



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 02:10 PM GMT

PDB ID : 3W9I
Title : Structural basis for the inhibition of bacterial multidrug exporters
Authors : Sakurai, K.; Nakashima, R.; Hayashi, K.; Yamaguchi, A.
Deposited on : 2013-04-04
Resolution : 2.71 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

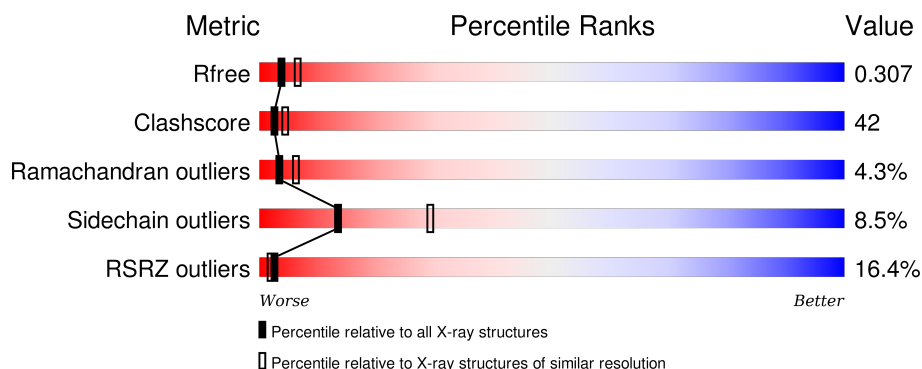
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.71 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}	91344	2439 (2.74-2.70)
Clashscore	102246	2771 (2.74-2.70)
Ramachandran outliers	100387	2726 (2.74-2.70)
Sidechain outliers	100360	2727 (2.74-2.70)
RSRZ outliers	91569	2443 (2.74-2.70)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	1046	
1	B	1046	
1	C	1046	
1	D	1046	
1	E	1046	

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Mol	Chain	Length	Quality of chain
1	F	1046	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	LMT	A	1101	-	-	-	X
2	LMT	A	1102	-	-	-	X
2	LMT	B	2001	-	-	-	X
2	LMT	B	2002	-	-	-	X
2	LMT	C	2001	-	-	-	X
2	LMT	C	2002	-	-	-	X
2	LMT	D	2001	-	-	-	X
2	LMT	D	2002	-	-	-	X
2	LMT	D	2003	-	-	-	X
2	LMT	E	2001	-	-	X	X
2	LMT	E	2002	-	-	X	X
2	LMT	E	2003	-	-	-	X
2	LMT	F	2002	-	-	-	X

2 Entry composition [i](#)

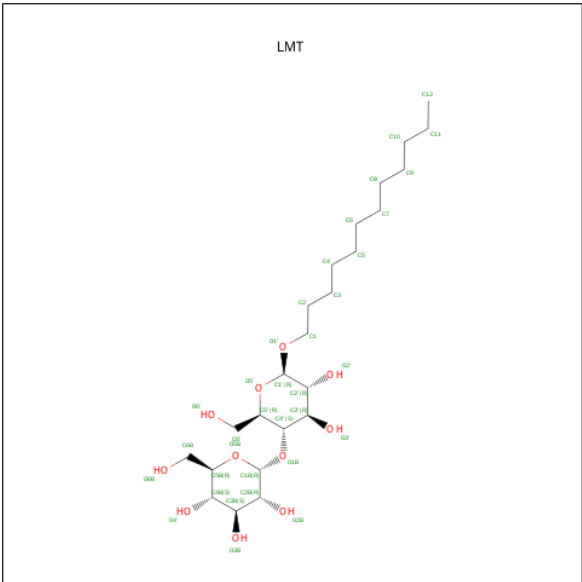
There are 3 unique types of molecules in this entry. The entry contains 47305 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Multidrug resistance protein MexB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1017	Total	C	N	O	S	0	0	0
			7718	4972	1279	1427	40			
1	B	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	C	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	D	1020	Total	C	N	O	S	0	0	0
			7744	4990	1283	1431	40			
1	E	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	F	1033	Total	C	N	O	S	0	0	0
			7840	5046	1302	1452	40			

- Molecule 2 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 35 24 11	0	0
2	A	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	C	1	Total C O 35 24 11	0	0
2	C	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	F	1	Total C O 35 24 11	0	0
2	F	1	Total C O 35 24 11	0	0

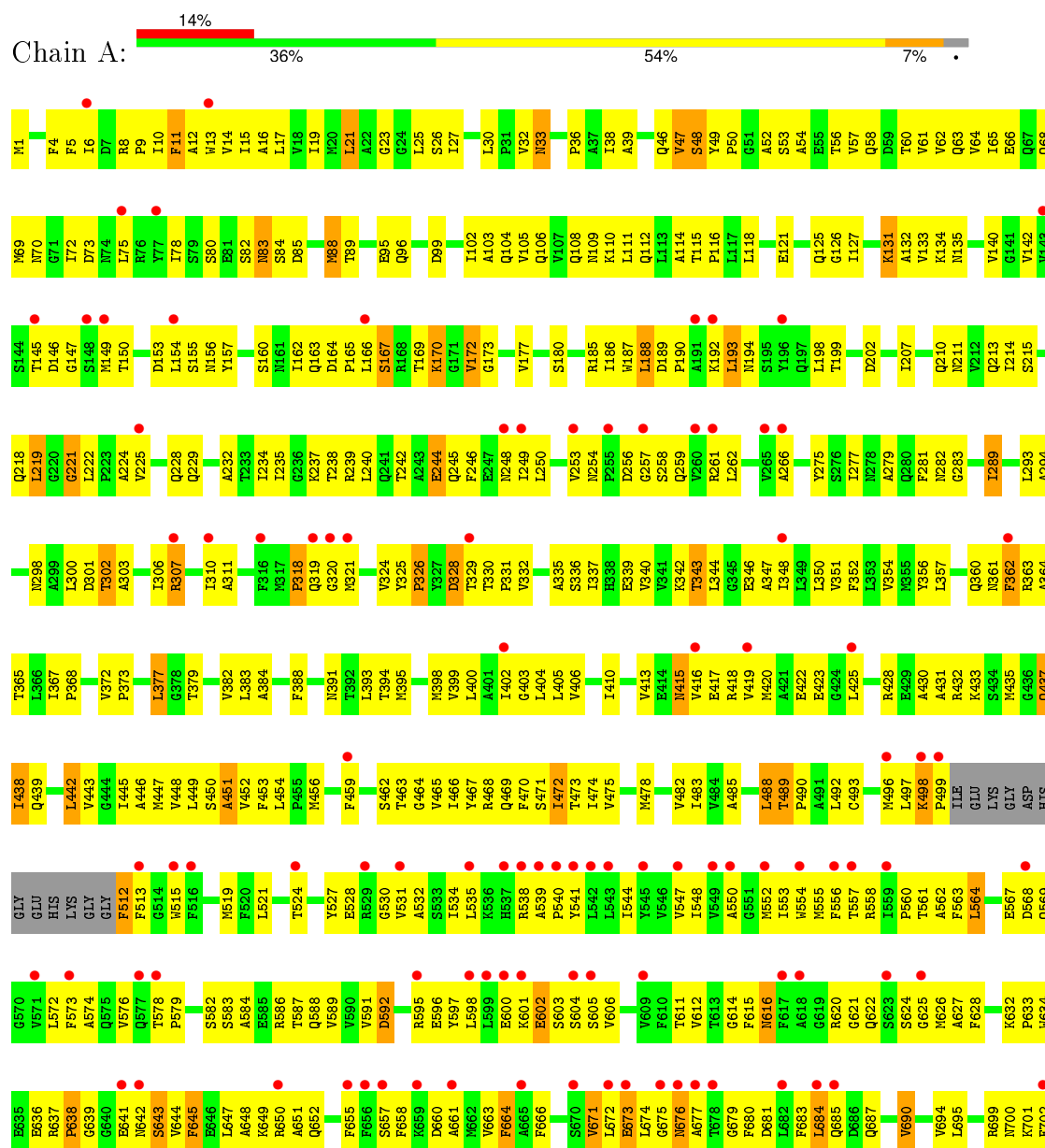
- Molecule 3 is water.

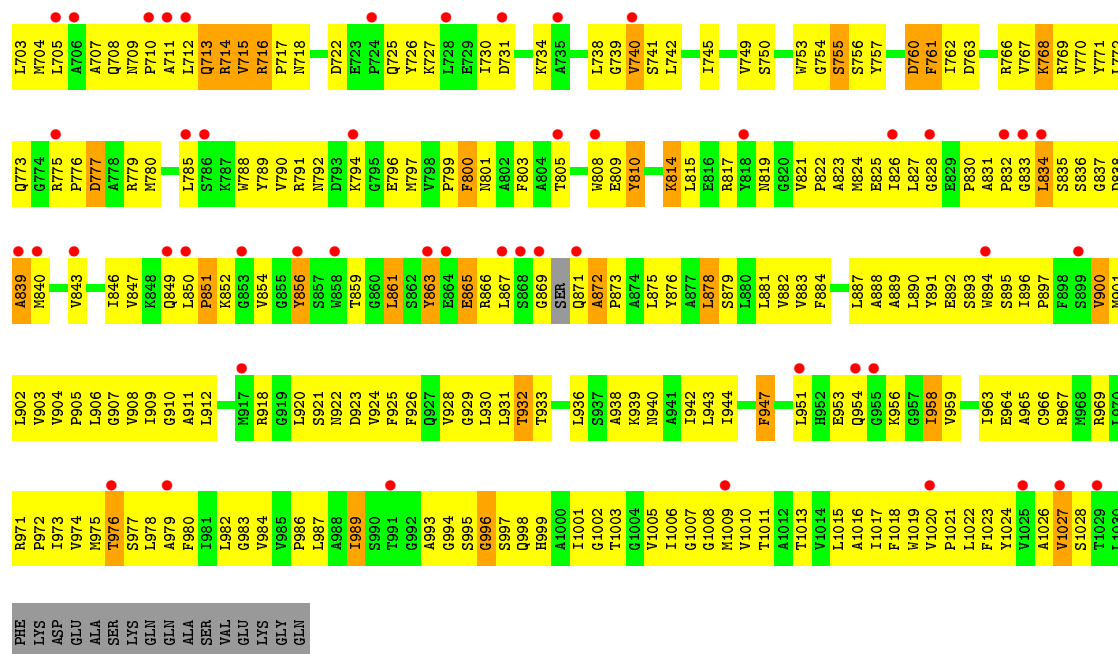
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total O 1 1	0	0
3	B	3	Total O 3 3	0	0
3	C	1	Total O 1 1	0	0
3	D	2	Total O 2 2	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

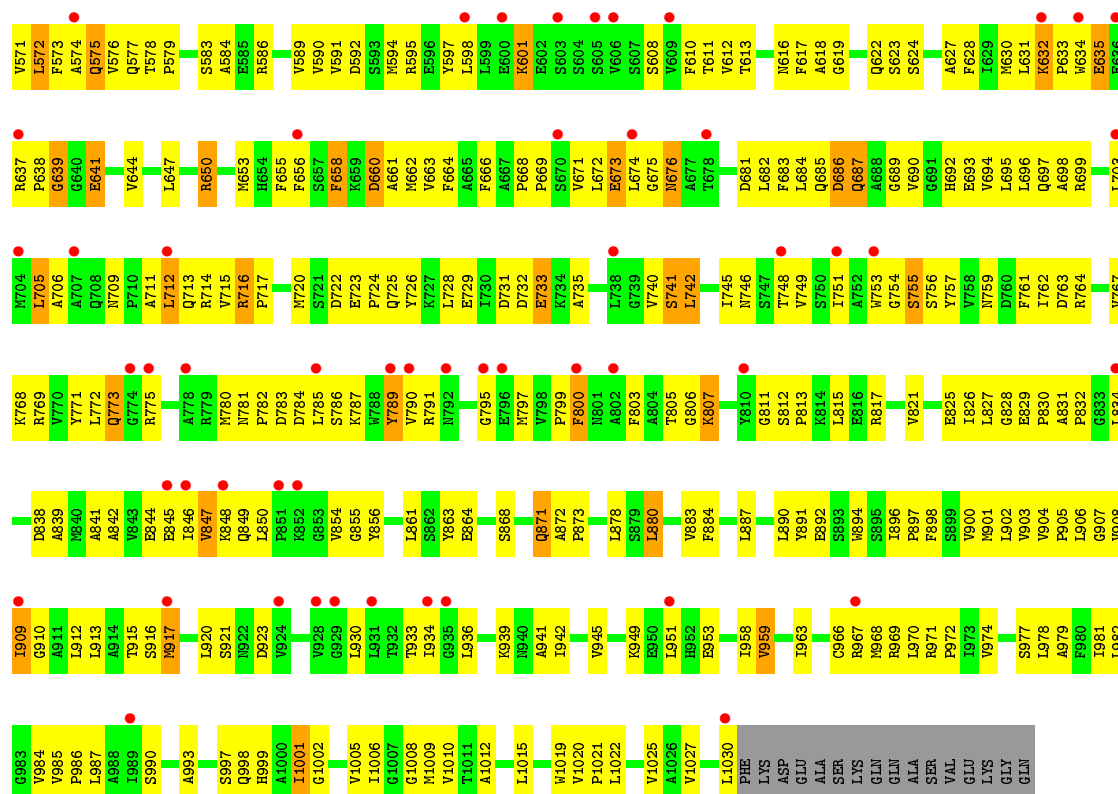
• Molecule 1: Multidrug resistance protein MexB



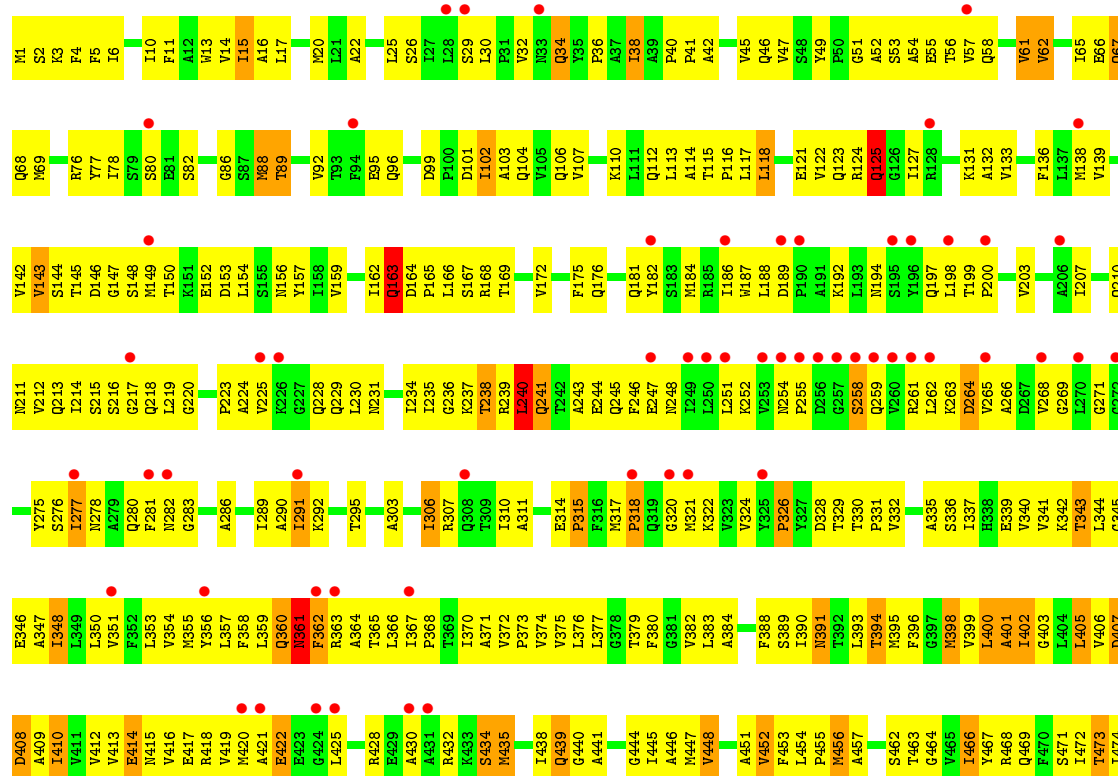


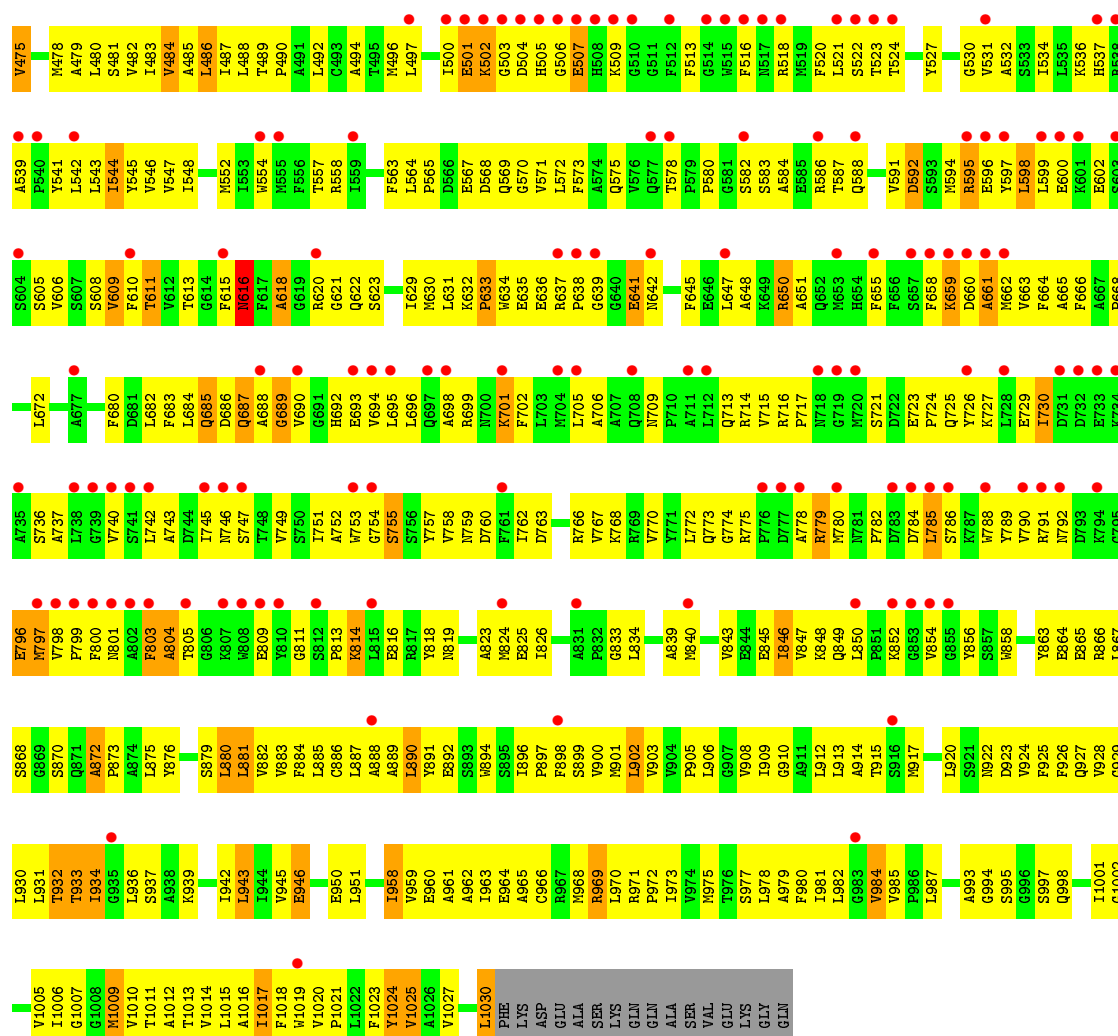
• Molecule 1: Multidrug resistance protein MexB





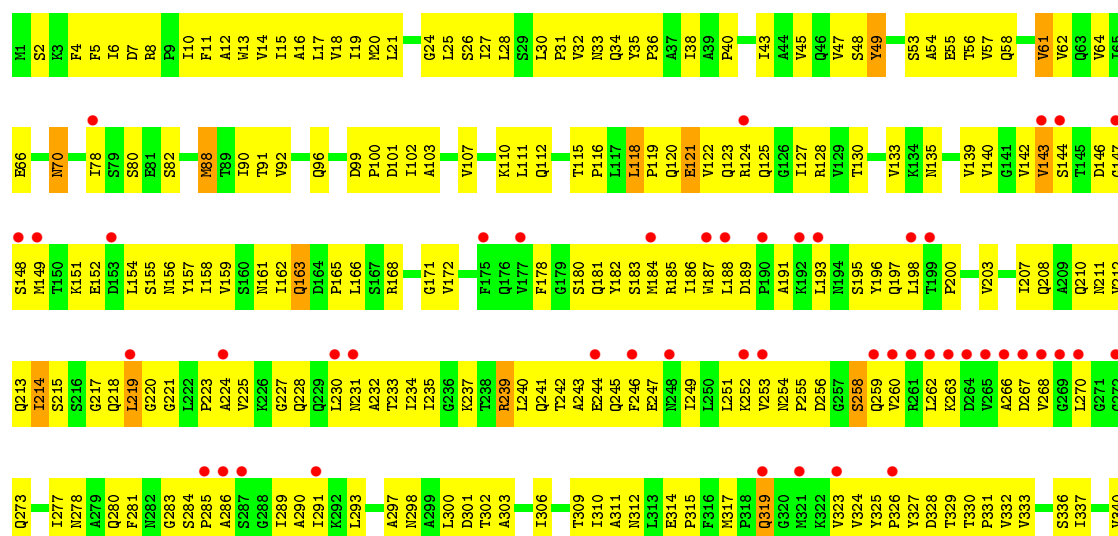
• Molecule 1: Multidrug resistance protein MexB

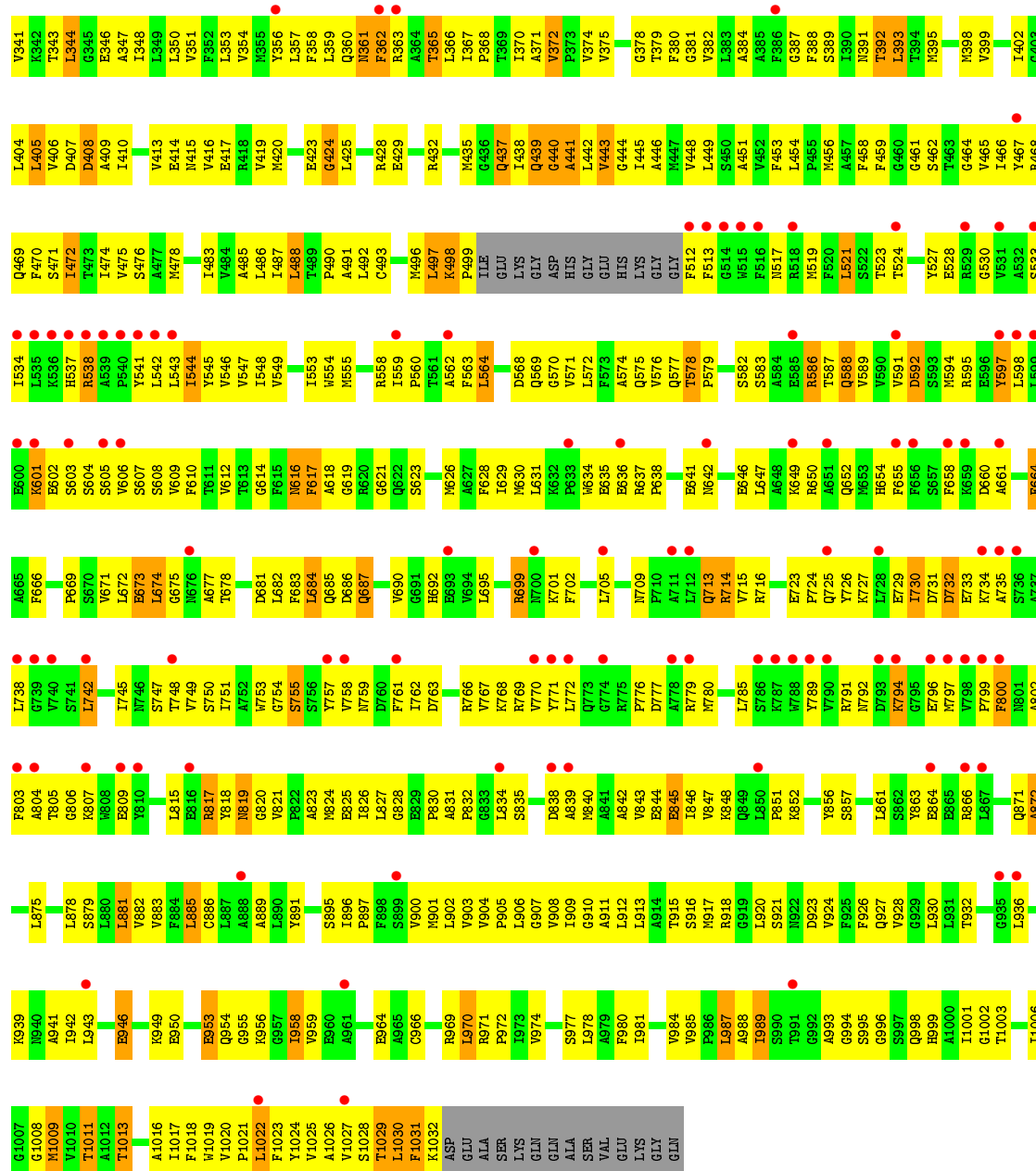




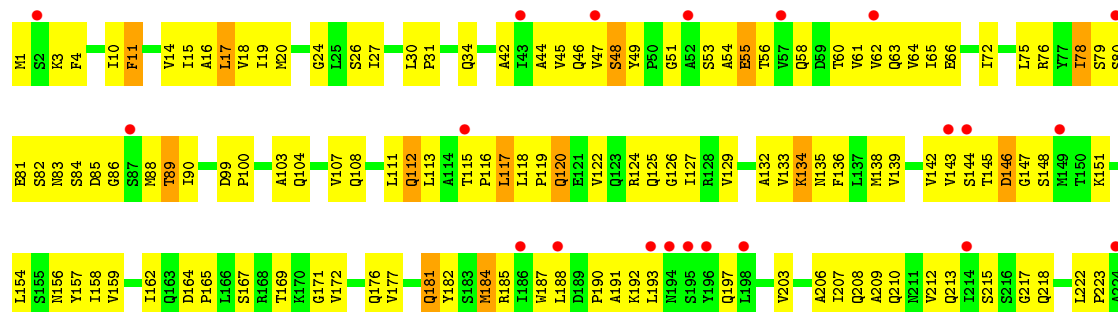
• Molecule 1: Multidrug resistance protein MexB

Chain D: 15% 36% 54% 7%





• Molecule 1: Multidrug resistance protein MexB



V1019	K939	L875	E809	Q739	G679	N616	I544	V482	V412	L344	S276	Q213	T145
V1020	K940	L876	Y810	V740	F680	F617	I545	I483	V413	G945	I277	I214	D146
P1021	A941	L880	G811	S741	D681	A618	V546	V494	E417	G946	N278	S216	G147
L1022	I942	L881	S812	L742	L682	G619	V547	A485	R418	A347	A279	S216	S148
F1023	L943	L882	P813	A743	L683	I620	I548	I486	R418	L348	Q280	Q217	M149
Y1024	L944	V882	K814	D744	L684	G621	V549	I487	V419	I349	F281	Q218	T150
V1025	V945	V883	L815	I745	G685	Q622	V550	I488	W420	L350	N282	L219	K151
A1026	E946	L884	E816	N746	D686	Q623	M552	T489	W421	V351	G283	G220	E152
V1027	F947	L885	R817	N747	G687	S623	I553	P490	E422	V352	S284	G220	D153
L1030	E950	C886	Y818	T748	A688	G625	M554	A491	W423	V354	P285	P223	L154
F1031	K954	L887	N819	V749	G689	W626	M555	L492	Q424	K355	A286	A224	S155
K1032	Q954	A888	P822	S750	V690	A627	B558	Q493	L425	Y356	S287	V225	N156
D1033	L890	A889	P823	I751	G691	F628	B559	L497	R428	F358	I289	Q228	I158
GLU	L891	E892	A823	A752	H682	L629	I559	K498	R429	F359	A290	Q229	I159
ALA	E893	E825	W624	W753	E693	W630	P560	P499	A430	Q360	A291	Q229	S160
SER	E894	E826	G625	G754	F694	L631	T561	P499	A431	N361	I291	N231	I230
LYS	S893	S893	I826	S755	L695	G632	A562	I500	A432	F362	K292	A232	D164
GLN	W894	L827	L827	V758	L696	W634	F563	E501	K433	R363	A294	T293	P165
GLN	S895	S895	G828	N759	G697	W635	L564	K502	K434	A364	A295	I234	L166
ALA	L896	L896	E829	W759	A698	E636	D568	G503	W435	T365	G296	I235	S167
ALA	R897	R897	P830	W759	A699	E637	Q569	H505	Q436	L366	A297	G236	R168
SER	F898	F898	A831	I762	W700	W637	Q570	H506	Q437	L367	N298	K237	T169
VAL	S899	S899	E831	D763	F702	W638	V571	G507	W438	P368	A299	T238	I169
GLU	W974	W900	L834	W763	F703	W640	L572	H508	Q439	T369	L300	R299	V172
LYS	W975	M901	L835	K768	L703	W641	L573	K509	Q440	I370	D301	R299	V172
GLY	W976	L902	G837	W769	W784	W642	F573	K510	Q441	I371	A302	L240	V177
GLN	F980	V903	D838	Q773	L705	W643	V576	G511	W446	V372	I303	Q241	F178
F981	P905	V904	A839	W773	A706	S643	T577	F512	W447	P373	A302	T242	F178
L982	L906	P906	W840	A778	A707	W644	T578	F513	W448	V374	I306	A243	Y182
G983	G907	G907	A841	W779	W708	W645	Q579	F514	W449	V375	I306	Q245	S183
V984	V908	V908	W842	W780	P710	W646	G581	G515	L449	V376	I310	Q246	M184
V985	V909	V909	E844	W781	A711	W647	S582	F516	W452	L377	A311	T249	S184
P986	P911	P911	E845	W782	L712	W648	A584	N517	F453	G378	N312	L249	I186
L987	L912	L912	W847	D783	W713	W649	A584	N518	L454	T379	L313	L250	I187
S990	L913	L913	K848	W784	R714	W650	G584	M519	P455	F380	E314	L251	L188
T991	A914	A914	Q849	W785	W715	W651	T587	F520	W456	G381	P315	K252	D189
S995	T915	T915	L850	W786	R716	W652	G587	L521	A457	V382	F316	Y253	P190
S996	S916	S916	P851	W787	R717	W653	S588	S522	Q461	F388	M317	N254	A191
S997	L920	L920	G853	W788	W718	W654	D592	T523	Q462	N391	P318	P255	L192
Q998	S921	S921	V854	W789	W720	W655	M594	T524	W463	G320	G257	D256	L193
H999	I922	I922	G855	R791	S721	D660	B595	H525	Q464	T392	M321	G257	N194
A1000	D923	D923	Y856	N792	D722	A661	E596	G526	W465	L393	K322	Q259	Y196
I1001	V924	V924	S857	D793	E723	A662	T597	Y527	W466	T394	V323	V260	Q197
T1006	F925	F925	W858	K794	P724	W663	L598	E528	W467	F396	V324	R261	L198
G1007	F926	F926	T859	G795	Q725	A665	L599	H529	R468	Q469	Y325	L262	T199
S1008	G927	G927	W860	W797	Y726	W666	E600	V531	Q469	F396	K326	K263	P200
G1009	V928	V928	G860	W798	K727	W667	K601	A532	W470	L400	Y327	D264	G201
M1009	G929	G929	L861	P799	E728	W668	E602	S533	W471	L401	G328	V265	D202
L1010	L930	L930	S862	F800	W730	P669	S603	I534	L472	I402	T329	A266	V203
A1012	L931	L931	E864	N801	D731	P670	S604	L535	W473	G403	T330	D267	S204
T1013	T932	T932	E865	A802	W732	W671	S605	K536	L474	L404	V268	V268	S205
V1014	T933	T933	F803	A803	D733	W672	V606	H537	W475	L405	P331	V268	A206
L1015	L934	L934	F804	L872	E733	W673	S607	R538	W476	V406	V332	G269	L207
L1016	G935	G935	A804	L873	K734	W674	S608	A539	W477	D407	V333	G271	Q208
T1017	S937	S937	A872	T805	A735	W675	W612	P540	W478	D408	V340	G272	A209
F1018	F1018	F1018	P873	K807	W736	W676	V612	F541	W479	A409	V341	Q273	Q210
			A874	W808	L738	W678	V612	L543	W481	L480	T343	D274	M211
												Y275	Y212

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	124.81Å 133.98Å 150.47Å 87.14° 69.49° 88.54°	Depositor
Resolution (Å)	48.33 – 2.71 48.33 – 2.71	Depositor EDS
% Data completeness (in resolution range)	97.0 (48.33-2.71) 95.8 (48.33-2.71)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.12 (at 2.73Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.282 , 0.315 0.278 , 0.307	Depositor DCC
R_{free} test set	12073 reflections (5.28%)	DCC
Wilson B-factor (Å ²)	69.8	Xtriage
Anisotropy	0.385	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 81.6	EDS
Estimated twinning fraction	0.000 for -h,k,-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.36$	Xtriage
Outliers	0 of 240857 reflections	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	47305	wwPDB-VP
Average B, all atoms (Å ²)	80.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.37% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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: LMT

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	0.48	0/7873	0.65	0/10701
1	B	0.53	0/7971	0.70	2/10833 (0.0%)
1	C	0.45	0/7971	0.62	1/10833 (0.0%)
1	D	0.45	0/7901	0.63	0/10739
1	E	0.41	0/7971	0.59	0/10833
1	F	0.44	0/8000	0.61	0/10871
All	All	0.46	0/47687	0.63	3/64810 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	686	ASP	CB-CG-OD2	5.92	123.63	118.30
1	C	401	ALA	CB-CA-C	-5.41	101.99	110.10
1	B	432	ARG	NE-CZ-NH2	-5.34	117.63	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	675	GLY	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7718	0	7858	683	0
1	B	7812	0	7944	628	0
1	C	7812	0	7944	758	0
1	D	7744	0	7886	710	0
1	E	7812	0	7944	626	0
1	F	7840	0	7970	668	0
2	A	70	0	92	12	0
2	B	140	0	184	28	0
2	C	70	0	92	18	0
2	D	105	0	138	14	0
2	E	105	0	138	33	0
2	F	70	0	92	8	0
3	A	1	0	0	1	0
3	B	3	0	0	0	0
3	C	1	0	0	0	0
3	D	2	0	0	0	0
All	All	47305	0	48282	3970	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 42.

All (3970) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:142:VAL:HG21	1:E:158:ILE:HD11	1.33	1.10
1:D:454:LEU:CD1	2:D:2001:LMT:H101	1.82	1.09
1:E:435:MET:O	1:E:439:GLN:HB2	1.53	1.09
1:A:343:THR:HG21	1:A:998:GLN:HE22	1.16	1.08
1:B:359:LEU:HD22	1:B:417:GLU:HG2	1.34	1.07
1:D:343:THR:HG21	1:D:998:GLN:HE22	1.21	1.06
1:C:367:ILE:HB	1:C:368:PRO:HD3	1.39	1.03
1:D:1030:LEU:HB3	1:D:1031:PHE:CE2	1.95	1.02
1:E:589:VAL:HA	1:E:592:ASP:HB2	1.42	1.00
1:A:987:LEU:HD23	1:A:998:GLN:HE21	1.27	1.00
1:B:156:ASN:HD22	1:B:182:TYR:H	1.10	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:2001:LMT:H4'	2:F:2001:LMT:O2B	1.63	0.99
1:C:156:ASN:ND2	1:C:182:TYR:H	1.59	0.99
1:D:684:LEU:HD11	1:D:826:ILE:HD12	1.45	0.98
1:E:908:VAL:HG23	1:E:930:LEU:HD11	1.44	0.98
1:E:193:LEU:HD13	1:E:265:VAL:HG13	1.45	0.98
1:A:875:LEU:HD21	1:A:931:LEU:HD11	1.46	0.97
1:C:156:ASN:HD22	1:C:182:TYR:N	1.62	0.97
1:E:953:GLU:OE1	2:E:2002:LMT:H6'1	1.65	0.96
1:A:56:THR:O	1:A:60:THR:HG23	1.65	0.96
1:E:359:LEU:HD22	1:E:417:GLU:HG2	1.44	0.96
1:D:471:SER:O	1:D:475:VAL:HG12	1.64	0.96
1:B:527:TYR:OH	1:B:966:CYS:HB3	1.65	0.96
1:E:905:PRO:HA	1:E:908:VAL:HG12	1.44	0.96
1:B:375:VAL:HG11	1:B:405:LEU:HD11	1.47	0.96
1:E:187:TRP:O	1:E:266:ALA:HB1	1.65	0.96
1:B:298:ASN:HD22	1:B:301:ASP:H	1.11	0.95
1:B:460:GLY:H	1:B:871:GLN:HE22	1.12	0.95
1:D:34:GLN:O	1:D:392:THR:HG22	1.67	0.94
2:F:2002:LMT:O5B	2:F:2002:LMT:H3'	1.64	0.94
1:F:498:LYS:HE3	1:F:498:LYS:H	1.31	0.94
1:D:1025:VAL:O	1:D:1029:THR:HG23	1.68	0.94
1:C:402:ILE:HD12	1:C:403:GLY:H	1.29	0.94
1:F:958:ILE:HD12	1:F:958:ILE:H	1.33	0.94
1:A:574:ALA:HB3	1:A:627:ALA:HB3	1.49	0.94
1:B:156:ASN:ND2	1:B:182:TYR:H	1.65	0.93
1:A:690:VAL:HG21	1:A:694:VAL:HB	1.50	0.93
1:B:445:ILE:HD13	1:B:939:LYS:HG3	1.50	0.93
1:F:82:SER:C	1:F:83:ASN:HD22	1.73	0.92
1:A:210:GLN:HE22	1:A:250:LEU:H	1.16	0.92
1:C:717:PRO:HA	1:C:826:ILE:HG22	1.53	0.91
1:A:393:LEU:HD11	1:A:466:ILE:HG23	1.51	0.91
1:B:134:LYS:HZ2	1:B:134:LYS:H	1.18	0.91
1:D:454:LEU:HD12	2:D:2001:LMT:H101	1.52	0.91
1:B:829:GLU:HB2	1:B:830:PRO:HD2	1.54	0.90
1:B:831:ALA:HB3	1:B:834:LEU:HD12	1.53	0.90
1:E:471:SER:O	1:E:475:VAL:HG12	1.71	0.90
1:F:717:PRO:HA	1:F:826:ILE:HG22	1.52	0.90
1:E:683:PHE:CZ	1:E:825:GLU:HG2	2.06	0.89
1:A:228:GLN:HG2	1:B:780:MET:HE3	1.54	0.89
1:D:943:LEU:HD13	1:D:969:ARG:HH21	1.37	0.89
1:B:171:GLY:HA3	1:B:302:THR:HG22	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:745:ILE:O	1:D:749:VAL:HG23	1.71	0.89
2:B:2001:LMT:O3'	2:B:2001:LMT:H1B	1.71	0.89
1:F:68:GLN:HG3	1:F:114:ALA:HB2	1.52	0.89
1:B:156:ASN:HD22	1:B:182:TYR:N	1.70	0.89
1:D:569:GLN:H	1:D:634:TRP:HH2	1.09	0.89
1:A:293:LEU:HD11	1:A:302:THR:HG21	1.55	0.89
1:F:314:GLU:HA	1:F:317:MET:HE3	1.55	0.89
1:B:616:ASN:ND2	1:B:618:ALA:H	1.71	0.89
1:D:184:MET:HB3	1:D:770:VAL:HG23	1.55	0.88
1:D:911:ALA:O	1:D:915:THR:HG23	1.72	0.88
1:C:248:ASN:HA	1:C:261:ARG:HD3	1.56	0.88
1:F:367:ILE:HB	1:F:368:PRO:HD3	1.53	0.88
1:F:572:LEU:HB3	1:F:629:ILE:HB	1.55	0.88
1:F:730:ILE:HD13	1:F:730:ILE:H	1.39	0.88
1:C:401:ALA:O	1:C:405:LEU:HD23	1.74	0.87
1:C:399:VAL:O	1:C:402:ILE:HG13	1.75	0.87
1:E:678:THR:HG22	1:E:679:GLY:H	1.37	0.87
1:F:716:ARG:NH1	1:F:827:LEU:HB2	1.88	0.87
1:D:18:VAL:HG13	2:E:2002:LMT:H121	1.57	0.87
1:D:641:GLU:HA	1:D:646:GLU:HG2	1.56	0.86
1:B:958:ILE:HG22	1:B:1025:VAL:HG22	1.58	0.86
1:F:732:ASP:HA	1:F:735:ALA:HB3	1.57	0.86
1:C:169:THR:HB	1:C:172:VAL:HG21	1.57	0.86
1:E:447:MET:CE	2:E:2001:LMT:C12	2.53	0.86
1:F:685:GLN:HE21	1:F:857:SER:HB2	1.39	0.86
1:E:240:LEU:HD22	1:E:245:GLN:HB3	1.57	0.86
1:D:953:GLU:HG3	1:D:954:GLN:H	1.40	0.86
1:F:324:VAL:HG23	1:F:326:PRO:HD3	1.56	0.86
1:D:156:ASN:HD21	1:D:768:LYS:HE2	1.39	0.86
1:C:454:LEU:HB2	1:C:455:PRO:HD3	1.58	0.85
1:F:572:LEU:HD11	1:F:648:ALA:HB2	1.58	0.85
1:D:747:SER:O	1:D:751:ILE:HG12	1.77	0.85
1:A:112:GLN:HG3	1:B:112:GLN:NE2	1.90	0.85
1:D:343:THR:HG21	1:D:998:GLN:NE2	1.91	0.85
2:E:2001:LMT:H123	2:E:2002:LMT:H111	1.57	0.85
1:B:478:MET:O	1:B:482:VAL:HG23	1.76	0.85
1:C:686:ASP:HA	1:C:854:VAL:HA	1.58	0.85
1:E:440:GLY:HA3	2:E:2002:LMT:O2'	1.74	0.85
1:C:115:THR:HA	1:C:118:LEU:HD22	1.56	0.85
1:D:1028:SER:O	1:D:1032:LYS:HB2	1.74	0.85
1:F:520:PHE:O	1:F:524:THR:HG23	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:563:PHE:CD2	1:C:564:LEU:HD23	2.11	0.85
1:F:58:GLN:HE22	1:F:815:LEU:HD12	1.42	0.85
1:F:524:THR:HG22	1:F:970:LEU:HD12	1.59	0.85
1:C:219:LEU:HG	1:C:234:ILE:HD11	1.57	0.84
1:E:984:VAL:HG13	1:E:987:LEU:HD12	1.58	0.84
1:D:575:GLN:HB3	1:D:616:ASN:ND2	1.92	0.84
1:A:343:THR:HG21	1:A:998:GLN:NE2	1.90	0.84
1:A:377:LEU:HD21	2:A:1102:LMT:H122	1.59	0.84
1:B:273:GLN:HE22	1:B:769:ARG:HH11	1.21	0.84
1:C:922:ASN:OD1	1:C:926:PHE:HD2	1.61	0.84
1:E:47:VAL:HG22	1:E:127:ILE:HG23	1.59	0.84
1:E:579:PRO:HD3	1:E:660:ASP:O	1.78	0.84
1:B:143:VAL:HG21	1:B:281:PHE:HB3	1.59	0.84
1:E:738:LEU:HD13	1:E:798:VAL:HG11	1.57	0.84
1:C:520:PHE:HA	1:C:523:THR:HG22	1.57	0.84
1:B:595:ARG:HH11	1:B:595:ARG:HG2	1.42	0.84
1:B:1002:GLY:O	1:B:1006:ILE:HG12	1.77	0.84
1:A:780:MET:HE1	1:C:224:ALA:HB1	1.59	0.83
1:A:984:VAL:HG11	1:A:1005:VAL:CG2	2.08	0.83
1:B:139:VAL:CG1	1:B:327:TYR:HB3	2.08	0.83
1:D:669:PRO:HG3	1:D:675:GLY:HA3	1.58	0.83
1:F:156:ASN:HD22	1:F:182:TYR:H	1.22	0.83
1:C:280:GLN:HB2	1:C:611:THR:HG22	1.59	0.83
1:E:326:PRO:HB2	1:E:630:MET:HE2	1.59	0.83
1:B:653:MET:O	1:B:656:PHE:HB3	1.76	0.83
1:A:887:LEU:HD13	1:A:900:VAL:HG11	1.60	0.83
1:B:471:SER:O	1:B:475:VAL:HG13	1.77	0.83
1:B:134:LYS:NZ	1:B:134:LYS:H	1.77	0.82
1:E:643:SER:HB3	1:E:646:GLU:HG2	1.58	0.82
1:C:924:VAL:HA	1:C:927:GLN:NE2	1.94	0.82
1:E:782:PRO:O	1:E:785:LEU:HG	1.79	0.82
1:C:188:LEU:HD21	1:C:203:VAL:HG11	1.60	0.82
1:E:491:ALA:O	1:E:495:THR:HB	1.79	0.82
1:F:928:VAL:O	1:F:932:THR:HG22	1.79	0.82
1:C:46:GLN:HA	1:C:88:MET:HE3	1.60	0.82
1:B:900:VAL:HG23	1:B:941:ALA:HB3	1.60	0.82
1:C:752:ALA:HA	1:C:774:GLY:H	1.44	0.82
1:D:423:GLU:HG3	1:D:425:LEU:CD1	2.09	0.82
1:D:18:VAL:CG1	2:E:2002:LMT:H121	2.10	0.82
1:C:169:THR:HB	1:C:172:VAL:CG2	2.10	0.82
1:E:156:ASN:HD22	1:E:182:TYR:H	1.25	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:909:ILE:HG13	1:D:1011:THR:HG21	1.60	0.82
1:D:156:ASN:ND2	1:D:182:TYR:H	1.78	0.82
1:C:1:MET:N	2:C:2002:LMT:H6E	1.95	0.82
1:D:367:ILE:HB	1:D:368:PRO:HD3	1.62	0.82
1:F:461:GLY:HA3	1:F:867:LEU:HD21	1.61	0.81
1:C:1:MET:N	2:C:2002:LMT:C6'	2.42	0.81
1:E:447:MET:CE	2:E:2001:LMT:H121	2.11	0.81
1:F:452:VAL:HG22	1:F:883:VAL:HG21	1.62	0.81
1:E:447:MET:HE3	2:E:2001:LMT:C12	2.10	0.81
1:A:780:MET:SD	1:C:220:GLY:HA2	2.20	0.81
1:E:479:ALA:O	1:E:483:ILE:HG13	1.81	0.81
1:D:405:LEU:C	1:D:405:LEU:HD12	2.01	0.81
1:D:372:VAL:HA	1:D:405:LEU:HD21	1.63	0.81
1:C:351:VAL:HG12	1:C:355:MET:HE2	1.63	0.81
1:B:56:THR:O	1:B:60:THR:HB	1.80	0.80
1:F:343:THR:HG21	1:F:998:GLN:HE22	1.46	0.80
1:E:598:LEU:HD12	1:E:606:VAL:HG21	1.61	0.80
1:D:329:THR:O	1:D:332:VAL:HG12	1.82	0.80
1:B:282:ASN:C	1:B:595:ARG:HD2	2.02	0.80
1:F:27:ILE:HG22	1:F:27:ILE:O	1.81	0.80
1:B:198:LEU:HD21	1:B:252:LYS:HD2	1.63	0.80
1:B:243:ALA:HB1	1:B:268:VAL:HG12	1.62	0.80
1:B:650:ARG:HH11	1:B:650:ARG:HG2	1.45	0.80
1:C:845:GLU:HA	1:C:848:LYS:HE3	1.61	0.80
1:D:575:GLN:HB3	1:D:616:ASN:HD22	1.45	0.80
1:F:562:ALA:O	1:F:923:ASP:HA	1.81	0.80
1:D:78:ILE:HD13	1:D:92:VAL:HG22	1.63	0.80
1:C:686:ASP:HB3	1:C:695:LEU:HD21	1.63	0.80
1:A:792:ASN:HD21	1:A:796:GLU:HB2	1.47	0.80
1:B:900:VAL:O	1:B:903:VAL:HG22	1.82	0.79
1:E:925:PHE:HB3	1:E:1001:ILE:HG23	1.62	0.79
1:B:370:ILE:O	1:B:373:PRO:HD2	1.82	0.79
1:F:535:LEU:HD13	1:F:959:VAL:HG13	1.62	0.79
1:E:785:LEU:HD22	1:E:804:ALA:HB1	1.63	0.79
1:C:1009:MET:HE3	1:C:1009:MET:HA	1.64	0.79
1:B:740:VAL:HG21	1:B:745:ILE:HD11	1.62	0.79
1:C:995:SER:HA	1:C:998:GLN:HG3	1.62	0.79
1:E:185:ARG:NH1	1:E:771:TYR:HB3	1.98	0.79
1:E:905:PRO:HA	1:E:908:VAL:CG1	2.12	0.79
1:A:445:ILE:HD12	1:A:446:ALA:N	1.97	0.79
1:A:1026:ALA:O	1:A:1027:VAL:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:LYS:O	1:A:131:LYS:HG3	1.82	0.79
1:A:47:VAL:HG22	1:A:48:SER:H	1.45	0.79
1:D:742:LEU:H	1:D:742:LEU:HD12	1.48	0.79
1:C:187:TRP:HA	1:C:773:GLN:O	1.83	0.79
1:A:377:LEU:HD13	2:A:1101:LMT:H101	1.65	0.79
1:F:578:THR:HG21	1:F:587:THR:HA	1.65	0.79
1:C:687:GLN:HG3	1:C:688:ALA:H	1.48	0.78
1:E:459:PHE:O	1:E:464:GLY:HA3	1.83	0.78
1:D:562:ALA:O	1:D:923:ASP:HA	1.83	0.78
1:F:207:ILE:HG22	1:F:759:ASN:HD21	1.46	0.78
1:E:690:VAL:CG1	1:E:694:VAL:HB	2.13	0.78
1:C:713:GLN:HE21	1:C:714:ARG:HE	1.31	0.78
1:D:541:TYR:HA	1:D:544:ILE:HG22	1.64	0.78
1:C:368:PRO:HG3	1:C:413:VAL:HG21	1.65	0.78
1:A:584:ALA:H	1:A:622:GLN:HE21	1.32	0.78
1:D:393:LEU:CD1	1:D:466:ILE:HG23	2.14	0.78
1:E:64:VAL:CG2	1:E:118:LEU:HD23	2.12	0.78
1:D:684:LEU:HD12	1:D:684:LEU:N	1.97	0.78
1:C:908:VAL:O	1:C:912:LEU:HG	1.83	0.78
1:A:298:ASN:O	1:A:302:THR:HG23	1.83	0.78
1:F:641:GLU:HB3	1:F:650:ARG:HH12	1.49	0.78
1:D:159:VAL:HA	1:D:163:GLN:HB2	1.63	0.78
1:D:713:GLN:HG3	1:D:714:ARG:HG3	1.66	0.78
1:F:920:LEU:HD23	1:F:1000:ALA:HA	1.66	0.78
1:C:1:MET:H3	2:C:2002:LMT:H6E	1.48	0.77
1:D:827:LEU:HD12	1:D:827:LEU:O	1.84	0.77
1:D:187:TRP:HB2	1:D:267:ASP:HB2	1.66	0.77
1:C:1009:MET:CE	1:C:1009:MET:HA	2.13	0.77
1:C:478:MET:O	1:C:481:SER:HB3	1.84	0.77
1:A:568:ASP:HB3	1:A:634:TRP:CZ3	2.18	0.77
1:C:984:VAL:HG12	1:C:987:LEU:HD12	1.67	0.77
1:B:179:GLY:HA2	2:B:2001:LMT:O1'	1.84	0.77
1:E:47:VAL:HG11	1:E:122:VAL:HG13	1.67	0.77
1:F:10:ILE:O	1:F:14:VAL:HG23	1.85	0.77
1:C:909:ILE:O	1:C:913:LEU:HG	1.84	0.77
1:B:900:VAL:HG21	1:B:942:ILE:HG13	1.67	0.77
1:A:420:MET:HE3	1:A:499:PRO:HG2	1.66	0.77
1:C:565:PRO:HG3	1:C:997:SER:HA	1.66	0.77
1:C:912:LEU:HD23	1:C:926:PHE:HZ	1.48	0.77
1:D:57:VAL:HG13	1:D:82:SER:HB3	1.66	0.77
1:E:448:VAL:O	1:E:452:VAL:HG23	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:347:ALA:O	1:D:351:VAL:HG23	1.83	0.77
1:C:521:LEU:O	1:C:521:LEU:HD23	1.84	0.77
1:B:706:ALA:HB1	1:B:712:LEU:HD12	1.65	0.77
1:C:958:ILE:H	1:C:958:ILE:HD12	1.48	0.77
1:D:1030:LEU:HB3	1:D:1031:PHE:CD2	2.20	0.76
1:F:393:LEU:HD13	1:F:466:ILE:HB	1.67	0.76
1:A:879:SER:O	1:A:883:VAL:HG23	1.84	0.76
1:A:9:PRO:HD2	1:B:892:GLU:OE2	1.85	0.76
1:B:10:ILE:HB	1:C:892:GLU:OE2	1.85	0.76
1:C:435:MET:HE3	1:C:438:ILE:HD11	1.66	0.76
1:D:228:GLN:HE21	1:D:230:LEU:H	1.32	0.76
1:E:108:GLN:O	1:E:111:LEU:HB3	1.83	0.76
1:C:693:GLU:HA	1:C:696:LEU:HD12	1.66	0.76
1:B:364:ALA:HA	1:B:497:LEU:HD11	1.67	0.76
1:D:154:LEU:CD1	1:D:286:ALA:HA	2.16	0.76
1:C:928:VAL:O	1:C:932:THR:HG22	1.84	0.76
1:E:541:TYR:HA	1:E:544:ILE:HG22	1.67	0.76
1:F:740:VAL:HG21	1:F:744:ASP:HB3	1.66	0.76
1:D:454:LEU:HD13	2:D:2001:LMT:H101	1.66	0.76
1:A:229:GLN:HE22	1:B:586:ARG:HH11	1.31	0.76
1:A:598:LEU:O	1:A:602:GLU:HB2	1.85	0.76
1:E:900:VAL:HG23	1:E:941:ALA:HB3	1.65	0.76
1:B:354:VAL:HG12	1:B:978:LEU:HD23	1.67	0.76
1:B:541:TYR:HA	1:B:544:ILE:HG22	1.67	0.76
1:E:683:PHE:CE1	1:E:825:GLU:HG2	2.21	0.76
1:F:150:THR:HG23	1:F:152:GLU:HG2	1.67	0.76
1:E:447:MET:HE1	2:E:2001:LMT:H123	1.66	0.76
1:F:343:THR:HG21	1:F:998:GLN:NE2	2.01	0.76
1:F:518:ARG:HA	1:F:521:LEU:HB3	1.67	0.76
1:B:847:VAL:O	1:B:850:LEU:HG	1.86	0.76
1:A:540:PRO:O	1:A:544:ILE:HG12	1.86	0.76
1:D:879:SER:O	1:D:883:VAL:HG23	1.86	0.76
1:C:637:ARG:HB3	1:C:642:ASN:HB3	1.67	0.76
1:E:579:PRO:HG2	1:E:586:ARG:NH2	2.01	0.75
1:A:568:ASP:HB3	1:A:634:TRP:HZ3	1.51	0.75
1:C:648:ALA:HA	1:C:651:ALA:HB3	1.67	0.75
1:D:215:SER:HB2	1:E:51:GLY:O	1.87	0.75
1:D:242:THR:OG1	1:D:245:GLN:HB2	1.87	0.75
1:B:217:GLY:O	1:B:234:ILE:HG12	1.85	0.75
1:E:668:PRO:HB2	1:E:672:LEU:HD21	1.67	0.75
1:D:346:GLU:O	1:D:350:LEU:HD23	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:453:PHE:HB3	1:C:456:MET:HE2	1.68	0.75
1:A:423:GLU:HB3	1:A:425:LEU:HD13	1.68	0.75
1:C:543:LEU:O	1:C:547:VAL:HG23	1.86	0.75
1:E:953:GLU:OE1	2:E:2002:LMT:C6B	2.35	0.75
1:B:247:GLU:HG2	1:B:268:VAL:HG21	1.68	0.75
1:F:1:MET:HB3	2:F:2001:LMT:O2'	1.86	0.75
1:F:436:GLY:HA2	2:F:2001:LMT:O4'	1.85	0.75
1:F:548:ILE:CG2	1:F:909:ILE:HD13	2.17	0.75
1:E:447:MET:CE	2:E:2001:LMT:H123	2.17	0.75
1:A:293:LEU:CD1	1:A:302:THR:HG21	2.17	0.75
1:D:900:VAL:O	1:D:903:VAL:HG22	1.86	0.75
1:A:780:MET:CE	1:C:224:ALA:HB1	2.16	0.74
1:F:410:ILE:HG12	1:F:976:THR:HG22	1.69	0.74
1:B:78:ILE:HG12	1:B:79:SER:N	2.00	0.74
1:C:391:ASN:H	1:C:394:THR:HG22	1.51	0.74
1:B:441:ALA:O	1:B:445:ILE:HG22	1.87	0.74
1:C:127:ILE:H	1:C:127:ILE:HD12	1.51	0.74
1:F:242:THR:OG1	1:F:245:GLN:HB2	1.86	0.74
1:C:727:LYS:HG2	1:C:729:GLU:HG2	1.67	0.74
1:C:730:ILE:HD13	1:C:730:ILE:H	1.51	0.74
1:A:1024:TYR:O	1:A:1028:SER:HB2	1.88	0.74
1:A:437:GLN:O	1:A:438:ILE:HG12	1.87	0.74
1:C:563:PHE:HB2	1:C:865:GLU:HG2	1.69	0.74
1:E:447:MET:HE1	2:E:2001:LMT:C12	2.15	0.74
1:F:934:ILE:O	1:F:934:ILE:HD12	1.88	0.74
1:B:60:THR:HG23	1:B:119:PRO:HG3	1.69	0.74
1:D:393:LEU:HD13	1:D:466:ILE:HG23	1.70	0.74
1:C:314:GLU:HA	1:C:317:MET:SD	2.27	0.74
1:D:749:VAL:HG22	1:D:753:TRP:HZ3	1.51	0.74
1:C:502:LYS:HD2	1:C:503:GLY:N	2.02	0.74
1:F:53:SER:O	1:F:57:VAL:HG23	1.88	0.74
1:D:568:ASP:HB3	1:D:634:TRP:CZ3	2.21	0.74
1:D:757:TYR:CE1	1:D:769:ARG:HD3	2.23	0.74
1:D:54:ALA:HB1	1:D:815:LEU:HD23	1.68	0.74
1:E:605:SER:OG	1:E:647:LEU:HD21	1.88	0.74
1:D:1025:VAL:O	1:D:1029:THR:CG2	2.35	0.74
1:C:615:PHE:HD1	1:C:620:ARG:HH11	1.36	0.74
1:D:213:GLN:HG3	1:E:56:THR:HG22	1.70	0.74
1:C:447:MET:SD	1:C:886:CYS:HB3	2.27	0.73
1:F:340:VAL:HA	1:F:343:THR:HG23	1.70	0.73
1:B:187:TRP:HA	1:B:773:GLN:O	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:363:ARG:NH2	2:A:1102:LMT:O4'	2.20	0.73
1:E:108:GLN:HB3	1:E:129:VAL:HG11	1.70	0.73
1:C:156:ASN:HD22	1:C:182:TYR:H	0.79	0.73
1:D:759:ASN:O	1:D:770:VAL:HG12	1.88	0.73
1:B:722:ASP:HA	1:B:813:PRO:HD3	1.70	0.73
1:A:156:ASN:OD1	1:A:768:LYS:NZ	2.20	0.73
1:A:210:GLN:HE22	1:A:250:LEU:N	1.85	0.73
1:C:36:PRO:O	1:C:38:ILE:HG23	1.88	0.73
1:B:442:LEU:HA	1:B:445:ILE:HG23	1.69	0.73
1:E:786:SER:HA	1:E:801:ASN:HB3	1.71	0.73
1:D:423:GLU:HG3	1:D:425:LEU:HD13	1.70	0.73
1:C:887:LEU:CD1	1:C:900:VAL:HG21	2.18	0.73
1:F:433:LYS:HG2	1:F:437:GLN:HE21	1.52	0.73
1:E:134:LYS:H	1:E:134:LYS:NZ	1.86	0.73
1:B:878:LEU:HD13	2:B:2004:LMT:H32	1.70	0.73
1:E:650:ARG:HH11	1:E:650:ARG:HB3	1.51	0.73
1:B:631:LEU:CD1	1:B:644:VAL:HG22	2.19	0.73
1:E:680:PHE:HB2	1:E:858:TRP:CZ3	2.24	0.73
1:E:146:ASP:O	1:E:148:SER:N	2.21	0.73
1:E:251:LEU:HD22	1:E:265:VAL:HG21	1.71	0.73
1:E:718:ASN:HB2	1:E:827:LEU:CD1	2.18	0.73
1:D:213:GLN:HE21	1:D:239:ARG:HG3	1.54	0.73
1:E:671:VAL:HG23	1:E:674:LEU:HB3	1.68	0.73
1:E:872:ALA:HB3	1:E:873:PRO:HD3	1.69	0.73
1:F:210:GLN:OE1	1:F:249:ILE:HG23	1.89	0.73
1:E:247:GLU:HB3	1:E:263:LYS:HB3	1.71	0.72
1:F:350:LEU:O	1:F:354:VAL:HG23	1.89	0.72
1:C:544:ILE:O	1:C:547:VAL:HB	1.89	0.72
1:D:953:GLU:CG	1:D:954:GLN:H	2.02	0.72
1:A:85:ASP:OD2	1:A:620:ARG:HD3	1.89	0.72
1:B:725:GLN:CD	1:B:811:GLY:HA3	2.09	0.72
1:E:134:LYS:HZ1	1:E:134:LYS:H	1.37	0.72
1:D:735:ALA:HB2	1:D:803:PHE:HB2	1.70	0.72
1:A:330:THR:OG1	1:A:331:PRO:HD3	1.88	0.72
1:A:584:ALA:HB2	1:A:622:GLN:HB3	1.71	0.72
1:C:752:ALA:O	1:C:773:GLN:HG3	1.88	0.72
1:D:541:TYR:O	1:D:544:ILE:HG22	1.88	0.72
1:B:340:VAL:O	1:B:344:LEU:HG	1.88	0.72
1:D:32:VAL:HG21	1:D:337:ILE:HD13	1.71	0.72
1:B:336:SER:O	1:B:340:VAL:HG23	1.89	0.72
1:D:555:MET:HB2	1:D:912:LEU:HD13	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:306:ILE:HD13	1:C:307:ARG:N	2.04	0.72
1:D:682:LEU:HD23	1:D:826:ILE:O	1.89	0.72
1:B:915:THR:HG23	1:B:920:LEU:HB2	1.71	0.72
1:D:319:GLN:H	1:D:319:GLN:NE2	1.88	0.72
1:D:185:ARG:HH11	1:D:771:TYR:HB2	1.54	0.72
1:A:451:ALA:HB1	1:A:882:VAL:HG12	1.70	0.72
1:A:727:LYS:HD3	1:A:809:GLU:OE1	1.90	0.72
1:A:485:ALA:HA	1:A:489:THR:OG1	1.89	0.72
1:C:354:VAL:HG21	1:C:982:LEU:HD23	1.72	0.72
1:A:377:LEU:HD21	2:A:1102:LMT:C12	2.19	0.72
1:E:156:ASN:HD22	1:E:182:TYR:N	1.88	0.72
1:B:981:ILE:HG13	1:B:982:LEU:N	2.05	0.72
1:C:262:LEU:HD12	1:C:265:VAL:HG23	1.70	0.72
1:D:646:GLU:HG3	1:D:650:ARG:HH12	1.55	0.72
1:B:185:ARG:NH1	1:B:771:TYR:HB3	2.05	0.72
1:E:586:ARG:O	1:E:590:VAL:HG23	1.90	0.72
1:E:281:PHE:CE2	1:E:324:VAL:HG11	2.25	0.71
1:D:840:MET:O	1:D:844:GLU:HG2	1.89	0.71
1:C:785:LEU:HD12	1:C:786:SER:N	2.04	0.71
1:E:303:ALA:CB	1:E:330:THR:HG21	2.20	0.71
1:E:629:ILE:H	1:E:629:ILE:HD12	1.54	0.71
1:D:388:PHE:HE2	1:D:472:ILE:HG13	1.55	0.71
1:C:306:ILE:HD13	1:C:307:ARG:H	1.54	0.71
1:A:410:ILE:HA	1:A:413:VAL:HG12	1.72	0.71
1:D:871:GLN:NE2	2:D:2001:LMT:O4'	2.20	0.71
1:A:987:LEU:HD23	1:A:998:GLN:NE2	2.04	0.71
1:D:924:VAL:HA	1:D:927:GLN:HE21	1.55	0.71
1:F:300:LEU:HD23	1:F:330:THR:HG23	1.73	0.71
1:D:293:LEU:CD1	1:D:302:THR:HG21	2.20	0.71
1:E:792:ASN:HD21	1:E:796:GLU:HB2	1.55	0.71
1:A:535:LEU:HD12	1:A:963:ILE:HD11	1.73	0.71
1:E:891:TYR:HA	1:E:949:LYS:HE2	1.73	0.71
1:E:209:ALA:HB1	1:F:743:ALA:HB3	1.71	0.71
1:F:773:GLN:HG2	1:F:779:ARG:HH12	1.55	0.71
1:E:985:VAL:HB	1:E:986:PRO:HD3	1.72	0.71
1:F:406:VAL:O	1:F:410:ILE:HG23	1.90	0.71
1:D:298:ASN:O	1:D:302:THR:HG22	1.90	0.71
1:F:15:ILE:HD13	1:F:16:ALA:H	1.53	0.71
1:D:723:GLU:HB2	1:D:724:PRO:HD2	1.72	0.71
1:A:705:LEU:HD11	1:A:849:GLN:HB2	1.73	0.71
1:E:680:PHE:HA	1:E:862:SER:OG	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:ASN:HD21	1:B:608:SER:HB2	1.55	0.71
1:D:2:SER:O	1:D:6:ILE:HG13	1.90	0.71
1:D:409:ALA:O	1:D:413:VAL:HG12	1.89	0.71
1:C:241:GLN:HG3	1:C:762:ILE:O	1.91	0.71
1:F:584:ALA:H	1:F:622:GLN:HE21	1.38	0.71
1:D:48:SER:O	1:D:125:GLN:HG2	1.90	0.71
1:F:516:PHE:O	1:F:519:MET:HG3	1.91	0.71
1:B:904:VAL:HB	1:B:905:PRO:HD3	1.71	0.71
1:A:649:LYS:HA	1:A:652:GLN:HB3	1.72	0.71
1:C:367:ILE:HD11	1:C:496:MET:HB2	1.72	0.70
1:A:224:ALA:HB1	1:B:780:MET:HE1	1.73	0.70
1:C:357:LEU:HD23	1:C:357:LEU:O	1.91	0.70
1:B:908:VAL:HB	1:B:930:LEU:HD11	1.73	0.70
1:C:17:LEU:HD23	1:C:20:MET:CE	2.21	0.70
1:A:538:ARG:HG3	1:A:1022:LEU:HD21	1.73	0.70
1:E:447:MET:HE3	2:E:2001:LMT:H121	1.70	0.70
1:D:1024:TYR:O	1:D:1028:SER:HB2	1.91	0.70
1:E:75:LEU:HD23	1:E:76:ARG:N	2.05	0.70
1:F:903:VAL:CG2	1:F:1020:VAL:HG22	2.21	0.70
1:E:410:ILE:HG13	1:E:976:THR:HG22	1.71	0.70
1:E:718:ASN:HB2	1:E:827:LEU:HD13	1.72	0.70
1:B:757:TYR:HB2	1:B:771:TYR:CE1	2.27	0.70
1:A:442:LEU:O	1:A:445:ILE:HG13	1.92	0.70
1:F:188:LEU:HA	1:F:266:ALA:HB2	1.71	0.70
1:B:47:VAL:HG13	1:B:127:ILE:HA	1.73	0.70
1:D:154:LEU:HD12	1:D:286:ALA:HA	1.73	0.70
1:D:943:LEU:HD13	1:D:969:ARG:NH2	2.05	0.70
1:F:578:THR:OG1	1:F:623:SER:HB2	1.90	0.70
1:C:246:PHE:O	1:C:262:LEU:HD23	1.91	0.70
1:A:310:ILE:HG13	1:A:311:ALA:N	2.05	0.70
1:C:790:VAL:HG12	1:C:791:ARG:H	1.57	0.70
1:C:541:TYR:HA	1:C:544:ILE:HG22	1.74	0.70
1:C:189:ASP:HB3	1:C:192:LYS:HB2	1.73	0.70
1:F:375:VAL:O	1:F:379:THR:HG22	1.91	0.70
1:F:453:PHE:HZ	1:F:932:THR:HB	1.57	0.70
1:B:435:MET:O	1:B:439:GLN:HB2	1.92	0.70
2:E:2001:LMT:H122	2:E:2002:LMT:H122	1.73	0.70
1:B:171:GLY:HA3	1:B:302:THR:CG2	2.22	0.70
1:E:64:VAL:HG21	1:E:118:LEU:HD23	1.74	0.70
1:B:214:ILE:HD12	1:C:749:VAL:HG21	1.73	0.70
1:F:413:VAL:O	1:F:417:GLU:HG2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:159:VAL:HG21	1:E:181:GLN:HG3	1.74	0.70
1:C:801:ASN:HA	1:C:804:ALA:HB2	1.72	0.70
1:C:922:ASN:OD1	1:C:926:PHE:CD2	2.45	0.69
1:B:159:VAL:HG12	1:B:163:GLN:NE2	2.06	0.69
1:B:273:GLN:HE22	1:B:769:ARG:NH1	1.90	0.69
1:D:151:LYS:HD3	1:D:278:ASN:HB3	1.73	0.69
1:A:210:GLN:NE2	1:A:249:ILE:HG23	2.07	0.69
1:F:342:LYS:O	1:F:346:GLU:HG3	1.92	0.69
1:E:561:THR:HG22	1:E:922:ASN:HD22	1.57	0.69
1:F:785:LEU:HD12	1:F:786:SER:N	2.06	0.69
1:C:307:ARG:O	1:C:310:ILE:HG13	1.92	0.69
1:F:902:LEU:O	1:F:905:PRO:HD2	1.93	0.69
1:A:373:PRO:O	1:A:377:LEU:HB2	1.92	0.69
1:D:298:ASN:HD22	1:D:301:ASP:H	1.37	0.69
1:F:396:PHE:CD2	1:F:1001:ILE:HG21	2.27	0.69
1:F:471:SER:O	1:F:475:VAL:HG22	1.92	0.69
1:F:577:GLN:HB3	1:F:662:MET:HB2	1.73	0.69
1:E:535:LEU:HD22	1:E:1025:VAL:HG21	1.74	0.69
1:D:47:VAL:H	1:D:88:MET:HE3	1.58	0.69
1:A:32:VAL:HG13	1:A:300:LEU:HD12	1.75	0.69
1:E:278:ASN:HD22	1:E:588:GLN:HE22	1.40	0.69
1:B:949:LYS:O	1:B:953:GLU:HG3	1.93	0.69
1:F:600:GLU:HG3	1:F:601:LYS:H	1.58	0.69
1:F:159:VAL:HG12	1:F:159:VAL:O	1.91	0.69
1:E:727:LYS:HE3	1:E:729:GLU:OE1	1.93	0.69
1:F:560:PRO:O	1:F:921:SER:HB2	1.93	0.69
1:D:901:MET:O	1:D:904:VAL:HG23	1.92	0.69
1:D:684:LEU:HD11	1:D:826:ILE:CD1	2.21	0.69
1:C:402:ILE:HD12	1:C:403:GLY:N	2.04	0.69
1:D:184:MET:HE1	1:D:270:LEU:HD21	1.75	0.69
1:B:981:ILE:HG13	1:B:982:LEU:H	1.58	0.69
1:A:586:ARG:HG3	1:A:586:ARG:HH11	1.58	0.69
1:F:503:GLY:O	1:F:505:HIS:N	2.26	0.69
1:D:818:TYR:O	1:D:819:ASN:HB2	1.92	0.69
1:E:678:THR:HG22	1:E:679:GLY:N	2.08	0.69
1:C:578:THR:HG21	1:C:587:THR:HA	1.75	0.69
1:F:997:SER:O	1:F:1001:ILE:HG22	1.91	0.69
1:D:80:SER:OG	1:D:817:ARG:HG2	1.92	0.69
1:D:333:VAL:O	1:D:337:ILE:HG12	1.93	0.69
1:B:706:ALA:HB1	1:B:712:LEU:CD1	2.23	0.69
1:D:139:VAL:HG23	1:D:326:PRO:HD2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:572:LEU:HB3	1:D:629:ILE:HB	1.75	0.68
1:C:314:GLU:N	1:C:315:PRO:HD2	2.08	0.68
1:A:164:ASP:O	1:A:167:SER:HB2	1.93	0.68
1:A:363:ARG:HD3	1:A:496:MET:O	1.93	0.68
1:D:904:VAL:HB	1:D:905:PRO:HD3	1.75	0.68
1:C:1:MET:HB3	2:C:2002:LMT:H6D	1.75	0.68
1:C:78:ILE:HG12	1:C:92:VAL:HG13	1.75	0.68
1:B:274:ASP:HB3	2:B:2001:LMT:O2'	1.93	0.68
1:F:64:VAL:HG12	1:F:114:ALA:HB1	1.75	0.68
1:C:740:VAL:HG21	1:C:745:ILE:HG23	1.76	0.68
1:A:38:ILE:O	1:A:96:GLN:NE2	2.27	0.68
1:D:62:VAL:O	1:D:66:GLU:HG3	1.94	0.68
1:B:586:ARG:O	1:B:589:VAL:HG12	1.92	0.68
1:A:423:GLU:CB	1:A:425:LEU:HD13	2.24	0.68
1:D:831:ALA:HB3	1:D:834:LEU:HD12	1.74	0.68
1:A:142:VAL:HG23	1:A:154:LEU:HB3	1.74	0.68
1:D:687:GLN:N	1:D:687:GLN:HE21	1.92	0.68
1:C:686:ASP:OD2	1:C:689:GLY:HA2	1.93	0.68
1:C:980:PHE:O	1:C:984:VAL:HG22	1.94	0.68
1:D:240:LEU:HB2	1:D:246:PHE:CZ	2.29	0.68
1:B:725:GLN:NE2	1:B:811:GLY:HA3	2.09	0.68
1:A:489:THR:HB	1:A:490:PRO:HD3	1.74	0.68
1:C:782:PRO:O	1:C:785:LEU:HG	1.93	0.68
1:A:185:ARG:NH1	1:A:275:TYR:HE2	1.90	0.68
1:D:228:GLN:HE21	1:D:230:LEU:N	1.91	0.68
1:B:997:SER:O	1:B:1001:ILE:HG22	1.94	0.68
1:D:820:GLY:O	1:D:821:VAL:HG23	1.93	0.68
1:A:710:PRO:O	1:A:831:ALA:HB2	1.93	0.68
1:B:109:ASN:O	1:B:112:GLN:HB3	1.94	0.68
1:F:600:GLU:HG3	1:F:601:LYS:N	2.09	0.68
1:A:702:PHE:HZ	1:A:843:VAL:HG13	1.59	0.68
1:E:878:LEU:CD1	2:E:2001:LMT:H31	2.24	0.67
1:F:498:LYS:CE	1:F:498:LYS:H	2.06	0.67
1:A:763:ASP:HB3	1:A:768:LYS:HD3	1.74	0.67
1:D:139:VAL:HG22	1:D:327:TYR:HB3	1.76	0.67
1:B:278:ASN:HB3	1:B:613:THR:HB	1.76	0.67
1:E:724:PRO:HA	1:E:810:TYR:HA	1.76	0.67
1:B:913:LEU:O	1:B:917:MET:HB2	1.94	0.67
1:C:402:ILE:CD1	1:C:403:GLY:H	2.07	0.67
1:A:745:ILE:O	1:A:749:VAL:HG23	1.95	0.67
1:E:981:ILE:O	1:E:985:VAL:HG23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:278:ASN:HD22	1:E:588:GLN:NE2	1.91	0.67
1:A:127:ILE:O	1:B:113:LEU:HG	1.94	0.67
1:C:605:SER:OG	1:C:647:LEU:HD13	1.95	0.67
1:A:904:VAL:HB	1:A:905:PRO:HD3	1.76	0.67
1:C:530:GLY:O	1:C:534:ILE:HD13	1.94	0.67
1:A:906:LEU:HD22	1:A:1015:LEU:HD23	1.75	0.67
1:D:780:MET:HE1	1:F:224:ALA:HB1	1.76	0.67
1:C:407:ASP:OD2	1:C:939:LYS:HE3	1.95	0.67
1:D:692:HIS:CG	1:D:692:HIS:O	2.47	0.67
1:F:830:PRO:HB3	1:F:839:ALA:HB2	1.75	0.67
1:D:637:ARG:HB3	1:D:642:ASN:HB3	1.76	0.67
1:B:10:ILE:HG22	1:C:888:ALA:O	1.95	0.67
1:B:215:SER:HA	1:C:51:GLY:HA3	1.75	0.67
1:F:683:PHE:CE1	1:F:825:GLU:HB2	2.30	0.67
1:A:348:ILE:HD12	1:A:372:VAL:HG11	1.76	0.67
1:C:374:VAL:HG13	1:C:375:VAL:H	1.59	0.67
1:D:655:PHE:CE1	1:D:658:PHE:HB3	2.29	0.67
1:F:573:PHE:HB2	1:F:666:PHE:O	1.95	0.67
1:F:716:ARG:HH12	1:F:827:LEU:HB2	1.57	0.67
1:F:355:MET:SD	1:F:368:PRO:HB2	2.35	0.67
1:A:928:VAL:O	1:A:932:THR:HG22	1.95	0.67
1:E:597:TYR:CD2	1:E:598:LEU:HD22	2.30	0.67
1:A:647:LEU:HD23	1:A:647:LEU:O	1.95	0.67
1:B:850:LEU:HD13	1:B:854:VAL:HG12	1.76	0.67
1:A:164:ASP:HB2	1:A:165:PRO:HD3	1.75	0.67
1:C:281:PHE:CE1	1:C:608:SER:HB2	2.29	0.67
1:E:690:VAL:HG12	1:E:694:VAL:HB	1.77	0.67
1:B:930:LEU:O	1:B:934:ILE:HG23	1.95	0.67
1:C:480:LEU:O	1:C:484:VAL:HG13	1.94	0.67
1:B:14:VAL:HG21	1:C:889:ALA:HB2	1.76	0.67
1:A:228:GLN:CG	1:B:780:MET:HE3	2.24	0.67
1:B:683:PHE:CE1	1:B:825:GLU:HB2	2.29	0.67
1:F:1014:VAL:HG23	1:F:1015:LEU:HD22	1.76	0.67
1:B:76:ARG:HD3	1:B:863:TYR:CE2	2.29	0.67
1:F:164:ASP:HB3	1:F:168:ARG:NH2	2.09	0.67
1:D:578:THR:HG22	1:D:661:ALA:HB2	1.77	0.67
1:A:400:LEU:HD23	1:A:932:THR:HG21	1.76	0.67
1:F:96:GLN:CD	1:F:461:GLY:O	2.33	0.67
1:A:219:LEU:HD13	1:A:234:ILE:HD11	1.74	0.67
1:C:52:ALA:HB1	1:C:56:THR:HB	1.76	0.67
1:F:712:LEU:HD23	1:F:715:VAL:HG21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:909:ILE:HG13	1:A:910:GLY:H	1.59	0.67
1:E:210:GLN:OE1	1:E:249:ILE:HD13	1.96	0.67
1:C:254:ASN:HB3	1:C:255:PRO:HD2	1.76	0.67
1:A:863:TYR:HA	1:A:866:ARG:HB3	1.76	0.67
1:C:30:LEU:HD11	1:C:384:ALA:HB2	1.77	0.67
1:A:940:ASN:HD22	1:A:973:ILE:HG23	1.60	0.67
1:F:732:ASP:HB3	1:F:736:SER:HB2	1.75	0.66
1:B:753:TRP:CZ2	1:B:785:LEU:HB3	2.30	0.66
1:E:164:ASP:HB3	1:E:165:PRO:HD3	1.77	0.66
1:A:340:VAL:HA	1:A:343:THR:HG23	1.76	0.66
1:D:182:TYR:O	1:D:768:LYS:HD3	1.96	0.66
1:C:943:LEU:HD23	1:C:973:ILE:HG12	1.76	0.66
1:F:906:LEU:HA	1:F:909:ILE:HD11	1.77	0.66
1:B:241:GLN:HG2	1:B:762:ILE:O	1.96	0.66
1:A:63:GLN:HE21	1:A:817:ARG:NH1	1.94	0.66
1:A:218:GLN:HB2	1:A:232:ALA:O	1.94	0.66
1:C:1:MET:H2	2:C:2002:LMT:C6'	2.08	0.66
1:D:416:VAL:HG12	1:D:420:MET:HE2	1.75	0.66
1:C:788:TRP:O	1:C:800:PHE:HB2	1.96	0.66
1:E:184:MET:HG2	1:E:246:PHE:CE2	2.30	0.66
1:D:303:ALA:HB2	1:D:330:THR:HG21	1.77	0.66
1:A:900:VAL:O	1:A:903:VAL:HG22	1.94	0.66
1:A:140:VAL:HG22	1:A:325:TYR:CE1	2.31	0.66
1:F:293:LEU:HD23	1:F:294:ALA:O	1.95	0.66
1:B:154:LEU:O	1:B:158:ILE:HG13	1.95	0.66
1:B:445:ILE:HD13	1:B:939:LYS:CG	2.23	0.66
1:F:240:LEU:HG	1:F:245:GLN:HE21	1.61	0.66
1:E:631:LEU:CD1	1:E:644:VAL:HG22	2.25	0.66
1:E:977:SER:O	1:E:981:ILE:HG12	1.95	0.66
1:D:845:GLU:OE1	1:D:845:GLU:HA	1.95	0.66
1:E:190:PRO:HB2	1:E:787:LYS:O	1.96	0.66
1:E:197:GLN:HE21	1:E:252:LYS:NZ	1.94	0.66
1:E:830:PRO:HB3	1:E:839:ALA:HB2	1.77	0.66
1:B:906:LEU:HG	1:B:1015:LEU:HB2	1.76	0.66
1:F:156:ASN:ND2	1:F:182:TYR:H	1.94	0.66
1:D:218:GLN:HB2	1:D:232:ALA:O	1.96	0.66
1:E:786:SER:HA	1:E:801:ASN:HD22	1.60	0.66
1:D:423:GLU:HG3	1:D:425:LEU:HD11	1.76	0.66
1:B:60:THR:HG22	1:B:61:VAL:HG23	1.78	0.66
1:A:598:LEU:HD13	1:A:602:GLU:HG3	1.78	0.66
1:B:555:MET:HE3	1:B:916:SER:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:559:ILE:HD13	1:E:560:PRO:N	2.10	0.66
1:E:576:VAL:HG21	1:E:591:VAL:HG12	1.76	0.66
1:D:40:PRO:HD3	1:D:864:GLU:OE2	1.94	0.66
1:A:684:LEU:HD11	1:A:826:ILE:HG13	1.76	0.66
1:E:874:ALA:O	1:E:878:LEU:HG	1.95	0.66
1:B:172:VAL:HG22	1:B:306:ILE:HD11	1.75	0.66
1:E:484:VAL:HG13	1:E:488:LEU:HB3	1.77	0.66
1:F:250:LEU:HG	1:F:261:ARG:CZ	2.25	0.66
1:C:544:ILE:HD13	1:C:1019:TRP:HZ2	1.61	0.66
1:F:360:GLN:HB3	1:F:513:PHE:CD2	2.31	0.66
1:D:188:LEU:HA	1:D:266:ALA:HB2	1.78	0.66
1:B:203:VAL:O	1:B:207:ILE:HG13	1.95	0.66
1:C:934:ILE:C	1:C:934:ILE:HD13	2.16	0.66
1:C:330:THR:N	1:C:331:PRO:HD2	2.11	0.66
1:A:713:GLN:O	1:A:714:ARG:CB	2.44	0.66
1:E:231:ASN:O	1:F:581:GLY:HA2	1.96	0.66
1:F:846:ILE:O	1:F:846:ILE:HG13	1.96	0.66
1:F:717:PRO:CA	1:F:826:ILE:HG22	2.24	0.65
1:D:406:VAL:O	1:D:410:ILE:HG13	1.97	0.65
1:A:757:TYR:HB2	1:A:771:TYR:CE1	2.31	0.65
1:A:713:GLN:O	1:A:714:ARG:HB2	1.95	0.65
1:C:103:ALA:O	1:C:107:VAL:HG23	1.95	0.65
1:C:485:ALA:HA	1:C:489:THR:OG1	1.96	0.65
1:F:192:LYS:HE2	1:F:264:ASP:O	1.96	0.65
1:D:99:ASP:HB3	1:D:102:ILE:HD12	1.78	0.65
1:D:987:LEU:HA	1:D:998:GLN:HE21	1.61	0.65
1:C:156:ASN:HD21	1:C:768:LYS:HE2	1.61	0.65
1:A:690:VAL:CG2	1:A:694:VAL:HB	2.25	0.65
1:C:377:LEU:O	1:C:380:PHE:HB2	1.96	0.65
1:B:293:LEU:HG	1:B:297:ALA:HB3	1.77	0.65
1:D:219:LEU:HB2	1:D:232:ALA:H	1.61	0.65
1:C:887:LEU:HD13	1:C:900:VAL:HG21	1.79	0.65
1:A:837:GLY:HA2	1:A:840:MET:HE3	1.78	0.65
1:D:569:GLN:N	1:D:634:TRP:CH2	2.64	0.65
1:C:408:ASP:OD2	1:C:445:ILE:HD11	1.97	0.65
1:A:61:VAL:O	1:A:64:VAL:HG12	1.96	0.65
1:E:674:LEU:HD11	1:E:861:LEU:HD21	1.77	0.65
1:D:731:ASP:OD2	1:D:734:LYS:HD3	1.96	0.65
1:F:723:GLU:O	1:F:810:TYR:HB2	1.96	0.65
1:F:47:VAL:HG22	1:F:127:ILE:HG23	1.78	0.65
1:D:220:GLY:H	1:D:231:ASN:HA	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:LEU:CD1	2:A:1101:LMT:H101	2.26	0.65
1:D:47:VAL:HG12	1:D:88:MET:HE2	1.77	0.65
1:C:283:GLY:H	1:C:595:ARG:CZ	2.10	0.65
1:A:560:PRO:O	1:A:921:SER:HB2	1.96	0.65
1:E:347:ALA:O	1:E:351:VAL:HG23	1.96	0.65
1:B:987:LEU:HD13	1:B:1001:ILE:HD12	1.78	0.65
1:F:936:LEU:HD11	1:F:980:PHE:CE2	2.32	0.65
1:B:575:GLN:HE21	1:B:617:PHE:HB2	1.61	0.65
1:F:138:MET:SD	1:F:291:ILE:HD11	2.37	0.65
1:A:734:LYS:O	1:A:738:LEU:HD13	1.95	0.65
1:E:716:ARG:NH1	1:E:827:LEU:HB3	2.12	0.65
1:E:970:LEU:O	1:E:974:VAL:HG23	1.97	0.65
1:E:680:PHE:CZ	1:E:828:GLY:HA3	2.32	0.65
1:A:13:TRP:HE1	2:A:1102:LMT:H2O2	1.42	0.65
1:D:466:ILE:HG13	1:D:563:PHE:HE1	1.62	0.65
1:D:713:GLN:HE21	1:D:714:ARG:HG3	1.61	0.65
1:A:303:ALA:CB	1:A:330:THR:HG21	2.26	0.65
1:E:11:PHE:CE1	1:E:15:ILE:HD11	2.32	0.65
1:A:72:ILE:HD11	1:A:110:LYS:HG2	1.79	0.65
1:D:78:ILE:HD12	1:D:91:THR:O	1.96	0.64
1:A:478:MET:O	1:A:482:VAL:HG23	1.96	0.64
1:B:971:ARG:HB3	1:B:972:PRO:HD3	1.79	0.64
1:F:466:ILE:HG13	1:F:467:TYR:N	2.11	0.64
1:A:749:VAL:HG13	1:A:753:TRP:CE3	2.31	0.64
1:A:498:LYS:H	1:A:499:PRO:HD2	1.61	0.64
1:D:896:ILE:N	1:D:897:PRO:HD2	2.12	0.64
1:D:847:VAL:HG21	1:D:856:TYR:CD2	2.32	0.64
1:C:655:PHE:HA	1:C:658:PHE:HB2	1.80	0.64
1:D:56:THR:HG23	1:F:213:GLN:HG2	1.79	0.64
1:E:469:GLN:O	1:E:473:THR:HG22	1.98	0.64
1:F:908:VAL:HG12	1:F:912:LEU:HG	1.79	0.64
1:F:200:PRO:HG3	1:F:748:THR:HG23	1.79	0.64
1:F:310:ILE:HD12	1:F:310:ILE:C	2.17	0.64
1:D:910:GLY:HA3	1:D:1011:THR:OG1	1.97	0.64
1:D:115:THR:HA	1:D:118:LEU:HD22	1.77	0.64
1:C:987:LEU:HD23	1:C:998:GLN:NE2	2.12	0.64
1:D:655:PHE:HZ	1:D:660:ASP:HB3	1.62	0.64
1:C:414:GLU:OE1	1:C:971:ARG:HD3	1.97	0.64
1:F:38:ILE:HD11	1:F:674:LEU:HD21	1.78	0.64
1:B:143:VAL:CG2	1:B:281:PHE:HB3	2.26	0.64
1:F:453:PHE:CE2	1:F:474:ILE:HG21	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:417:GLU:HA	1:D:420:MET:HE3	1.78	0.64
1:C:910:GLY:O	1:C:1007:GLY:HA3	1.98	0.64
1:C:199:THR:HB	1:C:200:PRO:HD2	1.79	0.64
1:C:149:MET:SD	1:C:318:PRO:HG3	2.37	0.64
1:C:240:LEU:HG	1:C:245:GLN:HB3	1.79	0.64
1:C:489:THR:HB	1:C:490:PRO:HD3	1.78	0.64
1:D:27:ILE:CG2	2:D:2002:LMT:H41	2.26	0.64
1:E:310:ILE:HG21	1:E:323:VAL:HG21	1.79	0.64
1:C:548:ILE:CG2	1:C:909:ILE:HD13	2.28	0.64
1:A:56:THR:O	1:A:60:THR:CG2	2.43	0.64
1:F:83:ASN:N	1:F:83:ASN:HD22	1.94	0.64
1:A:224:ALA:HB1	1:B:780:MET:CE	2.28	0.64
1:C:3:LYS:NZ	2:C:2002:LMT:O3B	2.31	0.64
1:B:326:PRO:HB2	1:B:630:MET:SD	2.38	0.64
1:B:111:LEU:C	1:B:111:LEU:HD23	2.18	0.64
1:C:410:ILE:C	1:C:410:ILE:HD12	2.18	0.64
1:A:17:LEU:HD21	2:A:1102:LMT:H52	1.78	0.64
1:E:578:THR:HG22	1:E:661:ALA:HB2	1.80	0.64
1:D:36:PRO:O	1:D:38:ILE:HG23	1.97	0.64
1:D:684:LEU:N	1:D:684:LEU:CD1	2.60	0.64
1:D:154:LEU:O	1:D:158:ILE:HG12	1.97	0.64
1:C:143:VAL:HG23	1:C:286:ALA:HB2	1.80	0.64
1:F:187:TRP:HZ3	1:F:773:GLN:HB3	1.63	0.64
1:B:583:SER:HA	1:B:622:GLN:HE21	1.63	0.64
1:E:157:TYR:OH	1:E:317:MET:HA	1.98	0.64
1:C:420:MET:HG2	1:C:500:ILE:HG22	1.80	0.64
1:B:351:VAL:O	1:B:355:MET:HB2	1.98	0.64
1:C:357:LEU:HD23	1:C:357:LEU:C	2.18	0.64
1:B:314:GLU:HA	1:B:317:MET:HE2	1.79	0.64
2:F:2001:LMT:O2B	2:F:2001:LMT:C4'	2.45	0.64
1:C:277:ILE:HA	1:C:613:THR:O	1.98	0.64
1:B:45:VAL:O	1:B:88:MET:HE3	1.98	0.64
1:A:498:LYS:N	1:A:499:PRO:HD2	2.13	0.64
1:C:435:MET:CE	1:C:435:MET:HA	2.28	0.64
1:D:213:GLN:HB2	1:D:239:ARG:HG3	1.80	0.64
1:A:943:LEU:HD13	1:A:969:ARG:NH2	2.12	0.64
1:B:30:LEU:HD23	1:B:390:ILE:HD11	1.80	0.64
1:B:352:PHE:CE1	1:B:365:THR:HG21	2.33	0.64
1:A:459:PHE:O	1:A:464:GLY:HA3	1.98	0.64
1:C:453:PHE:HZ	1:C:932:THR:HB	1.63	0.63
1:C:391:ASN:N	1:C:391:ASN:HD22	1.95	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:682:LEU:HD21	1:C:826:ILE:HG13	1.80	0.63
1:E:900:VAL:HG23	1:E:941:ALA:CB	2.26	0.63
1:E:631:LEU:HD12	1:E:644:VAL:HG22	1.79	0.63
1:D:776:PRO:O	1:D:780:MET:HG2	1.98	0.63
1:E:558:ARG:HB3	1:E:558:ARG:NH1	2.12	0.63
1:B:357:LEU:HD11	1:B:516:PHE:CE1	2.33	0.63
1:D:445:ILE:HD12	1:D:939:LYS:HE3	1.80	0.63
1:D:969:ARG:O	1:D:972:PRO:HG2	1.97	0.63
1:E:578:THR:HG21	1:E:590:VAL:HG21	1.81	0.63
1:E:650:ARG:NH1	1:E:650:ARG:HB3	2.12	0.63
1:F:726:TYR:O	1:F:727:LYS:HB2	1.97	0.63
1:D:637:ARG:N	1:D:638:PRO:HD3	2.13	0.63
1:B:558:ARG:HD2	1:B:558:ARG:O	1.98	0.63
1:E:574:ALA:O	1:E:626:MET:HB2	1.97	0.63
1:F:733:GLU:HG3	1:F:734:LYS:N	2.13	0.63
1:D:958:ILE:HD13	1:D:959:VAL:H	1.62	0.63
1:A:554:TRP:CH2	1:A:558:ARG:HD2	2.33	0.63
1:B:445:ILE:O	1:B:445:ILE:HG13	1.98	0.63
1:C:858:TRP:HE1	1:C:866:ARG:NH2	1.96	0.63
1:F:730:ILE:CD1	1:F:730:ILE:H	2.11	0.63
1:B:247:GLU:HB3	1:B:263:LYS:HB3	1.79	0.63
1:D:541:TYR:HA	1:D:544:ILE:CG2	2.27	0.63
1:C:414:GLU:O	1:C:417:GLU:N	2.30	0.63
1:E:411:VAL:HB	1:E:969:ARG:HH22	1.64	0.63
1:D:999:HIS:O	1:D:1003:THR:HG23	1.98	0.63
1:A:462:SER:O	1:A:466:ILE:HG12	1.99	0.63
1:C:448:VAL:O	1:C:452:VAL:HG23	1.99	0.63
1:B:111:LEU:O	1:B:111:LEU:HD23	1.98	0.63
1:F:55:GLU:CD	1:F:55:GLU:H	2.01	0.63
1:C:683:PHE:CZ	1:C:825:GLU:HB2	2.34	0.63
1:B:592:ASP:C	1:B:594:MET:H	2.01	0.63
1:D:448:VAL:HG22	1:D:886:CYS:HB3	1.80	0.63
1:A:578:THR:HB	1:A:579:PRO:HD2	1.80	0.63
1:D:225:VAL:H	1:E:780:MET:HE1	1.64	0.63
1:E:629:ILE:N	1:E:629:ILE:HD12	2.13	0.63
1:C:99:ASP:CG	1:C:102:ILE:HG23	2.19	0.63
1:C:699:ARG:HH12	1:C:721:SER:HA	1.63	0.63
1:C:548:ILE:HG23	1:C:909:ILE:HD13	1.80	0.63
1:A:959:VAL:O	1:A:963:ILE:HG12	1.98	0.63
1:E:718:ASN:HB3	1:E:825:GLU:HB3	1.79	0.63
1:D:466:ILE:HG13	1:D:563:PHE:CE1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:568:ASP:OD1	1:F:644:VAL:HG22	1.98	0.63
1:D:666:PHE:HB3	1:D:714:ARG:HH22	1.64	0.63
1:B:367:ILE:HB	1:B:368:PRO:HD3	1.81	0.63
1:F:199:THR:HB	1:F:200:PRO:HD2	1.79	0.63
1:C:816:GLU:OE1	1:C:824:MET:HA	1.99	0.63
1:D:906:LEU:O	1:D:1011:THR:HB	1.98	0.63
1:B:829:GLU:HB2	1:B:830:PRO:CD	2.27	0.63
1:E:714:ARG:HD2	1:E:829:GLU:CD	2.18	0.63
1:E:801:ASN:HA	1:E:804:ALA:HB2	1.79	0.63
1:B:243:ALA:O	1:B:247:GLU:HG3	1.98	0.63
1:A:638:PRO:O	1:A:642:ASN:HB2	1.99	0.63
1:C:142:VAL:HG21	1:C:321:MET:HE1	1.80	0.63
1:C:142:VAL:O	1:C:286:ALA:HB1	1.99	0.63
1:C:801:ASN:HA	1:C:804:ALA:CB	2.28	0.63
1:C:281:PHE:HE1	1:C:608:SER:HB2	1.64	0.63
1:B:76:ARG:NH2	1:B:96:GLN:OE1	2.31	0.63
1:C:412:VAL:O	1:C:416:VAL:HG23	1.99	0.63
1:F:631:LEU:HD11	1:F:644:VAL:HG13	1.80	0.63
1:A:760:ASP:HB3	1:A:768:LYS:O	1.98	0.63
1:C:372:VAL:O	1:C:376:LEU:HB2	1.98	0.63
1:C:95:GLU:HG3	1:C:96:GLN:O	1.98	0.63
1:E:420:MET:HE1	1:E:427:PRO:HA	1.81	0.63
1:E:698:ALA:HB2	1:E:854:VAL:HG21	1.80	0.63
1:D:923:ASP:O	1:D:927:GLN:HG3	1.98	0.63
1:C:570:GLY:HA2	1:C:631:LEU:HD12	1.80	0.63
1:B:878:LEU:CD1	2:B:2004:LMT:H32	2.28	0.63
1:C:745:ILE:HG22	1:C:790:VAL:HG21	1.81	0.63
1:C:99:ASP:OD1	1:C:102:ILE:HG23	1.99	0.63
1:E:865:GLU:HA	1:E:868:SER:HB2	1.79	0.63
1:D:336:SER:O	1:D:340:VAL:HG23	1.98	0.63
1:B:347:ALA:O	1:B:351:VAL:HG23	1.98	0.62
1:C:47:VAL:HG22	1:C:127:ILE:HG13	1.82	0.62
1:C:262:LEU:HD12	1:C:265:VAL:CG2	2.29	0.62
1:D:602:GLU:O	1:D:604:SER:N	2.32	0.62
1:A:663:VAL:HG12	1:A:663:VAL:O	1.99	0.62
1:A:896:ILE:N	1:A:897:PRO:HD2	2.14	0.62
1:D:310:ILE:C	1:D:312:ASN:H	2.03	0.62
1:D:454:LEU:HD12	2:D:2001:LMT:C10	2.26	0.62
1:A:56:THR:HG23	1:C:213:GLN:HG2	1.79	0.62
1:A:344:LEU:HD22	1:A:402:ILE:HD11	1.80	0.62
1:E:749:VAL:O	1:E:753:TRP:HB2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:987:LEU:HA	1:F:998:GLN:HE21	1.64	0.62
1:F:903:VAL:HG21	1:F:1020:VAL:HG22	1.81	0.62
1:C:790:VAL:HG12	1:C:791:ARG:N	2.13	0.62
1:B:970:LEU:O	1:B:974:VAL:HG23	1.99	0.62
1:F:680:PHE:CZ	1:F:828:GLY:HA3	2.34	0.62
1:A:58:GLN:HA	1:A:62:VAL:HB	1.81	0.62
1:B:716:ARG:H	1:B:716:ARG:HD3	1.64	0.62
1:C:454:LEU:HB2	1:C:455:PRO:CD	2.29	0.62
1:A:367:ILE:HB	1:A:368:PRO:HD3	1.80	0.62
1:C:374:VAL:HG13	1:C:375:VAL:N	2.14	0.62
1:D:598:LEU:O	1:D:602:GLU:HB2	1.99	0.62
1:B:753:TRP:HZ2	1:B:785:LEU:HB3	1.63	0.62
1:C:102:ILE:O	1:C:106:GLN:HG3	2.00	0.62
1:D:283:GLY:HA2	1:D:595:ARG:NH1	2.14	0.62
1:A:1009:MET:O	1:A:1013:THR:HG23	1.99	0.62
1:B:192:LYS:O	1:B:265:VAL:HG12	1.99	0.62
1:A:47:VAL:HG22	1:A:48:SER:N	2.15	0.62
1:C:884:PHE:CD1	1:C:897:PRO:HB2	2.34	0.62
1:D:293:LEU:HD11	1:D:302:THR:HG21	1.80	0.62
1:F:187:TRP:HA	1:F:773:GLN:O	1.99	0.62
1:D:233:THR:O	1:E:725:GLN:HB2	1.99	0.62
1:A:947:PHE:HD2	1:A:969:ARG:HD3	1.65	0.62
1:B:156:ASN:HD21	1:B:768:LYS:NZ	1.98	0.62
1:A:240:LEU:HB2	1:A:246:PHE:CE1	2.35	0.62
1:E:575:GLN:HE21	1:E:666:PHE:HZ	1.46	0.62
1:D:303:ALA:CB	1:D:330:THR:HG21	2.29	0.62
1:A:584:ALA:N	1:A:622:GLN:HE21	1.98	0.62
1:E:127:ILE:H	1:E:127:ILE:HD12	1.64	0.62
1:B:46:GLN:O	1:B:127:ILE:HA	1.99	0.62
1:B:745:ILE:HD13	1:B:790:VAL:HG21	1.82	0.62
1:A:498:LYS:H	1:A:499:PRO:CD	2.13	0.62
1:C:341:VAL:O	1:C:344:LEU:HB3	1.98	0.62
1:F:699:ARG:HD2	1:F:824:MET:CE	2.30	0.62
1:D:344:LEU:HB2	1:D:399:VAL:HG22	1.82	0.62
1:E:191:ALA:O	1:E:193:LEU:N	2.32	0.62
1:F:498:LYS:N	1:F:498:LYS:HE3	2.11	0.62
1:C:390:ILE:HA	1:C:394:THR:HG21	1.81	0.62
1:F:150:THR:CG2	1:F:152:GLU:HG2	2.28	0.62
1:D:244:GLU:HA	1:D:247:GLU:HG2	1.82	0.62
1:F:504:ASP:O	1:F:505:HIS:C	2.38	0.62
1:A:62:VAL:O	1:A:66:GLU:HG3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:471:SER:O	1:C:475:VAL:HG13	2.00	0.62
1:C:908:VAL:HG13	1:C:930:LEU:CD2	2.29	0.62
1:A:983:GLY:O	1:A:986:PRO:HD2	2.00	0.62
1:D:442:LEU:HD12	1:D:442:LEU:H	1.65	0.62
1:D:429:GLU:OE1	1:D:432:ARG:HD3	2.00	0.62
1:D:17:LEU:HD21	2:D:2003:LMT:H41	1.81	0.62
1:D:1031:PHE:CD2	1:D:1031:PHE:N	2.68	0.62
1:B:134:LYS:HZ2	1:B:134:LYS:N	1.94	0.62
1:B:650:ARG:NH1	1:B:650:ARG:HG2	2.14	0.62
1:E:138:MET:HE3	1:E:306:ILE:HD12	1.82	0.62
1:B:676:ASN:O	1:B:861:LEU:HD12	1.99	0.62
2:E:2001:LMT:C12	2:E:2002:LMT:H111	2.29	0.62
1:E:618:ALA:HB1	1:E:718:ASN:O	2.00	0.62
1:C:468:ARG:O	1:C:472:ILE:HG22	1.99	0.62
1:C:964:GLU:HA	1:C:964:GLU:OE1	2.00	0.62
1:E:493:CYS:O	1:E:497:LEU:HB2	2.00	0.62
1:C:908:VAL:HG13	1:C:930:LEU:HD22	1.81	0.61
1:E:682:LEU:HD12	1:E:856:TYR:HB2	1.82	0.61
1:C:118:LEU:O	1:C:123:GLN:NE2	2.33	0.61
1:F:520:PHE:O	1:F:523:THR:HG22	2.00	0.61
1:C:439:GLN:HG2	2:C:2002:LMT:H6'1	1.82	0.61
1:B:49:TYR:HE2	1:B:60:THR:HG21	1.64	0.61
1:D:541:TYR:CA	1:D:544:ILE:HG22	2.30	0.61
1:A:569:GLN:H	1:A:634:TRP:HH2	1.48	0.61
1:C:283:GLY:H	1:C:595:ARG:NH2	1.98	0.61
1:F:530:GLY:O	1:F:534:ILE:HG13	1.99	0.61
1:C:616:ASN:C	1:C:616:ASN:HD22	2.02	0.61
1:A:99:ASP:OD2	1:A:102:ILE:HG12	2.00	0.61
1:B:469:GLN:O	1:B:473:THR:HG22	2.00	0.61
1:A:468:ARG:HG3	1:A:468:ARG:HH11	1.64	0.61
1:D:218:GLN:HA	1:D:234:ILE:HG13	1.82	0.61
1:C:376:LEU:HA	1:C:379:THR:HG22	1.81	0.61
1:B:713:GLN:NE2	1:B:832:PRO:HD3	2.15	0.61
1:F:58:GLN:O	1:F:63:GLN:HG3	2.00	0.61
1:F:782:PRO:O	1:F:785:LEU:HG	2.00	0.61
1:C:121:GLU:HA	1:C:124:ARG:NH1	2.15	0.61
1:C:598:LEU:CD2	1:C:606:VAL:HG21	2.30	0.61
1:F:943:LEU:HB3	1:F:973:ILE:HD11	1.81	0.61
1:A:210:GLN:NE2	1:A:250:LEU:H	1.95	0.61
1:B:243:ALA:O	1:B:268:VAL:HG11	2.00	0.61
1:C:875:LEU:HD21	1:C:931:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:592:ASP:O	1:C:595:ARG:HG3	2.00	0.61
1:E:349:LEU:O	1:E:352:PHE:HB3	2.01	0.61
1:F:251:LEU:HB2	1:F:260:VAL:HB	1.82	0.61
1:D:943:LEU:CD1	1:D:969:ARG:HH21	2.11	0.61
1:E:46:GLN:HG2	1:E:89:THR:OG1	2.01	0.61
1:C:747:SER:OG	1:C:751:ILE:HD11	2.01	0.61
1:A:63:GLN:OE1	1:C:767:VAL:HG23	2.00	0.61
1:D:908:VAL:HG22	1:D:930:LEU:HD11	1.82	0.61
1:A:10:ILE:HG23	1:B:894:TRP:CZ2	2.35	0.61
1:F:273:GLN:NE2	1:F:769:ARG:HH21	1.98	0.61
1:D:437:GLN:O	1:D:438:ILE:HG12	1.99	0.61
1:D:10:ILE:HG23	1:E:894:TRP:CZ2	2.35	0.61
1:C:181:GLN:OE1	1:C:766:ARG:HD3	2.01	0.61
1:F:749:VAL:HA	1:F:753:TRP:CE3	2.35	0.61
1:C:598:LEU:HD23	1:C:606:VAL:HG21	1.83	0.61
1:A:388:PHE:CE2	1:A:472:ILE:HG13	2.35	0.61
1:D:341:VAL:O	1:D:344:LEU:HB3	2.01	0.61
1:E:127:ILE:N	1:E:127:ILE:HD12	2.15	0.61
1:E:895:SER:C	1:E:897:PRO:HD2	2.20	0.61
1:B:115:THR:HA	1:B:118:LEU:HD12	1.82	0.61
1:A:39:ALA:HB3	1:A:673:GLU:HG2	1.81	0.61
1:E:905:PRO:CA	1:E:908:VAL:HG12	2.24	0.61
1:E:878:LEU:HD13	2:E:2001:LMT:H31	1.83	0.61
1:E:314:GLU:OE2	1:E:323:VAL:HG22	2.01	0.61
1:D:699:ARG:O	1:D:702:PHE:N	2.34	0.61
1:D:891:TYR:OH	1:D:942:ILE:HG23	2.00	0.61
1:A:616:ASN:HB2	1:A:624:SER:HB3	1.81	0.61
1:D:185:ARG:HH11	1:D:771:TYR:CB	2.13	0.61
1:E:217:GLY:O	1:E:234:ILE:HG12	2.01	0.61
1:F:503:GLY:C	1:F:505:HIS:H	2.04	0.61
1:D:27:ILE:HG23	2:D:2002:LMT:H41	1.81	0.61
1:D:309:THR:O	1:D:312:ASN:HB3	2.01	0.61
1:E:212:VAL:HG22	1:E:213:GLN:H	1.65	0.61
1:B:868:SER:HA	1:B:871:GLN:HE21	1.64	0.61
1:C:310:ILE:HD12	1:C:311:ALA:N	2.16	0.61
1:D:6:ILE:HG22	1:D:6:ILE:O	2.00	0.61
1:D:605:SER:HA	1:D:637:ARG:HD2	1.83	0.61
1:B:729:GLU:HB2	1:B:805:THR:CG2	2.31	0.61
1:D:382:VAL:HG21	1:D:476:SER:OG	2.01	0.60
1:C:406:VAL:O	1:C:407:ASP:C	2.35	0.60
1:E:690:VAL:HG13	1:E:694:VAL:HB	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:637:ARG:HG3	1:A:637:ARG:O	2.00	0.60
1:E:493:CYS:HA	1:E:497:LEU:HD22	1.82	0.60
1:B:499:PRO:O	1:B:500:ILE:HD13	2.01	0.60
1:D:543:LEU:O	1:D:547:VAL:HG23	2.01	0.60
1:B:181:GLN:NE2	1:B:768:LYS:HG2	2.16	0.60
1:D:388:PHE:CE2	1:D:472:ILE:HG13	2.36	0.60
1:C:391:ASN:ND2	1:C:394:THR:HB	2.17	0.60
1:F:905:PRO:O	1:F:909:ILE:HG12	2.01	0.60
1:E:47:VAL:HG11	1:E:122:VAL:CG1	2.31	0.60
1:C:278:ASN:HB2	1:C:613:THR:OG1	2.02	0.60
1:C:280:GLN:HB2	1:C:611:THR:CG2	2.30	0.60
1:A:5:PHE:HB3	1:A:12:ALA:HB2	1.83	0.60
1:D:895:SER:C	1:D:897:PRO:HD2	2.22	0.60
1:F:722:ASP:HA	1:F:813:PRO:HD3	1.82	0.60
1:B:352:PHE:HE1	1:B:365:THR:HG21	1.65	0.60
1:E:1016:ALA:O	1:E:1020:VAL:HG23	2.00	0.60
1:B:699:ARG:O	1:B:703:LEU:HG	2.01	0.60
1:A:966:CYS:SG	1:A:1021:PRO:HB3	2.41	0.60
1:C:391:ASN:H	1:C:394:THR:CG2	2.13	0.60
1:E:330:THR:OG1	1:E:331:PRO:HD3	2.01	0.60
1:A:15:ILE:O	1:A:19:ILE:HG13	2.00	0.60
1:C:42:ALA:HB3	1:C:132:ALA:HB3	1.83	0.60
1:E:223:PRO:HD3	1:F:275:TYR:CD2	2.37	0.60
1:C:150:THR:HG22	1:C:153:ASP:OD1	2.01	0.60
1:C:47:VAL:CG2	1:C:127:ILE:HG23	2.31	0.60
1:F:596:GLU:O	1:F:600:GLU:HG2	2.00	0.60
1:B:438:ILE:HG13	1:B:439:GLN:H	1.65	0.60
1:E:368:PRO:HB3	1:E:409:ALA:HB1	1.84	0.60
1:C:705:LEU:HD11	1:C:849:GLN:NE2	2.17	0.60
1:E:683:PHE:HA	1:E:824:MET:O	2.01	0.60
1:F:157:TYR:CE2	1:F:317:MET:HG2	2.37	0.60
1:A:887:LEU:HD13	1:A:900:VAL:CG1	2.32	0.60
1:E:156:ASN:ND2	1:E:182:TYR:H	1.97	0.60
1:D:545:TYR:HA	1:D:548:ILE:HD12	1.83	0.60
1:B:14:VAL:HG13	1:C:885:LEU:HB3	1.83	0.60
1:D:709:ASN:HD22	1:D:846:ILE:HD11	1.66	0.60
1:B:308:GLN:HA	1:B:308:GLN:HE21	1.66	0.60
1:D:472:ILE:O	1:D:476:SER:HB2	2.01	0.60
1:B:222:LEU:HD21	1:C:622:GLN:NE2	2.15	0.60
1:A:449:LEU:C	1:A:449:LEU:HD13	2.21	0.60
1:A:649:LYS:HA	1:A:652:GLN:CB	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:743:ALA:HB1	1:C:746:ASN:OD1	2.01	0.60
1:C:448:VAL:HG12	1:C:883:VAL:HG13	1.81	0.60
1:F:733:GLU:HG3	1:F:734:LYS:HG2	1.82	0.60
1:A:830:PRO:HB3	1:A:839:ALA:HB2	1.82	0.60
1:F:156:ASN:O	1:F:160:SER:HB2	2.01	0.60
1:E:310:ILE:O	1:E:314:GLU:HG3	2.02	0.60
1:F:102:ILE:O	1:F:106:GLN:HG3	2.00	0.60
1:F:62:VAL:O	1:F:66:GLU:HB2	2.02	0.60
1:F:58:GLN:NE2	1:F:815:LEU:HD12	2.15	0.60
1:F:99:ASP:O	1:F:102:ILE:HG12	2.02	0.60
1:D:49:TYR:CE2	1:D:121:GLU:HG3	2.36	0.60
1:B:129:VAL:H	1:C:112:GLN:NE2	1.99	0.60
1:E:276:SER:C	1:E:277:ILE:HD12	2.21	0.60
1:D:324:VAL:HG22	1:D:325:TYR:N	2.17	0.60
2:E:2001:LMT:C12	2:E:2002:LMT:C11	2.80	0.60
1:A:244:GLU:CD	1:A:244:GLU:H	2.05	0.60
1:E:640:GLY:O	1:E:646:GLU:HG3	2.02	0.60
1:B:47:VAL:HG11	1:B:127:ILE:HG13	1.83	0.60
1:D:78:ILE:CD1	1:D:92:VAL:HG22	2.30	0.60
1:E:185:ARG:CZ	1:E:771:TYR:HB3	2.32	0.60
1:A:289:ILE:H	1:A:289:ILE:HD12	1.65	0.60
1:C:833:GLY:O	1:C:834:LEU:HD23	2.01	0.60
1:E:637:ARG:N	1:E:638:PRO:HD3	2.16	0.60
1:B:386:PHE:CZ	2:B:2003:LMT:H81	2.37	0.60
1:D:871:GLN:NE2	2:D:2001:LMT:O3B	2.35	0.60
1:C:665:ALA:O	1:C:714:ARG:NH1	2.35	0.60
1:A:605:SER:O	1:A:632:LYS:HG2	2.02	0.60
1:F:367:ILE:HB	1:F:368:PRO:CD	2.31	0.59
1:C:464:GLY:O	1:C:468:ARG:HB2	2.01	0.59
1:C:219:LEU:CG	1:C:234:ILE:HD11	2.30	0.59
1:C:445:ILE:HG13	1:C:446:ALA:N	2.17	0.59
1:E:78:ILE:HG12	1:E:79:SER:N	2.16	0.59
1:D:393:LEU:HD11	1:D:466:ILE:HG23	1.83	0.59
1:A:602:GLU:O	1:A:604:SER:N	2.34	0.59
1:D:54:ALA:CB	1:D:815:LEU:HD23	2.31	0.59
1:F:500:ILE:O	1:F:501:GLU:O	2.20	0.59
1:D:99:ASP:OD1	1:D:101:ASP:HB2	2.02	0.59
1:C:395:MET:O	1:C:398:MET:HB2	2.01	0.59
1:E:366:LEU:O	1:E:370:ILE:HG13	2.01	0.59
1:C:690:VAL:HG22	1:C:694:VAL:HG21	1.85	0.59
1:E:143:VAL:HG22	1:E:144:SER:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:984:VAL:HG21	1:B:1005:VAL:HG21	1.83	0.59
1:A:451:ALA:HB1	1:A:882:VAL:CG1	2.33	0.59
1:D:243:ALA:O	1:D:268:VAL:HG11	2.02	0.59
1:C:396:PHE:O	1:C:399:VAL:N	2.33	0.59
1:F:685:GLN:HA	1:F:823:ALA:HB2	1.83	0.59
1:E:643:SER:HB3	1:E:646:GLU:CG	2.31	0.59
1:D:524:THR:O	1:D:528:GLU:HG3	2.02	0.59
1:A:27:ILE:HG23	2:A:1101:LMT:H31	1.85	0.59
1:E:60:THR:HG22	1:E:119:PRO:HD3	1.84	0.59
1:D:228:GLN:NE2	1:D:230:LEU:HB3	2.17	0.59
1:E:711:ALA:HA	1:E:834:LEU:CD2	2.33	0.59
1:A:560:PRO:HB3	1:A:833:GLY:O	2.03	0.59
1:E:313:LEU:O	1:E:317:MET:HG3	2.02	0.59
1:E:310:ILE:CG2	1:E:323:VAL:HG21	2.32	0.59
1:F:372:VAL:HB	1:F:373:PRO:CD	2.32	0.59
1:B:463:THR:HG22	1:B:563:PHE:HE1	1.67	0.59
1:B:359:LEU:CD2	1:B:417:GLU:HG2	2.21	0.59
1:C:544:ILE:HD13	1:C:1019:TRP:CZ2	2.38	0.59
1:D:545:TYR:HB2	1:D:1019:TRP:NE1	2.17	0.59
1:D:247:GLU:O	1:D:262:LEU:HB3	2.02	0.59
1:D:326:PRO:HB3	1:D:610:PHE:HB2	1.83	0.59
1:D:845:GLU:OE1	1:D:848:LYS:HG3	2.02	0.59
1:F:912:LEU:HD23	1:F:926:PHE:HZ	1.68	0.59
1:B:1020:VAL:N	1:B:1021:PRO:HD2	2.17	0.59
1:E:176:GLN:O	1:E:289:ILE:HA	2.02	0.59
1:B:682:LEU:HD23	1:B:826:ILE:O	2.03	0.59
1:E:848:LYS:NZ	1:E:848:LYS:HB3	2.17	0.59
1:D:684:LEU:H	1:D:684:LEU:CD1	2.15	0.59
1:D:332:VAL:HG21	1:D:569:GLN:HG2	1.84	0.59
1:B:188:LEU:HA	1:B:266:ALA:HB2	1.85	0.59
1:E:727:LYS:O	1:E:727:LYS:HG2	2.03	0.59
1:F:38:ILE:HG12	1:F:38:ILE:O	2.03	0.59
1:E:732:ASP:CG	1:E:733:GLU:H	2.05	0.59
1:E:641:GLU:HG2	1:E:642:ASN:ND2	2.17	0.59
1:F:46:GLN:O	1:F:128:ARG:HG2	2.03	0.59
1:D:45:VAL:HA	1:D:128:ARG:O	2.02	0.59
1:A:534:ILE:HG23	1:A:541:TYR:CD2	2.37	0.59
1:B:250:LEU:HD23	1:B:261:ARG:HA	1.84	0.59
1:E:414:GLU:HG2	1:E:972:PRO:HG3	1.84	0.59
1:D:568:ASP:HB3	1:D:634:TRP:CH2	2.38	0.59
1:D:770:VAL:HG13	1:D:770:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:23:GLY:O	1:F:27:ILE:HG13	2.02	0.59
1:F:650:ARG:O	1:F:653:MET:N	2.36	0.59
1:D:685:GLN:HG3	1:D:687:GLN:HE22	1.67	0.59
1:A:969:ARG:O	1:A:973:ILE:HG12	2.03	0.59
1:C:420:MET:HG3	1:C:425:LEU:O	2.03	0.59
1:F:99:ASP:HB3	1:F:102:ILE:HG12	1.83	0.59
1:A:515:TRP:CZ2	1:A:519:MET:HG3	2.38	0.59
1:E:717:PRO:HA	1:E:826:ILE:HA	1.84	0.59
1:B:637:ARG:N	1:B:638:PRO:HD3	2.16	0.59
1:A:1:MET:O	1:A:4:PHE:HB3	2.03	0.59
1:B:687:GLN:OE1	1:B:821:VAL:HG21	2.02	0.59
1:A:121:GLU:CD	1:A:121:GLU:H	2.06	0.59
1:A:253:VAL:HA	1:A:259:GLN:HA	1.84	0.59
1:A:298:ASN:O	1:A:302:THR:CG2	2.49	0.59
1:E:45:VAL:O	1:E:89:THR:HA	2.03	0.59
1:C:884:PHE:CE1	1:C:897:PRO:HB2	2.38	0.59
1:D:155:SER:HB3	1:D:180:SER:O	2.03	0.59
1:A:702:PHE:CZ	1:A:843:VAL:HG13	2.37	0.59
1:F:504:ASP:OD2	1:F:504:ASP:O	2.20	0.59
1:C:326:PRO:CB	1:C:610:PHE:HB2	2.33	0.59
1:B:575:GLN:NE2	1:B:617:PHE:HB2	2.18	0.59
1:B:229:GLN:HB3	1:C:586:ARG:NH2	2.17	0.59
1:E:938:ALA:O	1:E:942:ILE:HG13	2.03	0.59
1:C:347:ALA:HB1	1:C:402:ILE:HG12	1.85	0.59
1:A:492:LEU:HD22	1:A:496:MET:CE	2.33	0.59
1:B:273:GLN:NE2	1:B:769:ARG:HH11	1.98	0.59
1:B:262:LEU:O	1:B:265:VAL:HG22	2.03	0.59
1:F:410:ILE:C	1:F:410:ILE:HD12	2.23	0.59
1:F:417:GLU:HA	1:F:417:GLU:OE2	2.02	0.59
1:A:837:GLY:HA2	1:A:840:MET:CE	2.32	0.59
1:F:731:ASP:OD2	1:F:733:GLU:HG2	2.03	0.59
1:B:209:ALA:HB2	1:C:742:LEU:HD23	1.84	0.59
1:D:356:TYR:HB2	1:D:365:THR:HG21	1.85	0.59
1:F:711:ALA:O	1:F:831:ALA:HB2	2.02	0.59
1:D:404:LEU:HB3	1:D:478:MET:CE	2.33	0.59
1:E:755:SER:HA	1:E:773:GLN:HB3	1.85	0.59
1:E:222:LEU:HD12	1:F:276:SER:HA	1.85	0.59
1:E:689:GLY:O	1:E:691:GLY:N	2.36	0.59
1:F:950:GLU:O	1:F:954:GLN:HG2	2.02	0.59
1:C:367:ILE:CB	1:C:368:PRO:HD3	2.21	0.58
1:E:713:GLN:HE21	1:E:714:ARG:NE	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:ILE:HD11	1:E:118:LEU:HD21	1.85	0.58
1:E:139:VAL:HG22	1:E:327:TYR:HB3	1.84	0.58
1:C:1:MET:N	2:C:2002:LMT:H6D	2.17	0.58
1:D:534:ILE:HG22	1:D:1022:LEU:HD23	1.83	0.58
1:F:573:PHE:O	1:F:665:ALA:HA	2.03	0.58
1:E:413:VAL:HG22	1:E:493:CYS:SG	2.42	0.58
1:C:479:ALA:O	1:C:483:ILE:HG12	2.03	0.58
1:D:157:TYR:O	1:D:161:ASN:ND2	2.32	0.58
1:C:453:PHE:CE2	1:C:474:ILE:HG21	2.38	0.58
1:B:187:TRP:HB3	1:B:775:ARG:HA	1.85	0.58
1:F:187:TRP:CZ3	1:F:773:GLN:HB3	2.38	0.58
1:E:414:GLU:HG3	1:E:415:ASN:N	2.18	0.58
1:A:360:GLN:HG2	1:A:513:PHE:CD1	2.38	0.58
1:E:55:GLU:HG2	1:E:815:LEU:HD11	1.85	0.58
1:C:910:GLY:O	1:C:1007:GLY:CA	2.51	0.58
1:C:402:ILE:CD1	1:C:403:GLY:N	2.65	0.58
1:F:314:GLU:CA	1:F:317:MET:HE3	2.32	0.58
1:E:65:ILE:CD1	1:E:118:LEU:HD21	2.32	0.58
1:F:587:THR:OG1	1:F:623:SER:HA	2.03	0.58
1:E:900:VAL:O	1:E:903:VAL:HG22	2.03	0.58
1:C:318:PRO:HD2	1:C:321:MET:SD	2.42	0.58
1:E:360:GLN:HG2	1:E:513:PHE:CE2	2.38	0.58
1:A:188:LEU:HD13	1:A:772:LEU:HD11	1.85	0.58
1:E:191:ALA:C	1:E:193:LEU:H	2.06	0.58
1:E:683:PHE:HB3	1:E:823:ALA:HB1	1.85	0.58
1:A:361:ASN:HB3	1:A:364:ALA:HB3	1.84	0.58
1:E:792:ASN:ND2	1:E:796:GLU:HB2	2.18	0.58
1:B:951:LEU:HD11	1:B:968:MET:CE	2.32	0.58
1:B:507:GLU:HG2	1:B:521:LEU:HD22	1.84	0.58
1:B:58:GLN:NE2	1:B:817:ARG:HH11	2.01	0.58
1:E:552:MET:SD	1:E:908:VAL:HG11	2.44	0.58
1:B:298:ASN:HD21	1:B:300:LEU:HB2	1.69	0.58
1:B:298:ASN:ND2	1:B:301:ASP:H	1.91	0.58
1:B:178:PHE:HB3	2:B:2001:LMT:C5	2.34	0.58
1:A:372:VAL:HA	1:A:405:LEU:HD21	1.85	0.58
1:D:669:PRO:HD3	1:D:677:ALA:N	2.19	0.58
1:F:27:ILE:CG2	1:F:27:ILE:O	2.51	0.58
1:F:201:GLY:O	1:F:204:SER:N	2.28	0.58
1:A:598:LEU:HD12	1:A:606:VAL:HG21	1.86	0.58
1:C:747:SER:O	1:C:751:ILE:HG13	2.04	0.58
1:B:111:LEU:C	1:B:111:LEU:CD2	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:98:THR:O	1:B:100:PRO:HD3	2.04	0.58
1:E:24:GLY:O	1:E:27:ILE:HG12	2.04	0.58
1:A:726:TYR:HD1	1:A:808:TRP:CE2	2.21	0.58
1:D:43:ILE:HA	1:D:130:THR:O	2.03	0.58
1:F:58:GLN:HE22	1:F:815:LEU:CD1	2.14	0.58
1:B:143:VAL:HG11	1:B:281:PHE:CD2	2.39	0.58
1:F:207:ILE:HG22	1:F:759:ASN:ND2	2.18	0.58
1:B:367:ILE:HD12	1:B:367:ILE:H	1.69	0.58
1:C:638:PRO:HD2	1:C:642:ASN:ND2	2.18	0.58
1:B:357:LEU:HD11	1:B:516:PHE:CD1	2.39	0.58
1:E:420:MET:CE	1:E:427:PRO:HA	2.34	0.58
1:D:31:PRO:O	1:D:389:SER:HB2	2.01	0.58
2:B:2001:LMT:O2'	2:B:2001:LMT:H11	2.02	0.58
1:B:364:ALA:CA	1:B:497:LEU:HD11	2.32	0.58
1:B:847:VAL:HG11	1:B:856:TYR:CD2	2.38	0.58
1:A:895:SER:C	1:A:897:PRO:HD2	2.24	0.58
1:C:5:PHE:CD2	1:C:487:ILE:HG23	2.39	0.58
1:B:838:ASP:O	1:B:841:ALA:HB3	2.04	0.58
1:C:422:GLU:HG2	1:C:505:HIS:NE2	2.18	0.58
1:F:745:ILE:HG22	1:F:790:VAL:HG11	1.86	0.58
1:D:789:TYR:CZ	1:D:799:PRO:HB3	2.39	0.58
1:C:367:ILE:HB	1:C:368:PRO:CD	2.26	0.58
1:C:524:THR:HG22	1:C:970:LEU:HD12	1.85	0.58
1:B:139:VAL:HG13	1:B:327:TYR:HB3	1.85	0.58
1:C:1:MET:CB	2:C:2002:LMT:H6D	2.33	0.58
1:C:684:LEU:O	1:C:823:ALA:HB1	2.03	0.58
1:D:119:PRO:HB2	1:D:122:VAL:HG23	1.86	0.58
1:D:197:GLN:HA	1:D:797:MET:SD	2.44	0.58
1:E:910:GLY:HA3	1:E:1011:THR:HG21	1.86	0.58
1:C:1009:MET:HE2	1:C:1012:ALA:HB3	1.86	0.58
1:F:151:LYS:HB2	1:F:152:GLU:OE2	2.03	0.58
1:D:757:TYR:HE1	1:D:769:ARG:HB3	1.69	0.58
1:E:556:PHE:CE1	1:E:912:LEU:HD21	2.39	0.58
1:D:336:SER:HA	1:D:993:ALA:O	2.04	0.58
1:C:890:LEU:HD22	1:C:890:LEU:O	2.04	0.58
1:B:539:ALA:HB3	1:B:540:PRO:CD	2.34	0.58
1:F:65:ILE:O	1:F:69:MET:HG2	2.03	0.58
1:E:879:SER:O	1:E:883:VAL:HG13	2.04	0.58
2:E:2001:LMT:C12	2:E:2002:LMT:H122	2.34	0.58
1:F:685:GLN:HE21	1:F:857:SER:CB	2.14	0.58
1:E:594:MET:O	1:E:598:LEU:HD23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:ILE:HD11	1:B:262:LEU:HD12	1.84	0.58
1:B:781:ASN:H	1:B:784:ASP:CG	2.07	0.58
1:D:49:TYR:CZ	1:D:121:GLU:HG3	2.39	0.58
1:B:152:GLU:OE1	1:B:272:GLY:HA3	2.03	0.58
1:A:240:LEU:HD22	1:A:245:GLN:HB3	1.85	0.57
1:F:928:VAL:O	1:F:932:THR:CG2	2.50	0.57
1:F:920:LEU:CD2	1:F:1000:ALA:HA	2.33	0.57
1:F:433:LYS:HG2	1:F:437:GLN:NE2	2.19	0.57
1:C:785:LEU:HD13	1:C:800:PHE:CE2	2.39	0.57
1:C:943:LEU:HB3	1:C:973:ILE:HD11	1.85	0.57
1:F:306:ILE:HD13	1:F:306:ILE:O	2.04	0.57
1:E:314:GLU:N	1:E:315:PRO:HD2	2.19	0.57
1:A:800:PHE:HA	1:A:803:PHE:CZ	2.38	0.57
1:B:898:PHE:O	1:B:902:LEU:HG	2.03	0.57
1:C:343:THR:O	1:C:346:GLU:N	2.32	0.57
1:F:83:ASN:ND2	1:F:814:LYS:HG3	2.20	0.57
1:A:112:GLN:HG3	1:B:112:GLN:CD	2.24	0.57
1:C:52:ALA:HB1	1:C:56:THR:CB	2.34	0.57
1:C:595:ARG:O	1:C:599:LEU:HB2	2.04	0.57
1:F:388:PHE:CD1	1:F:472:ILE:HG21	2.39	0.57
1:C:896:ILE:HG13	1:C:945:VAL:CG1	2.34	0.57
1:C:372:VAL:HG13	1:C:376:LEU:HD22	1.85	0.57
1:B:951:LEU:HD11	1:B:968:MET:HE3	1.84	0.57
1:D:1002:GLY:O	1:D:1006:ILE:HG13	2.03	0.57
1:D:488:LEU:HD22	1:D:492:LEU:CD1	2.34	0.57
1:A:931:LEU:C	1:A:933:THR:H	2.08	0.57
1:F:548:ILE:HG21	1:F:909:ILE:HD13	1.87	0.57
1:F:549:VAL:O	1:F:552:MET:HB3	2.05	0.57
1:C:501:GLU:O	1:C:504:ASP:HB2	2.04	0.57
1:A:742:LEU:N	1:A:742:LEU:HD12	2.19	0.57
1:C:184:MET:HB3	1:C:770:VAL:HG22	1.85	0.57
1:F:872:ALA:HB1	1:F:876:TYR:CE2	2.39	0.57
1:C:563:PHE:CE2	1:C:564:LEU:HD23	2.40	0.57
1:C:563:PHE:CG	1:C:564:LEU:HD23	2.39	0.57
1:A:584:ALA:HB2	1:A:622:GLN:CB	2.35	0.57
1:D:53:SER:O	1:D:57:VAL:HG12	2.05	0.57
1:B:584:ALA:H	1:B:622:GLN:NE2	2.02	0.57
1:A:133:VAL:HG11	1:A:135:ASN:OD1	2.04	0.57
1:D:950:GLU:O	1:D:953:GLU:HB3	2.04	0.57
1:D:228:GLN:HG2	1:E:780:MET:HE3	1.86	0.57
1:A:766:ARG:O	1:A:768:LYS:HD2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:281:PHE:CD2	1:C:324:VAL:HG21	2.39	0.57
1:C:136:PHE:CD1	1:C:290:ALA:HB1	2.39	0.57
1:C:22:ALA:HA	2:C:2001:LMT:H12	1.86	0.57
1:F:849:GLN:O	1:F:850:LEU:HD12	2.04	0.57
1:C:966:CYS:SG	1:C:1021:PRO:CG	2.92	0.57
1:B:576:VAL:HG21	1:B:591:VAL:HG12	1.87	0.57
1:C:506:GLY:O	1:C:507:GLU:HB2	2.03	0.57
1:A:78:ILE:HG22	1:A:819:ASN:HD22	1.70	0.57
1:E:241:GLN:HG2	1:E:762:ILE:O	2.05	0.57
1:C:1007:GLY:O	1:C:1010:VAL:N	2.31	0.57
1:C:552:MET:SD	1:C:908:VAL:HB	2.44	0.57
1:C:909:ILE:HG13	1:C:910:GLY:H	1.69	0.57
1:E:578:THR:HB	1:E:579:PRO:HD2	1.86	0.57
1:A:749:VAL:HG13	1:A:753:TRP:CZ3	2.40	0.57
1:A:757:TYR:CE1	1:A:769:ARG:HG2	2.40	0.57
1:E:413:VAL:HA	1:E:493:CYS:SG	2.44	0.57
1:C:668:PRO:HB2	1:C:672:LEU:CD2	2.35	0.57
1:A:75:LEU:HD23	1:A:75:LEU:C	2.25	0.57
1:B:595:ARG:NH1	1:B:595:ARG:HG2	2.18	0.57
1:C:189:ASP:HA	1:C:775:ARG:HD3	1.87	0.57
1:C:1:MET:O	1:C:4:PHE:HB3	2.05	0.57
1:D:407:ASP:O	1:D:410:ILE:HB	2.05	0.57
1:D:541:TYR:C	1:D:544:ILE:HG22	2.25	0.57
1:C:142:VAL:HG22	1:C:154:LEU:HD22	1.86	0.57
1:F:896:ILE:HG13	1:F:945:VAL:CG1	2.35	0.57
1:E:561:THR:HG22	1:E:922:ASN:ND2	2.19	0.57
1:F:753:TRP:HE1	1:F:785:LEU:HB3	1.70	0.57
1:F:47:VAL:HG12	1:F:48:SER:H	1.68	0.57
1:E:212:VAL:HG22	1:E:213:GLN:N	2.19	0.57
1:D:936:LEU:HD12	1:D:980:PHE:CD2	2.39	0.57
1:E:542:LEU:HD21	1:E:1022:LEU:HD22	1.86	0.57
1:B:562:ALA:O	1:B:923:ASP:HA	2.04	0.57
1:D:423:GLU:O	1:D:425:LEU:HD12	2.05	0.57
1:C:1:MET:H3	2:C:2002:LMT:C6'	2.08	0.57
1:B:46:GLN:HA	1:B:88:MET:HE3	1.86	0.57
1:D:213:GLN:NE2	1:D:239:ARG:H	2.02	0.57
1:C:324:VAL:HG23	1:C:326:PRO:HD3	1.85	0.57
1:A:555:MET:HB2	1:A:912:LEU:HD13	1.87	0.57
1:D:1024:TYR:O	1:D:1028:SER:CB	2.51	0.57
1:C:127:ILE:HD12	1:C:127:ILE:N	2.18	0.57
1:C:432:ARG:HG2	1:C:432:ARG:HH11	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:831:ALA:HB3	1:A:834:LEU:CD1	2.35	0.57
1:C:872:ALA:HB3	1:C:873:PRO:HD3	1.86	0.57
1:B:559:ILE:HD11	1:B:921:SER:HA	1.87	0.57
1:D:729:GLU:HB3	1:D:805:THR:O	2.05	0.57
1:D:18:VAL:CG1	2:E:2002:LMT:C12	2.83	0.56
1:A:622:GLN:HB2	1:C:231:ASN:ND2	2.20	0.56
1:B:595:ARG:HH11	1:B:595:ARG:CG	2.16	0.56
1:A:791:ARG:HE	1:A:797:MET:HE1	1.70	0.56
1:A:604:SER:O	1:A:632:LYS:HD2	2.05	0.56
1:A:498:LYS:N	1:A:499:PRO:CD	2.68	0.56
1:C:254:ASN:HB3	1:C:255:PRO:CD	2.35	0.56
1:A:465:VAL:O	1:A:469:GLN:HG2	2.04	0.56
1:B:695:LEU:O	1:B:698:ALA:HB3	2.05	0.56
1:D:380:PHE:CD1	1:D:398:MET:HE1	2.40	0.56
1:A:658:PHE:HD2	1:A:660:ASP:HB3	1.70	0.56
1:C:456:MET:HG3	1:C:471:SER:OG	2.05	0.56
1:D:18:VAL:HG11	2:E:2002:LMT:H112	1.87	0.56
1:B:60:THR:CG2	1:B:119:PRO:HG3	2.34	0.56
1:F:1011:THR:HB	1:F:1015:LEU:HD23	1.86	0.56
1:A:415:ASN:ND2	1:A:418:ARG:HH21	2.03	0.56
1:B:339:GLU:HG3	1:B:998:GLN:OE1	2.05	0.56
1:D:871:GLN:HE21	2:D:2001:LMT:C4B	2.18	0.56
1:C:910:GLY:O	1:C:1007:GLY:C	2.44	0.56
1:E:445:ILE:CD1	1:E:939:LYS:HE3	2.35	0.56
1:C:347:ALA:O	1:C:351:VAL:HG23	2.05	0.56
1:F:544:ILE:HD11	1:F:1019:TRP:CZ2	2.40	0.56
1:C:382:VAL:HG12	1:C:472:ILE:HD11	1.88	0.56
2:A:1102:LMT:O5B	2:A:1102:LMT:H6D	2.06	0.56
1:B:282:ASN:CA	1:B:595:ARG:HD2	2.35	0.56
1:A:448:VAL:HG21	1:A:890:LEU:HD12	1.86	0.56
1:D:219:LEU:HB2	1:D:232:ALA:N	2.20	0.56
1:D:64:VAL:CG2	1:D:118:LEU:HD11	2.34	0.56
1:B:367:ILE:HD12	1:B:367:ILE:N	2.21	0.56
1:E:134:LYS:HZ2	1:E:134:LYS:HB2	1.70	0.56
1:A:701:LYS:O	1:A:705:LEU:HB2	2.05	0.56
1:F:981:ILE:HG23	1:F:1006:ILE:CD1	2.35	0.56
1:A:72:ILE:HD11	1:A:110:LYS:CG	2.35	0.56
1:B:592:ASP:C	1:B:594:MET:N	2.58	0.56
1:E:420:MET:HE1	1:E:427:PRO:CA	2.35	0.56
1:E:83:ASN:ND2	1:E:620:ARG:HD3	2.21	0.56
1:D:789:TYR:CE2	1:D:799:PRO:HB3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:988:ALA:O	1:D:989:ILE:HG13	2.03	0.56
1:F:142:VAL:HG13	1:F:154:LEU:HD22	1.86	0.56
1:F:321:MET:O	1:F:322:LYS:C	2.43	0.56
1:E:431:ALA:CB	1:E:494:ALA:HB2	2.35	0.56
1:C:545:TYR:CE1	1:C:1023:PHE:HZ	2.23	0.56
1:A:169:THR:O	1:A:170:LYS:C	2.44	0.56
1:C:418:ARG:HD2	1:C:968:MET:HE2	1.87	0.56
1:B:338:HIS:C	1:B:340:VAL:H	2.06	0.56
1:F:903:VAL:HG22	1:F:1020:VAL:HG22	1.86	0.56
1:F:38:ILE:HD12	1:F:671:VAL:HG11	1.87	0.56
1:D:172:VAL:HG23	1:D:291:ILE:HG23	1.87	0.56
1:B:225:VAL:HG22	1:C:780:MET:SD	2.45	0.56
1:C:339:GLU:O	1:C:342:LYS:N	2.38	0.56
1:A:281:PHE:O	1:A:282:ASN:HB2	2.05	0.56
1:B:633:PRO:HB3	1:B:635:GLU:OE2	2.06	0.56
1:B:741:SER:O	1:B:742:LEU:HB2	2.05	0.56
1:B:549:VAL:O	1:B:552:MET:N	2.37	0.56
1:D:405:LEU:C	1:D:405:LEU:CD1	2.72	0.56
1:E:132:ALA:O	1:E:134:LYS:HE3	2.04	0.56
1:E:298:ASN:O	1:E:302:THR:HG23	2.06	0.56
1:B:489:THR:OG1	1:B:490:PRO:HD3	2.06	0.56
1:F:890:LEU:HD23	1:F:891:TYR:CE2	2.41	0.56
1:A:528:GLU:OE1	1:A:967:ARG:HD3	2.06	0.56
1:F:445:ILE:HG13	1:F:446:ALA:N	2.20	0.56
1:E:956:LYS:NZ	1:E:964:GLU:OE2	2.38	0.56
1:F:693:GLU:O	1:F:697:GLN:HG2	2.04	0.56
1:A:881:LEU:HD23	1:A:881:LEU:O	2.05	0.56
1:C:929:GLY:HA2	1:C:932:THR:HG23	1.86	0.56
1:A:1013:THR:O	1:A:1017:ILE:HG23	2.05	0.56
1:A:250:LEU:HD11	1:A:259:GLN:HB2	1.88	0.56
1:C:936:LEU:HD13	1:C:1009:MET:HB2	1.87	0.56
1:A:878:LEU:HD21	1:C:25:LEU:HD11	1.87	0.56
1:C:660:ASP:O	1:C:661:ALA:HB2	2.06	0.56
1:B:462:SER:HB2	1:B:864:GLU:OE1	2.05	0.56
1:F:884:PHE:CD1	1:F:897:PRO:HB2	2.41	0.56
1:D:1009:MET:O	1:D:1013:THR:CG2	2.53	0.56
1:C:361:ASN:O	1:C:364:ALA:N	2.39	0.56
2:E:2001:LMT:H123	2:E:2002:LMT:C11	2.33	0.56
1:A:250:LEU:HD13	1:A:261:ARG:NH1	2.20	0.56
1:C:897:PRO:O	1:C:901:MET:HG2	2.06	0.56
1:F:159:VAL:CG2	1:F:177:VAL:HG11	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:452:VAL:HG11	1:C:934:ILE:HG23	1.88	0.56
1:D:140:VAL:HB	1:D:289:ILE:HG13	1.87	0.56
1:A:472:ILE:HD13	1:A:473:THR:N	2.20	0.56
1:E:632:LYS:HG2	1:E:637:ARG:HD3	1.88	0.56
1:C:237:LYS:C	1:C:238:THR:HG23	2.25	0.56
1:F:33:ASN:O	1:F:391:ASN:HA	2.06	0.56
1:E:441:ALA:O	1:E:445:ILE:HG23	2.06	0.56
1:B:754:GLY:O	1:B:755:SER:CB	2.52	0.56
1:D:319:GLN:H	1:D:319:GLN:CD	2.09	0.56
1:D:404:LEU:CD2	1:D:936:LEU:HG	2.35	0.56
1:D:284:SER:HB2	1:D:285:PRO:HD2	1.87	0.56
1:D:112:GLN:HG3	1:E:112:GLN:CD	2.26	0.56
1:A:644:VAL:HG13	1:A:645:PHE:H	1.71	0.56
1:C:336:SER:O	1:C:340:VAL:HG12	2.06	0.56
1:C:187:TRP:HB3	1:C:775:ARG:HA	1.87	0.56
1:B:10:ILE:CG2	1:C:888:ALA:O	2.54	0.56
1:C:896:ILE:HD12	1:C:896:ILE:N	2.20	0.56
1:B:542:LEU:O	1:B:545:TYR:HB3	2.06	0.56
1:F:830:PRO:CB	1:F:839:ALA:HB2	2.36	0.56
1:E:994:GLY:O	1:E:998:GLN:HG3	2.06	0.56
1:C:469:GLN:O	1:C:473:THR:HG23	2.06	0.56
1:C:912:LEU:HD23	1:C:926:PHE:CZ	2.35	0.56
1:E:905:PRO:O	1:E:908:VAL:HG12	2.06	0.56
1:C:34:GLN:O	1:C:391:ASN:HB2	2.06	0.56
1:F:900:VAL:HG23	1:F:901:MET:N	2.20	0.56
1:A:253:VAL:HG13	1:A:258:SER:O	2.06	0.56
1:E:682:LEU:HD22	1:E:858:TRP:CZ3	2.41	0.56
1:D:423:GLU:O	1:D:424:GLY:O	2.24	0.56
1:C:186:ILE:HG12	1:C:268:VAL:HG22	1.87	0.56
1:E:535:LEU:HD13	1:E:959:VAL:HG23	1.87	0.56
1:C:881:LEU:HD22	1:C:885:LEU:HD11	1.86	0.56
1:B:906:LEU:HG	1:B:1015:LEU:CB	2.35	0.56
1:F:849:GLN:C	1:F:850:LEU:HD12	2.26	0.56
1:A:78:ILE:CG2	1:A:819:ASN:HA	2.36	0.56
1:F:435:MET:HE1	1:F:438:ILE:HD11	1.88	0.56
1:A:350:LEU:HD12	1:A:982:LEU:HG	1.88	0.56
1:F:692:HIS:O	1:F:696:LEU:HG	2.06	0.55
1:A:584:ALA:H	1:A:622:GLN:NE2	2.01	0.55
1:B:712:LEU:HD21	1:B:842:ALA:HB3	1.89	0.55
1:C:418:ARG:HH21	1:C:419:VAL:CG2	2.18	0.55
1:B:338:HIS:O	1:B:340:VAL:N	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:844:GLU:C	1:D:847:VAL:HG12	2.27	0.55
1:C:15:ILE:HG13	1:C:16:ALA:N	2.21	0.55
1:C:971:ARG:N	1:C:972:PRO:HD2	2.21	0.55
1:D:435:MET:O	1:D:437:GLN:O	2.23	0.55
1:C:839:ALA:O	1:C:843:VAL:HG23	2.06	0.55
1:D:485:ALA:O	1:D:490:PRO:HD3	2.05	0.55
1:B:140:VAL:HB	1:B:289:ILE:HD12	1.87	0.55
1:F:520:PHE:HA	1:F:523:THR:HG22	1.88	0.55
1:D:371:ALA:O	1:D:374:VAL:N	2.39	0.55
1:F:410:ILE:HD13	1:F:975:MET:HE3	1.88	0.55
1:D:578:THR:HB	1:D:579:PRO:HD2	1.89	0.55
1:C:592:ASP:HA	1:C:595:ARG:HG2	1.88	0.55
1:D:830:PRO:HB3	1:D:839:ALA:HB2	1.88	0.55
1:F:537:HIS:O	1:F:538:ARG:C	2.45	0.55
1:A:687:GLN:NE2	1:A:821:VAL:HG21	2.21	0.55
1:A:456:MET:CE	1:A:931:LEU:HD12	2.36	0.55
1:E:445:ILE:HD13	1:E:939:LYS:HE3	1.88	0.55
1:F:899:SER:O	1:F:902:LEU:HB2	2.07	0.55
1:A:225:VAL:H	1:B:780:MET:HE1	1.71	0.55
1:B:172:VAL:HG22	1:B:306:ILE:CD1	2.36	0.55
1:E:47:VAL:HG12	1:E:48:SER:H	1.71	0.55
1:C:572:LEU:HD12	1:C:666:PHE:O	2.06	0.55
1:F:328:ASP:H	1:F:630:MET:CE	2.19	0.55
1:B:241:GLN:NE2	1:B:762:ILE:HG22	2.21	0.55
1:A:282:ASN:O	1:A:595:ARG:HD3	2.06	0.55
1:A:46:GLN:HG2	1:A:89:THR:HG23	1.88	0.55
1:C:62:VAL:O	1:C:66:GLU:HG3	2.06	0.55
1:A:145:THR:HB	1:A:320:GLY:HA2	1.87	0.55
1:B:714:ARG:O	1:B:828:GLY:HA2	2.05	0.55
1:D:64:VAL:HG21	1:D:118:LEU:CD1	2.37	0.55
1:B:631:LEU:HD12	1:B:644:VAL:HG22	1.86	0.55
1:A:727:LYS:HA	1:C:235:ILE:HB	1.88	0.55
1:A:167:SER:HB3	1:B:70:ASN:CB	2.36	0.55
1:A:644:VAL:O	1:A:648:ALA:N	2.40	0.55
1:D:530:GLY:O	1:D:533:SER:HB3	2.06	0.55
1:A:1017:ILE:HG13	1:A:1018:PHE:CD1	2.42	0.55
1:A:65:ILE:HD13	1:A:114:ALA:HB1	1.89	0.55
1:E:188:LEU:HA	1:E:266:ALA:CB	2.36	0.55
1:D:749:VAL:HA	1:D:753:TRP:CE3	2.42	0.55
1:D:410:ILE:O	1:D:413:VAL:HG13	2.07	0.55
1:B:572:LEU:HD23	1:B:573:PHE:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:298:ASN:ND2	1:D:301:ASP:H	2.03	0.55
1:E:31:PRO:HB2	1:E:389:SER:HB2	1.88	0.55
1:C:959:VAL:O	1:C:960:GLU:C	2.45	0.55
1:A:918:ARG:NH2	1:A:1003:THR:HG21	2.21	0.55
1:A:214:ILE:HD11	1:A:237:LYS:H	1.71	0.55
1:F:11:PHE:O	1:F:11:PHE:HD2	1.89	0.55
1:C:717:PRO:CA	1:C:826:ILE:HG22	2.33	0.55
1:C:520:PHE:CA	1:C:523:THR:HG22	2.35	0.55
1:E:806:GLY:O	1:E:807:LYS:HB2	2.06	0.55
1:B:900:VAL:HG23	1:B:941:ALA:CB	2.33	0.55
1:B:745:ILE:HD12	1:B:803:PHE:CZ	2.42	0.55
1:B:541:TYR:O	1:B:544:ILE:HG22	2.07	0.55
1:E:184:MET:O	1:E:770:VAL:HA	2.07	0.55
1:D:731:ASP:C	1:D:733:GLU:H	2.10	0.55
1:F:922:ASN:OD1	1:F:926:PHE:HD2	1.90	0.55
1:E:302:THR:O	1:E:306:ILE:HG13	2.07	0.55
1:C:635:GLU:CD	1:C:635:GLU:H	2.10	0.55
1:D:178:PHE:HA	1:D:277:ILE:HG21	1.88	0.55
1:E:930:LEU:O	1:E:934:ILE:HG23	2.06	0.55
1:F:527:TYR:OH	1:F:1017:ILE:O	2.22	0.55
1:E:280:GLN:HB2	1:E:611:THR:OG1	2.07	0.55
1:B:555:MET:HE3	1:B:916:SER:CB	2.37	0.55
1:F:780:MET:HA	1:F:780:MET:HE2	1.87	0.55
1:A:695:LEU:HD22	1:A:824:MET:SD	2.47	0.55
1:D:554:TRP:CZ2	1:D:558:ARG:HD2	2.42	0.55
1:D:577:GLN:NE2	1:D:623:SER:O	2.40	0.55
1:F:214:ILE:HD11	1:F:237:LYS:H	1.72	0.55
1:F:591:VAL:HG13	1:F:611:THR:OG1	2.05	0.55
1:E:891:TYR:OH	1:E:942:ILE:HA	2.06	0.55
1:F:1023:PHE:O	1:F:1027:VAL:HG13	2.07	0.55
1:B:716:ARG:N	1:B:716:ARG:HD3	2.21	0.55
1:D:915:THR:HG21	1:D:926:PHE:CD1	2.42	0.55
1:C:785:LEU:HD13	1:C:800:PHE:HE2	1.72	0.55
1:C:139:VAL:HB	1:C:326:PRO:HG2	1.88	0.55
1:A:643:SER:OG	1:A:644:VAL:N	2.39	0.55
1:F:726:TYR:OH	1:F:782:PRO:HB3	2.07	0.55
1:A:909:ILE:HG13	1:A:910:GLY:N	2.21	0.55
1:A:973:ILE:O	1:A:976:THR:HG22	2.06	0.55
1:E:831:ALA:HB3	1:E:834:LEU:HD13	1.89	0.55
1:F:200:PRO:HG3	1:F:748:THR:HA	1.89	0.55
1:B:129:VAL:H	1:C:112:GLN:HE22	1.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:10:ILE:O	1:C:14:VAL:HG23	2.07	0.55
1:B:483:ILE:HG22	1:B:487:ILE:HD12	1.88	0.55
1:C:156:ASN:HA	1:C:181:GLN:HA	1.88	0.55
1:D:1016:ALA:HB1	1:D:1020:VAL:HG23	1.89	0.55
1:B:445:ILE:HD11	1:B:449:LEU:HD11	1.87	0.55
1:D:754:GLY:HA2	1:F:217:GLY:CA	2.36	0.55
1:A:372:VAL:HB	1:A:373:PRO:CD	2.37	0.55
1:A:984:VAL:HG11	1:A:1005:VAL:HG22	1.88	0.55
1:C:685:GLN:HB3	1:C:823:ALA:HB2	1.88	0.55
1:A:830:PRO:HG2	1:A:836:SER:HA	1.88	0.55
1:C:702:PHE:HZ	1:C:843:VAL:HG13	1.72	0.55
1:F:789:TYR:CZ	1:F:799:PRO:HG3	2.42	0.55
1:F:669:PRO:HG3	1:F:861:LEU:HD11	1.88	0.55
1:A:672:LEU:H	1:A:672:LEU:HD12	1.72	0.55
1:A:535:LEU:HD21	1:A:1021:PRO:O	2.06	0.54
1:D:753:TRP:CZ2	1:D:785:LEU:HG	2.42	0.54
1:C:958:ILE:O	1:C:961:ALA:HB3	2.07	0.54
1:B:784:ASP:O	1:B:787:LYS:HB2	2.07	0.54
1:D:595:ARG:HH11	1:D:595:ARG:HG3	1.72	0.54
1:A:283:GLY:HA2	1:A:595:ARG:NH1	2.22	0.54
1:E:169:THR:HB	1:E:172:VAL:HG21	1.89	0.54
1:A:30:LEU:HD21	1:A:384:ALA:HA	1.89	0.54
1:A:1002:GLY:O	1:A:1006:ILE:HG13	2.07	0.54
1:D:453:PHE:O	1:D:471:SER:OG	2.24	0.54
1:A:186:ILE:HD13	1:A:262:LEU:HD21	1.89	0.54
1:E:682:LEU:CD1	1:E:856:TYR:HB2	2.38	0.54
1:D:423:GLU:O	1:D:424:GLY:C	2.43	0.54
1:D:924:VAL:O	1:D:928:VAL:HB	2.07	0.54
1:F:1001:ILE:O	1:F:1001:ILE:HD12	2.08	0.54
1:C:757:TYR:OH	1:C:760:ASP:OD1	2.25	0.54
1:E:868:SER:O	1:E:871:GLN:HG2	2.07	0.54
1:F:446:ALA:HA	1:F:478:MET:HE3	1.90	0.54
1:A:872:ALA:N	1:A:873:PRO:HD2	2.22	0.54
1:E:348:ILE:C	1:E:348:ILE:HD12	2.27	0.54
1:E:910:GLY:HA3	1:E:1011:THR:CG2	2.37	0.54
1:E:901:MET:O	1:E:904:VAL:HG23	2.08	0.54
1:D:18:VAL:HG11	2:E:2002:LMT:C11	2.37	0.54
2:E:2001:LMT:H122	2:E:2002:LMT:H102	1.88	0.54
1:E:828:GLY:O	1:E:829:GLU:HB3	2.07	0.54
1:D:32:VAL:CG1	1:D:300:LEU:HD12	2.37	0.54
1:C:451:ALA:HB1	1:C:882:VAL:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:780:MET:HE3	1:C:228:GLN:HG2	1.89	0.54
1:B:282:ASN:ND2	1:B:608:SER:HB2	2.22	0.54
1:E:42:ALA:HB3	1:E:132:ALA:HB3	1.89	0.54
1:E:455:PRO:HG2	1:E:879:SER:HB2	1.89	0.54
1:A:78:ILE:H	1:A:819:ASN:ND2	2.05	0.54
1:E:1:MET:O	1:E:4:PHE:HB3	2.06	0.54
1:F:788:TRP:O	1:F:800:PHE:HB2	2.08	0.54
1:A:1016:ALA:HB1	1:A:1020:VAL:HG23	1.89	0.54
1:F:902:LEU:HB3	1:F:1023:PHE:CE1	2.41	0.54
1:A:448:VAL:HG11	1:A:887:LEU:HD21	1.89	0.54
1:C:925:PHE:CD1	1:C:1001:ILE:HB	2.43	0.54
1:A:239:ARG:NH1	1:A:760:ASP:O	2.40	0.54
1:F:418:ARG:NH2	1:F:437:GLN:OE1	2.40	0.54
1:C:194:ASN:OD1	1:C:797:MET:HG2	2.07	0.54
1:C:931:LEU:O	1:C:934:ILE:HG23	2.07	0.54
1:C:966:CYS:SG	1:C:1021:PRO:HG3	2.48	0.54
1:D:281:PHE:CE1	1:D:608:SER:HB2	2.42	0.54
1:C:909:ILE:HG13	1:C:910:GLY:N	2.22	0.54
1:E:714:ARG:O	1:E:716:ARG:HD3	2.06	0.54
1:A:446:ALA:HB1	1:A:482:VAL:HG21	1.89	0.54
1:D:713:GLN:OE1	1:D:832:PRO:HD3	2.08	0.54
1:A:435:MET:O	1:A:439:GLN:HB2	2.07	0.54
1:B:785:LEU:HD12	1:B:786:SER:N	2.22	0.54
1:A:755:SER:HB3	1:A:773:GLN:NE2	2.23	0.54
1:E:169:THR:O	1:E:172:VAL:HG23	2.08	0.54
1:A:318:PRO:HD2	1:A:321:MET:SD	2.48	0.54
1:C:778:ALA:HA	1:C:784:ASP:OD1	2.07	0.54
1:D:146:ASP:O	1:D:148:SER:N	2.40	0.54
1:B:441:ALA:O	1:B:445:ILE:CG2	2.54	0.54
1:C:165:PRO:O	1:C:169:THR:OG1	2.26	0.54
1:B:189:ASP:HB3	1:B:192:LYS:HB2	1.90	0.54
1:C:435:MET:HA	1:C:435:MET:HE3	1.90	0.54
1:C:630:MET:O	1:C:631:LEU:HD23	2.07	0.54
1:D:6:ILE:CG2	1:D:6:ILE:O	2.54	0.54
1:B:908:VAL:CB	1:B:930:LEU:HD11	2.37	0.54
1:F:830:PRO:CA	1:F:839:ALA:HB2	2.38	0.54
1:B:729:GLU:HB2	1:B:805:THR:HG22	1.88	0.54
1:D:977:SER:HB3	1:D:1013:THR:HG21	1.89	0.54
1:F:141:GLY:O	1:F:323:VAL:HG23	2.08	0.54
1:F:485:ALA:O	1:F:490:PRO:HD3	2.07	0.54
1:D:212:VAL:CG2	1:D:237:LYS:HG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:493:CYS:O	1:F:497:LEU:HB2	2.08	0.54
1:B:43:ILE:HG12	1:B:104:GLN:HA	1.89	0.54
1:A:938:ALA:O	1:A:942:ILE:HG12	2.06	0.54
1:E:878:LEU:HD12	2:E:2001:LMT:H31	1.89	0.54
1:A:65:ILE:HD13	1:A:114:ALA:CB	2.37	0.54
1:B:132:ALA:O	1:B:134:LYS:HE3	2.07	0.54
1:F:631:LEU:HD12	1:F:637:ARG:HH12	1.71	0.54
1:D:154:LEU:HD13	1:D:286:ALA:HA	1.89	0.54
1:D:125:GLN:NE2	1:D:769:ARG:HH12	2.05	0.54
1:D:47:VAL:HG12	1:D:88:MET:CE	2.36	0.54
1:E:559:ILE:HD13	1:E:560:PRO:CD	2.37	0.54
1:D:380:PHE:CZ	1:D:398:MET:HE3	2.43	0.54
1:E:728:LEU:HD11	1:E:800:PHE:CZ	2.43	0.54
1:C:65:ILE:O	1:C:69:MET:HG2	2.07	0.54
1:A:342:LYS:O	1:A:346:GLU:HG3	2.08	0.54
1:C:634:TRP:CE2	1:C:993:ALA:HB2	2.43	0.54
1:C:182:TYR:O	1:C:768:LYS:HD3	2.08	0.54
1:D:467:TYR:O	1:D:468:ARG:C	2.46	0.54
1:E:854:VAL:HG12	1:E:855:GLY:N	2.23	0.54
1:D:367:ILE:CB	1:D:368:PRO:HD3	2.35	0.54
1:D:367:ILE:HB	1:D:368:PRO:CD	2.36	0.54
1:B:61:VAL:CG2	1:B:122:VAL:HG21	2.38	0.54
1:C:936:LEU:HB3	1:C:1009:MET:HE3	1.90	0.54
1:B:915:THR:CG2	1:B:920:LEU:HB2	2.36	0.54
1:D:171:GLY:HA3	1:D:302:THR:HB	1.89	0.54
1:D:171:GLY:O	1:D:293:LEU:HD12	2.08	0.54
1:A:652:GLN:HE22	1:A:664:PHE:HD1	1.53	0.54
1:E:868:SER:HA	1:E:871:GLN:HE21	1.71	0.54
1:F:699:ARG:O	1:F:703:LEU:HG	2.07	0.54
1:A:403:GLY:HA3	1:A:980:PHE:HD1	1.72	0.54
1:D:314:GLU:HB2	1:D:315:PRO:HD3	1.90	0.54
1:C:542:LEU:O	1:C:546:VAL:HG23	2.08	0.54
1:C:344:LEU:O	1:C:347:ALA:HB3	2.08	0.54
1:A:169:THR:O	1:A:172:VAL:HG13	2.08	0.54
1:A:166:LEU:HD22	1:A:306:ILE:HG23	1.90	0.54
1:F:572:LEU:HB3	1:F:629:ILE:CB	2.34	0.54
1:A:739:GLY:O	1:A:740:VAL:C	2.46	0.54
1:A:417:GLU:HA	1:A:420:MET:CE	2.38	0.54
1:B:439:GLN:O	1:B:443:VAL:HG23	2.07	0.54
1:E:197:GLN:HE21	1:E:252:LYS:HZ1	1.54	0.54
1:A:68:GLN:O	1:A:70:ASN:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:347:ALA:O	1:F:351:VAL:HG23	2.08	0.54
1:B:661:ALA:O	1:B:663:VAL:HG23	2.07	0.54
1:E:609:VAL:CG1	1:E:627:ALA:HB1	2.38	0.54
1:C:1007:GLY:O	1:C:1010:VAL:HB	2.08	0.54
1:B:375:VAL:CG1	1:B:405:LEU:HD11	2.30	0.54
1:B:178:PHE:HB3	2:B:2001:LMT:H41	1.90	0.54
1:D:57:VAL:O	1:D:61:VAL:HB	2.07	0.54
1:C:435:MET:CE	1:C:438:ILE:HD11	2.36	0.54
1:F:15:ILE:HD13	1:F:16:ALA:N	2.22	0.54
1:C:736:SER:HA	1:C:740:VAL:O	2.07	0.54
1:B:438:ILE:HG13	1:B:439:GLN:N	2.23	0.54
1:D:685:GLN:HB2	1:D:687:GLN:HE22	1.73	0.54
1:A:757:TYR:HE1	1:A:769:ARG:HG2	1.73	0.54
1:F:250:LEU:HG	1:F:261:ARG:NH1	2.23	0.54
1:F:39:ALA:HB2	1:F:673:GLU:HB3	1.90	0.54
1:E:58:GLN:O	1:E:63:GLN:HG3	2.08	0.54
1:B:330:THR:HB	1:B:331:PRO:HD3	1.90	0.54
1:F:298:ASN:O	1:F:299:ALA:C	2.46	0.54
1:D:881:LEU:HD22	1:D:885:LEU:HD22	1.89	0.54
2:D:2001:LMT:H5'	1:F:29:SER:OG	2.08	0.53
1:B:246:PHE:O	1:B:249:ILE:HG12	2.07	0.53
1:B:568:ASP:OD1	1:B:644:VAL:HG23	2.07	0.53
1:F:84:SER:HB2	1:F:723:GLU:OE1	2.08	0.53
1:D:441:ALA:O	1:D:442:LEU:C	2.46	0.53
1:B:669:PRO:HG2	1:B:672:LEU:HA	1.90	0.53
1:F:75:LEU:HD12	1:F:93:THR:O	2.08	0.53
1:E:740:VAL:HG13	1:E:740:VAL:O	2.08	0.53
1:D:588:GLN:O	1:D:592:ASP:HB2	2.08	0.53
1:D:210:GLN:NE2	1:D:249:ILE:HG23	2.23	0.53
1:E:432:ARG:O	1:E:435:MET:N	2.40	0.53
1:C:182:TYR:HA	1:C:271:GLY:O	2.08	0.53
1:D:18:VAL:HG11	2:E:2002:LMT:H121	1.90	0.53
1:C:172:VAL:HG22	1:C:291:ILE:HD12	1.90	0.53
1:C:686:ASP:CB	1:C:695:LEU:HD21	2.37	0.53
1:D:534:ILE:HG22	1:D:1022:LEU:CD2	2.38	0.53
1:C:143:VAL:HG12	1:C:322:LYS:HG2	1.90	0.53
1:E:351:VAL:HG13	1:E:410:ILE:HD11	1.90	0.53
1:C:104:GLN:O	1:C:107:VAL:HB	2.08	0.53
1:C:283:GLY:N	1:C:595:ARG:CZ	2.71	0.53
1:A:36:PRO:HG3	1:A:469:GLN:HG3	1.90	0.53
1:A:187:TRP:O	1:A:266:ALA:HB1	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:LEU:HD12	1:A:266:ALA:HB2	1.90	0.53
1:B:732:ASP:OD1	1:B:742:LEU:HD11	2.08	0.53
1:A:149:MET:CE	1:A:153:ASP:HB3	2.38	0.53
1:D:5:PHE:CG	1:D:487:ILE:HG23	2.43	0.53
1:F:24:GLY:O	1:F:25:LEU:C	2.45	0.53
1:A:958:ILE:HG12	1:A:959:VAL:N	2.24	0.53
1:E:786:SER:CA	1:E:801:ASN:HD22	2.21	0.53
1:D:664:PHE:HD2	1:D:666:PHE:HD2	1.56	0.53
1:E:44:ALA:O	1:E:129:VAL:HA	2.07	0.53
1:A:435:MET:SD	1:A:438:ILE:HD11	2.48	0.53
1:C:243:ALA:HB1	1:C:268:VAL:O	2.08	0.53
1:C:240:LEU:O	1:C:241:GLN:HB2	2.06	0.53
1:F:502:LYS:O	1:F:504:ASP:N	2.41	0.53
1:B:1001:ILE:C	1:B:1001:ILE:HD13	2.28	0.53
1:B:584:ALA:HB1	1:B:613:THR:HG21	1.91	0.53
1:E:527:TYR:O	1:E:531:VAL:HG23	2.08	0.53
1:C:207:ILE:HG21	1:C:758:VAL:HG21	1.90	0.53
1:B:175:PHE:HA	1:B:290:ALA:O	2.08	0.53
1:B:27:ILE:C	1:B:27:ILE:HD12	2.28	0.53
1:D:254:ASN:HB2	1:D:258:SER:O	2.08	0.53
1:C:357:LEU:HD21	1:C:516:PHE:CZ	2.43	0.53
1:D:909:ILE:O	1:D:913:LEU:HD13	2.07	0.53
1:B:616:ASN:HD22	1:B:618:ALA:H	1.54	0.53
1:B:616:ASN:HB2	1:B:624:SER:HB3	1.90	0.53
1:D:302:THR:O	1:D:306:ILE:HG13	2.08	0.53
1:B:901:MET:O	1:B:904:VAL:HG23	2.07	0.53
1:A:162:ILE:O	1:A:165:PRO:HD2	2.09	0.53
1:B:655:PHE:O	1:B:658:PHE:HB2	2.07	0.53
1:A:579:PRO:HG2	1:A:582:SER:OG	2.09	0.53
1:D:195:SER:O	1:D:197:GLN:N	2.40	0.53
1:B:489:THR:OG1	1:B:490:PRO:CD	2.55	0.53
1:B:426:SER:HB2	1:B:427:PRO:HD2	1.90	0.53
1:E:375:VAL:CG1	1:E:405:LEU:HD13	2.39	0.53
1:F:616:ASN:C	1:F:616:ASN:HD22	2.10	0.53
1:C:67:GLN:O	1:C:67:GLN:OE1	2.26	0.53
1:B:528:GLU:CD	1:B:967:ARG:HG3	2.29	0.53
1:F:360:GLN:HB3	1:F:513:PHE:CE2	2.44	0.53
1:E:61:VAL:HG12	1:E:88:MET:HE3	1.91	0.53
1:D:713:GLN:HG3	1:D:714:ARG:N	2.24	0.53
1:A:756:SER:O	1:A:771:TYR:HA	2.08	0.53
1:C:326:PRO:HB3	1:C:610:PHE:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:672:LEU:O	1:D:674:LEU:N	2.42	0.53
1:C:596:GLU:O	1:C:600:GLU:HG2	2.07	0.53
1:D:378:GLY:O	1:D:381:GLY:N	2.41	0.53
1:A:354:VAL:O	1:A:357:LEU:HB3	2.08	0.53
1:F:344:LEU:C	1:F:344:LEU:HD13	2.29	0.53
1:C:389:SER:O	1:C:391:ASN:ND2	2.41	0.53
1:B:616:ASN:HB3	1:B:619:GLY:O	2.09	0.53
1:F:564:LEU:HD13	1:F:924:VAL:CG2	2.39	0.53
1:A:791:ARG:NE	1:A:797:MET:HE1	2.23	0.53
1:B:745:ILE:O	1:B:748:THR:HB	2.08	0.53
1:F:300:LEU:CD2	1:F:330:THR:HG23	2.38	0.53
1:B:847:VAL:O	1:B:850:LEU:CG	2.55	0.53
1:A:303:ALA:HB2	1:A:330:THR:HG21	1.89	0.53
1:F:966:CYS:SG	1:F:1021:PRO:HG3	2.48	0.53
1:A:552:MET:HB2	1:A:909:ILE:HG23	1.90	0.53
1:D:583:SER:HB3	1:D:586:ARG:HB2	1.89	0.53
1:D:498:LYS:H	1:D:499:PRO:HD2	1.74	0.53
1:F:469:GLN:O	1:F:473:THR:CG2	2.57	0.53
1:A:561:THR:HG22	1:A:922:ASN:HD22	1.72	0.53
1:E:193:LEU:HD13	1:E:265:VAL:CG1	2.31	0.53
1:B:628:PHE:CE2	2:B:2001:LMT:H111	2.44	0.53
1:A:452:VAL:HG22	1:A:883:VAL:CG2	2.38	0.53
1:B:1019:TRP:CD1	1:B:1022:LEU:HD13	2.44	0.53
1:A:222:LEU:HD21	1:B:622:GLN:OE1	2.09	0.53
1:F:706:ALA:HA	1:F:712:LEU:HD22	1.91	0.53
1:F:699:ARG:HG2	1:F:699:ARG:O	2.07	0.53
1:B:229:GLN:C	1:B:230:LEU:HD12	2.29	0.53
1:B:232:ALA:HB1	1:C:724:PRO:O	2.09	0.53
1:B:211:ASN:OD1	1:B:240:LEU:HG	2.09	0.53
1:D:223:PRO:HD3	1:E:275:TYR:CD2	2.44	0.53
1:D:451:ALA:HB1	1:D:882:VAL:HG12	1.90	0.53
1:A:563:PHE:O	1:A:564:LEU:HB2	2.07	0.53
1:E:188:LEU:HA	1:E:266:ALA:HB2	1.91	0.53
1:E:703:LEU:O	1:E:706:ALA:HB3	2.09	0.53
1:C:163:GLN:O	1:C:166:LEU:N	2.39	0.53
1:B:273:GLN:HG3	1:B:771:TYR:CE2	2.44	0.53
1:E:581:GLY:O	1:E:582:SER:O	2.27	0.53
1:B:282:ASN:HA	1:B:595:ARG:HD2	1.90	0.53
1:F:202:ASP:OD1	1:F:203:VAL:N	2.42	0.53
1:D:47:VAL:HG22	1:D:48:SER:N	2.24	0.53
1:A:156:ASN:O	1:A:160:SER:OG	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:20:MET:SD	1:C:373:PRO:O	2.66	0.53
1:D:598:LEU:HD21	1:D:629:ILE:HD13	1.89	0.53
1:D:780:MET:SD	1:F:220:GLY:HA2	2.48	0.53
1:C:417:GLU:HA	1:C:417:GLU:OE2	2.08	0.53
1:F:38:ILE:CD1	1:F:674:LEU:HD21	2.39	0.53
1:A:951:LEU:O	1:A:956:LYS:HB2	2.09	0.53
1:A:754:GLY:HA2	1:C:217:GLY:N	2.23	0.53
1:C:453:PHE:CE2	1:C:474:ILE:HD13	2.43	0.53
1:F:359:LEU:O	1:F:360:GLN:C	2.47	0.53
1:C:399:VAL:O	1:C:402:ILE:CG1	2.54	0.53
1:F:958:ILE:CD1	1:F:958:ILE:H	2.07	0.53
1:C:680:PHE:CE1	1:C:682:LEU:HD22	2.43	0.53
1:B:1006:ILE:O	1:B:1010:VAL:HG23	2.09	0.53
1:D:244:GLU:HA	1:D:247:GLU:CG	2.39	0.53
1:C:82:SER:O	1:C:814:LYS:HA	2.09	0.53
1:D:439:GLN:O	1:D:440:GLY:O	2.26	0.53
1:F:910:GLY:O	1:F:1007:GLY:HA3	2.08	0.53
1:C:345:GLY:HA2	1:C:348:ILE:HG23	1.91	0.53
1:C:263:LYS:HG3	1:C:264:ASP:OD1	2.08	0.53
1:E:617:PHE:O	1:E:618:ALA:HB2	2.09	0.53
1:C:439:GLN:HG3	1:C:440:GLY:N	2.24	0.53
1:F:641:GLU:HG3	1:F:646:GLU:HG2	1.91	0.53
1:C:246:PHE:HB2	1:C:268:VAL:HG11	1.91	0.53
1:D:780:MET:HE3	1:F:220:GLY:HA2	1.91	0.53
1:A:219:LEU:C	1:A:221:GLY:H	2.12	0.53
1:B:80:SER:HB3	1:B:90:ILE:HG12	1.91	0.53
1:C:198:LEU:HD13	1:C:251:LEU:HG	1.91	0.53
1:A:924:VAL:HG23	1:A:925:PHE:N	2.24	0.53
1:B:714:ARG:HD2	1:B:829:GLU:OE1	2.09	0.52
1:D:32:VAL:HG21	1:D:337:ILE:CD1	2.39	0.52
1:B:354:VAL:HG21	1:B:979:ALA:HB2	1.91	0.52
1:B:755:SER:HA	1:B:773:GLN:HB3	1.91	0.52
1:D:293:LEU:HG	1:D:297:ALA:HB3	1.89	0.52
1:A:649:LYS:HE3	1:A:652:GLN:HG2	1.91	0.52
1:A:947:PHE:CD2	1:A:969:ARG:HD3	2.43	0.52
1:B:781:ASN:O	1:B:784:ASP:OD1	2.26	0.52
1:B:782:PRO:O	1:B:785:LEU:HG	2.08	0.52
1:C:5:PHE:CE2	1:C:487:ILE:HG23	2.44	0.52
1:B:5:PHE:CD1	1:B:487:ILE:HG23	2.44	0.52
1:D:251:LEU:HD12	1:D:260:VAL:HG12	1.91	0.52
1:A:521:LEU:O	1:A:524:THR:HB	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:762:ILE:HG23	1:D:766:ARG:O	2.08	0.52
1:C:928:VAL:O	1:C:932:THR:CG2	2.56	0.52
1:B:314:GLU:HG2	1:B:317:MET:HE1	1.91	0.52
1:F:902:LEU:HB3	1:F:1023:PHE:CZ	2.44	0.52
1:D:634:TRP:C	1:D:636:GLU:H	2.13	0.52
1:C:583:SER:HA	1:C:622:GLN:HB3	1.91	0.52
1:A:741:SER:O	1:A:745:ILE:HG13	2.08	0.52
1:E:629:ILE:CD1	1:E:629:ILE:H	2.22	0.52
1:F:945:VAL:HG23	1:F:1020:VAL:HG12	1.91	0.52
1:E:465:VAL:O	1:E:469:GLN:HG2	2.09	0.52
1:B:250:LEU:CD2	1:B:261:ARG:HG3	2.39	0.52
1:C:184:MET:HE1	1:C:269:GLY:N	2.24	0.52
1:A:78:ILE:HG23	1:A:819:ASN:HA	1.91	0.52
1:F:445:ILE:HD12	1:F:445:ILE:C	2.29	0.52
1:A:155:SER:HB3	1:A:180:SER:O	2.08	0.52
1:E:432:ARG:O	1:E:433:LYS:C	2.48	0.52
1:A:456:MET:O	1:A:467:TYR:HB3	2.09	0.52
1:C:680:PHE:HE1	1:C:682:LEU:HD22	1.74	0.52
1:B:48:SER:HB3	2:B:2001:LMT:O2B	2.09	0.52
1:C:188:LEU:HA	1:C:266:ALA:HB2	1.91	0.52
1:B:905:PRO:HA	1:B:908:VAL:CG1	2.39	0.52
1:A:167:SER:O	1:B:70:ASN:HB2	2.09	0.52
1:B:555:MET:HE2	1:B:913:LEU:HA	1.91	0.52
1:C:452:VAL:HG11	1:C:934:ILE:HD12	1.91	0.52
1:A:57:VAL:HG21	1:A:88:MET:HB3	1.90	0.52
1:A:133:VAL:CG1	1:A:134:LYS:N	2.71	0.52
1:D:172:VAL:CG2	1:D:291:ILE:HG23	2.39	0.52
1:E:693:GLU:OE1	1:E:693:GLU:N	2.42	0.52
1:C:527:TYR:OH	1:C:1017:ILE:HB	2.09	0.52
1:A:199:THR:O	1:A:202:ASP:HB2	2.09	0.52
1:C:157:TYR:HE2	1:C:162:ILE:HD11	1.74	0.52
1:D:606:VAL:HG12	1:D:607:SER:N	2.23	0.52
1:C:723:GLU:CD	1:C:813:PRO:HB3	2.29	0.52
1:C:383:LEU:HD21	1:C:473:THR:HG22	1.92	0.52
1:E:191:ALA:C	1:E:193:LEU:N	2.61	0.52
1:A:539:ALA:HB3	1:A:540:PRO:HD3	1.91	0.52
1:B:234:ILE:HG22	1:C:726:TYR:HB3	1.92	0.52
1:F:830:PRO:HA	1:F:839:ALA:HB2	1.90	0.52
1:F:250:LEU:HG	1:F:261:ARG:NH2	2.23	0.52
1:E:493:CYS:CA	1:E:497:LEU:HD22	2.39	0.52
1:E:702:PHE:CZ	1:E:843:VAL:HG13	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:360:GLN:HG2	1:D:513:PHE:CD1	2.44	0.52
1:D:1009:MET:O	1:D:1013:THR:HG22	2.09	0.52
1:B:669:PRO:HG3	1:B:675:GLY:HA2	1.91	0.52
1:A:454:LEU:CD2	1:A:475:VAL:HG11	2.40	0.52
1:D:458:PHE:CE2	2:D:2001:LMT:H52	2.44	0.52
1:D:987:LEU:HA	1:D:998:GLN:NE2	2.23	0.52
1:C:451:ALA:HA	1:C:454:LEU:HG	1.90	0.52
1:F:696:LEU:O	1:F:700:ASN:ND2	2.42	0.52
1:C:219:LEU:O	1:C:231:ASN:HA	2.09	0.52
1:E:794:LYS:C	1:E:796:GLU:H	2.12	0.52
1:E:896:ILE:N	1:E:897:PRO:CD	2.72	0.52
1:C:303:ALA:O	1:C:306:ILE:HD13	2.10	0.52
1:C:444:GLY:O	1:C:448:VAL:HG22	2.09	0.52
1:F:984:VAL:HG23	1:F:1006:ILE:HD11	1.92	0.52
1:F:731:ASP:CG	1:F:733:GLU:HG2	2.30	0.52
1:F:252:LYS:O	1:F:260:VAL:HG23	2.10	0.52
1:E:414:GLU:OE2	1:E:972:PRO:HG3	2.10	0.52
1:D:726:TYR:CE2	1:D:806:GLY:HA3	2.45	0.52
1:D:18:VAL:HG11	2:E:2002:LMT:C12	2.40	0.52
1:F:958:ILE:HG22	1:F:1025:VAL:HG22	1.91	0.52
1:C:172:VAL:HG13	1:C:291:ILE:HD12	1.92	0.52
1:E:182:TYR:HB3	1:E:270:LEU:HD22	1.91	0.52
1:B:47:VAL:CG1	1:B:127:ILE:HG13	2.39	0.52
1:B:971:ARG:N	1:B:972:PRO:HD2	2.25	0.52
1:A:472:ILE:HD13	1:A:473:THR:H	1.75	0.52
1:D:212:VAL:HG22	1:D:237:LYS:HG2	1.92	0.52
1:A:888:ALA:HB1	1:A:893:SER:O	2.10	0.52
1:B:395:MET:O	1:B:398:MET:N	2.31	0.52
1:A:395:MET:O	1:A:399:VAL:HG23	2.09	0.52
1:A:527:TYR:CE2	1:A:1017:ILE:HB	2.44	0.52
1:C:403:GLY:O	1:C:407:ASP:OD1	2.28	0.52
1:D:943:LEU:HD13	1:D:969:ARG:HE	1.74	0.52
1:C:520:PHE:HA	1:C:523:THR:CG2	2.36	0.52
1:F:650:ARG:O	1:F:651:ALA:C	2.48	0.52
1:C:415:ASN:O	1:C:419:VAL:HG23	2.10	0.52
1:D:47:VAL:N	1:D:88:MET:HE3	2.22	0.52
1:F:189:ASP:O	1:F:193:LEU:HB2	2.09	0.52
1:F:504:ASP:O	1:F:506:GLY:N	2.42	0.52
1:B:909:ILE:O	1:B:913:LEU:HB2	2.09	0.52
1:D:637:ARG:N	1:D:638:PRO:CD	2.72	0.52
1:F:138:MET:HG2	1:F:291:ILE:HG12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:969:ARG:NH1	1:E:969:ARG:HG3	2.23	0.52
1:A:57:VAL:HG13	1:A:82:SER:HB3	1.91	0.52
1:A:57:VAL:O	1:A:62:VAL:HG23	2.10	0.52
1:D:560:PRO:O	1:D:921:SER:HB2	2.09	0.52
1:B:392:THR:HG22	1:B:393:LEU:HD12	1.91	0.52
1:C:584:ALA:O	1:C:588:GLN:HB2	2.10	0.52
1:C:713:GLN:HE21	1:C:714:ARG:NE	2.02	0.52
1:D:203:VAL:O	1:D:207:ILE:HG13	2.10	0.52
1:E:986:PRO:O	1:E:990:SER:HB3	2.10	0.52
1:E:72:ILE:CG1	1:E:75:LEU:HD12	2.40	0.52
1:D:864:GLU:HA	1:D:864:GLU:OE1	2.09	0.52
1:A:419:VAL:CG2	1:A:430:ALA:HB1	2.40	0.52
1:B:751:ILE:HG22	1:B:751:ILE:O	2.09	0.52
1:F:5:PHE:CD2	1:F:487:ILE:HG23	2.45	0.52
1:A:56:THR:HG23	1:C:213:GLN:CG	2.40	0.52
1:A:166:LEU:O	1:A:172:VAL:HG11	2.10	0.52
1:B:745:ILE:HD12	1:B:803:PHE:HZ	1.75	0.52
1:C:760:ASP:HB3	1:C:767:VAL:HG13	1.92	0.52
1:A:72:ILE:HG23	1:A:106:GLN:HB3	1.92	0.52
1:B:469:GLN:O	1:B:473:THR:CG2	2.57	0.52
1:A:808:TRP:O	1:D:705:LEU:HD22	2.10	0.52
1:D:252:LYS:HG3	1:D:253:VAL:H	1.74	0.52
1:D:198:LEU:HD11	1:D:260:VAL:HG11	1.92	0.52
1:A:762:ILE:HD11	1:B:59:ASP:HB3	1.91	0.52
1:B:578:THR:HB	1:B:579:PRO:HD2	1.92	0.52
1:F:862:SER:O	1:F:865:GLU:HB3	2.10	0.52
1:C:456:MET:HG3	1:C:471:SER:HG	1.74	0.52
1:C:544:ILE:O	1:C:548:ILE:HG12	2.10	0.52
1:F:453:PHE:CZ	1:F:932:THR:HB	2.41	0.52
1:F:864:GLU:O	1:F:867:LEU:HB3	2.10	0.52
1:B:845:GLU:O	1:B:848:LYS:HB2	2.10	0.52
1:C:638:PRO:O	1:C:642:ASN:HB2	2.10	0.52
1:F:709:ASN:HB3	1:F:712:LEU:HD13	1.92	0.52
1:C:452:VAL:CG1	1:C:934:ILE:HD12	2.40	0.52
1:A:718:ASN:HB2	1:A:827:LEU:HD22	1.92	0.52
1:E:555:MET:HG2	1:E:912:LEU:HB3	1.92	0.52
1:D:162:ILE:O	1:D:165:PRO:HD2	2.10	0.52
1:D:15:ILE:O	1:D:19:ILE:HG13	2.10	0.52
1:C:591:VAL:O	1:C:594:MET:HG3	2.10	0.51
1:F:563:PHE:O	1:F:923:ASP:HB2	2.09	0.51
1:D:563:PHE:O	1:D:564:LEU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:957:GLY:O	1:E:958:ILE:C	2.48	0.51
1:D:314:GLU:HG2	1:D:323:VAL:HG21	1.93	0.51
1:E:375:VAL:HG12	1:E:405:LEU:HD13	1.92	0.51
1:B:751:ILE:HG23	1:B:756:SER:HB3	1.91	0.51
1:C:569:GLN:O	1:C:571:VAL:HG13	2.10	0.51
1:B:705:LEU:HD21	1:B:849:GLN:OE1	2.10	0.51
1:D:601:LYS:HD3	1:D:601:LYS:N	2.24	0.51
1:C:354:VAL:O	1:C:357:LEU:HB3	2.11	0.51
1:F:730:ILE:HD13	1:F:730:ILE:N	2.19	0.51
1:D:375:VAL:HB	1:D:405:LEU:HD22	1.91	0.51
1:B:538:ARG:O	1:B:541:TYR:N	2.36	0.51
1:F:211:ASN:HA	1:F:240:LEU:HD13	1.91	0.51
1:C:36:PRO:HG2	1:C:38:ILE:HG22	1.91	0.51
1:B:568:ASP:O	1:B:634:TRP:NE1	2.39	0.51
1:D:139:VAL:HG22	1:D:327:TYR:CB	2.41	0.51
1:E:789:TYR:HD1	1:E:797:MET:O	1.92	0.51
1:D:283:GLY:HA2	1:D:595:ARG:CZ	2.40	0.51
1:B:261:ARG:HD3	1:B:261:ARG:H	1.75	0.51
1:F:705:LEU:HD22	1:F:849:GLN:HE22	1.74	0.51
1:A:644:VAL:HG13	1:A:645:PHE:N	2.25	0.51
1:C:641:GLU:CA	1:C:650:ARG:HH12	2.22	0.51
1:A:319:GLN:CD	1:A:319:GLN:N	2.64	0.51
1:D:542:LEU:O	1:D:546:VAL:HG23	2.11	0.51
1:C:1027:VAL:O	1:C:1030:LEU:HB2	2.10	0.51
1:C:682:LEU:HD23	1:C:682:LEU:H	1.75	0.51
2:B:2001:LMT:O2'	2:B:2001:LMT:C1	2.57	0.51
1:A:298:ASN:HD22	1:A:301:ASP:CG	2.13	0.51
1:E:678:THR:CG2	1:E:679:GLY:H	2.15	0.51
1:B:47:VAL:HG13	1:B:127:ILE:CA	2.39	0.51
1:A:1024:TYR:O	1:A:1028:SER:CB	2.58	0.51
1:D:240:LEU:HD22	1:D:245:GLN:HG2	1.93	0.51
1:E:351:VAL:O	1:E:355:MET:HB2	2.09	0.51
1:D:233:THR:HB	1:E:725:GLN:HE21	1.75	0.51
1:C:596:GLU:C	1:C:598:LEU:H	2.14	0.51
1:C:236:GLY:O	1:C:238:THR:HG23	2.10	0.51
1:F:816:GLU:O	1:F:817:ARG:HG3	2.11	0.51
1:E:747:SER:O	1:E:751:ILE:HG12	2.11	0.51
1:F:747:SER:O	1:F:751:ILE:HG13	2.09	0.51
1:D:519:MET:SD	1:D:523:THR:OG1	2.68	0.51
1:E:218:GLN:HG2	1:E:233:THR:HG22	1.93	0.51
1:C:725:GLN:CD	1:C:811:GLY:HA3	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:407:ASP:O	1:C:410:ILE:N	2.40	0.51
1:E:712:LEU:O	1:E:713:GLN:HB2	2.09	0.51
1:F:970:LEU:O	1:F:974:VAL:HG23	2.09	0.51
1:E:62:VAL:HG22	1:E:88:MET:CE	2.40	0.51
1:C:894:TRP:O	1:C:897:PRO:HG2	2.11	0.51
1:E:568:ASP:OD2	1:E:644:VAL:HG23	2.11	0.51
1:C:931:LEU:O	1:C:934:ILE:CG2	2.58	0.51
1:C:655:PHE:CD1	1:C:658:PHE:HB3	2.45	0.51
1:D:340:VAL:HG11	1:D:395:MET:HB3	1.92	0.51
1:B:23:GLY:O	1:B:27:ILE:HG23	2.11	0.51
1:F:155:SER:HA	1:F:287:SER:OG	2.10	0.51
1:C:632:LYS:O	1:C:633:PRO:O	2.28	0.51
1:B:628:PHE:CD2	2:B:2001:LMT:H111	2.45	0.51
1:F:157:TYR:CZ	1:F:317:MET:HG2	2.46	0.51
1:D:219:LEU:HD23	1:D:230:LEU:HD21	1.93	0.51
1:C:47:VAL:HG23	1:C:88:MET:HE2	1.92	0.51
1:D:159:VAL:HA	1:D:163:GLN:CB	2.39	0.51
1:D:168:ARG:HB2	1:E:75:LEU:HD13	1.93	0.51
1:C:281:PHE:O	1:C:282:ASN:HB2	2.10	0.51
1:A:908:VAL:O	1:A:912:LEU:HG	2.10	0.51
1:C:485:ALA:O	1:C:490:PRO:HD3	2.11	0.51
1:A:70:ASN:O	1:A:110:LYS:HE3	2.10	0.51
1:B:391:ASN:HD21	1:B:469:GLN:HE21	1.59	0.51
1:E:899:SER:HA	1:E:1023:PHE:HB3	1.92	0.51
1:A:379:THR:O	1:A:382:VAL:HG22	2.10	0.51
1:E:1009:MET:HA	1:E:1009:MET:HE2	1.91	0.51
1:F:730:ILE:HA	1:F:803:PHE:O	2.09	0.51
1:A:27:ILE:HG23	2:A:1101:LMT:C3	2.40	0.51
1:C:3:LYS:HA	1:C:6:ILE:HD12	1.92	0.51
1:A:324:VAL:HG22	1:A:325:TYR:H	1.76	0.51
1:A:70:ASN:HB2	1:C:167:SER:HB2	1.91	0.51
1:E:277:ILE:HG13	1:E:613:THR:O	2.11	0.51
1:B:578:THR:HB	1:B:579:PRO:CD	2.39	0.51
1:A:307:ARG:HG3	1:A:307:ARG:HH11	1.75	0.51
1:D:219:LEU:HD12	1:D:234:ILE:CG1	2.40	0.51
1:F:452:VAL:HG22	1:F:883:VAL:CG2	2.34	0.51
1:D:115:THR:HB	1:D:116:PRO:HD3	1.91	0.51
1:A:410:ILE:HA	1:A:413:VAL:CG1	2.39	0.51
1:E:215:SER:HA	1:F:51:GLY:HA3	1.93	0.51
1:F:502:LYS:HD2	1:F:503:GLY:N	2.25	0.51
1:C:26:SER:O	1:C:30:LEU:HD13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:ASN:O	1:B:250:LEU:N	2.44	0.51
1:F:804:ALA:O	1:F:805:THR:HB	2.11	0.51
1:F:361:ASN:HD21	1:F:498:LYS:HD2	1.76	0.51
1:C:3:LYS:HD3	1:C:432:ARG:HH12	1.76	0.51
1:B:49:TYR:CE2	1:B:60:THR:HG21	2.45	0.51
1:A:794:LYS:HG3	1:A:796:GLU:HG3	1.93	0.51
1:F:280:GLN:HB3	1:F:283:GLY:O	2.11	0.51
1:A:649:LYS:C	1:A:651:ALA:H	2.13	0.51
1:F:400:LEU:HD21	1:F:1001:ILE:HD11	1.91	0.51
1:B:781:ASN:HB3	1:B:782:PRO:HD2	1.93	0.51
1:F:876:TYR:O	1:F:880:LEU:HD22	2.11	0.51
1:F:408:ASP:O	1:F:412:VAL:HG23	2.11	0.51
1:A:576:VAL:HB	1:A:625:GLY:O	2.10	0.51
1:D:300:LEU:HD23	1:D:330:THR:HB	1.91	0.51
1:D:713:GLN:O	1:D:715:VAL:N	2.44	0.51
1:B:541:TYR:CA	1:B:544:ILE:HG22	2.39	0.51
1:F:971:ARG:HB3	1:F:972:PRO:CD	2.40	0.51
1:D:904:VAL:CB	1:D:905:PRO:HD3	2.40	0.51
1:E:843:VAL:O	1:E:847:VAL:HG23	2.11	0.51
1:E:360:GLN:HG2	1:E:513:PHE:CZ	2.46	0.51
1:E:918:ARG:NH1	1:E:988:ALA:O	2.41	0.51
1:E:162:ILE:O	1:E:165:PRO:HD2	2.12	0.51
1:B:159:VAL:HG13	1:B:177:VAL:HG21	1.92	0.51
2:E:2002:LMT:O2'	2:E:2002:LMT:H11	2.10	0.51
1:E:445:ILE:HG13	1:E:446:ALA:N	2.25	0.51
1:C:713:GLN:HG2	1:C:714:ARG:HG3	1.92	0.51
1:A:632:LYS:HD3	1:A:636:GLU:HB3	1.91	0.51
1:B:568:ASP:CG	1:B:644:VAL:HG23	2.31	0.51
1:B:438:ILE:O	1:B:440:GLY:N	2.44	0.51
1:F:856:TYR:CD2	1:F:856:TYR:C	2.82	0.51
1:F:983:GLY:O	1:F:986:PRO:HD2	2.11	0.51
1:E:622:GLN:O	1:E:624:SER:N	2.44	0.51
1:D:974:VAL:O	1:D:978:LEU:HB2	2.10	0.51
1:B:933:THR:HG21	1:B:1008:GLY:HA3	1.91	0.51
1:D:399:VAL:O	1:D:402:ILE:HG12	2.10	0.50
1:C:340:VAL:HA	1:C:343:THR:HG23	1.92	0.50
1:A:584:ALA:HB2	1:A:622:GLN:CG	2.41	0.50
1:A:929:GLY:O	1:A:1005:VAL:HG12	2.11	0.50
1:B:706:ALA:HA	1:B:846:ILE:HD11	1.93	0.50
1:F:240:LEU:HA	1:F:245:GLN:NE2	2.25	0.50
1:F:985:VAL:HB	1:F:986:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:468:ARG:O	1:A:469:GLN:C	2.49	0.50
1:A:133:VAL:CG1	1:A:135:ASN:OD1	2.58	0.50
1:F:412:VAL:HG13	1:F:435:MET:HE1	1.94	0.50
1:F:818:TYR:O	1:F:819:ASN:HB2	2.11	0.50
1:C:156:ASN:ND2	1:C:768:LYS:HE2	2.25	0.50
1:E:782:PRO:C	1:E:785:LEU:HG	2.31	0.50
1:D:405:LEU:HD12	1:D:406:VAL:N	2.25	0.50
1:B:370:ILE:O	1:B:374:VAL:HG23	2.11	0.50
1:F:578:THR:HA	1:F:661:ALA:HB1	1.93	0.50
1:A:847:VAL:O	1:A:847:VAL:HG22	2.11	0.50
1:E:353:LEU:O	1:E:356:TYR:N	2.33	0.50
1:D:685:GLN:CG	1:D:687:GLN:HE22	2.24	0.50
1:B:203:VAL:HG12	1:B:207:ILE:HD11	1.94	0.50
1:C:658:PHE:HD1	1:C:659:LYS:HG3	1.75	0.50
1:B:563:PHE:O	1:B:564:LEU:HD23	2.11	0.50
1:C:343:THR:O	1:C:344:LEU:C	2.49	0.50
1:C:57:VAL:O	1:C:61:VAL:HB	2.12	0.50
1:F:683:PHE:CZ	1:F:825:GLU:HB2	2.45	0.50
1:D:655:PHE:CZ	1:D:660:ASP:HB3	2.45	0.50
1:A:140:VAL:HB	1:A:289:ILE:CD1	2.41	0.50
1:F:219:LEU:O	1:F:231:ASN:HA	2.12	0.50
1:F:685:GLN:O	1:F:855:GLY:O	2.30	0.50
1:E:578:THR:HB	1:E:579:PRO:CD	2.40	0.50
1:D:219:LEU:O	1:D:221:GLY:N	2.41	0.50
1:D:417:GLU:HA	1:D:420:MET:CE	2.42	0.50
1:A:213:GLN:OE1	1:B:56:THR:HG22	2.11	0.50
1:E:541:TYR:CA	1:E:544:ILE:HG22	2.40	0.50
1:C:318:PRO:HG2	1:C:321:MET:HG2	1.94	0.50
1:B:573:PHE:HD2	1:B:666:PHE:HE1	1.58	0.50
1:A:164:ASP:O	1:A:165:PRO:C	2.50	0.50
1:C:567:GLU:HG3	1:C:568:ASP:H	1.76	0.50
1:B:531:VAL:O	1:B:535:LEU:HG	2.12	0.50
1:A:27:ILE:HD13	2:A:1101:LMT:H72	1.92	0.50
1:A:739:GLY:HA3	1:A:792:ASN:HB2	1.93	0.50
1:F:283:GLY:H	1:F:595:ARG:NH2	2.10	0.50
1:C:142:VAL:HG21	1:C:321:MET:CE	2.41	0.50
1:E:674:LEU:CG	1:E:861:LEU:HD11	2.42	0.50
1:A:847:VAL:HG23	1:A:850:LEU:HD12	1.92	0.50
1:A:831:ALA:HB3	1:A:834:LEU:HG	1.93	0.50
1:E:454:LEU:O	1:E:455:PRO:C	2.49	0.50
1:D:577:GLN:HA	1:D:623:SER:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:TYR:CE1	1:A:318:PRO:HD3	2.46	0.50
1:A:254:ASN:HB2	1:A:257:GLY:O	2.12	0.50
1:F:594:MET:O	1:F:598:LEU:HB2	2.10	0.50
1:A:875:LEU:CD2	1:A:931:LEU:HD11	2.32	0.50
1:C:391:ASN:ND2	1:C:391:ASN:N	2.60	0.50
1:D:754:GLY:O	1:D:755:SER:CB	2.60	0.50
1:C:280:GLN:HE21	1:C:588:GLN:HE22	1.60	0.50
1:D:219:LEU:HD22	1:D:232:ALA:HB3	1.93	0.50
1:C:47:VAL:HG22	1:C:127:ILE:HG23	1.92	0.50
1:C:896:ILE:H	1:C:896:ILE:CD1	2.24	0.50
1:B:847:VAL:HG11	1:B:856:TYR:CE2	2.47	0.50
1:D:293:LEU:HD13	1:D:302:THR:HG21	1.91	0.50
1:D:571:VAL:HG12	1:D:630:MET:CE	2.42	0.50
1:F:682:LEU:HB3	1:F:858:TRP:CE3	2.47	0.50
1:B:971:ARG:HB3	1:B:972:PRO:CD	2.42	0.50
1:A:742:LEU:H	1:A:742:LEU:CD1	2.24	0.50
1:B:732:ASP:HA	1:B:735:ALA:HB3	1.94	0.50
1:F:789:TYR:HB3	1:F:797:MET:HG2	1.92	0.50
1:D:193:LEU:HG	1:D:198:LEU:O	2.12	0.50
1:B:694:VAL:O	1:B:697:GLN:N	2.43	0.50
1:B:501:GLU:HG3	1:B:504:ASP:CB	2.42	0.50
1:C:175:PHE:HB2	1:C:289:ILE:HD11	1.94	0.50
1:C:131:LYS:HD3	1:C:295:THR:HG21	1.92	0.50
1:B:985:VAL:HB	1:B:986:PRO:HD3	1.94	0.50
1:B:298:ASN:HB3	1:B:301:ASP:HB2	1.93	0.50
1:E:657:SER:O	1:E:658:PHE:C	2.50	0.50
1:E:738:LEU:O	1:E:792:ASN:HB2	2.11	0.50
1:C:200:PRO:O	1:C:203:VAL:HB	2.12	0.50
1:B:223:PRO:HD3	1:C:275:TYR:CE2	2.47	0.50
1:F:453:PHE:CD2	1:F:474:ILE:HG21	2.46	0.50
1:C:486:LEU:HD23	2:C:2002:LMT:H12	1.94	0.50
1:E:541:TYR:O	1:E:544:ILE:HG22	2.12	0.50
1:F:265:VAL:O	1:F:266:ALA:HB2	2.12	0.50
1:E:576:VAL:HG22	1:E:663:VAL:HG13	1.94	0.50
1:D:99:ASP:CB	1:D:102:ILE:HD12	2.41	0.50
1:F:908:VAL:O	1:F:911:ALA:HB3	2.11	0.50
1:B:58:GLN:O	1:B:63:GLN:HG3	2.12	0.50
1:F:457:ALA:HB1	1:F:468:ARG:HG2	1.93	0.50
1:F:799:PRO:HB2	1:F:801:ASN:OD1	2.12	0.50
1:A:672:LEU:O	1:A:674:LEU:N	2.44	0.50
1:B:601:LYS:C	1:B:601:LYS:HD3	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:ASN:O	1:B:94:PHE:HB3	2.11	0.50
1:D:184:MET:HE1	1:D:270:LEU:CD2	2.41	0.50
1:D:641:GLU:CD	1:D:641:GLU:H	2.14	0.50
1:E:62:VAL:HG22	1:E:88:MET:HE3	1.93	0.50
1:A:597:TYR:O	1:A:601:LYS:N	2.41	0.50
1:C:630:MET:C	1:C:631:LEU:HD23	2.33	0.50
1:C:143:VAL:HG12	1:C:322:LYS:CG	2.42	0.50
1:D:124:ARG:NH2	1:D:757:TYR:CD2	2.80	0.50
1:D:102:ILE:HD13	1:F:101:ASP:OD2	2.12	0.50
1:E:11:PHE:HE1	1:E:15:ILE:HD11	1.77	0.50
1:E:171:GLY:HA3	1:E:302:THR:HG22	1.93	0.50
1:A:742:LEU:H	1:A:742:LEU:HD12	1.76	0.50
1:E:740:VAL:HG22	1:E:745:ILE:HD11	1.92	0.50
1:F:428:ARG:O	1:F:432:ARG:HG3	2.12	0.50
1:E:340:VAL:O	1:E:344:LEU:HG	2.12	0.50
1:D:725:GLN:HA	1:F:232:ALA:HB1	1.93	0.50
1:E:142:VAL:HG21	1:E:158:ILE:CD1	2.23	0.50
1:B:247:GLU:HG2	1:B:268:VAL:CG2	2.39	0.50
1:A:104:GLN:OE1	1:A:131:LYS:NZ	2.45	0.50
1:A:601:LYS:O	1:A:602:GLU:HG2	2.11	0.50
1:C:896:ILE:N	1:C:896:ILE:CD1	2.75	0.50
1:A:328:ASP:C	1:A:328:ASP:OD1	2.50	0.50
1:D:195:SER:C	1:D:197:GLN:H	2.15	0.50
1:D:985:VAL:HG13	1:D:989:ILE:HD12	1.94	0.50
1:A:754:GLY:HA2	1:C:217:GLY:CA	2.41	0.50
1:D:597:TYR:HD2	1:D:601:LYS:HE3	1.77	0.50
1:B:574:ALA:HA	1:B:664:PHE:O	2.12	0.50
1:F:314:GLU:N	1:F:315:PRO:HD2	2.27	0.49
1:A:344:LEU:O	1:A:348:ILE:HG22	2.12	0.49
1:B:222:LEU:HA	1:B:223:PRO:C	2.33	0.49
1:F:779:ARG:HD2	1:F:779:ARG:O	2.11	0.49
1:B:990:SER:O	1:B:999:HIS:NE2	2.40	0.49
1:F:293:LEU:HD21	1:F:297:ALA:O	2.12	0.49
1:A:684:LEU:HD12	1:A:684:LEU:N	2.27	0.49
1:A:579:PRO:HG2	1:A:582:SER:HG	1.77	0.49
1:B:463:THR:HG22	1:B:563:PHE:CE1	2.45	0.49
1:C:960:GLU:O	1:C:963:ILE:HB	2.12	0.49
1:E:577:GLN:HA	1:E:624:SER:OG	2.11	0.49
1:F:79:SER:HB3	1:F:818:TYR:HD1	1.77	0.49
1:F:421:ALA:O	1:F:422:GLU:C	2.50	0.49
1:A:974:VAL:HG12	1:A:975:MET:N	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:962:ALA:O	1:C:965:ALA:HB3	2.12	0.49
1:E:126:GLY:HA3	1:F:116:PRO:HB3	1.94	0.49
1:A:527:TYR:CE1	1:A:966:CYS:HB3	2.47	0.49
1:F:900:VAL:HG23	1:F:901:MET:H	1.77	0.49
1:D:328:ASP:OD1	1:D:329:THR:N	2.45	0.49
1:C:188:LEU:O	1:C:775:ARG:HG3	2.12	0.49
1:D:183:SER:HB2	1:D:769:ARG:O	2.12	0.49
1:C:310:ILE:HD12	1:C:310:ILE:C	2.33	0.49
1:D:685:GLN:CB	1:D:687:GLN:HE22	2.24	0.49
1:B:681:ASP:OD2	1:B:825:GLU:OE2	2.30	0.49
1:E:830:PRO:HB2	1:E:834:LEU:HB2	1.94	0.49
1:A:72:ILE:HD12	1:A:106:GLN:HB3	1.93	0.49
1:F:5:PHE:O	1:F:491:ALA:HB2	2.12	0.49
1:D:459:PHE:O	1:D:464:GLY:HA3	2.12	0.49
1:A:6:ILE:CD1	1:A:431:ALA:HB1	2.42	0.49
1:F:454:LEU:HB2	1:F:455:PRO:HD3	1.93	0.49
1:C:430:ALA:O	1:C:434:SER:HB2	2.13	0.49
1:A:989:ILE:O	1:A:989:ILE:HG23	2.11	0.49
1:A:115:THR:O	1:A:118:LEU:HB2	2.13	0.49
1:A:53:SER:O	1:A:56:THR:N	2.46	0.49
1:E:188:LEU:HD12	1:E:266:ALA:HB2	1.93	0.49
1:F:58:GLN:HA	1:F:62:VAL:HB	1.93	0.49
1:A:605:SER:OG	1:A:647:LEU:HD12	2.12	0.49
1:B:537:HIS:O	1:B:541:TYR:HD1	1.95	0.49
1:E:674:LEU:HG	1:E:861:LEU:HD11	1.95	0.49
1:F:727:LYS:O	1:F:729:GLU:HG2	2.13	0.49
1:F:749:VAL:HA	1:F:753:TRP:CZ3	2.48	0.49
1:B:682:LEU:N	1:B:682:LEU:HD23	2.26	0.49
1:B:872:ALA:HB3	1:B:873:PRO:HD3	1.94	0.49
1:A:700:ASN:HA	1:A:703:LEU:HB2	1.94	0.49
1:B:430:ALA:O	1:B:433:LYS:HB3	2.12	0.49
1:F:720:MET:SD	1:F:720:MET:N	2.85	0.49
1:E:716:ARG:O	1:E:827:LEU:HB2	2.13	0.49
1:D:971:ARG:N	1:D:972:PRO:HD2	2.27	0.49
1:C:457:ALA:O	1:C:468:ARG:HD3	2.13	0.49
1:D:675:GLY:C	1:D:677:ALA:H	2.16	0.49
1:D:187:TRP:CH2	1:F:223:PRO:HG2	2.47	0.49
1:B:541:TYR:O	1:B:544:ILE:CG2	2.61	0.49
1:F:410:ILE:HD13	1:F:975:MET:CE	2.43	0.49
1:D:211:ASN:O	1:D:239:ARG:HG2	2.12	0.49
1:F:752:ALA:HB3	1:F:753:TRP:CE3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:504:ASP:O	1:F:506:GLY:O	2.30	0.49
1:D:731:ASP:HB3	1:D:734:LYS:HB2	1.93	0.49
1:A:6:ILE:HD13	1:A:431:ALA:HB1	1.93	0.49
1:E:933:THR:HG21	1:E:1008:GLY:HA3	1.93	0.49
1:F:185:ARG:HA	1:F:185:ARG:HH11	1.76	0.49
1:C:244:GLU:O	1:C:247:GLU:HB2	2.12	0.49
1:A:641:GLU:OE1	1:A:641:GLU:HA	2.12	0.49
1:E:227:GLY:O	1:E:229:GLN:N	2.45	0.49
1:B:355:MET:O	1:B:359:LEU:HB2	2.12	0.49
1:E:139:VAL:CG2	1:E:326:PRO:HG2	2.43	0.49
1:A:890:LEU:HD23	1:A:890:LEU:O	2.12	0.49
1:F:660:ASP:O	1:F:661:ALA:HB2	2.13	0.49
1:A:572:LEU:CD2	1:A:647:LEU:HD22	2.43	0.49
1:D:555:MET:CB	1:D:912:LEU:HD13	2.42	0.49
1:F:722:ASP:HA	1:F:813:PRO:CD	2.43	0.49
1:B:120:GLN:O	1:B:124:ARG:HG3	2.12	0.49
1:A:329:THR:O	1:A:332:VAL:HG12	2.12	0.49
1:E:206:ALA:HA	1:F:742:LEU:HD23	1.95	0.49
1:C:899:SER:O	1:C:903:VAL:HG23	2.12	0.49
1:C:360:GLN:HB3	1:C:513:PHE:CE1	2.47	0.49
2:E:2001:LMT:H122	2:E:2002:LMT:C12	2.40	0.49
1:D:646:GLU:CG	1:D:650:ARG:HH12	2.22	0.49
1:A:492:LEU:HD22	1:A:496:MET:HE3	1.93	0.49
1:E:579:PRO:O	1:E:581:GLY:N	2.45	0.49
1:E:738:LEU:HD13	1:E:798:VAL:CG1	2.36	0.49
1:E:783:ASP:C	1:E:785:LEU:N	2.65	0.49
1:A:416:VAL:O	1:A:420:MET:HB2	2.12	0.49
1:B:631:LEU:HD21	1:B:647:LEU:CD2	2.42	0.49
1:A:234:ILE:HG23	1:B:728:LEU:HD23	1.94	0.49
1:F:138:MET:HG2	1:F:291:ILE:CG1	2.42	0.49
1:F:38:ILE:C	1:F:38:ILE:HD13	2.33	0.49
1:E:143:VAL:CG2	1:E:284:SER:HB2	2.43	0.49
1:F:468:ARG:O	1:F:472:ILE:HG22	2.13	0.49
1:D:989:ILE:CG2	1:D:989:ILE:O	2.61	0.49
1:F:465:VAL:O	1:F:469:GLN:HG2	2.13	0.49
1:A:254:ASN:C	1:A:256:ASP:H	2.15	0.49
1:B:15:ILE:O	1:B:19:ILE:HG12	2.13	0.49
1:E:135:ASN:N	1:E:135:ASN:OD1	2.46	0.49
1:B:556:PHE:CE1	1:B:912:LEU:HD21	2.46	0.49
1:C:393:LEU:HD13	1:C:466:ILE:HB	1.94	0.49
1:B:162:ILE:HD13	1:B:313:LEU:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:VAL:O	1:A:65:ILE:HG12	2.13	0.49
1:B:527:TYR:CZ	1:B:966:CYS:HB3	2.45	0.49
1:A:242:THR:H	1:A:245:GLN:NE2	2.10	0.49
1:F:714:ARG:O	1:F:716:ARG:HD3	2.12	0.49
1:C:686:ASP:OD1	1:C:695:LEU:HD11	2.12	0.49
1:E:578:THR:CG2	1:E:590:VAL:HG21	2.41	0.49
1:E:484:VAL:CG1	1:E:488:LEU:HD23	2.42	0.49
1:F:456:MET:HE2	1:F:467:TYR:HB3	1.94	0.49
1:D:142:VAL:HG13	1:D:158:ILE:HD11	1.95	0.49
1:C:142:VAL:CG1	1:C:154:LEU:HB3	2.41	0.49
1:C:25:LEU:HB3	2:C:2001:LMT:H3'	1.95	0.49
1:D:762:ILE:HD12	1:D:762:ILE:N	2.28	0.49
1:D:366:LEU:O	1:D:370:ILE:HG13	2.12	0.49
1:E:151:LYS:HG3	1:E:286:ALA:O	2.13	0.49
1:A:108:GLN:HA	1:A:111:LEU:HB3	1.93	0.49
1:E:713:GLN:O	1:E:715:VAL:N	2.45	0.49
1:A:984:VAL:HG11	1:A:1005:VAL:HG21	1.91	0.49
1:B:223:PRO:HD2	1:C:187:TRP:CH2	2.48	0.49
1:C:2:SER:H	2:C:2002:LMT:H6D	1.78	0.49
1:F:340:VAL:HA	1:F:343:THR:CG2	2.40	0.49
1:B:189:ASP:O	1:B:193:LEU:HB2	2.13	0.49
1:A:620:ARG:O	1:A:624:SER:OG	2.24	0.49
1:E:72:ILE:HG12	1:E:75:LEU:HD12	1.95	0.49
1:D:958:ILE:HG12	1:D:959:VAL:N	2.28	0.49
1:A:872:ALA:H	1:A:873:PRO:HD2	1.77	0.49
1:E:740:VAL:HG23	1:E:791:ARG:O	2.12	0.49
1:F:24:GLY:O	1:F:26:SER:N	2.45	0.49
1:C:527:TYR:CZ	1:C:1017:ILE:HB	2.48	0.49
1:C:527:TYR:O	1:C:531:VAL:HG23	2.13	0.49
1:B:791:ARG:HG3	1:B:795:GLY:HA2	1.95	0.49
1:A:33:ASN:C	1:A:33:ASN:HD22	2.15	0.49
1:B:465:VAL:HG22	1:B:468:ARG:HH21	1.78	0.49
1:B:313:LEU:O	1:B:317:MET:HG3	2.13	0.49
1:E:910:GLY:CA	1:E:1011:THR:HG21	2.43	0.49
1:D:754:GLY:HA2	1:F:217:GLY:HA2	1.93	0.49
1:F:563:PHE:CE2	1:F:564:LEU:CD2	2.96	0.49
1:C:1009:MET:CE	1:C:1012:ALA:HB3	2.43	0.49
1:F:571:VAL:O	1:F:644:VAL:HG11	2.12	0.49
1:E:727:LYS:HD2	1:E:809:GLU:OE2	2.13	0.49
1:F:922:ASN:OD1	1:F:926:PHE:CD2	2.66	0.49
1:D:7:ASP:OD2	1:D:432:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1:MET:O	1:B:5:PHE:HD2	1.96	0.49
1:E:169:THR:HB	1:E:172:VAL:CG2	2.42	0.49
1:F:425:LEU:HB3	1:F:429:GLU:HB3	1.95	0.49
1:A:125:GLN:HG3	1:A:125:GLN:O	2.13	0.49
1:C:488:LEU:HD13	1:C:492:LEU:HD12	1.95	0.49
1:D:1020:VAL:N	1:D:1021:PRO:HD2	2.28	0.49
1:D:754:GLY:O	1:D:755:SER:HB3	2.13	0.49
1:D:181:GLN:OE1	1:D:768:LYS:HE3	2.13	0.49
1:B:887:LEU:HD21	1:B:942:ILE:HD11	1.95	0.49
1:E:650:ARG:NH1	1:E:650:ARG:CB	2.75	0.49
1:D:534:ILE:CD1	1:D:1018:PHE:HB3	2.43	0.49
1:F:13:TRP:O	1:F:17:LEU:HG	2.13	0.49
1:B:706:ALA:O	1:B:709:ASN:HB3	2.12	0.49
1:A:422:GLU:HG3	1:A:423:GLU:HG3	1.94	0.49
1:B:722:ASP:OD1	1:B:812:SER:HA	2.13	0.49
1:E:184:MET:HB2	1:E:761:PHE:CE1	2.47	0.49
1:D:709:ASN:ND2	1:D:846:ILE:HD11	2.28	0.49
1:B:228:GLN:C	1:B:230:LEU:H	2.17	0.49
1:C:462:SER:OG	1:C:864:GLU:HG3	2.13	0.49
1:B:1027:VAL:HA	1:B:1030:LEU:HD12	1.95	0.49
1:A:383:LEU:HD11	1:A:398:MET:HE2	1.95	0.49
1:E:412:VAL:O	1:E:416:VAL:HG23	2.12	0.49
2:E:2001:LMT:H122	2:E:2002:LMT:C11	2.42	0.48
1:C:845:GLU:C	1:C:847:VAL:H	2.16	0.48
1:E:897:PRO:O	1:E:900:VAL:HG12	2.13	0.48
1:C:376:LEU:CA	1:C:379:THR:HG22	2.43	0.48
1:D:571:VAL:HG12	1:D:630:MET:HE1	1.95	0.48
1:D:598:LEU:HD21	1:D:629:ILE:CD1	2.43	0.48
1:D:780:MET:CE	1:F:224:ALA:HB1	2.41	0.48
1:E:633:PRO:HB2	1:E:636:GLU:HB2	1.95	0.48
1:F:298:ASN:HD22	1:F:301:ASP:H	1.61	0.48
1:F:469:GLN:O	1:F:473:THR:HG22	2.12	0.48
1:F:817:ARG:HG2	1:F:817:ARG:HH11	1.78	0.48
1:A:974:VAL:O	1:A:975:MET:C	2.51	0.48
1:B:872:ALA:O	1:B:873:PRO:C	2.50	0.48
1:E:369:THR:O	1:E:373:PRO:HG2	2.12	0.48
1:E:592:ASP:O	1:E:595:ARG:HB3	2.12	0.48
1:F:1024:TYR:O	1:F:1027:VAL:HG22	2.12	0.48
1:D:759:ASN:OD1	1:D:770:VAL:HG11	2.12	0.48
1:A:789:TYR:CZ	1:A:799:PRO:HB3	2.48	0.48
1:A:474:ILE:O	1:A:478:MET:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:58:GLN:OE1	1:D:815:LEU:HB3	2.13	0.48
1:B:754:GLY:O	1:B:755:SER:HB3	2.12	0.48
1:F:396:PHE:CE2	1:F:1001:ILE:HG21	2.48	0.48
1:E:314:GLU:HA	1:E:317:MET:CE	2.43	0.48
1:B:458:PHE:O	2:B:2003:LMT:H6E	2.12	0.48
1:F:817:ARG:HG2	1:F:817:ARG:NH1	2.28	0.48
1:B:933:THR:HG23	1:B:1009:MET:CE	2.43	0.48
1:F:991:THR:HA	1:F:995:SER:OG	2.14	0.48
1:E:509:LYS:HG3	1:E:517:ASN:ND2	2.28	0.48
1:C:818:TYR:O	1:C:819:ASN:HB2	2.13	0.48
1:B:298:ASN:ND2	1:B:300:LEU:HB2	2.28	0.48
1:E:684:LEU:O	1:E:823:ALA:HA	2.14	0.48
1:F:202:ASP:OD1	1:F:203:VAL:HG23	2.12	0.48
1:D:534:ILE:HG23	1:D:541:TYR:CG	2.49	0.48
1:E:896:ILE:N	1:E:897:PRO:HD2	2.28	0.48
1:C:54:ALA:O	1:C:82:SER:HB3	2.13	0.48
1:B:414:GLU:CD	1:B:972:PRO:HG3	2.33	0.48
1:B:598:LEU:HD21	1:B:655:PHE:HZ	1.79	0.48
1:F:457:ALA:O	1:F:468:ARG:HD3	2.12	0.48
1:A:878:LEU:HD21	1:C:25:LEU:CD1	2.43	0.48
1:B:560:PRO:O	1:B:921:SER:HB2	2.13	0.48
1:C:1023:PHE:O	1:C:1027:VAL:HG13	2.13	0.48
1:E:891:TYR:CA	1:E:949:LYS:HE2	2.41	0.48
1:D:230:LEU:HD23	1:E:781:ASN:OD1	2.14	0.48
1:B:745:ILE:CD1	1:B:790:VAL:HG21	2.43	0.48
1:C:746:ASN:O	1:C:749:VAL:HG22	2.12	0.48
1:B:69:MET:C	1:B:70:ASN:HD22	2.17	0.48
1:D:140:VAL:HB	1:D:289:ILE:CG1	2.42	0.48
1:F:382:VAL:HG12	1:F:472:ILE:HD11	1.95	0.48
1:E:350:LEU:HD22	1:E:982:LEU:HB3	1.94	0.48
1:D:683:PHE:HD2	1:D:823:ALA:HB1	1.78	0.48
1:D:549:VAL:O	1:D:553:ILE:HG13	2.13	0.48
1:F:279:ALA:HB2	1:F:612:VAL:HG23	1.95	0.48
1:C:153:ASP:HA	1:C:182:TYR:OH	2.13	0.48
1:D:943:LEU:HB3	1:D:969:ARG:NE	2.29	0.48
1:F:364:ALA:O	1:F:368:PRO:HD3	2.13	0.48
1:A:361:ASN:HB3	1:A:364:ALA:CB	2.44	0.48
1:D:416:VAL:O	1:D:419:VAL:HG22	2.14	0.48
1:F:643:SER:O	1:F:646:GLU:N	2.44	0.48
1:A:417:GLU:HA	1:A:420:MET:HE1	1.96	0.48
1:E:631:LEU:HD11	1:E:644:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:723:GLU:OE1	1:F:813:PRO:HB3	2.14	0.48
1:D:671:VAL:CG1	1:D:674:LEU:HD21	2.44	0.48
1:B:699:ARG:HD2	1:B:717:PRO:HB3	1.96	0.48
1:B:261:ARG:HD3	1:B:261:ARG:N	2.27	0.48
1:B:488:LEU:O	1:B:491:ALA:N	2.46	0.48
1:D:559:ILE:HD11	1:D:920:LEU:O	2.13	0.48
1:D:946:GLU:O	1:D:949:LYS:N	2.47	0.48
1:F:371:ALA:HA	1:F:374:VAL:HG13	1.96	0.48
1:C:146:ASP:OD1	1:C:148:SER:CB	2.62	0.48
1:C:902:LEU:O	1:C:905:PRO:HD2	2.13	0.48
2:F:2001:LMT:H6E	2:F:2001:LMT:H1B	1.95	0.48
1:A:261:ARG:NH2	1:B:733:GLU:OE2	2.45	0.48
1:C:159:VAL:HG12	1:C:159:VAL:O	2.13	0.48
1:A:584:ALA:CB	1:A:622:GLN:HB3	2.43	0.48
1:B:60:THR:HG23	1:B:119:PRO:CG	2.41	0.48
1:C:936:LEU:HB3	1:C:1009:MET:CE	2.43	0.48
1:F:303:ALA:HB2	1:F:330:THR:OG1	2.14	0.48
1:A:438:ILE:CG1	1:A:439:GLN:N	2.77	0.48
1:D:125:GLN:NE2	1:D:769:ARG:NH1	2.61	0.48
1:A:185:ARG:NE	1:A:771:TYR:HB2	2.28	0.48
1:F:573:PHE:CE2	1:F:668:PRO:HD3	2.48	0.48
1:D:843:VAL:C	1:D:845:GLU:N	2.66	0.48
1:D:10:ILE:O	1:D:14:VAL:HG23	2.13	0.48
1:B:539:ALA:O	1:B:543:LEU:HB2	2.14	0.48
1:F:616:ASN:ND2	1:F:616:ASN:C	2.67	0.48
1:C:641:GLU:O	1:C:650:ARG:NH2	2.39	0.48
1:F:718:ASN:HB3	1:F:816:GLU:OE1	2.13	0.48
1:F:686:ASP:O	1:F:686:ASP:OD2	2.30	0.48
1:A:761:PHE:HD2	1:A:761:PHE:H	1.60	0.48
1:E:463:THR:HG22	1:E:563:PHE:HE1	1.78	0.48
1:E:619:GLY:HA3	1:E:720:MET:SD	2.53	0.48
1:A:512:PHE:CD1	1:A:512:PHE:N	2.82	0.48
1:D:35:TYR:CE1	1:D:392:THR:HG21	2.49	0.48
1:F:904:VAL:HB	1:F:905:PRO:HD3	1.95	0.48
1:C:166:LEU:O	1:C:172:VAL:HG11	2.14	0.48
1:F:96:GLN:NE2	1:F:462:SER:HB2	2.28	0.48
1:B:571:VAL:HG12	1:B:572:LEU:N	2.29	0.48
1:E:261:ARG:HE	1:E:263:LYS:HE2	1.79	0.48
1:A:616:ASN:ND2	1:A:626:MET:HB3	2.28	0.48
1:A:940:ASN:ND2	1:A:973:ILE:HG23	2.28	0.48
1:D:488:LEU:HD22	1:D:492:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:889:ALA:HB2	1:C:14:VAL:HG21	1.95	0.48
1:D:498:LYS:H	1:D:499:PRO:CD	2.26	0.48
1:D:916:SER:C	1:D:918:ARG:H	2.17	0.48
1:C:76:ARG:HG2	1:C:77:TYR:CD2	2.49	0.48
1:F:332:VAL:HG11	1:F:569:GLN:HB3	1.95	0.48
1:A:775:ARG:HE	1:A:777:ASP:CG	2.17	0.48
1:F:792:ASN:ND2	1:F:796:GLU:HB2	2.29	0.48
1:C:409:ALA:O	1:C:413:VAL:HG23	2.14	0.48
1:A:27:ILE:CD1	2:A:1101:LMT:H72	2.42	0.48
1:D:62:VAL:HG21	1:D:82:SER:OG	2.14	0.48
1:F:328:ASP:H	1:F:630:MET:HE1	1.77	0.48
1:C:740:VAL:HG11	1:C:790:VAL:HG11	1.96	0.48
1:E:460:GLY:N	1:E:871:GLN:HE22	2.11	0.48
1:E:414:GLU:CG	1:E:972:PRO:HG3	2.43	0.48
1:C:632:LYS:HB3	1:C:636:GLU:OE1	2.13	0.48
1:F:421:ALA:O	1:F:423:GLU:N	2.47	0.48
1:F:8:ARG:HH11	1:F:8:ARG:HG2	1.78	0.48
1:D:681:ASP:OD1	1:D:825:GLU:OE2	2.31	0.48
1:D:649:LYS:O	1:D:652:GLN:HB3	2.13	0.48
1:A:443:VAL:O	1:A:447:MET:HG3	2.14	0.48
1:E:115:THR:HB	1:E:116:PRO:HD3	1.96	0.48
1:D:684:LEU:HD12	1:D:684:LEU:H	1.70	0.48
2:E:2001:LMT:C12	2:E:2002:LMT:C12	2.92	0.48
1:A:54:ALA:CB	1:A:815:LEU:HD23	2.44	0.48
1:D:953:GLU:HG3	1:D:954:GLN:N	2.20	0.48
1:A:372:VAL:HA	1:A:405:LEU:CD2	2.43	0.48
1:B:984:VAL:HG11	1:B:1005:VAL:CG2	2.44	0.48
1:E:602:GLU:OE2	1:E:650:ARG:NH1	2.45	0.48
1:F:643:SER:O	1:F:644:VAL:C	2.51	0.48
1:F:643:SER:O	1:F:645:PHE:N	2.47	0.48
1:C:142:VAL:HG13	1:C:154:LEU:HB3	1.96	0.48
1:D:273:GLN:HG3	1:D:771:TYR:HE2	1.79	0.48
1:F:576:VAL:HG13	1:F:663:VAL:HG22	1.95	0.48
1:A:142:VAL:CG2	1:A:154:LEU:HB3	2.43	0.48
1:C:943:LEU:HA	1:C:943:LEU:HD12	1.64	0.48
1:A:62:VAL:HG12	1:A:62:VAL:O	2.13	0.48
1:F:434:SER:O	1:F:438:ILE:HG12	2.14	0.48
1:A:918:ARG:CZ	1:A:1003:THR:HG21	2.44	0.48
1:F:654:HIS:ND1	1:F:654:HIS:C	2.66	0.48
1:F:507:GLU:HB3	1:F:517:ASN:ND2	2.29	0.48
1:C:532:ALA:O	1:C:536:LYS:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:545:TYR:CD1	1:C:1023:PHE:HZ	2.32	0.48
1:E:713:GLN:HE21	1:E:714:ARG:HE	1.62	0.48
1:D:970:LEU:O	1:D:971:ARG:C	2.52	0.48
1:F:635:GLU:O	1:F:637:ARG:N	2.46	0.48
1:E:544:ILE:HD12	1:E:1019:TRP:CZ2	2.49	0.48
1:A:437:GLN:C	1:A:438:ILE:HG23	2.34	0.48
1:E:53:SER:HG	1:E:56:THR:CB	2.26	0.48
1:B:573:PHE:HD2	1:B:666:PHE:CE1	2.32	0.48
1:A:222:LEU:CD2	1:B:622:GLN:OE1	2.61	0.48
1:B:278:ASN:O	1:B:612:VAL:HA	2.14	0.48
1:A:910:GLY:HA3	1:A:1011:THR:HG21	1.96	0.48
1:C:599:LEU:HD23	1:C:599:LEU:O	2.14	0.48
1:F:733:GLU:HG3	1:F:734:LYS:H	1.77	0.48
1:B:597:TYR:HD2	1:B:598:LEU:HD22	1.79	0.48
1:C:690:VAL:CG2	1:C:694:VAL:HG21	2.44	0.48
1:F:391:ASN:C	1:F:391:ASN:OD1	2.52	0.48
1:A:193:LEU:HD21	1:A:199:THR:HA	1.95	0.48
1:C:554:TRP:CZ2	1:C:558:ARG:HD2	2.49	0.48
1:E:84:SER:C	1:E:86:GLY:H	2.18	0.48
1:A:211:ASN:O	1:A:211:ASN:CG	2.52	0.48
1:C:563:PHE:C	1:C:564:LEU:HD22	2.34	0.47
1:B:311:ALA:HA	1:B:314:GLU:OE1	2.13	0.47
1:D:568:ASP:HB3	1:D:634:TRP:HZ3	1.74	0.47
1:D:575:GLN:HE21	1:D:616:ASN:ND2	2.12	0.47
1:E:694:VAL:O	1:E:697:GLN:HB2	2.14	0.47
1:F:500:ILE:HG22	1:F:500:ILE:O	2.14	0.47
1:F:291:ILE:CD1	1:F:306:ILE:HG13	2.44	0.47
1:C:658:PHE:CD1	1:C:659:LYS:HG3	2.49	0.47
1:C:42:ALA:CB	1:C:132:ALA:HB3	2.44	0.47
1:C:1020:VAL:HB	1:C:1021:PRO:HD3	1.96	0.47
1:B:559:ILE:HD13	1:B:560:PRO:N	2.29	0.47
1:C:361:ASN:O	1:C:362:PHE:C	2.52	0.47
1:D:586:ARG:HH11	1:D:586:ARG:HG3	1.77	0.47
1:E:803:PHE:C	1:E:805:THR:H	2.16	0.47
1:F:144:SER:HA	1:F:320:GLY:O	2.13	0.47
1:E:462:SER:HB2	1:E:864:GLU:OE1	2.14	0.47
1:D:33:ASN:ND2	1:D:35:TYR:O	2.47	0.47
1:A:240:LEU:HB2	1:A:246:PHE:CZ	2.49	0.47
1:A:246:PHE:O	1:A:262:LEU:HD23	2.14	0.47
1:C:164:ASP:HB2	1:C:165:PRO:HD3	1.96	0.47
1:F:14:VAL:O	1:F:18:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:957:GLY:O	1:E:959:VAL:N	2.48	0.47
1:E:761:PHE:CE2	1:E:763:ASP:HB2	2.49	0.47
1:E:197:GLN:HA	1:E:797:MET:HG3	1.96	0.47
1:C:500:ILE:O	1:C:501:GLU:O	2.33	0.47
1:A:39:ALA:HB3	1:A:673:GLU:CG	2.43	0.47
1:D:324:VAL:HG22	1:D:325:TYR:H	1.79	0.47
1:A:767:VAL:HG21	1:B:59:ASP:O	2.14	0.47
1:A:6:ILE:HD13	1:A:431:ALA:CB	2.44	0.47
1:F:183:SER:HB3	1:F:185:ARG:HD3	1.96	0.47
1:B:412:VAL:O	1:B:416:VAL:HG23	2.15	0.47
1:B:527:TYR:CZ	1:B:531:VAL:HG21	2.49	0.47
1:D:405:LEU:O	1:D:405:LEU:HD12	2.14	0.47
1:C:303:ALA:O	1:C:307:ARG:HG3	2.14	0.47
1:C:801:ASN:C	1:C:803:PHE:H	2.17	0.47
1:B:14:VAL:CG1	1:C:885:LEU:HB3	2.44	0.47
1:A:1010:VAL:HG23	1:A:1011:THR:N	2.29	0.47
1:A:718:ASN:HB3	1:A:825:GLU:HB3	1.95	0.47
1:F:721:SER:O	1:F:813:PRO:HD2	2.15	0.47
1:D:12:ALA:O	1:D:13:TRP:C	2.51	0.47
1:E:144:SER:O	1:E:284:SER:HB3	2.14	0.47
1:B:250:LEU:HD21	1:B:261:ARG:HG3	1.96	0.47
1:F:840:MET:SD	1:F:865:GLU:HG2	2.55	0.47
1:D:519:MET:C	1:D:519:MET:SD	2.93	0.47
1:E:748:THR:O	1:E:752:ALA:HB3	2.14	0.47
1:B:611:THR:HG22	1:B:627:ALA:HB2	1.95	0.47
1:F:888:ALA:O	1:F:892:GLU:N	2.47	0.47
1:A:235:ILE:HG13	1:A:235:ILE:O	2.13	0.47
1:C:393:LEU:CD1	1:C:466:ILE:HB	2.44	0.47
1:C:537:HIS:O	1:C:541:TYR:HD2	1.98	0.47
1:E:445:ILE:HG22	1:E:942:ILE:HD12	1.95	0.47
1:D:472:ILE:O	1:D:476:SER:CB	2.62	0.47
1:D:753:TRP:C	1:F:217:GLY:HA3	2.34	0.47
1:B:151:LYS:NZ	2:B:2001:LMT:H21	2.30	0.47
1:F:692:HIS:NE2	1:F:815:LEU:HD22	2.30	0.47
1:D:616:ASN:O	1:D:618:ALA:N	2.47	0.47
1:F:156:ASN:HD21	1:F:768:LYS:HE2	1.78	0.47
1:F:463:THR:HG23	1:F:924:VAL:CG1	2.44	0.47
1:E:597:TYR:CD1	1:E:597:TYR:C	2.86	0.47
1:A:452:VAL:HG22	1:A:883:VAL:HG21	1.97	0.47
1:B:571:VAL:O	1:B:644:VAL:HG11	2.13	0.47
1:E:535:LEU:HD22	1:E:1025:VAL:CG2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:326:PRO:HB2	1:C:610:PHE:HB2	1.96	0.47
1:A:965:ALA:O	1:A:969:ARG:HG2	2.14	0.47
1:E:15:ILE:O	1:E:19:ILE:HD13	2.14	0.47
1:E:558:ARG:HB3	1:E:558:ARG:HH11	1.77	0.47
1:B:386:PHE:HZ	2:B:2003:LMT:H81	1.78	0.47
1:C:959:VAL:O	1:C:963:ILE:HG12	2.14	0.47
1:A:362:PHE:CD1	1:A:362:PHE:N	2.81	0.47
1:F:690:VAL:O	1:F:690:VAL:HG13	2.15	0.47
1:C:914:ALA:O	1:C:917:MET:N	2.47	0.47
1:A:587:THR:O	1:A:589:VAL:N	2.48	0.47
1:C:359:LEU:HD21	1:C:413:VAL:HG12	1.96	0.47
1:F:83:ASN:N	1:F:83:ASN:ND2	2.62	0.47
1:E:47:VAL:HG22	1:E:127:ILE:CG2	2.39	0.47
1:F:461:GLY:HA2	1:F:867:LEU:HD11	1.97	0.47
1:D:62:VAL:HA	1:D:90:ILE:HD11	1.96	0.47
1:A:634:TRP:CE2	1:A:993:ALA:HB2	2.49	0.47
1:E:108:GLN:HE21	1:E:129:VAL:HG11	1.80	0.47
1:F:986:PRO:O	1:F:990:SER:HB3	2.15	0.47
1:A:830:PRO:CG	1:A:836:SER:HA	2.44	0.47
1:C:335:ALA:O	1:C:339:GLU:HG2	2.15	0.47
1:A:893:SER:OG	1:A:894:TRP:N	2.48	0.47
1:A:715:VAL:HG13	1:A:715:VAL:O	2.14	0.47
1:E:529:ARG:O	1:E:532:ALA:HB3	2.13	0.47
1:A:190:PRO:HB3	1:A:788:TRP:CD2	2.49	0.47
1:C:763:ASP:C	1:C:763:ASP:OD1	2.53	0.47
1:C:357:LEU:O	1:C:360:GLN:OE1	2.32	0.47
1:F:887:LEU:CD1	1:F:900:VAL:HG11	2.44	0.47
1:F:887:LEU:HD13	1:F:900:VAL:HG11	1.97	0.47
1:B:151:LYS:HD2	1:B:279:ALA:H	1.78	0.47
1:C:752:ALA:HB3	1:C:753:TRP:CE3	2.50	0.47
1:C:47:VAL:CG2	1:C:127:ILE:HG13	2.43	0.47
1:D:124:ARG:NH2	1:D:757:TYR:O	2.47	0.47
1:D:847:VAL:HG21	1:D:856:TYR:CE2	2.50	0.47
1:C:880:LEU:CD1	1:C:934:ILE:HG13	2.44	0.47
1:F:936:LEU:HD13	1:F:1009:MET:SD	2.54	0.47
1:A:88:MET:C	1:A:88:MET:SD	2.92	0.47
1:F:947:PHE:O	1:F:950:GLU:HB2	2.15	0.47
1:F:446:ALA:HA	1:F:478:MET:CE	2.44	0.47
1:D:5:PHE:CD2	1:D:487:ILE:HG23	2.50	0.47
1:F:360:GLN:O	1:F:361:ASN:HB2	2.15	0.47
1:D:749:VAL:O	1:D:753:TRP:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:483:ILE:HG22	1:E:487:ILE:HD12	1.97	0.47
1:D:78:ILE:HD11	1:D:90:ILE:CG2	2.44	0.47
1:A:9:PRO:CD	1:B:892:GLU:OE2	2.59	0.47
1:B:573:PHE:CE2	1:B:668:PRO:HB3	2.49	0.47
1:E:261:ARG:HB3	1:E:263:LYS:HG2	1.97	0.47
1:B:348:ILE:HD11	1:B:369:THR:HG23	1.96	0.47
1:C:262:LEU:HA	1:C:265:VAL:HG22	1.97	0.47
1:A:705:LEU:HB3	1:A:846:ILE:HG23	1.97	0.47
1:F:941:ALA:HA	1:F:1020:VAL:HG21	1.97	0.47
1:C:804:ALA:O	1:C:805:THR:HB	2.14	0.47
1:F:159:VAL:CG1	1:F:159:VAL:O	2.61	0.47
1:E:725:GLN:HG2	1:E:809:GLU:O	2.15	0.47
1:F:858:TRP:HE1	1:F:866:ARG:HH21	1.61	0.47
1:F:573:PHE:CD2	1:F:668:PRO:HD3	2.50	0.47
1:C:500:ILE:HG23	1:C:500:ILE:O	2.13	0.47
1:A:554:TRP:O	1:A:557:THR:OG1	2.29	0.47
1:E:969:ARG:CG	1:E:969:ARG:HH11	2.27	0.47
1:F:699:ARG:HD2	1:F:824:MET:HE1	1.96	0.47
1:C:701:LYS:HE2	1:C:705:LEU:HD11	1.96	0.47
1:A:772:LEU:O	1:A:773:GLN:HB2	2.15	0.47
1:C:1020:VAL:N	1:C:1021:PRO:CD	2.77	0.47
1:F:669:PRO:HD2	1:F:675:GLY:O	2.15	0.47
1:C:207:ILE:HG22	1:C:759:ASN:HD21	1.80	0.47
1:D:193:LEU:HD21	1:D:200:PRO:HD3	1.97	0.47
1:B:890:LEU:HD12	1:B:890:LEU:O	2.14	0.47
1:B:959:VAL:O	1:B:963:ILE:HG13	2.14	0.47
1:A:562:ALA:O	1:A:923:ASP:HA	2.14	0.47
1:C:977:SER:HB3	1:C:1013:THR:OG1	2.15	0.47
1:C:428:ARG:HG2	1:C:428:ARG:HH11	1.80	0.47
1:B:896:ILE:N	1:B:897:PRO:CD	2.78	0.47
1:E:3:LYS:HG2	1:E:432:ARG:HB3	1.97	0.47
1:C:359:LEU:HD12	1:C:365:THR:HA	1.95	0.47
1:E:552:MET:HA	1:E:909:ILE:CD1	2.45	0.47
1:B:829:GLU:CB	1:B:830:PRO:HD2	2.33	0.47
1:D:749:VAL:HG22	1:D:753:TRP:CZ3	2.41	0.47
1:C:687:GLN:C	1:C:689:GLY:H	2.18	0.47
1:C:588:GLN:HG2	1:C:613:THR:HG21	1.97	0.47
1:D:218:GLN:HA	1:D:234:ILE:H	1.79	0.47
1:F:592:ASP:O	1:F:595:ARG:HG3	2.15	0.47
1:F:516:PHE:HA	1:F:519:MET:HG3	1.95	0.47
1:F:501:GLU:O	1:F:502:LYS:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:631:LEU:HD23	1:D:637:ARG:CZ	2.45	0.47
1:E:834:LEU:HD12	1:E:834:LEU:N	2.29	0.47
1:D:449:LEU:CD1	1:D:478:MET:HG3	2.45	0.47
1:F:319:GLN:HG3	1:F:320:GLY:N	2.30	0.47
1:E:1013:THR:HG22	1:E:1013:THR:O	2.15	0.47
1:B:715:VAL:O	1:B:715:VAL:HG12	2.14	0.47
1:D:994:GLY:O	1:D:996:GLY:N	2.48	0.47
1:A:861:LEU:HD23	1:A:861:LEU:N	2.29	0.47
1:E:431:ALA:HB2	1:E:494:ALA:HB2	1.97	0.47
1:D:472:ILE:HD13	1:D:472:ILE:N	2.30	0.47
1:D:470:PHE:CE2	1:D:474:ILE:HG13	2.50	0.47
1:B:984:VAL:CG1	1:B:1006:ILE:HD11	2.45	0.47
1:D:219:LEU:HD12	1:D:234:ILE:HG12	1.96	0.47
1:E:726:TYR:CZ	1:E:806:GLY:HA3	2.50	0.47
1:C:573:PHE:HB2	1:C:666:PHE:CE1	2.50	0.47
1:C:142:VAL:CG2	1:C:154:LEU:HD22	2.45	0.47
1:C:314:GLU:N	1:C:315:PRO:CD	2.77	0.47
1:B:443:VAL:O	1:B:447:MET:HG2	2.15	0.47
1:F:504:ASP:CG	1:F:504:ASP:O	2.53	0.47
1:A:185:ARG:HH12	1:A:275:TYR:HE2	1.58	0.47
1:C:870:SER:O	1:C:873:PRO:HD2	2.14	0.47
1:A:1001:ILE:HG23	1:A:1002:GLY:N	2.30	0.47
1:D:162:ILE:C	1:D:165:PRO:HD2	2.36	0.47
1:E:622:GLN:C	1:E:624:SER:H	2.18	0.47
1:F:332:VAL:HA	1:F:634:TRP:HH2	1.78	0.47
1:B:141:GLY:HA2	1:B:288:GLY:HA3	1.97	0.47
1:A:583:SER:HB3	1:C:229:GLN:HA	1.96	0.47
1:E:154:LEU:O	1:E:158:ILE:HG12	2.15	0.47
1:E:878:LEU:O	1:E:882:VAL:HG23	2.15	0.47
1:C:401:ALA:O	1:C:405:LEU:CD2	2.55	0.47
1:F:904:VAL:O	1:F:907:GLY:N	2.47	0.47
1:D:954:GLN:HG2	1:D:955:GLY:N	2.30	0.47
1:E:327:TYR:HB2	1:E:630:MET:CE	2.45	0.47
1:B:745:ILE:HG23	1:B:800:PHE:CE1	2.50	0.47
1:D:187:TRP:C	1:D:266:ALA:HB1	2.34	0.47
1:B:367:ILE:CD1	1:B:367:ILE:H	2.28	0.47
1:A:229:GLN:NE2	1:B:586:ARG:HD2	2.30	0.47
1:F:152:GLU:H	1:F:152:GLU:CD	2.15	0.47
1:C:609:VAL:HG13	1:C:629:ILE:HD13	1.96	0.47
1:C:727:LYS:HE3	1:C:729:GLU:CG	2.44	0.47
1:A:847:VAL:HA	1:A:850:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:847:VAL:HA	1:A:850:LEU:CD1	2.45	0.47
1:F:499:PRO:O	1:F:500:ILE:HD13	2.15	0.47
1:D:685:GLN:HG3	1:D:687:GLN:NE2	2.29	0.47
1:D:655:PHE:HE1	1:D:658:PHE:HB3	1.77	0.47
1:B:30:LEU:HD23	1:B:390:ILE:CD1	2.44	0.47
1:E:426:SER:HB2	1:E:427:PRO:HD2	1.97	0.47
1:D:791:ARG:HA	1:D:797:MET:HA	1.97	0.47
1:F:698:ALA:O	1:F:702:PHE:HB2	2.15	0.47
1:D:761:PHE:CE1	1:D:763:ASP:HB2	2.50	0.47
1:A:974:VAL:HG13	1:A:978:LEU:HD13	1.97	0.47
1:B:133:VAL:HG21	1:B:135:ASN:ND2	2.30	0.47
1:F:281:PHE:O	1:F:282:ASN:HB2	2.15	0.47
1:F:49:TYR:HB3	1:F:52:ALA:HB3	1.96	0.47
1:C:706:ALA:HB1	1:C:715:VAL:HG21	1.97	0.47
1:A:592:ASP:O	1:A:596:GLU:HG3	2.15	0.47
1:C:923:ASP:O	1:C:926:PHE:N	2.48	0.46
1:B:178:PHE:HB3	2:B:2001:LMT:C4	2.45	0.46
1:A:363:ARG:O	1:A:367:ILE:HG13	2.14	0.46
1:C:755:SER:HB3	1:C:773:GLN:HB2	1.98	0.46
1:C:80:SER:HA	1:C:89:THR:O	2.15	0.46
1:D:64:VAL:HG21	1:D:118:LEU:HD11	1.96	0.46
1:F:605:SER:OG	1:F:647:LEU:HD13	2.15	0.46
1:F:635:GLU:C	1:F:637:ARG:H	2.18	0.46
1:F:644:VAL:HA	1:F:647:LEU:HB3	1.97	0.46
1:F:646:GLU:O	1:F:649:LYS:N	2.48	0.46
1:B:544:ILE:HG21	1:B:1019:TRP:HZ2	1.80	0.46
1:B:344:LEU:O	1:B:348:ILE:HG22	2.15	0.46
1:C:246:PHE:CB	1:C:268:VAL:HG11	2.45	0.46
1:F:725:GLN:H	1:F:810:TYR:HA	1.80	0.46
1:E:969:ARG:HG3	1:E:969:ARG:HH11	1.80	0.46
1:A:82:SER:O	1:A:814:LYS:HA	2.15	0.46
1:D:730:ILE:HA	1:D:804:ALA:HB2	1.97	0.46
1:F:784:ASP:HA	1:F:787:LYS:HD3	1.96	0.46
1:B:157:TYR:OH	1:B:317:MET:HA	2.15	0.46
1:D:953:GLU:CG	1:D:954:GLN:N	2.72	0.46
1:C:754:GLY:O	1:C:755:SER:C	2.53	0.46
1:F:945:VAL:HG23	1:F:1020:VAL:CG1	2.44	0.46
1:F:727:LYS:HD3	1:F:807:LYS:HE2	1.97	0.46
1:A:142:VAL:O	1:A:154:LEU:HD13	2.16	0.46
1:A:684:LEU:O	1:A:823:ALA:HA	2.16	0.46
1:D:140:VAL:HG21	1:D:310:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:685:GLN:HB3	1:A:821:VAL:HG11	1.96	0.46
1:E:405:LEU:HD22	1:E:481:SER:OG	2.14	0.46
1:D:606:VAL:CG1	1:D:607:SER:N	2.78	0.46
1:A:974:VAL:O	1:A:977:SER:N	2.48	0.46
1:A:132:ALA:HB2	1:A:173:GLY:HA3	1.96	0.46
1:F:851:PRO:HB2	1:F:854:VAL:HG23	1.96	0.46
1:C:982:LEU:HA	1:C:985:VAL:HG23	1.97	0.46
1:A:492:LEU:HD22	1:A:496:MET:HE1	1.97	0.46
1:E:47:VAL:HG23	1:E:88:MET:SD	2.56	0.46
1:F:449:LEU:O	1:F:453:PHE:HD2	1.98	0.46
1:A:213:GLN:HG3	1:B:56:THR:HG22	1.98	0.46
1:B:846:ILE:O	1:B:848:LYS:N	2.48	0.46
1:B:455:PRO:O	1:B:456:MET:C	2.53	0.46
1:F:682:LEU:O	1:F:825:GLU:HG3	2.16	0.46
1:E:625:GLY:O	1:E:626:MET:HB3	2.16	0.46
1:D:842:ALA:O	1:D:846:ILE:HG13	2.15	0.46
1:F:216:SER:HB2	1:F:234:ILE:O	2.16	0.46
1:C:1014:VAL:HG23	1:C:1015:LEU:HD22	1.96	0.46
1:B:159:VAL:HA	1:B:163:GLN:HB2	1.97	0.46
1:A:242:THR:OG1	1:A:244:GLU:HG2	2.15	0.46
1:E:680:PHE:CE1	1:E:828:GLY:HA3	2.50	0.46
1:E:703:LEU:HD22	1:E:715:VAL:O	2.14	0.46
1:A:228:GLN:HB2	1:B:780:MET:CE	2.45	0.46
1:B:178:PHE:CZ	2:B:2001:LMT:H81	2.51	0.46
1:E:185:ARG:HD3	1:E:771:TYR:HB2	1.97	0.46
1:D:742:LEU:H	1:D:742:LEU:CD1	2.22	0.46
1:F:433:LYS:NZ	1:F:437:GLN:NE2	2.64	0.46
1:C:30:LEU:HD11	1:C:384:ALA:CB	2.44	0.46
1:C:969:ARG:O	1:C:973:ILE:HG13	2.15	0.46
1:F:908:VAL:O	1:F:911:ALA:N	2.49	0.46
1:F:912:LEU:CD2	1:F:926:PHE:HZ	2.27	0.46
1:C:698:ALA:O	1:C:702:PHE:HB2	2.15	0.46
1:E:16:ALA:O	1:E:20:MET:HG3	2.15	0.46
1:F:121:GLU:O	1:F:124:ARG:HB3	2.16	0.46
1:C:456:MET:HB2	1:C:467:TYR:HB3	1.98	0.46
1:C:910:GLY:HA3	1:C:1011:THR:OG1	2.16	0.46
1:C:923:ASP:O	1:C:924:VAL:C	2.53	0.46
1:B:317:MET:HE1	1:B:323:VAL:HG13	1.98	0.46
1:A:60:THR:OG1	1:A:61:VAL:HG23	2.16	0.46
1:D:32:VAL:CG2	1:D:337:ILE:HD13	2.42	0.46
1:E:799:PRO:HB2	1:E:801:ASN:ND2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:544:ILE:O	1:D:548:ILE:HG13	2.16	0.46
1:C:211:ASN:HB2	1:C:240:LEU:HD22	1.97	0.46
1:E:72:ILE:HD11	1:E:75:LEU:HD12	1.96	0.46
1:F:475:VAL:HG23	1:F:476:SER:N	2.31	0.46
1:D:572:LEU:HG	1:D:629:ILE:HD12	1.97	0.46
2:D:2002:LMT:O3'	2:D:2002:LMT:O5B	2.20	0.46
1:D:360:GLN:O	1:D:361:ASN:HB2	2.15	0.46
1:F:831:ALA:HB3	1:F:834:LEU:HD12	1.96	0.46
1:D:251:LEU:HB2	1:D:260:VAL:O	2.16	0.46
1:A:428:ARG:O	1:A:432:ARG:HG3	2.16	0.46
1:B:415:ASN:O	1:B:419:VAL:HG23	2.16	0.46
1:B:958:ILE:CG2	1:B:1025:VAL:HG22	2.37	0.46
1:D:751:ILE:O	1:D:751:ILE:HG22	2.16	0.46
1:F:1013:THR:O	1:F:1017:ILE:HG12	2.16	0.46
1:D:61:VAL:O	1:D:64:VAL:HG22	2.16	0.46
1:A:649:LYS:NZ	1:A:652:GLN:HE21	2.14	0.46
1:C:371:ALA:HA	1:C:374:VAL:CG1	2.45	0.46
1:F:99:ASP:HB3	1:F:102:ILE:CD1	2.45	0.46
1:E:762:ILE:HD13	1:E:767:VAL:HG12	1.97	0.46
1:D:1009:MET:O	1:D:1013:THR:HG23	2.16	0.46
1:A:685:GLN:O	1:A:854:VAL:HG13	2.15	0.46
1:A:145:THR:C	1:A:147:GLY:H	2.18	0.46
1:F:298:ASN:HB3	1:F:301:ASP:HB2	1.97	0.46
1:A:641:GLU:HG3	1:A:650:ARG:NH1	2.30	0.46
1:A:708:GLN:HE22	1:D:809:GLU:CD	2.17	0.46
1:A:750:SER:HA	1:C:215:SER:O	2.16	0.46
1:B:57:VAL:O	1:B:61:VAL:HB	2.16	0.46
1:C:713:GLN:NE2	1:C:714:ARG:HE	2.07	0.46
1:E:235:ILE:HD12	1:F:53:SER:HB3	1.98	0.46
1:B:455:PRO:HG3	2:B:2004:LMT:H51	1.97	0.46
1:D:702:PHE:CD2	1:D:702:PHE:C	2.89	0.46
1:E:848:LYS:C	1:E:850:LEU:H	2.19	0.46
1:B:227:GLY:O	1:B:228:GLN:HB3	2.16	0.46
1:B:43:ILE:O	1:B:91:THR:HA	2.15	0.46
1:E:133:VAL:HG22	1:E:135:ASN:OD1	2.16	0.46
1:F:533:SER:O	1:F:536:LYS:N	2.49	0.46
1:C:946:GLU:O	1:C:950:GLU:HG3	2.15	0.46
1:C:144:SER:HA	1:C:320:GLY:O	2.16	0.46
1:E:203:VAL:O	1:E:207:ILE:HG12	2.15	0.46
1:A:1016:ALA:HB1	1:A:1020:VAL:CG2	2.45	0.46
1:B:178:PHE:CE2	2:B:2001:LMT:H81	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:488:LEU:O	1:E:491:ALA:HB3	2.16	0.46
1:C:45:VAL:HG12	1:C:127:ILE:HG21	1.97	0.46
1:C:1:MET:CA	2:C:2002:LMT:H6D	2.45	0.46
1:F:531:VAL:O	1:F:535:LEU:HG	2.16	0.46
1:F:595:ARG:HG3	1:F:596:GLU:N	2.31	0.46
1:B:336:SER:O	1:B:340:VAL:CG2	2.62	0.46
1:C:791:ARG:HA	1:C:797:MET:HE3	1.97	0.46
1:C:743:ALA:HB1	1:C:746:ASN:CG	2.35	0.46
2:C:2001:LMT:H2B	2:C:2001:LMT:O3'	2.16	0.46
1:E:14:VAL:O	1:E:17:LEU:N	2.49	0.46
1:E:257:GLY:O	1:E:258:SER:C	2.53	0.46
1:C:466:ILE:O	1:C:467:TYR:C	2.54	0.46
1:C:537:HIS:O	1:C:541:TYR:CD2	2.69	0.46
1:D:391:ASN:ND2	1:D:469:GLN:OE1	2.49	0.46
1:A:242:THR:OG1	1:A:245:GLN:HG3	2.16	0.46
1:F:826:ILE:C	1:F:827:LEU:HD23	2.36	0.46
1:F:859:THR:HA	1:F:863:TYR:HB2	1.96	0.46
1:C:847:VAL:HA	1:C:850:LEU:HD13	1.97	0.46
1:F:330:THR:HB	1:F:331:PRO:HD3	1.98	0.46
1:F:150:THR:O	1:F:151:LYS:C	2.54	0.46
1:E:555:MET:CG	1:E:912:LEU:HB3	2.46	0.46
1:B:563:PHE:CD2	1:B:564:LEU:HG	2.51	0.46
1:F:884:PHE:CE1	1:F:897:PRO:HB2	2.50	0.46
1:A:347:ALA:HA	1:A:350:LEU:HB2	1.97	0.46
1:A:354:VAL:HG21	1:A:979:ALA:HA	1.97	0.46
1:C:1016:ALA:O	1:C:1018:PHE:N	2.48	0.46
1:A:279:ALA:HB1	1:A:611:THR:O	2.16	0.46
1:D:133:VAL:CG1	1:D:135:ASN:OD1	2.64	0.46
1:F:61:VAL:HG21	1:F:122:VAL:HG21	1.97	0.46
1:C:927:GLN:HB2	1:C:927:GLN:HE21	1.58	0.46
1:D:467:TYR:O	1:D:470:PHE:N	2.46	0.46
1:D:468:ARG:O	1:D:472:ILE:HD12	2.16	0.46
1:B:134:LYS:NZ	1:B:673:GLU:HA	2.31	0.46
1:A:780:MET:CE	1:C:228:GLN:HB2	2.46	0.46
1:D:410:ILE:O	1:D:414:GLU:HB2	2.16	0.46
1:A:8:ARG:HB3	1:A:11:PHE:HB2	1.97	0.46
1:C:317:MET:CE	1:C:321:MET:HE2	2.46	0.46
1:A:410:ILE:CA	1:A:413:VAL:HG12	2.43	0.46
1:F:293:LEU:CD2	1:F:297:ALA:HB3	2.45	0.46
1:E:655:PHE:HB3	1:E:663:VAL:O	2.15	0.46
1:E:19:ILE:HG23	1:E:378:GLY:HA3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:ILE:O	1:A:14:VAL:HG23	2.15	0.46
1:A:725:GLN:O	1:A:808:TRP:CE3	2.69	0.46
1:F:698:ALA:HB1	1:F:850:LEU:HD23	1.98	0.46
1:A:655:PHE:O	1:A:658:PHE:HB2	2.16	0.46
1:D:726:TYR:CZ	1:D:806:GLY:HA3	2.50	0.46
1:E:10:ILE:O	1:E:14:VAL:HG23	2.16	0.46
1:B:407:ASP:O	1:B:411:VAL:CG1	2.63	0.46
1:F:542:LEU:HG	1:F:1022:LEU:HD11	1.98	0.46
1:E:442:LEU:O	1:E:445:ILE:HG12	2.16	0.45
1:A:293:LEU:HD12	1:A:294:ALA:H	1.81	0.45
1:C:159:VAL:HG13	1:C:163:GLN:NE2	2.31	0.45
1:C:291:ILE:CG1	1:C:291:ILE:O	2.62	0.45
1:C:440:GLY:O	1:C:891:TYR:OH	2.20	0.45
1:B:46:GLN:HA	1:B:88:MET:CE	2.46	0.45
1:B:198:LEU:CD2	1:B:252:LYS:HD2	2.42	0.45
1:C:925:PHE:CZ	1:C:997:SER:HB3	2.51	0.45
1:F:518:ARG:HA	1:F:521:LEU:CB	2.42	0.45
1:D:900:VAL:HG23	1:D:941:ALA:HB3	1.98	0.45
1:F:516:PHE:HA	1:F:519:MET:CG	2.46	0.45
1:D:139:VAL:HG22	1:D:327:TYR:N	2.31	0.45
1:A:944:ILE:HD13	1:A:969:ARG:HG3	1.98	0.45
1:E:740:VAL:CG2	1:E:745:ILE:HD11	2.45	0.45
1:F:21:LEU:HG	1:F:25:LEU:HD12	1.97	0.45
1:D:519:MET:O	1:D:523:THR:N	2.38	0.45
1:C:914:ALA:HA	1:C:917:MET:HG2	1.97	0.45
1:F:913:LEU:O	1:F:916:SER:N	2.49	0.45
1:E:136:PHE:CD1	1:E:290:ALA:HB1	2.51	0.45
1:E:1011:THR:O	1:E:1015:LEU:HB2	2.15	0.45
1:F:545:TYR:CE1	1:F:1023:PHE:HZ	2.34	0.45
1:E:575:GLN:CD	1:E:617:PHE:HB2	2.36	0.45
1:D:753:TRP:HZ2	1:D:785:LEU:HA	1.81	0.45
1:D:575:GLN:NE2	1:D:616:ASN:ND2	2.64	0.45
1:B:984:VAL:CG1	1:B:1002:GLY:HA2	2.46	0.45
1:C:773:GLN:HG2	1:C:779:ARG:NH1	2.31	0.45
1:F:863:TYR:O	1:F:864:GLU:C	2.51	0.45
1:D:545:TYR:OH	1:D:902:LEU:HD22	2.16	0.45
1:D:461:GLY:O	1:D:465:VAL:HG23	2.15	0.45
1:F:595:ARG:O	1:F:599:LEU:HB2	2.17	0.45
1:D:120:GLN:O	1:D:124:ARG:HG3	2.16	0.45
1:A:851:PRO:O	1:A:852:LYS:C	2.54	0.45
1:A:649:LYS:N	1:A:649:LYS:HD2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:440:GLY:HA3	2:B:2002:LMT:H2'	1.98	0.45
1:E:252:LYS:HG2	1:E:260:VAL:HB	1.98	0.45
1:C:914:ALA:O	1:C:915:THR:C	2.54	0.45
1:C:328:ASP:OD1	1:C:328:ASP:C	2.55	0.45
1:F:447:MET:HE3	1:F:886:CYS:HB3	1.99	0.45
1:E:887:LEU:O	1:E:888:ALA:C	2.55	0.45
1:D:614:GLY:HA2	1:D:621:GLY:O	2.16	0.45
1:A:527:TYR:O	1:A:531:VAL:HG23	2.16	0.45
1:C:337:ILE:O	1:C:341:VAL:HG23	2.15	0.45
1:D:219:LEU:HD13	1:D:232:ALA:O	2.16	0.45
1:D:188:LEU:HD11	1:D:203:VAL:HG21	1.98	0.45
1:A:995:SER:O	1:A:996:GLY:C	2.53	0.45
1:B:345:GLY:O	1:B:348:ILE:HG23	2.17	0.45
1:F:1020:VAL:N	1:F:1021:PRO:CD	2.80	0.45
1:B:435:MET:O	1:B:439:GLN:CB	2.62	0.45
1:F:908:VAL:HG13	1:F:930:LEU:CD2	2.46	0.45
1:E:171:GLY:HA3	1:E:302:THR:CG2	2.46	0.45
1:B:517:ASN:O	1:B:521:LEU:HB2	2.16	0.45
1:A:80:SER:HA	1:A:89:THR:O	2.16	0.45
1:D:5:PHE:CE2	1:D:487:ILE:HD13	2.51	0.45
1:D:200:PRO:HG2	1:D:748:THR:HG23	1.98	0.45
1:B:34:GLN:HG2	1:B:35:TYR:CD2	2.51	0.45
1:D:189:ASP:OD2	1:D:191:ALA:HB3	2.16	0.45
1:D:100:PRO:O	1:D:103:ALA:HB3	2.17	0.45
1:D:587:THR:C	1:D:589:VAL:H	2.20	0.45
1:D:443:VAL:HG12	1:D:444:GLY:N	2.31	0.45
1:A:105:VAL:O	1:A:109:ASN:HB2	2.16	0.45
1:D:800:PHE:C	1:D:802:ALA:H	2.20	0.45
1:A:676:ASN:O	1:A:677:ALA:HB2	2.15	0.45
1:D:984:VAL:O	1:D:987:LEU:N	2.46	0.45
1:C:482:VAL:HG22	1:C:486:LEU:HD22	1.97	0.45
1:D:246:PHE:O	1:D:262:LEU:HD23	2.15	0.45
1:E:573:PHE:CE2	1:E:668:PRO:HB3	2.51	0.45
1:F:410:ILE:HD12	1:F:411:VAL:N	2.31	0.45
1:D:757:TYR:CE1	1:D:769:ARG:HB3	2.49	0.45
1:F:206:ALA:HB1	1:F:249:ILE:CG2	2.46	0.45
1:C:306:ILE:CD1	1:C:307:ARG:N	2.77	0.45
1:D:574:ALA:HB2	1:D:629:ILE:HD11	1.98	0.45
1:D:674:LEU:O	1:D:674:LEU:HG	2.16	0.45
1:B:507:GLU:O	1:B:518:ARG:NH1	2.50	0.45
1:A:871:GLN:O	1:A:872:ALA:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:SER:O	1:B:208:GLN:HG3	2.16	0.45
1:E:26:SER:O	1:E:30:LEU:HB2	2.16	0.45
1:C:68:GLN:HB3	1:C:110:LYS:HB3	1.97	0.45
1:E:449:LEU:HD22	1:E:453:PHE:HE2	1.82	0.45
1:F:241:GLN:HB2	1:F:762:ILE:HG13	1.98	0.45
1:F:184:MET:HE3	1:F:184:MET:HA	1.97	0.45
1:D:379:THR:HA	1:D:382:VAL:HG13	1.99	0.45
1:C:344:LEU:HD23	1:C:399:VAL:HG22	1.99	0.45
1:C:351:VAL:HG13	1:C:979:ALA:HB1	1.98	0.45
1:D:759:ASN:C	1:D:770:VAL:HG12	2.36	0.45
1:D:616:ASN:O	1:D:617:PHE:C	2.54	0.45
1:A:348:ILE:HD12	1:A:372:VAL:CG1	2.42	0.45
1:A:493:CYS:HB3	1:A:497:LEU:HD22	1.98	0.45
1:C:584:ALA:HA	1:C:587:THR:HB	1.99	0.45
1:C:774:GLY:O	1:C:779:ARG:NH1	2.48	0.45
1:A:993:ALA:C	1:A:995:SER:H	2.19	0.45
1:B:709:ASN:OD1	1:B:711:ALA:HB3	2.17	0.45
1:A:328:ASP:OD1	1:A:331:PRO:CD	2.64	0.45
1:C:20:MET:HG2	1:C:377:LEU:HD12	1.99	0.45
1:A:943:LEU:HD13	1:A:969:ARG:HH21	1.79	0.45
1:D:445:ILE:HG13	1:D:446:ALA:N	2.31	0.45
1:B:228:GLN:O	1:B:230:LEU:N	2.50	0.45
1:E:609:VAL:HG13	1:E:627:ALA:HB1	1.99	0.45
1:F:183:SER:N	1:F:271:GLY:O	2.44	0.45
1:D:30:LEU:HD21	1:D:384:ALA:HB2	1.98	0.45
1:E:715:VAL:O	1:E:715:VAL:HG12	2.17	0.45
1:A:302:THR:O	1:A:306:ILE:HG13	2.16	0.45
1:D:156:ASN:HD21	1:D:768:LYS:CE	2.20	0.45
1:E:597:TYR:OH	1:E:650:ARG:O	2.34	0.45
1:F:602:GLU:OE2	1:F:650:ARG:NH2	2.49	0.45
1:A:637:ARG:HB2	1:A:642:ASN:HB3	1.98	0.45
1:D:723:GLU:HB2	1:D:724:PRO:CD	2.43	0.45
1:C:376:LEU:HA	1:C:379:THR:CG2	2.44	0.45
1:E:406:VAL:O	1:E:410:ILE:HG12	2.17	0.45
1:A:940:ASN:HD21	1:A:976:THR:CG2	2.30	0.45
1:B:30:LEU:HD23	1:B:390:ILE:CG1	2.45	0.45
1:A:554:TRP:CZ2	1:A:558:ARG:HD2	2.52	0.45
1:B:682:LEU:CD2	1:B:826:ILE:O	2.64	0.45
1:A:726:TYR:CD1	1:A:808:TRP:CE2	3.04	0.45
1:D:791:ARG:HB2	1:D:797:MET:HE2	1.98	0.45
1:D:384:ALA:O	1:D:387:GLY:N	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:569:GLN:O	1:E:571:VAL:N	2.42	0.45
1:E:907:GLY:HA2	1:E:1011:THR:OG1	2.16	0.45
1:C:340:VAL:HG13	1:C:341:VAL:N	2.32	0.45
1:B:302:THR:O	1:B:306:ILE:HG12	2.17	0.45
1:B:49:TYR:CE1	1:B:121:GLU:HG3	2.52	0.45
1:F:330:THR:O	1:F:333:VAL:HB	2.17	0.45
1:C:421:ALA:O	1:C:502:LYS:HA	2.16	0.45
1:F:376:LEU:HA	1:F:379:THR:HG22	1.98	0.45
1:B:584:ALA:H	1:B:622:GLN:HE21	1.63	0.45
1:D:140:VAL:HB	1:D:289:ILE:HD11	1.98	0.45
1:E:365:THR:HG22	1:E:366:LEU:HD23	1.98	0.45
1:D:626:MET:HE1	1:D:628:PHE:CE1	2.51	0.45
1:A:512:PHE:HD1	1:A:512:PHE:N	2.14	0.45
1:A:709:ASN:OD1	1:A:711:ALA:HB3	2.16	0.45
1:F:72:ILE:CG2	1:F:73:ASP:N	2.79	0.45
1:D:517:ASN:O	1:D:521:LEU:HB2	2.16	0.45
1:A:115:THR:HB	1:A:116:PRO:HD3	1.98	0.45
1:E:685:GLN:O	1:E:855:GLY:N	2.50	0.45
1:D:616:ASN:OD1	1:D:618:ALA:HB3	2.17	0.45
1:E:739:GLY:O	1:E:793:ASP:N	2.50	0.45
1:F:758:VAL:HG23	1:F:759:ASN:N	2.32	0.45
1:C:900:VAL:HG23	1:C:901:MET:CE	2.46	0.45
1:B:451:ALA:HA	2:B:2004:LMT:H92	1.99	0.45
1:A:324:VAL:HG22	1:A:325:TYR:N	2.32	0.45
1:D:671:VAL:HG13	1:D:674:LEU:HG	1.98	0.45
1:F:699:ARG:HD2	1:F:824:MET:HE2	1.98	0.45
1:A:102:ILE:HD12	1:C:101:ASP:HB3	1.99	0.45
1:E:54:ALA:O	1:E:815:LEU:HD12	2.15	0.45
1:D:977:SER:O	1:D:981:ILE:HG13	2.16	0.45
1:F:377:LEU:O	1:F:380:PHE:HB2	2.16	0.45
1:E:294:ALA:O	1:E:295:THR:C	2.52	0.45
1:A:907:GLY:O	1:A:1008:GLY:HA2	2.17	0.45
1:A:865:GLU:C	1:A:867:LEU:N	2.70	0.45
1:D:527:TYR:CE1	1:D:966:CYS:HB3	2.52	0.45
1:C:400:LEU:HD23	1:C:984:VAL:CG1	2.47	0.45
1:B:631:LEU:HD21	1:B:647:LEU:HD22	1.99	0.45
1:F:376:LEU:HA	1:F:379:THR:CG2	2.47	0.45
1:F:749:VAL:HG23	1:F:750:SER:N	2.32	0.45
1:D:780:MET:HE3	1:F:228:GLN:HG2	1.99	0.45
1:F:724:PRO:HA	1:F:810:TYR:CB	2.47	0.45
1:E:633:PRO:O	1:E:637:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:THR:HG23	1:A:153:ASP:H	1.82	0.45
1:A:354:VAL:HG11	1:A:979:ALA:HB2	1.99	0.45
1:B:601:LYS:O	1:B:601:LYS:HD3	2.16	0.45
1:D:354:VAL:O	1:D:358:PHE:HD2	1.99	0.45
1:E:34:GLN:HB2	1:E:333:VAL:CG2	2.46	0.45
1:C:214:ILE:CD1	1:C:216:SER:HB3	2.47	0.45
1:A:23:GLY:O	1:A:26:SER:HB2	2.17	0.45
1:E:614:GLY:HA2	1:E:621:GLY:O	2.17	0.45
1:C:359:LEU:C	1:C:360:GLN:HG2	2.37	0.45
1:C:541:TYR:O	1:C:544:ILE:HG22	2.17	0.45
1:B:156:ASN:HA	1:B:159:VAL:HG23	1.98	0.45
1:D:1021:PRO:O	1:D:1025:VAL:HG23	2.17	0.45
1:E:61:VAL:HG12	1:E:62:VAL:N	2.32	0.45
1:C:46:GLN:HG2	1:C:89:THR:OG1	2.17	0.45
1:D:416:VAL:HG12	1:D:420:MET:CE	2.44	0.45
1:D:902:LEU:HD13	1:D:1023:PHE:CE1	2.52	0.45
1:C:925:PHE:HD1	1:C:1001:ILE:HB	1.82	0.45
1:A:8:ARG:HA	1:B:892:GLU:OE2	2.16	0.45
1:D:124:ARG:NH1	1:D:757:TYR:CE2	2.85	0.45
1:E:159:VAL:HG21	1:E:181:GLN:CG	2.46	0.45
1:E:959:VAL:O	1:E:963:ILE:HG13	2.17	0.45
1:D:687:GLN:HE21	1:D:687:GLN:CA	2.30	0.45
1:A:999:HIS:O	1:A:1003:THR:HG23	2.16	0.45
1:A:149:MET:HE2	1:A:153:ASP:HB3	1.98	0.45
1:D:103:ALA:O	1:D:107:VAL:HG23	2.17	0.45
1:B:208:GLN:HA	1:B:759:ASN:OD1	2.17	0.45
1:F:178:PHE:CE2	1:F:290:ALA:HB2	2.51	0.45
1:D:344:LEU:CD2	1:D:402:ILE:HD11	2.47	0.44
1:D:330:THR:N	1:D:331:PRO:CD	2.80	0.44
1:D:415:ASN:O	1:D:416:VAL:C	2.53	0.44
1:D:66:GLU:OE1	1:D:820:GLY:HA2	2.16	0.44
1:C:629:ILE:HG22	1:C:631:LEU:HD21	1.98	0.44
1:D:240:LEU:HB2	1:D:246:PHE:CE1	2.51	0.44
1:E:281:PHE:O	1:E:282:ASN:C	2.54	0.44
1:A:1015:LEU:O	1:A:1019:TRP:HE3	2.00	0.44
1:D:38:ILE:HD11	1:D:671:VAL:HG11	1.98	0.44
1:E:138:MET:HE3	1:E:306:ILE:CD1	2.47	0.44
1:E:143:VAL:HG22	1:E:144:SER:H	1.80	0.44
1:D:157:TYR:HA	1:D:161:ASN:ND2	2.33	0.44
1:A:190:PRO:HB3	1:A:788:TRP:CE3	2.52	0.44
1:F:20:MET:HG2	1:F:377:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:938:ALA:O	1:F:942:ILE:HG12	2.17	0.44
1:A:997:SER:O	1:A:998:GLN:C	2.54	0.44
1:C:542:LEU:O	1:C:545:TYR:HB3	2.17	0.44
1:A:930:LEU:O	1:A:933:THR:HB	2.17	0.44
1:B:183:SER:OG	1:B:273:GLN:HB2	2.17	0.44
1:B:119:PRO:HB2	1:B:121:GLU:HG2	1.99	0.44
1:F:744:ASP:O	1:F:746:ASN:N	2.50	0.44
1:F:500:ILE:HG22	1:F:504:ASP:OD1	2.17	0.44
1:F:984:VAL:O	1:F:985:VAL:C	2.55	0.44
1:C:655:PHE:HA	1:C:658:PHE:CB	2.45	0.44
1:F:38:ILE:HD11	1:F:674:LEU:HD11	1.99	0.44
1:F:711:ALA:O	1:F:831:ALA:N	2.50	0.44
1:A:187:TRP:HA	1:A:773:GLN:O	2.16	0.44
1:F:438:ILE:O	1:F:439:GLN:C	2.54	0.44
1:A:671:VAL:HG13	1:A:674:LEU:HD21	1.98	0.44
1:F:1007:GLY:O	1:F:1010:VAL:HB	2.18	0.44
1:C:428:ARG:HA	1:C:494:ALA:CB	2.47	0.44
1:C:518:ARG:O	1:C:522:SER:HB3	2.17	0.44
1:B:806:GLY:O	1:B:807:LYS:HB2	2.18	0.44
1:A:680:PHE:CE2	1:A:712:LEU:HD22	2.52	0.44
1:D:472:ILE:HA	1:D:475:VAL:CG1	2.47	0.44
1:A:210:GLN:CD	1:A:249:ILE:HG23	2.36	0.44
1:E:47:VAL:CG2	1:E:127:ILE:HG13	2.46	0.44
1:E:47:VAL:HG12	1:E:48:SER:N	2.33	0.44
1:D:61:VAL:O	1:D:62:VAL:C	2.54	0.44
1:C:631:LEU:HD13	1:C:637:ARG:NH1	2.33	0.44
1:A:702:PHE:HD1	1:A:850:LEU:HD11	1.82	0.44
1:F:727:LYS:HG2	1:F:729:GLU:OE2	2.17	0.44
1:F:662:MET:O	1:F:663:VAL:HB	2.18	0.44
1:F:502:LYS:C	1:F:504:ASP:H	2.19	0.44
1:D:594:MET:O	1:D:598:LEU:HB2	2.16	0.44
1:A:909:ILE:O	1:A:912:LEU:N	2.42	0.44
1:C:971:ARG:O	1:C:975:MET:HB2	2.18	0.44
1:F:908:VAL:HG13	1:F:930:LEU:HD21	1.99	0.44
1:A:558:ARG:HG2	1:A:558:ARG:HH11	1.83	0.44
1:A:830:PRO:CB	1:A:839:ALA:HB2	2.46	0.44
1:C:237:LYS:O	1:C:238:THR:HG23	2.17	0.44
1:F:194:ASN:OD1	1:F:797:MET:SD	2.75	0.44
1:E:401:ALA:O	1:E:405:LEU:HG	2.18	0.44
1:D:882:VAL:O	1:D:882:VAL:HG12	2.16	0.44
1:B:685:GLN:HG2	1:B:855:GLY:C	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:649:LYS:C	1:E:651:ALA:H	2.21	0.44
1:C:466:ILE:HA	1:C:469:GLN:HG2	1.99	0.44
1:C:912:LEU:O	1:C:913:LEU:C	2.56	0.44
1:E:906:LEU:HG	1:E:1015:LEU:HB3	1.97	0.44
1:D:909:ILE:CG1	1:D:1011:THR:HG21	2.41	0.44
1:E:714:ARG:O	1:E:716:ARG:N	2.49	0.44
1:E:785:LEU:O	1:E:801:ASN:HB3	2.17	0.44
1:C:482:VAL:O	1:C:486:LEU:HB2	2.17	0.44
1:A:1023:PHE:O	1:A:1027:VAL:HG22	2.16	0.44
1:D:462:SER:O	1:D:466:ILE:HG12	2.17	0.44
1:A:568:ASP:OD1	1:A:637:ARG:NH2	2.51	0.44
1:B:847:VAL:HG13	1:B:850:LEU:CD1	2.47	0.44
1:F:1001:ILE:C	1:F:1001:ILE:HD12	2.38	0.44
1:A:838:ASP:C	1:A:840:MET:N	2.71	0.44
1:E:312:ASN:O	1:E:313:LEU:HD23	2.18	0.44
1:D:958:ILE:CG1	1:D:959:VAL:N	2.80	0.44
1:B:308:GLN:HA	1:B:308:GLN:NE2	2.32	0.44
1:D:492:LEU:HD22	1:D:496:MET:CE	2.48	0.44
1:F:445:ILE:O	1:F:445:ILE:HD12	2.16	0.44
1:B:1:MET:O	1:B:4:PHE:HB3	2.18	0.44
1:E:345:GLY:O	1:E:348:ILE:HG13	2.17	0.44
1:A:762:ILE:HD11	1:B:59:ASP:CB	2.47	0.44
1:A:254:ASN:C	1:A:256:ASP:N	2.71	0.44
1:C:428:ARG:HA	1:C:494:ALA:HB1	1.99	0.44
1:F:72:ILE:CG2	1:F:94:PHE:HE1	2.30	0.44
1:D:727:LYS:HB2	1:F:235:ILE:HD12	1.99	0.44
1:A:335:ALA:O	1:A:339:GLU:HB2	2.17	0.44
1:D:998:GLN:HB3	1:D:998:GLN:HE21	1.59	0.44
1:F:527:TYR:CD2	1:F:970:LEU:HG	2.53	0.44
1:C:2:SER:H	2:C:2002:LMT:C6'	2.30	0.44
1:D:413:VAL:O	1:D:417:GLU:HG3	2.17	0.44
1:A:1026:ALA:C	1:A:1028:SER:H	2.20	0.44
1:A:902:LEU:HD13	1:A:1023:PHE:CE1	2.52	0.44
1:D:545:TYR:O	1:D:548:ILE:HB	2.17	0.44
1:D:897:PRO:O	1:D:900:VAL:HG12	2.17	0.44
1:B:720:MET:HB2	1:B:813:PRO:HG2	1.98	0.44
1:C:376:LEU:O	1:C:379:THR:HG22	2.18	0.44
1:D:579:PRO:HG2	1:D:582:SER:OG	2.17	0.44
1:A:910:GLY:HA3	1:A:1007:GLY:O	2.18	0.44
1:A:684:LEU:CD1	1:A:684:LEU:N	2.81	0.44
1:A:103:ALA:O	1:A:106:GLN:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:251:LEU:N	1:F:251:LEU:HD22	2.33	0.44
1:B:458:PHE:O	2:B:2003:LMT:C6'	2.65	0.44
1:A:149:MET:HE3	1:A:153:ASP:HB3	1.99	0.44
1:C:641:GLU:HG3	1:C:650:ARG:NH1	2.33	0.44
1:C:354:VAL:HG21	1:C:982:LEU:CD2	2.45	0.44
1:E:695:LEU:O	1:E:698:ALA:N	2.50	0.44
1:E:713:GLN:NE2	1:E:714:ARG:NE	2.64	0.44
1:E:713:GLN:HB3	1:E:829:GLU:O	2.18	0.44
1:C:45:VAL:HG12	1:C:127:ILE:CG2	2.48	0.44
1:C:47:VAL:HG23	1:C:127:ILE:HG23	1.97	0.44
1:A:790:VAL:HG12	1:A:791:ARG:H	1.82	0.44
1:A:572:LEU:HD12	1:A:666:PHE:O	2.17	0.44
1:F:403:GLY:HA3	1:F:980:PHE:HA	1.99	0.44
1:D:671:VAL:HG11	1:D:674:LEU:HD21	1.99	0.44
1:E:298:ASN:HB3	1:E:301:ASP:HB2	2.00	0.44
1:C:112:GLN:OE1	1:C:113:LEU:HD12	2.17	0.44
1:A:742:LEU:N	1:A:742:LEU:CD1	2.81	0.44
1:F:391:ASN:OD1	1:F:394:THR:HB	2.17	0.44
1:F:789:TYR:CE2	1:F:799:PRO:HG3	2.53	0.44
1:B:751:ILE:HG23	1:B:756:SER:CB	2.47	0.44
1:F:289:ILE:HG12	1:F:289:ILE:O	2.17	0.44
1:F:169:THR:HB	1:F:172:VAL:HG21	1.98	0.44
1:B:883:VAL:HG23	1:B:884:PHE:N	2.33	0.44
1:F:98:THR:O	1:F:100:PRO:HD3	2.18	0.44
2:E:2002:LMT:O6B	2:E:2002:LMT:H1B	2.18	0.44
1:B:527:TYR:O	1:B:528:GLU:C	2.54	0.44
1:B:134:LYS:NZ	1:B:134:LYS:N	2.56	0.44
1:C:882:VAL:O	1:C:886:CYS:SG	2.73	0.44
1:C:277:ILE:HG23	1:C:615:PHE:H	1.82	0.44
1:D:219:LEU:HD13	1:D:232:ALA:HB3	2.00	0.44
1:C:752:ALA:HA	1:C:774:GLY:N	2.23	0.44
1:B:57:VAL:HG11	1:B:88:MET:HB3	1.98	0.44
1:D:545:TYR:HB2	1:D:1019:TRP:HE1	1.81	0.44
1:A:568:ASP:CB	1:A:634:TRP:HZ3	2.25	0.44
1:B:812:SER:CB	1:B:815:LEU:HD21	2.47	0.44
1:F:584:ALA:H	1:F:622:GLN:HG2	1.82	0.44
1:C:370:ILE:O	1:C:373:PRO:HD2	2.18	0.44
1:A:140:VAL:HG22	1:A:325:TYR:HE1	1.83	0.44
1:E:231:ASN:N	1:F:581:GLY:O	2.47	0.44
1:A:58:GLN:OE1	3:A:1201:HOH:O	2.20	0.44
1:D:157:TYR:C	1:D:161:ASN:HD22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:55:GLU:HA	1:E:815:LEU:CD1	2.48	0.44
1:C:507:GLU:HG3	1:C:509:LYS:HB3	1.99	0.44
1:B:578:THR:CG2	1:B:590:VAL:HG21	2.47	0.44
1:C:353:LEU:O	1:C:356:TYR:HB3	2.18	0.44
1:A:681:ASP:OD1	1:A:859:THR:CG2	2.66	0.44
1:C:978:LEU:O	1:C:982:LEU:HD22	2.18	0.44
1:D:909:ILE:HG13	1:D:910:GLY:N	2.32	0.44
1:F:685:GLN:NE2	1:F:857:SER:HB2	2.19	0.44
1:E:658:PHE:C	1:E:660:ASP:H	2.20	0.44
1:C:752:ALA:CA	1:C:774:GLY:H	2.24	0.44
1:F:929:GLY:HA2	1:F:932:THR:HG23	2.00	0.44
1:C:122:VAL:HA	1:C:125:GLN:HB2	2.00	0.44
1:F:500:ILE:CG2	1:F:504:ASP:OD1	2.66	0.44
1:F:140:VAL:HG21	1:F:306:ILE:HD11	2.00	0.44
1:F:912:LEU:HD23	1:F:926:PHE:CZ	2.52	0.44
1:E:960:GLU:O	1:E:964:GLU:HB2	2.18	0.44
1:B:553:ILE:O	1:B:556:PHE:HB2	2.18	0.44
1:E:84:SER:O	1:E:86:GLY:N	2.50	0.44
1:D:26:SER:O	1:D:30:LEU:HG	2.18	0.44
1:E:103:ALA:O	1:E:107:VAL:HG23	2.18	0.44
1:B:197:GLN:HA	1:B:797:MET:SD	2.58	0.44
1:C:453:PHE:CD2	1:C:474:ILE:HG21	2.53	0.44
1:A:246:PHE:O	1:A:249:ILE:HG13	2.17	0.44
1:E:119:PRO:HG2	1:E:122:VAL:HG23	1.99	0.44
1:E:579:PRO:O	1:E:582:SER:OG	2.35	0.44
1:B:223:PRO:HD3	1:C:275:TYR:CD2	2.52	0.44
1:B:348:ILE:CD1	1:B:369:THR:HG23	2.48	0.44
1:F:193:LEU:HD13	1:F:265:VAL:HB	1.99	0.44
1:D:780:MET:HA	1:F:220:GLY:H	1.82	0.44
1:C:500:ILE:HG12	1:C:500:ILE:O	2.18	0.44
1:F:439:GLN:HA	1:F:439:GLN:NE2	2.33	0.44
1:E:805:THR:O	1:E:805:THR:HG23	2.18	0.44
1:A:21:LEU:HA	1:A:21:LEU:HD23	1.90	0.44
1:C:212:VAL:HA	1:C:239:ARG:HD3	1.99	0.44
1:A:679:GLY:HA3	1:A:828:GLY:O	2.18	0.44
1:D:399:VAL:HG11	1:D:987:LEU:HD11	2.00	0.43
1:E:46:GLN:HA	1:E:88:MET:O	2.16	0.43
1:D:423:GLU:CG	1:D:425:LEU:HD11	2.45	0.43
1:B:267:ASP:O	1:B:268:VAL:HG23	2.17	0.43
1:A:637:ARG:HD2	1:A:642:ASN:O	2.17	0.43
1:C:20:MET:CB	1:C:377:LEU:HD12	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:896:ILE:N	1:F:896:ILE:HD12	2.32	0.43
1:A:219:LEU:O	1:A:221:GLY:N	2.51	0.43
1:B:352:PHE:CD1	1:B:365:THR:CG2	3.01	0.43
1:E:637:ARG:HG3	1:E:637:ARG:O	2.18	0.43
1:A:803:PHE:C	1:A:803:PHE:CD1	2.91	0.43
1:C:702:PHE:CE1	1:C:846:ILE:HG13	2.52	0.43
1:F:11:PHE:O	1:F:11:PHE:CD2	2.69	0.43
1:D:314:GLU:HA	1:D:317:MET:HE3	1.99	0.43
1:A:454:LEU:HD23	1:A:475:VAL:HG11	2.00	0.43
1:B:933:THR:HG23	1:B:1009:MET:HE2	2.00	0.43
1:F:432:ARG:HG2	1:F:432:ARG:HH11	1.83	0.43
1:F:480:LEU:O	1:F:484:VAL:HG13	2.18	0.43
1:B:151:LYS:HG3	1:B:286:ALA:O	2.18	0.43
1:C:688:ALA:O	1:C:689:GLY:O	2.36	0.43
1:E:739:GLY:HA3	1:E:793:ASP:OD2	2.18	0.43
1:F:463:THR:HG22	1:F:467:TYR:CE1	2.53	0.43
1:A:213:GLN:NE2	1:A:238:THR:HA	2.32	0.43
1:B:367:ILE:HB	1:B:368:PRO:CD	2.46	0.43
1:D:215:SER:O	1:E:750:SER:OG	2.23	0.43
1:E:674:LEU:HD11	1:E:861:LEU:CD2	2.47	0.43
1:E:303:ALA:HB2	1:E:330:THR:HG21	1.99	0.43
1:E:234:ILE:HG22	1:F:726:TYR:HB2	2.00	0.43
1:E:535:LEU:CD1	1:E:959:VAL:HG23	2.48	0.43
1:D:699:ARG:HD3	1:D:824:MET:SD	2.58	0.43
1:E:848:LYS:HZ3	1:E:848:LYS:HB3	1.82	0.43
1:E:54:ALA:HA	1:E:83:ASN:O	2.18	0.43
1:F:420:MET:HG3	1:F:425:LEU:O	2.18	0.43
1:B:686:ASP:OD2	1:B:689:GLY:N	2.51	0.43
1:D:70:ASN:O	1:D:110:LYS:HE3	2.18	0.43
1:B:314:GLU:N	1:B:315:PRO:CD	2.80	0.43
1:B:405:LEU:HD21	1:B:477:ALA:HB1	2.00	0.43
1:D:1016:ALA:O	1:D:1020:VAL:HG23	2.18	0.43
1:A:298:ASN:ND2	1:A:301:ASP:H	2.16	0.43
1:B:984:VAL:HG12	1:B:1006:ILE:HD11	1.99	0.43
1:A:791:ARG:HG3	1:A:797:MET:HE2	2.01	0.43
1:B:706:ALA:HA	1:B:846:ILE:CD1	2.48	0.43
1:B:630:MET:O	1:B:631:LEU:HG	2.18	0.43
1:D:273:GLN:HG3	1:D:771:TYR:CE2	2.54	0.43
1:F:1011:THR:CB	1:F:1015:LEU:HD23	2.48	0.43
1:C:358:PHE:O	1:C:971:ARG:NH2	2.51	0.43
1:C:452:VAL:HG22	1:C:883:VAL:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:47:VAL:CG2	1:F:127:ILE:HG23	2.48	0.43
1:E:524:THR:O	1:E:527:TYR:N	2.51	0.43
1:F:99:ASP:HB3	1:F:102:ILE:CG1	2.47	0.43
1:A:687:GLN:HE22	1:A:821:VAL:HG21	1.83	0.43
1:D:560:PRO:O	1:D:921:SER:CB	2.66	0.43
1:C:641:GLU:CB	1:C:650:ARG:HH12	2.31	0.43
1:A:329:THR:O	1:A:329:THR:CG2	2.66	0.43
1:D:456:MET:HG2	1:D:875:LEU:HD11	1.98	0.43
1:F:842:ALA:O	1:F:845:GLU:HB2	2.18	0.43
1:D:144:SER:HB3	1:D:149:MET:HB2	2.00	0.43
1:D:792:ASN:ND2	1:D:794:LYS:HG2	2.33	0.43
1:A:65:ILE:HD11	1:A:118:LEU:HD21	2.00	0.43
1:F:548:ILE:HG22	1:F:909:ILE:HD13	1.98	0.43
1:E:854:VAL:CG1	1:E:855:GLY:N	2.81	0.43
1:C:248:ASN:ND2	1:C:248:ASN:N	2.66	0.43
1:F:449:LEU:O	1:F:453:PHE:CD2	2.72	0.43
1:E:396:PHE:CD1	1:E:1001:ILE:HD11	2.53	0.43
1:E:51:GLY:HA3	1:E:754:GLY:HA2	2.00	0.43
1:A:156:ASN:O	1:A:160:SER:CB	2.66	0.43
1:E:584:ALA:O	1:E:588:GLN:HB2	2.19	0.43
1:D:574:ALA:HB1	1:D:594:MET:SD	2.58	0.43
1:B:781:ASN:N	1:B:784:ASP:OD1	2.43	0.43
1:A:827:LEU:HD23	1:A:827:LEU:H	1.84	0.43
1:D:140:VAL:HB	1:D:289:ILE:CD1	2.49	0.43
1:C:29:SER:OG	2:C:2001:LMT:H6D	2.18	0.43
1:A:819:ASN:C	1:C:168:ARG:HH21	2.22	0.43
1:A:655:PHE:C	1:A:657:SER:N	2.71	0.43
1:A:695:LEU:HD22	1:A:824:MET:CE	2.48	0.43
1:D:110:LYS:O	1:D:111:LEU:C	2.55	0.43
1:E:402:ILE:HG22	1:E:403:GLY:N	2.32	0.43
1:C:359:LEU:O	1:C:360:GLN:HG2	2.18	0.43
2:E:2001:LMT:H122	2:E:2002:LMT:C10	2.49	0.43
1:A:261:ARG:HH22	1:B:733:GLU:CD	2.21	0.43
1:E:851:PRO:HB2	1:E:854:VAL:HG23	2.01	0.43
1:C:455:PRO:O	1:C:457:ALA:N	2.51	0.43
1:E:127:ILE:H	1:E:127:ILE:CD1	2.28	0.43
1:E:579:PRO:HG2	1:E:586:ARG:HH22	1.82	0.43
1:C:520:PHE:O	1:C:523:THR:HG22	2.18	0.43
1:E:783:ASP:C	1:E:785:LEU:H	2.21	0.43
1:F:630:MET:C	1:F:631:LEU:HD23	2.38	0.43
1:D:715:VAL:HA	1:D:828:GLY:HA3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:12:ALA:O	1:F:15:ILE:CD1	2.66	0.43
1:E:280:GLN:NE2	1:E:588:GLN:CD	2.72	0.43
1:A:827:LEU:HG	1:A:827:LEU:O	2.19	0.43
1:A:57:VAL:HG22	1:A:62:VAL:HG23	2.01	0.43
1:C:951:LEU:HD13	1:C:964:GLU:HB3	1.99	0.43
1:B:391:ASN:HD21	1:B:469:GLN:NE2	2.17	0.43
1:B:463:THR:O	1:B:467:TYR:CD2	2.71	0.43
1:E:845:GLU:OE2	1:E:848:LYS:HD3	2.18	0.43
1:C:422:GLU:HA	1:C:505:HIS:CE1	2.54	0.43
1:D:488:LEU:O	1:D:491:ALA:HB3	2.19	0.43
1:A:596:GLU:O	1:A:600:GLU:HB2	2.18	0.43
1:E:332:VAL:HG12	1:E:333:VAL:N	2.34	0.43
1:E:765:GLY:O	1:E:766:ARG:C	2.56	0.43
1:B:178:PHE:HB3	2:B:2001:LMT:H52	2.00	0.43
1:C:687:GLN:HG3	1:C:688:ALA:N	2.27	0.43
1:D:616:ASN:O	1:D:619:GLY:N	2.47	0.43
1:A:488:LEU:HD22	1:A:492:LEU:HG	2.00	0.43
1:E:793:ASP:O	1:E:794:LYS:HD3	2.19	0.43
1:A:928:VAL:HG12	1:A:929:GLY:N	2.32	0.43
1:C:277:ILE:HG23	1:C:615:PHE:N	2.33	0.43
1:E:544:ILE:HG21	1:E:1019:TRP:HZ2	1.84	0.43
1:C:637:ARG:HA	1:C:638:PRO:HD2	1.91	0.43
1:F:188:LEU:HA	1:F:266:ALA:CB	2.45	0.43
1:F:188:LEU:HD23	1:F:266:ALA:HB2	2.00	0.43
1:F:84:SER:N	1:F:813:PRO:O	2.48	0.43
1:C:616:ASN:C	1:C:616:ASN:ND2	2.68	0.43
1:B:108:GLN:HB3	1:B:129:VAL:HG11	1.99	0.43
1:B:104:GLN:O	1:B:107:VAL:N	2.45	0.43
1:B:24:GLY:O	1:B:27:ILE:HG13	2.18	0.43
1:F:913:LEU:O	1:F:914:ALA:C	2.57	0.43
1:D:214:ILE:HD12	1:D:214:ILE:O	2.18	0.43
1:E:538:ARG:C	1:E:540:PRO:HD2	2.39	0.43
1:B:363:ARG:NE	1:B:498:LYS:HE3	2.34	0.43
1:C:942:ILE:HD12	1:C:942:ILE:C	2.39	0.43
1:A:532:ALA:HA	1:A:963:ILE:CD1	2.48	0.43
1:A:876:TYR:CZ	1:A:930:LEU:HD23	2.54	0.43
1:C:32:VAL:CG1	1:C:337:ILE:HG12	2.49	0.43
1:C:343:THR:OG1	1:C:344:LEU:N	2.51	0.43
1:C:682:LEU:HB3	1:C:858:TRP:CE3	2.53	0.43
1:E:713:GLN:O	1:E:714:ARG:C	2.57	0.43
1:F:201:GLY:O	1:F:203:VAL:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:713:GLN:HE21	1:D:714:ARG:CG	2.31	0.43
1:A:567:GLU:OE1	1:A:996:GLY:N	2.51	0.43
1:B:572:LEU:HD21	1:B:666:PHE:N	2.33	0.43
1:A:325:TYR:O	1:A:326:PRO:O	2.37	0.43
1:B:658:PHE:O	1:B:660:ASP:N	2.42	0.43
1:E:1016:ALA:O	1:E:1020:VAL:CG2	2.66	0.43
1:F:412:VAL:HG13	1:F:435:MET:CE	2.49	0.43
1:B:480:LEU:HD23	1:B:483:ILE:HD12	2.01	0.43
1:C:725:GLN:NE2	1:C:811:GLY:HA3	2.34	0.43
1:F:185:ARG:CB	1:F:185:ARG:HH11	2.31	0.43
1:F:540:PRO:HA	1:F:543:LEU:HD12	2.01	0.43
1:E:244:GLU:O	1:E:248:ASN:HB2	2.18	0.43
1:E:431:ALA:O	1:E:435:MET:HG2	2.18	0.43
1:A:958:ILE:HD13	1:A:958:ILE:N	2.33	0.43
1:E:61:VAL:CG2	1:E:122:VAL:HG21	2.49	0.43
1:A:445:ILE:HD12	1:A:446:ALA:CA	2.49	0.43
1:F:328:ASP:OD1	1:F:330:THR:HB	2.19	0.43
1:C:896:ILE:O	1:C:897:PRO:C	2.56	0.43
1:F:740:VAL:HG12	1:F:793:ASP:OD1	2.19	0.43
1:B:187:TRP:O	1:B:266:ALA:HB1	2.19	0.43
1:E:978:LEU:HA	1:E:981:ILE:HD11	2.00	0.43
1:E:197:GLN:C	1:E:797:MET:HE2	2.39	0.43
1:D:438:ILE:HG13	1:D:439:GLN:N	2.34	0.43
1:D:49:TYR:CZ	1:F:215:SER:HB3	2.54	0.43
1:D:195:SER:O	1:D:197:GLN:NE2	2.51	0.43
1:D:281:PHE:HE1	1:D:608:SER:HB2	1.81	0.43
1:C:176:GLN:H	1:C:289:ILE:HD11	1.83	0.43
1:D:866:ARG:O	1:D:866:ARG:HG3	2.18	0.43
1:F:555:MET:O	1:F:559:ILE:HG12	2.18	0.43
1:A:936:LEU:HD13	1:A:936:LEU:C	2.38	0.43
1:F:68:GLN:CG	1:F:114:ALA:HB2	2.37	0.43
1:C:454:LEU:CB	1:C:455:PRO:CD	2.97	0.43
1:A:452:VAL:HG22	1:A:883:VAL:HG22	2.00	0.43
1:D:213:GLN:HG3	1:D:213:GLN:O	2.18	0.43
1:B:334:SER:C	1:B:336:SER:H	2.22	0.43
1:D:139:VAL:HG22	1:D:327:TYR:H	1.82	0.43
1:A:555:MET:HB3	1:A:912:LEU:HB3	2.01	0.43
1:B:241:GLN:HE21	1:B:762:ILE:HG22	1.83	0.43
1:A:324:VAL:HG13	1:A:326:PRO:HD3	2.01	0.43
1:B:175:PHE:HB3	1:B:291:ILE:HG23	2.00	0.43
1:A:471:SER:O	1:A:475:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:PHE:C	1:C:175:PHE:CD1	2.92	0.43
1:A:332:VAL:O	1:A:336:SER:N	2.51	0.43
1:E:10:ILE:HD12	1:F:894:TRP:NE1	2.34	0.43
1:E:14:VAL:O	1:E:17:LEU:HB2	2.18	0.43
1:B:686:ASP:CG	1:B:690:VAL:HG22	2.39	0.43
1:C:492:LEU:O	1:C:496:MET:N	2.46	0.43
1:C:453:PHE:CZ	1:C:932:THR:HB	2.49	0.43
1:B:156:ASN:ND2	1:B:182:TYR:HB2	2.34	0.43
1:A:574:ALA:O	1:A:627:ALA:N	2.49	0.43
1:B:731:ASP:OD1	1:B:733:GLU:HB2	2.19	0.43
1:F:314:GLU:C	1:F:316:PHE:H	2.22	0.43
1:F:156:ASN:HD22	1:F:182:TYR:N	2.02	0.43
1:C:188:LEU:HD21	1:C:772:LEU:HD11	2.01	0.43
1:B:47:VAL:HG22	1:B:127:ILE:HG23	2.01	0.43
1:B:246:PHE:HZ	1:B:761:PHE:HB3	1.82	0.43
1:C:933:THR:HA	1:C:936:LEU:HD12	2.01	0.43
1:A:131:LYS:CG	1:A:131:LYS:O	2.53	0.43
1:F:600:GLU:C	1:F:602:GLU:H	2.22	0.43
1:E:353:LEU:C	1:E:355:MET:N	2.70	0.43
1:A:969:ARG:O	1:A:972:PRO:HG2	2.19	0.43
1:A:63:GLN:HE21	1:A:817:ARG:CZ	2.32	0.43
1:D:734:LYS:O	1:D:738:LEU:HD13	2.19	0.43
1:F:930:LEU:HA	1:F:930:LEU:HD23	1.88	0.43
1:E:556:PHE:C	1:E:558:ARG:H	2.23	0.43
1:C:596:GLU:O	1:C:598:LEU:N	2.44	0.43
1:B:360:GLN:HE22	1:B:517:ASN:HD21	1.67	0.43
1:D:1001:ILE:HG23	1:D:1002:GLY:N	2.34	0.43
1:F:67:GLN:C	1:F:67:GLN:CD	2.78	0.43
1:E:1002:GLY:O	1:E:1006:ILE:HG12	2.18	0.43
1:F:277:ILE:HD11	1:F:620:ARG:HH21	1.84	0.43
1:C:49:TYR:N	1:C:86:GLY:O	2.32	0.43
1:C:1024:TYR:O	1:C:1025:VAL:C	2.57	0.42
1:E:909:ILE:CG2	1:E:910:GLY:N	2.82	0.42
1:A:1016:ALA:O	1:A:1020:VAL:HG23	2.19	0.42
1:B:442:LEU:CA	1:B:445:ILE:HG23	2.46	0.42
1:F:82:SER:O	1:F:814:LYS:HA	2.19	0.42
1:D:328:ASP:OD1	1:D:331:PRO:HD3	2.19	0.42
1:C:127:ILE:H	1:C:127:ILE:CD1	2.23	0.42
1:D:367:ILE:HD11	1:D:497:LEU:HD13	2.01	0.42
1:D:64:VAL:HG21	1:D:118:LEU:HD12	2.01	0.42
1:A:446:ALA:CB	1:A:482:VAL:HG21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:364:ALA:HA	1:B:367:ILE:HD13	2.01	0.42
1:D:143:VAL:HG23	1:D:286:ALA:HB2	2.02	0.42
1:B:542:LEU:HG	1:B:1022:LEU:HD21	2.01	0.42
1:B:537:HIS:O	1:B:541:TYR:CD1	2.72	0.42
1:F:972:PRO:O	1:F:976:THR:HG23	2.18	0.42
1:C:730:ILE:HD13	1:C:730:ILE:N	2.25	0.42
1:E:330:THR:N	1:E:331:PRO:CD	2.82	0.42
1:C:875:LEU:O	1:C:879:SER:OG	2.25	0.42
1:B:386:PHE:CZ	2:B:2003:LMT:C8	3.02	0.42
1:E:971:ARG:N	1:E:972:PRO:CD	2.82	0.42
1:D:251:LEU:CD1	1:D:260:VAL:HG12	2.48	0.42
1:D:762:ILE:CG2	1:D:763:ASP:N	2.82	0.42
1:E:34:GLN:HE21	1:E:332:VAL:HG11	1.83	0.42
1:B:763:ASP:O	1:B:764:ARG:C	2.57	0.42
1:A:911:ALA:O	1:A:926:PHE:HE1	2.02	0.42
1:F:436:GLY:CA	2:F:2001:LMT:O4'	2.62	0.42
1:C:344:LEU:HD13	1:C:344:LEU:C	2.40	0.42
1:C:172:VAL:HG22	1:C:291:ILE:CD1	2.50	0.42
1:C:228:GLN:OE1	1:C:230:LEU:HB3	2.20	0.42
1:C:1009:MET:CA	1:C:1009:MET:CE	2.93	0.42
1:A:573:PHE:HE1	1:A:628:PHE:CE1	2.38	0.42
1:A:850:LEU:O	1:A:852:LYS:N	2.52	0.42
1:E:215:SER:HB2	1:F:750:SER:OG	2.20	0.42
1:F:502:LYS:C	1:F:504:ASP:N	2.73	0.42
1:A:167:SER:HB3	1:B:70:ASN:HB2	2.00	0.42
1:D:886:CYS:O	1:D:889:ALA:N	2.52	0.42
1:B:713:GLN:HE22	1:B:832:PRO:HD3	1.83	0.42
1:B:415:ASN:ND2	1:B:418:ARG:NH1	2.67	0.42
1:D:587:THR:C	1:D:589:VAL:N	2.72	0.42
1:D:30:LEU:HD21	1:D:384:ALA:CB	2.49	0.42
1:F:118:LEU:HD23	1:F:118:LEU:N	2.35	0.42
1:C:40:PRO:HA	1:C:41:PRO:HD3	1.97	0.42
1:B:20:MET:HG2	1:B:377:LEU:HD12	2.00	0.42
1:D:186:ILE:N	1:D:186:ILE:HD12	2.34	0.42
1:D:984:VAL:O	1:D:987:LEU:HB2	2.18	0.42
1:C:552:MET:SD	1:C:905:PRO:HA	2.59	0.42
1:B:311:ALA:O	1:B:315:PRO:HD3	2.19	0.42
1:C:406:VAL:O	1:C:407:ASP:O	2.37	0.42
1:B:449:LEU:HB2	1:B:478:MET:HE2	2.00	0.42
1:E:716:ARG:HG2	1:E:827:LEU:HB2	2.01	0.42
1:E:62:VAL:HG12	1:E:66:GLU:OE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:ASN:HD21	1:B:608:SER:CB	2.26	0.42
1:D:234:ILE:HA	1:E:726:TYR:O	2.19	0.42
1:C:46:GLN:HE21	1:C:89:THR:HG1	1.66	0.42
1:D:424:GLY:C	1:D:425:LEU:HD12	2.38	0.42
1:F:201:GLY:O	1:F:202:ASP:C	2.57	0.42
1:F:328:ASP:O	1:F:630:MET:HE3	2.19	0.42
1:D:155:SER:O	1:D:158:ILE:HB	2.19	0.42
1:F:971:ARG:HH11	1:F:971:ARG:HG3	1.84	0.42
1:E:629:ILE:CD1	1:E:629:ILE:N	2.82	0.42
1:B:212:VAL:HG13	1:C:746:ASN:ND2	2.34	0.42
1:F:400:LEU:HD11	1:F:1001:ILE:HD11	2.01	0.42
1:F:839:ALA:O	1:F:843:VAL:HG23	2.19	0.42
1:D:672:LEU:O	1:D:673:GLU:C	2.58	0.42
1:E:143:VAL:CG2	1:E:144:SER:N	2.81	0.42
1:B:395:MET:O	1:B:396:PHE:C	2.57	0.42
1:A:891:TYR:O	1:A:892:GLU:C	2.56	0.42
1:B:508:HIS:O	1:B:510:GLY:N	2.52	0.42
1:B:420:MET:O	1:B:424:GLY:HA2	2.19	0.42
1:F:366:LEU:O	1:F:370:ILE:HG12	2.18	0.42
1:A:547:VAL:O	1:A:550:ALA:HB3	2.19	0.42
1:E:428:ARG:O	1:E:432:ARG:HG2	2.19	0.42
1:C:868:SER:OG	1:C:924:VAL:HG12	2.19	0.42
1:C:682:LEU:HD23	1:C:682:LEU:N	2.34	0.42
1:E:684:LEU:HA	1:E:855:GLY:O	2.19	0.42
1:E:714:ARG:HD2	1:E:829:GLU:OE2	2.20	0.42
1:E:698:ALA:CB	1:E:854:VAL:HG21	2.48	0.42
1:D:943:LEU:HD13	1:D:969:ARG:NE	2.33	0.42
1:A:13:TRP:O	1:A:16:ALA:HB3	2.19	0.42
1:B:757:TYR:HB2	1:B:771:TYR:CZ	2.54	0.42
1:C:57:VAL:CG1	1:C:88:MET:HB3	2.49	0.42
1:D:367:ILE:CB	1:D:368:PRO:CD	2.96	0.42
1:B:193:LEU:HG	1:B:198:LEU:O	2.19	0.42
1:A:740:VAL:HG13	1:A:790:VAL:HG11	2.02	0.42
1:D:462:SER:O	1:D:465:VAL:HB	2.19	0.42
1:F:283:GLY:N	1:F:595:ARG:CZ	2.83	0.42
1:C:438:ILE:O	1:C:441:ALA:N	2.46	0.42
1:B:219:LEU:HB2	1:B:234:ILE:CG2	2.49	0.42
1:B:573:PHE:CZ	1:B:668:PRO:HB3	2.54	0.42
1:E:261:ARG:CB	1:E:263:LYS:HG2	2.49	0.42
1:E:559:ILE:HD13	1:E:560:PRO:HD2	2.00	0.42
1:B:129:VAL:C	1:B:130:THR:HG23	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:209:ALA:HB1	1:C:742:LEU:HB3	2.00	0.42
1:B:395:MET:O	1:B:398:MET:HB2	2.19	0.42
1:E:577:GLN:HB3	1:E:662:MET:HB2	2.01	0.42
1:F:594:MET:O	1:F:598:LEU:CB	2.67	0.42
1:F:421:ALA:O	1:F:424:GLY:N	2.51	0.42
1:C:146:ASP:OD1	1:C:148:SER:HB3	2.19	0.42
1:D:408:ASP:OD1	1:D:408:ASP:N	2.50	0.42
1:F:483:ILE:HD13	1:F:483:ILE:HA	1.92	0.42
1:B:639:GLY:HA3	1:B:641:GLU:OE2	2.20	0.42
1:A:785:LEU:N	1:A:785:LEU:HD12	2.35	0.42
1:A:339:GLU:O	1:A:343:THR:CG2	2.68	0.42
1:C:563:PHE:O	1:C:923:ASP:HB2	2.20	0.42
1:B:714:ARG:O	1:B:716:ARG:NH1	2.51	0.42
1:D:954:GLN:CG	1:D:955:GLY:N	2.82	0.42
1:E:64:VAL:CG2	1:E:118:LEU:CD2	2.91	0.42
1:D:234:ILE:CD1	1:E:753:TRP:CZ3	3.02	0.42
1:B:221:GLY:O	1:B:222:LEU:HD23	2.19	0.42
1:C:36:PRO:HG2	1:C:38:ILE:CG2	2.50	0.42
1:F:709:ASN:HA	1:F:710:PRO:HD3	1.92	0.42
1:C:595:ARG:HG2	1:C:595:ARG:HH11	1.84	0.42
1:F:310:ILE:HD12	1:F:311:ALA:N	2.34	0.42
1:A:150:THR:HG22	1:A:153:ASP:CG	2.39	0.42
1:F:525:HIS:O	1:F:529:ARG:HB2	2.19	0.42
1:E:120:GLN:O	1:E:124:ARG:HG3	2.19	0.42
1:E:251:LEU:HD12	1:E:251:LEU:N	2.33	0.42
1:B:868:SER:O	1:B:871:GLN:HG3	2.20	0.42
1:C:399:VAL:C	1:C:401:ALA:H	2.23	0.42
1:B:48:SER:HA	1:B:87:SER:HA	2.00	0.42
1:A:780:MET:HE2	1:C:225:VAL:HG22	2.00	0.42
1:F:467:TYR:OH	1:F:875:LEU:HD22	2.20	0.42
1:B:126:GLY:O	1:B:127:ILE:HB	2.19	0.42
1:F:283:GLY:N	1:F:595:ARG:NH2	2.66	0.42
1:C:262:LEU:O	1:C:265:VAL:HG22	2.19	0.42
1:E:761:PHE:CE1	1:E:768:LYS:HB2	2.55	0.42
1:C:445:ILE:HG13	1:C:446:ALA:H	1.85	0.42
1:D:731:ASP:O	1:D:733:GLU:N	2.53	0.42
1:D:254:ASN:O	1:D:254:ASN:CG	2.58	0.42
1:B:34:GLN:O	1:B:392:THR:HB	2.20	0.42
1:A:254:ASN:O	1:A:256:ASP:N	2.53	0.42
1:E:350:LEU:O	1:E:354:VAL:HG13	2.20	0.42
1:E:943:LEU:HA	1:E:943:LEU:HD23	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:884:PHE:HB2	1:A:901:MET:HE2	2.00	0.42
1:A:704:MET:O	1:A:707:ALA:HB3	2.19	0.42
1:E:99:ASP:HA	1:E:100:PRO:HD3	1.83	0.42
1:E:489:THR:OG1	1:E:490:PRO:CD	2.68	0.42
1:D:537:HIS:O	1:D:538:ARG:CB	2.66	0.42
1:E:859:THR:O	1:E:860:GLY:C	2.56	0.42
1:C:1011:THR:O	1:C:1015:LEU:HB2	2.20	0.42
1:C:466:ILE:C	1:C:466:ILE:HD12	2.40	0.42
1:E:595:ARG:O	1:E:599:LEU:HD13	2.19	0.42
1:B:311:ALA:C	1:B:313:LEU:H	2.23	0.42
1:A:1020:VAL:N	1:A:1021:PRO:HD2	2.34	0.42
1:A:186:ILE:HD12	1:A:207:ILE:CD1	2.49	0.42
1:D:915:THR:HG21	1:D:926:PHE:HD1	1.82	0.42
1:F:58:GLN:O	1:F:62:VAL:HG12	2.19	0.42
1:B:803:PHE:CD1	1:B:803:PHE:C	2.93	0.42
1:A:449:LEU:HD12	1:A:478:MET:HG3	2.00	0.42
1:B:568:ASP:OD2	1:B:568:ASP:C	2.58	0.42
1:B:573:PHE:HB2	1:B:666:PHE:CE1	2.55	0.42
1:E:671:VAL:HG23	1:E:674:LEU:CB	2.45	0.42
1:A:485:ALA:O	1:A:490:PRO:HD3	2.19	0.42
1:A:489:THR:HB	1:A:490:PRO:CD	2.48	0.42
1:D:298:ASN:HB3	1:D:301:ASP:HB2	2.01	0.42
1:C:16:ALA:O	1:C:20:MET:HG3	2.19	0.42
1:C:372:VAL:HB	1:C:373:PRO:HD3	2.02	0.42
1:C:20:MET:CG	1:C:377:LEU:HD12	2.49	0.42
1:F:966:CYS:SG	1:F:1021:PRO:CG	3.07	0.42
1:F:198:LEU:HD12	1:F:265:VAL:HG11	2.02	0.42
1:C:197:GLN:HA	1:C:797:MET:SD	2.59	0.42
1:A:838:ASP:O	1:A:840:MET:N	2.52	0.42
1:C:969:ARG:C	1:C:972:PRO:HD2	2.39	0.42
1:F:404:LEU:HD21	1:F:936:LEU:HD21	2.01	0.42
1:C:683:PHE:CE1	1:C:825:GLU:HB2	2.54	0.42
1:D:428:ARG:O	1:D:432:ARG:HG3	2.20	0.42
1:E:639:GLY:HA3	1:E:641:GLU:OE2	2.19	0.42
1:A:530:GLY:O	1:A:534:ILE:HG12	2.18	0.42
1:E:971:ARG:O	1:E:975:MET:HG3	2.20	0.42
1:A:699:ARG:CZ	1:A:824:MET:SD	3.08	0.42
1:D:576:VAL:O	1:D:577:GLN:HG2	2.20	0.42
1:D:5:PHE:CZ	1:D:487:ILE:HD13	2.55	0.42
1:A:576:VAL:HG21	1:A:591:VAL:HG12	2.00	0.42
1:E:509:LYS:HG3	1:E:517:ASN:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:612:VAL:CG1	1:F:626:MET:HG3	2.50	0.42
1:A:587:THR:C	1:A:589:VAL:N	2.73	0.42
1:C:428:ARG:HG2	1:C:428:ARG:NH1	2.35	0.42
1:F:49:TYR:CG	1:F:52:ALA:HB2	2.55	0.42
1:D:235:ILE:HG13	1:D:235:ILE:O	2.20	0.42
1:D:686:ASP:CG	1:D:690:VAL:HG22	2.39	0.42
1:E:742:LEU:HD12	1:E:742:LEU:O	2.20	0.42
1:D:943:LEU:HD13	1:D:969:ARG:CZ	2.50	0.42
1:D:61:VAL:HG12	1:D:62:VAL:N	2.34	0.42
1:F:600:GLU:CG	1:F:601:LYS:N	2.80	0.42
1:C:1001:ILE:O	1:C:1005:VAL:HG22	2.18	0.42
1:C:693:GLU:O	1:C:696:LEU:HB2	2.19	0.42
1:C:727:LYS:HD2	1:C:809:GLU:CD	2.40	0.42
1:E:631:LEU:HD21	1:E:647:LEU:HD22	2.01	0.42
1:F:779:ARG:HG2	1:F:779:ARG:HH11	1.85	0.42
1:B:214:ILE:CG2	1:C:746:ASN:ND2	2.82	0.42
1:D:139:VAL:HG12	1:D:290:ALA:HA	2.02	0.42
1:D:630:MET:HA	1:D:630:MET:HE3	2.01	0.42
1:B:551:GLY:O	1:B:555:MET:HB2	2.20	0.42
1:F:293:LEU:HD23	1:F:297:ALA:HB3	2.02	0.42
1:A:685:GLN:HB3	1:A:821:VAL:CG1	2.50	0.42
1:A:351:VAL:HG22	1:A:979:ALA:O	2.19	0.42
1:D:537:HIS:O	1:D:538:ARG:HB3	2.19	0.42
1:E:177:VAL:HA	1:E:288:GLY:O	2.20	0.42
1:E:835:SER:O	1:E:838:ASP:N	2.52	0.42
1:F:554:TRP:CZ2	1:F:558:ARG:HD3	2.55	0.42
1:A:352:PHE:CG	1:A:352:PHE:O	2.72	0.42
1:A:463:THR:HG21	1:A:869:GLY:C	2.40	0.42
1:B:155:SER:O	1:B:159:VAL:HG22	2.20	0.42
1:B:375:VAL:HG11	1:B:405:LEU:CD1	2.34	0.42
1:F:732:ASP:HB3	1:F:736:SER:CB	2.46	0.42
1:B:185:ARG:CZ	1:B:771:TYR:HB3	2.49	0.42
1:A:470:PHE:CZ	1:A:928:VAL:HG13	2.55	0.42
1:C:753:TRP:CD1	1:C:779:ARG:HB2	2.55	0.42
1:A:445:ILE:C	1:A:445:ILE:HD12	2.39	0.42
1:A:438:ILE:O	1:A:439:GLN:C	2.58	0.42
1:E:330:THR:O	1:E:334:SER:HB2	2.20	0.42
1:E:249:ILE:HD12	1:E:249:ILE:C	2.41	0.42
1:D:439:GLN:HG3	1:D:486:LEU:HD22	2.02	0.42
1:D:127:ILE:HG22	1:D:128:ARG:N	2.34	0.42
1:A:214:ILE:HG12	1:A:237:LYS:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:214:ILE:HG12	1:F:237:LYS:CB	2.49	0.42
1:A:884:PHE:HB2	1:A:901:MET:CE	2.50	0.42
1:D:362:PHE:H	1:D:362:PHE:HD2	1.68	0.42
1:A:856:TYR:CD2	1:A:856:TYR:N	2.88	0.42
1:A:277:ILE:HD12	1:A:615:PHE:HB2	2.02	0.42
1:D:208:GLN:HG3	1:D:758:VAL:CG1	2.50	0.42
1:F:561:THR:OG1	1:F:837:GLY:HA3	2.20	0.42
1:B:253:VAL:HG22	1:B:259:GLN:HG2	2.02	0.42
1:B:532:ALA:O	1:B:536:LYS:HG3	2.19	0.42
1:B:402:ILE:HA	1:B:402:ILE:HD13	1.88	0.42
1:C:383:LEU:HD22	1:C:388:PHE:HB3	2.02	0.42
1:B:178:PHE:HB3	2:B:2001:LMT:H61	2.02	0.42
1:C:230:LEU:HG	1:C:231:ASN:N	2.34	0.42
1:C:520:PHE:CZ	1:C:970:LEU:CD1	3.03	0.42
1:D:227:GLY:O	1:D:228:GLN:C	2.58	0.42
1:D:493:CYS:HA	1:D:497:LEU:HD22	2.01	0.42
1:A:740:VAL:CG1	1:A:745:ILE:HG12	2.50	0.42
1:E:261:ARG:HB2	1:E:264:ASP:OD2	2.19	0.42
1:D:631:LEU:HD23	1:D:637:ARG:NH1	2.34	0.42
1:A:683:PHE:CE1	1:A:825:GLU:HG3	2.55	0.42
1:C:659:LYS:HB2	1:C:659:LYS:HE2	1.92	0.42
1:D:595:ARG:HG2	1:D:609:VAL:HB	2.02	0.42
1:E:951:LEU:HD13	1:E:964:GLU:HB3	2.01	0.42
1:A:918:ARG:NH2	1:A:999:HIS:HB3	2.35	0.42
1:B:330:THR:N	1:B:331:PRO:CD	2.82	0.42
1:E:509:LYS:HB2	1:E:514:GLY:HA2	2.01	0.42
1:B:891:TYR:OH	1:B:945:VAL:HB	2.19	0.42
1:C:357:LEU:CD2	1:C:357:LEU:C	2.86	0.41
1:B:157:TYR:O	1:B:160:SER:N	2.50	0.41
1:B:830:PRO:HB3	1:B:839:ALA:HB2	2.01	0.41
1:B:180:SER:HB3	2:B:2001:LMT:H4'	2.01	0.41
1:E:679:GLY:HA2	1:E:836:SER:OG	2.20	0.41
1:A:364:ALA:O	1:A:368:PRO:HD3	2.20	0.41
1:D:218:GLN:CA	1:D:234:ILE:HG13	2.49	0.41
1:F:874:ALA:O	1:F:875:LEU:C	2.56	0.41
1:B:709:ASN:C	1:B:711:ALA:H	2.23	0.41
1:D:780:MET:CE	1:F:220:GLY:HA2	2.50	0.41
1:C:971:ARG:N	1:C:972:PRO:CD	2.84	0.41
1:D:843:VAL:C	1:D:845:GLU:H	2.23	0.41
1:C:330:THR:N	1:C:331:PRO:CD	2.82	0.41
1:E:277:ILE:N	1:E:277:ILE:HD12	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:184:MET:HE3	1:C:269:GLY:O	2.19	0.41
1:A:33:ASN:ND2	1:A:391:ASN:HB3	2.33	0.41
1:D:946:GLU:O	1:D:949:LYS:HB3	2.20	0.41
1:B:880:LEU:O	1:B:883:VAL:HG22	2.20	0.41
1:C:926:PHE:O	1:C:929:GLY:N	2.53	0.41
1:C:876:TYR:OH	1:C:930:LEU:HD12	2.19	0.41
1:D:469:GLN:HA	1:D:472:ILE:CD1	2.50	0.41
1:F:498:LYS:H	1:F:498:LYS:CD	2.33	0.41
1:B:178:PHE:CG	2:B:2001:LMT:H61	2.55	0.41
1:F:685:GLN:NE2	1:F:857:SER:CB	2.81	0.41
1:A:372:VAL:HB	1:A:373:PRO:HD3	2.01	0.41
1:E:64:VAL:HG22	1:E:118:LEU:HD23	2.00	0.41
1:A:792:ASN:ND2	1:A:796:GLU:HB2	2.25	0.41
1:B:740:VAL:CG2	1:B:745:ILE:HD11	2.42	0.41
1:F:599:LEU:O	1:F:599:LEU:HD23	2.20	0.41
1:C:888:ALA:HB2	1:C:897:PRO:HG3	2.02	0.41
1:A:438:ILE:HG13	1:A:439:GLN:N	2.34	0.41
1:D:273:GLN:CG	1:D:771:TYR:HE2	2.32	0.41
1:E:353:LEU:C	1:E:355:MET:H	2.24	0.41
1:D:139:VAL:CG2	1:D:327:TYR:H	2.33	0.41
1:A:163:GLN:O	1:A:164:ASP:C	2.57	0.41
1:B:909:ILE:CG2	1:B:910:GLY:N	2.83	0.41
1:E:527:TYR:CE1	1:E:970:LEU:HD23	2.55	0.41
1:A:895:SER:O	1:A:896:ILE:C	2.58	0.41
1:D:13:TRP:O	1:D:16:ALA:HB3	2.19	0.41
1:B:539:ALA:O	1:B:540:PRO:C	2.59	0.41
1:B:672:LEU:O	1:B:674:LEU:N	2.54	0.41
1:B:726:TYR:OH	1:B:806:GLY:HA3	2.20	0.41
1:F:479:ALA:O	1:F:480:LEU:C	2.58	0.41
1:C:545:TYR:C	1:C:547:VAL:N	2.73	0.41
1:B:157:TYR:O	1:B:158:ILE:C	2.58	0.41
1:B:314:GLU:HA	1:B:317:MET:CE	2.47	0.41
1:E:904:VAL:HB	1:E:905:PRO:HD3	2.02	0.41
1:B:829:GLU:CB	1:B:830:PRO:CD	2.96	0.41
1:D:569:GLN:HA	1:D:634:TRP:CZ2	2.55	0.41
1:D:228:GLN:CG	1:E:780:MET:HE3	2.48	0.41
1:A:647:LEU:C	1:A:647:LEU:HD23	2.41	0.41
1:C:418:ARG:O	1:C:421:ALA:HB3	2.20	0.41
1:A:649:LYS:CE	1:A:652:GLN:HG2	2.50	0.41
1:B:70:ASN:N	1:B:70:ASN:ND2	2.68	0.41
1:A:971:ARG:N	1:A:972:PRO:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:716:ARG:HD3	1:A:827:LEU:O	2.20	0.41
1:F:981:ILE:HG23	1:F:1006:ILE:HD12	2.01	0.41
1:E:527:TYR:CE2	1:E:1017:ILE:HB	2.54	0.41
1:A:394:THR:HG23	1:A:469:GLN:HB3	2.02	0.41
1:D:404:LEU:HB3	1:D:478:MET:HE2	2.02	0.41
1:A:134:LYS:O	1:A:134:LYS:HD3	2.20	0.41
1:C:332:VAL:HG11	1:C:569:GLN:HG2	2.02	0.41
1:B:611:THR:HG22	1:B:627:ALA:CB	2.50	0.41
1:A:861:LEU:CD2	1:A:861:LEU:N	2.83	0.41
1:D:357:LEU:HD12	1:D:357:LEU:O	2.20	0.41
1:E:906:LEU:HG	1:E:1015:LEU:HD13	2.02	0.41
1:C:344:LEU:HA	1:C:399:VAL:HG22	2.01	0.41
1:F:958:ILE:HG23	1:F:1024:TYR:HE2	1.86	0.41
1:F:544:ILE:O	1:F:547:VAL:N	2.53	0.41
1:A:367:ILE:HD11	1:A:497:LEU:HD13	2.01	0.41
1:F:407:ASP:O	1:F:410:ILE:HG13	2.20	0.41
1:F:844:GLU:OE2	1:F:866:ARG:NH2	2.52	0.41
1:A:714:ARG:O	1:A:716:ARG:N	2.52	0.41
1:D:17:LEU:HD23	1:D:20:MET:HE3	2.03	0.41
1:F:273:GLN:NE2	1:F:769:ARG:HE	2.19	0.41
1:A:821:VAL:O	1:A:822:PRO:C	2.58	0.41
1:F:669:PRO:CG	1:F:861:LEU:HD11	2.50	0.41
1:C:993:ALA:O	1:C:994:GLY:C	2.58	0.41
1:F:185:ARG:CA	1:F:185:ARG:HH11	2.34	0.41
1:F:792:ASN:HB3	1:F:796:GLU:N	2.36	0.41
1:C:53:SER:OG	1:C:55:GLU:HG2	2.20	0.41
1:C:789:TYR:CE2	1:C:799:PRO:HG3	2.55	0.41
1:B:254:ASN:N	1:B:258:SER:O	2.52	0.41
1:E:946:GLU:O	1:E:950:GLU:HG3	2.19	0.41
1:B:486:LEU:HA	1:B:486:LEU:HD12	1.82	0.41
1:A:83:ASN:ND2	1:A:83:ASN:N	2.68	0.41
1:B:158:ILE:O	1:B:163:GLN:N	2.54	0.41
1:E:713:GLN:HG2	1:E:714:ARG:HG3	2.03	0.41
1:E:781:ASN:O	1:E:782:PRO:C	2.58	0.41
1:B:249:ILE:CD1	1:B:262:LEU:HD12	2.48	0.41
1:D:664:PHE:HD2	1:D:666:PHE:CD2	2.37	0.41
1:B:847:VAL:HG13	1:B:850:LEU:HD12	2.02	0.41
1:F:410:ILE:CG1	1:F:976:THR:HG22	2.47	0.41
1:E:53:SER:N	1:E:56:THR:OG1	2.54	0.41
1:A:701:LYS:HD3	1:A:851:PRO:HD3	2.02	0.41
1:E:952:HIS:CE1	1:E:958:ILE:HD13	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:501:GLU:O	1:F:504:ASP:HB2	2.20	0.41
1:A:164:ASP:HB2	1:A:165:PRO:CD	2.48	0.41
1:E:763:ASP:OD2	1:E:763:ASP:C	2.59	0.41
1:E:197:GLN:HE21	1:E:252:LYS:HZ3	1.66	0.41
1:F:980:PHE:O	1:F:983:GLY:N	2.53	0.41
1:C:655:PHE:HD1	1:C:658:PHE:HB3	1.83	0.41
1:D:591:VAL:O	1:D:595:ARG:HB2	2.20	0.41
1:D:324:VAL:CG2	1:D:325:TYR:N	2.82	0.41
1:D:404:LEU:HD21	1:D:936:LEU:HG	2.01	0.41
1:D:789:TYR:HA	1:D:799:PRO:HA	2.02	0.41
1:F:298:ASN:O	1:F:301:ASP:N	2.53	0.41
1:A:951:LEU:C	1:A:953:GLU:H	2.24	0.41
1:C:462:SER:OG	1:C:864:GLU:CG	2.69	0.41
1:A:352:PHE:CD1	1:A:365:THR:HG22	2.54	0.41
1:D:24:GLY:O	1:D:28:LEU:HG	2.21	0.41
1:E:913:LEU:O	1:E:914:ALA:C	2.58	0.41
1:D:851:PRO:O	1:D:852:LYS:C	2.58	0.41
1:A:810:TYR:CG	1:D:701:LYS:HE3	2.56	0.41
1:D:907:GLY:O	1:D:1008:GLY:HA2	2.20	0.41
1:E:949:LYS:O	1:E:953:GLU:HB2	2.20	0.41
1:A:780:MET:HE3	1:C:228:GLN:CG	2.50	0.41
1:C:47:VAL:CG1	1:C:122:VAL:HG13	2.50	0.41
1:D:371:ALA:O	1:D:372:VAL:C	2.58	0.41
1:B:49:TYR:O	1:B:50:PRO:C	2.59	0.41
1:C:573:PHE:O	1:C:665:ALA:HA	2.20	0.41
1:E:544:ILE:HD13	1:E:544:ILE:O	2.21	0.41
1:C:745:ILE:C	1:C:747:SER:N	2.74	0.41
1:D:326:PRO:O	1:D:630:MET:HB2	2.20	0.41
1:A:164:ASP:O	1:A:167:SER:N	2.54	0.41
1:E:249:ILE:O	1:E:249:ILE:HD12	2.20	0.41
1:F:306:ILE:HD13	1:F:306:ILE:C	2.41	0.41
1:E:312:ASN:HD22	1:E:312:ASN:N	2.17	0.41
1:B:592:ASP:O	1:B:594:MET:N	2.53	0.41
1:D:259:GLN:NE2	1:E:733:GLU:OE1	2.43	0.41
1:B:230:LEU:HD12	1:B:230:LEU:N	2.35	0.41
1:D:356:TYR:CE1	1:D:513:PHE:HZ	2.39	0.41
1:B:559:ILE:CD1	1:B:921:SER:HA	2.50	0.41
1:C:133:VAL:O	1:C:292:LYS:HD3	2.21	0.41
1:B:164:ASP:N	1:B:165:PRO:HD2	2.36	0.41
1:C:258:SER:O	1:C:259:GLN:HG3	2.21	0.41
1:A:53:SER:O	1:A:54:ALA:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:2002:LMT:C3'	2:F:2002:LMT:O5B	2.53	0.41
1:D:745:ILE:O	1:D:749:VAL:CG2	2.55	0.41
1:F:572:LEU:HD23	1:F:629:ILE:HG13	2.02	0.41
1:D:1027:VAL:HG23	1:D:1028:SER:N	2.36	0.41
1:F:520:PHE:HA	1:F:523:THR:CG2	2.48	0.41
1:F:463:THR:HG22	1:F:467:TYR:CZ	2.55	0.41
1:F:456:MET:HE2	1:F:467:TYR:CA	2.51	0.41
1:D:57:VAL:CG1	1:D:82:SER:HB3	2.43	0.41
1:A:572:LEU:HD12	1:A:573:PHE:H	1.84	0.41
1:B:188:LEU:CD2	1:B:772:LEU:HD11	2.50	0.41
1:C:268:VAL:O	1:C:268:VAL:HG12	2.21	0.41
1:E:72:ILE:HG13	1:E:75:LEU:HB2	2.03	0.41
1:B:987:LEU:O	1:B:999:HIS:HD2	2.03	0.41
1:A:896:ILE:N	1:A:897:PRO:CD	2.83	0.41
1:C:616:ASN:ND2	1:C:618:ALA:N	2.68	0.41
1:C:705:LEU:O	1:C:709:ASN:HB2	2.20	0.41
1:E:732:ASP:O	1:E:735:ALA:HB3	2.20	0.41
1:F:46:GLN:HG2	1:F:89:THR:HG23	2.02	0.41
1:E:699:ARG:HD3	1:E:826:ILE:HD11	2.02	0.41
1:B:951:LEU:HD21	1:B:968:MET:HE1	2.02	0.41
1:D:766:ARG:CG	1:D:767:VAL:N	2.84	0.41
1:A:193:LEU:CD2	1:A:198:LEU:O	2.68	0.41
1:F:612:VAL:HG12	1:F:626:MET:HG3	2.01	0.41
1:D:527:TYR:HE2	1:D:1017:ILE:HG13	1.84	0.41
1:E:117:LEU:N	1:E:117:LEU:CD1	2.84	0.41
1:F:763:ASP:C	1:F:763:ASP:OD2	2.59	0.41
1:E:534:ILE:CD1	1:E:1018:PHE:HB3	2.51	0.41
1:C:575:GLN:HB3	1:C:664:PHE:HB2	2.02	0.41
1:D:4:PHE:O	1:D:8:ARG:NH1	2.52	0.41
1:B:13:TRP:O	1:B:17:LEU:HB2	2.20	0.41
1:B:21:LEU:HD11	1:B:25:LEU:HD11	2.02	0.41
1:D:21:LEU:HD13	1:D:21:LEU:C	2.41	0.41
1:C:978:LEU:O	1:C:981:ILE:HB	2.21	0.41
1:B:314:GLU:OE2	1:B:323:VAL:CG2	2.69	0.41
1:A:958:ILE:CG1	1:A:959:VAL:N	2.83	0.41
1:D:906:LEU:CD1	1:D:1016:ALA:HB2	2.51	0.41
1:C:166:LEU:HA	1:C:169:THR:OG1	2.20	0.41
1:F:563:PHE:CD2	1:F:564:LEU:CD2	3.04	0.41
1:D:423:GLU:C	1:D:425:LEU:HD12	2.41	0.41
1:D:780:MET:O	1:F:230:LEU:HD23	2.21	0.41
1:C:52:ALA:HB1	1:C:56:THR:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:724:PRO:HA	1:F:810:TYR:HB3	2.02	0.41
1:B:594:MET:O	1:B:597:TYR:HB3	2.19	0.41
1:E:847:VAL:O	1:E:850:LEU:HB2	2.21	0.41
1:E:414:GLU:CD	1:E:972:PRO:HG3	2.41	0.41
1:B:407:ASP:O	1:B:411:VAL:HG13	2.20	0.41
1:E:120:GLN:OE1	1:E:124:ARG:HD2	2.20	0.41
1:F:35:TYR:C	1:F:36:PRO:O	2.57	0.41
1:B:530:GLY:O	1:B:533:SER:HB3	2.19	0.41
1:C:1002:GLY:O	1:C:1006:ILE:HG12	2.21	0.41
1:C:927:GLN:O	1:C:928:VAL:C	2.58	0.41
1:F:900:VAL:O	1:F:901:MET:C	2.57	0.41
1:E:62:VAL:HG21	1:E:82:SER:OG	2.21	0.41
1:C:578:THR:O	1:C:623:SER:HB2	2.21	0.41
1:D:224:ALA:HB1	1:E:780:MET:HE1	2.03	0.41
1:F:453:PHE:O	1:F:456:MET:HG2	2.20	0.41
1:A:791:ARG:HE	1:A:797:MET:CE	2.32	0.41
1:A:789:TYR:CD1	1:A:797:MET:HB3	2.56	0.41
1:A:449:LEU:CD1	1:A:449:LEU:C	2.88	0.41
1:E:541:TYR:HA	1:E:544:ILE:CG2	2.42	0.41
1:B:234:ILE:HG13	1:B:234:ILE:O	2.21	0.41
1:D:895:SER:OG	1:D:896:ILE:N	2.54	0.41
1:B:634:TRP:CE3	1:B:993:ALA:HB2	2.56	0.41
1:E:259:GLN:HG3	1:E:261:ARG:HH11	1.86	0.41
1:C:241:GLN:NE2	1:C:762:ILE:CD1	2.84	0.41
1:D:570:GLY:O	1:D:630:MET:CE	2.69	0.41
1:C:881:LEU:O	1:C:885:LEU:HG	2.20	0.41
1:A:548:ILE:HG23	1:A:909:ILE:HD13	2.02	0.41
1:A:835:SER:HB3	1:A:838:ASP:CG	2.41	0.41
1:C:56:THR:C	1:C:58:GLN:N	2.74	0.41
1:F:261:ARG:HB2	1:F:263:LYS:HG2	2.02	0.41
1:E:15:ILE:N	1:E:15:ILE:HD13	2.35	0.41
1:F:273:GLN:NE2	1:F:769:ARG:NH2	2.66	0.41
1:D:612:VAL:HG13	1:D:626:MET:CG	2.51	0.41
1:D:586:ARG:NH1	1:D:586:ARG:HG3	2.36	0.41
1:C:157:TYR:CE2	1:C:162:ILE:HD11	2.56	0.41
1:D:806:GLY:O	1:D:807:LYS:HB2	2.21	0.41
1:A:650:ARG:HG2	1:A:650:ARG:O	2.20	0.41
1:C:715:VAL:CG1	1:C:716:ARG:N	2.84	0.41
1:E:10:ILE:HD12	1:F:894:TRP:CE2	2.56	0.41
1:C:138:MET:HB3	1:C:328:ASP:HA	2.02	0.41
1:A:856:TYR:HD2	1:A:856:TYR:N	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:792:ASN:ND2	1:C:796:GLU:HB2	2.35	0.41
1:B:723:GLU:HB2	1:B:724:PRO:HD2	2.03	0.41
1:B:746:ASN:O	1:B:749:VAL:HG12	2.21	0.41
1:E:478:MET:C	1:E:478:MET:SD	3.00	0.41
1:E:681:ASP:C	1:E:681:ASP:OD2	2.60	0.41
1:D:152:GLU:H	1:D:152:GLU:CD	2.25	0.41
1:D:256:ASP:OD1	1:D:256:ASP:O	2.38	0.41
1:E:393:LEU:CD2	1:E:466:ILE:HG23	2.51	0.41
1:B:577:GLN:NE2	1:B:623:SER:O	2.54	0.41
1:F:754:GLY:O	1:F:755:SER:O	2.39	0.41
1:F:791:ARG:HH11	1:F:791:ARG:HG2	1.85	0.41
1:C:981:ILE:HD12	1:C:1010:VAL:HG23	2.03	0.41
1:B:460:GLY:N	1:B:871:GLN:HE22	1.96	0.41
1:C:32:VAL:HA	1:C:390:ILE:O	2.21	0.41
1:F:548:ILE:O	1:F:549:VAL:C	2.60	0.41
1:E:680:PHE:CA	1:E:862:SER:OG	2.65	0.41
1:B:595:ARG:NH1	1:B:595:ARG:CG	2.77	0.41
1:E:139:VAL:HG23	1:E:326:PRO:HG2	2.02	0.41
1:D:372:VAL:HA	1:D:405:LEU:CD2	2.44	0.41
1:A:445:ILE:CD1	1:A:446:ALA:N	2.78	0.41
1:A:902:LEU:HD13	1:A:1023:PHE:CD1	2.56	0.41
1:D:872:ALA:HB2	1:D:927:GLN:OE1	2.21	0.41
1:A:5:PHE:O	1:A:8:ARG:C	2.59	0.41
1:B:541:TYR:CB	1:B:1022:LEU:HD11	2.51	0.41
1:F:971:ARG:NH1	1:F:971:ARG:HG3	2.35	0.41
1:B:977:SER:O	1:B:981:ILE:HG12	2.21	0.41
1:C:366:LEU:O	1:C:370:ILE:HG12	2.20	0.41
1:E:353:LEU:O	1:E:355:MET:N	2.54	0.41
1:A:831:ALA:HB3	1:A:834:LEU:CG	2.51	0.41
1:A:716:ARG:HB2	1:A:717:PRO:HD2	2.03	0.41
1:B:250:LEU:HD23	1:B:261:ARG:HG3	2.03	0.41
1:D:197:GLN:HB2	1:D:252:LYS:HZ2	1.85	0.41
1:A:920:LEU:HD12	1:A:1003:THR:OG1	2.21	0.41
1:D:730:ILE:HD11	1:F:237:LYS:HD2	2.02	0.41
1:A:872:ALA:N	1:A:873:PRO:CD	2.84	0.41
1:A:641:GLU:HG3	1:A:650:ARG:HH12	1.86	0.41
1:E:228:GLN:HA	1:E:228:GLN:NE2	2.36	0.41
1:E:228:GLN:O	1:E:229:GLN:HB2	2.21	0.41
1:F:938:ALA:O	1:F:939:LYS:O	2.38	0.41
1:A:884:PHE:N	1:A:901:MET:HE1	2.36	0.41
1:E:104:GLN:NE2	1:F:109:ASN:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:270:LEU:HA	1:F:270:LEU:HD12	1.90	0.41
1:C:545:TYR:CE1	1:C:1023:PHE:CZ	3.07	0.40
1:A:52:ALA:HB1	1:A:56:THR:HB	2.02	0.40
1:B:716:ARG:O	1:B:716:ARG:HG2	2.21	0.40
1:F:449:LEU:HD23	1:F:449:LEU:HA	1.93	0.40
1:F:463:THR:HG23	1:F:924:VAL:HG12	2.03	0.40
1:C:47:VAL:HG11	1:C:122:VAL:CG1	2.51	0.40
1:C:45:VAL:O	1:C:88:MET:CE	2.69	0.40
1:F:681:ASP:OD2	1:F:859:THR:HG23	2.21	0.40
1:E:757:TYR:HB2	1:E:771:TYR:CE1	2.56	0.40
1:F:203:VAL:O	1:F:207:ILE:HG12	2.21	0.40
1:F:17:LEU:O	1:F:18:VAL:C	2.59	0.40
1:A:450:SER:O	1:A:452:VAL:N	2.54	0.40
1:F:151:LYS:CG	1:F:285:PRO:HB3	2.50	0.40
1:E:53:SER:OG	1:E:56:THR:HG23	2.21	0.40
1:C:372:VAL:C	1:C:374:VAL:H	2.24	0.40
1:C:374:VAL:O	1:C:375:VAL:C	2.58	0.40
1:C:329:THR:C	1:C:331:PRO:HD2	2.40	0.40
1:A:73:ASP:H	1:A:106:GLN:NE2	2.19	0.40
1:D:958:ILE:CD1	1:D:959:VAL:H	2.30	0.40
1:C:823:ALA:O	1:C:824:MET:HG2	2.20	0.40
1:B:394:THR:HA	1:B:473:THR:HG21	2.04	0.40
1:B:564:LEU:HD12	1:B:671:VAL:HG23	2.03	0.40
1:B:923:ASP:OD1	1:B:923:ASP:C	2.59	0.40
1:F:694:VAL:O	1:F:697:GLN:HB2	2.20	0.40
1:F:412:VAL:HG11	1:F:489:THR:HG22	2.02	0.40
1:B:789:TYR:CZ	1:B:799:PRO:HB3	2.56	0.40
1:B:789:TYR:CD2	1:B:789:TYR:N	2.88	0.40
1:C:145:THR:C	1:C:147:GLY:H	2.24	0.40
1:F:678:THR:HG23	1:F:679:GLY:N	2.36	0.40
1:E:158:ILE:HD13	1:E:162:ILE:HG13	2.02	0.40
1:F:901:MET:O	1:F:902:LEU:C	2.60	0.40
1:D:32:VAL:HG13	1:D:300:LEU:HD12	2.04	0.40
1:E:61:VAL:O	1:E:65:ILE:HG12	2.21	0.40
1:E:62:VAL:HG11	1:E:80:SER:HB3	2.04	0.40
1:E:643:SER:O	1:E:646:GLU:N	2.54	0.40
1:F:563:PHE:O	1:F:924:VAL:HG22	2.22	0.40
1:D:78:ILE:HD12	1:D:91:THR:C	2.41	0.40
1:F:410:ILE:HD11	1:F:976:THR:CG2	2.51	0.40
1:D:123:GLN:C	1:D:125:GLN:N	2.75	0.40
1:E:674:LEU:HD21	1:E:861:LEU:HD11	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:727:LYS:HB2	1:C:235:ILE:HD12	2.02	0.40
1:D:844:GLU:O	1:D:847:VAL:HG12	2.20	0.40
1:C:374:VAL:CG1	1:C:375:VAL:N	2.83	0.40
1:F:376:LEU:HA	1:F:376:LEU:HD12	1.89	0.40
1:D:605:SER:O	1:D:631:LEU:HG	2.21	0.40
1:F:844:GLU:HA	1:F:847:VAL:HG12	2.04	0.40
1:A:840:MET:HB3	1:A:866:ARG:HH22	1.85	0.40
1:A:133:VAL:HG12	1:A:134:LYS:N	2.36	0.40
1:A:660:ASP:O	1:A:661:ALA:HB2	2.21	0.40
1:D:178:PHE:CD1	1:D:612:VAL:HG21	2.57	0.40
1:C:76:ARG:HD3	1:C:863:TYR:CE2	2.56	0.40
1:A:404:LEU:HD22	1:A:936:LEU:HD23	2.04	0.40
1:D:362:PHE:CG	1:D:363:ARG:N	2.89	0.40
1:E:634:TRP:CZ3	1:E:993:ALA:HB2	2.56	0.40
1:C:912:LEU:CD2	1:C:926:PHE:HZ	2.26	0.40
1:C:929:GLY:CA	1:C:932:THR:HG23	2.51	0.40
1:A:933:THR:HG23	1:A:1009:MET:CE	2.52	0.40
1:C:391:ASN:HD21	1:C:394:THR:HB	1.86	0.40
1:B:137:LEU:HD21	1:B:302:THR:OG1	2.21	0.40
1:C:687:GLN:C	1:C:689:GLY:N	2.74	0.40
1:E:646:GLU:HA	1:E:646:GLU:OE1	2.21	0.40
1:B:126:GLY:O	1:B:127:ILE:CB	2.70	0.40
1:A:632:LYS:O	1:A:637:ARG:NH1	2.51	0.40
1:A:538:ARG:HG3	1:A:1022:LEU:CD2	2.48	0.40
1:F:847:VAL:HG21	1:F:856:TYR:CD1	2.56	0.40
1:C:683:PHE:O	1:C:856:TYR:HA	2.21	0.40
1:C:596:GLU:C	1:C:598:LEU:N	2.74	0.40
1:D:49:TYR:CD2	1:D:49:TYR:C	2.93	0.40
1:E:637:ARG:N	1:E:638:PRO:CD	2.83	0.40
1:E:144:SER:O	1:E:145:THR:C	2.59	0.40
1:B:692:HIS:O	1:B:695:LEU:HB3	2.21	0.40
1:D:112:GLN:HG3	1:E:112:GLN:OE1	2.21	0.40
1:F:214:ILE:CG1	1:F:237:LYS:H	2.34	0.40
1:D:254:ASN:N	1:D:255:PRO:HD3	2.35	0.40
1:E:517:ASN:O	1:E:521:LEU:HB2	2.20	0.40
1:B:73:ASP:OD1	1:B:106:GLN:NE2	2.55	0.40
1:A:779:ARG:NH2	1:C:223:PRO:O	2.39	0.40
1:A:339:GLU:O	1:A:343:THR:HG23	2.22	0.40
1:C:1024:TYR:O	1:C:1027:VAL:HG22	2.21	0.40
1:C:350:LEU:O	1:C:354:VAL:HG23	2.21	0.40
1:A:453:PHE:O	1:A:456:MET:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:958:ILE:HG12	1:A:959:VAL:HG23	2.04	0.40
1:F:664:PHE:CE2	1:F:716:ARG:HB3	2.57	0.40
1:B:616:ASN:HD22	1:B:619:GLY:H	1.69	0.40
1:F:520:PHE:CA	1:F:523:THR:HG22	2.52	0.40
1:E:65:ILE:HG21	1:E:90:ILE:HD12	2.03	0.40
1:A:633:PRO:HG2	1:A:636:GLU:HB2	2.04	0.40
1:A:417:GLU:HA	1:A:420:MET:HE2	2.02	0.40
1:D:241:GLN:H	1:D:245:GLN:NE2	2.20	0.40
1:C:13:TRP:O	1:C:16:ALA:HB3	2.21	0.40
1:F:503:GLY:C	1:F:505:HIS:N	2.69	0.40
1:D:631:LEU:HD12	1:D:631:LEU:N	2.35	0.40
1:B:683:PHE:CZ	1:B:825:GLU:HB2	2.56	0.40
1:C:58:GLN:HB2	1:C:82:SER:OG	2.22	0.40
1:A:910:GLY:CA	1:A:1011:THR:HG21	2.51	0.40
1:C:414:GLU:C	1:C:414:GLU:OE2	2.59	0.40
1:E:761:PHE:CG	1:E:761:PHE:O	2.74	0.40
1:F:38:ILE:HD13	1:F:39:ALA:N	2.37	0.40
1:D:13:TRP:CZ3	2:D:2003:LMT:H42	2.56	0.40
1:E:362:PHE:O	1:E:365:THR:HG22	2.21	0.40
1:D:449:LEU:HD12	1:D:478:MET:HG3	2.04	0.40
1:A:595:ARG:HD2	1:A:595:ARG:O	2.21	0.40
1:D:280:GLN:HB2	1:D:284:SER:O	2.22	0.40
1:D:251:LEU:HD12	1:D:260:VAL:O	2.22	0.40
1:D:762:ILE:HG22	1:D:763:ASP:N	2.35	0.40
1:C:641:GLU:HA	1:C:650:ARG:HH12	1.87	0.40
1:C:903:VAL:HG12	1:C:903:VAL:O	2.21	0.40
1:E:859:THR:HG23	1:E:860:GLY:N	2.36	0.40
1:B:254:ASN:HB2	1:B:258:SER:OG	2.22	0.40
1:A:553:ILE:HG22	1:A:553:ILE:O	2.21	0.40
1:E:543:LEU:O	1:E:547:VAL:HG23	2.21	0.40
1:A:189:ASP:OD2	1:A:192:LYS:HG2	2.22	0.40
1:E:164:ASP:CB	1:E:165:PRO:HD3	2.50	0.40
1:C:359:LEU:CD1	1:C:365:THR:HA	2.51	0.40
1:F:544:ILE:O	1:F:548:ILE:HG12	2.21	0.40
1:D:750:SER:O	1:D:755:SER:N	2.53	0.40
1:F:364:ALA:O	1:F:368:PRO:CD	2.69	0.40
1:C:219:LEU:CD1	1:C:234:ILE:HD11	2.51	0.40
1:A:488:LEU:HD22	1:A:492:LEU:HD11	2.02	0.40
1:E:127:ILE:N	1:E:127:ILE:CD1	2.83	0.40
1:C:587:THR:O	1:C:591:VAL:HG23	2.21	0.40
1:D:64:VAL:HG23	1:D:118:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:PRO:HG2	1:A:636:GLU:CG	2.51	0.40
1:C:692:HIS:HE1	1:C:696:LEU:HD21	1.87	0.40
1:F:240:LEU:HG	1:F:245:GLN:NE2	2.33	0.40
1:B:338:HIS:C	1:B:340:VAL:N	2.74	0.40
1:C:211:ASN:OD1	1:C:240:LEU:HB2	2.21	0.40
1:E:184:MET:HB2	1:E:761:PHE:CZ	2.57	0.40
1:F:1008:GLY:O	1:F:1009:MET:C	2.56	0.40
1:F:402:ILE:HD12	1:F:403:GLY:H	1.87	0.40
1:E:407:ASP:O	1:E:411:VAL:HG13	2.21	0.40
1:B:597:TYR:CD2	1:B:598:LEU:HD22	2.55	0.40
1:E:1020:VAL:HB	1:E:1021:PRO:CD	2.52	0.40
1:B:632:LYS:HG2	1:B:637:ARG:HD3	2.03	0.40
1:F:457:ALA:CB	1:F:468:ARG:HG2	2.51	0.40
1:C:361:ASN:O	1:C:363:ARG:N	2.55	0.40
1:F:214:ILE:CD1	1:F:237:LYS:H	2.32	0.40
1:A:50:PRO:HG3	1:A:125:GLN:HE22	1.86	0.40
1:C:798:VAL:HA	1:C:799:PRO:HD3	1.95	0.40
1:B:907:GLY:CA	1:B:1012:ALA:HB2	2.51	0.40
1:D:835:SER:O	1:D:838:ASP:HB2	2.22	0.40
1:C:114:ALA:C	1:C:116:PRO:HD2	2.42	0.40
1:B:142:VAL:CG1	1:B:321:MET:HG3	2.51	0.40
1:A:614:GLY:HA2	1:A:621:GLY:O	2.21	0.40
1:E:997:SER:O	1:E:1000:ALA:N	2.50	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	1011/1046 (97%)	834 (82%)	139 (14%)	38 (4%)	4 8
1	B	1028/1046 (98%)	878 (85%)	123 (12%)	27 (3%)	7 15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	1028/1046 (98%)	814 (79%)	161 (16%)	53 (5%)	2	4
1	D	1016/1046 (97%)	815 (80%)	156 (15%)	45 (4%)	3	6
1	E	1028/1046 (98%)	839 (82%)	147 (14%)	42 (4%)	3	7
1	F	1031/1046 (99%)	837 (81%)	133 (13%)	61 (6%)	2	3
All	All	6142/6276 (98%)	5017 (82%)	859 (14%)	266 (4%)	3	6

All (266) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	326	PRO
1	A	603	SER
1	A	673	GLU
1	A	714	ARG
1	A	740	VAL
1	A	872	ALA
1	B	249	ILE
1	B	438	ILE
1	B	741	SER
1	C	125	GLN
1	C	258	SER
1	C	276	SER
1	C	361	ASN
1	C	501	GLU
1	C	633	PRO
1	C	661	ALA
1	C	737	ALA
1	C	796	GLU
1	C	803	PHE
1	C	958	ILE
1	C	1024	TYR
1	D	196	TYR
1	D	219	LEU
1	D	239	ARG
1	D	441	ALA
1	D	603	SER
1	D	654	HIS
1	D	673	GLU
1	D	714	ARG
1	D	872	ALA
1	D	953	GLU
1	D	995	SER

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Mol	Chain	Res	Type
1	E	238	THR
1	E	582	SER
1	E	618	ALA
1	E	623	SER
1	E	690	VAL
1	E	714	ARG
1	F	319	GLN
1	F	361	ASN
1	F	422	GLU
1	F	501	GLU
1	F	504	ASP
1	F	505	HIS
1	F	538	ARG
1	F	636	GLU
1	F	660	ASP
1	F	661	ALA
1	F	687	GLN
1	F	727	LYS
1	F	755	SER
1	F	796	GLU
1	F	913	LEU
1	F	939	LYS
1	A	713	GLN
1	A	715	VAL
1	A	801	ASN
1	A	834	LEU
1	A	1027	VAL
1	B	140	VAL
1	B	250	LEU
1	B	339	GLU
1	B	488	LEU
1	B	558	ARG
1	B	673	GLU
1	B	705	LEU
1	B	742	LEU
1	B	755	SER
1	C	241	GLN
1	C	407	ASP
1	C	507	GLU
1	C	582	SER
1	C	602	GLU
1	C	618	ALA

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Mol	Chain	Res	Type
1	C	663	VAL
1	C	689	GLY
1	C	804	ALA
1	C	1017	ILE
1	D	147	GLY
1	D	217	GLY
1	D	361	ASN
1	D	440	GLY
1	D	498	LYS
1	D	732	ASP
1	D	779	ARG
1	D	796	GLU
1	D	819	ASN
1	D	989	ILE
1	E	147	GLY
1	E	181	GLN
1	E	192	LYS
1	E	228	GLN
1	E	580	PRO
1	E	658	PHE
1	E	680	PHE
1	E	681	ASP
1	E	712	LEU
1	E	719	GLY
1	E	728	LEU
1	E	732	ASP
1	E	790	VAL
1	E	806	GLY
1	E	827	LEU
1	E	958	ILE
1	F	201	GLY
1	F	202	ASP
1	F	225	VAL
1	F	322	LYS
1	F	326	PRO
1	F	360	GLN
1	F	363	ARG
1	F	502	LYS
1	F	644	VAL
1	F	744	ASP
1	F	778	ALA
1	F	810	TYR

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Mol	Chain	Res	Type
1	F	819	ASN
1	F	958	ILE
1	A	69	MET
1	A	170	LYS
1	A	451	ALA
1	A	643	SER
1	A	664	PHE
1	A	755	SER
1	A	832	PRO
1	A	839	ALA
1	A	851	PRO
1	B	127	ILE
1	B	357	LEU
1	B	439	GLN
1	B	509	LYS
1	B	660	ASP
1	B	676	ASN
1	B	807	LYS
1	C	163	GLN
1	C	240	LEU
1	C	422	GLU
1	C	598	LEU
1	C	616	ASN
1	C	687	GLN
1	C	755	SER
1	C	779	ARG
1	D	61	VAL
1	D	143	VAL
1	D	311	ALA
1	D	538	ARG
1	D	635	GLU
1	D	699	ARG
1	D	794	LYS
1	D	1026	ALA
1	E	657	SER
1	E	688	ALA
1	E	689	GLY
1	E	785	LEU
1	E	807	LYS
1	E	849	GLN
1	E	853	GLY
1	F	299	ALA

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Mol	Chain	Res	Type
1	F	462	SER
1	F	503	GLY
1	F	633	PRO
1	F	726	TYR
1	F	742	LEU
1	F	745	ILE
1	F	845	GLU
1	A	328	ASP
1	A	564	LEU
1	A	588	GLN
1	A	602	GLU
1	A	932	THR
1	B	217	GLY
1	B	312	ASN
1	B	639	GLY
1	C	34	GLN
1	C	362	PHE
1	C	400	LEU
1	C	414	GLU
1	C	597	TYR
1	C	641	GLU
1	C	662	MET
1	C	852	LYS
1	C	872	ALA
1	D	258	SER
1	D	263	LYS
1	D	424	GLY
1	D	439	GLN
1	D	564	LEU
1	D	755	SER
1	D	917	MET
1	D	946	GLU
1	E	85	ASP
1	E	722	ASP
1	E	804	ALA
1	E	829	GLU
1	F	241	GLN
1	F	276	SER
1	F	318	PRO
1	F	598	LEU
1	F	601	LYS
1	F	602	GLU

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Mol	Chain	Res	Type
1	F	663	VAL
1	F	678	THR
1	F	853	GLY
1	F	1024	TYR
1	A	126	GLY
1	A	676	ASN
1	B	216	SER
1	C	360	GLN
1	C	1025	VAL
1	D	372	VAL
1	D	588	GLN
1	D	730	ILE
1	D	777	ASP
1	D	956	LYS
1	E	184	MET
1	E	208	GLN
1	E	258	SER
1	F	36	PRO
1	F	238	THR
1	F	330	THR
1	F	618	ALA
1	F	690	VAL
1	A	167	SER
1	A	318	PRO
1	A	638	PRO
1	A	777	ASP
1	B	221	GLY
1	B	549	VAL
1	C	318	PRO
1	C	326	PRO
1	C	456	MET
1	C	539	ALA
1	C	621	GLY
1	C	639	GLY
1	D	617	PHE
1	E	557	THR
1	E	779	ARG
1	F	50	PRO
1	F	857	SER
1	F	1032	LYS
1	A	498	LYS
1	B	847	VAL

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Mol	Chain	Res	Type
1	C	62	VAL
1	C	609	VAL
1	D	214	ILE
1	E	715	VAL
1	F	147	GLY
1	F	981	ILE
1	A	47	VAL
1	A	994	GLY
1	A	996	GLY
1	C	61	VAL
1	C	315	PRO
1	E	340	VAL
1	E	691	GLY
1	E	795	GLY
1	F	851	PRO
1	A	776	PRO
1	B	539	ALA
1	C	580	PRO
1	C	846	ILE
1	D	578	THR
1	F	47	VAL
1	A	221	GLY
1	F	799	PRO
1	A	639	GLY

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	832/854 (97%)	759 (91%)	73 (9%)	12	28
1	B	841/854 (98%)	762 (91%)	79 (9%)	11	24
1	C	841/854 (98%)	762 (91%)	79 (9%)	11	24
1	D	835/854 (98%)	766 (92%)	69 (8%)	14	31
1	E	841/854 (98%)	784 (93%)	57 (7%)	20	43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	F	844/854 (99%)	771 (91%)	73 (9%)	13	28
All	All	5034/5124 (98%)	4604 (92%)	430 (8%)	13	29

All (430) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	PHE
1	A	21	LEU
1	A	25	LEU
1	A	33	ASN
1	A	48	SER
1	A	49	TYR
1	A	83	ASN
1	A	84	SER
1	A	88	MET
1	A	95	GLU
1	A	131	LYS
1	A	146	ASP
1	A	172	VAL
1	A	177	VAL
1	A	188	LEU
1	A	193	LEU
1	A	194	ASN
1	A	215	SER
1	A	219	LEU
1	A	244	GLU
1	A	248	ASN
1	A	289	ILE
1	A	302	THR
1	A	307	ARG
1	A	337	ILE
1	A	343	THR
1	A	356	TYR
1	A	362	PHE
1	A	377	LEU
1	A	406	VAL
1	A	415	ASN
1	A	433	LYS
1	A	437	GLN
1	A	438	ILE
1	A	442	LEU
1	A	472	ILE

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Mol	Chain	Res	Type
1	A	483	ILE
1	A	488	LEU
1	A	489	THR
1	A	512	PHE
1	A	556	PHE
1	A	592	ASP
1	A	612	VAL
1	A	616	ASN
1	A	645	PHE
1	A	671	VAL
1	A	684	LEU
1	A	690	VAL
1	A	716	ARG
1	A	722	ASP
1	A	730	ILE
1	A	731	ASP
1	A	760	ASP
1	A	761	PHE
1	A	768	LYS
1	A	770	VAL
1	A	800	PHE
1	A	805	THR
1	A	810	TYR
1	A	814	LYS
1	A	856	TYR
1	A	861	LEU
1	A	863	TYR
1	A	865	GLU
1	A	878	LEU
1	A	900	VAL
1	A	939	LYS
1	A	947	PHE
1	A	954	GLN
1	A	958	ILE
1	A	964	GLU
1	A	976	THR
1	A	989	ILE
1	B	2	SER
1	B	17	LEU
1	B	47	VAL
1	B	49	TYR
1	B	60	THR

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Mol	Chain	Res	Type
1	B	64	VAL
1	B	68	GLN
1	B	70	ASN
1	B	78	ILE
1	B	79	SER
1	B	88	MET
1	B	96	GLN
1	B	105	VAL
1	B	106	GLN
1	B	111	LEU
1	B	113	LEU
1	B	121	GLU
1	B	129	VAL
1	B	134	LYS
1	B	139	VAL
1	B	159	VAL
1	B	182	TYR
1	B	188	LEU
1	B	197	GLN
1	B	251	LEU
1	B	261	ARG
1	B	280	GLN
1	B	289	ILE
1	B	291	ILE
1	B	343	THR
1	B	348	ILE
1	B	365	THR
1	B	411	VAL
1	B	414	GLU
1	B	417	GLU
1	B	418	ARG
1	B	432	ARG
1	B	434	SER
1	B	445	ILE
1	B	462	SER
1	B	473	THR
1	B	475	VAL
1	B	486	LEU
1	B	497	LEU
1	B	501	GLU
1	B	543	LEU
1	B	559	ILE

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Mol	Chain	Res	Type
1	B	572	LEU
1	B	575	GLN
1	B	601	LYS
1	B	610	PHE
1	B	632	LYS
1	B	635	GLU
1	B	641	GLU
1	B	650	ARG
1	B	658	PHE
1	B	662	MET
1	B	684	LEU
1	B	687	GLN
1	B	693	GLU
1	B	696	LEU
1	B	712	LEU
1	B	716	ARG
1	B	733	GLU
1	B	767	VAL
1	B	773	GLN
1	B	783	ASP
1	B	789	TYR
1	B	800	PHE
1	B	827	LEU
1	B	844	GLU
1	B	871	GLN
1	B	880	LEU
1	B	909	ILE
1	B	917	MET
1	B	936	LEU
1	B	959	VAL
1	B	969	ARG
1	B	1001	ILE
1	C	11	PHE
1	C	15	ILE
1	C	38	ILE
1	C	67	GLN
1	C	88	MET
1	C	89	THR
1	C	102	ILE
1	C	117	LEU
1	C	118	LEU
1	C	125	GLN

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Mol	Chain	Res	Type
1	C	143	VAL
1	C	152	GLU
1	C	163	GLN
1	C	210	GLN
1	C	218	GLN
1	C	238	THR
1	C	240	LEU
1	C	252	LYS
1	C	264	ASP
1	C	277	ILE
1	C	291	ILE
1	C	306	ILE
1	C	343	THR
1	C	348	ILE
1	C	361	ASN
1	C	391	ASN
1	C	394	THR
1	C	398	MET
1	C	402	ILE
1	C	405	LEU
1	C	408	ASP
1	C	410	ILE
1	C	434	SER
1	C	435	MET
1	C	439	GLN
1	C	448	VAL
1	C	452	VAL
1	C	463	THR
1	C	466	ILE
1	C	473	THR
1	C	475	VAL
1	C	484	VAL
1	C	486	LEU
1	C	497	LEU
1	C	502	LYS
1	C	544	ILE
1	C	557	THR
1	C	592	ASP
1	C	595	ARG
1	C	611	THR
1	C	616	ASN
1	C	645	PHE

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Mol	Chain	Res	Type
1	C	650	ARG
1	C	659	LYS
1	C	685	GLN
1	C	701	LYS
1	C	730	ILE
1	C	785	LEU
1	C	797	MET
1	C	814	LYS
1	C	840	MET
1	C	867	LEU
1	C	880	LEU
1	C	881	LEU
1	C	890	LEU
1	C	898	PHE
1	C	902	LEU
1	C	906	LEU
1	C	920	LEU
1	C	932	THR
1	C	933	THR
1	C	934	ILE
1	C	937	SER
1	C	943	LEU
1	C	946	GLU
1	C	969	ARG
1	C	984	VAL
1	C	1009	MET
1	C	1030	LEU
1	D	11	PHE
1	D	25	LEU
1	D	49	TYR
1	D	55	GLU
1	D	70	ASN
1	D	88	MET
1	D	96	GLN
1	D	118	LEU
1	D	121	GLU
1	D	163	GLN
1	D	166	LEU
1	D	319	GLN
1	D	344	LEU
1	D	348	ILE
1	D	353	LEU

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Mol	Chain	Res	Type
1	D	359	LEU
1	D	362	PHE
1	D	365	THR
1	D	392	THR
1	D	393	LEU
1	D	405	LEU
1	D	408	ASP
1	D	437	GLN
1	D	443	VAL
1	D	472	ILE
1	D	483	ILE
1	D	488	LEU
1	D	497	LEU
1	D	512	PHE
1	D	521	LEU
1	D	544	ILE
1	D	586	ARG
1	D	592	ASP
1	D	597	TYR
1	D	601	LYS
1	D	616	ASN
1	D	647	LEU
1	D	664	PHE
1	D	674	LEU
1	D	678	THR
1	D	684	LEU
1	D	687	GLN
1	D	695	LEU
1	D	713	GLN
1	D	716	ARG
1	D	732	ASP
1	D	742	LEU
1	D	772	LEU
1	D	800	PHE
1	D	817	ARG
1	D	845	GLU
1	D	857	SER
1	D	861	LEU
1	D	863	TYR
1	D	878	LEU
1	D	881	LEU
1	D	885	LEU

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Mol	Chain	Res	Type
1	D	932	THR
1	D	958	ILE
1	D	964	GLU
1	D	970	LEU
1	D	987	LEU
1	D	1009	MET
1	D	1011	THR
1	D	1013	THR
1	D	1022	LEU
1	D	1029	THR
1	D	1030	LEU
1	D	1031	PHE
1	E	11	PHE
1	E	17	LEU
1	E	18	VAL
1	E	48	SER
1	E	49	TYR
1	E	55	GLU
1	E	78	ILE
1	E	81	GLU
1	E	89	THR
1	E	112	GLN
1	E	113	LEU
1	E	117	LEU
1	E	120	GLN
1	E	125	GLN
1	E	134	LYS
1	E	146	ASP
1	E	167	SER
1	E	261	ARG
1	E	298	ASN
1	E	354	VAL
1	E	365	THR
1	E	393	LEU
1	E	398	MET
1	E	414	GLU
1	E	420	MET
1	E	432	ARG
1	E	475	VAL
1	E	486	LEU
1	E	495	THR
1	E	497	LEU

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Mol	Chain	Res	Type
1	E	544	ILE
1	E	556	PHE
1	E	559	ILE
1	E	572	LEU
1	E	592	ASP
1	E	597	TYR
1	E	635	GLU
1	E	641	GLU
1	E	659	LYS
1	E	666	PHE
1	E	693	GLU
1	E	696	LEU
1	E	716	ARG
1	E	722	ASP
1	E	785	LEU
1	E	789	TYR
1	E	803	PHE
1	E	825	GLU
1	E	856	TYR
1	E	865	GLU
1	E	870	SER
1	E	893	SER
1	E	936	LEU
1	E	956	LYS
1	E	969	ARG
1	E	976	THR
1	E	1022	LEU
1	F	11	PHE
1	F	15	ILE
1	F	30	LEU
1	F	38	ILE
1	F	49	TYR
1	F	62	VAL
1	F	83	ASN
1	F	88	MET
1	F	104	GLN
1	F	125	GLN
1	F	128	ARG
1	F	142	VAL
1	F	153	ASP
1	F	160	SER
1	F	166	LEU

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Mol	Chain	Res	Type
1	F	185	ARG
1	F	228	GLN
1	F	256	ASP
1	F	259	GLN
1	F	278	ASN
1	F	289	ILE
1	F	295	THR
1	F	306	ILE
1	F	343	THR
1	F	348	ILE
1	F	357	LEU
1	F	366	LEU
1	F	374	VAL
1	F	376	LEU
1	F	379	THR
1	F	394	THR
1	F	445	ILE
1	F	452	VAL
1	F	462	SER
1	F	463	THR
1	F	466	ILE
1	F	471	SER
1	F	473	THR
1	F	481	SER
1	F	484	VAL
1	F	486	LEU
1	F	488	LEU
1	F	497	LEU
1	F	498	LYS
1	F	507	GLU
1	F	519	MET
1	F	544	ILE
1	F	564	LEU
1	F	595	ARG
1	F	608	SER
1	F	616	ASN
1	F	631	LEU
1	F	654	HIS
1	F	660	ASP
1	F	699	ARG
1	F	716	ARG
1	F	720	MET

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Mol	Chain	Res	Type
1	F	730	ILE
1	F	779	ARG
1	F	793	ASP
1	F	807	LYS
1	F	827	LEU
1	F	846	ILE
1	F	856	TYR
1	F	880	LEU
1	F	881	LEU
1	F	902	LEU
1	F	909	ILE
1	F	932	THR
1	F	934	ILE
1	F	946	GLU
1	F	973	ILE
1	F	1001	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (206) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	ASN
1	A	34	GLN
1	A	46	GLN
1	A	63	GLN
1	A	96	GLN
1	A	106	GLN
1	A	108	GLN
1	A	120	GLN
1	A	125	GLN
1	A	194	ASN
1	A	210	GLN
1	A	229	GLN
1	A	241	GLN
1	A	245	GLN
1	A	248	ASN
1	A	298	ASN
1	A	415	ASN
1	A	437	GLN
1	A	588	GLN
1	A	616	ASN
1	A	622	GLN
1	A	652	GLN

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Mol	Chain	Res	Type
1	A	654	HIS
1	A	687	GLN
1	A	697	GLN
1	A	708	GLN
1	A	713	GLN
1	A	819	ASN
1	A	922	ASN
1	A	927	GLN
1	A	940	ASN
1	A	998	GLN
1	B	58	GLN
1	B	67	GLN
1	B	70	ASN
1	B	108	GLN
1	B	112	GLN
1	B	120	GLN
1	B	123	GLN
1	B	156	ASN
1	B	181	GLN
1	B	208	GLN
1	B	228	GLN
1	B	229	GLN
1	B	241	GLN
1	B	259	GLN
1	B	273	GLN
1	B	298	ASN
1	B	308	GLN
1	B	360	GLN
1	B	361	ASN
1	B	415	ASN
1	B	439	GLN
1	B	469	GLN
1	B	577	GLN
1	B	616	ASN
1	B	622	GLN
1	B	642	ASN
1	B	685	GLN
1	B	687	GLN
1	B	692	HIS
1	B	697	GLN
1	B	713	GLN
1	B	725	GLN

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Mol	Chain	Res	Type
1	B	746	ASN
1	B	773	GLN
1	B	871	GLN
1	B	927	GLN
1	B	998	GLN
1	C	34	GLN
1	C	70	ASN
1	C	83	ASN
1	C	112	GLN
1	C	120	GLN
1	C	125	GLN
1	C	156	ASN
1	C	163	GLN
1	C	176	GLN
1	C	210	GLN
1	C	228	GLN
1	C	231	ASN
1	C	241	GLN
1	C	248	ASN
1	C	254	ASN
1	C	259	GLN
1	C	280	GLN
1	C	319	GLN
1	C	360	GLN
1	C	391	ASN
1	C	439	GLN
1	C	569	GLN
1	C	577	GLN
1	C	588	GLN
1	C	616	ASN
1	C	654	HIS
1	C	708	GLN
1	C	713	GLN
1	C	725	GLN
1	C	746	ASN
1	C	849	GLN
1	C	871	GLN
1	C	927	GLN
1	C	952	HIS
1	C	998	GLN
1	D	63	GLN
1	D	96	GLN

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Mol	Chain	Res	Type
1	D	120	GLN
1	D	125	GLN
1	D	156	ASN
1	D	163	GLN
1	D	176	GLN
1	D	197	GLN
1	D	210	GLN
1	D	213	GLN
1	D	218	GLN
1	D	231	ASN
1	D	241	GLN
1	D	245	GLN
1	D	248	ASN
1	D	298	ASN
1	D	308	GLN
1	D	319	GLN
1	D	437	GLN
1	D	575	GLN
1	D	577	GLN
1	D	622	GLN
1	D	685	GLN
1	D	687	GLN
1	D	697	GLN
1	D	709	ASN
1	D	713	GLN
1	D	819	ASN
1	D	871	GLN
1	D	922	ASN
1	D	927	GLN
1	D	998	GLN
1	D	999	HIS
1	E	34	GLN
1	E	108	GLN
1	E	112	GLN
1	E	123	GLN
1	E	125	GLN
1	E	156	ASN
1	E	181	GLN
1	E	197	GLN
1	E	218	GLN
1	E	228	GLN
1	E	229	GLN

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Mol	Chain	Res	Type
1	E	259	GLN
1	E	273	GLN
1	E	278	ASN
1	E	280	GLN
1	E	298	ASN
1	E	312	ASN
1	E	415	ASN
1	E	439	GLN
1	E	577	GLN
1	E	642	ASN
1	E	687	GLN
1	E	697	GLN
1	E	700	ASN
1	E	708	GLN
1	E	725	GLN
1	E	801	ASN
1	E	849	GLN
1	E	871	GLN
1	E	922	ASN
1	E	927	GLN
1	E	998	GLN
1	F	34	GLN
1	F	58	GLN
1	F	68	GLN
1	F	83	ASN
1	F	104	GLN
1	F	106	GLN
1	F	108	GLN
1	F	112	GLN
1	F	120	GLN
1	F	125	GLN
1	F	156	ASN
1	F	176	GLN
1	F	218	GLN
1	F	241	GLN
1	F	245	GLN
1	F	248	ASN
1	F	254	ASN
1	F	259	GLN
1	F	273	GLN
1	F	278	ASN
1	F	298	ASN

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Mol	Chain	Res	Type
1	F	437	GLN
1	F	439	GLN
1	F	517	ASN
1	F	569	GLN
1	F	577	GLN
1	F	616	ASN
1	F	622	GLN
1	F	642	ASN
1	F	685	GLN
1	F	687	GLN
1	F	713	GLN
1	F	759	ASN
1	F	849	GLN
1	F	871	GLN
1	F	927	GLN
1	F	998	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

16 ligands are modelled in this entry.

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
2	LMT	A	1101	-	36,36,36	0.82	1 (2%)	47,47,47	1.75	16 (34%)
2	LMT	A	1102	-	36,36,36	0.67	1 (2%)	47,47,47	1.69	12 (25%)
2	LMT	B	2001	-	36,36,36	0.46	0	47,47,47	1.28	4 (8%)
2	LMT	B	2002	-	36,36,36	0.75	1 (2%)	47,47,47	1.79	11 (23%)
2	LMT	B	2003	-	36,36,36	0.80	1 (2%)	47,47,47	1.62	10 (21%)
2	LMT	B	2004	-	36,36,36	0.47	0	47,47,47	1.06	3 (6%)
2	LMT	C	2001	-	36,36,36	0.72	1 (2%)	47,47,47	1.29	5 (10%)
2	LMT	C	2002	-	36,36,36	0.69	1 (2%)	47,47,47	1.34	6 (12%)
2	LMT	D	2001	-	36,36,36	0.92	2 (5%)	47,47,47	1.47	7 (14%)
2	LMT	D	2002	-	36,36,36	0.64	0	47,47,47	1.35	5 (10%)
2	LMT	D	2003	-	36,36,36	0.77	1 (2%)	47,47,47	1.46	5 (10%)
2	LMT	E	2001	-	36,36,36	0.66	1 (2%)	47,47,47	1.15	3 (6%)
2	LMT	E	2002	-	36,36,36	0.94	1 (2%)	47,47,47	1.48	9 (19%)
2	LMT	E	2003	-	36,36,36	0.73	1 (2%)	47,47,47	1.52	7 (14%)
2	LMT	F	2001	-	36,36,36	0.80	1 (2%)	47,47,47	2.03	14 (29%)
2	LMT	F	2002	-	36,36,36	0.82	1 (2%)	47,47,47	1.40	6 (12%)

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
2	LMT	A	1101	-	-	0/21/61/61	0/2/2/2
2	LMT	A	1102	-	-	0/21/61/61	0/2/2/2
2	LMT	B	2001	-	-	0/21/61/61	0/2/2/2
2	LMT	B	2002	-	-	0/21/61/61	0/2/2/2
2	LMT	B	2003	-	-	0/21/61/61	0/2/2/2
2	LMT	B	2004	-	-	0/21/61/61	0/2/2/2
2	LMT	C	2001	-	-	0/21/61/61	0/2/2/2
2	LMT	C	2002	-	-	0/21/61/61	0/2/2/2
2	LMT	D	2001	-	-	0/21/61/61	0/2/2/2
2	LMT	D	2002	-	-	0/21/61/61	0/2/2/2
2	LMT	D	2003	-	-	0/21/61/61	0/2/2/2
2	LMT	E	2001	-	-	0/21/61/61	0/2/2/2
2	LMT	E	2002	-	-	0/21/61/61	0/2/2/2
2	LMT	E	2003	-	-	0/21/61/61	0/2/2/2
2	LMT	F	2001	-	-	0/21/61/61	0/2/2/2
2	LMT	F	2002	-	-	0/21/61/61	0/2/2/2

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2002	LMT	O1'-C1'	2.06	1.43	1.40
2	D	2001	LMT	O1B-C1B	2.20	1.47	1.41
2	E	2003	LMT	O1'-C1'	2.37	1.44	1.40
2	C	2002	LMT	O1'-C1'	2.48	1.44	1.40
2	A	1102	LMT	O1'-C1'	2.54	1.44	1.40
2	A	1101	LMT	O1'-C1'	2.63	1.44	1.40
2	F	2001	LMT	O1'-C1'	2.69	1.45	1.40
2	F	2002	LMT	O1'-C1'	2.79	1.45	1.40
2	E	2001	LMT	O1'-C1'	2.86	1.45	1.40
2	B	2003	LMT	O1'-C1'	2.87	1.45	1.40
2	D	2001	LMT	O1'-C1'	2.97	1.45	1.40
2	D	2003	LMT	O1'-C1'	3.05	1.45	1.40
2	E	2002	LMT	O1'-C1'	3.06	1.45	1.40
2	C	2001	LMT	O1'-C1'	3.07	1.45	1.40

All (123) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	2001	LMT	C3'-C4'-C5'	-4.99	99.55	110.84
2	B	2001	LMT	C1B-O1B-C4'	-4.29	106.80	118.01
2	B	2001	LMT	C1-O1'-C1'	-4.09	106.80	113.94
2	A	1101	LMT	C2'-C3'-C4'	-3.96	100.91	109.60
2	F	2001	LMT	O5'-C5'-C4'	-3.78	101.76	109.75
2	B	2001	LMT	C1'-O5'-C5'	-3.15	107.64	113.75
2	B	2001	LMT	C1B-O5B-C5B	-3.13	107.67	113.75
2	A	1102	LMT	C4B-C3B-C2B	-3.10	105.00	110.79
2	F	2001	LMT	O2'-C2'-C3'	-3.08	103.40	110.34
2	A	1102	LMT	O5'-C1'-C2'	-3.03	104.07	110.28
2	E	2001	LMT	O3B-C3B-C2B	-2.96	103.67	110.34
2	A	1101	LMT	O2'-C2'-C3'	-2.69	104.28	110.34
2	B	2002	LMT	C1B-O1B-C4'	-2.62	111.15	118.01
2	C	2002	LMT	O5'-C1'-C2'	-2.59	104.97	110.28
2	E	2002	LMT	O3'-C3'-C4'	-2.52	103.91	109.87
2	C	2002	LMT	O2'-C2'-C3'	-2.47	104.77	110.34
2	B	2003	LMT	C3'-C4'-C5'	-2.38	105.46	110.84
2	B	2003	LMT	C4B-C3B-C2B	-2.36	106.38	110.79
2	F	2002	LMT	O2'-C2'-C3'	-2.36	105.02	110.34
2	B	2004	LMT	C1B-C2B-C3B	-2.26	105.52	109.97
2	A	1102	LMT	O5B-C1B-C2B	-2.25	105.65	110.28
2	D	2003	LMT	O4'-C4B-C3B	-2.20	105.39	110.34
2	A	1102	LMT	C6B-C5B-C4B	-2.20	107.60	113.02
2	C	2001	LMT	C1B-O1B-C4'	-2.17	112.33	118.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2003	LMT	C1B-O1B-C4'	-2.13	112.45	118.01
2	A	1102	LMT	C1B-O1B-C4'	-2.11	112.50	118.01
2	A	1102	LMT	C1B-C2B-C3B	-2.09	105.84	109.97
2	A	1101	LMT	O3'-C3'-C2'	-2.03	105.76	110.34
2	B	2003	LMT	O5'-C5'-C6'	2.02	111.46	106.36
2	D	2002	LMT	C3B-C4B-C5B	2.03	113.73	110.20
2	B	2003	LMT	C1-O1'-C1'	2.04	117.52	113.94
2	F	2001	LMT	C3B-C4B-C5B	2.08	113.82	110.20
2	B	2002	LMT	O5'-C1'-O1'	2.11	115.13	110.05
2	A	1101	LMT	O5'-C1'-C2'	2.11	114.60	110.28
2	D	2001	LMT	O5'-C5'-C4'	2.14	114.27	109.75
2	A	1101	LMT	O1B-C1B-O5B	2.15	116.14	110.68
2	A	1101	LMT	O5'-C1'-O1'	2.16	115.26	110.05
2	E	2003	LMT	O3'-C3'-C4'	2.17	115.00	109.87
2	A	1101	LMT	C1B-O1B-C4'	2.17	123.69	118.01
2	E	2002	LMT	C1-O1'-C1'	2.18	117.75	113.94
2	C	2001	LMT	C4B-C3B-C2B	2.18	114.86	110.79
2	C	2002	LMT	O1B-C1B-C2B	2.19	113.44	108.10
2	E	2002	LMT	O5B-C5B-C4B	2.20	113.80	109.68
2	E	2003	LMT	O1'-C1'-C2'	2.20	110.82	108.04
2	A	1101	LMT	C4B-C3B-C2B	2.21	114.91	110.79
2	B	2002	LMT	O1B-C1B-C2B	2.22	113.52	108.10
2	B	2004	LMT	O3B-C3B-C4B	2.23	115.36	110.34
2	F	2001	LMT	O2B-C2B-C3B	2.26	115.43	110.34
2	A	1101	LMT	O5'-C5'-C4'	2.28	114.55	109.75
2	D	2002	LMT	O5B-C5B-C6B	2.28	112.13	106.36
2	E	2002	LMT	O5'-C5'-C4'	2.34	114.70	109.75
2	A	1102	LMT	O1B-C4'-C5'	2.38	115.59	109.32
2	D	2001	LMT	O5'-C5'-C6'	2.40	112.42	106.36
2	E	2002	LMT	O1'-C1'-C2'	2.42	111.09	108.04
2	D	2003	LMT	O5'-C5'-C6'	2.44	112.53	106.36
2	E	2002	LMT	O1B-C4'-C5'	2.49	115.87	109.32
2	F	2002	LMT	O1'-C1'-C2'	2.49	111.19	108.04
2	A	1101	LMT	O1B-C4'-C5'	2.53	115.97	109.32
2	D	2002	LMT	C1'-O5'-C5'	2.54	118.67	113.75
2	D	2001	LMT	O5B-C5B-C6B	2.56	112.81	106.36
2	A	1101	LMT	C1B-O5B-C5B	2.56	118.71	113.75
2	C	2002	LMT	O1'-C1'-C2'	2.57	111.28	108.04
2	D	2001	LMT	O5'-C1'-O1'	2.61	116.34	110.05
2	B	2003	LMT	O1B-C1B-C2B	2.66	114.56	108.10
2	F	2001	LMT	O5'-C5'-C6'	2.68	113.14	106.36
2	A	1101	LMT	O5B-C5B-C4B	2.70	114.75	109.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2002	LMT	C1B-O5B-C5B	2.71	119.00	113.75
2	F	2001	LMT	C1B-O5B-C5B	2.74	119.06	113.75
2	B	2002	LMT	C3'-C4'-C5'	2.77	117.10	110.84
2	A	1101	LMT	O5B-C5B-C6B	2.79	113.40	106.36
2	E	2001	LMT	O5B-C5B-C6B	2.80	113.43	106.36
2	F	2002	LMT	C1B-O1B-C4'	2.81	125.34	118.01
2	B	2002	LMT	O5'-C5'-C4'	2.86	115.78	109.75
2	B	2003	LMT	O1B-C4'-C3'	2.87	114.56	107.17
2	D	2003	LMT	C3B-C4B-C5B	2.89	115.23	110.20
2	F	2002	LMT	O1B-C4'-C3'	2.89	114.63	107.17
2	D	2003	LMT	C1B-O5B-C5B	2.90	119.37	113.75
2	B	2004	LMT	O1'-C1'-C2'	2.97	111.78	108.04
2	F	2001	LMT	C6'-C5'-C4'	2.99	121.96	113.25
2	E	2003	LMT	O5B-C5B-C4B	3.03	115.37	109.68
2	E	2003	LMT	C1'-O5'-C5'	3.04	119.64	113.75
2	E	2002	LMT	O5'-C5'-C6'	3.04	114.05	106.36
2	C	2002	LMT	C1B-O5B-C5B	3.05	119.66	113.75
2	F	2001	LMT	O1B-C1B-C2B	3.10	115.65	108.10
2	C	2001	LMT	C1'-O5'-C5'	3.11	119.78	113.75
2	E	2002	LMT	O1B-C1B-C2B	3.18	115.83	108.10
2	A	1102	LMT	O5B-C5B-C4B	3.24	115.75	109.68
2	C	2001	LMT	O1'-C1'-C2'	3.24	112.13	108.04
2	A	1102	LMT	O2B-C2B-C3B	3.24	117.64	110.34
2	D	2001	LMT	C1'-O5'-C5'	3.27	120.09	113.75
2	C	2001	LMT	C3B-C4B-C5B	3.28	115.91	110.20
2	E	2001	LMT	O1'-C1'-C2'	3.33	112.24	108.04
2	A	1101	LMT	C3B-C4B-C5B	3.33	116.01	110.20
2	E	2003	LMT	O1B-C4'-C3'	3.37	115.86	107.17
2	C	2002	LMT	C2'-C3'-C4'	3.41	117.09	109.60
2	A	1102	LMT	C1B-O5B-C5B	3.42	120.38	113.75
2	D	2001	LMT	O1B-C1B-C2B	3.43	116.46	108.10
2	F	2001	LMT	O1'-C1'-C2'	3.50	112.46	108.04
2	B	2002	LMT	C1'-C2'-C3'	3.53	116.93	109.97
2	D	2002	LMT	O5'-C5'-C4'	3.53	117.21	109.75
2	A	1102	LMT	O1B-C1B-C2B	3.58	116.81	108.10
2	A	1101	LMT	O1B-C4'-C3'	3.60	116.47	107.17
2	E	2003	LMT	C3B-C4B-C5B	3.71	116.66	110.20
2	B	2003	LMT	O1'-C1'-C2'	3.72	112.73	108.04
2	B	2003	LMT	O5B-C5B-C4B	3.80	116.81	109.68
2	B	2002	LMT	C3B-C4B-C5B	3.86	116.92	110.20
2	F	2001	LMT	O1B-C4'-C5'	3.88	119.52	109.32
2	D	2002	LMT	C1B-O5B-C5B	3.89	121.30	113.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2002	LMT	C2'-C3'-C4'	3.95	118.27	109.60
2	D	2001	LMT	C1B-O5B-C5B	3.95	121.42	113.75
2	B	2002	LMT	C1'-O5'-C5'	3.97	121.46	113.75
2	F	2001	LMT	O5B-C5B-C6B	4.06	116.61	106.36
2	F	2001	LMT	C1'-C2'-C3'	4.06	117.98	109.97
2	A	1101	LMT	C1'-O5'-C5'	4.11	121.72	113.75
2	F	2002	LMT	C2'-C3'-C4'	4.14	118.68	109.60
2	F	2002	LMT	C1'-C2'-C3'	4.14	118.14	109.97
2	F	2001	LMT	C1-O1'-C1'	4.30	121.45	113.94
2	E	2002	LMT	C1'-O5'-C5'	4.39	122.26	113.75
2	B	2002	LMT	O5B-C5B-C4B	4.49	118.12	109.68
2	A	1102	LMT	O1'-C1'-C2'	4.82	114.12	108.04
2	E	2003	LMT	C1B-O5B-C5B	5.07	123.58	113.75
2	D	2003	LMT	O1'-C1'-C2'	5.35	114.79	108.04
2	B	2003	LMT	C1B-O5B-C5B	5.86	125.11	113.75

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

15 monomers are involved in 113 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1101	LMT	6	0
2	A	1102	LMT	6	0
2	B	2001	LMT	18	0
2	B	2002	LMT	1	0
2	B	2003	LMT	5	0
2	B	2004	LMT	4	0
2	C	2001	LMT	4	0
2	C	2002	LMT	14	0
2	D	2001	LMT	9	0
2	D	2002	LMT	3	0
2	D	2003	LMT	2	0
2	E	2001	LMT	21	0
2	E	2002	LMT	23	0
2	F	2001	LMT	6	0
2	F	2002	LMT	2	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	1017/1046 (97%)	0.94	150 (14%) 3 2	32, 75, 118, 160	0
1	B	1030/1046 (98%)	0.91	134 (13%) 5 4	29, 69, 112, 139	0
1	C	1030/1046 (98%)	1.08	195 (18%) 2 1	38, 77, 131, 172	0
1	D	1020/1046 (97%)	0.92	154 (15%) 3 2	29, 77, 121, 165	0
1	E	1030/1046 (98%)	0.99	174 (16%) 2 2	37, 83, 126, 159	0
1	F	1033/1046 (98%)	1.11	204 (19%) 1 1	39, 78, 132, 178	0
All	All	6160/6276 (98%)	0.99	1011 (16%) 2 2	29, 76, 125, 178	0

All (1011) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	742	LEU	15.0
1	C	738	LEU	11.9
1	E	599	LEU	10.2
1	B	253	VAL	10.0
1	E	774	GLY	9.7
1	F	742	LEU	9.6
1	C	257	GLY	9.5
1	F	739	GLY	8.8
1	E	214	ILE	8.8
1	F	144	SER	8.7
1	E	726	TYR	8.5
1	F	738	LEU	8.1
1	F	800	PHE	8.0
1	C	597	TYR	7.9
1	C	256	ASP	7.9
1	A	705	LEU	7.9
1	A	853	GLY	7.8
1	B	704	MET	7.8
1	C	853	GLY	7.8

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Mol	Chain	Res	Type	RSRZ
1	F	639	GLY	7.6
1	A	556	PHE	7.6
1	C	420	MET	7.5
1	B	605	SER	7.4
1	B	712	LEU	7.4
1	E	229	GLN	7.4
1	D	253	VAL	7.4
1	C	268	VAL	7.3
1	A	955	GLY	7.3
1	E	252	LYS	7.0
1	C	791	ARG	7.0
1	E	780	MET	6.9
1	C	800	PHE	6.9
1	F	597	TYR	6.9
1	F	148	SER	6.9
1	D	790	VAL	6.8
1	C	740	VAL	6.6
1	E	253	VAL	6.6
1	A	656	PHE	6.5
1	D	285	PRO	6.5
1	D	799	PRO	6.5
1	B	260	VAL	6.4
1	F	363	ARG	6.4
1	E	740	VAL	6.4
1	B	254	ASN	6.4
1	E	601	LYS	6.4
1	E	789	TYR	6.4
1	F	268	VAL	6.4
1	F	743	ALA	6.4
1	D	244	GLU	6.3
1	D	515	TRP	6.2
1	B	609	VAL	6.2
1	C	807	LYS	6.2
1	E	644	VAL	6.1
1	A	867	LEU	6.0
1	D	740	VAL	6.0
1	C	507	GLU	6.0
1	C	251	LEU	5.9
1	A	899	SER	5.8
1	D	252	LYS	5.8
1	A	706	ALA	5.8
1	D	659	LYS	5.8

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Mol	Chain	Res	Type	RSRZ
1	E	661	ALA	5.8
1	E	237	LYS	5.7
1	B	225	VAL	5.7
1	F	798	VAL	5.6
1	C	254	ASN	5.6
1	C	745	ILE	5.6
1	F	780	MET	5.6
1	C	778	ALA	5.6
1	A	655	PHE	5.6
1	E	702	PHE	5.6
1	A	253	VAL	5.6
1	C	790	VAL	5.6
1	D	658	PHE	5.5
1	D	268	VAL	5.5
1	A	850	LEU	5.5
1	C	810	TYR	5.5
1	C	198	LEU	5.5
1	F	196	TYR	5.5
1	A	657	SER	5.5
1	C	854	VAL	5.4
1	B	235	ILE	5.4
1	F	850	LEU	5.4
1	E	598	LEU	5.4
1	D	788	TRP	5.4
1	C	515	TRP	5.4
1	A	599	LEU	5.4
1	A	954	GLN	5.4
1	A	951	LEU	5.3
1	F	251	LEU	5.3
1	C	259	GLN	5.3
1	B	142	VAL	5.3
1	F	802	ALA	5.3
1	A	320	GLY	5.3
1	C	261	ARG	5.3
1	E	143	VAL	5.3
1	A	513	PHE	5.3
1	F	26	SER	5.3
1	F	824	MET	5.2
1	C	308	GLN	5.2
1	E	708	GLN	5.2
1	A	604	SER	5.2
1	E	260	VAL	5.2

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Mol	Chain	Res	Type	RSRZ
1	E	783	ASP	5.2
1	F	1030	LEU	5.1
1	C	801	ASN	5.1
1	B	286	ALA	5.1
1	C	510	GLY	5.1
1	B	255	PRO	5.1
1	B	600	GLU	5.1
1	C	798	VAL	5.0
1	B	848	LYS	5.0
1	E	236	GLY	5.0
1	C	516	PHE	5.0
1	B	145	THR	5.0
1	B	790	VAL	5.0
1	D	184	MET	5.0
1	A	869	GLY	5.0
1	E	846	ILE	5.0
1	C	661	ALA	4.9
1	C	599	LEU	4.9
1	B	606	VAL	4.9
1	C	642	ASN	4.9
1	B	196	TYR	4.9
1	D	272	GLY	4.9
1	A	650	ARG	4.8
1	D	803	PHE	4.8
1	E	286	ALA	4.8
1	D	798	VAL	4.8
1	C	196	TYR	4.8
1	C	425	LEU	4.8
1	B	237	LYS	4.8
1	D	961	ALA	4.7
1	F	794	LYS	4.7
1	D	260	VAL	4.7
1	F	797	MET	4.7
1	A	849	GLN	4.7
1	F	762	ILE	4.7
1	C	149	MET	4.7
1	C	363	ARG	4.7
1	D	735	ALA	4.7
1	A	542	LEU	4.7
1	B	262	LEU	4.7
1	B	261	ARG	4.7
1	E	803	PHE	4.7

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Mol	Chain	Res	Type	RSRZ
1	E	247	GLU	4.7
1	D	149	MET	4.7
1	D	867	LEU	4.7
1	A	710	PRO	4.6
1	A	677	ALA	4.6
1	E	262	LEU	4.6
1	C	808	TRP	4.6
1	F	735	ALA	4.6
1	B	362	PHE	4.6
1	A	735	ALA	4.6
1	F	801	ASN	4.6
1	E	809	GLU	4.6
1	C	739	GLY	4.6
1	C	508	HIS	4.6
1	F	430	ALA	4.5
1	F	698	ALA	4.5
1	F	425	LEU	4.5
1	E	565	PRO	4.5
1	D	266	ALA	4.5
1	D	711	ALA	4.5
1	F	54	ALA	4.5
1	C	260	VAL	4.5
1	E	798	VAL	4.5
1	F	707	ALA	4.5
1	F	252	LYS	4.5
1	B	800	PHE	4.5
1	F	655	PHE	4.5
1	F	854	VAL	4.5
1	D	810	TYR	4.5
1	D	601	LYS	4.4
1	F	253	VAL	4.4
1	D	559	ILE	4.4
1	A	711	ALA	4.4
1	C	733	GLU	4.4
1	E	630	MET	4.4
1	E	259	GLN	4.4
1	C	662	MET	4.4
1	A	321	MET	4.4
1	F	143	VAL	4.4
1	F	1031	PHE	4.4
1	F	790	VAL	4.4
1	E	738	LEU	4.4

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Mol	Chain	Res	Type	RSRZ
1	F	812	SER	4.4
1	B	636	GLU	4.3
1	B	144	SER	4.3
1	F	842	ALA	4.3
1	F	1033	ASP	4.3
1	D	261	ARG	4.3
1	F	706	ALA	4.3
1	F	846	ILE	4.3
1	D	513	PHE	4.3
1	A	362	PHE	4.3
1	D	362	PHE	4.3
1	F	255	PRO	4.3
1	F	604	SER	4.3
1	E	849	GLN	4.2
1	C	255	PRO	4.2
1	E	854	VAL	4.2
1	F	147	GLY	4.2
1	D	600	GLU	4.2
1	A	543	LEU	4.2
1	A	712	LEU	4.2
1	A	834	LEU	4.2
1	B	246	PHE	4.2
1	D	516	PHE	4.2
1	D	542	LEU	4.2
1	D	198	LEU	4.2
1	F	230	LEU	4.2
1	E	778	ALA	4.2
1	F	661	ALA	4.2
1	F	804	ALA	4.2
1	F	315	PRO	4.2
1	D	529	ARG	4.2
1	F	529	ARG	4.2
1	C	786	SER	4.1
1	F	257	GLY	4.1
1	F	320	GLY	4.1
1	F	703	LEU	4.1
1	D	736	SER	4.1
1	D	864	GLU	4.1
1	F	740	VAL	4.1
1	B	751	ILE	4.1
1	C	514	GLY	4.1
1	E	697	GLN	4.0

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Mol	Chain	Res	Type	RSRZ
1	E	810	TYR	4.0
1	A	539	ALA	4.0
1	F	753	TRP	4.0
1	F	258	SER	4.0
1	F	419	VAL	4.0
1	E	193	LEU	4.0
1	E	198	LEU	4.0
1	F	265	VAL	4.0
1	B	252	LYS	4.0
1	D	540	PRO	4.0
1	C	708	GLN	4.0
1	A	917	MET	4.0
1	F	508	HIS	4.0
1	F	209	ALA	3.9
1	C	658	PHE	3.9
1	D	633	PRO	3.9
1	E	235	ILE	3.9
1	E	254	ASN	3.9
1	F	596	GLU	3.9
1	B	236	GLY	3.9
1	C	28	LEU	3.9
1	D	651	ALA	3.9
1	C	753	TRP	3.9
1	C	983	GLY	3.9
1	C	690	VAL	3.9
1	D	267	ASP	3.9
1	A	840	MET	3.9
1	F	822	PRO	3.9
1	B	515	TRP	3.9
1	B	802	ALA	3.9
1	D	143	VAL	3.9
1	F	695	LEU	3.9
1	C	253	VAL	3.8
1	C	694	VAL	3.8
1	D	265	VAL	3.8
1	C	805	THR	3.8
1	A	818	TYR	3.8
1	D	866	ARG	3.8
1	A	826	ILE	3.8
1	F	261	ARG	3.8
1	C	500	ILE	3.8
1	D	188	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
1	B	195	SER	3.8
1	C	604	SER	3.8
1	C	206	ALA	3.8
1	D	248	ASN	3.8
1	D	761	PHE	3.8
1	A	535	LEU	3.8
1	B	598	LEU	3.8
1	C	741	SER	3.8
1	A	642	ASN	3.8
1	C	726	TYR	3.8
1	F	515	TRP	3.8
1	F	796	GLU	3.8
1	B	321	MET	3.7
1	F	840	MET	3.7
1	C	320	GLY	3.7
1	B	141	GLY	3.7
1	C	797	MET	3.7
1	E	639	GLY	3.7
1	F	791	ARG	3.7
1	D	224	ALA	3.7
1	A	682	LEU	3.7
1	C	505	HIS	3.7
1	C	852	LYS	3.7
1	A	191	ALA	3.7
1	D	270	LEU	3.7
1	E	852	LYS	3.7
1	C	783	ASP	3.7
1	C	799	PRO	3.7
1	A	260	VAL	3.7
1	A	75	LEU	3.7
1	D	786	SER	3.7
1	E	705	LEU	3.7
1	F	182	TYR	3.7
1	D	793	ASP	3.7
1	D	193	LEU	3.6
1	F	704	MET	3.6
1	E	557	THR	3.6
1	F	622	GLN	3.6
1	F	647	LEU	3.6
1	C	57	VAL	3.6
1	F	582	SER	3.6
1	A	540	PRO	3.6

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Mol	Chain	Res	Type	RSRZ
1	C	517	ASN	3.6
1	F	249	ILE	3.6
1	C	711	ALA	3.6
1	F	831	ALA	3.6
1	D	834	LEU	3.6
1	C	540	PRO	3.6
1	F	543	LEU	3.6
1	F	642	ASN	3.6
1	F	514	GLY	3.6
1	E	751	ILE	3.6
1	E	799	PRO	3.6
1	B	193	LEU	3.6
1	F	263	LYS	3.5
1	D	1027	VAL	3.5
1	C	638	PRO	3.5
1	E	234	ILE	3.5
1	A	786	SER	3.5
1	E	265	VAL	3.5
1	F	518	ARG	3.5
1	A	685	GLN	3.5
1	F	598	LEU	3.5
1	C	595	ARG	3.5
1	F	688	ALA	3.5
1	F	225	VAL	3.5
1	F	540	PRO	3.5
1	D	534	ILE	3.5
1	E	186	ILE	3.5
1	E	337	ILE	3.5
1	C	430	ALA	3.5
1	E	695	LEU	3.5
1	E	264	ASP	3.5
1	F	260	VAL	3.5
1	E	512	PHE	3.5
1	F	48	SER	3.5
1	F	620	ARG	3.5
1	F	631	LEU	3.5
1	E	421	ALA	3.5
1	E	251	LEU	3.4
1	E	555	MET	3.4
1	F	792	ASN	3.4
1	D	219	LEU	3.4
1	B	753	TRP	3.4

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Mol	Chain	Res	Type	RSRZ
1	E	225	VAL	3.4
1	B	792	ASN	3.4
1	E	258	SER	3.4
1	A	499	PRO	3.4
1	A	1029	THR	3.4
1	B	1030	LEU	3.4
1	C	582	SER	3.4
1	E	194	ASN	3.4
1	C	281	PHE	3.4
1	C	518	ARG	3.4
1	A	794	LYS	3.4
1	E	850	LEU	3.4
1	B	224	ALA	3.4
1	F	266	ALA	3.4
1	D	771	TYR	3.3
1	D	725	GLN	3.3
1	F	364	ALA	3.3
1	A	979	ALA	3.3
1	B	637	ARG	3.3
1	E	554	TRP	3.3
1	E	680	PHE	3.3
1	D	935	GLY	3.3
1	C	731	ASP	3.3
1	D	838	ASP	3.3
1	D	605	SER	3.3
1	F	513	PHE	3.3
1	E	731	ASP	3.3
1	E	537	HIS	3.3
1	A	149	MET	3.3
1	F	851	PRO	3.3
1	C	693	GLU	3.3
1	C	734	LYS	3.3
1	C	655	PHE	3.3
1	E	513	PHE	3.3
1	D	286	ALA	3.3
1	F	808	TRP	3.3
1	C	521	LEU	3.3
1	A	537	HIS	3.3
1	A	571	VAL	3.2
1	C	754	GLY	3.2
1	F	834	LEU	3.2
1	E	605	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	C	249	ILE	3.2
1	F	314	GLU	3.2
1	F	3	LYS	3.2
1	D	804	ALA	3.2
1	E	115	THR	3.2
1	D	794	LYS	3.2
1	F	806	GLY	3.2
1	B	917	MET	3.2
1	C	720	MET	3.2
1	E	664	PHE	3.2
1	F	727	LYS	3.2
1	F	778	ALA	3.2
1	F	234	ILE	3.2
1	A	459	PHE	3.2
1	C	531	VAL	3.2
1	F	605	SER	3.2
1	C	855	GLY	3.2
1	E	228	GLN	3.2
1	D	636	GLU	3.2
1	E	690	VAL	3.2
1	A	676	ASN	3.2
1	E	637	ARG	3.2
1	D	541	TYR	3.2
1	D	148	SER	3.2
1	A	775	ARG	3.2
1	E	788	TRP	3.2
1	B	263	LYS	3.1
1	C	539	ALA	3.1
1	D	153	ASP	3.1
1	B	500	ILE	3.1
1	C	695	LEU	3.1
1	C	705	LEU	3.1
1	D	606	VAL	3.1
1	B	198	LEU	3.1
1	B	785	LEU	3.1
1	C	362	PHE	3.1
1	C	615	PHE	3.1
1	C	761	PHE	3.1
1	A	618	ALA	3.1
1	C	509	LYS	3.1
1	E	654	HIS	3.1
1	C	247	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
1	F	694	VAL	3.1
1	E	991	THR	3.1
1	F	958	ILE	3.1
1	A	541	TYR	3.1
1	B	506	GLY	3.1
1	B	632	LYS	3.1
1	F	554	TRP	3.1
1	A	255	PRO	3.1
1	E	989	ILE	3.1
1	C	916	SER	3.1
1	A	864	GLU	3.1
1	B	146	ASP	3.1
1	C	809	GLU	3.1
1	D	661	ALA	3.1
1	D	797	MET	3.1
1	F	708	GLN	3.1
1	C	601	LYS	3.1
1	D	536	LYS	3.1
1	F	728	LEU	3.1
1	B	929	GLY	3.1
1	E	655	PHE	3.1
1	C	554	TRP	3.1
1	B	330	THR	3.0
1	C	250	LEU	3.0
1	E	261	ARG	3.0
1	C	506	GLY	3.0
1	B	214	ILE	3.0
1	C	186	ILE	3.0
1	B	554	TRP	3.0
1	C	780	MET	3.0
1	E	230	LEU	3.0
1	F	49	TYR	3.0
1	D	269	GLY	3.0
1	C	258	SER	3.0
1	E	579	PRO	3.0
1	E	800	PHE	3.0
1	D	124	ARG	3.0
1	C	788	TRP	3.0
1	E	808	TRP	3.0
1	F	244	GLU	3.0
1	B	364	ALA	3.0
1	C	688	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
1	E	196	TYR	3.0
1	C	701	LYS	3.0
1	A	547	VAL	3.0
1	D	705	LEU	3.0
1	D	742	LEU	3.0
1	D	655	PHE	3.0
1	D	147	GLY	3.0
1	B	363	ARG	2.9
1	F	599	LEU	2.9
1	E	851	PRO	2.9
1	E	231	ASN	2.9
1	A	154	LEU	2.9
1	A	678	THR	2.9
1	B	320	GLY	2.9
1	C	270	LEU	2.9
1	B	789	TYR	2.9
1	C	29	SER	2.9
1	F	12	ALA	2.9
1	F	841	ALA	2.9
1	C	94	PHE	2.9
1	E	638	PRO	2.9
1	F	594	MET	2.9
1	D	642	ASN	2.9
1	A	605	SER	2.9
1	C	824	MET	2.9
1	A	6	ILE	2.9
1	D	712	LEU	2.9
1	F	497	LEU	2.9
1	D	319	GLN	2.9
1	D	787	LYS	2.9
1	F	803	PHE	2.9
1	D	321	MET	2.9
1	E	676	ASN	2.9
1	E	745	ILE	2.9
1	C	603	SER	2.9
1	E	542	LEU	2.9
1	C	538	ARG	2.9
1	D	562	ALA	2.9
1	C	596	GLU	2.9
1	C	80	SER	2.9
1	F	47	VAL	2.9
1	A	833	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
1	E	830	PRO	2.9
1	E	305	ALA	2.8
1	A	894	TRP	2.8
1	F	666	PHE	2.8
1	A	545	TYR	2.8
1	F	157	TYR	2.8
1	B	553	ILE	2.8
1	B	558	ARG	2.8
1	C	367	ILE	2.8
1	C	647	LEU	2.8
1	C	812	SER	2.8
1	F	600	GLU	2.8
1	E	283	GLY	2.8
1	D	259	GLN	2.8
1	A	261	ARG	2.8
1	B	707	ALA	2.8
1	C	318	PRO	2.8
1	C	697	GLN	2.8
1	C	620	ARG	2.8
1	B	909	ILE	2.8
1	E	790	VAL	2.8
1	A	858	TRP	2.8
1	C	555	MET	2.8
1	B	501	GLU	2.8
1	B	498	LYS	2.8
1	D	538	ARG	2.8
1	F	638	PRO	2.8
1	F	267	ASP	2.8
1	B	951	LEU	2.8
1	F	51	GLY	2.8
1	B	234	ILE	2.8
1	A	1027	VAL	2.8
1	F	512	PHE	2.8
1	A	554	TRP	2.8
1	F	510	GLY	2.8
1	C	559	ILE	2.8
1	F	319	GLN	2.8
1	F	8	ARG	2.8
1	C	803	PHE	2.8
1	B	738	LEU	2.7
1	B	796	GLU	2.7
1	F	193	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
1	F	662	MET	2.7
1	C	792	ASN	2.7
1	A	832	PRO	2.7
1	A	675	GLY	2.7
1	C	501	GLU	2.7
1	C	850	LEU	2.7
1	F	259	GLN	2.7
1	A	549	VAL	2.7
1	A	702	PHE	2.7
1	A	724	PRO	2.7
1	B	451	ALA	2.7
1	C	421	ALA	2.7
1	B	748	THR	2.7
1	D	512	PHE	2.7
1	F	246	PHE	2.7
1	B	795	GLY	2.7
1	D	774	GLY	2.7
1	A	249	ILE	2.7
1	C	321	MET	2.7
1	A	557	THR	2.7
1	B	460	GLY	2.7
1	B	570	GLY	2.7
1	B	656	PHE	2.7
1	C	639	GLY	2.7
1	D	246	PHE	2.7
1	E	506	GLY	2.7
1	F	583	SER	2.7
1	E	515	TRP	2.7
1	F	1032	LYS	2.7
1	E	57	VAL	2.7
1	E	704	MET	2.7
1	E	706	ALA	2.7
1	E	583	SER	2.7
1	D	772	LEU	2.7
1	F	198	LEU	2.7
1	B	989	ILE	2.7
1	B	427	PRO	2.7
1	E	144	SER	2.7
1	A	265	VAL	2.7
1	F	86	GLY	2.7
1	B	258	SER	2.7
1	F	254	ASN	2.7

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Mol	Chain	Res	Type	RSRZ
1	E	256	ASP	2.7
1	D	789	TYR	2.7
1	D	543	LEU	2.6
1	A	529	ARG	2.6
1	D	514	GLY	2.6
1	F	744	ASP	2.6
1	B	810	TYR	2.6
1	A	307	ARG	2.6
1	B	834	LEU	2.6
1	D	728	LEU	2.6
1	F	731	ASP	2.6
1	A	419	VAL	2.6
1	B	778	ALA	2.6
1	D	287	SER	2.6
1	E	243	ALA	2.6
1	F	82	SER	2.6
1	A	166	LEU	2.6
1	C	712	LEU	2.6
1	E	684	LEU	2.6
1	D	78	ILE	2.6
1	F	214	ILE	2.6
1	A	839	ALA	2.6
1	E	610	PHE	2.6
1	F	653	MET	2.6
1	D	1022	LEU	2.6
1	E	240	LEU	2.6
1	C	33	ASN	2.6
1	E	701	LYS	2.6
1	A	740	VAL	2.6
1	B	239	ARG	2.6
1	B	775	ARG	2.6
1	E	80	SER	2.6
1	B	248	ASN	2.6
1	E	814	LYS	2.6
1	A	559	ILE	2.6
1	D	603	SER	2.6
1	D	175	PHE	2.6
1	E	710	PRO	2.6
1	C	698	ALA	2.6
1	A	623	SER	2.6
1	C	785	LEU	2.6
1	D	524	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	E	642	ASN	2.6
1	E	757	TYR	2.6
1	E	586	ARG	2.6
1	F	652	GLN	2.6
1	E	281	PHE	2.6
1	E	556	PHE	2.6
1	D	539	ALA	2.5
1	F	431	ALA	2.5
1	A	684	LEU	2.5
1	F	712	LEU	2.5
1	C	356	TYR	2.5
1	C	660	ASP	2.5
1	D	807	LYS	2.5
1	A	868	SER	2.5
1	A	316	PHE	2.5
1	E	683	PHE	2.5
1	A	828	GLY	2.5
1	E	511	GLY	2.5
1	F	532	ALA	2.5
1	B	674	LEU	2.5
1	A	145	THR	2.5
1	B	149	MET	2.5
1	E	362	PHE	2.5
1	A	248	ASN	2.5
1	D	779	ARG	2.5
1	E	1015	LEU	2.5
1	A	498	LYS	2.5
1	F	229	GLN	2.5
1	E	600	GLU	2.5
1	F	507	GLU	2.5
1	E	626	MET	2.5
1	F	183	SER	2.5
1	A	601	LYS	2.5
1	C	431	ALA	2.5
1	F	188	LEU	2.5
1	C	840	MET	2.5
1	D	597	TYR	2.5
1	F	726	TYR	2.5
1	E	363	ARG	2.5
1	A	577	GLN	2.5
1	E	761	PHE	2.5
1	B	191	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	425	LEU	2.5
1	D	230	LEU	2.5
1	D	262	LEU	2.5
1	D	778	ALA	2.5
1	C	653	MET	2.5
1	A	728	LEU	2.5
1	D	888	ALA	2.5
1	E	491	ALA	2.5
1	B	496	MET	2.5
1	E	917	MET	2.5
1	B	244	GLU	2.5
1	E	771	TYR	2.5
1	F	356	TYR	2.5
1	F	241	GLN	2.5
1	F	190	PRO	2.5
1	E	631	LEU	2.5
1	E	804	ALA	2.5
1	F	603	SER	2.5
1	D	264	ASP	2.5
1	C	1019	TRP	2.5
1	E	656	PHE	2.5
1	B	703	LEU	2.4
1	D	535	LEU	2.4
1	F	28	LEU	2.4
1	C	277	ILE	2.4
1	D	585	GLU	2.4
1	C	217	GLY	2.4
1	C	272	GLY	2.4
1	F	116	PRO	2.4
1	D	363	ARG	2.4
1	D	591	VAL	2.4
1	F	224	ALA	2.4
1	F	928	VAL	2.4
1	A	991	THR	2.4
1	C	524	THR	2.4
1	F	581	GLY	2.4
1	A	425	LEU	2.4
1	E	383	LEU	2.4
1	B	265	VAL	2.4
1	C	503	GLY	2.4
1	D	263	LYS	2.4
1	E	227	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	C	746	ASN	2.4
1	F	88	MET	2.4
1	C	262	LEU	2.4
1	D	738	LEU	2.4
1	F	696	LEU	2.4
1	B	24	GLY	2.4
1	C	226	LYS	2.4
1	D	770	VAL	2.4
1	C	424	GLY	2.4
1	F	625	GLY	2.4
1	C	777	ASP	2.4
1	A	573	PHE	2.4
1	C	728	LEU	2.4
1	F	118	LEU	2.4
1	B	539	ALA	2.4
1	E	842	ALA	2.4
1	F	745	ILE	2.4
1	F	805	THR	2.4
1	B	315	PRO	2.4
1	A	863	TYR	2.4
1	D	531	VAL	2.4
1	F	606	VAL	2.4
1	D	231	ASN	2.4
1	A	552	MET	2.4
1	E	285	PRO	2.4
1	C	182	TYR	2.4
1	D	757	TYR	2.4
1	A	550	ALA	2.4
1	B	845	GLU	2.4
1	B	928	VAL	2.4
1	E	52	ALA	2.4
1	F	423	GLU	2.4
1	F	737	ALA	2.4
1	E	538	ARG	2.4
1	A	625	GLY	2.3
1	E	519	MET	2.3
1	F	327	TYR	2.3
1	C	225	VAL	2.3
1	C	189	ASP	2.3
1	E	360	GLN	2.3
1	C	190	PRO	2.3
1	C	600	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
1	F	420	MET	2.3
1	F	435	MET	2.3
1	D	467	TYR	2.3
1	A	225	VAL	2.3
1	A	731	ASP	2.3
1	D	323	VAL	2.3
1	D	537	HIS	2.3
1	B	162	ILE	2.3
1	B	192	LYS	2.3
1	C	128	ARG	2.3
1	C	512	PHE	2.3
1	F	656	PHE	2.3
1	C	138	MET	2.3
1	C	704	MET	2.3
1	A	416	VAL	2.3
1	B	182	TYR	2.3
1	C	504	ASP	2.3
1	D	187	TRP	2.3
1	D	356	TYR	2.3
1	E	224	ALA	2.3
1	F	849	GLN	2.3
1	E	47	VAL	2.3
1	A	578	THR	2.3
1	A	976	THR	2.3
1	B	60	THR	2.3
1	B	249	ILE	2.3
1	B	934	ILE	2.3
1	E	517	ASN	2.3
1	A	516	PHE	2.3
1	A	672	LEU	2.3
1	B	250	LEU	2.3
1	B	851	PRO	2.3
1	C	898	PHE	2.3
1	E	560	PRO	2.3
1	E	834	LEU	2.3
1	A	871	GLN	2.3
1	C	784	ASP	2.3
1	E	241	GLN	2.3
1	C	659	LYS	2.3
1	E	1003	THR	2.3
1	F	145	THR	2.3
1	F	236	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	E	255	PRO	2.3
1	E	824	MET	2.3
1	F	747	SER	2.3
1	D	796	GLU	2.3
1	E	844	GLU	2.3
1	C	325	TYR	2.3
1	D	676	ASN	2.3
1	C	578	THR	2.3
1	D	199	THR	2.3
1	B	272	GLY	2.3
1	C	815	LEU	2.3
1	F	645	PHE	2.3
1	D	816	GLU	2.3
1	D	700	ASN	2.3
1	D	518	ARG	2.3
1	E	510	GLY	2.3
1	B	852	LYS	2.3
1	E	188	LEU	2.3
1	F	5	PHE	2.3
1	C	888	ALA	2.3
1	F	156	ASN	2.3
1	E	908	VAL	2.3
1	A	856	TYR	2.3
1	B	935	GLY	2.3
1	E	1019	TRP	2.3
1	F	511	GLY	2.3
1	D	190	PRO	2.2
1	E	669	PRO	2.2
1	C	195	SER	2.2
1	B	967	ARG	2.2
1	B	924	VAL	2.2
1	E	734	LYS	2.2
1	E	316	PHE	2.2
1	A	538	ARG	2.2
1	F	194	ASN	2.2
1	A	319	GLN	2.2
1	A	843	VAL	2.2
1	B	268	VAL	2.2
1	B	324	VAL	2.2
1	D	177	VAL	2.2
1	B	846	ILE	2.2
1	D	748	THR	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	542	LEU	2.2
1	F	146	ASP	2.2
1	C	200	PRO	2.2
1	D	326	PRO	2.2
1	F	721	SER	2.2
1	A	661	ALA	2.2
1	E	665	ALA	2.2
1	F	640	GLY	2.2
1	A	496	MET	2.2
1	C	502	LYS	2.2
1	D	656	PHE	2.2
1	E	2	SER	2.2
1	F	741	SER	2.2
1	B	574	ALA	2.2
1	A	1020	VAL	2.2
1	E	62	VAL	2.2
1	E	653	MET	2.2
1	A	808	TRP	2.2
1	B	634	TRP	2.2
1	C	291	ILE	2.2
1	E	699	ARG	2.2
1	A	77	TYR	2.2
1	B	931	LEU	2.2
1	F	783	ASP	2.2
1	D	809	GLU	2.2
1	B	503	GLY	2.2
1	F	734	LYS	2.2
1	A	13	TRP	2.2
1	D	991	THR	2.2
1	F	313	LEU	2.2
1	A	641	GLU	2.2
1	D	533	SER	2.2
1	C	732	ASP	2.2
1	D	936	LEU	2.2
1	E	829	GLU	2.2
1	F	43	ILE	2.2
1	F	634	TRP	2.2
1	F	635	GLU	2.2
1	A	148	SER	2.2
1	A	257	GLY	2.2
1	B	774	GLY	2.2
1	E	540	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	573	PHE	2.2
1	F	628	PHE	2.2
1	C	637	ARG	2.2
1	B	256	ASP	2.2
1	D	693	GLU	2.2
1	D	758	VAL	2.2
1	B	670	SER	2.1
1	D	734	LYS	2.1
1	E	87	SER	2.1
1	C	802	ALA	2.1
1	B	210	GLN	2.1
1	F	793	ASP	2.1
1	C	351	VAL	2.1
1	E	321	MET	2.1
1	A	402	ILE	2.1
1	F	90	ILE	2.1
1	F	548	ILE	2.1
1	C	537	HIS	2.1
1	A	266	ALA	2.1
1	A	805	THR	2.1
1	C	265	VAL	2.1
1	C	747	SER	2.1
1	D	899	SER	2.1
1	E	195	SER	2.1
1	E	857	SER	2.1
1	E	753	TRP	2.1
1	B	509	LYS	2.1
1	C	831	ALA	2.1
1	A	670	SER	2.1
1	B	492	LEU	2.1
1	D	144	SER	2.1
1	D	850	LEU	2.1
1	E	424	GLY	2.1
1	E	558	ARG	2.1
1	E	43	ILE	2.1
1	F	149	MET	2.1
1	B	560	PRO	2.1
1	F	636	GLU	2.1
1	B	371	ALA	2.1
1	C	677	ALA	2.1
1	A	598	LEU	2.1
1	B	603	SER	2.1

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Mol	Chain	Res	Type	RSRZ
1	E	268	VAL	2.1
1	A	1009	MET	2.1
1	C	718	ASN	2.1
1	F	541	TYR	2.1
1	F	891	TYR	2.1
1	C	586	ARG	2.1
1	C	735	ALA	2.1
1	B	461	GLY	2.1
1	C	657	SER	2.1
1	D	649	LYS	2.1
1	A	329	THR	2.1
1	A	1025	VAL	2.1
1	B	331	PRO	2.1
1	C	577	GLN	2.1
1	D	800	PHE	2.1
1	A	673	GLU	2.1
1	C	719	GLY	2.1
1	C	935	GLY	2.1
1	C	497	LEU	2.1
1	D	598	LEU	2.1
1	F	755	SER	2.1
1	A	609	VAL	2.1
1	B	159	VAL	2.1
1	B	259	GLN	2.1
1	A	617	PHE	2.1
1	C	776	PRO	2.1
1	E	149	MET	2.1
1	A	659	LYS	2.1
1	B	301	ASP	2.1
1	C	794	LYS	2.1
1	D	192	LYS	2.1
1	F	239	ARG	2.1
1	A	196	TYR	2.1
1	A	665	ALA	2.1
1	B	302	THR	2.0
1	A	192	LYS	2.0
1	A	515	TRP	2.0
1	A	568	ASP	2.0
1	E	839	ALA	2.0
1	D	943	LEU	2.0
1	A	143	VAL	2.0
1	A	524	THR	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	416	VAL	2.0
1	A	348	ILE	2.0
1	E	724	PRO	2.0
1	D	739	GLY	2.0
1	C	588	GLN	2.0
1	D	839	ALA	2.0
1	C	282	ASN	2.0
1	E	712	LEU	2.0
1	E	1024	TYR	2.0
1	A	600	GLU	2.0
1	B	557	THR	2.0
1	C	523	THR	2.0
1	F	362	PHE	2.0
1	A	310	ILE	2.0
1	D	291	ILE	2.0
1	C	522	SER	2.0
1	A	785	LEU	2.0
1	B	161	ASN	2.0
1	D	599	LEU	2.0
1	A	595	ARG	2.0
1	F	779	ARG	2.0
1	A	531	VAL	2.0
1	B	678	THR	2.0
1	C	610	PHE	2.0
1	D	386	PHE	2.0
1	F	520	PHE	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
2	LMT	E	2001	35/35	0.86	0.43	5.16	67,74,100,103	0
2	LMT	E	2002	35/35	0.71	0.38	5.10	67,106,124,132	0
2	LMT	B	2002	35/35	0.65	0.41	5.08	63,106,135,137	0
2	LMT	F	2002	35/35	0.66	0.39	4.27	76,118,147,148	0
2	LMT	B	2001	35/35	0.65	0.37	3.89	75,97,124,139	0
2	LMT	E	2003	35/35	0.66	0.35	3.71	67,94,108,124	0
2	LMT	C	2002	35/35	0.70	0.36	3.63	80,105,146,151	0
2	LMT	D	2001	35/35	0.61	0.55	3.37	47,65,79,89	35
2	LMT	D	2002	35/35	0.73	0.34	3.05	69,111,137,144	0
2	LMT	A	1101	35/35	0.80	0.36	2.88	60,86,132,142	0
2	LMT	A	1102	35/35	0.74	0.38	2.40	64,90,115,120	0
2	LMT	D	2003	35/35	0.75	0.39	2.08	70,98,134,144	0
2	LMT	C	2001	35/35	0.75	0.42	1.81	43,66,94,103	0
2	LMT	B	2004	35/35	0.85	0.33	1.73	62,69,78,84	0
2	LMT	F	2001	35/35	0.70	0.38	1.39	82,104,126,139	0
2	LMT	B	2003	35/35	0.81	0.25	0.19	71,82,104,111	0

6.5 Other polymers

There are no such residues in this entry.