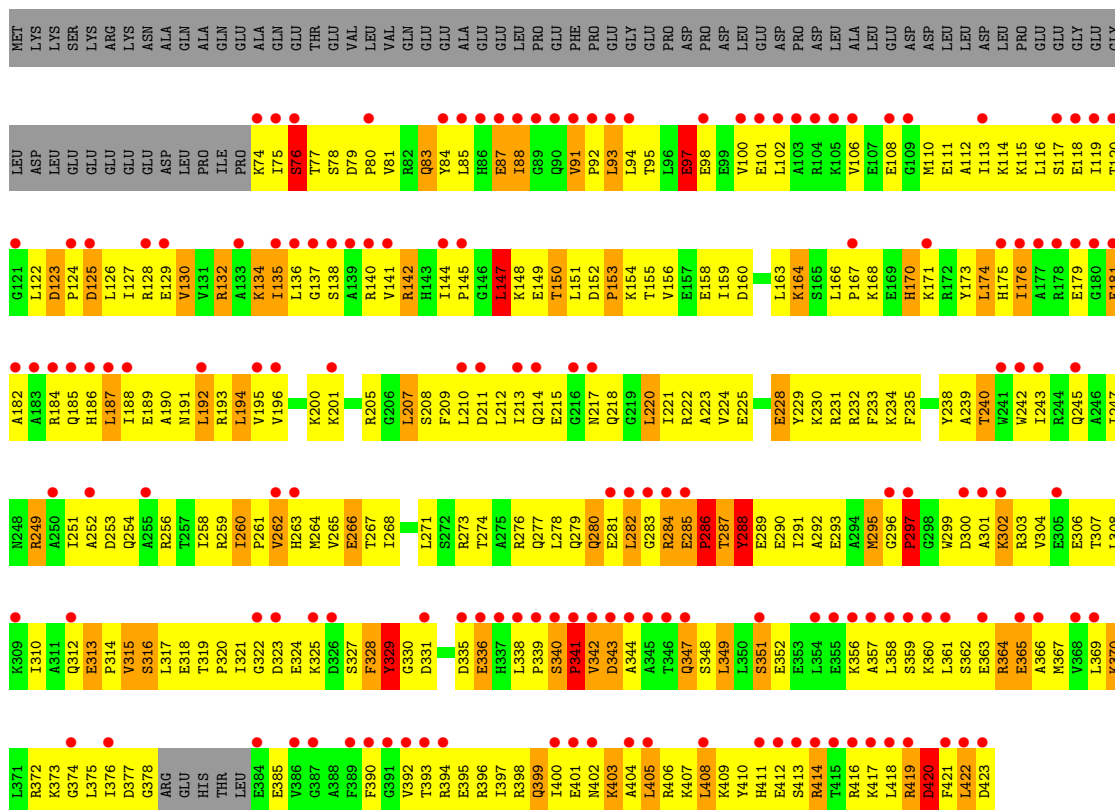
• Molecule 4: RNA polymerase omega chain



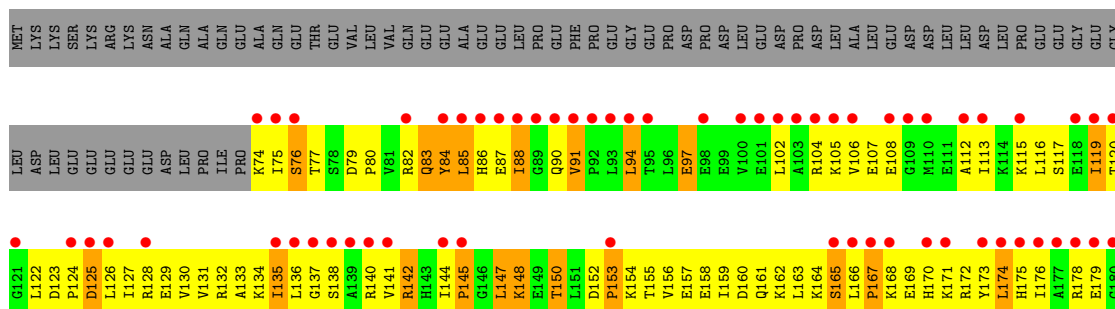
• Molecule 4: RNA polymerase omega chain

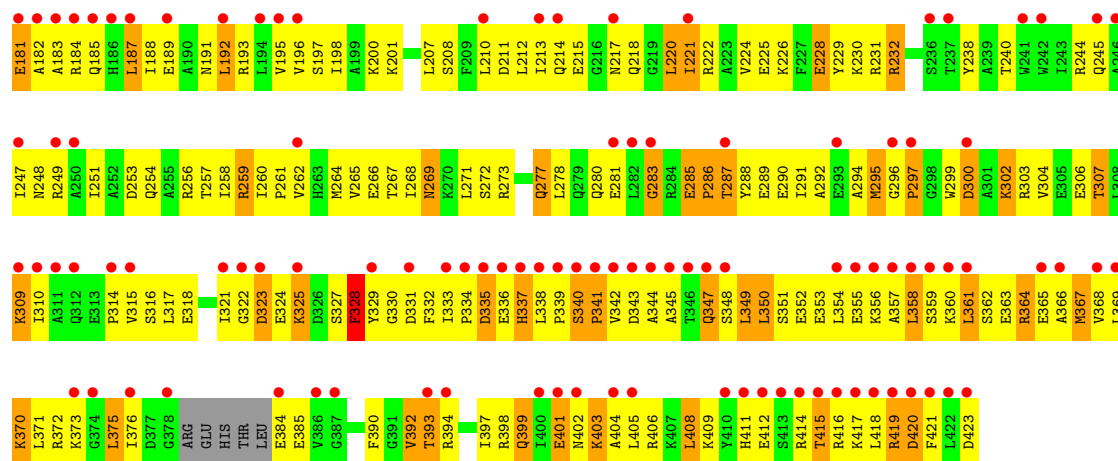


Chain F:



Chain P:





4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.40 25.00 – 2.40	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.40) 95.2 (25.00-2.40)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.65 (at 2.39Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.237 , 0.274 0.234 , 0.271	Depositor DCC
R_{free} test set	34795 reflections (5.75%)	wwPDB-VP
Wilson B-factor (Å ²)	33.7	Xtriage
Anisotropy	0.106	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	-0.43 , 436.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.065 for h,-h-k,-l 0.065 for -k,-h,-l	Xtriage
Reported twinning fraction	0.500 for H, K, L 0.500 for -h,-k,l	Depositor
Outliers	0 of 604645 reflections	Xtriage
F_o, F_c correlation	0.79	EDS
Total number of atoms	61800	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.81% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.80	1/1838 (0.1%)	1.16	10/2498 (0.4%)
1	B	0.73	0/1838	1.07	9/2498 (0.4%)
1	K	0.78	1/1838 (0.1%)	1.10	5/2498 (0.2%)
1	L	0.76	2/1838 (0.1%)	1.05	8/2498 (0.3%)
2	C	0.87	8/8997 (0.1%)	1.27	84/12164 (0.7%)
2	M	0.85	4/8997 (0.0%)	1.27	86/12164 (0.7%)
3	D	0.88	7/10975 (0.1%)	1.31	101/14836 (0.7%)
3	N	0.88	11/10975 (0.1%)	1.33	99/14836 (0.7%)
4	E	0.90	1/783 (0.1%)	1.32	9/1054 (0.9%)
4	O	0.85	0/783	1.33	9/1054 (0.9%)
5	F	0.77	2/2812 (0.1%)	1.17	13/3781 (0.3%)
5	P	0.77	1/2812 (0.0%)	1.17	15/3781 (0.4%)
All	All	0.85	38/54486 (0.1%)	1.26	448/73662 (0.6%)

All (38) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	13	ALA	CA-CB	-8.12	1.42	1.53
3	N	172	PRO	CA-C	7.77	1.56	1.51
2	C	163	ILE	CA-CB	7.67	1.62	1.53
1	L	171	PHE	CA-C	-7.27	1.42	1.52
4	E	65	MET	SD-CE	6.86	1.96	1.79
3	N	1124	GLN	CA-C	6.50	1.59	1.52
2	C	474	VAL	CA-CB	6.39	1.63	1.54
3	N	498	VAL	CA-CB	6.39	1.61	1.54
3	D	126	VAL	CA-CB	6.39	1.61	1.54
2	C	468	ARG	CA-C	-6.38	1.44	1.52
3	D	1177	ALA	CA-CB	-6.34	1.43	1.53
3	N	83	SER	N-CA	-6.33	1.38	1.46
2	M	163	ILE	CA-CB	6.31	1.60	1.53
3	N	1023	MET	SD-CE	-6.29	1.63	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	P	135	ILE	CA-CB	6.27	1.62	1.54
2	C	191	PHE	CA-C	6.26	1.59	1.52
3	N	126	VAL	CA-CB	6.22	1.61	1.54
2	M	469	THR	N-CA	6.20	1.52	1.46
2	C	1060	ILE	CA-CB	6.14	1.60	1.54
3	N	1114	THR	CA-CB	6.10	1.60	1.53
3	N	207	PHE	CA-C	5.77	1.59	1.52
3	D	498	VAL	CA-CB	5.76	1.61	1.54
5	F	144	ILE	CA-CB	5.69	1.61	1.54
3	D	798	GLU	CA-C	5.62	1.56	1.52
2	C	19	THR	N-CA	5.61	1.52	1.46
1	K	86	VAL	CA-CB	5.46	1.61	1.54
1	A	48	ILE	CA-C	5.43	1.58	1.52
3	D	145	VAL	CA-CB	5.41	1.61	1.54
3	N	1379	VAL	CA-C	5.39	1.58	1.52
2	C	1087	VAL	CA-CB	5.36	1.61	1.54
3	D	207	PHE	CA-C	5.35	1.59	1.52
2	C	988	VAL	CA-CB	5.35	1.61	1.54
3	N	999	THR	CA-CB	5.20	1.61	1.53
2	M	474	VAL	CA-CB	5.18	1.61	1.54
1	L	172	SER	N-CA	-5.13	1.38	1.46
3	D	1114	THR	CA-CB	5.05	1.59	1.53
2	M	880	MET	SD-CE	5.02	1.92	1.79
5	F	135	ILE	CA-CB	5.00	1.60	1.54

All (448) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	508	ARG	CA-C-N	18.62	138.06	119.82
3	N	508	ARG	C-N-CA	18.62	138.06	119.82
3	N	1124	GLN	CA-C-N	16.64	140.64	119.84
3	N	1124	GLN	C-N-CA	16.64	140.64	119.84
3	N	207	PHE	CA-C-N	16.44	140.39	119.84
3	N	207	PHE	C-N-CA	16.44	140.39	119.84
3	D	207	PHE	CA-C-N	16.10	139.97	119.84
3	D	207	PHE	C-N-CA	16.10	139.97	119.84
2	C	177	GLU	CA-C-N	14.22	137.62	119.84
2	C	177	GLU	C-N-CA	14.22	137.62	119.84
3	D	508	ARG	CA-C-N	14.21	137.60	119.84
3	D	508	ARG	C-N-CA	14.21	137.60	119.84
2	M	177	GLU	CA-C-N	14.08	137.44	119.84
2	M	177	GLU	C-N-CA	14.08	137.44	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1124	GLN	CA-C-N	12.07	132.56	119.28
3	D	1124	GLN	C-N-CA	12.07	132.56	119.28
2	M	6	PHE	N-CA-C	11.84	124.17	111.03
2	C	6	PHE	N-CA-C	11.75	123.83	111.14
3	N	171	LEU	CA-C-N	11.66	128.17	119.66
3	N	171	LEU	C-N-CA	11.66	128.17	119.66
3	N	423	ASP	N-CA-C	10.95	124.25	111.11
1	A	48	ILE	CA-C-N	10.32	132.74	119.84
1	A	48	ILE	C-N-CA	10.32	132.74	119.84
5	F	296	GLY	CA-C-N	9.96	132.29	119.84
5	F	296	GLY	C-N-CA	9.96	132.29	119.84
2	C	726	ILE	CA-C-N	9.90	132.21	119.84
2	C	726	ILE	C-N-CA	9.90	132.21	119.84
4	O	49	GLN	N-CA-C	9.27	123.90	112.59
3	D	1209	LEU	N-CA-C	-9.22	95.46	109.94
2	M	726	ILE	CA-C-N	9.19	131.32	119.84
2	M	726	ILE	C-N-CA	9.19	131.32	119.84
3	N	186	VAL	N-CA-C	9.18	119.99	111.45
2	M	443	THR	CA-C-N	9.17	129.53	119.90
2	M	443	THR	C-N-CA	9.17	129.53	119.90
2	C	443	THR	CA-C-N	9.17	129.52	119.90
2	C	443	THR	C-N-CA	9.17	129.52	119.90
5	P	296	GLY	CA-C-N	9.01	131.11	119.84
5	P	296	GLY	C-N-CA	9.01	131.11	119.84
2	C	260	LEU	N-CA-C	9.01	122.87	111.24
3	N	1209	LEU	N-CA-C	-9.01	95.80	109.94
3	D	186	VAL	N-CA-C	8.97	119.79	111.45
3	N	80	VAL	N-CA-C	8.96	121.81	108.46
3	D	561	GLY	CA-C-N	-8.93	112.17	122.52
3	D	561	GLY	C-N-CA	-8.93	112.17	122.52
5	F	91	VAL	CA-C-N	-8.91	111.57	120.31
5	F	91	VAL	C-N-CA	-8.91	111.57	120.31
1	B	105	GLY	CA-C-N	8.85	130.91	119.84
1	B	105	GLY	C-N-CA	8.85	130.91	119.84
3	N	561	GLY	CA-C-N	-8.79	112.32	122.52
3	N	561	GLY	C-N-CA	-8.79	112.32	122.52
2	M	260	LEU	N-CA-C	8.77	122.55	111.24
1	K	105	GLY	CA-C-N	8.74	130.77	119.84
1	K	105	GLY	C-N-CA	8.74	130.77	119.84
3	N	705	ALA	CA-C-N	-8.69	108.97	119.84
3	N	705	ALA	C-N-CA	-8.69	108.97	119.84
3	D	172	PRO	CA-C-N	8.67	130.68	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	172	PRO	C-N-CA	8.67	130.68	119.84
2	C	728	HIS	N-CA-C	8.59	123.86	113.12
5	P	91	VAL	CA-C-N	-8.59	111.89	120.31
5	P	91	VAL	C-N-CA	-8.59	111.89	120.31
3	D	80	VAL	N-CA-C	8.52	122.75	108.86
3	N	199	LEU	N-CA-C	8.50	123.52	112.12
1	A	105	GLY	CA-C-N	8.48	130.44	119.84
1	A	105	GLY	C-N-CA	8.48	130.44	119.84
1	L	105	GLY	CA-C-N	8.45	130.40	119.84
1	L	105	GLY	C-N-CA	8.45	130.40	119.84
3	D	81	THR	N-CA-C	-8.36	97.07	108.86
3	N	172	PRO	CA-C-N	8.33	130.26	119.84
3	N	172	PRO	C-N-CA	8.33	130.26	119.84
2	M	728	HIS	N-CA-C	8.28	123.47	113.12
2	C	243	ARG	CA-C-N	8.26	130.16	119.84
2	C	243	ARG	C-N-CA	8.26	130.16	119.84
3	N	187	LYS	N-CA-C	8.24	119.89	111.07
4	E	49	GLN	N-CA-C	8.23	123.49	112.88
3	D	171	LEU	CA-C-N	8.21	128.84	120.38
3	D	171	LEU	C-N-CA	8.21	128.84	120.38
1	B	171	PHE	N-CA-C	8.17	121.64	112.97
3	D	1383	ASP	CA-C-N	8.17	128.66	119.92
3	D	1383	ASP	C-N-CA	8.17	128.66	119.92
2	C	729	LEU	N-CA-C	8.16	124.04	113.18
3	D	705	ALA	CA-C-N	-8.14	109.66	119.84
3	D	705	ALA	C-N-CA	-8.14	109.66	119.84
2	M	39	ARG	N-CA-C	8.13	120.22	111.36
3	N	1383	ASP	CA-C-N	8.09	129.17	120.11
3	N	1383	ASP	C-N-CA	8.09	129.17	120.11
2	C	264	PRO	CA-C-N	-8.05	109.95	122.59
2	C	264	PRO	C-N-CA	-8.05	109.95	122.59
3	N	81	THR	N-CA-C	-8.02	97.18	109.14
3	D	423	ASP	N-CA-C	8.00	124.50	111.37
3	D	199	LEU	N-CA-C	8.00	122.83	112.12
3	D	634	GLY	CA-C-N	7.96	129.78	119.84
3	D	634	GLY	C-N-CA	7.96	129.78	119.84
2	M	230	ARG	CA-C-N	7.91	129.72	119.84
2	M	230	ARG	C-N-CA	7.91	129.72	119.84
2	M	762	LYS	N-CA-C	7.83	119.51	110.97
2	C	1078	GLU	CA-C-N	7.80	129.59	119.84
2	C	1078	GLU	C-N-CA	7.80	129.59	119.84
2	C	230	ARG	CA-C-N	7.79	129.57	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	230	ARG	C-N-CA	7.79	129.57	119.84
5	P	76	SER	N-CA-C	7.75	119.36	111.07
3	D	187	LYS	N-CA-C	7.74	119.41	110.97
2	M	1078	GLU	CA-C-N	7.73	129.50	119.84
2	M	1078	GLU	C-N-CA	7.73	129.50	119.84
5	F	76	SER	N-CA-C	7.73	119.34	111.07
2	M	243	ARG	CA-C-N	7.72	129.49	119.84
2	M	243	ARG	C-N-CA	7.72	129.49	119.84
2	C	39	ARG	N-CA-C	7.70	119.67	111.28
2	C	535	SER	N-CA-C	7.67	115.12	108.22
3	D	805	GLU	N-CA-C	7.66	121.09	112.97
2	M	317	VAL	CA-C-N	-7.57	111.17	119.19
2	M	317	VAL	C-N-CA	-7.57	111.17	119.19
3	N	805	GLU	N-CA-C	7.50	120.92	112.97
3	D	218	LYS	N-CA-C	7.45	120.41	110.88
2	M	547	ILE	CA-C-N	7.40	129.09	119.84
2	M	547	ILE	C-N-CA	7.40	129.09	119.84
2	C	317	VAL	CA-C-N	-7.40	111.35	119.19
2	C	317	VAL	C-N-CA	-7.40	111.35	119.19
3	N	198	ARG	N-CA-C	7.38	122.47	113.17
2	M	264	PRO	CA-C-N	-7.35	110.46	122.81
2	M	264	PRO	C-N-CA	-7.35	110.46	122.81
3	N	209	ARG	N-CA-C	7.34	126.43	110.80
2	C	762	LYS	N-CA-C	7.32	118.94	110.97
3	D	198	ARG	CA-C-N	-7.31	110.91	122.17
3	D	198	ARG	C-N-CA	-7.31	110.91	122.17
3	D	1110	ALA	N-CA-C	-7.24	98.01	109.23
3	N	198	ARG	CA-C-N	-7.24	111.03	122.17
3	N	198	ARG	C-N-CA	-7.24	111.03	122.17
3	N	634	GLY	CA-C-N	7.23	128.88	119.84
3	N	634	GLY	C-N-CA	7.23	128.88	119.84
3	D	517	VAL	N-CA-C	7.20	114.11	107.56
3	D	198	ARG	N-CA-C	7.17	122.21	113.17
3	D	209	ARG	N-CA-C	7.14	126.02	110.80
3	N	380	GLU	N-CA-C	-7.14	96.92	109.06
3	N	51	GLY	CA-C-N	7.12	126.88	119.76
3	N	51	GLY	C-N-CA	7.12	126.88	119.76
1	L	226	SER	N-CA-C	7.08	118.89	111.03
3	N	1128	VAL	N-CA-C	-7.04	98.22	108.71
2	C	399	ASN	CA-C-N	7.03	128.63	119.84
2	C	399	ASN	C-N-CA	7.03	128.63	119.84
3	D	448	GLU	N-CA-C	7.00	122.11	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1213	ARG	CA-C-N	-6.98	113.51	120.21
3	N	1213	ARG	C-N-CA	-6.98	113.51	120.21
2	M	165	LEU	C-N-CD	-6.96	105.28	120.60
2	C	591	SER	N-CA-C	-6.95	101.57	110.53
3	D	1127	GLU	N-CA-C	-6.94	102.04	112.04
3	N	218	LYS	N-CA-C	6.92	118.74	110.44
2	M	58	ASP	CA-C-N	6.91	134.74	121.54
2	M	58	ASP	C-N-CA	6.91	134.74	121.54
2	C	58	ASP	CA-C-N	6.89	134.71	121.54
2	C	58	ASP	C-N-CA	6.89	134.71	121.54
4	E	41	GLU	CA-C-N	6.88	128.44	119.84
4	E	41	GLU	C-N-CA	6.88	128.44	119.84
3	D	380	GLU	N-CA-C	-6.84	97.43	109.06
2	C	163	ILE	N-CA-C	6.82	114.30	107.55
3	N	1110	ALA	N-CA-C	-6.79	98.70	109.23
2	C	169	GLY	CA-C-N	6.76	128.29	119.84
2	C	169	GLY	C-N-CA	6.76	128.29	119.84
3	N	448	GLU	N-CA-C	6.76	121.82	113.50
3	N	798	GLU	N-CA-C	6.75	121.28	111.02
2	C	261	ILE	N-CA-C	6.73	123.34	109.34
2	C	547	ILE	CA-C-N	6.72	128.25	119.84
2	C	547	ILE	C-N-CA	6.72	128.25	119.84
3	N	1127	GLU	N-CA-C	-6.69	102.41	112.04
3	N	1109	GLU	N-CA-C	6.68	117.06	108.24
3	N	1251	ASP	N-CA-C	6.67	119.54	111.40
5	P	285	GLU	CA-C-N	6.63	128.13	119.84
5	P	285	GLU	C-N-CA	6.63	128.13	119.84
5	P	340	SER	CA-C-N	6.61	128.10	119.84
5	P	340	SER	C-N-CA	6.61	128.10	119.84
2	C	265	ARG	N-CA-C	6.57	119.71	109.52
2	C	754	ILE	CB-CA-C	-6.57	104.13	111.23
2	M	729	LEU	N-CA-C	6.54	124.74	110.80
5	F	287	THR	N-CA-C	-6.51	101.93	110.53
3	D	798	GLU	N-CA-C	6.51	120.91	111.02
2	M	261	ILE	N-CA-C	6.49	122.84	109.34
3	D	1109	GLU	CA-C-N	6.46	132.95	122.29
3	D	1109	GLU	C-N-CA	6.46	132.95	122.29
2	C	5	ARG	CA-C-N	6.46	129.23	120.44
2	C	5	ARG	C-N-CA	6.46	129.23	120.44
5	F	340	SER	CA-C-N	6.44	127.89	119.84
5	F	340	SER	C-N-CA	6.44	127.89	119.84
2	C	143	SER	CA-C-N	6.44	127.89	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	143	SER	C-N-CA	6.44	127.89	119.84
1	K	48	ILE	CA-C-N	6.43	126.95	120.14
1	K	48	ILE	C-N-CA	6.43	126.95	120.14
2	M	1027	PHE	N-CA-C	6.42	119.97	111.75
3	N	1109	GLU	CA-C-N	6.39	132.83	122.29
3	N	1109	GLU	C-N-CA	6.39	132.83	122.29
2	C	191	PHE	CA-C-N	6.37	126.34	119.78
2	C	191	PHE	C-N-CA	6.37	126.34	119.78
1	B	138	LEU	CA-CB-CG	6.36	138.56	116.30
3	D	1213	ARG	CA-C-N	-6.36	114.11	120.21
3	D	1213	ARG	C-N-CA	-6.36	114.11	120.21
2	C	1027	PHE	N-CA-C	6.34	119.86	111.75
3	N	82	LYS	CA-C-N	-6.33	111.38	121.44
3	N	82	LYS	C-N-CA	-6.33	111.38	121.44
2	M	938	LYS	N-CA-C	-6.33	104.48	111.82
5	P	328	PHE	CA-C-N	6.31	130.29	120.82
5	P	328	PHE	C-N-CA	6.31	130.29	120.82
2	M	165	LEU	CA-C-N	6.30	142.12	127.00
2	M	165	LEU	C-N-CA	6.30	142.12	127.00
4	E	51	LEU	N-CA-C	-6.29	99.30	107.73
2	C	165	LEU	CA-C-N	6.29	142.09	127.00
2	C	165	LEU	C-N-CA	6.29	142.09	127.00
3	D	1128	VAL	N-CA-C	-6.28	99.23	108.97
3	D	238	PRO	N-CA-CB	6.28	109.84	103.25
3	D	1317	ASP	CA-C-N	6.27	130.22	120.75
3	D	1317	ASP	C-N-CA	6.27	130.22	120.75
5	P	287	THR	N-CA-C	-6.26	102.27	110.53
3	D	950	GLY	CA-C-O	-6.26	115.78	121.47
2	M	169	GLY	CA-C-N	6.26	127.66	119.84
2	M	169	GLY	C-N-CA	6.26	127.66	119.84
2	M	5	ARG	CA-C-N	6.25	129.13	120.63
2	M	5	ARG	C-N-CA	6.25	129.13	120.63
2	C	414	GLY	CA-C-N	6.24	127.64	119.84
2	C	414	GLY	C-N-CA	6.24	127.64	119.84
3	D	811	GLU	N-CA-C	-6.24	105.63	113.18
2	M	265	ARG	N-CA-C	6.24	119.72	109.85
2	M	591	SER	N-CA-C	-6.24	102.47	110.53
2	M	422	ARG	N-CA-C	6.22	117.94	111.03
4	E	41	GLU	N-CA-C	6.20	120.66	112.35
3	D	593	ASN	CA-C-N	6.19	127.57	119.84
3	D	593	ASN	C-N-CA	6.19	127.57	119.84
3	D	225	LEU	CA-C-N	6.17	125.87	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	225	LEU	C-N-CA	6.17	125.87	119.82
3	D	1109	GLU	N-CA-C	6.17	116.71	108.38
4	O	41	GLU	CA-C-N	6.17	127.55	119.84
4	O	41	GLU	C-N-CA	6.17	127.55	119.84
3	D	1043	GLY	CA-C-N	-6.15	114.33	123.00
3	D	1043	GLY	C-N-CA	-6.15	114.33	123.00
5	F	323	ASP	N-CA-C	-6.15	100.74	109.96
1	A	59	GLU	N-CA-C	6.14	118.06	111.36
3	N	593	ASN	CA-C-N	6.14	127.52	119.84
3	N	593	ASN	C-N-CA	6.14	127.52	119.84
3	N	238	PRO	N-CA-CB	6.13	109.69	103.25
5	F	285	GLU	CA-C-N	6.13	127.50	119.84
5	F	285	GLU	C-N-CA	6.13	127.50	119.84
3	D	1285	GLU	N-CA-C	6.13	120.89	113.41
3	N	143	ASN	N-CA-C	-6.11	106.16	113.97
3	D	1440	PHE	N-CA-C	6.10	120.29	111.02
2	M	163	ILE	N-CA-C	6.08	114.11	107.60
3	N	248	PRO	N-CA-CB	6.08	109.57	102.76
3	N	1285	GLU	N-CA-C	6.08	120.82	113.41
2	C	151	ASP	CA-C-N	6.07	127.43	119.84
2	C	151	ASP	C-N-CA	6.07	127.43	119.84
4	O	51	LEU	N-CA-C	-6.07	99.60	107.73
5	P	283	GLY	N-CA-C	-6.06	107.30	115.36
3	N	199	LEU	CA-CB-CG	-6.05	95.11	116.30
3	N	373	PRO	N-CA-CB	6.05	109.60	103.25
2	M	318	PRO	N-CA-C	-6.04	105.66	113.57
5	P	323	ASP	N-CA-C	-6.03	100.91	109.96
3	N	225	LEU	CA-C-N	6.03	125.73	119.82
3	N	225	LEU	C-N-CA	6.03	125.73	119.82
2	C	365	ASP	N-CA-C	6.02	118.81	111.82
3	D	525	ARG	CA-C-N	6.02	127.36	119.84
3	D	525	ARG	C-N-CA	6.02	127.36	119.84
3	D	226	PRO	N-CA-CB	6.01	109.23	103.52
2	M	151	ASP	CA-C-N	6.01	127.36	119.84
2	M	151	ASP	C-N-CA	6.01	127.36	119.84
3	N	108	VAL	CA-C-N	-6.01	112.33	119.84
3	N	108	VAL	C-N-CA	-6.01	112.33	119.84
1	A	48	ILE	N-CA-C	6.00	115.56	108.96
2	M	754	ILE	CB-CA-C	-6.00	104.75	111.23
2	C	981	GLU	CA-C-N	-5.99	114.39	120.85
2	C	981	GLU	C-N-CA	-5.99	114.39	120.85
3	N	517	VAL	N-CA-C	5.97	113.79	107.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	811	GLU	N-CA-C	-5.96	105.97	113.18
2	M	283	ILE	CB-CA-C	-5.95	104.78	111.80
3	N	1043	GLY	CA-C-N	-5.95	114.39	122.77
3	N	1043	GLY	C-N-CA	-5.95	114.39	122.77
3	N	1440	PHE	N-CA-C	5.93	120.04	111.02
2	C	938	LYS	N-CA-C	-5.93	104.94	111.82
2	C	165	LEU	C-N-CD	-5.92	107.57	120.60
3	D	1344	VAL	CB-CA-C	-5.91	104.41	111.97
3	D	208	PRO	CA-C-N	5.91	132.82	121.54
3	D	208	PRO	C-N-CA	5.91	132.82	121.54
3	D	1116	ASN	N-CA-C	-5.90	99.28	108.90
3	D	248	PRO	N-CA-CB	5.88	109.35	102.76
3	D	1472	ILE	CA-C-N	5.88	125.56	119.56
3	D	1472	ILE	C-N-CA	5.88	125.56	119.56
2	C	318	PRO	N-CA-C	-5.85	105.91	113.57
2	M	399	ASN	CA-C-N	5.85	127.15	119.84
2	M	399	ASN	C-N-CA	5.85	127.15	119.84
3	N	1317	ASP	CA-C-N	5.84	129.57	120.75
3	N	1317	ASP	C-N-CA	5.84	129.57	120.75
3	D	108	VAL	CA-C-N	-5.84	112.54	119.84
3	D	108	VAL	C-N-CA	-5.84	112.54	119.84
5	F	283	GLY	N-CA-C	-5.84	107.18	115.30
2	M	58	ASP	N-CA-C	5.81	118.97	108.69
2	C	1057	SER	CA-C-N	-5.79	113.16	122.24
2	C	1057	SER	C-N-CA	-5.79	113.16	122.24
2	M	365	ASP	N-CA-C	5.79	118.53	111.82
3	N	486	ARG	N-CA-C	5.78	118.36	111.71
3	D	81	THR	CA-C-O	-5.78	114.98	121.40
2	C	810	ASP	CA-C-N	5.75	127.03	119.84
2	C	810	ASP	C-N-CA	5.75	127.03	119.84
4	E	50	THR	CA-C-N	5.74	133.23	122.84
4	E	50	THR	C-N-CA	5.74	133.23	122.84
3	N	226	PRO	N-CA-CB	5.74	108.97	103.52
3	N	1116	ASN	N-CA-C	-5.73	99.56	108.90
4	E	57	ASP	CA-C-N	-5.72	112.69	119.84
4	E	57	ASP	C-N-CA	-5.72	112.69	119.84
4	O	50	THR	CA-C-N	5.72	133.19	122.84
4	O	50	THR	C-N-CA	5.72	133.19	122.84
2	M	414	GLY	CA-C-N	5.71	126.98	119.84
2	M	414	GLY	C-N-CA	5.71	126.98	119.84
2	M	981	GLU	CA-C-N	-5.71	114.69	120.85
2	M	981	GLU	C-N-CA	-5.71	114.69	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	47	SER	N-CA-C	5.70	118.70	111.69
2	C	373	VAL	N-CA-C	5.70	116.80	108.53
3	D	208	PRO	CA-N-CD	-5.70	104.03	112.00
2	M	318	PRO	CA-C-N	5.69	131.72	120.84
2	M	318	PRO	C-N-CA	5.69	131.72	120.84
2	C	58	ASP	N-CA-C	5.67	118.72	108.69
3	N	162	ARG	N-CA-C	5.67	118.19	111.33
2	C	422	ARG	N-CA-C	5.66	117.31	111.03
3	N	468	LEU	N-CA-C	5.65	117.90	109.59
3	N	81	THR	CA-C-O	-5.64	115.19	121.51
3	D	162	ARG	N-CA-C	5.64	118.16	111.33
4	O	41	GLU	N-CA-C	5.64	120.42	112.75
2	M	253	ALA	N-CA-C	5.64	117.29	111.03
1	B	2	LEU	N-CA-C	5.63	119.93	112.72
2	C	18	LEU	CA-C-O	-5.63	114.88	120.90
3	N	133	ILE	N-CA-C	5.63	116.84	109.58
3	N	1126	ASP	N-CA-C	5.63	118.33	109.39
2	M	1118	LYS	N-CA-C	5.62	119.40	109.96
2	C	18	LEU	N-CA-C	5.62	117.85	111.11
2	M	1019	GLN	CA-C-N	5.62	126.86	119.84
2	M	1019	GLN	C-N-CA	5.62	126.86	119.84
3	D	143	ASN	N-CA-C	-5.62	106.78	113.97
3	N	592	THR	N-CA-C	-5.60	103.14	110.53
2	M	1104	GLU	N-CA-C	-5.59	104.88	110.97
3	N	208	PRO	CA-N-CD	-5.59	104.17	112.00
2	C	1019	GLN	CA-C-N	5.57	126.81	119.84
2	C	1019	GLN	C-N-CA	5.57	126.81	119.84
3	D	133	ILE	N-CA-C	5.57	116.77	109.58
3	N	525	ARG	CA-C-N	5.57	126.80	119.84
3	N	525	ARG	C-N-CA	5.57	126.80	119.84
3	D	564	GLU	N-CA-C	5.54	117.78	111.02
2	M	373	VAL	N-CA-C	5.53	116.54	108.53
3	N	589	ALA	CA-C-N	5.52	125.47	119.78
3	N	589	ALA	C-N-CA	5.52	125.47	119.78
2	M	557	ARG	NE-CZ-NH2	5.52	124.17	119.20
3	D	589	ALA	CA-C-N	5.51	125.45	119.78
3	D	589	ALA	C-N-CA	5.51	125.45	119.78
3	D	373	PRO	N-CA-CB	5.50	109.02	103.25
2	C	318	PRO	CA-C-N	5.50	131.34	120.84
2	C	318	PRO	C-N-CA	5.50	131.34	120.84
1	A	91	ASN	N-CA-C	5.49	114.62	108.25
3	D	1251	ASP	N-CA-C	5.49	119.94	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	91	ASN	N-CA-C	5.47	114.60	108.25
2	M	608	GLY	N-CA-C	-5.47	106.27	115.62
2	C	398	THR	N-CA-C	-5.45	105.34	111.28
2	M	284	ARG	N-CA-C	5.45	118.46	109.85
3	D	136	ASP	CA-C-N	-5.45	113.03	119.84
3	D	136	ASP	C-N-CA	-5.45	113.03	119.84
3	D	80	VAL	CA-C-N	5.43	131.28	122.53
3	D	80	VAL	C-N-CA	5.43	131.28	122.53
2	C	1118	LYS	N-CA-C	5.43	119.08	109.96
1	L	2	LEU	N-CA-C	5.41	119.65	112.72
3	N	1208	ASP	N-CA-C	5.41	122.32	110.80
1	K	47	SER	N-CA-C	5.41	118.34	111.69
3	N	172	PRO	N-CA-C	5.39	115.64	110.47
1	L	91	ASN	CA-C-N	5.38	126.57	119.84
1	L	91	ASN	C-N-CA	5.38	126.57	119.84
3	N	208	PRO	CA-C-N	5.38	131.82	121.54
3	N	208	PRO	C-N-CA	5.38	131.82	121.54
5	P	88	ILE	CB-CA-C	-5.37	104.81	112.22
3	D	406	ASP	N-CA-C	5.34	119.50	113.15
3	N	1125	PRO	N-CA-C	5.33	123.46	112.47
3	N	246	PRO	N-CA-CB	5.33	108.85	103.25
2	C	34	VAL	CA-C-N	5.33	125.87	120.38
2	C	34	VAL	C-N-CA	5.33	125.87	120.38
2	C	243	ARG	N-CA-C	5.32	121.57	109.81
3	D	1125	PRO	CA-C-N	-5.32	111.38	121.54
3	D	1125	PRO	C-N-CA	-5.32	111.38	121.54
2	M	728	HIS	CA-C-N	-5.32	111.39	121.54
2	M	728	HIS	C-N-CA	-5.32	111.39	121.54
3	D	468	LEU	N-CA-C	5.31	117.40	109.59
3	D	199	LEU	CA-CB-CG	-5.31	97.72	116.30
2	M	728	HIS	CA-C-O	-5.31	113.35	119.78
2	M	730	SER	N-CA-C	5.29	117.12	109.07
3	D	379	ALA	CA-C-N	5.29	131.47	122.37
3	D	379	ALA	C-N-CA	5.29	131.47	122.37
2	M	936	VAL	N-CA-C	5.29	116.20	108.53
2	M	1110	ASP	N-CA-C	5.29	117.01	108.34
2	M	243	ARG	N-CA-C	5.28	121.48	109.81
2	C	253	ALA	N-CA-C	5.28	116.89	111.03
3	N	406	ASP	N-CA-C	5.27	119.42	113.15
3	D	246	PRO	N-CA-CB	5.25	108.77	103.25
4	O	57	ASP	CA-C-N	-5.25	113.27	119.84
4	O	57	ASP	C-N-CA	-5.25	113.27	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	91	ASN	CA-C-N	5.24	126.39	119.84
1	A	91	ASN	C-N-CA	5.24	126.39	119.84
2	M	1057	SER	CA-C-N	-5.23	114.03	122.24
2	M	1057	SER	C-N-CA	-5.23	114.03	122.24
3	N	80	VAL	CA-C-N	5.21	130.71	122.36
3	N	80	VAL	C-N-CA	5.21	130.71	122.36
1	B	47	SER	N-CA-C	5.21	118.10	111.69
2	M	810	ASP	CA-C-N	5.21	126.36	119.84
2	M	810	ASP	C-N-CA	5.21	126.36	119.84
2	C	32	ALA	N-CA-C	5.21	116.95	111.28
1	L	59	GLU	N-CA-C	5.21	117.03	111.36
2	C	1110	ASP	N-CA-C	5.19	116.86	108.34
3	N	1472	ILE	CA-C-N	5.19	124.99	119.28
3	N	1472	ILE	C-N-CA	5.19	124.99	119.28
2	M	141	HIS	N-CA-C	5.18	115.18	107.88
3	N	79	GLU	CA-C-N	-5.18	115.74	122.94
3	N	79	GLU	C-N-CA	-5.18	115.74	122.94
2	C	936	VAL	N-CA-C	5.17	116.03	108.53
2	M	442	GLU	N-CA-C	5.17	119.06	112.34
3	D	79	GLU	CA-C-N	-5.16	114.49	122.69
3	D	79	GLU	C-N-CA	-5.16	114.49	122.69
2	M	1017	THR	CA-C-N	-5.14	114.91	122.83
2	M	1017	THR	C-N-CA	-5.14	114.91	122.83
2	M	291	ALA	N-CA-C	5.13	117.78	109.06
3	D	396	VAL	N-CA-C	5.13	116.63	109.55
1	B	91	ASN	CA-C-N	5.11	126.23	119.84
1	B	91	ASN	C-N-CA	5.11	126.23	119.84
3	D	565	ILE	CB-CA-C	-5.11	105.34	111.88
2	M	879	ARG	CA-C-N	-5.11	115.37	123.24
2	M	879	ARG	C-N-CA	-5.11	115.37	123.24
2	C	7	GLY	N-CA-C	5.11	119.66	111.64
3	N	1242	HIS	CA-C-N	5.10	131.28	121.54
3	N	1242	HIS	C-N-CA	5.10	131.28	121.54
2	C	730	SER	N-CA-C	5.09	116.81	109.07
3	D	21	TRP	CA-CB-CG	5.08	123.26	113.60
1	L	47	SER	N-CA-C	5.08	117.94	111.69
3	D	247	GLU	N-CA-C	5.07	121.02	109.81
2	M	863	ASP	N-CA-C	-5.07	102.78	110.28
5	F	88	ILE	CB-CA-C	-5.06	105.24	112.22
2	M	468	ARG	CA-C-O	-5.06	114.90	121.73
3	D	1069	GLU	N-CA-C	-5.05	105.77	112.34
2	C	728	HIS	CA-C-O	-5.05	113.67	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	291	ALA	N-CA-C	5.05	117.64	109.06
3	D	1242	HIS	CA-C-N	5.05	131.18	121.54
3	D	1242	HIS	C-N-CA	5.05	131.18	121.54
3	N	422	ALA	CA-C-N	5.04	127.35	120.54
3	N	422	ALA	C-N-CA	5.04	127.35	120.54
3	D	824	ASN	N-CA-C	5.04	117.55	111.40
2	C	258	TYR	N-CA-C	-5.04	106.98	112.72
2	M	858	MET	CB-CG-SD	-5.04	97.59	112.70
3	N	1344	VAL	CB-CA-C	-5.03	105.53	111.97
2	C	608	GLY	N-CA-C	-5.02	107.04	115.62
3	N	378	ILE	N-CA-C	5.02	119.78	109.34
2	C	141	HIS	N-CA-C	5.02	114.95	107.88
3	D	378	ILE	N-CA-C	5.01	119.76	109.34
2	M	213	ALA	N-CA-C	-5.00	105.91	111.36

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	233	0
1	B	1806	0	1861	222	0
1	K	1806	0	1861	200	0
1	L	1806	0	1861	220	0
2	C	8829	0	8933	1274	0
2	M	8829	0	8933	1163	0
3	D	10797	0	10873	1517	0
3	N	10797	0	10873	1438	0
4	E	769	0	775	104	0
4	O	769	0	775	102	0
5	F	2771	0	2844	357	0
5	P	2771	0	2844	350	0
6	C	1	0	0	0	0
6	D	1	0	0	0	0
6	N	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	26	0	15	3	0
8	N	26	0	14	1	0
9	A	250	0	0	46	0
9	B	329	0	0	67	0
9	C	1321	0	0	268	0
9	D	1655	0	0	329	0
9	E	176	0	0	33	0
9	F	519	0	0	104	0
9	K	278	0	0	42	0
9	L	309	0	0	70	0
9	M	1236	0	0	260	0
9	N	1552	0	0	306	0
9	O	137	0	0	25	0
9	P	422	0	0	85	0
All	All	61800	0	54323	6768	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 63.

All (6768) 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)
2:M:409:ARG:HA	2:M:454:SER:HA	1.20	1.15
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.33	1.10
3:N:567:ILE:HG22	3:N:571:LYS:HZ1	1.11	1.08
3:D:119:SER:HB2	3:D:123:LEU:H	1.23	1.04
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.41	1.02
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.43	1.01
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.39	1.00
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.43	1.00
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.25	0.99
2:C:979:THR:HG23	2:C:981:GLU:H	1.26	0.99
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.44	0.99
3:N:1096:ARG:HH11	3:N:1096:ARG:HB2	1.24	0.99
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.45	0.98
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.26	0.97
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.43	0.97
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.45	0.96
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.01	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.45	0.96
3:D:540:LEU:HD21	3:D:603:LEU:HD21	1.47	0.96
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.47	0.95
3:D:9:ARG:HH12	3:D:506:GLY:HA2	1.31	0.95
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.30	0.94
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.49	0.94
1:L:1:MET:HG2	1:L:5:LYS:HB3	1.49	0.94
2:C:724:ARG:HG3	2:C:741:GLY:H	1.30	0.94
3:N:871:LYS:HE2	3:N:873:LEU:HD21	1.48	0.94
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.48	0.94
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.48	0.93
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.50	0.93
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.50	0.93
2:C:768:THR:HB	2:C:771:GLU:HB3	1.51	0.93
3:N:671:LYS:HZ3	3:N:675:ARG:HE	1.12	0.93
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.34	0.93
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.51	0.93
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.52	0.92
3:D:52:PRO:HG2	3:D:80:VAL:HG13	1.49	0.92
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.52	0.92
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.51	0.92
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.52	0.92
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.50	0.92
5:F:363:GLU:HA	5:F:367:MET:HE3	1.51	0.91
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.69	0.91
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.50	0.91
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.51	0.91
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.48	0.91
2:C:328:LEU:HD13	2:C:433:THR:HB	1.52	0.91
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.35	0.91
2:M:762:LYS:HA	2:M:786:LYS:HD2	1.50	0.91
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.50	0.91
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.51	0.91
3:N:835:SER:H	3:N:838:ARG:HH21	1.10	0.91
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.35	0.91
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.53	0.90
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.54	0.90
5:P:76:SER:O	5:P:80:PRO:HD2	1.71	0.90
2:C:54:ILE:HD11	2:C:356:ARG:HG3	1.54	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.52	0.89
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.53	0.89
1:A:14:ARG:NH2	1:A:22:GLU:HB3	1.87	0.89
2:M:8:ARG:HD2	2:M:10:ARG:HH22	1.38	0.89
3:D:1310:ARG:H	3:D:1310:ARG:HD3	1.37	0.89
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.54	0.89
3:D:65:ARG:HG3	3:D:66:GLN:H	1.38	0.89
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.52	0.89
3:D:527:MET:HE2	5:F:258:ILE:HD11	1.55	0.89
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.55	0.89
2:C:1087:VAL:HG11	3:D:613:ARG:HH21	1.38	0.89
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.54	0.88
3:D:141:ILE:HD13	3:D:450:TYR:HB2	1.52	0.88
3:N:73:CYS:HB3	3:N:76:CYS:O	1.74	0.88
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.36	0.88
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.55	0.88
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.56	0.88
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.55	0.88
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.55	0.87
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.56	0.87
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.56	0.87
3:D:1045:MET:HE2	3:D:1076:GLY:HA3	1.55	0.87
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.37	0.87
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.55	0.87
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.55	0.86
1:K:24:VAL:HG22	1:K:196:THR:HB	1.54	0.86
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.58	0.86
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.41	0.86
1:B:77:GLU:HB3	9:B:380:HOH:O	1.76	0.86
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.55	0.86
3:D:1026:SER:HA	9:D:9142:HOH:O	1.76	0.86
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.38	0.86
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.57	0.86
2:M:486:MET:HE3	2:M:491:GLU:HA	1.58	0.86
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.55	0.86
2:M:411:SER:HA	2:M:452:ILE:HA	1.54	0.86
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.58	0.86
3:D:1223:ILE:H	3:D:1223:ILE:HD12	1.40	0.85
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.41	0.85
5:P:355:GLU:HA	5:P:358:LEU:HD23	1.58	0.85
5:P:375:LEU:HG	5:P:376:ILE:HG13	1.57	0.85
3:D:796:ARG:HG3	3:D:828:LYS:HD2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:32:PHE:HB2	9:L:1714:HOH:O	1.75	0.85
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.58	0.85
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.57	0.85
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.58	0.85
3:N:695:ILE:HA	9:N:9171:HOH:O	1.77	0.85
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.55	0.85
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.59	0.85
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.58	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.58	0.85
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.57	0.85
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.59	0.85
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.58	0.85
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.59	0.85
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.41	0.85
3:N:194:GLY:H	3:N:206:ARG:HA	1.41	0.85
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.59	0.85
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.58	0.85
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.58	0.85
2:M:409:ARG:HA	2:M:454:SER:CA	2.07	0.84
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.42	0.84
3:D:194:GLY:H	3:D:206:ARG:HA	1.41	0.84
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.42	0.84
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.59	0.84
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.58	0.84
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.57	0.84
5:P:161:GLN:HA	5:P:164:LYS:HD2	1.59	0.84
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.74	0.84
3:D:141:ILE:HG12	3:D:449:SER:HA	1.58	0.84
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.60	0.84
3:N:783:ARG:HD2	3:N:1029:ARG:HG2	1.59	0.84
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.60	0.83
3:N:422:ALA:H	3:N:427:VAL:HG11	1.43	0.83
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.60	0.83
3:D:178:LEU:HD21	9:D:2576:HOH:O	1.76	0.83
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.60	0.83
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.59	0.83
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.58	0.83
2:M:10:ARG:HH11	2:M:10:ARG:HA	1.42	0.83
1:B:179:PHE:HB3	1:B:197:LEU:HG	1.61	0.83
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	1.93	0.83
4:O:13:VAL:HG21	4:O:19:LEU:HB2	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.59	0.83
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.59	0.83
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.61	0.83
3:N:865:THR:HG23	3:N:874:GLU:HG2	1.60	0.83
2:C:890:LEU:HA	2:C:914:ILE:HD11	1.60	0.82
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.61	0.82
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.61	0.82
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.42	0.82
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.59	0.82
3:N:898:GLU:HB3	3:N:921:ARG:HH22	1.44	0.82
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.59	0.82
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.60	0.82
3:N:513:ILE:HA	9:N:9341:HOH:O	1.79	0.82
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.61	0.82
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.62	0.82
5:P:411:HIS:HA	5:P:414:ARG:HG3	1.62	0.82
2:C:1115:LEU:HA	3:D:89:ARG:HH21	1.43	0.82
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.61	0.82
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.45	0.82
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.61	0.82
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.61	0.82
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.61	0.82
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.61	0.82
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.60	0.82
3:N:59:ALA:HA	9:N:2106:HOH:O	1.79	0.82
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.61	0.82
5:P:120:THR:HB	9:P:756:HOH:O	1.79	0.81
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.62	0.81
5:P:358:LEU:HD13	5:P:370:LYS:HE3	1.61	0.81
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.63	0.81
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.62	0.81
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.62	0.81
3:N:14:SER:H	3:N:17:LYS:NZ	1.79	0.81
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.44	0.81
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.62	0.81
1:L:158:ILE:HB	9:L:3186:HOH:O	1.79	0.81
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.62	0.81
3:N:567:ILE:HG22	3:N:571:LYS:NZ	1.95	0.81
2:C:186:VAL:HG23	2:C:187:ASN:H	1.45	0.81
2:C:861:LEU:HD23	2:C:862:PRO:HD2	1.61	0.81
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.80	0.81
2:C:626:ARG:H	2:C:639:GLN:HE21	1.26	0.81
3:D:971:LEU:HA	3:D:974:ILE:HD12	1.62	0.81
5:F:76:SER:O	5:F:80:PRO:HD2	1.80	0.81
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.46	0.81
2:M:537:LYS:HG3	2:M:545:ASN:HD21	1.46	0.81
1:B:123:MET:HE3	1:B:204:SER:HA	1.63	0.80
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.45	0.80
4:E:39:VAL:HB	4:E:72:ARG:HD2	1.63	0.80
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.63	0.80
2:C:432:ARG:HH11	3:D:1048:PRO:HD2	1.46	0.80
2:C:731:GLU:HA	2:C:734:LEU:HD12	1.63	0.80
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.46	0.80
2:M:30:LEU:HB3	2:M:44:ILE:HD12	1.61	0.80
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.63	0.80
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.62	0.80
3:D:1422:MET:HE3	3:D:1426:LYS:HG2	1.62	0.80
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.63	0.80
2:C:565:GLN:HG2	2:C:995:MET:HE1	1.63	0.80
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.63	0.80
3:N:527:MET:HE2	5:P:258:ILE:HD11	1.61	0.80
2:C:588:VAL:HB	9:C:9552:HOH:O	1.81	0.80
3:D:73:CYS:HB3	3:D:76:CYS:O	1.81	0.80
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.61	0.80
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.62	0.80
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.63	0.80
3:N:493:ARG:HH22	3:N:1389:LEU:HG	1.47	0.80
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.61	0.80
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.61	0.80
2:M:670:GLN:HG2	9:M:1945:HOH:O	1.82	0.80
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.63	0.80
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.64	0.80
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.64	0.79
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.63	0.79
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.17	0.79
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.47	0.79
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.63	0.79
5:F:266:GLU:HB2	9:F:739:HOH:O	1.82	0.79
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.65	0.79
3:N:693:GLU:HG3	4:O:48:MET:SD	2.23	0.79
2:C:651:LYS:HA	9:C:9016:HOH:O	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:358:LEU:HD11	5:F:370:LYS:HZ2	1.47	0.79
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.64	0.79
3:N:14:SER:H	3:N:17:LYS:HZ1	1.27	0.79
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.64	0.79
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.63	0.79
3:D:119:SER:HB2	3:D:123:LEU:N	1.96	0.79
3:D:877:PRO:HA	9:D:9270:HOH:O	1.83	0.79
1:L:161:ARG:HH11	1:L:161:ARG:HB2	1.48	0.79
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.65	0.79
3:D:1376:MET:HE3	3:D:1421:LEU:HD12	1.64	0.79
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.63	0.79
3:D:1105:ILE:HG13	9:D:9744:HOH:O	1.82	0.79
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.98	0.79
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	1.98	0.79
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.62	0.79
3:D:513:ILE:HA	9:D:9113:HOH:O	1.82	0.79
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.48	0.79
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.65	0.79
3:N:1314:LYS:HZ1	3:N:1317:ASP:HB2	1.46	0.79
2:M:557:ARG:HH21	2:M:879:ARG:HE	1.31	0.78
1:B:128:HIS:HA	9:B:464:HOH:O	1.83	0.78
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.63	0.78
3:D:808:THR:HB	3:D:809:PRO:HD3	1.66	0.78
3:N:119:SER:HB3	3:N:123:LEU:H	1.46	0.78
3:N:601:ARG:NH1	3:N:606:ILE:HA	1.97	0.78
2:C:432:ARG:HH12	3:D:1047:LYS:HD3	1.48	0.78
2:M:15:LEU:HD13	2:M:583:LEU:HD21	1.64	0.78
3:N:141:ILE:HG12	3:N:449:SER:HA	1.63	0.78
3:D:1393:GLN:HB2	3:D:1398:TRP:NE1	1.98	0.78
2:C:108:ILE:HB	2:C:368:THR:OG1	1.83	0.78
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.47	0.78
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.64	0.78
3:N:570:GLU:HB2	5:P:214:GLN:NE2	1.98	0.78
2:C:1056:LYS:O	3:D:624:ASP:HB2	1.84	0.78
2:M:557:ARG:HB3	9:M:1397:HOH:O	1.82	0.78
2:M:736:ASP:O	2:M:744:ARG:HG2	1.83	0.78
3:N:907:GLU:HA	9:N:9151:HOH:O	1.81	0.78
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.65	0.78
3:D:86:ARG:O	3:D:522:PRO:HD2	1.83	0.78
2:M:140:ILE:HA	2:M:332:ARG:O	1.84	0.78
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.65	0.78
3:N:37:LEU:HA	9:N:9983:HOH:O	1.82	0.78
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.66	0.78
2:C:1046:ALA:HB1	3:D:1471:LEU:HD11	1.65	0.78
2:M:172:ILE:HG23	2:M:184:MET:HE3	1.65	0.78
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.66	0.78
3:N:90:MET:HA	9:N:9284:HOH:O	1.83	0.78
2:M:937:ASP:HB2	2:M:940:GLU:HG3	1.66	0.77
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.64	0.77
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.66	0.77
2:M:964:LYS:O	2:M:968:LEU:HG	1.83	0.77
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.67	0.77
2:C:42:VAL:HG12	2:C:43:GLY:H	1.49	0.77
2:C:1092:LEU:HG	3:D:607:LEU:HD21	1.66	0.77
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.64	0.77
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.65	0.77
3:N:152:LEU:HD23	3:N:152:LEU:H	1.48	0.77
5:P:363:GLU:HA	5:P:367:MET:HE3	1.65	0.77
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.66	0.77
3:N:750:PRO:HB2	3:N:756:GLN:OE1	1.84	0.77
2:C:281:LEU:HD11	2:C:306:THR:HA	1.67	0.77
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.49	0.77
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.50	0.77
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.00	0.77
5:P:393:THR:HG22	5:P:394:ARG:H	1.49	0.77
2:C:302:VAL:HG12	9:C:9351:HOH:O	1.84	0.77
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.65	0.77
2:C:281:LEU:HD12	2:C:309:TYR:HB2	1.67	0.77
2:C:945:ARG:HD2	9:C:2219:HOH:O	1.85	0.77
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.67	0.77
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.67	0.77
2:C:882:LEU:HD11	3:D:1038:LEU:HD23	1.65	0.76
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.65	0.76
2:C:690:ILE:HD11	2:C:694:LEU:HB2	1.67	0.76
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.66	0.76
3:D:386:HIS:HA	9:D:9592:HOH:O	1.85	0.76
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.50	0.76
3:D:87:ARG:HA	9:D:2209:HOH:O	1.85	0.76
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.67	0.76
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.49	0.76
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.67	0.76
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.67	0.76
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.67	0.76
3:N:671:LYS:HZ2	3:N:675:ARG:HH21	1.33	0.76
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.20	0.76
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.00	0.76
2:M:1030:GLN:HE22	3:N:628:ARG:HH21	1.31	0.76
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.50	0.76
5:F:132:ARG:HH11	5:F:136:LEU:HD21	1.50	0.76
1:L:112:ARG:HH12	1:L:126:ASP:HA	1.51	0.76
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.84	0.76
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.68	0.76
3:D:601:ARG:HG2	3:D:606:ILE:HD13	1.68	0.76
5:F:417:LYS:HA	9:F:587:HOH:O	1.85	0.76
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.67	0.76
2:C:244:PRO:HD2	2:C:245:GLY:H	1.51	0.76
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.67	0.76
3:D:518:PRO:HB2	9:D:2368:HOH:O	1.84	0.76
5:P:364:ARG:HH12	5:P:392:VAL:HG21	1.49	0.76
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.65	0.76
3:D:785:ILE:H	3:D:785:ILE:HD12	1.49	0.76
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.68	0.76
3:N:835:SER:H	3:N:838:ARG:NH2	1.83	0.76
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.85	0.76
3:N:671:LYS:NZ	3:N:675:ARG:HE	1.83	0.76
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.66	0.76
2:C:820:ARG:HB2	9:C:9031:HOH:O	1.86	0.75
2:M:791:ARG:HB3	2:M:791:ARG:NH1	2.01	0.75
3:N:1209:LEU:HD11	4:O:16:LYS:HD2	1.67	0.75
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.00	0.75
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.68	0.75
3:N:546:ARG:HH22	3:N:550:ARG:HH22	1.34	0.75
3:N:1342:GLU:H	3:N:1342:GLU:CD	1.94	0.75
4:E:13:VAL:HB	9:E:128:HOH:O	1.86	0.75
1:L:176:ARG:CZ	3:N:884:ARG:HH11	1.98	0.75
2:M:1033:GLY:HA2	3:N:619:LEU:O	1.86	0.75
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.67	0.75
5:P:117:SER:HA	9:P:756:HOH:O	1.87	0.75
2:C:678:PRO:O	3:D:943:THR:HA	1.87	0.75
3:D:628:ARG:HD3	3:D:744:GLN:NE2	2.01	0.75
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.68	0.75
3:N:1111:ASP:HB2	3:N:1203:LYS:HD2	1.69	0.75
2:C:66:LEU:HB2	9:C:9063:HOH:O	1.84	0.75
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.51	0.75
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.67	0.75
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.67	0.75
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.02	0.75
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.69	0.75
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.68	0.75
3:D:1377:LYS:HG3	3:D:1394:VAL:HG13	1.69	0.75
2:M:163:ILE:HG21	9:M:1318:HOH:O	1.87	0.75
3:N:514:LEU:HA	9:N:9120:HOH:O	1.87	0.75
3:N:565:ILE:H	3:N:565:ILE:HD12	1.50	0.75
3:N:1138:ALA:HA	3:N:1141:GLU:HG3	1.68	0.75
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.67	0.74
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.67	0.74
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.22	0.74
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.68	0.74
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.69	0.74
5:P:359:SER:HA	9:P:472:HOH:O	1.86	0.74
9:K:5362:HOH:O	2:M:856:GLU:HB3	1.87	0.74
3:D:37:LEU:HA	9:D:9129:HOH:O	1.87	0.74
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.69	0.74
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.50	0.74
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.68	0.74
2:M:1068:GLU:HB2	9:P:447:HOH:O	1.87	0.74
2:C:1019:GLN:HE22	3:D:621:LYS:HG2	1.53	0.74
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.50	0.74
9:C:9028:HOH:O	3:D:1061:PHE:HA	1.88	0.74
3:D:93:ILE:HG12	3:D:548:ILE:HD12	1.69	0.74
3:D:974:ILE:HG22	9:D:9323:HOH:O	1.88	0.74
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.70	0.74
2:C:139:GLN:OE1	2:C:414:GLY:HA3	1.87	0.74
3:D:85:VAL:O	3:D:89:ARG:HD2	1.88	0.74
1:B:74:ASP:HB3	9:B:380:HOH:O	1.87	0.74
2:M:584:GLU:CD	2:M:584:GLU:H	1.95	0.74
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.68	0.74
3:N:1301:LYS:HA	3:N:1301:LYS:HE3	1.68	0.74
2:C:943:VAL:HG23	2:C:985:GLY:H	1.52	0.74
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.70	0.74
2:C:428:ARG:HE	2:C:451:LEU:HD11	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.70	0.74
2:M:534:VAL:H	2:M:538:GLN:NE2	1.85	0.74
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.03	0.73
1:A:59:GLU:HG3	1:A:139:ASN:OD1	1.88	0.73
3:N:451:ASP:HB3	9:N:2657:HOH:O	1.89	0.73
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.68	0.73
2:C:838:LYS:HG3	2:C:997:LEU:HD12	1.70	0.73
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.68	0.73
2:M:107:LEU:HD12	9:M:2109:HOH:O	1.87	0.73
2:M:856:GLU:HG3	9:M:1358:HOH:O	1.88	0.73
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.69	0.73
1:B:41:ARG:HH11	1:B:177:VAL:HG23	1.53	0.73
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.70	0.73
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.73
5:F:156:VAL:HG11	9:F:540:HOH:O	1.86	0.73
1:L:58:ILE:HB	1:L:61:VAL:HB	1.69	0.73
2:M:498:GLN:O	2:M:501:THR:HG23	1.89	0.73
2:M:1111:ILE:HD13	2:M:1111:ILE:H	1.52	0.73
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.70	0.73
1:B:25:LEU:HB2	9:B:327:HOH:O	1.86	0.73
2:M:73:LEU:HD23	2:M:94:LEU:HD13	1.69	0.73
3:N:131:LYS:HG3	3:N:572:ARG:HH21	1.52	0.73
3:N:192:ALA:O	3:N:195:VAL:HG23	1.87	0.73
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.70	0.73
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.69	0.73
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.68	0.73
5:P:335:ASP:OD2	5:P:338:LEU:HB2	1.89	0.73
3:D:1031:ASN:HD22	3:D:1034:GLN:NE2	1.87	0.73
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.71	0.73
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.70	0.73
5:F:94:LEU:HB3	9:F:641:HOH:O	1.87	0.73
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.70	0.73
3:D:213:VAL:HG21	9:D:9317:HOH:O	1.89	0.73
1:L:228:PRO:O	1:L:229:GLN:HG3	1.89	0.73
3:N:1156:LEU:HB3	9:N:9896:HOH:O	1.88	0.73
2:C:231:PRO:HB3	9:C:9753:HOH:O	1.88	0.73
3:D:493:ARG:HH22	3:D:1389:LEU:HG	1.53	0.73
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.53	0.73
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.70	0.73
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.71	0.72
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:704:HIS:HB2	2:C:831:ARG:HE	1.54	0.72
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.70	0.72
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.04	0.72
3:D:528:VAL:O	3:D:535:PHE:HA	1.90	0.72
3:D:666:ILE:H	3:D:666:ILE:HD12	1.53	0.72
3:N:810:GLU:O	3:N:813:LEU:HG	1.89	0.72
5:P:403:LYS:HA	5:P:403:LYS:NZ	2.04	0.72
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.69	0.72
2:C:413:LEU:H	2:C:413:LEU:HD12	1.52	0.72
2:M:1040:LEU:HB3	2:M:1049:LEU:HD12	1.70	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.03	0.72
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.72
2:C:882:LEU:HB3	3:D:951:ILE:HD11	1.72	0.72
3:D:546:ARG:O	3:D:550:ARG:HG2	1.89	0.72
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.54	0.72
3:N:955:VAL:HA	9:N:9213:HOH:O	1.89	0.72
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.54	0.72
2:C:86:LYS:HE2	2:C:813:VAL:HG12	1.69	0.72
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.54	0.72
2:C:626:ARG:H	2:C:639:GLN:NE2	1.87	0.72
3:D:161:LEU:HD23	3:D:449:SER:HB3	1.71	0.72
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.19	0.72
3:D:572:ARG:HH11	5:F:80:PRO:HD3	1.55	0.72
2:M:1115:LEU:HB3	3:N:85:VAL:HG13	1.72	0.72
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.72	0.72
2:M:943:VAL:HG23	2:M:985:GLY:H	1.54	0.72
2:M:1058:ASP:HA	9:M:1172:HOH:O	1.89	0.72
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.72	0.72
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.70	0.72
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.72	0.72
5:F:235:PHE:HA	9:F:523:HOH:O	1.90	0.72
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.69	0.72
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.72	0.72
3:N:1459:LEU:HA	9:N:9821:HOH:O	1.90	0.72
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.71	0.72
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.20	0.72
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.71	0.72
3:D:1105:ILE:HD11	3:D:1374:GLN:NE2	2.04	0.72
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.88	0.72
2:M:1016:ILE:HD11	5:P:317:LEU:HD22	1.71	0.72
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:927:THR:HA	9:N:2186:HOH:O	1.90	0.72
3:N:1031:ASN:HB2	3:N:1034:GLN:CD	2.15	0.72
3:D:90:MET:HE1	3:D:518:PRO:HB3	1.71	0.71
2:M:771:GLU:HA	9:M:2317:HOH:O	1.88	0.71
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.71	0.71
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.55	0.71
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.24	0.71
2:C:557:ARG:NE	2:C:879:ARG:HG2	2.04	0.71
1:K:36:LEU:O	1:K:39:PRO:HD2	1.90	0.71
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.70	0.71
2:C:534:VAL:H	2:C:538:GLN:HE22	1.39	0.71
3:D:400:VAL:HG23	9:D:2550:HOH:O	1.89	0.71
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.69	0.71
2:M:943:VAL:HA	9:M:2093:HOH:O	1.88	0.71
2:C:881:ASN:H	2:C:881:ASN:HD22	1.37	0.71
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.70	0.71
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.54	0.71
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.55	0.71
2:M:184:MET:HE1	2:M:186:VAL:HG13	1.70	0.71
2:M:192:PRO:HD2	9:M:1708:HOH:O	1.91	0.71
2:M:1085:PHE:HD2	3:N:1468:LEU:HA	1.55	0.71
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.72	0.71
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.25	0.71
1:B:153:ALA:HB3	9:B:518:HOH:O	1.90	0.71
3:D:6:ARG:HB2	3:D:7:LYS:HD3	1.70	0.71
5:F:358:LEU:HD21	5:F:370:LYS:HE3	1.73	0.71
2:M:790:LEU:HG	9:M:1927:HOH:O	1.89	0.71
2:M:1088:LEU:HD12	3:N:613:ARG:HE	1.55	0.71
3:N:86:ARG:O	3:N:522:PRO:HD2	1.91	0.71
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.72	0.71
1:K:96:THR:HG21	9:K:1754:HOH:O	1.89	0.71
1:K:99:LEU:HD21	1:K:122:ILE:HD11	1.72	0.71
1:K:206:THR:HG22	1:K:209:GLU:H	1.55	0.71
1:K:228:PRO:HG2	9:K:6760:HOH:O	1.91	0.71
3:N:54:LYS:HG2	3:N:57:GLU:HB3	1.72	0.71
3:N:119:SER:H	3:N:123:LEU:HB2	1.55	0.71
3:N:542:ASP:O	3:N:546:ARG:HG2	1.90	0.71
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.73	0.71
2:C:724:ARG:HB3	2:C:724:ARG:HH11	1.55	0.71
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.19	0.71
3:D:454:ALA:HB1	9:D:9355:HOH:O	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1372:VAL:HG23	3:D:1375:MET:HE3	1.71	0.71
3:N:131:LYS:HA	3:N:456:MET:HG3	1.72	0.71
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.72	0.71
1:A:30:ARG:HH12	2:C:938:LYS:NZ	1.88	0.71
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.71	0.71
2:C:478:VAL:HA	2:C:506:ASN:O	1.91	0.71
3:D:58:CYS:HB3	9:D:9127:HOH:O	1.90	0.71
3:N:12:LEU:HD13	3:N:511:TRP:HB2	1.72	0.71
1:A:20:TYR:HD2	1:A:21:GLY:H	1.39	0.71
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.73	0.71
2:C:575:GLN:HG3	2:C:670:GLN:HG2	1.73	0.71
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.71	0.71
5:F:365:GLU:CD	5:F:397:ILE:HA	2.16	0.71
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.56	0.71
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.55	0.71
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.56	0.71
2:M:752:GLY:C	2:M:791:ARG:HH12	1.99	0.71
3:N:545:ARG:HE	5:P:257:THR:HA	1.56	0.71
3:N:843:PHE:HA	9:N:9435:HOH:O	1.90	0.71
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.56	0.71
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.73	0.70
2:C:409:ARG:HA	2:C:454:SER:HA	1.72	0.70
2:C:610:ARG:HB2	9:C:9166:HOH:O	1.90	0.70
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.72	0.70
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.72	0.70
3:N:639:LEU:HD13	3:N:766:ALA:HB2	1.72	0.70
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.05	0.70
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.71	0.70
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.73	0.70
3:D:58:CYS:SG	3:D:59:ALA:N	2.64	0.70
3:D:133:ILE:HG21	9:D:9355:HOH:O	1.90	0.70
1:K:69:PRO:HG2	9:K:2134:HOH:O	1.90	0.70
2:M:332:ARG:NE	2:M:464:LEU:HG	2.05	0.70
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.56	0.70
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.04	0.70
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.17	0.70
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.71	0.70
2:C:1111:ILE:HD12	2:C:1112:PHE:H	1.55	0.70
2:M:114:PHE:HE2	5:P:283:GLY:HA3	1.56	0.70
2:M:325:ILE:HD11	9:M:1743:HOH:O	1.91	0.70
2:M:707:ARG:HH21	2:M:709:GLU:HB2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.72	0.70
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.72	0.70
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	1.90	0.70
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.55	0.70
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.22	0.70
3:D:490:ALA:HA	9:D:9326:HOH:O	1.90	0.70
3:D:1214:PRO:HD3	9:D:9781:HOH:O	1.90	0.70
5:F:393:THR:HG22	5:F:394:ARG:H	1.56	0.70
3:N:756:GLN:O	3:N:760:ARG:HG2	1.92	0.70
5:P:315:VAL:HA	9:P:809:HOH:O	1.92	0.70
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.22	0.70
3:N:75:ARG:HG2	9:N:2555:HOH:O	1.92	0.70
3:N:607:LEU:HA	3:N:613:ARG:HB3	1.73	0.70
3:N:639:LEU:HD11	3:N:928:ALA:HB1	1.73	0.70
2:C:808:ARG:HH21	2:C:820:ARG:NH2	1.90	0.70
3:D:766:ALA:HA	9:D:2465:HOH:O	1.91	0.70
1:L:110:LYS:HZ2	1:L:110:LYS:HB2	1.56	0.70
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.07	0.70
2:M:405:ARG:HH22	2:M:409:ARG:NH1	1.89	0.70
2:C:8:ARG:HD2	2:C:10:ARG:NH1	2.06	0.70
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.73	0.70
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.56	0.70
3:D:41:ARG:HB3	9:D:2069:HOH:O	1.92	0.70
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.73	0.70
1:K:78:ILE:HA	9:K:1830:HOH:O	1.90	0.70
2:M:547:ILE:HG22	9:M:1643:HOH:O	1.92	0.70
3:N:468:LEU:HB3	9:N:9195:HOH:O	1.92	0.70
3:N:661:MET:SD	3:N:673:ALA:HB1	2.32	0.70
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.03	0.70
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.27	0.70
2:C:804:VAL:HB	2:C:824:ARG:HG3	1.74	0.70
2:C:948:GLU:HG3	2:C:955:PRO:HG3	1.71	0.70
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.17	0.70
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.22	0.70
2:M:1005:MET:HE3	3:N:648:MET:HG3	1.74	0.70
4:O:85:LEU:HD23	4:O:86:GLN:H	1.56	0.70
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.73	0.70
3:D:427:VAL:HG23	9:D:9678:HOH:O	1.91	0.70
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.73	0.70
5:F:77:THR:O	5:F:81:VAL:HG23	1.90	0.70
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.06	0.70
2:M:807:ARG:HH21	2:M:809:GLY:H	1.39	0.70
2:C:137:VAL:HG22	2:C:391:LEU:O	1.92	0.69
3:D:884:ARG:HG2	9:D:2443:HOH:O	1.92	0.69
3:D:1351:GLU:OE1	3:D:1354:LYS:HD2	1.92	0.69
3:N:683:ILE:HA	9:N:9232:HOH:O	1.91	0.69
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.57	0.69
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.74	0.69
5:P:269:ASN:HD21	5:P:273:ARG:NH2	1.89	0.69
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.57	0.69
2:C:322:VAL:HG12	9:C:9620:HOH:O	1.90	0.69
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.93	0.69
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.74	0.69
4:E:30:LEU:O	4:E:35:PHE:HA	1.92	0.69
5:F:317:LEU:O	5:F:329:TYR:HB3	1.92	0.69
2:M:439:CYS:HB2	9:M:1182:HOH:O	1.92	0.69
2:M:704:HIS:CB	2:M:831:ARG:HE	2.05	0.69
5:P:178:ARG:HD3	9:P:476:HOH:O	1.93	0.69
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.73	0.69
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.07	0.69
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	2.07	0.69
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.26	0.69
3:D:136:ASP:HB2	3:D:137:PRO:HD3	1.74	0.69
3:D:525:ARG:HA	3:D:538:SER:HB2	1.72	0.69
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.07	0.69
2:M:95:TYR:HA	9:M:1779:HOH:O	1.91	0.69
3:N:553:ARG:HH12	5:P:211:ASP:HA	1.56	0.69
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.74	0.69
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.74	0.69
3:D:569:ASN:OD1	5:F:80:PRO:HB3	1.92	0.69
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.73	0.69
1:L:110:LYS:HG3	9:L:8102:HOH:O	1.92	0.69
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.92	0.69
1:A:177:VAL:O	2:C:864:GLY:HA3	1.92	0.69
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.56	0.69
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.75	0.69
3:D:699:VAL:H	3:D:756:GLN:NE2	1.90	0.69
4:E:70:THR:HG21	4:E:72:ARG:CZ	2.22	0.69
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.74	0.69
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.72	0.69
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.75	0.69
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.07	0.69
1:B:154:GLU:HB2	9:B:639:HOH:O	1.93	0.69
2:C:405:ARG:NH2	2:C:409:ARG:HH22	1.91	0.69
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.57	0.69
2:C:704:HIS:CB	2:C:831:ARG:HE	2.04	0.69
2:C:811:PRO:HD2	2:C:813:VAL:HG13	1.73	0.69
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.55	0.69
3:N:720:LEU:H	3:N:720:LEU:HD12	1.57	0.69
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	2.07	0.69
4:O:54:LEU:HD11	9:O:3494:HOH:O	1.91	0.69
1:A:86:VAL:HG21	1:A:202:ASP:O	1.93	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.23	0.69
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.73	0.69
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.93	0.69
3:N:1134:LEU:HD23	3:N:1135:ARG:O	1.93	0.69
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.93	0.69
1:A:181:VAL:HG23	9:A:353:HOH:O	1.92	0.69
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.75	0.69
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.23	0.69
2:M:148:PHE:HB3	9:M:1212:HOH:O	1.92	0.69
2:M:432:ARG:HH12	3:N:1053:PHE:HZ	1.40	0.69
3:N:710:ARG:HH22	3:N:1210:SER:CB	2.06	0.69
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.73	0.68
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.58	0.68
2:M:773:LEU:O	2:M:777:ILE:HG13	1.93	0.68
1:A:197:LEU:N	1:A:197:LEU:HD23	2.08	0.68
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.74	0.68
2:C:448:ASN:HB3	2:C:452:ILE:HD11	1.75	0.68
2:C:480:THR:HG22	2:C:482:GLU:H	1.59	0.68
2:C:597:ALA:HA	9:C:2091:HOH:O	1.93	0.68
9:C:9290:HOH:O	3:D:621:LYS:HB2	1.92	0.68
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.76	0.68
3:D:792:ILE:HG13	3:D:860:LEU:HD13	1.75	0.68
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.75	0.68
1:L:185:ARG:HA	9:L:5544:HOH:O	1.93	0.68
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.74	0.68
3:N:1147:ARG:O	3:N:1166:LEU:HD23	1.92	0.68
5:P:342:VAL:HB	9:P:643:HOH:O	1.94	0.68
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.75	0.68
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.74	0.68
3:D:708:LEU:HD21	9:D:9706:HOH:O	1.93	0.68
2:M:211:LEU:HD12	2:M:304:LEU:HD12	1.73	0.68
2:M:399:ASN:O	2:M:402:SER:HB3	1.94	0.68
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.94	0.68
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.56	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.75	0.68
1:A:188:GLN:NE2	1:A:189:ARG:H	1.92	0.68
2:C:673:LEU:HD23	2:C:867:VAL:HA	1.75	0.68
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.74	0.68
1:L:201:THR:HG22	1:L:203:GLY:H	1.58	0.68
2:M:580:MET:HB2	2:M:902:ILE:HD13	1.75	0.68
2:M:605:LYS:HG3	2:M:612:VAL:HB	1.76	0.68
2:M:630:ARG:HH21	2:M:706:GLU:HA	1.56	0.68
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.58	0.68
3:N:100:ALA:HA	9:N:9341:HOH:O	1.94	0.68
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.75	0.68
3:N:616:GLN:HE21	3:N:616:GLN:HA	1.58	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.76	0.68
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.23	0.68
3:N:1491:THR:O	3:N:1495:ILE:HD13	1.93	0.68
2:C:626:ARG:N	2:C:639:GLN:HE21	1.91	0.68
2:C:708:TYR:HD1	2:C:708:TYR:H	1.41	0.68
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.75	0.68
5:F:361:LEU:HD23	5:F:362:SER:H	1.57	0.68
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.74	0.68
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.93	0.68
2:C:534:VAL:H	2:C:538:GLN:NE2	1.92	0.68
5:F:277:GLN:HG3	9:F:519:HOH:O	1.94	0.68
2:M:39:ARG:HA	2:M:39:ARG:CZ	2.24	0.68
2:M:412:ALA:CB	2:M:451:LEU:HB3	2.23	0.68
2:C:420:ARG:HG2	2:C:422:ARG:HG2	1.76	0.68
3:D:1465:ASN:HD21	3:D:1470:ARG:HD3	1.59	0.68
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.58	0.68
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.75	0.68
9:N:9525:HOH:O	5:P:80:PRO:HA	1.92	0.68
9:D:2022:HOH:O	5:F:314:PRO:HB3	1.92	0.68
4:E:70:THR:HG21	4:E:72:ARG:NH2	2.09	0.68
2:M:1088:LEU:HD12	3:N:613:ARG:NE	2.09	0.68
3:N:396:VAL:HG23	9:N:2199:HOH:O	1.94	0.68
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.08	0.68
3:D:422:ALA:H	3:D:427:VAL:HG11	1.58	0.68
3:D:476:GLU:HG2	9:D:2405:HOH:O	1.93	0.68
3:D:704:ARG:HE	3:D:705:ALA:H	1.42	0.68
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.76	0.68
5:F:137:GLY:HA3	9:F:428:HOH:O	1.93	0.68
2:M:551:GLU:HB3	2:M:906:PHE:HD2	1.58	0.68
5:P:337:HIS:CD2	5:P:337:HIS:H	2.10	0.68
1:B:210:ALA:HA	9:B:362:HOH:O	1.94	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.76	0.68
2:C:808:ARG:HH21	2:C:820:ARG:HH22	1.42	0.68
1:L:60:ASP:HB2	9:L:3367:HOH:O	1.92	0.68
2:M:478:VAL:HA	2:M:506:ASN:O	1.94	0.68
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.75	0.68
3:N:32:ILE:O	5:P:258:ILE:HG23	1.94	0.68
3:N:868:TYR:HD1	3:N:869:MET:H	1.39	0.68
3:N:950:GLY:H	3:N:953:ASP:HB2	1.57	0.68
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.40	0.68
5:P:226:LYS:HB2	5:P:238:TYR:OH	1.94	0.68
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.76	0.67
3:D:531:ASP:C	3:D:533:GLY:H	1.98	0.67
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.24	0.67
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.75	0.67
3:N:183:GLU:HA	9:N:9906:HOH:O	1.94	0.67
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.74	0.67
3:N:639:LEU:HB3	9:N:9694:HOH:O	1.93	0.67
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.10	0.67
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.75	0.67
1:A:28:LEU:HB3	9:A:371:HOH:O	1.94	0.67
2:C:105:THR:HA	9:C:9902:HOH:O	1.94	0.67
3:D:195:VAL:HG13	9:D:9321:HOH:O	1.95	0.67
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.94	0.67
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.75	0.67
1:K:101:LEU:HD23	1:K:102:LYS:N	2.09	0.67
2:M:139:GLN:O	2:M:333:ILE:HA	1.94	0.67
3:N:598:ARG:HB3	3:N:598:ARG:HH11	1.59	0.67
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.67
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.58	0.67
1:A:30:ARG:HB3	9:B:479:HOH:O	1.95	0.67
2:C:21:ILE:H	2:C:21:ILE:HD12	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:162:ARG:HE	3:D:434:ARG:CZ	2.06	0.67
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.93	0.67
3:D:1420:LEU:HD12	3:D:1421:LEU:H	1.58	0.67
5:F:152:ASP:HA	9:F:524:HOH:O	1.94	0.67
1:K:44:LEU:HD23	1:K:174:VAL:HG21	1.76	0.67
1:K:58:ILE:HB	1:K:61:VAL:HB	1.77	0.67
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.76	0.67
2:M:136:ILE:HA	9:M:2131:HOH:O	1.94	0.67
2:M:188:LYS:HB3	9:M:1279:HOH:O	1.93	0.67
2:M:379:GLU:O	2:M:383:ARG:HB3	1.94	0.67
3:N:478:LEU:HD21	3:N:500:ARG:HH21	1.58	0.67
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.75	0.67
1:B:99:LEU:HG	9:B:336:HOH:O	1.93	0.67
2:C:971:LYS:HA	2:C:988:VAL:HA	1.76	0.67
2:C:1069:ALA:HA	9:C:9874:HOH:O	1.93	0.67
3:D:1031:ASN:HB2	3:D:1034:GLN:CD	2.19	0.67
3:D:1112:CYS:HB3	3:D:1201:CYS:SG	2.34	0.67
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.93	0.67
4:E:4:PRO:HB3	9:E:145:HOH:O	1.95	0.67
5:F:394:ARG:O	5:F:398:ARG:HG2	1.95	0.67
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.24	0.67
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.59	0.67
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.22	0.67
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.76	0.67
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.93	0.67
5:F:401:GLU:O	5:F:405:LEU:HB3	1.94	0.67
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.60	0.67
2:C:329:GLY:N	2:C:488:ALA:HB3	2.09	0.67
2:C:444:PRO:HG2	2:C:452:ILE:HD12	1.76	0.67
2:C:643:VAL:HB	9:C:2131:HOH:O	1.93	0.67
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.30	0.67
3:D:473:LEU:HD21	3:D:495:ARG:NH2	2.10	0.67
3:D:833:GLU:HB2	9:D:9131:HOH:O	1.94	0.67
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.03	0.67
3:D:1410:GLU:HA	9:D:9114:HOH:O	1.93	0.67
4:E:60:ALA:O	4:E:63:TRP:HB2	1.95	0.67
2:M:1067:TYR:CB	5:P:341:PRO:HB3	2.24	0.67
3:N:185:VAL:HG22	9:N:2196:HOH:O	1.94	0.67
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.76	0.67
3:N:699:VAL:H	3:N:756:GLN:NE2	1.91	0.67
5:P:256:ARG:HE	5:P:260:ILE:HD12	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:266:ARG:HB2	9:C:9463:HOH:O	1.95	0.67
2:C:557:ARG:HB2	9:C:9255:HOH:O	1.95	0.67
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.09	0.67
3:D:556:LYS:HD2	9:D:9137:HOH:O	1.95	0.67
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.76	0.67
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.60	0.67
2:M:679:PHE:HB3	9:M:1161:HOH:O	1.95	0.67
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	1.93	0.67
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.76	0.67
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.12	0.67
5:P:208:SER:HB3	5:P:211:ASP:OD2	1.95	0.67
5:P:325:LYS:HE3	9:P:606:HOH:O	1.94	0.67
1:A:67:THR:HG21	2:C:627:ARG:HE	1.59	0.67
3:D:561:GLY:HA2	5:F:132:ARG:CZ	2.25	0.67
1:L:2:LEU:HD12	1:L:3:ASP:N	2.09	0.67
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.75	0.67
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.75	0.67
2:C:58:ASP:O	2:C:59:LYS:HG2	1.95	0.67
3:D:1046:GLN:HG3	9:D:2290:HOH:O	1.94	0.67
1:L:128:HIS:HA	9:L:8102:HOH:O	1.94	0.67
2:M:464:LEU:HB2	9:M:1456:HOH:O	1.94	0.67
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.19	0.67
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.77	0.67
3:N:436:GLU:HB2	3:N:445:ARG:HB3	1.75	0.67
3:N:1036:ARG:HH21	3:N:1043:GLY:N	1.93	0.67
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.95	0.67
2:C:200:LEU:HB2	9:C:9470:HOH:O	1.92	0.67
2:C:301:GLU:HB3	9:C:2244:HOH:O	1.95	0.67
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.75	0.67
2:M:557:ARG:HG3	2:M:560:MET:SD	2.35	0.67
2:M:807:ARG:HH21	2:M:809:GLY:N	1.92	0.67
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.77	0.67
5:P:369:LEU:HD11	5:P:401:GLU:HB2	1.76	0.67
2:C:89:THR:O	2:C:91:GLN:HG3	1.94	0.66
2:C:139:GLN:HA	2:C:411:SER:O	1.95	0.66
2:C:233:GLU:OE1	2:C:237:ARG:HD3	1.94	0.66
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.76	0.66
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.77	0.66
2:C:630:ARG:NH2	2:C:705:ILE:HG22	2.10	0.66
3:D:1406:ARG:HG3	3:D:1412:LYS:HG3	1.76	0.66
3:N:159:ARG:NH1	3:N:159:ARG:HB2	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:838:ARG:HG2	3:N:865:THR:OG1	1.96	0.66
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.76	0.66
3:D:486:ARG:HD3	3:D:489:ARG:HD3	1.78	0.66
3:D:591:VAL:HG11	9:D:9714:HOH:O	1.94	0.66
3:D:739:ASP:HB2	3:D:741:ASP:OD1	1.95	0.66
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.76	0.66
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.75	0.66
1:K:206:THR:HB	1:K:209:GLU:OE1	1.94	0.66
1:L:7:LYS:HG3	9:L:2277:HOH:O	1.93	0.66
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.77	0.66
3:N:706:PRO:HA	9:N:2193:HOH:O	1.94	0.66
3:N:1343:ALA:HA	9:N:9264:HOH:O	1.95	0.66
2:C:341:THR:O	2:C:345:ARG:HG2	1.96	0.66
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.78	0.66
2:C:771:GLU:O	2:C:775:ARG:HG2	1.96	0.66
3:D:215:TYR:O	3:D:389:GLU:HB2	1.94	0.66
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.24	0.66
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.76	0.66
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.78	0.66
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.76	0.66
2:M:368:THR:HB	2:M:369:PRO:HD3	1.77	0.66
2:M:700:TYR:HB3	2:M:833:LEU:HD13	1.77	0.66
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.75	0.66
3:N:550:ARG:NE	3:N:573:MET:HB3	2.10	0.66
4:O:25:LYS:HA	4:O:28:GLN:HE21	1.60	0.66
5:P:102:LEU:O	5:P:106:VAL:HG23	1.95	0.66
1:B:138:LEU:HB2	1:B:140:MET:HE1	1.75	0.66
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.76	0.66
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.77	0.66
1:K:54:THR:HG21	9:K:6055:HOH:O	1.95	0.66
1:K:115:LEU:HB3	9:K:1554:HOH:O	1.95	0.66
2:M:399:ASN:OD1	2:M:668:LEU:HD23	1.95	0.66
2:M:399:ASN:HB3	2:M:568:ALA:O	1.94	0.66
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.25	0.66
3:N:407:VAL:HG23	3:N:408:GLU:H	1.61	0.66
3:N:524:LEU:C	3:N:526:PRO:HD3	2.20	0.66
3:N:851:LEU:N	3:N:851:LEU:HD23	2.11	0.66
2:C:172:ILE:H	2:C:172:ILE:HD12	1.61	0.66
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.10	0.66
2:C:573:ARG:HB3	2:C:573:ARG:NH1	2.10	0.66
3:D:697:GLY:HA3	9:E:163:HOH:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:704:ARG:NE	3:D:705:ALA:H	1.92	0.66
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.59	0.66
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.78	0.66
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.25	0.66
3:N:676:MET:HG3	9:N:9172:HOH:O	1.95	0.66
3:N:1094:LEU:O	3:N:1098:LEU:HD13	1.95	0.66
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.66
5:P:294:ALA:HB2	9:P:703:HOH:O	1.95	0.66
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.30	0.66
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.77	0.66
2:M:36:PRO:HB3	9:M:1400:HOH:O	1.95	0.66
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.76	0.66
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.11	0.66
3:N:153:LEU:HD11	3:N:158:TYR:N	2.10	0.66
4:O:32:ARG:HD2	9:O:3515:HOH:O	1.96	0.66
2:C:478:VAL:HG23	9:C:9012:HOH:O	1.95	0.66
3:D:156:GLU:HA	3:D:159:ARG:NH1	2.11	0.66
3:D:1049:SER:HB3	9:D:9906:HOH:O	1.96	0.66
3:N:463:GLN:HA	9:N:9553:HOH:O	1.94	0.66
3:N:966:GLU:HA	3:N:969:ARG:NH1	2.11	0.66
4:O:88:GLU:HA	4:O:91:ARG:HD3	1.77	0.66
5:P:228:GLU:HB3	9:P:688:HOH:O	1.95	0.66
2:C:21:ILE:HG13	9:C:9635:HOH:O	1.95	0.66
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.60	0.66
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.26	0.66
3:D:1270:ALA:HB1	9:D:9354:HOH:O	1.96	0.66
5:F:321:ILE:HB	5:F:327:SER:OG	1.96	0.66
1:K:52:ALA:HA	9:K:3135:HOH:O	1.96	0.66
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.78	0.66
2:M:328:LEU:H	2:M:433:THR:HG21	1.61	0.66
5:P:364:ARG:NH1	5:P:392:VAL:HG21	2.11	0.66
2:C:17:PRO:HB2	9:C:9051:HOH:O	1.94	0.66
5:F:367:MET:HA	5:F:370:LYS:HZ3	1.61	0.66
2:M:442:GLU:OE1	2:M:454:SER:HB2	1.96	0.66
2:M:691:SER:HB2	2:M:858:MET:SD	2.36	0.66
2:M:927:GLY:HA2	2:M:930:LYS:HE3	1.78	0.66
3:N:30:GLU:HB3	3:N:40:GLU:HG2	1.77	0.66
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.77	0.66
3:N:978:TYR:HA	9:N:9792:HOH:O	1.95	0.66
5:P:166:LEU:O	5:P:171:LYS:HB2	1.96	0.66
1:B:148:VAL:HG22	9:B:473:HOH:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:640:ARG:HB2	2:C:642:ARG:HH22	1.60	0.66
2:C:663:ASN:HB3	9:C:9386:HOH:O	1.96	0.66
2:C:859:PRO:O	2:C:867:VAL:HG22	1.96	0.66
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.60	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.77	0.66
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.96	0.66
5:F:263:HIS:HA	9:F:739:HOH:O	1.96	0.66
1:K:110:LYS:HB2	1:K:112:ARG:HD3	1.78	0.66
1:B:114:PHE:HB3	9:B:336:HOH:O	1.96	0.65
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.10	0.65
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.77	0.65
5:P:142:ARG:HB3	5:P:142:ARG:HH11	1.61	0.65
5:P:300:ASP:HB3	9:P:517:HOH:O	1.96	0.65
1:B:84:GLU:HG3	1:B:127:LEU:HD21	1.78	0.65
2:C:715:THR:HA	9:C:9273:HOH:O	1.95	0.65
1:K:173:PRO:HA	1:K:202:ASP:OD2	1.95	0.65
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.31	0.65
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.76	0.65
2:M:139:GLN:HB3	2:M:334:ARG:HB2	1.77	0.65
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.78	0.65
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.78	0.65
3:N:785:ILE:H	3:N:785:ILE:HD12	1.61	0.65
1:A:206:THR:HG23	1:A:209:GLU:H	1.61	0.65
2:C:108:ILE:H	2:C:108:ILE:HD12	1.62	0.65
2:C:877:PRO:HG2	3:D:1023:MET:SD	2.36	0.65
2:C:1000:MET:HB3	9:C:9943:HOH:O	1.96	0.65
2:C:1009:SER:HB2	3:D:651:GLU:O	1.96	0.65
3:D:171:LEU:HD13	3:D:389:GLU:C	2.20	0.65
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.78	0.65
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.30	0.65
1:K:130:ALA:HB1	9:K:2174:HOH:O	1.96	0.65
2:M:203:ASP:HB2	9:M:1502:HOH:O	1.95	0.65
9:M:1817:HOH:O	3:N:618:LEU:HD22	1.96	0.65
3:N:611:GLN:HA	3:N:615:ARG:HD3	1.77	0.65
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.78	0.65
3:N:1090:ASP:O	3:N:1093:TYR:HB3	1.97	0.65
3:N:1124:GLN:N	3:N:1133:ARG:O	2.28	0.65
5:P:317:LEU:O	5:P:329:TYR:HB3	1.96	0.65
1:B:175:ARG:HD3	9:B:363:HOH:O	1.95	0.65
3:D:953:ASP:HA	9:D:9280:HOH:O	1.95	0.65
1:L:138:LEU:HA	9:L:2434:HOH:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.31	0.65
3:N:119:SER:HB2	3:N:123:LEU:HD12	1.79	0.65
3:N:178:LEU:HG	3:N:200:ASP:H	1.61	0.65
3:N:1103:HIS:HD2	3:N:1463:LYS:H	1.43	0.65
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.78	0.65
1:A:107:LYS:HD3	9:A:441:HOH:O	1.95	0.65
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.31	0.65
1:B:52:ALA:HB1	9:B:421:HOH:O	1.96	0.65
1:B:148:VAL:HA	9:B:484:HOH:O	1.95	0.65
3:D:530:VAL:HA	9:D:9200:HOH:O	1.95	0.65
1:L:123:MET:C	1:L:125:PRO:HD3	2.22	0.65
2:M:385:PHE:HA	9:M:2038:HOH:O	1.96	0.65
2:M:436:GLY:HA2	2:M:538:GLN:O	1.97	0.65
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.77	0.65
2:M:1067:TYR:HB2	5:P:341:PRO:HB3	1.79	0.65
4:O:39:VAL:HG21	4:O:72:ARG:HG3	1.79	0.65
5:P:220:LEU:O	5:P:224:VAL:HG23	1.96	0.65
2:C:573:ARG:HB3	2:C:573:ARG:HH11	1.60	0.65
3:D:1277:ILE:HD13	3:D:1301:LYS:HB2	1.78	0.65
5:F:419:ARG:HB3	9:F:881:HOH:O	1.96	0.65
2:M:189:ARG:HG2	9:M:1250:HOH:O	1.94	0.65
2:M:206:THR:HG23	9:M:1678:HOH:O	1.95	0.65
2:M:392:SER:HA	9:M:2131:HOH:O	1.96	0.65
2:M:705:ILE:HG13	9:M:1341:HOH:O	1.95	0.65
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.97	0.65
2:C:297:GLU:HA	9:C:2292:HOH:O	1.97	0.65
2:C:660:ALA:HB1	2:C:667:ALA:O	1.97	0.65
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.60	0.65
2:M:391:LEU:HD23	9:M:2131:HOH:O	1.95	0.65
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.79	0.65
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.77	0.65
3:N:586:ARG:HA	3:N:586:ARG:HE	1.62	0.65
3:N:820:GLU:HG2	9:N:2025:HOH:O	1.95	0.65
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.78	0.65
1:A:177:VAL:HG12	9:A:348:HOH:O	1.97	0.65
3:D:605:ASP:HB3	9:D:2354:HOH:O	1.96	0.65
5:F:261:PRO:HB2	9:F:740:HOH:O	1.96	0.65
2:M:524:VAL:HG13	2:M:528:GLU:HB2	1.78	0.65
2:M:1070:ILE:HD13	9:N:9414:HOH:O	1.95	0.65
2:M:1081:VAL:HG23	9:M:2183:HOH:O	1.97	0.65
2:C:199:VAL:HG21	9:C:2185:HOH:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.12	0.65
5:F:134:LYS:HD3	9:F:603:HOH:O	1.96	0.65
5:F:358:LEU:HD11	5:F:370:LYS:NZ	2.11	0.65
2:M:715:THR:HB	2:M:717:LEU:HG	1.79	0.65
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.77	0.65
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.79	0.65
3:N:1314:LYS:H	3:N:1314:LYS:HD3	1.61	0.65
5:P:148:LYS:HG2	9:P:660:HOH:O	1.97	0.65
5:P:321:ILE:HG22	5:P:322:GLY:H	1.61	0.65
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.61	0.65
1:A:32:PHE:HB2	9:A:371:HOH:O	1.97	0.65
2:C:113:VAL:HG22	9:C:9942:HOH:O	1.97	0.65
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.11	0.65
2:C:511:GLU:O	2:C:526:PRO:HD3	1.97	0.65
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.12	0.65
4:E:37:ASN:HD22	4:E:89:MET:HE2	1.61	0.65
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.32	0.65
2:M:244:PRO:HG2	2:M:246:ASP:OD2	1.97	0.65
3:N:33:ASN:OD1	5:P:259:ARG:HB3	1.97	0.65
3:N:677:LEU:HD21	9:N:9954:HOH:O	1.96	0.65
3:N:1123:PHE:HA	3:N:1134:LEU:HA	1.78	0.65
1:A:19:GLU:HG2	9:A:420:HOH:O	1.97	0.64
1:A:198:ARG:HG2	9:A:399:HOH:O	1.97	0.64
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.11	0.64
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.78	0.64
2:C:405:ARG:HD2	2:C:442:GLU:OE1	1.97	0.64
3:D:637:LEU:HD11	3:D:641:GLN:C	2.21	0.64
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.78	0.64
2:M:583:LEU:O	2:M:587:VAL:HG23	1.96	0.64
2:M:841:ASN:HD21	2:M:845:ASN:H	1.41	0.64
2:M:1013:TYR:O	5:P:334:PRO:HA	1.98	0.64
3:N:1258:ARG:O	3:N:1262:LEU:HD13	1.97	0.64
1:A:160:ASP:HB2	9:A:396:HOH:O	1.96	0.64
1:B:30:ARG:HH21	2:C:854:PRO:HG3	1.62	0.64
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.78	0.64
2:C:555:ALA:HB2	3:D:1070:TYR:CE2	2.33	0.64
3:D:108:VAL:HB	9:D:9934:HOH:O	1.95	0.64
3:D:153:LEU:HD11	3:D:158:TYR:N	2.12	0.64
5:F:369:LEU:HD23	9:F:706:HOH:O	1.97	0.64
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.32	0.64
2:M:633:GLN:NE2	2:M:633:GLN:H	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1077:PRO:HD2	9:M:1399:HOH:O	1.97	0.64
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.79	0.64
3:N:505:SER:HB2	9:N:9588:HOH:O	1.96	0.64
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.33	0.64
2:C:236:ILE:HG13	9:C:9361:HOH:O	1.95	0.64
2:C:648:ARG:HB3	9:C:9104:HOH:O	1.96	0.64
2:C:911:GLU:O	2:C:915:LYS:HG2	1.98	0.64
3:D:443:VAL:HG12	3:D:445:ARG:HD2	1.79	0.64
3:D:524:LEU:C	3:D:526:PRO:HD3	2.22	0.64
4:E:67:GLU:OE1	4:E:73:LEU:HD11	1.97	0.64
2:M:412:ALA:HB2	2:M:451:LEU:HB3	1.78	0.64
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.79	0.64
5:P:323:ASP:HB3	5:P:325:LYS:NZ	2.13	0.64
2:C:64:LEU:HD11	9:C:9063:HOH:O	1.96	0.64
2:C:113:VAL:HG13	9:C:9301:HOH:O	1.97	0.64
2:C:193:LEU:HD23	2:C:307:LEU:HD13	1.79	0.64
2:C:841:ASN:HD21	2:C:845:ASN:H	1.45	0.64
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.79	0.64
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.78	0.64
3:D:584:ASN:HB3	9:D:2028:HOH:O	1.97	0.64
4:E:48:MET:N	4:E:54:LEU:HB2	2.11	0.64
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.79	0.64
1:L:2:LEU:HD12	1:L:3:ASP:H	1.61	0.64
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.78	0.64
2:M:163:ILE:HB	2:M:171:TRP:CH2	2.32	0.64
3:N:57:GLU:HG3	3:N:64:LYS:HD2	1.80	0.64
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.79	0.64
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.27	0.64
2:C:634:GLY:HA3	9:C:9222:HOH:O	1.97	0.64
2:C:1008:ARG:HE	2:C:1028:GLY:CA	2.09	0.64
3:D:15:PRO:HB2	9:D:9195:HOH:O	1.97	0.64
3:D:149:LYS:HB2	9:D:2218:HOH:O	1.96	0.64
3:D:421:LEU:HG	9:D:9719:HOH:O	1.96	0.64
3:D:679:ARG:HB2	3:D:682:ASP:OD1	1.98	0.64
3:D:730:PRO:HA	3:D:733:CYS:SG	2.37	0.64
3:D:783:ARG:NH1	3:D:1029:ARG:HG2	2.13	0.64
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.80	0.64
3:D:1040:GLY:O	3:D:1060:SER:HB3	1.97	0.64
3:D:1046:GLN:HG2	9:D:2120:HOH:O	1.97	0.64
3:D:1236:LEU:HA	3:D:1359:GLN:HE22	1.62	0.64
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:356:LYS:O	5:F:360:LYS:HG2	1.97	0.64
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.33	0.64
9:M:1244:HOH:O	3:N:651:GLU:HG3	1.97	0.64
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.61	0.64
3:N:1019:PRO:O	3:N:1023:MET:HG3	1.98	0.64
4:O:60:ALA:O	4:O:63:TRP:HB2	1.96	0.64
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.80	0.64
1:B:151:VAL:HG13	1:B:155:LYS:HE2	1.80	0.64
2:C:338:GLU:HA	2:C:341:THR:HG22	1.80	0.64
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.33	0.64
3:D:131:LYS:O	3:D:133:ILE:HD13	1.98	0.64
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.33	0.64
4:E:42:PRO:HB3	9:E:201:HOH:O	1.98	0.64
5:F:402:ASN:HA	5:F:405:LEU:HD22	1.80	0.64
2:M:549:PHE:CZ	2:M:886:LEU:HD22	2.33	0.64
2:M:660:ALA:HB1	2:M:667:ALA:O	1.97	0.64
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.78	0.64
2:M:983:ILE:HA	9:N:9416:HOH:O	1.98	0.64
4:O:82:GLU:HB3	9:O:4692:HOH:O	1.98	0.64
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.63	0.64
5:F:352:GLU:O	5:F:356:LYS:HG3	1.96	0.64
5:F:423:ASP:HB3	9:F:486:HOH:O	1.96	0.64
1:L:108:GLU:HG2	9:L:2371:HOH:O	1.98	0.64
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.80	0.64
3:N:681:ARG:HB3	3:N:681:ARG:HH11	1.62	0.64
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.26	0.64
2:C:318:PRO:HA	9:C:9945:HOH:O	1.98	0.64
2:C:470:PRO:HG2	2:C:538:GLN:OE1	1.98	0.64
2:C:676:ILE:HG23	2:C:676:ILE:O	1.97	0.64
3:D:655:PRO:HA	3:D:658:LEU:HD12	1.78	0.64
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.78	0.64
2:M:151:ASP:HB3	9:M:2281:HOH:O	1.96	0.64
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.63	0.64
2:M:707:ARG:HE	2:M:824:ARG:HG2	1.62	0.64
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.28	0.64
3:N:616:GLN:NE2	3:N:619:LEU:HB2	2.13	0.64
1:A:195:LEU:HG	1:A:197:LEU:CD2	2.28	0.64
1:B:47:SER:O	1:B:49:PRO:N	2.31	0.64
2:C:56:GLU:HB3	9:C:9080:HOH:O	1.98	0.64
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.78	0.64
3:D:634:GLY:O	3:D:637:LEU:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.98	0.64
3:D:1304:LYS:HD2	9:D:2220:HOH:O	1.96	0.64
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.80	0.64
2:M:244:PRO:HD2	2:M:245:GLY:H	1.62	0.64
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.13	0.64
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.12	0.64
3:N:426:LYS:HG3	3:N:434:ARG:NH1	2.13	0.64
2:C:397:GLU:H	2:C:633:GLN:HE22	1.44	0.64
2:C:433:THR:HG21	2:C:488:ALA:CB	2.27	0.64
3:D:111:LYS:HB3	3:D:512:MET:HE1	1.79	0.64
3:D:625:TYR:O	3:D:749:VAL:HG23	1.98	0.64
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.80	0.64
2:M:971:LYS:HA	2:M:988:VAL:HA	1.79	0.64
3:N:558:LEU:HB3	9:N:9936:HOH:O	1.98	0.64
3:N:588:GLY:HA3	9:N:9410:HOH:O	1.98	0.64
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.33	0.63
2:C:627:ARG:HG3	2:C:628:PHE:H	1.62	0.63
3:D:16:GLU:HA	9:D:9380:HOH:O	1.97	0.63
3:D:965:GLU:HB2	9:D:9122:HOH:O	1.98	0.63
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.13	0.63
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.80	0.63
1:A:132:LEU:HG	9:A:468:HOH:O	1.98	0.63
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.80	0.63
2:M:758:ARG:HB3	2:M:788:THR:O	1.98	0.63
3:N:850:LEU:H	3:N:850:LEU:HD12	1.63	0.63
3:N:1209:LEU:HD22	3:N:1211:MET:HB3	1.79	0.63
3:N:1301:LYS:HD2	9:N:9125:HOH:O	1.99	0.63
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.79	0.63
3:D:90:MET:HE3	3:D:519:VAL:O	1.98	0.63
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.06	0.63
4:E:90:GLU:HG2	9:E:191:HOH:O	1.98	0.63
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.64	0.63
2:M:150:PRO:HD3	9:M:1445:HOH:O	1.98	0.63
2:M:342:ASP:O	2:M:346:VAL:HG23	1.97	0.63
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.28	0.63
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.37	0.63
3:N:1350:GLU:O	3:N:1354:LYS:HG2	1.98	0.63
5:P:403:LYS:NZ	5:P:406:ARG:HD2	2.13	0.63
1:A:37:GLY:HA3	1:A:179:PHE:CD1	2.34	0.63
1:B:86:VAL:HG21	9:B:450:HOH:O	1.98	0.63
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:356:ARG:HA	9:C:9403:HOH:O	1.98	0.63
3:D:27:GLU:O	3:D:28:LYS:HD2	1.97	0.63
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.80	0.63
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.64	0.63
9:D:2160:HOH:O	4:E:60:ALA:HB3	1.98	0.63
1:K:186:LEU:HB3	9:K:1397:HOH:O	1.97	0.63
3:N:762:GLN:HA	9:N:9292:HOH:O	1.98	0.63
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.79	0.63
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.81	0.63
1:B:166:PRO:HD3	9:B:334:HOH:O	1.99	0.63
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.98	0.63
2:C:432:ARG:HH11	3:D:1048:PRO:CD	2.11	0.63
3:D:9:ARG:NH1	3:D:506:GLY:HA2	2.09	0.63
3:D:510:GLU:H	3:D:510:GLU:CD	2.07	0.63
3:D:675:ARG:O	3:D:678:GLU:HG2	1.97	0.63
2:M:290:LEU:HD23	2:M:290:LEU:H	1.63	0.63
2:C:260:LEU:HA	2:C:291:ALA:CB	2.29	0.63
2:C:285:LEU:HD12	2:C:288:ARG:O	1.97	0.63
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.80	0.63
2:C:732:ALA:HB2	9:C:9589:HOH:O	1.97	0.63
3:D:213:VAL:HG22	3:D:214:GLU:H	1.64	0.63
5:F:405:LEU:HD23	5:F:406:ARG:HG3	1.80	0.63
2:M:89:THR:O	2:M:91:GLN:HG3	1.99	0.63
3:N:476:GLU:HG2	9:N:9517:HOH:O	1.97	0.63
5:P:351:SER:O	5:P:355:GLU:HB2	1.98	0.63
5:P:363:GLU:HA	5:P:367:MET:CE	2.28	0.63
2:C:701:THR:HG23	2:C:832:LYS:HA	1.81	0.63
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.63	0.63
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.79	0.63
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.29	0.63
2:M:511:GLU:O	2:M:526:PRO:HD3	1.97	0.63
2:M:915:LYS:HE2	9:M:1347:HOH:O	1.96	0.63
3:N:416:ALA:HB2	9:N:9328:HOH:O	1.97	0.63
3:N:1406:ARG:HA	9:N:9360:HOH:O	1.98	0.63
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.81	0.63
1:L:226:SER:O	1:L:228:PRO:HD3	1.98	0.63
3:N:53:ILE:HG23	3:N:54:LYS:H	1.63	0.63
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.13	0.63
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.81	0.63
4:O:51:LEU:HB3	9:O:1519:HOH:O	1.98	0.63
4:O:86:GLN:O	4:O:90:GLU:HG3	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.34	0.63
2:C:583:LEU:HA	9:C:9499:HOH:O	1.98	0.63
2:C:876:VAL:HG11	3:D:949:ILE:HG21	1.81	0.63
3:D:540:LEU:HD23	3:D:544:TYR:HE2	1.63	0.63
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.63
3:D:1171:VAL:HG11	9:D:2295:HOH:O	1.98	0.63
1:K:110:LYS:HG2	9:K:1619:HOH:O	1.99	0.63
1:L:192:LEU:HB3	9:L:7412:HOH:O	1.97	0.63
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.80	0.63
2:M:61:LYS:HE3	9:M:1475:HOH:O	1.99	0.63
2:M:534:VAL:H	2:M:538:GLN:HE22	1.44	0.63
2:M:556:ASN:HA	9:M:1583:HOH:O	1.99	0.63
3:N:169:TYR:H	3:N:169:TYR:HD1	1.47	0.63
3:N:623:VAL:HG11	9:N:9408:HOH:O	1.97	0.63
3:N:1036:ARG:NH2	3:N:1043:GLY:H	1.96	0.63
2:C:196:LEU:HD23	2:C:200:LEU:HD11	1.81	0.62
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.64	0.62
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.34	0.62
1:K:218:LEU:O	1:K:222:LEU:HD23	1.99	0.62
1:L:36:LEU:O	1:L:39:PRO:HD2	1.99	0.62
2:M:789:SER:O	2:M:791:ARG:HG2	1.98	0.62
2:M:1030:GLN:O	3:N:622:ARG:HA	1.99	0.62
2:M:1080:SER:HA	9:M:1525:HOH:O	1.99	0.62
1:B:119:ASP:HB3	9:B:530:HOH:O	1.99	0.62
2:C:92:ALA:HB1	9:C:9317:HOH:O	1.99	0.62
2:C:195:LEU:HD12	2:C:195:LEU:O	1.99	0.62
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.80	0.62
2:C:276:LYS:HB3	9:C:9614:HOH:O	1.99	0.62
3:D:142:LEU:HA	9:D:9393:HOH:O	1.99	0.62
3:D:1157:GLY:HA2	9:D:9373:HOH:O	1.98	0.62
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.81	0.62
3:D:1299:PHE:HB2	9:D:9335:HOH:O	1.99	0.62
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.81	0.62
2:M:651:LYS:HA	9:M:1401:HOH:O	1.98	0.62
2:M:741:GLY:HA3	9:M:1290:HOH:O	1.99	0.62
2:M:904:PRO:HB3	9:M:1233:HOH:O	1.99	0.62
3:N:58:CYS:SG	3:N:59:ALA:N	2.70	0.62
3:N:546:ARG:NH1	3:N:546:ARG:HB3	2.14	0.62
3:N:820:GLU:HG3	3:N:836:VAL:HG11	1.81	0.62
3:N:898:GLU:CB	3:N:921:ARG:HH22	2.12	0.62
3:N:1061:PHE:HA	9:N:9209:HOH:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:LEU:HD22	9:A:444:HOH:O	1.98	0.62
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.82	0.62
2:C:141:HIS:HB3	2:C:418:LEU:CB	2.28	0.62
3:D:57:GLU:HG2	3:D:58:CYS:N	2.14	0.62
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.00	0.62
5:F:363:GLU:HA	5:F:367:MET:CE	2.28	0.62
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	1.99	0.62
3:N:220:ARG:HA	9:N:2310:HOH:O	1.97	0.62
3:N:1209:LEU:HD21	4:O:16:LYS:HZ2	1.63	0.62
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.99	0.62
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.81	0.62
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.81	0.62
2:C:773:LEU:O	2:C:777:ILE:HG13	2.00	0.62
2:C:863:ASP:OD1	2:C:865:THR:HG22	1.99	0.62
3:D:210:ARG:HG3	3:D:398:ALA:H	1.65	0.62
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.64	0.62
1:K:30:ARG:HG2	9:N:9299:HOH:O	1.99	0.62
2:M:669:GLY:C	2:M:670:GLN:HG3	2.23	0.62
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.82	0.62
2:M:1018:GLN:HB3	9:M:1172:HOH:O	1.98	0.62
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.81	0.62
3:N:213:VAL:HG21	9:N:9906:HOH:O	1.99	0.62
1:B:124:ASN:HA	9:B:457:HOH:O	1.99	0.62
2:C:248:PRO:HD3	9:C:9626:HOH:O	1.98	0.62
2:C:669:GLY:HA3	2:C:995:MET:HA	1.82	0.62
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.81	0.62
3:D:482:LYS:HD2	9:D:2394:HOH:O	1.98	0.62
3:D:570:GLU:HA	3:D:573:MET:HE2	1.81	0.62
5:F:111:GLU:O	5:F:115:LYS:HG2	1.99	0.62
5:F:200:LYS:HD2	5:F:209:PHE:CZ	2.34	0.62
1:L:185:ARG:HG2	9:L:1387:HOH:O	1.98	0.62
2:M:285:LEU:HD23	2:M:285:LEU:O	1.99	0.62
2:M:569:VAL:HG11	2:M:996:LYS:HZ2	1.64	0.62
3:N:684:LYS:HB2	3:N:686:GLU:HG3	1.81	0.62
5:P:230:LYS:HB2	9:P:688:HOH:O	1.99	0.62
5:P:337:HIS:H	5:P:337:HIS:HD2	1.46	0.62
1:A:179:PHE:HD1	1:A:195:LEU:HD11	1.63	0.62
1:A:184:THR:HB	1:A:194:LYS:HE2	1.81	0.62
1:B:186:LEU:HD22	1:B:192:LEU:HD11	1.81	0.62
2:C:420:ARG:H	2:C:420:ARG:HD2	1.65	0.62
2:C:1025:ALA:HB3	9:C:9097:HOH:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1118:LYS:HD3	3:D:20:SER:O	1.99	0.62
3:D:456:MET:HE1	9:D:9466:HOH:O	1.98	0.62
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.65	0.62
5:F:367:MET:HA	5:F:370:LYS:NZ	2.15	0.62
2:M:1014:SER:HB2	5:P:331:ASP:O	1.99	0.62
3:N:57:GLU:HG2	3:N:58:CYS:O	2.00	0.62
3:N:119:SER:N	3:N:123:LEU:HB2	2.13	0.62
3:N:186:VAL:HG11	9:N:9906:HOH:O	1.98	0.62
3:N:477:LEU:HD21	3:N:495:ARG:HH11	1.64	0.62
5:P:155:THR:HA	5:P:158:GLU:OE2	2.00	0.62
3:D:832:ARG:HB2	9:D:9477:HOH:O	2.00	0.62
1:L:99:LEU:HA	9:L:3359:HOH:O	1.99	0.62
2:M:4:LYS:HD2	9:M:1220:HOH:O	1.99	0.62
2:M:230:ARG:HB2	9:M:1607:HOH:O	1.98	0.62
3:N:680:GLN:HB3	9:N:9537:HOH:O	2.00	0.62
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.34	0.62
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.81	0.62
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.82	0.62
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	2.00	0.62
5:F:166:LEU:O	5:F:171:LYS:HB2	2.00	0.62
1:L:100:LEU:HD23	1:L:141:GLU:HG2	1.81	0.62
2:M:217:LEU:HA	9:M:1226:HOH:O	2.00	0.62
2:M:715:THR:HG21	9:M:1668:HOH:O	2.00	0.62
2:M:786:LYS:HA	9:M:1349:HOH:O	1.99	0.62
3:N:37:LEU:HB2	9:N:2570:HOH:O	1.99	0.62
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.99	0.62
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	1.81	0.62
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.81	0.62
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.35	0.62
2:C:818:GLY:HA3	9:C:9771:HOH:O	1.99	0.62
2:C:940:GLU:O	2:C:944:LEU:HG	2.00	0.62
3:D:1197:ARG:HG3	3:D:1198:TYR:N	2.15	0.62
9:D:2701:HOH:O	5:F:314:PRO:HA	2.00	0.62
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.81	0.62
5:F:222:ARG:HA	5:F:225:GLU:OE1	1.99	0.62
5:F:274:THR:HA	9:F:519:HOH:O	1.98	0.62
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.81	0.62
2:M:1031:ARG:HB2	9:M:1236:HOH:O	2.00	0.62
1:A:36:LEU:O	1:A:39:PRO:HD2	1.99	0.62
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.82	0.62
1:K:143:ARG:HH11	1:K:143:ARG:HG2	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.64	0.62
2:M:348:LEU:HD23	9:M:1422:HOH:O	2.00	0.62
2:M:357:GLU:O	2:M:360:LEU:HG	2.00	0.62
3:N:213:VAL:HG22	3:N:214:GLU:H	1.64	0.62
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.35	0.61
1:B:38:ASN:HB2	9:B:629:HOH:O	1.99	0.61
2:C:1049:LEU:O	2:C:1053:LEU:HG	2.00	0.61
9:C:9650:HOH:O	4:E:28:GLN:HA	2.00	0.61
3:D:90:MET:HE1	3:D:518:PRO:CB	2.30	0.61
3:D:139:GLY:O	3:D:147:VAL:HB	2.00	0.61
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.07	0.61
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.00	0.61
2:M:31:GLN:HA	9:M:1325:HOH:O	2.00	0.61
2:M:755:LEU:HB2	9:M:1927:HOH:O	2.00	0.61
3:N:1096:ARG:HH11	3:N:1096:ARG:CB	2.08	0.61
5:P:132:ARG:O	5:P:136:LEU:HG	2.00	0.61
1:A:123:MET:C	1:A:125:PRO:HD3	2.24	0.61
1:A:133:GLU:OE1	2:C:605:LYS:HB3	1.99	0.61
9:A:332:HOH:O	1:B:208:LEU:HD11	2.00	0.61
1:B:50:GLY:HA2	9:B:487:HOH:O	1.98	0.61
2:C:184:MET:HB2	2:C:193:LEU:HD12	1.82	0.61
3:D:109:PRO:HD3	9:D:9934:HOH:O	1.99	0.61
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.82	0.61
3:D:810:GLU:O	3:D:813:LEU:HG	1.99	0.61
3:D:1407:LEU:HA	9:D:2570:HOH:O	2.00	0.61
2:M:308:ARG:HB3	9:M:1833:HOH:O	1.99	0.61
2:M:841:ASN:C	2:M:841:ASN:HD22	2.08	0.61
2:M:1009:SER:HA	9:N:9366:HOH:O	1.98	0.61
3:N:1197:ARG:HD3	3:N:1396:GLU:OE1	2.00	0.61
3:N:1211:MET:HG2	3:N:1213:ARG:HG2	1.82	0.61
1:A:213:GLN:O	1:A:217:ILE:HG13	2.00	0.61
1:B:44:LEU:HD11	1:B:199:ILE:HD11	1.82	0.61
2:C:253:ALA:HB3	9:C:9707:HOH:O	2.00	0.61
2:C:515:ALA:C	2:C:516:ARG:HG2	2.26	0.61
3:D:628:ARG:HD3	3:D:744:GLN:HE22	1.64	0.61
3:D:783:ARG:HH21	8:D:9001:TGT:H2	1.64	0.61
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.82	0.61
5:F:87:GLU:O	5:F:91:VAL:HG22	2.00	0.61
1:L:44:LEU:HD23	1:L:48:ILE:HD11	1.83	0.61
3:N:215:TYR:O	3:N:389:GLU:HB3	1.99	0.61
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:THR:HG22	1:A:209:GLU:HB2	1.82	0.61
2:C:384:GLU:HG3	2:C:388:ARG:NE	2.15	0.61
2:C:1062:GLY:HA2	9:C:9598:HOH:O	1.99	0.61
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.35	0.61
3:D:873:LEU:HD12	3:D:873:LEU:H	1.65	0.61
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.66	0.61
3:D:1268:PRO:HD2	9:D:2058:HOH:O	2.01	0.61
1:K:164:ALA:HA	9:K:6166:HOH:O	1.99	0.61
1:L:170:VAL:HG11	3:N:848:GLU:CD	2.25	0.61
1:L:192:LEU:HD12	9:L:5544:HOH:O	2.00	0.61
2:M:410:ILE:HG22	9:M:2341:HOH:O	2.01	0.61
2:M:669:GLY:HA3	2:M:995:MET:HA	1.82	0.61
2:M:690:ILE:HD12	2:M:833:LEU:HD23	1.82	0.61
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.15	0.61
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.81	0.61
3:N:421:LEU:HB2	9:N:9419:HOH:O	1.99	0.61
3:N:660:LYS:HG2	3:N:690:ALA:HB1	1.82	0.61
5:P:292:ALA:HB1	5:P:299:TRP:O	2.01	0.61
2:C:54:ILE:HD11	2:C:356:ARG:CG	2.29	0.61
2:C:503:LEU:HD12	2:C:505:GLY:H	1.66	0.61
3:D:447:VAL:HG23	9:D:9177:HOH:O	2.00	0.61
3:D:510:GLU:HB3	9:D:9925:HOH:O	1.99	0.61
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.61
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.83	0.61
5:F:278:LEU:HD12	9:F:746:HOH:O	1.99	0.61
2:M:186:VAL:HG23	2:M:187:ASN:H	1.66	0.61
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.66	0.61
2:M:598:GLU:O	2:M:651:LYS:HG3	2.00	0.61
3:N:712:GLY:C	3:N:713:ILE:HD12	2.26	0.61
2:C:26:TYR:O	2:C:30:LEU:HD12	2.00	0.61
2:C:595:LEU:HG	2:C:655:LEU:HD12	1.81	0.61
2:C:981:GLU:HG3	9:C:2177:HOH:O	2.00	0.61
2:C:1115:LEU:HA	3:D:89:ARG:NH2	2.14	0.61
3:D:204:LEU:HD23	9:D:9486:HOH:O	2.01	0.61
2:M:44:ILE:HG22	9:M:1192:HOH:O	1.99	0.61
2:M:528:GLU:O	2:M:530:GLU:HG3	2.00	0.61
2:M:549:PHE:CG	2:M:886:LEU:HD13	2.36	0.61
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.83	0.61
2:M:673:LEU:HD12	2:M:895:TYR:CE1	2.35	0.61
2:M:723:THR:HA	9:M:2073:HOH:O	2.00	0.61
3:N:139:GLY:O	3:N:147:VAL:HB	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:478:LEU:HA	3:N:1388:ARG:NH2	2.16	0.61
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.15	0.61
5:P:361:LEU:HD21	5:P:404:ALA:CB	2.29	0.61
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.64	0.61
1:B:170:VAL:HG22	9:B:421:HOH:O	2.00	0.61
3:D:33:ASN:HD22	3:D:33:ASN:C	2.09	0.61
3:D:565:ILE:HD11	5:F:189:GLU:CD	2.26	0.61
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.16	0.61
3:D:775:GLY:HA2	9:D:2264:HOH:O	2.00	0.61
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.14	0.61
5:F:274:THR:HG23	9:F:811:HOH:O	1.99	0.61
1:K:75:VAL:O	1:K:79:ILE:HG23	2.00	0.61
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.01	0.61
1:K:118:ALA:HB3	9:K:4725:HOH:O	2.01	0.61
1:L:158:ILE:HD11	9:L:5570:HOH:O	2.00	0.61
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.13	0.61
5:P:384:GLU:HA	9:P:789:HOH:O	2.00	0.61
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.82	0.61
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.83	0.61
2:C:145:GLY:O	2:C:163:ILE:HG23	2.01	0.61
2:C:222:MET:HB3	9:C:2084:HOH:O	2.01	0.61
3:D:175:VAL:HG12	3:D:176:ASP:OD1	2.00	0.61
3:D:602:SER:O	3:D:606:ILE:HG12	1.99	0.61
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.81	0.61
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.01	0.61
2:M:551:GLU:HG2	2:M:905:ILE:O	2.00	0.61
2:M:637:LEU:HB2	9:M:1559:HOH:O	1.99	0.61
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.81	0.61
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.65	0.61
3:N:546:ARG:HH22	3:N:550:ARG:NH2	1.98	0.61
3:N:774:SER:C	3:N:776:GLU:H	2.09	0.61
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.16	0.61
9:N:9144:HOH:O	5:P:147:LEU:HD11	1.99	0.61
2:C:139:GLN:NE2	2:C:415:PRO:HD3	2.15	0.61
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.16	0.61
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.83	0.61
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.99	0.61
3:D:1115:THR:HG21	9:D:9271:HOH:O	2.01	0.61
1:K:71:VAL:HG13	9:K:2174:HOH:O	2.00	0.61
2:M:139:GLN:HA	9:M:2341:HOH:O	2.01	0.61
2:M:162:ILE:O	2:M:164:PRO:HD3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.36	0.61
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.82	0.61
3:N:917:GLN:HA	9:N:9492:HOH:O	2.00	0.61
3:N:1192:LEU:HD22	3:N:1345:GLU:CD	2.26	0.61
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.82	0.61
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.83	0.61
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.31	0.61
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.66	0.61
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.16	0.61
3:D:9:ARG:HG3	3:D:9:ARG:O	2.00	0.61
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.83	0.61
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.13	0.61
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.83	0.61
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.83	0.61
1:L:100:LEU:HD12	1:L:115:LEU:HD11	1.83	0.61
2:M:229:MET:HE3	9:M:1376:HOH:O	2.01	0.61
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.81	0.61
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.83	0.61
2:M:911:GLU:O	2:M:915:LYS:HG2	2.00	0.61
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.31	0.61
3:N:715:ALA:O	3:N:764:LEU:HD12	2.00	0.61
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.65	0.61
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.15	0.61
3:N:1379:VAL:HG23	9:N:2585:HOH:O	2.01	0.61
4:O:48:MET:N	4:O:54:LEU:HB2	2.16	0.61
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.64	0.61
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.81	0.60
2:C:367:LEU:HB3	2:C:371:LYS:HG2	1.83	0.60
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.66	0.60
2:C:1014:SER:HB3	2:C:1017:THR:O	2.01	0.60
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.01	0.60
3:D:565:ILE:H	3:D:565:ILE:HD12	1.66	0.60
3:D:704:ARG:HG3	3:D:736:PHE:HB3	1.82	0.60
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.82	0.60
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.83	0.60
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.16	0.60
1:L:84:GLU:OE1	3:N:844:ALA:HB1	2.01	0.60
2:M:302:VAL:HG12	9:M:1355:HOH:O	2.00	0.60
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.82	0.60
3:N:119:SER:H	3:N:123:LEU:HD13	1.66	0.60
3:N:842:VAL:HG22	9:N:9303:HOH:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1091:SER:HA	9:N:9320:HOH:O	1.99	0.60
1:A:221:HIS:HA	1:A:224:TYR:HD2	1.66	0.60
2:C:234:ALA:HA	9:C:2092:HOH:O	1.99	0.60
2:C:436:GLY:HA2	2:C:538:GLN:O	2.02	0.60
3:D:598:ARG:HD3	5:F:320:PRO:HD3	1.81	0.60
3:D:864:VAL:HG12	3:D:865:THR:H	1.66	0.60
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.65	0.60
4:E:95:GLY:HA2	9:E:185:HOH:O	2.01	0.60
2:M:1021:LEU:HD13	5:P:331:ASP:O	2.00	0.60
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.83	0.60
3:N:674:ARG:HB3	9:N:2013:HOH:O	2.01	0.60
2:C:162:ILE:O	2:C:164:PRO:HD3	2.01	0.60
2:C:536:PRO:HD2	2:C:537:LYS:HD2	1.84	0.60
3:D:19:ARG:HG3	9:D:9380:HOH:O	2.01	0.60
3:D:93:ILE:HD12	3:D:519:VAL:HG22	1.81	0.60
3:D:782:SER:HB2	9:D:9499:HOH:O	2.00	0.60
3:D:984:THR:HG23	3:D:987:GLU:H	1.66	0.60
3:D:1239:ARG:HH22	3:D:1254:GLN:H	1.47	0.60
5:F:336:GLU:HG2	9:F:433:HOH:O	2.01	0.60
1:L:170:VAL:HG22	9:L:2130:HOH:O	2.00	0.60
2:M:250:ARG:HB3	9:M:1190:HOH:O	2.01	0.60
2:M:397:GLU:HG3	2:M:633:GLN:HE22	1.66	0.60
3:N:65:ARG:CG	3:N:66:GLN:H	2.14	0.60
3:N:783:ARG:NH1	3:N:1029:ARG:HD3	2.16	0.60
1:A:198:ARG:C	1:A:199:ILE:HD12	2.26	0.60
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.83	0.60
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.31	0.60
3:D:156:GLU:HA	3:D:159:ARG:HH12	1.67	0.60
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.01	0.60
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.01	0.60
3:D:1377:LYS:O	3:D:1394:VAL:HA	2.02	0.60
5:F:93:LEU:HG	5:F:190:ALA:CB	2.32	0.60
2:M:8:ARG:HB2	9:M:1613:HOH:O	2.01	0.60
2:M:112:GLU:HB2	9:M:1464:HOH:O	2.01	0.60
2:M:1097:LEU:H	2:M:1097:LEU:HD22	1.66	0.60
2:M:1102:LEU:HB2	3:N:7:LYS:HG3	1.84	0.60
3:N:443:VAL:HG11	3:N:445:ARG:HH21	1.66	0.60
3:N:1464:GLU:HG2	3:N:1465:ASN:H	1.67	0.60
2:C:666:LEU:HD13	9:C:9925:HOH:O	2.02	0.60
2:C:964:LYS:HE3	9:C:9220:HOH:O	2.01	0.60
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:702:LEU:HB3	3:D:745:MET:CE	2.30	0.60
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.84	0.60
3:D:774:SER:C	3:D:776:GLU:H	2.08	0.60
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.64	0.60
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.82	0.60
2:M:537:LYS:HG3	2:M:545:ASN:ND2	2.16	0.60
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.36	0.60
2:C:1043:TYR:OH	3:D:711:LEU:HD23	2.02	0.60
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.17	0.60
3:D:47:GLU:HB3	9:D:9864:HOH:O	2.02	0.60
2:M:283:ILE:HG13	9:M:2340:HOH:O	2.02	0.60
2:M:918:LEU:HD21	9:M:1479:HOH:O	2.00	0.60
4:O:43:GLU:HG2	4:O:44:GLU:H	1.66	0.60
4:O:72:ARG:HB3	4:O:72:ARG:HH11	1.66	0.60
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.84	0.60
3:D:172:PRO:HD2	3:D:389:GLU:O	2.01	0.60
3:D:393:ILE:H	3:D:393:ILE:HD12	1.66	0.60
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.16	0.60
5:F:290:GLU:HA	5:F:293:GLU:OE2	2.01	0.60
2:M:178:PRO:HA	9:M:1536:HOH:O	2.02	0.60
5:P:256:ARG:NE	5:P:260:ILE:HD12	2.17	0.60
5:P:283:GLY:HA2	9:P:745:HOH:O	2.02	0.60
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.84	0.60
2:C:224:GLU:HG3	9:C:9073:HOH:O	2.00	0.60
2:C:926:PHE:O	2:C:930:LYS:HG3	2.01	0.60
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.84	0.60
3:D:33:ASN:HB3	3:D:35:ARG:HH12	1.65	0.60
3:D:40:GLU:OE1	3:D:40:GLU:HA	2.01	0.60
3:D:459:GLU:HA	9:D:2118:HOH:O	2.01	0.60
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.67	0.60
3:D:911:LEU:O	3:D:915:VAL:HG23	2.01	0.60
5:F:148:LYS:HB3	9:F:702:HOH:O	2.02	0.60
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.16	0.60
1:L:28:LEU:O	1:L:192:LEU:HD23	2.01	0.60
2:M:278:GLU:HB3	9:M:1258:HOH:O	2.01	0.60
2:M:557:ARG:NH2	2:M:879:ARG:HE	1.98	0.60
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.66	0.60
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.16	0.60
3:N:1257:PRO:O	3:N:1260:ILE:HG22	2.01	0.60
3:N:1284:GLU:HB2	9:N:9466:HOH:O	2.01	0.60
5:P:416:ARG:CZ	5:P:419:ARG:HB2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:103:ALA:O	1:B:138:LEU:HD23	2.02	0.60
1:B:151:VAL:HG22	1:B:155:LYS:NZ	2.17	0.60
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.02	0.60
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.32	0.60
2:C:462:ASP:CG	2:C:463:GLU:H	2.09	0.60
2:C:942:GLU:HA	9:C:2219:HOH:O	1.99	0.60
2:C:1085:PHE:CZ	2:C:1111:ILE:HG21	2.37	0.60
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.31	0.60
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.02	0.60
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.60
5:F:116:LEU:HA	9:F:885:HOH:O	2.00	0.60
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.84	0.60
5:F:385:GLU:O	5:F:397:ILE:HD13	2.02	0.60
2:M:89:THR:HA	2:M:129:ILE:O	2.02	0.60
2:M:328:LEU:HD13	2:M:433:THR:HB	1.84	0.60
2:M:490:GLU:HG2	2:M:494:TYR:HE1	1.66	0.60
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.84	0.60
2:C:343:GLN:HA	9:C:2186:HOH:O	2.01	0.60
2:C:875:GLY:O	2:C:879:ARG:HD2	2.02	0.60
2:C:890:LEU:HD12	2:C:914:ILE:HD13	1.84	0.60
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.16	0.60
3:D:890:VAL:HA	9:D:9733:HOH:O	2.02	0.60
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.37	0.60
3:D:1496:GLU:HA	3:D:1499:ARG:HG3	1.84	0.60
9:D:9679:HOH:O	5:F:349:LEU:HD21	2.02	0.60
5:F:119:ILE:HB	9:F:885:HOH:O	2.01	0.60
5:F:262:VAL:HG12	5:F:266:GLU:OE2	2.01	0.60
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.17	0.60
2:M:31:GLN:HG2	2:M:34:VAL:HG23	1.82	0.60
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.83	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.83	0.60
2:M:564:MET:HE1	9:M:1838:HOH:O	2.01	0.60
3:N:31:THR:HG23	3:N:45:PHE:CE2	2.37	0.60
3:N:49:ILE:HB	3:N:50:PHE:CD1	2.37	0.60
3:N:52:PRO:HB3	3:N:80:VAL:HG13	1.83	0.60
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.28	0.60
3:N:804:LEU:HB3	9:N:9283:HOH:O	2.02	0.60
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.83	0.59
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.36	0.59
1:B:228:PRO:O	1:B:229:GLN:HG3	2.02	0.59
2:C:774:LEU:HD23	9:F:623:HOH:O	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1047:HIS:HA	9:C:9436:HOH:O	2.01	0.59
3:D:380:GLU:O	3:D:382:GLU:N	2.34	0.59
3:D:1271:LYS:NZ	3:D:1334:GLN:HE22	2.00	0.59
2:M:203:ASP:CG	2:M:206:THR:HG22	2.27	0.59
3:N:119:SER:HB2	3:N:123:LEU:CD1	2.32	0.59
3:N:804:LEU:HB2	3:N:830:ALA:O	2.02	0.59
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.32	0.59
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.37	0.59
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.84	0.59
5:F:91:VAL:HG21	9:F:677:HOH:O	2.01	0.59
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.18	0.59
2:M:165:LEU:HD13	2:M:166:PRO:C	2.27	0.59
2:M:313:LEU:HD13	2:M:321:GLU:HB2	1.85	0.59
2:M:479:VAL:HG23	2:M:506:ASN:HA	1.84	0.59
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.30	0.59
2:M:752:GLY:H	2:M:792:VAL:HB	1.67	0.59
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.83	0.59
3:N:1254:GLN:HB3	9:N:2215:HOH:O	2.02	0.59
1:B:27:PRO:O	1:B:28:LEU:HD23	2.03	0.59
2:C:29:ALA:HB2	2:C:337:GLY:HA2	1.84	0.59
5:F:303:ARG:O	5:F:307:THR:HG23	2.02	0.59
1:K:27:PRO:HB2	9:K:7997:HOH:O	2.00	0.59
1:K:127:LEU:HD12	1:K:128:HIS:N	2.17	0.59
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.85	0.59
3:N:134:VAL:HG22	9:N:9888:HOH:O	2.02	0.59
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.38	0.59
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.02	0.59
3:N:1231:GLU:OE1	3:N:1232:PRO:HG3	2.02	0.59
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.17	0.59
1:B:206:THR:CG2	1:B:209:GLU:H	2.16	0.59
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.32	0.59
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.84	0.59
2:C:499:ALA:HB1	9:C:2229:HOH:O	2.02	0.59
2:C:605:LYS:HE2	2:C:610:ARG:NH1	2.16	0.59
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.84	0.59
3:D:699:VAL:HG12	3:D:717:GLN:HG3	1.83	0.59
5:F:142:ARG:CZ	5:F:150:THR:HG21	2.32	0.59
2:M:545:ASN:O	2:M:581:THR:HG21	2.02	0.59
2:M:586:ARG:HD3	2:M:590:ASP:OD2	2.01	0.59
2:M:620:LEU:O	2:M:620:LEU:HD22	2.02	0.59
3:N:84:ILE:HG23	9:N:2157:HOH:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:385:GLU:O	5:P:397:ILE:HD13	2.03	0.59
2:C:42:VAL:HG12	2:C:43:GLY:N	2.17	0.59
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.84	0.59
3:D:690:ALA:O	3:D:694:VAL:HG23	2.02	0.59
3:D:961:LYS:HB2	9:D:2239:HOH:O	2.03	0.59
1:K:184:THR:O	1:K:192:LEU:HD12	2.02	0.59
2:M:33:ASP:OD2	2:M:34:VAL:HG22	2.03	0.59
2:M:260:LEU:HA	2:M:291:ALA:CB	2.33	0.59
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.17	0.59
3:N:430:ASP:HB3	9:N:9423:HOH:O	2.02	0.59
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.82	0.59
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.02	0.59
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.84	0.59
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.84	0.59
3:D:611:GLN:HA	3:D:615:ARG:HG2	1.85	0.59
3:D:804:LEU:HB2	3:D:830:ALA:O	2.03	0.59
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.03	0.59
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.84	0.59
4:E:4:PRO:HG3	9:E:213:HOH:O	2.01	0.59
1:K:159:LYS:HE2	9:K:8175:HOH:O	2.02	0.59
2:M:39:ARG:HA	2:M:39:ARG:NE	2.18	0.59
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.84	0.59
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.43	0.59
2:M:629:TYR:HB2	9:M:1559:HOH:O	2.02	0.59
2:M:1055:LEU:HD21	9:M:1399:HOH:O	2.01	0.59
3:N:161:LEU:HG	9:N:9501:HOH:O	2.01	0.59
3:N:697:GLY:HA3	9:O:4442:HOH:O	2.02	0.59
1:A:18:ARG:O	1:A:207:PRO:HD3	2.03	0.59
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.32	0.59
2:C:139:GLN:CD	2:C:415:PRO:HD3	2.28	0.59
2:C:708:TYR:N	2:C:708:TYR:CD1	2.69	0.59
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.37	0.59
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.18	0.59
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.66	0.59
3:D:1243:THR:OG1	3:D:1253:THR:HB	2.02	0.59
5:F:119:ILE:HG12	9:F:695:HOH:O	2.02	0.59
2:M:266:ARG:HB2	9:M:1259:HOH:O	2.02	0.59
2:M:437:ARG:HG2	2:M:467:ILE:O	2.02	0.59
2:M:1032:PHE:CD2	2:M:1052:MET:HG2	2.37	0.59
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.84	0.59
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.67	0.59
5:P:231:ARG:HD3	9:P:790:HOH:O	2.03	0.59
2:C:583:LEU:O	2:C:587:VAL:HG23	2.02	0.59
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.03	0.59
2:C:1096:ALA:O	3:D:13:ALA:HB2	2.02	0.59
3:D:3:LYS:HE2	9:D:9617:HOH:O	2.03	0.59
3:D:976:GLN:HG3	9:D:9724:HOH:O	2.02	0.59
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	1.84	0.59
3:D:1408:ILE:HG12	9:D:9584:HOH:O	2.03	0.59
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.37	0.59
2:M:157:ARG:HB3	9:M:1879:HOH:O	2.00	0.59
3:N:404:GLU:HB3	3:N:414:ARG:HD2	1.85	0.59
3:N:535:PHE:O	5:P:315:VAL:N	2.31	0.59
3:N:1007:VAL:HG23	3:N:1008:PHE:HD2	1.68	0.59
2:C:283:ILE:HD12	9:C:9725:HOH:O	2.02	0.59
2:C:630:ARG:HE	2:C:705:ILE:HB	1.67	0.59
3:D:89:ARG:O	3:D:521:PRO:HG3	2.03	0.59
3:D:424:GLY:HA2	3:D:435:VAL:O	2.03	0.59
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.02	0.59
3:D:902:LEU:HG	9:D:9927:HOH:O	2.03	0.59
3:D:1209:LEU:HD22	3:D:1211:MET:SD	2.43	0.59
5:F:395:GLU:O	5:F:399:GLN:HB2	2.02	0.59
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.66	0.59
2:M:139:GLN:HB3	2:M:334:ARG:HD3	1.84	0.59
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.84	0.59
2:M:431:HIS:CD2	2:M:433:THR:H	2.20	0.59
2:M:1111:ILE:HG12	2:M:1112:PHE:H	1.67	0.59
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.18	0.59
3:N:877:PRO:O	3:N:880:ILE:HG22	2.03	0.59
3:N:1489:GLN:HB2	9:N:2560:HOH:O	2.02	0.59
5:P:164:LYS:HA	5:P:171:LYS:NZ	2.18	0.59
1:A:58:ILE:HB	1:A:61:VAL:HB	1.85	0.59
1:A:206:THR:CG2	1:A:209:GLU:H	2.16	0.59
2:C:334:ARG:HB3	9:C:9652:HOH:O	2.03	0.59
2:C:397:GLU:H	2:C:633:GLN:NE2	2.00	0.59
2:C:443:THR:HG21	2:C:450:GLY:H	1.68	0.59
2:C:1055:LEU:HD23	9:C:9412:HOH:O	2.02	0.59
3:D:576:GLU:C	3:D:576:GLU:CD	2.71	0.59
3:D:1076:GLY:O	3:D:1079:LYS:HG3	2.02	0.59
3:D:1087:ARG:O	3:D:1091:SER:HB3	2.03	0.59
1:K:112:ARG:HB3	1:K:112:ARG:HH11	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:26:GLU:HG3	1:L:194:LYS:NZ	2.18	0.59
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.38	0.59
3:N:6:ARG:NH1	3:N:6:ARG:HB3	2.18	0.59
3:N:31:THR:HG23	3:N:45:PHE:HE2	1.68	0.59
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.84	0.59
5:P:154:LYS:O	5:P:158:GLU:HG3	2.03	0.59
1:B:80:LEU:HA	1:B:83:LYS:HD2	1.85	0.58
2:C:100:LEU:HD12	2:C:101:ILE:O	2.02	0.58
2:C:264:PRO:HD2	9:C:9395:HOH:O	2.03	0.58
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.38	0.58
2:C:498:GLN:O	2:C:501:THR:HG23	2.02	0.58
2:C:557:ARG:HG3	2:C:560:MET:SD	2.43	0.58
2:C:765:SER:HB3	9:C:2071:HOH:O	2.03	0.58
9:C:9084:HOH:O	3:D:648:MET:HE3	2.02	0.58
3:D:209:ARG:HD2	3:D:210:ARG:HD3	1.84	0.58
3:D:1326:THR:HA	9:D:2721:HOH:O	2.02	0.58
9:D:2043:HOH:O	5:F:317:LEU:HD11	2.03	0.58
5:F:142:ARG:HG3	9:F:730:HOH:O	2.01	0.58
5:F:310:ILE:HB	9:F:522:HOH:O	2.01	0.58
1:L:52:ALA:HB1	9:L:2130:HOH:O	2.02	0.58
2:M:1002:GLU:HA	2:M:1006:HIS:HE1	1.68	0.58
3:N:149:LYS:HE3	9:N:9593:HOH:O	2.03	0.58
3:N:181:ASP:OD2	3:N:199:LEU:HB2	2.03	0.58
3:N:552:ASN:HA	3:N:555:LYS:HD2	1.83	0.58
2:C:124:ASP:CG	2:C:407:LYS:HZ1	2.11	0.58
2:C:580:MET:HB3	2:C:584:GLU:CD	2.28	0.58
3:D:542:ASP:O	3:D:546:ARG:HG2	2.03	0.58
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.84	0.58
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.18	0.58
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.18	0.58
2:M:371:LYS:HA	9:M:1378:HOH:O	2.02	0.58
2:M:401:LEU:HD13	2:M:546:LEU:HD11	1.85	0.58
2:M:408:ARG:HD2	9:M:1641:HOH:O	2.03	0.58
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.85	0.58
2:M:1105:LYS:HE2	9:M:1654:HOH:O	2.03	0.58
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.85	0.58
3:N:986:ARG:HG3	3:N:990:ASP:OD2	2.03	0.58
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.84	0.58
4:O:85:LEU:HD23	4:O:86:GLN:N	2.18	0.58
5:P:198:ILE:HG23	5:P:244:ARG:HE	1.68	0.58
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.17	0.58
2:C:435:TYR:C	2:C:437:ARG:H	2.11	0.58
3:D:190:GLU:HB3	9:D:2258:HOH:O	2.02	0.58
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.38	0.58
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.03	0.58
2:M:113:VAL:CG1	2:M:115:LEU:HD21	2.33	0.58
2:M:1015:LEU:HD12	5:P:334:PRO:O	2.03	0.58
3:N:694:VAL:HG13	9:N:9950:HOH:O	2.03	0.58
3:N:728:LEU:HD13	3:N:745:MET:HE1	1.84	0.58
1:A:209:GLU:O	1:A:213:GLN:HG3	2.03	0.58
2:C:25:SER:HB2	2:C:335:THR:HB	1.84	0.58
2:C:89:THR:HA	2:C:129:ILE:O	2.03	0.58
2:C:881:ASN:HD22	2:C:881:ASN:N	1.97	0.58
2:C:1091:GLU:HG2	3:D:606:ILE:CG2	2.33	0.58
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.38	0.58
2:C:1111:ILE:CD1	2:C:1112:PHE:H	2.16	0.58
3:D:65:ARG:H	3:D:68:PHE:HE1	1.51	0.58
3:D:494:LYS:HD2	9:D:9194:HOH:O	2.04	0.58
3:D:537:THR:C	5:F:317:LEU:HB2	2.28	0.58
3:D:907:GLU:O	3:D:911:LEU:HD13	2.04	0.58
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.86	0.58
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.85	0.58
5:F:147:LEU:HD13	9:F:536:HOH:O	2.03	0.58
5:F:240:THR:HG23	9:F:597:HOH:O	2.02	0.58
1:K:20:TYR:HD2	1:K:21:GLY:H	1.52	0.58
1:K:93:SER:HB3	9:K:1521:HOH:O	2.03	0.58
1:L:205:VAL:HB	9:L:5364:HOH:O	2.03	0.58
2:M:8:ARG:HD2	2:M:10:ARG:NH2	2.12	0.58
2:M:100:LEU:HD11	9:M:1650:HOH:O	2.03	0.58
3:N:65:ARG:HG3	3:N:66:GLN:H	1.68	0.58
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.85	0.58
3:N:950:GLY:O	3:N:953:ASP:N	2.31	0.58
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.85	0.58
3:D:12:LEU:HD23	3:D:13:ALA:H	1.68	0.58
3:D:404:GLU:HB3	3:D:414:ARG:HD2	1.85	0.58
3:D:838:ARG:HB3	9:D:2307:HOH:O	2.03	0.58
3:D:1005:GLN:HA	9:D:9273:HOH:O	2.03	0.58
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.30	0.58
3:D:1186:VAL:HG22	9:D:9795:HOH:O	2.03	0.58
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.19	0.58
2:M:264:PRO:HD2	9:M:1885:HOH:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:984:GLU:HA	9:M:2093:HOH:O	2.03	0.58
2:M:1069:ALA:HA	9:M:1298:HOH:O	2.04	0.58
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.33	0.58
3:N:748:HIS:HB3	9:N:9408:HOH:O	2.03	0.58
3:N:1046:GLN:HG2	3:N:1052:THR:HB	1.86	0.58
4:O:87:LYS:HA	9:O:4494:HOH:O	2.04	0.58
1:A:62:LEU:HD12	1:A:62:LEU:H	1.69	0.58
1:A:102:LYS:HE2	1:A:139:ASN:HB2	1.83	0.58
1:A:143:ARG:HG3	1:A:144:VAL:N	2.18	0.58
2:C:22:GLN:NE2	2:C:121:MET:HE2	2.18	0.58
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.69	0.58
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.04	0.58
3:D:116:LEU:O	3:D:118:LEU:HG	2.03	0.58
3:D:163:TYR:HB3	9:D:2181:HOH:O	2.03	0.58
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.39	0.58
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.85	0.58
5:F:77:THR:HA	5:F:210:LEU:HD21	1.84	0.58
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.39	0.58
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.86	0.58
2:M:532:MET:HG3	2:M:533:ASP:N	2.17	0.58
2:M:580:MET:HE3	2:M:902:ILE:HG12	1.86	0.58
2:M:610:ARG:C	2:M:611:ILE:HD12	2.29	0.58
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.86	0.58
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.34	0.58
3:N:804:LEU:HD23	3:N:804:LEU:H	1.67	0.58
3:N:972:LEU:O	3:N:976:GLN:HG3	2.03	0.58
3:N:1364:HIS:CE1	3:N:1366:LYS:HB2	2.39	0.58
2:C:19:THR:O	2:C:23:VAL:HG23	2.03	0.58
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.85	0.58
2:C:380:ALA:O	2:C:384:GLU:HB2	2.03	0.58
2:C:599:GLU:HB3	9:C:9476:HOH:O	2.03	0.58
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.85	0.58
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.85	0.58
3:D:408:GLU:HA	9:D:9418:HOH:O	2.04	0.58
3:D:1168:MET:HE3	3:D:1168:MET:O	2.04	0.58
3:D:1237:THR:HG21	9:D:2660:HOH:O	2.03	0.58
5:F:321:ILE:HG22	5:F:322:GLY:H	1.67	0.58
2:M:160:ALA:O	2:M:173:ASP:HA	2.04	0.58
2:M:420:ARG:H	2:M:420:ARG:NH1	2.02	0.58
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.67	0.58
2:M:580:MET:HB3	2:M:584:GLU:CD	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:625:LEU:HD22	2:M:639:GLN:HB2	1.85	0.58
2:M:1043:TYR:HA	9:N:9718:HOH:O	2.03	0.58
3:N:555:LYS:HE2	9:N:2144:HOH:O	2.04	0.58
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.02	0.58
1:A:58:ILE:HG22	9:A:516:HOH:O	2.03	0.58
1:B:45:LEU:HD21	1:B:177:VAL:HG22	1.85	0.58
1:B:58:ILE:HB	1:B:61:VAL:HB	1.85	0.58
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.38	0.58
2:C:431:HIS:H	2:C:434:HIS:CE1	2.21	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.34	0.58
2:C:984:GLU:HG2	3:D:944:THR:HG22	1.85	0.58
3:D:54:LYS:HD3	3:D:57:GLU:CD	2.29	0.58
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.19	0.58
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.39	0.58
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.86	0.58
1:K:95:GLN:HA	9:K:4334:HOH:O	2.04	0.58
2:M:722:ILE:HG21	2:M:821:GLU:OE2	2.03	0.58
3:N:393:ILE:HD12	3:N:393:ILE:H	1.69	0.58
3:N:1166:LEU:HD13	9:N:2153:HOH:O	2.04	0.58
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.84	0.58
1:A:226:SER:O	1:A:228:PRO:HD3	2.04	0.58
2:C:148:PHE:HB3	9:C:9294:HOH:O	2.03	0.58
2:C:208:ALA:O	2:C:218:VAL:HG21	2.04	0.58
2:C:724:ARG:NE	2:C:737:LEU:O	2.37	0.58
2:C:1005:MET:CE	3:D:648:MET:HB2	2.33	0.58
3:D:18:ILE:HG21	3:D:516:ALA:O	2.04	0.58
3:D:235:ALA:HB3	9:D:2067:HOH:O	2.03	0.58
3:D:623:VAL:HG11	9:D:9215:HOH:O	2.01	0.58
3:D:988:ARG:O	3:D:992:ILE:HG13	2.04	0.58
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.18	0.58
3:D:1499:ARG:HG2	9:D:9726:HOH:O	2.02	0.58
9:D:9689:HOH:O	5:F:315:VAL:HB	2.04	0.58
5:F:132:ARG:O	5:F:136:LEU:HG	2.03	0.58
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.85	0.58
1:L:166:PRO:HB3	9:L:3186:HOH:O	2.03	0.58
2:M:367:LEU:O	2:M:372:LEU:HD13	2.03	0.58
3:N:601:ARG:CZ	3:N:606:ILE:HD13	2.33	0.58
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.69	0.58
2:C:365:ASP:O	2:C:367:LEU:HD12	2.04	0.58
2:C:884:GLN:HG3	2:C:885:ILE:HD13	1.85	0.58
3:D:41:ARG:HD3	3:D:42:ASP:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:924:MET:HG2	9:D:2460:HOH:O	2.03	0.58
3:D:1159:ARG:HB3	3:D:1159:ARG:CZ	2.34	0.58
3:D:1450:ALA:HA	9:D:2279:HOH:O	2.04	0.58
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.86	0.58
5:F:93:LEU:HD23	9:F:839:HOH:O	2.04	0.58
5:F:414:ARG:HG2	5:F:414:ARG:HH11	1.68	0.58
2:M:203:ASP:OD1	2:M:206:THR:HG22	2.04	0.58
3:N:557:LEU:HD11	9:P:667:HOH:O	2.03	0.58
3:N:659:LYS:O	3:N:663:GLU:HG3	2.04	0.58
5:P:267:THR:O	5:P:271:LEU:HG	2.04	0.58
5:P:297:PRO:HB2	9:P:446:HOH:O	2.04	0.58
5:P:350:LEU:HD23	5:P:351:SER:N	2.19	0.58
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.84	0.57
1:A:178:ALA:CB	2:C:864:GLY:H	2.17	0.57
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.85	0.57
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.85	0.57
2:C:420:ARG:H	2:C:420:ARG:CD	2.17	0.57
2:C:798:GLY:H	2:C:827:VAL:CG1	2.17	0.57
2:C:962:GLN:HB2	9:C:9244:HOH:O	2.02	0.57
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.04	0.57
3:D:82:LYS:HB3	9:D:2110:HOH:O	2.03	0.57
3:D:478:LEU:HD12	9:D:2336:HOH:O	2.03	0.57
3:D:809:PRO:O	3:D:812:ALA:HB3	2.04	0.57
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.85	0.57
1:K:182:GLU:O	1:K:194:LYS:HB3	2.04	0.57
2:M:409:ARG:HH12	2:M:444:PRO:HG3	1.69	0.57
3:N:136:ASP:HB3	9:N:9523:HOH:O	2.03	0.57
3:N:591:VAL:HG11	3:N:597:ASP:HA	1.86	0.57
3:N:633:VAL:C	3:N:635:PRO:HD3	2.28	0.57
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.69	0.57
3:N:1439:SER:HB2	3:N:1440:PHE:CD2	2.39	0.57
4:O:40:LEU:HD13	9:O:1900:HOH:O	2.04	0.57
5:P:187:LEU:HD22	5:P:191:ASN:HD21	1.69	0.57
1:A:30:ARG:HH12	2:C:938:LYS:HZ3	1.51	0.57
1:A:211:LEU:O	1:A:215:VAL:HG13	2.04	0.57
1:B:58:ILE:HD12	1:B:140:MET:HE2	1.86	0.57
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.27	0.57
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.69	0.57
2:C:614:ARG:HG3	9:C:9897:HOH:O	2.04	0.57
3:D:1394:VAL:HG11	9:D:2234:HOH:O	2.04	0.57
3:D:1437:ALA:HA	3:D:1440:PHE:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:144:PRO:HA	2:M:163:ILE:HG13	1.86	0.57
2:M:242:LEU:HD21	9:M:2345:HOH:O	2.03	0.57
3:N:817:GLU:O	3:N:821:VAL:HG23	2.03	0.57
3:N:1320:GLU:HG3	9:N:9614:HOH:O	2.04	0.57
3:N:1369:GLU:O	3:N:1372:VAL:HG12	2.03	0.57
4:O:45:ARG:HB3	9:O:1900:HOH:O	2.04	0.57
1:A:90:LEU:HD12	1:A:119:ASP:O	2.04	0.57
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.86	0.57
2:C:319:GLY:HA2	9:C:9429:HOH:O	2.05	0.57
3:D:154:THR:OG1	3:D:156:GLU:HG2	2.04	0.57
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.87	0.57
3:D:958:GLU:HB3	9:D:2309:HOH:O	2.04	0.57
3:D:1164:ARG:HH11	3:D:1164:ARG:HG3	1.70	0.57
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.86	0.57
3:D:1296:SER:HA	9:D:2689:HOH:O	2.03	0.57
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.84	0.57
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.05	0.57
3:N:710:ARG:HH22	3:N:1210:SER:HB2	1.69	0.57
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.70	0.57
1:B:81:ASN:O	1:B:84:GLU:HB3	2.05	0.57
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.87	0.57
2:C:432:ARG:NH1	3:D:1048:PRO:HD2	2.17	0.57
2:C:1008:ARG:HE	2:C:1028:GLY:C	2.12	0.57
3:D:59:ALA:HB3	9:D:9193:HOH:O	2.03	0.57
3:D:141:ILE:HG13	9:D:2754:HOH:O	2.03	0.57
8:D:9001:TGT:H113	9:D:9576:HOH:O	2.03	0.57
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.84	0.57
2:M:134:ARG:HH21	2:M:393:GLN:HA	1.70	0.57
2:M:801:VAL:HG23	9:M:1206:HOH:O	2.04	0.57
2:M:910:LYS:HB2	2:M:913:GLU:OE1	2.03	0.57
3:N:545:ARG:HD2	9:P:707:HOH:O	2.02	0.57
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.40	0.57
3:N:1341:PRO:HA	3:N:1344:VAL:HG23	1.86	0.57
3:N:1412:LYS:HG2	3:N:1414:PRO:HG3	1.85	0.57
5:P:164:LYS:HA	5:P:171:LYS:HZ3	1.69	0.57
2:C:271:GLU:HG2	9:C:9077:HOH:O	2.04	0.57
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.87	0.57
3:D:1105:ILE:HD11	3:D:1374:GLN:HE22	1.69	0.57
4:E:52:GLU:HB3	4:E:55:PHE:CZ	2.40	0.57
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.33	0.57
5:F:290:GLU:HG3	9:F:512:HOH:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:115:LEU:HD13	2:M:373:VAL:HG11	1.87	0.57
2:M:152:PRO:HB3	9:M:2122:HOH:O	2.03	0.57
2:M:194:VAL:HG21	2:M:221:LEU:O	2.04	0.57
2:M:840:ALA:HB1	9:M:1232:HOH:O	2.03	0.57
3:N:404:GLU:HB3	3:N:414:ARG:NE	2.19	0.57
3:N:1051:GLU:HG3	3:N:1051:GLU:O	2.03	0.57
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.19	0.57
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.87	0.57
1:A:14:ARG:CZ	1:A:22:GLU:HB3	2.34	0.57
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.85	0.57
2:C:654:LEU:HD11	2:C:663:ASN:HD22	1.69	0.57
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.86	0.57
3:D:153:LEU:HD12	3:D:154:THR:H	1.70	0.57
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.85	0.57
3:D:756:GLN:O	3:D:760:ARG:HG2	2.04	0.57
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.05	0.57
3:D:1123:PHE:HE2	3:D:1184:GLN:HE21	1.51	0.57
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.05	0.57
1:K:161:ARG:HB2	1:K:161:ARG:CZ	2.35	0.57
1:L:178:ALA:HB1	1:L:198:ARG:HH21	1.70	0.57
2:M:305:PRO:HA	2:M:308:ARG:NE	2.20	0.57
2:M:333:ILE:HD12	2:M:333:ILE:N	2.20	0.57
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.34	0.57
3:N:54:LYS:HB3	9:N:9567:HOH:O	2.04	0.57
3:N:473:LEU:HB2	9:N:2375:HOH:O	2.04	0.57
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.86	0.57
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.87	0.57
4:O:14:ASP:OD1	4:O:18:ARG:HD2	2.04	0.57
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.19	0.57
1:B:46:SER:HB2	9:B:642:HOH:O	2.05	0.57
1:B:140:MET:HG3	9:B:510:HOH:O	2.03	0.57
1:B:186:LEU:O	1:B:186:LEU:HD23	2.04	0.57
2:C:464:LEU:O	2:C:466:PHE:N	2.38	0.57
2:C:585:GLU:HG2	2:C:586:ARG:H	1.70	0.57
2:C:679:PHE:C	3:D:943:THR:HG22	2.30	0.57
3:D:185:VAL:HG12	3:D:191:LEU:HD21	1.86	0.57
3:D:759:ALA:HA	3:D:763:MET:HE2	1.85	0.57
3:D:1025:GLN:HB3	9:D:2121:HOH:O	2.04	0.57
3:D:1393:GLN:HG3	3:D:1398:TRP:HZ2	1.70	0.57
5:F:256:ARG:HD2	9:F:793:HOH:O	2.02	0.57
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:226:SER:O	1:K:228:PRO:HD3	2.05	0.57
1:K:227:ASN:H	1:K:227:ASN:ND2	2.02	0.57
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.70	0.57
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.04	0.57
3:N:172:PRO:HD2	3:N:389:GLU:O	2.04	0.57
3:N:250:LEU:HA	9:N:9526:HOH:O	2.04	0.57
3:N:658:LEU:HD21	3:N:674:ARG:NH1	2.20	0.57
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.69	0.57
3:N:820:GLU:HG3	3:N:836:VAL:CG1	2.34	0.57
1:A:41:ARG:O	1:A:45:LEU:HD12	2.05	0.57
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.86	0.57
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.85	0.57
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.85	0.57
2:C:380:ALA:HA	2:C:383:ARG:HD3	1.87	0.57
2:C:455:LEU:HD23	2:C:455:LEU:H	1.69	0.57
2:C:531:PHE:HB3	9:C:9955:HOH:O	2.05	0.57
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.85	0.57
2:C:1081:VAL:CG2	2:C:1111:ILE:HG22	2.34	0.57
3:D:36:THR:C	3:D:38:LYS:H	2.13	0.57
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.39	0.57
1:L:26:GLU:HG3	1:L:194:LYS:HZ1	1.69	0.57
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.51	0.57
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.10	0.57
3:N:471:GLU:O	3:N:475:LYS:HD3	2.05	0.57
3:N:487:ALA:HA	9:N:9529:HOH:O	2.03	0.57
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.85	0.57
3:N:1391:GLU:HG2	9:N:9461:HOH:O	2.05	0.57
5:P:280:GLN:HB2	9:P:763:HOH:O	2.05	0.57
2:C:516:ARG:CZ	3:D:1068:LEU:HB3	2.35	0.57
2:C:724:ARG:HG3	2:C:741:GLY:N	2.10	0.57
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.70	0.57
3:D:521:PRO:C	3:D:525:ARG:HH11	2.13	0.57
3:D:1068:LEU:HD23	3:D:1071:PHE:HB3	1.86	0.57
4:E:26:ARG:O	4:E:29:GLN:HG2	2.04	0.57
2:M:841:ASN:HB2	9:M:1160:HOH:O	2.05	0.57
2:M:892:LEU:HD21	2:M:967:PHE:CZ	2.40	0.57
3:N:199:LEU:HD21	9:N:9291:HOH:O	2.02	0.57
3:N:543:LEU:O	3:N:546:ARG:HB2	2.04	0.57
5:P:291:ILE:O	5:P:295:MET:HB2	2.05	0.57
5:P:302:LYS:HG2	9:P:484:HOH:O	2.03	0.57
5:P:403:LYS:HA	5:P:403:LYS:HZ2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.40	0.57
3:D:32:ILE:HG23	9:D:9129:HOH:O	2.04	0.57
3:D:194:GLY:N	3:D:206:ARG:HA	2.18	0.57
3:D:510:GLU:O	3:D:513:ILE:HD12	2.04	0.57
3:D:1467:ILE:HA	9:D:9872:HOH:O	2.04	0.57
4:E:18:ARG:HD2	9:E:128:HOH:O	2.05	0.57
2:M:18:LEU:HD23	2:M:404:LEU:HD11	1.85	0.57
2:M:535:SER:HB2	2:M:537:LYS:NZ	2.19	0.57
2:M:759:THR:HB	2:M:785:VAL:CG2	2.34	0.57
3:N:129:PHE:C	3:N:568:ARG:HH21	2.12	0.57
3:N:1289:LYS:HG2	9:N:2244:HOH:O	2.04	0.57
5:P:230:LYS:HE3	9:P:688:HOH:O	2.04	0.57
1:A:219:ARG:HH22	1:B:223:THR:HG22	1.69	0.56
1:B:50:GLY:O	1:B:146:ARG:HA	2.05	0.56
1:B:218:LEU:O	1:B:222:LEU:HG	2.04	0.56
2:C:575:GLN:NE2	2:C:671:ASN:HD22	2.02	0.56
2:C:773:LEU:HD22	5:F:373:LYS:HB2	1.87	0.56
2:C:837:ASP:O	2:C:849:VAL:HG23	2.04	0.56
2:C:1071:ILE:O	3:D:659:LYS:HG2	2.04	0.56
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.69	0.56
3:D:156:GLU:H	3:D:156:GLU:CD	2.13	0.56
3:D:1441:GLN:NE2	3:D:1442:ASN:HB2	2.21	0.56
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.87	0.56
2:M:139:GLN:HG2	2:M:418:LEU:HD22	1.86	0.56
2:M:208:ALA:O	2:M:218:VAL:HG21	2.04	0.56
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.86	0.56
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.86	0.56
3:N:463:GLN:O	3:N:467:GLU:HG3	2.05	0.56
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.85	0.56
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.86	0.56
3:N:783:ARG:HD2	3:N:1029:ARG:CG	2.34	0.56
3:N:1291:SER:HB3	9:N:9681:HOH:O	2.05	0.56
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.70	0.56
5:P:321:ILE:HG22	5:P:322:GLY:N	2.19	0.56
5:P:408:LEU:O	5:P:412:GLU:HG2	2.04	0.56
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.86	0.56
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.88	0.56
2:C:758:ARG:HB3	2:C:788:THR:O	2.05	0.56
2:C:1031:ARG:HG3	2:C:1031:ARG:HH11	1.70	0.56
3:D:130:SER:HA	9:D:9652:HOH:O	2.03	0.56
3:D:168:THR:OG1	3:D:393:ILE:HB	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:513:ILE:HG23	9:D:9275:HOH:O	2.05	0.56
3:D:611:GLN:HB2	9:D:9133:HOH:O	2.05	0.56
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.19	0.56
5:F:234:LYS:HG3	9:F:495:HOH:O	2.05	0.56
5:F:363:GLU:O	5:F:367:MET:HG2	2.05	0.56
1:L:100:LEU:O	1:L:115:LEU:HG	2.05	0.56
1:L:151:VAL:HG21	9:L:7686:HOH:O	2.05	0.56
2:M:70:GLU:HA	9:M:1400:HOH:O	2.04	0.56
2:M:310:LEU:HD21	9:M:1874:HOH:O	2.05	0.56
2:M:791:ARG:HB3	2:M:791:ARG:HH11	1.70	0.56
2:M:848:VAL:HB	3:N:740:PHE:O	2.06	0.56
2:M:906:PHE:CD1	3:N:1067:VAL:HG22	2.40	0.56
2:M:926:PHE:O	2:M:930:LYS:HG3	2.05	0.56
3:N:119:SER:CB	3:N:123:LEU:HB2	2.35	0.56
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.86	0.56
1:A:110:LYS:HD2	9:A:525:HOH:O	2.04	0.56
2:C:12:VAL:HG13	2:C:13:ILE:HG12	1.87	0.56
2:C:91:GLN:HA	2:C:119:PRO:HA	1.88	0.56
2:C:145:GLY:HA3	9:C:9614:HOH:O	2.05	0.56
2:C:151:ASP:HB2	2:C:157:ARG:O	2.05	0.56
2:C:264:PRO:HB3	2:C:289:THR:CB	2.35	0.56
2:C:443:THR:CG2	2:C:450:GLY:H	2.17	0.56
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.04	0.56
2:C:799:ILE:HB	9:C:9536:HOH:O	2.03	0.56
2:C:1115:LEU:HD23	3:D:85:VAL:CA	2.35	0.56
9:C:9607:HOH:O	3:D:943:THR:HG21	2.06	0.56
3:D:42:ASP:O	3:D:46:ASP:HB2	2.05	0.56
3:D:961:LYS:HG2	3:D:962:GLN:N	2.18	0.56
3:D:1394:VAL:HG23	9:D:9862:HOH:O	2.03	0.56
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.86	0.56
4:E:20:THR:HB	9:E:115:HOH:O	2.05	0.56
1:K:96:THR:HG22	1:K:145:ASP:OD2	2.06	0.56
1:K:104:GLU:HG3	9:K:6398:HOH:O	2.04	0.56
1:L:186:LEU:O	1:L:186:LEU:HD23	2.05	0.56
2:M:52:PHE:HZ	2:M:98:LEU:HG	1.71	0.56
2:M:174:LEU:HB2	2:M:310:LEU:HD22	1.87	0.56
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.87	0.56
2:M:276:LYS:O	2:M:280:LYS:HB2	2.05	0.56
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.19	0.56
2:M:621:VAL:HG21	9:M:1969:HOH:O	2.05	0.56
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.56
3:N:922:LEU:HB3	3:N:926:LYS:HD3	1.86	0.56
3:N:999:THR:O	3:N:1002:LYS:HB2	2.06	0.56
3:N:1310:ARG:HG3	3:N:1327:ARG:HB3	1.88	0.56
1:A:222:LEU:HD11	1:B:218:LEU:HD23	1.86	0.56
1:B:212:ASN:O	1:B:215:VAL:HG22	2.05	0.56
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.35	0.56
2:C:69:LEU:HB3	9:C:9545:HOH:O	2.06	0.56
2:C:865:THR:HB	9:C:9509:HOH:O	2.04	0.56
2:C:1103:ASP:O	3:D:7:LYS:HE2	2.06	0.56
3:D:172:PRO:HB2	3:D:389:GLU:OE1	2.06	0.56
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.35	0.56
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.86	0.56
1:K:212:ASN:O	1:K:215:VAL:HG22	2.05	0.56
2:M:5:ARG:CB	2:M:902:ILE:HB	2.35	0.56
3:N:36:THR:C	3:N:38:LYS:H	2.13	0.56
3:N:808:THR:HB	3:N:809:PRO:HD3	1.87	0.56
1:A:52:ALA:HA	9:A:329:HOH:O	2.05	0.56
3:D:374:GLU:HA	9:D:9592:HOH:O	2.06	0.56
3:D:493:ARG:HG2	9:D:9725:HOH:O	2.06	0.56
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.05	0.56
4:E:13:VAL:HG11	4:E:19:LEU:HB2	1.87	0.56
1:K:28:LEU:HA	9:K:3198:HOH:O	2.05	0.56
1:L:5:LYS:O	1:L:8:ALA:HB2	2.06	0.56
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.86	0.56
2:M:76:PRO:HB3	9:M:1386:HOH:O	2.05	0.56
2:M:94:LEU:HG	9:M:2309:HOH:O	2.06	0.56
2:M:395:LYS:HE2	2:M:403:SER:OG	2.06	0.56
2:M:460:ARG:HD3	9:M:1387:HOH:O	2.06	0.56
2:M:503:LEU:HD12	2:M:505:GLY:H	1.68	0.56
2:M:627:ARG:HA	9:M:1127:HOH:O	2.06	0.56
3:N:592:THR:N	3:N:600:LEU:HD21	2.20	0.56
3:N:666:ILE:O	3:N:676:MET:HE2	2.05	0.56
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.04	0.56
2:C:607:ASP:HB3	2:C:609:ASN:H	1.70	0.56
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.88	0.56
2:C:788:THR:HG21	9:C:9498:HOH:O	2.06	0.56
3:D:57:GLU:HG3	3:D:64:LYS:HE3	1.86	0.56
3:D:550:ARG:HA	9:D:9553:HOH:O	2.05	0.56
3:D:1099:VAL:HG13	3:D:1223:ILE:HG23	1.86	0.56
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:261:ILE:HG12	9:M:1716:HOH:O	2.05	0.56
2:M:728:HIS:O	2:M:729:LEU:HG	2.06	0.56
2:M:1000:MET:HB2	9:M:1539:HOH:O	2.05	0.56
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.06	0.56
3:N:368:VAL:HA	9:N:9601:HOH:O	2.05	0.56
3:N:907:GLU:HG2	3:N:908:LYS:H	1.70	0.56
3:N:1114:THR:HG23	3:N:1116:ASN:ND2	2.21	0.56
3:N:1258:ARG:NE	3:N:1262:LEU:HD11	2.20	0.56
5:P:187:LEU:CD2	5:P:191:ASN:HD21	2.18	0.56
2:C:480:THR:HA	9:C:9101:HOH:O	2.04	0.56
2:C:1004:LYS:HE3	9:C:9959:HOH:O	2.05	0.56
2:C:1102:LEU:HB3	9:C:9127:HOH:O	2.04	0.56
3:D:122:GLU:O	3:D:126:VAL:HG23	2.06	0.56
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.35	0.56
3:D:770:LEU:HB2	3:D:1210:SER:O	2.05	0.56
9:D:9365:HOH:O	5:F:75:ILE:HD13	2.03	0.56
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.88	0.56
5:F:278:LEU:O	5:F:282:LEU:HG	2.05	0.56
2:M:41:ASN:O	2:M:46:ALA:HB2	2.06	0.56
2:M:290:LEU:HD22	2:M:302:VAL:HG11	1.86	0.56
2:M:464:LEU:O	2:M:466:PHE:N	2.37	0.56
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.41	0.56
2:M:1096:ALA:C	3:N:13:ALA:HB2	2.30	0.56
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.87	0.56
3:N:530:VAL:HG23	3:N:534:ARG:O	2.06	0.56
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.18	0.56
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.71	0.56
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.87	0.56
5:P:264:MET:O	5:P:267:THR:HB	2.06	0.56
2:C:157:ARG:HA	2:C:157:ARG:HE	1.70	0.56
2:C:287:GLY:HA3	9:C:9623:HOH:O	2.04	0.56
2:C:630:ARG:NH2	2:C:707:ARG:HB2	2.21	0.56
3:D:3:LYS:HB2	9:D:2111:HOH:O	2.05	0.56
3:D:161:LEU:O	3:D:449:SER:HB2	2.05	0.56
3:D:1117:TYR:HE2	3:D:1151:ARG:HH21	1.53	0.56
4:E:54:LEU:HD23	4:E:54:LEU:O	2.06	0.56
2:M:113:VAL:HG12	2:M:115:LEU:HD21	1.88	0.56
2:M:618:GLY:HA2	9:M:1261:HOH:O	2.05	0.56
2:M:722:ILE:HG22	9:M:2019:HOH:O	2.05	0.56
2:M:802:ARG:HB2	9:M:1206:HOH:O	2.05	0.56
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.88	0.56
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.70	0.56
3:N:149:LYS:HA	9:N:9205:HOH:O	2.05	0.56
3:N:569:ASN:ND2	3:N:573:MET:HE1	2.20	0.56
3:N:581:LEU:HD12	3:N:603:LEU:HD11	1.88	0.56
3:N:695:ILE:HG21	3:N:720:LEU:HD11	1.87	0.56
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.06	0.56
2:C:126:SER:HB3	2:C:395:LYS:HZ2	1.70	0.56
2:C:479:VAL:HG23	2:C:506:ASN:HA	1.87	0.56
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.87	0.56
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.88	0.56
3:D:838:ARG:HG2	3:D:865:THR:HG23	1.87	0.56
3:D:1033:GLN:HE21	3:D:1036:ARG:HH12	1.54	0.56
3:D:1087:ARG:HG3	3:D:1234:THR:HA	1.88	0.56
3:D:1136:LYS:HA	9:D:9746:HOH:O	2.04	0.56
4:E:51:LEU:HD12	4:E:52:GLU:H	1.70	0.56
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.88	0.56
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.31	0.56
2:M:144:PRO:HG3	2:M:165:LEU:HB2	1.88	0.56
2:M:794:PRO:HB2	2:M:1027:PHE:CE2	2.40	0.56
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.06	0.56
1:B:12:THR:OG1	1:B:24:VAL:HB	2.05	0.56
1:B:128:HIS:HB3	9:B:620:HOH:O	2.05	0.56
2:C:711:GLU:HG2	2:C:822:VAL:HG12	1.87	0.56
3:D:78:VAL:HG23	9:D:2426:HOH:O	2.05	0.56
3:D:181:ASP:O	3:D:185:VAL:HG23	2.05	0.56
3:D:183:GLU:O	3:D:186:VAL:HG12	2.06	0.56
3:D:394:LEU:HD22	3:D:396:VAL:HB	1.87	0.56
3:D:480:GLU:O	3:D:484:PRO:HD2	2.05	0.56
3:D:544:TYR:O	3:D:548:ILE:HG12	2.06	0.56
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.36	0.56
3:D:1140:ILE:HG21	3:D:1175:ILE:HD11	1.88	0.56
5:F:151:LEU:HB3	9:F:473:HOH:O	2.05	0.56
1:K:161:ARG:HB2	1:K:161:ARG:NH1	2.21	0.56
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.36	0.56
2:M:575:GLN:HB2	9:M:1945:HOH:O	2.06	0.56
2:M:701:THR:HA	2:M:831:ARG:O	2.04	0.56
2:M:1014:SER:HB3	2:M:1017:THR:O	2.05	0.56
3:N:52:PRO:HG2	3:N:79:GLU:O	2.06	0.56
3:N:438:ASP:HB2	9:P:527:HOH:O	2.06	0.56
3:N:553:ARG:HD3	9:P:667:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:672:ALA:HB2	5:P:420:ASP:CG	2.30	0.56
3:N:969:ARG:O	3:N:972:LEU:HB3	2.06	0.56
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.70	0.56
5:P:169:GLU:H	5:P:169:GLU:CD	2.14	0.56
5:P:323:ASP:HB3	5:P:325:LYS:HZ3	1.71	0.56
2:C:83:CYS:HA	2:C:88:LEU:HB2	1.87	0.55
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.87	0.55
2:C:838:LYS:HD2	2:C:846:LYS:HZ2	1.71	0.55
2:C:971:LYS:HB3	2:C:987:ILE:C	2.31	0.55
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.06	0.55
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.87	0.55
3:D:1330:ILE:HD12	3:D:1347:TYR:CE1	2.41	0.55
3:D:1361:VAL:HG23	9:D:9265:HOH:O	2.06	0.55
1:K:57:TYR:CE2	1:K:59:GLU:HA	2.41	0.55
1:L:58:ILE:HG22	9:L:1893:HOH:O	2.06	0.55
2:M:435:TYR:C	2:M:437:ARG:H	2.13	0.55
2:M:551:GLU:HG3	2:M:552:HIS:HD2	1.72	0.55
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.06	0.55
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.35	0.55
3:N:205:TYR:HA	9:N:2314:HOH:O	2.05	0.55
3:N:574:LEU:O	3:N:578:VAL:HG23	2.06	0.55
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.72	0.55
1:B:123:MET:C	1:B:125:PRO:HD3	2.31	0.55
2:C:541:SER:HB2	9:C:9304:HOH:O	2.06	0.55
2:C:717:LEU:HD12	9:C:2230:HOH:O	2.06	0.55
2:C:846:LYS:HD2	9:D:2312:HOH:O	2.05	0.55
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	1.87	0.55
3:D:152:LEU:HD23	3:D:152:LEU:H	1.71	0.55
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.21	0.55
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.05	0.55
3:D:1087:ARG:NE	3:D:1238:MET:HB2	2.21	0.55
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.06	0.55
1:K:143:ARG:HG2	1:K:143:ARG:NH1	2.19	0.55
2:M:1014:SER:OG	5:P:331:ASP:HA	2.06	0.55
3:N:502:PHE:CZ	3:N:512:MET:HE2	2.42	0.55
3:N:637:LEU:HD21	3:N:643:GLY:N	2.20	0.55
3:N:866:VAL:HG11	9:N:9225:HOH:O	2.05	0.55
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.37	0.55
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.86	0.55
1:A:14:ARG:HB3	9:A:383:HOH:O	2.05	0.55
1:B:30:ARG:HA	9:B:332:HOH:O	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.34	0.55
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.86	0.55
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.36	0.55
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.06	0.55
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.89	0.55
2:C:431:HIS:CD2	2:C:433:THR:H	2.24	0.55
2:C:433:THR:O	2:C:437:ARG:HD2	2.07	0.55
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.41	0.55
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.88	0.55
3:D:162:ARG:HH21	3:D:434:ARG:NH2	2.04	0.55
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.88	0.55
3:D:1129:THR:HA	9:D:9951:HOH:O	2.06	0.55
4:E:4:PRO:HA	9:E:103:HOH:O	2.05	0.55
5:F:264:MET:O	5:F:267:THR:HB	2.06	0.55
2:M:404:LEU:HA	2:M:407:LYS:HD2	1.87	0.55
2:M:607:ASP:HB3	2:M:609:ASN:H	1.71	0.55
2:M:674:VAL:HB	2:M:869:VAL:HG12	1.88	0.55
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.88	0.55
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.22	0.55
3:N:903:ASP:HA	9:N:9455:HOH:O	2.06	0.55
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.06	0.55
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.32	0.55
3:N:1434:TRP:NE1	3:N:1435:LEU:HD12	2.21	0.55
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.21	0.55
1:B:2:LEU:HD12	1:B:3:ASP:N	2.21	0.55
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.87	0.55
2:C:101:ILE:HG22	2:C:102:HIS:H	1.71	0.55
2:C:1000:MET:O	2:C:1003:ASP:HB3	2.06	0.55
3:D:790:TYR:CE1	3:D:794:GLN:HG3	2.41	0.55
3:D:1112:CYS:HB2	9:D:9138:HOH:O	2.06	0.55
5:F:156:VAL:HB	9:F:795:HOH:O	2.06	0.55
1:K:198:ARG:C	1:K:199:ILE:HD12	2.32	0.55
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.88	0.55
3:N:159:ARG:HB2	3:N:159:ARG:HH11	1.71	0.55
3:N:536:ALA:HA	5:P:315:VAL:O	2.05	0.55
3:N:1432:LYS:HA	9:N:9471:HOH:O	2.05	0.55
3:N:1464:GLU:HG3	9:N:9821:HOH:O	2.06	0.55
5:P:272:SER:HB2	9:P:681:HOH:O	2.06	0.55
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.89	0.55
2:C:979:THR:HG23	2:C:981:GLU:N	2.10	0.55
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:191:ASN:HA	9:F:669:HOH:O	2.07	0.55
1:L:50:GLY:O	1:L:146:ARG:HA	2.07	0.55
2:M:61:LYS:HE2	9:M:2301:HOH:O	2.07	0.55
2:M:313:LEU:HA	9:M:1315:HOH:O	2.06	0.55
2:M:332:ARG:HE	2:M:464:LEU:HG	1.70	0.55
2:M:370:ALA:HA	9:M:1705:HOH:O	2.07	0.55
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.06	0.55
3:N:183:GLU:O	3:N:186:VAL:HG12	2.06	0.55
3:N:869:MET:HE1	3:N:893:GLU:OE1	2.06	0.55
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.36	0.55
3:N:1493:LYS:HD2	9:N:2138:HOH:O	2.07	0.55
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.22	0.55
1:A:2:LEU:HB3	9:A:364:HOH:O	2.06	0.55
1:A:20:TYR:CD2	1:A:21:GLY:N	2.75	0.55
2:C:281:LEU:CD1	2:C:306:THR:HA	2.35	0.55
2:C:585:GLU:HG2	9:C:9499:HOH:O	2.06	0.55
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.87	0.55
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.72	0.55
3:D:523:ASP:N	9:D:2209:HOH:O	2.39	0.55
3:D:628:ARG:HD3	3:D:744:GLN:CD	2.32	0.55
3:D:724:GLN:C	3:D:724:GLN:HE21	2.15	0.55
3:D:866:VAL:O	3:D:873:LEU:HD12	2.06	0.55
3:D:966:GLU:O	3:D:969:ARG:HG2	2.06	0.55
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.41	0.55
4:E:13:VAL:HA	9:E:162:HOH:O	2.06	0.55
5:F:74:LYS:HA	9:F:802:HOH:O	2.07	0.55
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.07	0.55
2:M:136:ILE:HB	2:M:336:VAL:HG22	1.88	0.55
2:M:397:GLU:H	2:M:633:GLN:CD	2.13	0.55
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.87	0.55
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.42	0.55
2:M:1044:GLY:HA3	4:O:17:TYR:CE1	2.41	0.55
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.36	0.55
3:N:466:LYS:HB2	9:N:9553:HOH:O	2.07	0.55
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.42	0.55
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.06	0.55
3:N:736:PHE:HA	9:N:9145:HOH:O	2.06	0.55
3:N:789:LEU:HD22	3:N:882:PHE:CE1	2.42	0.55
3:N:791:TYR:HB2	9:N:9984:HOH:O	2.07	0.55
3:N:817:GLU:CD	3:N:839:LEU:HD22	2.32	0.55
3:N:828:LYS:N	3:N:828:LYS:HD3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.88	0.55
3:N:937:TYR:HD2	3:N:941:PHE:HE1	1.54	0.55
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.37	0.55
3:N:1258:ARG:HE	3:N:1351:GLU:CD	2.14	0.55
1:A:193:ASP:HB2	9:A:371:HOH:O	2.07	0.55
2:C:508:ILE:HG21	9:C:2036:HOH:O	2.07	0.55
2:C:776:SER:HA	2:C:780:GLU:HB3	1.89	0.55
9:C:9650:HOH:O	4:E:31:LEU:HD21	2.07	0.55
3:D:444:VAL:HG21	9:D:2119:HOH:O	2.06	0.55
3:D:500:ARG:HG3	9:D:9482:HOH:O	2.07	0.55
3:D:551:ASN:O	3:D:555:LYS:HG3	2.06	0.55
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.72	0.55
3:D:969:ARG:O	3:D:972:LEU:HB3	2.07	0.55
3:D:1243:THR:HB	3:D:1253:THR:HG22	1.87	0.55
5:F:222:ARG:O	5:F:225:GLU:HG2	2.07	0.55
5:F:247:ILE:O	5:F:251:ILE:HG13	2.07	0.55
5:F:292:ALA:HB1	5:F:299:TRP:O	2.06	0.55
5:F:400:ILE:HG23	9:F:704:HOH:O	2.07	0.55
1:K:88:ARG:NH1	1:K:90:LEU:HG	2.22	0.55
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.30	0.55
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.35	0.55
2:M:750:LYS:HD2	9:M:2092:HOH:O	2.06	0.55
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	1.88	0.55
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.22	0.55
2:M:1087:VAL:HG12	2:M:1091:GLU:OE1	2.06	0.55
3:N:654:LYS:HD3	3:N:674:ARG:HH22	1.72	0.55
3:N:679:ARG:NH1	3:N:681:ARG:HD2	2.22	0.55
3:N:1346:ARG:HB3	9:N:9264:HOH:O	2.06	0.55
5:P:137:GLY:HA2	9:P:594:HOH:O	2.06	0.55
5:P:271:LEU:HD11	5:P:307:THR:HB	1.88	0.55
1:A:146:ARG:HD3	9:A:550:HOH:O	2.06	0.55
2:C:59:LYS:HA	9:C:9698:HOH:O	2.07	0.55
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.88	0.55
3:D:579:ASP:HB2	9:D:9640:HOH:O	2.06	0.55
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.87	0.55
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.88	0.55
4:E:64:ALA:HA	4:E:67:GLU:CD	2.32	0.55
1:K:152:PRO:HD2	1:K:155:LYS:HG3	1.88	0.55
1:L:80:LEU:HB3	3:N:867:ARG:HH22	1.71	0.55
2:M:31:GLN:HB2	9:M:1251:HOH:O	2.07	0.55
2:M:101:ILE:HG22	2:M:102:HIS:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:269:LEU:HD11	9:M:1235:HOH:O	2.07	0.55
2:M:383:ARG:NH1	2:M:383:ARG:HB2	2.22	0.55
3:N:631:ILE:HG23	3:N:743:ASP:O	2.06	0.55
3:N:925:GLU:OE1	4:O:6:ILE:HG22	2.07	0.55
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.88	0.55
5:P:104:ARG:HD3	9:P:457:HOH:O	2.06	0.55
1:A:79:ILE:HD11	9:C:9944:HOH:O	2.06	0.55
2:C:110:GLU:HG3	9:C:2308:HOH:O	2.07	0.55
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.32	0.55
2:C:160:ALA:O	2:C:173:ASP:HA	2.07	0.55
2:C:276:LYS:O	2:C:280:LYS:HB2	2.07	0.55
2:C:359:MET:HB2	9:C:9403:HOH:O	2.06	0.55
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.15	0.55
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.37	0.55
3:D:508:ARG:HG2	3:D:509:PRO:HD2	1.89	0.55
3:D:710:ARG:HD3	9:D:9920:HOH:O	2.06	0.55
3:D:1059:SER:HB3	9:D:2673:HOH:O	2.06	0.55
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.36	0.55
5:F:273:ARG:HD3	9:F:632:HOH:O	2.07	0.55
5:F:376:ILE:HG22	5:F:377:ASP:OD1	2.06	0.55
1:K:50:GLY:O	1:K:146:ARG:HA	2.07	0.55
1:K:65:PHE:CE1	2:M:799:ILE:HD11	2.42	0.55
2:M:707:ARG:NE	2:M:824:ARG:HG2	2.22	0.55
3:N:149:LYS:HG2	9:N:2323:HOH:O	2.06	0.55
4:O:26:ARG:O	4:O:29:GLN:HG3	2.07	0.55
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.22	0.55
1:B:61:VAL:HG11	1:B:75:VAL:HG21	1.89	0.55
2:C:194:VAL:HG21	2:C:221:LEU:O	2.07	0.55
2:C:360:LEU:HB2	9:C:2222:HOH:O	2.07	0.55
2:C:798:GLY:H	2:C:827:VAL:HG11	1.72	0.55
2:C:1039:ALA:HA	3:D:710:ARG:HA	1.87	0.55
3:D:80:VAL:HG12	3:D:81:THR:O	2.06	0.55
3:D:190:GLU:HG3	3:D:210:ARG:NE	2.22	0.55
3:D:823:LEU:HD11	9:D:9442:HOH:O	2.06	0.55
3:D:854:ALA:HB3	9:D:9585:HOH:O	2.06	0.55
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.70	0.55
3:D:1116:ASN:HB3	9:D:9838:HOH:O	2.07	0.55
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.06	0.55
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.87	0.55
2:M:1014:SER:OG	2:M:1017:THR:HG23	2.06	0.55
9:M:1280:HOH:O	5:P:345:ALA:HB1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:12:LEU:HD23	3:N:13:ALA:H	1.72	0.55
3:N:112:ILE:O	3:N:116:LEU:HB2	2.07	0.55
3:N:194:GLY:N	3:N:206:ARG:HA	2.17	0.55
3:N:464:LEU:HD11	9:N:9487:HOH:O	2.05	0.55
3:N:809:PRO:O	3:N:812:ALA:HB3	2.07	0.55
3:N:1118:ILE:HG21	3:N:1346:ARG:NH2	2.22	0.55
3:N:1246:VAL:HG23	9:N:2017:HOH:O	2.07	0.55
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.07	0.55
3:N:1402:ALA:HA	9:N:2024:HOH:O	2.07	0.55
2:C:41:ASN:ND2	2:C:41:ASN:H	2.05	0.54
2:C:237:ARG:HB3	9:C:2092:HOH:O	2.07	0.54
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.39	0.54
2:C:476:GLY:HA3	9:C:2018:HOH:O	2.06	0.54
3:D:684:LYS:HB3	3:D:686:GLU:HG3	1.88	0.54
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.07	0.54
5:F:134:LYS:HA	5:F:134:LYS:HE3	1.89	0.54
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.71	0.54
2:M:115:LEU:HB3	9:M:1563:HOH:O	2.07	0.54
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.88	0.54
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.88	0.54
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.06	0.54
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.88	0.54
3:N:191:LEU:HD11	9:N:9688:HOH:O	2.07	0.54
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.73	0.54
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.08	0.54
3:N:1237:THR:HG23	9:N:2626:HOH:O	2.07	0.54
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	1.89	0.54
1:A:66:SER:O	1:A:75:VAL:HG23	2.07	0.54
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.89	0.54
1:B:185:ARG:HG3	1:B:190:THR:HG23	1.89	0.54
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.89	0.54
2:C:801:VAL:HG12	9:C:9536:HOH:O	2.07	0.54
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.34	0.54
3:D:588:GLY:HA3	9:D:9281:HOH:O	2.06	0.54
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.89	0.54
3:D:1419:PRO:HG3	9:D:9624:HOH:O	2.06	0.54
3:D:1493:LYS:HD2	9:D:9991:HOH:O	2.06	0.54
5:F:254:GLN:HA	9:F:652:HOH:O	2.06	0.54
5:F:344:ALA:HA	9:F:569:HOH:O	2.07	0.54
2:M:129:ILE:HA	9:M:1586:HOH:O	2.06	0.54
2:M:225:SER:HB2	9:M:1229:HOH:O	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:535:SER:O	2:M:538:GLN:HG2	2.07	0.54
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.88	0.54
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.42	0.54
5:P:269:ASN:O	5:P:273:ARG:HG3	2.07	0.54
5:P:403:LYS:HZ1	5:P:406:ARG:HD2	1.72	0.54
1:A:117:VAL:HG22	9:A:335:HOH:O	2.06	0.54
1:A:191:ASP:O	1:A:192:LEU:HD23	2.08	0.54
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.72	0.54
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.43	0.54
9:D:2160:HOH:O	4:E:61:GLU:HG3	2.07	0.54
5:F:361:LEU:HD21	5:F:404:ALA:HB1	1.89	0.54
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.07	0.54
1:L:123:MET:HG2	9:L:2070:HOH:O	2.06	0.54
2:M:135:VAL:HG21	9:M:1664:HOH:O	2.07	0.54
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.89	0.54
3:N:540:LEU:HD12	3:N:543:LEU:HD11	1.89	0.54
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.89	0.54
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.08	0.54
1:B:8:ALA:HB3	9:B:351:HOH:O	2.06	0.54
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.31	0.54
2:C:472:ARG:HD2	2:C:480:THR:O	2.07	0.54
3:D:133:ILE:HG22	3:D:455:ARG:N	2.22	0.54
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.32	0.54
3:D:817:GLU:O	3:D:821:VAL:HG23	2.07	0.54
3:D:1236:LEU:HD12	3:D:1256:LEU:HD12	1.89	0.54
5:F:185:GLN:HA	9:F:445:HOH:O	2.06	0.54
5:F:249:ARG:HH21	5:F:262:VAL:CG2	2.21	0.54
1:L:154:GLU:OE2	3:N:840:LYS:HD2	2.07	0.54
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.43	0.54
2:M:409:ARG:NH1	2:M:444:PRO:HG3	2.23	0.54
2:M:799:ILE:HD13	2:M:799:ILE:N	2.23	0.54
2:M:909:ALA:C	2:M:910:LYS:HD2	2.32	0.54
3:N:483:HIS:N	3:N:483:HIS:HD1	2.05	0.54
3:N:698:LYS:HD2	9:N:9171:HOH:O	2.06	0.54
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.38	0.54
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.38	0.54
5:P:87:GLU:HG3	9:P:720:HOH:O	2.06	0.54
2:C:63:GLY:O	2:C:103:LYS:HE2	2.08	0.54
2:C:260:LEU:HD12	9:C:9623:HOH:O	2.08	0.54
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.43	0.54
2:C:537:LYS:HD2	2:C:537:LYS:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:697:ARG:HG3	2:C:699:PHE:CD1	2.42	0.54
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.90	0.54
3:D:164:GLY:HA2	9:D:9177:HOH:O	2.07	0.54
3:D:212:ARG:HB2	3:D:445:ARG:HH22	1.72	0.54
5:F:97:GLU:N	9:F:641:HOH:O	2.40	0.54
5:F:302:LYS:HG3	5:F:303:ARG:N	2.22	0.54
1:K:92:PRO:HD3	9:K:5415:HOH:O	2.06	0.54
2:M:265:ARG:HG2	2:M:266:ARG:N	2.23	0.54
2:M:368:THR:HG22	9:M:1143:HOH:O	2.08	0.54
2:M:838:LYS:HG2	9:M:1281:HOH:O	2.07	0.54
3:N:424:GLY:HA2	3:N:435:VAL:O	2.07	0.54
3:N:435:VAL:HG21	9:N:9419:HOH:O	2.07	0.54
3:N:737:ASN:HA	9:N:2508:HOH:O	2.06	0.54
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.08	0.54
5:P:125:ASP:HB2	9:P:516:HOH:O	2.07	0.54
1:A:50:GLY:O	1:A:146:ARG:HA	2.07	0.54
2:C:183:SER:HB2	2:C:190:LYS:CG	2.37	0.54
2:C:302:VAL:C	2:C:305:PRO:HD2	2.33	0.54
2:C:407:LYS:HG2	9:C:9933:HOH:O	2.07	0.54
2:C:815:LEU:HD21	2:C:820:ARG:O	2.08	0.54
3:D:153:LEU:HD12	3:D:154:THR:N	2.23	0.54
3:D:559:ALA:O	5:F:132:ARG:NH2	2.38	0.54
3:D:619:LEU:HB2	9:D:9918:HOH:O	2.06	0.54
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.89	0.54
4:E:86:GLN:O	4:E:90:GLU:HG3	2.08	0.54
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.89	0.54
2:M:530:GLU:HG2	9:M:1593:HOH:O	2.07	0.54
3:N:34:TYR:CE1	5:P:264:MET:HE2	2.43	0.54
3:N:538:SER:N	5:P:317:LEU:HD12	2.23	0.54
3:N:540:LEU:O	3:N:543:LEU:HG	2.07	0.54
3:N:615:ARG:HB2	9:N:2415:HOH:O	2.06	0.54
3:N:861:GLN:CD	3:N:861:GLN:H	2.16	0.54
3:N:1211:MET:HE2	9:O:1421:HOH:O	2.07	0.54
3:N:1340:GLY:HA2	9:N:2126:HOH:O	2.07	0.54
5:P:321:ILE:HB	5:P:327:SER:OG	2.08	0.54
1:A:69:PRO:HD3	9:A:508:HOH:O	2.08	0.54
1:A:86:VAL:HA	9:A:482:HOH:O	2.08	0.54
1:A:90:LEU:HB3	9:A:368:HOH:O	2.07	0.54
1:A:219:ARG:NH2	1:B:223:THR:HG22	2.23	0.54
1:B:147:GLY:HA3	9:B:625:HOH:O	2.06	0.54
2:C:196:LEU:CD2	2:C:200:LEU:HD11	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:746:GLY:C	2:C:799:ILE:HG22	2.32	0.54
2:C:839:LEU:HD12	2:C:994:ILE:HG21	1.89	0.54
2:C:1008:ARG:HH22	2:C:1012:PRO:HD2	1.73	0.54
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	2.08	0.54
2:C:1098:ASP:C	2:C:1098:ASP:OD1	2.50	0.54
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.42	0.54
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.89	0.54
3:D:423:ASP:HA	9:D:9719:HOH:O	2.07	0.54
3:D:647:ARG:NH1	3:D:650:LEU:HD23	2.23	0.54
3:D:1209:LEU:HD13	3:D:1211:MET:HE2	1.90	0.54
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.87	0.54
5:F:93:LEU:HD21	5:F:102:LEU:HD11	1.88	0.54
1:K:125:PRO:HD2	9:K:3406:HOH:O	2.06	0.54
2:M:102:HIS:HD2	2:M:104:ASP:HB2	1.73	0.54
2:M:163:ILE:HG13	2:M:163:ILE:O	2.08	0.54
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.90	0.54
2:M:627:ARG:HG3	9:M:1580:HOH:O	2.08	0.54
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.89	0.54
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.72	0.54
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.89	0.54
3:N:1297:GLU:HA	9:N:9439:HOH:O	2.06	0.54
5:P:229:TYR:HB3	9:P:557:HOH:O	2.08	0.54
1:A:107:LYS:HB3	9:A:531:HOH:O	2.07	0.54
1:A:137:ARG:HD3	9:A:518:HOH:O	2.08	0.54
2:C:665:PHE:HA	9:C:9558:HOH:O	2.08	0.54
3:D:880:ILE:O	3:D:883:ALA:HB3	2.08	0.54
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.23	0.54
1:K:189:ARG:HB3	9:K:2117:HOH:O	2.06	0.54
1:L:7:LYS:HG2	9:L:6833:HOH:O	2.07	0.54
2:M:143:SER:HB3	2:M:330:ASN:O	2.07	0.54
2:M:682:TYR:N	9:M:1161:HOH:O	2.41	0.54
2:M:1103:ASP:HB3	2:M:1105:LYS:O	2.08	0.54
3:N:833:GLU:HB2	9:N:2343:HOH:O	2.08	0.54
1:A:39:PRO:O	1:A:43:ILE:HG12	2.08	0.54
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.89	0.54
2:C:432:ARG:HH12	3:D:1047:LYS:CD	2.16	0.54
2:C:538:GLN:HB2	9:C:9427:HOH:O	2.08	0.54
3:D:2:LYS:HB2	9:D:2382:HOH:O	2.07	0.54
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.90	0.54
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.33	0.54
3:D:1211:MET:HG3	3:D:1213:ARG:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.07	0.54
3:D:1304:LYS:HB3	9:D:9262:HOH:O	2.07	0.54
9:D:2706:HOH:O	5:F:94:LEU:HD11	2.08	0.54
2:M:91:GLN:HA	2:M:119:PRO:HA	1.89	0.54
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.34	0.54
2:M:420:ARG:H	2:M:420:ARG:CZ	2.20	0.54
2:M:1048:THR:O	2:M:1052:MET:HE2	2.08	0.54
9:M:1734:HOH:O	3:N:603:LEU:HB3	2.08	0.54
3:N:42:ASP:O	3:N:46:ASP:HB2	2.08	0.54
3:N:151:GLN:HA	9:N:9372:HOH:O	2.07	0.54
5:P:122:LEU:HD11	5:P:126:LEU:HD23	1.90	0.54
5:P:370:LYS:NZ	5:P:370:LYS:HB3	2.23	0.54
1:A:83:LYS:HD3	9:C:9911:HOH:O	2.08	0.54
1:A:126:ASP:HB2	9:A:319:HOH:O	2.06	0.54
1:B:7:LYS:HD3	9:B:350:HOH:O	2.08	0.54
1:B:125:PRO:HD2	9:B:330:HOH:O	2.06	0.54
2:C:134:ARG:HB2	9:C:9111:HOH:O	2.08	0.54
2:C:577:PRO:HD2	2:C:580:MET:SD	2.48	0.54
2:C:704:HIS:CG	2:C:831:ARG:HE	2.26	0.54
2:C:1106:ASP:C	2:C:1107:ASN:HD22	2.16	0.54
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.89	0.54
3:D:407:VAL:HG11	9:D:9989:HOH:O	2.07	0.54
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.37	0.54
4:E:29:GLN:HB2	4:E:33:HIS:CD2	2.43	0.54
5:F:314:PRO:HD2	9:F:541:HOH:O	2.07	0.54
1:K:86:VAL:HG13	1:K:124:ASN:HB2	1.88	0.54
2:M:178:PRO:HB2	9:M:1868:HOH:O	2.08	0.54
2:M:260:LEU:HD13	2:M:291:ALA:HB1	1.89	0.54
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.89	0.54
2:M:525:SER:OG	2:M:528:GLU:HG3	2.08	0.54
2:M:701:THR:HG22	2:M:832:LYS:HA	1.90	0.54
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.07	0.54
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.33	0.54
3:N:639:LEU:HD12	3:N:640:HIS:H	1.73	0.54
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.23	0.54
3:N:774:SER:HB3	3:N:1362:LYS:O	2.08	0.54
3:N:1362:LYS:HD2	9:N:9154:HOH:O	2.08	0.54
9:N:9235:HOH:O	4:O:84:ARG:HG2	2.08	0.54
1:A:23:PHE:CD1	1:A:211:LEU:HD23	2.43	0.53
2:C:557:ARG:HA	2:C:560:MET:HG3	1.90	0.53
2:C:630:ARG:NH2	2:C:706:GLU:C	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1019:GLN:NE2	3:D:621:LYS:HG2	2.23	0.53
3:D:27:GLU:C	3:D:28:LYS:HD2	2.33	0.53
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.90	0.53
3:D:786:ILE:HD13	3:D:908:LYS:HB3	1.89	0.53
3:D:1308:GLU:HG3	9:D:9479:HOH:O	2.07	0.53
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.33	0.53
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.08	0.53
4:E:10:PHE:HE2	4:E:16:LYS:HG3	1.73	0.53
1:K:9:PRO:HD3	9:K:7377:HOH:O	2.09	0.53
1:K:143:ARG:HD2	1:K:145:ASP:OD1	2.07	0.53
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.42	0.53
2:M:57:GLU:OE1	2:M:63:GLY:HA2	2.09	0.53
2:M:370:ALA:HB1	9:P:652:HOH:O	2.07	0.53
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.33	0.53
3:N:534:ARG:HG3	9:P:700:HOH:O	2.07	0.53
3:N:1439:SER:HB2	3:N:1440:PHE:CE2	2.43	0.53
5:P:201:LYS:HA	9:P:769:HOH:O	2.08	0.53
1:A:5:LYS:O	1:A:8:ALA:HB2	2.08	0.53
1:A:34:VAL:HG21	2:C:939:ARG:HD2	1.90	0.53
1:A:127:LEU:C	1:A:127:LEU:HD12	2.33	0.53
1:B:49:PRO:HA	9:B:484:HOH:O	2.07	0.53
2:C:48:PHE:HD1	2:C:348:LEU:HD11	1.72	0.53
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.91	0.53
2:C:617:ASP:HB2	9:C:2129:HOH:O	2.08	0.53
2:C:771:GLU:HA	9:C:9832:HOH:O	2.07	0.53
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.41	0.53
3:D:147:VAL:HG11	9:D:9673:HOH:O	2.09	0.53
3:D:213:VAL:HG22	3:D:214:GLU:N	2.23	0.53
3:D:536:ALA:HB1	5:F:317:LEU:HG	1.90	0.53
3:D:1008:PHE:HD1	9:D:9273:HOH:O	1.91	0.53
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.38	0.53
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.23	0.53
2:M:141:HIS:HB2	9:M:2114:HOH:O	2.08	0.53
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.89	0.53
3:N:1186:VAL:HG12	9:N:9329:HOH:O	2.07	0.53
3:N:1381:VAL:HG12	3:N:1389:LEU:HA	1.89	0.53
5:P:181:GLU:O	5:P:184:ARG:HB3	2.09	0.53
1:B:5:LYS:O	1:B:8:ALA:HB2	2.08	0.53
2:C:467:ILE:HG22	9:C:9653:HOH:O	2.09	0.53
2:C:565:GLN:HA	2:C:995:MET:HE1	1.88	0.53
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:42:ASP:O	3:D:43:GLY:O	2.26	0.53
3:D:493:ARG:HH12	3:D:1390:LEU:H	1.56	0.53
3:D:583:ASP:HA	3:D:602:SER:OG	2.08	0.53
3:D:699:VAL:H	3:D:756:GLN:HE22	1.53	0.53
1:K:25:LEU:HD22	1:K:28:LEU:HD11	1.89	0.53
1:L:92:PRO:HB3	9:L:3281:HOH:O	2.07	0.53
1:L:212:ASN:O	1:L:215:VAL:HG22	2.08	0.53
2:M:300:ASP:HB2	9:M:1355:HOH:O	2.08	0.53
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.72	0.53
9:M:2111:HOH:O	3:N:1086:LEU:HD12	2.08	0.53
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.90	0.53
4:O:7:ASP:HB2	9:O:1394:HOH:O	2.07	0.53
5:P:156:VAL:HG21	9:P:654:HOH:O	2.07	0.53
1:A:2:LEU:HD23	9:A:444:HOH:O	2.08	0.53
1:A:49:PRO:O	1:A:173:PRO:HG2	2.08	0.53
2:C:302:VAL:O	2:C:306:THR:HG23	2.09	0.53
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.33	0.53
2:C:611:ILE:HD12	2:C:625:LEU:HD21	1.89	0.53
2:C:676:ILE:HG23	3:D:948:THR:HB	1.91	0.53
2:C:1054:THR:HG22	2:C:1082:PRO:HG3	1.90	0.53
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.44	0.53
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.34	0.53
3:D:797:LYS:HZ3	3:D:1016:PRO:HB3	1.72	0.53
3:D:844:ALA:O	3:D:867:ARG:HB3	2.09	0.53
3:D:1239:ARG:NH2	3:D:1254:GLN:H	2.04	0.53
3:D:1380:GLU:HB2	9:D:9967:HOH:O	2.08	0.53
2:M:466:PHE:HA	9:M:1427:HOH:O	2.08	0.53
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.91	0.53
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.90	0.53
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.88	0.53
1:A:26:GLU:HG3	1:A:194:LYS:HD3	1.91	0.53
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.89	0.53
2:C:516:ARG:HG3	3:D:1068:LEU:HD13	1.90	0.53
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.73	0.53
2:C:1057:SER:N	9:C:9391:HOH:O	2.41	0.53
2:C:1094:ALA:CB	3:D:603:LEU:HD22	2.38	0.53
3:D:148:GLU:HA	9:D:9225:HOH:O	2.08	0.53
3:D:214:GLU:CD	3:D:390:PRO:HB2	2.33	0.53
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	2.24	0.53
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.22	0.53
1:L:182:GLU:HB3	9:N:9274:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:71:TYR:H	2:M:71:TYR:HD2	1.53	0.53
2:M:394:PHE:HB3	9:M:2270:HOH:O	2.07	0.53
3:N:517:VAL:HG23	9:N:9412:HOH:O	2.09	0.53
3:N:1324:PRO:HA	9:N:9480:HOH:O	2.08	0.53
5:P:329:TYR:HA	5:P:332:PHE:CD2	2.43	0.53
1:A:191:ASP:HA	9:A:415:HOH:O	2.08	0.53
1:B:180:GLN:HA	9:B:451:HOH:O	2.08	0.53
2:C:41:ASN:O	2:C:46:ALA:HB2	2.08	0.53
2:C:99:GLN:HB2	9:C:2009:HOH:O	2.09	0.53
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.89	0.53
2:C:642:ARG:HB3	9:C:9549:HOH:O	2.08	0.53
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.91	0.53
3:D:587:ARG:HH21	5:F:74:LYS:N	2.06	0.53
3:D:706:PRO:HD2	9:D:2458:HOH:O	2.07	0.53
3:D:1068:LEU:C	3:D:1070:TYR:N	2.63	0.53
3:D:1403:LEU:HD23	3:D:1407:LEU:HD22	1.90	0.53
2:M:69:LEU:HD13	9:M:1301:HOH:O	2.09	0.53
2:M:351:LEU:HB2	9:M:1300:HOH:O	2.08	0.53
3:N:18:ILE:HD13	3:N:21:TRP:HZ3	1.74	0.53
3:N:55:ASP:O	3:N:82:LYS:HA	2.09	0.53
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.38	0.53
3:N:699:VAL:H	3:N:756:GLN:HE22	1.56	0.53
3:N:829:VAL:HG11	9:N:9969:HOH:O	2.07	0.53
3:N:1122:LEU:O	3:N:1134:LEU:HG	2.07	0.53
3:N:1264:GLU:OE1	3:N:1425:THR:HB	2.08	0.53
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.90	0.53
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.89	0.53
1:A:152:PRO:HB3	2:C:832:LYS:NZ	2.24	0.53
2:C:240:THR:HG23	9:C:2111:HOH:O	2.08	0.53
2:C:682:TYR:N	9:C:9083:HOH:O	2.42	0.53
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.91	0.53
3:D:95:LEU:HD21	3:D:547:LEU:HD11	1.91	0.53
3:D:574:LEU:O	3:D:578:VAL:HG23	2.08	0.53
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.91	0.53
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.09	0.53
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.08	0.53
5:F:228:GLU:HB3	5:F:231:ARG:HD2	1.91	0.53
5:F:327:SER:HA	9:F:494:HOH:O	2.09	0.53
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.91	0.53
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.91	0.53
2:M:355:VAL:HG11	9:M:2137:HOH:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:401:LEU:HD22	2:M:546:LEU:HD12	1.90	0.53
2:M:474:VAL:HG23	2:M:478:VAL:O	2.09	0.53
2:M:519:GLY:HA3	9:M:1578:HOH:O	2.07	0.53
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.30	0.53
2:M:1018:GLN:HG2	9:M:1375:HOH:O	2.07	0.53
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.38	0.53
3:N:502:PHE:HZ	3:N:512:MET:HE2	1.73	0.53
2:C:9:ILE:HG13	2:C:9:ILE:O	2.09	0.53
2:C:13:ILE:HB	9:C:9332:HOH:O	2.08	0.53
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.91	0.53
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.89	0.53
9:C:2137:HOH:O	3:D:1068:LEU:HD21	2.09	0.53
3:D:62:LYS:HB3	3:D:63:TYR:CD1	2.44	0.53
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.09	0.53
3:D:850:LEU:HD12	3:D:851:LEU:HD23	1.91	0.53
5:F:148:LYS:HE3	9:F:702:HOH:O	2.09	0.53
1:K:227:ASN:HD22	1:K:227:ASN:N	2.07	0.53
2:M:520:GLU:O	2:M:522:VAL:HG23	2.09	0.53
2:M:859:PRO:O	2:M:867:VAL:HG22	2.07	0.53
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.36	0.53
3:N:186:VAL:HG13	3:N:187:LYS:N	2.24	0.53
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.08	0.53
3:N:679:ARG:HB2	3:N:682:ASP:OD2	2.08	0.53
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.91	0.53
3:N:783:ARG:CD	3:N:1029:ARG:HG2	2.35	0.53
3:N:799:LYS:H	3:N:826:PRO:HG2	1.73	0.53
3:N:1496:GLU:HA	3:N:1499:ARG:HD2	1.89	0.53
4:O:90:GLU:HG2	9:O:1556:HOH:O	2.08	0.53
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.09	0.53
5:P:414:ARG:HG2	9:P:634:HOH:O	2.08	0.53
1:A:189:ARG:HH12	1:B:155:LYS:HE3	1.73	0.53
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.44	0.53
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.90	0.53
2:C:137:VAL:O	2:C:391:LEU:HD21	2.08	0.53
2:C:522:VAL:HG21	9:C:9199:HOH:O	2.08	0.53
9:C:9471:HOH:O	3:D:681:ARG:HG2	2.09	0.53
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.91	0.53
3:D:1020:LEU:HA	3:D:1023:MET:HE3	1.90	0.53
2:M:20:GLU:HA	9:M:1925:HOH:O	2.08	0.53
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.91	0.53
2:M:264:PRO:HB3	2:M:289:THR:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.74	0.53
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.39	0.53
3:N:181:ASP:O	3:N:185:VAL:HG23	2.09	0.53
3:N:549:ASN:OD1	5:P:254:GLN:HB3	2.09	0.53
3:N:767:HIS:CE1	4:O:6:ILE:HG21	2.44	0.53
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.43	0.53
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.91	0.53
1:A:140:MET:SD	1:A:142:VAL:HG12	2.49	0.53
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.74	0.53
2:C:839:LEU:HD21	2:C:849:VAL:HG22	1.90	0.53
2:C:945:ARG:HG2	2:C:946:ARG:N	2.24	0.53
2:C:1051:GLU:CD	3:D:751:LEU:H	2.15	0.53
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.38	0.53
3:D:178:LEU:HD11	9:D:2152:HOH:O	2.08	0.53
3:D:1331:ASP:HB2	9:D:2058:HOH:O	2.08	0.53
5:F:420:ASP:O	5:F:422:LEU:HD23	2.09	0.53
1:L:220:GLU:HB3	9:L:2385:HOH:O	2.07	0.53
2:M:148:PHE:CZ	2:M:309:TYR:HB3	2.44	0.53
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.44	0.53
2:M:984:GLU:HG3	3:N:944:THR:O	2.09	0.53
3:N:47:GLU:OE1	3:N:53:ILE:HG22	2.08	0.53
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.24	0.53
3:N:135:LEU:HA	3:N:453:ASP:O	2.09	0.53
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.38	0.53
3:N:1491:THR:OG1	4:O:89:MET:HE1	2.09	0.53
5:P:150:THR:HG23	9:P:752:HOH:O	2.09	0.53
5:P:397:ILE:O	5:P:401:GLU:HB3	2.09	0.53
5:P:401:GLU:O	5:P:405:LEU:HB2	2.09	0.53
1:A:178:ALA:HB2	2:C:864:GLY:H	1.75	0.52
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.91	0.52
1:B:191:ASP:O	1:B:192:LEU:HG	2.08	0.52
2:C:413:LEU:HD12	2:C:413:LEU:N	2.23	0.52
2:C:535:SER:O	2:C:538:GLN:HG2	2.08	0.52
3:D:60:CYS:N	9:D:9193:HOH:O	2.42	0.52
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.90	0.52
3:D:531:ASP:C	3:D:533:GLY:N	2.67	0.52
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.09	0.52
3:D:631:ILE:HG12	3:D:743:ASP:O	2.09	0.52
3:D:970:LYS:O	3:D:974:ILE:HG13	2.08	0.52
4:E:45:ARG:O	4:E:47:LYS:HE3	2.09	0.52
5:F:361:LEU:HD23	5:F:362:SER:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:67:THR:HG22	9:L:1762:HOH:O	2.08	0.52
1:L:79:ILE:HA	1:L:82:LEU:HD12	1.90	0.52
1:L:102:LYS:HD2	1:L:139:ASN:ND2	2.24	0.52
2:M:84:ARG:NH2	2:M:128:ILE:HG12	2.24	0.52
2:M:431:HIS:HA	9:M:1910:HOH:O	2.09	0.52
3:N:583:ASP:OD2	3:N:604:THR:HG21	2.08	0.52
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.39	0.52
3:N:625:TYR:O	3:N:749:VAL:HG23	2.08	0.52
3:N:1312:LEU:HB3	9:N:9173:HOH:O	2.09	0.52
1:A:115:LEU:HB2	9:A:400:HOH:O	2.10	0.52
1:A:186:LEU:HB3	9:A:343:HOH:O	2.09	0.52
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.22	0.52
1:B:110:LYS:HG2	9:B:464:HOH:O	2.09	0.52
2:C:146:VAL:HG13	2:C:161:SER:O	2.09	0.52
2:C:264:PRO:HB2	9:C:9113:HOH:O	2.08	0.52
2:C:739:GLU:HG3	9:C:9293:HOH:O	2.07	0.52
3:D:907:GLU:HA	9:D:9142:HOH:O	2.10	0.52
5:F:413:SER:HA	5:F:416:ARG:CZ	2.38	0.52
1:K:20:TYR:CD2	1:K:21:GLY:N	2.77	0.52
1:L:102:LYS:HB2	1:L:139:ASN:OD1	2.09	0.52
2:M:109:LYS:HB2	9:M:2109:HOH:O	2.08	0.52
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.92	0.52
2:M:405:ARG:HH11	2:M:442:GLU:HG2	1.74	0.52
2:M:514:VAL:HG22	9:M:1440:HOH:O	2.09	0.52
3:N:119:SER:N	3:N:123:LEU:HD13	2.24	0.52
3:N:470:LEU:HG	3:N:508:ARG:NH2	2.25	0.52
3:N:533:GLY:HA3	5:P:309:LYS:HD2	1.90	0.52
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.90	0.52
3:N:1415:VAL:HG22	9:N:2024:HOH:O	2.09	0.52
2:C:135:VAL:O	2:C:392:SER:HA	2.10	0.52
2:C:339:LEU:HD22	2:C:391:LEU:HD22	1.91	0.52
2:C:447:ALA:HB2	9:D:2205:HOH:O	2.10	0.52
2:C:599:GLU:HG2	9:C:9491:HOH:O	2.10	0.52
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.91	0.52
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.39	0.52
3:D:659:LYS:O	3:D:659:LYS:HD3	2.09	0.52
5:F:321:ILE:HG22	5:F:322:GLY:N	2.24	0.52
1:L:75:VAL:HA	1:L:78:ILE:HD12	1.92	0.52
2:M:83:CYS:HA	2:M:88:LEU:HD23	1.91	0.52
2:M:174:LEU:HB3	2:M:193:LEU:HD21	1.92	0.52
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:455:LEU:HG	2:M:459:ALA:HB3	1.91	0.52
2:M:654:LEU:HD12	2:M:657:ASP:OD2	2.09	0.52
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.91	0.52
3:N:28:LYS:O	3:N:43:GLY:HA2	2.10	0.52
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.10	0.52
5:P:322:GLY:HA3	9:P:573:HOH:O	2.09	0.52
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.45	0.52
1:A:156:HIS:CD2	1:A:158:ILE:HG12	2.45	0.52
1:B:38:ASN:OD1	2:C:979:THR:HA	2.09	0.52
2:C:5:ARG:HB2	9:C:9522:HOH:O	2.09	0.52
2:C:101:ILE:HG22	2:C:102:HIS:N	2.24	0.52
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.91	0.52
2:C:244:PRO:CD	2:C:245:GLY:H	2.21	0.52
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.90	0.52
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.38	0.52
2:C:387:SER:OG	2:C:388:ARG:HD3	2.09	0.52
2:C:473:ARG:HH11	2:C:475:VAL:CG2	2.23	0.52
2:C:640:ARG:HG3	9:C:9864:HOH:O	2.10	0.52
3:D:62:LYS:HD3	9:D:2486:HOH:O	2.08	0.52
3:D:111:LYS:HZ3	3:D:1452:ILE:HB	1.73	0.52
3:D:603:LEU:HA	3:D:606:ILE:HG13	1.90	0.52
3:D:1124:GLN:HG2	9:D:2004:HOH:O	2.09	0.52
5:F:175:HIS:O	5:F:179:GLU:HG2	2.09	0.52
5:F:186:HIS:HB3	9:F:444:HOH:O	2.08	0.52
5:F:220:LEU:O	5:F:224:VAL:HG23	2.08	0.52
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.92	0.52
2:M:424:GLY:O	2:M:427:VAL:HG23	2.09	0.52
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.90	0.52
2:M:625:LEU:HB3	2:M:639:GLN:HG3	1.90	0.52
2:M:946:ARG:NH2	3:N:859:ASP:HB3	2.25	0.52
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.39	0.52
2:M:1072:LYS:HB2	9:M:2094:HOH:O	2.10	0.52
3:N:40:GLU:HG3	3:N:41:ARG:N	2.25	0.52
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.91	0.52
3:N:669:ASN:O	3:N:672:ALA:HB3	2.09	0.52
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.92	0.52
4:O:48:MET:HB2	4:O:54:LEU:CD1	2.39	0.52
4:O:72:ARG:HA	9:O:4488:HOH:O	2.09	0.52
1:A:71:VAL:HG22	9:A:468:HOH:O	2.09	0.52
2:C:176:VAL:C	2:C:178:PRO:HD3	2.34	0.52
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:452:ILE:HG13	9:C:9147:HOH:O	2.09	0.52
2:C:949:LYS:HD3	3:D:828:LYS:HE3	1.90	0.52
3:D:159:ARG:CZ	3:D:159:ARG:HB2	2.39	0.52
3:D:435:VAL:HG22	3:D:446:VAL:HG13	1.92	0.52
3:D:669:ASN:O	3:D:672:ALA:HB3	2.09	0.52
3:D:679:ARG:HB2	3:D:682:ASP:CG	2.34	0.52
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.20	0.52
3:D:1267:ARG:HB2	3:D:1267:ARG:HH11	1.74	0.52
3:D:1503:VAL:HG21	9:D:2589:HOH:O	2.08	0.52
5:F:142:ARG:HD2	9:F:540:HOH:O	2.09	0.52
5:F:291:ILE:O	5:F:295:MET:HB2	2.09	0.52
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.10	0.52
2:M:53:PRO:HD3	9:M:1140:HOH:O	2.10	0.52
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.39	0.52
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.40	0.52
2:M:759:THR:HA	2:M:786:LYS:O	2.09	0.52
3:N:49:ILE:HB	3:N:50:PHE:CE1	2.45	0.52
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.40	0.52
3:N:422:ALA:H	3:N:427:VAL:CG1	2.18	0.52
3:N:1101:VAL:HG11	3:N:1424:VAL:HG22	1.90	0.52
1:B:101:LEU:HG	1:B:114:PHE:HA	1.91	0.52
2:C:464:LEU:HD12	2:C:465:GLY:H	1.74	0.52
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.52
2:C:630:ARG:HH22	2:C:707:ARG:CB	2.23	0.52
3:D:455:ARG:HG2	9:D:2383:HOH:O	2.09	0.52
3:D:564:GLU:OE1	3:D:567:ILE:HD12	2.08	0.52
3:D:686:GLU:HA	9:D:9222:HOH:O	2.09	0.52
3:D:728:LEU:HD22	3:D:745:MET:SD	2.49	0.52
3:D:814:ALA:O	3:D:818:ARG:HG3	2.10	0.52
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.70	0.52
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.10	0.52
1:K:186:LEU:HB2	1:K:192:LEU:CD1	2.34	0.52
2:M:140:ILE:HD11	9:M:1329:HOH:O	2.09	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.91	0.52
2:M:721:ARG:O	2:M:758:ARG:HA	2.10	0.52
3:N:679:ARG:NH2	3:N:681:ARG:HE	2.07	0.52
3:N:964:LEU:CD1	3:N:1058:ARG:HD2	2.39	0.52
5:P:119:ILE:HD11	9:P:794:HOH:O	2.09	0.52
1:B:131:THR:HG21	9:B:512:HOH:O	2.10	0.52
2:C:220:GLY:HA3	9:C:9124:HOH:O	2.10	0.52
2:C:418:LEU:N	2:C:418:LEU:HD12	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.24	0.52
3:D:12:LEU:HB2	9:D:9480:HOH:O	2.09	0.52
3:D:81:THR:HG22	3:D:82:LYS:H	1.75	0.52
3:D:97:THR:HB	9:D:9846:HOH:O	2.09	0.52
3:D:141:ILE:CD1	3:D:450:TYR:HB2	2.32	0.52
3:D:212:ARG:HD3	3:D:445:ARG:NH1	2.24	0.52
3:D:556:LYS:HE2	9:F:624:HOH:O	2.08	0.52
3:D:647:ARG:O	3:D:647:ARG:HD3	2.10	0.52
3:D:939:PHE:O	3:D:943:THR:HG23	2.10	0.52
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.10	0.52
3:D:1330:ILE:HG21	3:D:1335:LEU:HD12	1.91	0.52
1:K:170:VAL:HG11	9:K:2028:HOH:O	2.09	0.52
1:L:206:THR:HG22	1:L:209:GLU:H	1.75	0.52
1:L:227:ASN:HB3	9:L:4722:HOH:O	2.08	0.52
2:M:776:SER:HA	2:M:780:GLU:HB3	1.92	0.52
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.08	0.52
3:N:964:LEU:HD11	3:N:1058:ARG:HD2	1.91	0.52
3:N:1344:VAL:HG11	3:N:1421:LEU:HD22	1.91	0.52
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.91	0.52
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.10	0.52
5:P:171:LYS:HE3	5:P:175:HIS:CE1	2.45	0.52
1:A:25:LEU:HD23	1:A:25:LEU:C	2.35	0.52
1:A:111:ALA:HB2	1:A:127:LEU:HG	1.91	0.52
2:C:40:GLU:HA	9:C:9794:HOH:O	2.09	0.52
2:C:49:ARG:HD3	9:C:9193:HOH:O	2.10	0.52
2:C:135:VAL:HG13	9:C:9933:HOH:O	2.09	0.52
2:C:585:GLU:H	2:C:585:GLU:CD	2.17	0.52
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.37	0.52
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.09	0.52
3:D:1068:LEU:HD22	3:D:1072:ILE:HG12	1.91	0.52
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.45	0.52
4:E:17:TYR:N	4:E:17:TYR:HD2	2.08	0.52
4:E:87:LYS:HE3	9:E:143:HOH:O	2.08	0.52
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.23	0.52
5:F:316:SER:C	5:F:318:GLU:N	2.62	0.52
1:K:57:TYR:HE2	1:K:59:GLU:HG2	1.74	0.52
1:L:109:VAL:HG23	9:L:2421:HOH:O	2.09	0.52
2:M:139:GLN:NE2	2:M:334:ARG:HH11	2.08	0.52
2:M:544:THR:O	2:M:547:ILE:HG13	2.10	0.52
2:M:841:ASN:HD21	2:M:845:ASN:N	2.06	0.52
2:M:881:ASN:HD22	2:M:881:ASN:H	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:412:GLY:O	3:N:421:LEU:HB3	2.10	0.52
3:N:470:LEU:HB2	3:N:503:LEU:HD11	1.92	0.52
3:N:965:GLU:O	3:N:968:ASP:HB2	2.10	0.52
3:N:1059:SER:HB3	9:N:9228:HOH:O	2.08	0.52
3:N:1112:CYS:HA	9:N:9516:HOH:O	2.10	0.52
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.10	0.52
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.73	0.52
5:P:104:ARG:O	5:P:108:GLU:HG2	2.10	0.52
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.75	0.52
5:P:261:PRO:HA	9:P:507:HOH:O	2.10	0.52
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.31	0.52
1:A:69:PRO:O	1:A:71:VAL:HG23	2.10	0.52
1:B:52:ALA:HB2	1:B:170:VAL:O	2.10	0.52
2:C:97:ARG:HD2	9:C:2261:HOH:O	2.10	0.52
3:D:560:GLN:CD	5:F:218:GLN:HE22	2.18	0.52
3:D:704:ARG:CD	3:D:705:ALA:H	2.23	0.52
3:D:720:LEU:H	3:D:720:LEU:HD12	1.73	0.52
3:D:793:THR:HB	3:D:879:ARG:HD3	1.91	0.52
3:D:827:ILE:O	3:D:837:GLY:HA3	2.10	0.52
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.74	0.52
4:E:61:GLU:O	4:E:65:MET:HG3	2.10	0.52
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.91	0.52
3:N:474:GLU:O	3:N:478:LEU:HG	2.10	0.52
3:N:1285:GLU:H	3:N:1285:GLU:CD	2.18	0.52
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.10	0.52
3:N:1410:GLU:HA	9:N:9270:HOH:O	2.10	0.52
8:N:9002:TGT:H3	9:N:9224:HOH:O	2.10	0.52
5:P:261:PRO:O	5:P:265:VAL:HG23	2.09	0.52
5:P:344:ALA:HB3	9:P:447:HOH:O	2.09	0.52
1:A:101:LEU:HG	1:A:114:PHE:HA	1.91	0.52
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.92	0.52
2:C:601:GLY:O	2:C:648:ARG:HA	2.10	0.52
3:D:493:ARG:O	3:D:493:ARG:HD3	2.09	0.52
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.10	0.52
3:D:633:VAL:C	3:D:635:PRO:HD3	2.35	0.52
3:D:729:HIS:CE1	3:D:731:LEU:H	2.28	0.52
3:D:1441:GLN:HE21	3:D:1442:ASN:HB2	1.73	0.52
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.74	0.52
1:L:46:SER:O	1:L:148:VAL:HB	2.10	0.52
2:M:3:ILE:CD1	2:M:900:ARG:HB2	2.40	0.52
2:M:213:ALA:HB3	9:M:1191:HOH:O	2.11	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.38	0.52
2:M:278:GLU:HB2	9:M:2032:HOH:O	2.10	0.52
2:M:333:ILE:HG12	2:M:467:ILE:HD11	1.92	0.52
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.10	0.52
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.92	0.52
3:N:550:ARG:CD	3:N:573:MET:HB3	2.41	0.52
3:N:1147:ARG:HD2	9:N:9121:HOH:O	2.10	0.52
3:N:1149:LEU:HD22	9:N:9329:HOH:O	2.10	0.52
3:N:1242:HIS:HB2	9:N:9670:HOH:O	2.10	0.52
2:C:73:LEU:HD12	2:C:73:LEU:O	2.10	0.51
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.92	0.51
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.10	0.51
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.92	0.51
3:D:192:ALA:O	3:D:195:VAL:HG23	2.09	0.51
3:D:390:PRO:HD3	9:D:9423:HOH:O	2.10	0.51
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.24	0.51
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.08	0.51
5:F:74:LYS:HD3	9:F:802:HOH:O	2.09	0.51
5:F:347:GLN:O	5:F:351:SER:HB2	2.10	0.51
2:M:22:GLN:CD	2:M:336:VAL:HG21	2.35	0.51
2:M:172:ILE:H	2:M:172:ILE:HD12	1.76	0.51
2:M:535:SER:HB2	2:M:537:LYS:HZ1	1.74	0.51
2:M:816:LYS:HA	9:M:1688:HOH:O	2.10	0.51
2:M:905:ILE:H	2:M:905:ILE:HD12	1.75	0.51
2:M:1099:VAL:HG23	9:M:1567:HOH:O	2.10	0.51
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.45	0.51
3:N:1111:ASP:HB2	3:N:1203:LYS:CD	2.39	0.51
3:N:1304:LYS:HB3	9:N:9576:HOH:O	2.09	0.51
9:N:9476:HOH:O	5:P:87:GLU:HA	2.11	0.51
5:P:123:ASP:HB3	5:P:125:ASP:OD1	2.10	0.51
5:P:132:ARG:HD3	5:P:181:GLU:OE1	2.11	0.51
1:A:41:ARG:HH12	1:A:177:VAL:C	2.19	0.51
1:B:100:LEU:HB2	1:B:115:LEU:CD2	2.40	0.51
2:C:25:SER:OG	2:C:337:GLY:N	2.42	0.51
2:C:172:ILE:HA	2:C:185:LYS:O	2.09	0.51
2:C:285:LEU:HD23	2:C:285:LEU:O	2.10	0.51
2:C:332:ARG:HA	2:C:465:GLY:O	2.10	0.51
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.10	0.51
3:D:20:SER:HB3	9:D:9745:HOH:O	2.10	0.51
3:D:212:ARG:HD3	3:D:445:ARG:HH12	1.74	0.51
3:D:369:ALA:HB2	9:D:2012:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:616:GLN:HB2	9:D:2053:HOH:O	2.11	0.51
3:D:783:ARG:HH21	8:D:9001:TGT:C2	2.23	0.51
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.10	0.51
3:D:1241:PHE:HD2	3:D:1260:ILE:HG21	1.75	0.51
3:D:1491:THR:HG23	9:E:141:HOH:O	2.09	0.51
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.45	0.51
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.92	0.51
2:M:326:ASP:HB2	2:M:431:HIS:CE1	2.46	0.51
2:M:406:HIS:HB3	9:M:1664:HOH:O	2.11	0.51
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.10	0.51
3:N:154:THR:HG23	3:N:157:GLU:H	1.74	0.51
3:N:202:VAL:O	3:N:204:LEU:HG	2.11	0.51
3:N:478:LEU:HD21	3:N:500:ARG:NH2	2.23	0.51
3:N:864:VAL:HG22	3:N:877:PRO:HD3	1.92	0.51
3:N:1311:LEU:HD12	3:N:1313:VAL:O	2.09	0.51
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.25	0.51
4:O:84:ARG:NH1	4:O:84:ARG:HB2	2.26	0.51
1:A:80:LEU:HA	1:A:83:LYS:HD2	1.91	0.51
2:C:670:GLN:O	2:C:672:VAL:HG12	2.10	0.51
2:C:902:ILE:O	2:C:904:PRO:HD3	2.10	0.51
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.91	0.51
3:D:647:ARG:HD2	9:D:9788:HOH:O	2.10	0.51
3:D:816:HIS:HA	9:D:9279:HOH:O	2.10	0.51
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.24	0.51
3:D:1249:ALA:HB3	9:D:9801:HOH:O	2.10	0.51
1:L:133:GLU:HB3	9:L:3618:HOH:O	2.09	0.51
1:L:176:ARG:CZ	3:N:884:ARG:NH1	2.71	0.51
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.11	0.51
2:M:103:LYS:HA	2:M:103:LYS:NZ	2.24	0.51
2:M:614:ARG:HD3	9:M:2050:HOH:O	2.10	0.51
3:N:50:PHE:O	3:N:89:ARG:HD2	2.11	0.51
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.93	0.51
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.93	0.51
3:N:1118:ILE:HG23	3:N:1346:ARG:HH12	1.74	0.51
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.11	0.51
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.92	0.51
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.44	0.51
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.92	0.51
2:C:136:ILE:CD1	2:C:392:SER:HB2	2.41	0.51
2:C:379:GLU:HG3	9:C:9405:HOH:O	2.11	0.51
2:C:380:ALA:HA	2:C:383:ARG:CD	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:459:ALA:HA	9:C:2046:HOH:O	2.09	0.51
2:C:539:VAL:HG21	3:D:1067:VAL:CG1	2.40	0.51
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.10	0.51
2:C:630:ARG:HE	2:C:705:ILE:CG2	2.23	0.51
2:C:670:GLN:HE22	2:C:699:PHE:CB	2.24	0.51
2:C:841:ASN:HD21	2:C:845:ASN:N	2.07	0.51
3:D:833:GLU:HG2	9:D:9511:HOH:O	2.10	0.51
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.10	0.51
5:F:357:ALA:HA	9:F:583:HOH:O	2.10	0.51
5:F:399:GLN:O	5:F:403:LYS:HB2	2.11	0.51
1:L:136:GLY:HA3	9:L:4499:HOH:O	2.10	0.51
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.10	0.51
2:M:201:GLY:HA2	9:M:2103:HOH:O	2.09	0.51
2:M:211:LEU:HG	2:M:308:ARG:HG3	1.91	0.51
2:M:549:PHE:HE1	2:M:909:ALA:HB3	1.75	0.51
2:M:611:ILE:HD13	2:M:625:LEU:HD11	1.92	0.51
2:M:732:ALA:HA	2:M:735:ARG:CZ	2.41	0.51
2:M:1074:GLU:HA	9:M:1982:HOH:O	2.09	0.51
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.35	0.51
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.25	0.51
3:N:657:LEU:HG	3:N:661:MET:HE2	1.91	0.51
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.10	0.51
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.92	0.51
3:N:1495:ILE:HG23	9:N:9235:HOH:O	2.09	0.51
4:O:25:LYS:HG3	9:O:1782:HOH:O	2.10	0.51
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.91	0.51
1:A:184:THR:HB	1:A:194:LYS:CE	2.40	0.51
2:C:91:GLN:CD	2:C:117:HIS:HB3	2.36	0.51
2:C:172:ILE:HD12	2:C:172:ILE:N	2.24	0.51
2:C:183:SER:HB2	2:C:190:LYS:CD	2.41	0.51
2:C:333:ILE:N	2:C:333:ILE:HD12	2.25	0.51
2:C:504:GLU:HG3	9:C:9043:HOH:O	2.10	0.51
2:C:737:LEU:HD22	2:C:741:GLY:O	2.10	0.51
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.93	0.51
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.91	0.51
2:C:1106:ASP:HA	9:C:9127:HOH:O	2.11	0.51
3:D:243:ALA:HB2	9:D:2459:HOH:O	2.10	0.51
3:D:526:PRO:O	3:D:537:THR:HA	2.11	0.51
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.45	0.51
5:F:392:VAL:HG13	9:F:551:HOH:O	2.11	0.51
1:K:206:THR:H	1:K:209:GLU:CD	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.26	0.51
1:L:98:THR:HG22	9:L:3535:HOH:O	2.11	0.51
1:L:206:THR:CG2	1:L:209:GLU:H	2.24	0.51
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.92	0.51
2:M:209:ARG:HB3	9:M:1448:HOH:O	2.10	0.51
2:M:313:LEU:HD13	2:M:321:GLU:CB	2.40	0.51
2:M:537:LYS:HD2	9:M:1233:HOH:O	2.10	0.51
2:M:732:ALA:HA	2:M:735:ARG:NH1	2.26	0.51
3:N:53:ILE:HG23	3:N:54:LYS:N	2.24	0.51
3:N:209:ARG:NH1	3:N:397:LYS:HB2	2.25	0.51
3:N:684:LYS:HE2	3:N:686:GLU:OE1	2.10	0.51
3:N:1197:ARG:HB3	3:N:1396:GLU:CD	2.35	0.51
3:N:1282:ARG:HD3	3:N:1295:GLU:OE2	2.11	0.51
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.75	0.51
2:C:113:VAL:O	2:C:115:LEU:HD23	2.11	0.51
2:C:183:SER:HB2	2:C:190:LYS:HG2	1.92	0.51
2:C:244:PRO:HB3	9:C:9170:HOH:O	2.09	0.51
2:C:373:VAL:HG12	9:C:2035:HOH:O	2.09	0.51
2:C:413:LEU:H	2:C:413:LEU:CD1	2.17	0.51
2:C:874:LEU:CD2	3:D:787:LEU:HD22	2.29	0.51
2:C:913:GLU:HG3	9:C:9202:HOH:O	2.09	0.51
2:C:948:GLU:OE1	2:C:955:PRO:HA	2.11	0.51
3:D:23:TYR:CE1	3:D:89:ARG:HG2	2.45	0.51
3:D:52:PRO:CG	3:D:78:VAL:HG13	2.41	0.51
3:D:486:ARG:HD2	9:D:2277:HOH:O	2.11	0.51
3:D:800:LYS:HD3	3:D:804:LEU:HD22	1.92	0.51
3:D:1173:LEU:HA	9:D:9787:HOH:O	2.11	0.51
5:F:100:VAL:HG21	9:F:458:HOH:O	2.11	0.51
5:F:280:GLN:HB2	9:F:788:HOH:O	2.09	0.51
5:F:363:GLU:HA	5:F:367:MET:HG2	1.92	0.51
1:K:33:GLY:O	1:K:195:LEU:HD22	2.11	0.51
2:M:1043:TYR:C	2:M:1045:ALA:H	2.18	0.51
3:N:7:LYS:HE2	3:N:1458:GLU:OE2	2.10	0.51
3:N:44:LEU:HG	9:N:9296:HOH:O	2.10	0.51
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.93	0.51
3:N:698:LYS:HB2	9:N:9171:HOH:O	2.11	0.51
3:N:853:VAL:HG22	3:N:858:VAL:O	2.10	0.51
3:N:1312:LEU:HD22	9:N:2318:HOH:O	2.10	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.10	0.51
1:B:97:VAL:HG13	9:B:385:HOH:O	2.11	0.51
1:B:132:LEU:HG	9:B:508:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:159:ILE:HB	9:C:9134:HOH:O	2.09	0.51
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.41	0.51
2:C:212:GLY:HA2	9:C:9735:HOH:O	2.10	0.51
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.40	0.51
2:C:691:SER:HA	2:C:858:MET:HE3	1.92	0.51
2:C:1018:GLN:HB2	2:C:1058:ASP:OD2	2.10	0.51
3:D:149:LYS:HE2	9:D:2101:HOH:O	2.11	0.51
3:D:171:LEU:HD21	9:D:2706:HOH:O	2.10	0.51
3:D:435:VAL:HG21	9:D:9430:HOH:O	2.10	0.51
3:D:564:GLU:HG2	9:F:453:HOH:O	2.11	0.51
3:D:633:VAL:O	3:D:635:PRO:HD3	2.09	0.51
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.93	0.51
1:K:1:MET:SD	1:K:5:LYS:HB3	2.50	0.51
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.92	0.51
2:M:625:LEU:HD13	2:M:639:GLN:O	2.11	0.51
2:M:810:ASP:HB3	2:M:813:VAL:CG2	2.41	0.51
2:M:874:LEU:HD12	3:N:784:ASP:OD2	2.11	0.51
2:M:1015:LEU:HD13	3:N:528:VAL:HG11	1.92	0.51
3:N:566:ILE:HD13	5:P:217:ASN:HB3	1.93	0.51
3:N:861:GLN:CD	3:N:861:GLN:N	2.69	0.51
3:N:1020:LEU:HD21	3:N:1038:LEU:HD12	1.92	0.51
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.93	0.51
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.93	0.51
2:C:194:VAL:HG21	2:C:221:LEU:HA	1.93	0.51
2:C:426:ASP:HA	9:C:9778:HOH:O	2.11	0.51
2:C:705:ILE:HA	2:C:827:VAL:O	2.11	0.51
2:C:724:ARG:CD	2:C:740:GLU:HA	2.40	0.51
2:C:743:VAL:CG1	2:C:800:VAL:HG21	2.41	0.51
3:D:28:LYS:O	3:D:43:GLY:HA2	2.10	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.41	0.51
3:D:857:ILE:HG13	9:D:9158:HOH:O	2.11	0.51
3:D:1065:LEU:HD11	3:D:1070:TYR:CA	2.41	0.51
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.26	0.51
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.18	0.51
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.25	0.51
1:K:213:GLN:O	1:K:217:ILE:HG13	2.11	0.51
1:L:183:ASP:HB3	9:L:3332:HOH:O	2.11	0.51
2:M:162:ILE:HD12	2:M:172:ILE:HB	1.92	0.51
2:M:167:LYS:HD3	2:M:168:ARG:N	2.26	0.51
2:M:807:ARG:NH2	2:M:809:GLY:H	2.08	0.51
3:N:153:LEU:HD11	3:N:158:TYR:CA	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.93	0.51
1:B:112:ARG:HB3	1:B:112:ARG:HH11	1.75	0.51
2:C:260:LEU:HD12	2:C:291:ALA:HB1	1.93	0.51
2:C:292:ARG:HG3	9:C:2047:HOH:O	2.09	0.51
2:C:374:ASN:HB2	9:C:9454:HOH:O	2.11	0.51
2:C:615:TYR:HB3	9:C:9476:HOH:O	2.09	0.51
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.41	0.51
2:C:735:ARG:HG2	2:C:735:ARG:HH11	1.76	0.51
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.92	0.51
3:D:135:LEU:HA	3:D:453:ASP:O	2.11	0.51
3:D:658:LEU:HB3	9:D:9268:HOH:O	2.10	0.51
3:D:1254:GLN:HB2	9:D:9660:HOH:O	2.11	0.51
4:E:48:MET:CB	4:E:54:LEU:HB2	2.41	0.51
5:F:407:LYS:HA	9:F:678:HOH:O	2.10	0.51
1:K:18:ARG:O	1:K:207:PRO:HD3	2.11	0.51
1:L:29:GLU:N	9:L:1714:HOH:O	2.43	0.51
2:M:182:VAL:HG22	9:M:1138:HOH:O	2.10	0.51
3:N:603:LEU:O	3:N:606:ILE:HB	2.10	0.51
3:N:971:LEU:HG	3:N:975:GLU:OE1	2.10	0.51
3:N:998:GLU:HG2	9:N:9198:HOH:O	2.11	0.51
3:N:1288:GLU:HB3	9:N:9820:HOH:O	2.10	0.51
5:P:128:ARG:NH1	5:P:128:ARG:HB2	2.25	0.51
1:A:138:LEU:HG	9:A:422:HOH:O	2.11	0.51
2:C:95:TYR:HE2	9:C:9064:HOH:O	1.94	0.51
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.41	0.51
3:D:18:ILE:HD12	3:D:518:PRO:HG3	1.93	0.51
3:D:186:VAL:HG23	3:D:211:VAL:CG1	2.41	0.51
3:D:628:ARG:HH11	3:D:744:GLN:NE2	2.09	0.51
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.11	0.51
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.37	0.51
1:L:84:GLU:CD	3:N:844:ALA:HB1	2.35	0.51
3:N:7:LYS:HD3	3:N:1456:LYS:HZ3	1.76	0.51
3:N:77:GLY:O	3:N:78:VAL:HG23	2.11	0.51
3:N:443:VAL:HG11	3:N:445:ARG:NH2	2.26	0.51
3:N:661:MET:HA	3:N:666:ILE:CD1	2.40	0.51
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.10	0.51
2:C:334:ARG:HD2	2:C:418:LEU:HD21	1.93	0.50
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.93	0.50
3:D:45:PHE:HD1	9:D:2217:HOH:O	1.93	0.50
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.41	0.50
3:D:703:ASN:HD21	3:D:707:THR:HG23	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:748:HIS:HB2	9:D:9229:HOH:O	2.11	0.50
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.45	0.50
5:F:154:LYS:HB2	9:F:473:HOH:O	2.11	0.50
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.76	0.50
2:M:24:GLU:HG2	9:M:1557:HOH:O	2.10	0.50
2:M:78:PHE:CG	2:M:88:LEU:HD21	2.46	0.50
2:M:305:PRO:HA	2:M:308:ARG:HE	1.75	0.50
2:M:916:GLU:HA	9:M:1993:HOH:O	2.11	0.50
3:N:119:SER:HB3	3:N:123:LEU:N	2.23	0.50
3:N:210:ARG:NH1	3:N:398:ALA:HB3	2.24	0.50
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.11	0.50
3:N:564:GLU:HB2	9:N:2251:HOH:O	2.11	0.50
3:N:573:MET:SD	5:P:210:LEU:HD13	2.50	0.50
3:N:829:VAL:HG23	9:N:9623:HOH:O	2.12	0.50
3:N:1151:ARG:HA	3:N:1162:GLU:HG3	1.93	0.50
3:N:1210:SER:HA	9:N:2195:HOH:O	2.11	0.50
3:N:1442:ASN:N	9:N:9134:HOH:O	2.43	0.50
5:P:105:LYS:NZ	5:P:179:GLU:HB3	2.26	0.50
5:P:247:ILE:O	5:P:251:ILE:HG13	2.10	0.50
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.75	0.50
2:C:442:GLU:HG3	9:C:9216:HOH:O	2.11	0.50
2:C:893:ALA:O	2:C:897:LEU:HB2	2.11	0.50
2:C:1067:TYR:CE2	2:C:1071:ILE:HD11	2.46	0.50
3:D:155:ASP:HB3	3:D:159:ARG:HH22	1.76	0.50
3:D:396:VAL:HG13	3:D:446:VAL:O	2.12	0.50
3:D:558:LEU:HB3	9:F:838:HOH:O	2.11	0.50
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.50	0.50
5:F:141:VAL:O	5:F:145:PRO:HD2	2.11	0.50
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.93	0.50
1:K:5:LYS:O	1:K:8:ALA:HB2	2.11	0.50
1:K:36:LEU:O	1:K:40:LEU:HG	2.11	0.50
1:L:82:LEU:O	1:L:85:LEU:HB3	2.11	0.50
2:M:207:LEU:HD13	2:M:221:LEU:CD1	2.42	0.50
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.74	0.50
2:M:1017:THR:HG21	5:P:331:ASP:CG	2.37	0.50
3:N:118:LEU:HB2	9:N:9131:HOH:O	2.11	0.50
3:N:169:TYR:N	3:N:170:PRO:CD	2.74	0.50
3:N:891:GLU:HB2	9:N:9885:HOH:O	2.11	0.50
4:O:94:PRO:HA	9:O:4330:HOH:O	2.10	0.50
5:P:249:ARG:HG3	5:P:253:ASP:OD1	2.10	0.50
5:P:415:THR:HB	9:P:538:HOH:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.46	0.50
2:C:19:THR:HG22	2:C:22:GLN:HB2	1.92	0.50
2:C:199:VAL:HG22	9:C:9445:HOH:O	2.12	0.50
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.76	0.50
2:C:569:VAL:O	2:C:571:LEU:HD12	2.12	0.50
2:C:722:ILE:HD12	2:C:823:VAL:HG21	1.93	0.50
2:C:753:ASP:HA	9:C:9600:HOH:O	2.11	0.50
2:C:1094:ALA:HB1	3:D:603:LEU:HD22	1.92	0.50
3:D:639:LEU:HD13	9:E:107:HOH:O	2.11	0.50
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.93	0.50
1:L:112:ARG:HB2	9:L:6104:HOH:O	2.11	0.50
2:M:241:LEU:HD12	9:M:1745:HOH:O	2.12	0.50
3:N:475:LYS:HE3	9:N:9667:HOH:O	2.11	0.50
3:N:516:ALA:HB3	9:N:9851:HOH:O	2.12	0.50
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.11	0.50
1:B:57:TYR:HB2	9:B:316:HOH:O	2.11	0.50
1:B:188:GLN:HG3	9:D:2381:HOH:O	2.10	0.50
2:C:503:LEU:HD23	2:C:532:MET:HE1	1.93	0.50
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.50
2:C:752:GLY:H	2:C:792:VAL:HB	1.76	0.50
2:C:952:LEU:HD12	2:C:969:GLN:OE1	2.11	0.50
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.92	0.50
9:C:9929:HOH:O	3:D:1068:LEU:HD11	2.11	0.50
3:D:702:LEU:HB3	3:D:745:MET:HE3	1.93	0.50
3:D:1066:THR:OG1	3:D:1067:VAL:N	2.43	0.50
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.12	0.50
9:D:9550:HOH:O	5:F:421:PHE:HB2	2.10	0.50
4:E:43:GLU:CD	4:E:44:GLU:H	2.18	0.50
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.41	0.50
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.94	0.50
2:M:231:PRO:HA	9:M:1364:HOH:O	2.11	0.50
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.26	0.50
2:M:604:ALA:HB3	2:M:612:VAL:O	2.11	0.50
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.94	0.50
2:M:631:SER:HB3	2:M:637:LEU:HD21	1.94	0.50
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.92	0.50
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.77	0.50
3:N:473:LEU:HD21	3:N:495:ARG:NH1	2.27	0.50
3:N:1118:ILE:HG21	3:N:1346:ARG:HH22	1.75	0.50
3:N:1189:ARG:NH1	3:N:1201:CYS:SG	2.84	0.50
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:31:LEU:HG	4:O:35:PHE:HE1	1.76	0.50
1:B:122:ILE:HD11	9:B:455:HOH:O	2.11	0.50
2:C:9:ILE:HD11	9:C:9893:HOH:O	2.10	0.50
2:C:169:GLY:HA3	9:C:9863:HOH:O	2.10	0.50
2:C:195:LEU:HD13	9:C:2092:HOH:O	2.10	0.50
2:C:543:ASN:C	2:C:543:ASN:HD22	2.20	0.50
3:D:22:SER:OG	3:D:91:GLY:HA2	2.12	0.50
3:D:169:TYR:N	3:D:170:PRO:CD	2.75	0.50
3:D:464:LEU:O	3:D:468:LEU:HG	2.11	0.50
3:D:519:VAL:HA	3:D:544:TYR:OH	2.12	0.50
3:D:1476:THR:C	3:D:1478:SER:H	2.20	0.50
5:F:153:PRO:HG2	5:F:154:LYS:H	1.76	0.50
1:K:63:HIS:HD2	1:K:65:PHE:H	1.58	0.50
1:K:99:LEU:CD2	1:K:122:ILE:HD11	2.41	0.50
1:K:156:HIS:HD2	1:K:157:GLY:N	2.10	0.50
1:K:197:LEU:HD23	1:K:197:LEU:H	1.76	0.50
1:L:150:TYR:HE2	1:L:152:PRO:HG3	1.76	0.50
2:M:63:GLY:O	2:M:103:LYS:HE2	2.10	0.50
2:M:253:ALA:HB3	9:M:1190:HOH:O	2.11	0.50
2:M:339:LEU:HD22	2:M:391:LEU:HD13	1.93	0.50
3:N:441:ARG:HB3	9:N:9669:HOH:O	2.11	0.50
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.41	0.50
3:N:586:ARG:HB2	9:N:2411:HOH:O	2.11	0.50
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.46	0.50
4:O:51:LEU:HD12	4:O:52:GLU:H	1.75	0.50
2:C:39:ARG:NE	2:C:39:ARG:HA	2.26	0.50
2:C:53:PRO:HG3	9:C:2143:HOH:O	2.12	0.50
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.11	0.50
2:C:184:MET:HB2	2:C:193:LEU:CD1	2.42	0.50
2:C:437:ARG:HA	9:C:9653:HOH:O	2.12	0.50
2:C:676:ILE:O	3:D:948:THR:HG22	2.11	0.50
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.93	0.50
2:C:1068:GLU:O	2:C:1072:LYS:HG2	2.11	0.50
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.38	0.50
3:D:171:LEU:C	3:D:171:LEU:HD12	2.37	0.50
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.93	0.50
3:D:554:LEU:O	3:D:558:LEU:HG	2.12	0.50
3:D:666:ILE:HD12	3:D:666:ILE:N	2.24	0.50
3:D:1057:VAL:HA	3:D:1069:GLU:CD	2.36	0.50
3:D:1359:GLN:HB3	9:D:9265:HOH:O	2.12	0.50
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.94	0.50
5:F:422:LEU:HD23	5:F:422:LEU:N	2.27	0.50
1:L:71:VAL:HG13	9:L:3336:HOH:O	2.11	0.50
2:M:31:GLN:OE1	2:M:38:LYS:HB2	2.12	0.50
2:M:226:VAL:HG22	2:M:230:ARG:NH2	2.26	0.50
2:M:561:GLY:HA3	2:M:842:ARG:O	2.12	0.50
2:M:592:LEU:HA	9:M:1416:HOH:O	2.11	0.50
2:M:601:GLY:O	2:M:648:ARG:HA	2.12	0.50
2:M:1075:ASP:OD1	4:O:28:GLN:HG3	2.11	0.50
3:N:42:ASP:O	3:N:43:GLY:O	2.29	0.50
3:N:165:LYS:HB2	3:N:395:VAL:HG11	1.93	0.50
3:N:169:TYR:HA	3:N:392:SER:HA	1.94	0.50
3:N:551:ASN:O	3:N:554:LEU:HB3	2.11	0.50
3:N:907:GLU:HG2	3:N:908:LYS:N	2.27	0.50
3:N:1068:LEU:O	3:N:1072:ILE:HG12	2.12	0.50
2:C:54:ILE:HG23	2:C:54:ILE:O	2.12	0.50
2:C:743:VAL:HG11	2:C:800:VAL:HG21	1.93	0.50
2:C:759:THR:HB	2:C:785:VAL:CG2	2.41	0.50
2:C:968:LEU:HD11	9:C:9220:HOH:O	2.12	0.50
2:C:1085:PHE:CE1	2:C:1111:ILE:HG21	2.47	0.50
2:C:1104:GLU:H	2:C:1104:GLU:CD	2.20	0.50
2:C:1105:LYS:C	2:C:1107:ASN:HD22	2.19	0.50
3:D:412:GLY:O	3:D:421:LEU:HB3	2.11	0.50
3:D:432:TYR:HA	3:D:448:GLU:O	2.11	0.50
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.77	0.50
3:D:563:PRO:HB3	9:F:445:HOH:O	2.11	0.50
3:D:587:ARG:HG2	3:D:587:ARG:HH11	1.76	0.50
3:D:675:ARG:HD3	9:D:2630:HOH:O	2.12	0.50
3:D:683:ILE:HG22	9:D:2014:HOH:O	2.12	0.50
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.12	0.50
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.42	0.50
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.45	0.50
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.12	0.50
4:E:31:LEU:HD12	4:E:32:ARG:CD	2.41	0.50
5:F:97:GLU:CD	5:F:97:GLU:H	2.19	0.50
5:F:123:ASP:OD2	5:F:126:LEU:HD22	2.12	0.50
5:F:403:LYS:NZ	5:F:406:ARG:HB2	2.27	0.50
5:F:421:PHE:C	5:F:423:ASP:N	2.69	0.50
1:K:101:LEU:HG	1:K:113:ASP:O	2.12	0.50
1:L:101:LEU:HG	1:L:114:PHE:HA	1.94	0.50
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:184:MET:HB2	2:M:193:LEU:CD1	2.42	0.50
2:M:427:VAL:HG11	9:M:1672:HOH:O	2.10	0.50
2:M:520:GLU:N	9:M:1671:HOH:O	2.41	0.50
2:M:863:ASP:O	2:M:865:THR:N	2.44	0.50
3:N:524:LEU:HD23	9:N:9183:HOH:O	2.12	0.50
3:N:681:ARG:HB3	3:N:681:ARG:NH1	2.26	0.50
3:N:980:MET:HB3	3:N:982:PHE:CD1	2.47	0.50
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.41	0.50
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.11	0.50
5:P:153:PRO:O	5:P:157:GLU:HG2	2.12	0.50
1:A:9:PRO:HB3	1:A:25:LEU:HD21	1.94	0.50
1:A:185:ARG:HB3	9:A:497:HOH:O	2.11	0.50
1:B:140:MET:N	1:B:140:MET:SD	2.85	0.50
2:C:329:GLY:H	2:C:488:ALA:HB3	1.74	0.50
2:C:579:VAL:CG1	2:C:887:GLU:HG3	2.36	0.50
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.50
2:C:720:GLU:HA	2:C:759:THR:O	2.12	0.50
3:D:65:ARG:CG	3:D:66:GLN:H	2.14	0.50
3:D:483:HIS:ND1	3:D:483:HIS:N	2.59	0.50
3:D:561:GLY:HA2	5:F:132:ARG:NH2	2.26	0.50
3:D:571:LYS:NZ	3:D:571:LYS:HB2	2.26	0.50
3:D:685:ASP:HB2	9:D:2219:HOH:O	2.11	0.50
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.92	0.50
3:D:865:THR:HG21	9:D:2307:HOH:O	2.11	0.50
3:D:895:VAL:O	3:D:899:LEU:HG	2.12	0.50
3:D:992:ILE:O	3:D:995:LEU:HB3	2.12	0.50
5:F:102:LEU:HD13	5:F:187:LEU:CA	2.42	0.50
1:L:89:PHE:CE2	1:L:146:ARG:HB3	2.47	0.50
2:M:22:GLN:O	2:M:121:MET:HE1	2.12	0.50
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.50
2:M:140:ILE:H	2:M:140:ILE:HD12	1.77	0.50
2:M:242:LEU:HD12	9:M:1962:HOH:O	2.12	0.50
2:M:381:ALA:HA	9:M:1661:HOH:O	2.11	0.50
2:M:449:ILE:C	2:M:451:LEU:H	2.20	0.50
3:N:546:ARG:HD3	9:P:514:HOH:O	2.12	0.50
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.76	0.50
3:N:1240:THR:HG23	9:N:9436:HOH:O	2.11	0.50
3:N:1242:HIS:CE1	3:N:1266:ARG:HD3	2.47	0.50
3:N:1335:LEU:HD23	3:N:1344:VAL:HA	1.93	0.50
3:N:1380:GLU:HG2	3:N:1418:LYS:HD3	1.93	0.50
5:P:338:LEU:HG	9:P:531:HOH:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:VAL:HG23	9:B:594:HOH:O	2.12	0.50
2:C:380:ALA:HA	2:C:383:ARG:HG2	1.94	0.50
2:C:553:ASP:HA	2:C:881:ASN:HA	1.94	0.50
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.94	0.50
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.12	0.50
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.12	0.50
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.12	0.50
3:D:1176:LYS:HA	3:D:1179:GLU:OE1	2.12	0.50
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.94	0.50
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.93	0.50
5:F:268:ILE:HD11	9:F:522:HOH:O	2.10	0.50
5:F:287:THR:C	5:F:289:GLU:H	2.19	0.50
5:F:409:LYS:HD3	9:F:686:HOH:O	2.11	0.50
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.94	0.50
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.93	0.50
2:M:749:VAL:HG12	2:M:753:ASP:HB2	1.93	0.50
3:N:178:LEU:HD22	9:N:9728:HOH:O	2.12	0.50
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.41	0.50
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.52	0.50
3:N:1080:GLY:HA3	9:N:9498:HOH:O	2.10	0.50
2:C:76:PRO:HG2	9:C:9648:HOH:O	2.11	0.49
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.94	0.49
2:C:397:GLU:HB3	9:C:9154:HOH:O	2.10	0.49
2:C:398:THR:HG22	2:C:568:ALA:O	2.11	0.49
2:C:691:SER:HB2	2:C:858:MET:SD	2.52	0.49
3:D:601:ARG:HG3	3:D:605:ASP:CB	2.42	0.49
3:D:759:ALA:HA	3:D:763:MET:HB3	1.94	0.49
3:D:817:GLU:OE2	3:D:839:LEU:HD22	2.11	0.49
3:D:1026:SER:C	3:D:1028:ALA:H	2.18	0.49
3:D:1355:VAL:HG23	9:D:9685:HOH:O	2.10	0.49
3:D:1412:LYS:HD2	9:D:2744:HOH:O	2.12	0.49
5:F:188:ILE:HA	9:F:658:HOH:O	2.11	0.49
1:L:78:ILE:O	1:L:82:LEU:HG	2.12	0.49
2:M:80:GLN:HG3	9:M:2237:HOH:O	2.11	0.49
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.47	0.49
2:M:253:ALA:HB1	9:M:2202:HOH:O	2.12	0.49
2:M:295:ASP:HB2	9:M:1770:HOH:O	2.11	0.49
2:M:481:ASP:HB2	9:M:1768:HOH:O	2.12	0.49
2:M:607:ASP:HB2	2:M:610:ARG:NH1	2.27	0.49
2:M:948:GLU:HB3	2:M:953:VAL:HG23	1.93	0.49
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:85:VAL:HG11	3:N:89:ARG:NH2	2.27	0.49
3:N:776:GLU:HB3	3:N:912:LYS:HE2	1.94	0.49
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.42	0.49
3:N:973:GLN:HA	3:N:976:GLN:NE2	2.26	0.49
3:N:1090:ASP:HA	3:N:1093:TYR:HB2	1.93	0.49
3:N:1261:GLU:HB3	9:N:2134:HOH:O	2.12	0.49
5:P:269:ASN:HD21	5:P:273:ARG:CZ	2.24	0.49
5:P:372:ARG:HB2	9:P:766:HOH:O	2.12	0.49
1:B:124:ASN:ND2	1:B:127:LEU:HD22	2.27	0.49
1:B:159:LYS:HD3	1:B:159:LYS:N	2.27	0.49
2:C:674:VAL:HG11	2:C:992:MET:HB3	1.94	0.49
2:C:703:ILE:HD11	2:C:830:LYS:HG2	1.93	0.49
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.48	0.49
3:D:112:ILE:C	3:D:112:ILE:HD12	2.37	0.49
3:D:171:LEU:HD13	3:D:389:GLU:O	2.12	0.49
4:E:54:LEU:HD21	9:E:101:HOH:O	2.12	0.49
2:M:264:PRO:HB3	2:M:289:THR:CB	2.42	0.49
2:M:497:ALA:HA	2:M:515:ALA:HA	1.93	0.49
2:M:673:LEU:HD22	2:M:867:VAL:HA	1.94	0.49
3:N:22:SER:HA	3:N:90:MET:O	2.13	0.49
3:N:81:THR:HG22	3:N:82:LYS:H	1.77	0.49
3:N:165:LYS:CB	3:N:395:VAL:HG11	2.43	0.49
3:N:488:ARG:HD3	9:N:9642:HOH:O	2.11	0.49
3:N:500:ARG:HD2	9:N:9803:HOH:O	2.11	0.49
3:N:785:ILE:HD12	3:N:785:ILE:N	2.26	0.49
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.93	0.49
3:N:980:MET:HB3	3:N:982:PHE:CE1	2.48	0.49
3:N:1129:THR:HG23	9:N:2064:HOH:O	2.12	0.49
3:N:1464:GLU:HG2	3:N:1465:ASN:N	2.25	0.49
9:N:9234:HOH:O	5:P:309:LYS:HB3	2.12	0.49
5:P:141:VAL:O	5:P:145:PRO:HD2	2.12	0.49
5:P:287:THR:C	5:P:289:GLU:H	2.20	0.49
1:B:62:LEU:HD12	9:B:386:HOH:O	2.10	0.49
2:C:47:ALA:HB2	2:C:345:ARG:NH1	2.27	0.49
2:C:513:VAL:HB	9:C:2036:HOH:O	2.12	0.49
2:C:555:ALA:HB2	3:D:1070:TYR:HE2	1.78	0.49
2:C:836:GLY:HA2	3:D:725:SER:OG	2.11	0.49
2:C:1043:TYR:C	2:C:1045:ALA:H	2.19	0.49
2:C:1094:ALA:HA	9:D:2368:HOH:O	2.13	0.49
3:D:102:ILE:HG13	9:D:9163:HOH:O	2.13	0.49
3:D:1271:LYS:HZ1	3:D:1334:GLN:HE22	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:297:PRO:HA	9:F:639:HOH:O	2.11	0.49
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.93	0.49
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.76	0.49
1:K:97:VAL:HG23	9:K:1348:HOH:O	2.11	0.49
1:L:127:LEU:HD12	1:L:128:HIS:H	1.76	0.49
2:M:41:ASN:HD22	2:M:41:ASN:H	1.60	0.49
2:M:42:VAL:HG12	2:M:43:GLY:H	1.77	0.49
2:M:302:VAL:C	2:M:305:PRO:HD2	2.37	0.49
2:M:442:GLU:CD	2:M:454:SER:HB2	2.37	0.49
2:M:470:PRO:HG2	2:M:538:GLN:OE1	2.12	0.49
2:M:1085:PHE:CE1	2:M:1111:ILE:HG21	2.47	0.49
3:N:120:ALA:HB1	9:N:2010:HOH:O	2.12	0.49
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.95	0.49
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.26	0.49
3:N:654:LYS:CE	3:N:674:ARG:HH22	2.25	0.49
3:N:850:LEU:O	3:N:853:VAL:HB	2.12	0.49
3:N:972:LEU:HD13	9:N:9514:HOH:O	2.12	0.49
3:N:1394:VAL:HG23	9:N:2210:HOH:O	2.12	0.49
3:N:1478:SER:HG	3:N:1480:PHE:HB3	1.76	0.49
4:O:89:MET:HE3	9:O:1567:HOH:O	2.11	0.49
5:P:414:ARG:HG2	5:P:414:ARG:HH11	1.77	0.49
2:C:110:GLU:HB2	2:C:368:THR:CG2	2.42	0.49
2:C:410:ILE:HD11	2:C:455:LEU:HD22	1.95	0.49
2:C:489:THR:HG23	9:C:9613:HOH:O	2.11	0.49
9:C:9546:HOH:O	3:D:1029:ARG:HB3	2.12	0.49
4:E:17:TYR:N	4:E:17:TYR:CD2	2.78	0.49
5:F:223:ALA:HB2	5:F:242:TRP:HB2	1.94	0.49
5:F:263:HIS:HB3	9:F:740:HOH:O	2.12	0.49
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.93	0.49
5:F:374:GLY:HA2	9:F:564:HOH:O	2.11	0.49
1:K:112:ARG:NH1	1:K:125:PRO:HB2	2.27	0.49
1:L:64:GLU:HG3	1:L:165:ILE:HD12	1.94	0.49
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.48	0.49
2:M:51:THR:HA	9:M:1601:HOH:O	2.12	0.49
2:M:109:LYS:HE3	9:M:1380:HOH:O	2.11	0.49
2:M:339:LEU:HB3	2:M:385:PHE:HZ	1.77	0.49
2:M:408:ARG:HB2	2:M:455:LEU:HD22	1.93	0.49
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.47	0.49
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.47	0.49
2:M:1015:LEU:HD13	3:N:528:VAL:HG21	1.95	0.49
3:N:28:LYS:NZ	3:N:552:ASN:HD22	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:178:LEU:HD23	3:N:181:ASP:OD2	2.12	0.49
3:N:616:GLN:HA	3:N:616:GLN:NE2	2.25	0.49
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.36	0.49
5:P:162:LYS:HG3	9:P:601:HOH:O	2.12	0.49
5:P:347:GLN:HA	5:P:350:LEU:HD22	1.94	0.49
1:A:18:ARG:HH12	1:A:88:ARG:NH1	2.10	0.49
1:A:30:ARG:NE	1:A:191:ASP:HB3	2.26	0.49
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.42	0.49
2:C:146:VAL:HG22	2:C:162:ILE:HG23	1.94	0.49
2:C:724:ARG:CG	2:C:740:GLU:HA	2.42	0.49
2:C:815:LEU:HD12	9:C:9978:HOH:O	2.13	0.49
3:D:567:ILE:HG22	3:D:571:LYS:HZ1	1.77	0.49
3:D:789:LEU:HD22	3:D:882:PHE:HD1	1.77	0.49
3:D:815:ALA:HB3	9:D:2551:HOH:O	2.11	0.49
3:D:924:MET:HB3	4:E:7:ASP:OD1	2.13	0.49
3:D:1119:SER:HA	3:D:1186:VAL:O	2.12	0.49
3:D:1140:ILE:O	3:D:1144:LEU:HD12	2.12	0.49
3:D:1256:LEU:HA	3:D:1259:VAL:HG23	1.94	0.49
4:E:29:GLN:HB2	4:E:33:HIS:NE2	2.27	0.49
4:E:33:HIS:HD2	9:E:151:HOH:O	1.96	0.49
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.94	0.49
2:M:418:LEU:N	2:M:418:LEU:HD12	2.27	0.49
2:M:610:ARG:HD2	2:M:612:VAL:HG23	1.95	0.49
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.48	0.49
2:M:1000:MET:HE3	2:M:1002:GLU:HG2	1.94	0.49
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.46	0.49
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.94	0.49
3:N:757:ALA:HA	9:O:6768:HOH:O	2.11	0.49
3:N:829:VAL:H	3:N:835:SER:HB2	1.77	0.49
3:N:1009:LYS:HA	3:N:1012:GLU:OE2	2.13	0.49
3:N:1264:GLU:HG2	3:N:1266:ARG:CZ	2.41	0.49
4:O:37:ASN:HA	4:O:93:TYR:CE2	2.47	0.49
2:C:5:ARG:HG2	2:C:5:ARG:HH11	1.76	0.49
2:C:510:ALA:HB3	2:C:513:VAL:HG23	1.93	0.49
2:C:585:GLU:O	2:C:588:VAL:HG22	2.13	0.49
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.27	0.49
3:D:32:ILE:O	5:F:258:ILE:HD12	2.13	0.49
3:D:160:GLU:HG3	9:D:2065:HOH:O	2.12	0.49
3:D:493:ARG:NH2	3:D:1389:LEU:N	2.60	0.49
3:D:805:GLU:OE1	3:D:805:GLU:O	2.31	0.49
5:F:124:PRO:HB2	9:F:642:HOH:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:81:ASN:HB2	9:L:3134:HOH:O	2.11	0.49
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.27	0.49
2:M:15:LEU:HD22	2:M:18:LEU:HD11	1.95	0.49
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.47	0.49
2:M:512:ARG:HD3	9:M:1205:HOH:O	2.12	0.49
2:M:542:VAL:HB	9:M:1641:HOH:O	2.12	0.49
2:M:783:ARG:HG2	2:M:785:VAL:HG12	1.94	0.49
2:M:817:PRO:C	2:M:819:VAL:H	2.21	0.49
2:M:1012:PRO:HG2	9:M:2087:HOH:O	2.12	0.49
3:N:107:ASP:HB3	9:N:9434:HOH:O	2.11	0.49
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.95	0.49
3:N:430:ASP:HB2	9:N:2649:HOH:O	2.12	0.49
3:N:920:LEU:HD21	9:N:2253:HOH:O	2.13	0.49
3:N:1133:ARG:HB2	9:N:9840:HOH:O	2.11	0.49
5:P:368:VAL:HG13	9:P:766:HOH:O	2.13	0.49
1:A:126:ASP:N	9:A:325:HOH:O	2.44	0.49
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.95	0.49
2:C:575:GLN:OE1	2:C:670:GLN:HB3	2.13	0.49
2:C:771:GLU:HG2	9:F:623:HOH:O	2.11	0.49
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.45	0.49
3:D:588:GLY:HA2	9:D:9743:HOH:O	2.11	0.49
3:D:804:LEU:HB3	9:D:9135:HOH:O	2.12	0.49
3:D:868:TYR:HB3	3:D:873:LEU:HD11	1.93	0.49
4:E:50:THR:HG23	9:E:215:HOH:O	2.11	0.49
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.42	0.49
1:L:116:PRO:HB3	9:L:1408:HOH:O	2.12	0.49
2:M:818:GLY:HA3	9:M:1356:HOH:O	2.12	0.49
3:N:1253:THR:OG1	3:N:1258:ARG:HD2	2.12	0.49
5:P:167:PRO:HD3	9:P:592:HOH:O	2.12	0.49
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.49
1:A:97:VAL:HG23	9:A:555:HOH:O	2.13	0.49
1:B:183:ASP:HB2	9:B:424:HOH:O	2.13	0.49
2:C:98:LEU:HD12	2:C:98:LEU:N	2.27	0.49
2:C:186:VAL:HG23	2:C:187:ASN:N	2.22	0.49
2:C:249:LYS:HA	9:C:9082:HOH:O	2.12	0.49
2:C:480:THR:HG22	2:C:481:ASP:N	2.27	0.49
2:C:654:LEU:HD11	2:C:663:ASN:ND2	2.27	0.49
2:C:818:GLY:HA2	9:C:9069:HOH:O	2.13	0.49
2:C:1030:GLN:HB2	3:D:626:SER:HB2	1.93	0.49
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.27	0.49
3:D:531:ASP:HB2	9:D:2442:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:830:ALA:HA	9:D:9695:HOH:O	2.11	0.49
3:D:1002:LYS:HG3	9:D:2445:HOH:O	2.13	0.49
3:D:1185:GLU:HG3	9:D:2020:HOH:O	2.12	0.49
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.28	0.49
5:F:274:THR:O	5:F:278:LEU:HG	2.13	0.49
1:K:59:GLU:HG3	1:K:139:ASN:O	2.12	0.49
1:L:111:ALA:HB3	1:L:124:ASN:O	2.13	0.49
2:M:114:PHE:CE2	5:P:283:GLY:HA3	2.43	0.49
2:M:975:TYR:HA	2:M:982:PRO:HA	1.94	0.49
3:N:119:SER:H	3:N:123:LEU:CB	2.23	0.49
3:N:610:LYS:C	3:N:611:GLN:HG2	2.38	0.49
3:N:787:LEU:HD12	3:N:787:LEU:O	2.13	0.49
3:N:835:SER:HB2	9:N:9623:HOH:O	2.13	0.49
9:N:9944:HOH:O	5:P:140:ARG:HD2	2.12	0.49
4:O:87:LYS:O	4:O:91:ARG:HG3	2.13	0.49
5:P:207:LEU:HA	9:P:647:HOH:O	2.13	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.42	0.49
1:B:44:LEU:HD13	1:B:177:VAL:HG12	1.94	0.49
1:B:101:LEU:HA	9:B:368:HOH:O	2.11	0.49
2:C:28:ARG:HD2	9:C:9482:HOH:O	2.11	0.49
2:C:80:GLN:HB3	2:C:84:ARG:HH21	1.77	0.49
2:C:173:ASP:HB3	9:C:9134:HOH:O	2.12	0.49
2:C:275:TYR:OH	2:C:487:THR:HG21	2.13	0.49
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.94	0.49
2:C:1107:ASN:HD22	2:C:1107:ASN:N	2.11	0.49
3:D:493:ARG:HH22	3:D:1389:LEU:CG	2.24	0.49
3:D:581:LEU:HD12	3:D:603:LEU:HD12	1.94	0.49
3:D:750:PRO:HB2	3:D:756:GLN:OE1	2.12	0.49
3:D:1141:GLU:HA	9:D:2295:HOH:O	2.13	0.49
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.41	0.49
2:M:73:LEU:HD12	2:M:73:LEU:O	2.13	0.49
2:M:591:SER:HB2	9:M:1565:HOH:O	2.12	0.49
2:M:730:SER:O	2:M:734:LEU:HD13	2.12	0.49
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.95	0.49
3:N:661:MET:HA	3:N:666:ILE:HD11	1.94	0.49
3:N:951:ILE:HD12	3:N:1062:ARG:HE	1.77	0.49
3:N:1014:ASN:HA	9:N:2305:HOH:O	2.13	0.49
3:N:1054:GLU:HB2	9:N:9249:HOH:O	2.12	0.49
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.13	0.49
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.78	0.49
2:C:15:LEU:HD12	2:C:586:ARG:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:19:THR:O	2:C:19:THR:HG22	2.13	0.49
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.43	0.49
2:C:630:ARG:HH22	2:C:707:ARG:N	2.11	0.49
2:C:837:ASP:O	2:C:848:VAL:HG13	2.13	0.49
2:C:949:LYS:HA	3:D:798:GLU:OE1	2.13	0.49
3:D:172:PRO:HG2	9:D:9683:HOH:O	2.13	0.49
3:D:437:VAL:HG21	9:D:9719:HOH:O	2.12	0.49
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.95	0.49
3:D:676:MET:HE1	3:D:684:LYS:H	1.77	0.49
3:D:789:LEU:HD22	3:D:882:PHE:CD1	2.48	0.49
3:D:988:ARG:HD2	3:D:989:TYR:N	2.28	0.49
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.94	0.49
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.43	0.49
5:F:81:VAL:HG12	5:F:85:LEU:CD1	2.43	0.49
1:L:112:ARG:HG3	9:L:6377:HOH:O	2.12	0.49
2:M:9:ILE:O	2:M:9:ILE:HG13	2.13	0.49
2:M:93:PRO:HG3	2:M:117:HIS:CE1	2.43	0.49
2:M:140:ILE:O	2:M:418:LEU:HD23	2.13	0.49
2:M:1015:LEU:N	5:P:333:ILE:O	2.46	0.49
3:N:32:ILE:HG12	3:N:38:LYS:O	2.13	0.49
3:N:182:GLY:HA2	9:N:9150:HOH:O	2.13	0.49
3:N:514:LEU:HD23	9:N:9120:HOH:O	2.13	0.49
3:N:523:ASP:O	3:N:526:PRO:HG3	2.13	0.49
3:N:658:LEU:HA	3:N:661:MET:HE3	1.95	0.49
3:N:888:GLU:HA	3:N:891:GLU:OE1	2.13	0.49
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.94	0.49
3:N:1137:ARG:O	3:N:1140:ILE:N	2.45	0.49
4:O:46:PRO:HD2	9:O:1272:HOH:O	2.11	0.49
5:P:102:LEU:HD22	5:P:183:ALA:O	2.12	0.49
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.28	0.48
2:C:47:ALA:HA	2:C:50:GLU:OE2	2.13	0.48
2:C:143:SER:HB3	2:C:330:ASN:O	2.13	0.48
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.47	0.48
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.95	0.48
2:C:474:VAL:HG13	2:C:530:GLU:C	2.38	0.48
2:C:510:ALA:HB3	2:C:513:VAL:CG2	2.43	0.48
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.39	0.48
2:C:1118:LYS:HD2	3:D:22:SER:O	2.12	0.48
3:D:178:LEU:HG	3:D:200:ASP:H	1.77	0.48
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.94	0.48
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.48	0.48
3:D:800:LYS:HE2	9:D:9324:HOH:O	2.13	0.48
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.94	0.48
5:F:404:ALA:O	5:F:408:LEU:HB2	2.12	0.48
1:K:67:THR:OG1	2:M:608:GLY:HA3	2.13	0.48
1:K:91:ASN:HB2	9:K:4664:HOH:O	2.12	0.48
1:L:133:GLU:HA	9:L:1907:HOH:O	2.13	0.48
1:L:159:LYS:HD2	9:L:6173:HOH:O	2.12	0.48
3:N:18:ILE:HA	3:N:21:TRP:CZ3	2.48	0.48
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.42	0.48
3:N:389:GLU:HG3	9:N:9445:HOH:O	2.12	0.48
3:N:396:VAL:HA	3:N:448:GLU:OE2	2.13	0.48
3:N:553:ARG:NH1	5:P:211:ASP:HA	2.27	0.48
3:N:829:VAL:HA	9:N:9268:HOH:O	2.13	0.48
3:N:952:ASP:HA	3:N:1062:ARG:NH2	2.27	0.48
3:N:992:ILE:O	3:N:995:LEU:HB3	2.12	0.48
3:N:1005:GLN:O	3:N:1009:LYS:HB2	2.12	0.48
3:N:1065:LEU:HD11	3:N:1069:GLU:HB2	1.95	0.48
1:B:99:LEU:HD11	9:B:455:HOH:O	2.12	0.48
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.95	0.48
2:C:281:LEU:HB2	2:C:309:TYR:CG	2.48	0.48
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.43	0.48
3:D:22:SER:HA	3:D:90:MET:O	2.13	0.48
3:D:170:PRO:HG2	9:D:9947:HOH:O	2.14	0.48
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.79	0.48
3:D:615:ARG:NH2	3:D:1440:PHE:HA	2.28	0.48
3:D:1045:MET:O	3:D:1053:PHE:HD1	1.95	0.48
3:D:1052:THR:HG22	9:D:2045:HOH:O	2.14	0.48
5:F:138:SER:O	5:F:141:VAL:HG12	2.13	0.48
1:K:72:LYS:NZ	2:M:644:VAL:HG12	2.29	0.48
2:M:198:ARG:HB3	9:M:1364:HOH:O	2.12	0.48
2:M:460:ARG:NH1	2:M:460:ARG:HB3	2.28	0.48
2:M:525:SER:OG	2:M:527:GLU:HG3	2.13	0.48
2:M:927:GLY:HA2	2:M:930:LYS:CE	2.42	0.48
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.95	0.48
3:N:519:VAL:HG13	3:N:544:TYR:CZ	2.48	0.48
3:N:566:ILE:HG13	5:P:192:LEU:HD11	1.96	0.48
3:N:1198:TYR:HA	9:N:9899:HOH:O	2.12	0.48
5:P:401:GLU:HG3	5:P:402:ASN:N	2.28	0.48
1:A:95:GLN:HA	9:A:316:HOH:O	2.13	0.48
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:132:LEU:HD21	1:B:136:GLY:O	2.13	0.48
2:C:338:GLU:HA	2:C:341:THR:CG2	2.42	0.48
3:D:797:LYS:NZ	3:D:1016:PRO:HB3	2.28	0.48
3:D:1050:GLY:HA2	9:D:9419:HOH:O	2.13	0.48
3:D:1124:GLN:NE2	3:D:1135:ARG:HA	2.29	0.48
3:D:1212:ALA:HA	9:D:2287:HOH:O	2.13	0.48
3:D:1465:ASN:ND2	3:D:1470:ARG:HH11	2.11	0.48
3:D:1474:ALA:C	9:D:2639:HOH:O	2.55	0.48
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.48
1:K:229:GLN:HB3	9:L:1928:HOH:O	2.13	0.48
2:M:20:GLU:HG3	9:M:2282:HOH:O	2.14	0.48
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.95	0.48
2:M:139:GLN:HE21	2:M:334:ARG:HD3	1.77	0.48
2:M:690:ILE:HG13	2:M:694:LEU:HD12	1.95	0.48
3:N:135:LEU:HD22	9:N:9205:HOH:O	2.13	0.48
3:N:177:ALA:HB3	9:N:9617:HOH:O	2.13	0.48
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.96	0.48
3:N:243:ALA:HB3	9:N:2636:HOH:O	2.12	0.48
3:N:666:ILE:HA	3:N:684:LYS:NZ	2.29	0.48
5:P:157:GLU:HB2	9:P:425:HOH:O	2.12	0.48
5:P:349:LEU:HB2	9:P:452:HOH:O	2.13	0.48
1:A:2:LEU:O	1:A:6:LEU:HB3	2.13	0.48
2:C:44:ILE:HD13	2:C:344:PHE:CD1	2.49	0.48
2:C:79:PRO:HG2	2:C:82:GLU:HB2	1.95	0.48
2:C:395:LYS:HG2	2:C:397:GLU:HG2	1.96	0.48
2:C:503:LEU:HD13	2:C:507:ARG:O	2.13	0.48
2:C:630:ARG:HE	2:C:705:ILE:CB	2.25	0.48
3:D:167:GLU:HB2	9:D:2586:HOH:O	2.12	0.48
3:D:566:ILE:HG12	5:F:192:LEU:HD11	1.95	0.48
3:D:601:ARG:HG3	3:D:605:ASP:HB2	1.95	0.48
3:D:608:SER:HB2	3:D:1443:THR:OG1	2.13	0.48
3:D:1128:VAL:O	3:D:1129:THR:C	2.56	0.48
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	1.95	0.48
3:D:1401:GLU:OE1	3:D:1405:GLU:HB2	2.14	0.48
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.44	0.48
3:D:1405:GLU:CD	3:D:1413:THR:HB	2.38	0.48
5:F:125:ASP:O	5:F:129:GLU:HG2	2.13	0.48
1:L:115:LEU:HD12	1:L:115:LEU:O	2.14	0.48
2:M:209:ARG:O	2:M:213:ALA:HB2	2.14	0.48
2:M:328:LEU:HD11	2:M:434:HIS:HD2	1.78	0.48
2:M:412:ALA:HB1	2:M:419:THR:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:420:ARG:HG3	2:M:422:ARG:HG2	1.95	0.48
3:N:563:PRO:HG3	5:P:188:ILE:HG21	1.96	0.48
3:N:685:ASP:HB3	9:N:9486:HOH:O	2.12	0.48
4:O:66:LYS:NZ	4:O:66:LYS:HB2	2.28	0.48
5:P:201:LYS:HB2	9:P:509:HOH:O	2.13	0.48
5:P:304:VAL:HG23	9:P:543:HOH:O	2.13	0.48
2:C:437:ARG:HG3	2:C:469:THR:HB	1.95	0.48
2:C:497:ALA:HA	2:C:515:ALA:HA	1.96	0.48
2:C:573:ARG:HG3	2:C:698:ASP:O	2.13	0.48
2:C:625:LEU:O	2:C:627:ARG:N	2.47	0.48
2:C:736:ASP:OD1	2:C:747:ALA:HB1	2.13	0.48
2:C:773:LEU:HD21	9:F:722:HOH:O	2.13	0.48
2:C:780:GLU:HG3	2:C:781:LYS:H	1.79	0.48
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.43	0.48
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.48	0.48
3:D:949:ILE:CD1	3:D:1023:MET:HE1	2.44	0.48
3:D:1338:ALA:HB2	9:D:2268:HOH:O	2.14	0.48
4:E:33:HIS:CG	4:E:89:MET:HG2	2.49	0.48
4:E:54:LEU:HG	4:E:58:PRO:CG	2.42	0.48
5:F:194:LEU:HB2	9:F:669:HOH:O	2.13	0.48
1:K:11:PHE:HE1	1:L:225:PHE:HD2	1.61	0.48
1:K:11:PHE:CE1	1:L:225:PHE:HD2	2.32	0.48
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.96	0.48
1:L:52:ALA:HB2	1:L:170:VAL:O	2.14	0.48
1:L:184:THR:HB	1:L:194:LYS:NZ	2.27	0.48
1:L:213:GLN:O	1:L:217:ILE:HG13	2.13	0.48
2:M:403:SER:O	2:M:407:LYS:HG3	2.13	0.48
2:M:704:HIS:CD2	2:M:831:ARG:HH21	2.32	0.48
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.41	0.48
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.14	0.48
2:M:1115:LEU:HB3	3:N:85:VAL:CG1	2.42	0.48
9:M:1411:HOH:O	5:P:351:SER:HA	2.12	0.48
3:N:202:VAL:HA	9:N:9842:HOH:O	2.12	0.48
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.39	0.48
3:N:396:VAL:HG13	3:N:446:VAL:O	2.13	0.48
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.41	0.48
3:N:411:THR:HG23	3:N:429:SER:OG	2.13	0.48
3:N:986:ARG:HD3	9:N:9116:HOH:O	2.14	0.48
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.78	0.48
5:P:171:LYS:HE3	5:P:175:HIS:NE2	2.28	0.48
5:P:321:ILE:HG21	5:P:332:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:LYS:HG3	1:A:139:ASN:CB	2.43	0.48
1:B:123:MET:HA	9:B:326:HOH:O	2.13	0.48
2:C:8:ARG:HH11	2:C:10:ARG:NH2	2.10	0.48
2:C:12:VAL:HB	9:C:2276:HOH:O	2.12	0.48
2:C:64:LEU:HB2	2:C:359:MET:HE3	1.94	0.48
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.48	0.48
2:C:569:VAL:HG23	2:C:635:THR:CG2	2.43	0.48
2:C:791:ARG:HB3	2:C:791:ARG:HH11	1.79	0.48
2:C:838:LYS:HE2	2:C:997:LEU:HB2	1.96	0.48
2:C:937:ASP:HB2	2:C:940:GLU:HB2	1.95	0.48
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.76	0.48
3:D:441:ARG:O	3:D:443:VAL:HG23	2.14	0.48
3:D:818:ARG:HA	9:D:2451:HOH:O	2.13	0.48
3:D:1072:ILE:O	3:D:1075:HIS:HD2	1.96	0.48
3:D:1306:PRO:HB3	9:D:9535:HOH:O	2.12	0.48
3:D:1390:LEU:HB2	9:D:9725:HOH:O	2.13	0.48
2:M:333:ILE:O	2:M:465:GLY:HA3	2.13	0.48
2:M:411:SER:HB2	2:M:452:ILE:HG23	1.95	0.48
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.95	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.14	0.48
3:N:104:PHE:HE2	3:N:1448:THR:HA	1.78	0.48
3:N:416:ALA:H	3:N:417:PRO:CD	2.27	0.48
3:N:1034:GLN:O	3:N:1037:GLN:HG3	2.13	0.48
3:N:1128:VAL:HG13	9:N:2064:HOH:O	2.13	0.48
3:N:1267:ARG:HH12	3:N:1331:ASP:HB2	1.78	0.48
3:N:1423:GLY:HA3	9:N:9510:HOH:O	2.13	0.48
5:P:370:LYS:HB3	5:P:370:LYS:HZ3	1.78	0.48
5:P:398:ARG:HD2	9:P:837:HOH:O	2.13	0.48
1:B:73:GLU:HB2	1:B:78:ILE:HD11	1.95	0.48
2:C:671:ASN:ND2	2:C:671:ASN:H	2.10	0.48
3:D:117:ASP:HA	9:D:9152:HOH:O	2.13	0.48
3:D:156:GLU:CD	3:D:156:GLU:N	2.70	0.48
3:D:251:PHE:HA	9:D:9540:HOH:O	2.14	0.48
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.96	0.48
3:D:792:ILE:O	3:D:878:GLY:HA3	2.13	0.48
3:D:868:TYR:H	3:D:873:LEU:HD11	1.78	0.48
3:D:1431:THR:HB	9:D:9583:HOH:O	2.13	0.48
5:F:116:LEU:HB3	5:F:127:ILE:HD13	1.96	0.48
1:K:42:ARG:HH12	2:M:857:ASP:CB	2.15	0.48
2:M:145:GLY:O	2:M:163:ILE:HG23	2.13	0.48
2:M:302:VAL:O	2:M:306:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:462:ASP:HA	9:M:1149:HOH:O	2.13	0.48
2:M:480:THR:HG22	2:M:481:ASP:N	2.29	0.48
2:M:676:ILE:O	2:M:676:ILE:HG23	2.12	0.48
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.49	0.48
2:M:807:ARG:HE	2:M:809:GLY:H	1.61	0.48
2:M:933:GLY:HA2	9:M:1676:HOH:O	2.13	0.48
2:M:1109:VAL:HG22	9:N:2350:HOH:O	2.14	0.48
3:N:28:LYS:HB3	3:N:30:GLU:HG2	1.95	0.48
3:N:172:PRO:HB2	9:N:9445:HOH:O	2.14	0.48
3:N:187:LYS:HD2	9:N:2028:HOH:O	2.13	0.48
3:N:603:LEU:O	3:N:607:LEU:HD12	2.14	0.48
3:N:672:ALA:HB2	5:P:420:ASP:OD1	2.13	0.48
3:N:1326:THR:HG23	9:N:9288:HOH:O	2.13	0.48
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.13	0.48
5:P:417:LYS:HD2	9:P:544:HOH:O	2.14	0.48
1:A:18:ARG:NH1	1:A:88:ARG:CZ	2.76	0.48
1:B:45:LEU:HA	9:B:499:HOH:O	2.13	0.48
1:B:211:LEU:O	1:B:214:ALA:HB3	2.13	0.48
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.40	0.48
2:C:551:GLU:HB2	3:D:1064:GLY:HA2	1.95	0.48
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.91	0.48
3:D:400:VAL:HA	3:D:442:ASN:O	2.14	0.48
3:D:709:HIS:ND1	3:D:709:HIS:N	2.57	0.48
3:D:1412:LYS:HB2	9:D:2423:HOH:O	2.14	0.48
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.95	0.48
4:E:70:THR:HG23	9:E:176:HOH:O	2.14	0.48
2:M:526:PRO:HG2	9:M:1590:HOH:O	2.13	0.48
2:M:618:GLY:HA3	9:M:1262:HOH:O	2.12	0.48
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.54	0.48
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.48
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.95	0.48
3:N:782:SER:O	3:N:786:ILE:HG13	2.13	0.48
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.87	0.48
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.44	0.48
3:N:1223:ILE:HD12	9:N:9657:HOH:O	2.14	0.48
3:N:1380:GLU:CG	3:N:1418:LYS:HD3	2.43	0.48
9:N:9211:HOH:O	4:O:50:THR:HG23	2.14	0.48
4:O:89:MET:HE3	4:O:89:MET:HA	1.95	0.48
5:P:136:LEU:HB3	5:P:185:GLN:NE2	2.28	0.48
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.94	0.48
5:P:366:ALA:HB3	5:P:367:MET:CE	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:PRO:HG3	1:A:133:GLU:O	2.14	0.48
1:B:80:LEU:HD23	3:D:867:ARG:NH1	2.28	0.48
1:B:84:GLU:CG	1:B:127:LEU:HD21	2.44	0.48
1:B:105:GLY:O	1:B:132:LEU:HD23	2.14	0.48
2:C:266:ARG:HA	2:C:288:ARG:HD2	1.96	0.48
2:C:338:GLU:HB3	9:C:9652:HOH:O	2.13	0.48
2:C:360:LEU:HD23	9:C:9102:HOH:O	2.13	0.48
2:C:425:PHE:HE2	3:D:1079:LYS:HA	1.77	0.48
2:C:433:THR:C	2:C:435:TYR:H	2.22	0.48
2:C:963:LEU:HG	9:C:9244:HOH:O	2.13	0.48
3:D:76:CYS:HB2	9:D:2211:HOH:O	2.12	0.48
3:D:104:PHE:HB3	3:D:512:MET:SD	2.54	0.48
3:D:169:TYR:HA	3:D:392:SER:HA	1.96	0.48
3:D:422:ALA:H	3:D:427:VAL:CG1	2.26	0.48
3:D:523:ASP:O	3:D:526:PRO:HG3	2.13	0.48
3:D:592:THR:HG21	9:F:764:HOH:O	2.13	0.48
3:D:764:LEU:HB3	9:D:9495:HOH:O	2.14	0.48
3:D:1000:THR:HG23	3:D:1001:GLU:N	2.28	0.48
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.29	0.48
3:D:1354:LYS:HG2	9:D:9191:HOH:O	2.14	0.48
5:F:363:GLU:CA	5:F:367:MET:HG2	2.44	0.48
1:K:185:ARG:HG3	1:K:185:ARG:O	2.13	0.48
2:M:214:TYR:N	9:M:1191:HOH:O	2.41	0.48
2:M:798:GLY:H	2:M:827:VAL:CG1	2.27	0.48
2:M:937:ASP:HB2	2:M:940:GLU:CG	2.40	0.48
3:N:543:LEU:HA	3:N:546:ARG:HG3	1.96	0.48
3:N:658:LEU:HD23	3:N:661:MET:HE3	1.96	0.48
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.14	0.48
3:N:1224:VAL:HG11	9:N:9352:HOH:O	2.13	0.48
5:P:85:LEU:HD11	9:P:455:HOH:O	2.12	0.48
5:P:171:LYS:HG3	5:P:175:HIS:NE2	2.29	0.48
5:P:404:ALA:O	5:P:408:LEU:HB2	2.14	0.48
1:B:48:ILE:HG23	9:B:607:HOH:O	2.14	0.48
2:C:286:SER:O	2:C:299:LYS:HE3	2.13	0.48
2:C:289:THR:HG22	2:C:290:LEU:H	1.79	0.48
2:C:496:ILE:H	2:C:496:ILE:HD12	1.79	0.48
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	2.29	0.48
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.96	0.48
2:C:704:HIS:O	2:C:828:ALA:HA	2.14	0.48
2:C:816:LYS:O	2:C:819:VAL:HB	2.14	0.48
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:131:LYS:HA	3:D:456:MET:HG3	1.94	0.48
3:D:165:LYS:HB2	3:D:395:VAL:HG11	1.96	0.48
3:D:639:LEU:HD12	3:D:639:LEU:N	2.28	0.48
3:D:699:VAL:HB	3:D:716:PHE:O	2.14	0.48
3:D:973:GLN:HB3	9:D:9805:HOH:O	2.14	0.48
3:D:1366:LYS:O	3:D:1370:ILE:HG12	2.14	0.48
5:F:217:ASN:O	5:F:221:ILE:HG13	2.14	0.48
5:F:249:ARG:HE	5:F:262:VAL:HG21	1.79	0.48
5:F:273:ARG:HB3	9:F:463:HOH:O	2.13	0.48
5:F:319:THR:HG22	5:F:320:PRO:HD2	1.96	0.48
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.28	0.48
2:M:767:PRO:HB2	9:M:1853:HOH:O	2.11	0.48
3:N:119:SER:CB	3:N:123:LEU:H	2.21	0.48
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.49	0.48
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.95	0.48
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.43	0.48
3:N:1422:MET:HE3	3:N:1426:LYS:HG2	1.96	0.48
5:P:240:THR:O	5:P:244:ARG:HG2	2.14	0.48
5:P:371:LEU:HB3	5:P:375:LEU:CD2	2.44	0.48
1:B:186:LEU:HB3	1:B:192:LEU:HD13	1.96	0.47
2:C:593:ALA:HB3	9:C:9552:HOH:O	2.13	0.47
2:C:595:LEU:O	2:C:655:LEU:HG	2.14	0.47
2:C:748:GLU:HG3	9:C:9240:HOH:O	2.14	0.47
2:C:932:GLU:HG2	9:C:9998:HOH:O	2.14	0.47
2:C:1092:LEU:HD21	3:D:1447:LEU:HD21	1.95	0.47
2:C:1094:ALA:O	3:D:603:LEU:HD13	2.12	0.47
3:D:6:ARG:HB3	3:D:6:ARG:CZ	2.44	0.47
3:D:55:ASP:O	3:D:82:LYS:HA	2.14	0.47
3:D:800:LYS:HG2	9:D:9812:HOH:O	2.13	0.47
3:D:1290:LEU:HB3	9:D:9881:HOH:O	2.13	0.47
3:D:1393:GLN:HB2	3:D:1398:TRP:CE2	2.49	0.47
3:D:1490:LYS:HG3	9:D:9515:HOH:O	2.14	0.47
1:L:89:PHE:HD2	1:L:146:ARG:NH2	2.12	0.47
2:M:84:ARG:HG3	2:M:131:GLY:O	2.14	0.47
2:M:105:THR:HG22	9:M:1254:HOH:O	2.14	0.47
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.46	0.47
2:M:939:ARG:HD3	2:M:982:PRO:CD	2.40	0.47
3:N:177:ALA:HB2	9:N:9396:HOH:O	2.13	0.47
3:N:404:GLU:OE1	3:N:414:ARG:HD2	2.14	0.47
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.44	0.47
3:N:731:LEU:HB2	9:N:9694:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.95	0.47
3:N:1087:ARG:HD2	3:N:1234:THR:HA	1.95	0.47
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.95	0.47
3:N:1196:THR:HG23	9:N:2567:HOH:O	2.13	0.47
5:P:170:HIS:HD2	9:P:824:HOH:O	1.97	0.47
5:P:218:GLN:O	5:P:222:ARG:HG3	2.14	0.47
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.49	0.47
1:A:30:ARG:HH12	2:C:938:LYS:HZ2	1.62	0.47
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.79	0.47
1:A:121:GLU:HG2	1:A:123:MET:SD	2.54	0.47
2:C:284:ARG:HG2	2:C:285:LEU:N	2.29	0.47
2:C:308:ARG:HG2	9:C:9130:HOH:O	2.14	0.47
2:C:714:ASP:HB3	9:C:9069:HOH:O	2.14	0.47
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.79	0.47
2:C:881:ASN:N	2:C:881:ASN:ND2	2.61	0.47
2:C:1088:LEU:CD2	2:C:1092:LEU:HD12	2.44	0.47
3:D:191:LEU:CD1	3:D:211:VAL:HG21	2.38	0.47
3:D:783:ARG:CZ	3:D:1029:ARG:HG2	2.43	0.47
3:D:1132:LEU:HB2	9:D:9899:HOH:O	2.13	0.47
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.27	0.47
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.13	0.47
5:F:291:ILE:HG12	5:F:304:VAL:HG11	1.97	0.47
2:M:75:GLU:HA	9:M:1533:HOH:O	2.13	0.47
2:M:644:VAL:HG22	2:M:647:GLN:OE1	2.14	0.47
2:M:703:ILE:HG22	9:M:1341:HOH:O	2.14	0.47
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.14	0.47
2:M:1035:MET:HB2	9:M:1611:HOH:O	2.14	0.47
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.44	0.47
3:N:459:GLU:HG2	9:N:9680:HOH:O	2.14	0.47
3:N:893:GLU:O	3:N:896:ALA:HB3	2.15	0.47
9:N:9977:HOH:O	5:P:258:ILE:HG13	2.14	0.47
4:O:70:THR:CG2	4:O:72:ARG:HE	2.26	0.47
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.77	0.47
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.44	0.47
2:C:443:THR:CG2	2:C:449:ILE:HG13	2.44	0.47
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.44	0.47
3:D:1031:ASN:O	3:D:1034:GLN:HB2	2.14	0.47
3:D:1087:ARG:HG2	3:D:1234:THR:O	2.15	0.47
3:D:1236:LEU:HA	3:D:1359:GLN:CD	2.40	0.47
3:D:1503:VAL:HG11	9:D:9429:HOH:O	2.13	0.47
5:F:264:MET:O	5:F:268:ILE:HD12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:392:VAL:HG12	5:F:396:ARG:HB2	1.96	0.47
1:K:9:PRO:HG2	1:L:224:TYR:CD2	2.48	0.47
1:L:104:GLU:OE1	1:L:137:ARG:HA	2.13	0.47
1:L:191:ASP:O	1:L:192:LEU:HG	2.14	0.47
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.44	0.47
2:M:625:LEU:O	2:M:627:ARG:N	2.46	0.47
2:M:625:LEU:CD1	2:M:641:PRO:HG3	2.43	0.47
2:M:742:VAL:HG12	2:M:743:VAL:N	2.29	0.47
3:N:34:TYR:O	3:N:35:ARG:C	2.57	0.47
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.50	0.47
3:N:131:LYS:HD2	9:P:609:HOH:O	2.13	0.47
3:N:191:LEU:HD22	3:N:195:VAL:CG2	2.43	0.47
3:N:488:ARG:HG3	3:N:488:ARG:HH11	1.79	0.47
3:N:494:LYS:HA	3:N:497:GLU:CD	2.40	0.47
3:N:550:ARG:HD2	3:N:573:MET:HB3	1.97	0.47
3:N:565:ILE:HG23	5:P:83:GLN:NE2	2.29	0.47
3:N:907:GLU:O	3:N:911:LEU:HD13	2.14	0.47
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.14	0.47
3:N:1432:LYS:CD	3:N:1433:SER:H	2.27	0.47
5:P:399:GLN:HG2	9:P:545:HOH:O	2.14	0.47
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.97	0.47
1:A:216:GLU:O	1:A:220:GLU:HG3	2.15	0.47
2:C:262:ALA:O	2:C:264:PRO:O	2.33	0.47
2:C:517:ARG:HH11	2:C:522:VAL:HG11	1.75	0.47
2:C:645:VAL:HA	9:C:9535:HOH:O	2.14	0.47
2:C:714:ASP:HB2	9:C:9031:HOH:O	2.13	0.47
2:C:789:SER:O	2:C:791:ARG:HG2	2.14	0.47
3:D:17:LYS:HA	3:D:20:SER:HB2	1.96	0.47
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.96	0.47
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.80	0.47
3:D:101:HIS:NE2	3:D:582:LEU:HD22	2.30	0.47
3:D:243:ALA:HB1	9:D:9815:HOH:O	2.13	0.47
3:D:729:HIS:ND1	3:D:730:PRO:N	2.62	0.47
3:D:847:ASP:O	3:D:850:LEU:HG	2.14	0.47
3:D:947:ILE:HD12	3:D:947:ILE:O	2.14	0.47
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.13	0.47
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.96	0.47
2:M:115:LEU:CD1	2:M:373:VAL:HG11	2.44	0.47
2:M:140:ILE:CG2	2:M:333:ILE:HG13	2.45	0.47
2:M:464:LEU:HD12	2:M:464:LEU:HA	1.70	0.47
2:M:578:VAL:N	2:M:671:ASN:HD21	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1045:ALA:HB2	3:N:763:MET:HE1	1.96	0.47
3:N:71:LYS:HE3	9:N:2078:HOH:O	2.15	0.47
3:N:102:ILE:HD11	9:N:2283:HOH:O	2.13	0.47
3:N:129:PHE:O	3:N:572:ARG:HG2	2.14	0.47
3:N:134:VAL:HG13	9:N:9888:HOH:O	2.13	0.47
3:N:160:GLU:HG3	3:N:165:LYS:O	2.15	0.47
3:N:844:ALA:O	3:N:867:ARG:HB3	2.13	0.47
3:N:863:VAL:HG23	9:N:9189:HOH:O	2.14	0.47
3:N:886:VAL:HG13	3:N:930:LEU:HD11	1.96	0.47
3:N:928:ALA:O	3:N:931:LEU:HB2	2.14	0.47
3:N:962:GLN:O	3:N:966:GLU:HG3	2.13	0.47
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.77	0.47
3:N:1026:SER:C	3:N:1028:ALA:H	2.21	0.47
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.45	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.40	0.47
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	2.14	0.47
5:P:91:VAL:HG11	9:P:477:HOH:O	2.13	0.47
5:P:122:LEU:HD21	5:P:126:LEU:HB3	1.97	0.47
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.80	0.47
2:C:133:ASP:OD2	2:C:133:ASP:N	2.46	0.47
2:C:166:PRO:HD2	9:C:9424:HOH:O	2.15	0.47
2:C:212:GLY:C	2:C:215:GLY:H	2.23	0.47
2:C:286:SER:HB3	2:C:299:LYS:CE	2.45	0.47
2:C:585:GLU:N	9:C:9558:HOH:O	2.48	0.47
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.96	0.47
2:C:617:ASP:HB3	9:C:9258:HOH:O	2.14	0.47
2:C:774:LEU:HB2	9:C:9721:HOH:O	2.13	0.47
3:D:33:ASN:HB3	3:D:35:ARG:NH1	2.28	0.47
3:D:1148:VAL:HG11	3:D:1203:LYS:HE3	1.95	0.47
3:D:1249:ALA:HB2	9:D:9479:HOH:O	2.14	0.47
3:D:1302:GLU:OE2	3:D:1304:LYS:HG3	2.15	0.47
5:F:208:SER:HA	9:F:465:HOH:O	2.14	0.47
1:L:80:LEU:HD11	3:N:842:VAL:HB	1.96	0.47
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.96	0.47
2:M:114:PHE:O	2:M:114:PHE:HD2	1.97	0.47
2:M:176:VAL:C	2:M:178:PRO:HD3	2.39	0.47
2:M:256:TYR:HD1	9:M:1213:HOH:O	1.98	0.47
2:M:285:LEU:HD12	2:M:288:ARG:O	2.15	0.47
2:M:328:LEU:HD22	2:M:433:THR:O	2.15	0.47
2:M:350:ARG:HG3	9:M:2249:HOH:O	2.15	0.47
2:M:579:VAL:HA	2:M:901:TYR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1111:ILE:HG12	2:M:1112:PHE:HD1	1.79	0.47
3:N:55:ASP:HA	3:N:82:LYS:CG	2.36	0.47
3:N:112:ILE:HD13	3:N:461:ILE:HG21	1.96	0.47
3:N:442:ASN:HB2	9:N:9986:HOH:O	2.13	0.47
3:N:613:ARG:NH2	3:N:617:ASN:HD21	2.12	0.47
3:N:1302:GLU:HB2	9:N:2060:HOH:O	2.15	0.47
4:O:82:GLU:O	4:O:85:LEU:HD22	2.14	0.47
1:A:182:GLU:O	1:A:194:LYS:HB3	2.15	0.47
2:C:98:LEU:HD11	9:C:9172:HOH:O	2.13	0.47
2:C:300:ASP:HA	9:C:9351:HOH:O	2.14	0.47
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.95	0.47
2:C:902:ILE:HG23	9:C:9373:HOH:O	2.15	0.47
3:D:112:ILE:HD12	3:D:112:ILE:O	2.14	0.47
3:D:119:SER:H	3:D:123:LEU:CB	2.26	0.47
3:D:723:GLY:HA3	9:D:2200:HOH:O	2.15	0.47
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.95	0.47
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.95	0.47
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.14	0.47
5:F:404:ALA:HA	9:F:728:HOH:O	2.15	0.47
1:K:123:MET:C	1:K:125:PRO:HD3	2.40	0.47
1:L:58:ILE:HG23	9:L:2434:HOH:O	2.15	0.47
1:L:127:LEU:HD12	1:L:128:HIS:N	2.29	0.47
1:L:150:TYR:CD2	3:N:857:ILE:HG13	2.50	0.47
2:M:288:ARG:CZ	2:M:288:ARG:HB2	2.43	0.47
2:M:697:ARG:HB2	9:M:1324:HOH:O	2.13	0.47
2:M:726:ILE:HG22	2:M:726:ILE:O	2.15	0.47
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.54	0.47
2:M:902:ILE:O	2:M:904:PRO:HD3	2.15	0.47
3:N:586:ARG:HA	3:N:586:ARG:NE	2.29	0.47
3:N:702:LEU:N	9:N:9949:HOH:O	2.48	0.47
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.80	0.47
9:N:9488:HOH:O	5:P:259:ARG:HD2	2.15	0.47
5:P:166:LEU:HA	9:P:824:HOH:O	2.15	0.47
1:B:19:GLU:O	1:B:200:TRP:HA	2.14	0.47
1:B:23:PHE:CE2	1:B:199:ILE:HD12	2.50	0.47
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.47
1:B:164:ALA:HB2	9:B:316:HOH:O	2.15	0.47
1:B:175:ARG:HA	9:B:363:HOH:O	2.14	0.47
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.29	0.47
2:C:137:VAL:CG2	2:C:391:LEU:HG	2.44	0.47
2:C:164:PRO:HB2	9:C:9863:HOH:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:209:ARG:O	2:C:213:ALA:HB2	2.14	0.47
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.25	0.47
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.27	0.47
2:C:602:GLU:HA	2:C:647:GLN:O	2.15	0.47
2:C:775:ARG:HE	2:C:782:ALA:CB	2.28	0.47
2:C:787:ASP:C	2:C:787:ASP:OD1	2.57	0.47
2:C:817:PRO:C	2:C:819:VAL:H	2.21	0.47
2:C:820:ARG:HG2	2:C:820:ARG:HH11	1.79	0.47
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.79	0.47
2:C:983:ILE:HG23	3:D:944:THR:O	2.14	0.47
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.44	0.47
3:D:41:ARG:CD	3:D:42:ASP:H	2.27	0.47
3:D:601:ARG:HG2	3:D:606:ILE:CD1	2.42	0.47
3:D:799:LYS:H	3:D:826:PRO:HG2	1.80	0.47
3:D:926:LYS:HD3	9:D:9733:HOH:O	2.13	0.47
3:D:951:ILE:HD13	3:D:951:ILE:HA	1.69	0.47
3:D:1225:ALA:HA	3:D:1367:HIS:ND1	2.30	0.47
3:D:1465:ASN:HD21	3:D:1470:ARG:HH11	1.60	0.47
4:E:17:TYR:O	4:E:21:VAL:HG23	2.15	0.47
4:E:28:GLN:O	4:E:31:LEU:HG	2.15	0.47
5:F:110:MET:HG3	9:F:919:HOH:O	2.14	0.47
5:F:277:GLN:HA	9:F:518:HOH:O	2.15	0.47
1:K:29:GLU:HB2	1:K:32:PHE:CE1	2.49	0.47
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.50	0.47
1:L:28:LEU:HB3	9:L:1824:HOH:O	2.14	0.47
1:L:99:LEU:HD11	9:L:4796:HOH:O	2.14	0.47
2:M:165:LEU:HA	2:M:166:PRO:O	2.15	0.47
2:M:175:GLU:HB3	2:M:183:SER:OG	2.14	0.47
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.29	0.47
2:M:557:ARG:NE	2:M:879:ARG:HG2	2.30	0.47
2:M:580:MET:HB2	2:M:902:ILE:CD1	2.44	0.47
2:M:674:VAL:HG23	2:M:869:VAL:O	2.15	0.47
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.96	0.47
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.45	0.47
2:M:816:LYS:O	2:M:819:VAL:HB	2.15	0.47
2:M:1001:VAL:HG12	9:M:2086:HOH:O	2.14	0.47
3:N:146:PRO:HG2	9:N:9420:HOH:O	2.14	0.47
3:N:161:LEU:HD11	3:N:452:ILE:HD13	1.96	0.47
3:N:483:HIS:N	3:N:483:HIS:ND1	2.61	0.47
3:N:534:ARG:HA	9:P:700:HOH:O	2.14	0.47
3:N:556:LYS:NZ	9:N:2200:HOH:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:621:LYS:HB2	9:N:9549:HOH:O	2.14	0.47
3:N:695:ILE:HG13	9:N:9171:HOH:O	2.14	0.47
3:N:969:ARG:HG3	9:N:9204:HOH:O	2.15	0.47
3:N:994:GLN:HG2	9:N:9836:HOH:O	2.14	0.47
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.29	0.47
5:P:264:MET:HB3	9:P:696:HOH:O	2.15	0.47
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.44	0.47
5:P:356:LYS:HE3	9:P:529:HOH:O	2.15	0.47
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.50	0.47
1:B:137:ARG:HG2	9:B:322:HOH:O	2.15	0.47
2:C:7:GLY:HA3	2:C:907:ASP:O	2.15	0.47
2:C:41:ASN:H	2:C:41:ASN:HD22	1.63	0.47
2:C:854:PRO:C	2:C:856:GLU:N	2.70	0.47
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.48	0.47
3:D:553:ARG:HD2	3:D:570:GLU:CD	2.38	0.47
3:D:607:LEU:HA	3:D:613:ARG:HB2	1.97	0.47
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.95	0.47
3:D:1258:ARG:HG2	9:D:9685:HOH:O	2.15	0.47
1:L:41:ARG:HG2	9:L:1814:HOH:O	2.14	0.47
1:L:86:VAL:HG12	1:L:124:ASN:CG	2.40	0.47
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.96	0.47
2:M:20:GLU:HB3	9:M:1513:HOH:O	2.15	0.47
2:M:462:ASP:CG	2:M:463:GLU:H	2.22	0.47
2:M:941:VAL:O	2:M:944:LEU:HB2	2.15	0.47
3:N:116:LEU:HD13	3:N:118:LEU:HD11	1.96	0.47
3:N:629:SER:OG	3:N:726:ILE:HG13	2.14	0.47
3:N:950:GLY:O	3:N:951:ILE:C	2.55	0.47
3:N:1231:GLU:HG2	3:N:1232:PRO:N	2.29	0.47
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.47
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.43	0.47
5:P:419:ARG:O	5:P:421:PHE:N	2.48	0.47
1:A:137:ARG:CZ	1:A:137:ARG:HB3	2.44	0.47
1:B:132:LEU:HD13	1:B:138:LEU:HD22	1.96	0.47
2:C:537:LYS:H	2:C:537:LYS:CD	2.27	0.47
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.97	0.47
2:C:1018:GLN:HE21	2:C:1060:ILE:HD11	1.78	0.47
3:D:399:ARG:NH1	9:D:9441:HOH:O	2.47	0.47
3:D:475:LYS:HG3	9:D:2336:HOH:O	2.15	0.47
3:D:555:LYS:HA	3:D:558:LEU:HD12	1.97	0.47
3:D:565:ILE:HD12	3:D:565:ILE:N	2.29	0.47
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.50	0.47
3:D:1370:ILE:HG22	9:D:9744:HOH:O	2.14	0.47
4:E:40:LEU:HD13	9:E:136:HOH:O	2.15	0.47
5:F:372:ARG:HB3	9:F:706:HOH:O	2.15	0.47
1:L:18:ARG:O	1:L:207:PRO:HD3	2.15	0.47
1:L:39:PRO:O	1:L:43:ILE:HG12	2.15	0.47
1:L:137:ARG:HD3	9:L:8082:HOH:O	2.13	0.47
1:L:153:ALA:HB1	1:L:166:PRO:HB2	1.97	0.47
2:M:172:ILE:HA	2:M:185:LYS:O	2.14	0.47
2:M:173:ASP:O	2:M:184:MET:HA	2.15	0.47
2:M:212:GLY:C	2:M:215:GLY:H	2.23	0.47
2:M:332:ARG:CZ	2:M:464:LEU:HG	2.45	0.47
2:M:770:GLU:CG	3:N:65:ARG:HH22	2.28	0.47
2:M:961:GLU:HA	2:M:961:GLU:OE2	2.15	0.47
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.50	0.47
2:M:1092:LEU:HD13	2:M:1099:VAL:CG2	2.41	0.47
3:N:188:GLY:HA3	9:N:9365:HOH:O	2.15	0.47
3:N:417:PRO:HB3	9:N:9679:HOH:O	2.14	0.47
3:N:832:ARG:HB3	3:N:833:GLU:OE1	2.14	0.47
3:N:1288:GLU:HG2	3:N:1289:LYS:HG3	1.96	0.47
5:P:416:ARG:HB2	9:P:805:HOH:O	2.14	0.47
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.50	0.47
1:B:161:ARG:HB2	9:B:316:HOH:O	2.15	0.47
1:B:205:VAL:HG11	9:B:515:HOH:O	2.15	0.47
2:C:129:ILE:HG22	2:C:130:ASN:ND2	2.30	0.47
2:C:264:PRO:HB3	2:C:289:THR:HB	1.95	0.47
2:C:367:LEU:HG	9:C:9562:HOH:O	2.14	0.47
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.41	0.47
2:C:679:PHE:HB3	9:C:9083:HOH:O	2.15	0.47
2:C:721:ARG:O	2:C:758:ARG:HA	2.15	0.47
3:D:82:LYS:O	3:D:85:VAL:HG22	2.15	0.47
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.96	0.47
3:D:701:LEU:HD23	9:D:9229:HOH:O	2.15	0.47
3:D:967:ALA:O	3:D:995:LEU:HD21	2.15	0.47
3:D:1192:LEU:HD22	3:D:1345:GLU:CD	2.40	0.47
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.15	0.47
5:F:110:MET:HG2	5:F:114:LYS:HE3	1.96	0.47
5:F:302:LYS:O	5:F:306:GLU:HB2	2.15	0.47
5:F:393:THR:O	5:F:397:ILE:HG13	2.15	0.47
1:K:63:HIS:HD2	1:K:65:PHE:N	2.13	0.47
2:M:3:ILE:HD13	2:M:900:ARG:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.96	0.47
2:M:134:ARG:N	9:M:1509:HOH:O	2.47	0.47
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.42	0.47
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.97	0.47
2:M:480:THR:HG22	2:M:481:ASP:H	1.80	0.47
2:M:875:GLY:HA2	2:M:879:ARG:HH11	1.80	0.47
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.49	0.47
3:N:447:VAL:HG11	9:N:9570:HOH:O	2.14	0.47
3:N:490:ALA:HA	9:N:9898:HOH:O	2.15	0.47
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.47
3:N:953:ASP:O	3:N:955:VAL:HG23	2.14	0.47
3:N:973:GLN:HG2	9:N:9757:HOH:O	2.15	0.47
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.97	0.47
4:O:38:THR:OG1	4:O:40:LEU:HD12	2.15	0.47
5:P:337:HIS:CD2	5:P:337:HIS:N	2.82	0.47
1:A:124:ASN:ND2	1:A:127:LEU:HD23	2.30	0.46
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.50	0.46
1:B:160:ASP:HB3	9:B:469:HOH:O	2.15	0.46
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.96	0.46
2:C:338:GLU:CA	2:C:341:THR:HG22	2.44	0.46
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.44	0.46
2:C:620:LEU:HD13	2:C:620:LEU:N	2.30	0.46
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.80	0.46
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.75	0.46
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.97	0.46
2:C:1115:LEU:HD12	2:C:1115:LEU:H	1.80	0.46
3:D:53:ILE:O	3:D:53:ILE:HG12	2.14	0.46
3:D:93:ILE:HG12	3:D:548:ILE:CD1	2.43	0.46
3:D:131:LYS:HE3	9:F:426:HOH:O	2.15	0.46
3:D:173:PRO:HG3	9:D:9980:HOH:O	2.14	0.46
3:D:630:VAL:O	3:D:726:ILE:HG13	2.14	0.46
3:D:1408:ILE:HB	9:D:2476:HOH:O	2.14	0.46
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.97	0.46
5:F:93:LEU:HD22	5:F:98:GLU:CB	2.40	0.46
1:K:227:ASN:ND2	1:K:227:ASN:N	2.62	0.46
2:M:242:LEU:HA	9:M:1222:HOH:O	2.15	0.46
2:M:262:ALA:O	2:M:264:PRO:O	2.33	0.46
2:M:301:GLU:HG2	9:M:1706:HOH:O	2.14	0.46
2:M:579:VAL:HB	2:M:890:LEU:CD2	2.45	0.46
2:M:633:GLN:H	2:M:633:GLN:CD	2.23	0.46
3:N:6:ARG:HB3	3:N:6:ARG:HH11	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.50	0.46
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.97	0.46
3:N:828:LYS:HB3	9:N:9189:HOH:O	2.14	0.46
3:N:911:LEU:O	3:N:915:VAL:HG23	2.14	0.46
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.42	0.46
5:P:115:LYS:O	5:P:119:ILE:HG13	2.15	0.46
1:B:36:LEU:O	1:B:39:PRO:HD2	2.15	0.46
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.50	0.46
2:C:154:ARG:HG2	9:C:9795:HOH:O	2.14	0.46
2:C:359:MET:HB3	9:C:9102:HOH:O	2.14	0.46
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.45	0.46
2:C:557:ARG:CD	2:C:879:ARG:HG2	2.45	0.46
2:C:571:LEU:HD13	2:C:669:GLY:H	1.79	0.46
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.32	0.46
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.45	0.46
3:D:112:ILE:O	3:D:116:LEU:HB2	2.15	0.46
3:D:586:ARG:HD2	9:D:2328:HOH:O	2.15	0.46
3:D:633:VAL:HG22	3:D:635:PRO:HG3	1.97	0.46
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.45	0.46
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.73	0.46
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.30	0.46
5:F:93:LEU:HG	5:F:190:ALA:HB3	1.97	0.46
5:F:393:THR:HG21	9:F:773:HOH:O	2.14	0.46
2:M:19:THR:HG21	2:M:125:GLY:HA3	1.97	0.46
2:M:135:VAL:CG2	2:M:395:LYS:HG3	2.45	0.46
2:M:218:VAL:HG22	2:M:221:LEU:HD23	1.96	0.46
2:M:232:GLU:O	2:M:235:LEU:HB2	2.15	0.46
2:M:569:VAL:HG11	2:M:996:LYS:HZ3	1.77	0.46
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.97	0.46
2:M:636:ALA:HB3	9:M:1680:HOH:O	2.14	0.46
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.45	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.79	0.46
9:M:1991:HOH:O	5:P:373:LYS:HD2	2.15	0.46
3:N:7:LYS:HB3	3:N:1458:GLU:OE1	2.15	0.46
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.46	0.46
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.50	0.46
3:N:548:ILE:HG23	9:N:2135:HOH:O	2.15	0.46
3:N:836:VAL:HG12	9:N:9623:HOH:O	2.14	0.46
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.96	0.46
3:N:1153:VAL:HG12	3:N:1155:VAL:CG2	2.46	0.46
3:N:1494:ALA:HB1	4:O:88:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.63	0.46
5:P:166:LEU:HD23	9:P:824:HOH:O	2.13	0.46
2:C:126:SER:HB2	2:C:407:LYS:HE3	1.96	0.46
2:C:480:THR:HG22	2:C:482:GLU:N	2.29	0.46
2:C:889:HIS:CE1	3:D:951:ILE:H	2.32	0.46
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.96	0.46
3:D:96:ALA:HB3	9:D:9846:HOH:O	2.14	0.46
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.97	0.46
3:D:534:ARG:HG2	9:D:9708:HOH:O	2.15	0.46
3:D:783:ARG:HH11	3:D:783:ARG:HG2	1.80	0.46
3:D:864:VAL:HG12	3:D:865:THR:N	2.30	0.46
3:D:1026:SER:C	3:D:1028:ALA:N	2.73	0.46
3:D:1065:LEU:HD11	3:D:1070:TYR:HA	1.97	0.46
3:D:1299:PHE:CD2	3:D:1299:PHE:N	2.84	0.46
5:F:117:SER:OG	5:F:124:PRO:HG3	2.15	0.46
1:K:64:GLU:HB2	9:K:7447:HOH:O	2.14	0.46
1:L:70:GLY:HA2	9:L:3618:HOH:O	2.15	0.46
2:M:176:VAL:HG12	9:M:1933:HOH:O	2.15	0.46
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.96	0.46
2:M:753:ASP:N	2:M:791:ARG:HH12	2.12	0.46
2:M:1091:GLU:O	2:M:1094:ALA:HB3	2.16	0.46
3:N:135:LEU:HD21	3:N:138:LYS:C	2.41	0.46
3:N:400:VAL:HA	3:N:442:ASN:O	2.15	0.46
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.97	0.46
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.96	0.46
3:N:969:ARG:HD2	9:N:9652:HOH:O	2.15	0.46
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.15	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.46
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.30	0.46
4:O:51:LEU:HD23	9:O:6827:HOH:O	2.15	0.46
5:P:79:ASP:OD1	5:P:80:PRO:HD3	2.15	0.46
1:A:23:PHE:CE1	1:A:211:LEU:HD23	2.50	0.46
1:A:91:ASN:O	1:A:94:LEU:HD12	2.14	0.46
1:A:108:GLU:HB2	9:A:426:HOH:O	2.14	0.46
1:A:227:ASN:ND2	1:A:227:ASN:H	2.13	0.46
1:B:1:MET:O	1:B:6:LEU:HD13	2.15	0.46
2:C:437:ARG:HG2	2:C:467:ILE:O	2.15	0.46
2:C:668:LEU:O	2:C:993:PHE:CZ	2.68	0.46
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.97	0.46
3:D:162:ARG:HE	3:D:434:ARG:NE	2.13	0.46
3:D:416:ALA:H	3:D:417:PRO:CD	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:637:LEU:HD11	3:D:642:CYS:N	2.31	0.46
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.80	0.46
4:E:63:TRP:O	4:E:67:GLU:HG3	2.15	0.46
5:F:88:ILE:HB	5:F:193:ARG:NH1	2.31	0.46
5:F:192:LEU:O	5:F:192:LEU:HD23	2.15	0.46
5:F:205:ARG:HG3	5:F:251:ILE:HD13	1.97	0.46
1:K:94:LEU:HA	9:K:6293:HOH:O	2.14	0.46
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.51	0.46
2:M:56:GLU:HB2	2:M:64:LEU:HD23	1.97	0.46
2:M:164:PRO:HG2	9:M:1159:HOH:O	2.16	0.46
2:M:577:PRO:HD2	2:M:580:MET:HG2	1.98	0.46
2:M:694:LEU:CD1	2:M:868:ASP:HB3	2.46	0.46
2:M:1016:ILE:HG21	9:P:709:HOH:O	2.15	0.46
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.63	0.46
3:N:417:PRO:HA	5:P:168:LYS:NZ	2.30	0.46
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.42	0.46
3:N:468:LEU:HD21	9:N:9382:HOH:O	2.15	0.46
3:N:792:ILE:O	3:N:878:GLY:HA3	2.15	0.46
3:N:1274:ILE:HD11	3:N:1334:GLN:CD	2.40	0.46
5:P:317:LEU:O	5:P:330:GLY:N	2.49	0.46
5:P:399:GLN:HB3	9:P:437:HOH:O	2.16	0.46
1:A:211:LEU:O	1:A:211:LEU:HD12	2.15	0.46
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.43	0.46
2:C:126:SER:CB	2:C:395:LYS:HD2	2.46	0.46
2:C:410:ILE:N	2:C:410:ILE:HD12	2.31	0.46
2:C:547:ILE:HB	2:C:550:LEU:HD13	1.96	0.46
2:C:852:ILE:HD12	2:C:852:ILE:N	2.30	0.46
2:C:957:LYS:HA	9:C:9426:HOH:O	2.15	0.46
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.16	0.46
9:C:9488:HOH:O	3:D:853:VAL:HG12	2.14	0.46
3:D:474:GLU:O	3:D:478:LEU:HG	2.15	0.46
3:D:648:MET:HG2	3:D:652:LEU:HD22	1.98	0.46
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.50	0.46
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.79	0.46
3:D:1166:LEU:CD1	3:D:1171:VAL:HG22	2.45	0.46
3:D:1490:LYS:HA	9:D:9819:HOH:O	2.15	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:NE	2.31	0.46
1:K:227:ASN:H	1:K:227:ASN:HD22	1.62	0.46
1:L:19:GLU:HG3	1:L:201:THR:O	2.15	0.46
1:L:185:ARG:HG3	1:L:190:THR:CG2	2.44	0.46
1:L:211:LEU:O	1:L:214:ALA:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.46	0.46
2:M:293:PHE:O	2:M:293:PHE:CG	2.68	0.46
2:M:305:PRO:CB	2:M:308:ARG:HH21	2.27	0.46
2:M:564:MET:HG3	2:M:997:LEU:HD11	1.97	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.98	0.46
2:M:1075:ASP:OD1	4:O:28:GLN:HA	2.16	0.46
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.96	0.46
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.97	0.46
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.96	0.46
3:N:440:VAL:HG21	9:N:2386:HOH:O	2.15	0.46
3:N:600:LEU:N	3:N:600:LEU:HD23	2.31	0.46
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.24	0.46
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.51	0.46
3:N:1137:ARG:O	3:N:1138:ALA:C	2.57	0.46
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.45	0.46
1:B:91:ASN:O	1:B:94:LEU:HD12	2.16	0.46
1:B:100:LEU:HB2	1:B:115:LEU:HD23	1.98	0.46
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.97	0.46
2:C:41:ASN:HB3	9:C:9884:HOH:O	2.14	0.46
2:C:42:VAL:HG21	9:C:9398:HOH:O	2.14	0.46
2:C:405:ARG:HH21	2:C:409:ARG:HH22	1.64	0.46
2:C:603:VAL:HG23	2:C:647:GLN:H	1.80	0.46
2:C:703:ILE:CD1	2:C:830:LYS:HG2	2.46	0.46
2:C:769:PRO:HD3	9:C:9528:HOH:O	2.14	0.46
2:C:884:GLN:HG3	2:C:885:ILE:CD1	2.46	0.46
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.98	0.46
3:D:491:LYS:HD3	3:D:492:ALA:N	2.31	0.46
3:D:493:ARG:CZ	3:D:1388:ARG:HB3	2.45	0.46
3:D:554:LEU:HG	9:D:9846:HOH:O	2.15	0.46
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.98	0.46
3:D:834:THR:HA	3:D:838:ARG:HE	1.80	0.46
3:D:980:MET:HE1	9:D:9276:HOH:O	2.15	0.46
3:D:1140:ILE:CG2	3:D:1175:ILE:HD11	2.46	0.46
3:D:1155:VAL:HG12	3:D:1156:LEU:HG	1.98	0.46
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.31	0.46
4:E:59:ASN:ND2	9:E:126:HOH:O	2.49	0.46
5:F:110:MET:HE3	5:F:114:LYS:NZ	2.31	0.46
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.51	0.46
5:F:321:ILE:HG12	5:F:327:SER:O	2.16	0.46
1:K:71:VAL:HB	9:K:6766:HOH:O	2.15	0.46
1:L:74:ASP:O	1:L:78:ILE:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.30	0.46
2:M:549:PHE:CE2	2:M:886:LEU:HD22	2.51	0.46
2:M:577:PRO:HG3	2:M:993:PHE:CZ	2.50	0.46
2:M:752:GLY:O	3:N:679:ARG:HG2	2.15	0.46
3:N:192:ALA:HB3	9:N:9164:HOH:O	2.15	0.46
3:N:608:SER:HA	9:N:2415:HOH:O	2.15	0.46
3:N:774:SER:C	3:N:776:GLU:N	2.74	0.46
3:N:937:TYR:O	3:N:941:PHE:HD1	1.99	0.46
3:N:1161:GLU:OE2	3:N:1164:ARG:HB2	2.16	0.46
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.45	0.46
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.51	0.46
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.49	0.46
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.63	0.46
5:P:142:ARG:NH1	5:P:150:THR:HG21	2.30	0.46
5:P:148:LYS:HB2	9:P:499:HOH:O	2.16	0.46
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.24	0.46
1:A:115:LEU:HD12	9:A:323:HOH:O	2.16	0.46
1:A:178:ALA:HB1	9:A:479:HOH:O	2.16	0.46
1:A:209:GLU:HG3	9:A:478:HOH:O	2.15	0.46
1:B:68:ILE:O	1:B:71:VAL:HB	2.16	0.46
1:B:162:ILE:HB	9:B:452:HOH:O	2.16	0.46
2:C:235:LEU:HA	9:C:2185:HOH:O	2.15	0.46
2:C:586:ARG:HG2	9:C:9527:HOH:O	2.16	0.46
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.97	0.46
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.97	0.46
2:C:824:ARG:HG2	2:C:824:ARG:HH11	1.81	0.46
2:C:961:GLU:HG2	9:C:9189:HOH:O	2.16	0.46
3:D:53:ILE:HD12	9:D:9779:HOH:O	2.16	0.46
3:D:133:ILE:HG22	3:D:455:ARG:C	2.40	0.46
3:D:186:VAL:HG13	3:D:187:LYS:N	2.30	0.46
3:D:530:VAL:HB	3:D:534:ARG:CB	2.35	0.46
3:D:552:ASN:HA	3:D:555:LYS:HD2	1.97	0.46
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.46	0.46
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.45	0.46
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.98	0.46
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.16	0.46
3:D:1264:GLU:OE2	3:D:1424:VAL:N	2.47	0.46
4:E:37:ASN:HA	4:E:93:TYR:CZ	2.51	0.46
4:E:50:THR:HG21	9:E:157:HOH:O	2.16	0.46
5:F:75:ILE:HG22	9:F:491:HOH:O	2.15	0.46
1:K:36:LEU:C	1:K:39:PRO:HD2	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.96	0.46
1:K:211:LEU:O	1:K:214:ALA:HB3	2.15	0.46
2:M:326:ASP:N	2:M:326:ASP:OD1	2.49	0.46
2:M:474:VAL:HG13	2:M:530:GLU:C	2.41	0.46
2:M:1049:LEU:O	2:M:1049:LEU:HD23	2.16	0.46
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.81	0.46
3:N:33:ASN:HD21	5:P:259:ARG:HG2	1.81	0.46
3:N:209:ARG:HH22	3:N:397:LYS:HG3	1.79	0.46
3:N:407:VAL:HG23	3:N:408:GLU:HG3	1.98	0.46
3:N:422:ALA:O	3:N:427:VAL:HG21	2.15	0.46
3:N:473:LEU:HD21	3:N:495:ARG:CZ	2.46	0.46
3:N:484:PRO:HB3	9:N:2002:HOH:O	2.15	0.46
3:N:950:GLY:C	3:N:952:ASP:N	2.70	0.46
3:N:958:GLU:HA	9:N:9370:HOH:O	2.15	0.46
3:N:1087:ARG:HD2	3:N:1234:THR:O	2.15	0.46
3:N:1123:PHE:HB3	3:N:1133:ARG:O	2.14	0.46
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.16	0.46
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.15	0.46
4:O:45:ARG:H	4:O:45:ARG:HD2	1.80	0.46
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.46	0.46
1:B:1:MET:HG3	9:B:318:HOH:O	2.15	0.46
2:C:115:LEU:HB3	9:C:2035:HOH:O	2.15	0.46
2:C:136:ILE:HD13	2:C:392:SER:HB2	1.96	0.46
2:C:1007:ALA:HB1	3:D:652:LEU:HD13	1.98	0.46
2:C:1105:LYS:O	2:C:1107:ASN:N	2.49	0.46
2:C:1115:LEU:HD23	3:D:85:VAL:N	2.31	0.46
3:D:129:PHE:CE2	3:D:587:ARG:HD3	2.50	0.46
3:D:737:ASN:HB3	9:D:2458:HOH:O	2.16	0.46
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.98	0.46
4:E:18:ARG:HB3	9:E:128:HOH:O	2.15	0.46
5:F:181:GLU:O	5:F:184:ARG:HB3	2.15	0.46
1:K:149:GLY:O	1:K:171:PHE:HB2	2.15	0.46
2:M:247:PRO:HB3	9:M:1247:HOH:O	2.15	0.46
2:M:305:PRO:HB3	2:M:308:ARG:HH21	1.81	0.46
2:M:420:ARG:CG	2:M:422:ARG:HG2	2.46	0.46
2:M:668:LEU:H	2:M:668:LEU:HD12	1.80	0.46
2:M:950:LEU:HD13	9:M:1413:HOH:O	2.15	0.46
2:M:1105:LYS:O	2:M:1107:ASN:N	2.49	0.46
3:N:546:ARG:HB3	3:N:546:ARG:CZ	2.46	0.46
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.45	0.46
3:N:716:PHE:HD1	9:N:9949:HOH:O	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1320:GLU:H	3:N:1323:GLN:NE2	2.13	0.46
5:P:277:GLN:O	5:P:280:GLN:HB3	2.15	0.46
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.40	0.46
1:B:16:GLN:HG2	9:B:527:HOH:O	2.14	0.46
1:B:84:GLU:CG	1:B:127:LEU:HD11	2.46	0.46
2:C:86:LYS:HE2	2:C:813:VAL:CG1	2.40	0.46
2:C:108:ILE:HD11	2:C:365:ASP:OD2	2.16	0.46
2:C:654:LEU:HD13	2:C:664:GLY:N	2.31	0.46
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.97	0.46
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.17	0.46
2:C:956:GLY:HA2	9:C:9318:HOH:O	2.16	0.46
2:C:1035:MET:HB3	3:D:707:THR:O	2.15	0.46
3:D:90:MET:HB3	3:D:90:MET:HE2	1.68	0.46
3:D:103:TRP:NE1	3:D:604:THR:OG1	2.49	0.46
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.36	0.46
3:D:671:LYS:N	9:D:9143:HOH:O	2.48	0.46
3:D:724:GLN:HE21	3:D:725:SER:N	2.13	0.46
3:D:774:SER:C	3:D:776:GLU:N	2.74	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.45	0.46
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.15	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:CD	2.46	0.46
4:E:77:GLU:HB2	9:E:179:HOH:O	2.14	0.46
5:F:421:PHE:C	5:F:423:ASP:H	2.23	0.46
1:K:41:ARG:HG3	1:K:177:VAL:HB	1.96	0.46
1:K:143:ARG:HD3	1:K:144:VAL:H	1.80	0.46
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.44	0.46
2:M:139:GLN:O	2:M:334:ARG:N	2.47	0.46
2:M:492:ASP:HB3	2:M:518:LYS:HG2	1.97	0.46
3:N:432:TYR:HA	3:N:448:GLU:O	2.15	0.46
3:N:462:GLN:CA	3:N:513:ILE:HD13	2.41	0.46
3:N:506:GLY:C	3:N:507:ASN:HD22	2.24	0.46
3:N:601:ARG:HH12	3:N:606:ILE:HA	1.78	0.46
3:N:671:LYS:HD2	3:N:675:ARG:NH2	2.31	0.46
3:N:688:TRP:HA	3:N:688:TRP:CE3	2.51	0.46
3:N:806:PHE:O	3:N:806:PHE:CG	2.68	0.46
3:N:944:THR:HA	9:N:9416:HOH:O	2.16	0.46
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.97	0.46
3:N:1490:LYS:HB3	9:N:9829:HOH:O	2.16	0.46
1:A:111:ALA:HB3	1:A:124:ASN:O	2.16	0.46
1:A:157:GLY:HA3	9:C:2280:HOH:O	2.16	0.46
1:B:175:ARG:NH1	9:B:536:HOH:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.97	0.46
2:C:395:LYS:HE3	2:C:407:LYS:HE3	1.96	0.46
2:C:1095:LEU:CD1	3:D:607:LEU:HD13	2.46	0.46
2:C:1100:GLN:HB3	9:C:9265:HOH:O	2.16	0.46
3:D:83:SER:O	3:D:86:ARG:HB3	2.16	0.46
3:D:126:VAL:O	3:D:132:TYR:CD1	2.69	0.46
3:D:493:ARG:NH1	3:D:1390:LEU:H	2.13	0.46
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	1.97	0.46
1:L:90:LEU:HG	1:L:91:ASN:HD22	1.81	0.46
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.51	0.46
1:L:129:ILE:HA	9:L:3134:HOH:O	2.15	0.46
2:M:54:ILE:O	2:M:54:ILE:HG23	2.15	0.46
2:M:251:ASP:HB2	9:M:1553:HOH:O	2.16	0.46
2:M:545:ASN:CG	2:M:905:ILE:HD11	2.41	0.46
2:M:707:ARG:HH21	2:M:709:GLU:CB	2.28	0.46
2:M:724:ARG:HB2	2:M:740:GLU:HA	1.98	0.46
3:N:9:ARG:HA	3:N:1455:LYS:O	2.15	0.46
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.51	0.46
3:N:707:THR:HG22	9:N:9244:HOH:O	2.16	0.46
3:N:956:ILE:HG12	3:N:1039:CYS:HA	1.97	0.46
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.51	0.46
3:N:1173:LEU:HD23	3:N:1174:LEU:N	2.31	0.46
3:N:1406:ARG:HG3	3:N:1406:ARG:NH1	2.30	0.46
3:N:1465:ASN:HD21	3:N:1470:ARG:NH1	2.14	0.46
1:A:14:ARG:NH1	1:A:24:VAL:HG23	2.31	0.45
1:A:216:GLU:HG3	9:A:462:HOH:O	2.16	0.45
1:B:27:PRO:C	1:B:28:LEU:HD23	2.40	0.45
2:C:432:ARG:H	2:C:432:ARG:HG2	1.48	0.45
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.50	0.45
2:C:485:TYR:HE2	9:C:2046:HOH:O	1.99	0.45
2:C:577:PRO:HA	2:C:671:ASN:OD1	2.17	0.45
2:C:701:THR:HA	2:C:831:ARG:O	2.14	0.45
3:D:3:LYS:HD3	3:D:3:LYS:N	2.31	0.45
3:D:107:ASP:O	3:D:108:VAL:C	2.59	0.45
3:D:558:LEU:HD13	5:F:145:PRO:HB3	1.98	0.45
3:D:668:PRO:HG2	9:F:682:HOH:O	2.16	0.45
3:D:1087:ARG:HG2	3:D:1087:ARG:HH11	1.81	0.45
3:D:1114:THR:HG23	3:D:1114:THR:O	2.16	0.45
3:D:1196:THR:HG23	9:D:2094:HOH:O	2.15	0.45
5:F:208:SER:HB3	9:F:562:HOH:O	2.15	0.45
5:F:208:SER:HB2	5:F:211:ASP:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:359:SER:OG	5:F:360:LYS:HE3	2.17	0.45
1:K:91:ASN:HA	9:K:5415:HOH:O	2.15	0.45
1:K:219:ARG:HB2	1:K:219:ARG:HH11	1.82	0.45
1:K:219:ARG:HD3	9:K:1878:HOH:O	2.16	0.45
1:L:89:PHE:CD1	1:L:89:PHE:N	2.84	0.45
2:M:141:HIS:N	2:M:332:ARG:O	2.48	0.45
2:M:159:ILE:C	9:M:1212:HOH:O	2.59	0.45
2:M:287:GLY:O	2:M:288:ARG:C	2.60	0.45
2:M:595:LEU:HD12	9:M:1510:HOH:O	2.15	0.45
2:M:690:ILE:HG23	2:M:852:ILE:HG13	1.98	0.45
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.98	0.45
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.51	0.45
3:N:411:THR:HG21	9:N:9383:HOH:O	2.16	0.45
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.16	0.45
3:N:799:LYS:HA	9:N:9285:HOH:O	2.15	0.45
3:N:948:THR:O	3:N:1019:PRO:HG2	2.16	0.45
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	2.16	0.45
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.97	0.45
5:P:358:LEU:O	5:P:367:MET:HE1	2.16	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD22	1.98	0.45
1:B:30:ARG:NH2	2:C:854:PRO:HG3	2.29	0.45
1:B:133:GLU:OE1	1:B:134:GLU:HG2	2.16	0.45
2:C:189:ARG:HA	9:C:9211:HOH:O	2.17	0.45
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.45
2:C:489:THR:HG22	9:C:2165:HOH:O	2.16	0.45
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.17	0.45
2:C:1001:VAL:HG22	9:C:9943:HOH:O	2.17	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.98	0.45
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.45	0.45
3:D:87:ARG:HG3	3:D:88:TYR:CD2	2.51	0.45
3:D:396:VAL:HG23	9:D:9631:HOH:O	2.16	0.45
3:D:1495:ILE:HG12	4:E:80:VAL:CG1	2.46	0.45
5:F:238:TYR:O	5:F:242:TRP:HD1	2.00	0.45
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.46	0.45
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.51	0.45
2:M:318:PRO:HD3	9:M:1256:HOH:O	2.15	0.45
2:M:440:PRO:HD2	2:M:540:PHE:HD2	1.80	0.45
2:M:775:ARG:HA	2:M:775:ARG:HD2	1.77	0.45
3:N:18:ILE:HD13	3:N:21:TRP:CZ3	2.51	0.45
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.97	0.45
3:N:141:ILE:HD13	3:N:450:TYR:CB	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.46	0.45
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.44	0.45
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.16	0.45
3:N:1137:ARG:HH21	3:N:1172:HIS:CE1	2.33	0.45
3:N:1211:MET:HG3	3:N:1212:ALA:N	2.32	0.45
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.97	0.45
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.15	0.45
4:O:4:PRO:HB3	9:O:2119:HOH:O	2.15	0.45
1:A:57:TYR:CE2	1:A:59:GLU:HG2	2.52	0.45
1:A:211:LEU:O	1:A:214:ALA:HB3	2.16	0.45
1:B:110:LYS:NZ	1:B:112:ARG:HD2	2.31	0.45
2:C:25:SER:CB	2:C:335:THR:HB	2.46	0.45
2:C:182:VAL:HG12	2:C:193:LEU:HD13	1.98	0.45
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.98	0.45
2:C:605:LYS:HE2	2:C:610:ARG:HH12	1.82	0.45
2:C:750:LYS:HG3	2:C:751:PRO:HD2	1.97	0.45
3:D:436:GLU:HG3	9:D:9955:HOH:O	2.15	0.45
3:D:510:GLU:CD	3:D:510:GLU:N	2.73	0.45
3:D:844:ALA:O	3:D:867:ARG:HD2	2.17	0.45
3:D:1094:LEU:HG	3:D:1230:GLY:HA2	1.97	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.32	0.45
3:D:1483:PHE:HB3	9:D:9789:HOH:O	2.16	0.45
1:L:92:PRO:HD3	9:L:1481:HOH:O	2.15	0.45
1:L:187:GLY:HA2	9:N:9715:HOH:O	2.16	0.45
9:L:6051:HOH:O	2:M:979:THR:HG22	2.17	0.45
2:M:64:LEU:HD12	2:M:65:VAL:N	2.31	0.45
2:M:275:TYR:OH	2:M:487:THR:HG21	2.16	0.45
2:M:586:ARG:HG2	9:M:2184:HOH:O	2.15	0.45
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.79	0.45
2:M:1111:ILE:H	2:M:1111:ILE:CD1	2.19	0.45
3:N:213:VAL:HG22	3:N:214:GLU:N	2.29	0.45
3:N:601:ARG:HG2	3:N:606:ILE:HD13	1.98	0.45
3:N:702:LEU:HG	3:N:745:MET:HE2	1.98	0.45
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.16	0.45
3:N:1293:PHE:CZ	3:N:1302:GLU:HG3	2.52	0.45
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.47	0.45
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.97	0.45
1:B:132:LEU:HD22	1:B:138:LEU:HD22	1.98	0.45
2:C:352:ALA:C	2:C:355:VAL:HG12	2.41	0.45
2:C:435:TYR:C	2:C:437:ARG:N	2.74	0.45
2:C:626:ARG:NH2	9:C:9247:HOH:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:953:VAL:HG11	2:C:966:LEU:HD22	1.98	0.45
3:D:23:TYR:CZ	3:D:89:ARG:HG2	2.51	0.45
3:D:126:VAL:O	3:D:132:TYR:HD1	2.00	0.45
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.47	0.45
3:D:783:ARG:NH1	3:D:783:ARG:HG2	2.31	0.45
3:D:850:LEU:O	3:D:853:VAL:HB	2.16	0.45
4:E:86:GLN:HB2	9:E:175:HOH:O	2.15	0.45
5:F:273:ARG:O	5:F:276:ARG:HB2	2.17	0.45
1:K:47:SER:HB3	1:K:217:ILE:HD13	1.97	0.45
1:K:102:LYS:HD2	1:K:139:ASN:ND2	2.31	0.45
2:M:61:LYS:HG2	9:M:2301:HOH:O	2.16	0.45
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.98	0.45
2:M:76:PRO:HD2	9:M:1533:HOH:O	2.17	0.45
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.99	0.45
2:M:320:HIS:N	2:M:320:HIS:CD2	2.84	0.45
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.30	0.45
2:M:633:GLN:CD	2:M:633:GLN:N	2.75	0.45
2:M:690:ILE:CD1	2:M:833:LEU:HD23	2.47	0.45
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.81	0.45
3:N:428:LYS:HG2	3:N:451:ASP:OD1	2.17	0.45
3:N:507:ASN:HA	9:N:9317:HOH:O	2.16	0.45
3:N:545:ARG:HB3	3:N:545:ARG:HH11	1.81	0.45
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.98	0.45
3:N:704:ARG:HD2	3:N:705:ALA:H	1.81	0.45
3:N:1433:SER:HB2	9:N:9765:HOH:O	2.15	0.45
3:N:1495:ILE:HA	4:O:88:GLU:OE1	2.17	0.45
5:P:94:LEU:HD22	5:P:97:GLU:HG2	1.98	0.45
5:P:122:LEU:N	9:P:756:HOH:O	2.38	0.45
5:P:160:ASP:O	5:P:164:LYS:HG3	2.16	0.45
2:C:65:VAL:O	2:C:101:ILE:HG12	2.15	0.45
2:C:253:ALA:O	2:C:256:TYR:HB2	2.16	0.45
2:C:640:ARG:HB2	2:C:642:ARG:NH2	2.27	0.45
2:C:841:ASN:HD22	2:C:841:ASN:N	2.14	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	1.99	0.45
3:D:72:VAL:HG22	3:D:73:CYS:N	2.32	0.45
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.45
3:D:684:LYS:HD3	3:D:686:GLU:CD	2.42	0.45
4:E:59:ASN:HD21	4:E:61:GLU:CD	2.24	0.45
1:K:156:HIS:CD2	1:K:157:GLY:N	2.85	0.45
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.98	0.45
1:L:90:LEU:HD23	9:L:3633:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:208:LEU:HB2	9:L:1470:HOH:O	2.17	0.45
2:M:551:GLU:HB3	2:M:906:PHE:CD2	2.45	0.45
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.99	0.45
2:M:797:GLY:HA2	9:M:1180:HOH:O	2.16	0.45
3:N:37:LEU:HD11	3:N:529:GLN:HE21	1.82	0.45
3:N:187:LYS:CE	3:N:213:VAL:HG12	2.33	0.45
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.32	0.45
3:N:770:LEU:HD22	3:N:777:PRO:HA	1.97	0.45
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.98	0.45
3:N:794:GLN:HG2	3:N:905:PRO:CG	2.47	0.45
3:N:880:ILE:O	3:N:883:ALA:HB3	2.17	0.45
4:O:47:LYS:HB2	9:O:3286:HOH:O	2.16	0.45
4:O:58:PRO:HB2	9:O:3494:HOH:O	2.16	0.45
5:P:369:LEU:O	5:P:373:LYS:HB2	2.17	0.45
1:A:89:PHE:HB2	1:A:94:LEU:HD13	1.97	0.45
2:C:269:LEU:HD11	9:C:9442:HOH:O	2.15	0.45
2:C:284:ARG:HG2	2:C:285:LEU:H	1.81	0.45
2:C:440:PRO:HG2	2:C:441:VAL:HG23	1.99	0.45
2:C:509:ALA:HB2	9:C:9210:HOH:O	2.16	0.45
3:D:23:TYR:HB2	3:D:49:ILE:O	2.16	0.45
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.98	0.45
3:D:796:ARG:CG	3:D:828:LYS:HD2	2.39	0.45
3:D:853:VAL:HA	3:D:858:VAL:O	2.17	0.45
3:D:882:PHE:O	3:D:886:VAL:HG23	2.16	0.45
3:D:1187:PRO:HG3	9:D:9184:HOH:O	2.17	0.45
3:D:1259:VAL:O	3:D:1263:PHE:HD1	2.00	0.45
3:D:1271:LYS:HG2	9:D:2058:HOH:O	2.15	0.45
3:D:1397:LYS:HZ3	3:D:1432:LYS:HB3	1.81	0.45
4:E:84:ARG:HG3	4:E:84:ARG:O	2.16	0.45
1:K:46:SER:HB3	2:M:856:GLU:CG	2.46	0.45
1:K:66:SER:O	1:K:75:VAL:HG23	2.16	0.45
1:L:73:GLU:OE1	1:L:130:ALA:HA	2.16	0.45
2:M:31:GLN:HG2	2:M:34:VAL:CG2	2.44	0.45
2:M:244:PRO:CD	2:M:245:GLY:H	2.29	0.45
2:M:358:ARG:HB3	2:M:371:LYS:O	2.17	0.45
2:M:430:VAL:HG13	2:M:430:VAL:O	2.17	0.45
2:M:742:VAL:HG12	9:M:2260:HOH:O	2.17	0.45
2:M:791:ARG:HB3	2:M:791:ARG:CZ	2.46	0.45
2:M:918:LEU:HD23	2:M:967:PHE:O	2.16	0.45
2:M:1044:GLY:HA3	4:O:17:TYR:CD1	2.52	0.45
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:161:LEU:CD1	3:N:452:ILE:HD13	2.47	0.45
3:N:431:VAL:HA	9:N:2074:HOH:O	2.16	0.45
3:N:491:LYS:HB2	9:N:2260:HOH:O	2.16	0.45
3:N:882:PHE:O	3:N:886:VAL:HG23	2.16	0.45
3:N:1140:ILE:HG21	3:N:1175:ILE:HD11	1.97	0.45
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.98	0.45
3:N:1299:PHE:HB2	9:N:9478:HOH:O	2.15	0.45
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	1.97	0.45
3:N:1390:LEU:HD22	9:N:9252:HOH:O	2.17	0.45
1:B:89:PHE:HD1	1:B:120:VAL:HG13	1.81	0.45
2:C:118:ILE:HG22	2:C:382:ILE:HG21	1.99	0.45
2:C:630:ARG:HH22	2:C:707:ARG:CA	2.29	0.45
2:C:798:GLY:HA3	2:C:828:ALA:O	2.17	0.45
2:C:815:LEU:HA	9:C:9978:HOH:O	2.16	0.45
3:D:2:LYS:HB3	3:D:3:LYS:HD3	1.98	0.45
3:D:171:LEU:HB2	3:D:390:PRO:CA	2.45	0.45
3:D:215:TYR:HD1	9:D:9423:HOH:O	2.00	0.45
3:D:493:ARG:HH11	3:D:1390:LEU:HB2	1.82	0.45
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.17	0.45
3:D:884:ARG:HB2	9:D:2325:HOH:O	2.16	0.45
5:F:200:LYS:HD2	5:F:209:PHE:HZ	1.79	0.45
5:F:306:GLU:O	5:F:310:ILE:HG13	2.17	0.45
1:L:222:LEU:O	1:L:225:PHE:HD1	2.00	0.45
2:M:254:VAL:HG11	9:M:1962:HOH:O	2.17	0.45
2:M:571:LEU:CD2	2:M:669:GLY:HA2	2.47	0.45
2:M:602:GLU:HA	2:M:647:GLN:O	2.17	0.45
2:M:783:ARG:HE	2:M:785:VAL:HG11	1.82	0.45
2:M:791:ARG:HH21	3:N:678:GLU:CD	2.25	0.45
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.54	0.45
3:N:18:ILE:HG21	3:N:516:ALA:O	2.17	0.45
3:N:195:VAL:HB	3:N:205:TYR:HD2	1.82	0.45
3:N:216:VAL:HA	3:N:389:GLU:OE2	2.16	0.45
3:N:571:LYS:HB2	3:N:571:LYS:HZ2	1.80	0.45
3:N:776:GLU:OE1	3:N:912:LYS:HE2	2.17	0.45
5:P:303:ARG:HB3	9:P:543:HOH:O	2.17	0.45
5:P:421:PHE:C	5:P:423:ASP:H	2.24	0.45
1:A:1:MET:O	1:A:6:LEU:HB2	2.16	0.45
1:A:26:GLU:CG	1:A:194:LYS:HD3	2.47	0.45
1:A:46:SER:HB3	2:C:856:GLU:CD	2.42	0.45
1:A:100:LEU:HD21	1:A:141:GLU:HG2	1.97	0.45
1:B:206:THR:HG22	1:B:209:GLU:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.52	0.45
2:C:50:GLU:OE2	2:C:345:ARG:HD3	2.16	0.45
2:C:141:HIS:HB3	2:C:418:LEU:HG	1.97	0.45
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.99	0.45
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.47	0.45
2:C:611:ILE:HG22	2:C:613:VAL:HG13	1.99	0.45
2:C:626:ARG:CB	2:C:639:GLN:HE21	2.30	0.45
2:C:732:ALA:HB3	9:C:9249:HOH:O	2.17	0.45
2:C:1008:ARG:NH2	2:C:1012:PRO:HD2	2.32	0.45
3:D:23:TYR:O	3:D:49:ILE:HG23	2.17	0.45
3:D:616:GLN:NE2	3:D:619:LEU:HB3	2.32	0.45
3:D:739:ASP:O	3:D:743:ASP:OD1	2.35	0.45
3:D:1183:ILE:N	3:D:1183:ILE:HD12	2.31	0.45
3:D:1434:TRP:CZ3	3:D:1455:LYS:HB3	2.52	0.45
1:K:132:LEU:HD12	1:K:132:LEU:N	2.32	0.45
2:M:17:PRO:HB2	9:M:1925:HOH:O	2.16	0.45
2:M:143:SER:OG	2:M:276:LYS:HE2	2.16	0.45
2:M:392:SER:C	2:M:393:GLN:HG3	2.41	0.45
2:M:402:SER:HB2	2:M:566:THR:HA	1.98	0.45
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.98	0.45
2:M:923:GLU:HA	2:M:923:GLU:OE2	2.16	0.45
2:M:928:LYS:HD2	9:M:2244:HOH:O	2.16	0.45
2:M:1096:ALA:HB1	3:N:13:ALA:HB3	1.98	0.45
3:N:563:PRO:HG2	3:N:566:ILE:HB	1.99	0.45
3:N:601:ARG:HG2	3:N:606:ILE:CD1	2.47	0.45
3:N:671:LYS:NZ	3:N:675:ARG:NE	2.60	0.45
3:N:768:ASN:N	3:N:768:ASN:ND2	2.65	0.45
3:N:768:ASN:N	3:N:768:ASN:HD22	2.15	0.45
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.99	0.45
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.42	0.45
1:B:46:SER:O	1:B:148:VAL:HB	2.16	0.45
1:B:124:ASN:OD1	1:B:127:LEU:HD13	2.17	0.45
2:C:71:TYR:H	2:C:71:TYR:HD2	1.64	0.45
2:C:222:MET:HE3	9:C:2066:HOH:O	2.17	0.45
2:C:357:GLU:O	2:C:360:LEU:HG	2.17	0.45
2:C:402:SER:OG	2:C:566:THR:HG22	2.16	0.45
2:C:681:GLY:O	3:D:633:VAL:HG21	2.16	0.45
2:C:1056:LYS:NZ	3:D:749:VAL:O	2.48	0.45
3:D:216:VAL:HG12	9:D:9632:HOH:O	2.17	0.45
3:D:473:LEU:HD21	3:D:495:ARG:HH21	1.78	0.45
3:D:662:GLU:HB3	9:D:9957:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:789:LEU:HD23	3:D:789:LEU:HA	1.77	0.45
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.47	0.45
3:D:1284:GLU:HG2	9:D:9285:HOH:O	2.17	0.45
3:D:1392:GLY:HA3	9:D:9829:HOH:O	2.16	0.45
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.47	0.45
1:K:29:GLU:HB3	1:K:30:ARG:H	1.56	0.45
1:K:72:LYS:HZ2	2:M:644:VAL:HG12	1.81	0.45
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.98	0.45
1:L:173:PRO:O	1:L:201:THR:HG23	2.16	0.45
1:L:186:LEU:HD11	9:L:2277:HOH:O	2.16	0.45
2:M:253:ALA:O	2:M:256:TYR:HB2	2.17	0.45
2:M:804:VAL:HG21	9:M:1805:HOH:O	2.17	0.45
2:M:998:TYR:OH	2:M:1000:MET:HA	2.16	0.45
3:N:643:GLY:HA3	3:N:727:GLN:HG3	1.99	0.45
3:N:820:GLU:CG	3:N:836:VAL:HG11	2.46	0.45
3:N:833:GLU:N	3:N:833:GLU:CD	2.74	0.45
3:N:950:GLY:C	3:N:953:ASP:H	2.22	0.45
3:N:1278:ASP:OD1	3:N:1278:ASP:N	2.49	0.45
5:P:107:GLU:HG3	9:P:557:HOH:O	2.15	0.45
1:A:65:PHE:CD1	2:C:828:ALA:HB3	2.52	0.45
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.98	0.45
2:C:64:LEU:CD1	2:C:100:LEU:HD13	2.47	0.45
2:C:189:ARG:NH1	9:C:9636:HOH:O	2.49	0.45
2:C:553:ASP:OD2	2:C:883:GLY:N	2.42	0.45
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.17	0.45
2:C:851:LYS:HD2	9:C:2174:HOH:O	2.17	0.45
9:C:9290:HOH:O	3:D:621:LYS:HE3	2.16	0.45
3:D:6:ARG:HD3	3:D:7:LYS:HZ3	1.82	0.45
3:D:74:GLU:CD	3:D:75:ARG:HH12	2.25	0.45
3:D:666:ILE:H	3:D:666:ILE:CD1	2.25	0.45
3:D:813:LEU:O	3:D:817:GLU:HB2	2.17	0.45
3:D:893:GLU:O	3:D:896:ALA:HB3	2.17	0.45
3:D:1065:LEU:C	3:D:1065:LEU:HD12	2.42	0.45
3:D:1147:ARG:HH22	3:D:1369:GLU:CD	2.25	0.45
3:D:1209:LEU:HB3	3:D:1211:MET:HG2	1.98	0.45
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.47	0.45
5:F:403:LYS:HE3	9:F:568:HOH:O	2.16	0.45
1:L:141:GLU:HB2	9:L:3233:HOH:O	2.17	0.45
2:M:449:ILE:O	2:M:451:LEU:HG	2.17	0.45
2:M:770:GLU:HG2	3:N:65:ARG:HH12	1.80	0.45
2:M:806:LEU:HB2	2:M:822:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:882:LEU:HD23	3:N:951:ILE:HG12	1.98	0.45
2:M:1015:LEU:HD22	3:N:528:VAL:HG21	1.99	0.45
2:M:1106:ASP:HB3	9:M:1151:HOH:O	2.17	0.45
3:N:54:LYS:CG	3:N:57:GLU:HB3	2.43	0.45
3:N:74:GLU:CD	3:N:74:GLU:H	2.25	0.45
3:N:90:MET:HE3	3:N:521:PRO:HD3	1.98	0.45
3:N:122:GLU:O	3:N:126:VAL:HG23	2.16	0.45
3:N:393:ILE:HD13	9:N:2314:HOH:O	2.16	0.45
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.99	0.45
3:N:481:MET:SD	3:N:1388:ARG:NE	2.90	0.45
3:N:537:THR:HG23	9:N:9511:HOH:O	2.15	0.45
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.45	0.45
3:N:949:ILE:HD11	3:N:1023:MET:HE2	1.98	0.45
3:N:962:GLN:HB3	9:N:2175:HOH:O	2.17	0.45
3:N:1047:LYS:NZ	3:N:1053:PHE:HA	2.32	0.45
3:N:1428:ALA:O	3:N:1431:THR:HG23	2.17	0.45
5:P:74:LYS:HG3	9:P:611:HOH:O	2.16	0.45
5:P:172:ARG:O	5:P:176:ILE:HG13	2.17	0.45
5:P:260:ILE:HG23	5:P:264:MET:CB	2.44	0.45
5:P:418:LEU:HD11	9:P:479:HOH:O	2.16	0.45
2:C:64:LEU:HB2	2:C:359:MET:SD	2.57	0.44
2:C:102:HIS:HB2	2:C:106:GLY:O	2.17	0.44
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.47	0.44
2:C:258:TYR:O	2:C:290:LEU:HG	2.17	0.44
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.82	0.44
2:C:398:THR:HA	2:C:633:GLN:HG3	1.99	0.44
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.41	0.44
3:D:157:GLU:HA	3:D:160:GLU:OE1	2.16	0.44
3:D:551:ASN:O	3:D:554:LEU:HB3	2.17	0.44
3:D:776:GLU:HG3	9:D:9670:HOH:O	2.17	0.44
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.99	0.44
3:D:1168:MET:HE1	3:D:1171:VAL:HB	1.98	0.44
4:E:58:PRO:HD2	9:E:113:HOH:O	2.17	0.44
4:E:59:ASN:HD22	4:E:60:ALA:N	2.15	0.44
4:E:66:LYS:HB2	4:E:66:LYS:NZ	2.32	0.44
5:F:252:ALA:HB1	5:F:265:VAL:HG21	1.98	0.44
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.52	0.44
5:F:313:GLU:HB3	9:F:541:HOH:O	2.16	0.44
1:K:51:THR:HA	1:K:145:ASP:O	2.17	0.44
1:K:123:MET:O	1:K:125:PRO:HD3	2.18	0.44
1:L:175:ARG:O	3:N:851:LEU:CD2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:73:LEU:HB3	2:M:94:LEU:HD13	1.99	0.44
2:M:96:ALA:O	2:M:98:LEU:HD12	2.16	0.44
2:M:877:PRO:HB3	3:N:1020:LEU:HD13	1.99	0.44
3:N:137:PRO:HD2	3:N:453:ASP:CG	2.42	0.44
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.99	0.44
3:N:493:ARG:HH21	3:N:1388:ARG:HB3	1.81	0.44
3:N:638:LYS:HD3	9:N:9367:HOH:O	2.17	0.44
3:N:647:ARG:NH1	3:N:680:GLN:HG3	2.33	0.44
3:N:659:LYS:O	3:N:659:LYS:HD3	2.17	0.44
3:N:924:MET:O	3:N:927:THR:HB	2.17	0.44
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.17	0.44
3:N:1211:MET:HE3	3:N:1213:ARG:HD2	1.98	0.44
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.16	0.44
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.98	0.44
5:P:277:GLN:HA	9:P:763:HOH:O	2.16	0.44
5:P:401:GLU:OE1	5:P:405:LEU:HD22	2.16	0.44
1:A:62:LEU:HD12	1:A:62:LEU:N	2.31	0.44
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.99	0.44
2:C:185:LYS:HG2	2:C:190:LYS:CG	2.47	0.44
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.99	0.44
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.48	0.44
2:C:298:PHE:HD1	9:C:2292:HOH:O	2.00	0.44
2:C:394:PHE:HA	9:C:9837:HOH:O	2.16	0.44
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.53	0.44
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.53	0.44
2:C:971:LYS:HE2	9:D:2072:HOH:O	2.16	0.44
2:C:1054:THR:CG2	2:C:1082:PRO:HG3	2.48	0.44
2:C:1114:GLY:N	2:C:1115:LEU:HD12	2.23	0.44
3:D:82:LYS:HD2	9:D:9518:HOH:O	2.17	0.44
3:D:591:VAL:HG11	3:D:597:ASP:HA	1.99	0.44
3:D:843:PHE:CZ	3:D:864:VAL:HG11	2.53	0.44
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.52	0.44
3:D:1005:GLN:HB3	9:D:9469:HOH:O	2.16	0.44
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.29	0.44
3:D:1107:VAL:O	3:D:1218:GLY:N	2.48	0.44
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.47	0.44
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.47	0.44
5:F:328:PHE:HD2	5:F:328:PHE:HA	1.73	0.44
5:F:369:LEU:O	5:F:373:LYS:HB2	2.17	0.44
2:M:52:PHE:O	2:M:54:ILE:N	2.50	0.44
2:M:69:LEU:HD21	2:M:99:GLN:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.47	0.44
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.16	0.44
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.32	0.44
2:M:1017:THR:HG1	2:M:1019:GLN:HG2	1.82	0.44
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.32	0.44
3:N:107:ASP:O	3:N:108:VAL:C	2.60	0.44
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.17	0.44
3:N:1408:ILE:HB	9:N:2499:HOH:O	2.18	0.44
5:P:321:ILE:HG12	5:P:327:SER:O	2.17	0.44
5:P:350:LEU:HG	5:P:354:LEU:HD11	1.99	0.44
1:A:51:THR:HA	1:A:145:ASP:O	2.17	0.44
1:B:99:LEU:HA	9:B:365:HOH:O	2.16	0.44
1:B:194:LYS:HD3	9:B:404:HOH:O	2.17	0.44
1:B:219:ARG:O	1:B:223:THR:HG23	2.18	0.44
2:C:205:GLU:O	2:C:209:ARG:HD2	2.17	0.44
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.31	0.44
2:C:1014:SER:OG	5:F:331:ASP:HA	2.17	0.44
2:C:1054:THR:HB	9:C:9412:HOH:O	2.17	0.44
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.53	0.44
3:D:95:LEU:HD11	3:D:517:VAL:CG2	2.48	0.44
3:D:475:LYS:O	3:D:479:GLU:HG2	2.16	0.44
3:D:537:THR:N	5:F:317:LEU:HB2	2.32	0.44
3:D:543:LEU:HA	3:D:546:ARG:CG	2.42	0.44
3:D:945:SER:OG	3:D:947:ILE:HG23	2.18	0.44
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.48	0.44
3:D:1196:THR:N	9:D:9138:HOH:O	2.42	0.44
3:D:1485:GLN:O	4:E:75:PHE:HA	2.17	0.44
3:D:1492:LEU:O	3:D:1492:LEU:HD13	2.17	0.44
3:D:1496:GLU:HA	3:D:1499:ARG:CG	2.46	0.44
5:F:358:LEU:CD1	5:F:370:LYS:HG3	2.45	0.44
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.80	0.44
2:M:84:ARG:HD3	9:M:1176:HOH:O	2.17	0.44
2:M:513:VAL:HB	9:M:1626:HOH:O	2.16	0.44
2:M:551:GLU:HG3	2:M:552:HIS:CD2	2.51	0.44
2:M:747:ALA:O	2:M:799:ILE:HA	2.17	0.44
2:M:854:PRO:C	2:M:856:GLU:N	2.73	0.44
2:M:950:LEU:HD22	9:M:1413:HOH:O	2.16	0.44
3:N:619:LEU:HD23	9:N:9219:HOH:O	2.15	0.44
3:N:827:ILE:HG23	3:N:837:GLY:HA2	1.99	0.44
3:N:933:ALA:O	3:N:937:TYR:HD1	2.00	0.44
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:86:LYS:HG2	2:C:813:VAL:HG12	1.98	0.44
2:C:525:SER:O	2:C:529:VAL:HG23	2.17	0.44
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.18	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.51	0.44
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.38	0.44
2:C:724:ARG:NH2	2:C:734:LEU:HB3	2.33	0.44
2:C:914:ILE:HD12	2:C:914:ILE:HA	1.72	0.44
2:C:960:GLU:HG2	9:C:9189:HOH:O	2.18	0.44
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.48	0.44
3:D:209:ARG:HB2	3:D:395:VAL:O	2.17	0.44
3:D:397:LYS:HZ3	3:D:399:ARG:HH21	1.66	0.44
3:D:404:GLU:CD	3:D:414:ARG:HD2	2.42	0.44
3:D:781:PRO:HB2	3:D:911:LEU:HD23	2.00	0.44
3:D:1112:CYS:CB	9:D:9138:HOH:O	2.64	0.44
3:D:1312:LEU:HD12	3:D:1326:THR:O	2.18	0.44
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.33	0.44
3:D:1346:ARG:NH2	9:D:9256:HOH:O	2.50	0.44
3:D:1426:LYS:HA	3:D:1429:LEU:HB3	2.00	0.44
1:K:209:GLU:O	1:K:213:GLN:HG3	2.18	0.44
2:M:375:SER:HA	9:M:1563:HOH:O	2.17	0.44
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.52	0.44
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.16	0.44
2:M:619:ARG:HG2	9:M:1285:HOH:O	2.16	0.44
3:N:150:ARG:NH1	9:N:9382:HOH:O	2.50	0.44
3:N:441:ARG:O	3:N:443:VAL:N	2.50	0.44
3:N:566:ILE:HG23	5:P:214:GLN:OE1	2.18	0.44
3:N:925:GLU:HG3	9:N:9237:HOH:O	2.17	0.44
3:N:1385:GLY:HA3	9:N:9637:HOH:O	2.17	0.44
4:O:40:LEU:HG	4:O:67:GLU:HG2	1.99	0.44
5:P:152:ASP:HA	9:P:474:HOH:O	2.17	0.44
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.47	0.44
1:A:11:PHE:CE2	1:A:13:VAL:HG22	2.52	0.44
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.46	0.44
2:C:146:VAL:CG2	2:C:162:ILE:HG23	2.48	0.44
2:C:1106:ASP:C	2:C:1107:ASN:ND2	2.75	0.44
3:D:10:ILE:CD1	3:D:1447:LEU:HG	2.48	0.44
3:D:62:LYS:HE2	3:D:75:ARG:NH1	2.32	0.44
3:D:393:ILE:HD12	3:D:393:ILE:N	2.30	0.44
3:D:724:GLN:HE21	3:D:725:SER:HA	1.83	0.44
3:D:798:GLU:HG3	9:D:9700:HOH:O	2.17	0.44
3:D:1145:TYR:HD2	3:D:1168:MET:SD	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.76	0.44
5:F:316:SER:O	5:F:317:LEU:C	2.61	0.44
5:F:328:PHE:O	5:F:330:GLY:N	2.51	0.44
1:K:9:PRO:HB3	1:K:25:LEU:CD2	2.47	0.44
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.52	0.44
1:K:164:ALA:HB3	9:K:7572:HOH:O	2.18	0.44
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.52	0.44
2:M:118:ILE:HD12	2:M:119:PRO:O	2.18	0.44
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.99	0.44
2:M:198:ARG:HD3	9:M:1364:HOH:O	2.17	0.44
2:M:425:PHE:HZ	9:N:9823:HOH:O	1.99	0.44
2:M:437:ARG:C	2:M:438:ILE:HD12	2.42	0.44
2:M:625:LEU:HD11	2:M:641:PRO:HG3	1.98	0.44
2:M:876:VAL:O	2:M:879:ARG:O	2.35	0.44
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.99	0.44
3:N:520:LEU:O	3:N:525:ARG:NH1	2.51	0.44
3:N:1141:GLU:HB3	3:N:1168:MET:HE1	2.00	0.44
3:N:1196:THR:HG22	9:N:9626:HOH:O	2.17	0.44
3:N:1432:LYS:HG2	9:N:2103:HOH:O	2.18	0.44
5:P:138:SER:HB2	5:P:140:ARG:HG2	2.00	0.44
5:P:171:LYS:HG3	5:P:175:HIS:CD2	2.53	0.44
5:P:172:ARG:HH21	5:P:173:TYR:HE1	1.66	0.44
5:P:264:MET:O	5:P:268:ILE:HG13	2.17	0.44
5:P:361:LEU:HD23	5:P:362:SER:N	2.33	0.44
1:A:19:GLU:O	1:A:200:TRP:HA	2.18	0.44
1:A:150:TYR:OH	2:C:832:LYS:HE3	2.16	0.44
1:A:212:ASN:ND2	9:A:416:HOH:O	2.51	0.44
1:B:182:GLU:HG2	1:B:194:LYS:HD2	1.98	0.44
1:B:211:LEU:O	1:B:215:VAL:HG13	2.18	0.44
2:C:158:TYR:HD1	9:C:9023:HOH:O	2.01	0.44
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.82	0.44
2:C:358:ARG:HA	2:C:361:MET:HB2	1.99	0.44
2:C:811:PRO:HD2	2:C:813:VAL:CG1	2.44	0.44
2:C:941:VAL:O	2:C:944:LEU:HB2	2.18	0.44
2:C:1003:ASP:O	2:C:1005:MET:N	2.51	0.44
2:C:1005:MET:HB3	3:D:629:SER:OG	2.17	0.44
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.18	0.44
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.52	0.44
3:D:646:LYS:HE2	3:D:722:GLU:OE2	2.18	0.44
3:D:703:ASN:O	3:D:745:MET:HG2	2.16	0.44
3:D:868:TYR:CB	3:D:873:LEU:HD11	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1292:VAL:O	3:D:1303:TYR:HB2	2.18	0.44
5:F:343:ASP:N	5:F:343:ASP:OD1	2.50	0.44
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.53	0.44
1:K:67:THR:HG22	2:M:627:ARG:HH21	1.83	0.44
1:K:67:THR:CG2	2:M:627:ARG:HH21	2.31	0.44
1:L:63:HIS:HD2	9:L:2066:HOH:O	2.00	0.44
1:L:133:GLU:N	9:L:4499:HOH:O	2.50	0.44
1:L:142:VAL:HG23	1:L:142:VAL:O	2.18	0.44
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.53	0.44
2:M:113:VAL:O	2:M:115:LEU:HG	2.16	0.44
2:M:139:GLN:CG	2:M:140:ILE:H	2.31	0.44
2:M:187:ASN:HB3	9:M:2211:HOH:O	2.18	0.44
2:M:397:GLU:N	2:M:633:GLN:OE1	2.50	0.44
2:M:611:ILE:HD11	2:M:641:PRO:HG3	2.00	0.44
3:N:129:PHE:CE2	3:N:587:ARG:HD3	2.52	0.44
3:N:563:PRO:O	3:N:567:ILE:HG13	2.18	0.44
3:N:789:LEU:HD22	3:N:882:PHE:HE1	1.82	0.44
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.18	0.44
5:P:364:ARG:HH12	5:P:392:VAL:CG2	2.25	0.44
5:P:371:LEU:HA	5:P:375:LEU:HB3	1.99	0.44
5:P:409:LYS:HD3	9:P:725:HOH:O	2.17	0.44
1:A:161:ARG:NH1	1:A:161:ARG:HB2	2.32	0.44
1:B:143:ARG:CD	1:B:158:ILE:HG21	2.48	0.44
1:B:156:HIS:CE1	1:B:158:ILE:HG12	2.52	0.44
1:B:206:THR:HG23	1:B:209:GLU:H	1.82	0.44
2:C:44:ILE:HD13	2:C:344:PHE:CG	2.52	0.44
2:C:81:ASP:HB3	9:C:2112:HOH:O	2.17	0.44
2:C:585:GLU:HG2	2:C:586:ARG:N	2.32	0.44
2:C:598:GLU:O	2:C:651:LYS:HG3	2.18	0.44
2:C:838:LYS:CG	2:C:997:LEU:HD12	2.46	0.44
2:C:876:VAL:CB	3:D:949:ILE:HG13	2.45	0.44
2:C:946:ARG:HD2	2:C:984:GLU:HB2	1.99	0.44
2:C:949:LYS:NZ	3:D:827:ILE:HD12	2.32	0.44
2:C:987:ILE:HD12	2:C:987:ILE:N	2.33	0.44
3:D:81:THR:HG22	3:D:82:LYS:N	2.33	0.44
3:D:153:LEU:HB3	9:D:2369:HOH:O	2.17	0.44
3:D:162:ARG:HE	3:D:434:ARG:NH2	2.15	0.44
3:D:191:LEU:HB3	3:D:195:VAL:HG21	2.00	0.44
3:D:202:VAL:HG22	9:D:9849:HOH:O	2.17	0.44
3:D:490:ALA:HB2	9:D:2277:HOH:O	2.17	0.44
3:D:592:THR:N	3:D:600:LEU:HD21	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.33	0.44
5:F:407:LYS:HD2	9:F:568:HOH:O	2.17	0.44
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.83	0.44
1:K:108:GLU:HG2	9:K:1619:HOH:O	2.18	0.44
1:L:105:GLY:O	1:L:132:LEU:HB3	2.17	0.44
1:L:176:ARG:HD3	3:N:884:ARG:HH12	1.80	0.44
1:L:185:ARG:HG3	1:L:190:THR:HG23	2.00	0.44
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.52	0.44
2:M:274:ARG:NH2	2:M:284:ARG:HG3	2.33	0.44
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.99	0.44
3:N:107:ASP:OD2	3:N:1445:HIS:HA	2.17	0.44
3:N:221:ALA:HB2	9:N:2086:HOH:O	2.16	0.44
3:N:546:ARG:HH12	3:N:550:ARG:CZ	2.31	0.44
3:N:630:VAL:CA	3:N:744:GLN:HG2	2.43	0.44
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.47	0.44
3:N:650:LEU:HD22	3:N:688:TRP:CH2	2.53	0.44
3:N:840:LYS:HB3	3:N:841:TYR:CD2	2.53	0.44
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.17	0.44
3:N:1114:THR:HG23	3:N:1114:THR:O	2.17	0.44
3:N:1129:THR:HA	9:N:9203:HOH:O	2.18	0.44
3:N:1130:ARG:NH1	9:N:9644:HOH:O	2.49	0.44
3:N:1397:LYS:HE3	9:N:2103:HOH:O	2.16	0.44
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.47	0.44
1:B:90:LEU:HB3	9:B:530:HOH:O	2.18	0.44
1:B:149:GLY:O	1:B:171:PHE:HB2	2.18	0.44
2:C:8:ARG:HD2	2:C:10:ARG:CZ	2.47	0.44
2:C:21:ILE:HD11	2:C:455:LEU:HD11	1.98	0.44
2:C:119:PRO:HD3	9:C:9544:HOH:O	2.18	0.44
2:C:207:LEU:HD22	2:C:221:LEU:HD22	2.00	0.44
2:C:471:TYR:HB3	9:C:9955:HOH:O	2.17	0.44
2:C:525:SER:OG	2:C:528:GLU:HG3	2.17	0.44
2:C:896:PHE:O	2:C:924:VAL:HG11	2.17	0.44
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.17	0.44
3:D:603:LEU:HA	3:D:606:ILE:CG1	2.48	0.44
3:D:657:LEU:O	3:D:661:MET:HG2	2.16	0.44
3:D:818:ARG:HD2	9:D:9655:HOH:O	2.17	0.44
3:D:953:ASP:O	3:D:955:VAL:HG23	2.17	0.44
3:D:1107:VAL:HG21	3:D:1215:VAL:HG11	2.00	0.44
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.99	0.44
5:F:366:ALA:CB	5:F:367:MET:HE2	2.36	0.44
5:F:403:LYS:HA	5:F:403:LYS:HZ3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:127:LEU:HD12	1:K:127:LEU:C	2.43	0.44
2:M:185:LYS:HB3	2:M:188:LYS:O	2.18	0.44
2:M:396:ASP:HB3	2:M:406:HIS:CD2	2.53	0.44
3:N:18:ILE:HA	3:N:21:TRP:CE3	2.53	0.44
3:N:187:LYS:HD3	3:N:187:LYS:HA	1.67	0.44
3:N:470:LEU:HD23	3:N:470:LEU:H	1.83	0.44
3:N:886:VAL:HG13	3:N:930:LEU:CD1	2.48	0.44
3:N:1026:SER:C	3:N:1028:ALA:N	2.76	0.44
3:N:1395:LEU:HD13	3:N:1399:ASP:OD2	2.18	0.44
4:O:61:GLU:H	4:O:61:GLU:HG3	1.56	0.44
5:P:192:LEU:O	5:P:196:VAL:HG23	2.18	0.44
5:P:361:LEU:HD13	5:P:366:ALA:HB2	2.00	0.44
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.47	0.44
1:B:110:LYS:HZ3	1:B:112:ARG:HD2	1.83	0.44
2:C:52:PHE:O	2:C:54:ILE:N	2.51	0.44
2:C:135:VAL:CG1	2:C:407:LYS:HA	2.47	0.44
2:C:173:ASP:O	2:C:184:MET:HA	2.17	0.44
2:C:188:LYS:HG2	9:C:9660:HOH:O	2.17	0.44
2:C:260:LEU:HD23	2:C:261:ILE:CG1	2.47	0.44
2:C:546:LEU:C	2:C:581:THR:HG21	2.43	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.53	0.44
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.99	0.44
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.31	0.44
2:C:720:GLU:HG2	2:C:760:SER:HB3	2.00	0.44
2:C:835:VAL:HA	2:C:849:VAL:HB	1.99	0.44
2:C:863:ASP:O	2:C:865:THR:N	2.51	0.44
2:C:1050:GLN:HG3	9:D:9424:HOH:O	2.18	0.44
2:C:1088:LEU:HD23	2:C:1088:LEU:C	2.43	0.44
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.48	0.44
3:D:670:VAL:HG22	9:D:9268:HOH:O	2.16	0.44
3:D:783:ARG:HD3	3:D:1029:ARG:HG3	2.00	0.44
3:D:796:ARG:O	3:D:828:LYS:HB2	2.17	0.44
3:D:797:LYS:N	3:D:797:LYS:HD2	2.33	0.44
3:D:884:ARG:HG3	9:D:2095:HOH:O	2.18	0.44
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.98	0.44
3:D:1236:LEU:CA	3:D:1359:GLN:HE22	2.28	0.44
3:D:1244:GLY:HA2	9:D:2269:HOH:O	2.18	0.44
3:D:1464:GLU:H	3:D:1464:GLU:HG2	1.60	0.44
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.18	0.44
5:F:179:GLU:O	5:F:182:ALA:HB3	2.17	0.44
5:F:398:ARG:HH11	5:F:398:ARG:HG3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:18:LEU:HD21	2:M:542:VAL:HG21	1.99	0.44
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.47	0.44
2:M:256:TYR:HB3	9:M:2098:HOH:O	2.17	0.44
2:M:324:ASP:O	2:M:327:HIS:HB2	2.18	0.44
2:M:410:ILE:N	2:M:453:THR:O	2.43	0.44
2:M:759:THR:HB	2:M:785:VAL:HG22	1.99	0.44
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.53	0.44
3:N:28:LYS:HZ1	3:N:552:ASN:HD22	1.66	0.44
3:N:161:LEU:HA	9:N:9501:HOH:O	2.17	0.44
3:N:195:VAL:HG22	9:N:9164:HOH:O	2.17	0.44
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.32	0.44
3:N:1128:VAL:O	3:N:1129:THR:C	2.60	0.44
3:N:1209:LEU:CD2	3:N:1211:MET:H	2.31	0.44
5:P:84:TYR:HA	5:P:87:GLU:OE2	2.17	0.44
5:P:315:VAL:HG12	5:P:316:SER:N	2.32	0.44
1:A:5:LYS:HA	1:A:5:LYS:HE3	2.00	0.43
1:B:207:PRO:HD2	9:B:588:HOH:O	2.18	0.43
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.00	0.43
2:C:548:PRO:HB2	2:C:549:PHE:H	1.68	0.43
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.99	0.43
2:C:694:LEU:HD21	2:C:868:ASP:OD2	2.18	0.43
2:C:820:ARG:HA	9:C:2038:HOH:O	2.17	0.43
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.99	0.43
2:C:885:ILE:HD12	3:D:949:ILE:HB	2.00	0.43
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.99	0.43
3:D:118:LEU:HB3	3:D:123:LEU:HD13	2.00	0.43
3:D:197:SER:C	9:D:2576:HOH:O	2.61	0.43
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.44	0.43
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.16	0.43
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.99	0.43
3:D:566:ILE:CG2	5:F:214:GLN:HE22	2.29	0.43
3:D:916:TYR:C	3:D:916:TYR:CD2	2.95	0.43
3:D:1183:ILE:HG21	9:D:9795:HOH:O	2.17	0.43
3:D:1432:LYS:CG	3:D:1433:SER:H	2.30	0.43
5:F:215:GLU:O	5:F:218:GLN:HB3	2.18	0.43
1:L:51:THR:HA	1:L:145:ASP:O	2.16	0.43
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.48	0.43
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
2:M:311:PHE:HB3	9:M:1584:HOH:O	2.17	0.43
2:M:448:ASN:HA	2:M:451:LEU:CD1	2.48	0.43
2:M:480:THR:HG22	2:M:482:GLU:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1079:PRO:HA	9:M:2082:HOH:O	2.16	0.43
3:N:34:TYR:OH	5:P:264:MET:HG3	2.18	0.43
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.51	0.43
3:N:443:VAL:CG1	3:N:445:ARG:HH21	2.30	0.43
3:N:565:ILE:CD1	5:P:189:GLU:HG2	2.48	0.43
3:N:972:LEU:HG	3:N:976:GLN:NE2	2.33	0.43
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	2.00	0.43
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.46	0.43
5:P:418:LEU:HB3	9:P:526:HOH:O	2.18	0.43
1:A:101:LEU:HA	9:A:375:HOH:O	2.19	0.43
2:C:348:LEU:HD23	9:C:9915:HOH:O	2.18	0.43
2:C:395:LYS:HD3	2:C:397:GLU:OE2	2.19	0.43
2:C:839:LEU:N	2:C:839:LEU:HD23	2.33	0.43
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.48	0.43
2:C:958:THR:HG21	9:C:9189:HOH:O	2.18	0.43
2:C:1060:ILE:CD1	2:C:1063:ARG:HH12	2.28	0.43
3:D:34:TYR:O	3:D:35:ARG:C	2.61	0.43
3:D:103:TRP:HE1	3:D:604:THR:CG2	2.30	0.43
3:D:484:PRO:HG3	9:D:9613:HOH:O	2.17	0.43
3:D:563:PRO:HG3	5:F:188:ILE:HG21	2.01	0.43
3:D:703:ASN:ND2	3:D:704:ARG:H	2.15	0.43
3:D:781:PRO:HB3	3:D:785:ILE:HB	1.99	0.43
3:D:790:TYR:CD1	3:D:1022:VAL:HG13	2.53	0.43
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.53	0.43
3:D:1161:GLU:H	3:D:1161:GLU:HG2	1.67	0.43
3:D:1468:LEU:O	3:D:1468:LEU:HD23	2.18	0.43
5:F:201:LYS:NZ	9:F:841:HOH:O	2.50	0.43
5:F:416:ARG:HG2	9:F:464:HOH:O	2.18	0.43
1:K:25:LEU:HD23	1:K:25:LEU:C	2.43	0.43
1:L:1:MET:HG3	1:L:2:LEU:N	2.32	0.43
1:L:51:THR:HG22	9:L:1365:HOH:O	2.18	0.43
1:L:80:LEU:CD1	3:N:842:VAL:HB	2.49	0.43
2:M:8:ARG:HD3	2:M:8:ARG:HA	1.76	0.43
2:M:289:THR:O	2:M:291:ALA:N	2.51	0.43
2:M:461:VAL:HG13	2:M:465:GLY:HA2	2.00	0.43
2:M:881:ASN:N	2:M:881:ASN:ND2	2.65	0.43
3:N:34:TYR:HE1	5:P:264:MET:HE2	1.81	0.43
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.47	0.43
3:N:543:LEU:CD1	3:N:581:LEU:HA	2.48	0.43
3:N:645:PRO:HG3	3:N:725:SER:O	2.18	0.43
3:N:769:LEU:HD12	3:N:769:LEU:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:975:GLU:HG3	9:N:9202:HOH:O	2.17	0.43
3:N:989:TYR:OH	3:N:1052:THR:HG23	2.17	0.43
3:N:1171:VAL:O	3:N:1171:VAL:HG12	2.17	0.43
3:N:1216:SER:HB3	4:O:16:LYS:H	1.81	0.43
4:O:47:LYS:N	4:O:54:LEU:HD22	2.33	0.43
1:B:80:LEU:HD23	3:D:867:ARG:HH12	1.83	0.43
2:C:6:PHE:CE2	2:C:913:GLU:HG2	2.53	0.43
2:C:31:GLN:HB3	2:C:31:GLN:HE21	1.64	0.43
2:C:413:LEU:HB3	9:C:9485:HOH:O	2.18	0.43
2:C:620:LEU:O	2:C:620:LEU:HD22	2.17	0.43
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.18	0.43
2:C:942:GLU:HG3	9:C:2219:HOH:O	2.19	0.43
2:C:1057:SER:HB2	3:D:622:ARG:O	2.18	0.43
3:D:62:LYS:HE2	3:D:75:ARG:CZ	2.47	0.43
3:D:428:LYS:HD2	9:D:2762:HOH:O	2.19	0.43
3:D:526:PRO:HG2	9:D:2043:HOH:O	2.18	0.43
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.82	0.43
3:D:829:VAL:O	3:D:835:SER:HB2	2.18	0.43
3:D:1087:ARG:CZ	3:D:1087:ARG:HB2	2.48	0.43
3:D:1254:GLN:HA	3:D:1254:GLN:OE1	2.17	0.43
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.33	0.43
4:E:87:LYS:HD2	9:E:124:HOH:O	2.18	0.43
5:F:153:PRO:CG	5:F:154:LYS:H	2.32	0.43
1:L:19:GLU:O	1:L:200:TRP:HA	2.18	0.43
2:M:21:ILE:HG23	2:M:335:THR:HG22	1.99	0.43
2:M:64:LEU:CD1	2:M:100:LEU:HD13	2.48	0.43
2:M:164:PRO:HD2	2:M:170:PRO:O	2.18	0.43
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.82	0.43
2:M:402:SER:HB2	2:M:566:THR:O	2.18	0.43
3:N:180:LYS:HB2	9:N:9411:HOH:O	2.18	0.43
3:N:894:LYS:HA	9:N:9184:HOH:O	2.17	0.43
3:N:1036:ARG:HE	3:N:1042:ARG:HA	1.84	0.43
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.32	0.43
3:N:1312:LEU:HD13	9:N:2318:HOH:O	2.18	0.43
3:N:1344:VAL:O	3:N:1348:LEU:HD23	2.19	0.43
3:N:1485:GLN:O	4:O:75:PHE:HA	2.19	0.43
5:P:280:GLN:OE1	5:P:281:GLU:HB2	2.18	0.43
2:C:57:GLU:HG3	2:C:58:ASP:OD2	2.18	0.43
2:C:521:PRO:HB2	3:D:1055:VAL:CG2	2.48	0.43
2:C:523:ILE:HG22	9:C:2065:HOH:O	2.17	0.43
2:C:572:ILE:HG21	2:C:703:ILE:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.84	0.43
2:C:609:ASN:CG	2:C:627:ARG:HH21	2.26	0.43
2:C:789:SER:HB2	9:C:9460:HOH:O	2.18	0.43
2:C:873:PRO:HG2	3:D:947:ILE:O	2.18	0.43
2:C:993:PHE:HE1	2:C:995:MET:SD	2.42	0.43
3:D:99:ALA:HB3	3:D:578:VAL:HG21	2.00	0.43
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.48	0.43
3:D:229:ALA:HB2	9:D:2743:HOH:O	2.18	0.43
3:D:520:LEU:O	3:D:525:ARG:NH1	2.52	0.43
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.49	0.43
3:D:994:GLN:HA	3:D:994:GLN:HE21	1.83	0.43
3:D:1153:VAL:HG22	9:D:9184:HOH:O	2.18	0.43
3:D:1267:ARG:HH21	3:D:1271:LYS:HD2	1.82	0.43
3:D:1330:ILE:HD12	3:D:1347:TYR:HE1	1.79	0.43
3:D:1369:GLU:O	3:D:1370:ILE:C	2.61	0.43
5:F:211:ASP:O	5:F:215:GLU:HG2	2.18	0.43
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.82	0.43
2:M:135:VAL:HG11	2:M:407:LYS:HA	2.00	0.43
2:M:163:ILE:HB	2:M:171:TRP:CZ3	2.53	0.43
2:M:672:VAL:HG23	2:M:868:ASP:CB	2.45	0.43
2:M:811:PRO:HA	9:M:1275:HOH:O	2.17	0.43
2:M:970:GLY:HA2	9:M:1479:HOH:O	2.17	0.43
3:N:73:CYS:HB2	9:N:9127:HOH:O	2.17	0.43
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.53	0.43
3:N:171:LEU:HD13	3:N:389:GLU:C	2.44	0.43
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.66	0.43
3:N:850:LEU:HD22	3:N:884:ARG:NH2	2.33	0.43
3:N:901:GLN:NE2	9:N:9586:HOH:O	2.51	0.43
3:N:1114:THR:HG23	3:N:1116:ASN:HD21	1.82	0.43
3:N:1161:GLU:HB2	9:N:2258:HOH:O	2.18	0.43
3:N:1302:GLU:OE2	3:N:1304:LYS:HG2	2.18	0.43
3:N:1333:HIS:HB3	9:N:9684:HOH:O	2.17	0.43
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.47	0.43
1:A:59:GLU:HB2	1:A:139:ASN:ND2	2.34	0.43
1:A:99:LEU:HD23	1:A:122:ILE:HD11	2.01	0.43
1:B:156:HIS:CE1	1:B:158:ILE:H	2.36	0.43
2:C:48:PHE:CD1	2:C:348:LEU:HD21	2.53	0.43
2:C:302:VAL:O	2:C:305:PRO:HD2	2.19	0.43
2:C:560:MET:O	2:C:564:MET:HB2	2.18	0.43
2:C:742:VAL:HB	9:C:9293:HOH:O	2.18	0.43
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:880:MET:HE3	2:C:880:MET:HB2	1.77	0.43
2:C:975:TYR:HA	2:C:982:PRO:HA	2.00	0.43
2:C:1059:ASP:CG	2:C:1062:GLY:HA3	2.43	0.43
3:D:233:LYS:HA	9:D:9728:HOH:O	2.18	0.43
3:D:704:ARG:HH12	3:D:738:ALA:HA	1.82	0.43
3:D:890:VAL:HG11	3:D:922:LEU:HD13	2.00	0.43
3:D:957:PRO:HB3	3:D:959:GLU:OE1	2.18	0.43
3:D:1093:TYR:HE1	3:D:1260:ILE:HD11	1.83	0.43
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.18	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.47	0.43
3:D:1462:LEU:HD22	3:D:1472:ILE:CG2	2.47	0.43
1:K:19:GLU:O	1:K:200:TRP:HA	2.18	0.43
1:K:19:GLU:HG3	1:K:201:THR:O	2.18	0.43
1:K:38:ASN:HB3	1:K:39:PRO:HD3	2.00	0.43
1:K:111:ALA:HB3	1:K:124:ASN:O	2.19	0.43
1:L:62:LEU:N	1:L:62:LEU:HD12	2.34	0.43
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.48	0.43
2:M:137:VAL:O	2:M:391:LEU:HD21	2.18	0.43
2:M:191:PHE:HB2	9:M:1708:HOH:O	2.19	0.43
2:M:200:LEU:H	2:M:200:LEU:HG	1.66	0.43
2:M:1039:ALA:HB2	3:N:707:THR:HG21	2.00	0.43
3:N:22:SER:OG	3:N:91:GLY:HA2	2.19	0.43
3:N:55:ASP:CA	3:N:82:LYS:HE2	2.48	0.43
3:N:105:VAL:CG2	3:N:128:TYR:HE2	2.23	0.43
3:N:214:GLU:HG3	3:N:390:PRO:HB2	2.01	0.43
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.48	0.43
3:N:1012:GLU:HG2	3:N:1013:GLU:HG2	2.00	0.43
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.34	0.43
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.25	0.43
4:O:54:LEU:HD12	4:O:58:PRO:HG2	1.99	0.43
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.48	0.43
5:P:215:GLU:OE1	5:P:215:GLU:HA	2.18	0.43
5:P:290:GLU:H	5:P:290:GLU:CD	2.26	0.43
5:P:309:LYS:HD3	5:P:309:LYS:HA	1.81	0.43
1:A:29:GLU:HB3	1:A:30:ARG:H	1.55	0.43
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.99	0.43
1:A:72:LYS:HE2	2:C:641:PRO:HB2	2.00	0.43
1:A:188:GLN:H	1:A:188:GLN:HG3	1.54	0.43
1:B:11:PHE:HA	9:B:327:HOH:O	2.19	0.43
2:C:170:PRO:HG2	2:C:258:TYR:CE2	2.54	0.43
2:C:269:LEU:HD23	9:C:9593:HOH:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:405:ARG:HH12	2:C:563:ASN:ND2	2.16	0.43
3:D:550:ARG:HH11	3:D:573:MET:HB3	1.82	0.43
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.48	0.43
3:D:930:LEU:O	3:D:934:LEU:HG	2.18	0.43
4:E:10:PHE:O	4:E:13:VAL:HG22	2.18	0.43
5:F:195:VAL:HG22	5:F:243:ILE:HD13	2.00	0.43
5:F:306:GLU:OE1	5:F:310:ILE:HD11	2.18	0.43
5:F:336:GLU:CD	5:F:336:GLU:N	2.77	0.43
5:F:339:PRO:HB3	5:F:343:ASP:HB2	2.01	0.43
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.53	0.43
1:L:68:ILE:HD12	1:L:68:ILE:H	1.84	0.43
1:L:88:ARG:HH12	1:L:90:LEU:HA	1.83	0.43
2:M:98:LEU:HG	9:M:2168:HOH:O	2.19	0.43
2:M:140:ILE:HD12	2:M:140:ILE:N	2.33	0.43
2:M:503:LEU:CD1	2:M:505:GLY:H	2.31	0.43
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.18	0.43
2:M:767:PRO:HG3	9:M:1541:HOH:O	2.18	0.43
2:M:826:TYR:N	2:M:826:TYR:CD1	2.86	0.43
2:M:878:SER:HA	3:N:1034:GLN:OE1	2.18	0.43
2:M:1097:LEU:C	9:M:1567:HOH:O	2.61	0.43
3:N:80:VAL:HG12	3:N:81:THR:O	2.18	0.43
3:N:411:THR:HG22	9:N:9158:HOH:O	2.19	0.43
3:N:553:ARG:HD2	3:N:570:GLU:CD	2.43	0.43
3:N:793:THR:O	3:N:879:ARG:HD3	2.19	0.43
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.54	0.43
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.18	0.43
3:N:1243:THR:CB	3:N:1253:THR:HB	2.48	0.43
3:N:1476:THR:C	3:N:1478:SER:H	2.26	0.43
5:P:174:LEU:HD11	9:P:633:HOH:O	2.17	0.43
5:P:264:MET:HE3	9:P:696:HOH:O	2.18	0.43
2:C:8:ARG:HD3	2:C:8:ARG:HA	1.92	0.43
2:C:259:GLY:HA3	9:C:9114:HOH:O	2.18	0.43
2:C:451:LEU:N	9:C:9147:HOH:O	2.49	0.43
2:C:575:GLN:C	2:C:667:ALA:HB1	2.43	0.43
2:C:577:PRO:HD2	2:C:580:MET:HG2	2.01	0.43
2:C:781:LYS:HA	9:C:9466:HOH:O	2.18	0.43
2:C:795:GLY:HA2	9:C:9958:HOH:O	2.19	0.43
3:D:162:ARG:O	3:D:434:ARG:HG3	2.18	0.43
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.83	0.43
3:D:715:ALA:O	3:D:764:LEU:HD12	2.18	0.43
3:D:868:TYR:CG	3:D:869:MET:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1237:THR:HG22	3:D:1238:MET:N	2.34	0.43
5:F:140:ARG:HH11	5:F:140:ARG:HG3	1.83	0.43
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.39	0.43
5:F:412:GLU:HG3	5:F:418:LEU:HD22	2.00	0.43
1:L:30:ARG:HA	9:L:6862:HOH:O	2.18	0.43
2:M:328:LEU:C	2:M:330:ASN:H	2.27	0.43
2:M:399:ASN:OD1	2:M:568:ALA:HB3	2.17	0.43
2:M:448:ASN:HA	2:M:451:LEU:HD12	2.00	0.43
2:M:1032:PHE:O	3:N:620:GLY:HA2	2.19	0.43
3:N:461:ILE:O	3:N:465:LEU:HB2	2.19	0.43
3:N:961:LYS:HG2	9:N:9370:HOH:O	2.17	0.43
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	2.01	0.43
3:N:1377:LYS:HG2	3:N:1378:TYR:CE1	2.54	0.43
3:N:1379:VAL:HA	3:N:1420:LEU:CB	2.48	0.43
3:N:1384:PRO:HG2	9:N:2066:HOH:O	2.19	0.43
4:O:48:MET:CB	4:O:54:LEU:HB2	2.49	0.43
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.48	0.43
1:B:64:GLU:HB3	9:B:391:HOH:O	2.17	0.43
1:B:138:LEU:HA	9:B:340:HOH:O	2.18	0.43
2:C:8:ARG:HH11	2:C:10:ARG:HH22	1.66	0.43
2:C:195:LEU:HD21	2:C:238:LEU:HG	2.00	0.43
2:C:449:ILE:C	2:C:451:LEU:H	2.26	0.43
2:C:548:PRO:HD2	2:C:843:HIS:CE1	2.54	0.43
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.84	0.43
2:C:758:ARG:HG2	2:C:758:ARG:HH11	1.83	0.43
2:C:1043:TYR:HE2	3:D:768:ASN:ND2	2.16	0.43
2:C:1103:ASP:N	2:C:1107:ASN:O	2.51	0.43
3:D:35:ARG:HH11	3:D:35:ARG:HG3	1.83	0.43
3:D:161:LEU:HD13	3:D:452:ILE:HD12	2.01	0.43
3:D:187:LYS:HB3	9:D:9776:HOH:O	2.18	0.43
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.00	0.43
3:D:645:PRO:HG3	3:D:725:SER:O	2.18	0.43
3:D:853:VAL:CG2	3:D:858:VAL:HG23	2.48	0.43
3:D:916:TYR:C	3:D:916:TYR:HD2	2.27	0.43
5:F:340:SER:O	5:F:342:VAL:N	2.52	0.43
1:L:137:ARG:NH1	1:L:137:ARG:HB3	2.34	0.43
2:M:57:GLU:O	2:M:62:GLY:HA3	2.18	0.43
2:M:206:THR:HG21	9:M:1185:HOH:O	2.18	0.43
2:M:304:LEU:HD23	2:M:305:PRO:HD3	2.00	0.43
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.48	0.43
2:M:435:TYR:C	2:M:437:ARG:N	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:704:HIS:HB3	2:M:831:ARG:HE	1.81	0.43
2:M:750:LYS:HB3	9:N:9537:HOH:O	2.18	0.43
2:M:836:GLY:HA2	3:N:725:SER:OG	2.19	0.43
2:M:842:ARG:NH2	2:M:887:GLU:CD	2.77	0.43
2:M:969:GLN:HE21	2:M:969:GLN:HB3	1.70	0.43
3:N:35:ARG:HG3	3:N:36:THR:N	2.34	0.43
3:N:81:THR:O	3:N:82:LYS:O	2.36	0.43
3:N:703:ASN:HD22	3:N:713:ILE:HD11	1.84	0.43
3:N:820:GLU:HA	3:N:825:ALA:O	2.19	0.43
3:N:846:PRO:HA	9:N:9225:HOH:O	2.18	0.43
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.48	0.43
1:B:59:GLU:HG2	9:B:461:HOH:O	2.19	0.43
1:B:101:LEU:HG	1:B:113:ASP:C	2.44	0.43
1:B:123:MET:O	1:B:125:PRO:HD3	2.19	0.43
2:C:22:GLN:O	2:C:121:MET:HE1	2.18	0.43
2:C:121:MET:HG3	2:C:127:PHE:CE2	2.54	0.43
2:C:185:LYS:HA	9:C:9171:HOH:O	2.18	0.43
2:C:338:GLU:O	2:C:341:THR:HG22	2.19	0.43
2:C:648:ARG:HG3	9:C:2118:HOH:O	2.19	0.43
3:D:84:ILE:HA	3:D:87:ARG:HG2	2.01	0.43
3:D:163:TYR:O	3:D:447:VAL:HG21	2.19	0.43
3:D:409:VAL:HB	9:D:9702:HOH:O	2.18	0.43
3:D:444:VAL:HG22	3:D:444:VAL:O	2.17	0.43
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.19	0.43
3:D:684:LYS:HG2	9:D:9634:HOH:O	2.17	0.43
3:D:820:GLU:HG3	3:D:836:VAL:HG11	2.00	0.43
3:D:921:ARG:HD2	9:D:9512:HOH:O	2.18	0.43
3:D:924:MET:HG3	9:D:2267:HOH:O	2.19	0.43
3:D:1110:ALA:O	3:D:1111:ASP:C	2.61	0.43
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.16	0.43
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.33	0.43
5:F:402:ASN:HA	5:F:405:LEU:CD2	2.47	0.43
1:K:96:THR:HG22	1:K:145:ASP:CG	2.44	0.43
1:L:86:VAL:HG13	1:L:86:VAL:O	2.18	0.43
1:L:194:LYS:HG2	9:L:1860:HOH:O	2.18	0.43
1:L:205:VAL:HG23	1:L:206:THR:N	2.34	0.43
2:M:10:ARG:HD2	9:M:1620:HOH:O	2.18	0.43
2:M:92:ALA:HB1	9:M:1326:HOH:O	2.18	0.43
2:M:196:LEU:O	2:M:200:LEU:HG	2.19	0.43
2:M:722:ILE:HG23	2:M:722:ILE:O	2.19	0.43
3:N:81:THR:HG22	3:N:82:LYS:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:421:LEU:HD11	3:N:437:VAL:HG22	2.00	0.43
3:N:486:ARG:HA	3:N:489:ARG:CD	2.47	0.43
3:N:1415:VAL:HG23	3:N:1415:VAL:O	2.19	0.43
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.54	0.43
5:P:232:ARG:HA	5:P:232:ARG:HD2	1.83	0.43
5:P:260:ILE:CG2	5:P:264:MET:HB2	2.45	0.43
1:A:20:TYR:HD2	1:A:21:GLY:N	2.08	0.43
2:C:20:GLU:HG2	2:C:21:ILE:N	2.34	0.43
2:C:73:LEU:HG	9:C:9802:HOH:O	2.18	0.43
2:C:75:GLU:O	2:C:93:PRO:HG2	2.18	0.43
2:C:611:ILE:HD11	2:C:641:PRO:HG3	2.01	0.43
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.86	0.43
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.58	0.43
2:C:1063:ARG:HB2	9:D:9247:HOH:O	2.18	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HG2	2.19	0.43
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.49	0.43
3:D:422:ALA:O	3:D:427:VAL:HG21	2.18	0.43
3:D:493:ARG:NH1	3:D:493:ARG:HG2	2.33	0.43
3:D:560:GLN:HB2	9:F:462:HOH:O	2.17	0.43
3:D:563:PRO:HG3	3:D:566:ILE:HD12	1.99	0.43
3:D:639:LEU:N	3:D:729:HIS:CD2	2.87	0.43
3:D:825:ALA:HB1	9:D:9252:HOH:O	2.19	0.43
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.33	0.43
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.49	0.43
3:D:1310:ARG:HG2	3:D:1327:ARG:HB3	2.00	0.43
3:D:1310:ARG:CZ	3:D:1327:ARG:HB3	2.48	0.43
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.83	0.43
4:E:41:GLU:HA	9:E:136:HOH:O	2.17	0.43
5:F:81:VAL:O	5:F:85:LEU:HG	2.19	0.43
5:F:102:LEU:HD13	5:F:187:LEU:HA	1.99	0.43
1:K:176:ARG:O	1:K:200:TRP:HE3	2.02	0.43
1:K:229:GLN:HE21	1:K:229:GLN:HB2	1.66	0.43
1:L:88:ARG:HD2	9:L:1915:HOH:O	2.17	0.43
1:L:212:ASN:HA	9:L:2433:HOH:O	2.18	0.43
2:M:227:PHE:HA	2:M:230:ARG:HH21	1.84	0.43
2:M:545:ASN:OD1	2:M:905:ILE:HD11	2.19	0.43
2:M:546:LEU:C	2:M:581:THR:HG21	2.44	0.43
2:M:547:ILE:HA	2:M:548:PRO:HD3	1.93	0.43
2:M:1056:LYS:HD2	9:M:1234:HOH:O	2.19	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.54	0.43
3:N:111:LYS:HD2	3:N:1452:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:399:ARG:HB3	3:N:402:PRO:HG3	2.00	0.43
3:N:482:LYS:HE3	9:N:9201:HOH:O	2.18	0.43
3:N:544:TYR:HB3	9:N:9462:HOH:O	2.18	0.43
3:N:688:TRP:HA	3:N:688:TRP:HE3	1.84	0.43
3:N:759:ALA:HA	3:N:763:MET:HB3	2.00	0.43
3:N:1031:ASN:HB3	9:N:9624:HOH:O	2.18	0.43
3:N:1465:ASN:HD21	3:N:1470:ARG:HH11	1.65	0.43
4:O:59:ASN:HB2	9:O:3494:HOH:O	2.19	0.43
5:P:117:SER:OG	5:P:124:PRO:HG3	2.18	0.43
5:P:162:LYS:HA	5:P:165:SER:OG	2.18	0.43
5:P:416:ARG:HD2	5:P:419:ARG:CB	2.49	0.43
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.48	0.42
1:A:189:ARG:HD2	1:A:191:ASP:OD2	2.18	0.42
2:C:36:PRO:HB2	2:C:70:GLU:HG2	2.01	0.42
2:C:118:ILE:HD12	2:C:118:ILE:O	2.19	0.42
2:C:301:GLU:O	2:C:305:PRO:HG2	2.19	0.42
2:C:310:LEU:HD12	2:C:310:LEU:HA	1.86	0.42
2:C:339:LEU:HG	9:C:9652:HOH:O	2.19	0.42
2:C:886:LEU:HD23	3:D:951:ILE:CG1	2.48	0.42
2:C:948:GLU:CD	2:C:955:PRO:HB3	2.44	0.42
2:C:1088:LEU:HD21	2:C:1092:LEU:HD12	2.01	0.42
3:D:213:VAL:HG11	9:D:9561:HOH:O	2.19	0.42
3:D:416:ALA:HB3	3:D:417:PRO:HD3	2.01	0.42
3:D:553:ARG:NH1	5:F:214:GLN:HB2	2.34	0.42
3:D:703:ASN:ND2	3:D:707:THR:HG23	2.33	0.42
3:D:764:LEU:HD23	3:D:767:HIS:CE1	2.52	0.42
3:D:924:MET:O	3:D:927:THR:HB	2.19	0.42
3:D:1299:PHE:N	3:D:1299:PHE:HD2	2.16	0.42
3:D:1359:GLN:HB3	3:D:1359:GLN:HE21	1.59	0.42
4:E:72:ARG:NH2	9:E:102:HOH:O	2.50	0.42
1:K:131:THR:HG22	9:K:1923:HOH:O	2.17	0.42
1:K:195:LEU:HD12	1:K:196:THR:N	2.34	0.42
1:L:51:THR:OG1	1:L:87:VAL:HG22	2.19	0.42
1:L:186:LEU:N	9:L:1387:HOH:O	2.50	0.42
2:M:58:ASP:O	2:M:59:LYS:HG3	2.18	0.42
2:M:242:LEU:HD23	2:M:243:ARG:H	1.84	0.42
2:M:261:ILE:HG21	9:M:1419:HOH:O	2.19	0.42
2:M:274:ARG:NE	9:M:2049:HOH:O	2.52	0.42
2:M:405:ARG:NH1	2:M:442:GLU:HG2	2.33	0.42
2:M:409:ARG:HG3	2:M:453:THR:C	2.44	0.42
2:M:473:ARG:HD3	2:M:474:VAL:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:692:GLU:HB2	2:M:853:LEU:O	2.19	0.42
2:M:770:GLU:N	9:M:1470:HOH:O	2.48	0.42
3:N:123:LEU:HD21	3:N:152:LEU:HD22	2.01	0.42
3:N:169:TYR:N	3:N:170:PRO:HD3	2.34	0.42
3:N:440:VAL:HG12	3:N:441:ARG:N	2.34	0.42
3:N:654:LYS:CD	3:N:674:ARG:HH22	2.31	0.42
3:N:1045:MET:CG	3:N:1073:SER:HA	2.44	0.42
3:N:1310:ARG:N	9:N:9288:HOH:O	2.51	0.42
5:P:254:GLN:HA	9:P:707:HOH:O	2.19	0.42
1:B:85:LEU:HD12	1:B:124:ASN:HB3	2.00	0.42
2:C:220:GLY:HA3	9:C:9396:HOH:O	2.19	0.42
2:C:230:ARG:HG3	9:C:9876:HOH:O	2.18	0.42
2:C:313:LEU:HD12	2:C:313:LEU:O	2.19	0.42
2:C:910:LYS:HG3	9:C:9658:HOH:O	2.19	0.42
3:D:886:VAL:HG13	3:D:930:LEU:HD13	2.00	0.42
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.19	0.42
3:D:1480:PHE:CD1	3:D:1480:PHE:C	2.97	0.42
5:F:273:ARG:HG2	9:F:622:HOH:O	2.19	0.42
5:F:375:LEU:HD23	5:F:376:ILE:HG13	2.02	0.42
1:L:89:PHE:CZ	1:L:146:ARG:HB3	2.54	0.42
2:M:18:LEU:HD23	2:M:404:LEU:CD2	2.49	0.42
2:M:139:GLN:CG	2:M:418:LEU:HD22	2.49	0.42
2:M:265:ARG:HD3	2:M:267:TYR:HB3	2.00	0.42
2:M:353:ARG:HG2	9:M:1432:HOH:O	2.19	0.42
2:M:473:ARG:HD2	2:M:475:VAL:CG2	2.49	0.42
3:N:163:TYR:HE2	3:N:167:GLU:OE2	2.02	0.42
3:N:455:ARG:HB3	3:N:460:ALA:HB2	2.00	0.42
3:N:551:ASN:O	3:N:555:LYS:HD2	2.20	0.42
3:N:587:ARG:HB2	9:N:2283:HOH:O	2.19	0.42
3:N:1187:PRO:HG2	9:N:9329:HOH:O	2.19	0.42
3:N:1379:VAL:CG1	3:N:1395:LEU:HD23	2.47	0.42
3:N:1406:ARG:HG2	3:N:1407:LEU:HD13	2.00	0.42
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.83	0.42
5:P:133:ALA:HB2	5:P:142:ARG:HE	1.84	0.42
1:A:30:ARG:NH1	2:C:938:LYS:HZ3	2.17	0.42
1:B:51:THR:HA	1:B:145:ASP:O	2.18	0.42
1:B:111:ALA:O	1:B:114:PHE:HD1	2.02	0.42
2:C:376:ARG:NH1	2:C:376:ARG:HB2	2.35	0.42
2:C:760:SER:O	2:C:785:VAL:HG22	2.20	0.42
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.54	0.42
2:C:925:TYR:CD1	2:C:925:TYR:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:389:GLU:O	3:D:389:GLU:HG2	2.19	0.42
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.47	0.42
3:D:462:GLN:HB3	9:D:2118:HOH:O	2.19	0.42
3:D:798:GLU:HA	9:D:2151:HOH:O	2.20	0.42
3:D:804:LEU:N	9:D:2490:HOH:O	2.51	0.42
3:D:938:GLY:O	3:D:942:SER:HB3	2.18	0.42
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	2.01	0.42
4:E:40:LEU:HD22	9:E:214:HOH:O	2.20	0.42
1:K:44:LEU:HD23	1:K:174:VAL:CG2	2.48	0.42
1:L:65:PHE:HB2	9:L:1369:HOH:O	2.17	0.42
2:M:83:CYS:CA	2:M:88:LEU:HB3	2.43	0.42
2:M:501:THR:OG1	2:M:532:MET:HE1	2.18	0.42
2:M:899:GLN:HG3	2:M:901:TYR:OH	2.18	0.42
2:M:938:LYS:O	2:M:942:GLU:HB2	2.19	0.42
2:M:1037:VAL:HG13	2:M:1049:LEU:HD21	2.01	0.42
3:N:168:THR:OG1	3:N:393:ILE:HB	2.20	0.42
3:N:176:ASP:O	3:N:180:LYS:HG3	2.19	0.42
3:N:221:ALA:HB3	3:N:367:ILE:CB	2.49	0.42
3:N:521:PRO:O	3:N:525:ARG:NH1	2.53	0.42
3:N:728:LEU:HG	3:N:729:HIS:N	2.35	0.42
3:N:863:VAL:HG12	9:N:9874:HOH:O	2.17	0.42
3:N:958:GLU:HG3	3:N:961:LYS:HE2	2.02	0.42
3:N:1033:GLN:NE2	3:N:1036:ARG:NH1	2.55	0.42
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.53	0.42
3:N:1114:THR:CG2	3:N:1116:ASN:HD21	2.32	0.42
3:N:1271:LYS:HE3	3:N:1334:GLN:HE22	1.85	0.42
3:N:1346:ARG:NE	3:N:1346:ARG:HA	2.34	0.42
1:A:67:THR:HG21	2:C:627:ARG:NE	2.30	0.42
1:A:207:PRO:HB2	9:A:395:HOH:O	2.18	0.42
2:C:260:LEU:HA	2:C:291:ALA:HB1	2.00	0.42
2:C:372:LEU:HD21	9:C:9063:HOH:O	2.19	0.42
2:C:773:LEU:HD22	5:F:373:LYS:CB	2.50	0.42
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.29	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:O	2.52	0.42
2:C:1060:ILE:HA	2:C:1063:ARG:NH1	2.35	0.42
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	2.19	0.42
3:D:131:LYS:NZ	9:D:2249:HOH:O	2.52	0.42
3:D:441:ARG:O	3:D:443:VAL:N	2.52	0.42
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.88	0.42
3:D:820:GLU:HA	3:D:825:ALA:O	2.20	0.42
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1057:VAL:HA	3:D:1069:GLU:OE2	2.19	0.42
4:E:61:GLU:OE2	4:E:62:THR:N	2.52	0.42
5:F:88:ILE:O	5:F:92:PRO:HG3	2.20	0.42
5:F:95:THR:HG23	5:F:234:LYS:NZ	2.34	0.42
5:F:102:LEU:O	5:F:106:VAL:HG23	2.20	0.42
5:F:400:ILE:HD13	9:F:481:HOH:O	2.19	0.42
1:L:172:SER:C	1:L:174:VAL:N	2.76	0.42
1:L:184:THR:O	1:L:192:LEU:HB2	2.19	0.42
2:M:410:ILE:H	2:M:453:THR:C	2.27	0.42
2:M:611:ILE:HD11	2:M:641:PRO:CG	2.49	0.42
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.34	0.42
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.26	0.42
2:M:950:LEU:HA	9:M:1413:HOH:O	2.18	0.42
3:N:573:MET:SD	5:P:210:LEU:HB3	2.59	0.42
3:N:666:ILE:HG22	3:N:684:LYS:NZ	2.35	0.42
3:N:1007:VAL:O	3:N:1010:ASN:HB3	2.19	0.42
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.42	0.42
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	2.01	0.42
4:O:58:PRO:HD2	9:O:5431:HOH:O	2.19	0.42
5:P:367:MET:HE2	5:P:367:MET:N	2.35	0.42
1:A:58:ILE:HG21	1:A:68:ILE:HD11	2.01	0.42
1:A:72:LYS:O	2:C:608:GLY:HA2	2.19	0.42
1:A:173:PRO:O	1:A:201:THR:HG23	2.19	0.42
1:A:193:ASP:OD1	1:A:193:ASP:N	2.52	0.42
1:B:96:THR:HB	9:B:437:HOH:O	2.19	0.42
2:C:164:PRO:HA	9:C:9763:HOH:O	2.19	0.42
2:C:323:ASP:HB2	9:C:9484:HOH:O	2.19	0.42
2:C:707:ARG:HG3	2:C:826:TYR:CD1	2.55	0.42
2:C:853:LEU:HD23	2:C:858:MET:HB3	2.01	0.42
2:C:885:ILE:HG21	3:D:949:ILE:HG22	2.02	0.42
2:C:1019:GLN:H	2:C:1019:GLN:HG2	1.61	0.42
3:D:85:VAL:HG12	3:D:89:ARG:HE	1.85	0.42
3:D:93:ILE:HD12	3:D:519:VAL:CG2	2.47	0.42
3:D:146:PRO:HG2	9:D:2681:HOH:O	2.18	0.42
3:D:162:ARG:O	3:D:162:ARG:HD3	2.19	0.42
3:D:400:VAL:HB	9:D:2574:HOH:O	2.19	0.42
3:D:616:GLN:C	3:D:618:LEU:N	2.78	0.42
3:D:683:ILE:HG23	3:D:687:VAL:HB	2.00	0.42
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.48	0.42
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.49	0.42
4:E:12:MET:HE1	9:E:233:HOH:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:184:ARG:HH21	5:F:221:ILE:CG2	2.33	0.42
5:F:220:LEU:HD21	5:F:235:PHE:CE2	2.55	0.42
5:F:300:ASP:CG	5:F:301:ALA:N	2.78	0.42
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.19	0.42
1:K:211:LEU:O	1:K:215:VAL:HG13	2.19	0.42
1:L:13:VAL:HG13	1:L:23:PHE:CE1	2.54	0.42
1:L:219:ARG:O	1:L:223:THR:HG23	2.19	0.42
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.54	0.42
2:M:45:GLN:N	9:M:1760:HOH:O	2.53	0.42
2:M:73:LEU:HD23	2:M:94:LEU:HD22	2.02	0.42
2:M:191:PHE:CE2	2:M:196:LEU:HB2	2.54	0.42
2:M:346:VAL:HG12	9:M:2249:HOH:O	2.20	0.42
2:M:365:ASP:O	2:M:367:LEU:HD12	2.19	0.42
2:M:603:VAL:HG13	2:M:613:VAL:HG12	2.01	0.42
3:N:34:TYR:N	3:N:34:TYR:CD2	2.87	0.42
3:N:65:ARG:HG3	3:N:66:GLN:N	2.32	0.42
3:N:127:LEU:HD11	3:N:461:ILE:HD11	2.01	0.42
3:N:400:VAL:HG22	9:N:9669:HOH:O	2.19	0.42
3:N:525:ARG:N	3:N:526:PRO:HD3	2.35	0.42
3:N:657:LEU:O	3:N:658:LEU:C	2.63	0.42
3:N:674:ARG:HD3	9:N:2542:HOH:O	2.18	0.42
3:N:1065:LEU:HD12	3:N:1069:GLU:OE1	2.19	0.42
3:N:1101:VAL:CG1	3:N:1428:ALA:HB2	2.49	0.42
3:N:1110:ALA:O	3:N:1111:ASP:C	2.60	0.42
3:N:1478:SER:C	3:N:1480:PHE:N	2.76	0.42
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	2.19	0.42
5:P:104:ARG:HG2	9:P:571:HOH:O	2.20	0.42
5:P:271:LEU:CD1	5:P:307:THR:HB	2.49	0.42
2:C:195:LEU:CD1	9:C:2092:HOH:O	2.65	0.42
2:C:272:ALA:O	2:C:276:LYS:HE3	2.20	0.42
2:C:328:LEU:C	2:C:330:ASN:H	2.27	0.42
2:C:464:LEU:HD12	2:C:465:GLY:N	2.34	0.42
2:C:626:ARG:HH12	2:C:637:LEU:CD1	2.31	0.42
2:C:640:ARG:CB	2:C:642:ARG:HH12	2.33	0.42
2:C:964:LYS:HD2	9:C:9183:HOH:O	2.19	0.42
3:D:62:LYS:N	9:D:9127:HOH:O	2.52	0.42
3:D:102:ILE:HD12	3:D:579:ASP:CG	2.44	0.42
3:D:175:VAL:HG13	3:D:217:LYS:CB	2.49	0.42
3:D:445:ARG:NH1	3:D:445:ARG:HG2	2.34	0.42
3:D:535:PHE:HB2	9:D:2022:HOH:O	2.19	0.42
3:D:613:ARG:HD2	3:D:613:ARG:HA	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:661:MET:HE2	3:D:677:LEU:HD11	2.01	0.42
3:D:724:GLN:N	9:D:2200:HOH:O	2.48	0.42
3:D:919:PHE:CD2	3:D:919:PHE:C	2.98	0.42
3:D:1271:LYS:HD3	9:D:2230:HOH:O	2.18	0.42
3:D:1339:LYS:HG2	3:D:1343:ALA:HB2	2.01	0.42
3:D:1485:GLN:H	3:D:1485:GLN:HG2	1.64	0.42
5:F:132:ARG:HD3	5:F:181:GLU:CD	2.44	0.42
5:F:190:ALA:HB1	9:F:630:HOH:O	2.19	0.42
5:F:260:ILE:HD11	5:F:310:ILE:CG2	2.50	0.42
1:L:137:ARG:HG3	9:L:2022:HOH:O	2.19	0.42
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.19	0.42
2:M:3:ILE:HA	2:M:900:ARG:O	2.20	0.42
2:M:103:LYS:HA	2:M:103:LYS:HZ2	1.84	0.42
2:M:182:VAL:HG12	9:M:1903:HOH:O	2.19	0.42
2:M:328:LEU:HD11	2:M:434:HIS:CD2	2.55	0.42
2:M:368:THR:HB	2:M:369:PRO:CD	2.47	0.42
2:M:498:GLN:O	2:M:532:MET:SD	2.77	0.42
2:M:682:TYR:HB2	9:M:1161:HOH:O	2.20	0.42
2:M:779:GLY:HA3	9:M:1700:HOH:O	2.20	0.42
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.48	0.42
2:M:861:LEU:HD23	2:M:862:PRO:HD2	2.01	0.42
2:M:910:LYS:HD2	2:M:910:LYS:N	2.34	0.42
9:M:1234:HOH:O	3:N:751:LEU:HD12	2.19	0.42
3:N:148:GLU:HB3	3:N:151:GLN:CB	2.45	0.42
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.01	0.42
3:N:206:ARG:HG2	3:N:206:ARG:HH11	1.85	0.42
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.53	0.42
3:N:553:ARG:NH1	9:N:9975:HOH:O	2.52	0.42
3:N:644:LEU:O	3:N:720:LEU:HA	2.19	0.42
3:N:852:ALA:O	3:N:857:ILE:HG12	2.20	0.42
3:N:1033:GLN:HB3	9:N:9624:HOH:O	2.20	0.42
3:N:1138:ALA:CA	3:N:1141:GLU:HG3	2.44	0.42
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.55	0.42
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.84	0.42
4:O:31:LEU:HD11	4:O:60:ALA:HB2	2.02	0.42
5:P:352:GLU:O	5:P:356:LYS:HG3	2.19	0.42
5:P:361:LEU:O	5:P:362:SER:C	2.61	0.42
5:P:361:LEU:CD2	5:P:366:ALA:HB2	2.39	0.42
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.55	0.42
1:B:217:ILE:O	1:B:221:HIS:ND1	2.53	0.42
2:C:263:ASP:C	2:C:264:PRO:O	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:265:ARG:HB2	9:C:9022:HOH:O	2.19	0.42
2:C:462:ASP:CG	2:C:463:GLU:N	2.77	0.42
2:C:1097:LEU:HD12	3:D:1451:ALA:HB2	2.02	0.42
3:D:4:GLU:HA	9:D:2324:HOH:O	2.20	0.42
3:D:36:THR:O	3:D:38:LYS:N	2.53	0.42
3:D:186:VAL:HG11	3:D:213:VAL:HB	2.00	0.42
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.82	0.42
3:D:525:ARG:HA	3:D:538:SER:CB	2.44	0.42
3:D:553:ARG:HH11	5:F:214:GLN:CB	2.33	0.42
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.49	0.42
3:D:818:ARG:HB2	9:D:9115:HOH:O	2.17	0.42
3:D:850:LEU:HG	3:D:850:LEU:H	1.47	0.42
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.48	0.42
3:D:1294:VAL:O	3:D:1300:SER:HA	2.20	0.42
3:D:1302:GLU:HB3	9:D:9800:HOH:O	2.18	0.42
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.50	0.42
5:F:218:GLN:HG2	9:F:817:HOH:O	2.18	0.42
5:F:369:LEU:HA	9:F:706:HOH:O	2.19	0.42
1:L:48:ILE:HD12	1:L:174:VAL:HG21	2.01	0.42
1:L:143:ARG:HB2	9:L:3535:HOH:O	2.18	0.42
1:L:169:ALA:HB1	1:L:171:PHE:CE2	2.55	0.42
2:M:41:ASN:H	2:M:41:ASN:ND2	2.18	0.42
2:M:172:ILE:HD12	2:M:172:ILE:N	2.35	0.42
2:M:358:ARG:NH2	2:M:374:ASN:HB3	2.32	0.42
2:M:549:PHE:N	9:M:1643:HOH:O	2.52	0.42
2:M:577:PRO:HA	2:M:671:ASN:ND2	2.31	0.42
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.79	0.42
2:M:674:VAL:O	2:M:989:VAL:HA	2.18	0.42
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	2.01	0.42
2:M:1098:ASP:OD1	2:M:1098:ASP:C	2.63	0.42
3:N:13:ALA:O	3:N:511:TRP:HB3	2.19	0.42
3:N:44:LEU:O	3:N:525:ARG:NH2	2.53	0.42
3:N:56:TYR:HE2	3:N:69:GLU:HB2	1.85	0.42
3:N:95:LEU:HD23	3:N:574:LEU:HD21	2.01	0.42
3:N:223:LEU:N	3:N:365:ASP:O	2.50	0.42
3:N:537:THR:HG22	5:P:314:PRO:HB2	2.01	0.42
3:N:564:GLU:HA	3:N:567:ILE:HD12	2.02	0.42
3:N:565:ILE:O	3:N:569:ASN:HB2	2.18	0.42
3:N:630:VAL:HG12	3:N:631:ILE:N	2.33	0.42
3:N:712:GLY:HA2	9:N:9145:HOH:O	2.20	0.42
3:N:754:PHE:HA	4:O:24:ALA:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1109:GLU:HA	9:N:9843:HOH:O	2.19	0.42
3:N:1118:ILE:CG2	3:N:1346:ARG:HH22	2.32	0.42
3:N:1149:LEU:HD21	9:N:2153:HOH:O	2.18	0.42
3:N:1150:ALA:O	3:N:1151:ARG:HD3	2.19	0.42
3:N:1441:GLN:HB3	9:N:9134:HOH:O	2.18	0.42
4:O:51:LEU:HD22	9:O:2325:HOH:O	2.19	0.42
5:P:138:SER:O	5:P:141:VAL:HG12	2.20	0.42
5:P:185:GLN:O	5:P:189:GLU:HG3	2.20	0.42
1:A:178:ALA:O	1:A:198:ARG:HG3	2.19	0.42
2:C:199:VAL:HG13	2:C:235:LEU:CG	2.49	0.42
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.49	0.42
2:C:305:PRO:HG2	9:C:9047:HOH:O	2.20	0.42
2:C:554:ASP:HB2	2:C:880:MET:HB2	2.01	0.42
2:C:659:PRO:HD3	9:C:9247:HOH:O	2.19	0.42
2:C:834:GLN:HE21	2:C:834:GLN:HB2	1.63	0.42
2:C:896:PHE:HB3	2:C:924:VAL:HB	2.00	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	0.42
3:D:644:LEU:O	3:D:720:LEU:HA	2.20	0.42
3:D:662:GLU:HG3	3:D:669:ASN:HA	2.02	0.42
3:D:806:PHE:O	3:D:807:ALA:C	2.62	0.42
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.54	0.42
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.49	0.42
3:D:1009:LYS:O	3:D:1013:GLU:HG3	2.20	0.42
3:D:1152:GLU:HB3	9:D:2316:HOH:O	2.18	0.42
3:D:1223:ILE:H	3:D:1223:ILE:CD1	2.15	0.42
3:D:1405:GLU:OE2	3:D:1413:THR:HB	2.19	0.42
3:D:1487:VAL:HG22	9:D:9579:HOH:O	2.19	0.42
5:F:110:MET:CG	5:F:114:LYS:HE3	2.50	0.42
1:K:35:THR:HG21	1:L:43:ILE:CD1	2.46	0.42
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.85	0.42
2:M:677:MET:HB3	2:M:987:ILE:HD13	2.01	0.42
2:M:1095:LEU:O	2:M:1096:ALA:C	2.62	0.42
3:N:96:ALA:HB1	3:N:554:LEU:HD12	2.02	0.42
3:N:199:LEU:N	9:N:9842:HOH:O	2.53	0.42
3:N:660:LYS:HD2	3:N:694:VAL:HG23	2.02	0.42
3:N:700:VAL:O	3:N:715:ALA:HA	2.19	0.42
3:N:853:VAL:HA	3:N:858:VAL:O	2.19	0.42
3:N:863:VAL:HG21	9:N:9558:HOH:O	2.20	0.42
3:N:1054:GLU:HG2	9:N:9206:HOH:O	2.18	0.42
4:O:29:GLN:HE21	4:O:29:GLN:HB2	1.70	0.42
5:P:259:ARG:HG3	5:P:259:ARG:NH1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.55	0.42
1:B:101:LEU:HD11	1:B:113:ASP:HB2	2.02	0.42
1:B:184:THR:O	1:B:192:LEU:HB2	2.19	0.42
2:C:26:TYR:HB2	2:C:121:MET:CE	2.50	0.42
2:C:95:TYR:HD2	2:C:114:PHE:CB	2.26	0.42
2:C:502:PRO:HB2	2:C:509:ALA:HB3	2.02	0.42
2:C:761:PHE:N	2:C:761:PHE:CD1	2.88	0.42
2:C:916:GLU:HB3	9:C:9202:HOH:O	2.19	0.42
2:C:959:PRO:HG2	9:C:2237:HOH:O	2.18	0.42
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.19	0.42
3:D:93:ILE:CD1	3:D:519:VAL:HG22	2.49	0.42
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	2.02	0.42
3:D:190:GLU:HG3	3:D:210:ARG:CZ	2.49	0.42
3:D:583:ASP:HB2	3:D:604:THR:OG1	2.19	0.42
3:D:678:GLU:HB2	9:D:2080:HOH:O	2.20	0.42
3:D:1107:VAL:HA	3:D:1200:VAL:O	2.19	0.42
3:D:1129:THR:O	3:D:1130:ARG:HD2	2.19	0.42
3:D:1264:GLU:OE1	3:D:1425:THR:HB	2.19	0.42
3:D:1287:GLU:HB3	9:D:2572:HOH:O	2.20	0.42
3:D:1289:LYS:HE2	3:D:1306:PRO:HG3	2.02	0.42
3:D:1460:ILE:O	3:D:1464:GLU:CD	2.63	0.42
5:F:87:GLU:HB3	9:F:660:HOH:O	2.19	0.42
5:F:94:LEU:HB2	5:F:98:GLU:OE2	2.20	0.42
5:F:302:LYS:HA	9:F:599:HOH:O	2.19	0.42
1:L:1:MET:O	1:L:6:LEU:HB2	2.20	0.42
1:L:12:THR:OG1	1:L:24:VAL:HB	2.20	0.42
1:L:112:ARG:NH1	1:L:126:ASP:HA	2.27	0.42
2:M:127:PHE:O	2:M:133:ASP:HA	2.20	0.42
2:M:291:ALA:O	2:M:299:LYS:HE2	2.19	0.42
2:M:449:ILE:O	2:M:451:LEU:N	2.53	0.42
2:M:839:LEU:N	2:M:839:LEU:HD23	2.34	0.42
2:M:910:LYS:HB3	2:M:912:PRO:HD2	2.01	0.42
2:M:1070:ILE:HG23	3:N:656:PHE:CD1	2.54	0.42
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.47	0.42
3:N:179:VAL:O	3:N:183:GLU:HB2	2.20	0.42
3:N:209:ARG:HD2	9:N:9666:HOH:O	2.20	0.42
3:N:565:ILE:HD11	5:P:189:GLU:HG2	2.02	0.42
3:N:684:LYS:CB	3:N:686:GLU:HG3	2.50	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
3:N:1107:VAL:O	3:N:1218:GLY:N	2.52	0.42
4:O:36:LYS:HB2	9:O:6857:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:GLY:N	1:A:193:ASP:OD2	2.52	0.42
1:A:184:THR:HG23	1:A:192:LEU:HB2	2.02	0.42
1:B:99:LEU:HG	1:B:114:PHE:HB3	2.02	0.42
2:C:5:ARG:H	2:C:5:ARG:HG3	1.72	0.42
2:C:137:VAL:O	2:C:391:LEU:HD11	2.19	0.42
2:C:140:ILE:HG12	2:C:411:SER:O	2.20	0.42
2:C:165:LEU:HA	2:C:166:PRO:O	2.20	0.42
2:C:390:GLN:HG2	9:C:9061:HOH:O	2.19	0.42
2:C:418:LEU:HB2	9:C:9587:HOH:O	2.20	0.42
2:C:504:GLU:OE1	2:C:507:ARG:HD2	2.20	0.42
2:C:911:GLU:HB3	2:C:912:PRO:HD3	2.02	0.42
2:C:950:LEU:HD11	3:D:1017:PHE:O	2.20	0.42
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.02	0.42
2:C:1001:VAL:HA	9:C:9140:HOH:O	2.19	0.42
2:C:1019:GLN:HE21	2:C:1019:GLN:HB3	1.65	0.42
3:D:33:ASN:HD22	3:D:34:TYR:N	2.18	0.42
3:D:708:LEU:HB3	3:D:1231:GLU:HG3	2.02	0.42
3:D:1129:THR:HG22	9:D:2169:HOH:O	2.20	0.42
3:D:1191:PRO:HD3	3:D:1204:CYS:O	2.20	0.42
3:D:1207:TYR:HE1	9:D:9139:HOH:O	2.02	0.42
3:D:1275:SER:HB3	3:D:1325:LEU:HD21	2.02	0.42
3:D:1307:LYS:NZ	9:D:9944:HOH:O	2.52	0.42
5:F:321:ILE:O	5:F:327:SER:HB3	2.20	0.42
1:K:88:ARG:HB2	1:K:204:SER:HA	2.02	0.42
1:L:156:HIS:HE1	9:L:3186:HOH:O	2.03	0.42
2:M:282:GLY:HA2	2:M:308:ARG:HH22	1.85	0.42
2:M:443:THR:HA	2:M:444:PRO:HD3	1.85	0.42
2:M:673:LEU:HD23	2:M:673:LEU:C	2.45	0.42
2:M:688:ILE:HD11	2:M:847:GLY:HA3	2.02	0.42
2:M:815:LEU:HD21	2:M:820:ARG:O	2.20	0.42
3:N:133:ILE:HD12	3:N:158:TYR:CE2	2.55	0.42
3:N:535:PHE:O	5:P:314:PRO:CA	2.68	0.42
3:N:544:TYR:O	3:N:548:ILE:HG12	2.20	0.42
3:N:973:GLN:HA	3:N:976:GLN:HE21	1.84	0.42
3:N:1011:PHE:HB3	3:N:1021:TYR:CG	2.55	0.42
5:P:328:PHE:O	5:P:331:ASP:HB2	2.20	0.42
5:P:365:GLU:CD	5:P:397:ILE:HA	2.45	0.42
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.40	0.41
3:D:450:TYR:O	3:D:452:ILE:HG22	2.20	0.41
3:D:461:ILE:O	3:D:465:LEU:HB2	2.20	0.41
3:D:610:LYS:HE3	9:D:9460:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.49	0.41
3:D:671:LYS:HB2	9:D:9143:HOH:O	2.20	0.41
3:D:929:ARG:HG3	3:D:929:ARG:NH1	2.33	0.41
3:D:1122:LEU:HD23	3:D:1178:ALA:CB	2.47	0.41
3:D:1217:ILE:H	3:D:1217:ILE:HG13	1.58	0.41
5:F:97:GLU:N	5:F:97:GLU:CD	2.77	0.41
1:K:131:THR:N	9:K:2174:HOH:O	2.53	0.41
1:L:71:VAL:HA	9:L:3336:HOH:O	2.19	0.41
2:M:1:MET:SD	2:M:900:ARG:HG3	2.60	0.41
2:M:72:ARG:HG2	9:M:1219:HOH:O	2.20	0.41
2:M:146:VAL:HG13	2:M:161:SER:O	2.20	0.41
2:M:151:ASP:HB2	2:M:157:ARG:O	2.20	0.41
2:M:290:LEU:HB3	9:M:1355:HOH:O	2.19	0.41
2:M:858:MET:HB2	2:M:859:PRO:CD	2.50	0.41
2:M:906:PHE:HD1	3:N:1067:VAL:HG22	1.84	0.41
3:N:535:PHE:O	5:P:314:PRO:HA	2.19	0.41
3:N:1089:ALA:HA	9:N:9308:HOH:O	2.20	0.41
5:P:84:TYR:HD2	5:P:192:LEU:HD13	1.85	0.41
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.35	0.41
1:A:58:ILE:HD13	1:A:140:MET:HB2	2.02	0.41
2:C:54:ILE:HB	9:C:9517:HOH:O	2.20	0.41
2:C:443:THR:HG21	2:C:450:GLY:N	2.33	0.41
2:C:478:VAL:HB	9:C:9898:HOH:O	2.19	0.41
2:C:681:GLY:C	3:D:635:PRO:HG3	2.45	0.41
2:C:945:ARG:CD	9:C:2219:HOH:O	2.58	0.41
2:C:1039:ALA:O	2:C:1043:TYR:CD1	2.72	0.41
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.86	0.41
3:D:28:LYS:HD3	3:D:41:ARG:CZ	2.50	0.41
3:D:28:LYS:HE2	3:D:41:ARG:NH2	2.35	0.41
3:D:477:LEU:HD23	9:D:2405:HOH:O	2.20	0.41
3:D:616:GLN:HE21	3:D:619:LEU:HD13	1.85	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.72	0.41
3:D:1091:SER:HB2	3:D:1234:THR:OG1	2.19	0.41
3:D:1437:ALA:HA	3:D:1440:PHE:HE1	1.84	0.41
3:D:1495:ILE:HD11	9:E:141:HOH:O	2.21	0.41
3:D:1498:ALA:HB1	9:D:9843:HOH:O	2.19	0.41
5:F:88:ILE:HD13	5:F:193:ARG:HD3	2.01	0.41
5:F:301:ALA:HB3	9:F:864:HOH:O	2.19	0.41
5:F:373:LYS:HD3	5:F:378:GLY:C	2.45	0.41
1:L:114:PHE:CE2	1:L:142:VAL:HG22	2.55	0.41
2:M:473:ARG:HD2	2:M:475:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:580:MET:O	2:M:902:ILE:HA	2.20	0.41
2:M:660:ALA:O	2:M:667:ALA:O	2.38	0.41
2:M:739:GLU:HG3	9:M:1158:HOH:O	2.20	0.41
2:M:925:TYR:O	2:M:929:ARG:HG2	2.19	0.41
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.83	0.41
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.85	0.41
3:N:180:LYS:HE2	3:N:219:GLU:CB	2.50	0.41
3:N:1299:PHE:N	3:N:1299:PHE:CD2	2.89	0.41
5:P:287:THR:O	5:P:289:GLU:N	2.53	0.41
1:A:96:THR:N	9:A:555:HOH:O	2.52	0.41
2:C:69:LEU:HB2	2:C:97:ARG:HB2	2.02	0.41
2:C:178:PRO:HA	9:C:9133:HOH:O	2.20	0.41
2:C:358:ARG:HB3	2:C:371:LYS:O	2.20	0.41
2:C:1025:ALA:HB1	9:C:9792:HOH:O	2.20	0.41
2:C:1076:VAL:CG2	3:D:752:SER:HA	2.50	0.41
3:D:187:LYS:HD3	3:D:187:LYS:HA	1.78	0.41
3:D:438:ASP:OD2	3:D:440:VAL:HB	2.19	0.41
3:D:462:GLN:HB2	3:D:513:ILE:HG21	2.00	0.41
3:D:629:SER:O	3:D:744:GLN:HG2	2.20	0.41
3:D:724:GLN:HG3	3:D:725:SER:N	2.35	0.41
3:D:916:TYR:CE2	3:D:920:LEU:HD22	2.55	0.41
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.20	0.41
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.55	0.41
4:E:2:ALA:N	9:E:107:HOH:O	2.53	0.41
4:E:57:ASP:N	4:E:58:PRO:HD3	2.36	0.41
5:F:291:ILE:HG23	5:F:292:ALA:N	2.35	0.41
5:F:378:GLY:N	9:F:915:HOH:O	2.52	0.41
5:F:414:ARG:HG2	5:F:414:ARG:NH1	2.34	0.41
5:F:419:ARG:N	9:F:881:HOH:O	2.51	0.41
1:K:85:LEU:HD12	1:K:124:ASN:HB3	2.02	0.41
1:K:156:HIS:HD2	1:K:157:GLY:H	1.66	0.41
1:L:58:ILE:HD13	1:L:140:MET:HB2	2.02	0.41
2:M:96:ALA:N	9:M:2309:HOH:O	2.53	0.41
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.50	0.41
2:M:309:TYR:HD1	9:M:1833:HOH:O	2.02	0.41
2:M:352:ALA:C	2:M:355:VAL:HG12	2.46	0.41
2:M:432:ARG:NH1	3:N:1048:PRO:HD3	2.35	0.41
2:M:557:ARG:HE	2:M:879:ARG:HG2	1.85	0.41
2:M:564:MET:HG2	2:M:840:ALA:HB3	2.02	0.41
2:M:637:LEU:HA	2:M:659:PRO:HG3	2.02	0.41
2:M:881:ASN:H	2:M:881:ASN:ND2	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:925:TYR:CD1	2:M:925:TYR:C	2.98	0.41
2:M:1018:GLN:HG2	3:N:87:ARG:HH22	1.86	0.41
2:M:1103:ASP:N	2:M:1107:ASN:O	2.54	0.41
3:N:37:LEU:HD22	3:N:535:PHE:HZ	1.85	0.41
3:N:130:SER:O	3:N:568:ARG:NH2	2.52	0.41
3:N:137:PRO:HD2	3:N:453:ASP:HB2	2.03	0.41
3:N:426:LYS:HD2	9:P:828:HOH:O	2.20	0.41
3:N:436:GLU:HG3	9:N:9929:HOH:O	2.20	0.41
3:N:477:LEU:HA	9:N:9517:HOH:O	2.20	0.41
3:N:1045:MET:HE2	3:N:1073:SER:HB3	2.01	0.41
3:N:1246:VAL:HG11	9:N:2237:HOH:O	2.20	0.41
3:N:1261:GLU:HG3	9:N:9286:HOH:O	2.20	0.41
3:N:1384:PRO:CG	3:N:1389:LEU:HB3	2.51	0.41
5:P:340:SER:O	5:P:342:VAL:N	2.52	0.41
5:P:371:LEU:O	5:P:375:LEU:HB3	2.20	0.41
1:A:44:LEU:O	1:A:174:VAL:HG21	2.19	0.41
1:A:199:ILE:HD12	1:A:199:ILE:N	2.35	0.41
1:B:33:GLY:O	1:B:195:LEU:HD22	2.21	0.41
1:B:89:PHE:CB	1:B:94:LEU:HD13	2.43	0.41
1:B:217:ILE:HG23	1:B:221:HIS:CE1	2.55	0.41
9:B:583:HOH:O	3:D:813:LEU:HD21	2.19	0.41
2:C:333:ILE:O	2:C:465:GLY:HA3	2.20	0.41
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.54	0.41
3:D:135:LEU:HD21	3:D:138:LYS:C	2.45	0.41
3:D:221:ALA:HB3	3:D:367:ILE:CB	2.50	0.41
3:D:530:VAL:N	3:D:534:ARG:O	2.39	0.41
3:D:560:GLN:CG	5:F:218:GLN:HE22	2.33	0.41
3:D:1049:SER:OG	3:D:1050:GLY:N	2.54	0.41
5:F:151:LEU:HB2	5:F:155:THR:H	1.84	0.41
1:K:50:GLY:HA3	1:K:173:PRO:HG3	2.02	0.41
1:K:198:ARG:HH12	2:M:934:PHE:HD1	1.68	0.41
2:M:166:PRO:HD3	2:M:265:ARG:CG	2.50	0.41
2:M:189:ARG:HD2	9:M:2033:HOH:O	2.21	0.41
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.80	0.41
2:M:263:ASP:C	2:M:264:PRO:O	2.63	0.41
2:M:491:GLU:O	2:M:496:ILE:HD11	2.20	0.41
2:M:603:VAL:HG23	2:M:647:GLN:O	2.20	0.41
3:N:513:ILE:HB	9:N:2037:HOH:O	2.20	0.41
3:N:1012:GLU:HG2	3:N:1013:GLU:N	2.35	0.41
3:N:1036:ARG:HH21	3:N:1042:ARG:C	2.28	0.41
3:N:1121:PRO:HB3	9:N:9257:HOH:O	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.36	0.41
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.44	0.41
5:P:179:GLU:O	5:P:182:ALA:HB3	2.20	0.41
5:P:329:TYR:C	5:P:331:ASP:N	2.77	0.41
1:B:28:LEU:HG	1:B:193:ASP:O	2.20	0.41
1:B:101:LEU:HD21	1:B:113:ASP:HB3	2.01	0.41
1:B:223:THR:C	1:B:225:PHE:H	2.28	0.41
2:C:136:ILE:HG23	2:C:391:LEU:CD2	2.51	0.41
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.51	0.41
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.51	0.41
2:C:425:PHE:HB3	9:C:9705:HOH:O	2.19	0.41
2:C:946:ARG:CD	2:C:984:GLU:HB2	2.51	0.41
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.21	0.41
2:C:1021:LEU:HB2	9:C:2027:HOH:O	2.20	0.41
2:C:1090:LYS:HD3	2:C:1090:LYS:HA	1.81	0.41
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.50	0.41
3:D:90:MET:HG2	3:D:521:PRO:HD3	2.03	0.41
3:D:481:MET:O	3:D:489:ARG:HB2	2.20	0.41
3:D:917:GLN:HE22	3:D:921:ARG:CZ	2.33	0.41
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.54	0.41
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.20	0.41
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.84	0.41
5:F:79:ASP:HB3	5:F:80:PRO:HD2	2.01	0.41
5:F:235:PHE:CE2	5:F:239:ALA:HB2	2.55	0.41
1:K:100:LEU:HB3	9:K:1835:HOH:O	2.21	0.41
1:K:182:GLU:HG3	1:K:194:LYS:HD3	2.02	0.41
1:L:29:GLU:C	9:L:1714:HOH:O	2.62	0.41
2:M:191:PHE:HA	9:M:2299:HOH:O	2.21	0.41
2:M:383:ARG:HB2	2:M:383:ARG:HH11	1.84	0.41
2:M:458:TYR:CD2	2:M:470:PRO:HG3	2.56	0.41
2:M:460:ARG:HG3	9:M:1149:HOH:O	2.20	0.41
2:M:598:GLU:HB3	2:M:599:GLU:OE1	2.20	0.41
2:M:611:ILE:HD12	2:M:611:ILE:N	2.36	0.41
2:M:952:LEU:HD22	2:M:952:LEU:N	2.35	0.41
3:N:131:LYS:HG2	3:N:568:ARG:HG2	2.01	0.41
3:N:548:ILE:HG12	9:N:9462:HOH:O	2.20	0.41
3:N:1000:THR:HG22	9:N:9995:HOH:O	2.19	0.41
3:N:1156:LEU:N	9:N:9269:HOH:O	2.53	0.41
1:A:101:LEU:HD21	1:A:113:ASP:HB3	2.02	0.41
1:B:91:ASN:H	1:B:94:LEU:HD12	1.85	0.41
1:B:106:PRO:HG3	1:B:134:GLU:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.50	0.41
2:C:260:LEU:HD23	2:C:261:ILE:HG12	2.01	0.41
2:C:672:VAL:CG2	2:C:869:VAL:HG12	2.51	0.41
2:C:905:ILE:HD12	2:C:905:ILE:N	2.35	0.41
3:D:162:ARG:NH2	3:D:434:ARG:NH2	2.69	0.41
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.21	0.41
3:D:721:VAL:HA	9:D:9555:HOH:O	2.19	0.41
3:D:798:GLU:HB2	3:D:828:LYS:HE2	2.02	0.41
3:D:808:THR:HB	3:D:809:PRO:CD	2.44	0.41
3:D:826:PRO:HD2	3:D:829:VAL:HG22	2.01	0.41
3:D:1220:ALA:HB1	3:D:1223:ILE:CD1	2.42	0.41
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	2.03	0.41
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.51	0.41
5:F:228:GLU:HG3	5:F:230:LYS:HE3	2.03	0.41
5:F:282:LEU:HD12	5:F:284:ARG:O	2.21	0.41
1:K:38:ASN:O	1:K:42:ARG:HG3	2.20	0.41
1:K:48:ILE:CD1	1:K:210:ALA:HB1	2.50	0.41
2:M:11:GLU:HG2	2:M:537:LYS:NZ	2.35	0.41
2:M:184:MET:C	2:M:184:MET:HE2	2.46	0.41
2:M:304:LEU:HD12	2:M:308:ARG:HD3	2.01	0.41
2:M:435:TYR:O	2:M:437:ARG:N	2.54	0.41
2:M:460:ARG:HB3	9:M:1929:HOH:O	2.20	0.41
2:M:720:GLU:HA	2:M:759:THR:O	2.21	0.41
2:M:1024:LYS:HB3	9:M:2236:HOH:O	2.20	0.41
3:N:24:GLY:HA2	9:N:9460:HOH:O	2.20	0.41
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.55	0.41
3:N:528:VAL:HG12	3:N:529:GLN:N	2.35	0.41
3:N:618:LEU:HG	9:N:2300:HOH:O	2.20	0.41
3:N:799:LYS:HE3	9:N:9536:HOH:O	2.19	0.41
3:N:840:LYS:HB3	3:N:841:TYR:CE2	2.56	0.41
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.21	0.41
3:N:988:ARG:CZ	3:N:1054:GLU:OE2	2.69	0.41
3:N:1123:PHE:CA	3:N:1135:ARG:H	2.27	0.41
3:N:1153:VAL:HG12	3:N:1155:VAL:HG22	2.02	0.41
3:N:1376:MET:SD	3:N:1421:LEU:HD13	2.60	0.41
3:N:1468:LEU:O	3:N:1468:LEU:HD23	2.20	0.41
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.88	0.41
4:O:43:GLU:HG2	4:O:44:GLU:N	2.34	0.41
1:A:123:MET:O	1:A:125:PRO:HD3	2.21	0.41
2:C:73:LEU:HB3	2:C:94:LEU:HB2	2.01	0.41
2:C:134:ARG:N	9:C:9111:HOH:O	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.21	0.41
2:C:229:MET:HE3	2:C:229:MET:HA	2.02	0.41
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.47	0.41
2:C:687:ALA:C	2:C:688:ILE:HD12	2.45	0.41
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.50	0.41
3:D:168:THR:O	3:D:393:ILE:N	2.53	0.41
3:D:804:LEU:HD12	3:D:804:LEU:O	2.20	0.41
3:D:829:VAL:HG13	9:D:9705:HOH:O	2.20	0.41
3:D:1357:ARG:HD3	9:D:2093:HOH:O	2.21	0.41
3:D:1392:GLY:C	3:D:1393:GLN:HG2	2.45	0.41
4:E:26:ARG:CZ	4:E:73:LEU:HD21	2.51	0.41
4:E:85:LEU:HD23	4:E:86:GLN:N	2.35	0.41
5:F:279:GLN:HB2	9:F:466:HOH:O	2.21	0.41
5:F:361:LEU:HD13	5:F:366:ALA:HB1	2.02	0.41
1:K:63:HIS:HA	9:K:6181:HOH:O	2.20	0.41
1:K:101:LEU:HD23	1:K:102:LYS:H	1.86	0.41
2:M:1:MET:HE1	9:M:1282:HOH:O	2.20	0.41
2:M:145:GLY:H	2:M:163:ILE:HG13	1.86	0.41
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.55	0.41
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.51	0.41
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.36	0.41
2:M:575:GLN:O	2:M:667:ALA:HB1	2.21	0.41
2:M:585:GLU:O	2:M:588:VAL:HG22	2.20	0.41
2:M:648:ARG:H	2:M:648:ARG:HG2	1.59	0.41
2:M:691:SER:HA	2:M:858:MET:HE3	2.02	0.41
2:M:799:ILE:HD13	2:M:799:ILE:H	1.84	0.41
2:M:833:LEU:CD1	2:M:996:LYS:HD2	2.50	0.41
2:M:1039:ALA:O	2:M:1043:TYR:HD1	2.04	0.41
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.48	0.41
3:N:389:GLU:H	3:N:389:GLU:HG2	1.67	0.41
3:N:596:SER:HA	9:N:2183:HOH:O	2.21	0.41
3:N:1123:PHE:HA	3:N:1134:LEU:CA	2.48	0.41
3:N:1269:LYS:HG3	9:N:9265:HOH:O	2.20	0.41
5:P:105:LYS:HZ1	5:P:179:GLU:HB3	1.86	0.41
5:P:197:SER:O	5:P:200:LYS:HB3	2.20	0.41
5:P:357:ALA:HA	9:P:483:HOH:O	2.20	0.41
5:P:403:LYS:HZ3	5:P:406:ARG:HD2	1.82	0.41
5:P:421:PHE:C	5:P:423:ASP:N	2.79	0.41
1:B:156:HIS:CG	1:B:157:GLY:N	2.88	0.41
2:C:66:LEU:CD2	2:C:372:LEU:HD23	2.46	0.41
2:C:148:PHE:CZ	2:C:281:LEU:HD13	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:237:ARG:CB	9:C:2092:HOH:O	2.67	0.41
2:C:367:LEU:HB3	2:C:371:LYS:CG	2.50	0.41
2:C:405:ARG:NE	2:C:566:THR:HG21	2.35	0.41
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.48	0.41
2:C:432:ARG:HH12	3:D:1047:LYS:CG	2.33	0.41
2:C:507:ARG:CZ	2:C:507:ARG:HB2	2.50	0.41
2:C:546:LEU:HD21	2:C:587:VAL:HG21	2.03	0.41
2:C:564:MET:HE2	2:C:846:LYS:HE2	2.02	0.41
2:C:729:LEU:HD11	9:D:9550:HOH:O	2.20	0.41
2:C:1100:GLN:O	2:C:1102:LEU:HD12	2.21	0.41
2:C:1115:LEU:N	2:C:1115:LEU:CD1	2.82	0.41
3:D:176:ASP:HA	9:D:9636:HOH:O	2.19	0.41
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.50	0.41
3:D:565:ILE:O	3:D:569:ASN:HB2	2.21	0.41
3:D:695:ILE:HG21	3:D:720:LEU:HD11	2.03	0.41
3:D:930:LEU:HD12	3:D:934:LEU:HG	2.02	0.41
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.20	0.41
1:K:58:ILE:HG22	9:K:1296:HOH:O	2.21	0.41
1:L:27:PRO:HG2	1:L:186:LEU:CD1	2.51	0.41
1:L:118:ALA:HB2	9:L:4508:HOH:O	2.20	0.41
2:M:48:PHE:O	2:M:52:PHE:HB2	2.21	0.41
2:M:78:PHE:CB	2:M:88:LEU:HD21	2.51	0.41
2:M:92:ALA:HB2	2:M:120:LEU:CD1	2.50	0.41
2:M:142:ARG:HG3	9:M:1228:HOH:O	2.20	0.41
2:M:249:LYS:HB2	9:M:1514:HOH:O	2.19	0.41
2:M:358:ARG:HD3	9:M:1139:HOH:O	2.21	0.41
2:M:530:GLU:C	2:M:531:PHE:HD1	2.29	0.41
2:M:863:ASP:CG	2:M:865:THR:HG22	2.45	0.41
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.85	0.41
3:N:616:GLN:HE21	3:N:619:LEU:HB2	1.82	0.41
3:N:658:LEU:HD13	3:N:670:VAL:HG13	2.03	0.41
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.35	0.41
3:N:800:LYS:HG2	9:N:9283:HOH:O	2.19	0.41
3:N:806:PHE:O	3:N:807:ALA:C	2.63	0.41
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.21	0.41
3:N:1213:ARG:HD3	9:N:9639:HOH:O	2.20	0.41
3:N:1242:HIS:HE1	3:N:1266:ARG:NH1	2.19	0.41
3:N:1463:LYS:HD3	3:N:1463:LYS:HA	1.85	0.41
3:N:1481:VAL:C	3:N:1483:PHE:N	2.78	0.41
4:O:57:ASP:N	4:O:58:PRO:HD3	2.36	0.41
5:P:87:GLU:O	5:P:91:VAL:HG22	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:PHE:HB3	1:B:227:ASN:O	2.21	0.41
1:A:16:GLN:NE2	1:A:17:GLY:N	2.69	0.41
1:A:24:VAL:HG22	1:A:196:THR:HB	2.03	0.41
2:C:48:PHE:HA	2:C:348:LEU:HD21	2.03	0.41
2:C:110:GLU:HB2	2:C:368:THR:HG22	2.01	0.41
2:C:141:HIS:CB	2:C:418:LEU:HG	2.50	0.41
2:C:146:VAL:HB	9:C:9633:HOH:O	2.21	0.41
2:C:289:THR:O	2:C:291:ALA:N	2.54	0.41
2:C:327:HIS:CE1	2:C:489:THR:HA	2.56	0.41
2:C:476:GLY:C	2:C:478:VAL:H	2.29	0.41
2:C:478:VAL:HG13	2:C:506:ASN:HB3	2.02	0.41
2:C:559:LEU:HD23	2:C:559:LEU:C	2.46	0.41
2:C:674:VAL:O	2:C:989:VAL:HA	2.21	0.41
2:C:714:ASP:N	9:C:9031:HOH:O	2.54	0.41
2:C:721:ARG:O	2:C:759:THR:N	2.54	0.41
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.21	0.41
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.55	0.41
2:C:983:ILE:CG2	2:C:987:ILE:HD11	2.50	0.41
2:C:1097:LEU:H	2:C:1097:LEU:CD2	2.22	0.41
3:D:451:ASP:HB2	9:D:2626:HOH:O	2.20	0.41
3:D:643:GLY:HA2	3:D:719:VAL:HG23	2.03	0.41
3:D:805:GLU:CG	9:D:2490:HOH:O	2.69	0.41
3:D:819:GLY:HA3	9:D:9279:HOH:O	2.21	0.41
3:D:884:ARG:O	3:D:885:ILE:C	2.64	0.41
3:D:964:LEU:HD22	3:D:1058:ARG:NH1	2.35	0.41
3:D:1045:MET:HG2	3:D:1073:SER:CA	2.25	0.41
3:D:1147:ARG:H	3:D:1166:LEU:HD23	1.86	0.41
3:D:1171:VAL:O	3:D:1171:VAL:HG12	2.21	0.41
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.36	0.41
3:D:1496:GLU:OE1	3:D:1500:LYS:HG3	2.20	0.41
5:F:289:GLU:HG2	9:F:440:HOH:O	2.20	0.41
5:F:316:SER:HB3	5:F:318:GLU:O	2.20	0.41
5:F:421:PHE:HD2	9:F:486:HOH:O	2.03	0.41
1:K:27:PRO:HG2	1:K:186:LEU:CD2	2.46	0.41
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.51	0.41
1:K:209:GLU:C	1:K:213:GLN:HE21	2.28	0.41
1:K:229:GLN:HG2	9:K:1527:HOH:O	2.20	0.41
1:L:84:GLU:OE2	3:N:844:ALA:HB1	2.21	0.41
1:L:171:PHE:O	1:L:172:SER:C	2.62	0.41
2:M:18:LEU:HD23	2:M:404:LEU:CD1	2.51	0.41
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:274:ARG:O	2:M:274:ARG:HG2	2.21	0.41
2:M:380:ALA:O	2:M:384:GLU:HB2	2.21	0.41
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.89	0.41
2:M:972:VAL:HA	9:M:2014:HOH:O	2.20	0.41
2:M:1001:VAL:O	2:M:1004:LYS:HB3	2.21	0.41
2:M:1095:LEU:HD23	3:N:582:LEU:CD2	2.51	0.41
3:N:18:ILE:HD12	3:N:518:PRO:HD3	2.03	0.41
3:N:142:LEU:O	3:N:142:LEU:HD12	2.21	0.41
3:N:411:THR:HG21	9:N:2373:HOH:O	2.21	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.94	0.41
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.86	0.41
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.28	0.41
3:N:1432:LYS:H	3:N:1432:LYS:HG3	1.54	0.41
3:N:1462:LEU:N	3:N:1462:LEU:HD23	2.36	0.41
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.46	0.41
5:P:201:LYS:HD3	9:P:693:HOH:O	2.19	0.41
5:P:371:LEU:HB3	5:P:375:LEU:HD22	2.02	0.41
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.82	0.41
1:B:20:TYR:CE2	1:B:198:ARG:HD2	2.56	0.41
1:B:87:VAL:CG2	1:B:144:VAL:HG11	2.39	0.41
1:B:150:TYR:HB2	3:D:855:HIS:CD2	2.56	0.41
2:C:21:ILE:HD12	2:C:21:ILE:N	2.33	0.41
2:C:83:CYS:HA	2:C:88:LEU:CB	2.50	0.41
2:C:135:VAL:HB	2:C:406:HIS:CE1	2.56	0.41
2:C:380:ALA:O	2:C:383:ARG:HG2	2.20	0.41
2:C:435:TYR:O	2:C:437:ARG:N	2.54	0.41
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.02	0.41
2:C:661:SER:N	9:C:9179:HOH:O	2.54	0.41
2:C:847:GLY:HA3	9:C:9481:HOH:O	2.21	0.41
3:D:26:VAL:N	9:D:2403:HOH:O	2.53	0.41
3:D:36:THR:C	3:D:38:LYS:N	2.79	0.41
3:D:116:LEU:HB3	3:D:118:LEU:HD21	2.03	0.41
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.85	0.41
3:D:806:PHE:O	3:D:806:PHE:CD1	2.74	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.03	0.41
4:E:64:ALA:O	4:E:67:GLU:HG3	2.21	0.41
5:F:329:TYR:C	9:F:427:HOH:O	2.64	0.41
2:M:10:ARG:HA	2:M:10:ARG:NH1	2.22	0.41
2:M:51:THR:HG23	9:M:1496:HOH:O	2.21	0.41
2:M:332:ARG:HA	9:M:1427:HOH:O	2.21	0.41
2:M:348:LEU:HD12	2:M:348:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:611:ILE:CD1	2:M:625:LEU:HD11	2.50	0.41
3:N:19:ARG:HH11	3:N:19:ARG:HG3	1.85	0.41
3:N:178:LEU:CD2	3:N:199:LEU:H	2.34	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.74	0.41
3:N:658:LEU:O	3:N:661:MET:HB2	2.20	0.41
3:N:1034:GLN:O	3:N:1035:ILE:C	2.64	0.41
3:N:1404:ASN:ND2	9:N:2499:HOH:O	2.53	0.41
3:N:1406:ARG:HG3	3:N:1406:ARG:HH11	1.86	0.41
5:P:184:ARG:O	5:P:188:ILE:HG13	2.21	0.41
5:P:200:LYS:HE3	9:P:769:HOH:O	2.19	0.41
1:A:114:PHE:HZ	1:A:142:VAL:HG11	1.85	0.40
1:A:206:THR:HG22	1:A:209:GLU:CB	2.49	0.40
1:B:151:VAL:HG22	1:B:155:LYS:HZ1	1.86	0.40
2:C:27:ARG:HA	9:C:9319:HOH:O	2.20	0.40
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.50	0.40
2:C:284:ARG:HD2	2:C:301:GLU:OE1	2.20	0.40
2:C:660:ALA:O	2:C:667:ALA:O	2.39	0.40
2:C:690:ILE:HD13	2:C:691:SER:O	2.21	0.40
2:C:876:VAL:O	2:C:879:ARG:O	2.39	0.40
2:C:958:THR:O	2:C:962:GLN:HG3	2.21	0.40
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	2.02	0.40
3:D:99:ALA:HB1	3:D:575:GLN:OE1	2.21	0.40
3:D:130:SER:C	9:D:9652:HOH:O	2.64	0.40
3:D:155:ASP:HB2	9:D:9396:HOH:O	2.21	0.40
3:D:194:GLY:HA2	9:D:9486:HOH:O	2.21	0.40
3:D:493:ARG:HE	3:D:1388:ARG:CB	2.28	0.40
3:D:564:GLU:HB3	9:D:2249:HOH:O	2.20	0.40
3:D:574:LEU:O	3:D:577:ALA:HB3	2.21	0.40
3:D:616:GLN:C	3:D:618:LEU:H	2.28	0.40
3:D:704:ARG:HE	3:D:705:ALA:N	2.15	0.40
5:F:94:LEU:HD23	5:F:95:THR:N	2.36	0.40
5:F:94:LEU:H	5:F:98:GLU:CD	2.30	0.40
5:F:194:LEU:HD11	9:F:597:HOH:O	2.20	0.40
5:F:249:ARG:HH21	5:F:262:VAL:HG23	1.83	0.40
1:K:85:LEU:HD12	1:K:127:LEU:HD23	2.04	0.40
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.46	0.40
1:K:227:ASN:HA	9:K:1490:HOH:O	2.20	0.40
1:L:191:ASP:OD1	1:L:191:ASP:N	2.54	0.40
1:L:206:THR:HG22	1:L:209:GLU:CG	2.51	0.40
2:M:437:ARG:HG2	2:M:467:ILE:HG22	2.01	0.40
2:M:622:GLU:O	2:M:624:PRO:HD3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:676:ILE:CG2	2:M:988:VAL:HG22	2.51	0.40
2:M:745:ILE:HD12	9:M:1767:HOH:O	2.21	0.40
2:M:835:VAL:HG13	3:N:725:SER:OG	2.21	0.40
2:M:874:LEU:HD21	3:N:787:LEU:HD23	2.03	0.40
2:M:984:GLU:O	3:N:946:GLY:HA3	2.20	0.40
2:M:1020:PRO:HD2	2:M:1057:SER:OG	2.21	0.40
3:N:36:THR:C	3:N:38:LYS:N	2.79	0.40
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.56	0.40
3:N:573:MET:SD	5:P:210:LEU:HD22	2.61	0.40
3:N:868:TYR:CE2	3:N:880:ILE:HD11	2.56	0.40
3:N:925:GLU:OE2	4:O:5:GLY:HA2	2.21	0.40
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.21	0.40
3:N:1102:THR:HG22	3:N:1102:THR:O	2.20	0.40
3:N:1165:TYR:HB2	9:N:2622:HOH:O	2.21	0.40
3:N:1243:THR:HG22	3:N:1244:GLY:N	2.36	0.40
4:O:26:ARG:HH11	4:O:29:GLN:CD	2.28	0.40
5:P:90:GLN:HE21	5:P:90:GLN:HB3	1.61	0.40
5:P:185:GLN:HA	5:P:188:ILE:HD12	2.02	0.40
5:P:291:ILE:HG13	5:P:304:VAL:HG21	2.03	0.40
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.86	0.40
1:A:91:ASN:H	1:A:94:LEU:HD12	1.86	0.40
1:A:136:GLY:HA3	9:A:318:HOH:O	2.20	0.40
1:B:186:LEU:HD21	9:B:532:HOH:O	2.20	0.40
2:C:42:VAL:HA	2:C:46:ALA:HB2	2.03	0.40
2:C:127:PHE:C	9:C:9111:HOH:O	2.63	0.40
2:C:147:TYR:HE2	2:C:280:LYS:HZ2	1.67	0.40
2:C:242:LEU:HD23	2:C:242:LEU:HA	1.89	0.40
2:C:793:PRO:O	2:C:794:PRO:C	2.64	0.40
2:C:816:LYS:HA	9:C:2136:HOH:O	2.22	0.40
2:C:888:THR:OG1	2:C:992:MET:HE3	2.22	0.40
3:D:131:LYS:HG2	3:D:456:MET:HE3	2.03	0.40
3:D:138:LYS:HA	9:D:2484:HOH:O	2.21	0.40
3:D:179:VAL:HB	9:D:9636:HOH:O	2.21	0.40
3:D:588:GLY:N	9:D:2504:HOH:O	2.55	0.40
3:D:1097:LYS:HE3	9:D:9369:HOH:O	2.20	0.40
3:D:1246:VAL:HA	9:D:2113:HOH:O	2.21	0.40
3:D:1264:GLU:CD	3:D:1425:THR:HG22	2.47	0.40
3:D:1310:ARG:HA	9:D:9220:HOH:O	2.22	0.40
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.86	0.40
5:F:301:ALA:N	9:F:468:HOH:O	2.54	0.40
5:F:321:ILE:HD11	5:F:329:TYR:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:THR:HB	1:K:209:GLU:CD	2.45	0.40
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.51	0.40
1:L:46:SER:HB2	9:N:9448:HOH:O	2.20	0.40
1:L:184:THR:CG2	9:L:7412:HOH:O	2.69	0.40
2:M:21:ILE:HD12	2:M:21:ILE:H	1.86	0.40
2:M:147:TYR:HE2	2:M:280:LYS:HD3	1.85	0.40
2:M:172:ILE:HG22	2:M:173:ASP:N	2.35	0.40
2:M:847:GLY:HA2	3:N:741:ASP:HA	2.03	0.40
2:M:996:LYS:HE2	9:M:1267:HOH:O	2.21	0.40
3:N:26:VAL:HG23	9:N:9132:HOH:O	2.21	0.40
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.20	0.40
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.61	0.40
3:N:799:LYS:N	3:N:826:PRO:HG2	2.35	0.40
3:N:1365:ASP:O	3:N:1366:LYS:C	2.63	0.40
1:A:52:ALA:HB2	1:A:170:VAL:O	2.21	0.40
1:B:58:ILE:HD12	1:B:140:MET:CE	2.50	0.40
2:C:35:PRO:HB3	9:C:9710:HOH:O	2.22	0.40
2:C:135:VAL:HG11	2:C:406:HIS:O	2.21	0.40
2:C:272:ALA:N	9:C:9013:HOH:O	2.54	0.40
2:C:565:GLN:CA	2:C:995:MET:HE1	2.52	0.40
2:C:636:ALA:C	2:C:637:LEU:HD23	2.46	0.40
2:C:674:VAL:HG21	2:C:871:LEU:HD12	2.02	0.40
2:C:675:ALA:HA	2:C:989:VAL:CG1	2.45	0.40
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.56	0.40
2:C:984:GLU:CG	3:D:944:THR:HG22	2.51	0.40
3:D:456:MET:HE2	9:D:9437:HOH:O	2.20	0.40
3:D:569:ASN:O	3:D:573:MET:SD	2.80	0.40
3:D:807:ALA:N	9:D:9131:HOH:O	2.54	0.40
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	2.04	0.40
3:D:1282:ARG:HD3	3:D:1295:GLU:OE1	2.20	0.40
3:D:1365:ASP:O	3:D:1366:LYS:C	2.64	0.40
5:F:331:ASP:N	9:F:427:HOH:O	2.52	0.40
1:L:89:PHE:CD2	1:L:146:ARG:NH2	2.89	0.40
2:M:14:PRO:HD2	9:M:2041:HOH:O	2.21	0.40
2:M:84:ARG:HB2	2:M:84:ARG:NH1	2.36	0.40
2:M:334:ARG:NH1	2:M:418:LEU:HD11	2.36	0.40
2:M:980:GLY:HA2	9:M:1302:HOH:O	2.21	0.40
2:M:1051:GLU:HB3	9:M:1321:HOH:O	2.20	0.40
3:N:8:VAL:HG12	3:N:1434:TRP:CH2	2.56	0.40
3:N:61:GLY:HA3	3:N:64:LYS:NZ	2.37	0.40
3:N:83:SER:O	3:N:86:ARG:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:208:PRO:CB	3:N:395:VAL:HG22	2.49	0.40
3:N:385:VAL:C	9:N:2255:HOH:O	2.65	0.40
3:N:408:GLU:H	3:N:408:GLU:HG3	1.64	0.40
3:N:421:LEU:HD12	3:N:444:VAL:HG23	2.04	0.40
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.46	0.40
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.52	0.40
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.21	0.40
3:N:1325:LEU:C	9:N:9173:HOH:O	2.64	0.40
4:O:24:ALA:O	4:O:28:GLN:NE2	2.54	0.40
5:P:113:ILE:HA	5:P:116:LEU:HD12	2.03	0.40
5:P:339:PRO:HB3	5:P:343:ASP:HB2	2.01	0.40
1:A:49:PRO:HA	1:A:148:VAL:HG22	2.02	0.40
1:A:75:VAL:HA	1:A:78:ILE:HD12	2.04	0.40
1:A:103:ALA:HB1	1:A:107:LYS:HD3	2.03	0.40
2:C:15:LEU:HD13	2:C:583:LEU:HD11	2.03	0.40
2:C:57:GLU:O	2:C:62:GLY:HA3	2.21	0.40
2:C:83:CYS:SG	2:C:88:LEU:HD23	2.62	0.40
2:C:474:VAL:HB	2:C:479:VAL:HG12	2.03	0.40
2:C:688:ILE:HD12	2:C:688:ILE:N	2.36	0.40
2:C:876:VAL:HB	2:C:877:PRO:HD3	2.03	0.40
2:C:945:ARG:HB3	9:C:2219:HOH:O	2.22	0.40
3:D:108:VAL:HB	3:D:109:PRO:HD3	2.03	0.40
3:D:493:ARG:NH2	3:D:1388:ARG:HB3	2.36	0.40
3:D:550:ARG:HD3	9:D:9553:HOH:O	2.21	0.40
3:D:729:HIS:ND1	3:D:731:LEU:N	2.67	0.40
3:D:928:ALA:O	3:D:931:LEU:HB2	2.21	0.40
3:D:967:ALA:HB1	3:D:995:LEU:HD11	2.03	0.40
3:D:1465:ASN:ND2	3:D:1470:ARG:HB3	2.36	0.40
4:E:70:THR:HG22	4:E:71:GLY:H	1.85	0.40
4:E:72:ARG:N	9:E:100:HOH:O	2.53	0.40
5:F:130:VAL:HG21	5:F:159:ILE:HG21	2.04	0.40
5:F:154:LYS:O	5:F:158:GLU:HG3	2.22	0.40
5:F:247:ILE:HG22	5:F:251:ILE:HD11	2.03	0.40
5:F:280:GLN:OE1	5:F:281:GLU:HB2	2.22	0.40
5:F:288:TYR:N	5:F:288:TYR:CD1	2.89	0.40
1:L:42:ARG:HG2	1:L:42:ARG:NH1	2.35	0.40
1:L:50:GLY:HA3	1:L:173:PRO:HG3	2.04	0.40
1:L:225:PHE:C	9:L:2322:HOH:O	2.65	0.40
2:M:78:PHE:CD1	2:M:88:LEU:HD21	2.56	0.40
2:M:107:LEU:O	2:M:107:LEU:HG	2.21	0.40
2:M:120:LEU:HB2	9:M:1327:HOH:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:447:ALA:HA	9:M:2111:HOH:O	2.22	0.40
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.52	0.40
2:M:876:VAL:HG11	2:M:885:ILE:HD11	2.02	0.40
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.45	0.40
2:M:1051:GLU:HG2	2:M:1055:LEU:HD12	2.03	0.40
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.22	0.40
3:N:52:PRO:HD2	3:N:79:GLU:O	2.22	0.40
3:N:466:LYS:HE2	9:N:2020:HOH:O	2.22	0.40
3:N:1008:PHE:O	3:N:1012:GLU:HB3	2.21	0.40
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.20	0.40
3:N:1289:LYS:HD3	9:N:9576:HOH:O	2.21	0.40
3:N:1323:GLN:HE21	3:N:1323:GLN:HB2	1.69	0.40
3:N:1364:HIS:CD2	3:N:1366:LYS:HE3	2.56	0.40
3:N:1400:VAL:HG21	9:N:2376:HOH:O	2.21	0.40
1:A:66:SER:HB3	9:A:333:HOH:O	2.21	0.40
1:B:140:MET:HG2	9:B:467:HOH:O	2.21	0.40
2:C:110:GLU:H	2:C:368:THR:HG21	1.86	0.40
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.22	0.40
2:C:232:GLU:O	2:C:235:LEU:HB2	2.22	0.40
2:C:532:MET:N	9:C:9955:HOH:O	2.53	0.40
2:C:632:ASN:ND2	9:C:9837:HOH:O	2.52	0.40
2:C:679:PHE:O	2:C:680:ASP:C	2.64	0.40
2:C:761:PHE:HD2	9:C:9711:HOH:O	2.04	0.40
2:C:878:SER:N	9:C:9546:HOH:O	2.53	0.40
2:C:1007:ALA:HB1	3:D:652:LEU:CD1	2.51	0.40
3:D:32:ILE:HG12	3:D:38:LYS:O	2.22	0.40
3:D:92:HIS:HA	3:D:519:VAL:HG23	2.02	0.40
3:D:106:LYS:NZ	3:D:125:GLN:HB2	2.36	0.40
3:D:165:LYS:HD2	9:D:2397:HOH:O	2.20	0.40
3:D:168:THR:O	3:D:392:SER:HA	2.22	0.40
3:D:208:PRO:CB	3:D:395:VAL:HG22	2.46	0.40
3:D:211:VAL:HG12	9:D:9908:HOH:O	2.21	0.40
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.51	0.40
3:D:660:LYS:HD2	3:D:663:GLU:OE2	2.20	0.40
3:D:675:ARG:HH22	5:F:419:ARG:NH2	2.19	0.40
3:D:965:GLU:HG3	3:D:969:ARG:HH21	1.86	0.40
3:D:1412:LYS:HE3	3:D:1414:PRO:CG	2.51	0.40
3:D:1487:VAL:O	4:E:73:LEU:HD23	2.21	0.40
4:E:54:LEU:HA	4:E:58:PRO:CG	2.51	0.40
5:F:118:GLU:HG2	9:F:503:HOH:O	2.20	0.40
1:K:6:LEU:HD11	9:K:2204:HOH:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:36:LEU:C	1:L:39:PRO:HD2	2.46	0.40
2:M:26:TYR:CZ	2:M:30:LEU:HD21	2.57	0.40
2:M:74:GLY:O	2:M:76:PRO:HD3	2.21	0.40
2:M:93:PRO:HA	9:M:1466:HOH:O	2.20	0.40
2:M:139:GLN:CD	2:M:418:LEU:HD22	2.47	0.40
2:M:400:PRO:O	2:M:401:LEU:C	2.64	0.40
2:M:428:ARG:HD3	2:M:449:ILE:HG23	2.02	0.40
2:M:476:GLY:C	2:M:478:VAL:H	2.29	0.40
2:M:721:ARG:O	2:M:759:THR:N	2.52	0.40
2:M:833:LEU:HD12	2:M:833:LEU:HA	1.93	0.40
2:M:842:ARG:HG3	2:M:995:MET:HE2	2.03	0.40
2:M:1030:GLN:HE22	3:N:628:ARG:NH2	2.07	0.40
2:M:1109:VAL:HG21	3:N:3:LYS:O	2.22	0.40
3:N:2:LYS:N	9:N:2350:HOH:O	2.55	0.40
3:N:27:GLU:H	3:N:27:GLU:HG2	1.69	0.40
3:N:82:LYS:HB3	3:N:83:SER:H	1.48	0.40
3:N:99:ALA:HB1	3:N:575:GLN:CD	2.46	0.40
3:N:135:LEU:HD11	3:N:139:GLY:HA3	2.04	0.40
3:N:470:LEU:HD23	3:N:470:LEU:N	2.36	0.40
3:N:767:HIS:CE1	4:O:2:ALA:HB1	2.57	0.40
3:N:1093:TYR:C	3:N:1093:TYR:CD1	3.00	0.40
3:N:1130:ARG:N	9:N:2064:HOH:O	2.53	0.40
3:N:1258:ARG:HG3	3:N:1262:LEU:CD1	2.51	0.40
3:N:1267:ARG:HG2	9:N:2282:HOH:O	2.21	0.40
4:O:31:LEU:HA	4:O:35:PHE:HD1	1.86	0.40
4:O:39:VAL:CG2	4:O:72:ARG:HG3	2.50	0.40
5:P:393:THR:O	5:P:397:ILE:HG13	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	200 (88%)	22 (10%)	5 (2%)	5	6
1	B	227/315 (72%)	200 (88%)	22 (10%)	5 (2%)	5	6
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	6	9
1	L	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	6	9
2	C	1117/1119 (100%)	927 (83%)	138 (12%)	52 (5%)	2	1
2	M	1117/1119 (100%)	926 (83%)	142 (13%)	49 (4%)	2	1
3	D	1388/1524 (91%)	1155 (83%)	168 (12%)	65 (5%)	2	1
3	N	1388/1524 (91%)	1133 (82%)	187 (14%)	68 (5%)	1	1
4	E	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	2	1
4	O	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	2	1
5	F	341/423 (81%)	290 (85%)	35 (10%)	16 (5%)	2	1
5	P	341/423 (81%)	288 (84%)	38 (11%)	15 (4%)	2	1
All	All	6786/7590 (89%)	5671 (84%)	824 (12%)	291 (4%)	2	1

All (291) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO
2	C	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	290	LEU
2	C	369	PRO
2	C	465	GLY
2	C	548	PRO
2	C	680	ASP
2	C	908	GLY
2	C	1106	ASP
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO

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Mol	Chain	Res	Type
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	381	ALA
3	D	385	VAL
3	D	440	VAL
3	D	504	ASP
3	D	783	ARG
3	D	832	ARG
3	D	1028	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1243	THR
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	329	TYR
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	288	ARG
2	M	290	LEU
2	M	369	PRO
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	680	ASP
2	M	864	GLY
2	M	908	GLY
2	M	1106	ASP
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	82	LYS
3	N	137	PRO

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Mol	Chain	Res	Type
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	381	ALA
3	N	385	VAL
3	N	504	ASP
3	N	783	ARG
3	N	832	ARG
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1243	THR
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO
5	P	390	PHE
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	164	PRO
2	C	170	PRO
2	C	178	PRO
2	C	261	ILE
2	C	262	ALA
2	C	363	SER
2	C	400	PRO
2	C	462	ASP
2	C	517	ARG
2	C	529	VAL
2	C	626	ARG
2	C	864	GLY
2	C	1004	LYS
3	D	96	ALA
3	D	417	PRO
3	D	451	ASP

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Mol	Chain	Res	Type
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	844	ALA
4	E	53	GLY
5	F	232	ARG
5	F	324	GLU
5	F	341	PRO
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	164	PRO
2	M	170	PRO
2	M	178	PRO
2	M	517	ARG
2	M	626	ARG
2	M	1097	LEU
3	N	96	ALA
3	N	417	PRO
3	N	440	VAL
3	N	451	ASP
3	N	594	PRO
3	N	609	GLY
3	N	803	GLY
3	N	822	ALA
3	N	844	ALA
4	O	53	GLY
5	P	232	ARG
5	P	324	GLU
5	P	341	PRO
1	A	187	GLY
2	C	144	PRO
2	C	251	ASP
2	C	268	ASP
2	C	418	LEU
2	C	436	GLY
2	C	727	PRO
2	C	1097	LEU
3	D	31	THR
3	D	34	TYR
3	D	37	LEU
3	D	231	VAL

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Mol	Chain	Res	Type
3	D	416	ALA
3	D	782	SER
3	D	822	ALA
3	D	1385	GLY
5	F	97	GLU
5	F	286	PRO
5	F	325	LYS
5	F	420	ASP
1	K	187	GLY
2	M	251	ASP
2	M	268	ASP
2	M	363	SER
2	M	436	GLY
2	M	529	VAL
2	M	627	ARG
2	M	727	PRO
2	M	1079	PRO
3	N	31	THR
3	N	34	TYR
3	N	37	LEU
3	N	416	ALA
3	N	424	GLY
3	N	705	ALA
3	N	1385	GLY
5	P	286	PRO
5	P	288	TYR
5	P	325	LYS
1	A	106	PRO
1	B	188	GLN
2	C	40	GLU
2	C	74	GLY
2	C	111	ASP
2	C	180	GLY
2	C	292	ARG
2	C	336	VAL
2	C	627	ARG
2	C	1079	PRO
3	D	24	GLY
3	D	170	PRO
3	D	387	LEU
3	D	424	GLY
3	D	522	PRO

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Mol	Chain	Res	Type
3	D	808	THR
3	D	1248	GLY
3	D	1389	LEU
5	F	288	TYR
5	F	297	PRO
5	F	364	ARG
1	K	106	PRO
1	K	188	GLN
2	M	40	GLU
2	M	74	GLY
2	M	180	GLY
2	M	420	ARG
3	N	24	GLY
3	N	170	PRO
3	N	387	LEU
3	N	425	GLY
3	N	782	SER
3	N	808	THR
3	N	1248	GLY
3	N	1388	ARG
5	P	393	THR
5	P	420	ASP
1	A	188	GLN
1	B	106	PRO
2	C	420	ARG
2	C	1024	LYS
3	D	46	ASP
3	D	120	ALA
3	D	425	GLY
3	D	526	PRO
3	D	696	HIS
3	D	705	ALA
3	D	1288	GLU
1	L	106	PRO
1	L	188	GLN
2	M	223	ASP
2	M	282	GLY
2	M	292	ARG
2	M	418	LEU
2	M	457	ALA
2	M	1024	LYS
3	N	46	ASP

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Mol	Chain	Res	Type
3	N	231	VAL
3	N	415	VAL
3	N	522	PRO
3	N	526	PRO
3	N	613	ARG
3	N	1213	ARG
3	N	1286	THR
3	N	1342	GLU
5	P	97	GLU
5	P	297	PRO
5	P	364	ARG
2	C	425	PHE
2	C	447	ALA
2	C	779	GLY
2	C	905	ILE
3	D	533	GLY
3	D	670	VAL
3	D	1213	ARG
2	M	336	VAL
2	M	447	ALA
2	M	779	GLY
3	N	98	PRO
3	N	1197	ARG
3	D	415	VAL
3	D	1064	GLY
5	F	167	PRO
3	N	173	PRO
3	N	1064	GLY
3	N	1306	PRO
3	N	1349	VAL
5	P	167	PRO
2	C	79	PRO
2	C	282	GLY
2	C	767	PRO
3	D	173	PRO
4	E	5	GLY
2	M	400	PRO
2	M	767	PRO
3	N	670	VAL
4	O	5	GLY
1	A	9	PRO
2	C	424	GLY

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Mol	Chain	Res	Type
3	D	595	GLY
3	N	368	VAL
3	N	530	VAL
3	D	136	ASP
3	D	530	VAL
5	F	285	GLU
2	M	79	PRO
2	M	144	PRO
3	N	169	TYR
3	N	595	GLY
3	D	169	TYR
3	D	407	VAL
3	D	1306	PRO
3	D	1349	VAL
3	N	407	VAL
2	M	166	PRO
2	C	166	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	143 (71%)	59 (29%)	0	0
1	B	202/273 (74%)	169 (84%)	33 (16%)	2	3
1	K	202/273 (74%)	152 (75%)	50 (25%)	1	1
1	L	202/273 (74%)	154 (76%)	48 (24%)	1	1
2	C	941/941 (100%)	715 (76%)	226 (24%)	1	1
2	M	941/941 (100%)	722 (77%)	219 (23%)	1	1
3	D	1123/1279 (88%)	829 (74%)	294 (26%)	0	0
3	N	1123/1279 (88%)	813 (72%)	310 (28%)	0	0
4	E	83/87 (95%)	64 (77%)	19 (23%)	1	1
4	O	83/87 (95%)	61 (74%)	22 (26%)	0	0
5	F	295/370 (80%)	222 (75%)	73 (25%)	1	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	P	295/370 (80%)	237 (80%)	58 (20%)	1	2
All	All	5692/6446 (88%)	4281 (75%)	1411 (25%)	1	1

All (1411) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	4	SER
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	13	VAL
1	A	15	THR
1	A	26	GLU
1	A	34	VAL
1	A	40	LEU
1	A	44	LEU
1	A	47	SER
1	A	62	LEU
1	A	71	VAL
1	A	73	GLU
1	A	74	ASP
1	A	84	GLU
1	A	86	VAL
1	A	89	PHE
1	A	92	PRO
1	A	94	LEU
1	A	96	THR
1	A	100	LEU
1	A	101	LEU
1	A	104	GLU
1	A	108	GLU
1	A	115	LEU
1	A	119	ASP
1	A	120	VAL
1	A	121	GLU
1	A	127	LEU
1	A	137	ARG
1	A	139	ASN
1	A	140	MET
1	A	142	VAL
1	A	155	LYS

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Mol	Chain	Res	Type
1	A	159	LYS
1	A	167	VAL
1	A	168	ASP
1	A	170	VAL
1	A	175	ARG
1	A	179	PHE
1	A	180	GLN
1	A	183	ASP
1	A	186	LEU
1	A	188	GLN
1	A	189	ARG
1	A	190	THR
1	A	191	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG
1	A	204	SER
1	A	207	PRO
1	A	211	LEU
1	A	215	VAL
1	A	222	LEU
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	7	LYS
1	B	9	PRO
1	B	25	LEU
1	B	26	GLU
1	B	62	LEU
1	B	65	PHE
1	B	77	GLU
1	B	80	LEU
1	B	81	ASN
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	101	LEU
1	B	109	VAL
1	B	110	LYS
1	B	112	ARG
1	B	119	ASP

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Mol	Chain	Res	Type
1	B	128	HIS
1	B	138	LEU
1	B	140	MET
1	B	159	LYS
1	B	176	ARG
1	B	186	LEU
1	B	190	THR
1	B	193	ASP
1	B	194	LYS
1	B	200	TRP
1	B	208	LEU
1	B	209	GLU
1	B	220	GLU
1	B	224	TYR
2	C	5	ARG
2	C	15	LEU
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	41	ASN
2	C	48	PHE
2	C	65	VAL
2	C	72	ARG
2	C	82	GLU
2	C	88	LEU
2	C	89	THR
2	C	91	GLN
2	C	98	LEU
2	C	100	LEU
2	C	102	HIS
2	C	103	LYS
2	C	104	ASP
2	C	107	LEU
2	C	108	ILE
2	C	110	GLU
2	C	111	ASP
2	C	114	PHE
2	C	115	LEU
2	C	117	HIS

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Mol	Chain	Res	Type
2	C	133	ASP
2	C	140	ILE
2	C	143	SER
2	C	150	PRO
2	C	152	PRO
2	C	158	TYR
2	C	163	ILE
2	C	170	PRO
2	C	172	ILE
2	C	178	PRO
2	C	195	LEU
2	C	198	ARG
2	C	200	LEU
2	C	205	GLU
2	C	209	ARG
2	C	217	LEU
2	C	218	VAL
2	C	221	LEU
2	C	222	MET
2	C	229	MET
2	C	235	LEU
2	C	240	THR
2	C	241	LEU
2	C	250	ARG
2	C	252	LYS
2	C	254	VAL
2	C	260	LEU
2	C	267	TYR
2	C	268	ASP
2	C	275	TYR
2	C	278	GLU
2	C	279	GLU
2	C	281	LEU
2	C	283	ILE
2	C	285	LEU
2	C	286	SER
2	C	288	ARG
2	C	294	GLU
2	C	297	GLU
2	C	303	PHE
2	C	304	LEU
2	C	308	ARG

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Mol	Chain	Res	Type
2	C	309	TYR
2	C	321	GLU
2	C	338	GLU
2	C	343	GLN
2	C	345	ARG
2	C	348	LEU
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	361	MET
2	C	363	SER
2	C	365	ASP
2	C	366	SER
2	C	367	LEU
2	C	371	LYS
2	C	373	VAL
2	C	376	ARG
2	C	379	GLU
2	C	384	GLU
2	C	393	GLN
2	C	396	ASP
2	C	400	PRO
2	C	402	SER
2	C	413	LEU
2	C	420	ARG
2	C	421	GLU
2	C	430	VAL
2	C	432	ARG
2	C	443	THR
2	C	448	ASN
2	C	452	ILE
2	C	454	SER
2	C	469	THR
2	C	474	VAL
2	C	479	VAL
2	C	486	MET
2	C	491	GLU
2	C	494	TYR
2	C	496	ILE
2	C	502	PRO
2	C	503	LEU
2	C	517	ARG

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Mol	Chain	Res	Type
2	C	523	ILE
2	C	524	VAL
2	C	527	GLU
2	C	532	MET
2	C	533	ASP
2	C	543	ASN
2	C	556	ASN
2	C	564	MET
2	C	566	THR
2	C	579	VAL
2	C	583	LEU
2	C	584	GLU
2	C	585	GLU
2	C	589	ARG
2	C	603	VAL
2	C	607	ASP
2	C	620	LEU
2	C	622	GLU
2	C	633	GLN
2	C	640	ARG
2	C	645	VAL
2	C	655	LEU
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	674	VAL
2	C	685	GLU
2	C	690	ILE
2	C	697	ARG
2	C	698	ASP
2	C	701	THR
2	C	703	ILE
2	C	708	TYR
2	C	722	ILE
2	C	724	ARG
2	C	727	PRO
2	C	729	LEU
2	C	743	VAL
2	C	754	ILE
2	C	762	LYS
2	C	771	GLU
2	C	785	VAL

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Mol	Chain	Res	Type
2	C	791	ARG
2	C	799	ILE
2	C	801	VAL
2	C	813	VAL
2	C	814	GLU
2	C	821	GLU
2	C	824	ARG
2	C	829	GLN
2	C	839	LEU
2	C	841	ASN
2	C	849	VAL
2	C	853	LEU
2	C	855	VAL
2	C	861	LEU
2	C	863	ASP
2	C	870	ILE
2	C	881	ASN
2	C	886	LEU
2	C	905	ILE
2	C	907	ASP
2	C	913	GLU
2	C	914	ILE
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	937	ASP
2	C	939	ARG
2	C	940	GLU
2	C	950	LEU
2	C	958	THR
2	C	959	PRO
2	C	960	GLU
2	C	966	LEU
2	C	971	LYS
2	C	974	LEU
2	C	976	ASP
2	C	978	ARG
2	C	981	GLU
2	C	988	VAL
2	C	989	VAL
2	C	995	MET
2	C	1002	GLU

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Mol	Chain	Res	Type
2	C	1006	HIS
2	C	1008	ARG
2	C	1016	ILE
2	C	1019	GLN
2	C	1020	PRO
2	C	1021	LEU
2	C	1026	GLN
2	C	1034	GLU
2	C	1035	MET
2	C	1040	LEU
2	C	1052	MET
2	C	1054	THR
2	C	1060	ILE
2	C	1061	GLU
2	C	1076	VAL
2	C	1083	GLU
2	C	1084	SER
2	C	1085	PHE
2	C	1087	VAL
2	C	1088	LEU
2	C	1091	GLU
2	C	1092	LEU
2	C	1097	LEU
2	C	1098	ASP
2	C	1099	VAL
2	C	1107	ASN
2	C	1109	VAL
2	C	1111	ILE
2	C	1113	GLU
2	C	1115	LEU
3	D	3	LYS
3	D	4	GLU
3	D	6	ARG
3	D	7	LYS
3	D	9	ARG
3	D	12	LEU
3	D	14	SER
3	D	17	LYS
3	D	20	SER
3	D	27	GLU
3	D	29	PRO
3	D	32	ILE

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Mol	Chain	Res	Type
3	D	33	ASN
3	D	35	ARG
3	D	40	GLU
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	56	TYR
3	D	58	CYS
3	D	62	LYS
3	D	63	TYR
3	D	68	PHE
3	D	74	GLU
3	D	79	GLU
3	D	80	VAL
3	D	84	ILE
3	D	85	VAL
3	D	102	ILE
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	118	LEU
3	D	133	ILE
3	D	142	LEU
3	D	145	VAL
3	D	147	VAL
3	D	149	LYS
3	D	150	ARG
3	D	153	LEU
3	D	154	THR
3	D	155	ASP
3	D	156	GLU
3	D	161	LEU
3	D	162	ARG
3	D	166	GLN
3	D	167	GLU
3	D	170	PRO
3	D	171	LEU
3	D	172	PRO
3	D	175	VAL
3	D	185	VAL
3	D	199	LEU

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Mol	Chain	Res	Type
3	D	204	LEU
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	210	ARG
3	D	211	VAL
3	D	394	LEU
3	D	395	VAL
3	D	404	GLU
3	D	410	SER
3	D	411	THR
3	D	413	ASP
3	D	419	ASP
3	D	420	VAL
3	D	427	VAL
3	D	430	ASP
3	D	432	TYR
3	D	444	VAL
3	D	447	VAL
3	D	448	GLU
3	D	450	TYR
3	D	452	ILE
3	D	456	MET
3	D	459	GLU
3	D	465	LEU
3	D	466	LYS
3	D	475	LYS
3	D	479	GLU
3	D	481	MET
3	D	483	HIS
3	D	488	ARG
3	D	491	LYS
3	D	497	GLU
3	D	498	VAL
3	D	503	LEU
3	D	510	GLU
3	D	513	ILE
3	D	521	PRO
3	D	528	VAL
3	D	529	GLN
3	D	531	ASP

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Mol	Chain	Res	Type
3	D	538	SER
3	D	540	LEU
3	D	554	LEU
3	D	560	GLN
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	590	PRO
3	D	591	VAL
3	D	593	ASN
3	D	594	PRO
3	D	597	ASP
3	D	598	ARG
3	D	601	ARG
3	D	607	LEU
3	D	613	ARG
3	D	614	PHE
3	D	615	ARG
3	D	617	ASN
3	D	619	LEU
3	D	636	GLN
3	D	638	LYS
3	D	639	LEU
3	D	640	HIS
3	D	641	GLN
3	D	651	GLU
3	D	656	PHE
3	D	659	LYS
3	D	662	GLU
3	D	675	ARG
3	D	676	MET
3	D	681	ARG
3	D	682	ASP
3	D	688	TRP
3	D	695	ILE
3	D	702	LEU
3	D	704	ARG
3	D	707	THR
3	D	709	HIS
3	D	710	ARG
3	D	716	PHE
3	D	719	VAL

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Mol	Chain	Res	Type
3	D	724	GLN
3	D	726	ILE
3	D	734	GLU
3	D	739	ASP
3	D	743	ASP
3	D	749	VAL
3	D	752	SER
3	D	754	PHE
3	D	762	GLN
3	D	783	ARG
3	D	794	GLN
3	D	796	ARG
3	D	797	LYS
3	D	800	LYS
3	D	804	LEU
3	D	805	GLU
3	D	810	GLU
3	D	813	LEU
3	D	824	ASN
3	D	828	LYS
3	D	829	VAL
3	D	832	ARG
3	D	833	GLU
3	D	836	VAL
3	D	839	LEU
3	D	847	ASP
3	D	850	LEU
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	864	VAL
3	D	867	ARG
3	D	873	LEU
3	D	879	ARG
3	D	880	ILE
3	D	886	VAL
3	D	897	TRP
3	D	898	GLU
3	D	901	GLN
3	D	904	VAL
3	D	907	GLU
3	D	910	SER

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Mol	Chain	Res	Type
3	D	914	LEU
3	D	915	VAL
3	D	917	GLN
3	D	920	LEU
3	D	922	LEU
3	D	929	ARG
3	D	930	LEU
3	D	951	ILE
3	D	956	ILE
3	D	959	GLU
3	D	961	LYS
3	D	987	GLU
3	D	988	ARG
3	D	1001	GLU
3	D	1013	GLU
3	D	1021	TYR
3	D	1029	ARG
3	D	1032	PRO
3	D	1042	ARG
3	D	1049	SER
3	D	1051	GLU
3	D	1052	THR
3	D	1058	ARG
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1087	ARG
3	D	1097	LYS
3	D	1099	VAL
3	D	1101	VAL
3	D	1104	GLU
3	D	1109	GLU
3	D	1111	ASP
3	D	1112	CYS
3	D	1116	ASN
3	D	1127	GLU
3	D	1132	LEU
3	D	1139	ASP
3	D	1144	LEU
3	D	1154	GLU
3	D	1161	GLU
3	D	1164	ARG

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Mol	Chain	Res	Type
3	D	1173	LEU
3	D	1176	LYS
3	D	1183	ILE
3	D	1190	SER
3	D	1191	PRO
3	D	1207	TYR
3	D	1215	VAL
3	D	1223	ILE
3	D	1228	SER
3	D	1231	GLU
3	D	1234	THR
3	D	1236	LEU
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR
3	D	1251	ASP
3	D	1258	ARG
3	D	1259	VAL
3	D	1260	ILE
3	D	1262	LEU
3	D	1264	GLU
3	D	1266	ARG
3	D	1267	ARG
3	D	1269	LYS
3	D	1271	LYS
3	D	1274	ILE
3	D	1277	ILE
3	D	1280	VAL
3	D	1288	GLU
3	D	1295	GLU
3	D	1299	PHE
3	D	1302	GLU
3	D	1307	LYS
3	D	1310	ARG
3	D	1311	LEU
3	D	1314	LYS
3	D	1320	GLU
3	D	1335	LEU
3	D	1344	VAL
3	D	1346	ARG
3	D	1348	LEU
3	D	1353	GLN

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Mol	Chain	Res	Type
3	D	1363	LEU
3	D	1368	ILE
3	D	1372	VAL
3	D	1377	LYS
3	D	1382	THR
3	D	1389	LEU
3	D	1395	LEU
3	D	1401	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1420	LEU
3	D	1424	VAL
3	D	1432	LYS
3	D	1435	LEU
3	D	1440	PHE
3	D	1444	THR
3	D	1449	GLU
3	D	1455	LYS
3	D	1456	LYS
3	D	1460	ILE
3	D	1462	LEU
3	D	1463	LYS
3	D	1465	ASN
3	D	1466	VAL
3	D	1467	ILE
3	D	1480	PHE
3	D	1481	VAL
3	D	1485	GLN
3	D	1488	ASP
3	D	1496	GLU
4	E	6	ILE
4	E	7	ASP
4	E	14	ASP
4	E	23	VAL
4	E	28	GLN
4	E	30	LEU
4	E	31	LEU
4	E	40	LEU
4	E	42	PRO
4	E	43	GLU
4	E	45	ARG
4	E	51	LEU

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Mol	Chain	Res	Type
4	E	52	GLU
4	E	61	GLU
4	E	66	LYS
4	E	67	GLU
4	E	77	GLU
4	E	81	PRO
4	E	89	MET
5	F	76	SER
5	F	78	SER
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	93	LEU
5	F	97	GLU
5	F	101	GLU
5	F	123	ASP
5	F	125	ASP
5	F	130	VAL
5	F	132	ARG
5	F	134	LYS
5	F	135	ILE
5	F	142	ARG
5	F	147	LEU
5	F	149	GLU
5	F	150	THR
5	F	164	LYS
5	F	168	LYS
5	F	170	HIS
5	F	174	LEU
5	F	176	ILE
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	194	LEU
5	F	207	LEU
5	F	220	LEU
5	F	228	GLU
5	F	229	TYR
5	F	233	PHE
5	F	240	THR
5	F	245	GLN
5	F	249	ARG

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Mol	Chain	Res	Type
5	F	260	ILE
5	F	262	VAL
5	F	266	GLU
5	F	280	GLN
5	F	282	LEU
5	F	284	ARG
5	F	286	PRO
5	F	288	TYR
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	308	LEU
5	F	312	GLN
5	F	313	GLU
5	F	315	VAL
5	F	316	SER
5	F	328	PHE
5	F	329	TYR
5	F	336	GLU
5	F	341	PRO
5	F	342	VAL
5	F	343	ASP
5	F	347	GLN
5	F	348	SER
5	F	349	LEU
5	F	351	SER
5	F	364	ARG
5	F	365	GLU
5	F	370	LYS
5	F	399	GLN
5	F	403	LYS
5	F	405	LEU
5	F	408	LEU
5	F	410	TYR
5	F	414	ARG
5	F	419	ARG
5	F	420	ASP
5	F	422	LEU
1	K	1	MET
1	K	5	LYS
1	K	9	PRO
1	K	12	THR

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Mol	Chain	Res	Type
1	K	15	THR
1	K	16	GLN
1	K	25	LEU
1	K	26	GLU
1	K	43	ILE
1	K	44	LEU
1	K	45	LEU
1	K	55	SER
1	K	64	GLU
1	K	66	SER
1	K	67	THR
1	K	73	GLU
1	K	76	VAL
1	K	80	LEU
1	K	86	VAL
1	K	88	ARG
1	K	89	PHE
1	K	92	PRO
1	K	99	LEU
1	K	107	LYS
1	K	112	ARG
1	K	113	ASP
1	K	115	LEU
1	K	126	ASP
1	K	127	LEU
1	K	142	VAL
1	K	143	ARG
1	K	145	ASP
1	K	146	ARG
1	K	148	VAL
1	K	159	LYS
1	K	180	GLN
1	K	184	THR
1	K	185	ARG
1	K	186	LEU
1	K	196	THR
1	K	197	LEU
1	K	198	ARG
1	K	201	THR
1	K	206	THR
1	K	211	LEU
1	K	216	GLU

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Mol	Chain	Res	Type
1	K	219	ARG
1	K	222	LEU
1	K	227	ASN
1	K	229	GLN
1	L	5	LYS
1	L	7	LYS
1	L	16	GLN
1	L	19	GLU
1	L	25	LEU
1	L	29	GLU
1	L	38	ASN
1	L	41	ARG
1	L	46	SER
1	L	47	SER
1	L	51	THR
1	L	55	SER
1	L	65	PHE
1	L	66	SER
1	L	67	THR
1	L	73	GLU
1	L	84	GLU
1	L	89	PHE
1	L	91	ASN
1	L	92	PRO
1	L	93	SER
1	L	95	GLN
1	L	96	THR
1	L	101	LEU
1	L	104	GLU
1	L	110	LYS
1	L	115	LEU
1	L	120	VAL
1	L	121	GLU
1	L	126	ASP
1	L	138	LEU
1	L	140	MET
1	L	145	ASP
1	L	151	VAL
1	L	159	LYS
1	L	161	ARG
1	L	163	ASN
1	L	167	VAL

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Mol	Chain	Res	Type
1	L	182	GLU
1	L	185	ARG
1	L	188	GLN
1	L	190	THR
1	L	204	SER
1	L	205	VAL
1	L	206	THR
1	L	208	LEU
1	L	216	GLU
1	L	220	GLU
2	M	5	ARG
2	M	9	ILE
2	M	10	ARG
2	M	15	LEU
2	M	20	GLU
2	M	22	GLN
2	M	27	ARG
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL
2	M	39	ARG
2	M	41	ASN
2	M	42	VAL
2	M	48	PHE
2	M	51	THR
2	M	58	ASP
2	M	64	LEU
2	M	75	GLU
2	M	82	GLU
2	M	89	THR
2	M	91	GLN
2	M	95	TYR
2	M	100	LEU
2	M	103	LYS
2	M	107	LEU
2	M	108	ILE
2	M	110	GLU
2	M	111	ASP
2	M	113	VAL
2	M	115	LEU
2	M	117	HIS
2	M	118	ILE

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Mol	Chain	Res	Type
2	M	126	SER
2	M	133	ASP
2	M	134	ARG
2	M	140	ILE
2	M	143	SER
2	M	144	PRO
2	M	149	THR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	165	LEU
2	M	173	ASP
2	M	182	VAL
2	M	184	MET
2	M	192	PRO
2	M	194	VAL
2	M	209	ARG
2	M	218	VAL
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	233	GLU
2	M	235	LEU
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU
2	M	242	LEU
2	M	243	ARG
2	M	249	LYS
2	M	252	LYS
2	M	254	VAL
2	M	267	TYR
2	M	279	GLU
2	M	285	LEU
2	M	288	ARG
2	M	289	THR
2	M	290	LEU
2	M	293	PHE
2	M	295	ASP
2	M	303	PHE
2	M	304	LEU

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Mol	Chain	Res	Type
2	M	308	ARG
2	M	309	TYR
2	M	320	HIS
2	M	321	GLU
2	M	323	ASP
2	M	327	HIS
2	M	341	THR
2	M	343	GLN
2	M	359	MET
2	M	367	LEU
2	M	371	LYS
2	M	374	ASN
2	M	379	GLU
2	M	383	ARG
2	M	393	GLN
2	M	397	GLU
2	M	398	THR
2	M	399	ASN
2	M	400	PRO
2	M	413	LEU
2	M	420	ARG
2	M	426	ASP
2	M	427	VAL
2	M	439	CYS
2	M	443	THR
2	M	451	LEU
2	M	454	SER
2	M	455	LEU
2	M	460	ARG
2	M	468	ARG
2	M	469	THR
2	M	474	VAL
2	M	479	VAL
2	M	481	ASP
2	M	482	GLU
2	M	502	PRO
2	M	503	LEU
2	M	508	ILE
2	M	527	GLU
2	M	551	GLU
2	M	554	ASP
2	M	562	SER

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Mol	Chain	Res	Type
2	M	563	ASN
2	M	564	MET
2	M	571	LEU
2	M	581	THR
2	M	583	LEU
2	M	584	GLU
2	M	589	ARG
2	M	603	VAL
2	M	605	LYS
2	M	606	VAL
2	M	607	ASP
2	M	620	LEU
2	M	626	ARG
2	M	627	ARG
2	M	630	ARG
2	M	637	LEU
2	M	639	GLN
2	M	640	ARG
2	M	645	VAL
2	M	650	ARG
2	M	653	ASP
2	M	657	ASP
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	674	VAL
2	M	680	ASP
2	M	685	GLU
2	M	689	VAL
2	M	697	ARG
2	M	699	PHE
2	M	701	THR
2	M	714	ASP
2	M	715	THR
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	748	GLU
2	M	749	VAL
2	M	768	THR
2	M	784	ASP
2	M	785	VAL

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Mol	Chain	Res	Type
2	M	791	ARG
2	M	799	ILE
2	M	801	VAL
2	M	805	ARG
2	M	807	ARG
2	M	808	ARG
2	M	814	GLU
2	M	821	GLU
2	M	835	VAL
2	M	839	LEU
2	M	841	ASN
2	M	848	VAL
2	M	861	LEU
2	M	869	VAL
2	M	870	ILE
2	M	881	ASN
2	M	882	LEU
2	M	886	LEU
2	M	897	LEU
2	M	902	ILE
2	M	907	ASP
2	M	910	LYS
2	M	911	GLU
2	M	923	GLU
2	M	925	TYR
2	M	937	ASP
2	M	941	VAL
2	M	946	ARG
2	M	950	LEU
2	M	959	PRO
2	M	972	VAL
2	M	975	TYR
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1000	MET
2	M	1002	GLU
2	M	1016	ILE
2	M	1017	THR
2	M	1021	LEU
2	M	1035	MET
2	M	1040	LEU

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Mol	Chain	Res	Type
2	M	1050	GLN
2	M	1058	ASP
2	M	1060	ILE
2	M	1061	GLU
2	M	1072	LYS
2	M	1076	VAL
2	M	1079	PRO
2	M	1088	LEU
2	M	1091	GLU
2	M	1092	LEU
2	M	1097	LEU
2	M	1098	ASP
2	M	1100	GLN
2	M	1104	GLU
2	M	1107	ASN
2	M	1109	VAL
2	M	1111	ILE
2	M	1118	LYS
2	M	1119	ARG
3	N	6	ARG
3	N	7	LYS
3	N	12	LEU
3	N	15	PRO
3	N	17	LYS
3	N	20	SER
3	N	32	ILE
3	N	34	TYR
3	N	47	GLU
3	N	49	ILE
3	N	52	PRO
3	N	54	LYS
3	N	56	TYR
3	N	62	LYS
3	N	64	LYS
3	N	68	PHE
3	N	69	GLU
3	N	71	LYS
3	N	74	GLU
3	N	76	CYS
3	N	79	GLU
3	N	80	VAL
3	N	82	LYS

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Mol	Chain	Res	Type
3	N	85	VAL
3	N	86	ARG
3	N	87	ARG
3	N	95	LEU
3	N	112	ILE
3	N	117	ASP
3	N	119	SER
3	N	122	GLU
3	N	123	LEU
3	N	128	TYR
3	N	145	VAL
3	N	147	VAL
3	N	150	ARG
3	N	151	GLN
3	N	152	LEU
3	N	153	LEU
3	N	156	GLU
3	N	160	GLU
3	N	162	ARG
3	N	165	LYS
3	N	166	GLN
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	176	ASP
3	N	183	GLU
3	N	185	VAL
3	N	190	GLU
3	N	199	LEU
3	N	204	LEU
3	N	206	ARG
3	N	208	PRO
3	N	211	VAL
3	N	389	GLU
3	N	393	ILE
3	N	394	LEU
3	N	395	VAL
3	N	401	TYR
3	N	404	GLU
3	N	405	ASP
3	N	408	GLU
3	N	411	THR

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Mol	Chain	Res	Type
3	N	419	ASP
3	N	420	VAL
3	N	421	LEU
3	N	427	VAL
3	N	430	ASP
3	N	432	TYR
3	N	434	ARG
3	N	444	VAL
3	N	445	ARG
3	N	447	VAL
3	N	448	GLU
3	N	452	ILE
3	N	456	MET
3	N	459	GLU
3	N	465	LEU
3	N	470	LEU
3	N	475	LYS
3	N	481	MET
3	N	483	HIS
3	N	486	ARG
3	N	493	ARG
3	N	502	PHE
3	N	505	SER
3	N	513	ILE
3	N	521	PRO
3	N	530	VAL
3	N	531	ASP
3	N	537	THR
3	N	542	ASP
3	N	543	LEU
3	N	549	ASN
3	N	565	ILE
3	N	571	LYS
3	N	576	GLU
3	N	581	LEU
3	N	586	ARG
3	N	590	PRO
3	N	591	VAL
3	N	593	ASN
3	N	594	PRO
3	N	597	ASP
3	N	598	ARG

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Mol	Chain	Res	Type
3	N	600	LEU
3	N	601	ARG
3	N	607	LEU
3	N	611	GLN
3	N	614	PHE
3	N	616	GLN
3	N	617	ASN
3	N	619	LEU
3	N	623	VAL
3	N	624	ASP
3	N	629	SER
3	N	631	ILE
3	N	632	VAL
3	N	637	LEU
3	N	639	LEU
3	N	641	GLN
3	N	648	MET
3	N	651	GLU
3	N	652	LEU
3	N	660	LYS
3	N	666	ILE
3	N	671	LYS
3	N	675	ARG
3	N	676	MET
3	N	678	GLU
3	N	681	ARG
3	N	684	LYS
3	N	686	GLU
3	N	695	ILE
3	N	702	LEU
3	N	727	GLN
3	N	741	ASP
3	N	749	VAL
3	N	754	PHE
3	N	765	SER
3	N	770	LEU
3	N	778	LEU
3	N	780	LYS
3	N	781	PRO
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN

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Mol	Chain	Res	Type
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	805	GLU
3	N	808	THR
3	N	811	GLU
3	N	828	LYS
3	N	829	VAL
3	N	838	ARG
3	N	839	LEU
3	N	840	LYS
3	N	842	VAL
3	N	847	ASP
3	N	851	LEU
3	N	858	VAL
3	N	862	ASP
3	N	863	VAL
3	N	864	VAL
3	N	865	THR
3	N	866	VAL
3	N	869	MET
3	N	875	THR
3	N	876	SER
3	N	879	ARG
3	N	880	ILE
3	N	888	GLU
3	N	891	GLU
3	N	893	GLU
3	N	901	GLN
3	N	910	SER
3	N	917	GLN
3	N	921	ARG
3	N	944	THR
3	N	947	ILE
3	N	948	THR
3	N	951	ILE
3	N	952	ASP
3	N	959	GLU
3	N	972	LEU
3	N	980	MET
3	N	985	ASP
3	N	988	ARG

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Mol	Chain	Res	Type
3	N	994	GLN
3	N	999	THR
3	N	1000	THR
3	N	1005	GLN
3	N	1012	GLU
3	N	1019	PRO
3	N	1038	LEU
3	N	1039	CYS
3	N	1042	ARG
3	N	1045	MET
3	N	1051	GLU
3	N	1052	THR
3	N	1059	SER
3	N	1062	ARG
3	N	1068	LEU
3	N	1079	LYS
3	N	1083	ASP
3	N	1084	THR
3	N	1093	TYR
3	N	1095	THR
3	N	1096	ARG
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1116	ASN
3	N	1124	GLN
3	N	1128	VAL
3	N	1129	THR
3	N	1133	ARG
3	N	1141	GLU
3	N	1144	LEU
3	N	1159	ARG
3	N	1161	GLU
3	N	1162	GLU
3	N	1166	LEU
3	N	1173	LEU
3	N	1182	GLU
3	N	1183	ILE
3	N	1186	VAL
3	N	1189	ARG
3	N	1195	GLN
3	N	1196	THR

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Mol	Chain	Res	Type
3	N	1202	GLN
3	N	1207	TYR
3	N	1208	ASP
3	N	1210	SER
3	N	1211	MET
3	N	1221	VAL
3	N	1231	GLU
3	N	1235	GLN
3	N	1238	MET
3	N	1243	THR
3	N	1252	ILE
3	N	1254	GLN
3	N	1258	ARG
3	N	1260	ILE
3	N	1261	GLU
3	N	1264	GLU
3	N	1267	ARG
3	N	1274	ILE
3	N	1275	SER
3	N	1278	ASP
3	N	1280	VAL
3	N	1285	GLU
3	N	1286	THR
3	N	1287	GLU
3	N	1299	PHE
3	N	1300	SER
3	N	1301	LYS
3	N	1312	LEU
3	N	1313	VAL
3	N	1314	LYS
3	N	1334	GLN
3	N	1337	GLU
3	N	1344	VAL
3	N	1353	GLN
3	N	1355	VAL
3	N	1359	GLN
3	N	1363	LEU
3	N	1368	ILE
3	N	1380	GLU
3	N	1382	THR
3	N	1383	ASP
3	N	1387	SER

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Mol	Chain	Res	Type
3	N	1388	ARG
3	N	1391	GLU
3	N	1396	GLU
3	N	1401	GLU
3	N	1403	LEU
3	N	1404	ASN
3	N	1407	LEU
3	N	1419	PRO
3	N	1420	LEU
3	N	1424	VAL
3	N	1432	LYS
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1442	ASN
3	N	1444	THR
3	N	1447	LEU
3	N	1452	ILE
3	N	1455	LYS
3	N	1456	LYS
3	N	1460	ILE
3	N	1462	LEU
3	N	1463	LYS
3	N	1464	GLU
3	N	1465	ASN
3	N	1466	VAL
3	N	1470	ARG
3	N	1478	SER
3	N	1481	VAL
3	N	1485	GLN
3	N	1486	VAL
3	N	1487	VAL
3	N	1488	ASP
3	N	1496	GLU
3	N	1501	GLU
4	O	12	MET
4	O	13	VAL
4	O	19	LEU
4	O	21	VAL
4	O	28	GLN
4	O	29	GLN
4	O	36	LYS

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Mol	Chain	Res	Type
4	O	40	LEU
4	O	42	PRO
4	O	45	ARG
4	O	51	LEU
4	O	52	GLU
4	O	54	LEU
4	O	57	ASP
4	O	61	GLU
4	O	66	LYS
4	O	70	THR
4	O	72	ARG
4	O	77	GLU
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
5	P	75	ILE
5	P	77	THR
5	P	83	GLN
5	P	84	TYR
5	P	85	LEU
5	P	94	LEU
5	P	119	ILE
5	P	125	ASP
5	P	135	ILE
5	P	142	ARG
5	P	145	PRO
5	P	148	LYS
5	P	150	THR
5	P	165	SER
5	P	174	LEU
5	P	181	GLU
5	P	187	LEU
5	P	192	LEU
5	P	220	LEU
5	P	221	ILE
5	P	225	GLU
5	P	228	GLU
5	P	245	GLN
5	P	259	ARG
5	P	262	VAL
5	P	266	GLU
5	P	269	ASN

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Mol	Chain	Res	Type
5	P	277	GLN
5	P	285	GLU
5	P	295	MET
5	P	300	ASP
5	P	302	LYS
5	P	306	GLU
5	P	307	THR
5	P	309	LYS
5	P	318	GLU
5	P	328	PHE
5	P	335	ASP
5	P	336	GLU
5	P	337	HIS
5	P	347	GLN
5	P	348	SER
5	P	349	LEU
5	P	350	LEU
5	P	353	GLU
5	P	358	LEU
5	P	360	LYS
5	P	361	LEU
5	P	367	MET
5	P	370	LYS
5	P	375	LEU
5	P	392	VAL
5	P	399	GLN
5	P	401	GLU
5	P	403	LYS
5	P	408	LEU
5	P	415	THR
5	P	419	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (182) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN

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Mol	Chain	Res	Type
1	A	212	ASN
1	A	213	GLN
1	A	227	ASN
1	A	229	GLN
1	B	38	ASN
1	B	63	HIS
1	B	163	ASN
1	B	188	GLN
1	B	227	ASN
2	C	22	GLN
2	C	41	ASN
2	C	99	GLN
2	C	117	HIS
2	C	130	ASN
2	C	179	ASN
2	C	204	GLN
2	C	219	GLN
2	C	320	HIS
2	C	343	GLN
2	C	374	ASN
2	C	390	GLN
2	C	393	GLN
2	C	399	ASN
2	C	506	ASN
2	C	538	GLN
2	C	563	ASN
2	C	567	GLN
2	C	575	GLN
2	C	609	ASN
2	C	633	GLN
2	C	639	GLN
2	C	663	ASN
2	C	670	GLN
2	C	834	GLN
2	C	841	ASN
2	C	843	HIS
2	C	845	ASN
2	C	860	HIS
2	C	881	ASN
2	C	889	HIS
2	C	899	GLN
2	C	991	GLN

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Mol	Chain	Res	Type
2	C	1018	GLN
2	C	1019	GLN
2	C	1107	ASN
3	D	33	ASN
3	D	166	GLN
3	D	549	ASN
3	D	593	ASN
3	D	616	GLN
3	D	617	ASN
3	D	703	ASN
3	D	724	GLN
3	D	756	GLN
3	D	768	ASN
3	D	824	ASN
3	D	855	HIS
3	D	917	GLN
3	D	973	GLN
3	D	976	GLN
3	D	994	GLN
3	D	1031	ASN
3	D	1033	GLN
3	D	1075	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1172	HIS
3	D	1184	GLN
3	D	1323	GLN
3	D	1333	HIS
3	D	1334	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1441	GLN
3	D	1465	ASN
3	D	1489	GLN
4	E	28	GLN
4	E	33	HIS
4	E	37	ASN
4	E	59	ASN
4	E	86	GLN
5	F	90	GLN
5	F	161	GLN

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Mol	Chain	Res	Type
5	F	186	HIS
5	F	217	ASN
5	F	218	GLN
5	F	269	ASN
5	F	312	GLN
5	F	402	ASN
1	K	63	HIS
1	K	81	ASN
1	K	156	HIS
1	K	163	ASN
1	K	180	GLN
1	K	213	GLN
1	K	221	HIS
1	K	227	ASN
1	K	229	GLN
1	L	16	GLN
1	L	91	ASN
2	M	22	GLN
2	M	41	ASN
2	M	102	HIS
2	M	117	HIS
2	M	130	ASN
2	M	139	GLN
2	M	327	HIS
2	M	374	ASN
2	M	434	HIS
2	M	448	ASN
2	M	538	GLN
2	M	543	ASN
2	M	545	ASN
2	M	552	HIS
2	M	563	ASN
2	M	565	GLN
2	M	632	ASN
2	M	633	GLN
2	M	663	ASN
2	M	670	GLN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	881	ASN
2	M	899	GLN

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Mol	Chain	Res	Type
2	M	962	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1030	GLN
2	M	1047	HIS
3	N	33	ASN
3	N	166	GLN
3	N	442	ASN
3	N	507	ASN
3	N	549	ASN
3	N	552	ASN
3	N	560	GLN
3	N	569	ASN
3	N	616	GLN
3	N	617	ASN
3	N	703	ASN
3	N	717	GLN
3	N	724	GLN
3	N	727	GLN
3	N	756	GLN
3	N	794	GLN
3	N	855	HIS
3	N	901	GLN
3	N	909	ASN
3	N	976	GLN
3	N	1031	ASN
3	N	1033	GLN
3	N	1034	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1124	GLN
3	N	1334	GLN
3	N	1359	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	29	GLN
4	O	33	HIS
4	O	59	ASN
4	O	86	GLN
5	P	90	GLN

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Mol	Chain	Res	Type
5	P	191	ASN
5	P	218	GLN
5	P	248	ASN
5	P	254	GLN
5	P	269	ASN
5	P	279	GLN
5	P	399	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 10 ligands modelled in this entry, 8 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
8	TGT	D	9001	6	23,27,27	4.37	19 (82%)	24,44,44	2.56	8 (33%)
8	TGT	N	9002	6	23,27,27	4.75	17 (73%)	24,44,44	2.61	8 (33%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	TGT	D	9001	6	-	6/14/57/57	0/2/2/2
8	TGT	N	9002	6	-	6/14/57/57	0/2/2/2

All (36) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	D	9001	TGT	O11-C10	9.66	1.55	1.21
8	N	9002	TGT	O11-C10	8.91	1.53	1.21
8	N	9002	TGT	O3-C8	8.83	1.41	1.23
8	N	9002	TGT	C6-C7	6.86	1.58	1.52
8	D	9001	TGT	C6-C7	6.60	1.58	1.52
8	N	9002	TGT	C1-C2	6.24	1.63	1.53
8	D	9001	TGT	C3-C4	5.96	1.64	1.52
8	N	9002	TGT	P1-O8	5.60	1.67	1.50
8	D	9001	TGT	P1-O8	5.51	1.67	1.50
8	N	9002	TGT	C8-N1	5.37	1.43	1.32
8	N	9002	TGT	C7-C1	5.25	1.66	1.53
8	N	9002	TGT	C3-C2	5.22	1.64	1.53
8	D	9001	TGT	C1-C2	5.08	1.61	1.53
8	N	9002	TGT	C6-S1	5.08	1.85	1.81
8	D	9001	TGT	C7-C1	4.95	1.65	1.53
8	N	9002	TGT	C3-C4	4.84	1.62	1.52
8	D	9001	TGT	O4-C9	4.80	1.37	1.22
8	D	9001	TGT	O1-C4	4.66	1.51	1.43
8	N	9002	TGT	O1-C4	4.63	1.51	1.43
8	N	9002	TGT	O4-C9	4.61	1.36	1.22
8	D	9001	TGT	C6-S1	4.60	1.85	1.81
8	D	9001	TGT	O3-C8	4.50	1.32	1.23
8	D	9001	TGT	C8-N1	4.49	1.41	1.32
8	D	9001	TGT	C3-C2	4.47	1.62	1.53
8	N	9002	TGT	P1-O7	4.23	1.70	1.54
8	N	9002	TGT	O6-C1	4.08	1.51	1.45
8	D	9001	TGT	C2-N2	3.92	1.53	1.47
8	D	9001	TGT	P1-O7	3.52	1.67	1.54
8	N	9002	TGT	P1-O6	3.37	1.65	1.59
8	D	9001	TGT	O10-C3	2.98	1.49	1.44
8	D	9001	TGT	C7-C9	2.82	1.58	1.52
8	N	9002	TGT	C5-C4	2.59	1.59	1.53
8	N	9002	TGT	C2-N2	2.58	1.51	1.47
8	D	9001	TGT	C5-C4	2.29	1.58	1.53
8	D	9001	TGT	O6-C1	2.26	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	D	9001	TGT	O5-C9	2.13	1.38	1.30

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	D	9001	TGT	O10-C10-C11	7.34	124.18	111.09
8	N	9002	TGT	O10-C10-C11	7.10	123.76	111.09
8	N	9002	TGT	C3-O10-C10	6.92	128.47	117.72
8	D	9001	TGT	C3-O10-C10	5.89	126.88	117.72
8	D	9001	TGT	O9-P1-O6	3.97	121.31	105.85
8	N	9002	TGT	O9-P1-O6	3.70	120.25	105.85
8	D	9001	TGT	O10-C3-C4	2.82	114.39	108.17
8	N	9002	TGT	O10-C10-O11	-2.66	117.85	122.99
8	D	9001	TGT	O3-C8-N1	-2.55	118.16	123.14
8	N	9002	TGT	O6-C1-C2	2.38	111.39	107.88
8	D	9001	TGT	O11-C10-C11	-2.36	116.39	124.77
8	D	9001	TGT	C6-C7-C9	-2.19	107.02	110.53
8	N	9002	TGT	C6-C7-C9	-2.09	107.18	110.53
8	N	9002	TGT	P1-O6-C1	2.08	129.12	123.54
8	N	9002	TGT	O3-C8-N1	-2.04	119.17	123.14
8	D	9001	TGT	O5-C9-C7	2.00	121.42	114.48

There are no chirality outliers.

All (12) torsion outliers are listed below:

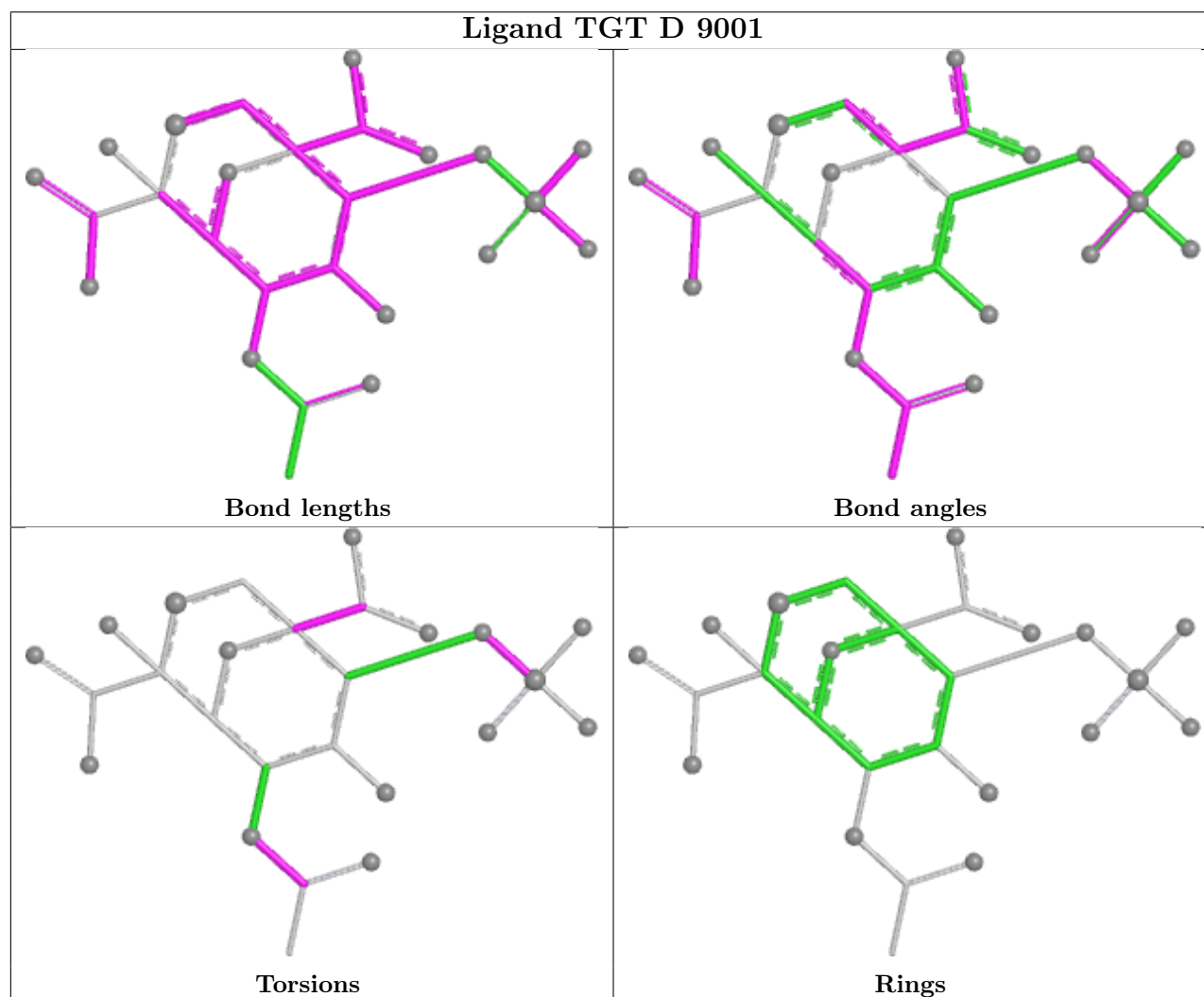
Mol	Chain	Res	Type	Atoms
8	D	9001	TGT	O1-C7-C9-O5
8	D	9001	TGT	C11-C10-O10-C3
8	N	9002	TGT	O1-C7-C9-O5
8	N	9002	TGT	C11-C10-O10-C3
8	D	9001	TGT	O11-C10-O10-C3
8	N	9002	TGT	O11-C10-O10-C3
8	D	9001	TGT	C1-C7-C9-O4
8	D	9001	TGT	C1-C7-C9-O5
8	N	9002	TGT	C1-C7-C9-O4
8	N	9002	TGT	C1-C7-C9-O5
8	N	9002	TGT	C2-C1-O6-P1
8	D	9001	TGT	C1-O6-P1-O7

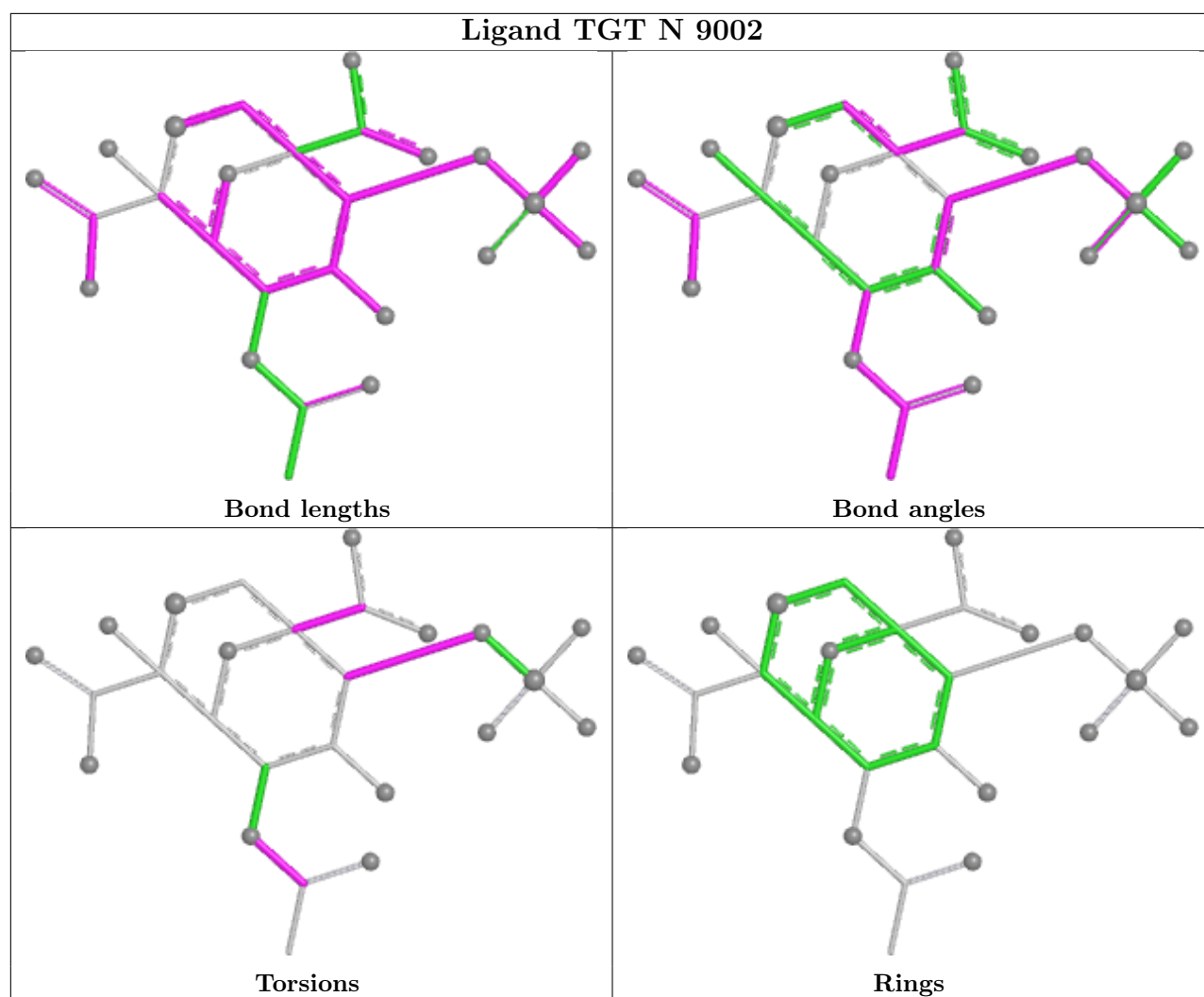
There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	D	9001	TGT	3	0
8	N	9002	TGT	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	1.75	52 (22%) 2 2	18, 47, 72, 88	0
1	B	229/315 (72%)	2.50	91 (39%) 1 0	34, 66, 82, 88	0
1	K	229/315 (72%)	1.35	57 (24%) 2 1	21, 43, 70, 92	0
1	L	229/315 (72%)	2.58	84 (36%) 1 1	34, 62, 82, 95	0
2	C	1119/1119 (100%)	2.50	428 (38%) 1 0	15, 58, 81, 94	0
2	M	1119/1119 (100%)	2.58	436 (38%) 1 0	15, 55, 81, 97	0
3	D	1392/1524 (91%)	1.87	385 (27%) 1 1	15, 49, 82, 97	0
3	N	1392/1524 (91%)	1.89	412 (29%) 1 1	16, 48, 83, 105	0
4	E	95/99 (95%)	1.70	28 (29%) 1 1	30, 59, 82, 103	0
4	O	95/99 (95%)	1.81	29 (30%) 1 1	22, 59, 77, 87	0
5	F	345/423 (81%)	2.84	154 (44%) 0 0	38, 63, 83, 97	0
5	P	345/423 (81%)	2.93	165 (47%) 0 0	41, 64, 85, 92	0
All	All	6818/7590 (89%)	2.22	2321 (34%) 1 1	15, 54, 82, 105	0

All (2321) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	C	153	ALA	24.4
2	M	153	ALA	21.6
1	L	90	LEU	21.3
1	L	95	GLN	21.2
5	F	386	VAL	21.1
1	L	93	SER	20.8
1	L	91	ASN	20.6
2	M	152	PRO	20.1
1	A	157	GLY	19.3
3	D	808	THR	18.5
2	C	767	PRO	18.2

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Mol	Chain	Res	Type	RSRZ
1	B	4	SER	18.0
3	D	401	TYR	17.9
1	L	94	LEU	17.9
3	D	1246	VAL	17.5
2	M	519	GLY	17.5
2	C	152	PRO	17.5
1	A	6	LEU	17.2
3	N	801	GLY	17.2
1	A	118	ALA	17.0
2	C	782	ALA	17.0
3	D	442	ASN	16.9
2	M	510	ALA	16.6
3	N	1246	VAL	16.5
2	C	180	GLY	16.2
3	D	810	GLU	16.2
2	M	179	ASN	16.2
5	F	415	THR	16.1
3	D	379	ALA	16.1
5	F	139	ALA	16.1
3	D	380	GLU	16.0
2	C	519	GLY	15.9
3	N	1245	GLY	15.9
2	M	187	ASN	15.9
2	C	347	GLY	15.8
3	D	250	LEU	15.6
1	B	118	ALA	15.6
5	F	391	GLY	15.5
2	M	763	GLY	15.5
5	P	359	SER	15.4
2	M	782	ALA	15.4
1	B	157	GLY	15.4
3	D	1316	GLY	15.4
2	M	352	ALA	15.3
3	N	407	VAL	15.1
2	M	180	GLY	15.0
2	M	19	THR	15.0
3	D	809	PRO	14.9
2	C	17	PRO	14.9
3	N	800	LYS	14.8
3	D	807	ALA	14.8
3	N	1249	ALA	14.8
3	D	1031	ASN	14.8

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Mol	Chain	Res	Type	RSRZ
1	A	1	MET	14.6
3	N	406	ASP	14.6
3	N	122	GLU	14.6
1	L	92	PRO	14.5
2	C	377	PRO	14.5
3	N	408	GLU	14.5
2	M	354	GLY	14.5
3	D	505	SER	14.4
1	B	2	LEU	14.4
2	M	347	GLY	14.3
1	L	96	THR	14.2
2	M	181	VAL	14.2
2	M	353	ARG	14.2
2	M	1066	ALA	14.2
3	D	870	GLY	14.1
3	N	870	GLY	14.1
3	D	1247	ALA	14.1
3	D	400	VAL	14.1
1	A	2	LEU	14.1
5	P	91	VAL	14.1
2	C	794	PRO	14.0
2	M	349	ALA	14.0
5	F	359	SER	14.0
3	N	1247	ALA	14.0
2	M	17	PRO	14.0
3	D	1129	THR	13.9
2	M	380	ALA	13.8
3	D	1250	ALA	13.8
3	D	588	GLY	13.8
2	M	590	ASP	13.7
2	M	781	LYS	13.6
2	M	512	ARG	13.5
4	E	44	GLU	13.4
3	N	404	GLU	13.4
2	C	555	ALA	13.4
5	P	322	GLY	13.4
2	C	19	THR	13.3
1	B	159	LYS	13.3
3	N	188	GLY	13.3
3	N	1250	ALA	13.3
1	L	119	ASP	13.3
2	M	555	ALA	13.3

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Mol	Chain	Res	Type	RSRZ
1	B	3	ASP	13.2
3	D	1317	ASP	13.2
1	K	6	LEU	13.1
3	N	242	LEU	13.1
2	C	765	SER	13.1
3	N	505	SER	13.0
2	M	520	GLU	12.9
2	C	1	MET	12.8
5	P	360	LYS	12.8
1	K	1	MET	12.7
2	C	781	LYS	12.6
1	L	2	LEU	12.6
3	N	137	PRO	12.6
2	C	18	LEU	12.6
2	M	817	PRO	12.6
2	C	251	ASP	12.6
1	A	216	GLU	12.6
1	L	4	SER	12.6
3	D	188	GLY	12.5
3	D	403	PHE	12.5
2	C	155	PRO	12.5
3	D	137	PRO	12.5
3	D	530	VAL	12.4
3	D	1245	GLY	12.4
2	M	319	GLY	12.4
3	D	1419	PRO	12.3
2	M	223	ASP	12.3
2	C	220	GLY	12.3
3	N	1031	ASN	12.3
2	M	1077	PRO	12.3
1	L	118	ALA	12.2
3	D	844	ALA	12.1
2	C	263	ASP	12.1
5	P	339	PRO	12.1
2	C	1025	ALA	12.0
2	M	18	LEU	12.0
2	C	222	MET	12.0
3	N	1439	SER	12.0
4	O	43	GLU	12.0
3	D	1248	GLY	12.0
3	N	869	MET	12.0
3	N	405	ASP	11.9

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Mol	Chain	Res	Type	RSRZ
2	C	763	GLY	11.9
2	C	771	GLU	11.9
3	D	67	ARG	11.8
5	F	74	LYS	11.8
2	C	170	PRO	11.8
2	M	1004	LYS	11.7
2	M	348	LEU	11.7
2	M	522	VAL	11.7
3	D	1249	ALA	11.7
2	M	1067	TYR	11.6
3	D	832	ARG	11.6
2	C	173	ASP	11.6
2	C	495	THR	11.6
2	C	171	TRP	11.6
2	M	1001	VAL	11.6
2	C	375	SER	11.6
5	P	342	VAL	11.5
2	C	1023	GLY	11.5
5	P	102	LEU	11.5
3	D	1088	THR	11.5
5	P	180	GLY	11.4
2	C	793	PRO	11.4
3	D	1360	GLY	11.4
2	M	1065	ALA	11.4
2	C	179	ASN	11.4
1	L	3	ASP	11.3
5	F	86	HIS	11.3
2	C	1001	VAL	11.3
3	N	530	VAL	11.3
2	C	16	PRO	11.3
3	N	854	ALA	11.2
3	D	969	ARG	11.2
1	K	159	LYS	11.2
5	F	91	VAL	11.2
2	C	376	ARG	11.2
2	M	377	PRO	11.2
2	C	15	LEU	11.2
2	C	817	PRO	11.2
2	M	171	TRP	11.2
3	N	1341	PRO	11.2
2	M	374	ASN	11.2
3	D	532	GLY	11.2

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Mol	Chain	Res	Type	RSRZ
3	N	1342	GLU	11.2
2	C	525	SER	11.2
3	N	1360	GLY	11.2
2	C	380	ALA	11.1
2	C	209	ARG	11.1
4	O	44	GLU	11.1
5	F	360	LYS	11.1
2	M	764	GLU	11.1
3	N	240	GLU	11.1
5	P	341	PRO	11.0
2	M	1	MET	11.0
5	P	415	THR	10.9
2	C	233	GLU	10.9
5	F	183	ALA	10.9
2	C	262	ALA	10.9
2	M	183	SER	10.9
2	M	219	GLN	10.9
2	M	1023	GLY	10.8
5	P	386	VAL	10.8
3	N	1297	GLU	10.8
2	M	21	ILE	10.8
2	C	1065	ALA	10.8
2	M	188	LYS	10.8
2	C	510	ALA	10.7
3	N	969	ARG	10.7
3	N	1128	VAL	10.7
2	M	1062	GLY	10.7
2	M	263	ASP	10.7
2	M	586	ARG	10.7
5	F	89	GLY	10.7
2	M	227	PHE	10.7
3	D	504	ASP	10.7
2	M	178	PRO	10.7
5	F	393	THR	10.7
2	M	182	VAL	10.7
3	D	416	ALA	10.7
5	F	180	GLY	10.6
3	N	189	GLN	10.6
3	D	589	ALA	10.6
3	N	1337	GLU	10.6
2	C	524	VAL	10.6
2	C	795	GLY	10.6

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Mol	Chain	Res	Type	RSRZ
2	M	350	ARG	10.6
2	C	14	PRO	10.6
3	D	122	GLU	10.5
2	C	494	TYR	10.5
1	B	190	THR	10.5
2	C	556	ASN	10.5
2	M	794	PRO	10.5
3	N	27	GLU	10.5
3	N	810	GLU	10.5
2	C	1066	ALA	10.4
2	C	186	VAL	10.4
2	M	795	GLY	10.4
1	L	5	LYS	10.4
2	M	381	ALA	10.4
3	D	441	ARG	10.4
5	F	92	PRO	10.4
2	C	381	ALA	10.4
2	C	590	ASP	10.4
2	M	16	PRO	10.4
3	N	799	LYS	10.4
3	D	697	GLY	10.3
3	N	1248	GLY	10.3
1	L	1	MET	10.3
2	C	446	GLY	10.3
3	D	533	GLY	10.3
3	D	1342	GLU	10.3
2	C	224	GLU	10.2
4	E	43	GLU	10.2
2	M	375	SER	10.2
1	B	191	ASP	10.2
2	M	262	ALA	10.2
3	N	585	GLY	10.2
2	C	172	ILE	10.2
2	M	378	LEU	10.2
5	F	138	SER	10.2
3	N	588	GLY	10.1
1	A	155	LYS	10.1
2	M	165	LEU	10.1
2	M	186	VAL	10.1
2	C	264	PRO	10.1
2	C	768	THR	10.1
2	M	521	PRO	10.1

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Mol	Chain	Res	Type	RSRZ
5	F	423	ASP	10.0
2	M	173	ASP	10.0
2	C	20	GLU	10.0
3	N	1234	THR	10.0
2	M	589	ARG	10.0
1	L	182	GLU	10.0
1	B	162	ILE	10.0
2	M	523	ILE	10.0
3	D	534	ARG	10.0
3	D	531	ASP	9.9
5	P	92	PRO	9.9
2	C	422	ARG	9.9
3	D	850	LEU	9.9
2	C	379	GLU	9.9
1	B	188	GLN	9.9
3	N	1127	GLU	9.8
2	M	554	ASP	9.8
5	P	345	ALA	9.8
3	D	1297	GLU	9.8
3	D	1341	PRO	9.8
5	F	121	GLY	9.8
3	N	1129	THR	9.8
2	C	764	GLU	9.8
3	D	1380	GLU	9.8
2	M	717	LEU	9.8
2	M	525	SER	9.7
2	C	1077	PRO	9.7
2	M	169	GLY	9.7
3	N	471	GLU	9.7
5	F	241	TRP	9.7
3	N	469	ASP	9.7
3	N	1340	GLY	9.7
1	A	5	LYS	9.7
5	P	139	ALA	9.7
3	D	585	GLY	9.7
5	P	183	ALA	9.7
2	M	1025	ALA	9.6
3	D	1340	GLY	9.6
2	C	349	ALA	9.6
2	M	233	GLU	9.6
3	D	407	VAL	9.5
5	F	245	GLN	9.5

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Mol	Chain	Res	Type	RSRZ
2	C	169	GLY	9.5
3	N	533	GLY	9.5
2	C	717	LEU	9.5
5	P	393	THR	9.5
2	M	15	LEU	9.5
3	D	1418	LYS	9.5
3	D	944	THR	9.5
2	C	517	ARG	9.5
2	M	346	VAL	9.5
2	M	20	GLU	9.5
5	P	413	SER	9.5
5	F	357	ALA	9.4
5	P	411	HIS	9.4
2	C	167	LYS	9.4
2	M	446	GLY	9.4
2	C	124	ASP	9.4
3	N	532	GLY	9.4
2	M	46	ALA	9.4
2	C	181	VAL	9.4
3	D	415	VAL	9.4
5	F	283	GLY	9.4
5	P	340	SER	9.4
3	N	944	THR	9.3
3	D	753	SER	9.3
2	C	164	PRO	9.3
2	C	1000	MET	9.3
2	M	1000	MET	9.3
2	C	522	VAL	9.3
3	N	1073	SER	9.3
2	M	170	PRO	9.3
5	F	120	THR	9.3
2	M	1064	ASN	9.3
5	P	394	ARG	9.3
2	C	1003	ASP	9.2
3	N	504	ASP	9.2
5	F	339	PRO	9.2
2	C	350	ARG	9.2
3	D	26	VAL	9.2
2	M	784	ASP	9.2
2	C	1075	ASP	9.2
2	M	155	PRO	9.1
3	N	871	LYS	9.1

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Mol	Chain	Res	Type	RSRZ
5	F	102	LEU	9.1
2	M	422	ARG	9.1
1	L	184	THR	9.1
2	C	445	GLU	9.1
2	M	47	ALA	9.1
5	P	86	HIS	9.1
2	M	517	ARG	9.1
3	N	365	ASP	9.1
2	M	351	LEU	9.1
2	M	818	GLY	9.1
2	C	520	GLU	9.0
2	C	589	ARG	9.0
2	M	518	LYS	9.0
5	P	245	GLN	9.0
3	D	1420	LEU	9.0
2	M	1024	LYS	9.0
2	M	164	PRO	9.0
2	M	556	ASN	9.0
3	D	1126	ASP	9.0
1	K	216	GLU	9.0
1	B	151	VAL	9.0
2	M	931	GLY	9.0
1	L	160	ASP	9.0
3	D	696	HIS	9.0
3	D	1092	GLY	9.0
1	B	189	ARG	8.9
1	B	119	ASP	8.9
2	C	518	LYS	8.9
2	M	185	LYS	8.9
2	M	320	HIS	8.9
2	C	586	ARG	8.9
3	N	945	SER	8.9
5	P	90	GLN	8.9
2	M	1069	ALA	8.9
3	D	529	GLN	8.9
3	N	1419	PRO	8.9
2	C	23	VAL	8.9
3	N	409	VAL	8.9
3	D	189	GLN	8.8
3	N	1408	ILE	8.8
5	P	119	ILE	8.8
3	D	1308	GLU	8.8

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Mol	Chain	Res	Type	RSRZ
3	N	1070	TYR	8.8
2	C	554	ASP	8.8
2	C	46	ALA	8.8
2	C	981	GLU	8.8
4	O	47	LYS	8.8
5	P	344	ALA	8.8
3	N	26	VAL	8.8
3	D	847	ASP	8.8
3	D	471	GLU	8.7
5	P	414	ARG	8.7
5	P	419	ARG	8.7
3	D	849	ALA	8.7
2	M	357	GLU	8.7
2	M	878	SER	8.7
3	N	1091	SER	8.7
5	F	90	GLN	8.7
2	M	231	PRO	8.7
3	D	365	ASP	8.7
3	N	853	VAL	8.7
2	C	1024	LYS	8.7
3	D	440	VAL	8.6
2	C	447	ALA	8.6
2	C	1004	LYS	8.6
2	C	208	ALA	8.6
2	C	515	ALA	8.6
2	C	983	ILE	8.6
3	N	1158	VAL	8.6
5	F	413	SER	8.6
2	C	219	GLN	8.6
3	N	534	ARG	8.6
2	C	166	PRO	8.6
2	C	984	GLU	8.6
2	M	220	GLY	8.5
3	N	830	ALA	8.5
3	N	249	TYR	8.5
2	M	50	GLU	8.5
2	M	345	ARG	8.5
2	M	1068	GLU	8.5
3	D	404	GLU	8.5
3	N	1339	LYS	8.4
1	L	189	ARG	8.4
5	P	138	SER	8.4

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Mol	Chain	Res	Type	RSRZ
3	N	475	LYS	8.4
2	M	1002	GLU	8.4
2	M	524	VAL	8.4
5	P	89	GLY	8.4
2	C	528	GLU	8.4
1	B	156	HIS	8.4
2	M	1003	ASP	8.3
5	P	296	GLY	8.3
3	N	1231	GLU	8.3
3	D	851	LEU	8.3
3	N	531	ASP	8.3
3	D	1337	GLU	8.3
5	F	182	ALA	8.3
3	N	972	LEU	8.3
1	L	89	PHE	8.3
3	D	424	GLY	8.3
3	N	855	HIS	8.3
2	M	379	GLU	8.3
2	C	553	ASP	8.3
2	C	441	VAL	8.3
1	K	67	THR	8.3
3	N	94	GLU	8.2
2	C	559	LEU	8.2
2	M	14	PRO	8.2
4	O	45	ARG	8.2
2	C	223	ASP	8.2
1	A	152	PRO	8.2
3	N	441	ARG	8.2
2	C	762	LYS	8.2
3	N	529	GLN	8.2
1	L	145	ASP	8.1
2	M	226	VAL	8.1
2	C	698	ASP	8.1
3	D	1128	VAL	8.1
5	P	98	GLU	8.1
3	D	22	SER	8.1
5	P	74	LYS	8.1
3	D	800	LYS	8.1
3	D	1314	LYS	8.1
1	B	6	LEU	8.0
3	N	223	LEU	8.0
3	N	851	LEU	8.0

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Mol	Chain	Res	Type	RSRZ
3	D	717	GLN	8.0
1	B	1	MET	8.0
1	B	183	ASP	8.0
2	M	75	GLU	8.0
1	B	7	LYS	8.0
2	M	765	SER	8.0
2	M	154	ARG	8.0
3	D	66	GLN	8.0
2	M	912	PRO	8.0
2	M	627	ARG	8.0
3	D	28	LYS	7.9
5	P	120	THR	7.9
5	F	387	GLY	7.9
2	C	796	GLU	7.9
2	M	447	ALA	7.9
3	N	872	ARG	7.9
2	C	187	ASN	7.9
3	D	638	LYS	7.9
5	P	186	HIS	7.9
3	D	811	GLU	7.9
1	B	158	ILE	7.9
3	N	1225	ALA	7.9
3	D	1049	SER	7.8
2	C	982	PRO	7.8
3	N	1308	GLU	7.8
3	D	121	THR	7.8
2	M	779	GLY	7.8
5	F	356	LYS	7.8
5	P	343	ASP	7.8
2	M	445	GLU	7.8
2	M	982	PRO	7.8
2	C	493	ARG	7.8
3	N	697	GLY	7.8
5	F	343	ASP	7.8
5	P	323	ASP	7.8
3	D	855	HIS	7.8
5	P	182	ALA	7.8
5	P	241	TRP	7.8
3	N	867	ARG	7.8
2	M	715	THR	7.8
3	N	123	LEU	7.8
3	N	1235	GLN	7.8

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Mol	Chain	Res	Type	RSRZ
1	B	150	TYR	7.7
3	N	845	ASN	7.7
2	C	1002	GLU	7.7
3	N	552	ASN	7.7
2	M	224	GLU	7.7
2	C	116	GLY	7.7
2	C	151	ASP	7.7
3	N	1227	GLN	7.7
3	N	1336	LEU	7.6
2	C	168	ARG	7.6
3	N	1343	ALA	7.6
3	N	1358	ALA	7.6
1	A	116	PRO	7.6
3	D	1404	ASN	7.6
3	N	696	HIS	7.6
2	M	267	TYR	7.6
3	N	868	TYR	7.6
3	D	223	LEU	7.6
3	N	551	ASN	7.6
3	D	1130	ARG	7.5
1	L	97	VAL	7.5
3	N	595	GLY	7.5
1	L	190	THR	7.5
2	M	983	ILE	7.5
5	F	179	GLU	7.5
5	F	355	GLU	7.5
2	M	793	PRO	7.5
1	A	151	VAL	7.5
5	F	186	HIS	7.5
2	C	766	GLU	7.5
3	D	640	HIS	7.5
2	M	41	ASN	7.5
2	C	232	GLU	7.5
5	F	75	ILE	7.5
1	B	152	PRO	7.5
3	D	506	GLY	7.5
3	N	1404	ASN	7.5
3	D	945	SER	7.5
2	M	166	PRO	7.4
5	F	119	ILE	7.4
2	C	878	SER	7.4
1	A	219	ARG	7.4

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Mol	Chain	Res	Type	RSRZ
3	N	1437	ALA	7.4
2	C	267	TYR	7.4
5	F	363	GLU	7.4
3	D	438	ASP	7.4
3	N	1251	ASP	7.4
5	P	101	GLU	7.4
2	M	230	ARG	7.4
3	N	943	THR	7.4
1	K	155	LYS	7.4
3	N	1418	LYS	7.4
2	M	942	GLU	7.4
1	L	183	ASP	7.3
3	D	869	MET	7.3
2	M	879	ARG	7.3
3	N	1092	GLY	7.3
2	C	513	VAL	7.3
3	D	27	GLU	7.3
3	D	852	ALA	7.3
5	P	416	ARG	7.3
5	P	421	PHE	7.3
3	D	25	GLU	7.3
2	M	172	ILE	7.3
2	C	716	LYS	7.3
2	M	49	ARG	7.2
3	N	708	LEU	7.2
2	C	558	ALA	7.2
5	P	105	LYS	7.2
3	D	251	PHE	7.2
2	M	876	VAL	7.2
1	B	91	ASN	7.2
2	C	383	ARG	7.2
2	M	266	ARG	7.2
3	D	856	GLY	7.2
1	B	116	PRO	7.2
5	P	87	GLU	7.2
5	F	185	GLN	7.2
3	N	1269	LYS	7.2
2	M	151	ASP	7.2
3	N	809	PRO	7.2
2	C	114	PHE	7.2
3	N	1051	GLU	7.1
2	M	1026	GLN	7.1

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Mol	Chain	Res	Type	RSRZ
3	D	804	LEU	7.1
3	D	1032	PRO	7.1
2	M	1038	TRP	7.1
1	B	155	LYS	7.1
2	C	378	LEU	7.1
2	M	559	LEU	7.1
3	N	121	THR	7.1
3	D	417	PRO	7.1
2	C	942	GLU	7.1
3	D	1408	ILE	7.1
2	M	23	VAL	7.1
5	P	106	VAL	7.1
2	C	154	ARG	7.1
2	M	513	VAL	7.0
3	D	845	ASN	7.0
3	N	852	ALA	7.0
5	P	103	ALA	7.0
3	N	22	SER	7.0
5	F	135	ILE	7.0
3	D	1336	LEU	7.0
2	M	984	GLU	7.0
3	D	594	PRO	7.0
3	D	854	ALA	7.0
4	O	42	PRO	7.0
1	B	90	LEU	7.0
3	N	25	GLU	7.0
5	P	179	GLU	7.0
5	F	296	GLY	7.0
1	B	219	ARG	7.0
3	N	1442	ASN	7.0
3	D	609	GLY	7.0
1	B	148	VAL	6.9
3	D	859	ASP	6.9
3	D	1362	LYS	6.9
1	B	96	THR	6.9
3	N	1088	THR	6.9
2	C	784	ASP	6.9
5	F	141	VAL	6.9
1	B	128	HIS	6.9
3	N	640	HIS	6.9
1	L	191	ASP	6.9
2	C	123	GLU	6.9

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Mol	Chain	Res	Type	RSRZ
2	M	376	ARG	6.8
3	D	853	VAL	6.8
2	C	165	LEU	6.8
4	E	54	LEU	6.8
2	C	1038	TRP	6.8
3	D	519	VAL	6.8
2	M	697	ARG	6.8
3	N	472	ALA	6.8
3	D	848	GLU	6.8
3	D	858	VAL	6.8
3	D	1440	PHE	6.8
5	F	390	PHE	6.8
5	P	321	ILE	6.7
1	A	156	HIS	6.7
1	L	188	GLN	6.7
2	M	51	THR	6.7
3	D	405	ASP	6.7
3	D	857	ILE	6.7
3	D	1251	ASP	6.7
2	C	591	SER	6.7
3	D	641	GLN	6.7
3	D	1161	GLU	6.7
2	C	185	LYS	6.7
3	D	503	LEU	6.6
5	F	394	ARG	6.6
2	C	1062	GLY	6.6
1	A	20	TYR	6.6
1	B	126	ASP	6.6
3	N	1438	ALA	6.6
1	B	117	VAL	6.6
2	M	344	PHE	6.6
3	N	1047	LYS	6.6
4	E	59	ASN	6.6
3	D	1358	ALA	6.6
2	M	767	PRO	6.6
3	N	126	VAL	6.6
2	M	1061	GLU	6.6
5	F	336	GLU	6.5
2	M	191	PHE	6.5
5	F	421	PHE	6.5
1	A	212	ASN	6.5
2	C	162	ILE	6.5

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Mol	Chain	Res	Type	RSRZ
2	C	509	ALA	6.5
2	M	228	ALA	6.5
3	D	156	GLU	6.5
2	C	270	GLY	6.5
5	F	88	ILE	6.5
3	D	1400	VAL	6.5
3	N	1440	PHE	6.5
5	F	136	LEU	6.5
2	C	21	ILE	6.5
2	C	253	ALA	6.5
3	D	1051	GLU	6.5
3	D	1158	VAL	6.5
1	B	46	SER	6.4
1	B	149	GLY	6.4
3	D	801	GLY	6.4
2	M	167	LYS	6.4
3	N	773	ALA	6.4
5	F	140	ARG	6.4
3	N	250	LEU	6.4
3	N	844	ALA	6.4
3	N	1232	PRO	6.4
1	B	160	ASP	6.4
2	M	268	ASP	6.4
3	N	586	ARG	6.4
2	M	716	LYS	6.4
5	F	105	LYS	6.4
5	P	338	LEU	6.4
3	D	119	SER	6.4
5	F	340	SER	6.4
1	A	213	GLN	6.4
5	F	342	VAL	6.4
3	D	249	TYR	6.4
5	F	338	LEU	6.4
3	D	966	GLU	6.4
3	D	1480	PHE	6.3
2	C	627	ARG	6.3
3	N	154	THR	6.3
3	N	1359	GLN	6.3
3	N	1380	GLU	6.3
2	M	880	MET	6.3
3	N	856	GLY	6.3
3	N	535	PHE	6.3

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Mol	Chain	Res	Type	RSRZ
5	P	325	LYS	6.3
2	C	258	TYR	6.3
2	M	1117	SER	6.3
5	P	329	TYR	6.3
5	P	283	GLY	6.2
2	M	114	PHE	6.2
5	F	416	ARG	6.2
5	F	137	GLY	6.2
2	M	609	ASN	6.2
3	D	756	GLN	6.2
3	N	638	LYS	6.2
2	M	265	ARG	6.2
2	C	268	ASP	6.2
3	D	1070	TYR	6.2
2	C	557	ARG	6.1
5	F	414	ARG	6.1
3	N	1361	VAL	6.1
2	C	125	GLY	6.1
2	C	1106	ASP	6.1
3	N	1228	SER	6.1
3	N	1430	SER	6.1
4	E	3	GLU	6.1
4	O	4	PRO	6.1
3	N	609	GLY	6.1
3	N	1050	GLY	6.1
3	D	867	ARG	6.1
2	C	1027	PHE	6.1
3	D	773	ALA	6.1
3	D	1089	ALA	6.1
2	C	41	ASN	6.1
3	D	833	GLU	6.1
5	F	181	GLU	6.1
2	C	344	PHE	6.1
5	F	177	ALA	6.1
2	M	796	GLU	6.1
4	O	77	GLU	6.1
2	M	60	GLY	6.0
2	M	493	ARG	6.0
2	C	163	ILE	6.0
2	M	177	GLU	6.0
3	D	1343	ALA	6.0
5	P	177	ALA	6.0

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Mol	Chain	Res	Type	RSRZ
3	D	615	ARG	6.0
5	P	93	LEU	6.0
2	M	444	PRO	6.0
3	D	595	GLY	6.0
3	D	943	THR	6.0
2	C	697	ARG	6.0
3	D	587	ARG	6.0
3	N	1169	ASP	6.0
3	D	618	LEU	6.0
5	F	358	LEU	6.0
3	D	1439	SER	6.0
2	C	346	VAL	6.0
2	M	1114	GLY	6.0
2	C	278	GLU	6.0
2	M	558	ALA	6.0
2	M	1042	ALA	6.0
3	D	1034	GLN	6.0
3	D	425	GLY	5.9
3	N	24	GLY	5.9
3	D	976	GLN	5.9
3	D	406	ASP	5.9
5	F	300	ASP	5.9
2	M	1076	VAL	5.9
2	C	384	GLU	5.9
2	M	816	LYS	5.9
5	F	201	LYS	5.9
2	M	222	MET	5.9
3	D	126	VAL	5.9
2	C	1069	ALA	5.9
2	M	341	THR	5.9
3	D	246	PRO	5.9
1	L	117	VAL	5.9
2	C	523	ILE	5.9
3	D	439	LEU	5.8
3	N	1077	ALA	5.8
2	M	448	ASN	5.8
1	K	213	GLN	5.8
1	L	192	LEU	5.8
2	M	1027	PHE	5.8
1	A	67	THR	5.8
2	M	557	ARG	5.8
2	C	1076	VAL	5.8

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Mol	Chain	Res	Type	RSRZ
3	D	757	ALA	5.8
2	C	731	GLU	5.8
3	N	1013	GLU	5.8
5	P	336	GLU	5.8
3	N	548	ILE	5.8
3	D	846	PRO	5.7
3	D	453	ASP	5.7
2	M	1113	GLU	5.7
2	M	591	SER	5.7
2	C	877	PRO	5.7
1	L	185	ARG	5.7
3	D	1310	ARG	5.7
5	P	249	ARG	5.7
2	M	234	ALA	5.7
1	A	154	GLU	5.7
2	C	492	ASP	5.7
3	N	846	PRO	5.7
3	D	222	GLY	5.7
5	P	75	ILE	5.7
1	B	182	GLU	5.7
3	N	1333	HIS	5.6
3	N	380	GLU	5.6
5	F	285	GLU	5.6
3	N	847	ASP	5.6
3	D	1050	GLY	5.6
2	C	42	VAL	5.6
2	M	79	PRO	5.6
2	M	192	PRO	5.6
1	B	16	GLN	5.6
2	M	59	LYS	5.6
2	C	440	PRO	5.6
3	D	20	SER	5.6
5	P	136	LEU	5.6
1	L	158	ILE	5.6
5	P	94	LEU	5.5
1	A	159	LYS	5.5
2	M	1118	LYS	5.5
3	N	28	LYS	5.5
2	M	877	PRO	5.5
2	M	981	GLU	5.5
2	C	255	ALA	5.5
3	D	1085	ALA	5.5

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Mol	Chain	Res	Type	RSRZ
2	C	226	VAL	5.5
2	M	819	VAL	5.5
3	N	1362	LYS	5.5
2	C	213	ALA	5.5
3	N	717	GLN	5.5
2	M	82	GLU	5.5
3	D	698	LYS	5.5
3	D	547	LEU	5.5
3	N	849	ALA	5.5
1	L	77	GLU	5.5
1	L	159	LYS	5.5
2	M	511	GLU	5.5
3	D	247	GLU	5.5
2	M	184	MET	5.4
5	P	315	VAL	5.4
2	C	43	GLY	5.4
2	M	766	GLU	5.4
1	B	153	ALA	5.4
2	C	715	THR	5.4
3	N	965	GLU	5.4
3	D	1084	THR	5.4
2	C	912	PRO	5.4
4	E	42	PRO	5.4
3	D	552	ASN	5.3
3	D	1170	ASP	5.3
2	C	227	PHE	5.3
3	N	149	LYS	5.3
2	C	504	GLU	5.3
1	A	210	ALA	5.3
3	N	238	PRO	5.3
3	N	1480	PHE	5.3
3	N	138	LYS	5.3
3	N	811	GLU	5.3
1	B	5	LYS	5.3
2	C	374	ASN	5.3
2	C	210	GLU	5.3
2	C	1078	GLU	5.3
2	C	248	PRO	5.3
3	D	752	SER	5.3
5	F	103	ALA	5.3
3	N	1420	LEU	5.3
3	N	92	HIS	5.2

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Mol	Chain	Res	Type	RSRZ
2	C	818	GLY	5.2
1	B	184	THR	5.2
1	A	4	SER	5.2
3	D	1091	SER	5.2
4	O	49	GLN	5.2
1	K	157	GLY	5.2
2	C	1114	GLY	5.2
2	M	116	GLY	5.2
2	M	985	GLY	5.2
3	D	243	ALA	5.2
3	D	1438	ALA	5.2
5	F	301	ALA	5.2
1	B	112	ARG	5.2
1	L	146	ARG	5.2
3	D	138	LYS	5.2
2	C	779	GLY	5.2
2	M	404	LEU	5.2
2	C	265	ARG	5.1
3	N	808	THR	5.1
2	M	175	GLU	5.1
3	N	467	GLU	5.1
5	P	355	GLU	5.1
2	C	797	GLY	5.1
2	M	162	ILE	5.1
3	N	850	LEU	5.1
3	N	410	SER	5.1
3	N	1170	ASP	5.1
2	C	979	THR	5.1
3	D	475	LYS	5.1
5	F	106	VAL	5.1
5	F	297	PRO	5.1
2	M	115	LEU	5.1
3	D	548	ILE	5.1
3	D	708	LEU	5.1
3	N	1317	ASP	5.1
3	D	871	LYS	5.1
5	P	334	PRO	5.1
3	D	1315	ASP	5.1
2	C	881	ASN	5.1
2	M	881	ASN	5.1
2	C	234	ALA	5.1
3	D	562	ALA	5.1

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Mol	Chain	Res	Type	RSRZ
3	D	812	ALA	5.1
2	C	37	GLU	5.0
3	D	1361	VAL	5.0
1	B	186	LEU	5.0
1	B	169	ALA	5.0
3	N	93	ILE	5.0
3	N	243	ALA	5.0
2	C	443	THR	5.0
1	L	151	VAL	5.0
2	M	587	VAL	5.0
3	N	519	VAL	5.0
2	M	713	ARG	5.0
4	E	47	LYS	5.0
2	C	729	LEU	5.0
5	F	93	LEU	5.0
5	P	312	GLN	5.0
1	K	128	HIS	5.0
2	M	1106	ASP	5.0
2	C	183	SER	5.0
2	C	542	VAL	5.0
3	N	946	GLY	5.0
2	M	2	GLU	5.0
1	L	156	HIS	5.0
3	N	589	ALA	5.0
3	N	802	ALA	5.0
3	N	1085	ALA	5.0
3	D	402	PRO	5.0
3	D	123	LEU	5.0
3	N	470	LEU	5.0
3	N	976	GLN	5.0
3	N	1316	GLY	5.0
5	P	387	GLY	5.0
2	M	163	ILE	4.9
3	N	1074	SER	4.9
3	N	706	PRO	4.9
2	M	441	VAL	4.9
5	F	187	LEU	4.9
5	F	305	GLU	4.9
3	D	364	GLY	4.9
2	M	553	ASP	4.9
2	M	780	GLU	4.9
2	C	1026	GLN	4.9

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Mol	Chain	Res	Type	RSRZ
2	C	880	MET	4.9
1	K	220	GLU	4.9
2	M	269	LEU	4.9
1	K	210	ALA	4.9
3	N	580	ALA	4.9
2	C	816	LYS	4.9
2	M	124	ASP	4.9
5	F	346	THR	4.9
4	E	48	MET	4.9
2	C	1034	GLU	4.9
5	P	141	VAL	4.9
3	D	1442	ASN	4.9
3	N	241	ILE	4.8
5	F	325	LYS	4.8
2	C	1061	GLU	4.8
3	N	709	HIS	4.8
2	M	237	ARG	4.8
2	C	236	ILE	4.8
1	K	191	ASP	4.8
5	P	347	GLN	4.8
2	C	235	LEU	4.8
3	N	1344	VAL	4.8
3	D	551	ASN	4.8
3	N	1161	GLU	4.8
4	O	3	GLU	4.8
1	A	16	GLN	4.8
5	P	135	ILE	4.7
3	N	1089	ALA	4.7
3	D	563	PRO	4.7
2	C	24	GLU	4.7
3	N	587	ARG	4.7
5	P	185	GLN	4.7
3	D	972	LEU	4.7
2	M	43	GLY	4.7
3	N	819	GLY	4.7
2	M	454	SER	4.7
5	P	88	ILE	4.7
4	E	60	ALA	4.7
3	N	590	PRO	4.7
3	N	1084	THR	4.7
3	D	619	LEU	4.7
1	L	46	SER	4.7

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Mol	Chain	Res	Type	RSRZ
2	C	266	ARG	4.7
2	C	257	VAL	4.6
1	K	31	GLY	4.6
3	D	381	ALA	4.6
3	N	108	VAL	4.6
2	C	560	MET	4.6
3	N	610	LYS	4.6
3	N	1049	SER	4.6
1	A	153	ALA	4.6
2	C	1116	ALA	4.6
2	C	704	HIS	4.6
3	N	1095	THR	4.6
1	K	30	ARG	4.6
2	C	775	ARG	4.6
2	M	408	ARG	4.6
2	C	177	GLU	4.6
3	N	379	ALA	4.6
3	D	469	ASP	4.6
2	C	249	LYS	4.6
2	M	573	ARG	4.6
1	K	108	GLU	4.6
3	N	1436	SER	4.6
3	N	973	GLN	4.6
2	M	203	ASP	4.6
2	M	698	ASP	4.6
1	L	186	LEU	4.6
2	C	408	ARG	4.5
2	M	168	ARG	4.5
3	N	803	GLY	4.5
5	P	121	GLY	4.5
2	C	444	PRO	4.5
3	N	594	PRO	4.5
1	K	118	ALA	4.5
3	D	501	ALA	4.5
1	L	150	TYR	4.5
5	F	326	ASP	4.5
5	P	346	THR	4.5
3	N	1014	ASN	4.5
3	D	962	GLN	4.5
3	D	1077	ALA	4.5
3	D	1437	ALA	4.5
2	M	197	LEU	4.5

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Mol	Chain	Res	Type	RSRZ
2	M	714	ASP	4.5
3	N	503	LEU	4.5
5	P	176	ILE	4.5
3	D	611	GLN	4.5
3	N	1441	GLN	4.5
5	P	140	ARG	4.5
3	N	156	GLU	4.5
1	K	150	TYR	4.4
2	C	206	THR	4.4
1	K	152	PRO	4.4
2	C	194	VAL	4.4
4	O	55	PHE	4.4
2	C	50	GLU	4.4
5	F	392	VAL	4.4
2	C	1035	MET	4.4
5	P	165	SER	4.4
3	N	1421	LEU	4.4
5	P	181	GLU	4.4
2	C	81	ASP	4.4
3	N	364	GLY	4.4
2	C	728	HIS	4.4
3	N	1226	ALA	4.4
3	D	1169	ASP	4.4
2	C	252	LYS	4.4
2	M	718	GLY	4.4
3	D	776	GLU	4.4
2	C	985	GLY	4.3
5	P	137	GLY	4.3
4	E	78	ASN	4.3
2	C	348	LEU	4.3
3	N	136	ASP	4.3
2	M	247	PRO	4.3
5	P	167	PRO	4.3
3	N	857	ILE	4.3
3	N	1224	VAL	4.3
2	C	732	ALA	4.3
2	M	1116	ALA	4.3
1	L	157	GLY	4.3
3	D	108	VAL	4.3
1	K	84	GLU	4.3
1	A	215	VAL	4.3
2	C	1113	GLU	4.3

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Mol	Chain	Res	Type	RSRZ
1	A	3	ASP	4.2
2	M	264	PRO	4.2
3	D	1225	ALA	4.2
1	A	189	ARG	4.2
3	D	24	GLY	4.2
1	B	223	THR	4.2
2	C	261	ILE	4.2
2	M	528	GLU	4.2
3	N	403	PHE	4.2
2	C	328	LEU	4.2
4	E	2	ALA	4.2
2	C	115	LEU	4.2
2	C	502	PRO	4.2
1	K	209	GLU	4.2
2	M	706	GLU	4.2
3	N	1223	ILE	4.2
5	P	384	GLU	4.2
3	D	1138	ALA	4.2
3	N	366	LYS	4.2
1	A	106	PRO	4.1
1	B	92	PRO	4.1
3	D	973	GLN	4.1
2	C	780	GLU	4.1
2	M	232	GLU	4.1
2	C	879	ARG	4.1
3	N	1164	ARG	4.1
5	P	184	ARG	4.1
2	M	200	LEU	4.1
3	D	1047	LYS	4.1
3	N	563	PRO	4.1
3	N	438	ASP	4.1
2	M	1022	GLY	4.1
3	N	239	GLY	4.1
3	N	948	THR	4.1
2	C	628	PHE	4.1
2	C	47	ALA	4.1
2	M	1080	SER	4.1
3	D	136	ASP	4.1
3	N	966	GLU	4.1
3	N	947	ILE	4.1
3	N	440	VAL	4.1
5	F	361	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
5	P	412	GLU	4.1
3	N	119	SER	4.1
1	K	151	VAL	4.1
2	C	182	VAL	4.1
3	N	439	LEU	4.1
5	F	411	HIS	4.1
3	N	615	ARG	4.0
3	D	719	VAL	4.0
5	F	337	HIS	4.0
3	N	798	GLU	4.0
4	E	77	GLU	4.0
2	C	1118	LYS	4.0
2	M	898	GLY	4.0
5	F	323	ASP	4.0
2	M	560	MET	4.0
2	M	221	LEU	4.0
2	M	360	LEU	4.0
5	F	422	LEU	4.0
2	C	792	VAL	4.0
2	M	194	VAL	4.0
2	C	1112	PHE	4.0
2	M	48	PHE	4.0
2	M	318	PRO	4.0
3	D	580	ALA	4.0
2	C	289	THR	4.0
2	C	230	ARG	4.0
2	M	873	PRO	4.0
3	N	641	GLN	4.0
5	P	104	ARG	4.0
2	C	609	ASN	4.0
2	M	1075	ASP	4.0
2	M	1070	ILE	4.0
2	C	730	SER	4.0
2	M	225	SER	4.0
5	P	348	SER	4.0
3	N	517	VAL	4.0
3	D	184	GLU	3.9
3	D	190	GLU	3.9
3	N	1032	PRO	4.0
3	D	91	GLY	3.9
5	F	109	GLY	3.9
4	E	62	THR	3.9

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Mol	Chain	Res	Type	RSRZ
2	M	542	VAL	3.9
3	N	1400	VAL	3.9
2	C	79	PRO	3.9
3	D	680	GLN	3.9
3	D	965	GLU	3.9
2	C	259	GLY	3.9
2	C	1117	SER	3.9
5	P	358	LEU	3.9
1	A	200	TRP	3.9
2	M	278	GLU	3.9
3	N	1338	ALA	3.9
4	O	2	ALA	3.9
2	M	125	GLY	3.9
1	K	162	ILE	3.9
3	D	695	ILE	3.9
1	K	49	PRO	3.9
2	M	244	PRO	3.9
2	C	320	HIS	3.9
2	C	382	ILE	3.9
5	F	418	LEU	3.9
3	N	1131	SER	3.9
2	C	29	ALA	3.8
2	M	202	TYR	3.8
2	M	663	ASN	3.8
2	C	283	ILE	3.8
5	P	369	LEU	3.8
3	N	1393	GLN	3.8
2	C	144	PRO	3.8
3	N	772	PRO	3.8
2	C	544	THR	3.8
2	M	732	ALA	3.8
3	N	96	ALA	3.8
3	D	868	TYR	3.8
3	D	1333	HIS	3.8
1	K	212	ASN	3.8
1	A	117	VAL	3.8
5	P	242	TRP	3.8
1	L	63	HIS	3.8
1	K	147	GLY	3.8
5	P	109	GLY	3.8
4	E	61	GLU	3.8
2	C	178	PRO	3.8

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Mol	Chain	Res	Type	RSRZ
2	C	1080	SER	3.8
3	N	940	THR	3.8
2	M	302	VAL	3.8
2	M	317	VAL	3.8
3	D	517	VAL	3.8
3	D	1164	ARG	3.8
5	P	309	LYS	3.8
3	N	1230	GLY	3.8
2	M	196	LEU	3.7
3	D	772	PRO	3.7
2	C	225	SER	3.7
3	N	1443	THR	3.7
2	C	457	ALA	3.7
2	C	761	PHE	3.7
5	F	369	LEU	3.7
3	D	125	GLN	3.7
2	C	624	PRO	3.7
3	D	248	PRO	3.7
5	P	356	LYS	3.7
2	C	541	SER	3.7
3	N	719	VAL	3.7
1	A	220	GLU	3.7
2	M	628	PHE	3.7
4	O	52	GLU	3.7
5	F	101	GLU	3.7
2	C	319	GLY	3.7
3	N	837	GLY	3.7
3	D	827	ILE	3.7
5	P	422	LEU	3.7
1	B	125	PRO	3.7
4	O	46	PRO	3.7
3	N	1172	HIS	3.7
3	N	1433	SER	3.7
2	C	13	ILE	3.7
2	C	625	LEU	3.7
2	M	3	ILE	3.7
1	K	91	ASN	3.7
2	M	355	VAL	3.6
5	F	118	GLU	3.6
5	F	176	ILE	3.6
5	F	341	PRO	3.6
2	C	629	TYR	3.6

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Mol	Chain	Res	Type	RSRZ
3	D	544	TYR	3.6
3	N	1434	TRP	3.6
2	C	706	GLU	3.6
3	D	94	GLU	3.6
5	F	98	GLU	3.6
2	C	22	GLN	3.6
2	C	718	GLY	3.6
2	M	761	PHE	3.6
2	M	1011	GLY	3.6
3	D	941	PHE	3.6
2	C	626	ARG	3.6
2	C	946	ARG	3.6
2	M	44	ILE	3.6
2	M	95	TYR	3.6
2	M	42	VAL	3.6
3	D	443	VAL	3.6
5	F	242	TRP	3.6
3	D	837	GLY	3.6
3	N	245	LEU	3.6
3	N	1407	LEU	3.6
3	D	843	PHE	3.6
2	M	261	ILE	3.6
2	C	342	ASP	3.6
1	L	67	THR	3.6
3	D	805	GLU	3.6
3	D	979	GLU	3.6
1	A	8	ALA	3.6
1	K	219	ARG	3.6
2	M	235	LEU	3.6
2	M	277	ALA	3.6
3	N	873	LEU	3.6
3	N	1138	ALA	3.6
5	F	94	LEU	3.6
3	N	248	PRO	3.6
4	E	58	PRO	3.6
1	L	227	ASN	3.6
5	F	108	GLU	3.5
1	K	190	THR	3.5
2	C	218	VAL	3.5
5	P	405	LEU	3.5
1	A	207	PRO	3.5
3	D	806	PHE	3.5

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Mol	Chain	Res	Type	RSRZ
2	C	442	GLU	3.5
2	M	176	VAL	3.5
2	M	22	GLN	3.5
3	D	1430	SER	3.5
1	A	214	ALA	3.5
5	F	344	ALA	3.5
3	D	93	ILE	3.5
4	O	78	ASN	3.5
2	M	407	LYS	3.5
3	N	528	VAL	3.5
4	E	49	GLN	3.5
1	K	47	SER	3.5
2	C	221	LEU	3.5
3	N	1118	ILE	3.5
5	P	144	ILE	3.5
5	F	302	LYS	3.5
5	P	337	HIS	3.5
2	M	533	ASP	3.5
3	N	155	ASP	3.5
2	C	237	ARG	3.5
5	F	184	ARG	3.5
3	D	437	VAL	3.5
2	M	729	LEU	3.5
5	F	405	LEU	3.5
2	C	287	GLY	3.5
3	D	1080	GLY	3.5
3	N	1505	ALA	3.5
2	C	449	ILE	3.5
1	B	185	ARG	3.4
4	O	48	MET	3.4
3	D	1227	GLN	3.4
2	M	1017	THR	3.4
1	B	127	LEU	3.4
1	L	6	LEU	3.4
3	N	599	PRO	3.4
1	A	66	SER	3.4
1	L	7	LYS	3.4
1	L	226	SER	3.4
3	D	830	ALA	3.4
3	D	1074	SER	3.4
2	M	246	ASP	3.4
2	M	534	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
3	N	95	LEU	3.4
2	C	131	GLY	3.4
2	M	797	GLY	3.4
3	D	1309	ALA	3.4
3	N	577	ALA	3.4
2	C	140	ILE	3.4
3	D	614	PHE	3.4
3	D	872	ARG	3.4
5	P	423	ASP	3.4
5	F	402	ASN	3.4
2	M	1019	GLN	3.4
2	M	306	THR	3.4
2	M	910	LYS	3.4
2	M	943	VAL	3.4
3	D	1344	VAL	3.4
4	O	51	LEU	3.4
5	P	174	LEU	3.4
1	L	66	SER	3.4
3	N	1287	GLU	3.4
3	D	909	ASN	3.4
3	D	1417	TRP	3.4
1	B	167	VAL	3.4
2	C	588	VAL	3.4
2	M	218	VAL	3.4
5	P	361	LEU	3.4
2	M	809	GLY	3.4
1	L	162	ILE	3.4
2	C	488	ALA	3.4
5	F	87	GLU	3.4
5	F	419	ARG	3.4
2	C	191	PHE	3.3
1	B	142	VAL	3.3
2	C	714	ASP	3.3
3	D	1269	LYS	3.3
3	N	804	LEU	3.3
1	B	161	ARG	3.3
2	C	512	ARG	3.3
3	D	1137	ARG	3.3
1	K	156	HIS	3.3
2	C	212	GLY	3.3
2	C	809	GLY	3.3
3	N	1081	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
2	C	1016	ILE	3.3
2	M	160	ALA	3.3
3	D	221	ALA	3.3
3	N	227	LEU	3.3
3	N	547	LEU	3.3
2	M	1119	ARG	3.3
1	L	148	VAL	3.3
5	P	95	THR	3.3
3	N	425	GLY	3.3
3	D	1436	SER	3.3
3	N	453	ASP	3.3
3	N	575	GLN	3.3
3	N	401	TYR	3.3
2	C	751	PRO	3.3
3	D	408	GLU	3.3
3	N	979	GLU	3.3
3	N	1288	GLU	3.3
5	P	100	VAL	3.3
3	D	946	GLY	3.3
5	F	309	LYS	3.3
3	D	579	ASP	3.2
3	N	859	ASP	3.2
3	N	584	ASN	3.2
2	C	351	LEU	3.2
5	P	210	LEU	3.2
5	P	297	PRO	3.2
3	D	479	GLU	3.2
5	F	195	VAL	3.2
3	D	378	ILE	3.2
2	M	939	ARG	3.2
3	N	583	ASP	3.2
2	C	1064	ASN	3.2
2	C	30	LEU	3.2
5	F	401	GLU	3.2
5	P	108	GLU	3.2
1	L	53	VAL	3.2
2	M	762	LYS	3.2
3	D	216	VAL	3.2
3	D	1441	GLN	3.2
2	C	281	LEU	3.2
2	M	624	PRO	3.2
2	M	24	GLU	3.2

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Mol	Chain	Res	Type	RSRZ
3	N	797	LYS	3.2
2	C	561	GLY	3.2
2	M	201	GLY	3.2
3	N	623	VAL	3.2
1	L	43	ILE	3.2
2	M	1016	ILE	3.2
5	F	404	ALA	3.2
3	N	1167	SER	3.2
2	C	326	ASP	3.2
2	M	342	ASP	3.2
5	P	420	ASP	3.2
2	C	207	LEU	3.2
2	C	247	PRO	3.2
3	D	1421	LEU	3.2
3	N	2	LYS	3.2
5	F	374	GLY	3.2
2	C	122	THR	3.2
2	C	1111	ILE	3.2
3	N	956	ILE	3.2
3	D	369	ALA	3.1
4	O	64	ALA	3.1
5	F	312	GLN	3.1
5	P	82	ARG	3.1
2	M	190	LYS	3.1
2	M	916	GLU	3.1
3	D	423	ASP	3.1
1	B	94	LEU	3.1
5	F	210	LEU	3.1
5	P	170	HIS	3.1
1	B	53	VAL	3.1
1	A	217	ILE	3.1
2	M	443	THR	3.1
2	C	353	ARG	3.1
2	M	272	ALA	3.1
3	D	455	ARG	3.1
3	N	228	ALA	3.1
2	M	300	ASP	3.1
3	D	1125	PRO	3.1
3	N	608	SER	3.1
4	E	57	ASP	3.1
2	C	269	LEU	3.1
1	B	170	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
2	C	943	VAL	3.1
2	M	199	VAL	3.1
3	D	1379	VAL	3.1
3	N	1446	VAL	3.1
1	K	130	ALA	3.1
1	K	5	LYS	3.1
2	C	530	GLU	3.1
2	M	532	MET	3.1
3	D	709	HIS	3.1
2	M	100	LEU	3.1
5	P	282	LEU	3.1
1	L	167	VAL	3.1
2	C	345	ARG	3.1
3	N	1030	GLY	3.1
2	C	483	VAL	3.1
4	E	39	VAL	3.1
2	M	213	ALA	3.1
5	P	171	LYS	3.1
2	C	552	HIS	3.1
2	M	677	MET	3.1
2	C	310	LEU	3.1
2	M	950	LEU	3.1
3	N	554	LEU	3.1
1	A	33	GLY	3.1
3	N	506	GLY	3.1
2	C	587	VAL	3.1
3	N	134	VAL	3.1
3	N	566	ILE	3.1
1	A	150	TYR	3.0
2	M	604	ALA	3.0
2	M	998	TYR	3.0
5	P	366	ALA	3.0
3	D	467	GLU	3.0
3	N	573	MET	3.0
3	N	1048	PRO	3.0
5	F	167	PRO	3.0
2	M	328	LEU	3.0
2	C	388	ARG	3.0
3	D	1456	LYS	3.0
3	N	1080	GLY	3.0
3	N	1307	LYS	3.0
1	L	120	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
2	C	302	VAL	3.0
4	O	39	VAL	3.0
3	N	1034	GLN	3.0
1	L	153	ALA	3.0
5	F	133	ALA	3.0
1	L	152	PRO	3.0
3	D	227	LEU	3.0
3	N	1194	CYS	3.0
4	E	14	ASP	3.0
5	F	125	ASP	3.0
2	C	931	GLY	3.0
2	C	876	VAL	3.0
2	C	341	THR	3.0
3	N	1286	THR	3.0
2	M	1041	GLU	3.0
3	D	214	GLU	3.0
2	C	309	TYR	3.0
5	P	378	GLY	3.0
2	M	612	VAL	3.0
2	M	1037	VAL	3.0
3	D	435	VAL	3.0
1	K	154	GLU	3.0
3	D	1013	GLU	3.0
3	N	559	ALA	3.0
2	C	150	PRO	3.0
3	D	29	PRO	3.0
3	D	1117	TYR	3.0
5	F	84	TYR	3.0
1	B	82	LEU	3.0
2	C	592	LEU	3.0
2	C	666	LEU	3.0
4	O	54	LEU	3.0
5	F	354	LEU	3.0
2	C	439	CYS	3.0
2	C	1022	GLY	3.0
5	F	144	ILE	2.9
5	P	213	ILE	2.9
5	F	281	GLU	2.9
5	P	368	VAL	2.9
2	M	122	THR	2.9
2	M	144	PRO	2.9
4	E	4	PRO	2.9

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Mol	Chain	Res	Type	RSRZ
2	C	174	LEU	2.9
2	M	238	LEU	2.9
2	M	455	LEU	2.9
5	P	187	LEU	2.9
3	D	656	PHE	2.9
5	F	389	PHE	2.9
2	C	201	GLY	2.9
2	C	329	GLY	2.9
3	D	636	GLN	2.9
3	D	1081	GLY	2.9
5	P	402	ASN	2.9
2	C	777	ILE	2.9
2	C	254	VAL	2.9
2	M	731	GLU	2.9
2	M	1078	GLU	2.9
5	F	213	ILE	2.9
5	F	400	ILE	2.9
3	D	623	VAL	2.9
3	D	842	VAL	2.9
2	M	453	THR	2.9
2	M	1006	HIS	2.9
2	M	946	ARG	2.9
5	P	404	ALA	2.9
2	M	217	LEU	2.9
2	M	281	LEU	2.9
4	E	40	LEU	2.9
5	P	84	TYR	2.9
1	K	160	ASP	2.9
1	B	187	GLY	2.9
2	M	273	GLY	2.9
3	D	77	GLY	2.9
3	D	831	GLY	2.9
3	D	1167	SER	2.9
1	B	56	VAL	2.9
2	M	588	VAL	2.9
3	D	699	VAL	2.9
5	P	195	VAL	2.9
2	C	405	ARG	2.9
2	M	315	ALA	2.9
3	D	590	PRO	2.9
1	B	45	LEU	2.9
2	C	533	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
5	F	335	ASP	2.9
3	N	1053	PHE	2.9
3	N	151	GLN	2.9
5	F	214	GLN	2.9
2	C	511	GLU	2.9
3	D	164	GLY	2.9
3	N	1233	GLY	2.9
3	N	695	ILE	2.9
2	M	704	HIS	2.9
3	D	836	VAL	2.9
3	D	97	THR	2.9
3	N	1306	PRO	2.9
5	P	357	ALA	2.9
1	L	114	PHE	2.9
2	M	1074	GLU	2.9
5	F	384	GLU	2.9
2	C	250	ARG	2.8
2	C	330	ASN	2.8
3	D	771	SER	2.8
1	B	76	VAL	2.8
2	C	322	VAL	2.8
2	C	534	VAL	2.8
3	N	216	VAL	2.8
3	N	836	VAL	2.8
3	N	955	VAL	2.8
5	F	262	VAL	2.8
2	C	314	THR	2.8
3	D	940	THR	2.8
3	D	1232	PRO	2.8
2	C	660	ALA	2.8
2	C	667	ALA	2.8
2	M	255	ALA	2.8
3	N	807	ALA	2.8
3	D	839	LEU	2.8
3	N	225	LEU	2.8
3	D	215	TYR	2.8
1	B	79	ILE	2.8
2	M	9	ILE	2.8
3	D	1224	VAL	2.8
3	N	863	VAL	2.8
1	K	206	THR	2.8
3	N	1431	THR	2.8

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Mol	Chain	Res	Type	RSRZ
2	C	132	ALA	2.8
3	D	472	ALA	2.8
3	N	501	ALA	2.8
2	C	550	LEU	2.8
3	D	245	LEU	2.8
2	M	1034	GLU	2.8
5	P	335	ASP	2.8
3	N	233	LYS	2.8
2	M	471	TYR	2.8
3	N	84	ILE	2.8
2	M	789	SER	2.8
3	N	185	VAL	2.8
2	C	94	LEU	2.8
2	C	228	ALA	2.8
2	M	550	LEU	2.8
3	N	1435	LEU	2.8
5	P	418	LEU	2.8
5	P	189	GLU	2.8
5	P	401	GLU	2.8
1	B	143	ARG	2.8
3	D	597	ASP	2.8
2	M	531	PHE	2.8
1	L	147	GLY	2.8
3	D	1318	TYR	2.8
2	C	663	ASN	2.8
1	L	142	VAL	2.8
2	M	113	VAL	2.8
2	M	1079	PRO	2.8
3	N	1379	VAL	2.8
5	P	124	PRO	2.8
1	L	85	LEU	2.8
2	M	304	LEU	2.8
3	N	1403	LEU	2.8
1	B	140	MET	2.8
3	D	961	LYS	2.8
5	P	118	GLU	2.8
2	M	81	ASP	2.8
3	D	1172	HIS	2.8
1	A	37	GLY	2.7
3	D	1223	ILE	2.7
3	N	827	ILE	2.7
2	M	629	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
3	N	169	TYR	2.7
5	F	145	PRO	2.7
5	F	217	ASN	2.7
1	B	215	VAL	2.7
2	M	257	VAL	2.7
2	M	603	VAL	2.7
3	D	694	VAL	2.7
3	N	795	VAL	2.7
1	K	127	LEU	2.7
2	C	290	LEU	2.7
2	M	94	LEU	2.7
2	M	310	LEU	2.7
3	N	235	ALA	2.7
5	F	345	ALA	2.7
1	L	140	MET	2.7
3	D	1339	LYS	2.7
5	P	115	LYS	2.7
1	L	88	ARG	2.7
2	C	831	ARG	2.7
5	F	104	ARG	2.7
5	P	365	GLU	2.7
2	C	327	HIS	2.7
5	P	400	ILE	2.7
3	N	617	ASN	2.7
3	N	578	VAL	2.7
2	C	372	LEU	2.7
2	C	404	LEU	2.7
2	C	773	LEU	2.7
1	A	223	THR	2.7
2	C	865	THR	2.7
3	N	1455	LYS	2.7
2	C	713	ARG	2.7
1	L	126	ASP	2.7
4	O	83	ASP	2.7
5	P	125	ASP	2.7
1	K	37	GLY	2.7
2	M	128	ILE	2.7
2	M	305	PRO	2.7
2	C	478	VAL	2.7
2	M	649	VAL	2.7
3	D	449	SER	2.7
3	N	427	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
5	P	76	SER	2.7
1	B	192	LEU	2.7
3	D	558	LEU	2.7
5	F	282	LEU	2.7
2	M	368	THR	2.7
1	B	64	GLU	2.7
1	B	220	GLU	2.7
3	D	958	GLU	2.7
3	N	1012	GLU	2.7
5	P	214	GLN	2.7
1	A	191	ASP	2.7
2	M	492	ASP	2.7
5	F	211	ASP	2.7
1	B	58	ILE	2.7
3	N	941	PHE	2.7
2	C	231	PRO	2.7
2	M	76	PRO	2.7
5	P	333	ILE	2.7
1	B	85	LEU	2.7
1	B	101	LEU	2.7
1	L	170	VAL	2.7
2	C	200	LEU	2.7
5	P	166	LEU	2.7
2	C	256	TYR	2.7
3	D	564	GLU	2.7
3	D	936	TYR	2.7
3	D	1303	TYR	2.7
2	C	306	THR	2.7
2	C	469	THR	2.7
2	C	581	THR	2.7
2	M	568	ALA	2.7
2	M	768	THR	2.7
3	N	536	ALA	2.7
1	K	74	ASP	2.6
2	C	203	ASP	2.6
2	C	476	GLY	2.6
3	N	1298	GLY	2.6
3	N	1454	GLY	2.6
5	F	216	GLY	2.6
2	C	521	PRO	2.6
3	D	518	PRO	2.6
3	N	1463	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	L	41	ARG	2.6
2	C	331	ARG	2.6
2	C	332	ARG	2.6
1	A	208	LEU	2.6
1	B	120	VAL	2.6
2	C	217	LEU	2.6
2	M	174	LEU	2.6
2	M	339	LEU	2.6
3	D	444	VAL	2.6
5	P	262	VAL	2.6
3	D	608	SER	2.6
3	N	1478	SER	2.6
4	O	41	GLU	2.6
5	P	281	GLU	2.6
3	N	611	GLN	2.6
5	F	255	ALA	2.6
2	M	999	HIS	2.6
2	M	145	GLY	2.6
4	E	83	ASP	2.6
5	P	300	ASP	2.6
5	P	374	GLY	2.6
3	N	226	PRO	2.6
3	N	622	ARG	2.6
2	C	313	LEU	2.6
2	M	613	VAL	2.6
3	N	1200	VAL	2.6
2	C	312	ALA	2.6
2	C	368	THR	2.6
5	P	173	TYR	2.6
2	C	188	LYS	2.6
5	F	171	LYS	2.6
2	C	145	GLY	2.6
2	M	236	ILE	2.6
2	M	420	ARG	2.6
5	P	145	PRO	2.6
1	L	101	LEU	2.6
3	N	582	LEU	2.6
1	L	177	VAL	2.6
2	C	448	ASN	2.6
3	D	1014	ASN	2.6
3	N	858	VAL	2.6
2	M	776	SER	2.6

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Mol	Chain	Res	Type	RSRZ
1	L	35	THR	2.6
3	D	1409	ALA	2.6
3	N	1444	THR	2.6
5	F	366	ALA	2.6
5	F	175	HIS	2.6
1	L	49	PRO	2.6
2	M	741	GLY	2.6
3	D	1327	ARG	2.6
3	N	579	ASP	2.6
3	N	620	GLY	2.6
1	B	217	ILE	2.6
2	C	128	ILE	2.6
2	M	101	ILE	2.6
3	N	1229	ILE	2.6
5	F	376	ILE	2.6
2	C	311	PHE	2.6
1	A	209	GLU	2.6
1	B	222	LEU	2.6
2	C	1040	LEU	2.6
2	M	372	LEU	2.6
3	D	1209	LEU	2.6
1	L	229	GLN	2.6
2	C	1037	VAL	2.6
3	N	962	GLN	2.6
3	D	36	THR	2.6
3	D	577	ALA	2.6
3	D	1443	THR	2.6
3	N	757	ALA	2.6
3	N	1066	THR	2.6
3	N	1409	ALA	2.6
5	F	250	ALA	2.6
1	K	107	LYS	2.6
1	L	155	LYS	2.6
3	N	224	ARG	2.5
3	D	706	PRO	2.5
1	B	129	ILE	2.5
1	L	129	ILE	2.5
3	N	1105	ILE	2.5
5	F	113	ILE	2.5
3	D	576	GLU	2.5
5	F	129	GLU	2.5
3	D	1407	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
1	K	81	ASN	2.5
2	M	12	VAL	2.5
2	M	314	THR	2.5
3	D	707	THR	2.5
3	N	449	SER	2.5
2	C	1119	ARG	2.5
2	C	471	TYR	2.5
2	M	787	ASP	2.5
3	D	949	ILE	2.5
5	F	188	ILE	2.5
3	N	1345	GLU	2.5
2	M	778	PHE	2.5
3	D	860	LEU	2.5
1	L	86	VAL	2.5
2	C	407	LYS	2.5
2	C	475	VAL	2.5
2	C	1006	HIS	2.5
3	D	92	HIS	2.5
3	D	1116	ASN	2.5
2	C	143	SER	2.5
2	M	535	SER	2.5
3	N	752	SER	2.5
5	P	287	THR	2.5
3	N	568	ARG	2.5
5	F	178	ARG	2.5
5	P	153	PRO	2.5
3	D	433	GLY	2.5
2	C	333	ILE	2.5
5	P	113	ILE	2.5
1	B	218	LEU	2.5
2	M	625	LEU	2.5
3	D	754	PHE	2.5
3	N	1429	LEU	2.5
3	N	187	LYS	2.5
5	P	196	VAL	2.5
1	L	143	ARG	2.5
2	M	499	ALA	2.5
3	D	1159	ARG	2.5
5	P	311	ALA	2.5
1	K	66	SER	2.5
3	D	1095	THR	2.5
3	N	1119	SER	2.5

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Mol	Chain	Res	Type	RSRZ
3	N	1196	THR	2.5
2	M	1020	PRO	2.5
1	A	19	GLU	2.5
2	C	491	GLU	2.5
2	C	998	TYR	2.5
3	D	163	TYR	2.5
3	N	372	ASP	2.5
3	N	544	TYR	2.5
2	M	108	ILE	2.5
3	N	565	ILE	2.5
1	B	211	LEU	2.5
2	M	211	LEU	2.5
1	L	171	PHE	2.5
3	N	125	GLN	2.5
1	L	56	VAL	2.5
3	D	213	VAL	2.5
3	D	35	ARG	2.5
3	D	1428	ALA	2.5
3	N	1451	ALA	2.5
3	N	1191	PRO	2.4
3	N	190	GLU	2.4
2	M	722	ILE	2.4
2	M	1040	LEU	2.4
3	D	554	LEU	2.4
3	D	582	LEU	2.4
5	F	408	LEU	2.4
3	D	1293	PHE	2.4
2	C	516	ARG	2.4
1	K	38	ASN	2.4
5	F	368	VAL	2.4
2	M	132	ALA	2.4
2	C	489	THR	2.4
1	B	93	SER	2.4
2	M	85	GLU	2.4
3	N	848	GLU	2.4
3	D	418	GLY	2.4
2	C	323	ASP	2.4
2	C	496	ILE	2.4
2	M	283	ILE	2.4
5	P	221	ILE	2.4
1	L	82	LEU	2.4
2	C	100	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
2	M	214	TYR	2.4
2	M	313	LEU	2.4
2	M	367	LEU	2.4
2	M	737	LEU	2.4
3	N	637	LEU	2.4
5	P	410	TYR	2.4
1	K	148	VAL	2.4
2	C	603	VAL	2.4
2	M	32	ALA	2.4
3	D	391	ALA	2.4
1	B	29	GLU	2.4
1	K	77	GLU	2.4
2	M	123	GLU	2.4
2	M	1012	PRO	2.4
3	D	876	SER	2.4
3	D	1119	SER	2.4
3	D	1228	SER	2.4
3	N	373	PRO	2.4
3	N	942	SER	2.4
5	P	168	LYS	2.4
2	C	1033	GLY	2.4
3	D	43	GLY	2.4
1	B	78	ILE	2.4
2	M	496	ILE	2.4
5	F	192	LEU	2.4
2	M	148	PHE	2.4
3	N	1241	PHE	2.4
2	C	579	VAL	2.4
3	D	863	VAL	2.4
3	D	21	TRP	2.4
3	D	228	ALA	2.4
1	A	206	THR	2.4
1	B	216	GLU	2.4
3	D	170	PRO	2.4
3	D	1073	SER	2.4
3	N	1210	SER	2.4
1	L	37	GLY	2.4
2	M	156	GLY	2.4
3	D	1244	GLY	2.4
3	N	1385	GLY	2.4
4	O	5	GLY	2.4
5	F	322	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
2	M	777	ILE	2.4
4	O	92	ILE	2.4
1	L	127	LEU	2.4
1	L	161	ARG	2.4
2	C	66	LEU	2.4
2	C	668	LEU	2.4
3	D	41	ARG	2.4
3	D	1403	LEU	2.4
3	N	1130	ARG	2.4
3	N	1346	ARG	2.4
4	O	40	LEU	2.4
3	N	1204	CYS	2.4
2	M	1087	VAL	2.4
5	P	217	ASN	2.4
2	C	59	LYS	2.4
2	C	828	ALA	2.4
2	M	312	ALA	2.4
3	N	621	LYS	2.4
2	M	210	GLU	2.4
4	E	52	GLU	2.4
2	M	433	THR	2.3
3	D	154	THR	2.3
3	N	1296	SER	2.3
5	F	76	SER	2.3
3	N	1199	GLY	2.3
1	L	62	LEU	2.3
2	C	211	LEU	2.3
2	M	193	LEU	2.3
3	D	983	LEU	2.3
3	N	141	ILE	2.3
3	D	78	VAL	2.3
3	D	578	VAL	2.3
3	D	1307	LYS	2.3
5	F	196	VAL	2.3
2	C	130	ASN	2.3
2	C	499	ALA	2.3
3	N	954	ALA	2.3
3	N	1285	GLU	2.3
3	N	1309	ALA	2.3
3	N	97	THR	2.3
3	N	230	TRP	2.3
2	C	274	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	436	GLY	2.3
2	M	1029	GLY	2.3
1	A	122	ILE	2.3
2	C	44	ILE	2.3
2	C	325	ILE	2.3
3	N	839	LEU	2.3
3	N	952	ASP	2.3
4	O	14	ASP	2.3
2	M	1035	MET	2.3
2	C	148	PHE	2.3
3	D	828	LYS	2.3
3	D	982	PHE	2.3
1	L	144	VAL	2.3
2	C	158	TYR	2.3
2	C	514	VAL	2.3
2	M	309	TYR	2.3
1	A	38	ASN	2.3
1	B	210	ALA	2.3
2	M	119	PRO	2.3
3	N	707	THR	2.3
2	M	39	ARG	2.3
2	M	432	ARG	2.3
5	P	178	ARG	2.3
1	L	187	GLY	2.3
2	C	337	GLY	2.3
2	M	282	GLY	2.3
2	M	561	GLY	2.3
2	C	339	LEU	2.3
2	M	120	LEU	2.3
2	M	773	LEU	2.3
3	D	470	LEU	2.3
3	N	1072	ILE	2.3
2	M	1058	ASP	2.3
3	D	155	ASP	2.3
5	P	331	ASP	2.3
3	N	1314	LYS	2.3
5	F	417	LYS	2.3
2	C	684	PHE	2.3
3	N	376	GLU	2.3
3	N	564	GLU	2.3
5	P	293	GLU	2.3
2	M	370	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	488	ALA	2.3
2	M	947	ALA	2.3
3	N	957	PRO	2.3
5	F	284	ARG	2.3
2	C	335	THR	2.3
2	M	979	THR	2.3
1	L	149	GLY	2.3
2	C	829	GLN	2.3
2	C	25	SER	2.3
1	B	115	LEU	2.3
2	M	136	ILE	2.3
3	D	242	LEU	2.3
5	P	373	LYS	2.3
1	B	114	PHE	2.3
2	C	205	GLU	2.3
2	C	527	GLU	2.3
3	N	1504	GLU	2.3
1	A	87	VAL	2.3
2	C	427	VAL	2.3
1	B	139	ASN	2.2
3	D	760	ARG	2.3
3	N	159	ARG	2.3
3	N	613	ARG	2.3
3	N	203	ALA	2.2
3	N	1303	TYR	2.3
2	M	476	GLY	2.2
3	N	636	GLN	2.2
5	P	175	HIS	2.2
1	A	218	LEU	2.2
1	B	48	ILE	2.2
2	C	467	ILE	2.2
2	M	98	LEU	2.2
2	M	118	ILE	2.2
2	C	736	ASP	2.2
3	N	1315	ASP	2.2
2	C	2	GLU	2.2
2	M	421	GLU	2.2
5	F	412	GLU	2.2
3	D	535	PHE	2.2
2	C	192	PRO	2.2
2	C	484	VAL	2.2
2	M	643	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
3	D	718	PRO	2.2
3	D	838	ARG	2.2
3	N	864	VAL	2.2
3	N	866	VAL	2.2
5	F	100	VAL	2.2
3	D	59	ALA	2.2
3	N	1453	ALA	2.2
2	M	343	GLN	2.2
2	C	184	MET	2.2
3	N	981	GLY	2.2
5	P	85	LEU	2.2
5	P	126	LEU	2.2
1	K	122	ILE	2.2
2	M	1057	SER	2.2
5	P	310	ILE	2.2
3	D	1346	ARG	2.2
1	K	8	ALA	2.2
2	C	272	ALA	2.2
2	C	277	ALA	2.2
1	A	15	THR	2.2
2	C	80	GLN	2.2
5	F	263	HIS	2.2
2	C	487	THR	2.2
3	N	834	THR	2.2
5	F	347	GLN	2.2
2	M	307	LEU	2.2
3	D	520	LEU	2.2
4	E	73	LEU	2.2
4	O	73	LEU	2.2
5	P	354	LEU	2.2
3	D	141	ILE	2.2
3	D	761	ILE	2.2
2	M	403	SER	2.2
2	M	771	GLU	2.2
2	M	1031	ARG	2.2
5	F	128	ARG	2.2
2	M	369	PRO	2.2
1	K	142	VAL	2.2
3	D	231	VAL	2.2
3	D	447	VAL	2.2
2	C	315	ALA	2.2
2	C	593	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
3	N	100	ALA	2.2
5	F	252	ALA	2.2
5	P	417	LYS	2.2
3	N	569	ASN	2.2
2	C	1019	GLN	2.2
3	D	616	GLN	2.2
1	K	2	LEU	2.2
2	C	757	GLY	2.2
3	N	163	TYR	2.2
3	N	612	GLY	2.2
3	N	1040	GLY	2.2
3	N	1206	GLY	2.2
3	N	1356	TYR	2.2
4	O	30	LEU	2.2
5	P	194	LEU	2.2
3	D	112	ILE	2.2
3	D	1291	SER	2.2
5	F	351	SER	2.2
3	N	476	GLU	2.2
2	M	802	ARG	2.2
3	D	1473	PRO	2.2
2	M	311	PHE	2.2
3	N	982	PHE	2.2
1	K	87	VAL	2.1
3	N	1099	VAL	2.1
2	C	712	ALA	2.1
2	M	29	ALA	2.1
2	M	509	ALA	2.1
2	M	1030	GLN	2.1
3	D	573	MET	2.1
5	P	112	ALA	2.1
3	D	161	LEU	2.1
3	N	164	GLY	2.1
2	M	494	TYR	2.1
3	N	215	TYR	2.1
5	F	243	ILE	2.1
1	A	119	ASP	2.1
2	M	133	ASP	2.1
5	F	117	SER	2.1
5	F	331	ASP	2.1
1	K	92	PRO	2.1
2	C	305	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
2	C	769	PRO	2.1
4	O	94	PRO	2.1
5	F	80	PRO	2.1
1	B	65	PHE	2.1
2	M	474	VAL	2.1
3	N	431	VAL	2.1
3	N	437	VAL	2.1
5	P	110	MET	2.1
2	C	96	ALA	2.1
2	C	1042	ALA	2.1
3	N	391	ALA	2.1
3	N	824	ASN	2.1
1	A	190	THR	2.1
2	C	433	THR	2.1
2	C	933	GLY	2.1
2	M	66	LEU	2.1
2	M	951	GLY	2.1
3	D	803	GLY	2.1
3	D	1286	THR	2.1
3	N	983	LEU	2.1
4	E	30	LEU	2.1
2	M	13	ILE	2.1
2	M	726	ILE	2.1
2	M	1111	ILE	2.1
3	D	1072	ILE	2.1
1	B	41	ARG	2.1
3	N	374	GLU	2.1
1	K	126	ASP	2.1
2	C	1014	SER	2.1
2	M	1112	PHE	2.1
3	D	755	ALA	2.1
2	C	241	LEU	2.1
2	M	64	LEU	2.1
2	M	723	THR	2.1
2	M	875	GLY	2.1
2	M	918	LEU	2.1
2	C	357	GLU	2.1
2	C	458	TYR	2.1
3	N	236	TYR	2.1
3	N	1039	CYS	2.1
4	E	46	PRO	2.1
5	F	124	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	142	VAL	2.1
1	B	75	VAL	2.1
1	B	109	VAL	2.1
1	K	65	PHE	2.1
2	M	146	VAL	2.1
3	D	1099	VAL	2.1
3	D	1292	VAL	2.1
1	B	214	ALA	2.1
2	M	660	ALA	2.1
3	D	454	ALA	2.1
1	L	45	LEU	2.1
2	C	418	LEU	2.1
2	C	737	LEU	2.1
2	M	131	GLY	2.1
2	M	308	ARG	2.1
3	D	159	ARG	2.1
3	D	212	ARG	2.1
5	P	192	LEU	2.1
2	M	933	GLY	2.1
2	C	723	THR	2.1
3	N	375	GLU	2.1
1	B	43	ILE	2.1
2	C	295	ASP	2.1
3	D	205	TYR	2.1
3	D	1488	ASP	2.1
1	K	4	SER	2.1
3	D	596	SER	2.1
5	P	236	SER	2.1
1	B	166	PRO	2.1
2	C	659	PRO	2.1
3	N	39	PRO	2.1
3	N	826	PRO	2.1
2	C	434	HIS	2.1
3	D	1359	GLN	2.0
1	K	214	ALA	2.0
1	L	169	ALA	2.0
2	C	160	ALA	2.0
2	M	472	ARG	2.0
2	M	515	ALA	2.0
3	N	516	ALA	2.0
3	N	562	ALA	2.0
5	P	128	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
5	P	246	ALA	2.0
1	K	85	LEU	2.0
1	K	99	LEU	2.0
1	L	40	LEU	2.0
2	C	193	LEU	2.0
3	N	557	LEU	2.0
3	N	831	GLY	2.0
4	O	95	GLY	2.0
1	B	165	ILE	2.0
5	P	376	ILE	2.0
2	C	202	TYR	2.0
2	C	470	PRO	2.0
2	M	150	PRO	2.0
4	E	29	GLN	2.0
1	K	225	PHE	2.0
2	C	466	PHE	2.0
3	N	572	ARG	2.0
2	M	290	LEU	2.0
2	M	668	LEU	2.0
3	N	204	LEU	2.0
3	N	1041	LEU	2.0
5	F	85	LEU	2.0
5	P	250	ALA	2.0
5	F	365	GLU	2.0
2	C	1029	GLY	2.0
2	M	1033	GLY	2.0
3	D	617	ASN	2.0
2	C	1017	THR	2.0
2	M	611	ILE	2.0
2	M	1071	ILE	2.0
3	D	834	THR	2.0
3	N	606	ILE	2.0
4	E	92	ILE	2.0
5	P	237	THR	2.0
5	P	247	ILE	2.0
2	C	87	ASP	2.0
2	M	248	PRO	2.0
5	P	314	PRO	2.0
2	C	214	TYR	2.0
2	M	258	TYR	2.0
3	D	23	TYR	2.0
3	N	128	TYR	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

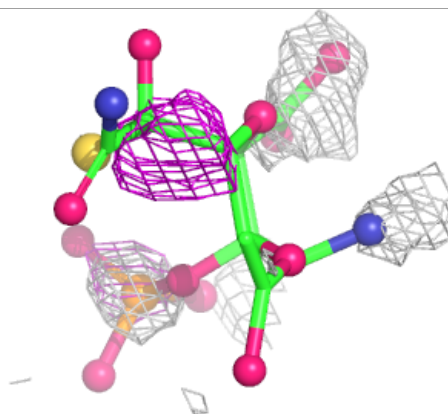
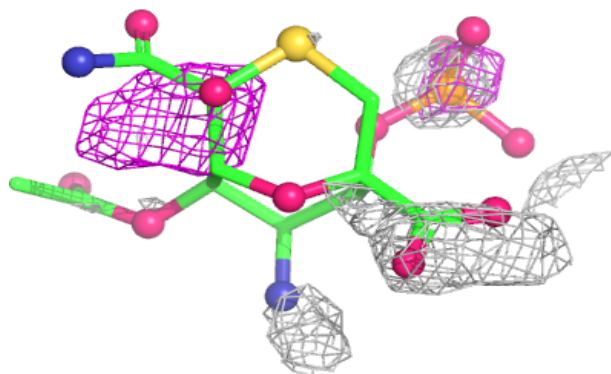
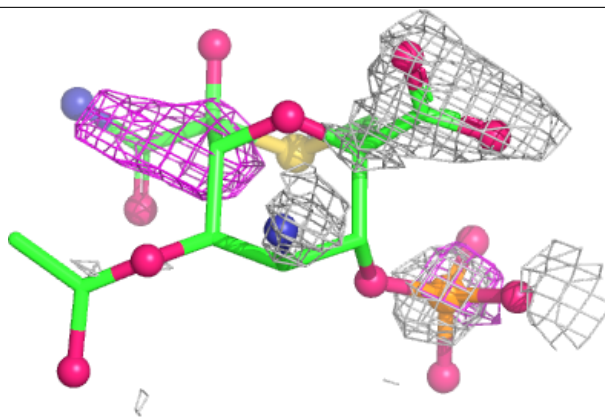
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
8	TGT	D	9001	26/26	0.92	0.21	44,47,50,52	0
8	TGT	N	9002	26/26	0.92	0.22	41,47,51,52	0
6	MG	N	9005	1/1	0.99	0.06	13,13,13,13	0
6	MG	N	9006	1/1	0.99	0.07	4,4,4,4	0
7	ZN	D	9058	1/1	0.99	0.02	56,56,56,56	0
6	MG	C	9004	1/1	0.99	0.03	17,17,17,17	0
6	MG	D	9003	1/1	0.99	0.05	17,17,17,17	0
7	ZN	N	9113	1/1	1.00	0.01	41,41,41,41	0
7	ZN	D	9112	1/1	1.00	0.03	50,50,50,50	0
7	ZN	N	9059	1/1	1.00	0.04	42,42,42,42	0

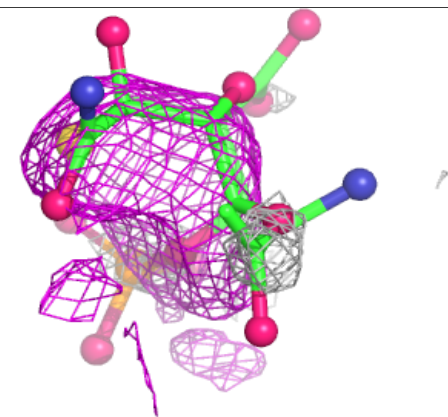
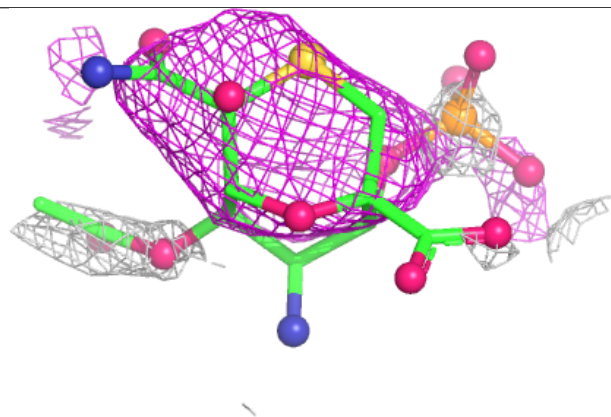
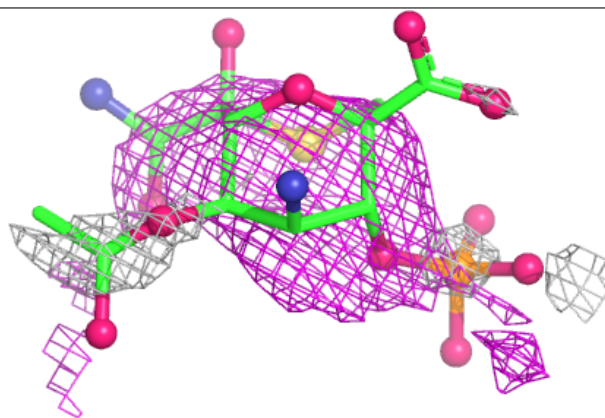
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around TGT D 9001:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around TGT N 9002:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.