



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 4, 2026 – 12:33 PM EDT

PDB ID : 4V81 / pdb_00004v81
Title : The crystal structure of yeast CCT reveals intrinsic asymmetry of eukaryotic cytosolic chaperonins
Authors : Dekker, C.; Roe, S.M.; McCormack, E.A.; Beuron, F.; Pearl, L.H.; Willison, K.R.
Deposited on : 2010-10-17
Resolution : 3.80 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

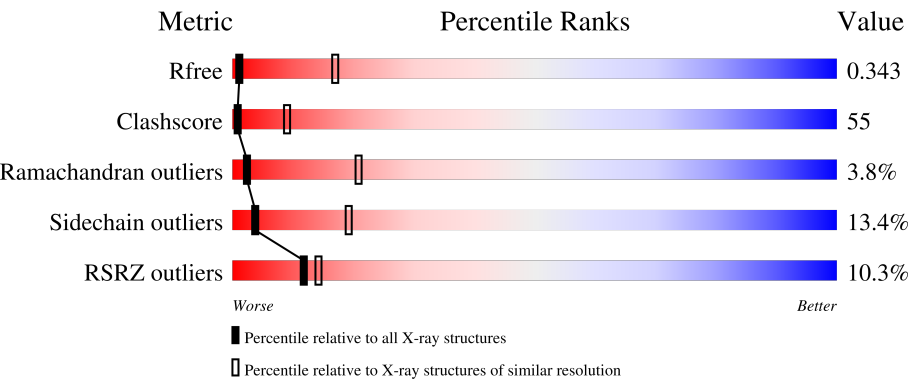
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1065 (3.96-3.64)
Clashscore	190562	1012 (3.94-3.66)
Ramachandran outliers	187476	1048 (3.96-3.64)
Sidechain outliers	187428	1043 (3.96-3.64)
RSRZ outliers	180081	1064 (3.96-3.64)

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

Mol	Chain	Length	Quality of chain
1	A	559	8% 51%39%6%
1	I	559	10% 52%38%6%
1	a	559	4% 52%38%6%
1	i	559	7% 52%39%6%

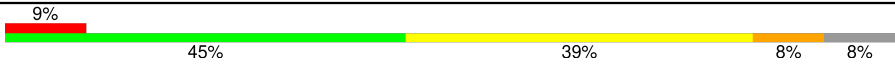
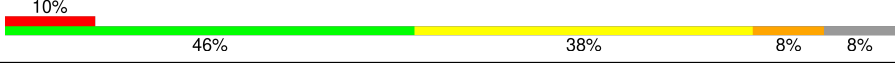
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Mol	Chain	Length	Quality of chain
2	B	527	
2	J	527	
2	b	527	
2	j	527	
3	C	590	
3	K	590	
3	c	590	
3	k	590	
4	D	528	
4	L	528	
4	d	528	
4	l	528	
5	E	562	
5	M	562	
5	e	562	
5	m	562	
6	F	546	
6	N	546	
6	f	546	
6	n	546	
7	G	550	
7	O	550	
7	g	550	
7	o	550	
8	H	568	

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Mol	Chain	Length	Quality of chain
8	P	568	
8	h	568	
8	p	568	

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
10	BEF	C	1102	-	-	X	-
10	BEF	F	602	-	-	X	-
10	BEF	N	602	-	-	X	-
10	BEF	n	1602	-	-	-	X
9	ADP	A	601	X	-	-	-
9	ADP	B	601	X	-	-	-
9	ADP	C	1101	X	-	-	-
9	ADP	D	601	X	-	-	-
9	ADP	E	601	X	-	-	-
9	ADP	G	601	X	-	-	-
9	ADP	H	601	X	-	-	-
9	ADP	J	601	X	-	-	-
9	ADP	M	601	X	-	-	-
9	ADP	N	601	X	-	-	-
9	ADP	P	601	X	-	-	-
9	ADP	a	1601	X	-	-	-
9	ADP	b	1601	X	-	-	-
9	ADP	e	1601	X	-	-	-
9	ADP	f	1601	X	-	-	-
9	ADP	g	1601	X	-	-	-
9	ADP	h	1601	X	-	-	-
9	ADP	k	2101	X	-	X	-
9	ADP	m	1601	X	-	-	-
9	ADP	n	1601	X	-	-	-
9	ADP	p	1601	X	-	-	-

2 Entry composition

There are 12 unique types of molecules in this entry. The entry contains 111235 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 T-complex protein 1 subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			
1	I	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			
1	a	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			
1	i	544	Total	C	N	O	S	0	0	0
			3492	2146	600	732	14			

- Molecule 2 is a protein called T-complex protein 1 subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	513	Total	C	N	O	S	0	0	0
			3459	2125	597	728	9			
2	J	513	Total	C	N	O	S	0	0	0
			3459	2125	597	728	9			
2	b	513	Total	C	N	O	S	0	0	0
			3460	2126	597	728	9			
2	j	513	Total	C	N	O	S	0	0	0
			3457	2123	597	728	9			

- Molecule 3 is a protein called T-complex protein 1 subunit gamma.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	514	Total	C	N	O	S	0	0	0
			3392	2104	590	685	13			
3	K	514	Total	C	N	O	S	0	0	0
			3393	2104	590	685	14			
3	c	514	Total	C	N	O	S	0	0	0
			3395	2106	590	685	14			
3	k	514	Total	C	N	O	S	0	0	0
			3395	2106	590	685	14			

There are 224 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	1001	GLY	-	SEE REMARK 999	UNP P39077
C	1002	SER	-	SEE REMARK 999	UNP P39077
C	1003	GLY	-	SEE REMARK 999	UNP P39077
C	1004	SER	-	SEE REMARK 999	UNP P39077
C	1005	GLY	-	SEE REMARK 999	UNP P39077
C	1006	TRP	-	SEE REMARK 999	UNP P39077
C	1007	SER	-	SEE REMARK 999	UNP P39077
C	1008	HIS	-	SEE REMARK 999	UNP P39077
C	1009	PRO	-	SEE REMARK 999	UNP P39077
C	1010	GLN	-	SEE REMARK 999	UNP P39077
C	1011	PHE	-	SEE REMARK 999	UNP P39077
C	1012	GLU	-	SEE REMARK 999	UNP P39077
C	1013	LYS	-	SEE REMARK 999	UNP P39077
C	1014	GLY	-	SEE REMARK 999	UNP P39077
C	1015	SER	-	SEE REMARK 999	UNP P39077
C	1016	GLY	-	SEE REMARK 999	UNP P39077
C	1017	LYS	-	SEE REMARK 999	UNP P39077
C	1018	ARG	-	SEE REMARK 999	UNP P39077
C	1019	ARG	-	SEE REMARK 999	UNP P39077
C	1020	TRP	-	SEE REMARK 999	UNP P39077
C	1021	LYS	-	SEE REMARK 999	UNP P39077
C	1022	LYS	-	SEE REMARK 999	UNP P39077
C	1023	ASN	-	SEE REMARK 999	UNP P39077
C	1024	PHE	-	SEE REMARK 999	UNP P39077
C	1025	ILE	-	SEE REMARK 999	UNP P39077
C	1026	ALA	-	SEE REMARK 999	UNP P39077
C	1027	VAL	-	SEE REMARK 999	UNP P39077
C	1028	SER	-	SEE REMARK 999	UNP P39077
C	1029	ALA	-	SEE REMARK 999	UNP P39077
C	1030	ALA	-	SEE REMARK 999	UNP P39077
C	1031	ASN	-	SEE REMARK 999	UNP P39077
C	1032	ARG	-	SEE REMARK 999	UNP P39077
C	1033	PHE	-	SEE REMARK 999	UNP P39077
C	1034	LYS	-	SEE REMARK 999	UNP P39077
C	1035	LYS	-	SEE REMARK 999	UNP P39077
C	1036	ILE	-	SEE REMARK 999	UNP P39077
C	1037	SER	-	SEE REMARK 999	UNP P39077
C	1038	SER	-	SEE REMARK 999	UNP P39077
C	1039	SER	-	SEE REMARK 999	UNP P39077
C	1040	GLY	-	SEE REMARK 999	UNP P39077
C	1041	ALA	-	SEE REMARK 999	UNP P39077
C	1042	LEU	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1043	GLY	-	SEE REMARK 999	UNP P39077
C	1044	SER	-	SEE REMARK 999	UNP P39077
C	1045	GLY	-	SEE REMARK 999	UNP P39077
C	1046	HIS	-	SEE REMARK 999	UNP P39077
C	1047	HIS	-	SEE REMARK 999	UNP P39077
C	1048	HIS	-	SEE REMARK 999	UNP P39077
C	1049	HIS	-	SEE REMARK 999	UNP P39077
C	1050	HIS	-	SEE REMARK 999	UNP P39077
C	1051	HIS	-	SEE REMARK 999	UNP P39077
C	1052	HIS	-	SEE REMARK 999	UNP P39077
C	1053	HIS	-	SEE REMARK 999	UNP P39077
C	1054	GLY	-	SEE REMARK 999	UNP P39077
C	1055	SER	-	SEE REMARK 999	UNP P39077
C	1056	GLY	-	SEE REMARK 999	UNP P39077
K	1001	GLY	-	SEE REMARK 999	UNP P39077
K	1002	SER	-	SEE REMARK 999	UNP P39077
K	1003	GLY	-	SEE REMARK 999	UNP P39077
K	1004	SER	-	SEE REMARK 999	UNP P39077
K	1005	GLY	-	SEE REMARK 999	UNP P39077
K	1006	TRP	-	SEE REMARK 999	UNP P39077
K	1007	SER	-	SEE REMARK 999	UNP P39077
K	1008	HIS	-	SEE REMARK 999	UNP P39077
K	1009	PRO	-	SEE REMARK 999	UNP P39077
K	1010	GLN	-	SEE REMARK 999	UNP P39077
K	1011	PHE	-	SEE REMARK 999	UNP P39077
K	1012	GLU	-	SEE REMARK 999	UNP P39077
K	1013	LYS	-	SEE REMARK 999	UNP P39077
K	1014	GLY	-	SEE REMARK 999	UNP P39077
K	1015	SER	-	SEE REMARK 999	UNP P39077
K	1016	GLY	-	SEE REMARK 999	UNP P39077
K	1017	LYS	-	SEE REMARK 999	UNP P39077
K	1018	ARG	-	SEE REMARK 999	UNP P39077
K	1019	ARG	-	SEE REMARK 999	UNP P39077
K	1020	TRP	-	SEE REMARK 999	UNP P39077
K	1021	LYS	-	SEE REMARK 999	UNP P39077
K	1022	LYS	-	SEE REMARK 999	UNP P39077
K	1023	ASN	-	SEE REMARK 999	UNP P39077
K	1024	PHE	-	SEE REMARK 999	UNP P39077
K	1025	ILE	-	SEE REMARK 999	UNP P39077
K	1026	ALA	-	SEE REMARK 999	UNP P39077
K	1027	VAL	-	SEE REMARK 999	UNP P39077
K	1028	SER	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
K	1029	ALA	-	SEE REMARK 999	UNP P39077
K	1030	ALA	-	SEE REMARK 999	UNP P39077
K	1031	ASN	-	SEE REMARK 999	UNP P39077
K	1032	ARG	-	SEE REMARK 999	UNP P39077
K	1033	PHE	-	SEE REMARK 999	UNP P39077
K	1034	LYS	-	SEE REMARK 999	UNP P39077
K	1035	LYS	-	SEE REMARK 999	UNP P39077
K	1036	ILE	-	SEE REMARK 999	UNP P39077
K	1037	SER	-	SEE REMARK 999	UNP P39077
K	1038	SER	-	SEE REMARK 999	UNP P39077
K	1039	SER	-	SEE REMARK 999	UNP P39077
K	1040	GLY	-	SEE REMARK 999	UNP P39077
K	1041	ALA	-	SEE REMARK 999	UNP P39077
K	1042	LEU	-	SEE REMARK 999	UNP P39077
K	1043	GLY	-	SEE REMARK 999	UNP P39077
K	1044	SER	-	SEE REMARK 999	UNP P39077
K	1045	GLY	-	SEE REMARK 999	UNP P39077
K	1046	HIS	-	SEE REMARK 999	UNP P39077
K	1047	HIS	-	SEE REMARK 999	UNP P39077
K	1048	HIS	-	SEE REMARK 999	UNP P39077
K	1049	HIS	-	SEE REMARK 999	UNP P39077
K	1050	HIS	-	SEE REMARK 999	UNP P39077
K	1051	HIS	-	SEE REMARK 999	UNP P39077
K	1052	HIS	-	SEE REMARK 999	UNP P39077
K	1053	HIS	-	SEE REMARK 999	UNP P39077
K	1054	GLY	-	SEE REMARK 999	UNP P39077
K	1055	SER	-	SEE REMARK 999	UNP P39077
K	1056	GLY	-	SEE REMARK 999	UNP P39077
c	2001	GLY	-	SEE REMARK 999	UNP P39077
c	2002	SER	-	SEE REMARK 999	UNP P39077
c	2003	GLY	-	SEE REMARK 999	UNP P39077
c	2004	SER	-	SEE REMARK 999	UNP P39077
c	2005	GLY	-	SEE REMARK 999	UNP P39077
c	2006	TRP	-	SEE REMARK 999	UNP P39077
c	2007	SER	-	SEE REMARK 999	UNP P39077
c	2008	HIS	-	SEE REMARK 999	UNP P39077
c	2009	PRO	-	SEE REMARK 999	UNP P39077
c	2010	GLN	-	SEE REMARK 999	UNP P39077
c	2011	PHE	-	SEE REMARK 999	UNP P39077
c	2012	GLU	-	SEE REMARK 999	UNP P39077
c	2013	LYS	-	SEE REMARK 999	UNP P39077
c	2014	GLY	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
c	2015	SER	-	SEE REMARK 999	UNP P39077
c	2016	GLY	-	SEE REMARK 999	UNP P39077
c	2017	LYS	-	SEE REMARK 999	UNP P39077
c	2018	ARG	-	SEE REMARK 999	UNP P39077
c	2019	ARG	-	SEE REMARK 999	UNP P39077
c	2020	TRP	-	SEE REMARK 999	UNP P39077
c	2021	LYS	-	SEE REMARK 999	UNP P39077
c	2022	LYS	-	SEE REMARK 999	UNP P39077
c	2023	ASN	-	SEE REMARK 999	UNP P39077
c	2024	PHE	-	SEE REMARK 999	UNP P39077
c	2025	ILE	-	SEE REMARK 999	UNP P39077
c	2026	ALA	-	SEE REMARK 999	UNP P39077
c	2027	VAL	-	SEE REMARK 999	UNP P39077
c	2028	SER	-	SEE REMARK 999	UNP P39077
c	2029	ALA	-	SEE REMARK 999	UNP P39077
c	2030	ALA	-	SEE REMARK 999	UNP P39077
c	2031	ASN	-	SEE REMARK 999	UNP P39077
c	2032	ARG	-	SEE REMARK 999	UNP P39077
c	2033	PHE	-	SEE REMARK 999	UNP P39077
c	2034	LYS	-	SEE REMARK 999	UNP P39077
c	2035	LYS	-	SEE REMARK 999	UNP P39077
c	2036	ILE	-	SEE REMARK 999	UNP P39077
c	2037	SER	-	SEE REMARK 999	UNP P39077
c	2038	SER	-	SEE REMARK 999	UNP P39077
c	2039	SER	-	SEE REMARK 999	UNP P39077
c	2040	GLY	-	SEE REMARK 999	UNP P39077
c	2041	ALA	-	SEE REMARK 999	UNP P39077
c	2042	LEU	-	SEE REMARK 999	UNP P39077
c	2043	GLY	-	SEE REMARK 999	UNP P39077
c	2044	SER	-	SEE REMARK 999	UNP P39077
c	2045	GLY	-	SEE REMARK 999	UNP P39077
c	2046	HIS	-	SEE REMARK 999	UNP P39077
c	2047	HIS	-	SEE REMARK 999	UNP P39077
c	2048	HIS	-	SEE REMARK 999	UNP P39077
c	2049	HIS	-	SEE REMARK 999	UNP P39077
c	2050	HIS	-	SEE REMARK 999	UNP P39077
c	2051	HIS	-	SEE REMARK 999	UNP P39077
c	2052	HIS	-	SEE REMARK 999	UNP P39077
c	2053	HIS	-	SEE REMARK 999	UNP P39077
c	2054	GLY	-	SEE REMARK 999	UNP P39077
c	2055	SER	-	SEE REMARK 999	UNP P39077
c	2056	GLY	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
k	2001	GLY	-	SEE REMARK 999	UNP P39077
k	2002	SER	-	SEE REMARK 999	UNP P39077
k	2003	GLY	-	SEE REMARK 999	UNP P39077
k	2004	SER	-	SEE REMARK 999	UNP P39077
k	2005	GLY	-	SEE REMARK 999	UNP P39077
k	2006	TRP	-	SEE REMARK 999	UNP P39077
k	2007	SER	-	SEE REMARK 999	UNP P39077
k	2008	HIS	-	SEE REMARK 999	UNP P39077
k	2009	PRO	-	SEE REMARK 999	UNP P39077
k	2010	GLN	-	SEE REMARK 999	UNP P39077
k	2011	PHE	-	SEE REMARK 999	UNP P39077
k	2012	GLU	-	SEE REMARK 999	UNP P39077
k	2013	LYS	-	SEE REMARK 999	UNP P39077
k	2014	GLY	-	SEE REMARK 999	UNP P39077
k	2015	SER	-	SEE REMARK 999	UNP P39077
k	2016	GLY	-	SEE REMARK 999	UNP P39077
k	2017	LYS	-	SEE REMARK 999	UNP P39077
k	2018	ARG	-	SEE REMARK 999	UNP P39077
k	2019	ARG	-	SEE REMARK 999	UNP P39077
k	2020	TRP	-	SEE REMARK 999	UNP P39077
k	2021	LYS	-	SEE REMARK 999	UNP P39077
k	2022	LYS	-	SEE REMARK 999	UNP P39077
k	2023	ASN	-	SEE REMARK 999	UNP P39077
k	2024	PHE	-	SEE REMARK 999	UNP P39077
k	2025	ILE	-	SEE REMARK 999	UNP P39077
k	2026	ALA	-	SEE REMARK 999	UNP P39077
k	2027	VAL	-	SEE REMARK 999	UNP P39077
k	2028	SER	-	SEE REMARK 999	UNP P39077
k	2029	ALA	-	SEE REMARK 999	UNP P39077
k	2030	ALA	-	SEE REMARK 999	UNP P39077
k	2031	ASN	-	SEE REMARK 999	UNP P39077
k	2032	ARG	-	SEE REMARK 999	UNP P39077
k	2033	PHE	-	SEE REMARK 999	UNP P39077
k	2034	LYS	-	SEE REMARK 999	UNP P39077
k	2035	LYS	-	SEE REMARK 999	UNP P39077
k	2036	ILE	-	SEE REMARK 999	UNP P39077
k	2037	SER	-	SEE REMARK 999	UNP P39077
k	2038	SER	-	SEE REMARK 999	UNP P39077
k	2039	SER	-	SEE REMARK 999	UNP P39077
k	2040	GLY	-	SEE REMARK 999	UNP P39077
k	2041	ALA	-	SEE REMARK 999	UNP P39077
k	2042	LEU	-	SEE REMARK 999	UNP P39077

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Chain	Residue	Modelled	Actual	Comment	Reference
k	2043	GLY	-	SEE REMARK 999	UNP P39077
k	2044	SER	-	SEE REMARK 999	UNP P39077
k	2045	GLY	-	SEE REMARK 999	UNP P39077
k	2046	HIS	-	SEE REMARK 999	UNP P39077
k	2047	HIS	-	SEE REMARK 999	UNP P39077
k	2048	HIS	-	SEE REMARK 999	UNP P39077
k	2049	HIS	-	SEE REMARK 999	UNP P39077
k	2050	HIS	-	SEE REMARK 999	UNP P39077
k	2051	HIS	-	SEE REMARK 999	UNP P39077
k	2052	HIS	-	SEE REMARK 999	UNP P39077
k	2053	HIS	-	SEE REMARK 999	UNP P39077
k	2054	GLY	-	SEE REMARK 999	UNP P39077
k	2055	SER	-	SEE REMARK 999	UNP P39077
k	2056	GLY	-	SEE REMARK 999	UNP P39077

- Molecule 4 is a protein called T-complex protein 1 subunit delta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			
4	L	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			
4	d	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			
4	l	522	Total	C	N	O	S	0	0	0
			3398	2092	609	686	11			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	345	ASP	GLY	engineered mutation	UNP P39078
L	345	ASP	GLY	engineered mutation	UNP P39078
d	1345	ASP	GLY	engineered mutation	UNP P39078
l	1345	ASP	GLY	engineered mutation	UNP P39078

- Molecule 5 is a protein called T-complex protein 1 subunit epsilon.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			
5	M	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	e	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			
5	m	525	Total	C	N	O	S	0	0	0
			3437	2110	599	720	8			

- Molecule 6 is a protein called T-complex protein 1 subunit zeta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	533	Total	C	N	O	S	0	0	0
			3631	2253	629	740	9			
6	N	533	Total	C	N	O	S	0	0	0
			3628	2250	629	740	9			
6	f	533	Total	C	N	O	S	0	0	0
			3633	2255	630	739	9			
6	n	533	Total	C	N	O	S	0	0	0
			3629	2252	629	739	9			

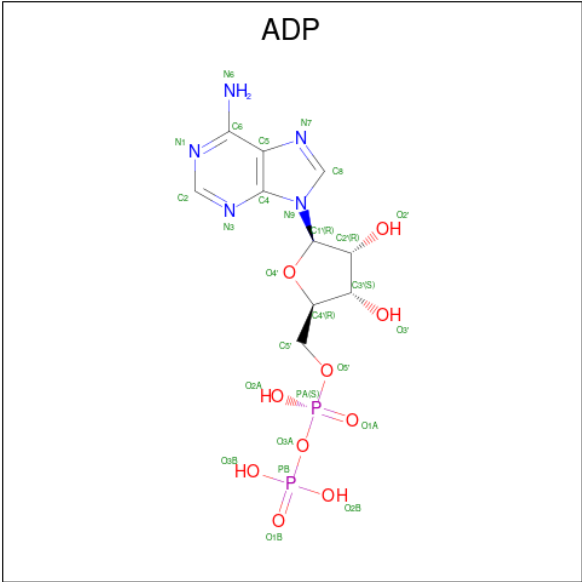
- Molecule 7 is a protein called T-complex protein 1 subunit eta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	509	Total	C	N	O	S	0	0	0
			3317	2055	583	669	10			
7	O	509	Total	C	N	O	S	0	0	0
			3314	2052	583	669	10			
7	g	509	Total	C	N	O	S	0	0	0
			3314	2052	583	669	10			
7	o	509	Total	C	N	O	S	0	0	0
			3314	2052	583	669	10			

- Molecule 8 is a protein called T-complex protein 1 subunit theta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	525	Total	C	N	O	S	0	0	0
			3487	2161	608	705	13			
8	P	525	Total	C	N	O	S	0	0	0
			3487	2161	608	705	13			
8	h	525	Total	C	N	O	S	0	0	0
			3485	2159	608	705	13			
8	p	525	Total	C	N	O	S	0	0	0
			3487	2161	608	705	13			

- Molecule 9 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



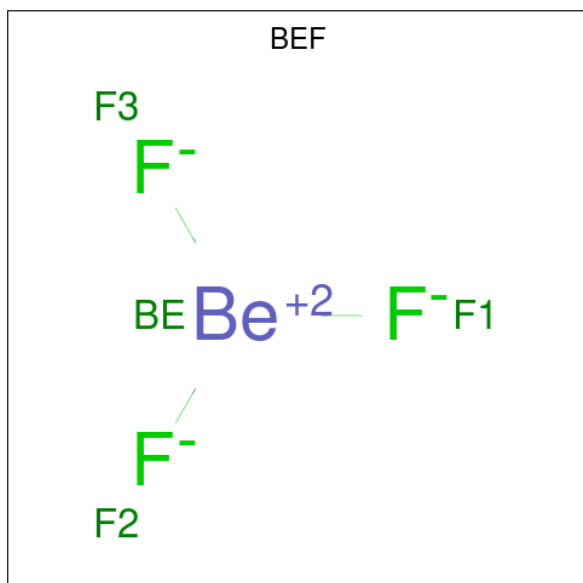
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	A	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	B	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	C	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	D	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	E	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	F	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	G	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	H	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	J	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	L	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	M	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	N	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	P	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	a	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
9	b	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	e	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	f	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	g	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	h	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	k	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	l	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	m	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	n	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
9	p	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

- Molecule 10 is BERYLLIUM TRIFLUORIDE ION (CCD ID: BEF) (formula: BeF₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	A	1	Total	Be	F	0	0
			4	1	3		

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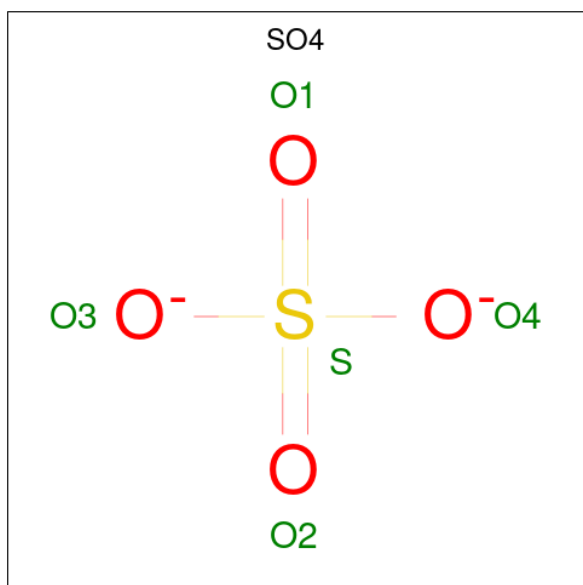
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	B	1	Total 4	Be 1	F 3	0	0
10	C	1	Total 4	Be 1	F 3	0	0
10	D	1	Total 4	Be 1	F 3	0	0
10	E	1	Total 4	Be 1	F 3	0	0
10	F	1	Total 4	Be 1	F 3	0	0
10	G	1	Total 4	Be 1	F 3	0	0
10	H	1	Total 4	Be 1	F 3	0	0
10	J	1	Total 4	Be 1	F 3	0	0
10	L	1	Total 4	Be 1	F 3	0	0
10	M	1	Total 4	Be 1	F 3	0	0
10	N	1	Total 4	Be 1	F 3	0	0
10	P	1	Total 4	Be 1	F 3	0	0
10	a	1	Total 4	Be 1	F 3	0	0
10	b	1	Total 4	Be 1	F 3	0	0
10	e	1	Total 4	Be 1	F 3	0	0
10	f	1	Total 4	Be 1	F 3	0	0
10	g	1	Total 4	Be 1	F 3	0	0
10	h	1	Total 4	Be 1	F 3	0	0
10	k	1	Total 4	Be 1	F 3	0	0
10	l	1	Total 4	Be 1	F 3	0	0
10	m	1	Total 4	Be 1	F 3	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
10	n	1	Total	Be	F	0	0
			4	1	3		
10	p	1	Total	Be	F	0	0
			4	1	3		

- Molecule 11 is SULFATE ION (CCD ID: SO4) (formula: O₄S).

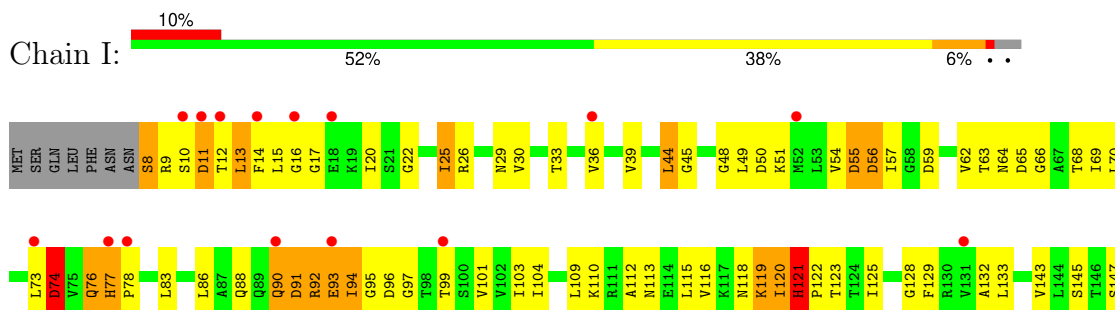


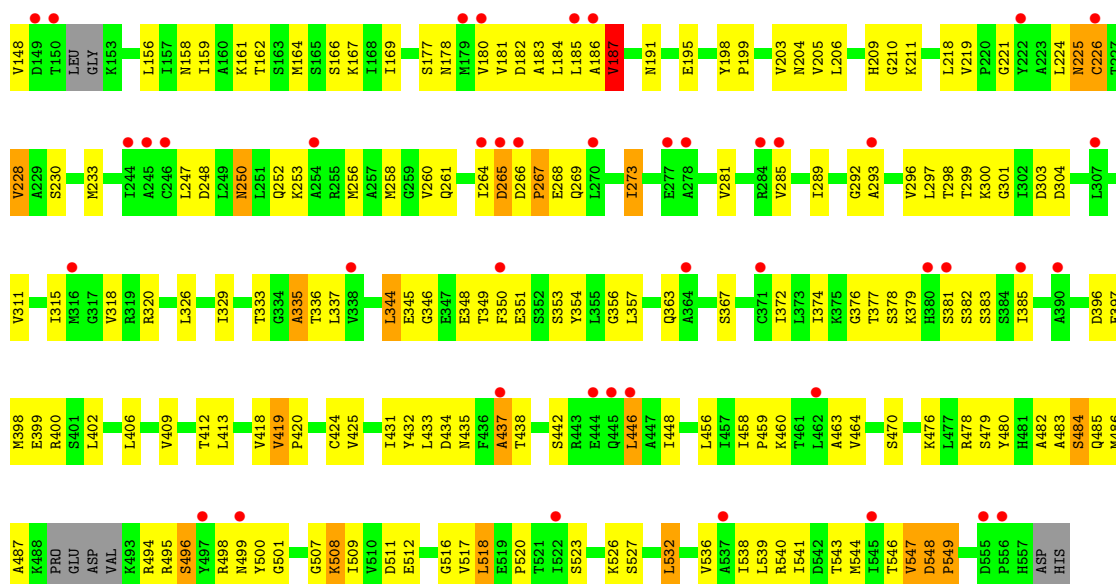
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
11	I	1	Total	O	S	0	0
			5	4	1		
11	K	1	Total	O	S	0	0
			5	4	1		
11	O	1	Total	O	S	0	0
			5	4	1		
11	c	1	Total	O	S	0	0
			5	4	1		
11	d	1	Total	O	S	0	0
			5	4	1		
11	i	1	Total	O	S	0	0
			5	4	1		
11	j	1	Total	O	S	0	0
			5	4	1		
11	o	1	Total	O	S	0	0
			5	4	1		

- Molecule 12 is water.

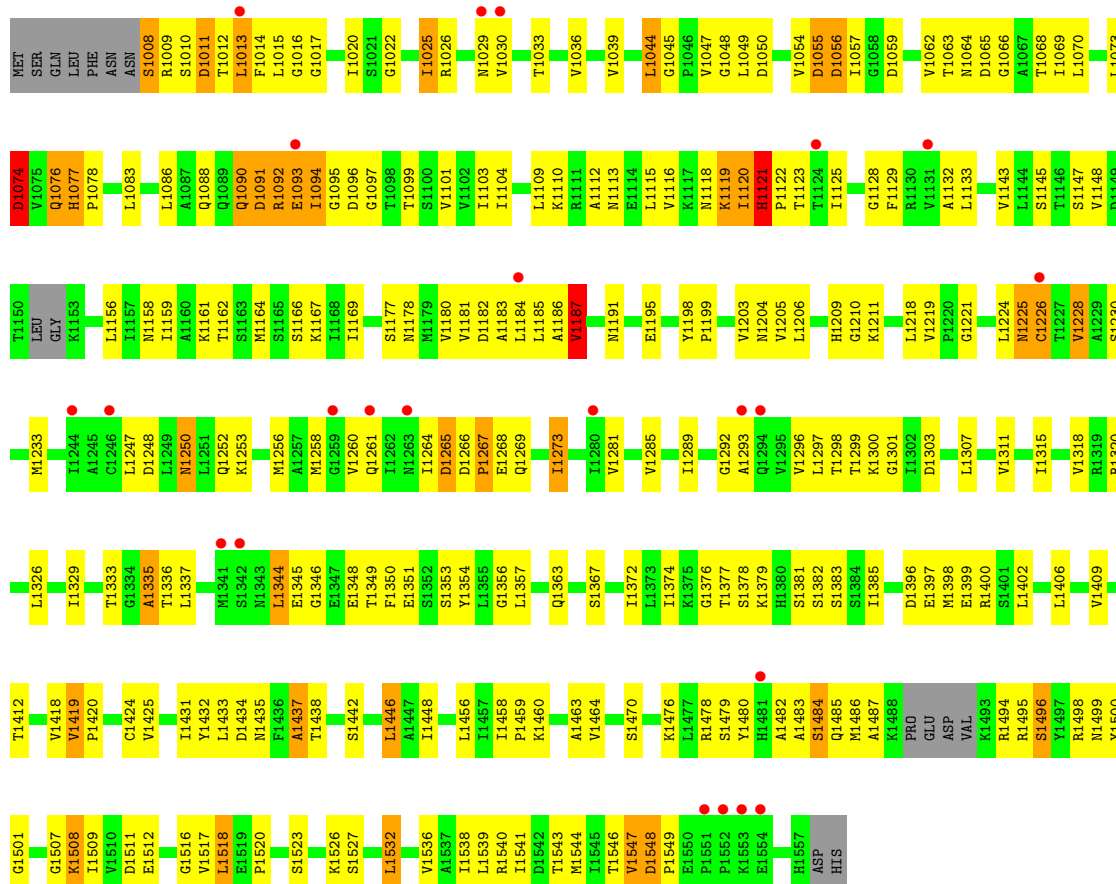
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
12	B	1	Total	O	0	0
			1	1		
12	E	1	Total	O	0	0
			1	1		
12	G	1	Total	O	0	0
			1	1		
12	M	1	Total	O	0	0
			1	1		
12	e	1	Total	O	0	0
			1	1		
12	g	1	Total	O	0	0
			1	1		
12	m	1	Total	O	0	0
			1	1		

- Molecule 1: T-complex protein 1 subunit alpha

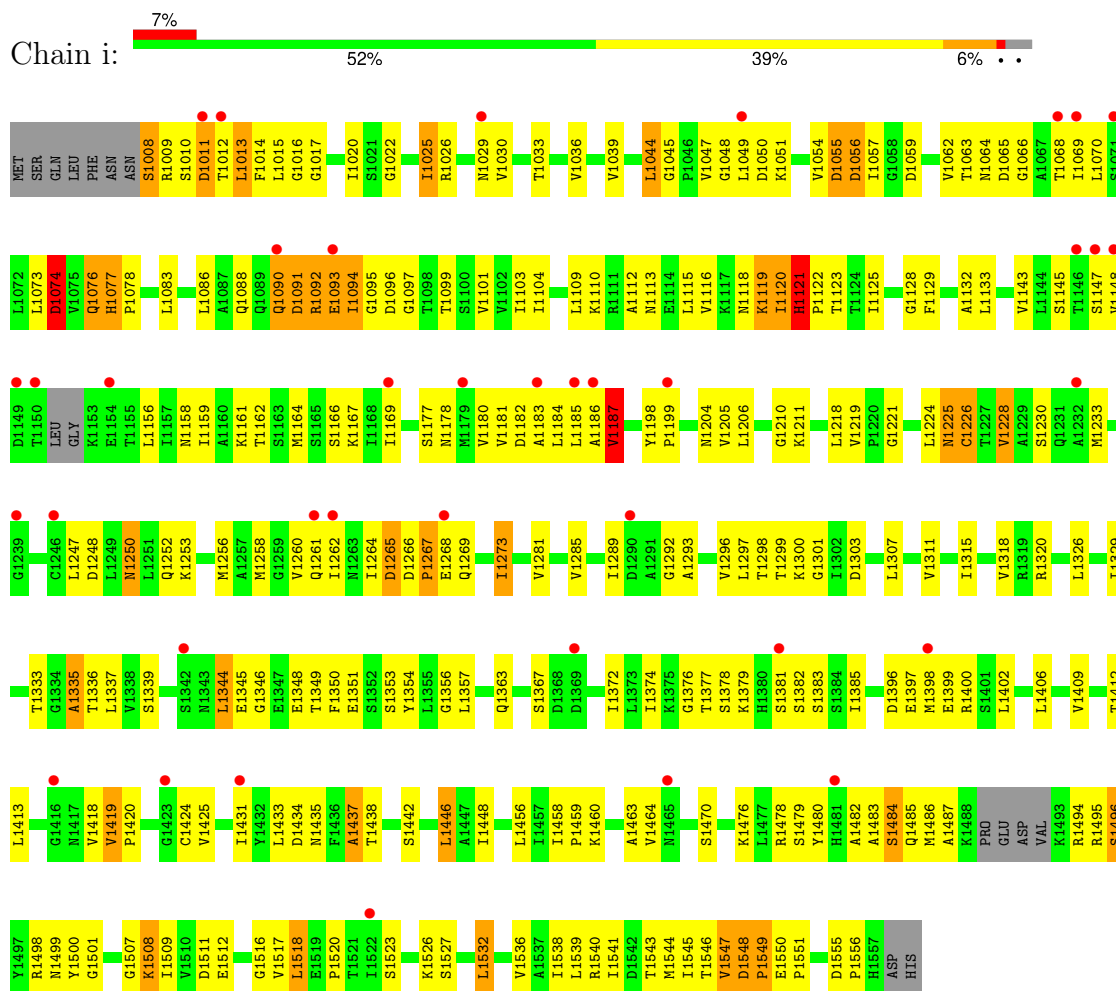




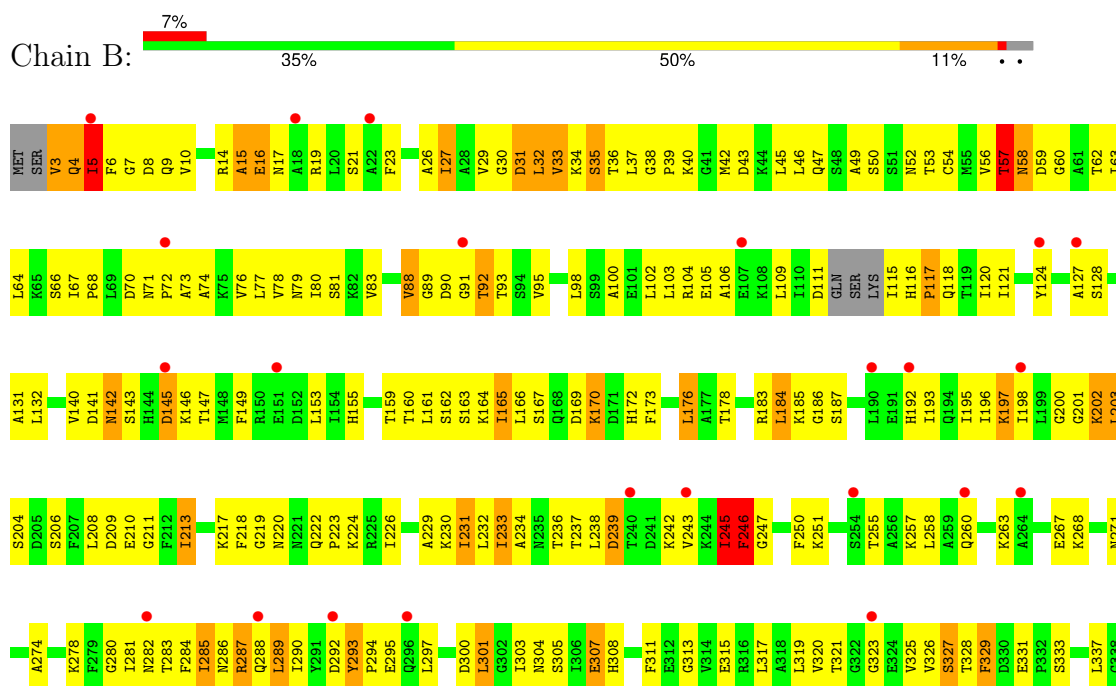
• Molecule 1: T-complex protein 1 subunit alpha

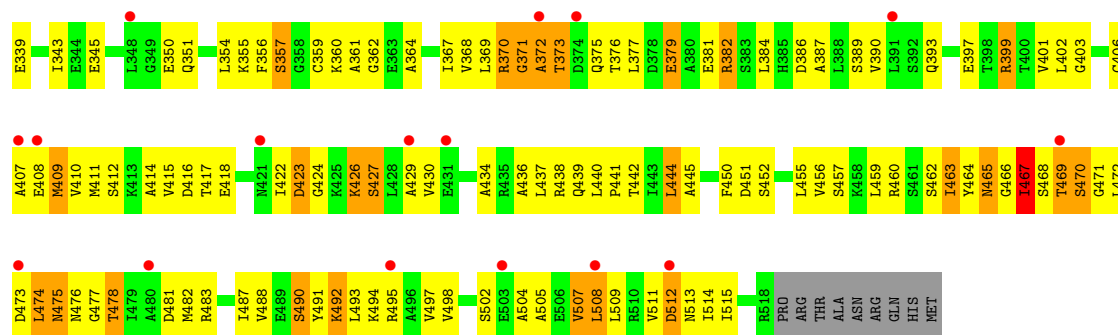


• Molecule 1: T-complex protein 1 subunit alpha

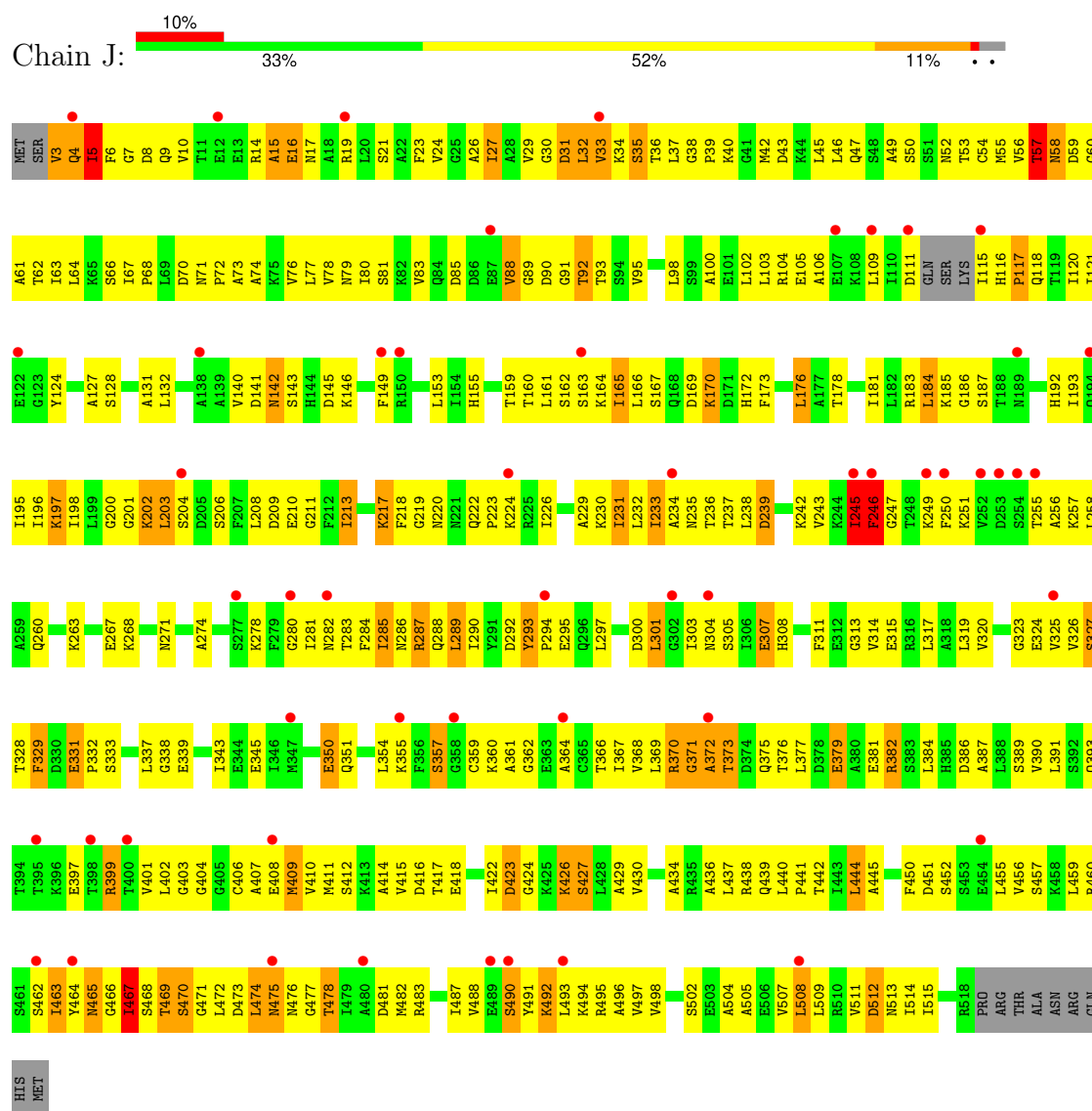


• Molecule 2: T-complex protein 1 subunit beta



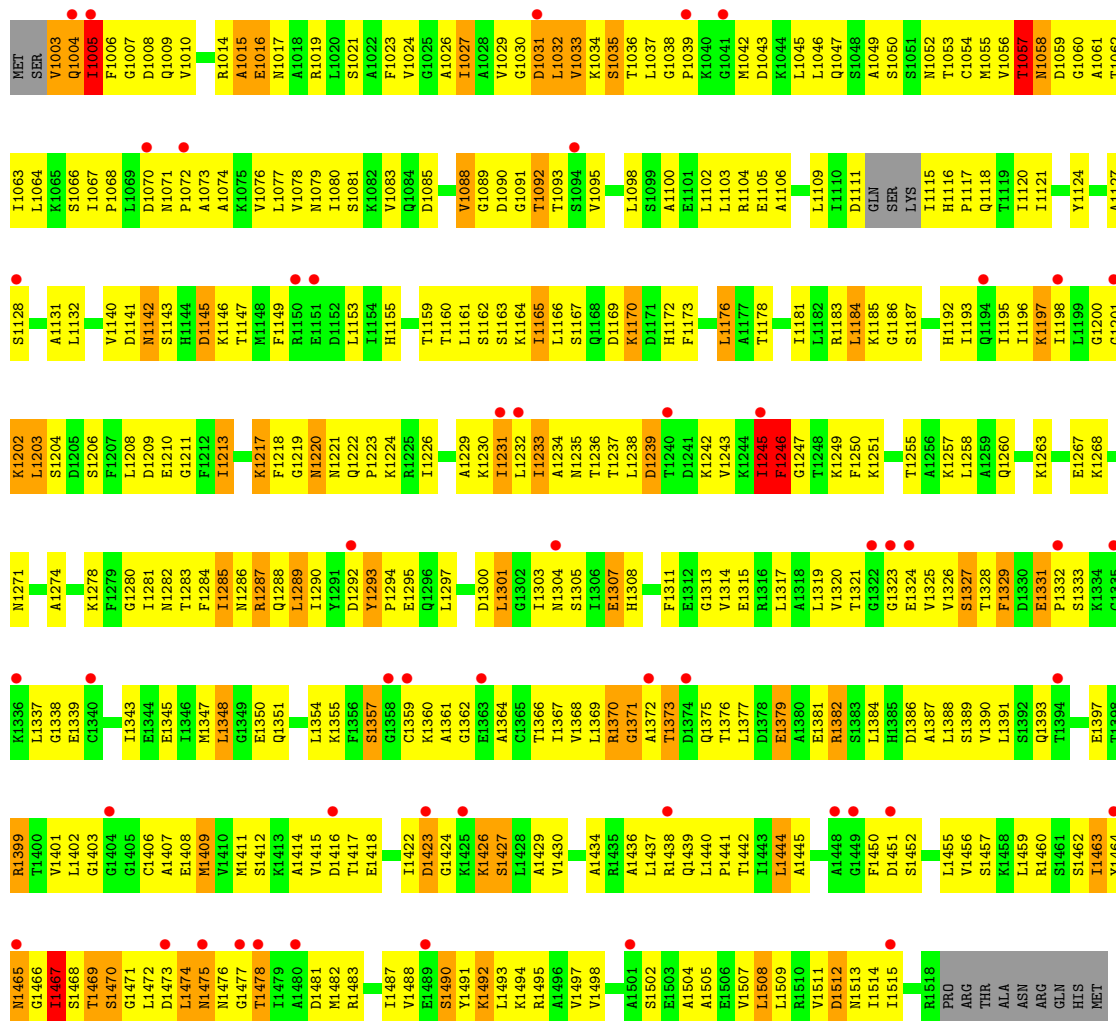


• Molecule 2: T-complex protein 1 subunit beta

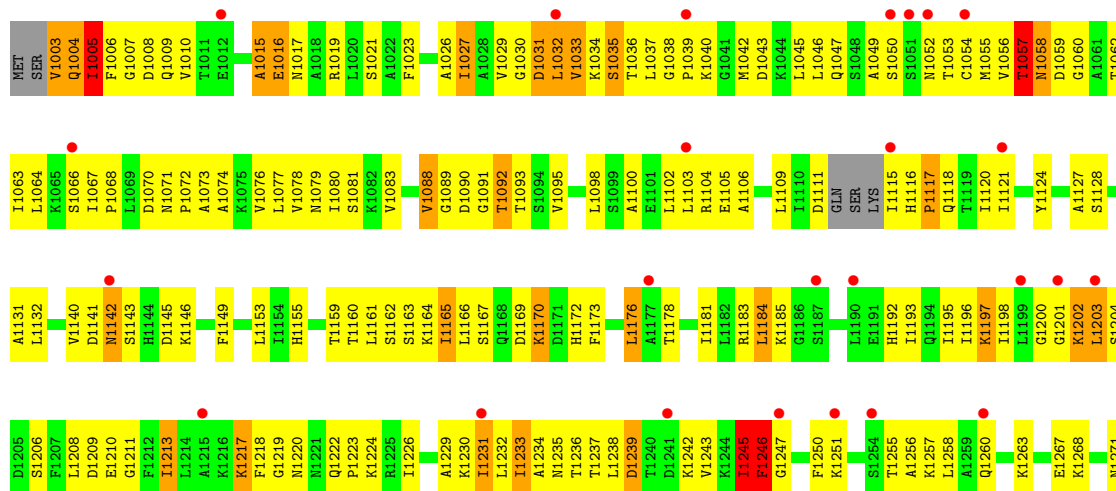


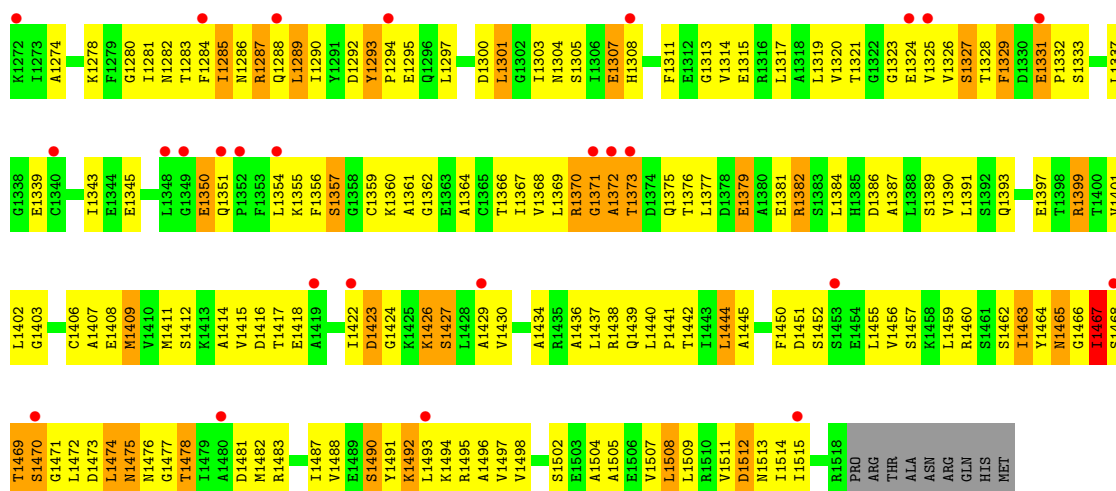
• Molecule 2: T-complex protein 1 subunit beta



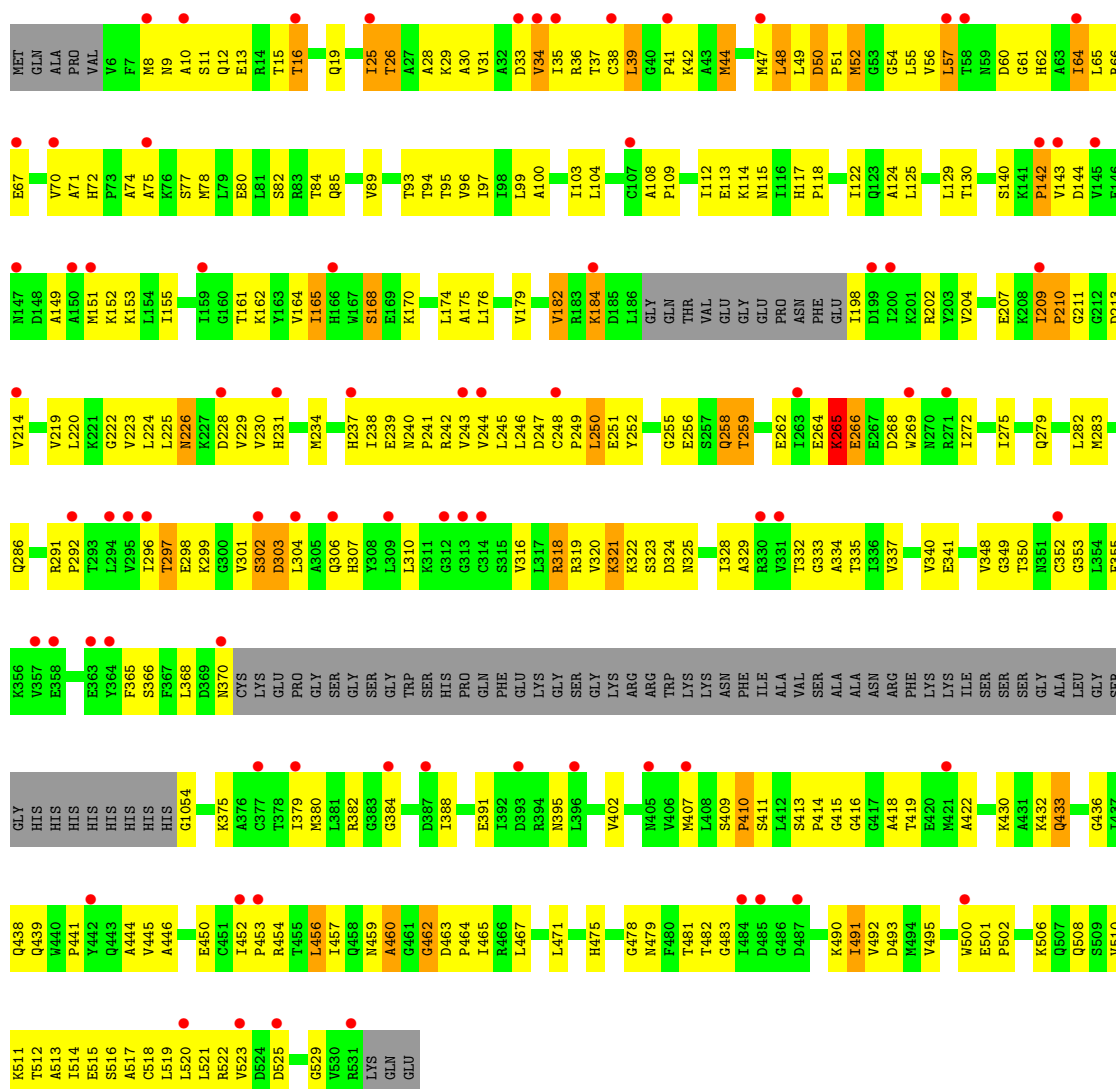


• Molecule 2: T-complex protein 1 subunit beta



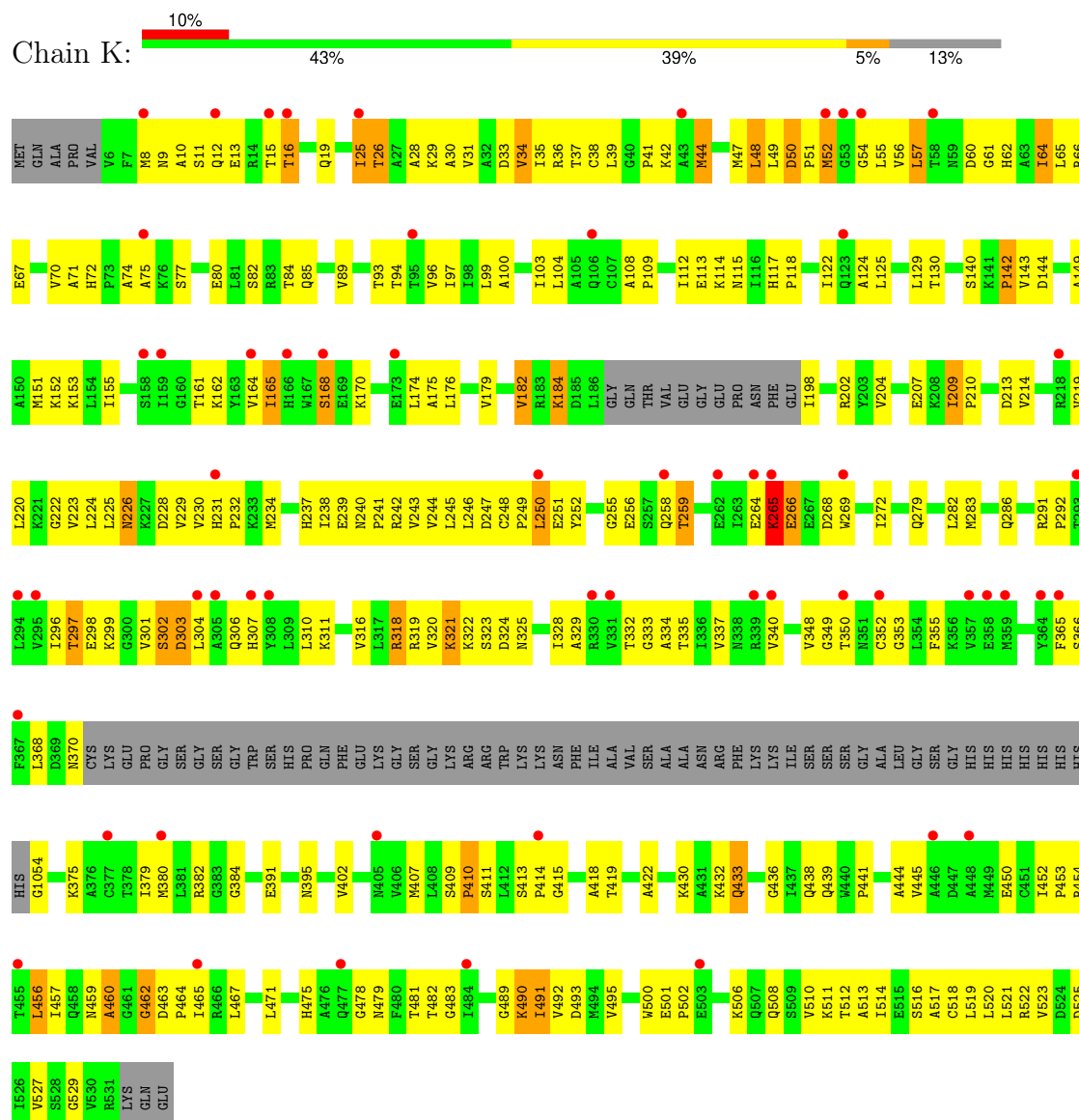


● Molecule 3: T-complex protein 1 subunit gamma



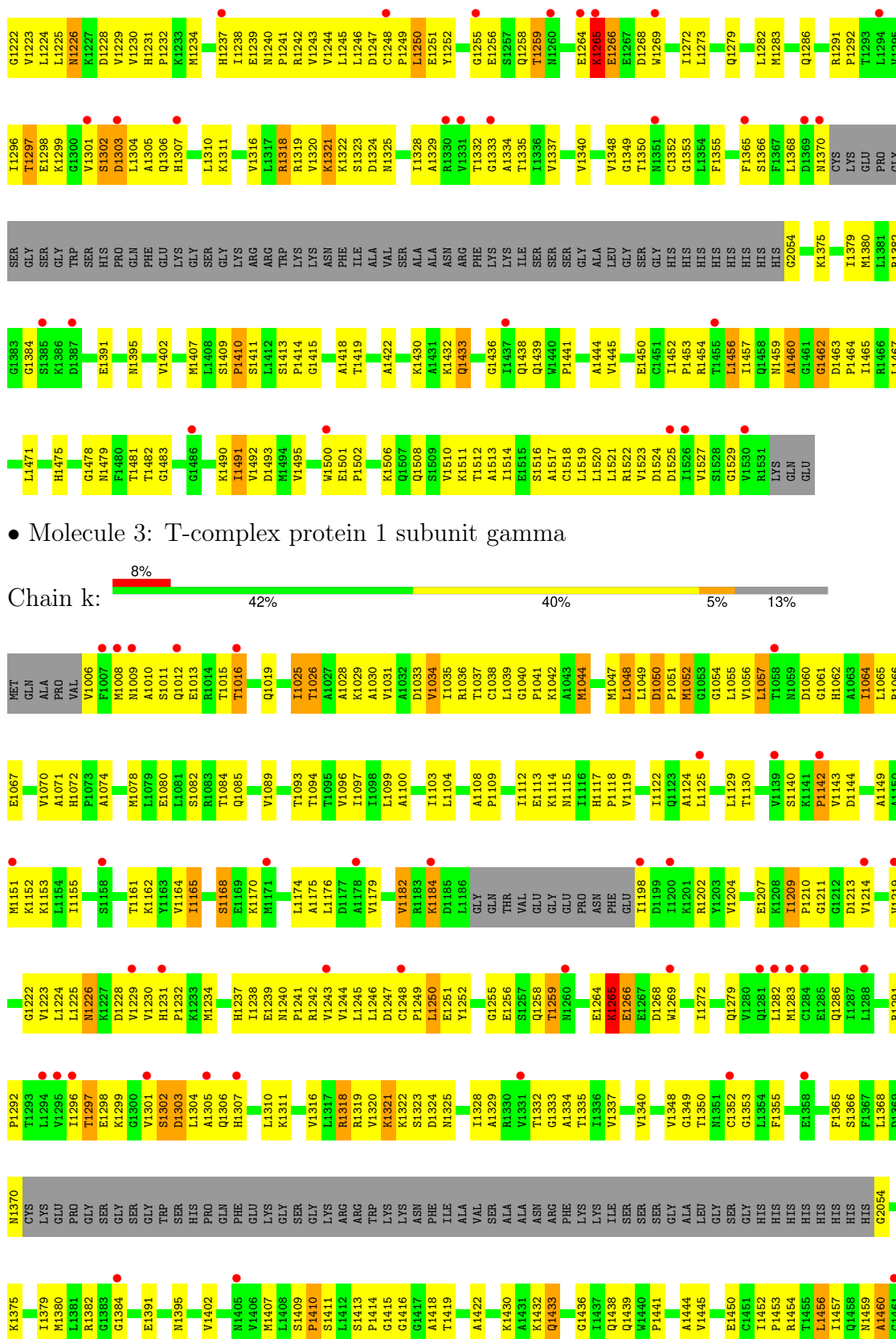
• Molecule 3: T-complex protein 1 subunit gamma

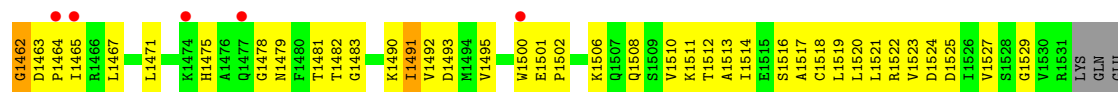
Chain K:



• Molecule 3: T-complex protein 1 subunit gamma



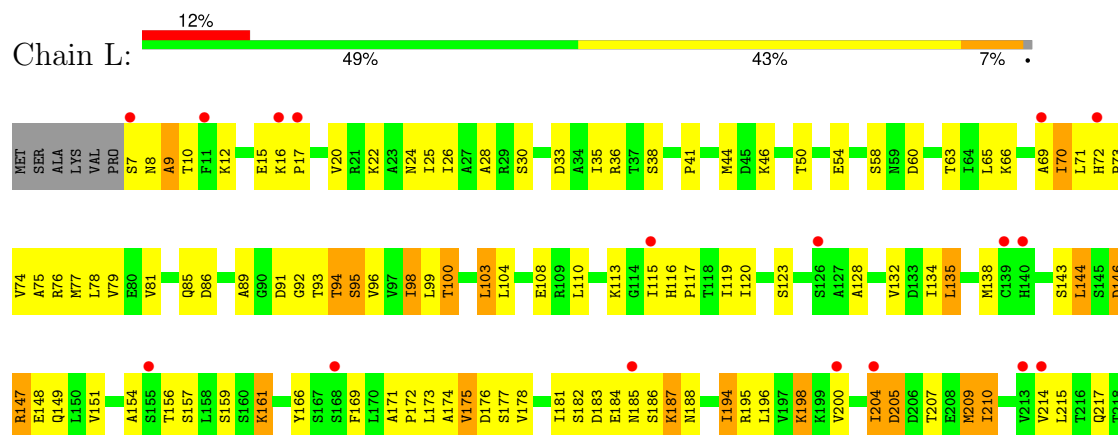


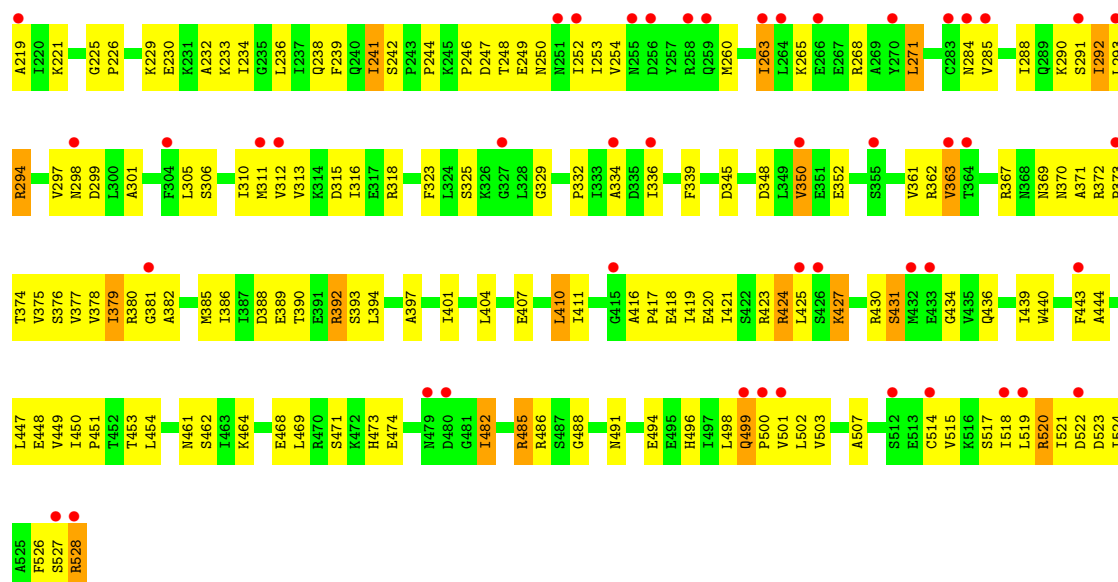


• Molecule 4: T-complex protein 1 subunit delta

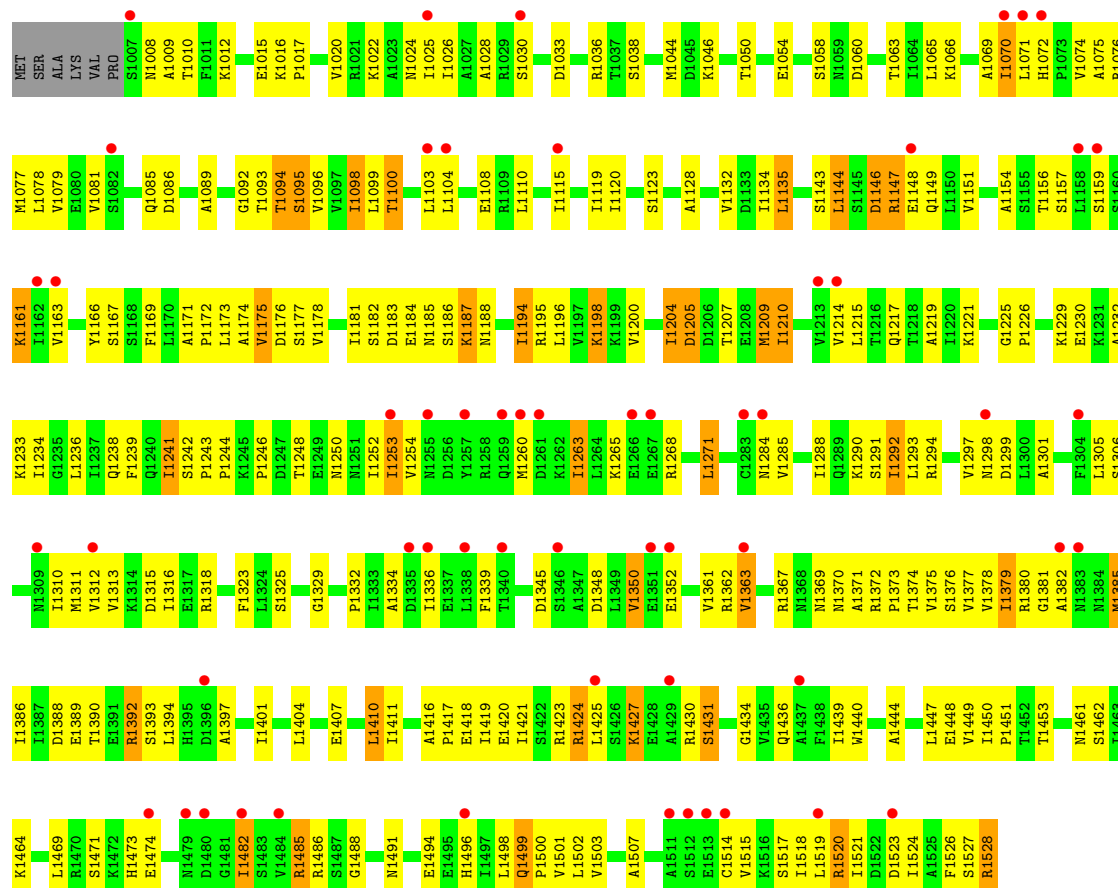


• Molecule 4: T-complex protein 1 subunit delta

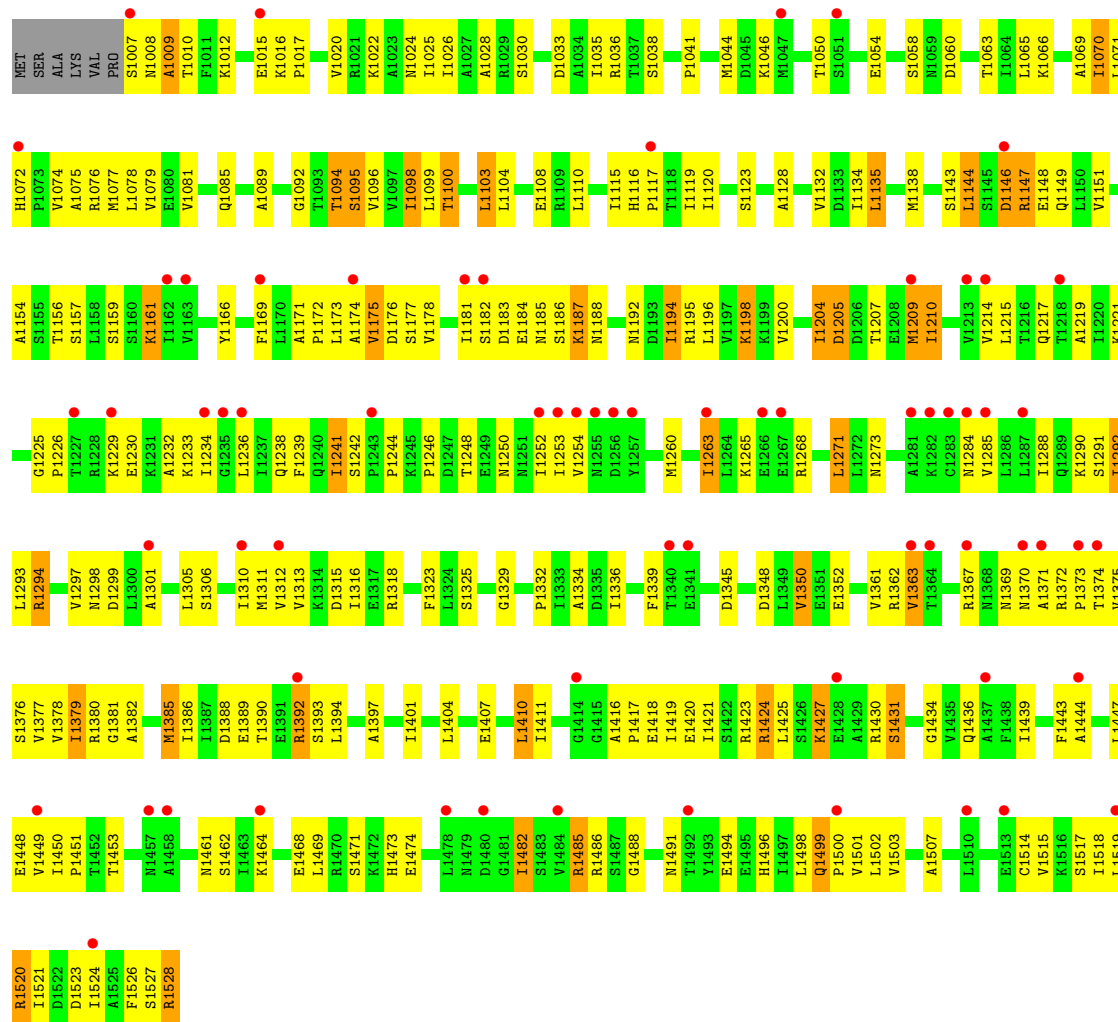




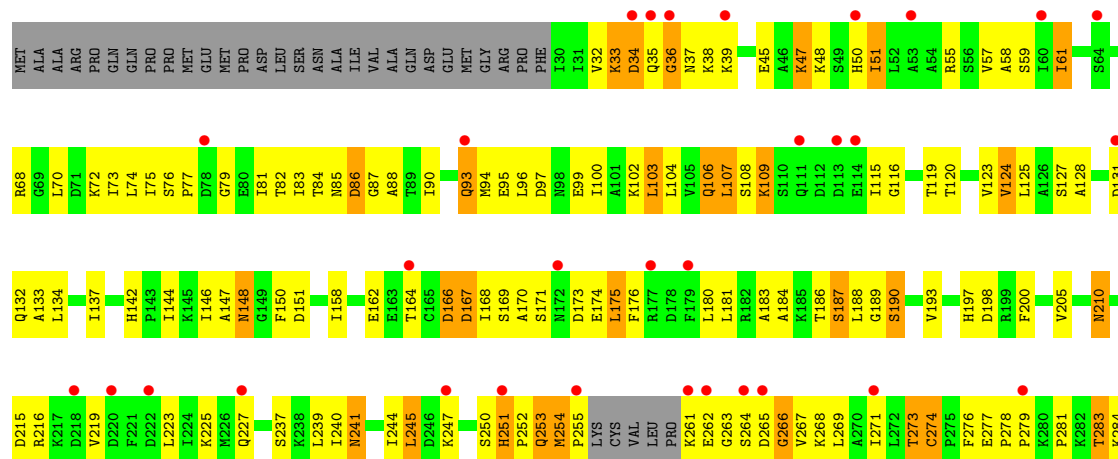
• Molecule 4: T-complex protein 1 subunit delta

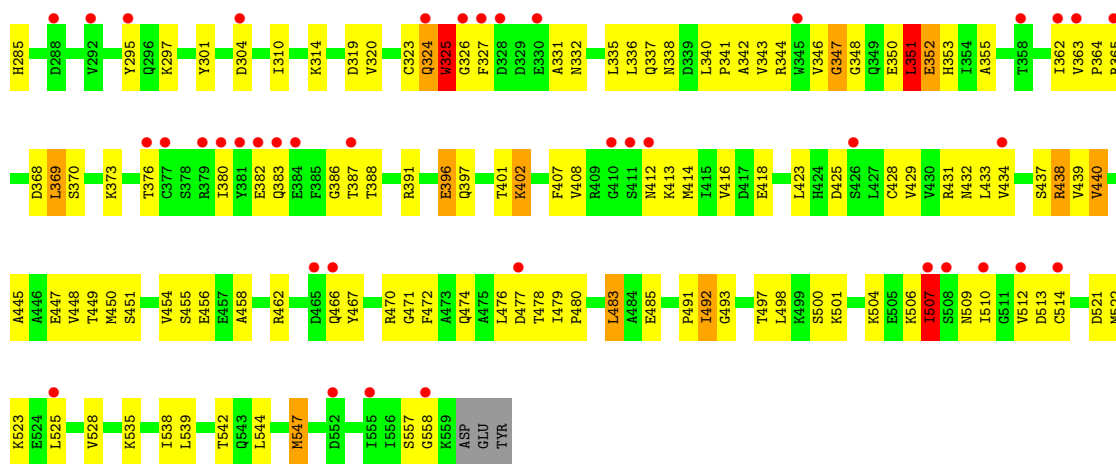


• Molecule 4: T-complex protein 1 subunit delta

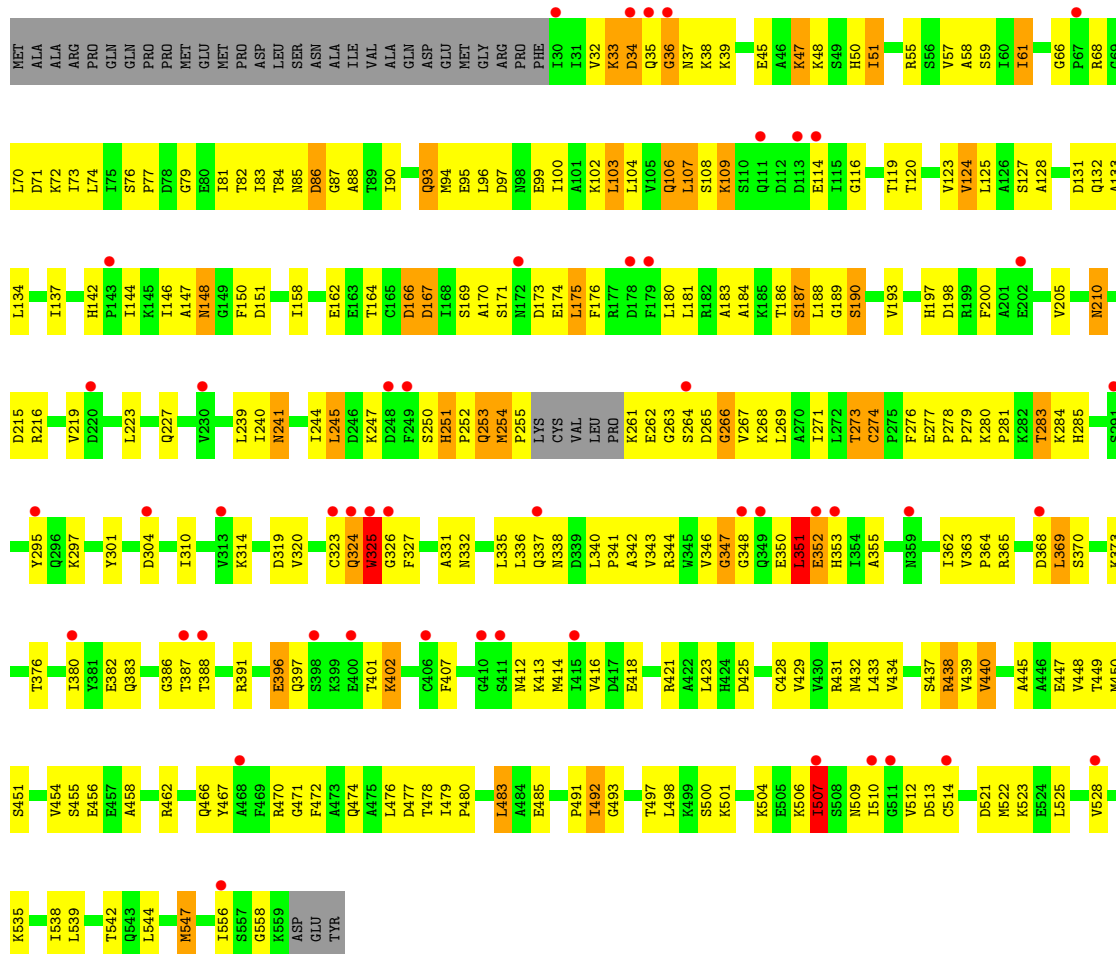


• Molecule 5: T-complex protein 1 subunit epsilon



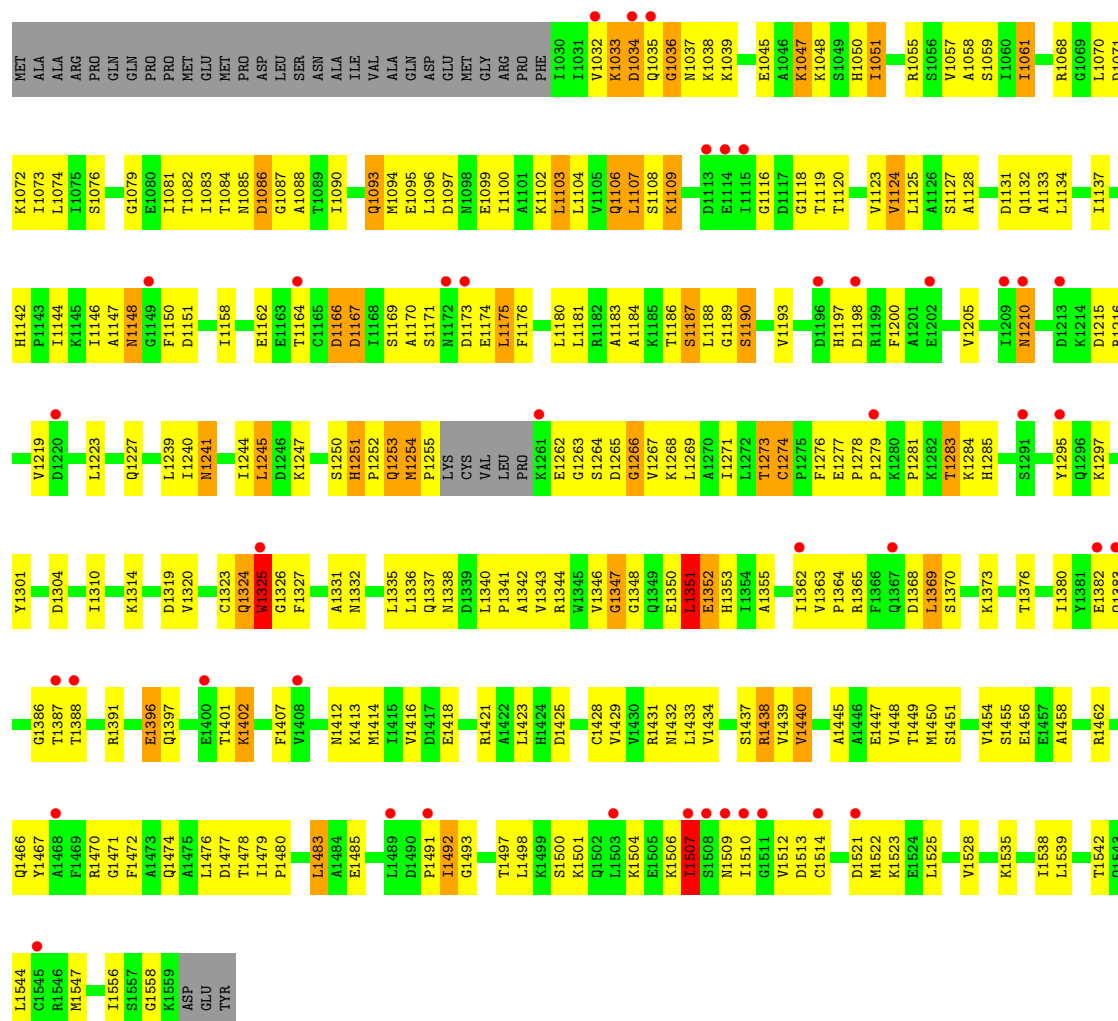


• Molecule 5: T-complex protein 1 subunit epsilon

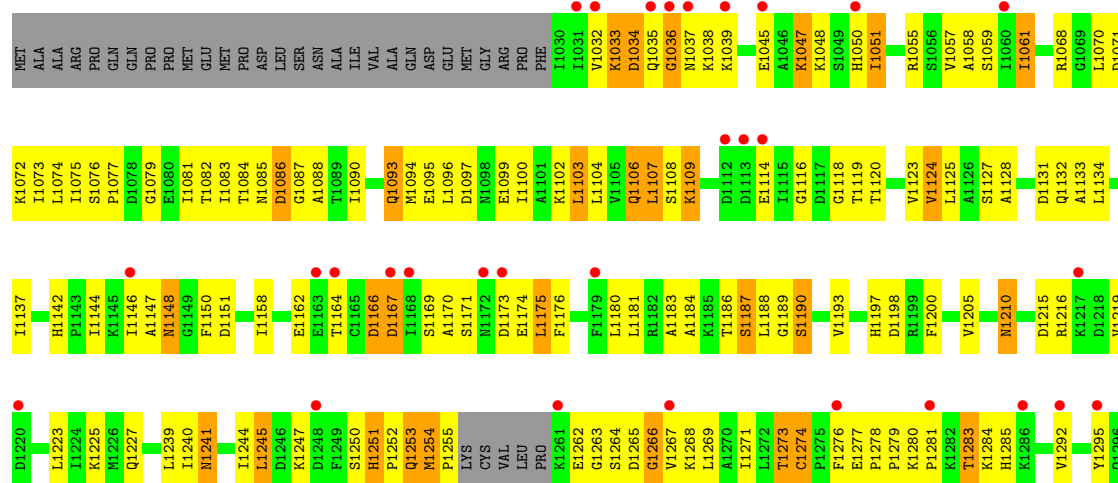


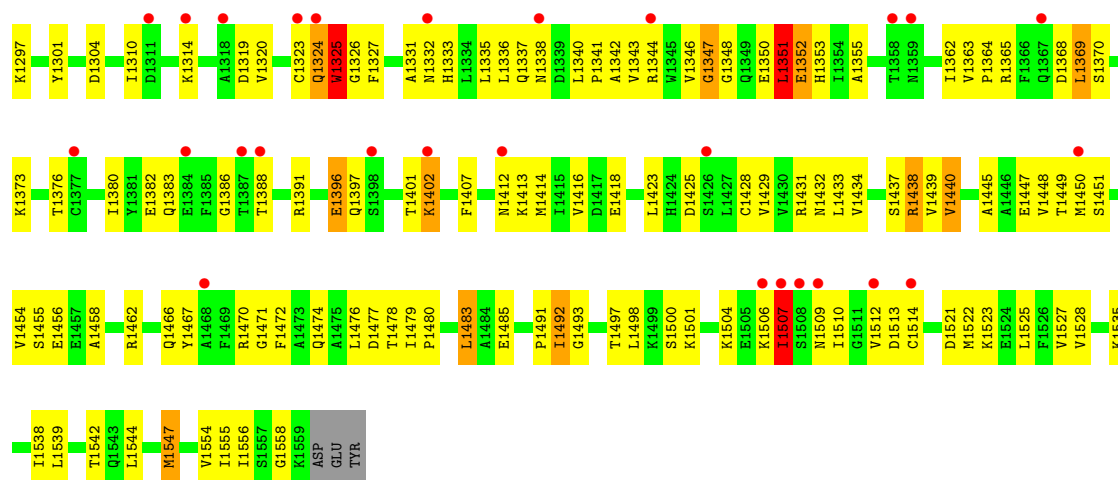
• Molecule 5: T-complex protein 1 subunit epsilon



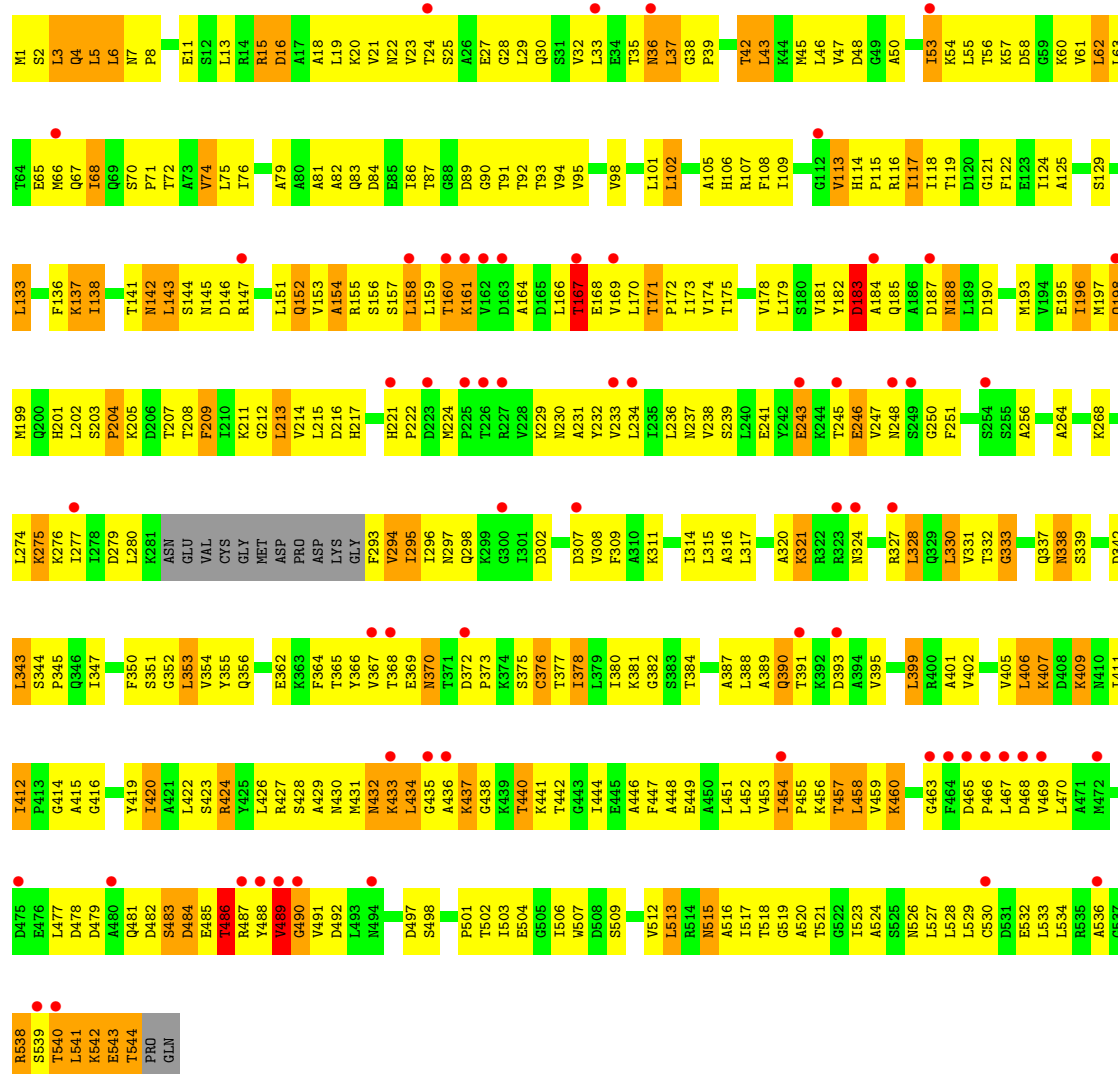


• Molecule 5: T-complex protein 1 subunit epsilon





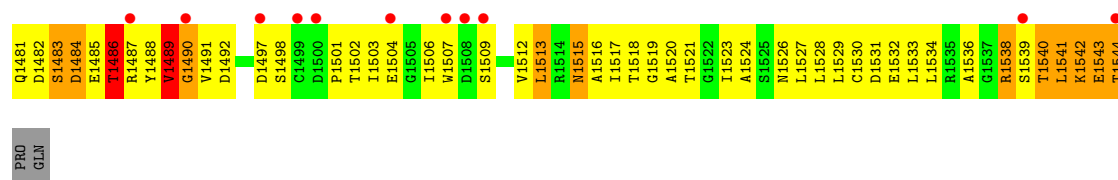
• Molecule 6: T-complex protein 1 subunit zeta



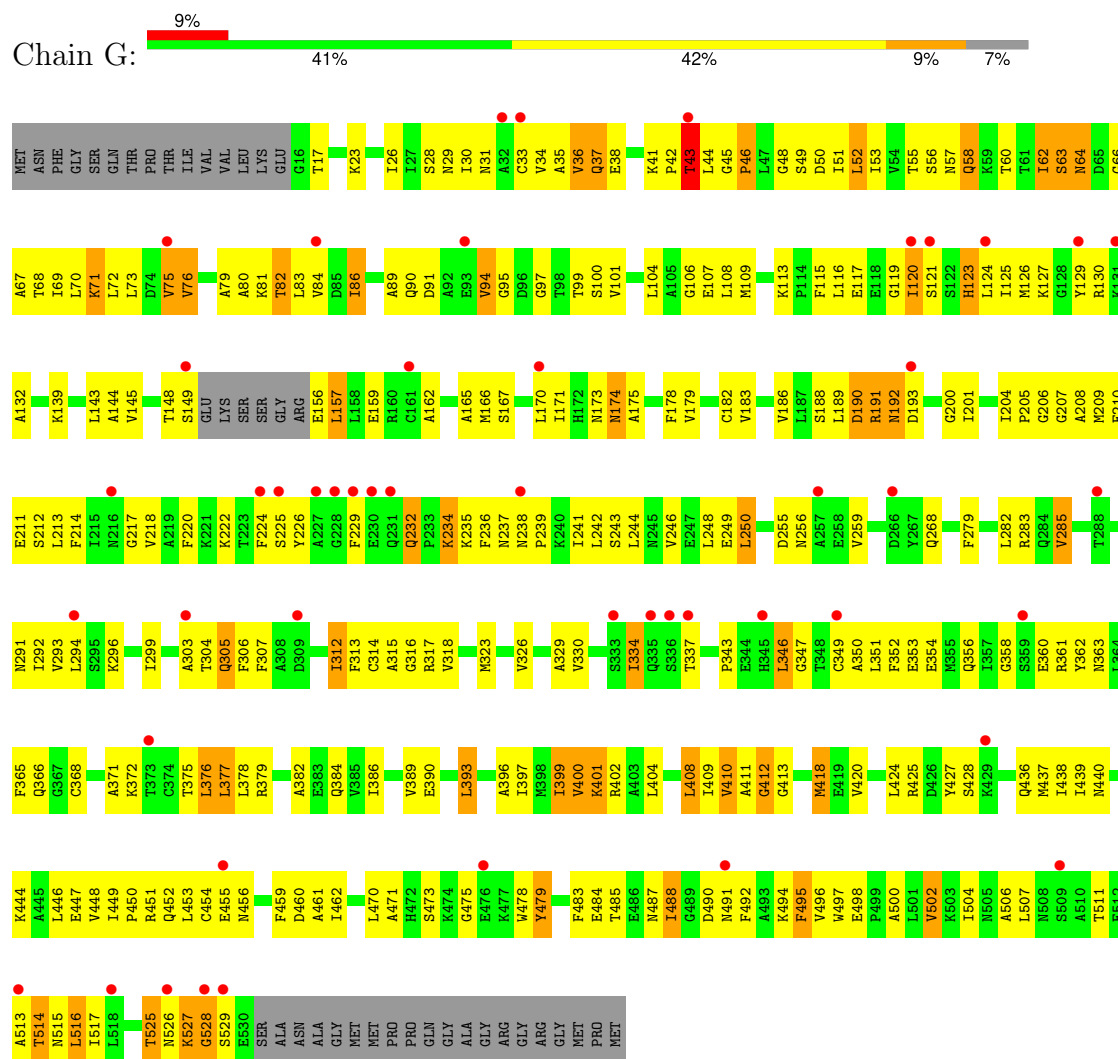
Chain N: 10% 33% 50% 14% ..

The figure displays a protein chain (Chain N) with various residues highlighted in different colors. The residues are arranged in a grid-like pattern, with some residues having multiple labels. The colors correspond to different categories or states, as indicated by the legend at the top. The grid is organized into rows and columns, with some rows containing more residues than others. The residues are labeled with three-letter codes (e.g., M1, S2, L3, Q4, L5, L6, N7, P8, E11, S12, L13, R14, R15, D16, A17, A18, L19, K20, V21, N22, V23, T24, E27, G28, L29, Q30, S31, V32, L33, E34, T35, N36, L37, G38, P39, T42, M45, L46, V47, D48, G49, A50, I53, K54, L55, T56, K57, D58, G59, K60, V61, L62, K63, L64, T65, K66, K137, I138, T141, T143, S144, N145, D146, R147, L150, L151, Q152, A154, R155, S156, L158, T159, T160, K161, V162, D163, A164, T165, L166, T167, E168, V169, T170, T171, T172, I173, V174, T175, V178, L179, S180, V181, T182, D183, A184, Q185, T186, D187, T188, L189, D190, M193, V194, E195, L196, M197, Q198, L199, D200, H201, L202, S203, P204, K205, D206, T207, T208, F209, T210, K211, G212, L213, V214, L215, D216, H217, H221, D223, L224, P225, K229, N230, A231, V232, V233, L234, T235, L236, N237, V238, S239, L240, E241, Y242, E243, K244, T245, E246, V247, N248, S249, G250, F251, F252, S255, A254, K258, L274, K275, K276, L277, T278, D279, L280, K281, A282, G283, V284, V285, C286, G287, T288, M289, P290, R291, L292, L293, V294, W295, T296, K297, Q298, D302, D307, V308, F309, A310, K311, T314, L315, A316, L317, A320, K321, N324, K327, L328, D329, Q330, V331, G332, T333, K334, Q337, N338, S339, V340, F341, D342, L343, S344, P345, I346, T347, F350, S351, G352, K353, V354, Y355, Q356, E361, E362, K363, F364, T365, V366, F367, T368, E369, N370, T371, D372, G373, K374, S375, C376, T377, I378, L379, K380, K381, L382, S383, T384, H385, Y386, A387, L388, A389, Q390, T391, K392, D393, A394, V395, G398, L399, G333, K400, A401, A402, V405, L406, K407, D408, K409, L410, D468, V469, L470, E474, L477, C444, F445, G446, A447, F447, A448, Y449, A450, L451, L452, V453, P454, P455, K456, L457, L458, V459, K460, L461, S462, C530, D531, E532, L533, A536, G537, E538, S539, T540, L541, K542, E543, T544.

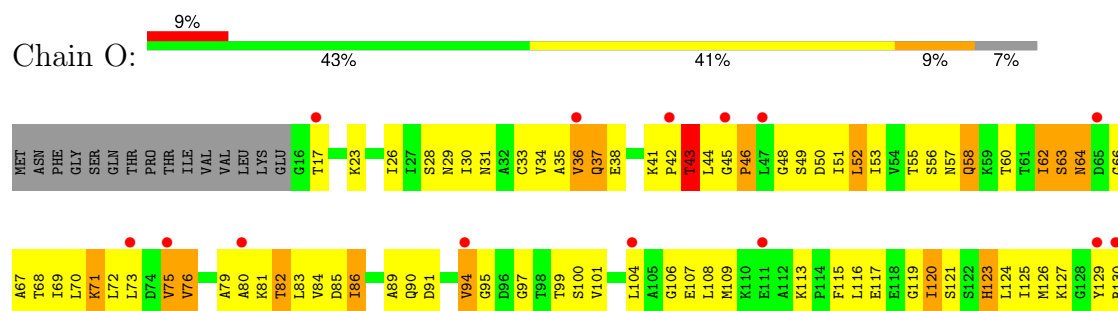
Chain f:

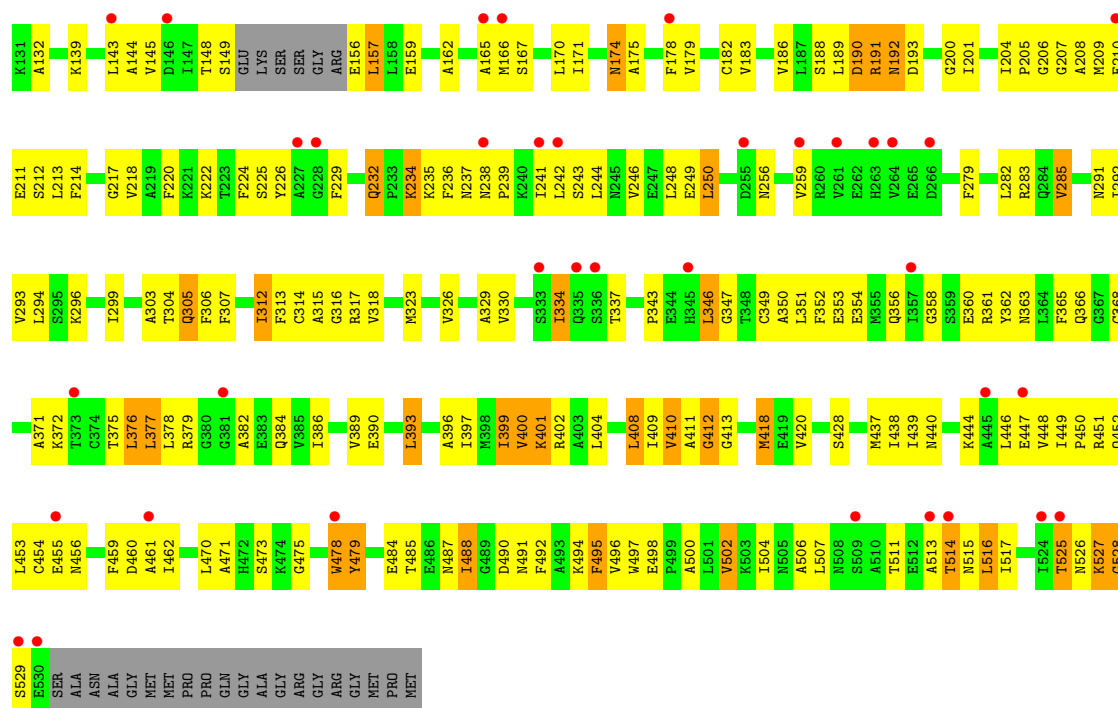


• Molecule 7: T-complex protein 1 subunit eta

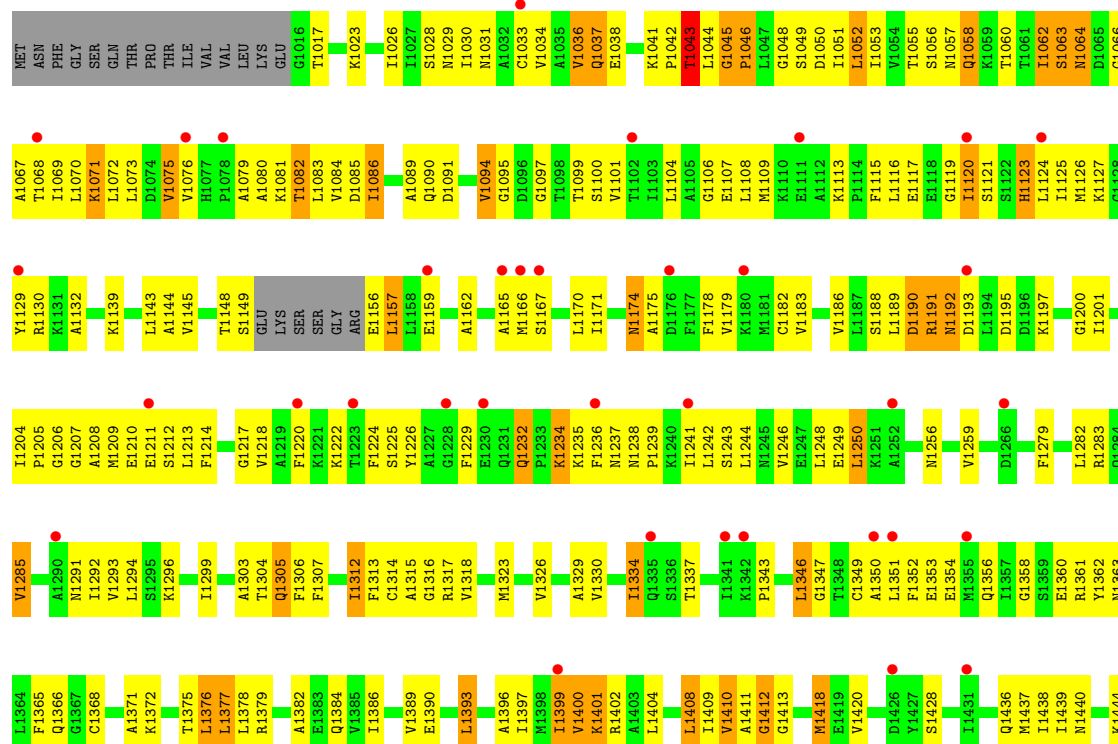
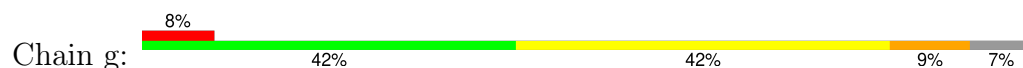


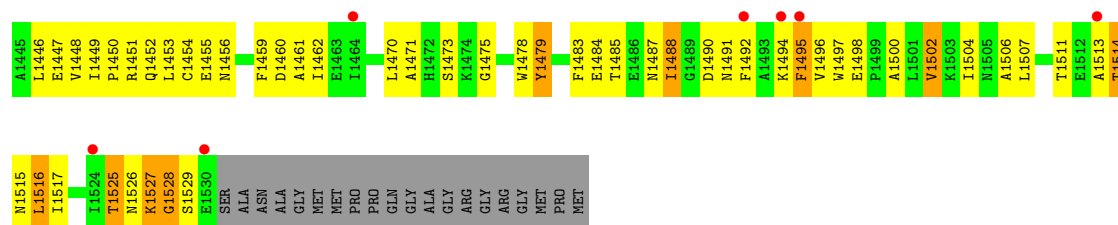
• Molecule 7: T-complex protein 1 subunit eta



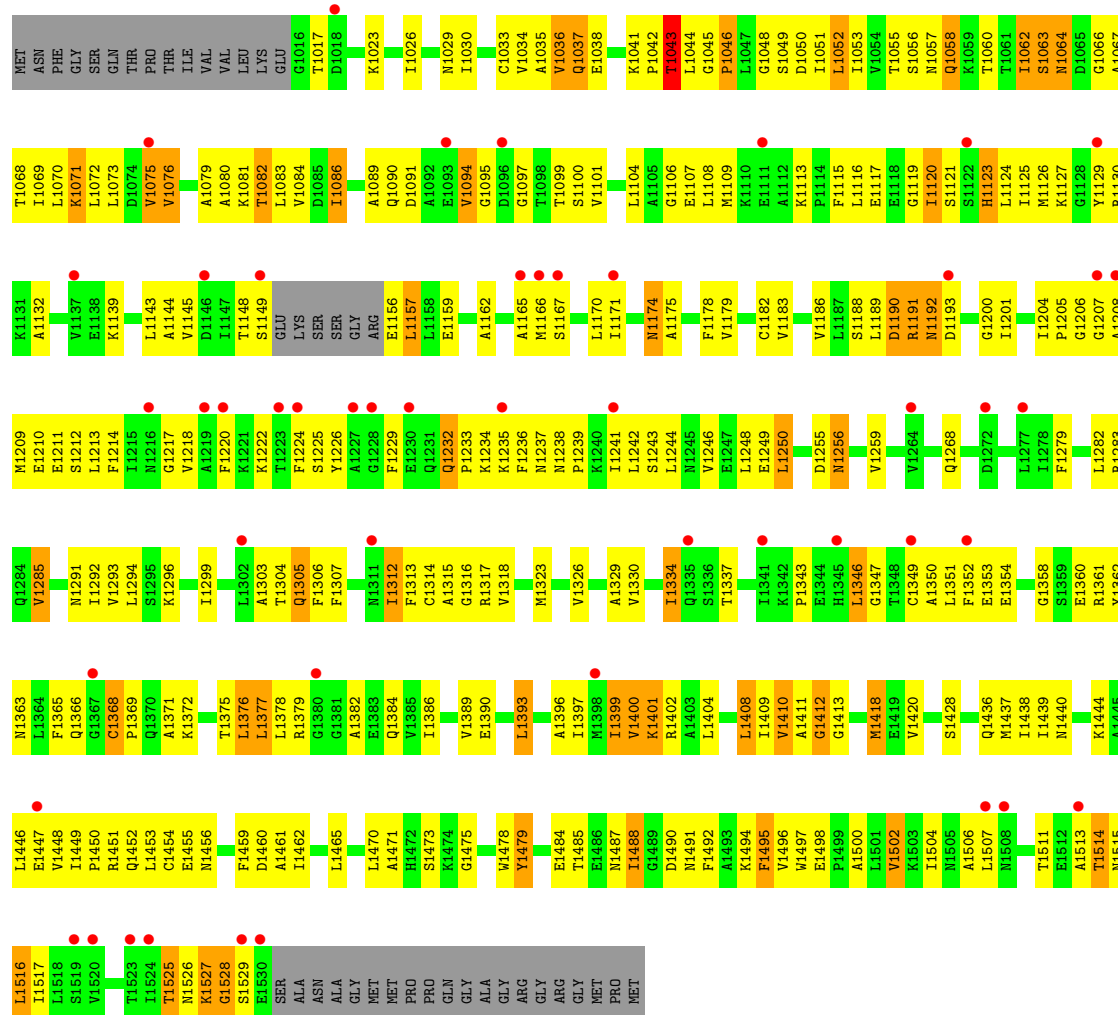
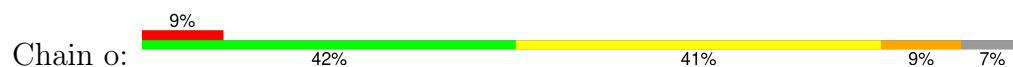


• Molecule 7: T-complex protein 1 subunit eta

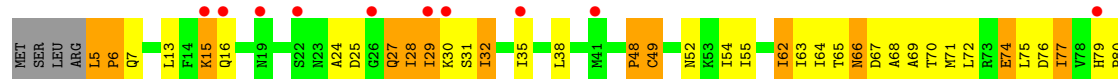
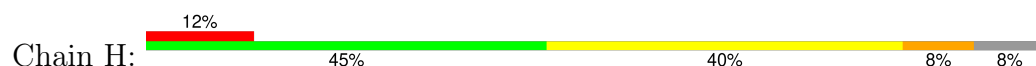


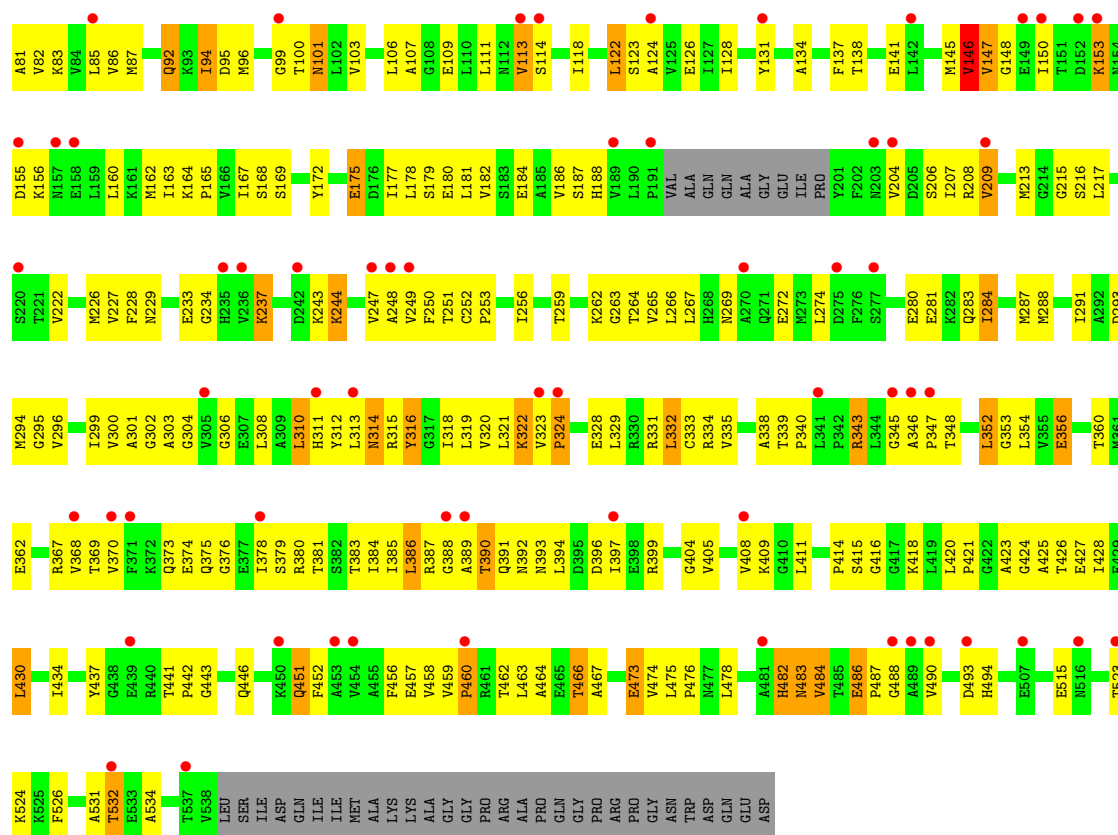


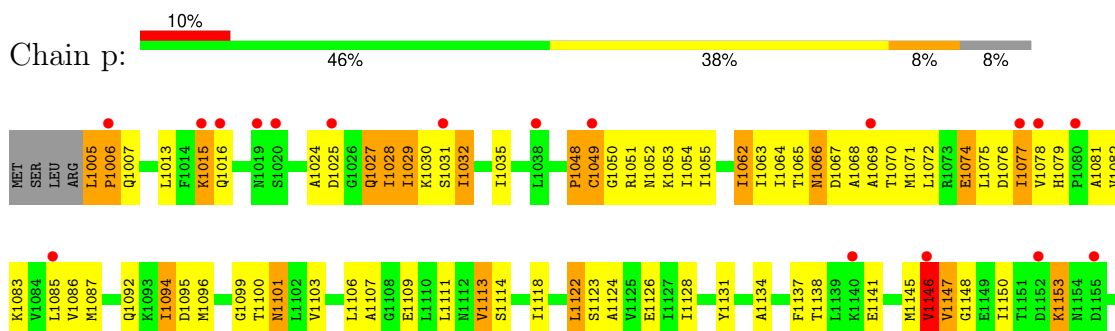
• Molecule 7: T-complex protein 1 subunit eta



• Molecule 8: T-complex protein 1 subunit theta









4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	159.10Å 162.54Å 268.10Å 85.23° 81.15° 61.17°	Depositor
Resolution (Å)	89.95 – 3.80 89.95 – 3.80	Depositor EDS
% Data completeness (in resolution range)	91.6 (89.95-3.80) 91.5 (89.95-3.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.18 (at 3.78Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.307 , 0.344 0.312 , 0.343	Depositor DCC
R_{free} test set	10483 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	112.3	Xtriage
Anisotropy	0.288	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 218.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.024 for -h,-h+k,-l	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	111235	wwPDB-VP
Average B, all atoms (Å ²)	141.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.01% 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, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ADP, SO4, BEF

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	0.34	0/3515	0.86	8/4835 (0.2%)
1	I	0.34	0/3515	0.86	8/4835 (0.2%)
1	a	0.34	0/3515	0.86	8/4835 (0.2%)
1	i	0.34	0/3515	0.86	8/4835 (0.2%)
2	B	0.37	0/3480	0.88	5/4754 (0.1%)
2	J	0.38	0/3480	0.87	5/4754 (0.1%)
2	b	0.38	0/3481	0.88	5/4755 (0.1%)
2	j	0.38	0/3478	0.88	5/4751 (0.1%)
3	C	0.34	0/3421	0.85	7/4689 (0.1%)
3	K	0.34	0/3422	0.85	7/4690 (0.1%)
3	c	0.34	0/3424	0.85	7/4693 (0.1%)
3	k	0.34	0/3424	0.85	7/4693 (0.1%)
4	D	0.34	0/3421	0.85	7/4683 (0.1%)
4	L	0.34	0/3421	0.85	7/4683 (0.1%)
4	d	0.34	0/3421	0.85	7/4683 (0.1%)
4	l	0.34	0/3421	0.85	7/4683 (0.1%)
5	E	0.34	0/3466	0.88	12/4739 (0.3%)
5	M	0.34	0/3466	0.87	12/4739 (0.3%)
5	e	0.34	0/3466	0.87	12/4739 (0.3%)
5	m	0.34	0/3466	0.88	12/4739 (0.3%)
6	F	0.39	0/3663	0.95	16/5008 (0.3%)
6	N	0.39	0/3660	0.95	16/5004 (0.3%)
6	f	0.39	0/3665	0.95	16/5009 (0.3%)
6	n	0.39	0/3661	0.95	16/5005 (0.3%)
7	G	0.34	0/3342	0.88	8/4578 (0.2%)
7	O	0.34	0/3339	0.88	8/4574 (0.2%)
7	g	0.34	0/3339	0.88	8/4574 (0.2%)
7	o	0.34	0/3339	0.88	8/4574 (0.2%)
8	H	0.32	0/3522	0.81	4/4825 (0.1%)
8	P	0.32	0/3522	0.81	4/4825 (0.1%)
8	h	0.32	0/3519	0.80	2/4820 (0.0%)
8	p	0.32	0/3522	0.81	4/4825 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	0.35	0/111311	0.87	266/152428 (0.2%)

There are no bond length outliers.

All (266) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	375	LYS	N-CA-C	10.89	123.23	111.36
3	c	1375	LYS	N-CA-C	10.88	123.22	111.36
3	K	375	LYS	N-CA-C	10.87	123.20	111.36
3	k	1375	LYS	N-CA-C	10.84	123.17	111.36
7	G	76	VAL	N-CA-C	9.21	120.02	110.72
7	g	1076	VAL	N-CA-C	9.21	120.02	110.72
7	O	76	VAL	N-CA-C	9.18	119.99	110.72
7	o	1076	VAL	N-CA-C	9.17	119.98	110.72
5	m	1253	GLN	N-CA-C	9.07	120.93	111.14
5	E	253	GLN	N-CA-C	9.05	120.92	111.14
5	M	253	GLN	N-CA-C	9.05	120.91	111.14
5	e	1253	GLN	N-CA-C	9.01	120.87	111.14
4	D	350	VAL	CB-CA-C	8.77	120.41	110.41
4	d	1350	VAL	CB-CA-C	8.76	120.40	110.41
4	l	1350	VAL	CB-CA-C	8.76	120.40	110.41
4	L	350	VAL	CB-CA-C	8.75	120.38	110.41
8	p	1482	HIS	N-CA-C	-8.50	102.62	113.16
8	h	1482	HIS	N-CA-C	-8.46	102.67	113.16
8	H	482	HIS	N-CA-C	-8.45	102.68	113.16
8	P	482	HIS	N-CA-C	-8.45	102.69	113.16
2	j	1491	TYR	N-CA-C	8.03	120.04	111.28
2	b	1491	TYR	N-CA-C	8.02	120.03	111.28
2	B	491	TYR	N-CA-C	8.01	120.02	111.28
2	J	491	TYR	N-CA-C	8.01	120.01	111.28
4	L	350	VAL	N-CA-C	-7.99	93.36	107.18
4	d	1350	VAL	N-CA-C	-7.99	93.37	107.18
4	l	1350	VAL	N-CA-C	-7.98	93.37	107.18
4	D	350	VAL	N-CA-C	-7.96	93.41	107.18
7	g	1167	SER	N-CA-C	7.95	119.95	111.28
7	G	167	SER	N-CA-C	7.95	119.95	111.28
7	o	1167	SER	N-CA-C	7.92	119.91	111.28
7	O	167	SER	N-CA-C	7.92	119.91	111.28
7	o	1350	ALA	N-CA-C	7.76	119.74	111.28
7	O	350	ALA	N-CA-C	7.75	119.72	111.28
7	G	350	ALA	N-CA-C	7.74	119.71	111.28
7	g	1350	ALA	N-CA-C	7.71	119.69	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	60	LYS	N-CA-C	-7.66	102.93	111.28
6	f	1060	LYS	N-CA-C	-7.65	102.94	111.28
6	n	1060	LYS	N-CA-C	-7.64	102.95	111.28
6	F	60	LYS	N-CA-C	-7.63	102.96	111.28
6	f	1432	ASN	N-CA-C	-7.50	103.70	114.12
6	n	1432	ASN	N-CA-C	-7.47	103.73	114.12
6	F	432	ASN	N-CA-C	-7.47	103.74	114.12
6	N	432	ASN	N-CA-C	-7.46	103.75	114.12
1	I	121	HIS	CA-C-N	7.31	127.65	119.32
1	I	121	HIS	C-N-CA	7.31	127.65	119.32
1	A	121	HIS	CA-C-N	7.30	127.64	119.32
1	A	121	HIS	C-N-CA	7.30	127.64	119.32
1	i	1121	HIS	CA-C-N	7.29	127.63	119.32
1	i	1121	HIS	C-N-CA	7.29	127.63	119.32
1	a	1121	HIS	CA-C-N	7.29	127.63	119.32
1	a	1121	HIS	C-N-CA	7.29	127.63	119.32
6	F	275	LYS	O-C-N	-7.19	113.43	122.27
6	n	1275	LYS	O-C-N	-7.15	113.47	122.27
6	f	1275	LYS	O-C-N	-7.15	113.47	122.27
6	N	275	LYS	O-C-N	-7.14	113.49	122.27
6	F	469	VAL	N-CA-C	7.05	117.94	107.15
6	n	1469	VAL	N-CA-C	7.05	117.94	107.15
6	N	469	VAL	N-CA-C	7.04	117.92	107.15
6	f	1469	VAL	N-CA-C	7.03	117.91	107.15
8	h	1315	ARG	N-CA-C	7.02	118.93	111.28
8	P	315	ARG	N-CA-C	7.01	118.92	111.28
8	p	1315	ARG	N-CA-C	6.97	118.88	111.28
8	H	315	ARG	N-CA-C	6.97	118.87	111.28
3	C	168	SER	N-CA-C	6.87	118.77	111.28
3	k	1168	SER	N-CA-C	6.87	118.76	111.28
3	c	1168	SER	N-CA-C	6.86	118.76	111.28
3	K	168	SER	N-CA-C	6.83	118.73	111.28
4	d	1420	GLU	N-CA-C	6.78	118.46	111.14
4	l	1420	GLU	N-CA-C	6.78	118.46	111.14
4	L	420	GLU	N-CA-C	6.75	118.43	111.14
4	D	420	GLU	N-CA-C	6.71	118.39	111.14
3	c	1318	ARG	N-CA-C	-6.67	101.73	110.53
3	K	318	ARG	N-CA-C	-6.66	101.73	110.53
3	C	318	ARG	N-CA-C	-6.66	101.75	110.53
3	k	1318	ARG	N-CA-C	-6.65	101.75	110.53
5	m	1033	LYS	N-CA-C	6.62	118.49	111.28
5	E	266	GLY	N-CA-C	-6.61	103.62	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	e	1266	GLY	N-CA-C	-6.60	103.64	111.36
5	m	1266	GLY	N-CA-C	-6.60	103.64	111.36
5	e	1033	LYS	N-CA-C	6.59	118.47	111.28
3	K	39	LEU	N-CA-C	6.59	119.78	110.23
1	I	437	ALA	CB-CA-C	6.58	122.92	109.55
3	C	39	LEU	N-CA-C	6.58	119.77	110.23
5	E	33	LYS	N-CA-C	6.58	118.45	111.28
5	M	266	GLY	N-CA-C	-6.58	103.66	111.36
1	a	1093	GLU	CA-C-N	6.57	133.80	121.97
1	a	1093	GLU	C-N-CA	6.57	133.80	121.97
1	i	1437	ALA	CB-CA-C	6.57	122.89	109.55
5	M	33	LYS	N-CA-C	6.57	118.44	111.28
1	A	437	ALA	CB-CA-C	6.57	122.89	109.55
3	c	1039	LEU	N-CA-C	6.57	119.75	110.23
1	a	1437	ALA	CB-CA-C	6.57	122.88	109.55
1	i	1093	GLU	CA-C-N	6.56	133.78	121.97
1	i	1093	GLU	C-N-CA	6.56	133.78	121.97
7	g	1462	ILE	N-CA-C	6.56	117.31	110.62
3	k	1039	LEU	N-CA-C	6.55	119.72	110.23
7	O	462	ILE	N-CA-C	6.55	117.30	110.62
7	G	462	ILE	N-CA-C	6.54	117.29	110.62
1	I	93	GLU	CA-C-N	6.54	133.73	121.97
1	I	93	GLU	C-N-CA	6.54	133.73	121.97
1	A	93	GLU	CA-C-N	6.53	133.72	121.97
1	A	93	GLU	C-N-CA	6.53	133.72	121.97
7	o	1462	ILE	N-CA-C	6.51	117.26	110.62
6	n	1036	ASN	N-CA-C	6.48	118.34	111.28
6	F	36	ASN	N-CA-C	6.47	118.33	111.28
6	N	36	ASN	N-CA-C	6.46	118.32	111.28
6	f	1036	ASN	N-CA-C	6.44	118.30	111.28
1	I	187	VAL	N-CA-C	6.31	118.23	112.43
1	a	1187	VAL	N-CA-C	6.30	118.22	112.43
1	i	1187	VAL	N-CA-C	6.29	118.22	112.43
1	A	187	VAL	N-CA-C	6.27	118.20	112.43
5	E	219	VAL	N-CA-C	-6.27	101.46	109.30
5	e	1219	VAL	N-CA-C	-6.23	101.51	109.30
5	m	1219	VAL	N-CA-C	-6.23	101.51	109.30
2	B	423	ASP	N-CA-C	-6.21	103.09	111.54
7	G	192	ASN	N-CA-C	-6.21	104.51	111.28
7	G	372	LYS	N-CA-C	6.21	118.05	111.28
5	M	219	VAL	N-CA-C	-6.21	101.54	109.30
2	J	423	ASP	N-CA-C	-6.21	103.10	111.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	b	1423	ASP	N-CA-C	-6.20	103.10	111.54
2	j	1423	ASP	N-CA-C	-6.20	103.11	111.54
6	F	154	ALA	CA-C-N	6.20	128.88	120.38
6	F	154	ALA	C-N-CA	6.20	128.88	120.38
6	N	154	ALA	CA-C-N	6.19	128.86	120.38
6	N	154	ALA	C-N-CA	6.19	128.86	120.38
7	O	372	LYS	N-CA-C	6.19	118.02	111.28
6	n	1154	ALA	CA-C-N	6.18	128.85	120.38
6	n	1154	ALA	C-N-CA	6.18	128.85	120.38
7	o	1192	ASN	N-CA-C	-6.17	104.56	111.28
7	g	1192	ASN	N-CA-C	-6.16	104.56	111.28
7	O	192	ASN	N-CA-C	-6.15	104.57	111.28
6	f	1154	ALA	CA-C-N	6.14	128.79	120.38
6	f	1154	ALA	C-N-CA	6.14	128.79	120.38
7	o	1372	LYS	N-CA-C	6.13	118.04	111.36
7	g	1372	LYS	N-CA-C	6.10	118.01	111.36
6	f	1119	THR	N-CA-C	-6.07	104.57	111.07
6	n	1119	THR	N-CA-C	-6.07	104.58	111.07
6	F	119	THR	N-CA-C	-6.07	104.58	111.07
5	e	1324	GLN	N-CA-C	6.06	117.97	111.36
5	m	1324	GLN	N-CA-C	6.06	117.97	111.36
6	N	119	THR	N-CA-C	-6.05	104.60	111.07
5	M	324	GLN	N-CA-C	6.04	117.95	111.36
5	E	324	GLN	N-CA-C	6.04	117.94	111.36
3	C	266	GLU	N-CA-C	6.00	117.90	111.36
3	c	1266	GLU	N-CA-C	5.95	117.84	111.36
3	k	1266	GLU	N-CA-C	5.94	117.84	111.36
3	K	266	GLU	N-CA-C	5.92	117.81	111.36
6	N	15	ARG	CB-CA-C	-5.90	109.78	116.63
6	F	15	ARG	CB-CA-C	-5.88	109.80	116.63
4	L	499	GLN	CA-C-N	5.88	125.89	119.89
4	L	499	GLN	C-N-CA	5.88	125.89	119.89
2	j	1245	ILE	N-CA-C	-5.88	104.62	110.62
6	n	1015	ARG	CB-CA-C	-5.88	109.81	116.63
2	b	1245	ILE	N-CA-C	-5.87	104.63	110.62
6	f	1015	ARG	CB-CA-C	-5.85	109.84	116.63
2	B	245	ILE	N-CA-C	-5.84	104.67	110.62
4	d	1204	ILE	N-CA-C	-5.83	104.67	110.62
6	N	275	LYS	CA-C-N	-5.83	112.47	120.28
6	N	275	LYS	C-N-CA	-5.83	112.47	120.28
4	l	1499	GLN	CA-C-N	5.83	125.84	119.89
4	l	1499	GLN	C-N-CA	5.83	125.84	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	l	1204	ILE	N-CA-C	-5.83	104.67	110.62
4	D	499	GLN	CA-C-N	5.83	125.83	119.89
4	D	499	GLN	C-N-CA	5.83	125.83	119.89
4	L	204	ILE	N-CA-C	-5.82	104.68	110.62
6	f	1275	LYS	CA-C-N	-5.82	112.48	120.28
6	f	1275	LYS	C-N-CA	-5.82	112.48	120.28
5	m	1034	ASP	N-CA-C	5.82	117.62	111.28
6	F	275	LYS	CA-C-N	-5.81	112.49	120.28
6	F	275	LYS	C-N-CA	-5.81	112.49	120.28
6	n	1275	LYS	CA-C-N	-5.81	112.49	120.28
6	n	1275	LYS	C-N-CA	-5.81	112.49	120.28
2	J	245	ILE	N-CA-C	-5.81	104.69	110.62
5	M	34	ASP	N-CA-C	5.80	117.60	111.28
5	E	34	ASP	N-CA-C	5.79	117.60	111.28
8	H	5	LEU	CA-C-N	5.79	127.08	119.84
8	H	5	LEU	C-N-CA	5.79	127.08	119.84
4	l	1520	ARG	N-CA-C	5.79	117.59	111.28
4	d	1499	GLN	CA-C-N	5.79	125.79	119.89
4	d	1499	GLN	C-N-CA	5.79	125.79	119.89
8	p	1005	LEU	CA-C-N	5.79	127.07	119.84
8	p	1005	LEU	C-N-CA	5.79	127.07	119.84
5	e	1034	ASP	N-CA-C	5.78	117.58	111.28
4	d	1520	ARG	N-CA-C	5.77	117.57	111.28
8	P	5	LEU	CA-C-N	5.76	127.04	119.84
8	P	5	LEU	C-N-CA	5.76	127.04	119.84
4	L	520	ARG	N-CA-C	5.75	117.55	111.28
4	D	204	ILE	N-CA-C	-5.75	104.76	110.62
6	N	202	LEU	CB-CA-C	-5.74	109.94	116.54
4	D	520	ARG	N-CA-C	5.74	117.53	111.28
5	e	1325	TRP	N-CA-C	5.73	117.56	108.79
6	n	1137	LYS	CB-CA-C	-5.73	109.98	116.63
5	M	325	TRP	N-CA-C	5.72	117.55	108.79
1	A	93	GLU	N-CA-C	5.72	117.52	111.28
5	m	1325	TRP	N-CA-C	5.72	117.54	108.79
6	f	1202	LEU	CB-CA-C	-5.71	109.97	116.54
6	F	137	LYS	CB-CA-C	-5.71	110.00	116.63
6	n	1202	LEU	CB-CA-C	-5.71	109.97	116.54
6	f	1137	LYS	CB-CA-C	-5.70	110.02	116.63
6	F	202	LEU	CB-CA-C	-5.70	109.98	116.54
6	N	137	LYS	CB-CA-C	-5.70	110.02	116.63
1	I	93	GLU	N-CA-C	5.69	117.48	111.28
5	E	325	TRP	N-CA-C	5.69	117.50	108.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	1093	GLU	N-CA-C	5.68	117.47	111.28
2	J	426	LYS	N-CA-C	-5.67	105.19	111.71
1	a	1093	GLU	N-CA-C	5.67	117.47	111.28
2	B	426	LYS	N-CA-C	-5.66	105.20	111.71
2	b	1426	LYS	N-CA-C	-5.63	105.23	111.71
2	j	1426	LYS	N-CA-C	-5.61	105.25	111.71
3	k	1013	GLU	N-CA-C	5.58	118.32	110.23
3	C	13	GLU	N-CA-C	5.57	118.30	110.23
3	K	13	GLU	N-CA-C	5.56	118.30	110.23
3	c	1013	GLU	N-CA-C	5.54	118.26	110.23
7	G	43	THR	N-CA-C	5.53	119.13	112.38
7	g	1043	THR	N-CA-C	5.50	119.09	112.38
6	N	161	LYS	CB-CA-C	-5.50	110.25	116.63
6	F	161	LYS	CB-CA-C	-5.49	110.26	116.63
6	n	1161	LYS	CB-CA-C	-5.49	110.26	116.63
7	O	43	THR	N-CA-C	5.49	119.08	112.38
7	o	1043	THR	N-CA-C	5.48	119.06	112.38
6	N	156	SER	N-CA-C	-5.46	105.33	111.28
6	f	1161	LYS	CB-CA-C	-5.46	110.30	116.63
6	f	1156	SER	N-CA-C	-5.44	105.35	111.28
6	F	156	SER	N-CA-C	-5.44	105.35	111.28
6	n	1156	SER	N-CA-C	-5.44	105.35	111.28
3	k	1462	GLY	N-CA-C	-5.43	105.00	111.36
7	G	94	VAL	N-CA-C	-5.42	107.34	111.62
3	K	462	GLY	N-CA-C	-5.42	105.02	111.36
3	c	1462	GLY	N-CA-C	-5.42	105.02	111.36
3	C	462	GLY	N-CA-C	-5.41	105.03	111.36
7	o	1094	VAL	N-CA-C	-5.39	107.36	111.62
7	O	94	VAL	N-CA-C	-5.38	107.37	111.62
7	g	1094	VAL	N-CA-C	-5.38	107.37	111.62
2	B	57	THR	N-CA-C	5.31	117.18	110.33
2	J	57	THR	N-CA-C	5.30	117.17	110.33
2	b	1057	THR	N-CA-C	5.29	117.16	110.33
2	j	1057	THR	N-CA-C	5.29	117.15	110.33
5	m	1265	ASP	CB-CA-C	-5.28	110.47	116.54
5	m	1166	ASP	CA-C-N	5.27	131.19	121.70
5	m	1166	ASP	C-N-CA	5.27	131.19	121.70
5	M	166	ASP	CA-C-N	5.27	131.19	121.70
5	M	166	ASP	C-N-CA	5.27	131.19	121.70
5	E	166	ASP	CA-C-N	5.27	131.18	121.70
5	E	166	ASP	C-N-CA	5.27	131.18	121.70
5	e	1265	ASP	CB-CA-C	-5.27	110.48	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	e	1166	ASP	CA-C-N	5.26	131.16	121.70
5	e	1166	ASP	C-N-CA	5.26	131.16	121.70
5	M	265	ASP	CB-CA-C	-5.24	110.51	116.54
5	E	265	ASP	CB-CA-C	-5.23	110.52	116.54
5	m	1047	LYS	N-CA-C	-5.15	106.94	113.43
5	E	47	LYS	N-CA-C	-5.14	106.95	113.43
5	M	47	LYS	N-CA-C	-5.13	106.97	113.43
5	e	1047	LYS	N-CA-C	-5.12	106.97	113.43
5	E	223	LEU	N-CA-C	-5.12	107.08	113.38
5	m	1223	LEU	N-CA-C	-5.11	107.09	113.38
5	e	1223	LEU	N-CA-C	-5.10	107.11	113.38
6	f	1435	GLY	N-CA-C	-5.09	106.62	112.73
6	N	435	GLY	N-CA-C	-5.08	106.64	112.73
1	A	442	SER	CB-CA-C	-5.07	110.33	117.23
6	n	1435	GLY	N-CA-C	-5.07	106.64	112.73
5	M	223	LEU	N-CA-C	-5.07	107.15	113.38
6	F	435	GLY	N-CA-C	-5.07	106.65	112.73
1	a	1442	SER	CB-CA-C	-5.07	110.34	117.23
1	i	1442	SER	CB-CA-C	-5.06	110.35	117.23
1	I	442	SER	CB-CA-C	-5.03	110.39	117.23

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3492	0	3026	308	0
1	I	3492	0	3026	301	0
1	a	3492	0	3026	304	0
1	i	3492	0	3026	314	0
2	B	3459	0	3146	495	0
2	J	3459	0	3146	505	0
2	b	3460	0	3148	506	0
2	j	3457	0	3139	496	0
3	C	3392	0	3019	313	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	K	3393	0	3022	292	0
3	c	3395	0	3029	316	0
3	k	3395	0	3029	331	0
4	D	3398	0	3010	360	0
4	L	3398	0	3010	339	0
4	d	3398	0	3010	315	0
4	l	3398	0	3010	333	0
5	E	3437	0	2943	292	0
5	M	3437	0	2943	296	0
5	e	3437	0	2943	295	0
5	m	3437	0	2943	308	0
6	F	3631	0	3330	659	0
6	N	3628	0	3321	653	0
6	f	3633	0	3333	676	0
6	n	3629	0	3322	670	0
7	G	3317	0	2920	395	0
7	O	3314	0	2911	387	0
7	g	3314	0	2911	381	0
7	o	3314	0	2911	383	0
8	H	3487	0	3109	314	0
8	P	3487	0	3109	291	0
8	h	3485	0	3103	286	0
8	p	3487	0	3109	290	0
9	A	27	0	11	3	0
9	B	27	0	11	8	0
9	C	27	0	12	7	0
9	D	27	0	11	8	0
9	E	27	0	11	2	0
9	F	27	0	11	6	0
9	G	27	0	11	5	0
9	H	27	0	12	3	0
9	J	27	0	11	6	0
9	L	27	0	11	7	0
9	M	27	0	11	6	0
9	N	27	0	11	6	0
9	P	27	0	12	5	0
9	a	27	0	11	2	0
9	b	27	0	11	3	0
9	e	27	0	12	3	0
9	f	27	0	11	6	0
9	g	27	0	11	8	0
9	h	27	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	k	27	0	11	9	0
9	l	27	0	11	8	0
9	m	27	0	11	4	0
9	n	27	0	11	4	0
9	p	27	0	12	3	0
10	A	4	0	0	0	0
10	B	4	0	0	0	0
10	C	4	0	0	3	0
10	D	4	0	0	0	0
10	E	4	0	0	0	0
10	F	4	0	0	2	0
10	G	4	0	0	0	0
10	H	4	0	0	0	0
10	J	4	0	0	0	0
10	L	4	0	0	1	0
10	M	4	0	0	0	0
10	N	4	0	0	3	0
10	P	4	0	0	0	0
10	a	4	0	0	0	0
10	b	4	0	0	0	0
10	e	4	0	0	0	0
10	f	4	0	0	0	0
10	g	4	0	0	0	0
10	h	4	0	0	1	0
10	k	4	0	0	0	0
10	l	4	0	0	0	0
10	m	4	0	0	0	0
10	n	4	0	0	0	0
10	p	4	0	0	0	0
11	I	5	0	0	0	0
11	K	5	0	0	0	0
11	O	5	0	0	0	0
11	c	5	0	0	0	0
11	d	5	0	0	0	0
11	i	5	0	0	0	0
11	j	5	0	0	1	0
11	o	5	0	0	0	0
12	B	1	0	0	0	0
12	E	1	0	0	0	0
12	G	1	0	0	0	0
12	M	1	0	0	0	0
12	e	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	g	1	0	0	0	0
12	m	1	0	0	0	0
All	All	111235	0	98253	11582	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 55.

All (11582) 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)
3:k:1301:VAL:CG2	3:k:1305:ALA:HB1	1.28	1.61
3:c:1301:VAL:CG2	3:c:1305:ALA:HB1	1.28	1.60
3:k:1301:VAL:HG22	3:k:1305:ALA:CB	1.25	1.60
3:c:1301:VAL:HG22	3:c:1305:ALA:CB	1.25	1.56
2:b:1348:LEU:HG	6:f:1085:GLU:C	1.31	1.54
2:b:1004:GLN:HA	2:b:1005:ILE:CG1	1.37	1.53
6:f:1439:LYS:HE3	5:m:1034:ASP:CB	1.06	1.53
2:B:4:GLN:HA	2:B:5:ILE:CG1	1.37	1.53
6:f:1439:LYS:CE	5:m:1034:ASP:CB	1.87	1.51
8:h:1006:PRO:CB	4:l:1071:LEU:CB	1.87	1.51
2:j:1004:GLN:HA	2:j:1005:ILE:CG1	1.37	1.51
6:f:1151:LEU:CD1	6:f:1175:THR:CG2	1.89	1.49
2:J:4:GLN:HA	2:J:5:ILE:CG1	1.37	1.48
6:n:1036:ASN:HB3	6:n:1057:LYS:NZ	1.28	1.48
6:n:1151:LEU:CD1	6:n:1175:THR:CG2	1.90	1.47
6:f:1434:LEU:HD22	6:f:1441:LYS:CB	1.45	1.47
6:N:36:ASN:HB3	6:N:57:LYS:NZ	1.28	1.46
6:F:151:LEU:CD1	6:F:175:THR:CG2	1.90	1.46
6:N:151:LEU:CD1	6:N:175:THR:CG2	1.90	1.46
6:N:434:LEU:HD22	6:N:441:LYS:CB	1.45	1.46
6:n:1434:LEU:HD22	6:n:1441:LYS:CB	1.45	1.45
3:c:1301:VAL:CG2	3:c:1305:ALA:CB	1.80	1.45
8:H:6:PRO:HG3	4:L:71:LEU:CB	1.43	1.45
3:k:1301:VAL:CG2	3:k:1305:ALA:CB	1.80	1.44
6:F:541:LEU:CB	6:F:542:LYS:HA	1.31	1.44
6:F:434:LEU:HD22	6:F:441:LYS:CB	1.45	1.43
6:F:151:LEU:HD13	6:F:175:THR:CG2	0.95	1.43
2:b:1348:LEU:CD2	6:f:1086:ILE:HA	1.46	1.43
6:F:36:ASN:HB3	6:F:57:LYS:NZ	1.28	1.43
6:n:1151:LEU:HD13	6:n:1175:THR:CG2	0.95	1.43
6:n:1541:LEU:CB	6:n:1542:LYS:HA	1.31	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1151:LEU:HD13	6:f:1175:THR:CG2	0.95	1.42
7:o:1189:LEU:HA	7:o:1190:ASP:CB	1.23	1.41
7:G:189:LEU:HA	7:G:190:ASP:CB	1.23	1.41
6:N:151:LEU:HD13	6:N:175:THR:CG2	0.95	1.41
6:N:541:LEU:CB	6:N:542:LYS:HA	1.30	1.41
7:g:1189:LEU:HA	7:g:1190:ASP:CB	1.23	1.40
6:f:1036:ASN:HB3	6:f:1057:LYS:NZ	1.28	1.40
6:f:1352:GLY:CA	6:f:1369:GLU:O	1.70	1.40
6:F:352:GLY:CA	6:F:369:GLU:O	1.70	1.39
6:N:352:GLY:CA	6:N:369:GLU:O	1.70	1.39
6:n:1352:GLY:CA	6:n:1369:GLU:O	1.70	1.39
4:d:1071:LEU:CB	8:p:1006:PRO:HG3	1.51	1.39
7:O:189:LEU:HA	7:O:190:ASP:CB	1.23	1.39
6:f:1541:LEU:CB	6:f:1542:LYS:HA	1.31	1.38
4:D:71:LEU:CB	8:P:6:PRO:HG3	1.51	1.38
6:F:541:LEU:HB2	6:F:542:LYS:CA	1.51	1.37
8:h:1006:PRO:CB	8:h:1007:GLN:HA	1.38	1.36
6:F:117:ILE:CD1	5:M:34:ASP:HA	1.51	1.35
2:b:1004:GLN:CA	2:b:1005:ILE:HG12	1.59	1.33
6:n:1541:LEU:HB2	6:n:1542:LYS:CA	1.51	1.33
7:O:516:LEU:HD22	7:O:516:LEU:C	1.54	1.33
2:J:4:GLN:CA	2:J:5:ILE:HG12	1.59	1.33
6:f:1541:LEU:HB2	6:f:1542:LYS:CA	1.51	1.33
2:B:4:GLN:CA	2:B:5:ILE:HG12	1.59	1.32
6:n:1352:GLY:HA3	6:n:1369:GLU:C	1.54	1.32
2:j:1004:GLN:CA	2:j:1005:ILE:HG12	1.59	1.31
6:N:541:LEU:HB2	6:N:542:LYS:CA	1.51	1.31
5:e:1034:ASP:HA	6:n:1117:ILE:CD1	1.60	1.31
6:N:151:LEU:CD1	6:N:175:THR:HG21	1.54	1.30
6:n:1151:LEU:CD1	6:n:1175:THR:HG21	1.54	1.30
6:F:352:GLY:HA3	6:F:369:GLU:C	1.54	1.30
6:N:352:GLY:HA3	6:N:369:GLU:C	1.54	1.29
1:a:1250:ASN:HB2	1:a:1300:LYS:CB	1.62	1.29
7:o:1516:LEU:C	7:o:1516:LEU:HD22	1.54	1.29
6:F:151:LEU:CD1	6:F:175:THR:HG21	1.54	1.29
8:H:6:PRO:CG	4:L:71:LEU:CB	2.10	1.29
6:f:1352:GLY:HA3	6:f:1369:GLU:C	1.55	1.29
1:i:1250:ASN:HB2	1:i:1300:LYS:CB	1.62	1.29
6:f:1151:LEU:CD1	6:f:1175:THR:HG21	1.54	1.28
1:A:184:LEU:HD21	1:A:198:TYR:CD2	1.67	1.27
1:I:184:LEU:HD21	1:I:198:TYR:CD2	1.67	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1184:LEU:HD21	1:i:1198:TYR:CD2	1.67	1.27
1:I:250:ASN:HB2	1:I:300:LYS:CB	1.62	1.27
2:J:361:ALA:N	2:J:362:GLY:HA2	1.31	1.27
1:a:1184:LEU:HD21	1:a:1198:TYR:CD2	1.67	1.27
1:A:250:ASN:HB2	1:A:300:LYS:CB	1.62	1.26
6:F:36:ASN:CB	6:F:57:LYS:HZ3	1.48	1.26
7:G:516:LEU:HD22	7:G:516:LEU:C	1.54	1.26
7:g:1516:LEU:C	7:g:1516:LEU:HD22	1.54	1.26
7:O:235:LYS:HA	7:O:352:PHE:O	1.35	1.25
2:B:361:ALA:N	2:B:362:GLY:HA2	1.31	1.25
7:G:235:LYS:HA	7:G:352:PHE:O	1.35	1.25
6:N:352:GLY:O	6:N:367:VAL:CG1	1.85	1.25
4:d:1071:LEU:CB	8:p:1006:PRO:CG	2.12	1.25
6:n:1094:VAL:O	6:n:1098:VAL:CG2	1.85	1.25
2:B:463:ILE:O	2:B:467:ILE:CG1	1.85	1.24
6:N:94:VAL:O	6:N:98:VAL:CG2	1.85	1.24
6:f:1094:VAL:O	6:f:1098:VAL:CG2	1.85	1.24
6:f:1352:GLY:O	6:f:1367:VAL:CG1	1.85	1.24
4:D:521:ILE:HA	7:G:50:ASP:O	1.37	1.24
2:j:1463:ILE:O	2:j:1467:ILE:CG1	1.85	1.24
2:b:1463:ILE:O	2:b:1467:ILE:CG1	1.85	1.24
6:F:352:GLY:O	6:F:367:VAL:CG1	1.85	1.23
6:n:1352:GLY:O	6:n:1367:VAL:CG1	1.85	1.23
7:o:1189:LEU:CA	7:o:1190:ASP:CB	2.14	1.23
2:j:1361:ALA:N	2:j:1362:GLY:HA2	1.31	1.23
6:F:151:LEU:CD1	6:F:175:THR:HG23	1.60	1.23
6:F:94:VAL:O	6:F:98:VAL:CG2	1.85	1.23
2:J:463:ILE:O	2:J:467:ILE:CG1	1.85	1.23
7:O:189:LEU:CA	7:O:190:ASP:CB	2.14	1.23
2:J:463:ILE:O	2:J:467:ILE:HG12	1.05	1.22
2:b:1361:ALA:N	2:b:1362:GLY:HA2	1.31	1.22
2:B:463:ILE:O	2:B:467:ILE:HG12	1.06	1.22
6:F:90:GLY:O	6:F:94:VAL:HG23	1.40	1.22
6:n:1090:GLY:O	6:n:1094:VAL:HG23	1.40	1.22
2:b:1348:LEU:HG	6:f:1085:GLU:O	1.37	1.22
2:j:1463:ILE:O	2:j:1467:ILE:HG12	1.06	1.22
1:I:184:LEU:HD21	1:I:198:TYR:CG	1.75	1.21
6:f:1151:LEU:CD1	6:f:1175:THR:HG23	1.60	1.21
7:g:1189:LEU:CA	7:g:1190:ASP:CB	2.14	1.21
7:G:189:LEU:CA	7:G:190:ASP:CB	2.14	1.21
4:L:521:ILE:HA	7:O:50:ASP:O	1.37	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1521:ILE:HA	7:o:1050:ASP:O	1.37	1.20
2:b:1348:LEU:CG	6:f:1085:GLU:O	1.88	1.20
1:A:184:LEU:HD21	1:A:198:TYR:CG	1.75	1.20
6:F:478:ASP:O	6:F:482:ASP:CB	1.90	1.20
1:a:1184:LEU:HD21	1:a:1198:TYR:CG	1.75	1.20
6:f:1478:ASP:O	6:f:1482:ASP:CB	1.90	1.20
7:o:1235:LYS:HA	7:o:1352:PHE:O	1.35	1.20
7:g:1235:LYS:HA	7:g:1352:PHE:O	1.35	1.20
6:N:478:ASP:O	6:N:482:ASP:CB	1.90	1.19
7:o:1189:LEU:CA	7:o:1190:ASP:HB3	1.71	1.19
4:D:71:LEU:CB	8:P:6:PRO:CG	2.20	1.19
4:D:521:ILE:HD11	7:G:62:ILE:HD11	1.20	1.19
2:b:1463:ILE:O	2:b:1467:ILE:HG12	1.06	1.19
1:i:1184:LEU:HD21	1:i:1198:TYR:CG	1.75	1.19
7:G:189:LEU:CA	7:G:190:ASP:HB3	1.71	1.19
7:g:1189:LEU:CA	7:g:1190:ASP:HB3	1.71	1.19
6:f:1090:GLY:O	6:f:1094:VAL:HG23	1.40	1.19
6:N:90:GLY:O	6:N:94:VAL:HG23	1.40	1.18
6:n:1151:LEU:CD1	6:n:1175:THR:HG23	1.60	1.18
6:n:1478:ASP:O	6:n:1482:ASP:CB	1.90	1.18
3:c:1250:LEU:HG	3:c:1301:VAL:CG2	1.72	1.18
6:N:151:LEU:CD1	6:N:175:THR:HG23	1.60	1.18
7:O:189:LEU:CA	7:O:190:ASP:HB3	1.71	1.18
3:k:1250:LEU:HG	3:k:1301:VAL:CG2	1.72	1.18
4:L:524:ILE:HA	7:O:52:LEU:O	1.41	1.17
4:L:524:ILE:HG12	7:O:52:LEU:CB	1.72	1.17
3:C:457:ILE:HD13	3:C:467:LEU:HD13	1.26	1.17
8:p:1054:ILE:HG13	8:p:1064:ILE:HG12	1.21	1.17
2:J:4:GLN:HA	2:J:5:ILE:CB	1.73	1.16
6:N:36:ASN:CB	6:N:57:LYS:HZ3	1.59	1.16
6:n:1036:ASN:CB	6:n:1057:LYS:HZ3	1.58	1.16
3:k:1457:ILE:HD13	3:k:1467:LEU:HD13	1.26	1.16
4:l:1520:ARG:O	7:o:1049:SER:HB3	1.46	1.16
6:f:1501:PRO:HB3	6:f:1506:ILE:HB	1.27	1.15
6:n:1094:VAL:O	6:n:1098:VAL:HG23	0.98	1.15
8:H:54:ILE:HG13	8:H:64:ILE:HG12	1.21	1.15
6:n:1501:PRO:HB3	6:n:1506:ILE:HB	1.27	1.15
6:f:1094:VAL:O	6:f:1098:VAL:HG23	0.98	1.15
6:f:1478:ASP:O	6:f:1482:ASP:HB2	1.47	1.15
6:n:1434:LEU:HD23	6:n:1434:LEU:H	0.98	1.15
2:B:4:GLN:HA	2:B:5:ILE:CB	1.73	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:273:THR:HG22	5:E:364:PRO:HA	1.29	1.15
6:F:94:VAL:O	6:F:98:VAL:HG23	0.98	1.14
1:I:228:VAL:HG22	1:I:363:GLN:HE22	1.03	1.14
8:h:1006:PRO:CB	8:h:1007:GLN:CA	2.23	1.14
8:h:1054:ILE:HG13	8:h:1064:ILE:HG12	1.21	1.14
4:D:524:ILE:HG12	7:G:52:LEU:CB	1.77	1.14
4:L:524:ILE:CG1	7:O:52:LEU:HB3	1.77	1.14
7:O:191:ARG:HA	7:O:191:ARG:HE	1.12	1.14
2:b:1200:GLY:HA3	2:b:1369:LEU:HD23	1.30	1.14
5:m:1273:THR:HG22	5:m:1364:PRO:HA	1.29	1.14
4:l:1524:ILE:HG12	7:o:1052:LEU:CB	1.77	1.13
6:n:1166:LEU:O	6:n:1167:THR:HG23	1.48	1.13
6:F:434:LEU:CD2	6:F:441:LYS:CB	2.26	1.13
6:N:94:VAL:O	6:N:98:VAL:HG23	0.98	1.13
6:N:501:PRO:HB3	6:N:506:ILE:HB	1.27	1.13
3:C:230:VAL:HG11	3:C:302:SER:OG	1.49	1.13
3:K:230:VAL:HG11	3:K:302:SER:OG	1.49	1.13
1:a:1090:GLN:HG3	1:a:1101:VAL:HG21	1.27	1.13
2:b:1004:GLN:HA	2:b:1005:ILE:CB	1.73	1.13
6:f:1166:LEU:O	6:f:1167:THR:HG23	1.48	1.13
3:k:1230:VAL:HG11	3:k:1302:SER:OG	1.49	1.13
5:E:34:ASP:HA	6:N:117:ILE:CD1	1.78	1.12
6:N:434:LEU:CD2	6:N:441:LYS:CB	2.27	1.12
7:G:94:VAL:HG21	7:G:502:VAL:HG22	1.17	1.12
1:a:1228:VAL:HG22	1:a:1363:GLN:HE22	1.03	1.12
6:f:1434:LEU:CD2	6:f:1441:LYS:CB	2.27	1.12
6:n:1434:LEU:CD2	6:n:1441:LYS:CB	2.26	1.12
2:j:1357:SER:HB3	2:j:1360:LYS:CB	1.79	1.12
1:A:228:VAL:HG22	1:A:363:GLN:HE22	1.03	1.12
4:D:520:ARG:O	7:G:49:SER:HB3	1.47	1.12
2:j:1029:VAL:O	2:j:1033:VAL:HG22	1.50	1.12
2:B:200:GLY:HA3	2:B:369:LEU:HD23	1.30	1.12
6:F:166:LEU:O	6:F:167:THR:HG23	1.48	1.12
6:N:478:ASP:O	6:N:482:ASP:HB2	1.47	1.12
7:O:94:VAL:HG21	7:O:502:VAL:HG22	1.17	1.11
2:b:1348:LEU:CD1	6:f:1085:GLU:O	1.97	1.11
6:f:1036:ASN:CB	6:f:1057:LYS:HZ3	1.61	1.11
6:f:1434:LEU:HD23	6:f:1434:LEU:H	0.98	1.11
6:N:166:LEU:O	6:N:167:THR:HG23	1.48	1.11
8:P:206:SER:HB2	8:P:381:THR:HG22	1.32	1.11
6:f:1434:LEU:HD23	6:f:1434:LEU:N	1.63	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:273:THR:HG22	5:M:364:PRO:HA	1.29	1.11
6:N:434:LEU:HD23	6:N:434:LEU:H	0.98	1.11
4:D:521:ILE:CD1	7:G:62:ILE:HD11	1.79	1.11
6:F:434:LEU:HD23	6:F:434:LEU:H	0.98	1.11
2:J:357:SER:HB3	2:J:360:LYS:CB	1.79	1.11
4:L:521:ILE:HD11	7:O:62:ILE:HD11	1.28	1.11
8:P:54:ILE:HG13	8:P:64:ILE:HG12	1.21	1.11
2:b:1357:SER:HB3	2:b:1360:LYS:CB	1.79	1.11
7:g:1094:VAL:HG21	7:g:1502:VAL:HG22	1.17	1.11
4:l:1521:ILE:CD1	7:o:1062:ILE:HD11	1.80	1.11
6:F:274:LEU:HD21	6:F:308:VAL:HG11	1.31	1.11
6:N:274:LEU:HD21	6:N:308:VAL:HG11	1.31	1.11
2:b:1029:VAL:O	2:b:1033:VAL:HG22	1.50	1.11
5:e:1273:THR:CG2	5:e:1364:PRO:HA	1.81	1.11
3:k:1301:VAL:HG22	3:k:1305:ALA:HB3	1.12	1.11
6:F:53:ILE:HD12	6:F:53:ILE:O	1.49	1.10
3:c:1250:LEU:HG	3:c:1301:VAL:HG23	1.23	1.10
6:f:1083:GLN:HG3	6:f:1094:VAL:HG21	1.32	1.10
7:g:1191:ARG:HA	7:g:1191:ARG:HE	1.12	1.10
3:k:1250:LEU:HG	3:k:1301:VAL:HG23	1.23	1.10
8:p:1206:SER:HB2	8:p:1381:THR:HG22	1.32	1.10
2:B:357:SER:HB3	2:B:360:LYS:CB	1.79	1.10
2:B:422:ILE:HB	2:B:427:SER:HB2	1.28	1.10
3:c:1230:VAL:HG11	3:c:1302:SER:OG	1.49	1.10
1:i:1090:GLN:HG3	1:i:1101:VAL:HG21	1.27	1.10
1:i:1494:ARG:CB	1:i:1495:ARG:CA	2.30	1.10
6:n:1083:GLN:HG3	6:n:1094:VAL:HG21	1.32	1.10
6:F:478:ASP:O	6:F:482:ASP:HB2	1.47	1.10
2:J:200:GLY:HA3	2:J:369:LEU:HD23	1.30	1.10
1:a:1494:ARG:CB	1:a:1495:ARG:CA	2.29	1.10
3:c:1457:ILE:HD13	3:c:1467:LEU:HD13	1.26	1.10
6:f:1053:ILE:HD12	6:f:1053:ILE:O	1.49	1.10
6:n:1478:ASP:O	6:n:1482:ASP:HB2	1.47	1.10
7:o:1189:LEU:HA	7:o:1190:ASP:HB2	1.26	1.10
1:A:494:ARG:CB	1:A:495:ARG:CA	2.29	1.10
6:N:143:LEU:HD13	6:N:145:ASN:H	0.94	1.10
6:f:1439:LYS:H	6:f:1439:LYS:HD2	1.15	1.10
6:n:1053:ILE:HD12	6:n:1053:ILE:O	1.49	1.10
2:J:29:VAL:O	2:J:33:VAL:HG22	1.50	1.10
2:b:1348:LEU:CG	6:f:1085:GLU:C	2.25	1.10
4:d:1524:ILE:HA	7:g:1052:LEU:O	1.49	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1009:ARG:CB	1:i:1010:SER:CA	2.30	1.10
5:m:1273:THR:CG2	5:m:1364:PRO:HA	1.81	1.10
2:B:29:VAL:O	2:B:33:VAL:HG22	1.50	1.09
1:I:494:ARG:CB	1:I:495:ARG:CA	2.30	1.09
6:N:53:ILE:HD12	6:N:53:ILE:O	1.49	1.09
2:b:1422:ILE:HB	2:b:1427:SER:HB2	1.28	1.09
8:h:1206:SER:HB2	8:h:1381:THR:HG22	1.32	1.09
7:o:1094:VAL:HG21	7:o:1502:VAL:HG22	1.17	1.09
1:A:9:ARG:CB	1:A:10:SER:CA	2.30	1.09
6:F:83:GLN:HG3	6:F:94:VAL:HG21	1.32	1.09
6:N:3:LEU:N	6:N:4:GLN:HB2	1.68	1.09
6:f:1002:SER:C	6:f:1004:GLN:HB2	1.77	1.09
4:l:1521:ILE:HD11	7:o:1062:ILE:HD11	1.20	1.09
1:I:9:ARG:CB	1:I:10:SER:CA	2.30	1.09
2:j:1004:GLN:HA	2:j:1005:ILE:CB	1.73	1.09
7:G:191:ARG:HA	7:G:191:ARG:HE	1.12	1.09
3:K:457:ILE:HD13	3:K:467:LEU:HD13	1.26	1.09
5:m:1186:THR:HG21	5:m:1528:VAL:O	1.51	1.09
2:J:422:ILE:HB	2:J:427:SER:HB2	1.28	1.09
5:M:273:THR:CG2	5:M:364:PRO:HA	1.81	1.09
4:d:1521:ILE:HA	7:g:1050:ASP:O	1.53	1.09
6:f:1274:LEU:HD21	6:f:1308:VAL:HG11	1.31	1.09
2:j:1242:LYS:NZ	2:j:1247:GLY:O	1.86	1.09
4:l:1521:ILE:HD11	7:o:1062:ILE:CD1	1.83	1.09
7:O:189:LEU:HA	7:O:190:ASP:HB2	1.26	1.08
4:d:1072:HIS:HB2	4:d:1075:ALA:HB3	1.35	1.08
5:e:1273:THR:HG22	5:e:1364:PRO:HA	1.29	1.08
5:E:186:THR:HG21	5:E:528:VAL:O	1.51	1.08
6:F:3:LEU:N	6:F:4:GLN:HB2	1.68	1.08
4:L:521:ILE:HD11	7:O:62:ILE:CD1	1.82	1.08
4:L:521:ILE:CD1	7:O:62:ILE:HD11	1.82	1.08
2:b:1242:LYS:NZ	2:b:1247:GLY:O	1.86	1.08
6:f:1117:ILE:HD11	5:m:1034:ASP:HA	1.15	1.08
6:n:1002:SER:C	6:n:1004:GLN:HB2	1.77	1.08
6:n:1274:LEU:HD21	6:n:1308:VAL:HG11	1.31	1.08
5:E:273:THR:CG2	5:E:364:PRO:HA	1.81	1.08
1:a:1009:ARG:CB	1:a:1010:SER:CA	2.30	1.08
6:n:1352:GLY:HA3	6:n:1369:GLU:O	0.90	1.08
3:C:264:GLU:O	3:C:265:LYS:HG3	1.54	1.08
5:M:186:THR:HG21	5:M:528:VAL:O	1.51	1.08
6:N:352:GLY:HA3	6:N:369:GLU:O	0.90	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1189:LEU:HA	7:g:1190:ASP:HB2	1.26	1.08
3:k:1264:GLU:O	3:k:1265:LYS:HG3	1.54	1.08
6:n:1003:LEU:N	6:n:1004:GLN:HB2	1.67	1.08
1:A:90:GLN:HG3	1:A:101:VAL:HG21	1.27	1.08
4:D:521:ILE:HD11	7:G:62:ILE:CD1	1.82	1.08
8:H:206:SER:HB2	8:H:381:THR:HG22	1.32	1.08
1:I:90:GLN:HG3	1:I:101:VAL:HG21	1.27	1.08
1:a:1009:ARG:CB	1:a:1010:SER:HA	1.84	1.08
1:i:1228:VAL:HG22	1:i:1363:GLN:HE22	1.03	1.08
4:D:524:ILE:CG1	7:G:52:LEU:HB3	1.84	1.07
5:E:34:ASP:HA	6:N:117:ILE:HD11	1.11	1.07
6:F:2:SER:C	6:F:4:GLN:HB2	1.77	1.07
4:L:250:ASN:HA	7:O:259:VAL:HG12	1.35	1.07
3:c:1301:VAL:HG22	3:c:1305:ALA:HB3	1.12	1.07
6:f:1003:LEU:N	6:f:1004:GLN:HB2	1.67	1.07
6:n:1489:VAL:O	6:n:1490:GLY:O	1.72	1.07
7:o:1191:ARG:HA	7:o:1191:ARG:HE	1.12	1.07
6:F:143:LEU:HD13	6:F:145:ASN:H	0.93	1.07
6:F:352:GLY:HA3	6:F:369:GLU:O	0.90	1.07
6:F:539:SER:HB3	6:F:542:LYS:HD2	1.37	1.07
8:H:237:LYS:HB3	8:H:314:ASN:CB	1.84	1.07
2:J:242:LYS:NZ	2:J:247:GLY:O	1.86	1.07
5:e:1186:THR:HG21	5:e:1528:VAL:O	1.51	1.07
7:o:1188:SER:O	7:o:1190:ASP:HB2	1.54	1.07
6:N:2:SER:C	6:N:4:GLN:HB2	1.77	1.07
4:d:1524:ILE:HG12	7:g:1052:LEU:CB	1.84	1.07
2:j:1422:ILE:HB	2:j:1427:SER:HB2	1.28	1.07
6:n:1430:ASN:O	6:n:1433:LYS:HB2	1.55	1.07
4:D:72:HIS:HB2	4:D:75:ALA:HB3	1.35	1.07
6:F:501:PRO:HB3	6:F:506:ILE:HB	1.27	1.07
7:G:189:LEU:HA	7:G:190:ASP:HB2	1.26	1.07
6:N:539:SER:HB3	6:N:542:LYS:HD2	1.37	1.07
8:P:237:LYS:HB3	8:P:314:ASN:CB	1.85	1.07
6:f:1352:GLY:HA3	6:f:1369:GLU:O	0.90	1.07
2:j:1200:GLY:HA3	2:j:1369:LEU:HD23	1.30	1.07
2:b:1514:ILE:HD12	3:c:1047:MET:HB3	1.37	1.06
3:c:1264:GLU:O	3:c:1265:LYS:HG3	1.54	1.06
4:l:1524:ILE:CG1	7:o:1052:LEU:HB3	1.85	1.06
6:n:1539:SER:HB3	6:n:1542:LYS:HD2	1.37	1.06
1:A:93:GLU:CB	1:A:94:ILE:HD12	1.86	1.06
2:B:5:ILE:O	3:C:71:ALA:N	1.87	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:188:SER:O	7:G:190:ASP:HB2	1.54	1.06
8:H:482:HIS:O	8:H:484:VAL:N	1.89	1.06
6:f:1133:LEU:HD12	6:f:1422:LEU:HD21	1.37	1.06
6:n:1434:LEU:HD23	6:n:1434:LEU:N	1.62	1.06
2:B:242:LYS:NZ	2:B:247:GLY:O	1.86	1.06
1:a:1093:GLU:CB	1:a:1094:ILE:HD12	1.86	1.06
6:f:1539:SER:HB3	6:f:1542:LYS:HD2	1.37	1.06
8:h:1237:LYS:HB3	8:h:1314:ASN:CB	1.85	1.06
8:h:1482:HIS:O	8:h:1484:VAL:N	1.89	1.06
1:i:1009:ARG:CB	1:i:1010:SER:HA	1.84	1.06
6:F:489:VAL:O	6:F:490:GLY:O	1.72	1.06
6:N:83:GLN:HG3	6:N:94:VAL:HG21	1.32	1.06
8:p:1482:HIS:O	8:p:1484:VAL:N	1.89	1.06
1:I:93:GLU:CB	1:I:94:ILE:HD12	1.85	1.06
5:e:1034:ASP:HA	6:n:1117:ILE:HD11	1.06	1.06
2:B:513:ASN:O	2:B:514:ILE:HD13	1.56	1.05
6:N:489:VAL:O	6:N:490:GLY:O	1.72	1.05
6:f:1143:LEU:HD13	6:f:1145:ASN:H	0.93	1.05
1:i:1093:GLU:CB	1:i:1094:ILE:HD12	1.85	1.05
1:A:9:ARG:CB	1:A:10:SER:HA	1.84	1.05
6:N:430:ASN:HA	6:N:433:LYS:HG2	1.05	1.05
6:f:1117:ILE:CD1	5:m:1034:ASP:HA	1.85	1.05
8:h:1243:LYS:O	8:h:1244:LYS:HG2	1.57	1.05
8:p:1237:LYS:HB3	8:p:1314:ASN:HB2	1.39	1.05
7:O:188:SER:O	7:O:190:ASP:HB2	1.54	1.05
8:P:482:HIS:O	8:P:484:VAL:N	1.89	1.05
6:f:1430:ASN:HA	6:f:1433:LYS:HG2	1.05	1.05
6:f:1430:ASN:HA	6:f:1433:LYS:CG	1.86	1.05
6:f:1489:VAL:O	6:f:1490:GLY:O	1.72	1.05
7:g:1188:SER:O	7:g:1190:ASP:HB2	1.54	1.05
1:A:517:VAL:O	1:A:518:LEU:HG	1.56	1.05
3:C:298:GLU:C	3:C:319:ARG:CB	2.30	1.05
6:F:133:LEU:HD12	6:F:422:LEU:HD21	1.37	1.05
2:b:1513:ASN:O	2:b:1514:ILE:HD13	1.56	1.05
1:i:1494:ARG:CB	1:i:1495:ARG:HA	1.87	1.05
1:i:1517:VAL:O	1:i:1518:LEU:HG	1.56	1.05
7:o:1226:TYR:CD1	7:o:1229:PHE:O	2.10	1.05
6:F:430:ASN:HA	6:F:433:LYS:HG2	1.05	1.05
1:I:9:ARG:CB	1:I:10:SER:HA	1.83	1.05
3:K:298:GLU:C	3:K:319:ARG:CB	2.30	1.05
1:a:1494:ARG:CB	1:a:1495:ARG:HA	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1517:VAL:O	1:a:1518:LEU:HG	1.57	1.05
6:f:1430:ASN:O	6:f:1433:LYS:HB2	1.55	1.05
7:g:1226:TYR:CD1	7:g:1229:PHE:O	2.10	1.05
6:n:1005:LEU:HA	6:n:1006:LEU:CB	1.86	1.05
6:F:434:LEU:HD23	6:F:434:LEU:N	1.62	1.04
8:H:243:LYS:O	8:H:244:LYS:HG2	1.57	1.04
1:I:494:ARG:CB	1:I:495:ARG:HA	1.87	1.04
6:n:1430:ASN:HA	6:n:1433:LYS:CG	1.86	1.04
8:p:1237:LYS:HB3	8:p:1314:ASN:CB	1.85	1.04
2:B:72:PRO:CB	3:C:47:MET:HE1	1.85	1.04
6:F:430:ASN:HA	6:F:433:LYS:CG	1.86	1.04
8:P:237:LYS:HB3	8:P:314:ASN:HB2	1.39	1.04
3:c:1298:GLU:C	3:c:1319:ARG:CB	2.30	1.04
2:j:1513:ASN:O	2:j:1514:ILE:HD13	1.56	1.04
3:k:1301:VAL:HG21	3:k:1305:ALA:HB1	1.07	1.04
7:G:226:TYR:CD1	7:G:229:PHE:O	2.10	1.04
1:I:517:VAL:O	1:I:518:LEU:HG	1.56	1.04
2:J:513:ASN:O	2:J:514:ILE:HD13	1.56	1.04
3:K:264:GLU:O	3:K:265:LYS:HG3	1.54	1.04
4:L:520:ARG:O	7:O:49:SER:HB3	1.57	1.04
4:l:1072:HIS:HB2	4:l:1075:ALA:HB3	1.35	1.04
6:n:1430:ASN:HA	6:n:1433:LYS:HG2	1.05	1.04
8:p:1243:LYS:O	8:p:1244:LYS:HG2	1.57	1.04
8:H:237:LYS:HB3	8:H:314:ASN:HB2	1.39	1.04
6:N:430:ASN:HA	6:N:433:LYS:CG	1.86	1.04
2:j:1514:ILE:HD12	3:k:1047:MET:HB3	1.36	1.04
1:I:9:ARG:CB	1:I:10:SER:C	2.31	1.04
5:M:401:THR:O	5:M:402:LYS:HE2	1.58	1.04
7:O:516:LEU:C	7:O:516:LEU:CD2	2.30	1.04
6:f:1352:GLY:O	6:f:1367:VAL:HG13	1.57	1.04
8:h:1237:LYS:HB3	8:h:1314:ASN:HB2	1.39	1.04
6:N:5:LEU:HA	6:N:6:LEU:CB	1.86	1.03
6:N:430:ASN:O	6:N:433:LYS:HB2	1.55	1.03
8:P:243:LYS:O	8:P:244:LYS:HG2	1.57	1.03
6:F:5:LEU:HA	6:F:6:LEU:CB	1.86	1.03
3:K:302:SER:O	3:K:303:ASP:HB2	1.59	1.03
5:M:184:ALA:O	5:M:188:LEU:N	1.91	1.03
1:a:1009:ARG:CB	1:a:1010:SER:C	2.31	1.03
4:d:1524:ILE:CG1	7:g:1052:LEU:HB3	1.89	1.03
6:f:1005:LEU:HA	6:f:1006:LEU:CB	1.86	1.03
1:A:494:ARG:CB	1:A:495:ARG:HA	1.86	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:524:ILE:HA	7:G:52:LEU:O	1.56	1.03
2:j:1263:LYS:NZ	3:k:1266:GLU:HB3	1.72	1.03
3:k:1298:GLU:C	3:k:1319:ARG:CB	2.30	1.03
2:B:361:ALA:N	2:B:362:GLY:CA	2.22	1.03
6:F:430:ASN:O	6:F:433:LYS:HB2	1.55	1.03
4:L:72:HIS:HB2	4:L:75:ALA:HB3	1.35	1.03
6:N:434:LEU:HD23	6:N:434:LEU:N	1.62	1.03
1:i:1009:ARG:CB	1:i:1010:SER:C	2.31	1.03
6:n:1133:LEU:HD12	6:n:1422:LEU:HD21	1.37	1.03
1:A:9:ARG:CB	1:A:10:SER:C	2.31	1.03
2:B:142:ASN:HB2	2:B:143:SER:HA	1.41	1.03
6:F:540:THR:C	6:F:541:LEU:HD22	1.84	1.03
7:O:226:TYR:CD1	7:O:229:PHE:O	2.10	1.03
2:b:1348:LEU:CD2	6:f:1086:ILE:CA	2.35	1.03
7:g:1516:LEU:C	7:g:1516:LEU:CD2	2.30	1.03
5:m:1401:THR:O	5:m:1402:LYS:HE2	1.58	1.03
2:B:72:PRO:HB3	3:C:47:MET:HE1	1.37	1.02
5:E:401:THR:O	5:E:402:LYS:HE2	1.58	1.02
6:n:1143:LEU:HD13	6:n:1145:ASN:H	0.93	1.02
6:N:540:THR:C	6:N:541:LEU:HD22	1.84	1.02
3:c:1301:VAL:HG21	3:c:1305:ALA:HB1	1.07	1.02
5:e:1184:ALA:O	5:e:1188:LEU:N	1.91	1.02
1:i:1228:VAL:HG22	1:i:1363:GLN:NE2	1.75	1.02
3:k:1302:SER:O	3:k:1303:ASP:HB2	1.59	1.02
6:n:1352:GLY:O	6:n:1367:VAL:HG13	1.57	1.02
6:n:1540:THR:C	6:n:1541:LEU:HD22	1.84	1.02
1:a:1228:VAL:HG22	1:a:1363:GLN:NE2	1.75	1.02
2:j:1142:ASN:HB2	2:j:1143:SER:HA	1.41	1.02
5:E:350:GLU:O	5:E:352:GLU:N	1.92	1.02
1:I:228:VAL:HG22	1:I:363:GLN:NE2	1.75	1.02
5:M:350:GLU:O	5:M:352:GLU:N	1.92	1.02
6:N:133:LEU:HD12	6:N:422:LEU:HD21	1.37	1.02
6:F:158:LEU:HD12	6:F:158:LEU:O	1.60	1.02
4:d:1254:VAL:HG22	8:h:1265:VAL:HA	1.39	1.02
5:e:1401:THR:O	5:e:1402:LYS:HE2	1.58	1.02
2:j:1361:ALA:N	2:j:1362:GLY:CA	2.22	1.02
2:J:361:ALA:N	2:J:362:GLY:CA	2.22	1.01
6:N:352:GLY:O	6:N:367:VAL:HG13	1.57	1.01
7:g:1042:PRO:O	7:g:1048:GLY:HA2	1.59	1.01
4:l:1524:ILE:HA	7:o:1052:LEU:O	1.57	1.01
5:m:1350:GLU:O	5:m:1352:GLU:N	1.93	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:VAL:HG22	1:A:363:GLN:NE2	1.75	1.01
5:E:184:ALA:O	5:E:188:LEU:N	1.91	1.01
6:f:1540:THR:C	6:f:1541:LEU:HD22	1.84	1.01
5:m:1184:ALA:O	5:m:1188:LEU:N	1.91	1.01
6:F:352:GLY:O	6:F:367:VAL:HG13	1.57	1.01
7:G:42:PRO:O	7:G:48:GLY:HA2	1.59	1.01
2:b:1021:SER:HG	1:i:1008:SER:N	1.59	1.01
5:e:1350:GLU:O	5:e:1352:GLU:N	1.93	1.01
2:j:1004:GLN:CA	2:j:1005:ILE:HG23	1.91	1.01
6:F:167:THR:HB	6:F:169:VAL:N	1.76	1.00
6:N:158:LEU:HD12	6:N:158:LEU:O	1.60	1.00
6:N:167:THR:HB	6:N:169:VAL:N	1.76	1.00
3:c:1301:VAL:CG2	3:c:1305:ALA:HB2	1.91	1.00
2:b:1348:LEU:HD23	6:f:1086:ILE:CA	1.91	1.00
6:n:1158:LEU:HD12	6:n:1158:LEU:O	1.60	1.00
1:A:494:ARG:CB	1:A:495:ARG:C	2.35	1.00
3:C:234:MET:HB3	3:C:310:LEU:HD22	1.44	1.00
2:J:4:GLN:CA	2:J:5:ILE:HG23	1.91	1.00
4:d:1134:ILE:HD11	4:d:1424:ARG:HD3	1.41	1.00
4:l:1134:ILE:HD11	4:l:1424:ARG:HD3	1.41	1.00
4:L:134:ILE:HD11	4:L:424:ARG:HD3	1.41	1.00
2:b:1361:ALA:N	2:b:1362:GLY:CA	2.22	1.00
6:f:1540:THR:O	6:f:1542:LYS:HG2	1.62	1.00
6:n:1143:LEU:HD13	6:n:1145:ASN:N	1.76	1.00
7:o:1042:PRO:O	7:o:1048:GLY:HA2	1.59	1.00
2:b:1008:ASP:HB3	2:b:1009:GLN:HA	1.43	1.00
2:j:1008:ASP:HB3	2:j:1009:GLN:HA	1.44	1.00
4:d:1524:ILE:HG12	7:g:1052:LEU:HB3	1.03	1.00
6:n:1434:LEU:O	6:n:1438:GLY:N	1.95	1.00
6:N:143:LEU:HD13	6:N:145:ASN:N	1.76	1.00
7:O:42:PRO:O	7:O:48:GLY:HA2	1.59	0.99
6:f:1167:THR:HB	6:f:1169:VAL:N	1.76	0.99
1:I:494:ARG:CB	1:I:495:ARG:C	2.35	0.99
6:n:1540:THR:O	6:n:1542:LYS:HG2	1.62	0.99
6:F:434:LEU:HA	6:F:441:LYS:CB	1.93	0.99
2:b:1142:ASN:HB2	2:b:1143:SER:HA	1.41	0.99
6:f:1158:LEU:HD12	6:f:1158:LEU:O	1.60	0.99
6:n:1434:LEU:HA	6:n:1441:LYS:CB	1.93	0.99
2:B:4:GLN:CA	2:B:5:ILE:HG23	1.91	0.99
1:i:1494:ARG:CB	1:i:1495:ARG:C	2.35	0.99
3:k:1234:MET:HB3	3:k:1310:LEU:HD22	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:143:LEU:HD13	6:F:145:ASN:N	1.75	0.99
1:a:1494:ARG:CB	1:a:1495:ARG:C	2.34	0.99
6:f:1016:ASP:HA	6:f:1019:LEU:HD12	1.44	0.99
6:F:434:LEU:O	6:F:438:GLY:N	1.95	0.99
6:F:465:ASP:HA	6:F:466:PRO:C	1.88	0.99
6:N:434:LEU:HA	6:N:441:LYS:CB	1.92	0.99
6:F:540:THR:O	6:F:542:LYS:HG2	1.62	0.99
6:N:434:LEU:O	6:N:438:GLY:N	1.95	0.99
7:O:516:LEU:HD13	7:O:517:ILE:HG12	1.44	0.99
6:n:1167:THR:HB	6:n:1169:VAL:N	1.76	0.99
3:C:302:SER:O	3:C:303:ASP:HB2	1.59	0.99
6:N:465:ASP:HA	6:N:466:PRO:C	1.88	0.99
6:f:1036:ASN:CB	6:f:1057:LYS:NZ	2.24	0.99
4:l:1070:ILE:O	4:l:1070:ILE:HG12	1.63	0.99
2:J:142:ASN:HB2	2:J:143:SER:HA	1.41	0.99
7:g:1516:LEU:HD13	7:g:1517:ILE:HG12	1.44	0.99
2:B:490:SER:O	2:B:493:LEU:HG	1.63	0.99
6:F:16:ASP:HA	6:F:19:LEU:HD12	1.44	0.99
2:b:1004:GLN:CA	2:b:1005:ILE:HG23	1.91	0.99
6:f:1465:ASP:HA	6:f:1466:PRO:C	1.88	0.99
7:G:516:LEU:HD13	7:G:517:ILE:HG12	1.44	0.98
2:J:490:SER:O	2:J:493:LEU:HG	1.63	0.98
4:d:1521:ILE:HD11	7:g:1062:ILE:HD11	1.44	0.98
6:f:1143:LEU:HD13	6:f:1145:ASN:N	1.76	0.98
8:h:1124:ALA:O	8:h:1128:ILE:HG13	1.63	0.98
7:o:1094:VAL:CG2	7:o:1502:VAL:HG22	1.93	0.98
8:p:1124:ALA:O	8:p:1128:ILE:HG13	1.63	0.98
6:n:1043:LEU:HD23	6:n:1057:LYS:HB2	1.44	0.98
4:D:70:ILE:O	4:D:70:ILE:HG12	1.63	0.98
3:K:265:LYS:NZ	3:K:268:ASP:HB3	1.79	0.98
6:f:1541:LEU:CB	6:f:1542:LYS:CA	2.22	0.98
7:G:516:LEU:C	7:G:516:LEU:CD2	2.30	0.98
8:H:423:ALA:HA	9:H:601:ADP:H2'	1.45	0.98
4:d:1250:ASN:HA	7:g:1259:VAL:HG12	1.43	0.98
6:N:540:THR:O	6:N:542:LYS:HG2	1.62	0.98
8:H:124:ALA:O	8:H:128:ILE:HG13	1.63	0.98
6:n:1465:ASP:HA	6:n:1466:PRO:C	1.88	0.98
4:D:134:ILE:HD11	4:D:424:ARG:HD3	1.41	0.98
3:c:1302:SER:O	3:c:1303:ASP:HB2	1.59	0.98
4:d:1070:ILE:O	4:d:1070:ILE:HG12	1.63	0.98
6:f:1434:LEU:HA	6:f:1441:LYS:CB	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1523:ASP:O	7:o:1051:ILE:HG23	1.64	0.98
2:J:8:ASP:HB3	2:J:9:GLN:HA	1.43	0.98
5:m:1088:ALA:HB2	5:m:1119:THR:HB	1.46	0.98
7:o:1516:LEU:C	7:o:1516:LEU:CD2	2.30	0.98
7:g:1094:VAL:CG2	7:g:1502:VAL:HG22	1.93	0.98
7:g:1516:LEU:CD1	7:g:1517:ILE:HG12	1.94	0.98
2:B:8:ASP:HB3	2:B:9:GLN:HA	1.43	0.97
2:J:260:GLN:HA	2:J:263:LYS:HD2	1.46	0.97
6:N:53:ILE:HD12	6:N:53:ILE:C	1.89	0.97
3:c:1265:LYS:NZ	3:c:1268:ASP:HB3	1.79	0.97
6:f:1053:ILE:HD12	6:f:1053:ILE:C	1.89	0.97
2:j:1202:LYS:O	2:j:1370:ARG:HA	1.64	0.97
3:k:1265:LYS:NZ	3:k:1268:ASP:HB3	1.79	0.97
3:k:1301:VAL:CG2	3:k:1305:ALA:HB2	1.91	0.97
6:n:1036:ASN:CB	6:n:1057:LYS:NZ	2.24	0.97
3:C:265:LYS:NZ	3:C:268:ASP:HB3	1.79	0.97
4:L:524:ILE:CA	7:O:52:LEU:O	2.12	0.97
7:O:516:LEU:CD1	7:O:517:ILE:HG12	1.94	0.97
2:b:1202:LYS:O	2:b:1370:ARG:HA	1.64	0.97
2:b:1260:GLN:HA	2:b:1263:LYS:HD2	1.46	0.97
2:b:1490:SER:O	2:b:1493:LEU:HG	1.63	0.97
6:f:1434:LEU:O	6:f:1438:GLY:N	1.95	0.97
6:N:3:LEU:HD12	6:N:5:LEU:HD23	1.46	0.97
4:L:70:ILE:O	4:L:70:ILE:HG12	1.63	0.97
2:j:1490:SER:O	2:j:1493:LEU:HG	1.63	0.97
6:n:1016:ASP:HA	6:n:1019:LEU:HD12	1.44	0.97
2:B:260:GLN:HA	2:B:263:LYS:HD2	1.46	0.97
7:G:94:VAL:CG2	7:G:502:VAL:HG22	1.93	0.97
6:f:1434:LEU:CA	6:f:1441:LYS:CB	2.43	0.97
2:j:1260:GLN:HA	2:j:1263:LYS:HD2	1.46	0.97
4:l:1250:ASN:HA	7:o:1259:VAL:HG12	1.46	0.97
6:F:43:LEU:HD23	6:F:57:LYS:HB2	1.44	0.97
6:N:16:ASP:HA	6:N:19:LEU:HD12	1.44	0.97
6:F:117:ILE:HD11	5:M:34:ASP:CA	1.93	0.97
6:F:434:LEU:CA	6:F:441:LYS:CB	2.43	0.97
3:K:234:MET:HB3	3:K:310:LEU:HD22	1.44	0.97
3:c:1298:GLU:O	3:c:1319:ARG:CB	2.13	0.97
3:K:298:GLU:O	3:K:319:ARG:CB	2.13	0.97
3:k:1298:GLU:O	3:k:1319:ARG:CB	2.13	0.97
6:n:1053:ILE:HD12	6:n:1053:ILE:C	1.89	0.96
6:n:1434:LEU:CA	6:n:1441:LYS:CB	2.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:LEU:CD2	1:A:198:TYR:CD2	2.49	0.96
2:J:202:LYS:O	2:J:370:ARG:HA	1.64	0.96
2:j:1004:GLN:CA	2:j:1005:ILE:CG1	2.30	0.96
2:B:202:LYS:O	2:B:370:ARG:HA	1.64	0.96
2:J:4:GLN:CA	2:J:5:ILE:CG1	2.30	0.96
5:M:88:ALA:HB2	5:M:119:THR:HB	1.46	0.96
7:O:94:VAL:CG2	7:O:502:VAL:HG22	1.93	0.96
3:c:1234:MET:HB3	3:c:1310:LEU:HD22	1.44	0.96
5:E:88:ALA:HB2	5:E:119:THR:HB	1.46	0.96
6:F:53:ILE:HD12	6:F:53:ILE:C	1.89	0.96
6:N:434:LEU:CA	6:N:441:LYS:CB	2.43	0.96
4:D:254:VAL:HG22	8:H:265:VAL:HA	1.47	0.96
7:G:43:THR:HG22	7:G:64:ASN:HB3	1.45	0.96
5:M:66:GLY:H	9:M:601:ADP:H5'1	1.30	0.96
6:n:1003:LEU:HD12	6:n:1005:LEU:HD23	1.46	0.96
6:n:1154:ALA:CB	6:n:1402:VAL:HG23	1.96	0.96
2:J:514:ILE:HD12	3:K:47:MET:HB3	1.48	0.96
3:K:269:TRP:HH2	6:N:248:ASN:H	0.97	0.96
6:N:154:ALA:CB	6:N:402:VAL:HG23	1.96	0.96
4:d:1521:ILE:CD1	7:g:1062:ILE:HD11	1.95	0.96
6:f:1043:LEU:HD23	6:f:1057:LYS:HB2	1.44	0.96
7:o:1516:LEU:HD13	7:o:1517:ILE:HG12	1.44	0.96
6:F:154:ALA:CB	6:F:402:VAL:HG23	1.96	0.96
7:G:516:LEU:CD1	7:G:517:ILE:HG12	1.94	0.96
5:e:1088:ALA:HB2	5:e:1119:THR:HB	1.46	0.96
7:o:1043:THR:HG22	7:o:1064:ASN:HB3	1.45	0.96
6:F:117:ILE:CD1	5:M:34:ASP:CA	2.43	0.95
6:F:117:ILE:HD11	5:M:34:ASP:HA	0.97	0.95
7:O:90:GLN:HG3	7:O:101:VAL:HG21	1.48	0.95
8:P:124:ALA:O	8:P:128:ILE:HG13	1.63	0.95
1:a:1184:LEU:CD2	1:a:1198:TYR:CD2	2.49	0.95
6:F:3:LEU:HD12	6:F:5:LEU:HD23	1.46	0.95
6:f:1154:ALA:CB	6:f:1402:VAL:HG23	1.96	0.95
3:k:1264:GLU:C	3:k:1265:LYS:HG3	1.91	0.95
6:F:43:LEU:CD2	6:F:57:LYS:HB2	1.96	0.95
1:i:1494:ARG:CB	1:i:1496:SER:N	2.30	0.95
3:C:264:GLU:C	3:C:265:LYS:HG3	1.91	0.95
6:N:36:ASN:CB	6:N:57:LYS:NZ	2.24	0.95
3:c:1250:LEU:CD1	3:c:1301:VAL:HG21	1.97	0.95
6:f:1003:LEU:HD12	6:f:1005:LEU:HD23	1.46	0.95
6:n:1043:LEU:CD2	6:n:1057:LYS:HB2	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:184:LEU:CD2	1:I:198:TYR:CD2	2.49	0.95
6:f:1043:LEU:CD2	6:f:1057:LYS:HB2	1.96	0.95
1:i:1012:THR:HG21	5:m:1097:ASP:H	1.31	0.95
4:D:521:ILE:CA	7:G:50:ASP:O	2.14	0.95
7:O:235:LYS:CA	7:O:352:PHE:O	2.15	0.95
1:a:1494:ARG:CB	1:a:1496:SER:N	2.30	0.95
6:n:1420:ILE:CG2	6:n:1482:ASP:OD1	2.15	0.95
7:o:1235:LYS:CA	7:o:1352:PHE:O	2.15	0.95
6:f:1420:ILE:CG2	6:f:1482:ASP:OD1	2.15	0.95
7:g:1043:THR:HG22	7:g:1064:ASN:HB3	1.45	0.95
4:l:1521:ILE:CA	7:o:1050:ASP:O	2.13	0.95
7:o:1090:GLN:HG3	7:o:1101:VAL:HG21	1.48	0.95
7:O:43:THR:HG22	7:O:64:ASN:HB3	1.45	0.94
7:o:1516:LEU:CD1	7:o:1517:ILE:HG12	1.94	0.94
6:N:541:LEU:CB	6:N:542:LYS:CA	2.22	0.94
1:i:1184:LEU:CD2	1:i:1198:TYR:CD2	2.49	0.94
5:m:1107:LEU:HD22	5:m:1544:LEU:HG	1.49	0.94
2:J:263:LYS:NZ	3:K:266:GLU:HB3	1.81	0.94
6:f:1434:LEU:CD2	6:f:1434:LEU:N	2.30	0.94
6:f:1434:LEU:CD2	6:f:1434:LEU:H	1.80	0.94
3:C:335:THR:HB	8:H:237:LYS:HE2	1.48	0.94
5:E:253:GLN:CB	5:E:254:MET:CB	2.46	0.94
8:H:316:TYR:H	8:H:316:TYR:HD2	1.15	0.94
5:M:253:GLN:CB	5:M:254:MET:CB	2.46	0.94
8:h:1237:LYS:CB	8:h:1314:ASN:HB3	1.98	0.94
3:k:1042:LYS:CB	3:k:1460:ALA:HA	1.98	0.94
8:P:316:TYR:H	8:P:316:TYR:HD2	1.15	0.94
2:b:1348:LEU:HD23	6:f:1086:ILE:HA	0.96	0.94
7:o:1191:ARG:NE	7:o:1192:ASN:H	1.66	0.94
8:p:1237:LYS:CB	8:p:1314:ASN:HB3	1.98	0.94
5:M:107:LEU:HD22	5:M:544:LEU:HG	1.49	0.94
5:e:1107:LEU:HD22	5:e:1544:LEU:HG	1.49	0.94
6:f:1193:MET:HE3	6:f:1330:LEU:HD11	1.49	0.94
3:k:1250:LEU:CD1	3:k:1301:VAL:HG21	1.97	0.94
1:A:494:ARG:CB	1:A:496:SER:N	2.30	0.94
3:C:298:GLU:O	3:C:319:ARG:CB	2.13	0.94
4:D:523:ASP:O	7:G:51:ILE:HG23	1.67	0.94
6:f:1424:ARG:HA	6:f:1424:ARG:HE	1.33	0.94
6:f:1439:LYS:NZ	5:m:1034:ASP:CB	2.31	0.94
6:n:1452:LEU:C	6:n:1455:PRO:HD2	1.93	0.94
6:F:193:MET:HE3	6:F:330:LEU:HD11	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:70:ASP:HB2	6:N:5:LEU:HD22	1.49	0.94
7:g:1235:LYS:CA	7:g:1352:PHE:O	2.15	0.94
4:l:1254:VAL:HG22	8:p:1265:VAL:HA	1.50	0.94
6:F:420:ILE:CG2	6:F:482:ASP:OD1	2.15	0.94
1:I:494:ARG:CB	1:I:496:SER:N	2.30	0.94
6:n:1193:MET:HE3	6:n:1330:LEU:HD11	1.49	0.94
7:G:235:LYS:CA	7:G:352:PHE:O	2.15	0.93
8:H:237:LYS:CB	8:H:314:ASN:HB3	1.98	0.93
7:O:191:ARG:NE	7:O:192:ASN:H	1.65	0.93
1:a:1228:VAL:CG2	1:a:1363:GLN:HE22	1.82	0.93
3:c:1042:LYS:CB	3:c:1460:ALA:HA	1.98	0.93
3:c:1057:LEU:N	3:c:1057:LEU:HD23	1.83	0.93
4:d:1521:ILE:HD11	7:g:1062:ILE:CD1	1.97	0.93
7:g:1090:GLN:HG3	7:g:1101:VAL:HG21	1.48	0.93
5:m:1253:GLN:CB	5:m:1254:MET:CB	2.46	0.93
6:f:1409:LYS:HD3	6:f:1409:LYS:H	1.34	0.93
6:F:452:LEU:C	6:F:455:PRO:HD2	1.93	0.93
6:N:420:ILE:CG2	6:N:482:ASP:OD1	2.15	0.93
2:b:1070:ASP:HB2	6:f:1005:LEU:HD22	1.48	0.93
4:l:1254:VAL:HG11	4:l:1260:MET:SD	2.09	0.93
2:B:4:GLN:CA	2:B:5:ILE:CG1	2.30	0.93
7:G:516:LEU:HD22	7:G:517:ILE:N	1.83	0.93
2:J:251:LYS:H	6:N:251:PHE:HA	1.32	0.93
3:K:264:GLU:C	3:K:265:LYS:HG3	1.91	0.93
6:N:434:LEU:CD2	6:N:434:LEU:N	2.30	0.93
5:e:1253:GLN:CB	5:e:1254:MET:CB	2.46	0.93
7:g:1191:ARG:NE	7:g:1192:ASN:H	1.66	0.93
7:o:1513:ALA:O	7:o:1516:LEU:HD13	1.68	0.93
2:J:127:ALA:HB2	2:J:430:VAL:HG22	1.51	0.93
3:K:57:LEU:HD23	3:K:57:LEU:N	1.83	0.93
7:O:513:ALA:O	7:O:516:LEU:HD13	1.68	0.93
8:P:237:LYS:CB	8:P:314:ASN:HB3	1.98	0.93
2:j:1442:THR:HG23	2:j:1452:SER:HB2	1.50	0.93
6:n:1409:LYS:HD3	6:n:1409:LYS:H	1.34	0.93
2:B:459:LEU:HD22	2:B:472:LEU:HG	1.51	0.93
3:C:42:LYS:CB	3:C:460:ALA:HA	1.98	0.93
4:D:524:ILE:HG12	7:G:52:LEU:HB3	0.94	0.93
3:K:42:LYS:CB	3:K:460:ALA:HA	1.98	0.93
1:A:433:LEU:O	1:A:437:ALA:N	2.01	0.93
6:F:424:ARG:HA	6:F:424:ARG:HE	1.33	0.93
6:F:434:LEU:CD2	6:F:434:LEU:N	2.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1071:LEU:CB	8:p:1006:PRO:CB	2.46	0.93
6:f:1195:GLU:HB3	6:f:1377:THR:HG22	1.51	0.93
6:n:1434:LEU:CD2	6:n:1434:LEU:N	2.30	0.93
8:p:1316:TYR:H	8:p:1316:TYR:HD2	1.15	0.93
8:p:1463:LEU:O	8:p:1466:THR:OG1	1.87	0.93
7:G:471:ALA:O	7:G:475:GLY:CA	2.17	0.93
7:G:513:ALA:O	7:G:516:LEU:HD13	1.68	0.93
4:d:1520:ARG:O	7:g:1049:SER:HB3	1.67	0.93
5:e:1032:VAL:HG22	5:e:1033:LYS:H	1.34	0.93
7:g:1513:ALA:O	7:g:1516:LEU:HD13	1.68	0.93
6:F:195:GLU:HB3	6:F:377:THR:HG22	1.51	0.93
2:b:1004:GLN:CA	2:b:1005:ILE:CG1	2.30	0.93
7:o:1471:ALA:O	7:o:1475:GLY:CA	2.17	0.93
6:F:409:LYS:H	6:F:409:LYS:HD3	1.34	0.93
2:J:459:LEU:HD22	2:J:472:LEU:HG	1.51	0.93
7:g:1471:ALA:O	7:g:1475:GLY:N	2.02	0.93
1:i:1228:VAL:CG2	1:i:1363:GLN:HE22	1.81	0.93
6:F:224:MET:HE1	6:F:316:ALA:H	1.34	0.92
7:G:191:ARG:NE	7:G:192:ASN:H	1.65	0.92
6:N:452:LEU:C	6:N:455:PRO:HD2	1.93	0.92
3:C:57:LEU:HD23	3:C:57:LEU:N	1.83	0.92
1:I:350:PHE:HE2	1:I:354:TYR:HB2	1.34	0.92
1:I:433:LEU:O	1:I:437:ALA:N	2.01	0.92
4:L:523:ASP:O	7:O:51:ILE:HG23	1.69	0.92
7:g:1471:ALA:O	7:g:1475:GLY:CA	2.17	0.92
7:o:1471:ALA:O	7:o:1475:GLY:N	2.02	0.92
2:B:442:THR:HG23	2:B:452:SER:HB2	1.50	0.92
4:L:210:ILE:HB	4:L:376:SER:O	1.69	0.92
6:N:409:LYS:H	6:N:409:LYS:HD3	1.34	0.92
6:N:424:ARG:HE	6:N:424:ARG:HA	1.33	0.92
7:O:471:ALA:O	7:O:475:GLY:N	2.02	0.92
3:c:1264:GLU:C	3:c:1265:LYS:HG3	1.91	0.92
8:h:1463:LEU:O	8:h:1466:THR:OG1	1.87	0.92
6:F:434:LEU:CD2	6:F:434:LEU:H	1.80	0.92
1:a:1433:LEU:O	1:a:1437:ALA:N	2.01	0.92
6:f:1452:LEU:C	6:f:1455:PRO:HD2	1.93	0.92
2:j:1459:LEU:HD22	2:j:1472:LEU:HG	1.51	0.92
7:G:188:SER:C	7:G:190:ASP:HB2	1.95	0.92
1:a:1250:ASN:CB	1:a:1300:LYS:CB	2.47	0.92
7:o:1516:LEU:HD22	7:o:1517:ILE:N	1.83	0.92
2:J:442:THR:HG23	2:J:452:SER:HB2	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:516:LEU:HD22	7:O:517:ILE:N	1.83	0.92
6:F:541:LEU:CB	6:F:542:LYS:CA	2.22	0.92
6:N:193:MET:HE3	6:N:330:LEU:HD11	1.49	0.92
4:d:1254:VAL:HG11	4:d:1260:MET:SD	2.09	0.92
7:g:1516:LEU:HD22	7:g:1517:ILE:N	1.83	0.92
4:l:1210:ILE:HB	4:l:1376:SER:O	1.70	0.92
6:n:1541:LEU:CB	6:n:1542:LYS:CA	2.22	0.92
4:D:254:VAL:HG11	4:D:260:MET:SD	2.09	0.92
5:E:107:LEU:HD22	5:E:544:LEU:HG	1.49	0.92
4:L:254:VAL:HG11	4:L:260:MET:SD	2.09	0.92
7:G:90:GLN:HG3	7:G:101:VAL:HG21	1.48	0.92
8:H:209:VAL:HG22	8:H:386:LEU:HD11	1.52	0.92
6:N:195:GLU:HB3	6:N:377:THR:HG22	1.51	0.92
7:O:188:SER:C	7:O:190:ASP:HB2	1.95	0.92
2:b:1459:LEU:HD22	2:b:1472:LEU:HG	1.51	0.92
7:g:1188:SER:C	7:g:1190:ASP:HB2	1.95	0.92
7:g:1191:ARG:HA	7:g:1191:ARG:NE	1.85	0.92
3:k:1057:LEU:N	3:k:1057:LEU:HD23	1.83	0.92
6:n:1224:MET:HE1	6:n:1316:ALA:H	1.34	0.92
7:O:471:ALA:O	7:O:475:GLY:CA	2.17	0.92
2:b:1442:THR:HG23	2:b:1452:SER:HB2	1.50	0.92
1:A:228:VAL:CG2	1:A:363:GLN:HE22	1.82	0.91
1:A:250:ASN:CB	1:A:300:LYS:CB	2.47	0.91
1:i:1433:LEU:O	1:i:1437:ALA:N	2.01	0.91
2:B:21:SER:HG	1:I:8:SER:N	1.67	0.91
2:B:127:ALA:HB2	2:B:430:VAL:HG22	1.51	0.91
1:I:228:VAL:CG2	1:I:363:GLN:HE22	1.82	0.91
6:f:1209:PHE:HE2	6:f:1376:CYS:HG	0.94	0.91
5:E:166:ASP:N	5:E:167:ASP:HB2	1.86	0.91
4:l:1524:ILE:HG12	7:o:1052:LEU:HB3	0.94	0.91
4:D:210:ILE:HB	4:D:376:SER:O	1.69	0.91
1:a:1350:PHE:HE2	1:a:1354:TYR:HB2	1.34	0.91
2:b:1029:VAL:O	2:b:1033:VAL:CG2	2.19	0.91
6:N:36:ASN:HB3	6:N:57:LYS:HZ1	1.29	0.91
6:N:151:LEU:HD13	6:N:175:THR:HG23	0.91	0.91
7:G:471:ALA:O	7:G:475:GLY:N	2.02	0.91
1:I:250:ASN:CB	1:I:300:LYS:CB	2.47	0.91
2:J:3:VAL:O	2:J:5:ILE:HG21	1.71	0.91
5:e:1166:ASP:N	5:e:1167:ASP:HB2	1.86	0.91
5:m:1166:ASP:N	5:m:1167:ASP:HB2	1.86	0.91
7:o:1188:SER:C	7:o:1190:ASP:HB2	1.95	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:ILE:HD12	2:B:104:ARG:HH11	1.36	0.91
2:B:29:VAL:O	2:B:33:VAL:CG2	2.19	0.91
2:J:27:ILE:HD12	2:J:104:ARG:HH11	1.36	0.91
4:L:521:ILE:CA	7:O:50:ASP:O	2.18	0.91
2:b:1127:ALA:HB2	2:b:1430:VAL:HG22	1.51	0.91
3:c:1269:TRP:HH2	6:f:1248:ASN:H	1.15	0.91
2:j:1070:ASP:HB2	6:n:1005:LEU:HD22	1.51	0.91
2:j:1127:ALA:HB2	2:j:1430:VAL:HG22	1.51	0.91
6:n:1424:ARG:HA	6:n:1424:ARG:HE	1.33	0.91
8:H:113:VAL:HG12	8:H:451:GLN:HG3	1.53	0.91
2:j:1003:VAL:O	2:j:1005:ILE:HG21	1.71	0.91
3:k:1250:LEU:CG	3:k:1301:VAL:CG2	2.48	0.91
6:n:1354:VAL:HG13	6:n:1367:VAL:HG22	1.53	0.91
6:F:159:LEU:HA	6:F:164:ALA:CB	2.01	0.90
6:N:434:LEU:N	6:N:441:LYS:CB	2.34	0.90
4:d:1185:ASN:N	4:d:1186:SER:C	2.30	0.90
4:d:1210:ILE:HB	4:d:1376:SER:O	1.69	0.90
1:i:1250:ASN:CB	1:i:1300:LYS:CB	2.47	0.90
2:J:422:ILE:CG2	2:J:427:SER:HB3	2.02	0.90
6:n:1159:LEU:HA	6:n:1164:ALA:CB	2.01	0.90
2:B:3:VAL:O	2:B:5:ILE:HG21	1.71	0.90
5:E:401:THR:C	5:E:402:LYS:HG3	1.96	0.90
7:G:191:ARG:HA	7:G:191:ARG:NE	1.85	0.90
4:L:185:ASN:N	4:L:186:SER:C	2.30	0.90
6:N:224:MET:HE1	6:N:316:ALA:H	1.34	0.90
8:P:237:LYS:CB	8:P:314:ASN:CB	2.49	0.90
2:b:1003:VAL:O	2:b:1005:ILE:HG21	1.71	0.90
8:h:1316:TYR:H	8:h:1316:TYR:HD2	1.15	0.90
1:i:1543:THR:HB	5:m:1072:LYS:HD3	1.54	0.90
2:j:1003:VAL:O	2:j:1005:ILE:HD13	1.72	0.90
4:l:1185:ASN:N	4:l:1186:SER:C	2.29	0.90
6:F:209:PHE:HE2	6:F:376:CYS:HG	0.92	0.90
8:H:463:LEU:O	8:H:466:THR:OG1	1.87	0.90
6:N:354:VAL:HG13	6:N:367:VAL:HG22	1.53	0.90
7:O:316:GLY:O	7:O:317:ARG:HB3	1.71	0.90
3:c:1250:LEU:CG	3:c:1301:VAL:CG2	2.48	0.90
6:f:1151:LEU:HD13	6:f:1175:THR:HG23	0.91	0.90
2:j:1029:VAL:O	2:j:1033:VAL:CG2	2.19	0.90
1:A:350:PHE:HE2	1:A:354:TYR:HB2	1.34	0.90
6:N:159:LEU:HA	6:N:164:ALA:CB	2.01	0.90
3:k:1265:LYS:HZ3	3:k:1268:ASP:HB3	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3:VAL:O	2:B:5:ILE:HD13	1.72	0.90
6:F:434:LEU:N	6:F:441:LYS:CB	2.34	0.90
4:d:1071:LEU:CB	8:p:1006:PRO:HB3	2.02	0.90
4:D:185:ASN:N	4:D:186:SER:C	2.30	0.90
8:P:463:LEU:O	8:P:466:THR:OG1	1.87	0.90
8:h:1388:GLY:HA3	8:h:1394:LEU:HD21	1.53	0.90
6:n:1083:GLN:CG	6:n:1094:VAL:HG21	2.02	0.90
8:h:1209:VAL:HG22	8:h:1386:LEU:HD11	1.52	0.90
5:m:1032:VAL:HG22	5:m:1033:LYS:H	1.34	0.90
7:o:1191:ARG:HA	7:o:1191:ARG:NE	1.85	0.90
3:C:265:LYS:HZ3	3:C:268:ASP:HB3	1.35	0.89
6:f:1083:GLN:CG	6:f:1094:VAL:HG21	2.02	0.89
6:f:1224:MET:HE1	6:f:1316:ALA:H	1.34	0.89
2:j:1027:ILE:HD12	2:j:1104:ARG:HH11	1.36	0.89
6:F:109:ILE:HG13	5:M:39:LYS:HZ3	1.35	0.89
6:F:354:VAL:HG13	6:F:367:VAL:HG22	1.53	0.89
2:J:70:ASP:CB	6:N:5:LEU:HD22	2.02	0.89
5:M:32:VAL:HG22	5:M:33:LYS:H	1.34	0.89
5:M:166:ASP:N	5:M:167:ASP:HB2	1.85	0.89
7:O:191:ARG:HA	7:O:191:ARG:NE	1.85	0.89
8:P:209:VAL:HG22	8:P:386:LEU:HD11	1.52	0.89
8:h:1237:LYS:CB	8:h:1314:ASN:CB	2.49	0.89
1:i:1156:LEU:HD13	1:i:1185:LEU:HD11	1.54	0.89
6:n:1209:PHE:HE2	6:n:1376:CYS:HG	0.95	0.89
8:p:1209:VAL:HG22	8:p:1386:LEU:HD11	1.52	0.89
2:B:422:ILE:CG2	2:B:427:SER:HB3	2.02	0.89
3:K:41:PRO:HA	3:K:161:THR:CG2	2.02	0.89
2:b:1422:ILE:CG2	2:b:1427:SER:HB3	2.02	0.89
2:j:1263:LYS:NZ	3:k:1266:GLU:CB	2.34	0.89
6:n:1195:GLU:HB3	6:n:1377:THR:HG22	1.51	0.89
6:n:1430:ASN:CA	6:n:1433:LYS:HG2	2.00	0.89
6:n:1434:LEU:N	6:n:1441:LYS:CB	2.34	0.89
2:B:4:GLN:HA	2:B:5:ILE:HG12	0.90	0.89
6:F:151:LEU:HD13	6:F:175:THR:HG23	0.91	0.89
2:J:29:VAL:O	2:J:33:VAL:CG2	2.19	0.89
6:f:1159:LEU:HA	6:f:1164:ALA:CB	2.01	0.89
2:j:1242:LYS:HB2	3:k:1269:TRP:HZ2	1.35	0.89
1:A:156:LEU:HD13	1:A:185:LEU:HD11	1.54	0.89
7:G:316:GLY:O	7:G:317:ARG:HB3	1.71	0.89
2:b:1329:PHE:C	2:b:1329:PHE:CD2	2.51	0.89
3:c:1041:PRO:HA	3:c:1161:THR:CG2	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1401:THR:C	5:m:1402:LYS:HG3	1.97	0.89
6:n:1151:LEU:HD13	6:n:1175:THR:HG23	0.91	0.89
1:a:1090:GLN:CG	1:a:1101:VAL:HG21	2.03	0.89
6:f:1434:LEU:N	6:f:1441:LYS:CB	2.34	0.89
2:j:1004:GLN:HA	2:j:1005:ILE:HG12	0.90	0.89
8:H:6:PRO:CB	4:L:71:LEU:CB	2.51	0.89
3:c:1265:LYS:HZ3	3:c:1268:ASP:HB3	1.34	0.89
7:o:1189:LEU:CA	7:o:1190:ASP:HB2	1.94	0.89
3:C:41:PRO:HA	3:C:161:THR:CG2	2.02	0.89
4:L:521:ILE:CG1	7:O:62:ILE:HD11	2.01	0.89
8:p:1113:VAL:HG12	8:p:1451:GLN:HG3	1.54	0.89
2:B:242:LYS:CE	2:B:247:GLY:H	1.86	0.89
4:D:330:CYS:CB	4:D:345:ASP:CG	2.45	0.89
2:b:1348:LEU:HD11	6:f:1085:GLU:O	1.69	0.89
5:e:1401:THR:C	5:e:1402:LYS:HG3	1.97	0.89
8:h:1113:VAL:HG12	8:h:1451:GLN:HG3	1.54	0.89
8:p:1237:LYS:CB	8:p:1314:ASN:CB	2.49	0.89
6:N:83:GLN:CG	6:N:94:VAL:HG21	2.02	0.89
1:a:1156:LEU:HD13	1:a:1185:LEU:HD11	1.54	0.89
2:b:1003:VAL:O	2:b:1005:ILE:HD13	1.72	0.89
2:j:1422:ILE:CG2	2:j:1427:SER:HB3	2.02	0.89
7:g:1316:GLY:O	7:g:1317:ARG:HB3	1.71	0.88
2:B:329:PHE:C	2:B:329:PHE:CD2	2.51	0.88
5:M:401:THR:C	5:M:402:LYS:HG3	1.97	0.88
8:P:113:VAL:HG12	8:P:451:GLN:HG3	1.54	0.88
3:k:1041:PRO:HA	3:k:1161:THR:CG2	2.02	0.88
8:p:1388:GLY:HA3	8:p:1394:LEU:HD21	1.54	0.88
1:I:90:GLN:CG	1:I:101:VAL:HG21	2.03	0.88
2:J:3:VAL:O	2:J:5:ILE:HD13	1.72	0.88
6:N:430:ASN:CA	6:N:433:LYS:HG2	2.00	0.88
2:b:1027:ILE:HD12	2:b:1104:ARG:HH11	1.36	0.88
1:i:1350:PHE:HE2	1:i:1354:TYR:HB2	1.34	0.88
5:E:174:GLU:O	5:E:175:LEU:HG	1.74	0.88
2:J:242:LYS:CE	2:J:247:GLY:H	1.86	0.88
6:N:143:LEU:CD1	6:N:145:ASN:H	1.85	0.88
8:P:6:PRO:HB2	8:P:7:GLN:HG3	1.55	0.88
2:b:1004:GLN:HA	2:b:1005:ILE:HG12	0.89	0.88
2:j:1070:ASP:CB	6:n:1005:LEU:HD22	2.04	0.88
8:H:388:GLY:HA3	8:H:394:LEU:HD21	1.53	0.88
1:I:350:PHE:CE2	1:I:354:TYR:HB2	2.09	0.88
2:J:4:GLN:HA	2:J:5:ILE:HG12	0.89	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1173:ASP:HB3	5:m:1437:SER:CB	2.04	0.88
5:m:1174:GLU:O	5:m:1175:LEU:HG	1.74	0.88
6:F:83:GLN:CG	6:F:94:VAL:HG21	2.02	0.88
5:M:173:ASP:HB3	5:M:437:SER:CB	2.04	0.88
6:n:1411:ILE:HG22	6:n:1412:ILE:H	1.39	0.88
5:E:32:VAL:HG22	5:E:33:LYS:H	1.34	0.88
3:c:1329:ALA:HB1	3:c:1334:ALA:O	1.73	0.88
5:e:1173:ASP:HB3	5:e:1437:SER:CB	2.04	0.88
3:K:265:LYS:HZ3	3:K:268:ASP:HB3	1.34	0.88
6:N:209:PHE:HE2	6:N:376:CYS:HG	0.92	0.88
2:b:1242:LYS:CE	2:b:1247:GLY:H	1.86	0.88
1:A:90:GLN:CG	1:A:101:VAL:HG21	2.03	0.88
5:M:174:GLU:O	5:M:175:LEU:HG	1.74	0.88
2:b:1285:ILE:HD11	2:b:1289:LEU:HD23	1.56	0.88
3:k:1329:ALA:HB1	3:k:1334:ALA:O	1.73	0.88
6:n:1143:LEU:CD1	6:n:1145:ASN:H	1.85	0.88
6:n:1540:THR:C	6:n:1541:LEU:CD2	2.47	0.88
5:E:320:VAL:HG22	5:E:341:PRO:HD2	1.56	0.88
8:H:237:LYS:CB	8:H:314:ASN:CB	2.49	0.88
6:N:330:LEU:HD12	6:N:375:SER:HB3	1.57	0.88
6:N:541:LEU:HB3	6:N:542:LYS:HA	1.56	0.88
2:B:514:ILE:HD12	3:C:47:MET:HB3	1.56	0.87
6:F:330:LEU:HD12	6:F:375:SER:HB3	1.56	0.87
6:f:1036:ASN:HB3	6:f:1057:LYS:HZ2	1.38	0.87
6:f:1330:LEU:HD12	6:f:1375:SER:HB3	1.57	0.87
2:j:1242:LYS:CE	2:j:1247:GLY:H	1.86	0.87
1:I:156:LEU:HD13	1:I:185:LEU:HD11	1.54	0.87
6:f:1439:LYS:HD2	6:f:1439:LYS:N	1.89	0.87
4:l:1520:ARG:O	7:o:1049:SER:CB	2.21	0.87
2:B:474:LEU:HG	9:B:601:ADP:C2	2.09	0.87
3:C:230:VAL:CG1	3:C:302:SER:OG	2.22	0.87
3:K:230:VAL:CG1	3:K:302:SER:OG	2.22	0.87
6:f:1354:VAL:HG13	6:f:1367:VAL:HG22	1.53	0.87
6:n:1036:ASN:HB3	6:n:1057:LYS:HZ1	1.30	0.87
3:K:269:TRP:CZ3	6:N:247:VAL:HB	2.09	0.87
6:f:1411:ILE:HG22	6:f:1412:ILE:H	1.39	0.87
1:i:1090:GLN:CG	1:i:1101:VAL:HG21	2.03	0.87
3:k:1230:VAL:CG1	3:k:1302:SER:OG	2.22	0.87
3:C:329:ALA:HB1	3:C:334:ALA:O	1.73	0.87
6:F:430:ASN:CA	6:F:433:LYS:HG2	2.00	0.87
2:J:329:PHE:C	2:J:329:PHE:CD2	2.51	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1070:ASP:CB	6:f:1005:LEU:HD22	2.04	0.87
3:c:1250:LEU:HD11	3:c:1301:VAL:HG21	1.56	0.87
1:a:1264:ILE:HD11	7:g:1259:VAL:HG23	1.53	0.87
1:i:1350:PHE:CE2	1:i:1354:TYR:HB2	2.09	0.87
2:j:1263:LYS:HZ3	3:k:1266:GLU:HB3	1.33	0.87
7:o:1316:GLY:O	7:o:1317:ARG:HB3	1.71	0.87
2:J:285:ILE:HD11	2:J:289:LEU:HD23	1.56	0.87
6:N:362:GLU:HG2	6:N:364:PHE:CE2	2.10	0.87
1:a:1350:PHE:CE2	1:a:1354:TYR:HB2	2.09	0.87
6:f:1143:LEU:CD1	6:f:1145:ASN:H	1.85	0.87
3:k:1456:LEU:HD21	9:k:2101:ADP:H5'1	1.56	0.87
6:F:38:GLY:H	9:F:601:ADP:H5'1	1.36	0.87
7:G:43:THR:CG2	7:G:64:ASN:HB3	2.05	0.87
7:g:1148:THR:O	7:g:1149:SER:HB3	1.75	0.87
3:k:1250:LEU:HD11	3:k:1301:VAL:HG21	1.56	0.87
6:n:1330:LEU:HD12	6:n:1375:SER:HB3	1.57	0.87
8:p:1006:PRO:HB2	8:p:1007:GLN:HG3	1.55	0.87
5:E:173:ASP:HB3	5:E:437:SER:CB	2.04	0.87
7:O:170:LEU:HD23	7:O:170:LEU:O	1.75	0.87
3:c:1230:VAL:CG1	3:c:1302:SER:OG	2.22	0.87
1:A:350:PHE:CE2	1:A:354:TYR:HB2	2.09	0.86
2:B:285:ILE:HD11	2:B:289:LEU:HD23	1.56	0.86
8:H:204:VAL:HG13	8:H:405:VAL:HG12	1.57	0.86
3:c:1129:LEU:HG	3:c:1514:ILE:HG21	1.57	0.86
6:n:1362:GLU:HG2	6:n:1364:PHE:CE2	2.10	0.86
7:o:1043:THR:CG2	7:o:1064:ASN:HB3	2.05	0.86
7:o:1170:LEU:HD23	7:o:1170:LEU:O	1.75	0.86
6:N:5:LEU:HA	6:N:6:LEU:HB3	1.57	0.86
6:N:5:LEU:HB2	6:N:6:LEU:O	1.75	0.86
6:f:1362:GLU:HG2	6:f:1364:PHE:CE2	2.10	0.86
2:j:1329:PHE:C	2:j:1329:PHE:CD2	2.51	0.86
7:o:1148:THR:O	7:o:1149:SER:HB3	1.75	0.86
7:O:43:THR:CG2	7:O:64:ASN:HB3	2.05	0.86
3:c:1015:THR:O	3:c:1016:THR:O	1.93	0.86
5:e:1034:ASP:CA	6:n:1117:ILE:CD1	2.52	0.86
5:e:1174:GLU:O	5:e:1175:LEU:HG	1.74	0.86
8:p:1204:VAL:HG13	8:p:1405:VAL:HG12	1.57	0.86
6:F:143:LEU:CD1	6:F:145:ASN:H	1.85	0.86
3:K:15:THR:O	3:K:16:THR:O	1.93	0.86
6:N:540:THR:C	6:N:541:LEU:CD2	2.47	0.86
2:b:1348:LEU:HG	6:f:1086:ILE:N	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1170:LEU:HD23	7:g:1170:LEU:O	1.75	0.86
8:p:1024:ALA:HA	8:p:1531:ALA:O	1.76	0.86
8:P:388:GLY:HA3	8:P:394:LEU:HD21	1.54	0.86
3:k:1015:THR:O	3:k:1016:THR:O	1.93	0.86
6:n:1154:ALA:CB	6:n:1402:VAL:CG2	2.54	0.86
6:n:1434:LEU:H	6:n:1434:LEU:CD2	1.80	0.86
6:F:362:GLU:HG2	6:F:364:PHE:CE2	2.10	0.86
2:J:208:LEU:HD13	2:J:366:THR:HG22	1.56	0.86
3:k:1129:LEU:HG	3:k:1514:ILE:HG21	1.57	0.86
6:F:117:ILE:HG12	5:M:33:LYS:HE2	1.56	0.86
7:O:148:THR:O	7:O:149:SER:HB3	1.75	0.86
4:d:1524:ILE:CA	7:g:1052:LEU:O	2.24	0.86
5:e:1320:VAL:HG22	5:e:1341:PRO:HD2	1.56	0.86
3:C:129:LEU:HG	3:C:514:ILE:HG21	1.57	0.86
3:K:129:LEU:HG	3:K:514:ILE:HG21	1.57	0.86
8:P:24:ALA:HA	8:P:531:ALA:O	1.76	0.86
6:f:1415:ALA:HB2	6:f:1506:ILE:HG21	1.57	0.86
8:h:1024:ALA:HA	8:h:1531:ALA:O	1.76	0.86
6:F:154:ALA:CB	6:F:402:VAL:CG2	2.54	0.86
6:F:411:ILE:HG22	6:F:412:ILE:H	1.39	0.86
8:H:6:PRO:HB2	8:H:7:GLN:HG3	1.55	0.86
6:f:1151:LEU:HD13	6:f:1175:THR:HG21	0.86	0.86
6:F:151:LEU:HD13	6:F:175:THR:HG21	0.86	0.85
6:F:540:THR:C	6:F:541:LEU:CD2	2.47	0.85
6:F:541:LEU:HB3	6:F:542:LYS:HA	1.56	0.85
5:M:320:VAL:HG22	5:M:341:PRO:HD2	1.56	0.85
6:N:411:ILE:HG22	6:N:412:ILE:H	1.39	0.85
6:f:1005:LEU:HA	6:f:1006:LEU:HB3	1.57	0.85
6:f:1540:THR:C	6:f:1541:LEU:CD2	2.47	0.85
7:g:1043:THR:CG2	7:g:1064:ASN:HB3	2.05	0.85
4:l:1524:ILE:HG23	7:o:1052:LEU:O	1.76	0.85
6:n:1005:LEU:HA	6:n:1006:LEU:HB3	1.57	0.85
6:n:1243:GLU:HA	6:n:1243:GLU:OE2	1.76	0.85
3:C:15:THR:O	3:C:16:THR:O	1.93	0.85
5:E:166:ASP:CA	5:E:167:ASP:HB2	2.06	0.85
6:F:5:LEU:HA	6:F:6:LEU:HB3	1.57	0.85
7:G:516:LEU:HD22	7:G:516:LEU:O	1.76	0.85
3:K:329:ALA:HB1	3:K:334:ALA:O	1.73	0.85
4:L:72:HIS:CB	4:L:75:ALA:HB3	2.05	0.85
6:F:5:LEU:HB2	6:F:6:LEU:O	1.75	0.85
7:G:189:LEU:HD12	7:G:189:LEU:O	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:208:LEU:HD11	2:J:364:ALA:HB1	1.59	0.85
6:N:154:ALA:CB	6:N:402:VAL:CG2	2.54	0.85
1:a:1088:GLN:O	1:a:1092:ARG:HD2	1.76	0.85
4:d:1072:HIS:CB	4:d:1075:ALA:HB3	2.05	0.85
7:g:1189:LEU:CA	7:g:1190:ASP:HB2	1.94	0.85
4:l:1072:HIS:CB	4:l:1075:ALA:HB3	2.05	0.85
4:l:1151:VAL:HG22	4:l:1175:VAL:HG21	1.59	0.85
5:m:1166:ASP:CA	5:m:1167:ASP:HB2	2.07	0.85
5:m:1320:VAL:HG22	5:m:1341:PRO:HD2	1.56	0.85
6:N:243:GLU:OE2	6:N:243:GLU:HA	1.76	0.85
2:b:1072:PRO:O	2:b:1076:VAL:HG23	1.76	0.85
6:f:1154:ALA:CB	6:f:1402:VAL:CG2	2.54	0.85
2:j:1072:PRO:O	2:j:1076:VAL:HG23	1.76	0.85
4:D:520:ARG:O	7:G:49:SER:CB	2.23	0.85
1:a:1093:GLU:CB	1:a:1094:ILE:CD1	2.55	0.85
6:f:1541:LEU:HB3	6:f:1542:LYS:HA	1.56	0.85
6:n:1415:ALA:HB2	6:n:1506:ILE:HG21	1.58	0.85
2:b:1251:LYS:H	6:f:1251:PHE:HA	1.42	0.85
6:f:1075:LEU:HD13	6:f:1527:LEU:HD21	1.59	0.85
2:B:208:LEU:HD11	2:B:364:ALA:HB1	1.59	0.85
2:B:211:GLY:HA3	2:B:355:LYS:O	1.77	0.85
2:B:245:ILE:O	2:B:246:PHE:CD2	2.30	0.85
2:B:422:ILE:CB	2:B:427:SER:HB2	2.07	0.85
4:D:72:HIS:CB	4:D:75:ALA:HB3	2.05	0.85
7:G:148:THR:O	7:G:149:SER:HB3	1.75	0.85
6:N:75:LEU:HD13	6:N:527:LEU:HD21	1.59	0.85
2:b:1004:GLN:C	2:b:1005:ILE:HG23	2.02	0.85
2:b:1208:LEU:HD11	2:b:1364:ALA:HB1	1.59	0.85
2:b:1422:ILE:CB	2:b:1427:SER:HB2	2.07	0.85
2:j:1285:ILE:HD11	2:j:1289:LEU:HD23	1.56	0.85
3:k:1301:VAL:HG23	3:k:1305:ALA:CB	2.04	0.85
4:l:1521:ILE:HG23	7:o:1051:ILE:HA	1.59	0.85
8:p:1346:ALA:N	8:p:1347:PRO:HD3	1.92	0.85
1:A:88:GLN:O	1:A:92:ARG:HD2	1.76	0.85
2:J:4:GLN:C	2:J:5:ILE:HG23	2.02	0.85
6:N:151:LEU:HD13	6:N:175:THR:HG21	0.86	0.85
5:e:1039:LYS:HZ3	6:n:1109:ILE:HG13	1.40	0.85
6:f:1005:LEU:HB2	6:f:1006:LEU:O	1.75	0.85
8:h:1346:ALA:N	8:h:1347:PRO:HD3	1.92	0.85
5:m:1104:LEU:HD21	5:m:1123:VAL:HG13	1.58	0.85
1:A:93:GLU:CB	1:A:94:ILE:CD1	2.55	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:422:ILE:CB	2:J:427:SER:HB2	2.07	0.85
2:j:1263:LYS:HZ1	3:k:1266:GLU:HG2	1.39	0.85
8:H:24:ALA:HA	8:H:531:ALA:O	1.76	0.85
8:H:346:ALA:N	8:H:347:PRO:HD3	1.92	0.85
2:J:72:PRO:O	2:J:76:VAL:HG23	1.76	0.85
8:h:1204:VAL:HG13	8:h:1405:VAL:HG12	1.57	0.85
2:B:72:PRO:O	2:B:76:VAL:HG23	1.76	0.84
5:e:1166:ASP:CA	5:e:1167:ASP:HB2	2.07	0.84
1:i:1093:GLU:CB	1:i:1094:ILE:CD1	2.55	0.84
5:E:104:LEU:HD21	5:E:123:VAL:HG13	1.58	0.84
4:L:285:VAL:HA	4:L:311:MET:O	1.78	0.84
5:M:166:ASP:CA	5:M:167:ASP:HB2	2.07	0.84
8:P:204:VAL:HG13	8:P:405:VAL:HG12	1.57	0.84
5:e:1084:THR:HG22	5:e:1086:ASP:H	1.42	0.84
6:f:1035:THR:HG22	6:f:1042:THR:O	1.78	0.84
6:n:1005:LEU:HB2	6:n:1006:LEU:O	1.75	0.84
7:O:189:LEU:HD12	7:O:189:LEU:O	1.77	0.84
7:O:516:LEU:HD22	7:O:516:LEU:O	1.76	0.84
4:d:1285:VAL:HA	4:d:1311:MET:O	1.78	0.84
7:g:1516:LEU:HD22	7:g:1516:LEU:O	1.76	0.84
1:i:1158:ASN:HB3	1:i:1516:GLY:O	1.77	0.84
2:j:1211:GLY:HA3	2:j:1355:LYS:O	1.77	0.84
4:l:1285:VAL:HA	4:l:1311:MET:O	1.78	0.84
4:D:330:CYS:CB	4:D:345:ASP:OD1	2.25	0.84
4:L:521:ILE:CD1	7:O:62:ILE:CD1	2.48	0.84
4:d:1521:ILE:CG1	7:g:1062:ILE:HD11	2.07	0.84
5:e:1104:LEU:HD21	5:e:1123:VAL:HG13	1.58	0.84
7:g:1186:VAL:HG21	7:g:1400:VAL:HG21	1.59	0.84
6:F:75:LEU:HD13	6:F:527:LEU:HD21	1.59	0.84
2:J:245:ILE:O	2:J:246:PHE:CD2	2.30	0.84
6:N:3:LEU:N	6:N:4:GLN:CB	2.41	0.84
7:O:109:MET:CG	7:O:514:THR:HG22	2.08	0.84
7:O:189:LEU:CA	7:O:190:ASP:HB2	1.94	0.84
1:a:1045:GLY:H	9:a:1601:ADP:H5'1	1.42	0.84
2:b:1088:VAL:HG13	2:b:1393:GLN:HE22	1.43	0.84
2:j:1463:ILE:C	2:j:1467:ILE:HG12	2.01	0.84
7:o:1189:LEU:HD12	7:o:1189:LEU:O	1.77	0.84
7:G:170:LEU:HD23	7:G:170:LEU:O	1.75	0.84
1:I:158:ASN:HB3	1:I:516:GLY:O	1.77	0.84
2:b:1211:GLY:HA3	2:b:1355:LYS:O	1.77	0.84
2:B:463:ILE:C	2:B:467:ILE:HG12	2.01	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:88:GLN:O	1:I:92:ARG:HD2	1.76	0.84
7:O:186:VAL:HG21	7:O:400:VAL:CG2	2.08	0.84
7:g:1189:LEU:HD12	7:g:1189:LEU:O	1.77	0.84
7:o:1109:MET:CG	7:o:1514:THR:HG22	2.08	0.84
4:D:250:ASN:HA	7:G:259:VAL:HG12	1.60	0.84
4:D:285:VAL:HA	4:D:311:MET:O	1.78	0.84
6:N:424:ARG:HG2	6:N:483:SER:HA	1.60	0.84
2:b:1245:ILE:O	2:b:1246:PHE:CD2	2.30	0.84
6:f:1243:GLU:HA	6:f:1243:GLU:OE2	1.76	0.84
4:l:1521:ILE:HG23	7:o:1050:ASP:O	1.77	0.84
4:l:1524:ILE:CA	7:o:1052:LEU:O	2.25	0.84
7:o:1516:LEU:HD22	7:o:1516:LEU:O	1.76	0.84
2:B:4:GLN:C	2:B:5:ILE:HG23	2.02	0.84
4:D:71:LEU:CB	8:P:6:PRO:CB	2.55	0.84
6:F:36:ASN:HB3	6:F:57:LYS:HZ1	1.41	0.84
1:I:93:GLU:CB	1:I:94:ILE:CD1	2.54	0.84
2:J:463:ILE:C	2:J:467:ILE:HG12	2.01	0.84
1:a:1158:ASN:HB3	1:a:1516:GLY:O	1.77	0.84
2:b:1463:ILE:C	2:b:1467:ILE:HG12	2.01	0.84
6:f:1003:LEU:N	6:f:1004:GLN:CB	2.41	0.84
2:j:1422:ILE:CB	2:j:1427:SER:HB2	2.07	0.84
2:B:295:GLU:C	6:F:337:GLN:HE22	1.86	0.84
6:F:35:THR:HG22	6:F:42:THR:O	1.78	0.84
4:L:524:ILE:HG12	7:O:52:LEU:HB3	0.87	0.84
4:l:1185:ASN:CB	4:l:1186:SER:HB2	2.08	0.84
4:D:185:ASN:CB	4:D:186:SER:HB2	2.08	0.83
4:D:524:ILE:CA	7:G:52:LEU:O	2.24	0.83
2:J:361:ALA:H	2:J:362:GLY:HA2	1.01	0.83
5:M:104:LEU:HD21	5:M:123:VAL:HG13	1.58	0.83
6:N:415:ALA:HB2	6:N:506:ILE:HG21	1.57	0.83
1:i:1264:ILE:HD11	7:o:1259:VAL:HG23	1.60	0.83
2:j:1245:ILE:O	2:j:1246:PHE:CD2	2.30	0.83
7:o:1186:VAL:HG21	7:o:1400:VAL:CG2	2.08	0.83
8:p:1074:GLU:OE1	8:p:1074:GLU:HA	1.78	0.83
2:B:88:VAL:HG13	2:B:393:GLN:HE22	1.43	0.83
5:E:84:THR:HG22	5:E:86:ASP:H	1.42	0.83
6:F:3:LEU:N	6:F:4:GLN:CB	2.41	0.83
7:G:109:MET:CG	7:G:514:THR:HG22	2.08	0.83
7:O:94:VAL:HG21	7:O:502:VAL:CG2	2.06	0.83
3:k:1430:LYS:O	3:k:1433:GLN:HG3	1.78	0.83
4:L:151:VAL:HG22	4:L:175:VAL:HG21	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1320:VAL:HG21	2:b:1337:LEU:CB	2.09	0.83
2:j:1208:LEU:HD11	2:j:1364:ALA:HB1	1.59	0.83
2:B:320:VAL:HG21	2:B:337:LEU:CB	2.09	0.83
4:D:254:VAL:HG21	8:H:265:VAL:HG22	1.60	0.83
6:F:539:SER:CB	6:F:542:LYS:HD2	2.09	0.83
8:P:346:ALA:N	8:P:347:PRO:HD3	1.92	0.83
7:g:1094:VAL:HG21	7:g:1502:VAL:CG2	2.06	0.83
1:i:1088:GLN:O	1:i:1092:ARG:HD2	1.76	0.83
6:n:1382:GLY:HA3	6:n:1388:LEU:HD21	1.61	0.83
1:A:264:ILE:HD11	7:G:259:VAL:HG23	1.61	0.83
7:G:186:VAL:HG21	7:G:400:VAL:CG2	2.08	0.83
6:N:56:THR:HB	6:N:390:GLN:NE2	1.94	0.83
6:N:382:GLY:HA3	6:N:388:LEU:HD21	1.61	0.83
6:f:1056:THR:HB	6:f:1390:GLN:NE2	1.94	0.83
2:j:1263:LYS:NZ	3:k:1266:GLU:CG	2.41	0.83
6:n:1151:LEU:HD13	6:n:1175:THR:HG21	0.86	0.83
6:N:35:THR:HG22	6:N:42:THR:O	1.78	0.83
3:c:1301:VAL:HG23	3:c:1305:ALA:CB	2.04	0.83
4:d:1151:VAL:HG22	4:d:1175:VAL:HG21	1.59	0.83
7:g:1186:VAL:HG21	7:g:1400:VAL:CG2	2.08	0.83
7:g:1189:LEU:HA	7:g:1190:ASP:HB3	0.83	0.83
3:K:430:LYS:O	3:K:433:GLN:HG3	1.78	0.83
6:N:539:SER:CB	6:N:542:LYS:HD2	2.09	0.83
2:b:1263:LYS:NZ	3:c:1266:GLU:HB3	1.94	0.83
4:d:1099:LEU:O	4:d:1103:LEU:HB2	1.79	0.83
6:f:1424:ARG:HG2	6:f:1483:SER:HA	1.60	0.83
7:g:1109:MET:CG	7:g:1514:THR:HG22	2.08	0.83
1:i:1093:GLU:C	1:i:1094:ILE:HD12	2.03	0.83
7:G:186:VAL:HG21	7:G:400:VAL:HG21	1.59	0.83
7:O:175:ALA:O	7:O:179:VAL:HG23	1.79	0.83
3:c:1430:LYS:O	3:c:1433:GLN:HG3	1.79	0.83
6:f:1430:ASN:O	6:f:1433:LYS:N	2.12	0.83
2:j:1088:VAL:HG13	2:j:1393:GLN:HE22	1.43	0.83
6:n:1075:LEU:HD13	6:n:1527:LEU:HD21	1.59	0.83
2:b:1176:LEU:HD23	2:b:1208:LEU:HB2	1.60	0.83
2:B:37:LEU:HA	9:B:601:ADP:H5'1	1.61	0.83
6:F:243:GLU:OE2	6:F:243:GLU:HA	1.76	0.83
6:F:415:ALA:HB2	6:F:506:ILE:HG21	1.58	0.83
5:M:84:THR:HG22	5:M:86:ASP:H	1.42	0.83
7:O:126:MET:HE2	7:O:126:MET:HA	1.60	0.83
7:O:189:LEU:HA	7:O:190:ASP:HB3	0.83	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1185:ASN:CB	4:d:1186:SER:HB2	2.08	0.83
6:n:1539:SER:CB	6:n:1542:LYS:HD2	2.09	0.83
4:D:521:ILE:CD1	7:G:62:ILE:CD1	2.50	0.82
7:G:175:ALA:O	7:G:179:VAL:HG23	1.79	0.82
1:a:1093:GLU:C	1:a:1094:ILE:HD12	2.03	0.82
2:j:1004:GLN:C	2:j:1005:ILE:HG23	2.02	0.82
2:J:211:GLY:HA3	2:J:355:LYS:O	1.77	0.82
5:M:173:ASP:HB3	5:M:437:SER:HB2	1.60	0.82
6:n:1003:LEU:N	6:n:1004:GLN:CB	2.41	0.82
6:n:1035:THR:HG22	6:n:1042:THR:O	1.78	0.82
6:n:1056:THR:HB	6:n:1390:GLN:NE2	1.94	0.82
5:e:1173:ASP:HB3	5:e:1437:SER:HB2	1.61	0.82
5:m:1084:THR:HG22	5:m:1086:ASP:H	1.42	0.82
7:o:1191:ARG:CD	7:o:1192:ASN:H	1.92	0.82
1:A:158:ASN:HB3	1:A:516:GLY:O	1.77	0.82
6:F:382:GLY:HA3	6:F:388:LEU:HD21	1.61	0.82
7:G:126:MET:HE2	7:G:126:MET:HA	1.60	0.82
3:K:306:GLN:HA	3:K:316:VAL:HG11	1.62	0.82
4:L:185:ASN:CB	4:L:186:SER:HB2	2.08	0.82
2:j:1176:LEU:HD23	2:j:1208:LEU:HB2	1.60	0.82
4:l:1134:ILE:HD11	4:l:1424:ARG:CD	2.09	0.82
6:F:56:THR:HB	6:F:390:GLN:NE2	1.94	0.82
1:I:93:GLU:C	1:I:94:ILE:HD12	2.03	0.82
2:J:4:GLN:CA	2:J:5:ILE:CB	2.57	0.82
6:n:1003:LEU:HA	6:n:1005:LEU:HG	1.60	0.82
2:B:4:GLN:CA	2:B:5:ILE:CG2	2.57	0.82
4:D:99:LEU:O	4:D:103:LEU:HB2	1.79	0.82
6:F:3:LEU:HA	6:F:5:LEU:HG	1.60	0.82
2:J:4:GLN:CA	2:J:5:ILE:CG2	2.57	0.82
2:J:88:VAL:HG13	2:J:393:GLN:HE22	1.43	0.82
2:J:176:LEU:HD23	2:J:208:LEU:HB2	1.60	0.82
2:b:1361:ALA:H	2:b:1362:GLY:HA2	1.01	0.82
7:g:1175:ALA:O	7:g:1179:VAL:HG23	1.78	0.82
7:g:1191:ARG:CD	7:g:1192:ASN:H	1.92	0.82
2:B:361:ALA:H	2:B:362:GLY:HA2	1.01	0.82
2:J:320:VAL:HG21	2:J:337:LEU:CB	2.09	0.82
1:a:1517:VAL:O	1:a:1518:LEU:CG	2.28	0.82
2:j:1004:GLN:CA	2:j:1005:ILE:CG2	2.57	0.82
2:j:1072:PRO:CB	3:k:1047:MET:HE1	2.09	0.82
4:l:1099:LEU:O	4:l:1103:LEU:HB2	1.79	0.82
6:n:1424:ARG:HG2	6:n:1483:SER:HA	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1094:VAL:HG21	7:o:1502:VAL:CG2	2.06	0.82
1:A:93:GLU:C	1:A:94:ILE:HD12	2.03	0.82
3:C:306:GLN:HA	3:C:316:VAL:HG11	1.62	0.82
3:C:493:ASP:HB3	3:C:495:VAL:HG12	1.62	0.82
4:D:134:ILE:HD11	4:D:424:ARG:CD	2.09	0.82
4:D:151:VAL:HG22	4:D:175:VAL:HG21	1.58	0.82
4:D:521:ILE:HG23	7:G:51:ILE:HA	1.61	0.82
1:I:12:THR:HG21	5:M:97:ASP:H	1.45	0.82
7:O:186:VAL:HG21	7:O:400:VAL:HG21	1.59	0.82
6:f:1382:GLY:HA3	6:f:1388:LEU:HD21	1.61	0.82
7:o:1189:LEU:HA	7:o:1190:ASP:HB3	0.83	0.82
3:C:430:LYS:O	3:C:433:GLN:HG3	1.79	0.82
7:G:189:LEU:HA	7:G:190:ASP:HB3	0.83	0.82
3:c:1493:ASP:HB3	3:c:1495:VAL:HG12	1.62	0.82
5:e:1033:LYS:HE2	6:n:1117:ILE:HG12	1.61	0.82
5:e:1355:ALA:HB3	6:f:1222:PRO:HG2	1.62	0.82
6:f:1430:ASN:CA	6:f:1433:LYS:HG2	2.00	0.82
2:j:1361:ALA:H	2:j:1362:GLY:HA2	1.01	0.82
6:n:1478:ASP:O	6:n:1482:ASP:HB3	1.80	0.82
7:o:1175:ALA:O	7:o:1179:VAL:HG23	1.78	0.82
7:o:1186:VAL:HG21	7:o:1400:VAL:HG21	1.59	0.82
4:D:521:ILE:HG23	7:G:50:ASP:O	1.80	0.82
5:e:1166:ASP:CB	5:e:1167:ASP:HB2	2.10	0.82
6:f:1539:SER:CB	6:f:1542:LYS:HD2	2.09	0.82
7:g:1126:MET:HE2	7:g:1126:MET:HA	1.60	0.82
7:G:191:ARG:CD	7:G:192:ASN:H	1.92	0.81
8:H:74:GLU:OE1	8:H:74:GLU:HA	1.78	0.81
7:O:191:ARG:CD	7:O:192:ASN:H	1.92	0.81
6:n:1143:LEU:HA	6:n:1145:ASN:N	1.95	0.81
6:n:1430:ASN:O	6:n:1433:LYS:N	2.12	0.81
4:D:246:PRO:HB2	4:D:250:ASN:OD1	1.80	0.81
6:F:430:ASN:O	6:F:433:LYS:N	2.12	0.81
2:J:249:LYS:O	6:N:250:GLY:N	2.12	0.81
2:J:361:ALA:H	2:J:362:GLY:CA	1.86	0.81
1:a:1123:THR:HG21	5:e:1068:ARG:HE	1.46	0.81
4:d:1246:PRO:HB2	4:d:1250:ASN:OD1	1.80	0.81
2:j:1320:VAL:HG21	2:j:1337:LEU:CB	2.09	0.81
2:B:4:GLN:N	2:B:5:ILE:HG23	1.96	0.81
6:F:424:ARG:HG2	6:F:483:SER:HA	1.60	0.81
6:F:478:ASP:O	6:F:482:ASP:HB3	1.80	0.81
7:G:94:VAL:HG21	7:G:502:VAL:CG2	2.06	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:506:LYS:HA	3:K:506:LYS:HE2	1.63	0.81
4:L:134:ILE:HD11	4:L:424:ARG:CD	2.09	0.81
5:M:166:ASP:CB	5:M:167:ASP:HB2	2.11	0.81
8:P:74:GLU:OE1	8:P:74:GLU:HA	1.79	0.81
2:b:1004:GLN:CA	2:b:1005:ILE:CG2	2.57	0.81
4:d:1134:ILE:HD11	4:d:1424:ARG:CD	2.09	0.81
5:e:1401:THR:O	5:e:1402:LYS:HG3	1.81	0.81
6:f:1003:LEU:HA	6:f:1005:LEU:HG	1.60	0.81
6:f:1195:GLU:HG2	6:f:1197:MET:SD	2.21	0.81
2:j:1361:ALA:H	2:j:1362:GLY:CA	1.86	0.81
4:l:1246:PRO:HB2	4:l:1250:ASN:OD1	1.80	0.81
6:F:143:LEU:HA	6:F:145:ASN:N	1.95	0.81
5:M:368:ASP:O	5:M:370:SER:N	2.13	0.81
6:N:430:ASN:O	6:N:433:LYS:N	2.12	0.81
7:g:1145:VAL:O	7:g:1408:LEU:HA	1.80	0.81
1:i:1224:LEU:CD1	1:i:1226:CYS:HB2	2.11	0.81
5:m:1401:THR:O	5:m:1402:LYS:HG3	1.81	0.81
7:o:1126:MET:HE2	7:o:1126:MET:HA	1.60	0.81
7:o:1188:SER:O	7:o:1190:ASP:CB	2.28	0.81
5:E:173:ASP:HB3	5:E:437:SER:HB2	1.60	0.81
2:J:426:LYS:O	2:J:429:ALA:HB3	1.81	0.81
6:N:3:LEU:HA	6:N:5:LEU:HG	1.60	0.81
8:P:206:SER:CB	8:P:381:THR:HG22	2.11	0.81
2:b:1004:GLN:N	2:b:1005:ILE:HG23	1.96	0.81
2:b:1426:LYS:O	2:b:1429:ALA:HB3	1.81	0.81
6:f:1541:LEU:HD22	6:f:1541:LEU:N	1.95	0.81
7:g:1248:LEU:CB	7:g:1299:ILE:HD12	2.11	0.81
8:h:1074:GLU:OE1	8:h:1074:GLU:HA	1.78	0.81
4:l:1336:ILE:HG22	4:l:1336:ILE:O	1.81	0.81
5:m:1173:ASP:HB3	5:m:1437:SER:HB2	1.60	0.81
6:n:1002:SER:HA	6:n:1003:LEU:HB2	1.63	0.81
6:n:1005:LEU:HA	6:n:1006:LEU:HB2	1.62	0.81
8:p:1360:THR:HG22	8:p:1369:THR:HG22	1.63	0.81
2:B:4:GLN:HA	2:B:5:ILE:CG2	2.11	0.81
2:B:426:LYS:O	2:B:429:ALA:HB3	1.81	0.81
5:E:166:ASP:CB	5:E:167:ASP:HB2	2.10	0.81
5:E:401:THR:O	5:E:402:LYS:HG3	1.81	0.81
6:F:5:LEU:HA	6:F:6:LEU:HB2	1.62	0.81
7:G:145:VAL:O	7:G:408:LEU:HA	1.80	0.81
7:G:171:ILE:HG23	7:G:178:PHE:CD2	2.16	0.81
2:J:4:GLN:N	2:J:5:ILE:HG23	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:2:SER:HA	6:N:3:LEU:HB2	1.63	0.81
1:a:1012:THR:HG21	5:e:1097:ASP:H	1.46	0.81
7:g:1188:SER:O	7:g:1190:ASP:CB	2.28	0.81
8:h:1206:SER:CB	8:h:1381:THR:HG22	2.11	0.81
7:o:1232:GLN:CG	7:o:1313:PHE:HA	2.10	0.81
4:D:499:GLN:HE22	9:D:601:ADP:H2'	1.45	0.81
3:K:41:PRO:HA	3:K:161:THR:HG22	1.63	0.81
3:K:493:ASP:HB3	3:K:495:VAL:HG12	1.62	0.81
4:L:99:LEU:O	4:L:103:LEU:HB2	1.79	0.81
5:M:401:THR:O	5:M:402:LYS:HG3	1.81	0.81
6:N:541:LEU:HD22	6:N:541:LEU:N	1.95	0.81
4:d:1254:VAL:CG2	8:h:1265:VAL:HA	2.11	0.81
7:o:1145:VAL:O	7:o:1408:LEU:HA	1.81	0.81
6:N:452:LEU:O	6:N:455:PRO:HD2	1.80	0.81
7:O:120:ILE:H	7:O:120:ILE:HD13	1.46	0.81
4:d:1336:ILE:HG22	4:d:1336:ILE:O	1.81	0.81
1:i:1517:VAL:O	1:i:1518:LEU:CG	2.28	0.81
2:j:1475:ASN:H	2:j:1475:ASN:HD22	1.28	0.81
2:J:4:GLN:HA	2:J:5:ILE:CG2	2.11	0.81
2:J:263:LYS:HZ3	3:K:266:GLU:HB3	1.43	0.81
3:K:56:VAL:C	3:K:57:LEU:HD23	2.06	0.81
7:O:171:ILE:HG23	7:O:178:PHE:CD2	2.16	0.81
8:P:360:THR:HG22	8:P:369:THR:HG22	1.63	0.81
5:m:1368:ASP:O	5:m:1370:SER:N	2.13	0.81
6:n:1215:LEU:HB3	6:n:1217:HIS:HD2	1.46	0.81
6:n:1541:LEU:HD22	6:n:1541:LEU:N	1.95	0.81
6:n:1541:LEU:HB3	6:n:1542:LYS:HA	1.56	0.81
2:B:4:GLN:CA	2:B:5:ILE:CB	2.58	0.81
5:E:368:ASP:O	5:E:370:SER:N	2.13	0.81
7:G:232:GLN:CG	7:G:313:PHE:HA	2.10	0.81
2:b:1242:LYS:HB2	3:c:1269:TRP:HZ2	1.45	0.81
3:c:1506:LYS:HE2	3:c:1506:LYS:HA	1.63	0.81
6:f:1452:LEU:O	6:f:1455:PRO:HD2	1.80	0.81
2:j:1165:ILE:HG12	6:n:1529:LEU:HD13	1.62	0.81
2:B:176:LEU:HD23	2:B:208:LEU:HB2	1.60	0.80
4:D:71:LEU:CB	8:P:6:PRO:HB3	2.12	0.80
6:F:195:GLU:HG2	6:F:197:MET:SD	2.21	0.80
7:G:248:LEU:CB	7:G:299:ILE:HD12	2.11	0.80
7:g:1232:GLN:CG	7:g:1313:PHE:HA	2.10	0.80
7:o:1248:LEU:CB	7:o:1299:ILE:HD12	2.11	0.80
1:A:517:VAL:O	1:A:518:LEU:CG	2.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:242:LYS:HB2	3:C:269:TRP:HZ2	1.45	0.80
8:H:360:THR:HG22	8:H:369:THR:HG22	1.63	0.80
4:L:246:PRO:HB2	4:L:250:ASN:OD1	1.80	0.80
6:N:143:LEU:HA	6:N:145:ASN:N	1.95	0.80
3:c:1041:PRO:HA	3:c:1161:THR:HG22	1.63	0.80
3:k:1493:ASP:HB3	3:k:1495:VAL:HG12	1.62	0.80
7:o:1120:ILE:HD13	7:o:1120:ILE:H	1.46	0.80
5:E:245:LEU:HD13	5:E:247:LYS:H	1.47	0.80
7:G:412:GLY:O	7:G:491:ASN:ND2	2.14	0.80
1:I:224:LEU:CD1	1:I:226:CYS:HB2	2.11	0.80
1:I:264:ILE:HD11	7:O:259:VAL:HG23	1.62	0.80
3:K:457:ILE:CD1	3:K:467:LEU:HD13	2.11	0.80
6:n:1195:GLU:HG2	6:n:1197:MET:SD	2.21	0.80
6:F:452:LEU:O	6:F:455:PRO:HD2	1.80	0.80
6:F:541:LEU:HD22	6:F:541:LEU:N	1.95	0.80
7:O:145:VAL:O	7:O:408:LEU:HA	1.81	0.80
2:b:1348:LEU:HD21	6:f:1086:ILE:HA	1.60	0.80
3:c:1230:VAL:HG11	3:c:1302:SER:HG	1.40	0.80
6:f:1005:LEU:HA	6:f:1006:LEU:HB2	1.62	0.80
6:f:1143:LEU:HA	6:f:1145:ASN:N	1.95	0.80
2:j:1091:GLY:HA2	11:j:1600:SO4:O2	1.82	0.80
2:j:1426:LYS:O	2:j:1429:ALA:HB3	1.81	0.80
2:j:1469:THR:O	2:j:1470:SER:HB2	1.82	0.80
5:m:1166:ASP:CB	5:m:1167:ASP:HB2	2.10	0.80
7:o:1412:GLY:O	7:o:1491:ASN:ND2	2.14	0.80
4:D:230:GLU:O	4:D:348:ASP:O	2.00	0.80
4:D:521:ILE:CG1	7:G:62:ILE:HD11	2.11	0.80
5:E:401:THR:O	5:E:402:LYS:CG	2.30	0.80
6:F:215:LEU:HB3	6:F:217:HIS:HD2	1.46	0.80
7:G:189:LEU:CA	7:G:190:ASP:HB2	1.94	0.80
4:L:72:HIS:O	4:L:76:ARG:CB	2.30	0.80
2:b:1004:GLN:HA	2:b:1005:ILE:CG2	2.10	0.80
4:d:1230:GLU:O	4:d:1348:ASP:O	2.00	0.80
1:I:517:VAL:O	1:I:518:LEU:CG	2.28	0.80
7:O:248:LEU:CB	7:O:299:ILE:HD12	2.11	0.80
5:e:1245:LEU:HD13	5:e:1247:LYS:H	1.47	0.80
5:e:1401:THR:O	5:e:1402:LYS:CE	2.30	0.80
6:n:1452:LEU:O	6:n:1455:PRO:HD2	1.80	0.80
7:o:1171:ILE:HG23	7:o:1178:PHE:CD2	2.16	0.80
3:C:56:VAL:C	3:C:57:LEU:HD23	2.06	0.80
8:H:206:SER:CB	8:H:381:THR:HG22	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:401:THR:O	5:M:402:LYS:CG	2.30	0.80
5:e:1368:ASP:O	5:e:1370:SER:N	2.13	0.80
6:f:1046:LEU:N	6:f:1054:LYS:O	2.14	0.80
5:m:1401:THR:O	5:m:1402:LYS:CE	2.30	0.80
4:D:323:PHE:HA	4:D:374:THR:HG21	1.64	0.80
2:J:132:LEU:HD21	2:J:495:ARG:HG3	1.64	0.80
2:J:250:PHE:HA	6:N:250:GLY:O	1.81	0.80
3:c:1056:VAL:C	3:c:1057:LEU:HD23	2.06	0.80
3:c:1264:GLU:O	3:c:1265:LYS:CG	2.30	0.80
3:c:1306:GLN:HA	3:c:1316:VAL:HG11	1.62	0.80
4:d:1072:HIS:O	4:d:1076:ARG:CB	2.30	0.80
8:h:1024:ALA:O	8:h:1028:ILE:CG1	2.30	0.80
8:p:1024:ALA:O	8:p:1028:ILE:HG12	1.82	0.80
2:B:233:ILE:O	2:B:325:VAL:HB	1.82	0.80
2:B:361:ALA:H	2:B:362:GLY:CA	1.86	0.80
3:C:506:LYS:HA	3:C:506:LYS:HE2	1.63	0.80
5:E:401:THR:O	5:E:402:LYS:CE	2.30	0.80
4:L:336:ILE:O	4:L:336:ILE:HG22	1.81	0.80
6:N:195:GLU:HG2	6:N:197:MET:SD	2.21	0.80
7:O:232:GLN:CG	7:O:313:PHE:HA	2.10	0.80
1:a:1224:LEU:CD1	1:a:1226:CYS:HB2	2.11	0.80
6:f:1215:LEU:HB3	6:f:1217:HIS:HD2	1.46	0.80
8:h:1024:ALA:O	8:h:1028:ILE:HG12	1.82	0.80
3:k:1041:PRO:HA	3:k:1161:THR:HG22	1.63	0.80
3:k:1082:SER:HB2	3:k:1097:ILE:HD11	1.64	0.80
3:k:1306:GLN:HA	3:k:1316:VAL:HG11	1.62	0.80
8:p:1206:SER:CB	8:p:1381:THR:HG22	2.11	0.80
1:A:224:LEU:CD1	1:A:226:CYS:HB2	2.11	0.80
6:N:5:LEU:HA	6:N:6:LEU:HB2	1.62	0.80
4:d:1323:PHE:HA	4:d:1374:THR:HG21	1.64	0.80
6:f:1276:LYS:O	6:f:1279:ASP:CB	2.30	0.80
7:g:1171:ILE:HG23	7:g:1178:PHE:CD2	2.16	0.80
7:g:1412:GLY:O	7:g:1491:ASN:ND2	2.14	0.80
8:h:1360:THR:HG22	8:h:1369:THR:HG22	1.63	0.80
4:D:72:HIS:O	4:D:76:ARG:CB	2.30	0.79
6:F:2:SER:HA	6:F:3:LEU:HB2	1.63	0.79
6:F:276:LYS:O	6:F:279:ASP:CB	2.30	0.79
7:G:191:ARG:NE	7:G:192:ASN:N	2.30	0.79
2:b:1361:ALA:H	2:b:1362:GLY:CA	1.86	0.79
6:f:1002:SER:HA	6:f:1003:LEU:HB2	1.63	0.79
2:j:1132:LEU:HD21	2:j:1495:ARG:HG3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:191:ARG:NE	7:O:192:ASN:N	2.30	0.79
7:O:412:GLY:O	7:O:491:ASN:ND2	2.14	0.79
8:P:24:ALA:O	8:P:28:ILE:CG1	2.30	0.79
5:e:1401:THR:O	5:e:1402:LYS:CG	2.30	0.79
2:j:1004:GLN:N	2:j:1005:ILE:HG23	1.96	0.79
3:k:1506:LYS:HE2	3:k:1506:LYS:HA	1.63	0.79
4:l:1072:HIS:O	4:l:1076:ARG:CB	2.30	0.79
5:m:1401:THR:O	5:m:1402:LYS:CG	2.30	0.79
1:A:9:ARG:CB	1:A:10:SER:O	2.30	0.79
7:G:191:ARG:HE	7:G:191:ARG:CA	1.94	0.79
8:H:24:ALA:O	8:H:28:ILE:HG12	1.82	0.79
6:N:46:LEU:N	6:N:54:LYS:O	2.14	0.79
6:N:276:LYS:O	6:N:279:ASP:CB	2.30	0.79
2:j:1233:ILE:O	2:j:1325:VAL:HB	1.82	0.79
3:C:82:SER:HB2	3:C:97:ILE:HD11	1.64	0.79
7:G:188:SER:O	7:G:190:ASP:CB	2.28	0.79
8:H:49:CYS:O	8:H:466:THR:HB	1.83	0.79
5:M:509:ASN:HB3	5:M:521:ASP:HB3	1.64	0.79
2:b:1003:VAL:O	2:b:1005:ILE:CD1	2.30	0.79
2:b:1003:VAL:O	2:b:1005:ILE:CG2	2.30	0.79
5:e:1253:GLN:CA	5:e:1254:MET:CB	2.61	0.79
7:g:1125:ILE:HA	7:g:1438:ILE:HG12	1.65	0.79
4:l:1230:GLU:O	4:l:1348:ASP:O	2.00	0.79
5:m:1509:ASN:HB3	5:m:1521:ASP:HB3	1.64	0.79
6:n:1276:LYS:O	6:n:1279:ASP:CB	2.30	0.79
3:K:264:GLU:O	3:K:265:LYS:CG	2.30	0.79
6:N:215:LEU:HB3	6:N:217:HIS:HD2	1.46	0.79
1:a:1009:ARG:CB	1:a:1010:SER:O	2.30	0.79
1:a:1180:VAL:HG13	1:a:1406:LEU:HD23	1.63	0.79
1:I:180:VAL:HG13	1:I:406:LEU:HD23	1.63	0.79
8:P:49:CYS:O	8:P:466:THR:HB	1.82	0.79
6:f:1433:LYS:CG	6:f:1444:ILE:HG21	2.13	0.79
3:k:1056:VAL:C	3:k:1057:LEU:HD23	2.06	0.79
2:B:3:VAL:O	2:B:5:ILE:CD1	2.30	0.79
2:B:475:ASN:H	2:B:475:ASN:HD22	1.28	0.79
8:H:24:ALA:O	8:H:28:ILE:CG1	2.30	0.79
3:K:82:SER:HB2	3:K:97:ILE:HD11	1.64	0.79
4:L:230:GLU:O	4:L:348:ASP:O	2.00	0.79
4:L:250:ASN:HA	7:O:259:VAL:CG1	2.12	0.79
6:N:478:ASP:O	6:N:482:ASP:HB3	1.80	0.79
2:j:1004:GLN:HA	2:j:1005:ILE:CG2	2.10	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1208:LEU:HD12	2:j:1209:ASP:H	1.48	0.79
5:m:1245:LEU:HD13	5:m:1247:LYS:H	1.47	0.79
6:n:1433:LYS:CG	6:n:1444:ILE:HG21	2.13	0.79
8:p:1049:CYS:O	8:p:1466:THR:HB	1.82	0.79
6:F:433:LYS:CG	6:F:444:ILE:HG21	2.13	0.79
7:G:120:ILE:H	7:G:120:ILE:HD13	1.46	0.79
2:J:3:VAL:O	2:J:5:ILE:CG2	2.30	0.79
2:J:233:ILE:O	2:J:325:VAL:HB	1.82	0.79
2:J:475:ASN:H	2:J:475:ASN:HD22	1.28	0.79
7:O:191:ARG:HE	7:O:191:ARG:CA	1.94	0.79
7:O:455:GLU:HG3	7:O:461:ALA:CB	2.13	0.79
2:b:1469:THR:O	2:b:1470:SER:HB2	1.82	0.79
1:i:1009:ARG:CB	1:i:1010:SER:O	2.30	0.79
1:i:1180:VAL:HG13	1:i:1406:LEU:HD23	1.63	0.79
2:j:1003:VAL:O	2:j:1005:ILE:CG2	2.30	0.79
1:A:180:VAL:HG13	1:A:406:LEU:HD23	1.63	0.79
2:B:3:VAL:O	2:B:5:ILE:CG2	2.30	0.79
2:B:132:LEU:HD21	2:B:495:ARG:HG3	1.64	0.79
2:B:206:SER:HB3	2:B:368:VAL:HG13	1.65	0.79
4:D:524:ILE:HG23	7:G:52:LEU:O	1.82	0.79
2:J:37:LEU:HA	9:J:601:ADP:H5'1	1.65	0.79
7:O:125:ILE:HA	7:O:438:ILE:HG12	1.65	0.79
2:b:1475:ASN:H	2:b:1475:ASN:HD22	1.28	0.79
8:h:1345:GLY:C	8:h:1347:PRO:HD3	2.08	0.79
6:n:1331:VAL:HG12	6:n:1332:THR:HG23	1.65	0.79
7:o:1455:GLU:HG3	7:o:1461:ALA:CB	2.13	0.79
1:A:123:THR:HG21	5:E:68:ARG:HE	1.46	0.79
2:B:70:ASP:HB2	6:F:5:LEU:HD22	1.65	0.79
3:C:41:PRO:HA	3:C:161:THR:HG22	1.63	0.79
3:C:457:ILE:CD1	3:C:467:LEU:HD13	2.11	0.79
6:F:117:ILE:HD12	5:M:34:ASP:O	1.81	0.79
5:M:245:LEU:HD13	5:M:247:LYS:H	1.47	0.79
5:M:253:GLN:CA	5:M:254:MET:CB	2.61	0.79
6:N:53:ILE:O	6:N:53:ILE:CD1	2.30	0.79
6:N:501:PRO:HB3	6:N:506:ILE:CB	2.11	0.79
7:O:378:LEU:HD11	7:O:393:LEU:HD12	1.65	0.79
2:b:1233:ILE:O	2:b:1325:VAL:HB	1.82	0.79
7:g:1030:ILE:HD12	7:g:1109:MET:HB3	1.65	0.79
5:m:1253:GLN:CA	5:m:1254:MET:CB	2.61	0.79
7:o:1191:ARG:NE	7:o:1191:ARG:CA	2.46	0.79
2:B:3:VAL:O	2:B:5:ILE:CG1	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:433:LYS:CG	6:N:444:ILE:HG21	2.13	0.78
8:P:24:ALA:O	8:P:28:ILE:HG12	1.82	0.78
7:g:1120:ILE:HD13	7:g:1120:ILE:H	1.46	0.78
7:g:1378:LEU:HD11	7:g:1393:LEU:HD12	1.65	0.78
7:o:1191:ARG:NE	7:o:1192:ASN:N	2.30	0.78
8:p:1024:ALA:O	8:p:1028:ILE:CG1	2.30	0.78
2:J:3:VAL:O	2:J:5:ILE:CD1	2.30	0.78
7:O:191:ARG:NE	7:O:191:ARG:CA	2.46	0.78
2:b:1132:LEU:HD21	2:b:1495:ARG:HG3	1.64	0.78
4:d:1241:ILE:O	4:d:1299:ASP:HB2	1.83	0.78
7:g:1191:ARG:NE	7:g:1191:ARG:CA	2.46	0.78
2:j:1003:VAL:O	2:j:1005:ILE:CD1	2.30	0.78
4:l:1323:PHE:HA	4:l:1374:THR:HG21	1.64	0.78
4:D:336:ILE:O	4:D:336:ILE:HG22	1.81	0.78
6:F:501:PRO:HB3	6:F:506:ILE:CB	2.12	0.78
2:J:3:VAL:O	2:J:5:ILE:CG1	2.31	0.78
7:O:188:SER:O	7:O:190:ASP:CB	2.28	0.78
7:O:191:ARG:CZ	7:O:192:ASN:H	1.97	0.78
8:P:345:GLY:C	8:P:347:PRO:HD3	2.08	0.78
2:b:1208:LEU:HD12	2:b:1209:ASP:H	1.48	0.78
7:g:1191:ARG:NE	7:g:1192:ASN:N	2.30	0.78
4:l:1521:ILE:CG1	7:o:1062:ILE:HD11	2.13	0.78
1:A:12:THR:HG21	5:E:97:ASP:H	1.47	0.78
4:L:323:PHE:HA	4:L:374:THR:HG21	1.64	0.78
6:N:36:ASN:HA	6:N:57:LYS:HD2	1.66	0.78
3:c:1457:ILE:CD1	3:c:1467:LEU:HD13	2.11	0.78
7:g:1455:GLU:HG3	7:g:1461:ALA:CB	2.13	0.78
8:h:1423:ALA:HA	9:h:1601:ADP:H2'	1.65	0.78
8:H:206:SER:HB2	8:H:381:THR:CG2	2.13	0.78
6:f:1035:THR:CG2	6:f:1042:THR:O	2.32	0.78
6:f:1331:VAL:HG12	6:f:1332:THR:HG23	1.65	0.78
6:f:1478:ASP:O	6:f:1482:ASP:HB3	1.80	0.78
2:j:1263:LYS:NZ	3:k:1266:GLU:HG2	1.99	0.78
5:E:253:GLN:CA	5:E:254:MET:CB	2.61	0.78
5:e:1509:ASN:HB3	5:e:1521:ASP:HB3	1.64	0.78
4:l:1292:ILE:N	4:l:1293:LEU:HA	1.98	0.78
7:o:1030:ILE:HD12	7:o:1109:MET:HB3	1.65	0.78
5:E:166:ASP:HB3	5:E:167:ASP:HB2	1.66	0.78
7:G:191:ARG:NE	7:G:191:ARG:CA	2.46	0.78
1:I:9:ARG:CB	1:I:10:SER:O	2.30	0.78
2:J:329:PHE:O	2:J:329:PHE:HD2	1.67	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:469:THR:O	2:J:470:SER:HB2	1.82	0.78
5:M:401:THR:O	5:M:402:LYS:CE	2.30	0.78
6:N:35:THR:CG2	6:N:42:THR:O	2.32	0.78
3:c:1082:SER:HB2	3:c:1097:ILE:HD11	1.64	0.78
5:E:509:ASN:HB3	5:E:521:ASP:HB3	1.64	0.78
6:F:331:VAL:HG12	6:F:332:THR:HG23	1.65	0.78
6:N:221:HIS:HB2	6:N:224:MET:HG3	1.66	0.78
6:N:331:VAL:HG12	6:N:332:THR:HG23	1.65	0.78
8:h:1049:CYS:O	8:h:1466:THR:HB	1.83	0.78
3:k:1264:GLU:O	3:k:1265:LYS:CG	2.30	0.78
4:D:292:ILE:H	4:D:293:LEU:HA	1.48	0.78
7:G:455:GLU:HG3	7:G:461:ALA:CB	2.13	0.78
8:H:6:PRO:HB3	4:L:71:LEU:CB	2.11	0.78
3:c:1452:ILE:O	3:c:1456:LEU:HB2	1.84	0.78
6:f:1167:THR:HB	6:f:1168:GLU:C	2.09	0.78
6:f:1221:HIS:HB2	6:f:1224:MET:HG3	1.66	0.78
6:f:1501:PRO:HB3	6:f:1506:ILE:CB	2.11	0.78
3:k:1269:TRP:HZ3	6:n:1247:VAL:HB	1.47	0.78
6:n:1221:HIS:HB2	6:n:1224:MET:HG3	1.66	0.78
7:G:212:SER:HB3	7:G:378:LEU:HA	1.66	0.78
8:H:345:GLY:C	8:H:347:PRO:HD3	2.08	0.78
2:J:208:LEU:HD12	2:J:209:ASP:H	1.48	0.78
2:j:1003:VAL:O	2:j:1005:ILE:CG1	2.32	0.78
7:o:1125:ILE:HA	7:o:1438:ILE:HG12	1.65	0.78
4:d:1292:ILE:H	4:d:1293:LEU:HA	1.48	0.77
6:f:1352:GLY:C	6:f:1369:GLU:O	2.27	0.77
6:n:1035:THR:CG2	6:n:1042:THR:O	2.32	0.77
2:B:492:LYS:HE2	2:B:493:LEU:H	1.48	0.77
6:F:36:ASN:HA	6:F:57:LYS:HD2	1.66	0.77
5:e:1073:ILE:HG12	5:e:1083:ILE:HG12	1.66	0.77
2:j:1329:PHE:O	2:j:1329:PHE:HD2	1.67	0.77
4:l:1241:ILE:O	4:l:1299:ASP:HB2	1.83	0.77
4:D:241:ILE:O	4:D:299:ASP:HB2	1.83	0.77
4:L:292:ILE:H	4:L:293:LEU:HA	1.48	0.77
5:M:88:ALA:HB1	5:M:109:LYS:NZ	2.00	0.77
5:M:166:ASP:HB3	5:M:167:ASP:HB2	1.66	0.77
6:N:167:THR:HB	6:N:168:GLU:C	2.09	0.77
2:b:1003:VAL:O	2:b:1005:ILE:CG1	2.32	0.77
4:d:1292:ILE:N	4:d:1293:LEU:HA	1.98	0.77
4:d:1416:ALA:HB3	4:d:1417:PRO:HD3	1.66	0.77
7:g:1212:SER:HB3	7:g:1378:LEU:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1452:ILE:O	3:k:1456:LEU:HB2	1.84	0.77
6:n:1167:THR:HB	6:n:1168:GLU:C	2.09	0.77
6:n:1539:SER:HB3	6:n:1542:LYS:CD	2.15	0.77
6:F:151:LEU:HD12	6:F:175:THR:HG21	1.65	0.77
4:L:241:ILE:O	4:L:299:ASP:HB2	1.83	0.77
4:L:521:ILE:HG23	7:O:51:ILE:HA	1.66	0.77
6:N:395:VAL:O	6:N:399:LEU:HB2	1.85	0.77
2:b:1165:ILE:HG12	6:f:1529:LEU:HD13	1.67	0.77
7:g:1191:ARG:CZ	7:g:1192:ASN:H	1.97	0.77
7:o:1191:ARG:CZ	7:o:1192:ASN:H	1.97	0.77
7:G:191:ARG:CZ	7:G:192:ASN:H	1.97	0.77
7:G:378:LEU:HD11	7:G:393:LEU:HD12	1.65	0.77
2:j:1463:ILE:O	2:j:1467:ILE:N	2.18	0.77
2:j:1492:LYS:HE2	2:j:1493:LEU:H	1.48	0.77
4:l:1416:ALA:HB3	4:l:1417:PRO:HD3	1.66	0.77
3:C:264:GLU:O	3:C:265:LYS:CG	2.30	0.77
6:N:352:GLY:C	6:N:369:GLU:O	2.27	0.77
6:N:539:SER:CB	6:N:542:LYS:CD	2.62	0.77
4:d:1521:ILE:CD1	7:g:1062:ILE:CD1	2.61	0.77
6:f:1036:ASN:HA	6:f:1057:LYS:HD2	1.66	0.77
6:f:1053:ILE:O	6:f:1053:ILE:CD1	2.30	0.77
7:o:1212:SER:HB3	7:o:1378:LEU:HA	1.66	0.77
2:B:208:LEU:HD12	2:B:209:ASP:H	1.48	0.77
2:B:469:THR:O	2:B:470:SER:HB2	1.82	0.77
3:C:42:LYS:O	3:C:459:ASN:HB3	1.85	0.77
3:C:452:ILE:O	3:C:456:LEU:HB2	1.84	0.77
6:F:167:THR:HB	6:F:168:GLU:C	2.09	0.77
1:I:123:THR:HG21	5:M:68:ARG:HE	1.49	0.77
7:O:212:SER:HB3	7:O:378:LEU:HA	1.66	0.77
1:a:1184:LEU:C	1:a:1184:LEU:HD23	2.10	0.77
6:f:1430:ASN:O	6:f:1433:LYS:CB	2.33	0.77
8:h:1237:LYS:HB2	8:h:1314:ASN:HB3	1.65	0.77
3:k:1457:ILE:CD1	3:k:1467:LEU:HD13	2.11	0.77
5:m:1166:ASP:HB3	5:m:1167:ASP:HB2	1.66	0.77
7:o:1378:LEU:HD11	7:o:1393:LEU:HD12	1.65	0.77
8:p:1345:GLY:C	8:p:1347:PRO:HD3	2.08	0.77
2:B:463:ILE:O	2:B:467:ILE:N	2.18	0.77
6:F:352:GLY:C	6:F:369:GLU:O	2.27	0.77
6:F:395:VAL:O	6:F:399:LEU:HB2	1.85	0.77
7:G:125:ILE:HA	7:G:438:ILE:HG12	1.65	0.77
8:P:430:LEU:O	8:P:434:ILE:HG12	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1449:THR:HG22	5:e:1507:ILE:HB	1.65	0.77
4:l:1184:GLU:CA	4:l:1186:SER:O	2.33	0.77
6:n:1395:VAL:O	6:n:1399:LEU:HB2	1.85	0.77
6:n:1539:SER:CB	6:n:1542:LYS:CD	2.62	0.77
7:o:1513:ALA:O	7:o:1516:LEU:CD1	2.33	0.77
2:B:329:PHE:O	2:B:329:PHE:HD2	1.67	0.77
5:E:449:THR:HG22	5:E:507:ILE:HB	1.65	0.77
6:F:35:THR:CG2	6:F:42:THR:O	2.32	0.77
6:F:420:ILE:HA	6:F:423:SER:HB3	1.67	0.77
7:G:30:ILE:HD12	7:G:109:MET:HB3	1.65	0.77
2:J:492:LYS:HE2	2:J:493:LEU:H	1.48	0.77
3:K:452:ILE:O	3:K:456:LEU:HB2	1.84	0.77
6:N:430:ASN:O	6:N:433:LYS:CB	2.33	0.77
1:i:1017:GLY:HA3	5:m:1095:GLU:OE2	1.85	0.77
4:D:292:ILE:N	4:D:293:LEU:HA	1.98	0.77
6:F:46:LEU:N	6:F:54:LYS:O	2.14	0.77
1:I:184:LEU:O	1:I:184:LEU:HD23	1.85	0.77
1:a:1184:LEU:HD23	1:a:1184:LEU:O	1.85	0.77
3:k:1301:VAL:HG23	3:k:1305:ALA:HB2	1.65	0.77
5:m:1073:ILE:HG12	5:m:1083:ILE:HG12	1.67	0.77
6:F:221:HIS:HB2	6:F:224:MET:HG3	1.66	0.76
7:G:513:ALA:O	7:G:516:LEU:CD1	2.33	0.76
4:L:416:ALA:HB3	4:L:417:PRO:HD3	1.66	0.76
6:f:1159:LEU:HA	6:f:1164:ALA:HB2	1.66	0.76
6:f:1420:ILE:HA	6:f:1423:SER:HB3	1.67	0.76
5:m:1449:THR:HG22	5:m:1507:ILE:HB	1.65	0.76
6:n:1159:LEU:HA	6:n:1164:ALA:HB2	1.66	0.76
2:B:70:ASP:CB	6:F:5:LEU:HD22	2.15	0.76
4:D:416:ALA:HB3	4:D:417:PRO:HD3	1.66	0.76
5:E:348:GLY:O	5:E:351:LEU:CD1	2.33	0.76
8:H:430:LEU:O	8:H:434:ILE:HG12	1.84	0.76
4:L:184:GLU:CA	4:L:186:SER:O	2.33	0.76
5:M:509:ASN:OD1	5:M:523:LYS:HB2	1.86	0.76
6:N:420:ILE:HA	6:N:423:SER:HB3	1.67	0.76
8:P:206:SER:HB2	8:P:381:THR:CG2	2.13	0.76
1:a:1350:PHE:HD2	1:a:1351:GLU:N	1.83	0.76
6:f:1526:ASN:HA	6:f:1529:LEU:HD12	1.67	0.76
8:p:1206:SER:HB2	8:p:1381:THR:CG2	2.13	0.76
6:F:539:SER:CB	6:F:542:LYS:CD	2.62	0.76
2:J:412:SER:O	2:J:416:ASP:HB2	1.86	0.76
4:L:292:ILE:N	4:L:293:LEU:HA	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:513:ALA:O	7:O:516:LEU:CD1	2.33	0.76
2:b:1329:PHE:O	2:b:1329:PHE:HD2	1.67	0.76
5:e:1034:ASP:O	6:n:1117:ILE:HD12	1.84	0.76
1:i:1184:LEU:O	1:i:1184:LEU:HD23	1.85	0.76
1:A:431:ILE:HG12	1:A:482:ALA:HB2	1.68	0.76
4:D:334:ALA:HB3	7:G:305:GLN:HB2	1.64	0.76
8:H:237:LYS:HB2	8:H:314:ASN:HB3	1.65	0.76
3:c:1042:LYS:O	3:c:1459:ASN:HB3	1.85	0.76
4:d:1184:GLU:CA	4:d:1186:SER:O	2.33	0.76
8:h:1430:LEU:O	8:h:1434:ILE:HG12	1.84	0.76
2:j:1409:MET:HE2	2:j:1409:MET:HA	1.68	0.76
6:n:1046:LEU:N	6:n:1054:LYS:O	2.14	0.76
6:n:1213:LEU:HD23	6:n:1377:THR:HG23	1.68	0.76
6:n:1352:GLY:C	6:n:1369:GLU:O	2.27	0.76
2:B:412:SER:O	2:B:416:ASP:HB2	1.86	0.76
6:F:430:ASN:O	6:F:433:LYS:CB	2.33	0.76
2:J:463:ILE:O	2:J:467:ILE:N	2.18	0.76
5:M:348:GLY:O	5:M:351:LEU:CD1	2.33	0.76
5:M:449:THR:HG22	5:M:507:ILE:HB	1.65	0.76
6:N:478:ASP:O	6:N:482:ASP:N	2.19	0.76
6:f:1213:LEU:HD23	6:f:1377:THR:HG23	1.68	0.76
2:j:1263:LYS:HZ1	3:k:1266:GLU:CG	1.96	0.76
2:j:1412:SER:O	2:j:1416:ASP:HB2	1.86	0.76
5:m:1348:GLY:O	5:m:1351:LEU:CD1	2.33	0.76
6:n:1159:LEU:HA	6:n:1164:ALA:HB1	1.68	0.76
5:E:509:ASN:OD1	5:E:523:LYS:HB2	1.86	0.76
6:F:526:ASN:HA	6:F:529:LEU:HD12	1.67	0.76
3:K:42:LYS:O	3:K:459:ASN:HB3	1.85	0.76
4:L:36:ARG:HE	4:L:98:ILE:HG23	1.51	0.76
4:L:268:ARG:HA	4:L:271:LEU:HD23	1.68	0.76
2:b:1422:ILE:CG2	2:b:1427:SER:CB	2.63	0.76
2:b:1463:ILE:O	2:b:1467:ILE:N	2.18	0.76
2:b:1492:LYS:HE2	2:b:1493:LEU:H	1.48	0.76
7:g:1238:ASN:N	7:g:1239:PRO:HD3	2.01	0.76
3:k:1042:LYS:O	3:k:1459:ASN:HB3	1.85	0.76
6:n:1053:ILE:O	6:n:1053:ILE:CD1	2.30	0.76
6:n:1478:ASP:O	6:n:1482:ASP:N	2.19	0.76
1:A:169:ILE:HD11	1:A:398:MET:HA	1.68	0.76
1:A:184:LEU:O	1:A:184:LEU:HD23	1.85	0.76
6:F:159:LEU:HA	6:F:164:ALA:HB1	1.68	0.76
7:G:447:GLU:O	7:G:450:PRO:HD2	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:422:ILE:CG2	2:J:427:SER:CB	2.63	0.76
5:M:73:ILE:HG12	5:M:83:ILE:HG12	1.67	0.76
2:b:1473:ASP:OD2	2:b:1476:ASN:O	2.04	0.76
5:e:1088:ALA:HB1	5:e:1109:LYS:NZ	2.00	0.76
6:f:1478:ASP:O	6:f:1482:ASP:N	2.19	0.76
6:f:1539:SER:CB	6:f:1542:LYS:CD	2.62	0.76
1:i:1431:ILE:HG12	1:i:1482:ALA:HB2	1.68	0.76
2:B:201:GLY:H	6:F:86:ILE:HD12	1.49	0.76
2:B:473:ASP:OD2	2:B:476:ASN:O	2.04	0.76
2:J:473:ASP:OD2	2:J:476:ASN:O	2.04	0.76
2:J:493:LEU:HD12	2:J:494:LYS:N	2.01	0.76
7:O:30:ILE:HD12	7:O:109:MET:HB3	1.65	0.76
7:O:471:ALA:O	7:O:475:GLY:HA3	1.85	0.76
8:P:237:LYS:HB2	8:P:314:ASN:HB3	1.65	0.76
1:a:1122:PRO:HG3	5:e:1070:LEU:HD11	1.67	0.76
2:b:1409:MET:HE2	2:b:1409:MET:HA	1.68	0.76
2:b:1493:LEU:HD12	2:b:1494:LYS:N	2.00	0.76
4:d:1036:ARG:HE	4:d:1098:ILE:HG23	1.51	0.76
5:e:1348:GLY:O	5:e:1351:LEU:CD1	2.33	0.76
4:l:1036:ARG:HE	4:l:1098:ILE:HG23	1.51	0.76
7:o:1448:VAL:HG12	7:o:1452:GLN:HE22	1.51	0.76
8:p:1430:LEU:O	8:p:1434:ILE:HG12	1.84	0.76
2:B:422:ILE:CG2	2:B:427:SER:CB	2.63	0.76
5:E:88:ALA:HB1	5:E:109:LYS:NZ	2.00	0.76
1:I:184:LEU:HD23	1:I:184:LEU:C	2.10	0.76
1:I:350:PHE:HD2	1:I:351:GLU:N	1.83	0.76
2:J:409:MET:HE2	2:J:409:MET:HA	1.68	0.76
6:N:159:LEU:HA	6:N:164:ALA:HB1	1.68	0.76
6:N:352:GLY:O	6:N:367:VAL:HG12	1.86	0.76
7:O:447:GLU:O	7:O:450:PRO:HD2	1.86	0.76
7:O:448:VAL:HG12	7:O:452:GLN:HE22	1.51	0.76
7:g:1447:GLU:O	7:g:1450:PRO:HD2	1.86	0.76
1:i:1169:ILE:HD11	1:i:1398:MET:HA	1.68	0.76
2:j:1422:ILE:CG2	2:j:1427:SER:CB	2.63	0.76
2:j:1493:LEU:HD12	2:j:1494:LYS:N	2.00	0.76
6:n:1501:PRO:HB3	6:n:1506:ILE:CB	2.11	0.76
1:A:184:LEU:HD23	1:A:184:LEU:C	2.10	0.76
2:B:72:PRO:HB3	3:C:47:MET:CE	2.13	0.76
6:F:352:GLY:O	6:F:367:VAL:HG12	1.86	0.76
6:N:159:LEU:HA	6:N:164:ALA:HB2	1.66	0.76
2:b:1208:LEU:HD12	2:b:1209:ASP:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1154:ALA:HB2	6:f:1402:VAL:CG2	2.16	0.76
1:i:1350:PHE:HD2	1:i:1351:GLU:N	1.83	0.76
5:m:1088:ALA:HB1	5:m:1109:LYS:NZ	2.00	0.76
6:n:1036:ASN:HA	6:n:1057:LYS:HD2	1.66	0.76
7:o:1447:GLU:O	7:o:1450:PRO:HD2	1.86	0.76
4:D:184:GLU:CA	4:D:186:SER:O	2.33	0.75
2:j:1208:LEU:HD12	2:j:1209:ASP:N	2.01	0.75
2:j:1473:ASP:OD2	2:j:1476:ASN:O	2.04	0.75
8:p:1237:LYS:HB2	8:p:1314:ASN:HB3	1.65	0.75
2:B:72:PRO:HG3	3:C:49:LEU:HD11	1.68	0.75
3:C:129:LEU:HB2	3:C:514:ILE:HD13	1.69	0.75
6:F:213:LEU:HD23	6:F:377:THR:HG23	1.68	0.75
8:H:243:LYS:C	8:H:244:LYS:HG2	2.12	0.75
7:O:238:ASN:N	7:O:239:PRO:HD3	2.01	0.75
5:e:1166:ASP:HB3	5:e:1167:ASP:HB2	1.66	0.75
5:e:1509:ASN:OD1	5:e:1523:LYS:HB2	1.86	0.75
7:g:1044:LEU:HD12	7:g:1452:GLN:HB2	1.68	0.75
7:g:1513:ALA:O	7:g:1516:LEU:CD1	2.33	0.75
4:l:1292:ILE:H	4:l:1293:LEU:HA	1.48	0.75
2:B:409:MET:HE2	2:B:409:MET:HA	1.68	0.75
5:E:73:ILE:HG12	5:E:83:ILE:HG12	1.67	0.75
5:E:187:SER:OG	5:E:429:VAL:HG21	1.86	0.75
6:F:478:ASP:O	6:F:482:ASP:N	2.19	0.75
1:I:350:PHE:C	1:I:351:GLU:OE2	2.30	0.75
1:I:543:THR:HB	5:M:72:LYS:HD3	1.67	0.75
6:N:526:ASN:HA	6:N:529:LEU:HD12	1.68	0.75
8:P:316:TYR:N	8:P:316:TYR:CD2	2.54	0.75
1:a:1350:PHE:C	1:a:1351:GLU:OE2	2.30	0.75
2:b:1232:LEU:HB3	2:b:1283:THR:HG22	1.68	0.75
4:d:1120:ILE:HG12	4:d:1439:ILE:HG21	1.68	0.75
1:i:1456:LEU:O	1:i:1460:LYS:HG2	1.86	0.75
7:o:1044:LEU:HD12	7:o:1452:GLN:HB2	1.68	0.75
1:A:226:CYS:SG	1:A:318:VAL:CG1	2.75	0.75
2:B:208:LEU:HD12	2:B:209:ASP:N	2.01	0.75
2:B:493:LEU:HD12	2:B:494:LYS:N	2.01	0.75
6:F:154:ALA:HB2	6:F:402:VAL:CG2	2.16	0.75
2:J:165:ILE:HG12	6:N:529:LEU:HD13	1.68	0.75
1:a:1221:GLY:HA2	1:a:1382:SER:HB2	1.68	0.75
1:i:1184:LEU:HD23	1:i:1184:LEU:C	2.10	0.75
1:i:1226:CYS:SG	1:i:1318:VAL:CG1	2.75	0.75
1:i:1350:PHE:C	1:i:1351:GLU:OE2	2.30	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1129:LEU:HB2	3:k:1514:ILE:HD13	1.69	0.75
4:l:1336:ILE:O	4:l:1336:ILE:CG2	2.35	0.75
6:n:1043:LEU:HD21	6:n:1161:LYS:HA	1.68	0.75
7:o:1238:ASN:N	7:o:1239:PRO:HD3	2.01	0.75
1:A:221:GLY:HA2	1:A:382:SER:HB2	1.68	0.75
7:G:238:ASN:N	7:G:239:PRO:HD3	2.01	0.75
1:a:1226:CYS:SG	1:a:1318:VAL:CG1	2.75	0.75
5:e:1492:ILE:HD12	5:e:1492:ILE:H	1.52	0.75
6:f:1395:VAL:O	6:f:1399:LEU:HB2	1.85	0.75
7:g:1448:VAL:HG12	7:g:1452:GLN:HE22	1.51	0.75
5:m:1509:ASN:OD1	5:m:1523:LYS:HB2	1.86	0.75
6:n:1003:LEU:HD12	6:n:1005:LEU:CD2	2.17	0.75
2:J:208:LEU:HD12	2:J:209:ASP:N	2.01	0.75
3:K:104:LEU:HD11	3:K:520:LEU:HD12	1.69	0.75
8:P:72:LEU:HD13	8:P:86:VAL:HG22	1.69	0.75
8:P:243:LYS:C	8:P:244:LYS:HG2	2.12	0.75
3:c:1129:LEU:HB2	3:c:1514:ILE:HD13	1.69	0.75
7:g:1471:ALA:O	7:g:1475:GLY:HA3	1.85	0.75
5:m:1492:ILE:H	5:m:1492:ILE:HD12	1.52	0.75
6:n:1209:PHE:HE2	6:n:1376:CYS:SG	2.10	0.75
8:p:1243:LYS:C	8:p:1244:LYS:HG2	2.12	0.75
1:A:8:SER:N	2:J:21:SER:HG	1.84	0.75
1:A:456:LEU:O	1:A:460:LYS:HG2	1.86	0.75
4:D:36:ARG:HE	4:D:98:ILE:HG23	1.51	0.75
5:E:39:LYS:HZ3	6:N:109:ILE:HG13	1.51	0.75
7:G:448:VAL:HG12	7:G:452:GLN:HE22	1.51	0.75
3:K:129:LEU:HB2	3:K:514:ILE:HD13	1.69	0.75
3:K:184:LYS:HE3	3:K:407:MET:HE2	1.69	0.75
6:N:154:ALA:HB2	6:N:402:VAL:CG2	2.16	0.75
6:f:1013:LEU:HD13	6:f:1021:VAL:HG21	1.69	0.75
6:f:1406:LEU:HB3	6:f:1407:LYS:HZ2	1.50	0.75
8:h:1206:SER:HB2	8:h:1381:THR:CG2	2.13	0.75
8:h:1243:LYS:C	8:h:1244:LYS:HG2	2.12	0.75
6:F:53:ILE:O	6:F:53:ILE:CD1	2.30	0.75
6:F:465:ASP:HA	6:F:466:PRO:O	1.86	0.75
6:f:1003:LEU:HD12	6:f:1005:LEU:CD2	2.17	0.75
7:g:1330:VAL:HG12	7:g:1347:GLY:HA3	1.69	0.75
8:h:1204:VAL:CG1	8:h:1405:VAL:HG12	2.16	0.75
3:k:1306:GLN:O	3:k:1310:LEU:HG	1.87	0.75
6:n:1526:ASN:HA	6:n:1529:LEU:HD12	1.68	0.75
6:F:159:LEU:HA	6:F:164:ALA:HB2	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:377:LEU:H	7:G:377:LEU:HD13	1.51	0.75
1:I:431:ILE:HG12	1:I:482:ALA:HB2	1.68	0.75
2:J:295:GLU:C	6:N:337:GLN:HE22	1.94	0.75
1:a:1456:LEU:O	1:a:1460:LYS:HG2	1.86	0.75
6:f:1434:LEU:O	6:f:1437:LYS:C	2.30	0.75
6:n:1420:ILE:HA	6:n:1423:SER:HB3	1.67	0.75
1:A:543:THR:HB	5:E:72:LYS:HD3	1.67	0.74
2:B:295:GLU:HB2	6:F:337:GLN:NE2	2.02	0.74
7:G:33:CYS:SG	7:G:83:LEU:HD11	2.27	0.74
3:K:306:GLN:O	3:K:310:LEU:HG	1.87	0.74
5:M:492:ILE:H	5:M:492:ILE:HD12	1.52	0.74
6:N:13:LEU:HD13	6:N:21:VAL:HG21	1.69	0.74
6:N:395:VAL:O	6:N:399:LEU:CB	2.35	0.74
7:O:413:GLY:HA3	7:O:491:ASN:HD21	1.52	0.74
1:a:1543:THR:HB	5:e:1072:LYS:HD3	1.68	0.74
2:b:1031:ASP:C	2:b:1031:ASP:OD1	2.30	0.74
3:c:1104:LEU:HD11	3:c:1520:LEU:HD12	1.69	0.74
4:d:1336:ILE:O	4:d:1336:ILE:CG2	2.35	0.74
5:e:1187:SER:OG	5:e:1429:VAL:HG21	1.86	0.74
4:l:1268:ARG:HA	4:l:1271:LEU:HD23	1.68	0.74
7:o:1377:LEU:H	7:o:1377:LEU:HD13	1.51	0.74
1:A:350:PHE:C	1:A:351:GLU:OE2	2.30	0.74
3:C:306:GLN:O	3:C:310:LEU:HG	1.87	0.74
4:D:268:ARG:HA	4:D:271:LEU:HD23	1.68	0.74
6:F:117:ILE:HD12	5:M:34:ASP:HA	1.64	0.74
7:G:471:ALA:O	7:G:475:GLY:HA3	1.85	0.74
1:I:115:LEU:HD21	1:I:446:LEU:HD22	1.69	0.74
1:I:221:GLY:HA2	1:I:382:SER:HB2	1.68	0.74
1:I:226:CYS:SG	1:I:318:VAL:CG1	2.75	0.74
7:O:488:ILE:HD12	7:O:488:ILE:H	1.52	0.74
8:P:114:SER:O	8:P:118:ILE:HG13	1.87	0.74
1:a:1063:THR:HG22	1:a:1065:ASP:H	1.52	0.74
2:b:1263:LYS:HZ3	3:c:1266:GLU:HB3	1.52	0.74
8:h:1072:LEU:HD13	8:h:1086:VAL:HG22	1.69	0.74
2:j:1242:LYS:HE2	2:j:1246:PHE:HA	1.69	0.74
3:k:1184:LYS:HE3	3:k:1407:MET:HE2	1.69	0.74
8:p:1072:LEU:HD13	8:p:1086:VAL:HG22	1.69	0.74
2:B:3:VAL:C	2:B:5:ILE:CG2	2.61	0.74
2:B:31:ASP:C	2:B:31:ASP:OD1	2.30	0.74
8:H:72:LEU:HD13	8:H:86:VAL:HG22	1.69	0.74
2:J:3:VAL:C	2:J:5:ILE:CG2	2.61	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:204:VAL:CG1	8:P:405:VAL:HG12	2.16	0.74
1:a:1169:ILE:HD11	1:a:1398:MET:HA	1.68	0.74
2:b:1412:SER:O	2:b:1416:ASP:HB2	1.86	0.74
3:c:1306:GLN:O	3:c:1310:LEU:HG	1.87	0.74
3:k:1269:TRP:CZ3	6:n:1247:VAL:HB	2.21	0.74
4:l:1334:ALA:HB3	7:o:1305:GLN:HB2	1.67	0.74
1:A:350:PHE:HD2	1:A:351:GLU:N	1.83	0.74
1:A:357:LEU:HB2	1:A:378:SER:HB3	1.69	0.74
3:C:104:LEU:HD11	3:C:520:LEU:HD12	1.69	0.74
3:C:184:LYS:HE3	3:C:407:MET:HE2	1.69	0.74
4:D:119:ILE:HG23	4:D:436:GLN:HA	1.68	0.74
2:J:31:ASP:C	2:J:31:ASP:OD1	2.30	0.74
5:M:187:SER:OG	5:M:429:VAL:HG21	1.86	0.74
6:N:434:LEU:O	6:N:437:LYS:C	2.30	0.74
2:b:1003:VAL:C	2:b:1005:ILE:CG2	2.61	0.74
2:b:1451:ASP:O	2:b:1455:LEU:HB2	1.87	0.74
6:f:1155:ARG:CB	6:f:1171:THR:CG2	2.66	0.74
6:n:1154:ALA:HB2	6:n:1402:VAL:CG2	2.16	0.74
8:p:1204:VAL:CG1	8:p:1405:VAL:HG12	2.16	0.74
6:F:43:LEU:HD21	6:F:161:LYS:HA	1.68	0.74
4:L:25:ILE:HD13	4:L:108:GLU:HB2	1.70	0.74
5:M:35:GLN:CD	5:M:36:GLY:HA3	2.13	0.74
4:d:1268:ARG:HA	4:d:1271:LEU:HD23	1.68	0.74
6:f:1465:ASP:HA	6:f:1466:PRO:O	1.86	0.74
7:g:1377:LEU:H	7:g:1377:LEU:HD13	1.51	0.74
8:h:1077:ILE:HD13	8:h:1077:ILE:H	1.53	0.74
8:h:1114:SER:O	8:h:1118:ILE:HG13	1.87	0.74
5:m:1355:ALA:HB3	6:n:1222:PRO:HG2	1.69	0.74
6:n:1155:ARG:CB	6:n:1171:THR:CG2	2.66	0.74
7:o:1033:CYS:SG	7:o:1083:LEU:HD11	2.27	0.74
7:o:1471:ALA:O	7:o:1475:GLY:HA3	1.85	0.74
2:B:451:ASP:O	2:B:455:LEU:HB2	1.88	0.74
6:F:3:LEU:HD12	6:F:5:LEU:CD2	2.17	0.74
6:F:395:VAL:O	6:F:399:LEU:CB	2.35	0.74
6:F:434:LEU:O	6:F:437:LYS:C	2.30	0.74
1:a:1115:LEU:HD21	1:a:1446:LEU:HD22	1.69	0.74
1:a:1431:ILE:HG12	1:a:1482:ALA:HB2	1.68	0.74
6:f:1138:ILE:O	6:f:1138:ILE:HG22	1.87	0.74
2:j:1003:VAL:C	2:j:1005:ILE:CG2	2.61	0.74
2:j:1242:LYS:CE	2:j:1247:GLY:N	2.51	0.74
2:B:4:GLN:O	3:C:72:HIS:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:422:ILE:HG22	2:J:427:SER:HB3	1.68	0.74
6:N:201:HIS:HB3	6:N:381:LYS:NZ	2.03	0.74
7:O:33:CYS:SG	7:O:83:LEU:HD11	2.27	0.74
2:b:1422:ILE:HG22	2:b:1427:SER:HB3	1.68	0.74
5:e:1034:ASP:CA	6:n:1117:ILE:HD11	2.02	0.74
6:f:1201:HIS:HB3	6:f:1381:LYS:NZ	2.03	0.74
1:i:1221:GLY:HA2	1:i:1382:SER:HB2	1.68	0.74
1:i:1357:LEU:HB2	1:i:1378:SER:HB3	1.69	0.74
6:n:1166:LEU:O	6:n:1167:THR:CG2	2.33	0.74
6:n:1434:LEU:O	6:n:1437:LYS:C	2.30	0.74
7:o:1191:ARG:HE	7:o:1191:ARG:CA	1.94	0.74
8:p:1234:GLY:HA2	8:p:1310:LEU:HD11	1.69	0.74
7:G:109:MET:SD	7:G:514:THR:CG2	2.76	0.74
7:G:498:GLU:OE2	9:G:601:ADP:H1'	1.88	0.74
8:H:204:VAL:CG1	8:H:405:VAL:HG12	2.16	0.74
5:M:355:ALA:HB3	6:N:222:PRO:HG2	1.68	0.74
2:b:1411:MET:HB2	2:b:1437:LEU:HD13	1.70	0.74
5:e:1035:GLN:CD	5:e:1036:GLY:HA3	2.13	0.74
2:j:1422:ILE:HG22	2:j:1427:SER:HB3	1.68	0.74
7:o:1109:MET:SD	7:o:1514:THR:CG2	2.76	0.74
2:B:242:LYS:HE2	2:B:246:PHE:HA	1.69	0.74
2:B:422:ILE:HG22	2:B:427:SER:HB3	1.68	0.74
7:G:330:VAL:HG12	7:G:347:GLY:HA3	1.69	0.74
1:I:169:ILE:HD11	1:I:398:MET:HA	1.68	0.74
2:J:451:ASP:O	2:J:455:LEU:HB2	1.88	0.74
7:g:1413:GLY:HA3	7:g:1491:ASN:HD21	1.52	0.74
8:h:1063:ILE:HD12	8:h:1074:GLU:HG3	1.70	0.74
2:j:1031:ASP:C	2:j:1031:ASP:OD1	2.30	0.74
2:j:1360:LYS:C	2:j:1362:GLY:HA2	2.12	0.74
6:n:1395:VAL:O	6:n:1399:LEU:CB	2.35	0.74
3:C:329:ALA:O	3:C:333:GLY:N	2.21	0.74
6:F:13:LEU:HD13	6:F:21:VAL:HG21	1.69	0.74
7:G:488:ILE:HD12	7:G:488:ILE:H	1.52	0.74
1:a:1030:VAL:O	1:a:1033:THR:HG22	1.87	0.74
7:g:1109:MET:SD	7:g:1514:THR:CG2	2.76	0.74
7:g:1479:TYR:HA	7:g:1490:ASP:HA	1.70	0.74
2:j:1451:ASP:O	2:j:1455:LEU:HB2	1.88	0.74
8:p:1114:SER:O	8:p:1118:ILE:HG13	1.88	0.74
2:B:242:LYS:CE	2:B:247:GLY:N	2.50	0.73
3:C:501:GLU:OE2	9:C:1101:ADP:H3'	1.87	0.73
5:E:35:GLN:CD	5:E:36:GLY:HA3	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:138:ILE:O	6:F:138:ILE:HG22	1.87	0.73
7:G:44:LEU:HD12	7:G:452:GLN:HB2	1.68	0.73
1:I:63:THR:HG22	1:I:65:ASP:H	1.52	0.73
1:I:187:VAL:CG2	1:I:383:SER:HB3	2.18	0.73
6:N:155:ARG:CB	6:N:171:THR:CG2	2.66	0.73
7:O:44:LEU:HD12	7:O:452:GLN:HB2	1.68	0.73
4:d:1521:ILE:CA	7:g:1050:ASP:O	2.35	0.73
6:f:1395:VAL:O	6:f:1399:LEU:CB	2.35	0.73
7:g:1033:CYS:SG	7:g:1083:LEU:HD11	2.27	0.73
4:l:1119:ILE:HG23	4:l:1436:GLN:HA	1.68	0.73
6:n:1430:ASN:O	6:n:1433:LYS:CB	2.33	0.73
7:o:1330:VAL:HG12	7:o:1347:GLY:HA3	1.69	0.73
7:o:1413:GLY:HA3	7:o:1491:ASN:HD21	1.52	0.73
1:A:115:LEU:HD21	1:A:446:LEU:HD22	1.69	0.73
2:B:232:LEU:HB3	2:B:283:THR:HG22	1.68	0.73
7:G:413:GLY:HA3	7:G:491:ASN:HD21	1.52	0.73
4:L:120:ILE:HG12	4:L:439:ILE:HG21	1.68	0.73
4:L:336:ILE:O	4:L:336:ILE:CG2	2.35	0.73
6:N:213:LEU:HD23	6:N:377:THR:HG23	1.68	0.73
6:N:465:ASP:HA	6:N:466:PRO:O	1.86	0.73
1:a:1357:LEU:HB2	1:a:1378:SER:HB3	1.69	0.73
2:b:1360:LYS:C	2:b:1362:GLY:HA2	2.12	0.73
8:h:1234:GLY:HA2	8:h:1310:LEU:HD11	1.69	0.73
1:i:1115:LEU:HD21	1:i:1446:LEU:HD22	1.69	0.73
2:j:1232:LEU:HB3	2:j:1283:THR:HG22	1.68	0.73
6:n:1465:ASP:HA	6:n:1466:PRO:O	1.86	0.73
8:p:1316:TYR:HD2	8:p:1316:TYR:N	1.87	0.73
4:D:421:ILE:O	4:D:425:LEU:HG	1.88	0.73
8:H:316:TYR:N	8:H:316:TYR:CD2	2.54	0.73
1:I:456:LEU:O	1:I:460:LYS:HG2	1.86	0.73
6:N:138:ILE:O	6:N:138:ILE:HG22	1.87	0.73
7:O:143:LEU:HD13	7:O:411:ALA:HB3	1.70	0.73
7:O:377:LEU:H	7:O:377:LEU:HD13	1.51	0.73
5:e:1142:HIS:O	5:e:1146:ILE:HG13	1.89	0.73
8:p:1063:ILE:HD12	8:p:1074:GLU:HG3	1.70	0.73
8:p:1163:ILE:HG23	8:p:1179:SER:HB2	1.70	0.73
1:A:30:VAL:O	1:A:33:THR:HG22	1.87	0.73
1:A:63:THR:HG22	1:A:65:ASP:H	1.52	0.73
4:D:336:ILE:O	4:D:336:ILE:CG2	2.35	0.73
8:H:316:TYR:HD2	8:H:316:TYR:N	1.87	0.73
2:J:232:LEU:HB3	2:J:283:THR:HG22	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:360:LYS:C	2:J:362:GLY:HA2	2.12	0.73
4:L:485:ARG:H	4:L:485:ARG:HD2	1.54	0.73
6:N:166:LEU:O	6:N:167:THR:CG2	2.33	0.73
7:O:330:VAL:HG12	7:O:347:GLY:HA3	1.69	0.73
8:P:77:ILE:H	8:P:77:ILE:HD13	1.53	0.73
8:P:163:ILE:HG23	8:P:179:SER:HB2	1.71	0.73
2:b:1250:PHE:HA	6:f:1250:GLY:O	1.88	0.73
6:f:1043:LEU:HD21	6:f:1161:LYS:HA	1.68	0.73
5:m:1142:HIS:O	5:m:1146:ILE:HG13	1.89	0.73
6:n:1138:ILE:O	6:n:1138:ILE:HG22	1.87	0.73
4:D:25:ILE:HD13	4:D:108:GLU:HB2	1.70	0.73
7:G:479:TYR:HA	7:G:490:ASP:HA	1.70	0.73
1:I:267:PRO:HA	1:I:268:GLU:CB	2.19	0.73
1:I:357:LEU:HB2	1:I:378:SER:HB3	1.69	0.73
1:i:1063:THR:HG22	1:i:1065:ASP:H	1.52	0.73
2:j:1164:LYS:O	2:j:1166:LEU:N	2.22	0.73
1:A:187:VAL:CG2	1:A:383:SER:HB3	2.18	0.73
4:D:120:ILE:HG12	4:D:439:ILE:HG21	1.68	0.73
8:H:114:SER:O	8:H:118:ILE:HG13	1.87	0.73
3:K:329:ALA:O	3:K:333:GLY:N	2.21	0.73
4:L:184:GLU:C	4:L:186:SER:O	2.32	0.73
2:b:1242:LYS:HE2	2:b:1246:PHE:HA	1.69	0.73
3:c:1301:VAL:HG23	3:c:1305:ALA:HB2	1.65	0.73
4:l:1120:ILE:HG12	4:l:1439:ILE:HG21	1.68	0.73
7:o:1143:LEU:HD13	7:o:1411:ALA:HB3	1.70	0.73
8:p:1204:VAL:HG21	8:p:1409:LYS:CB	2.19	0.73
2:B:285:ILE:CD1	2:B:289:LEU:HD23	2.19	0.73
4:D:183:ASP:O	4:D:187:LYS:HG2	1.88	0.73
2:J:242:LYS:HE2	2:J:246:PHE:HA	1.69	0.73
5:M:142:HIS:O	5:M:146:ILE:HG13	1.89	0.73
6:N:3:LEU:HD12	6:N:5:LEU:CD2	2.17	0.73
7:O:109:MET:SD	7:O:514:THR:CG2	2.76	0.73
8:P:204:VAL:HG21	8:P:409:LYS:CB	2.19	0.73
1:a:1187:VAL:CG2	1:a:1383:SER:HB3	2.18	0.73
2:b:1164:LYS:O	2:b:1166:LEU:N	2.22	0.73
6:f:1159:LEU:HA	6:f:1164:ALA:HB1	1.68	0.73
1:i:1187:VAL:CG2	1:i:1383:SER:HB3	2.18	0.73
3:k:1104:LEU:HD11	3:k:1520:LEU:HD12	1.69	0.73
5:m:1035:GLN:CD	5:m:1036:GLY:HA3	2.13	0.73
2:B:71:ASN:OD1	2:B:73:ALA:N	2.22	0.73
6:F:155:ARG:CB	6:F:171:THR:CG2	2.66	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:201:HIS:HB3	6:F:381:LYS:NZ	2.03	0.73
6:F:406:LEU:HB3	6:F:407:LYS:HZ2	1.53	0.73
8:H:77:ILE:H	8:H:77:ILE:HD13	1.53	0.73
2:J:242:LYS:CE	2:J:247:GLY:N	2.50	0.73
1:a:1101:VAL:HG22	1:a:1527:SER:HB2	1.71	0.73
2:b:1242:LYS:CE	2:b:1247:GLY:N	2.50	0.73
3:c:1329:ALA:O	3:c:1333:GLY:N	2.21	0.73
6:f:1151:LEU:HD12	6:f:1175:THR:HG21	1.65	0.73
7:g:1488:ILE:HD12	7:g:1488:ILE:H	1.52	0.73
4:l:1025:ILE:HD13	4:l:1108:GLU:HB2	1.70	0.73
4:l:1184:GLU:C	4:l:1186:SER:O	2.32	0.73
5:m:1187:SER:OG	5:m:1429:VAL:HG21	1.86	0.73
4:D:254:VAL:CG2	8:H:265:VAL:HG22	2.18	0.73
2:J:57:THR:HG21	2:J:382:ARG:HD3	1.71	0.73
3:K:518:CYS:O	3:K:522:ARG:HG3	1.89	0.73
4:L:183:ASP:O	4:L:187:LYS:HG2	1.88	0.73
8:P:54:ILE:CG1	8:P:64:ILE:HG12	2.13	0.73
2:b:1071:ASN:OD1	2:b:1073:ALA:N	2.22	0.73
4:d:1183:ASP:O	4:d:1187:LYS:HG2	1.88	0.73
7:g:1143:LEU:HD13	7:g:1411:ALA:HB3	1.70	0.73
8:h:1028:ILE:O	8:h:1032:ILE:HB	1.89	0.73
4:l:1485:ARG:H	4:l:1485:ARG:HD2	1.54	0.73
8:p:1077:ILE:HD13	8:p:1077:ILE:H	1.53	0.73
4:D:258:ARG:HD2	8:H:283:GLN:HE21	1.54	0.73
5:E:142:HIS:O	5:E:146:ILE:HG13	1.89	0.73
2:J:285:ILE:CD1	2:J:289:LEU:HD23	2.19	0.73
6:N:406:LEU:HB3	6:N:407:LYS:HZ2	1.53	0.73
6:N:411:ILE:HG22	6:N:412:ILE:N	2.04	0.73
3:c:1184:LYS:HE3	3:c:1407:MET:HE2	1.69	0.73
4:d:1119:ILE:HG23	4:d:1436:GLN:HA	1.68	0.73
4:d:1523:ASP:O	7:g:1051:ILE:HG23	1.89	0.73
8:h:1204:VAL:HG21	8:h:1409:LYS:CB	2.19	0.73
1:i:1267:PRO:HA	1:i:1268:GLU:CB	2.19	0.73
2:j:1071:ASN:OD1	2:j:1073:ALA:N	2.22	0.73
6:n:1013:LEU:HD13	6:n:1021:VAL:HG21	1.69	0.73
2:B:411:MET:HB2	2:B:437:LEU:HD13	1.70	0.72
4:D:184:GLU:C	4:D:186:SER:O	2.32	0.72
7:G:55:THR:HG21	7:G:72:LEU:HB3	1.70	0.72
1:a:1017:GLY:HA3	5:e:1095:GLU:OE2	1.89	0.72
4:d:1184:GLU:C	4:d:1186:SER:O	2.32	0.72
7:g:1055:THR:HG21	7:g:1072:LEU:HB3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1411:ILE:HG22	6:n:1412:ILE:N	2.04	0.72
7:G:143:LEU:HD13	7:G:411:ALA:HB3	1.70	0.72
1:I:17:GLY:HA3	5:M:95:GLU:OE2	1.88	0.72
5:M:479:ILE:O	5:M:483:LEU:HB2	1.89	0.72
1:a:1267:PRO:HA	1:a:1268:GLU:CB	2.19	0.72
1:a:1350:PHE:HD2	1:a:1351:GLU:H	1.37	0.72
2:b:1329:PHE:C	2:b:1329:PHE:HD2	1.95	0.72
7:g:1056:SER:HA	7:g:1057:ASN:O	1.89	0.72
1:i:1030:VAL:O	1:i:1033:THR:HG22	1.87	0.72
4:l:1183:ASP:O	4:l:1187:LYS:HG2	1.88	0.72
7:o:1126:MET:HE1	7:o:1515:ASN:HA	1.72	0.72
3:C:518:CYS:O	3:C:522:ARG:HG3	1.89	0.72
5:E:479:ILE:O	5:E:483:LEU:HB2	1.89	0.72
5:E:492:ILE:HD11	2:J:115:ILE:HG12	1.71	0.72
6:f:1352:GLY:O	6:f:1353:LEU:C	2.33	0.72
6:n:1201:HIS:HB3	6:n:1381:LYS:NZ	2.03	0.72
6:n:1406:LEU:HB3	6:n:1407:LYS:HZ2	1.54	0.72
7:o:1055:THR:HG21	7:o:1072:LEU:HB3	1.71	0.72
6:F:143:LEU:CD2	6:F:145:ASN:HB3	2.19	0.72
6:F:540:THR:HB	6:F:541:LEU:HD22	1.72	0.72
8:H:63:ILE:HD12	8:H:74:GLU:HG3	1.70	0.72
8:H:234:GLY:HA2	8:H:310:LEU:HD11	1.69	0.72
4:L:421:ILE:O	4:L:425:LEU:HG	1.89	0.72
8:P:28:ILE:O	8:P:32:ILE:HB	1.89	0.72
3:c:1518:CYS:O	3:c:1522:ARG:HG3	1.89	0.72
4:d:1207:THR:HG22	4:d:1380:ARG:H	1.54	0.72
4:d:1485:ARG:H	4:d:1485:ARG:HD2	1.54	0.72
2:j:1072:PRO:HB3	3:k:1047:MET:HE1	1.71	0.72
2:j:1411:MET:HB2	2:j:1437:LEU:HD13	1.70	0.72
3:k:1518:CYS:O	3:k:1522:ARG:HG3	1.89	0.72
4:l:1521:ILE:CD1	7:o:1062:ILE:CD1	2.52	0.72
7:o:1488:ILE:HD12	7:o:1488:ILE:H	1.52	0.72
6:F:352:GLY:O	6:F:353:LEU:C	2.33	0.72
8:H:6:PRO:HG2	4:L:71:LEU:HA	1.71	0.72
1:I:122:PRO:HG3	5:M:70:LEU:HD11	1.71	0.72
4:L:119:ILE:HG23	4:L:436:GLN:HA	1.68	0.72
4:L:524:ILE:HG23	7:O:52:LEU:O	1.88	0.72
6:N:193:MET:CE	6:N:330:LEU:HD11	2.19	0.72
7:O:479:TYR:HA	7:O:490:ASP:HA	1.70	0.72
2:b:1357:SER:O	2:b:1360:LYS:CB	2.38	0.72
4:d:1025:ILE:HD13	4:d:1108:GLU:HB2	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1421:ILE:O	4:d:1425:LEU:HG	1.89	0.72
6:f:1108:PHE:CZ	6:f:1118:ILE:HG13	2.25	0.72
6:f:1193:MET:CE	6:f:1330:LEU:HD11	2.19	0.72
2:j:1198:ILE:O	2:j:1377:LEU:HD21	1.89	0.72
2:j:1357:SER:O	2:j:1360:LYS:CB	2.38	0.72
4:l:1207:THR:HG22	4:l:1380:ARG:H	1.54	0.72
8:p:1316:TYR:N	8:p:1316:TYR:CD2	2.54	0.72
2:B:475:ASN:N	2:B:475:ASN:ND2	2.38	0.72
5:E:492:ILE:H	5:E:492:ILE:HD12	1.52	0.72
6:F:108:PHE:CZ	6:F:118:ILE:HG13	2.25	0.72
2:J:5:ILE:O	3:K:70:VAL:HA	1.88	0.72
2:J:263:LYS:NZ	3:K:266:GLU:CB	2.53	0.72
2:b:1285:ILE:CD1	2:b:1289:LEU:HD23	2.19	0.72
3:c:1291:ARG:N	3:c:1292:PRO:HD3	2.05	0.72
8:h:1163:ILE:HG23	8:h:1179:SER:HB2	1.71	0.72
3:k:1291:ARG:N	3:k:1292:PRO:HD3	2.05	0.72
5:m:1479:ILE:O	5:m:1483:LEU:HB2	1.89	0.72
6:n:1005:LEU:CA	6:n:1006:LEU:CB	2.66	0.72
1:I:30:VAL:O	1:I:33:THR:HG22	1.87	0.72
1:I:156:LEU:HD22	1:I:181:VAL:HG13	1.71	0.72
2:J:242:LYS:HB2	3:K:269:TRP:HZ2	1.55	0.72
2:J:411:MET:HB2	2:J:437:LEU:HD13	1.70	0.72
6:N:540:THR:HB	6:N:541:LEU:HD22	1.72	0.72
8:P:234:GLY:HA2	8:P:310:LEU:HD11	1.69	0.72
2:j:1208:LEU:HD13	2:j:1366:THR:HG22	1.71	0.72
6:n:1352:GLY:O	6:n:1353:LEU:C	2.33	0.72
7:o:1479:TYR:HA	7:o:1490:ASP:HA	1.70	0.72
2:B:164:LYS:O	2:B:166:LEU:N	2.22	0.72
6:F:420:ILE:HG21	6:F:482:ASP:OD1	1.89	0.72
7:G:191:ARG:HD3	7:G:192:ASN:H	1.55	0.72
7:G:232:GLN:HG2	7:G:313:PHE:HA	1.72	0.72
8:H:204:VAL:HG21	8:H:409:LYS:CB	2.19	0.72
2:J:71:ASN:OD1	2:J:73:ALA:N	2.22	0.72
7:O:205:PRO:HA	7:O:386:ILE:HD11	1.71	0.72
7:g:1043:THR:HB	7:g:1099:THR:HG21	1.72	0.72
3:k:1329:ALA:O	3:k:1333:GLY:N	2.21	0.72
4:l:1421:ILE:O	4:l:1425:LEU:HG	1.89	0.72
6:n:1193:MET:CE	6:n:1330:LEU:HD11	2.19	0.72
1:A:267:PRO:HA	1:A:268:GLU:CB	2.19	0.72
2:B:242:LYS:HZ1	2:B:247:GLY:C	1.96	0.72
3:C:114:LYS:HA	3:C:115:ASN:CB	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:322:LYS:HG3	3:C:323:SER:H	1.55	0.72
4:D:207:THR:HG22	4:D:380:ARG:H	1.54	0.72
6:F:411:ILE:HG22	6:F:412:ILE:N	2.04	0.72
2:J:4:GLN:HG2	3:K:72:HIS:HB2	1.72	0.72
2:J:164:LYS:O	2:J:166:LEU:N	2.22	0.72
2:J:198:ILE:O	2:J:377:LEU:HD21	1.89	0.72
3:K:322:LYS:HG3	3:K:323:SER:H	1.55	0.72
6:N:143:LEU:CD2	6:N:145:ASN:HB3	2.19	0.72
3:c:1250:LEU:CD2	3:c:1301:VAL:HB	2.20	0.72
4:d:1521:ILE:HG12	7:g:1062:ILE:HD11	1.72	0.72
2:B:357:SER:O	2:B:360:LYS:CB	2.38	0.72
2:J:357:SER:O	2:J:360:LYS:CB	2.38	0.72
4:L:207:THR:HG22	4:L:380:ARG:H	1.54	0.72
1:a:1008:SER:N	2:j:1021:SER:HG	1.87	0.72
3:c:1114:LYS:HA	3:c:1115:ASN:CB	2.20	0.72
4:d:1404:LEU:O	4:d:1407:GLU:O	2.08	0.72
7:o:1056:SER:HA	7:o:1057:ASN:O	1.90	0.72
3:C:291:ARG:N	3:C:292:PRO:HD3	2.05	0.71
7:O:56:SER:HA	7:O:57:ASN:O	1.90	0.71
2:b:1348:LEU:CG	6:f:1086:ILE:HA	2.20	0.71
6:f:1143:LEU:CD2	6:f:1145:ASN:HB3	2.19	0.71
6:f:1166:LEU:O	6:f:1167:THR:CG2	2.33	0.71
6:f:1352:GLY:O	6:f:1367:VAL:HG12	1.86	0.71
1:i:1101:VAL:HG22	1:i:1527:SER:HB2	1.71	0.71
2:j:1422:ILE:HB	2:j:1427:SER:CB	2.15	0.71
2:j:1475:ASN:N	2:j:1475:ASN:ND2	2.38	0.71
3:k:1322:LYS:HG3	3:k:1323:SER:H	1.55	0.71
4:l:1404:LEU:O	4:l:1407:GLU:O	2.08	0.71
6:F:166:LEU:O	6:F:167:THR:CG2	2.33	0.71
6:F:193:MET:CE	6:F:330:LEU:HD11	2.19	0.71
8:H:28:ILE:O	8:H:32:ILE:HB	1.89	0.71
8:H:163:ILE:HG23	8:H:179:SER:HB2	1.70	0.71
7:g:1191:ARG:HD3	7:g:1192:ASN:H	1.54	0.71
6:n:1203:SER:O	6:n:1205:LYS:N	2.24	0.71
7:o:1205:PRO:HA	7:o:1386:ILE:HD11	1.71	0.71
2:B:251:LYS:H	6:F:251:PHE:HA	1.55	0.71
4:D:404:LEU:O	4:D:407:GLU:O	2.08	0.71
6:N:108:PHE:CZ	6:N:118:ILE:HG13	2.25	0.71
2:b:1005:ILE:O	3:c:1070:VAL:HA	1.91	0.71
2:j:1514:ILE:CD1	3:k:1047:MET:HB3	2.19	0.71
7:G:43:THR:HB	7:G:99:THR:HG21	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:56:SER:HA	7:G:57:ASN:O	1.90	0.71
1:I:250:ASN:CG	1:I:250:ASN:O	2.32	0.71
2:J:373:THR:O	2:J:376:THR:HG22	1.91	0.71
6:N:151:LEU:HD12	6:N:175:THR:HG21	1.66	0.71
8:P:63:ILE:HD12	8:P:74:GLU:HG3	1.70	0.71
6:f:1411:ILE:HG22	6:f:1412:ILE:N	2.04	0.71
1:i:1350:PHE:HD2	1:i:1351:GLU:H	1.37	0.71
2:j:1285:ILE:CD1	2:j:1289:LEU:HD23	2.19	0.71
3:k:1250:LEU:CD2	3:k:1301:VAL:HB	2.20	0.71
4:l:1184:GLU:HA	4:l:1186:SER:O	1.91	0.71
3:K:51:PRO:O	3:K:52:MET:HG3	1.90	0.71
7:O:55:THR:HG21	7:O:72:LEU:HB3	1.71	0.71
5:e:1479:ILE:O	5:e:1483:LEU:HB2	1.89	0.71
6:f:1005:LEU:CA	6:f:1006:LEU:CB	2.66	0.71
1:i:1012:THR:HB	5:m:1096:LEU:HA	1.72	0.71
6:n:1540:THR:HB	6:n:1541:LEU:HD22	1.72	0.71
2:B:4:GLN:HG2	3:C:72:HIS:HB2	1.72	0.71
2:B:345:GLU:O	2:B:351:GLN:CB	2.39	0.71
4:L:210:ILE:O	4:L:375:VAL:CG1	2.39	0.71
5:M:558:GLY:HA2	6:N:48:ASP:HB2	1.72	0.71
6:N:539:SER:HB3	6:N:542:LYS:CD	2.15	0.71
1:a:1250:ASN:CG	1:a:1250:ASN:O	2.32	0.71
2:j:1242:LYS:HZ1	2:j:1247:GLY:C	1.96	0.71
2:j:1373:THR:O	2:j:1376:THR:HG22	1.91	0.71
6:n:1420:ILE:HG21	6:n:1482:ASP:OD1	1.89	0.71
6:n:1543:GLU:O	6:n:1544:THR:C	2.33	0.71
8:p:1054:ILE:CG1	8:p:1064:ILE:HG12	2.13	0.71
1:A:118:ASN:C	1:A:119:LYS:HD2	2.16	0.71
2:B:329:PHE:C	2:B:329:PHE:HD2	1.96	0.71
2:B:360:LYS:C	2:B:362:GLY:HA2	2.12	0.71
3:C:51:PRO:O	3:C:52:MET:HG3	1.90	0.71
5:E:319:ASP:O	5:E:340:LEU:HB2	1.91	0.71
7:G:226:TYR:CE1	7:G:229:PHE:O	2.44	0.71
7:G:232:GLN:HG3	7:G:313:PHE:HA	1.73	0.71
1:I:16:GLY:HA3	1:I:548:ASP:HB3	1.73	0.71
3:K:225:LEU:HD13	3:K:320:VAL:HG13	1.73	0.71
6:N:5:LEU:CB	6:N:6:LEU:O	2.38	0.71
6:N:154:ALA:HB1	6:N:402:VAL:HG23	1.73	0.71
6:N:203:SER:O	6:N:205:LYS:N	2.24	0.71
1:a:1156:LEU:HD22	1:a:1181:VAL:HG13	1.71	0.71
2:b:1345:GLU:O	2:b:1351:GLN:CB	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1475:ASN:H	2:b:1475:ASN:ND2	1.89	0.71
4:d:1207:THR:HG22	4:d:1380:ARG:N	2.06	0.71
6:f:1005:LEU:CB	6:f:1006:LEU:O	2.38	0.71
6:f:1203:SER:O	6:f:1205:LYS:N	2.24	0.71
6:f:1540:THR:HB	6:f:1541:LEU:HD22	1.72	0.71
7:g:1205:PRO:HA	7:g:1386:ILE:HD11	1.71	0.71
8:h:1054:ILE:CG1	8:h:1064:ILE:HG12	2.13	0.71
1:i:1094:ILE:HG22	1:i:1096:ASP:H	1.56	0.71
1:i:1230:SER:O	1:i:1233:MET:HG3	1.91	0.71
6:n:1108:PHE:CZ	6:n:1118:ILE:HG13	2.25	0.71
7:o:1043:THR:HB	7:o:1099:THR:HG21	1.72	0.71
7:o:1232:GLN:HG2	7:o:1313:PHE:HA	1.72	0.71
7:o:1232:GLN:HG3	7:o:1313:PHE:HA	1.73	0.71
8:p:1028:ILE:O	8:p:1032:ILE:HB	1.89	0.71
1:A:12:THR:HG22	1:A:13:LEU:HD23	1.73	0.71
1:A:350:PHE:HD2	1:A:351:GLU:H	1.37	0.71
2:B:57:THR:HG21	2:B:382:ARG:HD3	1.71	0.71
4:D:71:LEU:HA	8:P:6:PRO:HG2	1.73	0.71
4:D:328:LEU:CB	4:D:345:ASP:OD2	2.38	0.71
4:D:485:ARG:H	4:D:485:ARG:HD2	1.54	0.71
6:F:543:GLU:O	6:F:544:THR:C	2.33	0.71
5:M:319:ASP:O	5:M:340:LEU:HB2	1.91	0.71
7:O:226:TYR:CE1	7:O:229:PHE:O	2.44	0.71
7:O:232:GLN:HG2	7:O:313:PHE:HA	1.72	0.71
6:f:1016:ASP:HA	6:f:1019:LEU:CD1	2.20	0.71
1:i:1016:GLY:HA3	1:i:1548:ASP:HB3	1.73	0.71
1:i:1250:ASN:CG	1:i:1250:ASN:O	2.32	0.71
2:j:1459:LEU:HB2	2:j:1472:LEU:HD21	1.73	0.71
1:A:16:GLY:HA3	1:A:548:ASP:HB3	1.73	0.71
1:A:230:SER:O	1:A:233:MET:HG3	1.91	0.71
2:B:373:THR:O	2:B:376:THR:HG22	1.91	0.71
1:I:101:VAL:HG22	1:I:527:SER:HB2	1.71	0.71
1:I:418:VAL:HG12	1:I:419:VAL:H	1.56	0.71
2:J:422:ILE:O	2:J:423:ASP:CG	2.34	0.71
3:K:114:LYS:HA	3:K:115:ASN:CB	2.20	0.71
6:N:352:GLY:O	6:N:353:LEU:C	2.33	0.71
6:N:433:LYS:HG3	6:N:444:ILE:HG21	1.73	0.71
1:a:1016:GLY:HA3	1:a:1548:ASP:HB3	1.73	0.71
7:g:1126:MET:HE1	7:g:1515:ASN:HA	1.72	0.71
7:g:1232:GLN:HG2	7:g:1313:PHE:HA	1.72	0.71
4:l:1134:ILE:CD1	4:l:1424:ARG:HD3	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1143:LEU:CD2	6:n:1145:ASN:HB3	2.19	0.71
1:A:418:VAL:HG12	1:A:419:VAL:H	1.56	0.71
2:B:198:ILE:O	2:B:377:LEU:HD21	1.89	0.71
4:D:46:LYS:HG3	8:H:532:THR:HG23	1.71	0.71
4:L:134:ILE:CD1	4:L:424:ARG:HD3	2.20	0.71
2:b:1422:ILE:O	2:b:1423:ASP:CG	2.34	0.71
3:k:1051:PRO:O	3:k:1052:MET:HG3	1.91	0.71
6:n:1005:LEU:CB	6:n:1006:LEU:O	2.38	0.71
6:F:209:PHE:HE2	6:F:376:CYS:SG	2.10	0.70
2:J:237:THR:H	2:J:287:ARG:HD2	1.56	0.70
2:J:475:ASN:N	2:J:475:ASN:ND2	2.38	0.70
3:K:269:TRP:HZ3	6:N:247:VAL:HB	1.54	0.70
6:N:209:PHE:HE2	6:N:376:CYS:SG	2.10	0.70
7:O:232:GLN:HG3	7:O:313:PHE:HA	1.73	0.70
6:f:1209:PHE:HE2	6:f:1376:CYS:SG	2.10	0.70
8:h:1291:ILE:HD11	8:h:1345:GLY:HA2	1.73	0.70
2:j:1345:GLU:O	2:j:1351:GLN:CB	2.39	0.70
2:j:1475:ASN:H	2:j:1475:ASN:ND2	1.89	0.70
3:k:1114:LYS:HA	3:k:1115:ASN:CB	2.20	0.70
6:n:1151:LEU:HD12	6:n:1175:THR:HG21	1.65	0.70
6:F:5:LEU:CB	6:F:6:LEU:O	2.38	0.70
6:F:203:SER:O	6:F:205:LYS:N	2.24	0.70
1:I:94:ILE:HG22	1:I:96:ASP:H	1.56	0.70
6:N:53:ILE:C	6:N:53:ILE:CD1	2.62	0.70
3:c:1051:PRO:O	3:c:1052:MET:HG3	1.90	0.70
6:f:1245:THR:OG1	6:f:1247:VAL:HG22	1.91	0.70
5:m:1104:LEU:HA	5:m:1107:LEU:HD23	1.73	0.70
2:B:30:GLY:HA2	2:B:33:VAL:HG23	1.73	0.70
2:B:242:LYS:NZ	2:B:247:GLY:H	1.90	0.70
4:D:210:ILE:O	4:D:375:VAL:CG1	2.39	0.70
7:O:126:MET:HE1	7:O:515:ASN:HA	1.72	0.70
8:P:291:ILE:HD11	8:P:345:GLY:HA2	1.74	0.70
2:b:1131:ALA:HB1	2:b:1411:MET:HB3	1.73	0.70
6:f:1433:LYS:HG3	6:f:1444:ILE:HG21	1.73	0.70
3:k:1264:GLU:C	3:k:1265:LYS:CG	2.62	0.70
8:p:1291:ILE:HD11	8:p:1345:GLY:HA2	1.73	0.70
2:B:131:ALA:HB1	2:B:411:MET:HB3	1.73	0.70
2:B:237:THR:H	2:B:287:ARG:HD2	1.56	0.70
2:B:295:GLU:OE1	6:F:339:SER:HB3	1.91	0.70
4:D:482:ILE:HD13	4:D:482:ILE:H	1.57	0.70
6:F:154:ALA:HB1	6:F:402:VAL:HG23	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:118:ASN:C	1:I:119:LYS:HD2	2.16	0.70
3:K:225:LEU:HD13	3:K:320:VAL:CG1	2.22	0.70
6:f:1113:VAL:HB	6:f:1118:ILE:HD11	1.73	0.70
6:f:1433:LYS:HG3	6:f:1444:ILE:HG13	1.74	0.70
1:i:1156:LEU:HD22	1:i:1181:VAL:HG13	1.71	0.70
2:j:1326:VAL:HG22	3:k:1304:LEU:HD22	1.72	0.70
2:j:1422:ILE:O	2:j:1423:ASP:CG	2.34	0.70
3:k:1225:LEU:HD13	3:k:1320:VAL:CG1	2.22	0.70
3:k:1225:LEU:HD13	3:k:1320:VAL:HG13	1.73	0.70
6:n:1245:THR:OG1	6:n:1247:VAL:HG22	1.91	0.70
1:A:250:ASN:CG	1:A:250:ASN:O	2.32	0.70
2:B:475:ASN:H	2:B:475:ASN:ND2	1.89	0.70
6:F:16:ASP:HA	6:F:19:LEU:CD1	2.20	0.70
8:H:333:CYS:SG	8:H:340:PRO:HD3	2.32	0.70
1:I:12:THR:HG22	1:I:13:LEU:HD23	1.73	0.70
6:N:420:ILE:HG21	6:N:482:ASP:OD1	1.89	0.70
7:O:43:THR:HB	7:O:99:THR:HG21	1.72	0.70
3:c:1322:LYS:HG3	3:c:1323:SER:H	1.55	0.70
6:f:1420:ILE:HG21	6:f:1482:ASP:OD1	1.89	0.70
7:g:1056:SER:HA	7:g:1057:ASN:C	2.16	0.70
7:g:1109:MET:HG2	7:g:1514:THR:HG22	1.74	0.70
8:h:1153:LYS:H	8:h:1153:LYS:HD2	1.56	0.70
8:h:1316:TYR:N	8:h:1316:TYR:CD2	2.54	0.70
2:j:1039:PRO:HA	2:j:1163:SER:HA	1.74	0.70
6:n:1154:ALA:HB1	6:n:1402:VAL:HG23	1.73	0.70
6:n:1158:LEU:O	6:n:1158:LEU:CD1	2.39	0.70
2:B:30:GLY:HA2	2:B:33:VAL:CG2	2.22	0.70
3:C:225:LEU:HD13	3:C:320:VAL:CG1	2.22	0.70
2:J:345:GLU:O	2:J:351:GLN:CB	2.39	0.70
4:L:521:ILE:CG2	7:O:52:LEU:H	2.05	0.70
5:M:253:GLN:N	5:M:254:MET:CB	2.54	0.70
5:M:509:ASN:O	5:M:522:MET:N	2.24	0.70
6:N:543:GLU:O	6:N:544:THR:C	2.33	0.70
7:O:396:ALA:O	7:O:399:ILE:HG22	1.92	0.70
2:b:1030:GLY:HA2	2:b:1033:VAL:CG2	2.22	0.70
5:e:1319:ASP:O	5:e:1340:LEU:CB	2.40	0.70
2:j:1237:THR:H	2:j:1287:ARG:HD2	1.56	0.70
3:k:1125:LEU:HD22	3:k:1445:VAL:HG23	1.74	0.70
5:m:1509:ASN:O	5:m:1522:MET:N	2.24	0.70
6:n:1016:ASP:HA	6:n:1019:LEU:CD1	2.20	0.70
7:o:1191:ARG:HD3	7:o:1192:ASN:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:VAL:HG22	1:A:527:SER:HB2	1.71	0.70
4:D:184:GLU:HA	4:D:186:SER:O	1.91	0.70
4:D:207:THR:HG22	4:D:380:ARG:N	2.06	0.70
6:F:245:THR:OG1	6:F:247:VAL:HG22	1.91	0.70
7:G:58:GLN:NE2	8:P:6:PRO:O	2.24	0.70
8:H:6:PRO:CG	4:L:71:LEU:CA	2.69	0.70
2:J:39:PRO:HA	2:J:163:SER:HA	1.74	0.70
4:L:404:LEU:O	4:L:407:GLU:O	2.08	0.70
5:M:104:LEU:HA	5:M:107:LEU:HD23	1.73	0.70
4:d:1169:PHE:O	4:d:1173:LEU:HD13	1.92	0.70
4:d:1210:ILE:O	4:d:1375:VAL:CG1	2.39	0.70
6:f:1539:SER:HB3	6:f:1542:LYS:CD	2.15	0.70
2:j:1057:THR:HG21	2:j:1382:ARG:HD3	1.71	0.70
5:m:1253:GLN:N	5:m:1254:MET:CB	2.54	0.70
7:o:1226:TYR:CE1	7:o:1229:PHE:O	2.44	0.70
2:B:263:LYS:HZ3	3:C:266:GLU:HB3	1.54	0.70
5:E:509:ASN:O	5:E:522:MET:N	2.24	0.70
6:F:37:LEU:HD13	6:F:458:LEU:HA	1.73	0.70
8:H:475:LEU:HB2	8:H:476:PRO:HD3	1.74	0.70
2:J:131:ALA:HB1	2:J:411:MET:HB3	1.73	0.70
3:K:125:LEU:HD22	3:K:445:VAL:HG23	1.74	0.70
3:K:291:ARG:N	3:K:292:PRO:HD3	2.05	0.70
4:L:482:ILE:HD13	4:L:482:ILE:H	1.57	0.70
6:N:7:ASN:OD1	6:N:8:PRO:N	2.25	0.70
6:N:245:THR:OG1	6:N:247:VAL:HG22	1.91	0.70
8:P:333:CYS:SG	8:P:340:PRO:HD3	2.32	0.70
1:a:1094:ILE:HG22	1:a:1096:ASP:H	1.56	0.70
1:a:1418:VAL:HG12	1:a:1419:VAL:H	1.56	0.70
2:b:1021:SER:OG	1:i:1008:SER:N	2.25	0.70
2:b:1030:GLY:HA2	2:b:1033:VAL:HG23	1.73	0.70
2:b:1057:THR:HG21	2:b:1382:ARG:HD3	1.71	0.70
2:j:1242:LYS:NZ	2:j:1247:GLY:H	1.90	0.70
3:k:1299:LYS:CA	3:k:1319:ARG:CB	2.70	0.70
5:m:1251:HIS:O	5:m:1253:GLN:N	2.24	0.70
6:n:1007:ASN:OD1	6:n:1008:PRO:N	2.25	0.70
6:n:1433:LYS:HG3	6:n:1444:ILE:HG21	1.73	0.70
1:A:156:LEU:HD22	1:A:181:VAL:HG13	1.71	0.70
2:B:83:VAL:HG21	3:C:384:GLY:O	1.91	0.70
2:B:422:ILE:O	2:B:423:ASP:CG	2.34	0.70
5:E:319:ASP:O	5:E:340:LEU:CB	2.40	0.70
7:G:126:MET:HE1	7:G:515:ASN:HA	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:12:THR:HB	1:I:13:LEU:HB2	1.74	0.70
2:J:206:SER:HB3	2:J:368:VAL:HG13	1.73	0.70
2:J:242:LYS:NZ	2:J:247:GLY:H	1.90	0.70
4:L:184:GLU:HA	4:L:186:SER:O	1.91	0.70
4:L:207:THR:HG22	4:L:380:ARG:N	2.06	0.70
7:O:121:SER:HB2	7:O:124:LEU:HD23	1.74	0.70
1:a:1118:ASN:C	1:a:1119:LYS:HD2	2.16	0.70
2:b:1198:ILE:O	2:b:1377:LEU:HD21	1.89	0.70
2:b:1459:LEU:HB2	2:b:1472:LEU:HD21	1.73	0.70
6:f:1007:ASN:OD1	6:f:1008:PRO:N	2.25	0.70
7:g:1121:SER:HB2	7:g:1124:LEU:HD23	1.74	0.70
1:i:1012:THR:HB	1:i:1013:LEU:HB2	1.74	0.70
1:i:1418:VAL:HG12	1:i:1419:VAL:H	1.56	0.70
2:j:1251:LYS:H	6:n:1251:PHE:HA	1.57	0.70
2:j:1263:LYS:CE	3:k:1266:GLU:HB3	2.21	0.70
4:l:1166:TYR:O	4:l:1169:PHE:HB3	1.92	0.70
5:m:1319:ASP:O	5:m:1340:LEU:CB	2.40	0.70
6:n:1037:LEU:HD13	6:n:1458:LEU:HA	1.74	0.70
6:n:1113:VAL:HB	6:n:1118:ILE:HD11	1.73	0.70
6:F:113:VAL:HB	6:F:118:ILE:HD11	1.73	0.70
4:L:521:ILE:HG12	7:O:62:ILE:HD11	1.73	0.70
6:N:113:VAL:HB	6:N:118:ILE:HD11	1.73	0.70
1:a:1012:THR:HG22	1:a:1013:LEU:HD23	1.73	0.70
4:d:1184:GLU:HA	4:d:1186:SER:O	1.91	0.70
2:B:263:LYS:NZ	3:C:266:GLU:HB3	2.06	0.69
5:E:253:GLN:N	5:E:254:MET:CB	2.54	0.69
6:F:36:ASN:CB	6:F:57:LYS:NZ	2.24	0.69
6:F:154:ALA:HB2	6:F:402:VAL:HG23	1.73	0.69
7:G:121:SER:HB2	7:G:124:LEU:HD23	1.74	0.69
7:G:205:PRO:HA	7:G:386:ILE:HD11	1.71	0.69
6:N:158:LEU:O	6:N:158:LEU:CD1	2.39	0.69
8:P:475:LEU:HB2	8:P:476:PRO:HD3	1.74	0.69
2:b:1422:ILE:HB	2:b:1427:SER:CB	2.15	0.69
6:f:1037:LEU:HD13	6:f:1458:LEU:HA	1.74	0.69
7:g:1226:TYR:CE1	7:g:1229:PHE:O	2.44	0.69
7:g:1232:GLN:HG3	7:g:1313:PHE:HA	1.73	0.69
1:i:1012:THR:HG22	1:i:1013:LEU:HD23	1.73	0.69
4:l:1210:ILE:O	4:l:1375:VAL:CG1	2.39	0.69
4:l:1254:VAL:CG2	8:p:1265:VAL:HA	2.22	0.69
4:l:1521:ILE:CG2	7:o:1050:ASP:O	2.40	0.69
5:m:1319:ASP:O	5:m:1340:LEU:HB2	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:414:ALA:O	2:B:417:THR:HG22	1.92	0.69
2:B:422:ILE:HB	2:B:427:SER:CB	2.15	0.69
3:C:299:LYS:CA	3:C:319:ARG:CB	2.70	0.69
6:F:433:LYS:HG3	6:F:444:ILE:HG13	1.74	0.69
6:N:37:LEU:HD13	6:N:458:LEU:HA	1.74	0.69
7:O:191:ARG:HD3	7:O:192:ASN:H	1.55	0.69
4:d:1404:LEU:HD22	4:d:1410:LEU:HG	1.74	0.69
7:g:1396:ALA:O	7:g:1399:ILE:HG22	1.92	0.69
8:h:1333:CYS:SG	8:h:1340:PRO:HD3	2.32	0.69
1:i:1118:ASN:C	1:i:1119:LYS:HD2	2.16	0.69
3:k:1250:LEU:HD21	3:k:1301:VAL:HB	1.74	0.69
4:l:1207:THR:HG22	4:l:1380:ARG:N	2.06	0.69
1:A:299:THR:HG23	1:A:326:LEU:HD12	1.74	0.69
2:B:328:THR:O	2:B:329:PHE:CG	2.46	0.69
5:E:104:LEU:HA	5:E:107:LEU:HD23	1.73	0.69
4:L:166:TYR:O	4:L:169:PHE:HB3	1.92	0.69
1:a:1230:SER:O	1:a:1233:MET:HG3	1.91	0.69
1:a:1299:THR:HG23	1:a:1326:LEU:HD12	1.74	0.69
2:b:1311:PHE:O	2:b:1315:GLU:HG2	1.93	0.69
3:c:1299:LYS:CA	3:c:1319:ARG:CB	2.70	0.69
2:j:1131:ALA:HB1	2:j:1411:MET:HB3	1.73	0.69
4:l:1404:LEU:HD22	4:l:1410:LEU:HG	1.74	0.69
6:n:1352:GLY:O	6:n:1367:VAL:HG12	1.86	0.69
3:C:265:LYS:NZ	3:C:268:ASP:CB	2.55	0.69
4:D:254:VAL:HG22	8:H:264:THR:O	1.92	0.69
6:F:321:LYS:HA	6:F:321:LYS:HE3	1.75	0.69
1:I:224:LEU:HD11	1:I:226:CYS:HB2	1.75	0.69
2:J:328:THR:O	2:J:329:PHE:CG	2.45	0.69
6:N:353:LEU:O	6:N:367:VAL:CG1	2.40	0.69
7:O:56:SER:HA	7:O:57:ASN:C	2.17	0.69
8:P:237:LYS:HB3	8:P:314:ASN:HB3	1.63	0.69
2:b:1348:LEU:HD21	6:f:1086:ILE:C	2.17	0.69
2:b:1402:LEU:HD21	2:b:1483:ARG:HG3	1.74	0.69
5:e:1253:GLN:N	5:e:1254:MET:CB	2.54	0.69
6:f:1154:ALA:HB1	6:f:1402:VAL:HG23	1.73	0.69
6:f:1543:GLU:O	6:f:1544:THR:C	2.33	0.69
7:g:1148:THR:O	7:g:1149:SER:CB	2.40	0.69
2:j:1242:LYS:HA	3:k:1269:TRP:HE1	1.58	0.69
2:j:1311:PHE:O	2:j:1315:GLU:HG2	1.93	0.69
7:o:1148:THR:O	7:o:1149:SER:CB	2.40	0.69
8:p:1153:LYS:H	8:p:1153:LYS:HD2	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:416:GLY:HA2	9:C:1101:ADP:H2'	1.74	0.69
4:D:169:PHE:O	4:D:173:LEU:HD13	1.92	0.69
4:L:521:ILE:HG21	7:O:52:LEU:H	1.56	0.69
6:N:433:LYS:HG3	6:N:444:ILE:HG13	1.74	0.69
2:b:1373:THR:O	2:b:1376:THR:HG22	1.91	0.69
4:d:1482:ILE:HD13	4:d:1482:ILE:H	1.57	0.69
5:e:1319:ASP:O	5:e:1340:LEU:HB2	1.91	0.69
6:f:1158:LEU:O	6:f:1158:LEU:CD1	2.39	0.69
2:j:1357:SER:C	2:j:1360:LYS:CB	2.66	0.69
2:j:1414:ALA:O	2:j:1417:THR:HG22	1.92	0.69
3:C:225:LEU:HD13	3:C:320:VAL:HG13	1.73	0.69
4:D:265:LYS:NZ	8:H:343:ARG:HD3	2.07	0.69
1:I:230:SER:O	1:I:233:MET:HG3	1.91	0.69
1:I:299:THR:HG23	1:I:326:LEU:HD12	1.75	0.69
2:J:311:PHE:O	2:J:315:GLU:HG2	1.93	0.69
2:b:1237:THR:H	2:b:1287:ARG:HD2	1.56	0.69
2:b:1328:THR:O	2:b:1329:PHE:CD1	2.46	0.69
4:d:1166:TYR:O	4:d:1169:PHE:HB3	1.92	0.69
6:f:1353:LEU:O	6:f:1367:VAL:CG1	2.40	0.69
6:f:1354:VAL:HG22	6:f:1367:VAL:HG13	1.75	0.69
2:j:1328:THR:O	2:j:1329:PHE:CG	2.45	0.69
6:n:1141:THR:HB	6:n:1409:LYS:HG3	1.75	0.69
2:B:32:LEU:CD1	6:F:532:GLU:OE2	2.41	0.69
4:D:134:ILE:CD1	4:D:424:ARG:HD3	2.20	0.69
4:D:404:LEU:HD22	4:D:410:LEU:HG	1.74	0.69
8:H:153:LYS:H	8:H:153:LYS:HD2	1.56	0.69
2:J:30:GLY:HA2	2:J:33:VAL:CG2	2.22	0.69
2:J:459:LEU:HB2	2:J:472:LEU:HD21	1.73	0.69
7:O:109:MET:HG2	7:O:514:THR:HG22	1.74	0.69
7:O:148:THR:O	7:O:149:SER:CB	2.40	0.69
3:c:1225:LEU:HD13	3:c:1320:VAL:CG1	2.22	0.69
6:f:1167:THR:HA	6:f:1168:GLU:HB3	1.75	0.69
6:n:1167:THR:HA	6:n:1168:GLU:HB3	1.75	0.69
7:o:1396:ALA:O	7:o:1399:ILE:HG22	1.92	0.69
8:p:1335:VAL:HG13	8:p:1379:SER:HB3	1.75	0.69
2:B:32:LEU:HG	6:F:532:GLU:OE1	1.92	0.69
2:B:257:LYS:HA	2:B:260:GLN:HB3	1.75	0.69
4:D:15:GLU:O	4:D:523:ASP:OD2	2.11	0.69
4:D:159:SER:O	4:D:161:LYS:HD3	1.93	0.69
4:D:166:TYR:O	4:D:169:PHE:HB3	1.92	0.69
5:E:166:ASP:HB3	5:E:167:ASP:CB	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:167:THR:HA	6:F:168:GLU:HB3	1.75	0.69
6:F:539:SER:HB3	6:F:542:LYS:CD	2.15	0.69
7:G:148:THR:O	7:G:149:SER:CB	2.40	0.69
8:H:291:ILE:HD11	8:H:345:GLY:HA2	1.73	0.69
8:H:335:VAL:HG13	8:H:379:SER:HB3	1.75	0.69
8:H:346:ALA:N	8:H:347:PRO:CD	2.56	0.69
1:I:350:PHE:HD2	1:I:351:GLU:H	1.37	0.69
2:J:328:THR:O	2:J:329:PHE:CD1	2.46	0.69
2:J:357:SER:C	2:J:360:LYS:CB	2.66	0.69
2:J:475:ASN:H	2:J:475:ASN:ND2	1.89	0.69
5:M:88:ALA:HB1	5:M:109:LYS:HZ1	1.57	0.69
6:N:433:LYS:HG2	6:N:444:ILE:HG21	1.74	0.69
8:P:153:LYS:H	8:P:153:LYS:HD2	1.56	0.69
1:a:1012:THR:HB	1:a:1013:LEU:HB2	1.74	0.69
1:a:1228:VAL:CG2	1:a:1363:GLN:NE2	2.49	0.69
2:b:1357:SER:C	2:b:1360:LYS:CB	2.66	0.69
4:d:1159:SER:O	4:d:1161:LYS:HD3	1.93	0.69
5:e:1104:LEU:HA	5:e:1107:LEU:HD23	1.73	0.69
5:e:1251:HIS:O	5:e:1253:GLN:N	2.25	0.69
5:e:1558:GLY:HA2	6:f:1048:ASP:HB2	1.74	0.69
6:f:1141:THR:HB	6:f:1409:LYS:HG3	1.75	0.69
1:i:1228:VAL:CG2	1:i:1363:GLN:NE2	2.49	0.69
1:i:1517:VAL:C	1:i:1518:LEU:HG	2.18	0.69
2:j:1402:LEU:HD21	2:j:1483:ARG:HG3	1.74	0.69
6:n:1353:LEU:O	6:n:1367:VAL:CG1	2.40	0.69
6:n:1433:LYS:HG3	6:n:1444:ILE:HG13	1.74	0.69
8:p:1333:CYS:SG	8:p:1340:PRO:HD3	2.32	0.69
8:p:1475:LEU:HB2	8:p:1476:PRO:HD3	1.74	0.69
3:C:467:LEU:O	3:C:471:LEU:HB2	1.93	0.69
5:E:544:LEU:HD23	6:F:384:THR:HG21	1.73	0.69
6:F:433:LYS:HG3	6:F:444:ILE:HG21	1.73	0.69
7:G:396:ALA:O	7:G:399:ILE:HG22	1.92	0.69
3:K:299:LYS:CA	3:K:319:ARG:CB	2.70	0.69
5:M:319:ASP:O	5:M:340:LEU:CB	2.40	0.69
6:f:1433:LYS:HG2	6:f:1444:ILE:HG21	1.74	0.69
8:h:1283:GLN:O	8:h:1287:MET:HG2	1.93	0.69
2:j:1030:GLY:HA2	2:j:1033:VAL:HG23	1.73	0.69
2:j:1257:LYS:HA	2:j:1260:GLN:HB3	1.75	0.69
6:n:1330:LEU:HB2	6:n:1375:SER:OG	1.93	0.69
7:o:1109:MET:HG2	7:o:1514:THR:HG22	1.74	0.69
8:p:1283:GLN:O	8:p:1287:MET:HG2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:459:LEU:HB2	2:B:472:LEU:HD21	1.73	0.69
3:C:125:LEU:HD22	3:C:445:VAL:HG23	1.74	0.69
6:F:158:LEU:O	6:F:158:LEU:CD1	2.39	0.69
6:F:209:PHE:HB2	6:F:378:ILE:HB	1.75	0.69
6:F:354:VAL:HG22	6:F:367:VAL:HG13	1.75	0.69
2:J:30:GLY:HA2	2:J:33:VAL:HG23	1.73	0.69
3:K:299:LYS:N	3:K:319:ARG:CB	2.55	0.69
4:L:520:ARG:O	7:O:49:SER:CB	2.36	0.69
2:b:1422:ILE:HG22	2:b:1424:GLY:N	2.08	0.69
5:e:1074:LEU:HG	5:e:1093:GLN:HB3	1.75	0.69
2:j:1329:PHE:C	2:j:1329:PHE:HD2	1.96	0.69
6:n:1433:LYS:HG2	6:n:1444:ILE:HG21	1.74	0.69
8:p:1346:ALA:N	8:p:1347:PRO:CD	2.56	0.69
1:A:94:ILE:HG22	1:A:96:ASP:H	1.56	0.68
1:A:224:LEU:HD11	1:A:226:CYS:HB2	1.75	0.68
2:B:39:PRO:HA	2:B:163:SER:HA	1.74	0.68
6:F:353:LEU:O	6:F:367:VAL:CG1	2.40	0.68
7:G:94:VAL:HG13	7:G:95:GLY:H	1.59	0.68
7:G:450:PRO:HA	7:G:453:LEU:HD12	1.75	0.68
3:K:467:LEU:O	3:K:471:LEU:HB2	1.93	0.68
2:b:1072:PRO:CB	3:c:1047:MET:HE1	2.23	0.68
3:c:1299:LYS:N	3:c:1319:ARG:CB	2.55	0.68
7:g:1237:ASN:C	7:g:1239:PRO:HD3	2.19	0.68
7:g:1450:PRO:HA	7:g:1453:LEU:HD12	1.75	0.68
8:h:1316:TYR:HD2	8:h:1316:TYR:N	1.87	0.68
2:j:1030:GLY:CA	2:j:1033:VAL:HG23	2.24	0.68
1:A:12:THR:HB	1:A:13:LEU:HB2	1.74	0.68
1:A:94:ILE:HG12	1:A:523:SER:HA	1.75	0.68
1:A:517:VAL:C	1:A:518:LEU:HG	2.18	0.68
2:B:328:THR:O	2:B:329:PHE:CD1	2.46	0.68
3:C:299:LYS:N	3:C:319:ARG:CB	2.55	0.68
5:E:251:HIS:O	5:E:253:GLN:N	2.25	0.68
7:G:56:SER:HA	7:G:57:ASN:C	2.16	0.68
2:J:83:VAL:HG21	3:K:384:GLY:O	1.92	0.68
2:J:465:ASN:C	2:J:465:ASN:OD1	2.36	0.68
4:L:367:ARG:C	4:L:369:ASN:H	2.01	0.68
5:M:74:LEU:HG	5:M:93:GLN:HB3	1.75	0.68
6:N:154:ALA:HB2	6:N:402:VAL:HG23	1.73	0.68
8:P:346:ALA:N	8:P:347:PRO:CD	2.56	0.68
1:a:1066:GLY:O	1:a:1069:ILE:HG22	1.94	0.68
1:a:1540:ARG:O	5:e:1070:LEU:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1242:LYS:NZ	2:b:1247:GLY:H	1.89	0.68
2:b:1328:THR:O	2:b:1329:PHE:CG	2.45	0.68
6:f:1330:LEU:HB2	6:f:1375:SER:OG	1.93	0.68
7:g:1042:PRO:O	7:g:1048:GLY:CA	2.40	0.68
8:h:1475:LEU:HB2	8:h:1476:PRO:HD3	1.74	0.68
1:i:1224:LEU:HD11	1:i:1226:CYS:HB2	1.75	0.68
2:j:1005:ILE:O	3:k:1071:ALA:N	2.25	0.68
2:j:1030:GLY:HA2	2:j:1033:VAL:CG2	2.22	0.68
2:j:1328:THR:O	2:j:1329:PHE:CD1	2.46	0.68
6:n:1501:PRO:CB	6:n:1506:ILE:HB	2.17	0.68
6:F:420:ILE:HG22	6:F:482:ASP:OD1	1.94	0.68
2:J:30:GLY:CA	2:J:33:VAL:HG23	2.24	0.68
4:L:169:PHE:O	4:L:173:LEU:HD13	1.92	0.68
8:P:6:PRO:HB3	8:P:7:GLN:HA	1.75	0.68
8:P:316:TYR:HD2	8:P:316:TYR:N	1.87	0.68
2:b:1414:ALA:O	2:b:1417:THR:HG22	1.92	0.68
3:c:1467:LEU:O	3:c:1471:LEU:HB2	1.93	0.68
6:f:1321:LYS:HA	6:f:1321:LYS:HE3	1.75	0.68
6:f:1420:ILE:HG22	6:f:1482:ASP:OD1	1.94	0.68
2:j:1295:GLU:C	6:n:1337:GLN:HE22	2.00	0.68
3:k:1265:LYS:NZ	3:k:1268:ASP:CB	2.55	0.68
6:n:1321:LYS:HA	6:n:1321:LYS:HE3	1.75	0.68
7:o:1237:ASN:C	7:o:1239:PRO:HD3	2.18	0.68
8:p:1006:PRO:HB3	8:p:1007:GLN:HA	1.76	0.68
1:A:66:GLY:O	1:A:69:ILE:HG22	1.94	0.68
4:D:71:LEU:CA	8:P:6:PRO:CG	2.71	0.68
2:J:4:GLN:CB	2:J:5:ILE:HG12	2.24	0.68
2:J:329:PHE:C	2:J:329:PHE:HD2	1.95	0.68
2:J:422:ILE:HG22	2:J:424:GLY:N	2.08	0.68
4:L:159:SER:O	4:L:161:LYS:HD3	1.93	0.68
4:L:404:LEU:HD22	4:L:410:LEU:HG	1.74	0.68
6:N:141:THR:HB	6:N:409:LYS:HG3	1.75	0.68
6:N:330:LEU:HB2	6:N:375:SER:OG	1.93	0.68
2:b:1475:ASN:ND2	2:b:1475:ASN:N	2.38	0.68
3:c:1335:THR:HB	8:h:1237:LYS:HE2	1.75	0.68
4:d:1181:ILE:HD13	4:d:1373:PRO:O	1.94	0.68
1:i:1299:THR:HG23	1:i:1326:LEU:HD12	1.74	0.68
3:k:1299:LYS:N	3:k:1319:ARG:CB	2.55	0.68
3:k:1467:LEU:O	3:k:1471:LEU:HB2	1.93	0.68
4:l:1367:ARG:C	4:l:1369:ASN:H	2.01	0.68
2:B:30:GLY:CA	2:B:33:VAL:HG23	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:357:SER:C	2:B:360:LYS:CB	2.66	0.68
4:D:77:MET:HE1	7:G:384:GLN:HB2	1.76	0.68
5:E:74:LEU:HG	5:E:93:GLN:HB3	1.75	0.68
6:F:141:THR:HB	6:F:409:LYS:HG3	1.75	0.68
6:F:233:VAL:HG13	6:F:351:SER:HB3	1.76	0.68
6:F:433:LYS:HG2	6:F:444:ILE:HG21	1.74	0.68
7:G:109:MET:HG2	7:G:514:THR:HG22	1.74	0.68
2:J:285:ILE:HD11	2:J:289:LEU:CD2	2.24	0.68
2:J:402:LEU:HD21	2:J:483:ARG:HG3	1.74	0.68
6:N:354:VAL:HG22	6:N:367:VAL:HG13	1.75	0.68
1:a:1094:ILE:HG12	1:a:1523:SER:HA	1.75	0.68
3:c:1225:LEU:HD13	3:c:1320:VAL:HG13	1.73	0.68
6:f:1224:MET:CE	6:f:1316:ALA:H	2.06	0.68
1:i:1066:GLY:O	1:i:1069:ILE:HG22	1.94	0.68
7:o:1056:SER:HA	7:o:1057:ASN:C	2.17	0.68
7:o:1516:LEU:HD11	7:o:1517:ILE:HG12	1.75	0.68
6:F:7:ASN:OD1	6:F:8:PRO:N	2.25	0.68
7:G:237:ASN:C	7:G:239:PRO:HD3	2.18	0.68
8:H:283:GLN:O	8:H:287:MET:HG2	1.93	0.68
8:P:24:ALA:HB2	8:P:531:ALA:HB1	1.76	0.68
5:e:1166:ASP:HB3	5:e:1167:ASP:CB	2.23	0.68
6:f:1170:LEU:O	6:f:1173:ILE:HG22	1.94	0.68
8:h:1249:VAL:HG22	8:h:1300:VAL:HB	1.75	0.68
2:j:1465:ASN:C	2:j:1465:ASN:OD1	2.36	0.68
4:l:1169:PHE:O	4:l:1173:LEU:HD13	1.92	0.68
4:l:1178:VAL:HG11	4:l:1401:ILE:HD11	1.76	0.68
2:B:402:LEU:HD21	2:B:483:ARG:HG3	1.74	0.68
4:D:178:VAL:HG11	4:D:401:ILE:HD11	1.76	0.68
4:D:461:ASN:HB3	4:D:464:LYS:HG2	1.75	0.68
8:H:249:VAL:HG22	8:H:300:VAL:HB	1.75	0.68
2:J:295:GLU:OE2	6:N:338:ASN:HB2	1.92	0.68
2:J:414:ALA:O	2:J:417:THR:HG22	1.92	0.68
5:M:166:ASP:HB3	5:M:167:ASP:CB	2.23	0.68
8:h:1346:ALA:N	8:h:1347:PRO:CD	2.56	0.68
2:j:1019:ARG:NH2	2:j:1512:ASP:H	1.92	0.68
4:l:1159:SER:O	4:l:1161:LYS:HD3	1.93	0.68
6:n:1154:ALA:HB2	6:n:1402:VAL:HG23	1.73	0.68
6:n:1209:PHE:HB2	6:n:1378:ILE:HB	1.75	0.68
7:o:1121:SER:HB2	7:o:1124:LEU:HD23	1.74	0.68
1:A:289:ILE:HA	1:A:293:ALA:HB2	1.76	0.68
2:B:19:ARG:NH2	2:B:512:ASP:H	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:181:ILE:HD13	4:D:373:PRO:O	1.94	0.68
4:L:178:VAL:HG11	4:L:401:ILE:HD11	1.76	0.68
6:N:154:ALA:O	6:N:157:SER:OG	2.12	0.68
6:N:224:MET:CE	6:N:316:ALA:H	2.06	0.68
3:c:1125:LEU:HD22	3:c:1445:VAL:HG23	1.74	0.68
4:d:1015:GLU:O	4:d:1523:ASP:OD2	2.11	0.68
4:d:1367:ARG:C	4:d:1369:ASN:H	2.01	0.68
4:d:1461:ASN:HB3	4:d:1464:LYS:HG2	1.75	0.68
6:f:1154:ALA:HB2	6:f:1402:VAL:HG23	1.73	0.68
8:p:1249:VAL:HG22	8:p:1300:VAL:HB	1.75	0.68
2:B:465:ASN:C	2:B:465:ASN:OD1	2.36	0.68
8:H:131:TYR:HD2	8:H:452:PHE:HD2	1.42	0.68
8:H:291:ILE:HD12	8:H:347:PRO:CG	2.24	0.68
1:I:517:VAL:C	1:I:518:LEU:HG	2.18	0.68
3:K:250:LEU:HG	3:K:301:VAL:CB	2.23	0.68
4:L:15:GLU:O	4:L:523:ASP:OD2	2.11	0.68
1:a:1517:VAL:C	1:a:1518:LEU:HG	2.18	0.68
3:c:1250:LEU:HD21	3:c:1301:VAL:HB	1.74	0.68
3:c:1265:LYS:NZ	3:c:1268:ASP:CB	2.55	0.68
4:d:1134:ILE:CD1	4:d:1424:ARG:HD3	2.20	0.68
4:d:1178:VAL:HG11	4:d:1401:ILE:HD11	1.76	0.68
6:f:1209:PHE:HB2	6:f:1378:ILE:HB	1.75	0.68
8:h:1024:ALA:HB2	8:h:1531:ALA:HB1	1.76	0.68
1:i:1289:ILE:HA	1:i:1293:ALA:HB2	1.76	0.68
4:l:1482:ILE:HD13	4:l:1482:ILE:H	1.57	0.68
7:o:1282:LEU:HD22	7:o:1307:PHE:HB3	1.76	0.68
3:C:250:LEU:HG	3:C:301:VAL:CB	2.23	0.68
5:E:34:ASP:O	6:N:117:ILE:HD12	1.94	0.68
6:F:43:LEU:HD23	6:F:57:LYS:CB	2.20	0.68
3:K:332:THR:HB	3:K:349:GLY:HA3	1.76	0.68
4:L:521:ILE:HG23	7:O:50:ASP:O	1.94	0.68
7:O:237:ASN:C	7:O:239:PRO:HD3	2.18	0.68
7:O:409:ILE:HG22	7:O:410:VAL:H	1.59	0.68
8:P:291:ILE:HD12	8:P:347:PRO:CG	2.24	0.68
2:b:1030:GLY:CA	2:b:1033:VAL:HG23	2.24	0.68
8:h:1291:ILE:HD12	8:h:1347:PRO:CG	2.24	0.68
2:B:285:ILE:HD11	2:B:289:LEU:CD2	2.24	0.67
4:D:367:ARG:C	4:D:369:ASN:H	2.01	0.67
8:H:6:PRO:HB3	8:H:7:GLN:HA	1.76	0.67
1:I:66:GLY:O	1:I:69:ILE:HG22	1.94	0.67
2:J:257:LYS:HA	2:J:260:GLN:HB3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:167:THR:HA	6:N:168:GLU:HB3	1.75	0.67
7:O:42:PRO:O	7:O:48:GLY:CA	2.40	0.67
7:O:94:VAL:HG13	7:O:95:GLY:H	1.59	0.67
1:a:1224:LEU:HD11	1:a:1226:CYS:HB2	1.75	0.67
2:b:1039:PRO:HA	2:b:1163:SER:HA	1.74	0.67
5:e:1039:LYS:NZ	6:n:1109:ILE:HG13	2.09	0.67
6:f:1233:VAL:HG13	6:f:1351:SER:HB3	1.76	0.67
7:g:1241:ILE:HB	7:g:1330:VAL:HG11	1.77	0.67
7:g:1413:GLY:HA2	9:g:1601:ADP:C2	2.29	0.67
8:h:1131:TYR:HD2	8:h:1452:PHE:HD2	1.42	0.67
1:i:1094:ILE:HG12	1:i:1523:SER:HA	1.75	0.67
2:j:1045:LEU:HB2	6:n:1533:LEU:CB	2.24	0.67
2:j:1422:ILE:HG22	2:j:1424:GLY:N	2.08	0.67
6:n:1170:LEU:O	6:n:1173:ILE:HG22	1.94	0.67
8:p:1291:ILE:HD12	8:p:1347:PRO:CG	2.24	0.67
2:B:311:PHE:O	2:B:315:GLU:HG2	1.93	0.67
3:C:332:THR:HB	3:C:349:GLY:HA3	1.76	0.67
5:E:88:ALA:HB1	5:E:109:LYS:HZ1	1.60	0.67
6:F:203:SER:C	6:F:205:LYS:H	2.03	0.67
6:F:330:LEU:HB2	6:F:375:SER:OG	1.93	0.67
6:F:352:GLY:O	6:F:367:VAL:HG11	1.91	0.67
7:G:241:ILE:HB	7:G:330:VAL:HG11	1.77	0.67
7:G:448:VAL:HG12	7:G:452:GLN:NE2	2.09	0.67
7:G:492:PHE:HA	7:G:497:TRP:HE1	1.59	0.67
6:N:423:SER:O	6:N:427:ARG:HG3	1.94	0.67
1:i:1064:ASN:ND2	1:i:1166:SER:O	2.27	0.67
4:l:1100:THR:HG22	4:l:1515:VAL:HG13	1.77	0.67
5:m:1088:ALA:HB1	5:m:1109:LYS:HZ1	1.57	0.67
6:n:1151:LEU:HB3	6:n:1175:THR:OG1	1.95	0.67
6:n:1423:SER:O	6:n:1427:ARG:HG3	1.94	0.67
6:n:1485:GLU:HB3	6:n:1488:TYR:CB	2.24	0.67
7:o:1042:PRO:O	7:o:1048:GLY:CA	2.40	0.67
2:B:243:VAL:HG12	2:B:245:ILE:H	1.59	0.67
3:C:94:THR:HG23	10:C:1102:BEF:F1	1.82	0.67
4:D:241:ILE:H	4:D:241:ILE:HD12	1.60	0.67
6:F:170:LEU:O	6:F:173:ILE:HG22	1.94	0.67
1:I:64:ASN:ND2	1:I:166:SER:O	2.27	0.67
1:I:289:ILE:HA	1:I:293:ALA:HB2	1.76	0.67
2:J:246:PHE:CD1	2:J:246:PHE:C	2.73	0.67
6:N:501:PRO:CB	6:N:506:ILE:HB	2.17	0.67
7:O:241:ILE:HB	7:O:330:VAL:HG11	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:450:PRO:HA	7:O:453:LEU:HD12	1.75	0.67
8:P:249:VAL:HG22	8:P:300:VAL:HB	1.76	0.67
2:b:1257:LYS:HA	2:b:1260:GLN:HB3	1.75	0.67
2:b:1465:ASN:C	2:b:1465:ASN:OD1	2.36	0.67
4:d:1100:THR:HG22	4:d:1515:VAL:HG13	1.77	0.67
6:f:1203:SER:C	6:f:1205:LYS:H	2.03	0.67
7:g:1282:LEU:HD22	7:g:1307:PHE:HB3	1.76	0.67
7:g:1317:ARG:O	7:g:1317:ARG:HG3	1.94	0.67
7:g:1448:VAL:HG12	7:g:1452:GLN:NE2	2.09	0.67
8:h:1335:VAL:HG13	8:h:1379:SER:HB3	1.75	0.67
1:i:1012:THR:CG2	5:m:1097:ASP:H	2.06	0.67
2:j:1255:THR:HA	2:j:1258:LEU:HD13	1.77	0.67
4:l:1015:GLU:O	4:l:1523:ASP:OD2	2.11	0.67
2:B:237:THR:N	2:B:287:ARG:HG3	2.10	0.67
2:B:422:ILE:HG22	2:B:424:GLY:N	2.08	0.67
8:H:54:ILE:CG1	8:H:64:ILE:HG12	2.13	0.67
1:I:94:ILE:HG12	1:I:523:SER:HA	1.75	0.67
2:J:422:ILE:HB	2:J:427:SER:CB	2.15	0.67
6:N:209:PHE:HB2	6:N:378:ILE:HB	1.75	0.67
8:P:283:GLN:O	8:P:287:MET:HG2	1.93	0.67
2:b:1285:ILE:HD11	2:b:1289:LEU:CD2	2.24	0.67
3:c:1332:THR:HB	3:c:1349:GLY:HA3	1.76	0.67
2:j:1263:LYS:HZ1	3:k:1266:GLU:CB	2.03	0.67
5:m:1074:LEU:HG	5:m:1093:GLN:HB3	1.75	0.67
7:o:1090:GLN:CG	7:o:1101:VAL:HG21	2.24	0.67
7:o:1241:ILE:HB	7:o:1330:VAL:HG11	1.77	0.67
7:o:1317:ARG:O	7:o:1317:ARG:HG3	1.95	0.67
1:A:64:ASN:ND2	1:A:166:SER:O	2.27	0.67
2:B:295:GLU:OE2	6:F:338:ASN:HB2	1.93	0.67
4:D:521:ILE:CG2	7:G:50:ASP:O	2.42	0.67
5:E:34:ASP:CA	6:N:117:ILE:CD1	2.66	0.67
7:G:162:ALA:HB3	7:G:179:VAL:HG13	1.77	0.67
4:L:100:THR:HG22	4:L:515:VAL:HG13	1.77	0.67
6:N:321:LYS:HA	6:N:321:LYS:HE3	1.75	0.67
1:a:1258:MET:HA	1:a:1258:MET:HE3	1.77	0.67
2:b:1037:LEU:HA	9:b:1601:ADP:H5'1	1.76	0.67
2:b:1208:LEU:HD13	2:b:1366:THR:HG22	1.76	0.67
2:b:1475:ASN:HD22	2:b:1475:ASN:N	1.92	0.67
5:m:1337:GLN:C	5:m:1338:ASN:HD22	2.03	0.67
6:n:1043:LEU:HD23	6:n:1057:LYS:CB	2.20	0.67
6:n:1083:GLN:HG3	6:n:1094:VAL:CG2	2.18	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1450:PRO:HA	7:o:1453:LEU:HD12	1.75	0.67
1:A:258:MET:HA	1:A:258:MET:HE3	1.77	0.67
4:D:69:ALA:O	8:H:15:LYS:HE2	1.94	0.67
5:E:337:GLN:C	5:E:338:ASN:HD22	2.03	0.67
8:H:334:ARG:HG2	8:H:380:ARG:HB3	1.77	0.67
1:I:66:GLY:H	1:I:99:THR:HG22	1.60	0.67
2:J:19:ARG:NH2	2:J:512:ASP:H	1.92	0.67
3:K:108:ALA:N	3:K:109:PRO:HD2	2.10	0.67
5:M:251:HIS:O	5:M:253:GLN:N	2.24	0.67
6:N:485:GLU:HB3	6:N:488:TYR:CB	2.24	0.67
3:c:1108:ALA:N	3:c:1109:PRO:HD2	2.10	0.67
4:d:1334:ALA:HB3	7:g:1305:GLN:HB2	1.76	0.67
2:j:1263:LYS:HZ3	3:k:1266:GLU:CB	2.00	0.67
4:l:1077:MET:HE1	7:o:1384:GLN:HB2	1.76	0.67
7:o:1162:ALA:HB3	7:o:1179:VAL:HG13	1.77	0.67
7:o:1409:ILE:HG22	7:o:1410:VAL:H	1.59	0.67
1:A:66:GLY:H	1:A:99:THR:HG22	1.60	0.67
2:B:246:PHE:CD1	2:B:246:PHE:C	2.73	0.67
4:D:100:THR:HG22	4:D:515:VAL:HG13	1.77	0.67
6:F:151:LEU:HB3	6:F:175:THR:OG1	1.95	0.67
7:G:226:TYR:CE1	7:G:229:PHE:C	2.73	0.67
7:G:282:LEU:HD22	7:G:307:PHE:HB3	1.76	0.67
1:I:348:GLU:CB	1:I:349:THR:HA	2.25	0.67
6:N:170:LEU:O	6:N:173:ILE:HG22	1.94	0.67
7:O:492:PHE:HA	7:O:497:TRP:HE1	1.59	0.67
8:P:335:VAL:HG13	8:P:379:SER:HB3	1.75	0.67
2:b:1004:GLN:CB	2:b:1005:ILE:HG12	2.24	0.67
3:c:1057:LEU:N	3:c:1057:LEU:CD2	2.57	0.67
6:f:1151:LEU:HB3	6:f:1175:THR:OG1	1.95	0.67
1:i:1123:THR:HG21	5:m:1068:ARG:HE	1.57	0.67
2:j:1004:GLN:CB	2:j:1005:ILE:HG12	2.24	0.67
2:j:1285:ILE:HD11	2:j:1289:LEU:CD2	2.24	0.67
5:m:1166:ASP:HB3	5:m:1167:ASP:CB	2.23	0.67
6:n:1233:VAL:HG13	6:n:1351:SER:HB3	1.75	0.67
6:n:1354:VAL:HG22	6:n:1367:VAL:HG13	1.75	0.67
2:B:34:LYS:O	2:B:36:THR:N	2.27	0.67
4:D:185:ASN:H	4:D:186:SER:C	2.02	0.67
6:F:485:GLU:HB3	6:F:488:TYR:CB	2.25	0.67
4:L:181:ILE:HD13	4:L:373:PRO:O	1.94	0.67
4:L:461:ASN:HB3	4:L:464:LYS:HG2	1.75	0.67
6:N:16:ASP:HA	6:N:19:LEU:CD1	2.20	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:280:LEU:HD23	6:N:280:LEU:H	1.60	0.67
7:O:282:LEU:HD22	7:O:307:PHE:HB3	1.76	0.67
5:e:1509:ASN:O	5:e:1522:MET:N	2.24	0.67
6:f:1280:LEU:HD23	6:f:1280:LEU:H	1.59	0.67
6:f:1485:GLU:HB3	6:f:1488:TYR:CB	2.24	0.67
3:k:1108:ALA:N	3:k:1109:PRO:HD2	2.10	0.67
4:l:1521:ILE:HG21	7:o:1052:LEU:H	1.60	0.67
8:p:1131:TYR:HD2	8:p:1452:PHE:HD2	1.42	0.67
4:D:528:ARG:H	4:D:528:ARG:HE	1.43	0.67
6:F:53:ILE:C	6:F:53:ILE:CD1	2.62	0.67
6:F:187:ASP:O	6:F:188:ASN:CB	2.43	0.67
6:F:423:SER:O	6:F:427:ARG:HG3	1.94	0.67
8:H:6:PRO:O	7:O:58:GLN:NE2	2.28	0.67
6:N:187:ASP:O	6:N:188:ASN:CB	2.43	0.67
7:O:162:ALA:HB3	7:O:179:VAL:HG13	1.77	0.67
1:a:1054:VAL:HG12	1:a:1056:ASP:H	1.60	0.67
2:b:1023:PHE:HA	2:b:1103:LEU:HD13	1.77	0.67
6:f:1043:LEU:HD23	6:f:1057:LYS:CB	2.20	0.67
6:f:1331:VAL:O	6:f:1332:THR:OG1	2.12	0.67
6:f:1423:SER:O	6:f:1427:ARG:HG3	1.94	0.67
7:g:1226:TYR:CE1	7:g:1229:PHE:C	2.73	0.67
1:i:1348:GLU:CB	1:i:1349:THR:HA	2.25	0.67
4:l:1524:ILE:CG2	7:o:1052:LEU:O	2.43	0.67
7:o:1226:TYR:CE1	7:o:1229:PHE:C	2.73	0.67
7:o:1448:VAL:HG12	7:o:1452:GLN:NE2	2.09	0.67
4:D:233:LYS:HA	4:D:345:ASP:O	1.95	0.67
5:E:355:ALA:HB3	6:F:222:PRO:HG2	1.76	0.67
4:L:9:ALA:HB1	7:O:76:VAL:H	1.60	0.67
8:P:334:ARG:HG2	8:P:380:ARG:HB3	1.77	0.67
1:a:1066:GLY:H	1:a:1099:THR:HG22	1.60	0.67
7:g:1094:VAL:HG13	7:g:1095:GLY:H	1.59	0.67
8:h:1334:ARG:HG2	8:h:1380:ARG:HB3	1.77	0.67
1:i:1012:THR:CB	5:m:1096:LEU:HA	2.24	0.67
4:l:1461:ASN:HB3	4:l:1464:LYS:HG2	1.75	0.67
6:n:1280:LEU:HD23	6:n:1280:LEU:H	1.59	0.67
6:n:1541:LEU:HB3	6:n:1543:GLU:H	1.60	0.67
8:p:1204:VAL:HG13	8:p:1405:VAL:CG1	2.25	0.67
3:C:467:LEU:HD21	3:C:491:ILE:HG21	1.78	0.66
6:F:195:GLU:OE1	6:F:197:MET:SD	2.53	0.66
6:F:224:MET:CE	6:F:316:ALA:H	2.06	0.66
1:I:397:GLU:HG2	1:I:400:ARG:HH11	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:226:TYR:CE1	7:O:229:PHE:C	2.73	0.66
3:c:1467:LEU:HD21	3:c:1491:ILE:HG21	1.78	0.66
7:g:1492:PHE:HA	7:g:1497:TRP:HE1	1.59	0.66
4:l:1185:ASN:H	4:l:1186:SER:C	2.02	0.66
7:o:1492:PHE:HA	7:o:1497:TRP:HE1	1.59	0.66
1:A:507:GLY:O	1:A:508:LYS:CB	2.43	0.66
7:G:91:ASP:O	7:G:95:GLY:HA2	1.95	0.66
1:I:258:MET:HA	1:I:258:MET:HE3	1.77	0.66
2:J:237:THR:N	2:J:287:ARG:HG3	2.10	0.66
4:L:24:ASN:HD21	4:L:524:ILE:HD11	1.60	0.66
7:O:108:LEU:HD11	7:O:511:THR:HG22	1.77	0.66
7:O:448:VAL:HG12	7:O:452:GLN:NE2	2.09	0.66
2:b:1019:ARG:NH2	2:b:1512:ASP:H	1.92	0.66
2:b:1514:ILE:CD1	3:c:1047:MET:HB3	2.19	0.66
4:d:1185:ASN:H	4:d:1186:SER:C	2.02	0.66
2:j:1243:VAL:HG12	2:j:1245:ILE:H	1.59	0.66
3:k:1456:LEU:CD2	9:k:2101:ADP:H5'1	2.26	0.66
7:o:1108:LEU:HD11	7:o:1511:THR:HG22	1.77	0.66
8:p:1024:ALA:HB2	8:p:1531:ALA:HB1	1.76	0.66
1:A:348:GLU:CB	1:A:349:THR:HA	2.25	0.66
2:B:206:SER:CB	2:B:368:VAL:HG13	2.26	0.66
4:D:24:ASN:HD21	4:D:524:ILE:HD11	1.60	0.66
9:D:601:ADP:O3'	9:D:601:ADP:H8	1.78	0.66
7:G:483:PHE:CB	9:G:601:ADP:HN62	2.08	0.66
8:H:24:ALA:HB2	8:H:531:ALA:HB1	1.76	0.66
2:J:72:PRO:CB	3:K:47:MET:HE1	2.26	0.66
3:K:264:GLU:C	3:K:265:LYS:CG	2.62	0.66
3:K:265:LYS:NZ	3:K:268:ASP:CB	2.55	0.66
3:K:467:LEU:HD21	3:K:491:ILE:HG21	1.77	0.66
4:L:241:ILE:H	4:L:241:ILE:HD12	1.60	0.66
8:P:131:TYR:HD2	8:P:452:PHE:HD2	1.42	0.66
1:a:1348:GLU:CB	1:a:1349:THR:HA	2.25	0.66
2:b:1005:ILE:HG13	2:b:1006:PHE:N	2.09	0.66
3:k:1332:THR:HB	3:k:1349:GLY:HA3	1.77	0.66
4:l:1024:ASN:HA	4:l:1074:VAL:HG21	1.77	0.66
7:G:343:PRO:HA	7:G:346:LEU:HD21	1.78	0.66
7:G:410:VAL:HG12	7:G:498:GLU:O	1.95	0.66
2:J:49:ALA:HB1	6:N:538:ARG:HB2	1.78	0.66
4:L:24:ASN:HA	4:L:74:VAL:HG21	1.77	0.66
7:O:317:ARG:HG3	7:O:317:ARG:O	1.94	0.66
2:j:1237:THR:N	2:j:1287:ARG:HG3	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1181:ILE:HD13	4:l:1373:PRO:O	1.94	0.66
7:o:1094:VAL:HG13	7:o:1095:GLY:H	1.59	0.66
8:p:1024:ALA:CA	8:p:1531:ALA:O	2.43	0.66
1:A:397:GLU:HG2	1:A:400:ARG:HH11	1.61	0.66
2:B:4:GLN:CB	2:B:5:ILE:HG12	2.24	0.66
2:B:23:PHE:HA	2:B:103:LEU:HD13	1.77	0.66
2:B:165:ILE:HG12	6:F:529:LEU:HD13	1.76	0.66
2:B:255:THR:HA	2:B:258:LEU:HD13	1.77	0.66
3:C:264:GLU:C	3:C:265:LYS:CG	2.62	0.66
4:D:44:MET:HG3	8:H:531:ALA:HB3	1.77	0.66
7:G:317:ARG:HG3	7:G:317:ARG:O	1.95	0.66
8:H:204:VAL:HG13	8:H:405:VAL:CG1	2.25	0.66
1:I:431:ILE:HG12	1:I:482:ALA:CB	2.25	0.66
2:J:463:ILE:O	2:J:467:ILE:CA	2.44	0.66
4:L:528:ARG:H	4:L:528:ARG:HE	1.43	0.66
6:N:203:SER:C	6:N:205:LYS:H	2.03	0.66
6:N:541:LEU:HB3	6:N:543:GLU:H	1.60	0.66
1:a:1064:ASN:ND2	1:a:1166:SER:O	2.27	0.66
2:b:1008:ASP:CB	2:b:1009:GLN:HA	2.22	0.66
5:e:1088:ALA:HB1	5:e:1109:LYS:HZ1	1.60	0.66
6:f:1352:GLY:O	6:f:1367:VAL:HG11	1.91	0.66
1:i:1054:VAL:HG12	1:i:1056:ASP:H	1.60	0.66
1:i:1122:PRO:HG3	5:m:1070:LEU:HD11	1.76	0.66
1:i:1507:GLY:O	1:i:1508:LYS:CB	2.43	0.66
3:k:1467:LEU:HD21	3:k:1491:ILE:HG21	1.77	0.66
4:l:1233:LYS:HA	4:l:1345:ASP:O	1.95	0.66
4:l:1241:ILE:HD12	4:l:1241:ILE:H	1.60	0.66
6:n:1174:VAL:HG13	6:n:1399:LEU:HD13	1.78	0.66
6:n:1195:GLU:OE1	6:n:1197:MET:SD	2.53	0.66
6:n:1420:ILE:HG22	6:n:1482:ASP:OD1	1.94	0.66
4:L:233:LYS:HA	4:L:345:ASP:O	1.95	0.66
5:M:337:GLN:C	5:M:338:ASN:HD22	2.03	0.66
6:N:352:GLY:CA	6:N:369:GLU:C	2.48	0.66
5:e:1166:ASP:H	5:e:1167:ASP:HB2	1.60	0.66
6:f:1083:GLN:HG3	6:f:1094:VAL:CG2	2.18	0.66
6:f:1195:GLU:OE1	6:f:1197:MET:SD	2.53	0.66
7:g:1070:LEU:HB3	7:g:1084:VAL:HG13	1.78	0.66
7:g:1091:ASP:O	7:g:1095:GLY:HA2	1.95	0.66
2:j:1463:ILE:O	2:j:1467:ILE:CA	2.44	0.66
3:k:1269:TRP:HH2	6:n:1248:ASN:H	1.44	0.66
6:n:1203:SER:C	6:n:1205:LYS:H	2.03	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1091:ASP:O	7:o:1095:GLY:HA2	1.95	0.66
4:D:252:ILE:HB	8:H:262:LYS:O	1.96	0.66
6:F:451:LEU:O	6:F:455:PRO:CD	2.44	0.66
4:L:254:VAL:HG22	8:P:265:VAL:HA	1.77	0.66
6:N:75:LEU:HD22	6:N:527:LEU:HD11	1.78	0.66
7:O:516:LEU:HD11	7:O:517:ILE:HG12	1.75	0.66
2:b:1243:VAL:HG12	2:b:1245:ILE:H	1.60	0.66
7:g:1410:VAL:HG12	7:g:1498:GLU:O	1.95	0.66
1:i:1258:MET:HA	1:i:1258:MET:HE3	1.77	0.66
2:j:1300:ASP:O	2:j:1301:LEU:CB	2.44	0.66
5:m:1544:LEU:HD23	6:n:1384:THR:HG21	1.76	0.66
7:o:1343:PRO:HA	7:o:1346:LEU:HD21	1.78	0.66
2:B:444:LEU:HD21	9:B:601:ADP:H1'	1.78	0.66
6:F:541:LEU:HB3	6:F:543:GLU:H	1.60	0.66
7:G:409:ILE:HG22	7:G:410:VAL:H	1.59	0.66
3:K:297:THR:O	3:K:319:ARG:HA	1.96	0.66
6:N:233:VAL:HG13	6:N:351:SER:HB3	1.76	0.66
7:O:410:VAL:HG12	7:O:498:GLU:O	1.95	0.66
8:P:6:PRO:CB	8:P:7:GLN:HA	2.26	0.66
2:b:1300:ASP:O	2:b:1301:LEU:CB	2.44	0.66
4:d:1233:LYS:HA	4:d:1345:ASP:O	1.95	0.66
4:d:1410:LEU:HD13	4:d:1498:LEU:HD22	1.78	0.66
6:f:1541:LEU:HB3	6:f:1543:GLU:H	1.60	0.66
7:g:1045:GLY:HA3	9:g:1601:ADP:C8	2.31	0.66
7:g:1090:GLN:CG	7:g:1101:VAL:HG21	2.24	0.66
8:h:1024:ALA:CA	8:h:1531:ALA:O	2.43	0.66
7:o:1410:VAL:HG12	7:o:1498:GLU:O	1.95	0.66
1:A:54:VAL:HG12	1:A:56:ASP:H	1.60	0.66
1:A:65:ASP:HB3	1:A:68:THR:OG1	1.96	0.66
7:G:108:LEU:HD11	7:G:511:THR:HG22	1.77	0.66
5:M:55:ARG:HG3	5:M:131:ASP:OD2	1.96	0.66
5:M:350:GLU:HA	5:M:352:GLU:OE2	1.96	0.66
7:O:75:VAL:HG21	7:O:84:VAL:HG21	1.78	0.66
7:O:91:ASP:O	7:O:95:GLY:HA2	1.95	0.66
1:a:1507:GLY:O	1:a:1508:LYS:CB	2.43	0.66
2:b:1004:GLN:HG2	3:c:1072:HIS:HB2	1.77	0.66
2:b:1255:THR:HA	2:b:1258:LEU:HD13	1.77	0.66
4:d:1241:ILE:HD12	4:d:1241:ILE:H	1.60	0.66
6:f:1540:THR:HB	6:f:1541:LEU:CD2	2.25	0.66
7:g:1075:VAL:HG21	7:g:1084:VAL:HG21	1.78	0.66
1:i:1066:GLY:H	1:i:1099:THR:HG22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1005:ILE:HG13	2:j:1006:PHE:N	2.09	0.66
2:j:1023:PHE:HA	2:j:1103:LEU:HD13	1.77	0.66
5:m:1350:GLU:HA	5:m:1352:GLU:OE2	1.96	0.66
6:n:1540:THR:HB	6:n:1541:LEU:CD2	2.25	0.66
1:A:183:ALA:HB1	1:A:383:SER:CB	2.26	0.66
1:A:431:ILE:HG12	1:A:482:ALA:CB	2.25	0.66
5:E:55:ARG:HG3	5:E:131:ASP:OD2	1.96	0.66
6:F:280:LEU:HD23	6:F:280:LEU:H	1.59	0.66
7:G:70:LEU:HB3	7:G:84:VAL:HG13	1.78	0.66
8:H:6:PRO:CB	8:H:7:GLN:HA	2.26	0.66
2:J:3:VAL:O	2:J:5:ILE:HG12	1.96	0.66
2:J:243:VAL:HG12	2:J:245:ILE:H	1.60	0.66
2:J:255:THR:HA	2:J:258:LEU:HD13	1.77	0.66
6:N:151:LEU:HB3	6:N:175:THR:OG1	1.95	0.66
6:N:420:ILE:HG22	6:N:482:ASP:OD1	1.94	0.66
8:P:24:ALA:CA	8:P:531:ALA:O	2.43	0.66
8:P:94:ILE:HD12	8:P:95:ASP:H	1.61	0.66
1:a:1431:ILE:HG12	1:a:1482:ALA:CB	2.25	0.66
1:a:1470:SER:H	3:k:1115:ASN:CB	2.09	0.66
3:c:1269:TRP:CZ3	6:f:1247:VAL:HB	2.31	0.66
3:c:1297:THR:O	3:c:1319:ARG:HA	1.96	0.66
5:e:1350:GLU:HA	5:e:1352:GLU:OE2	1.96	0.66
1:i:1397:GLU:HG2	1:i:1400:ARG:HH11	1.61	0.66
1:i:1549:PRO:HA	5:m:1077:PRO:O	1.96	0.66
3:k:1297:THR:O	3:k:1319:ARG:HA	1.96	0.66
4:l:1024:ASN:HD21	4:l:1524:ILE:HD11	1.60	0.66
4:l:1410:LEU:HD13	4:l:1498:LEU:HD22	1.78	0.66
3:C:108:ALA:N	3:C:109:PRO:HD2	2.10	0.65
2:J:3:VAL:C	2:J:5:ILE:HG23	2.21	0.65
5:M:66:GLY:N	9:M:601:ADP:H5'1	2.07	0.65
7:O:90:GLN:CG	7:O:101:VAL:HG21	2.24	0.65
2:b:1237:THR:N	2:b:1287:ARG:HG3	2.10	0.65
2:b:1246:PHE:CD1	2:b:1246:PHE:C	2.73	0.65
7:g:1162:ALA:HB3	7:g:1179:VAL:HG13	1.77	0.65
8:h:1094:ILE:HD12	8:h:1095:ASP:H	1.61	0.65
8:h:1204:VAL:HG13	8:h:1405:VAL:CG1	2.25	0.65
2:j:1459:LEU:HD22	2:j:1472:LEU:CG	2.26	0.65
6:F:75:LEU:HD22	6:F:527:LEU:HD11	1.78	0.65
2:J:30:GLY:C	2:J:33:VAL:HG23	2.22	0.65
6:N:195:GLU:OE1	6:N:197:MET:SD	2.53	0.65
1:a:1183:ALA:HB1	1:a:1383:SER:CB	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1419:TYR:CZ	6:f:1513:LEU:HD21	2.32	0.65
1:i:1431:ILE:HG12	1:i:1482:ALA:CB	2.25	0.65
2:j:1003:VAL:C	2:j:1005:ILE:HG23	2.21	0.65
4:l:1528:ARG:H	4:l:1528:ARG:HE	1.43	0.65
7:o:1083:LEU:HD23	7:o:1086:ILE:HD11	1.78	0.65
8:p:1094:ILE:HD12	8:p:1095:ASP:H	1.61	0.65
2:B:3:VAL:C	2:B:5:ILE:HG23	2.21	0.65
4:D:185:ASN:N	4:D:186:SER:O	2.30	0.65
6:F:154:ALA:O	6:F:157:SER:OG	2.12	0.65
6:F:478:ASP:C	6:F:482:ASP:HB2	2.21	0.65
8:H:94:ILE:HD12	8:H:95:ASP:H	1.61	0.65
2:J:263:LYS:HZ1	3:K:266:GLU:CB	2.09	0.65
2:J:300:ASP:O	2:J:301:LEU:CB	2.44	0.65
6:N:451:LEU:O	6:N:455:PRO:CD	2.44	0.65
2:b:1030:GLY:C	2:b:1033:VAL:HG23	2.22	0.65
2:b:1295:GLU:HB2	6:f:1337:GLN:NE2	2.11	0.65
2:b:1463:ILE:O	2:b:1467:ILE:CA	2.44	0.65
4:d:1024:ASN:HA	4:d:1074:VAL:HG21	1.77	0.65
7:g:1083:LEU:HD23	7:g:1086:ILE:HD11	1.78	0.65
1:i:1065:ASP:HB3	1:i:1068:THR:OG1	1.96	0.65
2:j:1246:PHE:CD1	2:j:1246:PHE:C	2.73	0.65
3:k:1015:THR:O	3:k:1016:THR:C	2.39	0.65
6:n:1187:ASP:O	6:n:1188:ASN:CB	2.43	0.65
4:D:254:VAL:CG2	8:H:265:VAL:HA	2.25	0.65
1:I:183:ALA:HB1	1:I:383:SER:CB	2.26	0.65
2:J:319:LEU:HD21	2:J:357:SER:OG	1.97	0.65
2:J:492:LYS:HE2	2:J:493:LEU:N	2.12	0.65
6:N:353:LEU:O	6:N:367:VAL:HG13	1.97	0.65
1:a:1065:ASP:HB3	1:a:1068:THR:OG1	1.96	0.65
4:d:1528:ARG:H	4:d:1528:ARG:HE	1.43	0.65
5:e:1337:GLN:C	5:e:1338:ASN:HD22	2.03	0.65
7:g:1045:GLY:HA3	9:g:1601:ADP:N7	2.11	0.65
7:g:1086:ILE:HA	7:g:1089:ALA:HB3	1.79	0.65
2:j:1004:GLN:HG2	3:k:1072:HIS:HB2	1.78	0.65
2:j:1027:ILE:CD1	2:j:1104:ARG:HH11	2.09	0.65
2:j:1319:LEU:HD21	2:j:1357:SER:OG	1.97	0.65
4:l:1217:GLN:NE2	4:l:1316:ILE:HA	2.12	0.65
5:m:1350:GLU:C	5:m:1352:GLU:N	2.55	0.65
6:n:1352:GLY:O	6:n:1367:VAL:HG11	1.91	0.65
4:D:297:VAL:HB	4:D:298:ASN:HA	1.78	0.65
8:H:24:ALA:CA	8:H:531:ALA:O	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:57:LEU:N	3:K:57:LEU:CD2	2.57	0.65
3:K:269:TRP:HH2	6:N:248:ASN:N	1.82	0.65
6:N:540:THR:HB	6:N:541:LEU:CD2	2.25	0.65
1:a:1187:VAL:HG23	1:a:1383:SER:HB3	1.79	0.65
3:c:1122:ILE:HD13	3:c:1522:ARG:HG2	1.79	0.65
4:d:1297:VAL:HB	4:d:1298:ASN:HA	1.78	0.65
2:j:1409:MET:HB3	2:j:1463:ILE:HD13	1.78	0.65
5:m:1055:ARG:HG3	5:m:1131:ASP:OD2	1.96	0.65
8:p:1006:PRO:CB	8:p:1007:GLN:HA	2.26	0.65
2:B:402:LEU:HD11	2:B:483:ARG:HE	1.62	0.65
3:C:122:ILE:HD13	3:C:522:ARG:HG2	1.79	0.65
7:G:75:VAL:HG21	7:G:84:VAL:HG21	1.78	0.65
8:H:250:PHE:HE2	8:H:299:ILE:HD12	1.62	0.65
1:I:65:ASP:HB3	1:I:68:THR:OG1	1.96	0.65
2:J:459:LEU:HD22	2:J:472:LEU:CG	2.26	0.65
4:L:297:VAL:HB	4:L:298:ASN:HA	1.78	0.65
8:P:250:PHE:HE2	8:P:299:ILE:HD12	1.61	0.65
1:a:1397:GLU:HG2	1:a:1400:ARG:HH11	1.61	0.65
2:b:1402:LEU:HD11	2:b:1483:ARG:HE	1.62	0.65
3:c:1015:THR:O	3:c:1016:THR:C	2.39	0.65
5:e:1039:LYS:HZ3	6:n:1109:ILE:CG1	2.07	0.65
6:f:1501:PRO:CB	6:f:1506:ILE:HB	2.17	0.65
4:l:1154:ALA:HB2	4:l:1175:VAL:HG13	1.79	0.65
4:l:1185:ASN:N	4:l:1186:SER:O	2.30	0.65
6:n:1143:LEU:HD22	6:n:1145:ASN:HB3	1.79	0.65
6:n:1224:MET:CE	6:n:1316:ALA:H	2.06	0.65
1:I:187:VAL:HG23	1:I:383:SER:HB3	1.79	0.65
1:I:507:GLY:O	1:I:508:LYS:CB	2.43	0.65
2:J:5:ILE:HG13	2:J:6:PHE:N	2.09	0.65
2:J:23:PHE:HA	2:J:103:LEU:HD13	1.77	0.65
2:J:393:GLN:HB3	2:J:492:LYS:HE3	1.79	0.65
3:K:15:THR:O	3:K:16:THR:C	2.39	0.65
3:K:255:GLY:H	3:K:259:THR:HG21	1.62	0.65
8:P:300:VAL:HG11	8:P:332:LEU:HD21	1.79	0.65
1:a:1289:ILE:HA	1:a:1293:ALA:HB2	1.76	0.65
2:b:1091:GLY:HA2	9:b:1601:ADP:PA	2.37	0.65
2:b:1492:LYS:HE2	2:b:1493:LEU:N	2.12	0.65
2:j:1030:GLY:C	2:j:1033:VAL:HG23	2.22	0.65
6:n:1419:TYR:CZ	6:n:1513:LEU:HD21	2.32	0.65
6:n:1451:LEU:O	6:n:1455:PRO:CD	2.44	0.65
8:p:1300:VAL:HG11	8:p:1332:LEU:HD21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1334:ARG:HG2	8:p:1380:ARG:HB3	1.77	0.65
4:D:330:CYS:CB	4:D:345:ASP:OD2	2.44	0.65
6:F:540:THR:HB	6:F:541:LEU:CD2	2.25	0.65
7:G:86:ILE:HA	7:G:89:ALA:HB3	1.79	0.65
1:I:54:VAL:HG12	1:I:56:ASP:H	1.60	0.65
4:L:185:ASN:H	4:L:186:SER:C	2.02	0.65
6:N:540:THR:O	6:N:542:LYS:CG	2.44	0.65
7:O:70:LEU:HB3	7:O:84:VAL:HG13	1.78	0.65
4:d:1024:ASN:HD21	4:d:1524:ILE:HD11	1.60	0.65
5:e:1055:ARG:HG3	5:e:1131:ASP:OD2	1.96	0.65
7:g:1108:LEU:HD11	7:g:1511:THR:HG22	1.77	0.65
1:i:1187:VAL:HG23	1:i:1383:SER:HB3	1.78	0.65
7:o:1086:ILE:HA	7:o:1089:ALA:HB3	1.79	0.65
2:B:8:ASP:CB	2:B:9:GLN:HA	2.22	0.65
2:B:278:LYS:HA	2:B:333:SER:HB3	1.79	0.65
2:B:319:LEU:HD21	2:B:357:SER:OG	1.97	0.65
3:C:266:GLU:CD	3:C:266:GLU:H	2.05	0.65
4:D:24:ASN:HA	4:D:74:VAL:HG21	1.77	0.65
4:D:217:GLN:NE2	4:D:316:ILE:HA	2.12	0.65
6:F:174:VAL:HG13	6:F:399:LEU:HD13	1.77	0.65
7:G:446:LEU:HD21	7:G:507:LEU:HD23	1.78	0.65
2:J:409:MET:HB3	2:J:463:ILE:HD13	1.78	0.65
4:L:154:ALA:HB2	4:L:175:VAL:HG13	1.79	0.65
2:b:1197:LYS:HB3	2:b:1381:GLU:OE1	1.97	0.65
2:b:1319:LEU:HD21	2:b:1357:SER:OG	1.97	0.65
6:f:1075:LEU:HD22	6:f:1527:LEU:HD11	1.78	0.65
6:f:1434:LEU:O	6:f:1438:GLY:CA	2.45	0.65
6:f:1451:LEU:O	6:f:1455:PRO:CD	2.44	0.65
4:l:1038:SER:HB3	4:l:1046:LYS:NZ	2.12	0.65
6:n:1430:ASN:C	6:n:1433:LYS:H	2.05	0.65
3:C:161:THR:H	3:C:165:ILE:HG13	1.62	0.65
3:C:297:THR:O	3:C:319:ARG:HA	1.96	0.65
5:E:350:GLU:HA	5:E:352:GLU:OE2	1.96	0.65
6:F:539:SER:HB2	6:F:542:LYS:CD	2.27	0.65
7:G:454:CYS:HB2	7:G:461:ALA:CB	2.27	0.65
2:J:27:ILE:CD1	2:J:104:ARG:HH11	2.09	0.65
2:J:230:LYS:HA	2:J:337:LEU:O	1.97	0.65
2:J:402:LEU:HD11	2:J:483:ARG:HE	1.62	0.65
7:O:83:LEU:HD23	7:O:86:ILE:HD11	1.78	0.65
4:d:1185:ASN:N	4:d:1186:SER:O	2.30	0.65
6:f:1174:VAL:HG13	6:f:1399:LEU:HD13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1187:ASP:O	6:f:1188:ASN:CB	2.43	0.65
6:f:1353:LEU:O	6:f:1367:VAL:HG13	1.97	0.65
7:g:1191:ARG:HE	7:g:1191:ARG:CA	1.94	0.65
2:j:1032:LEU:CD1	6:n:1532:GLU:OE2	2.45	0.65
2:j:1083:VAL:HG21	3:k:1384:GLY:O	1.96	0.65
2:j:1197:LYS:HB3	2:j:1381:GLU:OE1	1.97	0.65
3:k:1124:ALA:HB1	3:k:1441:PRO:HB2	1.79	0.65
6:n:1106:HIS:O	6:n:1109:ILE:HG12	1.97	0.65
2:B:21:SER:OG	1:I:8:SER:N	2.30	0.64
2:J:45:LEU:HB2	6:N:533:LEU:CB	2.27	0.64
4:L:38:SER:HB3	4:L:46:LYS:NZ	2.12	0.64
4:L:185:ASN:N	4:L:186:SER:O	2.30	0.64
4:L:214:VAL:HG22	4:L:362:ARG:HG2	1.80	0.64
2:b:1295:GLU:C	6:f:1337:GLN:HE22	2.06	0.64
3:c:1255:GLY:H	3:c:1259:THR:HG21	1.62	0.64
3:c:1266:GLU:CD	3:c:1266:GLU:H	2.05	0.64
4:d:1134:ILE:HD11	4:d:1424:ARG:CG	2.28	0.64
6:f:1540:THR:O	6:f:1542:LYS:CG	2.44	0.64
7:g:1409:ILE:HG22	7:g:1410:VAL:H	1.59	0.64
7:g:1446:LEU:HD21	7:g:1507:LEU:HD23	1.78	0.64
8:h:1300:VAL:HG11	8:h:1332:LEU:HD21	1.79	0.64
1:i:1066:GLY:N	1:i:1099:THR:HG22	2.12	0.64
2:j:1034:LYS:O	2:j:1036:THR:N	2.27	0.64
2:j:1278:LYS:HA	2:j:1333:SER:HB3	1.79	0.64
4:l:1226:PRO:HB2	4:l:1311:MET:HG2	1.79	0.64
6:n:1075:LEU:HD22	6:n:1527:LEU:HD11	1.78	0.64
6:n:1478:ASP:C	6:n:1482:ASP:HB2	2.21	0.64
1:A:45:GLY:H	9:A:601:ADP:H5'1	1.63	0.64
2:B:30:GLY:C	2:B:33:VAL:HG23	2.22	0.64
2:B:206:SER:HB2	2:B:368:VAL:HG22	1.78	0.64
2:B:300:ASP:O	2:B:301:LEU:CB	2.44	0.64
2:B:463:ILE:O	2:B:467:ILE:CA	2.44	0.64
2:B:492:LYS:HE2	2:B:493:LEU:N	2.12	0.64
3:C:255:GLY:H	3:C:259:THR:HG21	1.62	0.64
4:D:38:SER:HB3	4:D:46:LYS:NZ	2.12	0.64
4:D:226:PRO:HB2	4:D:311:MET:HG2	1.79	0.64
4:D:521:ILE:HG21	7:G:52:LEU:H	1.61	0.64
6:F:241:GLU:HA	6:F:302:ASP:OD2	1.98	0.64
2:J:197:LYS:HB3	2:J:381:GLU:OE1	1.97	0.64
3:K:124:ALA:HB1	3:K:441:PRO:HB2	1.79	0.64
4:L:524:ILE:HG23	7:O:52:LEU:HD22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:430:ASN:C	6:N:433:LYS:H	2.05	0.64
7:O:446:LEU:HD21	7:O:507:LEU:HD23	1.78	0.64
4:d:1038:SER:HB3	4:d:1046:LYS:NZ	2.12	0.64
7:g:1454:CYS:HB2	7:g:1461:ALA:CB	2.27	0.64
8:h:1006:PRO:CA	4:l:1071:LEU:CB	2.74	0.64
1:i:1183:ALA:HB1	1:i:1383:SER:CB	2.26	0.64
4:l:1134:ILE:HD11	4:l:1424:ARG:CG	2.28	0.64
8:p:1250:PHE:HE2	8:p:1299:ILE:HD12	1.62	0.64
3:C:15:THR:O	3:C:16:THR:C	2.39	0.64
4:D:239:PHE:H	4:D:288:ILE:HD12	1.62	0.64
5:E:350:GLU:C	5:E:352:GLU:N	2.55	0.64
6:F:430:ASN:C	6:F:433:LYS:H	2.05	0.64
7:G:90:GLN:CG	7:G:101:VAL:HG21	2.24	0.64
7:G:235:LYS:CB	7:G:352:PHE:O	2.46	0.64
3:K:269:TRP:CH2	6:N:248:ASN:N	2.60	0.64
4:L:217:GLN:NE2	4:L:316:ILE:HA	2.12	0.64
4:L:410:LEU:HD13	4:L:498:LEU:HD22	1.78	0.64
6:N:143:LEU:HD22	6:N:145:ASN:HB3	1.79	0.64
2:b:1003:VAL:C	2:b:1005:ILE:HG23	2.21	0.64
4:d:1154:ALA:HB2	4:d:1175:VAL:HG13	1.79	0.64
2:j:1008:ASP:HA	2:j:1010:VAL:HG23	1.80	0.64
2:j:1393:GLN:HB3	2:j:1492:LYS:HE3	1.79	0.64
7:o:1075:VAL:HG21	7:o:1084:VAL:HG21	1.78	0.64
7:o:1109:MET:HG2	7:o:1514:THR:CG2	2.28	0.64
7:o:1454:CYS:HB2	7:o:1461:ALA:CB	2.27	0.64
1:A:187:VAL:HG23	1:A:383:SER:HB3	1.79	0.64
2:B:8:ASP:HA	2:B:10:VAL:HG23	1.80	0.64
2:B:230:LYS:HA	2:B:337:LEU:O	1.98	0.64
5:E:39:LYS:HE2	6:N:109:ILE:O	1.96	0.64
6:F:419:TYR:CZ	6:F:513:LEU:HD21	2.32	0.64
7:G:83:LEU:HD23	7:G:86:ILE:HD11	1.78	0.64
1:I:50:ASP:CG	1:I:64:ASN:HB2	2.23	0.64
2:J:408:GLU:HG2	2:J:440:LEU:HB3	1.78	0.64
6:N:419:TYR:CZ	6:N:513:LEU:HD21	2.32	0.64
6:N:478:ASP:C	6:N:482:ASP:HB2	2.20	0.64
2:b:1393:GLN:HB3	2:b:1492:LYS:HE3	1.79	0.64
5:e:1368:ASP:O	5:e:1369:LEU:C	2.41	0.64
1:i:1158:ASN:ND2	1:i:1516:GLY:HA2	2.13	0.64
2:j:1003:VAL:O	2:j:1005:ILE:HG12	1.96	0.64
3:k:1266:GLU:CD	3:k:1266:GLU:H	2.05	0.64
1:A:184:LEU:HD21	1:A:198:TYR:CB	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:232:LEU:HD21	2:B:325:VAL:HG21	1.79	0.64
2:B:393:GLN:HB3	2:B:492:LYS:HE3	1.79	0.64
6:F:434:LEU:O	6:F:438:GLY:CA	2.45	0.64
7:G:42:PRO:O	7:G:48:GLY:CA	2.40	0.64
2:J:232:LEU:HD21	2:J:325:VAL:HG21	1.80	0.64
2:J:295:GLU:HB2	6:N:337:GLN:NE2	2.12	0.64
4:L:226:PRO:HB2	4:L:311:MET:HG2	1.80	0.64
4:L:239:PHE:H	4:L:288:ILE:HD12	1.62	0.64
6:N:414:GLY:O	6:N:415:ALA:HB3	1.97	0.64
7:O:239:PRO:HA	7:O:291:ASN:HD21	1.63	0.64
8:P:168:SER:HB3	8:P:175:GLU:HB3	1.80	0.64
1:a:1184:LEU:HD21	1:a:1198:TYR:CB	2.28	0.64
2:b:1091:GLY:HA2	9:b:1601:ADP:O2A	1.98	0.64
4:d:1239:PHE:H	4:d:1288:ILE:HD12	1.62	0.64
6:f:1023:VAL:HG11	6:f:1106:HIS:CB	2.28	0.64
7:o:1070:LEU:HB3	7:o:1084:VAL:HG13	1.78	0.64
1:A:218:LEU:HD22	1:A:219:VAL:H	1.63	0.64
2:B:5:ILE:HG13	2:B:6:PHE:N	2.09	0.64
2:B:409:MET:HB3	2:B:463:ILE:HD13	1.78	0.64
4:D:134:ILE:HD11	4:D:424:ARG:CG	2.28	0.64
4:D:214:VAL:HG22	4:D:362:ARG:HG2	1.80	0.64
4:D:410:LEU:HD13	4:D:498:LEU:HD22	1.78	0.64
5:E:166:ASP:H	5:E:167:ASP:HB2	1.60	0.64
7:G:239:PRO:HA	7:G:291:ASN:HD21	1.63	0.64
2:J:8:ASP:HA	2:J:10:VAL:HG23	1.79	0.64
3:K:122:ILE:HD13	3:K:522:ARG:HG2	1.79	0.64
5:M:368:ASP:O	5:M:369:LEU:C	2.41	0.64
6:N:174:VAL:HG13	6:N:399:LEU:HD13	1.78	0.64
2:b:1409:MET:HB3	2:b:1463:ILE:HD13	1.78	0.64
6:f:1430:ASN:C	6:f:1433:LYS:H	2.05	0.64
7:g:1343:PRO:HA	7:g:1346:LEU:HD21	1.78	0.64
6:n:1414:GLY:O	6:n:1415:ALA:HB3	1.98	0.64
6:n:1539:SER:HB2	6:n:1542:LYS:CD	2.27	0.64
7:o:1235:LYS:CB	7:o:1352:PHE:O	2.46	0.64
7:G:109:MET:HG2	7:G:514:THR:CG2	2.28	0.64
7:G:516:LEU:HD11	7:G:517:ILE:HG12	1.75	0.64
3:K:161:THR:H	3:K:165:ILE:HG13	1.62	0.64
4:L:134:ILE:HD11	4:L:424:ARG:CG	2.28	0.64
6:N:434:LEU:O	6:N:438:GLY:CA	2.45	0.64
7:O:343:PRO:HA	7:O:346:LEU:HD21	1.78	0.64
7:O:454:CYS:HB2	7:O:461:ALA:CB	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1050:ASP:CG	1:a:1064:ASN:HB2	2.23	0.64
2:b:1027:ILE:CD1	2:b:1104:ARG:HH11	2.09	0.64
8:h:1006:PRO:CB	4:l:1071:LEU:CA	2.75	0.64
1:i:1184:LEU:HD21	1:i:1198:TYR:CB	2.28	0.64
2:j:1230:LYS:H	2:j:1281:ILE:HG22	1.62	0.64
2:j:1375:GLN:NE2	6:n:1075:LEU:HD12	2.13	0.64
4:l:1214:VAL:HG22	4:l:1362:ARG:HG2	1.80	0.64
4:l:1521:ILE:HG23	7:o:1051:ILE:CA	2.28	0.64
2:B:197:LYS:HB3	2:B:381:GLU:OE1	1.97	0.64
3:C:93:THR:HG22	10:C:1102:BEF:F2	1.87	0.64
4:D:499:GLN:NE2	9:D:601:ADP:H2'	2.12	0.64
5:E:368:ASP:O	5:E:369:LEU:C	2.41	0.64
6:F:353:LEU:O	6:F:367:VAL:HG13	1.97	0.64
2:J:201:GLY:H	6:N:86:ILE:HD12	1.63	0.64
5:M:66:GLY:H	9:M:601:ADP:C5'	2.05	0.64
6:N:538:ARG:HH11	6:N:538:ARG:CG	2.11	0.64
7:O:86:ILE:HA	7:O:89:ALA:HB3	1.79	0.64
7:O:191:ARG:CD	7:O:192:ASN:N	2.61	0.64
3:c:1112:ILE:C	3:c:1114:LYS:H	2.06	0.64
7:g:1109:MET:HG2	7:g:1514:THR:CG2	2.28	0.64
2:j:1402:LEU:HD11	2:j:1483:ARG:HE	1.62	0.64
5:m:1166:ASP:H	5:m:1167:ASP:HB2	1.60	0.64
6:n:1159:LEU:O	6:n:1160:THR:CB	2.46	0.64
6:n:1538:ARG:HH11	6:n:1538:ARG:CG	2.11	0.64
7:o:1446:LEU:HD21	7:o:1507:LEU:HD23	1.78	0.64
8:p:1168:SER:HB3	8:p:1175:GLU:HB3	1.80	0.64
1:A:50:ASP:CG	1:A:64:ASN:HB2	2.23	0.64
2:B:4:GLN:HB2	3:C:71:ALA:HB3	1.80	0.64
4:D:154:ALA:HB2	4:D:175:VAL:HG13	1.79	0.64
3:K:266:GLU:CD	3:K:266:GLU:H	2.05	0.64
6:N:83:GLN:HG3	6:N:94:VAL:CG2	2.18	0.64
3:c:1512:THR:HG23	8:h:1389:ALA:HB1	1.79	0.64
4:d:1226:PRO:HB2	4:d:1311:MET:HG2	1.79	0.64
6:f:1538:ARG:HH11	6:f:1538:ARG:CG	2.11	0.64
6:f:1539:SER:HB2	6:f:1542:LYS:CD	2.27	0.64
8:h:1250:PHE:HE2	8:h:1299:ILE:HD12	1.61	0.64
3:k:1320:VAL:O	3:k:1321:LYS:C	2.41	0.64
5:m:1544:LEU:HD23	6:n:1384:THR:CG2	2.28	0.64
6:n:1133:LEU:HD12	6:n:1422:LEU:CD2	2.24	0.64
6:n:1241:GLU:HA	6:n:1302:ASP:OD2	1.98	0.64
1:A:66:GLY:N	1:A:99:THR:HG22	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:223:VAL:HG12	3:C:224:LEU:H	1.63	0.64
5:E:33:LYS:HE2	6:N:117:ILE:HG12	1.79	0.64
5:E:128:ALA:HB2	5:E:478:THR:HG21	1.80	0.64
6:F:23:VAL:HG11	6:F:106:HIS:CB	2.28	0.64
6:F:331:VAL:O	6:F:332:THR:OG1	2.12	0.64
1:I:66:GLY:N	1:I:99:THR:HG22	2.12	0.64
2:J:278:LYS:HA	2:J:333:SER:HB3	1.79	0.64
2:J:411:MET:O	2:J:415:VAL:HG23	1.98	0.64
5:M:401:THR:O	5:M:402:LYS:CB	2.46	0.64
6:N:352:GLY:O	6:N:367:VAL:HG11	1.91	0.64
7:O:317:ARG:O	7:O:317:ARG:CG	2.46	0.64
2:b:1411:MET:O	2:b:1415:VAL:HG23	1.98	0.64
4:d:1071:LEU:CA	8:p:1006:PRO:CG	2.76	0.64
7:g:1304:THR:HA	7:g:1307:PHE:HE2	1.63	0.64
3:k:1035:ILE:HD11	3:k:1065:LEU:HG	1.80	0.64
3:k:1255:GLY:H	3:k:1259:THR:HG21	1.62	0.64
5:m:1128:ALA:HB2	5:m:1478:THR:HG21	1.80	0.64
5:m:1483:LEU:HD11	9:m:1601:ADP:HI'	1.80	0.64
6:n:1489:VAL:O	6:n:1490:GLY:C	2.41	0.64
3:C:112:ILE:C	3:C:114:LYS:H	2.06	0.63
3:C:124:ALA:HB1	3:C:441:PRO:HB2	1.79	0.63
1:I:540:ARG:O	5:M:70:LEU:HB3	1.98	0.63
5:M:166:ASP:H	5:M:167:ASP:HB2	1.60	0.63
8:P:430:LEU:HD13	8:P:434:ILE:HD11	1.79	0.63
3:c:1223:VAL:HG12	3:c:1224:LEU:H	1.63	0.63
3:k:1223:VAL:HG12	3:k:1224:LEU:H	1.63	0.63
4:l:1297:VAL:HB	4:l:1298:ASN:HA	1.78	0.63
6:n:1353:LEU:O	6:n:1367:VAL:HG13	1.97	0.63
7:o:1191:ARG:CZ	7:o:1192:ASN:N	2.61	0.63
7:o:1418:MET:HE3	7:o:1447:GLU:HG2	1.80	0.63
3:C:391:GLU:O	3:C:395:ASN:HB2	1.99	0.63
4:D:210:ILE:O	4:D:375:VAL:HG13	1.98	0.63
6:F:465:ASP:CA	6:F:466:PRO:C	2.68	0.63
6:F:538:ARG:HH11	6:F:538:ARG:CG	2.11	0.63
1:I:218:LEU:HD22	1:I:219:VAL:H	1.63	0.63
2:J:251:LYS:N	6:N:251:PHE:HA	2.10	0.63
5:M:350:GLU:C	5:M:352:GLU:N	2.55	0.63
6:N:489:VAL:O	6:N:490:GLY:C	2.41	0.63
1:a:1066:GLY:N	1:a:1099:THR:HG22	2.12	0.63
5:e:1039:LYS:HE2	6:n:1109:ILE:O	1.97	0.63
5:e:1128:ALA:HB2	5:e:1478:THR:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1350:GLU:C	5:e:1352:GLU:N	2.55	0.63
6:f:1159:LEU:O	6:f:1160:THR:CB	2.46	0.63
6:f:1241:GLU:HA	6:f:1302:ASP:OD2	1.98	0.63
8:h:1430:LEU:HD13	8:h:1434:ILE:HD11	1.79	0.63
1:i:1050:ASP:CG	1:i:1064:ASN:HB2	2.23	0.63
3:k:1161:THR:H	3:k:1165:ILE:HG13	1.62	0.63
7:o:1239:PRO:HA	7:o:1291:ASN:HD21	1.63	0.63
2:B:411:MET:O	2:B:415:VAL:HG23	1.98	0.63
7:G:317:ARG:O	7:G:317:ARG:CG	2.46	0.63
3:K:335:THR:HB	8:P:237:LYS:HE2	1.80	0.63
2:b:1230:LYS:H	2:b:1281:ILE:HG22	1.63	0.63
2:b:1236:THR:OG1	2:b:1327:SER:HA	1.99	0.63
3:c:1250:LEU:HG	3:c:1301:VAL:CB	2.29	0.63
5:e:1104:LEU:CD2	5:e:1123:VAL:HG13	2.27	0.63
6:f:1414:GLY:O	6:f:1415:ALA:HB3	1.97	0.63
7:g:1235:LYS:CB	7:g:1352:PHE:O	2.46	0.63
7:g:1516:LEU:HD11	7:g:1517:ILE:HG12	1.75	0.63
2:j:1210:GLU:OE1	2:j:1357:SER:O	2.17	0.63
5:m:1104:LEU:CD2	5:m:1123:VAL:HG13	2.27	0.63
5:m:1558:GLY:HA2	6:n:1048:ASP:HB2	1.80	0.63
4:D:252:ILE:O	8:H:263:GLY:HA2	1.99	0.63
6:N:159:LEU:O	6:N:160:THR:CB	2.46	0.63
6:N:241:GLU:HA	6:N:302:ASP:OD2	1.98	0.63
7:O:235:LYS:CB	7:O:352:PHE:O	2.46	0.63
2:b:1210:GLU:OE1	2:b:1357:SER:O	2.17	0.63
3:c:1142:PRO:HB3	3:c:1410:PRO:HB2	1.81	0.63
6:n:1330:LEU:CB	6:n:1375:SER:OG	2.47	0.63
6:n:1433:LYS:HB3	6:n:1441:LYS:HA	1.80	0.63
8:p:1024:ALA:O	8:p:1028:ILE:HG13	1.99	0.63
2:B:408:GLU:HG2	2:B:440:LEU:HB3	1.78	0.63
3:C:35:ILE:HD11	3:C:65:LEU:HG	1.80	0.63
6:F:83:GLN:HG3	6:F:94:VAL:CG2	2.18	0.63
6:F:106:HIS:O	6:F:109:ILE:HG12	1.97	0.63
7:G:418:MET:HE3	7:G:447:GLU:HG2	1.80	0.63
8:H:300:VAL:HG11	8:H:332:LEU:HD21	1.79	0.63
8:H:430:LEU:HD13	8:H:434:ILE:HD11	1.79	0.63
1:I:158:ASN:ND2	1:I:516:GLY:HA2	2.13	0.63
6:N:433:LYS:HB3	6:N:441:LYS:HA	1.80	0.63
6:N:539:SER:HB2	6:N:542:LYS:CD	2.27	0.63
7:O:282:LEU:HD21	7:O:306:PHE:HB2	1.80	0.63
1:a:1115:LEU:HD13	1:a:1125:ILE:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1008:ASP:HA	2:b:1010:VAL:HG23	1.80	0.63
2:b:1230:LYS:HA	2:b:1337:LEU:O	1.97	0.63
2:b:1492:LYS:H	2:b:1492:LYS:HZ3	1.44	0.63
3:c:1161:THR:H	3:c:1165:ILE:HG13	1.62	0.63
2:j:1230:LYS:HA	2:j:1337:LEU:O	1.98	0.63
2:j:1492:LYS:NZ	2:j:1492:LYS:H	1.97	0.63
3:k:1391:GLU:O	3:k:1395:ASN:HB2	1.99	0.63
4:l:1239:PHE:H	4:l:1288:ILE:HD12	1.62	0.63
6:n:1465:ASP:CA	6:n:1466:PRO:C	2.68	0.63
2:B:236:THR:OG1	2:B:327:SER:HA	1.99	0.63
5:E:283:THR:HG22	5:E:284:LYS:H	1.64	0.63
6:F:143:LEU:HD22	6:F:145:ASN:HB3	1.79	0.63
6:F:330:LEU:CB	6:F:375:SER:OG	2.47	0.63
1:I:115:LEU:HD13	1:I:125:ILE:HD11	1.81	0.63
3:K:112:ILE:C	3:K:114:LYS:H	2.06	0.63
6:N:331:VAL:O	6:N:332:THR:OG1	2.12	0.63
8:P:204:VAL:HG13	8:P:405:VAL:CG1	2.25	0.63
2:b:1278:LYS:HA	2:b:1333:SER:HB3	1.79	0.63
2:b:1422:ILE:HG21	2:b:1427:SER:HB3	1.79	0.63
3:c:1320:VAL:O	3:c:1321:LYS:C	2.41	0.63
3:c:1391:GLU:O	3:c:1395:ASN:HB2	1.99	0.63
4:d:1217:GLN:NE2	4:d:1316:ILE:HA	2.12	0.63
6:f:1106:HIS:O	6:f:1109:ILE:HG12	1.97	0.63
6:f:1465:ASP:CA	6:f:1466:PRO:C	2.68	0.63
7:g:1191:ARG:CZ	7:g:1192:ASN:N	2.61	0.63
7:g:1317:ARG:O	7:g:1317:ARG:CG	2.46	0.63
2:j:1072:PRO:CG	3:k:1047:MET:HE1	2.28	0.63
4:l:1210:ILE:O	4:l:1375:VAL:HG13	1.98	0.63
6:F:159:LEU:O	6:F:160:THR:CB	2.46	0.63
7:G:191:ARG:CZ	7:G:192:ASN:N	2.61	0.63
1:I:55:ASP:HA	7:O:527:LYS:HB3	1.80	0.63
2:J:210:GLU:OE1	2:J:357:SER:O	2.17	0.63
2:J:492:LYS:H	2:J:492:LYS:NZ	1.97	0.63
5:M:283:THR:HG22	5:M:284:LYS:H	1.64	0.63
6:N:106:HIS:O	6:N:109:ILE:HG12	1.97	0.63
6:N:330:LEU:CB	6:N:375:SER:OG	2.47	0.63
7:O:109:MET:SD	7:O:514:THR:HG22	2.39	0.63
7:O:109:MET:HG2	7:O:514:THR:CG2	2.28	0.63
7:O:189:LEU:N	7:O:190:ASP:HB2	2.14	0.63
1:a:1158:ASN:ND2	1:a:1516:GLY:HA2	2.13	0.63
2:b:1232:LEU:HD21	2:b:1325:VAL:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:1124:ALA:HB1	3:c:1441:PRO:HB2	1.79	0.63
6:f:1439:LYS:HD3	6:f:1440:THR:H	1.63	0.63
6:f:1478:ASP:C	6:f:1482:ASP:HB2	2.21	0.63
7:g:1239:PRO:HA	7:g:1291:ASN:HD21	1.63	0.63
8:h:1168:SER:HB3	8:h:1175:GLU:HB3	1.80	0.63
8:h:1375:GLN:N	8:h:1376:GLY:HA3	2.14	0.63
1:i:1115:LEU:HD13	1:i:1125:ILE:HD11	1.81	0.63
2:j:1038:GLY:HA3	2:j:1474:LEU:CD1	2.29	0.63
2:j:1408:GLU:HG2	2:j:1440:LEU:HB3	1.78	0.63
5:m:1368:ASP:O	5:m:1369:LEU:C	2.41	0.63
6:n:1108:PHE:CE2	6:n:1118:ILE:HG13	2.34	0.63
1:A:458:ILE:HB	1:A:459:PRO:HD3	1.81	0.63
2:B:3:VAL:O	2:B:5:ILE:HG12	1.96	0.63
2:B:230:LYS:H	2:B:281:ILE:HG22	1.62	0.63
7:G:191:ARG:CD	7:G:192:ASN:N	2.61	0.63
7:G:498:GLU:HG2	9:G:601:ADP:O2'	1.99	0.63
8:H:168:SER:HB3	8:H:175:GLU:HB3	1.80	0.63
2:J:34:LYS:O	2:J:36:THR:N	2.27	0.63
5:M:104:LEU:CD2	5:M:123:VAL:HG13	2.27	0.63
6:N:23:VAL:HG11	6:N:106:HIS:CB	2.28	0.63
7:O:304:THR:HA	7:O:307:PHE:HE2	1.63	0.63
1:a:1458:ILE:HB	1:a:1459:PRO:HD3	1.81	0.63
6:f:1108:PHE:CE2	6:f:1118:ILE:HG13	2.34	0.63
6:n:1023:VAL:HG11	6:n:1106:HIS:CB	2.28	0.63
6:n:1481:GLN:O	6:n:1489:VAL:HG21	1.99	0.63
8:p:1375:GLN:N	8:p:1376:GLY:HA3	2.14	0.63
6:F:414:GLY:O	6:F:415:ALA:HB3	1.98	0.63
1:I:228:VAL:CG2	1:I:363:GLN:NE2	2.49	0.63
2:J:98:LEU:O	2:J:102:LEU:HB2	1.99	0.63
2:J:422:ILE:HG21	2:J:427:SER:HB3	1.79	0.63
4:L:528:ARG:H	4:L:528:ARG:NE	1.97	0.63
5:M:128:ALA:HB2	5:M:478:THR:HG21	1.80	0.63
5:M:383:GLN:O	5:M:391:ARG:CB	2.47	0.63
6:N:108:PHE:CE2	6:N:118:ILE:HG13	2.34	0.63
2:b:1045:LEU:HB2	6:f:1533:LEU:CB	2.29	0.63
2:b:1408:GLU:HG2	2:b:1440:LEU:HB3	1.78	0.63
3:c:1035:ILE:HD11	3:c:1065:LEU:HG	1.80	0.63
4:d:1071:LEU:HA	8:p:1006:PRO:HG2	1.79	0.63
5:e:1174:GLU:O	5:e:1175:LEU:CG	2.47	0.63
5:e:1383:GLN:O	5:e:1391:ARG:CB	2.47	0.63
7:g:1043:THR:HG22	7:g:1064:ASN:CB	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1218:LEU:HD22	1:i:1219:VAL:H	1.63	0.63
2:j:1008:ASP:CB	2:j:1009:GLN:HA	2.22	0.63
2:j:1098:LEU:O	2:j:1102:LEU:HB2	1.99	0.63
2:j:1236:THR:OG1	2:j:1327:SER:HA	1.99	0.63
4:l:1292:ILE:HG13	4:l:1293:LEU:HA	1.81	0.63
5:m:1283:THR:HG22	5:m:1284:LYS:H	1.64	0.63
5:m:1383:GLN:O	5:m:1391:ARG:CB	2.47	0.63
5:m:1401:THR:O	5:m:1402:LYS:CB	2.46	0.63
7:o:1317:ARG:O	7:o:1317:ARG:CG	2.46	0.63
8:p:1131:TYR:CD2	8:p:1452:PHE:HD2	2.17	0.63
1:A:115:LEU:HD13	1:A:125:ILE:HD11	1.81	0.62
2:B:210:GLU:OE1	2:B:357:SER:O	2.17	0.62
4:D:528:ARG:H	4:D:528:ARG:NE	1.97	0.62
6:F:433:LYS:C	6:F:441:LYS:CB	2.72	0.62
7:G:304:THR:HA	7:G:307:PHE:HE2	1.63	0.62
4:L:292:ILE:HG13	4:L:293:LEU:HA	1.81	0.62
6:N:433:LYS:C	6:N:441:LYS:CB	2.72	0.62
1:a:1224:LEU:HD13	1:a:1226:CYS:HB2	1.80	0.62
4:d:1528:ARG:H	4:d:1528:ARG:NE	1.97	0.62
6:f:1481:GLN:O	6:f:1489:VAL:HG21	1.99	0.62
7:g:1409:ILE:HG22	7:g:1410:VAL:N	2.14	0.62
2:j:1232:LEU:HD21	2:j:1325:VAL:HG21	1.79	0.62
2:j:1411:MET:O	2:j:1415:VAL:HG23	1.98	0.62
3:k:1112:ILE:C	3:k:1114:LYS:H	2.06	0.62
3:k:1142:PRO:HB3	3:k:1410:PRO:HB2	1.81	0.62
7:o:1079:ALA:O	7:o:1082:THR:HG22	1.99	0.62
7:o:1189:LEU:N	7:o:1190:ASP:HB2	2.14	0.62
1:A:158:ASN:ND2	1:A:516:GLY:HA2	2.13	0.62
2:B:38:GLY:HA3	2:B:474:LEU:CD1	2.29	0.62
5:E:273:THR:HG22	5:E:363:VAL:O	1.99	0.62
6:F:109:ILE:HG13	5:M:39:LYS:NZ	2.11	0.62
7:G:409:ILE:HG22	7:G:410:VAL:N	2.14	0.62
8:H:227:VAL:HG21	8:H:385:ILE:HD11	1.81	0.62
2:J:230:LYS:H	2:J:281:ILE:HG22	1.62	0.62
2:J:436:ALA:O	2:J:439:GLN:HB3	1.99	0.62
3:K:35:ILE:HD11	3:K:65:LEU:HG	1.80	0.62
7:O:79:ALA:O	7:O:82:THR:HG22	1.99	0.62
7:O:214:PHE:HD1	7:O:376:LEU:HB3	1.64	0.62
8:P:227:VAL:HG21	8:P:385:ILE:HD11	1.81	0.62
2:b:1436:ALA:O	2:b:1439:GLN:HB3	2.00	0.62
4:d:1210:ILE:O	4:d:1375:VAL:HG13	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1109:MET:SD	7:g:1514:THR:HG22	2.39	0.62
1:i:1224:LEU:HD13	1:i:1226:CYS:HB2	1.80	0.62
7:o:1109:MET:SD	7:o:1514:THR:HG22	2.39	0.62
8:p:1430:LEU:HD13	8:p:1434:ILE:HD11	1.79	0.62
6:F:143:LEU:HA	6:F:144:SER:C	2.24	0.62
6:F:481:GLN:O	6:F:489:VAL:HG21	1.99	0.62
2:b:1038:GLY:HA3	2:b:1474:LEU:CD1	2.29	0.62
2:b:1492:LYS:H	2:b:1492:LYS:NZ	1.97	0.62
4:d:1292:ILE:HG13	4:d:1293:LEU:HA	1.81	0.62
5:e:1273:THR:HG22	5:e:1363:VAL:O	1.99	0.62
5:e:1283:THR:HG22	5:e:1284:LYS:H	1.64	0.62
6:f:1330:LEU:CB	6:f:1375:SER:OG	2.47	0.62
6:f:1433:LYS:HB3	6:f:1441:LYS:HA	1.80	0.62
7:g:1189:LEU:N	7:g:1190:ASP:HB2	2.14	0.62
8:h:1024:ALA:O	8:h:1028:ILE:HG13	1.98	0.62
1:i:1090:GLN:OE1	1:i:1096:ASP:O	2.17	0.62
2:j:1492:LYS:HE2	2:j:1493:LEU:N	2.12	0.62
8:p:1441:THR:O	8:p:1446:GLN:HG2	2.00	0.62
3:C:320:VAL:O	3:C:321:LYS:C	2.41	0.62
4:D:292:ILE:HG13	4:D:293:LEU:HA	1.82	0.62
5:E:174:GLU:O	5:E:175:LEU:CG	2.47	0.62
7:G:109:MET:SD	7:G:514:THR:HG22	2.39	0.62
2:J:38:GLY:HA3	2:J:474:LEU:CD1	2.29	0.62
3:K:223:VAL:HG12	3:K:224:LEU:H	1.63	0.62
4:L:375:VAL:HG12	4:L:376:SER:H	1.64	0.62
1:a:1090:GLN:OE1	1:a:1096:ASP:O	2.17	0.62
2:b:1098:LEU:O	2:b:1102:LEU:HB2	1.99	0.62
2:b:1464:TYR:O	2:b:1467:ILE:HD11	2.00	0.62
4:d:1214:VAL:HG22	4:d:1362:ARG:HG2	1.80	0.62
4:d:1250:ASN:HA	7:g:1259:VAL:CG1	2.26	0.62
6:f:1430:ASN:C	6:f:1433:LYS:HB2	2.24	0.62
7:g:1079:ALA:O	7:g:1082:THR:HG22	1.99	0.62
3:k:1122:ILE:HD13	3:k:1522:ARG:HG2	1.79	0.62
5:m:1348:GLY:O	5:m:1351:LEU:HD11	2.00	0.62
6:n:1007:ASN:OD1	6:n:1008:PRO:HD2	1.99	0.62
6:n:1430:ASN:C	6:n:1433:LYS:HB2	2.24	0.62
6:n:1434:LEU:O	6:n:1438:GLY:CA	2.45	0.62
1:A:184:LEU:CD2	1:A:198:TYR:CG	2.69	0.62
2:B:98:LEU:O	2:B:102:LEU:HB2	1.99	0.62
5:E:401:THR:O	5:E:402:LYS:CB	2.46	0.62
8:H:375:GLN:N	8:H:376:GLY:HA3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:391:GLU:O	3:K:395:ASN:HB2	1.98	0.62
4:L:210:ILE:O	4:L:375:VAL:HG13	1.98	0.62
6:N:173:ILE:HD11	6:N:209:PHE:HB3	1.82	0.62
7:O:409:ILE:HG22	7:O:410:VAL:N	2.14	0.62
8:P:24:ALA:O	8:P:28:ILE:HG13	1.99	0.62
8:P:227:VAL:HG22	8:P:370:VAL:HG12	1.81	0.62
2:b:1034:LYS:O	2:b:1036:THR:N	2.27	0.62
4:d:1375:VAL:HG12	4:d:1376:SER:H	1.64	0.62
8:h:1109:GLU:O	8:h:1113:VAL:HG23	2.00	0.62
8:h:1441:THR:O	8:h:1446:GLN:HG2	2.00	0.62
5:m:1133:ALA:O	5:m:1137:ILE:HG13	1.99	0.62
7:o:1037:GLN:HE21	7:o:1038:GLU:N	1.98	0.62
7:o:1282:LEU:HD21	7:o:1306:PHE:HB2	1.80	0.62
3:C:142:PRO:HB3	3:C:410:PRO:HB2	1.81	0.62
8:H:227:VAL:HG22	8:H:370:VAL:HG12	1.81	0.62
8:H:441:THR:O	8:H:446:GLN:HG2	2.00	0.62
1:I:224:LEU:HD13	1:I:226:CYS:HB2	1.81	0.62
2:J:236:THR:OG1	2:J:327:SER:HA	1.99	0.62
3:K:320:VAL:O	3:K:321:LYS:C	2.41	0.62
5:M:483:LEU:HD11	9:M:601:ADP:O4'	1.99	0.62
6:N:430:ASN:C	6:N:433:LYS:HB2	2.24	0.62
3:c:1042:LYS:CB	3:c:1460:ALA:CA	2.75	0.62
3:c:1223:VAL:HG11	3:c:1328:ILE:CG1	2.29	0.62
6:f:1489:VAL:O	6:f:1490:GLY:C	2.41	0.62
7:g:1191:ARG:CD	7:g:1192:ASN:N	2.61	0.62
2:j:1436:ALA:O	2:j:1439:GLN:HB3	2.00	0.62
3:k:1031:VAL:HG11	3:k:1070:VAL:HG11	1.81	0.62
3:k:1250:LEU:CG	3:k:1301:VAL:HG23	2.13	0.62
8:p:1227:VAL:HG22	8:p:1370:VAL:HG12	1.81	0.62
1:A:224:LEU:HD13	1:A:226:CYS:HB2	1.81	0.62
1:A:470:SER:H	3:K:115:ASN:CB	2.13	0.62
2:B:464:TYR:O	2:B:467:ILE:HD11	2.00	0.62
6:F:501:PRO:CB	6:F:506:ILE:HB	2.17	0.62
6:F:540:THR:O	6:F:542:LYS:CG	2.44	0.62
7:G:214:PHE:HD1	7:G:376:LEU:HB3	1.64	0.62
7:G:282:LEU:HD21	7:G:306:PHE:HB2	1.80	0.62
1:I:184:LEU:CD2	1:I:198:TYR:CG	2.69	0.62
1:I:480:TYR:O	1:I:483:ALA:HB3	2.00	0.62
2:J:375:GLN:NE2	6:N:75:LEU:HD12	2.14	0.62
3:K:495:VAL:HG23	3:K:500:TRP:HH2	1.65	0.62
6:N:481:GLN:O	6:N:489:VAL:HG21	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1005:ILE:O	3:c:1071:ALA:N	2.32	0.62
5:e:1401:THR:O	5:e:1402:LYS:CB	2.46	0.62
5:e:1433:LEU:HD11	5:e:1439:VAL:HG13	1.82	0.62
6:f:1007:ASN:OD1	6:f:1008:PRO:HD2	1.99	0.62
7:g:1413:GLY:HA2	9:g:1601:ADP:H2	1.64	0.62
7:g:1418:MET:HE3	7:g:1447:GLU:HG2	1.80	0.62
2:B:436:ALA:O	2:B:439:GLN:HB3	2.00	0.62
4:D:375:VAL:HG12	4:D:376:SER:H	1.64	0.62
5:E:133:ALA:O	5:E:137:ILE:HG13	1.99	0.62
5:E:210:ASN:H	5:E:210:ASN:HD22	1.48	0.62
6:F:155:ARG:CB	6:F:171:THR:HG21	2.30	0.62
6:F:353:LEU:HB2	6:F:368:THR:OG1	2.00	0.62
7:G:189:LEU:N	7:G:190:ASP:HB2	2.14	0.62
7:G:413:GLY:HA3	7:G:491:ASN:ND2	2.15	0.62
1:I:458:ILE:HB	1:I:459:PRO:HD3	1.81	0.62
3:K:31:VAL:HG11	3:K:70:VAL:HG11	1.81	0.62
3:K:223:VAL:HG11	3:K:328:ILE:CG1	2.29	0.62
6:N:92:THR:CG2	10:N:602:BEF:F3	2.37	0.62
8:P:213:MET:HE2	8:P:391:GLN:HG3	1.82	0.62
2:b:1003:VAL:O	2:b:1005:ILE:HG12	1.96	0.62
2:b:1509:LEU:HD23	2:b:1509:LEU:O	2.00	0.62
3:c:1462:GLY:O	3:c:1464:PRO:HD3	1.99	0.62
4:d:1521:ILE:HG23	7:g:1051:ILE:HA	1.82	0.62
6:f:1143:LEU:HD22	6:f:1145:ASN:HB3	1.79	0.62
8:h:1335:VAL:HG22	8:h:1379:SER:HB2	1.82	0.62
1:i:1458:ILE:HB	1:i:1459:PRO:HD3	1.81	0.62
3:k:1050:ASP:HB2	3:k:1051:PRO:HD2	1.82	0.62
6:n:1353:LEU:HB2	6:n:1368:THR:OG1	2.00	0.62
1:A:122:PRO:HG3	5:E:70:LEU:HD11	1.82	0.62
2:B:492:LYS:H	2:B:492:LYS:NZ	1.97	0.62
3:C:62:HIS:O	3:C:66:ARG:HG3	2.00	0.62
3:C:223:VAL:HG11	3:C:328:ILE:CG1	2.29	0.62
4:D:328:LEU:C	4:D:345:ASP:OD2	2.43	0.62
5:E:383:GLN:O	5:E:391:ARG:CB	2.47	0.62
6:F:430:ASN:C	6:F:433:LYS:HB2	2.24	0.62
8:H:131:TYR:CD2	8:H:452:PHE:HD2	2.17	0.62
2:J:8:ASP:CB	2:J:9:GLN:HA	2.22	0.62
5:M:273:THR:HG22	5:M:363:VAL:O	1.99	0.62
5:M:509:ASN:CG	5:M:523:LYS:HB2	2.24	0.62
7:O:43:THR:HG22	7:O:64:ASN:CB	2.27	0.62
5:e:1183:ALA:O	5:e:1187:SER:HB2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1433:LYS:C	6:f:1441:LYS:CB	2.72	0.62
1:i:1266:ASP:N	1:i:1267:PRO:HD2	2.15	0.62
2:j:1040:LYS:HZ2	6:n:1117:ILE:HG13	1.63	0.62
2:j:1422:ILE:HG21	2:j:1427:SER:HB3	1.79	0.62
4:l:1375:VAL:HG12	4:l:1376:SER:H	1.64	0.62
5:m:1210:ASN:H	5:m:1210:ASN:HD22	1.48	0.62
7:o:1304:THR:HA	7:o:1307:PHE:HE2	1.63	0.62
7:o:1409:ILE:HG22	7:o:1410:VAL:N	2.14	0.62
8:p:1109:GLU:O	8:p:1113:VAL:HG23	2.00	0.62
8:p:1213:MET:HE2	8:p:1391:GLN:HG3	1.82	0.62
3:C:462:GLY:O	3:C:464:PRO:HD3	1.99	0.62
5:E:348:GLY:O	5:E:351:LEU:HD11	2.00	0.62
5:E:373:LYS:HE2	6:F:311:LYS:HZ3	1.65	0.62
1:I:233:MET:HG2	1:I:311:VAL:HG22	1.82	0.62
3:K:142:PRO:HB3	3:K:410:PRO:HB2	1.81	0.62
5:M:50:HIS:HB3	5:M:100:ILE:HG21	1.82	0.62
1:a:1480:TYR:O	1:a:1483:ALA:HB3	2.00	0.62
2:b:1459:LEU:HD22	2:b:1472:LEU:CG	2.26	0.62
4:d:1521:ILE:HG23	7:g:1050:ASP:O	2.00	0.62
7:g:1214:PHE:HD1	7:g:1376:LEU:HB3	1.64	0.62
8:h:1131:TYR:CD2	8:h:1452:PHE:HD2	2.17	0.62
8:h:1213:MET:HE2	8:h:1391:GLN:HG3	1.82	0.62
5:m:1273:THR:HG22	5:m:1363:VAL:O	1.99	0.62
5:m:1433:LEU:HD11	5:m:1439:VAL:HG13	1.82	0.62
6:n:1433:LYS:C	6:n:1441:LYS:CB	2.72	0.62
3:C:495:VAL:HG23	3:C:500:TRP:HH2	1.65	0.61
4:D:521:ILE:HG23	7:G:51:ILE:CA	2.29	0.61
5:E:39:LYS:NZ	6:N:109:ILE:HG13	2.14	0.61
7:G:307:PHE:HD1	7:G:312:ILE:HG23	1.64	0.61
8:H:24:ALA:O	8:H:28:ILE:HG13	1.99	0.61
8:H:335:VAL:HG22	8:H:379:SER:HB2	1.82	0.61
1:I:266:ASP:N	1:I:267:PRO:HD2	2.15	0.61
5:M:133:ALA:O	5:M:137:ILE:HG13	1.99	0.61
7:O:418:MET:HE3	7:O:447:GLU:HG2	1.80	0.61
8:P:109:GLU:O	8:P:113:VAL:HG23	2.00	0.61
1:a:1055:ASP:HA	7:g:1527:LYS:HB3	1.82	0.61
5:e:1133:ALA:O	5:e:1137:ILE:HG13	1.99	0.61
5:e:1210:ASN:H	5:e:1210:ASN:HD22	1.48	0.61
5:e:1509:ASN:CG	5:e:1523:LYS:HB2	2.24	0.61
2:j:1509:LEU:HD23	2:j:1509:LEU:O	2.00	0.61
4:l:1528:ARG:H	4:l:1528:ARG:NE	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1509:ASN:CG	5:m:1523:LYS:HB2	2.24	0.61
6:n:1036:ASN:HB3	6:n:1057:LYS:HZ3	0.80	0.61
1:A:118:ASN:O	1:A:119:LYS:HG2	2.00	0.61
3:C:50:ASP:HB2	3:C:51:PRO:HD2	1.82	0.61
5:E:104:LEU:CD2	5:E:123:VAL:HG13	2.27	0.61
5:E:183:ALA:O	5:E:187:SER:HB2	2.00	0.61
6:F:489:VAL:O	6:F:490:GLY:C	2.41	0.61
6:F:515:ASN:HD22	6:F:516:ALA:N	1.99	0.61
8:H:213:MET:HE2	8:H:391:GLN:HG3	1.82	0.61
1:I:187:VAL:HG21	1:I:383:SER:HB3	1.83	0.61
5:M:348:GLY:O	5:M:351:LEU:HD11	2.00	0.61
6:N:229:LYS:HA	6:N:353:LEU:HD23	1.82	0.61
8:P:441:THR:O	8:P:446:GLN:HG2	1.99	0.61
3:c:1041:PRO:HA	3:c:1161:THR:HG21	1.82	0.61
7:g:1282:LEU:HD21	7:g:1306:PHE:HB2	1.80	0.61
2:j:1003:VAL:C	2:j:1005:ILE:HG21	2.24	0.61
2:j:1437:LEU:O	2:j:1441:PRO:HD2	2.01	0.61
3:k:1042:LYS:CB	3:k:1460:ALA:CA	2.75	0.61
3:k:1495:VAL:HG23	3:k:1500:TRP:HH2	1.65	0.61
5:m:1050:HIS:HB3	5:m:1100:ILE:HG21	1.82	0.61
5:m:1183:ALA:O	5:m:1187:SER:HB2	2.00	0.61
7:o:1174:ASN:N	7:o:1174:ASN:OD1	2.34	0.61
1:A:228:VAL:CG2	1:A:363:GLN:NE2	2.49	0.61
6:F:133:LEU:HD12	6:F:422:LEU:CD2	2.24	0.61
7:G:79:ALA:O	7:G:82:THR:HG22	1.99	0.61
7:G:165:ALA:HB2	7:G:399:ILE:HG21	1.82	0.61
1:I:90:GLN:OE1	1:I:96:ASP:O	2.17	0.61
1:I:118:ASN:O	1:I:119:LYS:HG2	2.00	0.61
2:J:509:LEU:O	2:J:509:LEU:HD23	2.00	0.61
3:K:50:ASP:HB2	3:K:51:PRO:HD2	1.82	0.61
5:M:174:GLU:O	5:M:175:LEU:CG	2.47	0.61
6:N:169:VAL:C	6:N:172:PRO:HD2	2.26	0.61
6:N:353:LEU:HB2	6:N:368:THR:OG1	2.00	0.61
7:O:239:PRO:HD2	7:O:349:CYS:O	2.01	0.61
7:O:413:GLY:HA3	7:O:491:ASN:ND2	2.15	0.61
1:a:1218:LEU:HD22	1:a:1219:VAL:H	1.63	0.61
2:b:1083:VAL:HG21	3:c:1384:GLY:O	1.99	0.61
6:f:1203:SER:C	6:f:1205:LYS:N	2.58	0.61
3:k:1250:LEU:CG	3:k:1301:VAL:HG21	2.24	0.61
7:o:1214:PHE:HD1	7:o:1376:LEU:HB3	1.64	0.61
1:A:233:MET:HG2	1:A:311:VAL:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:31:VAL:HG11	3:C:70:VAL:HG11	1.81	0.61
5:E:433:LEU:HD11	5:E:439:VAL:HG13	1.82	0.61
6:F:108:PHE:CE2	6:F:118:ILE:HG13	2.34	0.61
7:G:37:GLN:HE21	7:G:38:GLU:N	1.98	0.61
3:K:512:THR:HG23	8:P:389:ALA:HB1	1.82	0.61
6:N:5:LEU:CA	6:N:6:LEU:CB	2.66	0.61
7:O:191:ARG:CZ	7:O:192:ASN:N	2.61	0.61
8:P:375:GLN:N	8:P:376:GLY:HA3	2.14	0.61
2:b:1437:LEU:O	2:b:1441:PRO:HD2	2.00	0.61
3:c:1495:VAL:HG23	3:c:1500:TRP:HH2	1.65	0.61
7:g:1165:ALA:HB2	7:g:1399:ILE:HG21	1.82	0.61
7:g:1413:GLY:HA3	7:g:1491:ASN:ND2	2.15	0.61
8:h:1227:VAL:HG21	8:h:1385:ILE:HD11	1.81	0.61
2:j:1201:GLY:H	6:n:1086:ILE:HD12	1.63	0.61
2:j:1250:PHE:HA	6:n:1250:GLY:O	2.00	0.61
2:j:1357:SER:CB	2:j:1360:LYS:CB	2.69	0.61
3:k:1462:GLY:O	3:k:1464:PRO:HD3	1.99	0.61
7:o:1239:PRO:HD2	7:o:1349:CYS:O	2.01	0.61
7:o:1307:PHE:HD1	7:o:1312:ILE:HG23	1.64	0.61
2:B:437:LEU:O	2:B:441:PRO:HD2	2.01	0.61
5:E:273:THR:HG22	5:E:364:PRO:CA	2.20	0.61
6:F:433:LYS:HB3	6:F:441:LYS:HA	1.80	0.61
7:G:239:PRO:HD2	7:G:349:CYS:O	2.01	0.61
2:J:3:VAL:C	2:J:5:ILE:HG21	2.24	0.61
6:N:36:ASN:HB3	6:N:57:LYS:HZ3	0.81	0.61
6:N:454:ILE:N	6:N:455:PRO:CD	2.64	0.61
6:f:1169:VAL:C	6:f:1172:PRO:HD2	2.26	0.61
8:p:1335:VAL:HG22	8:p:1379:SER:HB2	1.82	0.61
1:A:540:ARG:O	5:E:70:LEU:HB3	2.00	0.61
3:C:41:PRO:HA	3:C:161:THR:HG21	1.82	0.61
4:D:524:ILE:CG2	7:G:52:LEU:O	2.47	0.61
5:E:509:ASN:CG	5:E:523:LYS:HB2	2.24	0.61
6:F:169:VAL:C	6:F:172:PRO:HD2	2.26	0.61
6:F:454:ILE:N	6:F:455:PRO:CD	2.64	0.61
8:H:109:GLU:O	8:H:113:VAL:HG23	2.00	0.61
2:J:203:LEU:O	2:J:204:SER:CB	2.49	0.61
3:K:149:ALA:HA	3:K:152:LYS:HG3	1.83	0.61
3:K:462:GLY:O	3:K:464:PRO:HD3	1.99	0.61
6:N:178:VAL:O	6:N:182:TYR:N	2.34	0.61
3:c:1062:HIS:O	3:c:1066:ARG:HG3	2.00	0.61
5:e:1050:HIS:HB3	5:e:1100:ILE:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1229:LYS:HA	6:f:1353:LEU:HD23	1.82	0.61
7:g:1483:PHE:CB	9:g:1601:ADP:N6	2.63	0.61
8:h:1362:GLU:HG2	8:h:1367:ARG:HA	1.82	0.61
1:i:1256:MET:HE1	1:i:1261:GLN:HA	1.83	0.61
3:k:1223:VAL:HG11	3:k:1328:ILE:CG1	2.29	0.61
6:n:1331:VAL:O	6:n:1332:THR:OG1	2.12	0.61
1:A:218:LEU:HD13	1:A:219:VAL:N	2.16	0.61
3:C:149:ALA:HA	3:C:152:LYS:HG3	1.83	0.61
6:F:7:ASN:OD1	6:F:8:PRO:HD2	1.99	0.61
1:I:70:LEU:HD23	1:I:73:LEU:HD22	1.83	0.61
1:I:256:MET:HE1	1:I:261:GLN:HA	1.83	0.61
1:I:348:GLU:N	1:I:349:THR:HB	2.16	0.61
5:M:183:ALA:O	5:M:187:SER:HB2	2.00	0.61
5:M:252:PRO:HA	5:M:255:PRO:C	2.26	0.61
7:O:307:PHE:HD1	7:O:312:ILE:HG23	1.64	0.61
8:P:131:TYR:CD2	8:P:452:PHE:HD2	2.17	0.61
8:P:335:VAL:HG22	8:P:379:SER:HB2	1.82	0.61
1:a:1218:LEU:HD13	1:a:1219:VAL:N	2.16	0.61
2:b:1203:LEU:O	2:b:1204:SER:CB	2.49	0.61
2:b:1375:GLN:NE2	6:f:1075:LEU:HD12	2.15	0.61
3:c:1031:VAL:HG11	3:c:1070:VAL:HG11	1.81	0.61
6:f:1125:ALA:HB2	6:f:1444:ILE:HG23	1.82	0.61
6:f:1173:ILE:HD11	6:f:1209:PHE:HB3	1.82	0.61
6:f:1515:ASN:HD22	6:f:1516:ALA:N	1.98	0.61
1:i:1113:ASN:HA	1:i:1116:VAL:HG22	1.83	0.61
1:i:1118:ASN:O	1:i:1119:LYS:HG2	2.00	0.61
1:i:1480:TYR:O	1:i:1483:ALA:HB3	2.00	0.61
1:A:266:ASP:N	1:A:267:PRO:HD2	2.15	0.61
1:A:348:GLU:N	1:A:349:THR:HB	2.16	0.61
4:D:499:GLN:HE22	9:D:601:ADP:C2'	2.13	0.61
6:F:173:ILE:HD11	6:F:209:PHE:HB3	1.82	0.61
6:F:178:VAL:O	6:F:182:TYR:N	2.34	0.61
6:F:437:LYS:HE2	6:F:437:LYS:HA	1.83	0.61
7:G:43:THR:HG22	7:G:64:ASN:CB	2.27	0.61
1:I:218:LEU:HD13	1:I:219:VAL:N	2.16	0.61
3:K:96:VAL:HG13	3:K:513:ALA:HB2	1.83	0.61
1:a:1187:VAL:HG21	1:a:1383:SER:HB3	1.83	0.61
5:e:1364:PRO:HG3	6:f:1307:ASP:CB	2.30	0.61
7:g:1037:GLN:HE21	7:g:1038:GLU:N	1.98	0.61
8:h:1227:VAL:HG22	8:h:1370:VAL:HG12	1.81	0.61
1:i:1065:ASP:O	1:i:1069:ILE:HB	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1233:MET:HG2	1:i:1311:VAL:HG22	1.82	0.61
3:k:1250:LEU:HG	3:k:1301:VAL:CB	2.29	0.61
5:m:1174:GLU:O	5:m:1175:LEU:CG	2.47	0.61
6:n:1125:ALA:HB2	6:n:1444:ILE:HG23	1.82	0.61
6:n:1515:ASN:HD22	6:n:1516:ALA:N	1.99	0.61
7:o:1191:ARG:HD3	7:o:1192:ASN:N	2.16	0.61
3:C:299:LYS:HA	3:C:319:ARG:CB	2.31	0.61
4:D:485:ARG:NH2	9:D:601:ADP:HN62	1.99	0.61
6:F:98:VAL:HG22	6:F:520:ALA:HA	1.83	0.61
6:F:108:PHE:CE2	6:F:118:ILE:HG21	2.36	0.61
3:K:62:HIS:O	3:K:66:ARG:HG3	2.00	0.61
6:N:7:ASN:OD1	6:N:8:PRO:CD	2.49	0.61
6:N:7:ASN:OD1	6:N:8:PRO:HD2	1.99	0.61
6:N:143:LEU:CD1	6:N:145:ASN:CG	2.74	0.61
6:N:437:LYS:HE2	6:N:437:LYS:HA	1.83	0.61
1:a:1073:LEU:O	1:a:1074:ASP:HB3	2.00	0.61
1:a:1233:MET:HG2	1:a:1311:VAL:HG22	1.82	0.61
1:a:1266:ASP:N	1:a:1267:PRO:HD2	2.15	0.61
4:d:1284:ASN:O	4:d:1310:ILE:HG23	2.01	0.61
6:f:1143:LEU:CD1	6:f:1145:ASN:CG	2.74	0.61
6:f:1178:VAL:O	6:f:1182:TYR:N	2.34	0.61
6:f:1485:GLU:HB2	6:f:1488:TYR:O	2.01	0.61
7:g:1307:PHE:HD1	7:g:1312:ILE:HG23	1.64	0.61
5:m:1252:PRO:HA	5:m:1255:PRO:C	2.26	0.61
6:n:1178:VAL:O	6:n:1182:TYR:N	2.34	0.61
7:o:1165:ALA:HB2	7:o:1399:ILE:HG21	1.82	0.61
8:p:1227:VAL:HG21	8:p:1385:ILE:HD11	1.81	0.61
1:A:73:LEU:O	1:A:74:ASP:HB3	2.01	0.61
7:G:94:VAL:HG13	7:G:95:GLY:N	2.16	0.61
2:J:464:TYR:O	2:J:467:ILE:HD11	2.00	0.61
3:K:54:GLY:O	3:K:56:VAL:HG23	2.01	0.61
6:N:35:THR:CG2	6:N:42:THR:H	2.14	0.61
3:c:1050:ASP:HB2	3:c:1051:PRO:HD2	1.82	0.61
3:c:1142:PRO:HG3	3:c:1411:SER:HA	1.83	0.61
3:c:1264:GLU:C	3:c:1265:LYS:CG	2.62	0.61
6:f:1098:VAL:HG22	6:f:1520:ALA:HA	1.83	0.61
6:f:1117:ILE:CD1	5:m:1034:ASP:CA	2.72	0.61
6:f:1155:ARG:CB	6:f:1171:THR:HG21	2.30	0.61
6:f:1437:LYS:HE2	6:f:1437:LYS:HA	1.83	0.61
1:i:1348:GLU:N	1:i:1349:THR:HB	2.16	0.61
3:k:1054:GLY:O	3:k:1056:VAL:HG23	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1062:HIS:O	3:k:1066:ARG:HG3	2.00	0.61
6:n:1007:ASN:OD1	6:n:1008:PRO:CD	2.49	0.61
6:n:1098:VAL:HG22	6:n:1520:ALA:HA	1.83	0.61
6:n:1155:ARG:CB	6:n:1171:THR:HG21	2.30	0.61
1:A:480:TYR:O	1:A:483:ALA:HB3	2.00	0.60
2:B:509:LEU:O	2:B:509:LEU:HD23	2.00	0.60
3:C:142:PRO:HG3	3:C:411:SER:HA	1.83	0.60
6:F:352:GLY:CA	6:F:369:GLU:C	2.48	0.60
8:H:138:THR:HG22	8:H:434:ILE:HD12	1.83	0.60
1:I:184:LEU:HD21	1:I:198:TYR:CB	2.28	0.60
6:N:458:LEU:HD12	6:N:458:LEU:O	2.01	0.60
1:a:1070:LEU:HD23	1:a:1073:LEU:HD22	1.83	0.60
1:a:1118:ASN:O	1:a:1119:LYS:HG2	2.00	0.60
5:e:1348:GLY:O	5:e:1351:LEU:HD11	2.00	0.60
7:g:1094:VAL:HG13	7:g:1095:GLY:N	2.16	0.60
2:j:1424:GLY:O	2:j:1427:SER:CB	2.49	0.60
2:j:1464:TYR:O	2:j:1467:ILE:HD11	2.00	0.60
6:n:1143:LEU:HA	6:n:1144:SER:C	2.24	0.60
6:n:1437:LYS:HE2	6:n:1437:LYS:HA	1.83	0.60
2:B:232:LEU:HD22	2:B:233:ILE:N	2.16	0.60
2:B:424:GLY:O	2:B:427:SER:CB	2.49	0.60
6:F:198:GLN:N	6:F:198:GLN:HE21	1.99	0.60
6:F:201:HIS:HB3	6:F:381:LYS:HZ3	1.65	0.60
2:J:295:GLU:OE1	6:N:339:SER:HB3	2.01	0.60
2:J:424:GLY:O	2:J:427:SER:CB	2.49	0.60
3:K:142:PRO:HG3	3:K:411:SER:HA	1.83	0.60
8:P:269:ASN:H	8:P:272:GLU:HG3	1.66	0.60
2:b:1384:LEU:O	2:b:1387:ALA:HB3	2.01	0.60
6:f:1458:LEU:HD12	6:f:1458:LEU:O	2.01	0.60
1:i:1218:LEU:HD13	1:i:1219:VAL:N	2.16	0.60
3:k:1299:LYS:HA	3:k:1319:ARG:CB	2.31	0.60
4:l:1284:ASN:O	4:l:1310:ILE:HG23	2.01	0.60
6:n:1229:LYS:HA	6:n:1353:LEU:HD23	1.82	0.60
2:B:27:ILE:CD1	2:B:104:ARG:HH11	2.09	0.60
2:B:397:GLU:OE1	2:B:399:ARG:HG3	2.01	0.60
2:B:422:ILE:HG21	2:B:427:SER:HB3	1.79	0.60
2:B:459:LEU:HD22	2:B:472:LEU:CG	2.26	0.60
6:F:35:THR:CG2	6:F:42:THR:H	2.14	0.60
6:F:264:ALA:O	6:F:268:LYS:HG2	2.02	0.60
6:F:478:ASP:O	6:F:482:ASP:CA	2.49	0.60
7:G:420:VAL:O	7:G:424:LEU:HG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:100:ILE:HA	5:M:103:LEU:HD12	1.83	0.60
6:N:133:LEU:HD12	6:N:422:LEU:CD2	2.24	0.60
6:N:515:ASN:HD22	6:N:516:ALA:N	1.99	0.60
2:b:1263:LYS:NZ	3:c:1266:GLU:CB	2.64	0.60
6:f:1108:PHE:CE2	6:f:1118:ILE:HG21	2.36	0.60
6:f:1193:MET:HE3	6:f:1330:LEU:CD1	2.29	0.60
7:g:1126:MET:HE1	7:g:1515:ASN:CB	2.31	0.60
8:h:1138:THR:HG22	8:h:1434:ILE:HD12	1.83	0.60
7:o:1094:VAL:HG13	7:o:1095:GLY:N	2.16	0.60
7:o:1413:GLY:HA3	7:o:1491:ASN:ND2	2.15	0.60
8:p:1362:GLU:HG2	8:p:1367:ARG:HA	1.82	0.60
3:C:512:THR:HG23	8:H:389:ALA:HB1	1.83	0.60
5:E:50:HIS:HB3	5:E:100:ILE:HG21	1.82	0.60
6:F:229:LYS:HA	6:F:353:LEU:HD23	1.82	0.60
6:F:458:LEU:HD12	6:F:458:LEU:O	2.01	0.60
1:I:73:LEU:O	1:I:74:ASP:HB3	2.00	0.60
2:J:38:GLY:HA3	2:J:474:LEU:HD11	1.83	0.60
2:J:357:SER:CB	2:J:360:LYS:CB	2.69	0.60
5:M:433:LEU:HD11	5:M:439:VAL:HG13	1.82	0.60
3:c:1457:ILE:CD1	3:c:1467:LEU:HD22	2.31	0.60
4:d:1524:ILE:HG23	7:g:1052:LEU:HD22	1.84	0.60
9:f:1601:ADP:C8	9:f:1601:ADP:O2'	2.53	0.60
7:g:1239:PRO:HD2	7:g:1349:CYS:O	2.01	0.60
8:h:1153:LYS:H	8:h:1153:LYS:CD	2.15	0.60
1:i:1073:LEU:O	1:i:1074:ASP:CB	2.50	0.60
1:i:1187:VAL:HG21	1:i:1383:SER:HB3	1.82	0.60
2:j:1203:LEU:O	2:j:1204:SER:CB	2.49	0.60
6:n:1035:THR:CG2	6:n:1042:THR:H	2.14	0.60
6:n:1167:THR:HB	6:n:1169:VAL:H	1.66	0.60
6:n:1478:ASP:O	6:n:1482:ASP:CA	2.49	0.60
2:B:4:GLN:C	2:B:5:ILE:CG2	2.73	0.60
2:B:384:LEU:O	2:B:387:ALA:HB3	2.01	0.60
4:D:284:ASN:O	4:D:310:ILE:HG23	2.01	0.60
5:E:252:PRO:HA	5:E:255:PRO:C	2.26	0.60
6:F:151:LEU:O	6:F:171:THR:CG2	2.50	0.60
3:K:9:ASN:ND2	3:K:10:ALA:N	2.50	0.60
3:K:299:LYS:HA	3:K:319:ARG:CB	2.31	0.60
4:L:284:ASN:O	4:L:310:ILE:HG23	2.01	0.60
6:N:108:PHE:CE2	6:N:118:ILE:HG21	2.36	0.60
6:N:143:LEU:HA	6:N:144:SER:C	2.24	0.60
6:N:465:ASP:CA	6:N:466:PRO:C	2.68	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:94:VAL:HG13	7:O:95:GLY:N	2.16	0.60
7:O:174:ASN:OD1	7:O:174:ASN:N	2.33	0.60
1:a:1348:GLU:N	1:a:1349:THR:HB	2.16	0.60
3:c:1096:VAL:HG13	3:c:1513:ALA:HB2	1.83	0.60
5:e:1492:ILE:HD11	2:j:1115:ILE:HG12	1.82	0.60
6:f:1035:THR:CG2	6:f:1042:THR:H	2.14	0.60
6:f:1160:THR:H	6:f:1164:ALA:HB3	1.67	0.60
7:g:1174:ASN:N	7:g:1174:ASN:OD1	2.34	0.60
7:g:1293:VAL:HG13	7:g:1312:ILE:HD11	1.84	0.60
1:i:1073:LEU:O	1:i:1074:ASP:HB3	2.01	0.60
3:k:1223:VAL:HG11	3:k:1328:ILE:HG13	1.83	0.60
5:m:1351:LEU:HD13	5:m:1351:LEU:H	1.67	0.60
6:n:1143:LEU:CD1	6:n:1145:ASN:CG	2.74	0.60
6:n:1160:THR:H	6:n:1164:ALA:HB3	1.67	0.60
8:p:1153:LYS:H	8:p:1153:LYS:CD	2.15	0.60
1:A:90:GLN:OE1	1:A:96:ASP:O	2.17	0.60
3:C:9:ASN:ND2	3:C:10:ALA:N	2.50	0.60
6:F:5:LEU:CB	6:F:6:LEU:C	2.75	0.60
6:F:7:ASN:OD1	6:F:8:PRO:CD	2.49	0.60
7:G:293:VAL:HG13	7:G:312:ILE:HD11	1.84	0.60
1:I:65:ASP:O	1:I:69:ILE:HB	2.01	0.60
1:I:113:ASN:HA	1:I:116:VAL:HG22	1.83	0.60
3:K:223:VAL:HG11	3:K:328:ILE:HG13	1.83	0.60
6:N:61:VAL:HG12	6:N:62:LEU:HD23	1.84	0.60
6:N:98:VAL:HG22	6:N:520:ALA:HA	1.83	0.60
6:N:160:THR:H	6:N:164:ALA:HB3	1.67	0.60
8:P:182:VAL:O	8:P:186:VAL:HG23	2.02	0.60
2:b:1232:LEU:HD22	2:b:1233:ILE:N	2.16	0.60
5:e:1323:CYS:O	5:e:1344:ARG:HA	2.02	0.60
6:f:1143:LEU:HA	6:f:1144:SER:C	2.24	0.60
8:h:1006:PRO:CB	4:l:1071:LEU:O	2.49	0.60
3:k:1457:ILE:CD1	3:k:1467:LEU:HD22	2.31	0.60
6:n:1458:LEU:HD12	6:n:1458:LEU:O	2.01	0.60
6:n:1485:GLU:HB2	6:n:1488:TYR:O	2.01	0.60
7:o:1043:THR:HG22	7:o:1064:ASN:CB	2.27	0.60
8:p:1138:THR:HG22	8:p:1434:ILE:HD12	1.83	0.60
2:B:3:VAL:C	2:B:5:ILE:HG21	2.25	0.60
2:B:200:GLY:O	2:B:371:GLY:N	2.28	0.60
2:B:326:VAL:HG13	3:C:304:LEU:HD22	1.83	0.60
2:B:487:ILE:HD12	9:B:601:ADP:N6	2.17	0.60
8:H:182:VAL:O	8:H:186:VAL:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:397:GLU:OE1	2:J:399:ARG:HG3	2.02	0.60
6:N:198:GLN:N	6:N:198:GLN:HE21	1.99	0.60
6:N:233:VAL:HG12	6:N:294:VAL:HG22	1.84	0.60
6:N:430:ASN:HA	6:N:433:LYS:CB	2.32	0.60
1:a:1184:LEU:CD2	1:a:1198:TYR:CG	2.69	0.60
5:e:1055:ARG:HH21	5:e:1134:LEU:HD13	1.67	0.60
5:e:1281:PRO:HD2	5:e:1285:HIS:HB3	1.84	0.60
6:f:1109:ILE:HG13	5:m:1039:LYS:HZ3	1.66	0.60
6:f:1198:GLN:N	6:f:1198:GLN:HE21	1.99	0.60
6:f:1353:LEU:HB2	6:f:1368:THR:OG1	2.00	0.60
8:h:1068:ALA:H	8:h:1101:ASN:HD21	1.49	0.60
8:h:1459:VAL:O	8:h:1463:LEU:HD23	2.02	0.60
2:j:1242:LYS:HB2	3:k:1269:TRP:CZ2	2.26	0.60
4:l:1012:LYS:HD3	4:l:1526:PHE:O	2.01	0.60
6:n:1352:GLY:CA	6:n:1369:GLU:C	2.48	0.60
1:A:187:VAL:HG21	1:A:383:SER:HB3	1.83	0.60
3:C:96:VAL:HG13	3:C:513:ALA:HB2	1.83	0.60
6:F:125:ALA:HB2	6:F:444:ILE:HG23	1.82	0.60
6:F:233:VAL:HG12	6:F:294:VAL:HG22	1.84	0.60
6:F:485:GLU:HB2	6:F:488:TYR:O	2.01	0.60
7:G:109:MET:CG	7:G:514:THR:CG2	2.79	0.60
7:G:208:ALA:HB3	7:G:211:GLU:HG3	1.84	0.60
2:J:384:LEU:O	2:J:387:ALA:HB3	2.01	0.60
2:J:437:LEU:O	2:J:441:PRO:HD2	2.00	0.60
4:L:524:ILE:CG2	7:O:52:LEU:O	2.50	0.60
5:M:210:ASN:H	5:M:210:ASN:HD22	1.48	0.60
6:N:5:LEU:CB	6:N:6:LEU:C	2.75	0.60
6:N:155:ARG:CB	6:N:171:THR:HG21	2.30	0.60
6:N:264:ALA:O	6:N:268:LYS:HG2	2.02	0.60
6:N:389:ALA:O	6:N:393:ASP:OD2	2.20	0.60
7:O:37:GLN:HE21	7:O:38:GLU:N	1.98	0.60
1:a:1183:ALA:HB1	1:a:1383:SER:OG	2.02	0.60
2:b:1424:GLY:O	2:b:1427:SER:CB	2.49	0.60
3:c:1009:ASN:ND2	3:c:1010:ALA:N	2.50	0.60
3:c:1508:GLN:HG2	8:h:1215:GLY:HA2	1.83	0.60
5:e:1034:ASP:HA	6:n:1117:ILE:HD12	1.73	0.60
5:e:1252:PRO:HA	5:e:1255:PRO:C	2.26	0.60
6:f:1007:ASN:OD1	6:f:1008:PRO:CD	2.49	0.60
6:f:1264:ALA:O	6:f:1268:LYS:HG2	2.02	0.60
2:j:1295:GLU:OE2	6:n:1338:ASN:HB2	2.01	0.60
2:j:1295:GLU:HB2	6:n:1337:GLN:NE2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1012:LYS:HZ2	7:o:1073:LEU:HD22	1.66	0.60
5:m:1273:THR:HG21	5:m:1364:PRO:HA	1.78	0.60
6:n:1173:ILE:HD11	6:n:1209:PHE:HB3	1.82	0.60
6:n:1389:ALA:O	6:n:1393:ASP:OD2	2.20	0.60
8:p:1182:VAL:O	8:p:1186:VAL:HG23	2.02	0.60
1:A:183:ALA:HB1	1:A:383:SER:OG	2.02	0.60
2:B:27:ILE:HD12	2:B:104:ARG:HD2	1.84	0.60
2:B:203:LEU:O	2:B:204:SER:CB	2.49	0.60
3:C:42:LYS:CB	3:C:460:ALA:CA	2.75	0.60
3:C:229:VAL:HG12	3:C:230:VAL:N	2.17	0.60
6:F:61:VAL:HG12	6:F:62:LEU:HD23	1.84	0.60
6:F:170:LEU:HA	6:F:173:ILE:HG22	1.84	0.60
3:K:457:ILE:CD1	3:K:467:LEU:HD22	2.31	0.60
6:N:38:GLY:H	9:N:601:ADP:H5'1	1.66	0.60
6:N:151:LEU:CG	6:N:175:THR:HG23	2.32	0.60
7:O:126:MET:HE1	7:O:515:ASN:CB	2.31	0.60
8:P:162:MET:O	8:P:165:PRO:HD2	2.02	0.60
8:P:459:VAL:O	8:P:463:LEU:HD23	2.02	0.60
1:a:1065:ASP:O	1:a:1069:ILE:HB	2.01	0.60
1:a:1256:MET:HE1	1:a:1261:GLN:HA	1.83	0.60
1:a:1333:THR:HB	1:a:1357:LEU:H	1.67	0.60
4:d:1044:MET:HE3	8:h:1531:ALA:HB2	1.84	0.60
8:h:1162:MET:O	8:h:1165:PRO:HD2	2.02	0.60
2:j:1038:GLY:HA3	2:j:1474:LEU:HD11	1.83	0.60
3:k:1009:ASN:ND2	3:k:1010:ALA:N	2.50	0.60
6:n:1169:VAL:C	6:n:1172:PRO:HD2	2.26	0.60
6:n:1264:ALA:O	6:n:1268:LYS:HG2	2.02	0.60
3:C:54:GLY:O	3:C:56:VAL:HG23	2.01	0.60
5:E:323:CYS:O	5:E:344:ARG:HA	2.02	0.60
6:F:143:LEU:CD1	6:F:145:ASN:CG	2.74	0.60
6:F:389:ALA:O	6:F:393:ASP:OD2	2.20	0.60
7:G:191:ARG:HD3	7:G:192:ASN:N	2.16	0.60
1:I:183:ALA:HB1	1:I:383:SER:OG	2.02	0.60
4:L:210:ILE:O	4:L:375:VAL:HG12	2.02	0.60
5:M:273:THR:HG21	5:M:364:PRO:HA	1.78	0.60
7:O:165:ALA:HB2	7:O:399:ILE:HG21	1.82	0.60
8:P:153:LYS:H	8:P:153:LYS:CD	2.15	0.60
1:a:1418:VAL:HG12	1:a:1419:VAL:N	2.17	0.60
5:e:1273:THR:HG21	5:e:1364:PRO:HA	1.78	0.60
6:f:1352:GLY:O	6:f:1353:LEU:O	2.20	0.60
6:f:1478:ASP:O	6:f:1482:ASP:CA	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1069:ALA:O	8:p:1015:LYS:HE2	2.02	0.60
6:n:1406:LEU:C	6:n:1407:LYS:HE3	2.27	0.60
6:n:1430:ASN:HA	6:n:1433:LYS:CB	2.32	0.60
7:o:1293:VAL:HG13	7:o:1312:ILE:HD11	1.84	0.60
1:A:333:THR:HB	1:A:357:LEU:H	1.67	0.59
3:C:258:GLN:O	8:H:264:THR:HB	2.02	0.59
6:F:352:GLY:O	6:F:353:LEU:O	2.20	0.59
8:H:162:MET:O	8:H:165:PRO:HD2	2.02	0.59
3:K:229:VAL:HG12	3:K:230:VAL:N	2.17	0.59
8:P:146:VAL:C	8:P:148:GLY:H	2.10	0.59
8:P:362:GLU:HG2	8:P:367:ARG:HA	1.82	0.59
4:d:1012:LYS:HD3	4:d:1526:PHE:O	2.01	0.59
4:d:1238:GLN:HB2	4:d:1290:LYS:HE3	1.84	0.59
6:f:1133:LEU:HD12	6:f:1422:LEU:CD2	2.24	0.59
6:f:1151:LEU:O	6:f:1171:THR:CG2	2.50	0.59
8:h:1182:VAL:O	8:h:1186:VAL:HG23	2.02	0.59
1:i:1267:PRO:HB3	1:i:1268:GLU:C	2.27	0.59
5:m:1088:ALA:CB	5:m:1119:THR:HB	2.29	0.59
5:m:1335:LEU:HD22	5:m:1340:LEU:HD11	1.84	0.59
6:n:1198:GLN:N	6:n:1198:GLN:HE21	1.99	0.59
7:o:1126:MET:HE1	7:o:1515:ASN:CB	2.31	0.59
7:o:1208:ALA:HB3	7:o:1211:GLU:HG3	1.84	0.59
3:C:457:ILE:CD1	3:C:467:LEU:HD22	2.31	0.59
4:D:71:LEU:HA	8:P:6:PRO:CG	2.31	0.59
6:F:415:ALA:CB	6:F:506:ILE:HG21	2.30	0.59
1:I:333:THR:HB	1:I:357:LEU:H	1.67	0.59
5:M:281:PRO:HD2	5:M:285:HIS:HB3	1.84	0.59
6:N:485:GLU:HB2	6:N:488:TYR:O	2.01	0.59
7:O:293:VAL:HG13	7:O:312:ILE:HD11	1.83	0.59
1:a:1073:LEU:O	1:a:1074:ASP:CB	2.50	0.59
6:f:1005:LEU:CB	6:f:1006:LEU:C	2.75	0.59
7:g:1401:LYS:HG3	7:g:1402:ARG:N	2.17	0.59
8:h:1146:VAL:C	8:h:1148:GLY:H	2.10	0.59
2:j:1005:ILE:O	3:k:1070:VAL:HA	2.02	0.59
2:j:1027:ILE:HD12	2:j:1104:ARG:HD2	1.84	0.59
2:j:1232:LEU:HD22	2:j:1233:ILE:N	2.17	0.59
3:k:1041:PRO:HA	3:k:1161:THR:HG21	1.82	0.59
3:k:1149:ALA:HA	3:k:1152:LYS:HG3	1.83	0.59
4:l:1110:LEU:HD13	4:l:1439:ILE:HD12	1.85	0.59
5:m:1240:ILE:HG12	5:m:1244:ILE:CG2	2.32	0.59
6:n:1108:PHE:CE2	6:n:1118:ILE:HG21	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:ASP:O	1:A:69:ILE:HB	2.01	0.59
2:B:213:ILE:H	2:B:213:ILE:HD12	1.67	0.59
5:E:39:LYS:HZ3	6:N:109:ILE:CG1	2.15	0.59
6:F:92:THR:HG21	10:F:602:BEF:F3	1.92	0.59
6:F:201:HIS:HB3	6:F:381:LYS:CE	2.32	0.59
6:F:406:LEU:C	6:F:407:LYS:HE3	2.27	0.59
7:G:174:ASN:OD1	7:G:174:ASN:N	2.34	0.59
8:H:153:LYS:H	8:H:153:LYS:CD	2.15	0.59
8:H:177:ILE:O	8:H:180:GLU:HB2	2.03	0.59
1:I:97:GLY:O	1:I:101:VAL:HG23	2.02	0.59
3:K:42:LYS:CB	3:K:460:ALA:CA	2.75	0.59
5:M:74:LEU:CD1	5:M:93:GLN:HB3	2.33	0.59
5:M:351:LEU:HD13	5:M:351:LEU:H	1.67	0.59
6:N:151:LEU:O	6:N:171:THR:CG2	2.50	0.59
6:N:167:THR:HB	6:N:169:VAL:H	1.66	0.59
7:O:189:LEU:O	7:O:189:LEU:CD1	2.50	0.59
7:O:401:LYS:HG3	7:O:402:ARG:N	2.17	0.59
8:P:138:THR:HG22	8:P:434:ILE:HD12	1.83	0.59
1:a:1113:ASN:HA	1:a:1116:VAL:HG22	1.83	0.59
2:b:1348:LEU:HD21	6:f:1086:ILE:CA	2.20	0.59
3:c:1223:VAL:HG11	3:c:1328:ILE:HG13	1.83	0.59
6:f:1389:ALA:O	6:f:1393:ASP:OD2	2.20	0.59
6:f:1454:ILE:N	6:f:1455:PRO:CD	2.64	0.59
8:h:1288:MET:CE	8:h:1313:LEU:HG	2.32	0.59
1:i:1070:LEU:HD23	1:i:1073:LEU:HD22	1.83	0.59
1:i:1418:VAL:HG12	1:i:1419:VAL:N	2.17	0.59
2:j:1384:LEU:O	2:j:1387:ALA:HB3	2.01	0.59
6:n:1352:GLY:O	6:n:1353:LEU:O	2.20	0.59
8:p:1146:VAL:C	8:p:1148:GLY:H	2.10	0.59
1:A:97:GLY:O	1:A:101:VAL:HG23	2.02	0.59
1:A:113:ASN:HA	1:A:116:VAL:HG22	1.83	0.59
3:C:57:LEU:N	3:C:57:LEU:CD2	2.57	0.59
3:C:275:ILE:HA	8:H:274:LEU:HD21	1.84	0.59
4:D:81:VAL:HG22	7:G:382:ALA:HB2	1.84	0.59
4:D:238:GLN:HB2	4:D:290:LYS:HE3	1.84	0.59
6:F:430:ASN:HA	6:F:433:LYS:CB	2.32	0.59
4:L:44:MET:HG3	8:P:531:ALA:HB3	1.83	0.59
5:M:55:ARG:HH21	5:M:134:LEU:HD13	1.67	0.59
6:N:478:ASP:O	6:N:482:ASP:CA	2.49	0.59
7:O:109:MET:CG	7:O:514:THR:CG2	2.79	0.59
8:P:146:VAL:HG13	8:P:147:VAL:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:177:ILE:O	8:P:180:GLU:HB2	2.03	0.59
2:b:1072:PRO:CG	3:c:1047:MET:HE1	2.32	0.59
6:f:1201:HIS:HB3	6:f:1381:LYS:CE	2.32	0.59
6:f:1430:ASN:HA	6:f:1433:LYS:CB	2.32	0.59
8:h:1094:ILE:HD12	8:h:1095:ASP:N	2.18	0.59
8:h:1322:LYS:O	8:h:1324:PRO:HD3	2.02	0.59
3:k:1096:VAL:HG13	3:k:1513:ALA:HB2	1.83	0.59
3:k:1250:LEU:CD1	3:k:1301:VAL:CG2	2.72	0.59
6:n:1454:ILE:N	6:n:1455:PRO:CD	2.64	0.59
8:p:1094:ILE:HD12	8:p:1095:ASP:N	2.18	0.59
8:p:1322:LYS:O	8:p:1324:PRO:HD3	2.02	0.59
1:A:70:LEU:HD23	1:A:73:LEU:HD22	1.83	0.59
1:A:256:MET:HE1	1:A:261:GLN:HA	1.83	0.59
3:C:223:VAL:HG11	3:C:328:ILE:HG13	1.83	0.59
6:F:485:GLU:HG3	6:F:489:VAL:HB	1.85	0.59
8:H:362:GLU:HG2	8:H:367:ARG:HA	1.82	0.59
8:H:459:VAL:O	8:H:463:LEU:HD23	2.02	0.59
1:I:159:ILE:HD11	1:I:418:VAL:HG11	1.84	0.59
1:I:418:VAL:HG12	1:I:419:VAL:N	2.17	0.59
3:K:41:PRO:HA	3:K:161:THR:HG21	1.82	0.59
4:L:12:LYS:HD3	4:L:526:PHE:O	2.01	0.59
4:L:254:VAL:HG23	4:L:254:VAL:O	2.01	0.59
1:a:1097:GLY:O	1:a:1101:VAL:HG23	2.02	0.59
3:c:1054:GLY:O	3:c:1056:VAL:HG23	2.01	0.59
3:c:1149:ALA:HA	3:c:1152:LYS:HG3	1.83	0.59
3:c:1299:LYS:HA	3:c:1319:ARG:CB	2.31	0.59
4:d:1089:ALA:HB1	4:d:1503:VAL:HG22	1.85	0.59
4:d:1254:VAL:HG23	4:d:1254:VAL:O	2.02	0.59
5:e:1100:ILE:HA	5:e:1103:LEU:HD12	1.83	0.59
5:e:1335:LEU:HD22	5:e:1340:LEU:HD11	1.84	0.59
5:e:1352:GLU:HA	6:f:1222:PRO:HG3	1.84	0.59
6:f:1154:ALA:O	6:f:1157:SER:OG	2.12	0.59
6:f:1201:HIS:HB3	6:f:1381:LYS:HZ3	1.68	0.59
6:f:1485:GLU:HG3	6:f:1489:VAL:HB	1.85	0.59
8:h:1177:ILE:O	8:h:1180:GLU:HB2	2.03	0.59
3:k:1229:VAL:HG12	3:k:1230:VAL:N	2.17	0.59
4:l:1379:ILE:H	4:l:1379:ILE:HD12	1.68	0.59
5:m:1074:LEU:CD1	5:m:1093:GLN:HB3	2.33	0.59
7:o:1191:ARG:CD	7:o:1192:ASN:N	2.61	0.59
8:p:1288:MET:CE	8:p:1313:LEU:HG	2.33	0.59
4:D:12:LYS:HD3	4:D:526:PHE:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:241:ASN:O	5:E:241:ASN:ND2	2.34	0.59
6:N:125:ALA:HB2	6:N:444:ILE:HG23	1.82	0.59
8:P:322:LYS:O	8:P:324:PRO:HD3	2.02	0.59
2:b:1038:GLY:HA3	2:b:1474:LEU:HD11	1.83	0.59
4:d:1147:ARG:HG2	4:d:1148:GLU:N	2.18	0.59
7:g:1191:ARG:HD3	7:g:1192:ASN:N	2.16	0.59
3:k:1142:PRO:HG3	3:k:1411:SER:HA	1.83	0.59
4:l:1210:ILE:O	4:l:1375:VAL:HG12	2.02	0.59
5:m:1100:ILE:HA	5:m:1103:LEU:HD12	1.83	0.59
5:m:1253:GLN:H	5:m:1254:MET:CB	2.16	0.59
6:n:1005:LEU:CB	6:n:1006:LEU:C	2.75	0.59
6:n:1105:ALA:C	6:n:1107:ARG:H	2.10	0.59
6:n:1151:LEU:O	6:n:1171:THR:CG2	2.50	0.59
8:p:1177:ILE:O	8:p:1180:GLU:HB2	2.02	0.59
1:A:73:LEU:O	1:A:74:ASP:CB	2.50	0.59
4:D:336:ILE:HG23	4:D:339:PHE:HB3	1.85	0.59
4:D:379:ILE:H	4:D:379:ILE:HD12	1.68	0.59
5:E:351:LEU:HD13	5:E:351:LEU:H	1.67	0.59
7:G:126:MET:HE1	7:G:515:ASN:CB	2.31	0.59
8:H:269:ASN:H	8:H:272:GLU:HG3	1.66	0.59
8:H:322:LYS:O	8:H:324:PRO:HD3	2.02	0.59
1:I:73:LEU:O	1:I:74:ASP:CB	2.50	0.59
2:J:27:ILE:HD12	2:J:104:ARG:HD2	1.83	0.59
3:K:414:PRO:O	3:K:418:ALA:HB3	2.03	0.59
4:L:336:ILE:HG23	4:L:339:PHE:HB3	1.85	0.59
5:M:32:VAL:HG22	5:M:33:LYS:N	2.13	0.59
2:b:1397:GLU:OE1	2:b:1399:ARG:HG3	2.02	0.59
4:d:1298:ASN:HB3	4:d:1299:ASP:HA	1.84	0.59
5:e:1240:ILE:HG12	5:e:1244:ILE:CG2	2.32	0.59
1:i:1183:ALA:HB1	1:i:1383:SER:OG	2.02	0.59
2:j:1263:LYS:HZ3	3:k:1266:GLU:CG	2.14	0.59
3:k:1452:ILE:HB	3:k:1453:PRO:HD3	1.85	0.59
5:m:1323:CYS:O	5:m:1344:ARG:HA	2.02	0.59
6:n:1154:ALA:O	6:n:1157:SER:OG	2.12	0.59
6:n:1540:THR:O	6:n:1541:LEU:HD23	2.03	0.59
7:o:1484:GLU:CB	7:o:1485:THR:HA	2.32	0.59
8:p:1146:VAL:HG13	8:p:1147:VAL:H	1.68	0.59
1:A:164:MET:O	1:A:167:LYS:CB	2.51	0.59
2:B:326:VAL:HG22	3:C:304:LEU:HD22	1.85	0.59
4:D:521:ILE:CG2	7:G:52:LEU:H	2.15	0.59
5:E:74:LEU:CD1	5:E:93:GLN:HB3	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:238:ASN:N	7:G:239:PRO:CD	2.66	0.59
8:H:94:ILE:HD12	8:H:95:ASP:N	2.18	0.59
2:J:32:LEU:CD1	6:N:532:GLU:OE2	2.51	0.59
6:N:201:HIS:HB3	6:N:381:LYS:CE	2.33	0.59
6:N:540:THR:O	6:N:541:LEU:HD23	2.03	0.59
7:O:191:ARG:HD3	7:O:192:ASN:N	2.16	0.59
1:a:1159:ILE:HD11	1:a:1418:VAL:HG11	1.84	0.59
4:d:1210:ILE:O	4:d:1375:VAL:HG12	2.02	0.59
6:f:1231:ALA:HB1	6:f:1293:PHE:N	2.18	0.59
6:f:1406:LEU:C	6:f:1407:LYS:HE3	2.27	0.59
6:f:1415:ALA:CB	6:f:1506:ILE:HG21	2.30	0.59
1:i:1184:LEU:CD2	1:i:1184:LEU:C	2.76	0.59
4:l:1336:ILE:HG23	4:l:1339:PHE:HB3	1.85	0.59
6:n:1485:GLU:HG3	6:n:1489:VAL:HB	1.85	0.59
3:C:414:PRO:O	3:C:418:ALA:HB3	2.03	0.59
4:D:103:LEU:HD13	4:D:515:VAL:HG21	1.85	0.59
4:D:330:CYS:N	4:D:345:ASP:OD2	2.36	0.59
5:E:240:ILE:HG12	5:E:244:ILE:CG2	2.32	0.59
5:E:335:LEU:HD22	5:E:340:LEU:HD11	1.84	0.59
6:F:109:ILE:O	5:M:39:LYS:HE2	2.02	0.59
2:J:232:LEU:HD22	2:J:233:ILE:N	2.17	0.59
6:N:352:GLY:O	6:N:353:LEU:O	2.20	0.59
1:a:1158:ASN:CG	1:a:1516:GLY:HA2	2.28	0.59
2:b:1213:ILE:H	2:b:1213:ILE:HD12	1.67	0.59
6:f:1280:LEU:HD13	6:f:1343:LEU:HD21	1.85	0.59
1:i:1350:PHE:CE2	1:i:1354:TYR:CB	2.85	0.59
2:j:1397:GLU:OE1	2:j:1399:ARG:HG3	2.01	0.59
3:k:1296:ILE:HG23	3:k:1320:VAL:HG21	1.85	0.59
4:l:1147:ARG:HG2	4:l:1148:GLU:N	2.18	0.59
5:m:1032:VAL:HG22	5:m:1033:LYS:N	2.13	0.59
6:n:1201:HIS:HB3	6:n:1381:LYS:CE	2.32	0.59
6:n:1280:LEU:HD13	6:n:1343:LEU:HD21	1.85	0.59
7:o:1393:LEU:HD22	7:o:1397:ILE:HG13	1.85	0.59
8:p:1269:ASN:H	8:p:1272:GLU:HG3	1.66	0.59
1:A:267:PRO:HB3	1:A:268:GLU:C	2.28	0.59
3:C:508:GLN:HG2	8:H:215:GLY:HA2	1.85	0.59
5:E:281:PRO:HD2	5:E:285:HIS:HB3	1.84	0.59
5:E:373:LYS:HE2	6:F:311:LYS:NZ	2.18	0.59
6:F:43:LEU:CD2	6:F:57:LYS:CB	2.78	0.59
6:F:433:LYS:HG3	6:F:444:ILE:CG1	2.33	0.59
8:H:217:LEU:HA	8:H:387:ARG:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:288:MET:CE	8:H:313:LEU:HG	2.33	0.59
5:M:544:LEU:HD23	6:N:384:THR:HG21	1.85	0.59
6:N:201:HIS:HB3	6:N:381:LYS:HE2	1.85	0.59
6:N:406:LEU:C	6:N:407:LYS:HE3	2.27	0.59
7:O:484:GLU:CB	7:O:485:THR:HA	2.32	0.59
2:b:1003:VAL:C	2:b:1005:ILE:HG21	2.24	0.59
3:c:1414:PRO:O	3:c:1418:ALA:HB3	2.03	0.59
4:d:1065:LEU:HD13	4:d:1079:VAL:HG13	1.85	0.59
5:e:1074:LEU:CD1	5:e:1093:GLN:HB3	2.32	0.59
6:f:1057:LYS:HG2	6:f:1057:LYS:O	2.03	0.59
6:f:1061:VAL:HG12	6:f:1062:LEU:HD23	1.84	0.59
4:l:1065:LEU:HD13	4:l:1079:VAL:HG13	1.85	0.59
5:m:1068:ARG:HD3	5:m:1514:CYS:HB3	1.85	0.59
6:n:1201:HIS:HB3	6:n:1381:LYS:HE2	1.85	0.59
7:o:1109:MET:CG	7:o:1514:THR:CG2	2.79	0.59
8:p:1068:ALA:H	8:p:1101:ASN:HD21	1.49	0.59
3:C:151:MET:O	3:C:155:ILE:HG12	2.04	0.58
3:C:265:LYS:O	3:C:268:ASP:OD1	2.21	0.58
5:E:55:ARG:HH21	5:E:134:LEU:HD13	1.67	0.58
5:E:100:ILE:HA	5:E:103:LEU:HD12	1.83	0.58
5:E:350:GLU:O	5:E:351:LEU:C	2.46	0.58
6:F:57:LYS:O	6:F:57:LYS:HG2	2.03	0.58
6:F:160:THR:H	6:F:164:ALA:HB3	1.67	0.58
4:L:128:ALA:O	4:L:132:VAL:HG23	2.03	0.58
4:L:334:ALA:HB3	7:O:305:GLN:HB2	1.84	0.58
2:b:1027:ILE:HD12	2:b:1104:ARG:HD2	1.83	0.58
2:b:1463:ILE:HG13	2:b:1468:SER:HA	1.85	0.58
3:c:1151:MET:O	3:c:1155:ILE:HG12	2.03	0.58
3:c:1229:VAL:HG12	3:c:1230:VAL:N	2.17	0.58
3:c:1452:ILE:HB	3:c:1453:PRO:HD3	1.84	0.58
4:d:1182:SER:HB2	4:d:1187:LYS:HE2	1.85	0.58
5:e:1068:ARG:HD3	5:e:1514:CYS:HB3	1.85	0.58
5:e:1253:GLN:H	5:e:1254:MET:CB	2.16	0.58
7:g:1125:ILE:HG22	7:g:1129:TYR:CE2	2.38	0.58
8:h:1146:VAL:HG13	8:h:1147:VAL:H	1.68	0.58
8:h:1427:GLU:HG2	8:h:1459:VAL:HG21	1.85	0.58
1:i:1333:THR:HB	1:i:1357:LEU:H	1.67	0.58
6:n:1203:SER:C	6:n:1205:LYS:N	2.58	0.58
6:n:1233:VAL:HG12	6:n:1294:VAL:HG22	1.84	0.58
7:o:1125:ILE:HG22	7:o:1129:TYR:CE2	2.38	0.58
8:p:1162:MET:O	8:p:1165:PRO:HD2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:GLY:HA3	5:E:95:GLU:OE2	2.03	0.58
5:E:544:LEU:HD23	6:F:384:THR:CG2	2.33	0.58
6:F:33:LEU:HD21	6:F:63:LEU:HD21	1.85	0.58
7:G:189:LEU:O	7:G:189:LEU:CD1	2.50	0.58
1:I:158:ASN:CG	1:I:516:GLY:HA2	2.28	0.58
2:J:72:PRO:HB3	3:K:47:MET:HE1	1.84	0.58
2:J:463:ILE:HG13	2:J:468:SER:HA	1.85	0.58
3:K:151:MET:O	3:K:155:ILE:HG12	2.04	0.58
6:N:433:LYS:HG3	6:N:444:ILE:CG1	2.33	0.58
6:N:485:GLU:HG3	6:N:489:VAL:HB	1.85	0.58
7:O:455:GLU:CG	7:O:461:ALA:CB	2.81	0.58
8:P:94:ILE:HD12	8:P:95:ASP:N	2.18	0.58
1:a:1164:MET:O	1:a:1167:LYS:CB	2.51	0.58
4:d:1103:LEU:HD13	4:d:1515:VAL:HG21	1.85	0.58
6:f:1125:ALA:HA	6:f:1426:LEU:HD21	1.85	0.58
7:g:1109:MET:CG	7:g:1514:THR:CG2	2.79	0.58
7:g:1238:ASN:N	7:g:1239:PRO:CD	2.66	0.58
7:g:1484:GLU:CB	7:g:1485:THR:HA	2.32	0.58
1:i:1097:GLY:O	1:i:1101:VAL:HG23	2.02	0.58
3:k:1265:LYS:O	3:k:1268:ASP:OD1	2.21	0.58
4:l:1089:ALA:HB1	4:l:1503:VAL:HG22	1.85	0.58
4:l:1128:ALA:O	4:l:1132:VAL:HG23	2.03	0.58
8:p:1069:ALA:HB2	8:p:1100:THR:HB	1.85	0.58
6:F:5:LEU:CA	6:F:6:LEU:CB	2.66	0.58
6:F:280:LEU:HD13	6:F:343:LEU:HD21	1.85	0.58
1:I:55:ASP:HB2	1:I:59:ASP:HB2	1.85	0.58
2:J:213:ILE:H	2:J:213:ILE:HD12	1.67	0.58
5:M:240:ILE:HG12	5:M:244:ILE:CG2	2.32	0.58
6:N:201:HIS:CB	6:N:381:LYS:HE2	2.34	0.58
6:N:424:ARG:HA	6:N:424:ARG:NE	2.12	0.58
7:O:125:ILE:HG22	7:O:129:TYR:CE2	2.38	0.58
1:a:1333:THR:HG22	1:a:1377:THR:HG22	1.86	0.58
3:c:1084:THR:HG21	8:h:1389:ALA:HA	1.86	0.58
6:f:1033:LEU:HD21	6:f:1063:LEU:HD21	1.85	0.58
6:f:1233:VAL:HG12	6:f:1294:VAL:HG22	1.84	0.58
6:f:1540:THR:O	6:f:1541:LEU:HD23	2.03	0.58
1:i:1247:LEU:O	1:i:1298:THR:HA	2.04	0.58
2:j:1032:LEU:HG	6:n:1532:GLU:OE1	2.02	0.58
3:k:1151:MET:O	3:k:1155:ILE:HG12	2.04	0.58
3:k:1335:THR:HB	8:p:1237:LYS:HE2	1.85	0.58
3:k:1512:THR:HG23	8:p:1389:ALA:HB1	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1054:ILE:HG13	8:p:1064:ILE:CG1	2.15	0.58
2:B:357:SER:CB	2:B:360:LYS:CB	2.69	0.58
2:B:422:ILE:CB	2:B:427:SER:CB	2.79	0.58
4:D:110:LEU:HD13	4:D:439:ILE:HD12	1.85	0.58
4:D:147:ARG:HG2	4:D:148:GLU:N	2.18	0.58
5:E:253:GLN:H	5:E:254:MET:CB	2.16	0.58
8:H:48:PRO:HA	8:H:169:SER:O	2.04	0.58
1:I:164:MET:O	1:I:167:LYS:CB	2.51	0.58
3:K:452:ILE:HB	3:K:453:PRO:HD3	1.85	0.58
4:L:298:ASN:HB3	4:L:299:ASP:HA	1.84	0.58
8:P:217:LEU:HA	8:P:387:ARG:O	2.03	0.58
8:P:222:VAL:HG22	8:P:384:ILE:HG23	1.86	0.58
1:a:1184:LEU:CD2	1:a:1184:LEU:C	2.76	0.58
1:a:1267:PRO:HB3	1:a:1268:GLU:C	2.28	0.58
5:e:1351:LEU:HD13	5:e:1351:LEU:H	1.67	0.58
8:h:1269:ASN:H	8:h:1272:GLU:HG3	1.66	0.58
4:l:1254:VAL:HG23	4:l:1254:VAL:O	2.02	0.58
5:m:1267:VAL:HA	5:m:1319:ASP:OD2	2.04	0.58
6:n:1201:HIS:CB	6:n:1381:LYS:HE2	2.34	0.58
1:A:333:THR:HG22	1:A:377:THR:HG22	1.86	0.58
3:C:452:ILE:HB	3:C:453:PRO:HD3	1.85	0.58
4:D:254:VAL:HG23	4:D:254:VAL:O	2.02	0.58
6:F:105:ALA:C	6:F:107:ARG:H	2.10	0.58
6:F:109:ILE:CG1	5:M:39:LYS:HZ3	2.13	0.58
7:G:126:MET:HE1	7:G:515:ASN:CA	2.33	0.58
7:G:218:VAL:HA	7:G:375:THR:HG21	1.86	0.58
8:H:69:ALA:HB2	8:H:100:THR:HB	1.85	0.58
1:I:267:PRO:HB3	1:I:268:GLU:C	2.28	0.58
2:J:373:THR:CG2	2:J:375:GLN:HG2	2.34	0.58
4:L:238:GLN:HB2	4:L:290:LYS:HE3	1.84	0.58
5:M:335:LEU:HD22	5:M:340:LEU:HD11	1.84	0.58
6:N:155:ARG:CB	6:N:171:THR:OG1	2.52	0.58
3:c:1265:LYS:O	3:c:1268:ASP:OD1	2.21	0.58
5:e:1267:VAL:HA	5:e:1319:ASP:OD2	2.04	0.58
5:e:1273:THR:HG22	5:e:1364:PRO:CA	2.20	0.58
6:f:1151:LEU:O	6:f:1171:THR:HG22	2.04	0.58
6:f:1201:HIS:CB	6:f:1381:LYS:HE2	2.34	0.58
8:h:1048:PRO:HA	8:h:1169:SER:O	2.03	0.58
1:i:1158:ASN:CG	1:i:1516:GLY:HA2	2.28	0.58
2:j:1373:THR:CG2	2:j:1375:GLN:HG2	2.34	0.58
2:j:1375:GLN:HE22	6:n:1075:LEU:HB2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1104:LEU:HD11	4:l:1518:ILE:HD12	1.86	0.58
4:l:1238:GLN:HB2	4:l:1290:LYS:HE3	1.84	0.58
4:l:1298:ASN:HB3	4:l:1299:ASP:HA	1.84	0.58
5:m:1352:GLU:HA	6:n:1222:PRO:CG	2.33	0.58
6:n:1175:THR:O	6:n:1179:LEU:HG	2.04	0.58
7:o:1238:ASN:N	7:o:1239:PRO:CD	2.66	0.58
1:A:159:ILE:HD11	1:A:418:VAL:HG11	1.84	0.58
1:A:184:LEU:CD2	1:A:184:LEU:C	2.76	0.58
1:A:247:LEU:O	1:A:298:THR:HA	2.04	0.58
2:B:38:GLY:HA3	2:B:474:LEU:HD11	1.84	0.58
2:B:373:THR:CG2	2:B:375:GLN:HG2	2.34	0.58
2:B:407:ALA:O	2:B:410:VAL:HG12	2.03	0.58
2:B:463:ILE:O	2:B:467:ILE:CB	2.52	0.58
3:C:296:ILE:HG23	3:C:320:VAL:HG21	1.85	0.58
4:D:128:ALA:O	4:D:132:VAL:HG23	2.03	0.58
4:D:182:SER:HB2	4:D:187:LYS:HE2	1.85	0.58
4:D:521:ILE:HG12	7:G:62:ILE:HD11	1.86	0.58
6:F:32:VAL:HB	6:F:33:LEU:HD22	1.86	0.58
6:F:201:HIS:HB3	6:F:381:LYS:HE2	1.85	0.58
6:F:201:HIS:CB	6:F:381:LYS:HE2	2.34	0.58
6:F:203:SER:C	6:F:205:LYS:N	2.58	0.58
7:G:125:ILE:HG22	7:G:129:TYR:CE2	2.38	0.58
8:H:427:GLU:HG2	8:H:459:VAL:HG21	1.85	0.58
2:J:32:LEU:HG	6:N:532:GLU:OE1	2.04	0.58
5:M:323:CYS:O	5:M:344:ARG:HA	2.02	0.58
6:N:57:LYS:O	6:N:57:LYS:HG2	2.03	0.58
6:N:105:ALA:C	6:N:107:ARG:H	2.10	0.58
3:c:1255:GLY:N	3:c:1259:THR:HG21	2.18	0.58
4:d:1305:LEU:HD21	4:d:1312:VAL:HG21	1.85	0.58
4:d:1379:ILE:H	4:d:1379:ILE:HD12	1.68	0.58
6:f:1155:ARG:CB	6:f:1171:THR:OG1	2.52	0.58
2:j:1285:ILE:HD13	2:j:1285:ILE:N	2.19	0.58
3:k:1255:GLY:N	3:k:1259:THR:HG21	2.18	0.58
4:l:1305:LEU:HD21	4:l:1312:VAL:HG21	1.85	0.58
6:n:1343:LEU:HG	6:n:1344:SER:HB3	1.85	0.58
8:p:1217:LEU:HA	8:p:1387:ARG:O	2.03	0.58
8:p:1459:VAL:O	8:p:1463:LEU:HD23	2.02	0.58
1:A:463:ALA:HB1	1:A:470:SER:HB2	1.86	0.58
2:B:159:THR:HG21	2:B:488:VAL:H	1.69	0.58
2:B:285:ILE:HD13	2:B:285:ILE:N	2.19	0.58
4:D:104:LEU:HD11	4:D:518:ILE:HD12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:171:ALA:HB3	4:D:172:PRO:HD3	1.86	0.58
4:D:210:ILE:O	4:D:375:VAL:HG12	2.02	0.58
6:F:66:MET:HE3	6:F:67:GLN:H	1.68	0.58
6:F:125:ALA:HA	6:F:426:LEU:HD21	1.85	0.58
6:F:401:ALA:O	6:F:405:VAL:HG23	2.04	0.58
6:F:541:LEU:HB2	6:F:542:LYS:CB	2.32	0.58
7:G:376:LEU:HD23	7:G:376:LEU:H	1.69	0.58
2:J:200:GLY:O	2:J:371:GLY:N	2.28	0.58
5:M:253:GLN:H	5:M:254:MET:CB	2.16	0.58
5:M:448:VAL:HG21	5:M:498:LEU:HD13	1.86	0.58
6:N:33:LEU:HD21	6:N:63:LEU:HD21	1.85	0.58
6:N:56:THR:HG22	6:N:390:GLN:HB2	1.86	0.58
6:N:175:THR:O	6:N:179:LEU:HG	2.04	0.58
6:N:343:LEU:HG	6:N:344:SER:HB3	1.85	0.58
7:O:126:MET:HE1	7:O:515:ASN:CA	2.33	0.58
7:O:208:ALA:HB3	7:O:211:GLU:HG3	1.84	0.58
7:O:376:LEU:HD23	7:O:376:LEU:H	1.69	0.58
1:a:1548:ASP:OD2	1:a:1548:ASP:N	2.37	0.58
2:b:1242:LYS:HD3	3:c:1269:TRP:CZ2	2.38	0.58
2:b:1285:ILE:HD13	2:b:1285:ILE:N	2.19	0.58
4:d:1521:ILE:CG2	7:g:1052:LEU:H	2.16	0.58
6:f:1175:THR:O	6:f:1179:LEU:HG	2.04	0.58
6:f:1433:LYS:HG3	6:f:1444:ILE:CG1	2.33	0.58
6:f:1447:PHE:CD2	6:f:1451:LEU:HD11	2.39	0.58
1:i:1463:ALA:HB1	1:i:1470:SER:HB2	1.86	0.58
2:j:1213:ILE:H	2:j:1213:ILE:HD12	1.67	0.58
4:l:1012:LYS:HZ2	7:o:1073:LEU:CD2	2.17	0.58
4:l:1521:ILE:CG2	7:o:1052:LEU:H	2.15	0.58
6:n:1033:LEU:HD21	6:n:1063:LEU:HD21	1.85	0.58
6:n:1061:VAL:HG12	6:n:1062:LEU:HD23	1.84	0.58
7:o:1401:LYS:HG3	7:o:1402:ARG:N	2.17	0.58
3:C:514:ILE:HA	3:C:517:ALA:HB3	1.86	0.58
4:D:258:ARG:HD2	8:H:283:GLN:NE2	2.19	0.58
6:F:151:LEU:O	6:F:171:THR:HG22	2.04	0.58
6:F:155:ARG:CB	6:F:171:THR:OG1	2.52	0.58
7:G:401:LYS:HG3	7:G:402:ARG:N	2.17	0.58
8:H:68:ALA:H	8:H:101:ASN:HD21	1.49	0.58
1:I:247:LEU:O	1:I:298:THR:HA	2.04	0.58
4:L:77:MET:HE1	7:O:384:GLN:HB2	1.84	0.58
5:M:350:GLU:O	5:M:351:LEU:C	2.46	0.58
8:P:288:MET:CE	8:P:313:LEU:HG	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1247:LEU:O	1:a:1298:THR:HA	2.04	0.58
3:c:1250:LEU:CG	3:c:1301:VAL:HG21	2.24	0.58
5:e:1350:GLU:O	5:e:1351:LEU:C	2.46	0.58
5:e:1448:VAL:HG21	5:e:1498:LEU:HD13	1.86	0.58
6:f:1117:ILE:HG12	5:m:1033:LYS:HE2	1.86	0.58
7:g:1208:ALA:HB3	7:g:1211:GLU:HG3	1.84	0.58
7:g:1393:LEU:HD22	7:g:1397:ILE:HG13	1.85	0.58
8:h:1069:ALA:HB2	8:h:1100:THR:HB	1.85	0.58
8:h:1162:MET:HE1	8:h:1411:LEU:CB	2.34	0.58
1:i:1164:MET:O	1:i:1167:LYS:CB	2.51	0.58
1:i:1184:LEU:CD2	1:i:1198:TYR:CG	2.69	0.58
1:i:1548:ASP:OD2	1:i:1548:ASP:N	2.37	0.58
4:l:1171:ALA:HB3	4:l:1172:PRO:HD3	1.86	0.58
1:A:209:HIS:HE1	7:G:89:ALA:HB2	1.69	0.58
2:B:42:MET:HE3	6:F:529:LEU:O	2.03	0.58
4:D:89:ALA:HB1	4:D:503:VAL:HG22	1.85	0.58
4:D:215:LEU:HB3	4:D:217:GLN:HG2	1.86	0.58
5:E:273:THR:HG21	5:E:364:PRO:HA	1.78	0.58
6:F:343:LEU:HG	6:F:344:SER:HB3	1.85	0.58
6:F:540:THR:O	6:F:541:LEU:HD23	2.03	0.58
1:I:93:GLU:CA	1:I:94:ILE:HD12	2.34	0.58
1:I:333:THR:HG22	1:I:377:THR:HG22	1.86	0.58
2:J:72:PRO:CG	3:K:47:MET:HE1	2.34	0.58
3:K:296:ILE:HG23	3:K:320:VAL:HG21	1.85	0.58
4:L:16:LYS:O	4:L:20:VAL:HG23	2.04	0.58
6:N:125:ALA:HA	6:N:426:LEU:HD21	1.86	0.58
6:N:415:ALA:CB	6:N:506:ILE:HG21	2.30	0.58
6:N:447:PHE:CE2	6:N:451:LEU:HD11	2.39	0.58
7:O:218:VAL:HA	7:O:375:THR:HG21	1.86	0.58
2:b:1072:PRO:HB3	3:c:1047:MET:HE1	1.86	0.58
2:b:1088:VAL:HA	2:b:1393:GLN:NE2	2.18	0.58
3:c:1296:ILE:HG23	3:c:1320:VAL:HG21	1.85	0.58
3:c:1514:ILE:HA	3:c:1517:ALA:HB3	1.86	0.58
6:f:1343:LEU:HG	6:f:1344:SER:HB3	1.85	0.58
3:k:1514:ILE:HA	3:k:1517:ALA:HB3	1.86	0.58
6:n:1170:LEU:HA	6:n:1173:ILE:HG22	1.84	0.58
6:n:1415:ALA:CB	6:n:1506:ILE:HG21	2.30	0.58
1:A:55:ASP:HB2	1:A:59:ASP:HB2	1.85	0.58
1:A:158:ASN:CG	1:A:516:GLY:HA2	2.28	0.58
2:B:88:VAL:HA	2:B:393:GLN:NE2	2.19	0.58
3:C:255:GLY:N	3:C:259:THR:HG21	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:291:SER:HA	4:D:315:ASP:HA	1.86	0.58
6:F:193:MET:HE3	6:F:330:LEU:CD1	2.29	0.58
7:G:484:GLU:CB	7:G:485:THR:HA	2.32	0.58
8:H:138:THR:HG22	8:H:434:ILE:CD1	2.34	0.58
8:H:222:VAL:HG22	8:H:384:ILE:HG23	1.86	0.58
4:L:65:LEU:HD13	4:L:79:VAL:HG13	1.85	0.58
4:L:182:SER:HB2	4:L:187:LYS:HE2	1.85	0.58
4:L:521:ILE:HG23	7:O:51:ILE:CA	2.32	0.58
6:N:32:VAL:HB	6:N:33:LEU:HD22	1.86	0.58
6:N:401:ALA:O	6:N:405:VAL:HG23	2.04	0.58
6:N:411:ILE:CG2	6:N:412:ILE:H	2.16	0.58
8:P:69:ALA:HB2	8:P:100:THR:HB	1.85	0.58
8:P:138:THR:HG22	8:P:434:ILE:CD1	2.34	0.58
2:b:1373:THR:CG2	2:b:1375:GLN:HG2	2.33	0.58
6:f:1058:ASP:O	6:f:1062:LEU:HG	2.04	0.58
6:f:1066:MET:HE3	6:f:1067:GLN:H	1.68	0.58
6:f:1105:ALA:C	6:f:1107:ARG:H	2.10	0.58
6:f:1401:ALA:O	6:f:1405:VAL:HG23	2.04	0.58
7:g:1083:LEU:O	7:g:1086:ILE:HG13	2.04	0.58
7:g:1516:LEU:CD2	7:g:1516:LEU:O	2.46	0.58
8:h:1217:LEU:HA	8:h:1387:ARG:O	2.03	0.58
8:h:1243:LYS:C	8:h:1244:LYS:CG	2.77	0.58
6:n:1058:ASP:O	6:n:1062:LEU:HG	2.04	0.58
6:n:1155:ARG:CB	6:n:1171:THR:OG1	2.52	0.58
7:o:1455:GLU:CG	7:o:1461:ALA:CB	2.81	0.58
8:p:1222:VAL:HG22	8:p:1384:ILE:HG23	1.86	0.58
1:A:93:GLU:CA	1:A:94:ILE:HD12	2.34	0.57
2:B:250:PHE:HA	6:F:250:GLY:O	2.04	0.57
2:B:375:GLN:NE2	6:F:75:LEU:HD12	2.19	0.57
8:H:146:VAL:HG13	8:H:147:VAL:H	1.68	0.57
2:J:285:ILE:HD13	2:J:285:ILE:N	2.19	0.57
2:J:407:ALA:O	2:J:410:VAL:HG12	2.03	0.57
3:K:265:LYS:O	3:K:268:ASP:OD1	2.21	0.57
4:L:103:LEU:HD13	4:L:515:VAL:HG21	1.85	0.57
4:L:110:LEU:HD13	4:L:439:ILE:HD12	1.84	0.57
4:L:379:ILE:H	4:L:379:ILE:HD12	1.68	0.57
5:M:68:ARG:HD3	5:M:514:CYS:HB3	1.85	0.57
5:M:350:GLU:C	5:M:352:GLU:H	2.11	0.57
6:N:143:LEU:HD11	6:N:145:ASN:CG	2.29	0.57
6:N:451:LEU:H	6:N:451:LEU:HD12	1.69	0.57
7:O:238:ASN:N	7:O:239:PRO:CD	2.66	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:48:PRO:HA	8:P:169:SER:O	2.04	0.57
8:P:68:ALA:H	8:P:101:ASN:HD21	1.49	0.57
1:a:1350:PHE:CE2	1:a:1354:TYR:CB	2.85	0.57
1:a:1463:ALA:HB1	1:a:1470:SER:HB2	1.86	0.57
2:b:1263:LYS:HB3	2:b:1267:GLU:OE2	2.04	0.57
4:d:1128:ALA:O	4:d:1132:VAL:HG23	2.03	0.57
6:f:1016:ASP:CA	6:f:1019:LEU:HD12	2.28	0.57
6:f:1151:LEU:CG	6:f:1175:THR:HG23	2.31	0.57
6:f:1201:HIS:HB3	6:f:1381:LYS:HE2	1.85	0.57
6:f:1447:PHE:CE2	6:f:1451:LEU:HD11	2.39	0.57
7:g:1126:MET:HE1	7:g:1515:ASN:CA	2.33	0.57
1:i:1092:ARG:HB3	5:m:1388:THR:HA	1.84	0.57
1:i:1159:ILE:HD11	1:i:1418:VAL:HG11	1.84	0.57
3:k:1084:THR:HG21	8:p:1389:ALA:HA	1.85	0.57
4:l:1182:SER:HB2	4:l:1187:LYS:HE2	1.85	0.57
4:l:1291:SER:HA	4:l:1315:ASP:HA	1.86	0.57
5:m:1350:GLU:O	5:m:1351:LEU:C	2.46	0.57
6:n:1066:MET:HE3	6:n:1067:GLN:H	1.68	0.57
6:n:1151:LEU:O	6:n:1171:THR:HG22	2.04	0.57
7:o:1494:LYS:O	7:o:1495:PHE:CB	2.52	0.57
2:B:30:GLY:O	2:B:33:VAL:HG23	2.04	0.57
4:D:171:ALA:O	4:D:175:VAL:HG22	2.04	0.57
7:G:393:LEU:HD22	7:G:397:ILE:HG13	1.85	0.57
1:I:350:PHE:CE2	1:I:354:TYR:CB	2.85	0.57
3:K:255:GLY:N	3:K:259:THR:HG21	2.18	0.57
4:L:305:LEU:HD21	4:L:312:VAL:HG21	1.85	0.57
6:N:66:MET:HE3	6:N:67:GLN:H	1.68	0.57
6:N:221:HIS:HD2	6:N:224:MET:SD	2.27	0.57
7:O:516:LEU:HD13	7:O:517:ILE:N	2.20	0.57
1:a:1033:THR:OG1	1:a:1083:LEU:HD11	2.05	0.57
4:d:1069:ALA:O	8:h:1015:LYS:HE2	2.05	0.57
5:e:1350:GLU:C	5:e:1352:GLU:H	2.11	0.57
6:f:1170:LEU:HA	6:f:1173:ILE:HG22	1.84	0.57
1:i:1055:ASP:HB2	1:i:1059:ASP:HB2	1.85	0.57
4:l:1103:LEU:HD13	4:l:1515:VAL:HG21	1.85	0.57
6:n:1231:ALA:HB1	6:n:1293:PHE:N	2.18	0.57
6:n:1447:PHE:CE2	6:n:1451:LEU:HD11	2.39	0.57
7:o:1376:LEU:HD23	7:o:1376:LEU:H	1.69	0.57
8:p:1138:THR:HG22	8:p:1434:ILE:CD1	2.34	0.57
8:p:1427:GLU:HG2	8:p:1459:VAL:HG21	1.85	0.57
1:A:433:LEU:O	1:A:437:ALA:HB3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:263:LYS:HB3	2:B:267:GLU:OE2	2.04	0.57
2:B:295:GLU:HB2	6:F:337:GLN:CD	2.29	0.57
4:D:16:LYS:O	4:D:20:VAL:HG23	2.04	0.57
4:D:65:LEU:HD13	4:D:79:VAL:HG13	1.85	0.57
4:D:305:LEU:HD21	4:D:312:VAL:HG21	1.85	0.57
6:F:175:THR:O	6:F:179:LEU:HG	2.04	0.57
6:F:221:HIS:HD2	6:F:224:MET:SD	2.27	0.57
6:F:447:PHE:CD2	6:F:451:LEU:HD11	2.39	0.57
6:F:451:LEU:H	6:F:451:LEU:HD12	1.69	0.57
7:G:294:LEU:HD23	7:G:315:ALA:HB3	1.87	0.57
2:J:30:GLY:O	2:J:33:VAL:HG23	2.04	0.57
2:J:142:ASN:CB	2:J:143:SER:HA	2.18	0.57
3:K:279:GLN:O	3:K:283:MET:HG2	2.05	0.57
4:L:147:ARG:HG2	4:L:148:GLU:N	2.18	0.57
4:L:171:ALA:HB3	4:L:172:PRO:HD3	1.86	0.57
5:M:267:VAL:HA	5:M:319:ASP:OD2	2.04	0.57
5:M:273:THR:HG22	5:M:364:PRO:CA	2.20	0.57
6:N:167:THR:CA	6:N:168:GLU:HB3	2.35	0.57
6:N:231:ALA:HB1	6:N:293:PHE:N	2.18	0.57
8:P:243:LYS:C	8:P:244:LYS:CG	2.77	0.57
2:b:1004:GLN:C	2:b:1005:ILE:CG2	2.73	0.57
4:d:1110:LEU:HD13	4:d:1439:ILE:HD12	1.85	0.57
4:d:1120:ILE:HA	4:d:1123:SER:HB3	1.87	0.57
6:f:1043:LEU:CD2	6:f:1057:LYS:CB	2.78	0.57
6:f:1108:PHE:O	6:f:1113:VAL:HG23	2.04	0.57
6:f:1167:THR:HG21	6:f:1169:VAL:HG23	1.86	0.57
1:i:1093:GLU:CA	1:i:1094:ILE:HD12	2.34	0.57
1:i:1333:THR:HG22	1:i:1377:THR:HG22	1.85	0.57
4:l:1044:MET:HE3	8:p:1531:ALA:HB2	1.86	0.57
6:n:1143:LEU:HD11	6:n:1145:ASN:CG	2.29	0.57
6:n:1541:LEU:HB2	6:n:1542:LYS:HA	0.59	0.57
8:p:1204:VAL:CG2	8:p:1409:LYS:CB	2.82	0.57
8:p:1243:LYS:C	8:p:1244:LYS:CG	2.77	0.57
1:A:418:VAL:HG12	1:A:419:VAL:N	2.17	0.57
2:B:373:THR:HG22	2:B:376:THR:N	2.20	0.57
2:B:463:ILE:HG13	2:B:468:SER:HA	1.85	0.57
3:C:402:VAL:HG13	3:C:502:PRO:HG2	1.86	0.57
6:F:167:THR:HG21	6:F:169:VAL:HG23	1.86	0.57
7:G:83:LEU:O	7:G:86:ILE:HG13	2.04	0.57
7:G:282:LEU:O	7:G:285:VAL:HG12	2.05	0.57
7:G:455:GLU:CG	7:G:461:ALA:CB	2.81	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:516:LEU:HD13	7:G:517:ILE:N	2.20	0.57
1:I:90:GLN:HG3	1:I:101:VAL:CG2	2.19	0.57
1:I:184:LEU:CD2	1:I:184:LEU:C	2.76	0.57
2:J:116:HIS:HE1	2:J:118:GLN:CB	2.18	0.57
2:J:164:LYS:O	2:J:165:ILE:C	2.48	0.57
9:L:601:ADP:H5'2	9:L:601:ADP:O3B	2.04	0.57
5:M:241:ASN:O	5:M:241:ASN:ND2	2.34	0.57
6:N:170:LEU:HA	6:N:173:ILE:HG22	1.84	0.57
7:O:83:LEU:O	7:O:86:ILE:HG13	2.04	0.57
1:a:1055:ASP:HB2	1:a:1059:ASP:HB2	1.85	0.57
2:b:1049:ALA:HB1	6:f:1538:ARG:HB2	1.87	0.57
4:d:1336:ILE:HG23	4:d:1339:PHE:HB3	1.85	0.57
6:f:1221:HIS:HD2	6:f:1224:MET:SD	2.27	0.57
6:f:1352:GLY:CA	6:f:1369:GLU:C	2.48	0.57
7:g:1516:LEU:HD13	7:g:1517:ILE:N	2.20	0.57
2:j:1088:VAL:HA	2:j:1393:GLN:NE2	2.18	0.57
4:l:1016:LYS:O	4:l:1020:VAL:HG23	2.04	0.57
4:l:1171:ALA:O	4:l:1175:VAL:HG22	2.05	0.57
5:m:1281:PRO:HD2	5:m:1285:HIS:HB3	1.84	0.57
5:m:1448:VAL:HG21	5:m:1498:LEU:HD13	1.86	0.57
3:C:9:ASN:HD22	3:C:10:ALA:H	1.53	0.57
4:D:298:ASN:HB3	4:D:299:ASP:HA	1.84	0.57
6:F:231:ALA:HB1	6:F:293:PHE:N	2.18	0.57
2:J:373:THR:HG22	2:J:376:THR:N	2.20	0.57
3:K:353:GLY:H	3:K:370:ASN:HB3	1.70	0.57
4:L:89:ALA:HB1	4:L:503:VAL:HG22	1.85	0.57
4:L:171:ALA:O	4:L:175:VAL:HG22	2.05	0.57
6:N:151:LEU:O	6:N:171:THR:HG22	2.04	0.57
6:N:447:PHE:CD2	6:N:451:LEU:HD11	2.39	0.57
1:a:1093:GLU:CA	1:a:1094:ILE:HD12	2.34	0.57
3:c:1482:THR:HA	3:c:1493:ASP:HA	1.87	0.57
6:f:1167:THR:HB	6:f:1169:VAL:H	1.66	0.57
8:h:1138:THR:HG22	8:h:1434:ILE:CD1	2.34	0.57
3:k:1057:LEU:N	3:k:1057:LEU:CD2	2.57	0.57
3:k:1321:LYS:HB3	3:k:1324:ASP:HB2	1.87	0.57
3:k:1414:PRO:O	3:k:1418:ALA:HB3	2.03	0.57
3:k:1456:LEU:HD21	9:k:2101:ADP:C5'	2.30	0.57
5:m:1350:GLU:C	5:m:1352:GLU:H	2.12	0.57
6:n:1108:PHE:O	6:n:1113:VAL:HG23	2.04	0.57
6:n:1201:HIS:HB3	6:n:1381:LYS:HZ3	1.68	0.57
6:n:1401:ALA:O	6:n:1405:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1540:THR:O	6:n:1542:LYS:CG	2.44	0.57
7:o:1083:LEU:O	7:o:1086:ILE:HG13	2.04	0.57
7:o:1126:MET:HE1	7:o:1515:ASN:CA	2.33	0.57
7:o:1189:LEU:O	7:o:1189:LEU:CD1	2.50	0.57
1:A:182:ASP:O	1:A:186:ALA:HB3	2.05	0.57
3:C:113:GLU:HB2	1:I:460:LYS:HD2	1.86	0.57
6:F:58:ASP:O	6:F:62:LEU:HG	2.04	0.57
6:F:167:THR:CA	6:F:168:GLU:HB3	2.34	0.57
8:H:243:LYS:C	8:H:244:LYS:CG	2.77	0.57
8:H:486:GLU:H	8:H:487:PRO:HA	1.69	0.57
2:J:68:PRO:HG2	6:N:536:ALA:HB2	1.86	0.57
2:J:206:SER:CB	2:J:368:VAL:HG13	2.34	0.57
8:P:162:MET:HE1	8:P:411:LEU:CB	2.34	0.57
1:a:1264:ILE:O	1:a:1265:ASP:HB3	2.05	0.57
2:b:1030:GLY:O	2:b:1033:VAL:HG23	2.04	0.57
2:b:1116:HIS:HE1	2:b:1118:GLN:CB	2.18	0.57
2:b:1159:THR:HG21	2:b:1488:VAL:H	1.69	0.57
2:b:1373:THR:HG22	2:b:1376:THR:N	2.20	0.57
3:c:1279:GLN:O	3:c:1283:MET:HG2	2.05	0.57
4:d:1171:ALA:O	4:d:1175:VAL:HG22	2.04	0.57
6:f:1167:THR:CA	6:f:1168:GLU:HB3	2.34	0.57
7:g:1189:LEU:O	7:g:1189:LEU:CD1	2.50	0.57
2:j:1463:ILE:HG13	2:j:1468:SER:HA	1.85	0.57
3:k:1149:ALA:O	3:k:1153:LYS:HG2	2.05	0.57
3:k:1279:GLN:O	3:k:1283:MET:HG2	2.05	0.57
4:l:1120:ILE:HA	4:l:1123:SER:HB3	1.87	0.57
5:m:1055:ARG:HH21	5:m:1134:LEU:HD13	1.67	0.57
6:n:1056:THR:O	6:n:1062:LEU:HD21	2.05	0.57
6:n:1221:HIS:HD2	6:n:1224:MET:SD	2.27	0.57
6:n:1433:LYS:HG3	6:n:1444:ILE:CG1	2.33	0.57
7:o:1282:LEU:O	7:o:1285:VAL:HG12	2.05	0.57
7:o:1516:LEU:HD13	7:o:1517:ILE:N	2.20	0.57
8:p:1162:MET:HE1	8:p:1411:LEU:CB	2.34	0.57
6:F:56:THR:HG22	6:F:390:GLN:HB2	1.86	0.57
7:G:51:ILE:HG22	7:G:53:ILE:HG23	1.87	0.57
7:G:516:LEU:CD2	7:G:516:LEU:O	2.46	0.57
8:H:204:VAL:CG2	8:H:409:LYS:CB	2.82	0.57
1:I:329:ILE:HD13	1:I:374:ILE:HD12	1.87	0.57
2:J:88:VAL:HA	2:J:393:GLN:NE2	2.19	0.57
4:L:41:PRO:HG2	9:L:601:ADP:C6	2.40	0.57
4:L:215:LEU:HB3	4:L:217:GLN:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:291:SER:HA	4:L:315:ASP:HA	1.86	0.57
5:M:352:GLU:HA	6:N:222:PRO:HG3	1.86	0.57
6:N:108:PHE:O	6:N:113:VAL:HG23	2.04	0.57
7:O:393:LEU:HD22	7:O:397:ILE:HG13	1.85	0.57
7:O:494:LYS:O	7:O:495:PHE:CB	2.52	0.57
1:a:1329:ILE:HD13	1:a:1374:ILE:HD12	1.87	0.57
2:b:1200:GLY:O	2:b:1371:GLY:N	2.28	0.57
4:d:1177:SER:O	4:d:1181:ILE:HG12	2.05	0.57
8:h:1204:VAL:CG2	8:h:1409:LYS:CB	2.82	0.57
8:h:1222:VAL:HG22	8:h:1384:ILE:HG23	1.86	0.57
1:i:1182:ASP:O	1:i:1186:ALA:HB3	2.05	0.57
1:i:1252:GLN:HG3	1:i:1253:LYS:N	2.20	0.57
2:j:1164:LYS:O	2:j:1165:ILE:C	2.48	0.57
4:l:1177:SER:O	4:l:1181:ILE:HG12	2.05	0.57
6:n:1125:ALA:HA	6:n:1426:LEU:HD21	1.85	0.57
6:n:1447:PHE:CD2	6:n:1451:LEU:HD11	2.39	0.57
6:n:1485:GLU:O	6:n:1488:TYR:CB	2.52	0.57
2:B:43:ASP:O	6:F:530:CYS:HA	2.04	0.57
4:D:120:ILE:HA	4:D:123:SER:HB3	1.87	0.57
5:E:448:VAL:HG21	5:E:498:LEU:HD13	1.86	0.57
6:F:108:PHE:O	6:F:113:VAL:HG23	2.04	0.57
8:H:146:VAL:C	8:H:148:GLY:H	2.10	0.57
8:H:162:MET:HE1	8:H:411:LEU:CB	2.34	0.57
1:I:433:LEU:O	1:I:437:ALA:HB3	2.05	0.57
2:J:141:ASP:CG	2:J:142:ASN:H	2.13	0.57
6:N:167:THR:HG21	6:N:169:VAL:HG23	1.86	0.57
6:N:280:LEU:HD13	6:N:343:LEU:HD21	1.85	0.57
6:N:485:GLU:O	6:N:488:TYR:CB	2.52	0.57
7:O:294:LEU:HD23	7:O:315:ALA:HB3	1.86	0.57
1:a:1433:LEU:O	1:a:1437:ALA:HB3	2.05	0.57
6:f:1045:MET:HA	6:f:1054:LYS:O	2.05	0.57
6:f:1117:ILE:HD12	5:m:1034:ASP:O	2.05	0.57
6:f:1451:LEU:H	6:f:1451:LEU:HD12	1.69	0.57
7:g:1376:LEU:HD23	7:g:1376:LEU:H	1.69	0.57
7:g:1494:LYS:O	7:g:1495:PHE:CB	2.52	0.57
2:j:1030:GLY:O	2:j:1033:VAL:HG23	2.04	0.57
2:j:1263:LYS:HB3	2:j:1267:GLU:OE2	2.04	0.57
2:j:1463:ILE:O	2:j:1467:ILE:CB	2.52	0.57
6:n:1053:ILE:C	6:n:1053:ILE:CD1	2.62	0.57
6:n:1411:ILE:CG2	6:n:1412:ILE:H	2.16	0.57
6:n:1451:LEU:H	6:n:1451:LEU:HD12	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1218:VAL:HA	7:o:1375:THR:HG21	1.86	0.57
8:p:1048:PRO:HA	8:p:1169:SER:O	2.04	0.57
1:A:264:ILE:O	1:A:265:ASP:HB3	2.05	0.57
6:F:143:LEU:HD11	6:F:145:ASN:CG	2.29	0.57
1:I:33:THR:OG1	1:I:83:LEU:HD11	2.05	0.57
2:J:263:LYS:HB3	2:J:267:GLU:OE2	2.04	0.57
3:K:355:PHE:HB2	3:K:368:LEU:HD13	1.87	0.57
4:L:110:LEU:HD13	4:L:439:ILE:HG23	1.87	0.57
5:M:255:PRO:HG3	5:M:336:LEU:HA	1.87	0.57
6:N:203:SER:C	6:N:205:LYS:N	2.58	0.57
8:P:54:ILE:HG13	8:P:64:ILE:CG1	2.15	0.57
4:d:1215:LEU:HB3	4:d:1217:GLN:HG2	1.86	0.57
4:d:1524:ILE:HG23	7:g:1052:LEU:O	2.05	0.57
6:f:1143:LEU:HD11	6:f:1145:ASN:CG	2.29	0.57
7:g:1109:MET:SD	7:g:1514:THR:HB	2.45	0.57
7:g:1218:VAL:HA	7:g:1375:THR:HG21	1.86	0.57
8:h:1486:GLU:H	8:h:1487:PRO:HA	1.69	0.57
2:j:1047:GLN:OE1	2:j:1054:CYS:HB3	2.05	0.57
2:j:1213:ILE:HG23	2:j:1354:LEU:CD2	2.35	0.57
3:k:1355:PHE:HB2	3:k:1368:LEU:HD13	1.87	0.57
4:l:1110:LEU:HD13	4:l:1439:ILE:HG23	1.87	0.57
4:l:1209:MET:HA	4:l:1377:VAL:HG12	1.86	0.57
4:l:1411:ILE:HG13	4:l:1501:VAL:HG22	1.87	0.57
5:m:1074:LEU:CG	5:m:1093:GLN:HB3	2.35	0.57
6:n:1043:LEU:HD22	6:n:1057:LYS:HB2	1.84	0.57
6:n:1154:ALA:HB2	6:n:1402:VAL:HG22	1.87	0.57
6:n:1215:LEU:HB3	6:n:1217:HIS:CD2	2.36	0.57
1:A:252:GLN:HG3	1:A:253:LYS:N	2.20	0.57
4:D:12:LYS:HZ2	7:G:73:LEU:HD22	1.69	0.57
5:E:68:ARG:HD3	5:E:514:CYS:HB3	1.85	0.57
5:E:267:VAL:HA	5:E:319:ASP:OD2	2.04	0.57
6:F:6:LEU:CD1	6:F:7:ASN:H	2.18	0.57
6:F:38:GLY:N	9:F:601:ADP:H5'1	2.15	0.57
1:I:183:ALA:HB1	1:I:383:SER:HB2	1.87	0.57
2:J:91:GLY:HA2	9:J:601:ADP:O2A	2.05	0.57
2:J:463:ILE:O	2:J:467:ILE:CB	2.52	0.57
3:K:223:VAL:HG12	3:K:224:LEU:N	2.20	0.57
3:K:402:VAL:HG13	3:K:502:PRO:HG2	1.86	0.57
4:L:177:SER:O	4:L:181:ILE:HG12	2.05	0.57
6:N:45:MET:HA	6:N:54:LYS:O	2.05	0.57
6:N:56:THR:O	6:N:62:LEU:HD21	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:58:ASP:O	6:N:62:LEU:HG	2.04	0.57
3:c:1223:VAL:HG12	3:c:1224:LEU:N	2.20	0.57
1:i:1266:ASP:N	1:i:1267:PRO:CD	2.68	0.57
3:k:1402:VAL:HG13	3:k:1502:PRO:HG2	1.86	0.57
3:k:1524:ASP:HB2	8:p:1051:ARG:CB	2.35	0.57
4:l:1215:LEU:HB3	4:l:1217:GLN:HG2	1.86	0.57
6:n:1047:VAL:HG12	6:n:1048:ASP:H	1.70	0.57
6:n:1056:THR:HG22	6:n:1390:GLN:HB2	1.86	0.57
6:n:1424:ARG:HA	6:n:1424:ARG:NE	2.12	0.57
7:o:1516:LEU:CD2	7:o:1516:LEU:O	2.46	0.57
1:A:33:THR:OG1	1:A:83:LEU:HD11	2.05	0.56
2:B:245:ILE:O	2:B:246:PHE:HD2	1.87	0.56
3:C:353:GLY:H	3:C:370:ASN:HB3	1.70	0.56
6:F:447:PHE:CE2	6:F:451:LEU:HD11	2.39	0.56
6:F:452:LEU:O	6:F:455:PRO:CD	2.51	0.56
2:J:159:THR:HG21	2:J:488:VAL:H	1.69	0.56
8:P:300:VAL:HG13	8:P:321:LEU:HB3	1.87	0.56
2:b:1213:ILE:HG23	2:b:1354:LEU:CD2	2.35	0.56
3:c:1250:LEU:CG	3:c:1301:VAL:HG23	2.13	0.56
6:f:1029:LEU:O	6:f:1033:LEU:HD23	2.05	0.56
6:f:1032:VAL:HB	6:f:1033:LEU:HD22	1.86	0.56
6:f:1485:GLU:O	6:f:1488:TYR:CB	2.52	0.56
7:g:1282:LEU:O	7:g:1285:VAL:HG12	2.05	0.56
1:i:1329:ILE:HD13	1:i:1374:ILE:HD12	1.87	0.56
1:i:1345:GLU:CD	1:i:1346:GLY:HA2	2.30	0.56
2:j:1043:ASP:O	6:n:1530:CYS:HA	2.04	0.56
2:j:1116:HIS:HE1	2:j:1118:GLN:CB	2.18	0.56
2:j:1373:THR:HG22	2:j:1376:THR:N	2.20	0.56
6:n:1057:LYS:HG2	6:n:1057:LYS:O	2.03	0.56
1:A:548:ASP:OD2	1:A:548:ASP:N	2.37	0.56
2:B:230:LYS:H	2:B:281:ILE:CG2	2.18	0.56
4:D:36:ARG:HE	4:D:98:ILE:CG2	2.18	0.56
5:E:32:VAL:HG22	5:E:33:LYS:N	2.14	0.56
6:F:29:LEU:O	6:F:33:LEU:HD23	2.05	0.56
7:G:43:THR:CG2	7:G:64:ASN:CB	2.83	0.56
1:I:252:GLN:HG3	1:I:253:LYS:N	2.20	0.56
2:J:213:ILE:HG23	2:J:354:LEU:CD2	2.35	0.56
2:J:371:GLY:O	2:J:372:ALA:C	2.49	0.56
5:M:74:LEU:CG	5:M:93:GLN:HB3	2.35	0.56
5:M:352:GLU:HA	6:N:222:PRO:CG	2.35	0.56
6:N:193:MET:HE3	6:N:330:LEU:CD1	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:428:SER:O	6:N:431:MET:HG2	2.06	0.56
1:a:1266:ASP:N	1:a:1267:PRO:CD	2.68	0.56
3:c:1118:PRO:O	3:c:1122:ILE:HG13	2.05	0.56
3:c:1269:TRP:HZ3	6:f:1247:VAL:HB	1.70	0.56
4:d:1209:MET:HA	4:d:1377:VAL:HG12	1.86	0.56
4:d:1485:ARG:HD2	4:d:1485:ARG:N	2.20	0.56
5:e:1166:ASP:N	5:e:1167:ASP:CB	2.66	0.56
8:h:1068:ALA:O	8:h:1072:LEU:HG	2.06	0.56
2:j:1016:GLU:HG3	2:j:1017:ASN:H	1.71	0.56
2:j:1159:THR:HG21	2:j:1488:VAL:H	1.69	0.56
2:j:1245:ILE:O	2:j:1246:PHE:HD2	1.87	0.56
3:k:1353:GLY:H	3:k:1370:ASN:HB3	1.70	0.56
3:k:1482:THR:HA	3:k:1493:ASP:HA	1.87	0.56
4:l:1219:ALA:HB1	4:l:1221:LYS:NZ	2.20	0.56
8:p:1300:VAL:HG13	8:p:1321:LEU:HB3	1.87	0.56
1:A:55:ASP:HA	7:G:527:LYS:HB3	1.86	0.56
3:C:80:GLU:O	3:C:84:THR:HG23	2.05	0.56
5:E:428:CYS:HA	5:E:431:ARG:HG3	1.88	0.56
6:F:56:THR:O	6:F:62:LEU:HD21	2.05	0.56
6:F:428:SER:O	6:F:431:MET:HG2	2.05	0.56
8:H:284:ILE:O	8:H:288:MET:HG2	2.06	0.56
1:I:264:ILE:O	1:I:265:ASP:HB3	2.05	0.56
2:J:239:ASP:OD1	2:J:290:ILE:HB	2.06	0.56
2:J:245:ILE:O	2:J:246:PHE:HD2	1.87	0.56
3:K:118:PRO:O	3:K:122:ILE:HG13	2.05	0.56
3:K:302:SER:O	3:K:303:ASP:CB	2.40	0.56
3:K:321:LYS:HB3	3:K:324:ASP:HB2	1.87	0.56
3:K:514:ILE:HA	3:K:517:ALA:HB3	1.86	0.56
4:L:7:SER:HA	7:O:35:ALA:HB1	1.86	0.56
4:L:104:LEU:HD11	4:L:518:ILE:HD12	1.86	0.56
6:N:452:LEU:O	6:N:455:PRO:CD	2.51	0.56
7:O:51:ILE:HG22	7:O:53:ILE:HG23	1.87	0.56
7:O:109:MET:SD	7:O:514:THR:HB	2.45	0.56
8:P:427:GLU:HG2	8:P:459:VAL:HG21	1.85	0.56
1:a:1345:GLU:CD	1:a:1346:GLY:HA2	2.30	0.56
2:b:1402:LEU:HD21	2:b:1483:ARG:CG	2.36	0.56
3:c:1080:GLU:O	3:c:1084:THR:HG23	2.05	0.56
4:d:1291:SER:HA	4:d:1315:ASP:HA	1.86	0.56
4:d:1411:ILE:HG13	4:d:1501:VAL:HG22	1.87	0.56
6:f:1006:LEU:CD1	6:f:1007:ASN:H	2.18	0.56
6:f:1056:THR:O	6:f:1062:LEU:HD21	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1455:GLU:CG	7:g:1461:ALA:CB	2.81	0.56
1:i:1033:THR:OG1	1:i:1083:LEU:HD11	2.04	0.56
2:j:1037:LEU:HB2	2:j:1444:LEU:HD13	1.87	0.56
2:j:1045:LEU:CD2	2:j:1056:VAL:HG22	2.36	0.56
2:j:1141:ASP:CG	2:j:1142:ASN:H	2.13	0.56
2:j:1402:LEU:HD11	2:j:1483:ARG:HG3	1.88	0.56
5:m:1088:ALA:CB	5:m:1109:LYS:NZ	2.68	0.56
5:m:1255:PRO:HG3	5:m:1336:LEU:HA	1.87	0.56
6:n:1032:VAL:HB	6:n:1033:LEU:HD22	1.86	0.56
6:n:1452:LEU:O	6:n:1455:PRO:CD	2.51	0.56
6:n:1540:THR:O	6:n:1541:LEU:CD2	2.54	0.56
7:o:1109:MET:SD	7:o:1514:THR:HB	2.45	0.56
8:p:1025:ASP:HA	8:p:1028:ILE:HG13	1.87	0.56
8:p:1486:GLU:H	8:p:1487:PRO:HA	1.69	0.56
1:A:266:ASP:N	1:A:267:PRO:CD	2.68	0.56
1:A:345:GLU:CD	1:A:346:GLY:HA2	2.30	0.56
2:B:213:ILE:HG23	2:B:354:LEU:CD2	2.35	0.56
3:C:149:ALA:O	3:C:153:LYS:HG2	2.05	0.56
3:C:279:GLN:O	3:C:283:MET:HG2	2.05	0.56
7:G:494:LYS:O	7:G:495:PHE:CB	2.52	0.56
8:H:52:ASN:OD1	8:H:66:ASN:HB2	2.06	0.56
3:K:226:ASN:OD1	3:K:365:PHE:HA	2.06	0.56
6:N:6:LEU:CD1	6:N:7:ASN:H	2.18	0.56
8:P:204:VAL:CG2	8:P:409:LYS:CB	2.82	0.56
8:P:486:GLU:H	8:P:487:PRO:HA	1.69	0.56
2:b:1164:LYS:O	2:b:1165:ILE:C	2.48	0.56
2:b:1357:SER:CB	2:b:1360:LYS:CB	2.69	0.56
4:d:1016:LYS:O	4:d:1020:VAL:HG23	2.04	0.56
4:d:1171:ALA:HB3	4:d:1172:PRO:HD3	1.86	0.56
1:i:1183:ALA:HB1	1:i:1383:SER:HB2	1.87	0.56
2:j:1319:LEU:HD22	2:j:1320:VAL:HG13	1.88	0.56
6:n:1167:THR:CA	6:n:1168:GLU:HB3	2.34	0.56
6:n:1415:ALA:O	6:n:1491:VAL:HG23	2.06	0.56
2:B:116:HIS:HE1	2:B:118:GLN:CB	2.18	0.56
2:B:141:ASP:CG	2:B:142:ASN:H	2.13	0.56
3:C:355:PHE:HB2	3:C:368:LEU:HD13	1.87	0.56
4:D:110:LEU:HD13	4:D:439:ILE:HG23	1.87	0.56
4:D:485:ARG:HD2	4:D:485:ARG:N	2.20	0.56
5:E:255:PRO:HG3	5:E:336:LEU:HA	1.87	0.56
6:F:485:GLU:O	6:F:486:THR:C	2.48	0.56
6:F:485:GLU:O	6:F:488:TYR:CB	2.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:71:LYS:HD2	7:G:72:LEU:HD12	1.88	0.56
8:H:300:VAL:HG13	8:H:321:LEU:HB3	1.87	0.56
1:I:159:ILE:O	1:I:162:THR:HG22	2.06	0.56
1:I:463:ALA:HB1	1:I:470:SER:HB2	1.86	0.56
2:J:237:THR:CB	2:J:288:GLN:O	2.54	0.56
3:K:80:GLU:O	3:K:84:THR:HG23	2.05	0.56
4:L:209:MET:HA	4:L:377:VAL:HG12	1.86	0.56
8:P:52:ASN:OD1	8:P:66:ASN:HB2	2.06	0.56
3:c:1402:VAL:HG13	3:c:1502:PRO:HG2	1.86	0.56
4:d:1036:ARG:HE	4:d:1098:ILE:CG2	2.18	0.56
4:d:1219:ALA:HB1	4:d:1221:LYS:NZ	2.20	0.56
6:f:1415:ALA:O	6:f:1491:VAL:HG23	2.06	0.56
9:f:1601:ADP:O2'	9:f:1601:ADP:H8	1.87	0.56
7:g:1294:LEU:HD23	7:g:1315:ALA:HB3	1.87	0.56
1:i:1264:ILE:O	1:i:1265:ASP:HB3	2.05	0.56
1:i:1433:LEU:O	1:i:1437:ALA:HB3	2.05	0.56
2:j:1004:GLN:C	2:j:1005:ILE:CG2	2.73	0.56
2:j:1230:LYS:H	2:j:1281:ILE:CG2	2.18	0.56
3:k:1223:VAL:HG12	3:k:1224:LEU:N	2.20	0.56
3:k:1226:ASN:OD1	3:k:1365:PHE:HA	2.06	0.56
3:k:1322:LYS:HG3	3:k:1323:SER:N	2.21	0.56
1:A:422:GLY:HA2	9:A:601:ADP:N3	2.20	0.56
2:B:45:LEU:CD2	2:B:56:VAL:HG22	2.35	0.56
2:B:237:THR:CB	2:B:288:GLN:O	2.54	0.56
2:B:242:LYS:HD3	3:C:269:TRP:CZ2	2.39	0.56
2:B:319:LEU:HD22	2:B:320:VAL:HG13	1.88	0.56
2:B:450:PHE:CB	2:B:455:LEU:HD22	2.36	0.56
3:C:12:GLN:NE2	3:C:529:GLY:HA2	2.21	0.56
3:C:335:THR:O	3:C:337:VAL:HG23	2.06	0.56
4:D:8:ASN:C	4:D:10:THR:H	2.14	0.56
4:D:372:ARG:N	4:D:373:PRO:HD3	2.21	0.56
5:E:197:HIS:O	5:E:198:ASP:C	2.49	0.56
8:H:68:ALA:O	8:H:72:LEU:HG	2.05	0.56
1:I:345:GLU:CD	1:I:346:GLY:HA2	2.30	0.56
2:J:375:GLN:HE22	6:N:75:LEU:HB2	1.70	0.56
3:K:266:GLU:CD	3:K:266:GLU:N	2.64	0.56
3:K:335:THR:O	3:K:337:VAL:HG23	2.06	0.56
5:M:84:THR:HG22	5:M:86:ASP:N	2.18	0.56
7:O:121:SER:HB3	7:O:123:HIS:CE1	2.41	0.56
7:O:282:LEU:O	7:O:285:VAL:HG12	2.05	0.56
8:P:123:SER:OG	8:P:126:GLU:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1016:GLU:HG3	2:b:1017:ASN:H	1.71	0.56
3:c:1523:VAL:HA	8:h:1052:ASN:O	2.05	0.56
5:e:1255:PRO:HG3	5:e:1336:LEU:HA	1.87	0.56
8:h:1300:VAL:HG13	8:h:1321:LEU:HB3	1.87	0.56
1:i:1076:GLN:O	1:i:1077:HIS:HB3	2.06	0.56
1:i:1187:VAL:HB	1:i:1382:SER:N	2.21	0.56
1:i:1541:ILE:HD11	5:m:1083:ILE:HD13	1.88	0.56
3:k:1080:GLU:O	3:k:1084:THR:HG23	2.05	0.56
4:l:1254:VAL:HG22	8:p:1264:THR:O	2.05	0.56
6:n:1006:LEU:CD1	6:n:1007:ASN:H	2.18	0.56
6:n:1167:THR:HG21	6:n:1169:VAL:HG23	1.86	0.56
7:o:1294:LEU:HD23	7:o:1315:ALA:HB3	1.87	0.56
1:A:76:GLN:O	1:A:77:HIS:HB3	2.06	0.56
2:B:164:LYS:O	2:B:165:ILE:C	2.48	0.56
4:D:177:SER:O	4:D:181:ILE:HG12	2.05	0.56
4:D:219:ALA:HB1	4:D:221:LYS:NZ	2.20	0.56
6:F:154:ALA:HB2	6:F:402:VAL:HG22	1.87	0.56
6:F:415:ALA:O	6:F:491:VAL:HG23	2.06	0.56
6:F:424:ARG:HG2	6:F:483:SER:CA	2.34	0.56
7:G:323:MET:HA	7:G:326:VAL:HG22	1.88	0.56
1:I:209:HIS:HE1	7:O:89:ALA:HB2	1.71	0.56
2:J:16:GLU:HG3	2:J:17:ASN:H	1.70	0.56
3:K:9:ASN:HD22	3:K:10:ALA:H	1.53	0.56
3:K:149:ALA:O	3:K:153:LYS:HG2	2.05	0.56
5:M:197:HIS:O	5:M:198:ASP:C	2.49	0.56
6:N:29:LEU:O	6:N:33:LEU:HD23	2.05	0.56
6:N:541:LEU:HB2	6:N:542:LYS:HA	0.59	0.56
7:O:43:THR:CG2	7:O:64:ASN:CB	2.83	0.56
8:P:284:ILE:O	8:P:288:MET:HG2	2.05	0.56
2:b:1045:LEU:CD2	2:b:1056:VAL:HG22	2.35	0.56
2:b:1319:LEU:HD22	2:b:1320:VAL:HG13	1.88	0.56
2:b:1463:ILE:O	2:b:1467:ILE:CB	2.52	0.56
3:c:1266:GLU:CD	3:c:1266:GLU:N	2.64	0.56
3:c:1353:GLY:H	3:c:1370:ASN:HB3	1.70	0.56
4:d:1104:LEU:HD11	4:d:1518:ILE:HD12	1.86	0.56
5:e:1241:ASN:O	5:e:1241:ASN:ND2	2.34	0.56
6:f:1056:THR:HG22	6:f:1390:GLN:HB2	1.86	0.56
6:f:1428:SER:O	6:f:1431:MET:HG2	2.05	0.56
6:f:1485:GLU:O	6:f:1486:THR:C	2.49	0.56
8:h:1025:ASP:HA	8:h:1028:ILE:HG13	1.87	0.56
2:j:1402:LEU:HD21	2:j:1483:ARG:CG	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1009:ASN:HD22	3:k:1010:ALA:H	1.53	0.56
6:n:1485:GLU:O	6:n:1486:THR:C	2.48	0.56
1:A:183:ALA:HB1	1:A:383:SER:HB2	1.87	0.56
2:B:32:LEU:HD12	6:F:532:GLU:OE2	2.05	0.56
2:B:239:ASP:OD1	2:B:290:ILE:HB	2.06	0.56
3:C:118:PRO:O	3:C:122:ILE:HG13	2.05	0.56
7:G:23:LYS:HA	7:G:26:ILE:CG2	2.36	0.56
2:J:37:LEU:HB2	2:J:444:LEU:HD13	1.87	0.56
2:J:47:GLN:OE1	2:J:54:CYS:HB3	2.05	0.56
3:K:264:GLU:O	3:K:265:LYS:CB	2.54	0.56
4:L:120:ILE:HA	4:L:123:SER:HB3	1.87	0.56
4:L:219:ALA:HB1	4:L:221:LYS:NZ	2.20	0.56
4:L:242:SER:O	4:L:244:PRO:HD3	2.06	0.56
5:M:428:CYS:HA	5:M:431:ARG:HG3	1.88	0.56
1:a:1159:ILE:O	1:a:1162:THR:HG22	2.06	0.56
1:a:1187:VAL:HB	1:a:1382:SER:N	2.20	0.56
2:b:1450:PHE:CB	2:b:1455:LEU:HD22	2.36	0.56
3:c:1149:ALA:O	3:c:1153:LYS:HG2	2.05	0.56
3:c:1264:GLU:O	3:c:1265:LYS:CB	2.54	0.56
4:d:1242:SER:O	4:d:1244:PRO:HD3	2.06	0.56
5:e:1045:GLU:C	5:e:1047:LYS:H	2.14	0.56
5:e:1088:ALA:CB	5:e:1119:THR:HB	2.29	0.56
7:g:1121:SER:HB3	7:g:1123:HIS:CE1	2.41	0.56
1:i:1225:ASN:C	1:i:1225:ASN:HD22	2.13	0.56
2:j:1196:ILE:O	2:j:1367:ILE:HA	2.06	0.56
3:k:1266:GLU:CD	3:k:1266:GLU:N	2.64	0.56
4:l:1036:ARG:HE	4:l:1098:ILE:CG2	2.18	0.56
5:m:1045:GLU:C	5:m:1047:LYS:H	2.14	0.56
5:m:1241:ASN:O	5:m:1241:ASN:ND2	2.34	0.56
6:n:1045:MET:HA	6:n:1054:LYS:O	2.05	0.56
6:n:1538:ARG:HH11	6:n:1538:ARG:HG3	1.71	0.56
7:o:1023:LYS:HA	7:o:1026:ILE:CG2	2.36	0.56
7:o:1121:SER:HB3	7:o:1123:HIS:CE1	2.41	0.56
8:p:1284:ILE:O	8:p:1288:MET:HG2	2.05	0.56
1:A:187:VAL:HB	1:A:382:SER:N	2.21	0.56
2:B:326:VAL:CG1	3:C:304:LEU:HD22	2.36	0.56
3:C:223:VAL:HG12	3:C:224:LEU:N	2.20	0.56
4:D:265:LYS:HZ2	8:H:343:ARG:HD3	1.69	0.56
9:D:601:ADP:O3'	9:D:601:ADP:C8	2.59	0.56
6:F:424:ARG:NH1	6:F:479:ASP:CB	2.69	0.56
6:F:541:LEU:HB2	6:F:542:LYS:HA	0.60	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:121:SER:HB3	7:G:123:HIS:CE1	2.41	0.56
7:G:420:VAL:HG23	7:G:446:LEU:HD13	1.88	0.56
2:J:402:LEU:HD21	2:J:483:ARG:CG	2.36	0.56
2:J:450:PHE:CB	2:J:455:LEU:HD22	2.36	0.56
6:N:47:VAL:HG12	6:N:48:ASP:H	1.71	0.56
6:N:92:THR:HG21	10:N:602:BEF:F3	1.95	0.56
7:O:41:LYS:N	7:O:42:PRO:CD	2.69	0.56
8:P:25:ASP:HA	8:P:28:ILE:HG13	1.87	0.56
8:P:323:VAL:HG23	8:P:323:VAL:O	2.06	0.56
1:a:1541:ILE:HD13	5:e:1073:ILE:HG13	1.87	0.56
2:b:1037:LEU:HB2	2:b:1444:LEU:HD13	1.87	0.56
4:d:1110:LEU:HD13	4:d:1439:ILE:HG23	1.87	0.56
6:f:1209:PHE:CZ	6:f:1211:LYS:HD2	2.41	0.56
6:f:1424:ARG:NH1	6:f:1479:ASP:CB	2.69	0.56
7:g:1071:LYS:HD2	7:g:1072:LEU:HD12	1.88	0.56
7:g:1420:VAL:HG23	7:g:1446:LEU:HD13	1.88	0.56
7:g:1492:PHE:HA	7:g:1497:TRP:NE1	2.21	0.56
1:i:1233:MET:HE2	1:i:1315:ILE:O	2.06	0.56
2:j:1450:PHE:CB	2:j:1455:LEU:HD22	2.36	0.56
8:p:1029:ILE:CG2	8:p:1030:LYS:N	2.69	0.56
1:A:159:ILE:O	1:A:162:THR:HG22	2.06	0.56
2:B:37:LEU:HB2	2:B:444:LEU:HD13	1.87	0.56
2:B:47:GLN:OE1	2:B:54:CYS:HB3	2.05	0.56
2:B:63:ILE:HG23	2:B:64:LEU:HG	1.88	0.56
2:B:371:GLY:O	2:B:372:ALA:C	2.49	0.56
4:D:242:SER:O	4:D:244:PRO:HD3	2.06	0.56
8:H:25:ASP:HA	8:H:28:ILE:HG13	1.87	0.56
8:H:29:ILE:CG2	8:H:30:LYS:N	2.69	0.56
1:I:76:GLN:O	1:I:77:HIS:HB3	2.06	0.56
1:I:266:ASP:N	1:I:267:PRO:CD	2.68	0.56
2:J:63:ILE:HG23	2:J:64:LEU:HG	1.88	0.56
2:J:230:LYS:H	2:J:281:ILE:CG2	2.18	0.56
4:L:44:MET:HE3	8:P:531:ALA:HB2	1.88	0.56
4:L:527:SER:HB3	4:L:528:ARG:HH21	1.71	0.56
5:M:506:LYS:C	5:M:507:ILE:HD12	2.31	0.56
6:N:540:THR:O	6:N:541:LEU:CD2	2.54	0.56
7:O:323:MET:HA	7:O:326:VAL:HG22	1.88	0.56
1:a:1076:GLN:O	1:a:1077:HIS:HB3	2.06	0.56
1:a:1182:ASP:O	1:a:1186:ALA:HB3	2.05	0.56
1:a:1183:ALA:HB1	1:a:1383:SER:HB2	1.87	0.56
1:a:1252:GLN:HG3	1:a:1253:LYS:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1063:ILE:HG23	2:b:1064:LEU:HG	1.88	0.56
3:c:1012:GLN:NE2	3:c:1529:GLY:HA2	2.21	0.56
6:f:1541:LEU:HB2	6:f:1542:LYS:CB	2.32	0.56
7:g:1023:LYS:HA	7:g:1026:ILE:CG2	2.36	0.56
7:g:1041:LYS:N	7:g:1042:PRO:CD	2.69	0.56
7:g:1377:LEU:H	7:g:1377:LEU:CD1	2.19	0.56
8:h:1323:VAL:HG23	8:h:1323:VAL:O	2.06	0.56
2:j:1326:VAL:CG1	3:k:1304:LEU:HD13	2.35	0.56
2:j:1460:ARG:O	2:j:1463:ILE:HG22	2.06	0.56
2:j:1511:VAL:HB	2:j:1514:ILE:HD11	1.88	0.56
4:l:1394:LEU:HA	4:l:1397:ALA:HB3	1.89	0.56
5:m:1166:ASP:N	5:m:1167:ASP:CB	2.66	0.56
1:A:233:MET:HE2	1:A:315:ILE:O	2.06	0.55
1:A:252:GLN:HG3	1:A:253:LYS:H	1.71	0.55
1:A:329:ILE:HD13	1:A:374:ILE:HD12	1.87	0.55
2:B:16:GLU:HG3	2:B:17:ASN:H	1.71	0.55
2:B:402:LEU:HD11	2:B:483:ARG:HG3	1.88	0.55
2:B:475:ASN:HD22	2:B:475:ASN:N	1.92	0.55
5:E:35:GLN:OE1	5:E:36:GLY:HA3	2.06	0.55
5:E:74:LEU:CG	5:E:93:GLN:HB3	2.35	0.55
6:F:195:GLU:CG	6:F:197:MET:HE1	2.36	0.55
1:I:187:VAL:HB	1:I:382:SER:N	2.21	0.55
1:I:225:ASN:C	1:I:225:ASN:HD22	2.13	0.55
1:I:517:VAL:O	1:I:518:LEU:CD2	2.54	0.55
2:J:5:ILE:O	3:K:71:ALA:N	2.39	0.55
4:L:372:ARG:N	4:L:373:PRO:HD3	2.21	0.55
4:L:394:LEU:HA	4:L:397:ALA:HB3	1.88	0.55
5:M:45:GLU:C	5:M:47:LYS:H	2.14	0.55
5:M:181:LEU:HA	5:M:205:VAL:HG21	1.89	0.55
1:a:1517:VAL:O	1:a:1518:LEU:CD2	2.54	0.55
2:b:1141:ASP:CG	2:b:1142:ASN:H	2.13	0.55
3:c:1321:LYS:HB3	3:c:1324:ASP:HB2	1.87	0.55
4:d:1008:ASN:C	4:d:1010:THR:H	2.14	0.55
4:d:1394:LEU:HA	4:d:1397:ALA:HB3	1.89	0.55
5:e:1032:VAL:HG22	5:e:1033:LYS:N	2.13	0.55
5:e:1506:LYS:C	5:e:1507:ILE:HD12	2.31	0.55
6:f:1214:VAL:O	6:f:1215:LEU:HD23	2.07	0.55
6:f:1538:ARG:HH11	6:f:1538:ARG:HG3	1.71	0.55
8:h:1284:ILE:O	8:h:1288:MET:HG2	2.05	0.55
7:o:1294:LEU:CD2	7:o:1315:ALA:HB3	2.36	0.55
1:A:500:TYR:HA	1:A:511:ASP:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:VAL:O	1:A:518:LEU:CD2	2.54	0.55
2:B:115:ILE:HG12	5:M:492:ILE:HD11	1.88	0.55
3:C:226:ASN:OD1	3:C:365:PHE:HA	2.06	0.55
3:C:321:LYS:HB3	3:C:324:ASP:HB2	1.87	0.55
6:F:45:MET:HA	6:F:54:LYS:O	2.05	0.55
6:F:47:VAL:HG12	6:F:48:ASP:H	1.70	0.55
1:I:182:ASP:O	1:I:186:ALA:HB3	2.05	0.55
3:K:482:THR:HA	3:K:493:ASP:HA	1.87	0.55
4:L:8:ASN:C	4:L:10:THR:H	2.14	0.55
6:N:68:ILE:HD13	6:N:74:VAL:HG22	1.89	0.55
6:N:195:GLU:CG	6:N:197:MET:HE1	2.36	0.55
6:N:209:PHE:CZ	6:N:211:LYS:HD2	2.41	0.55
1:a:1209:HIS:HE1	7:g:1089:ALA:HB2	1.70	0.55
2:b:1047:GLN:OE1	2:b:1054:CYS:HB3	2.05	0.55
2:b:1402:LEU:HD11	2:b:1483:ARG:HG3	1.88	0.55
3:c:1104:LEU:HD21	3:c:1517:ALA:HA	1.89	0.55
4:d:1207:THR:HB	4:d:1378:VAL:O	2.07	0.55
4:d:1527:SER:HB3	4:d:1528:ARG:HH21	1.71	0.55
6:f:1047:VAL:HG12	6:f:1048:ASP:H	1.70	0.55
1:i:1055:ASP:HA	7:o:1527:LYS:HB3	1.89	0.55
1:i:1159:ILE:O	1:i:1162:THR:HG22	2.06	0.55
2:j:1324:GLU:H	3:k:1311:LYS:NZ	2.03	0.55
3:k:1335:THR:O	3:k:1337:VAL:HG23	2.06	0.55
6:n:1193:MET:HE3	6:n:1330:LEU:CD1	2.29	0.55
8:p:1323:VAL:HG23	8:p:1323:VAL:O	2.07	0.55
1:A:350:PHE:CE2	1:A:354:TYR:CB	2.85	0.55
3:C:322:LYS:HG3	3:C:323:SER:N	2.21	0.55
4:D:209:MET:HA	4:D:377:VAL:HG12	1.86	0.55
4:D:411:ILE:HG13	4:D:501:VAL:HG22	1.87	0.55
5:E:181:LEU:HA	5:E:205:VAL:HG21	1.88	0.55
5:E:351:LEU:HD13	5:E:351:LEU:N	2.22	0.55
6:F:68:ILE:HD13	6:F:74:VAL:HG22	1.89	0.55
6:F:151:LEU:CG	6:F:175:THR:HG23	2.31	0.55
1:I:273:ILE:HG21	5:M:295:TYR:CE2	2.41	0.55
2:J:511:VAL:HB	2:J:514:ILE:HD11	1.88	0.55
3:K:506:LYS:O	3:K:510:VAL:HG23	2.06	0.55
5:M:273:THR:CG2	5:M:364:PRO:CA	2.72	0.55
5:M:351:LEU:HD13	5:M:351:LEU:N	2.22	0.55
8:P:68:ALA:O	8:P:72:LEU:HG	2.06	0.55
2:b:1230:LYS:H	2:b:1281:ILE:CG2	2.18	0.55
2:b:1237:THR:CB	2:b:1288:GLN:O	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1242:LYS:HA	3:c:1269:TRP:HE1	1.71	0.55
4:d:1372:ARG:N	4:d:1373:PRO:HD3	2.21	0.55
5:e:1181:LEU:HA	5:e:1205:VAL:HG21	1.88	0.55
5:e:1351:LEU:HD13	5:e:1351:LEU:N	2.22	0.55
5:e:1352:GLU:HA	6:f:1222:PRO:CG	2.36	0.55
6:f:1035:THR:HG22	6:f:1042:THR:H	1.72	0.55
8:h:1029:ILE:CG2	8:h:1030:LYS:N	2.69	0.55
1:i:1517:VAL:O	1:i:1518:LEU:CD2	2.54	0.55
3:k:1523:VAL:HA	8:p:1052:ASN:O	2.07	0.55
4:l:1485:ARG:HD2	4:l:1485:ARG:N	2.20	0.55
4:l:1521:ILE:HG12	7:o:1062:ILE:HD11	1.88	0.55
4:l:1527:SER:HB3	4:l:1528:ARG:HH21	1.71	0.55
8:p:1052:ASN:OD1	8:p:1066:ASN:HB2	2.06	0.55
8:p:1068:ALA:O	8:p:1072:LEU:HG	2.05	0.55
2:B:402:LEU:HD21	2:B:483:ARG:CG	2.36	0.55
6:F:540:THR:O	6:F:541:LEU:CD2	2.54	0.55
7:G:58:GLN:NE2	7:G:58:GLN:HA	2.22	0.55
1:I:484:SER:OG	1:I:498:ARG:CB	2.55	0.55
2:J:319:LEU:HD22	2:J:320:VAL:HG13	1.88	0.55
4:L:521:ILE:HD11	7:O:62:ILE:HD12	1.82	0.55
7:O:23:LYS:HA	7:O:26:ILE:CG2	2.36	0.55
7:O:492:PHE:HA	7:O:497:TRP:NE1	2.21	0.55
8:P:29:ILE:CG2	8:P:30:LYS:N	2.69	0.55
1:a:1233:MET:HE2	1:a:1315:ILE:O	2.06	0.55
1:a:1252:GLN:HG3	1:a:1253:LYS:H	1.71	0.55
1:a:1500:TYR:HA	1:a:1511:ASP:HA	1.89	0.55
2:b:1371:GLY:O	2:b:1372:ALA:C	2.49	0.55
4:d:1298:ASN:CB	4:d:1299:ASP:HA	2.37	0.55
5:e:1428:CYS:HA	5:e:1431:ARG:HG3	1.88	0.55
6:f:1452:LEU:O	6:f:1455:PRO:CD	2.51	0.55
7:g:1051:ILE:HG22	7:g:1053:ILE:HG23	1.87	0.55
2:j:1173:PHE:HA	2:j:1176:LEU:HD12	1.89	0.55
2:j:1210:GLU:HB3	2:j:1357:SER:O	2.07	0.55
3:k:1118:PRO:O	3:k:1122:ILE:HG13	2.05	0.55
4:l:1008:ASN:C	4:l:1010:THR:H	2.14	0.55
5:m:1181:LEU:HA	5:m:1205:VAL:HG21	1.88	0.55
6:n:1151:LEU:CG	6:n:1175:THR:HG23	2.32	0.55
6:n:1195:GLU:CG	6:n:1197:MET:HE1	2.36	0.55
7:o:1051:ILE:HG22	7:o:1053:ILE:HG23	1.87	0.55
1:A:225:ASN:C	1:A:225:ASN:HD22	2.14	0.55
1:A:252:GLN:HB2	1:A:303:ASP:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:40:LYS:HZ2	6:F:117:ILE:HG13	1.71	0.55
3:C:104:LEU:HD21	3:C:517:ALA:HA	1.89	0.55
3:C:266:GLU:CD	3:C:266:GLU:N	2.64	0.55
7:G:109:MET:SD	7:G:514:THR:HB	2.45	0.55
7:G:294:LEU:CD2	7:G:315:ALA:HB3	2.37	0.55
2:J:402:LEU:HD11	2:J:483:ARG:HG3	1.88	0.55
2:J:460:ARG:O	2:J:463:ILE:HG22	2.07	0.55
4:L:524:ILE:O	4:L:524:ILE:HG22	2.06	0.55
6:N:35:THR:HG22	6:N:42:THR:H	1.72	0.55
6:N:160:THR:H	6:N:164:ALA:CB	2.20	0.55
6:N:415:ALA:O	6:N:491:VAL:HG23	2.06	0.55
6:N:424:ARG:NH1	6:N:479:ASP:CB	2.69	0.55
6:N:485:GLU:O	6:N:486:THR:C	2.48	0.55
3:c:1009:ASN:HD22	3:c:1010:ALA:H	1.53	0.55
3:c:1335:THR:O	3:c:1337:VAL:HG23	2.06	0.55
6:f:1068:ILE:HD13	6:f:1074:VAL:HG22	1.89	0.55
6:f:1171:THR:O	6:f:1175:THR:CB	2.55	0.55
8:h:1007:GLN:HB3	4:l:1071:LEU:O	2.07	0.55
1:i:1500:TYR:HA	1:i:1511:ASP:HA	1.89	0.55
3:k:1301:VAL:HG13	3:k:1301:VAL:O	2.07	0.55
4:l:1207:THR:HB	4:l:1378:VAL:O	2.07	0.55
6:n:1043:LEU:CD2	6:n:1057:LYS:CB	2.78	0.55
6:n:1195:GLU:CG	6:n:1197:MET:SD	2.94	0.55
8:p:1123:SER:OG	8:p:1126:GLU:HG3	2.06	0.55
1:A:484:SER:OG	1:A:498:ARG:CB	2.55	0.55
4:D:207:THR:HB	4:D:378:VAL:O	2.07	0.55
6:F:209:PHE:CZ	6:F:211:LYS:HD2	2.41	0.55
8:H:323:VAL:HG23	8:H:323:VAL:O	2.06	0.55
1:I:76:GLN:O	1:I:77:HIS:CB	2.55	0.55
1:I:252:GLN:HG3	1:I:253:LYS:H	1.71	0.55
2:J:45:LEU:CD2	2:J:56:VAL:HG22	2.36	0.55
3:K:170:LYS:C	3:K:170:LYS:HD3	2.32	0.55
4:L:298:ASN:CB	4:L:299:ASP:HA	2.37	0.55
4:L:485:ARG:HD2	4:L:485:ARG:N	2.20	0.55
5:M:470:ARG:O	5:M:474:GLN:HG3	2.07	0.55
7:O:115:PHE:O	7:O:119:GLY:HA3	2.07	0.55
8:P:328:GLU:HG3	8:P:331:ARG:HH12	1.72	0.55
2:b:1210:GLU:HB3	2:b:1357:SER:O	2.07	0.55
3:c:1226:ASN:OD1	3:c:1365:PHE:HA	2.06	0.55
3:c:1355:PHE:HB2	3:c:1368:LEU:HD13	1.87	0.55
3:c:1506:LYS:O	3:c:1510:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1033:LEU:HD22	6:f:1033:LEU:N	2.21	0.55
6:f:1540:THR:O	6:f:1541:LEU:CD2	2.54	0.55
7:g:1323:MET:HA	7:g:1326:VAL:HG22	1.88	0.55
8:h:1123:SER:OG	8:h:1126:GLU:HG3	2.06	0.55
2:j:1237:THR:CB	2:j:1288:GLN:O	2.54	0.55
6:n:1209:PHE:CZ	6:n:1211:LYS:HD2	2.41	0.55
6:n:1214:VAL:O	6:n:1215:LEU:HD23	2.06	0.55
6:n:1428:SER:O	6:n:1431:MET:HG2	2.05	0.55
7:o:1034:VAL:O	7:o:1038:GLU:HG2	2.06	0.55
8:p:1463:LEU:HD21	9:p:1601:ADP:O2'	2.06	0.55
1:A:92:ARG:HB3	5:E:388:THR:HA	1.89	0.55
3:C:482:THR:HA	3:C:493:ASP:HA	1.87	0.55
4:D:394:LEU:HA	4:D:397:ALA:HB3	1.89	0.55
6:F:92:THR:CG2	10:F:602:BEF:F3	2.44	0.55
6:F:160:THR:H	6:F:164:ALA:CB	2.20	0.55
6:F:214:VAL:O	6:F:215:LEU:HD23	2.06	0.55
7:G:34:VAL:O	7:G:38:GLU:HG2	2.06	0.55
7:G:41:LYS:N	7:G:42:PRO:CD	2.69	0.55
2:J:42:MET:HE3	6:N:529:LEU:O	2.07	0.55
3:K:104:LEU:HD21	3:K:517:ALA:HA	1.89	0.55
3:K:508:GLN:HG2	8:P:215:GLY:HA2	1.89	0.55
2:b:1460:ARG:O	2:b:1463:ILE:HG22	2.07	0.55
5:e:1470:ARG:O	5:e:1474:GLN:HG3	2.07	0.55
6:f:1439:LYS:HZ2	5:m:1034:ASP:CB	2.19	0.55
1:i:1063:THR:HG22	1:i:1065:ASP:N	2.22	0.55
3:k:1370:ASN:OD1	3:k:2054:GLY:HA2	2.07	0.55
6:n:1068:ILE:HD13	6:n:1074:VAL:HG22	1.89	0.55
6:n:1160:THR:H	6:n:1164:ALA:CB	2.20	0.55
6:n:1424:ARG:NH1	6:n:1479:ASP:CB	2.69	0.55
8:p:1328:GLU:HG3	8:p:1331:ARG:HH12	1.72	0.55
2:B:229:ALA:HB3	2:B:339:GLU:O	2.07	0.55
2:B:292:ASP:HA	2:B:295:GLU:CD	2.32	0.55
2:B:460:ARG:O	2:B:463:ILE:HG22	2.07	0.55
2:B:514:ILE:CD1	3:C:47:MET:HB3	2.35	0.55
3:C:264:GLU:O	3:C:265:LYS:CB	2.54	0.55
5:E:173:ASP:HB3	5:E:437:SER:HB3	1.87	0.55
2:J:4:GLN:N	2:J:5:ILE:HG12	2.19	0.55
2:J:173:PHE:HA	2:J:176:LEU:HD12	1.89	0.55
2:J:475:ASN:HD22	2:J:475:ASN:N	1.92	0.55
3:K:322:LYS:HG3	3:K:323:SER:N	2.21	0.55
4:L:38:SER:HB3	4:L:46:LYS:HZ2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:81:VAL:HG22	7:O:382:ALA:HB2	1.89	0.55
4:L:207:THR:HB	4:L:378:VAL:O	2.07	0.55
4:L:410:LEU:HD22	4:L:498:LEU:HB3	1.89	0.55
4:L:430:ARG:O	4:L:431:SER:C	2.50	0.55
6:N:195:GLU:CG	6:N:197:MET:SD	2.94	0.55
6:N:214:VAL:O	6:N:215:LEU:HD23	2.07	0.55
6:N:277:ILE:HG21	6:N:295:ILE:HG13	1.89	0.55
7:O:386:ILE:O	7:O:389:VAL:HB	2.07	0.55
8:P:24:ALA:CB	8:P:531:ALA:HB1	2.37	0.55
1:a:1225:ASN:C	1:a:1225:ASN:HD22	2.13	0.55
2:b:1031:ASP:OD1	2:b:1032:LEU:N	2.40	0.55
5:e:1074:LEU:CG	5:e:1093:GLN:HB3	2.35	0.55
5:e:1088:ALA:CB	5:e:1109:LYS:NZ	2.68	0.55
6:f:1075:LEU:HD21	6:f:1523:ILE:HG23	1.89	0.55
6:f:1171:THR:O	6:f:1175:THR:OG1	2.24	0.55
6:f:1195:GLU:CG	6:f:1197:MET:SD	2.94	0.55
6:f:1411:ILE:CG2	6:f:1412:ILE:H	2.16	0.55
8:h:1052:ASN:OD1	8:h:1066:ASN:HB2	2.06	0.55
1:i:1484:SER:OG	1:i:1498:ARG:CB	2.55	0.55
2:j:1040:LYS:HA	6:n:1116:ARG:HG3	1.89	0.55
2:j:1095:VAL:HG22	2:j:1497:VAL:HG22	1.89	0.55
2:j:1235:ASN:ND2	3:k:1304:LEU:HD21	2.21	0.55
2:j:1371:GLY:O	2:j:1372:ALA:C	2.49	0.55
2:j:1505:ALA:O	2:j:1509:LEU:HB2	2.07	0.55
6:n:1005:LEU:CA	6:n:1006:LEU:HB2	2.34	0.55
6:n:1409:LYS:H	6:n:1409:LYS:CD	2.14	0.55
7:o:1058:GLN:HA	7:o:1058:GLN:NE2	2.22	0.55
2:B:3:VAL:C	2:B:5:ILE:HG12	2.32	0.55
2:B:95:VAL:HG22	2:B:497:VAL:HG22	1.89	0.55
2:B:173:PHE:HA	2:B:176:LEU:HD12	1.89	0.55
3:C:275:ILE:CA	8:H:274:LEU:HD21	2.37	0.55
4:D:375:VAL:HG12	4:D:376:SER:N	2.22	0.55
6:F:277:ILE:HG21	6:F:295:ILE:HG13	1.89	0.55
6:F:353:LEU:N	6:F:369:GLU:HB3	2.22	0.55
6:F:372:ASP:N	6:F:373:PRO:HD3	2.22	0.55
1:I:233:MET:HE2	1:I:315:ILE:O	2.06	0.55
2:J:39:PRO:HA	2:J:163:SER:CA	2.37	0.55
3:K:523:VAL:HA	8:P:52:ASN:O	2.06	0.55
5:M:35:GLN:OE1	5:M:36:GLY:HA3	2.06	0.55
6:N:171:THR:O	6:N:175:THR:CB	2.55	0.55
6:N:538:ARG:HH11	6:N:538:ARG:HG3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:541:LEU:HB2	6:N:542:LYS:CB	2.32	0.55
7:O:71:LYS:HD2	7:O:72:LEU:HD12	1.88	0.55
1:a:1012:THR:CG2	5:e:1097:ASP:H	2.17	0.55
2:b:1192:HIS:CD2	2:b:1193:ILE:HG23	2.42	0.55
4:d:1214:VAL:HG13	4:d:1362:ARG:HG2	1.89	0.55
5:e:1355:ALA:CB	6:f:1222:PRO:HG2	2.35	0.55
6:f:1199:MET:O	6:f:1381:LYS:CE	2.55	0.55
7:g:1034:VAL:O	7:g:1038:GLU:HG2	2.06	0.55
7:g:1058:GLN:HA	7:g:1058:GLN:NE2	2.22	0.55
2:j:1039:PRO:HA	2:j:1163:SER:CA	2.37	0.55
2:j:1063:ILE:HG23	2:j:1064:LEU:HG	1.88	0.55
2:j:1239:ASP:OD1	2:j:1290:ILE:HB	2.06	0.55
3:k:1170:LYS:HD3	3:k:1170:LYS:C	2.32	0.55
3:k:1527:VAL:HG11	8:p:1075:LEU:HD21	1.89	0.55
4:l:1242:SER:O	4:l:1244:PRO:HD3	2.06	0.55
4:l:1372:ARG:N	4:l:1373:PRO:HD3	2.21	0.55
4:l:1386:ILE:C	4:l:1388:ASP:H	2.15	0.55
4:l:1430:ARG:O	4:l:1431:SER:C	2.50	0.55
8:p:1138:THR:HG21	8:p:1452:PHE:HE1	1.72	0.55
8:p:1428:ILE:HD13	8:p:1478:LEU:HD13	1.89	0.55
3:C:124:ALA:HB1	3:C:441:PRO:CB	2.37	0.55
5:E:88:ALA:CB	5:E:109:LYS:NZ	2.68	0.55
6:F:199:MET:O	6:F:381:LYS:CE	2.55	0.55
6:F:538:ARG:HH11	6:F:538:ARG:HG3	1.71	0.55
8:H:123:SER:OG	8:H:126:GLU:HG3	2.06	0.55
1:I:252:GLN:HB2	1:I:303:ASP:HB2	1.89	0.55
4:L:411:ILE:HG13	4:L:501:VAL:HG22	1.87	0.55
6:N:372:ASP:N	6:N:373:PRO:HD3	2.22	0.55
7:O:33:CYS:HG	7:O:83:LEU:HD11	1.71	0.55
7:O:455:GLU:HG3	7:O:461:ALA:HB2	1.88	0.55
1:a:1252:GLN:HB2	1:a:1303:ASP:HB2	1.89	0.55
2:b:1284:PHE:HB3	2:b:1305:SER:HB3	1.89	0.55
2:b:1295:GLU:OE2	6:f:1338:ASN:HB2	2.07	0.55
2:b:1367:ILE:HG23	2:b:1367:ILE:O	2.06	0.55
4:d:1028:ALA:HB1	4:d:1078:LEU:HD11	1.89	0.55
4:d:1044:MET:HG3	8:h:1531:ALA:HB3	1.88	0.55
4:d:1196:LEU:HD22	4:d:1377:VAL:CG2	2.37	0.55
4:d:1524:ILE:HG22	4:d:1524:ILE:O	2.06	0.55
6:f:1043:LEU:HD22	6:f:1057:LYS:HB2	1.84	0.55
6:f:1409:LYS:H	6:f:1409:LYS:CD	2.14	0.55
8:h:1328:GLU:HG3	8:h:1331:ARG:HH12	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1284:PHE:HB3	2:j:1305:SER:HB3	1.89	0.55
5:m:1470:ARG:O	5:m:1474:GLN:HG3	2.07	0.55
5:m:1506:LYS:C	5:m:1507:ILE:HD12	2.31	0.55
6:n:1033:LEU:HD22	6:n:1033:LEU:N	2.21	0.55
6:n:1481:GLN:O	6:n:1485:GLU:HG2	2.07	0.55
7:o:1323:MET:HA	7:o:1326:VAL:HG22	1.88	0.55
1:A:94:ILE:HD11	1:A:526:LYS:HB2	1.89	0.54
1:A:460:LYS:HD2	3:K:113:GLU:HB2	1.89	0.54
2:B:422:ILE:HG21	2:B:427:SER:CB	2.36	0.54
3:C:170:LYS:C	3:C:170:LYS:HD3	2.32	0.54
3:C:370:ASN:OD1	3:C:1054:GLY:HA2	2.07	0.54
4:D:196:LEU:HD22	4:D:377:VAL:CG2	2.37	0.54
4:D:214:VAL:HG13	4:D:362:ARG:HG2	1.89	0.54
4:D:524:ILE:HG22	4:D:524:ILE:O	2.07	0.54
5:E:45:GLU:C	5:E:47:LYS:H	2.14	0.54
7:G:191:ARG:HB3	7:G:193:ASP:O	2.07	0.54
7:G:440:ASN:O	7:G:444:LYS:HD3	2.08	0.54
2:J:127:ALA:CB	2:J:430:VAL:HG22	2.31	0.54
2:J:210:GLU:HB3	2:J:357:SER:O	2.07	0.54
3:K:432:LYS:HA	3:K:439:GLN:HE21	1.72	0.54
4:L:499:GLN:HE22	9:L:601:ADP:H1'	1.72	0.54
6:N:33:LEU:HD22	6:N:33:LEU:N	2.22	0.54
6:N:353:LEU:N	6:N:369:GLU:HB3	2.22	0.54
3:c:1170:LYS:HD3	3:c:1170:LYS:C	2.32	0.54
6:f:1277:ILE:HG21	6:f:1295:ILE:HG13	1.89	0.54
6:f:1541:LEU:HB2	6:f:1542:LYS:HA	0.59	0.54
7:g:1115:PHE:O	7:g:1119:GLY:HA3	2.07	0.54
7:g:1294:LEU:CD2	7:g:1315:ALA:HB3	2.37	0.54
8:h:1252:CYS:HB2	8:h:1343:ARG:H	1.72	0.54
3:k:1012:GLN:NE2	3:k:1529:GLY:HA2	2.21	0.54
3:k:1264:GLU:O	3:k:1265:LYS:CB	2.54	0.54
3:k:1432:LYS:HA	3:k:1439:GLN:HE21	1.72	0.54
4:l:1196:LEU:HD22	4:l:1377:VAL:CG2	2.37	0.54
6:n:1372:ASP:N	6:n:1373:PRO:HD3	2.22	0.54
8:p:1237:LYS:HB2	8:p:1314:ASN:CB	2.31	0.54
2:B:192:HIS:CD2	2:B:193:ILE:HG23	2.42	0.54
2:B:511:VAL:HB	2:B:514:ILE:HD11	1.88	0.54
4:D:418:GLU:HG2	4:D:450:ILE:HB	1.89	0.54
4:D:430:ARG:O	4:D:431:SER:C	2.50	0.54
5:E:506:LYS:C	5:E:507:ILE:HD12	2.31	0.54
6:F:171:THR:O	6:F:175:THR:CB	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:215:LEU:HB3	6:F:217:HIS:CD2	2.36	0.54
1:I:548:ASP:OD2	1:I:548:ASP:N	2.37	0.54
2:J:505:ALA:O	2:J:509:LEU:HB2	2.07	0.54
4:L:418:GLU:HG2	4:L:450:ILE:HB	1.89	0.54
6:N:75:LEU:HD21	6:N:523:ILE:HG23	1.89	0.54
6:N:199:MET:O	6:N:381:LYS:CE	2.55	0.54
6:N:424:ARG:HG2	6:N:483:SER:CA	2.34	0.54
7:O:294:LEU:CD2	7:O:315:ALA:HB3	2.36	0.54
2:b:1295:GLU:OE1	6:f:1339:SER:HB3	2.07	0.54
4:d:1423:ARG:HH12	4:d:1473:HIS:CD2	2.26	0.54
6:f:1458:LEU:HD12	6:f:1458:LEU:C	2.33	0.54
8:h:1482:HIS:C	8:h:1484:VAL:N	2.65	0.54
1:i:1044:LEU:HD21	1:i:1103:ILE:HD12	1.89	0.54
1:i:1252:GLN:HB2	1:i:1303:ASP:HB2	1.89	0.54
1:i:1532:LEU:HD22	1:i:1536:VAL:HG23	1.90	0.54
3:k:1416:GLY:HA2	9:k:2101:ADP:HI'	1.88	0.54
6:n:1029:LEU:O	6:n:1033:LEU:HD23	2.05	0.54
6:n:1199:MET:O	6:n:1381:LYS:CE	2.55	0.54
7:o:1115:PHE:O	7:o:1119:GLY:HA3	2.07	0.54
7:o:1117:GLU:CD	7:o:1117:GLU:H	2.15	0.54
7:o:1377:LEU:H	7:o:1377:LEU:CD1	2.19	0.54
1:A:90:GLN:NE2	1:A:527:SER:HB3	2.22	0.54
2:B:4:GLN:N	2:B:5:ILE:HG12	2.19	0.54
4:D:527:SER:HB3	4:D:528:ARG:HH21	1.71	0.54
5:E:84:THR:HG23	5:E:418:GLU:OE2	2.08	0.54
5:E:470:ARG:O	5:E:474:GLN:HG3	2.07	0.54
6:F:75:LEU:HD21	6:F:523:ILE:HG23	1.89	0.54
6:F:324:ASN:O	6:F:328:LEU:N	2.33	0.54
7:G:117:GLU:CD	7:G:117:GLU:H	2.15	0.54
8:H:138:THR:HG21	8:H:452:PHE:HE1	1.72	0.54
2:J:326:VAL:HG13	3:K:304:LEU:HD22	1.90	0.54
3:K:12:GLN:NE2	3:K:529:GLY:HA2	2.21	0.54
6:N:501:PRO:O	6:N:504:GLU:N	2.39	0.54
7:O:420:VAL:HG23	7:O:446:LEU:HD13	1.88	0.54
1:a:1063:THR:HG22	1:a:1065:ASP:N	2.22	0.54
1:a:1484:SER:OG	1:a:1498:ARG:CB	2.55	0.54
2:b:1115:ILE:HG12	5:m:1492:ILE:HD11	1.89	0.54
3:c:1334:ALA:HB2	3:c:1349:GLY:N	2.23	0.54
4:d:1410:LEU:HD22	4:d:1498:LEU:HB3	1.89	0.54
6:f:1324:ASN:O	6:f:1328:LEU:N	2.33	0.54
6:f:1481:GLN:O	6:f:1485:GLU:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1397:ILE:O	7:g:1400:VAL:HG22	2.07	0.54
8:h:1428:ILE:HD13	8:h:1478:LEU:HD13	1.90	0.54
2:j:1292:ASP:HA	2:j:1295:GLU:CD	2.32	0.54
3:k:1506:LYS:O	3:k:1510:VAL:HG23	2.06	0.54
5:m:1351:LEU:HD13	5:m:1351:LEU:N	2.22	0.54
6:n:1057:LYS:NZ	6:n:1057:LYS:O	2.40	0.54
6:n:1353:LEU:N	6:n:1369:GLU:HB3	2.22	0.54
1:A:412:THR:OG1	1:A:520:PRO:HG3	2.08	0.54
2:B:284:PHE:HB3	2:B:305:SER:HB3	1.89	0.54
2:B:289:LEU:HD13	2:B:294:PRO:HG3	1.90	0.54
2:B:326:VAL:CG2	3:C:304:LEU:HD22	2.37	0.54
3:C:262:GLU:H	8:H:266:LEU:HD11	1.73	0.54
4:D:196:LEU:HD22	4:D:377:VAL:HG22	1.89	0.54
6:F:171:THR:O	6:F:175:THR:OG1	2.24	0.54
2:J:31:ASP:OD1	2:J:32:LEU:N	2.40	0.54
2:J:95:VAL:HG22	2:J:497:VAL:HG22	1.89	0.54
2:J:196:ILE:O	2:J:367:ILE:HA	2.07	0.54
2:J:284:PHE:HB3	2:J:305:SER:HB3	1.89	0.54
4:L:28:ALA:HB1	4:L:78:LEU:HD11	1.89	0.54
4:L:46:LYS:HG3	8:P:532:THR:HG23	1.89	0.54
4:L:214:VAL:HG13	4:L:362:ARG:HG2	1.89	0.54
4:L:386:ILE:C	4:L:388:ASP:H	2.15	0.54
5:M:173:ASP:HB3	5:M:437:SER:HB3	1.87	0.54
6:N:155:ARG:CB	6:N:171:THR:HG23	2.38	0.54
7:O:117:GLU:CD	7:O:117:GLU:H	2.15	0.54
7:O:397:ILE:O	7:O:400:VAL:HG22	2.07	0.54
2:b:1173:PHE:HA	2:b:1176:LEU:HD12	1.89	0.54
3:c:1301:VAL:HG13	3:c:1301:VAL:O	2.07	0.54
3:c:1370:ASN:OD1	3:c:2054:GLY:HA2	2.07	0.54
3:c:1508:GLN:CG	8:h:1215:GLY:HA2	2.37	0.54
4:d:1418:GLU:HG2	4:d:1450:ILE:HB	1.89	0.54
5:e:1197:HIS:O	5:e:1198:ASP:C	2.49	0.54
6:f:1089:ASP:OD1	9:f:1601:ADP:O1B	2.25	0.54
6:f:1434:LEU:O	6:f:1438:GLY:HA2	2.08	0.54
7:g:1386:ILE:O	7:g:1389:VAL:HB	2.07	0.54
2:j:1003:VAL:C	2:j:1005:ILE:HG12	2.32	0.54
2:j:1192:HIS:CD2	2:j:1193:ILE:HG23	2.42	0.54
3:k:1124:ALA:HB1	3:k:1441:PRO:CB	2.37	0.54
5:m:1084:THR:HG22	5:m:1086:ASP:N	2.19	0.54
6:n:1488:TYR:O	6:n:1489:VAL:CB	2.56	0.54
7:o:1041:LYS:N	7:o:1042:PRO:CD	2.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1071:LYS:HD2	7:o:1072:LEU:HD12	1.88	0.54
7:o:1492:PHE:HA	7:o:1497:TRP:NE1	2.21	0.54
1:A:44:LEU:HD21	1:A:103:ILE:HD12	1.89	0.54
2:B:504:ALA:O	2:B:508:LEU:HB3	2.07	0.54
6:F:33:LEU:HD22	6:F:33:LEU:N	2.21	0.54
6:F:35:THR:HG22	6:F:42:THR:H	1.72	0.54
7:G:115:PHE:O	7:G:119:GLY:HA3	2.07	0.54
1:I:500:TYR:HA	1:I:511:ASP:HA	1.89	0.54
2:J:192:HIS:CD2	2:J:193:ILE:HG23	2.42	0.54
2:J:292:ASP:HA	2:J:295:GLU:CD	2.32	0.54
3:K:334:ALA:HB2	3:K:349:GLY:N	2.23	0.54
3:K:370:ASN:OD1	3:K:1054:GLY:HA2	2.07	0.54
5:M:476:LEU:HD11	5:M:538:ILE:HD11	1.90	0.54
6:N:229:LYS:C	6:N:231:ALA:H	2.16	0.54
6:N:488:TYR:O	6:N:489:VAL:CB	2.56	0.54
7:O:34:VAL:O	7:O:38:GLU:HG2	2.06	0.54
1:a:1090:GLN:NE2	1:a:1527:SER:HB3	2.23	0.54
1:a:1094:ILE:HD11	1:a:1526:LYS:HB2	1.89	0.54
2:b:1213:ILE:HG23	2:b:1354:LEU:HD23	1.90	0.54
2:b:1292:ASP:HA	2:b:1295:GLU:CD	2.32	0.54
2:b:1504:ALA:O	2:b:1508:LEU:HB3	2.07	0.54
4:d:1254:VAL:HG22	8:h:1264:THR:O	2.06	0.54
5:e:1035:GLN:OE1	5:e:1036:GLY:HA3	2.06	0.54
6:f:1215:LEU:HB3	6:f:1217:HIS:CD2	2.36	0.54
6:f:1451:LEU:O	6:f:1455:PRO:HD3	2.07	0.54
6:f:1488:TYR:O	6:f:1489:VAL:CB	2.56	0.54
2:j:1027:ILE:HA	2:j:1100:ALA:HB1	1.88	0.54
2:j:1445:ALA:HB2	2:j:1455:LEU:HD23	1.90	0.54
2:j:1504:ALA:O	2:j:1508:LEU:HB3	2.07	0.54
4:l:1423:ARG:HH12	4:l:1473:HIS:CD2	2.26	0.54
5:m:1273:THR:HG22	5:m:1364:PRO:CA	2.20	0.54
7:o:1206:GLY:O	7:o:1379:ARG:HD2	2.07	0.54
7:o:1440:ASN:O	7:o:1444:LYS:HD3	2.08	0.54
1:A:76:GLN:O	1:A:77:HIS:CB	2.55	0.54
2:B:455:LEU:HG	2:B:472:LEU:HD13	1.90	0.54
3:C:241:PRO:O	3:C:350:THR:HG23	2.08	0.54
3:C:515:GLU:OE2	8:H:390:THR:HG22	2.08	0.54
4:D:28:ALA:HB1	4:D:78:LEU:HD11	1.89	0.54
7:G:397:ILE:O	7:G:400:VAL:HG22	2.07	0.54
8:H:131:TYR:HD2	8:H:452:PHE:CD2	2.24	0.54
1:I:350:PHE:HE2	1:I:354:TYR:CB	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:532:LEU:HD22	1:I:536:VAL:HG23	1.90	0.54
2:J:27:ILE:HA	2:J:100:ALA:HB1	1.88	0.54
2:J:70:ASP:HB3	6:N:5:LEU:HD22	1.87	0.54
4:L:246:PRO:HB2	4:L:250:ASN:CG	2.33	0.54
6:N:434:LEU:O	6:N:438:GLY:HA2	2.08	0.54
7:O:440:ASN:O	7:O:444:LYS:HD3	2.08	0.54
1:a:1544:MET:HG2	1:a:1546:THR:HG23	1.90	0.54
2:b:1039:PRO:HA	2:b:1163:SER:CA	2.37	0.54
2:b:1511:VAL:HB	2:b:1514:ILE:HD11	1.88	0.54
4:d:1386:ILE:C	4:d:1388:ASP:H	2.15	0.54
6:f:1053:ILE:C	6:f:1053:ILE:CD1	2.62	0.54
6:f:1195:GLU:CG	6:f:1197:MET:HE1	2.36	0.54
6:f:1439:LYS:HG3	5:m:1034:ASP:CB	2.37	0.54
7:g:1043:THR:CG2	7:g:1064:ASN:CB	2.83	0.54
7:g:1075:VAL:HG11	7:g:1080:ALA:HB1	1.89	0.54
7:g:1440:ASN:O	7:g:1444:LYS:HD3	2.08	0.54
2:j:1359:CYS:CB	2:j:1360:LYS:HA	2.38	0.54
3:k:1334:ALA:HB2	3:k:1349:GLY:N	2.23	0.54
4:l:1246:PRO:HB2	4:l:1250:ASN:CG	2.33	0.54
4:l:1410:LEU:HD22	4:l:1498:LEU:HB3	1.89	0.54
6:n:1016:ASP:O	6:n:1019:LEU:HB2	2.08	0.54
6:n:1016:ASP:CA	6:n:1019:LEU:HD12	2.28	0.54
6:n:1171:THR:O	6:n:1175:THR:CB	2.55	0.54
2:B:459:LEU:CD2	2:B:472:LEU:HG	2.33	0.54
2:B:505:ALA:O	2:B:509:LEU:HB2	2.07	0.54
3:C:334:ALA:HB2	3:C:349:GLY:N	2.23	0.54
4:D:273:ASN:HD22	7:G:268:GLN:HE22	1.56	0.54
5:E:350:GLU:C	5:E:352:GLU:H	2.11	0.54
6:F:434:LEU:O	6:F:438:GLY:HA2	2.08	0.54
6:F:501:PRO:O	6:F:504:GLU:N	2.39	0.54
8:H:237:LYS:HB2	8:H:314:ASN:CB	2.31	0.54
1:I:431:ILE:HG13	1:I:435:ASN:HD22	1.73	0.54
2:J:245:ILE:O	2:J:246:PHE:CB	2.56	0.54
2:J:445:ALA:HB2	2:J:455:LEU:HD23	1.90	0.54
2:J:455:LEU:HG	2:J:472:LEU:HD13	1.90	0.54
2:J:514:ILE:CD1	3:K:47:MET:HB3	2.30	0.54
5:M:88:ALA:CB	5:M:109:LYS:NZ	2.68	0.54
6:N:451:LEU:O	6:N:455:PRO:HD3	2.07	0.54
6:N:458:LEU:HD12	6:N:458:LEU:C	2.33	0.54
7:O:241:ILE:HG12	7:O:292:ILE:HG23	1.89	0.54
8:P:131:TYR:HD2	8:P:452:PHE:CD2	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1045:GLY:C	1:a:1166:SER:HB2	2.33	0.54
2:b:1027:ILE:HA	2:b:1100:ALA:HB1	1.88	0.54
2:b:1239:ASP:OD1	2:b:1290:ILE:HB	2.06	0.54
2:b:1455:LEU:HG	2:b:1472:LEU:HD13	1.90	0.54
2:b:1505:ALA:O	2:b:1509:LEU:HB2	2.07	0.54
4:d:1375:VAL:HG12	4:d:1376:SER:N	2.22	0.54
4:d:1430:ARG:O	4:d:1431:SER:C	2.50	0.54
5:e:1084:THR:HG23	5:e:1418:GLU:OE2	2.08	0.54
8:h:1024:ALA:CB	8:h:1531:ALA:HB1	2.37	0.54
1:i:1090:GLN:NE2	1:i:1527:SER:HB3	2.23	0.54
1:i:1431:ILE:HG13	1:i:1435:ASN:HD22	1.73	0.54
3:k:1104:LEU:HD21	3:k:1517:ALA:HA	1.89	0.54
5:m:1197:HIS:O	5:m:1198:ASP:C	2.49	0.54
5:m:1428:CYS:HA	5:m:1431:ARG:HG3	1.88	0.54
6:n:1125:ALA:CA	6:n:1426:LEU:HD21	2.38	0.54
6:n:1451:LEU:O	6:n:1455:PRO:HD3	2.07	0.54
7:o:1397:ILE:O	7:o:1400:VAL:HG22	2.07	0.54
1:A:350:PHE:CD2	1:A:351:GLU:N	2.72	0.54
2:B:40:LYS:HA	6:F:116:ARG:HG3	1.90	0.54
2:B:213:ILE:HG23	2:B:354:LEU:HD23	1.90	0.54
3:C:506:LYS:O	3:C:510:VAL:HG23	2.06	0.54
6:F:155:ARG:CB	6:F:171:THR:HG23	2.38	0.54
6:F:229:LYS:C	6:F:231:ALA:H	2.16	0.54
6:F:236:LEU:O	6:F:297:ASN:HA	2.08	0.54
6:F:481:GLN:O	6:F:485:GLU:HG2	2.07	0.54
7:G:206:GLY:O	7:G:379:ARG:HD2	2.07	0.54
7:G:455:GLU:HG3	7:G:461:ALA:HB2	1.88	0.54
8:H:482:HIS:C	8:H:484:VAL:N	2.65	0.54
1:I:12:THR:HB	5:M:96:LEU:HA	1.90	0.54
1:I:45:GLY:C	1:I:166:SER:HB2	2.33	0.54
2:J:242:LYS:HE2	2:J:247:GLY:H	1.69	0.54
2:J:359:CYS:CB	2:J:360:LYS:HA	2.38	0.54
3:K:124:ALA:HB1	3:K:441:PRO:CB	2.37	0.54
6:N:2:SER:C	6:N:3:LEU:HD22	2.32	0.54
6:N:125:ALA:CA	6:N:426:LEU:HD21	2.38	0.54
7:O:208:ALA:HB1	7:O:210:GLU:OE1	2.08	0.54
8:P:138:THR:HG21	8:P:452:PHE:HE1	1.72	0.54
1:a:1076:GLN:O	1:a:1077:HIS:CB	2.55	0.54
2:b:1242:LYS:HE2	2:b:1247:GLY:H	1.69	0.54
3:c:1124:ALA:HB1	3:c:1441:PRO:CB	2.37	0.54
4:d:1520:ARG:O	7:g:1049:SER:CB	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1084:THR:HG22	5:e:1086:ASP:N	2.18	0.54
7:g:1206:GLY:O	7:g:1379:ARG:HD2	2.07	0.54
8:h:1138:THR:HG21	8:h:1452:PHE:HE1	1.72	0.54
1:i:1412:THR:OG1	1:i:1520:PRO:HG3	2.08	0.54
2:j:1165:ILE:HD13	6:n:1526:ASN:HB2	1.89	0.54
4:l:1041:PRO:CG	9:l:1601:ADP:C5	2.91	0.54
4:l:1081:VAL:HG22	7:o:1382:ALA:HB2	1.88	0.54
4:l:1214:VAL:HG13	4:l:1362:ARG:HG2	1.89	0.54
4:l:1499:GLN:HE22	9:l:1601:ADP:C2'	2.21	0.54
6:n:1183:ASP:OD1	6:n:1183:ASP:N	2.41	0.54
7:o:1191:ARG:HB3	7:o:1193:ASP:O	2.07	0.54
7:o:1208:ALA:HB1	7:o:1210:GLU:OE1	2.08	0.54
7:o:1386:ILE:O	7:o:1389:VAL:HB	2.07	0.54
7:o:1455:GLU:HG3	7:o:1461:ALA:HB2	1.88	0.54
2:B:45:LEU:HB2	6:F:533:LEU:CB	2.38	0.54
2:B:49:ALA:HB1	6:F:538:ARG:HB2	1.90	0.54
2:B:359:CYS:CB	2:B:360:LYS:HA	2.38	0.54
4:D:110:LEU:CD1	4:D:439:ILE:HG23	2.38	0.54
6:F:488:TYR:O	6:F:489:VAL:CB	2.56	0.54
2:J:213:ILE:HG23	2:J:354:LEU:HD23	1.90	0.54
5:M:188:LEU:CB	5:M:197:HIS:HB2	2.38	0.54
6:N:15:ARG:O	6:N:18:ALA:HB3	2.08	0.54
6:N:154:ALA:HB2	6:N:402:VAL:HG22	1.87	0.54
7:O:377:LEU:H	7:O:377:LEU:CD1	2.19	0.54
2:b:1229:ALA:HB3	2:b:1339:GLU:O	2.07	0.54
3:c:1302:SER:O	3:c:1303:ASP:CB	2.40	0.54
5:e:1188:LEU:CB	5:e:1197:HIS:HB2	2.38	0.54
5:e:1476:LEU:HD11	5:e:1538:ILE:HD11	1.90	0.54
5:e:1544:LEU:HD23	6:f:1384:THR:HG21	1.90	0.54
6:f:1171:THR:N	6:f:1172:PRO:CD	2.71	0.54
1:i:1076:GLN:O	1:i:1077:HIS:CB	2.55	0.54
1:i:1252:GLN:HG3	1:i:1253:LYS:H	1.71	0.54
1:i:1363:GLN:HA	1:i:1372:ILE:HA	1.90	0.54
1:i:1544:MET:HG2	1:i:1546:THR:HG23	1.90	0.54
2:j:1289:LEU:HD12	2:j:1289:LEU:O	2.08	0.54
3:k:1241:PRO:O	3:k:1350:THR:HG23	2.08	0.54
4:l:1418:GLU:HG2	4:l:1450:ILE:HB	1.89	0.54
5:m:1061:ILE:HD13	5:m:1061:ILE:O	2.08	0.54
5:m:1188:LEU:CB	5:m:1197:HIS:HB2	2.38	0.54
6:n:1229:LYS:C	6:n:1231:ALA:H	2.16	0.54
7:o:1043:THR:CG2	7:o:1064:ASN:CB	2.83	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:ILE:HA	2:B:100:ALA:HB1	1.88	0.54
2:B:32:LEU:HG	6:F:532:GLU:CD	2.33	0.54
2:B:32:LEU:HD11	6:F:532:GLU:CD	2.33	0.54
2:B:210:GLU:HB3	2:B:357:SER:O	2.07	0.54
3:C:457:ILE:HD11	3:C:467:LEU:HD22	1.90	0.54
5:E:61:ILE:O	5:E:61:ILE:HD13	2.08	0.54
5:E:355:ALA:HB2	5:E:362:ILE:HD11	1.90	0.54
6:F:2:SER:C	6:F:3:LEU:HD22	2.32	0.54
6:F:16:ASP:O	6:F:19:LEU:HB2	2.08	0.54
6:F:43:LEU:HD22	6:F:57:LYS:HB2	1.84	0.54
7:G:174:ASN:ND2	7:G:209:MET:SD	2.80	0.54
7:G:208:ALA:HB1	7:G:210:GLU:OE1	2.08	0.54
7:G:492:PHE:HA	7:G:497:TRP:NE1	2.21	0.54
8:H:24:ALA:CB	8:H:531:ALA:O	2.56	0.54
8:H:252:CYS:HB2	8:H:343:ARG:H	1.73	0.54
1:I:90:GLN:NE2	1:I:527:SER:HB3	2.22	0.54
1:I:458:ILE:N	1:I:458:ILE:HD12	2.24	0.54
2:J:3:VAL:C	2:J:5:ILE:HG12	2.32	0.54
2:J:289:LEU:HD12	2:J:289:LEU:O	2.08	0.54
2:J:289:LEU:HD13	2:J:294:PRO:HG3	1.90	0.54
4:L:521:ILE:CG2	7:O:50:ASP:O	2.55	0.54
2:b:1124:TYR:O	2:b:1128:SER:HB2	2.08	0.54
5:e:1061:ILE:HD13	5:e:1061:ILE:O	2.08	0.54
6:f:1154:ALA:HB2	6:f:1402:VAL:HG22	1.87	0.54
6:f:1160:THR:H	6:f:1164:ALA:CB	2.20	0.54
6:f:1229:LYS:C	6:f:1231:ALA:H	2.16	0.54
6:f:1236:LEU:O	6:f:1297:ASN:HA	2.08	0.54
7:g:1117:GLU:CD	7:g:1117:GLU:H	2.15	0.54
7:g:1208:ALA:HB1	7:g:1210:GLU:OE1	2.08	0.54
1:i:1020:ILE:CB	1:i:1025:ILE:HG12	2.38	0.54
2:j:1455:LEU:HG	2:j:1472:LEU:HD13	1.90	0.54
4:l:1298:ASN:CB	4:l:1299:ASP:HA	2.37	0.54
5:m:1476:LEU:HD11	5:m:1538:ILE:HD11	1.90	0.54
6:n:1171:THR:O	6:n:1175:THR:OG1	2.24	0.54
7:o:1174:ASN:ND2	7:o:1209:MET:SD	2.80	0.54
8:p:1024:ALA:CB	8:p:1531:ALA:HB1	2.37	0.54
8:p:1229:ASN:HA	8:p:1368:VAL:HG22	1.90	0.54
8:p:1482:HIS:C	8:p:1484:VAL:N	2.65	0.54
1:A:36:VAL:HG13	1:A:70:LEU:HD22	1.89	0.53
4:D:258:ARG:CD	8:H:283:GLN:HE21	2.20	0.53
4:D:386:ILE:C	4:D:388:ASP:H	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:423:ARG:HH12	4:D:473:HIS:CD2	2.26	0.53
4:D:485:ARG:HH22	9:D:601:ADP:HN62	1.55	0.53
5:E:88:ALA:CB	5:E:119:THR:HB	2.29	0.53
6:F:117:ILE:HD12	5:M:34:ASP:C	2.33	0.53
6:F:183:ASP:N	6:F:183:ASP:OD1	2.41	0.53
6:F:451:LEU:O	6:F:455:PRO:HD3	2.07	0.53
7:G:44:LEU:C	7:G:46:PRO:HD2	2.33	0.53
7:G:75:VAL:HG11	7:G:80:ALA:HB1	1.89	0.53
7:G:377:LEU:H	7:G:377:LEU:CD1	2.19	0.53
7:G:386:ILE:O	7:G:389:VAL:HB	2.07	0.53
8:H:354:LEU:HD23	8:H:354:LEU:H	1.73	0.53
2:J:504:ALA:O	2:J:508:LEU:HB3	2.07	0.53
3:K:241:PRO:O	3:K:350:THR:HG23	2.08	0.53
4:L:196:LEU:HD22	4:L:377:VAL:HG22	1.89	0.53
6:N:16:ASP:O	6:N:19:LEU:HB2	2.08	0.53
6:N:481:GLN:O	6:N:485:GLU:HG2	2.08	0.53
8:P:24:ALA:CB	8:P:531:ALA:O	2.56	0.53
2:b:1095:VAL:HG22	2:b:1497:VAL:HG22	1.89	0.53
2:b:1289:LEU:HD13	2:b:1294:PRO:HG3	1.90	0.53
2:b:1359:CYS:CB	2:b:1360:LYS:HA	2.38	0.53
3:c:1241:PRO:O	3:c:1350:THR:HG23	2.08	0.53
3:c:1322:LYS:HG3	3:c:1323:SER:N	2.21	0.53
5:e:1093:GLN:NE2	5:e:1093:GLN:HA	2.23	0.53
6:f:1015:ARG:O	6:f:1018:ALA:HB3	2.08	0.53
1:i:1094:ILE:HD11	1:i:1526:LYS:HB2	1.89	0.53
2:j:1165:ILE:HG12	6:n:1529:LEU:CD1	2.36	0.53
2:j:1213:ILE:HG23	2:j:1354:LEU:HD23	1.90	0.53
4:l:1491:ASN:HB2	4:l:1494:GLU:OE1	2.09	0.53
5:m:1471:GLY:HA2	5:m:1474:GLN:OE1	2.08	0.53
6:n:1236:LEU:O	6:n:1297:ASN:HA	2.08	0.53
7:o:1420:VAL:CG2	7:o:1446:LEU:HD13	2.38	0.53
7:o:1420:VAL:HG23	7:o:1446:LEU:HD13	1.88	0.53
8:p:1067:ASP:HB3	8:p:1070:THR:OG1	2.08	0.53
8:p:1131:TYR:HD2	8:p:1452:PHE:CD2	2.24	0.53
1:A:20:ILE:CB	1:A:25:ILE:HG12	2.38	0.53
2:B:196:ILE:O	2:B:367:ILE:HA	2.09	0.53
4:D:410:LEU:HD22	4:D:498:LEU:HB3	1.89	0.53
6:F:125:ALA:CA	6:F:426:LEU:HD21	2.38	0.53
6:F:352:GLY:C	6:F:367:VAL:CG1	2.78	0.53
7:G:127:LYS:HD3	7:G:127:LYS:C	2.34	0.53
7:G:420:VAL:CG2	7:G:446:LEU:HD13	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:363:GLN:HA	1:I:372:ILE:HA	1.90	0.53
2:J:422:ILE:HG21	2:J:427:SER:CB	2.36	0.53
4:L:196:LEU:HD22	4:L:377:VAL:CG2	2.37	0.53
4:L:375:VAL:HG12	4:L:376:SER:N	2.22	0.53
6:N:57:LYS:NZ	6:N:57:LYS:O	2.40	0.53
6:N:236:LEU:O	6:N:297:ASN:HA	2.08	0.53
7:O:58:GLN:NE2	7:O:58:GLN:HA	2.22	0.53
7:O:127:LYS:HD3	7:O:127:LYS:C	2.34	0.53
8:P:354:LEU:HD23	8:P:354:LEU:H	1.74	0.53
1:a:1458:ILE:HD12	1:a:1458:ILE:N	2.23	0.53
4:d:1196:LEU:HD22	4:d:1377:VAL:HG22	1.89	0.53
4:d:1491:ASN:HB2	4:d:1494:GLU:OE1	2.08	0.53
6:f:1353:LEU:N	6:f:1369:GLU:HB3	2.22	0.53
6:f:1372:ASP:N	6:f:1373:PRO:HD3	2.22	0.53
8:h:1024:ALA:CB	8:h:1531:ALA:O	2.56	0.53
8:h:1472:ASN:ND2	7:o:1120:ILE:HG23	2.23	0.53
2:j:1031:ASP:OD1	2:j:1032:LEU:N	2.40	0.53
2:j:1242:LYS:HE2	2:j:1247:GLY:H	1.69	0.53
4:l:1044:MET:HG3	8:p:1531:ALA:HB3	1.89	0.53
4:l:1110:LEU:CD1	4:l:1439:ILE:HG23	2.38	0.53
4:l:1375:VAL:HG12	4:l:1376:SER:N	2.22	0.53
5:m:1084:THR:HG23	5:m:1418:GLU:OE2	2.08	0.53
6:n:1015:ARG:O	6:n:1018:ALA:HB3	2.08	0.53
6:n:1277:ILE:HG21	6:n:1295:ILE:HG13	1.89	0.53
2:B:31:ASP:OD1	2:B:32:LEU:N	2.40	0.53
2:B:39:PRO:HA	2:B:163:SER:CA	2.37	0.53
2:B:198:ILE:O	2:B:377:LEU:CD2	2.55	0.53
5:E:476:LEU:HD11	5:E:538:ILE:HD11	1.90	0.53
8:H:24:ALA:CB	8:H:531:ALA:HB1	2.37	0.53
1:I:63:THR:HG22	1:I:65:ASP:N	2.22	0.53
1:I:94:ILE:HD11	1:I:526:LYS:HB2	1.89	0.53
1:I:412:THR:OG1	1:I:520:PRO:HG3	2.08	0.53
2:J:459:LEU:CD2	2:J:472:LEU:HG	2.33	0.53
7:O:75:VAL:HG11	7:O:80:ALA:HB1	1.89	0.53
8:P:428:ILE:HD13	8:P:478:LEU:HD13	1.89	0.53
2:b:1127:ALA:CB	2:b:1430:VAL:HG22	2.31	0.53
2:b:1422:ILE:HG21	2:b:1427:SER:CB	2.36	0.53
4:d:1246:PRO:HB2	4:d:1250:ASN:CG	2.33	0.53
1:i:1036:VAL:HG13	1:i:1070:LEU:HD22	1.89	0.53
5:m:1498:LEU:HD11	5:m:1512:VAL:HG23	1.91	0.53
6:n:1155:ARG:CB	6:n:1171:THR:HG23	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1241:ILE:HG12	7:o:1292:ILE:HG23	1.89	0.53
8:p:1354:LEU:HD23	8:p:1354:LEU:H	1.74	0.53
4:D:367:ARG:C	4:D:369:ASN:N	2.67	0.53
6:F:117:ILE:CG1	5:M:33:LYS:HE2	2.34	0.53
2:J:49:ALA:HB2	6:N:536:ALA:O	2.08	0.53
2:J:229:ALA:HB3	2:J:339:GLU:O	2.07	0.53
3:K:457:ILE:HD11	3:K:467:LEU:HD22	1.90	0.53
4:L:110:LEU:CD1	4:L:439:ILE:HG23	2.38	0.53
5:M:84:THR:HG23	5:M:418:GLU:OE2	2.08	0.53
8:P:229:ASN:HA	8:P:368:VAL:HG22	1.90	0.53
8:P:420:LEU:HD23	8:P:421:PRO:N	2.24	0.53
1:a:1036:VAL:HG13	1:a:1070:LEU:HD22	1.89	0.53
1:a:1044:LEU:HD21	1:a:1103:ILE:HD12	1.89	0.53
2:b:1039:PRO:HD2	2:b:1474:LEU:HD12	1.91	0.53
6:f:1045:MET:HA	6:f:1055:LEU:HA	1.91	0.53
6:f:1155:ARG:CB	6:f:1171:THR:HG23	2.38	0.53
2:j:1045:LEU:HD12	6:n:1533:LEU:HD13	1.89	0.53
2:j:1049:ALA:HB2	6:n:1536:ALA:O	2.09	0.53
2:j:1376:THR:HA	2:j:1379:GLU:HB2	1.91	0.53
3:k:1409:SER:C	3:k:1411:SER:H	2.17	0.53
9:k:2101:ADP:C8	9:k:2101:ADP:C4'	2.92	0.53
4:l:1196:LEU:HD22	4:l:1377:VAL:HG22	1.89	0.53
6:n:1105:ALA:C	6:n:1107:ARG:N	2.67	0.53
1:A:431:ILE:HG13	1:A:435:ASN:HD22	1.73	0.53
1:A:532:LEU:HD22	1:A:536:VAL:HG23	1.90	0.53
2:B:124:TYR:O	2:B:128:SER:HB2	2.08	0.53
2:B:127:ALA:CB	2:B:430:VAL:HG22	2.31	0.53
2:B:201:GLY:N	6:F:86:ILE:HD12	2.21	0.53
2:B:319:LEU:CD2	2:B:357:SER:OG	2.57	0.53
3:C:409:SER:C	3:C:411:SER:H	2.17	0.53
3:C:432:LYS:HA	3:C:439:GLN:HE21	1.72	0.53
6:F:35:THR:HG21	6:F:42:THR:O	2.08	0.53
7:G:201:ILE:HG21	7:G:390:GLU:HG3	1.90	0.53
7:G:225:SER:HB3	7:G:314:CYS:O	2.09	0.53
8:H:420:LEU:HD23	8:H:421:PRO:N	2.24	0.53
3:K:409:SER:C	3:K:411:SER:H	2.17	0.53
4:L:491:ASN:HB2	4:L:494:GLU:OE1	2.09	0.53
5:M:471:GLY:HA2	5:M:474:GLN:OE1	2.08	0.53
6:N:183:ASP:N	6:N:183:ASP:OD1	2.41	0.53
7:O:206:GLY:O	7:O:379:ARG:HD2	2.07	0.53
1:a:1363:GLN:HA	1:a:1372:ILE:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1245:ILE:O	2:b:1246:PHE:CG	2.62	0.53
2:b:1249:LYS:O	6:f:1250:GLY:N	2.22	0.53
3:c:1457:ILE:HD11	3:c:1467:LEU:HD22	1.90	0.53
6:f:1002:SER:C	6:f:1003:LEU:HD22	2.32	0.53
6:f:1125:ALA:CA	6:f:1426:LEU:HD21	2.38	0.53
6:f:1345:PRO:O	6:f:1347:ILE:HG13	2.09	0.53
6:f:1352:GLY:C	6:f:1367:VAL:CG1	2.78	0.53
6:f:1501:PRO:O	6:f:1504:GLU:N	2.39	0.53
7:g:1241:ILE:HG12	7:g:1292:ILE:HG23	1.89	0.53
3:k:1422:ALA:HA	3:k:1475:HIS:CE1	2.44	0.53
4:l:1028:ALA:HB1	4:l:1078:LEU:HD11	1.89	0.53
4:l:1198:LYS:HD3	4:l:1198:LYS:H	1.74	0.53
4:l:1367:ARG:C	4:l:1369:ASN:N	2.67	0.53
5:m:1035:GLN:OE1	5:m:1036:GLY:HA3	2.06	0.53
5:m:1355:ALA:HB2	5:m:1362:ILE:HD11	1.90	0.53
6:n:1035:THR:HG22	6:n:1042:THR:H	1.72	0.53
6:n:1171:THR:N	6:n:1172:PRO:CD	2.71	0.53
8:p:1420:LEU:HD23	8:p:1421:PRO:N	2.24	0.53
1:A:63:THR:HG22	1:A:65:ASP:N	2.22	0.53
4:D:12:LYS:HZ2	7:G:73:LEU:CD2	2.22	0.53
6:F:36:ASN:HA	6:F:57:LYS:CD	2.38	0.53
6:F:105:ALA:HA	6:F:108:PHE:CD2	2.44	0.53
6:F:416:GLY:HA2	6:F:419:TYR:CD2	2.44	0.53
6:F:437:LYS:HE2	6:F:437:LYS:CA	2.33	0.53
8:H:27:GLN:O	8:H:31:SER:N	2.33	0.53
1:I:20:ILE:CB	1:I:25:ILE:HG12	2.38	0.53
2:J:30:GLY:CA	2:J:33:VAL:CG2	2.86	0.53
2:J:124:TYR:O	2:J:128:SER:HB2	2.08	0.53
3:K:422:ALA:HA	3:K:475:HIS:CE1	2.44	0.53
4:L:36:ARG:HE	4:L:98:ILE:CG2	2.18	0.53
4:L:423:ARG:HH12	4:L:473:HIS:CD2	2.26	0.53
6:N:83:GLN:CD	6:N:94:VAL:HG21	2.34	0.53
7:O:44:LEU:C	7:O:46:PRO:HD2	2.33	0.53
7:O:191:ARG:HB3	7:O:193:ASP:O	2.08	0.53
1:a:1412:THR:OG1	1:a:1520:PRO:HG3	2.08	0.53
2:b:1003:VAL:C	2:b:1005:ILE:HG12	2.32	0.53
2:b:1201:GLY:H	6:f:1086:ILE:HD12	1.72	0.53
4:d:1147:ARG:HG2	4:d:1148:GLU:H	1.74	0.53
6:f:1016:ASP:O	6:f:1019:LEU:HB2	2.08	0.53
7:g:1044:LEU:C	7:g:1046:PRO:HD2	2.33	0.53
2:j:1200:GLY:O	2:j:1371:GLY:N	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1245:ILE:O	2:j:1246:PHE:CB	2.56	0.53
2:j:1319:LEU:CD2	2:j:1357:SER:OG	2.57	0.53
4:l:1524:ILE:HG22	4:l:1524:ILE:O	2.07	0.53
6:n:1002:SER:C	6:n:1003:LEU:HD22	2.32	0.53
3:C:269:TRP:HH2	6:F:248:ASN:H	1.56	0.53
4:D:77:MET:CE	7:G:384:GLN:HB2	2.39	0.53
5:E:58:ALA:CB	5:E:127:SER:HB3	2.39	0.53
5:E:100:ILE:O	5:E:103:LEU:HB2	2.08	0.53
6:F:45:MET:HA	6:F:55:LEU:HA	1.91	0.53
1:I:44:LEU:HD21	1:I:103:ILE:HD12	1.89	0.53
2:J:43:ASP:O	6:N:530:CYS:HA	2.09	0.53
2:J:45:LEU:HD12	6:N:533:LEU:HD13	1.91	0.53
2:J:250:PHE:HA	6:N:250:GLY:C	2.32	0.53
3:K:413:SER:HB3	3:K:419:THR:HG21	1.91	0.53
4:L:249:GLU:O	7:O:259:VAL:HG12	2.09	0.53
5:M:58:ALA:CB	5:M:127:SER:HB3	2.39	0.53
5:M:227:GLN:O	5:M:407:PHE:HA	2.09	0.53
6:N:105:ALA:HA	6:N:108:PHE:CD2	2.44	0.53
1:a:1351:GLU:C	1:a:1353:SER:H	2.17	0.53
2:b:1245:ILE:O	2:b:1246:PHE:CB	2.56	0.53
3:c:1165:ILE:HA	3:c:1168:SER:HB3	1.91	0.53
3:c:1432:LYS:HA	3:c:1439:GLN:HE21	1.72	0.53
5:e:1310:ILE:HD11	5:e:1331:ALA:HB1	1.91	0.53
5:e:1471:GLY:HA2	5:e:1474:GLN:OE1	2.08	0.53
6:f:1183:ASP:OD1	6:f:1183:ASP:N	2.41	0.53
7:g:1191:ARG:HB3	7:g:1193:ASP:O	2.08	0.53
7:g:1377:LEU:O	7:g:1377:LEU:HD22	2.09	0.53
1:i:1045:GLY:C	1:i:1166:SER:HB2	2.33	0.53
2:j:1124:TYR:O	2:j:1128:SER:HB2	2.08	0.53
2:j:1513:ASN:O	2:j:1514:ILE:CD1	2.45	0.53
5:m:1100:ILE:O	5:m:1103:LEU:HB2	2.08	0.53
6:n:1035:THR:HG21	6:n:1042:THR:O	2.08	0.53
6:n:1036:ASN:HA	6:n:1057:LYS:CD	2.38	0.53
6:n:1345:PRO:O	6:n:1347:ILE:HG13	2.09	0.53
6:n:1458:LEU:HD12	6:n:1458:LEU:C	2.33	0.53
7:o:1044:LEU:C	7:o:1046:PRO:HD2	2.33	0.53
7:o:1075:VAL:HG11	7:o:1080:ALA:HB1	1.89	0.53
7:o:1413:GLY:CA	7:o:1491:ASN:HD21	2.22	0.53
2:B:376:THR:HA	2:B:379:GLU:HB2	1.91	0.53
4:D:246:PRO:HB2	4:D:250:ASN:CG	2.33	0.53
5:E:188:LEU:CB	5:E:197:HIS:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:273:THR:CG2	5:E:364:PRO:CA	2.72	0.53
6:F:5:LEU:CA	6:F:6:LEU:HB2	2.34	0.53
6:F:15:ARG:O	6:F:18:ALA:HB3	2.08	0.53
6:F:433:LYS:O	6:F:436:ALA:C	2.52	0.53
1:I:498:ARG:O	1:I:499:ASN:CB	2.56	0.53
6:N:76:ILE:CG2	6:N:95:VAL:HG13	2.39	0.53
7:O:201:ILE:HG21	7:O:390:GLU:HG3	1.90	0.53
8:P:226:MET:HE1	8:P:328:GLU:HG2	1.91	0.53
1:a:1020:ILE:CB	1:a:1025:ILE:HG12	2.38	0.53
1:a:1501:GLY:HA3	1:a:1512:GLU:CG	2.39	0.53
2:b:1329:PHE:CD2	2:b:1329:PHE:O	2.53	0.53
3:c:1409:SER:C	3:c:1411:SER:H	2.17	0.53
5:e:1058:ALA:HB3	5:e:1127:SER:HB3	1.91	0.53
5:e:1512:VAL:O	9:e:1601:ADP:H2	1.92	0.53
6:f:1083:GLN:CD	6:f:1094:VAL:HG21	2.34	0.53
7:g:1455:GLU:HG3	7:g:1461:ALA:HB2	1.88	0.53
1:i:1458:ILE:HD12	1:i:1458:ILE:N	2.24	0.53
1:i:1501:GLY:HA3	1:i:1512:GLU:CG	2.39	0.53
2:j:1324:GLU:H	3:k:1311:LYS:HZ3	1.55	0.53
2:j:1422:ILE:HG21	2:j:1427:SER:CB	2.36	0.53
7:o:1127:LYS:C	7:o:1127:LYS:HD3	2.34	0.53
8:p:1252:CYS:HB2	8:p:1343:ARG:H	1.73	0.53
8:p:1288:MET:HE2	8:p:1313:LEU:HG	1.91	0.53
1:A:363:GLN:HA	1:A:372:ILE:HA	1.90	0.53
2:B:91:GLY:HA2	9:B:601:ADP:PA	2.48	0.53
4:D:263:ILE:O	4:D:263:ILE:HD13	2.09	0.53
4:D:448:GLU:C	4:D:451:PRO:HD2	2.34	0.53
4:D:524:ILE:HG23	7:G:52:LEU:HD22	1.91	0.53
5:E:58:ALA:HB3	5:E:127:SER:HB3	1.91	0.53
8:H:237:LYS:HB3	8:H:314:ASN:HB3	1.63	0.53
8:H:288:MET:HE2	8:H:313:LEU:HG	1.91	0.53
2:J:39:PRO:HD2	2:J:474:LEU:HD12	1.91	0.53
6:N:35:THR:HG21	6:N:42:THR:O	2.08	0.53
6:N:171:THR:N	6:N:172:PRO:CD	2.71	0.53
6:N:324:ASN:O	6:N:328:LEU:N	2.33	0.53
8:P:67:ASP:HB3	8:P:70:THR:OG1	2.08	0.53
1:a:1164:MET:HE3	1:a:1169:ILE:HB	1.91	0.53
1:a:1532:LEU:HD22	1:a:1536:VAL:HG23	1.90	0.53
2:b:1289:LEU:HD12	2:b:1289:LEU:O	2.08	0.53
4:d:1521:ILE:HG21	7:g:1052:LEU:H	1.73	0.53
5:e:1509:ASN:HB3	5:e:1521:ASP:CB	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1076:ILE:CG2	6:f:1095:VAL:HG13	2.39	0.53
2:j:1229:ALA:HB3	2:j:1339:GLU:O	2.07	0.53
6:n:1075:LEU:HD21	6:n:1523:ILE:HG23	1.89	0.53
7:o:1091:ASP:O	7:o:1095:GLY:CA	2.57	0.53
7:o:1225:SER:HB3	7:o:1314:CYS:O	2.09	0.53
2:B:32:LEU:CD1	6:F:532:GLU:CD	2.82	0.53
2:B:289:LEU:HD12	2:B:289:LEU:O	2.08	0.53
3:C:269:TRP:CZ3	6:F:247:VAL:HB	2.44	0.53
3:C:422:ALA:HA	3:C:475:HIS:CE1	2.44	0.53
4:D:491:ASN:HB2	4:D:494:GLU:OE1	2.09	0.53
6:F:167:THR:HB	6:F:169:VAL:H	1.66	0.53
6:F:171:THR:N	6:F:172:PRO:CD	2.71	0.53
6:F:195:GLU:CG	6:F:197:MET:SD	2.94	0.53
6:F:345:PRO:O	6:F:347:ILE:HG13	2.09	0.53
7:G:43:THR:HB	7:G:99:THR:CG2	2.40	0.53
1:I:541:ILE:HD13	5:M:73:ILE:HG13	1.90	0.53
1:I:544:MET:HG2	1:I:546:THR:HG23	1.90	0.53
5:M:61:ILE:O	5:M:61:ILE:HD13	2.08	0.53
6:N:276:LYS:O	6:N:279:ASP:N	2.42	0.53
6:N:345:PRO:O	6:N:347:ILE:HG13	2.09	0.53
9:N:601:ADP:C8	9:N:601:ADP:O2'	2.62	0.53
1:a:1351:GLU:C	1:a:1353:SER:N	2.66	0.53
2:b:1102:LEU:HD21	2:b:1124:TYR:HD2	1.74	0.53
5:e:1058:ALA:CB	5:e:1127:SER:HB3	2.39	0.53
6:f:1276:LYS:O	6:f:1279:ASP:N	2.43	0.53
6:f:1406:LEU:HB3	6:f:1407:LYS:NZ	2.24	0.53
8:h:1226:MET:HE1	8:h:1328:GLU:HG2	1.91	0.53
8:h:1420:LEU:HD23	8:h:1421:PRO:N	2.24	0.53
2:j:1004:GLN:N	2:j:1005:ILE:HG12	2.19	0.53
2:j:1045:LEU:HB2	6:n:1533:LEU:HB3	1.91	0.53
2:j:1072:PRO:HB3	3:k:1047:MET:CE	2.39	0.53
2:j:1198:ILE:O	2:j:1377:LEU:CD2	2.55	0.53
2:j:1245:ILE:O	2:j:1246:PHE:CG	2.62	0.53
2:j:1367:ILE:HG23	2:j:1367:ILE:O	2.08	0.53
2:j:1459:LEU:CD2	2:j:1472:LEU:HG	2.33	0.53
4:l:1241:ILE:HD13	4:l:1292:ILE:HG23	1.91	0.53
5:m:1058:ALA:CB	5:m:1127:SER:HB3	2.39	0.53
5:m:1273:THR:CG2	5:m:1364:PRO:CA	2.72	0.53
5:m:1373:LYS:HE2	6:n:1311:LYS:NZ	2.24	0.53
6:n:1406:LEU:HB3	6:n:1407:LYS:NZ	2.24	0.53
1:A:544:MET:HG2	1:A:546:THR:HG23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:39:PRO:HD2	2:B:474:LEU:HD12	1.91	0.52
4:D:195:ARG:O	4:D:196:LEU:HD23	2.10	0.52
5:E:471:GLY:HA2	5:E:474:GLN:OE1	2.08	0.52
6:F:83:GLN:CD	6:F:94:VAL:HG21	2.34	0.52
6:F:458:LEU:HD12	6:F:458:LEU:C	2.33	0.52
7:G:307:PHE:CD1	7:G:312:ILE:HG23	2.44	0.52
2:J:64:LEU:HD23	2:J:67:ILE:HD12	1.91	0.52
2:J:263:LYS:HZ1	3:K:266:GLU:HB3	1.66	0.52
5:M:310:ILE:HD11	5:M:331:ALA:HB1	1.91	0.52
5:M:401:THR:C	5:M:402:LYS:CG	2.70	0.52
7:O:225:SER:HB3	7:O:314:CYS:O	2.09	0.52
7:O:377:LEU:O	7:O:377:LEU:HD22	2.09	0.52
8:P:252:CYS:HB2	8:P:343:ARG:H	1.73	0.52
2:b:1422:ILE:CB	2:b:1427:SER:CB	2.79	0.52
3:c:1104:LEU:CD1	3:c:1520:LEU:HD12	2.39	0.52
3:c:1250:LEU:CD1	3:c:1301:VAL:CG2	2.72	0.52
4:d:1110:LEU:CD1	4:d:1439:ILE:HG23	2.38	0.52
6:f:1143:LEU:CD1	6:f:1145:ASN:OD1	2.58	0.52
7:g:1291:ASN:C	7:g:1312:ILE:HG13	2.34	0.52
7:g:1420:VAL:CG2	7:g:1446:LEU:HD13	2.38	0.52
8:h:1354:LEU:HD23	8:h:1354:LEU:H	1.73	0.52
1:i:1498:ARG:O	1:i:1499:ASN:CB	2.57	0.52
3:k:1457:ILE:HD11	3:k:1467:LEU:HD22	1.90	0.52
4:l:1263:ILE:O	4:l:1263:ILE:HD13	2.09	0.52
6:n:1045:MET:HA	6:n:1055:LEU:HA	1.91	0.52
6:n:1105:ALA:HA	6:n:1108:PHE:CD2	2.44	0.52
6:n:1167:THR:OG1	6:n:1169:VAL:HB	2.09	0.52
6:n:1434:LEU:O	6:n:1438:GLY:HA2	2.08	0.52
8:p:1160:LEU:HA	8:p:1163:ILE:HG22	1.92	0.52
1:A:45:GLY:C	1:A:166:SER:HB2	2.33	0.52
1:A:498:ARG:O	1:A:499:ASN:CB	2.57	0.52
2:B:102:LEU:HD21	2:B:124:TYR:HD2	1.75	0.52
2:B:445:ALA:HB2	2:B:455:LEU:HD23	1.90	0.52
5:E:48:LYS:O	5:E:51:ILE:HG22	2.09	0.52
7:G:241:ILE:HG12	7:G:292:ILE:HG23	1.89	0.52
8:H:328:GLU:HG3	8:H:331:ARG:HH12	1.72	0.52
1:I:501:GLY:HA3	1:I:512:GLU:CG	2.39	0.52
2:J:106:ALA:HB1	2:J:509:LEU:HD11	1.91	0.52
4:L:310:ILE:HG22	4:L:312:VAL:HG23	1.92	0.52
5:M:100:ILE:O	5:M:103:LEU:HB2	2.08	0.52
6:N:45:MET:HA	6:N:55:LEU:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:167:THR:OG1	6:N:169:VAL:HB	2.09	0.52
6:N:231:ALA:O	6:N:351:SER:OG	2.22	0.52
8:P:423:ALA:HA	9:P:601:ADP:H2'	1.90	0.52
2:b:1153:LEU:HB3	2:b:1178:THR:HG22	1.92	0.52
2:b:1319:LEU:CD2	2:b:1357:SER:OG	2.57	0.52
4:d:1195:ARG:O	4:d:1196:LEU:HD23	2.10	0.52
4:d:1448:GLU:C	4:d:1451:PRO:HD2	2.34	0.52
5:e:1227:GLN:O	5:e:1407:PHE:HA	2.09	0.52
6:f:1167:THR:OG1	6:f:1169:VAL:HB	2.09	0.52
8:h:1006:PRO:N	4:l:1071:LEU:CB	2.73	0.52
2:j:1127:ALA:CB	2:j:1430:VAL:HG22	2.31	0.52
2:j:1295:GLU:OE1	6:n:1339:SER:HB3	2.08	0.52
2:j:1422:ILE:CB	2:j:1427:SER:CB	2.79	0.52
3:k:1320:VAL:O	3:k:1321:LYS:O	2.28	0.52
6:n:1076:ILE:CG2	6:n:1095:VAL:HG13	2.39	0.52
6:n:1416:GLY:HA2	6:n:1419:TYR:CD2	2.44	0.52
8:p:1024:ALA:CB	8:p:1531:ALA:O	2.56	0.52
2:B:88:VAL:HG13	2:B:393:GLN:NE2	2.21	0.52
5:E:74:LEU:HG	5:E:93:GLN:CB	2.39	0.52
5:E:84:THR:HG22	5:E:86:ASP:N	2.19	0.52
5:E:498:LEU:HD11	5:E:512:VAL:HG23	1.91	0.52
7:G:66:GLY:HA2	7:G:69:ILE:HG22	1.92	0.52
8:H:428:ILE:HD13	8:H:478:LEU:HD13	1.90	0.52
1:I:36:VAL:HG13	1:I:70:LEU:HD22	1.89	0.52
1:I:351:GLU:C	1:I:353:SER:N	2.66	0.52
4:L:241:ILE:HD13	4:L:292:ILE:HG23	1.92	0.52
6:N:129:SER:HB2	6:N:426:LEU:HD23	1.91	0.52
7:O:420:VAL:CG2	7:O:446:LEU:HD13	2.38	0.52
1:a:1431:ILE:HG13	1:a:1435:ASN:HD22	1.73	0.52
4:d:1310:ILE:HG22	4:d:1312:VAL:HG23	1.92	0.52
5:e:1355:ALA:HB2	5:e:1362:ILE:HD11	1.90	0.52
6:f:1353:LEU:O	6:f:1367:VAL:HG12	2.09	0.52
7:g:1174:ASN:ND2	7:g:1209:MET:SD	2.80	0.52
7:g:1225:SER:HB3	7:g:1314:CYS:O	2.09	0.52
8:h:1288:MET:HE2	8:h:1313:LEU:HG	1.91	0.52
2:j:1064:LEU:HD23	2:j:1067:ILE:HD12	1.91	0.52
2:j:1106:ALA:HB1	2:j:1509:LEU:HD11	1.91	0.52
4:l:1419:ILE:O	4:l:1423:ARG:HG3	2.10	0.52
6:n:1167:THR:HA	6:n:1168:GLU:CB	2.40	0.52
6:n:1433:LYS:O	6:n:1436:ALA:C	2.52	0.52
8:p:1138:THR:HG21	8:p:1452:PHE:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:ILE:N	1:A:458:ILE:HD12	2.24	0.52
2:B:407:ALA:O	2:B:411:MET:HG2	2.10	0.52
4:D:198:LYS:HD3	4:D:198:LYS:H	1.74	0.52
6:F:76:ILE:CG2	6:F:95:VAL:HG13	2.39	0.52
6:F:129:SER:HB2	6:F:426:LEU:HD23	1.91	0.52
6:F:406:LEU:HB3	6:F:407:LYS:NZ	2.24	0.52
8:H:226:MET:HE1	8:H:328:GLU:HG2	1.91	0.52
2:J:102:LEU:O	2:J:105:GLU:HB2	2.10	0.52
2:J:514:ILE:HG22	2:J:515:ILE:N	2.24	0.52
3:K:320:VAL:CG1	3:K:324:ASP:HB3	2.40	0.52
4:L:69:ALA:O	8:P:15:LYS:HE2	2.09	0.52
4:L:72:HIS:CD2	8:P:15:LYS:HZ2	2.28	0.52
5:M:355:ALA:HB2	5:M:362:ILE:HD11	1.90	0.52
5:M:498:LEU:HD11	5:M:512:VAL:HG23	1.91	0.52
5:M:544:LEU:HD23	6:N:384:THR:CG2	2.40	0.52
6:N:171:THR:O	6:N:175:THR:OG1	2.24	0.52
6:N:433:LYS:O	6:N:436:ALA:C	2.52	0.52
8:P:463:LEU:HD11	9:P:601:ADP:H8	1.73	0.52
2:b:1102:LEU:O	2:b:1105:GLU:HB2	2.10	0.52
2:b:1445:ALA:HB2	2:b:1455:LEU:HD23	1.90	0.52
3:c:1320:VAL:O	3:c:1321:LYS:O	2.28	0.52
3:c:1457:ILE:HD13	3:c:1467:LEU:CD1	2.19	0.52
5:e:1048:LYS:O	5:e:1051:ILE:HG22	2.09	0.52
5:e:1100:ILE:O	5:e:1103:LEU:HB2	2.09	0.52
5:e:1186:THR:HG23	5:e:1187:SER:N	2.24	0.52
6:f:1143:LEU:HD13	6:f:1145:ASN:OD1	2.10	0.52
6:f:1488:TYR:O	6:f:1489:VAL:HB	2.10	0.52
8:h:1067:ASP:HB3	8:h:1070:THR:OG1	2.08	0.52
8:h:1138:THR:HG21	8:h:1452:PHE:CE1	2.45	0.52
8:h:1160:LEU:HA	8:h:1163:ILE:HG22	1.92	0.52
1:i:1351:GLU:C	1:i:1353:SER:N	2.66	0.52
2:j:1045:LEU:HB2	6:n:1533:LEU:HB2	1.91	0.52
2:j:1289:LEU:HD13	2:j:1294:PRO:HG3	1.90	0.52
5:m:1093:GLN:HA	5:m:1093:GLN:NE2	2.23	0.52
5:m:1186:THR:HG23	5:m:1187:SER:N	2.25	0.52
5:m:1227:GLN:O	5:m:1407:PHE:HA	2.09	0.52
6:n:1129:SER:HB2	6:n:1426:LEU:HD23	1.91	0.52
6:n:1352:GLY:C	6:n:1367:VAL:CG1	2.78	0.52
7:o:1291:ASN:C	7:o:1312:ILE:HG13	2.34	0.52
2:B:102:LEU:HD21	2:B:124:TYR:CD2	2.45	0.52
5:E:166:ASP:N	5:E:167:ASP:CB	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:186:THR:HG23	5:E:187:SER:N	2.24	0.52
7:G:516:LEU:HD13	7:G:517:ILE:H	1.75	0.52
8:H:54:ILE:HG13	8:H:64:ILE:CG1	2.15	0.52
8:H:160:LEU:HA	8:H:163:ILE:HG22	1.92	0.52
2:J:102:LEU:HD21	2:J:124:TYR:CD2	2.45	0.52
2:J:245:ILE:O	2:J:246:PHE:CG	2.62	0.52
2:J:319:LEU:HD23	2:J:319:LEU:C	2.35	0.52
2:J:319:LEU:CD2	2:J:357:SER:OG	2.57	0.52
5:M:48:LYS:O	5:M:51:ILE:HG22	2.09	0.52
5:M:58:ALA:HB3	5:M:127:SER:HB3	1.91	0.52
7:O:91:ASP:O	7:O:95:GLY:CA	2.57	0.52
8:P:138:THR:HG21	8:P:452:PHE:CE1	2.45	0.52
8:P:160:LEU:HA	8:P:163:ILE:HG22	1.92	0.52
2:b:1159:THR:HG21	2:b:1488:VAL:N	2.25	0.52
4:d:1094:THR:O	4:d:1098:ILE:HG12	2.10	0.52
2:j:1514:ILE:HG22	2:j:1515:ILE:N	2.24	0.52
3:k:1320:VAL:CG1	3:k:1324:ASP:HB3	2.40	0.52
4:l:1178:VAL:CG1	4:l:1401:ILE:HD11	2.40	0.52
4:l:1195:ARG:O	4:l:1196:LEU:HD23	2.10	0.52
4:l:1448:GLU:C	4:l:1451:PRO:HD2	2.34	0.52
5:m:1509:ASN:HB3	5:m:1521:ASP:CB	2.36	0.52
6:n:1143:LEU:CD1	6:n:1145:ASN:OD1	2.58	0.52
8:p:1226:MET:HE1	8:p:1328:GLU:HG2	1.91	0.52
2:B:106:ALA:HB1	2:B:509:LEU:HD11	1.91	0.52
3:C:320:VAL:CG1	3:C:324:ASP:HB3	2.40	0.52
3:C:341:GLU:OE1	8:H:281:GLU:OE1	2.28	0.52
3:C:413:SER:HB3	3:C:419:THR:HG21	1.91	0.52
5:E:37:ASN:HD22	6:N:114:HIS:CD2	2.27	0.52
4:L:85:GLN:NE2	4:L:507:ALA:HB2	2.25	0.52
4:L:195:ARG:O	4:L:196:LEU:HD23	2.10	0.52
4:L:263:ILE:O	4:L:263:ILE:HD13	2.09	0.52
4:L:448:GLU:C	4:L:451:PRO:HD2	2.34	0.52
6:N:436:ALA:HA	6:N:437:LYS:HE2	1.92	0.52
8:P:288:MET:HE2	8:P:313:LEU:HG	1.91	0.52
2:b:1064:LEU:HD23	2:b:1067:ILE:HD12	1.91	0.52
2:b:1102:LEU:HD21	2:b:1124:TYR:CD2	2.45	0.52
2:b:1231:ILE:HD13	2:b:1282:ASN:HB2	1.92	0.52
2:b:1319:LEU:HD23	2:b:1319:LEU:C	2.35	0.52
3:c:1320:VAL:CG1	3:c:1324:ASP:HB3	2.40	0.52
3:c:1413:SER:HB3	3:c:1419:THR:HG21	1.91	0.52
6:f:1056:THR:OG1	6:f:1061:VAL:HG11	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1167:THR:HA	6:f:1168:GLU:CB	2.40	0.52
1:i:1543:THR:O	5:m:1072:LYS:HB3	2.10	0.52
4:l:1007:SER:HA	7:o:1035:ALA:HB1	1.91	0.52
4:l:1310:ILE:HG22	4:l:1312:VAL:HG23	1.92	0.52
5:m:1373:LYS:HE2	6:n:1311:LYS:HZ3	1.74	0.52
5:m:1547:MET:SD	6:n:1387:ALA:HA	2.49	0.52
6:n:1424:ARG:HG2	6:n:1483:SER:CA	2.34	0.52
2:B:30:GLY:CA	2:B:33:VAL:CG2	2.86	0.52
2:B:153:LEU:HB3	2:B:178:THR:HG22	1.92	0.52
2:B:245:ILE:O	2:B:246:PHE:CB	2.56	0.52
3:C:184:LYS:HA	3:C:198:ILE:C	2.35	0.52
3:C:320:VAL:O	3:C:321:LYS:O	2.28	0.52
4:D:94:THR:O	4:D:98:ILE:HG12	2.10	0.52
4:D:135:LEU:HD11	4:D:411:ILE:HD11	1.92	0.52
4:D:292:ILE:HG13	4:D:293:LEU:CA	2.40	0.52
7:G:91:ASP:O	7:G:95:GLY:CA	2.57	0.52
7:G:243:SER:HB2	7:G:334:ILE:HD13	1.92	0.52
8:H:229:ASN:HA	8:H:368:VAL:HG22	1.91	0.52
1:I:226:CYS:SG	1:I:318:VAL:HG12	2.50	0.52
2:J:102:LEU:HD21	2:J:124:TYR:HD2	1.74	0.52
2:J:159:THR:HG21	2:J:488:VAL:N	2.25	0.52
2:J:376:THR:HA	2:J:379:GLU:HB2	1.91	0.52
2:J:492:LYS:H	2:J:492:LYS:HZ1	1.57	0.52
3:K:60:ASP:OD1	3:K:93:THR:HG21	2.10	0.52
6:N:275:LYS:O	6:N:276:LYS:C	2.52	0.52
7:O:307:PHE:CD1	7:O:312:ILE:HG23	2.44	0.52
7:O:516:LEU:CD2	7:O:516:LEU:O	2.46	0.52
1:a:1344:LEU:CD1	1:a:1345:GLU:H	2.23	0.52
1:a:1494:ARG:CB	1:a:1496:SER:H	2.21	0.52
1:a:1498:ARG:O	1:a:1499:ASN:CB	2.57	0.52
2:b:1004:GLN:N	2:b:1005:ILE:HG12	2.19	0.52
2:b:1376:THR:HA	2:b:1379:GLU:HB2	1.91	0.52
2:b:1459:LEU:CD2	2:b:1472:LEU:HG	2.33	0.52
4:d:1198:LYS:HD3	4:d:1198:LYS:H	1.74	0.52
6:f:1416:GLY:HA2	6:f:1419:TYR:CD2	2.44	0.52
6:f:1420:ILE:CB	6:f:1482:ASP:OD1	2.58	0.52
6:f:1433:LYS:O	6:f:1436:ALA:C	2.52	0.52
7:g:1043:THR:HB	7:g:1099:THR:CG2	2.39	0.52
7:g:1127:LYS:C	7:g:1127:LYS:HD3	2.34	0.52
7:g:1156:GLU:OE1	7:g:1157:LEU:HB2	2.10	0.52
7:g:1413:GLY:CA	7:g:1491:ASN:HD21	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1229:ASN:HA	8:h:1368:VAL:HG22	1.90	0.52
1:i:1344:LEU:CD1	1:i:1345:GLU:H	2.23	0.52
1:i:1351:GLU:C	1:i:1353:SER:H	2.17	0.52
2:j:1102:LEU:HD21	2:j:1124:TYR:CD2	2.45	0.52
3:k:1184:LYS:HA	3:k:1198:ILE:C	2.35	0.52
5:m:1173:ASP:HB3	5:m:1437:SER:HB3	1.87	0.52
6:n:1420:ILE:CB	6:n:1482:ASP:OD1	2.58	0.52
7:o:1201:ILE:HG21	7:o:1390:GLU:HG3	1.90	0.52
7:o:1243:SER:HB2	7:o:1334:ILE:HD13	1.92	0.52
7:o:1377:LEU:O	7:o:1377:LEU:HD22	2.09	0.52
1:A:147:SER:OG	1:A:418:VAL:HB	2.10	0.52
1:A:344:LEU:CD1	1:A:345:GLU:H	2.23	0.52
2:B:64:LEU:HD23	2:B:67:ILE:HD12	1.91	0.52
2:B:68:PRO:HG2	6:F:536:ALA:HB2	1.92	0.52
2:B:245:ILE:O	2:B:246:PHE:CG	2.62	0.52
4:D:85:GLN:NE2	4:D:507:ALA:HB2	2.25	0.52
4:D:178:VAL:CG1	4:D:401:ILE:HD11	2.40	0.52
6:F:16:ASP:CA	6:F:19:LEU:HD12	2.28	0.52
6:F:420:ILE:CB	6:F:482:ASP:OD1	2.58	0.52
6:F:515:ASN:ND2	6:F:516:ALA:N	2.58	0.52
7:G:156:GLU:OE1	7:G:157:LEU:HB2	2.10	0.52
7:G:303:ALA:O	7:G:307:PHE:HD2	1.93	0.52
8:H:138:THR:HG21	8:H:452:PHE:CE1	2.45	0.52
2:J:231:ILE:HD13	2:J:282:ASN:HB2	1.92	0.52
2:J:256:ALA:HB1	3:K:266:GLU:OE2	2.10	0.52
2:J:295:GLU:HB2	6:N:337:GLN:CD	2.35	0.52
2:J:407:ALA:O	2:J:411:MET:HG2	2.10	0.52
3:K:184:LYS:HA	3:K:198:ILE:C	2.35	0.52
4:L:449:VAL:O	4:L:453:THR:HG23	2.10	0.52
5:M:74:LEU:HG	5:M:93:GLN:CB	2.39	0.52
6:N:246:GLU:CD	6:N:246:GLU:H	2.18	0.52
6:N:420:ILE:CB	6:N:482:ASP:OD1	2.58	0.52
2:b:1422:ILE:HG22	2:b:1424:GLY:H	1.75	0.52
3:c:1060:ASP:OD1	3:c:1093:THR:HG21	2.10	0.52
4:d:1263:ILE:O	4:d:1263:ILE:HD13	2.09	0.52
6:f:1105:ALA:HA	6:f:1108:PHE:CD2	2.44	0.52
6:f:1367:VAL:HG12	6:f:1369:GLU:O	2.10	0.52
1:i:1164:MET:HE3	1:i:1169:ILE:HB	1.91	0.52
2:j:1102:LEU:O	2:j:1105:GLU:HB2	2.10	0.52
4:l:1147:ARG:HG2	4:l:1148:GLU:H	1.74	0.52
4:l:1292:ILE:HG13	4:l:1293:LEU:CA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:GLY:HA3	1:A:512:GLU:CG	2.39	0.52
2:B:102:LEU:O	2:B:105:GLU:HB2	2.10	0.52
2:B:514:ILE:HG22	2:B:515:ILE:N	2.24	0.52
3:C:165:ILE:HA	3:C:168:SER:HB3	1.91	0.52
4:D:241:ILE:HD13	4:D:292:ILE:HG23	1.91	0.52
6:F:57:LYS:NZ	6:F:57:LYS:O	2.40	0.52
6:F:137:LYS:O	6:F:138:ILE:HB	2.10	0.52
6:F:353:LEU:O	6:F:367:VAL:HG12	2.09	0.52
7:G:424:LEU:O	7:G:427:TYR:N	2.43	0.52
4:L:20:VAL:HG13	4:L:524:ILE:HD12	1.92	0.52
4:L:292:ILE:HG13	4:L:293:LEU:CA	2.40	0.52
4:L:521:ILE:CD1	7:O:62:ILE:HD12	2.36	0.52
6:N:36:ASN:HA	6:N:57:LYS:CD	2.38	0.52
6:N:143:LEU:CD1	6:N:145:ASN:OD1	2.58	0.52
6:N:342:ASP:O	6:N:345:PRO:HD3	2.10	0.52
6:N:367:VAL:HG12	6:N:369:GLU:O	2.10	0.52
6:N:488:TYR:O	6:N:489:VAL:HB	2.10	0.52
7:O:243:SER:HB2	7:O:334:ILE:HD13	1.92	0.52
7:O:303:ALA:O	7:O:307:PHE:HD2	1.92	0.52
2:b:1032:LEU:CD1	6:f:1532:GLU:OE2	2.58	0.52
2:b:1198:ILE:O	2:b:1377:LEU:CD2	2.55	0.52
2:b:1513:ASN:O	2:b:1514:ILE:CD1	2.46	0.52
2:b:1514:ILE:HG22	2:b:1515:ILE:N	2.24	0.52
4:d:1449:VAL:O	4:d:1453:THR:HG23	2.10	0.52
6:f:1057:LYS:NZ	6:f:1057:LYS:O	2.40	0.52
6:f:1138:ILE:O	6:f:1138:ILE:CG2	2.58	0.52
6:f:1515:ASN:HD22	6:f:1515:ASN:C	2.18	0.52
7:g:1091:ASP:O	7:g:1095:GLY:CA	2.57	0.52
7:g:1201:ILE:HG21	7:g:1390:GLU:HG3	1.90	0.52
7:g:1303:ALA:O	7:g:1307:PHE:HD2	1.93	0.52
1:i:1092:ARG:HG2	5:m:1388:THR:CB	2.40	0.52
1:i:1147:SER:OG	1:i:1418:VAL:HB	2.10	0.52
2:j:1319:LEU:HD23	2:j:1319:LEU:C	2.35	0.52
4:l:1135:LEU:HD11	4:l:1411:ILE:HD11	1.92	0.52
4:l:1449:VAL:O	4:l:1453:THR:HG23	2.10	0.52
5:m:1048:LYS:O	5:m:1051:ILE:HG22	2.09	0.52
6:n:1342:ASP:O	6:n:1345:PRO:HD3	2.10	0.52
7:o:1225:SER:O	7:o:1226:TYR:HB3	2.10	0.52
1:A:164:MET:HE3	1:A:169:ILE:HB	1.91	0.52
2:B:159:THR:HG21	2:B:488:VAL:N	2.25	0.52
4:D:419:ILE:O	4:D:423:ARG:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:143:LEU:HD13	6:F:145:ASN:CB	2.40	0.52
7:G:291:ASN:C	7:G:312:ILE:HG13	2.34	0.52
8:H:67:ASP:HB3	8:H:70:THR:OG1	2.08	0.52
8:H:243:LYS:HB3	8:H:244:LYS:CE	2.40	0.52
2:J:198:ILE:O	2:J:377:LEU:CD2	2.55	0.52
4:L:94:THR:O	4:L:98:ILE:HG12	2.10	0.52
4:L:419:ILE:O	4:L:423:ARG:HG3	2.10	0.52
6:N:416:GLY:HA2	6:N:419:TYR:CD2	2.44	0.52
7:O:516:LEU:HD13	7:O:517:ILE:H	1.75	0.52
2:b:1319:LEU:HD11	2:b:1355:LYS:O	2.10	0.52
3:c:1422:ALA:HA	3:c:1475:HIS:CE1	2.44	0.52
6:f:1439:LYS:N	6:f:1439:LYS:CD	2.67	0.52
7:g:1066:GLY:HA2	7:g:1069:ILE:HG22	1.91	0.52
7:g:1242:LEU:HB2	7:g:1293:VAL:HG12	1.92	0.52
7:g:1516:LEU:HD13	7:g:1517:ILE:H	1.75	0.52
8:h:1452:PHE:CE1	8:h:1456:PHE:HE2	2.28	0.52
2:j:1032:LEU:HG	6:n:1532:GLU:CD	2.35	0.52
3:k:1508:GLN:HG2	8:p:1215:GLY:HA2	1.92	0.52
1:A:549:PRO:HA	5:E:77:PRO:O	2.10	0.51
3:C:104:LEU:CD1	3:C:520:LEU:HD12	2.39	0.51
3:C:491:ILE:HD13	3:C:491:ILE:H	1.75	0.51
4:D:310:ILE:HG22	4:D:312:VAL:HG23	1.91	0.51
5:E:509:ASN:O	5:E:521:ASP:HA	2.09	0.51
6:F:92:THR:OG1	9:F:601:ADP:O2B	2.28	0.51
6:F:143:LEU:CD1	6:F:145:ASN:OD1	2.58	0.51
6:F:167:THR:OG1	6:F:169:VAL:HB	2.09	0.51
6:F:276:LYS:O	6:F:279:ASP:N	2.43	0.51
6:F:488:TYR:O	6:F:489:VAL:HG12	2.10	0.51
7:G:377:LEU:O	7:G:377:LEU:HD22	2.09	0.51
2:J:45:LEU:HB2	6:N:533:LEU:HB2	1.92	0.51
2:J:250:PHE:CA	6:N:250:GLY:O	2.56	0.51
4:L:226:PRO:CB	4:L:311:MET:HG2	2.40	0.51
6:N:201:HIS:HB3	6:N:381:LYS:HZ3	1.74	0.51
8:P:463:LEU:CD1	9:P:601:ADP:H8	2.23	0.51
1:a:1147:SER:OG	1:a:1418:VAL:HB	2.10	0.51
2:b:1242:LYS:HE3	2:b:1247:GLY:N	2.25	0.51
3:c:1250:LEU:N	3:c:1250:LEU:HD23	2.26	0.51
3:c:1491:ILE:HD13	3:c:1491:ILE:H	1.75	0.51
5:e:1076:SER:HB2	5:e:1079:GLY:H	1.75	0.51
5:e:1498:LEU:HD11	5:e:1512:VAL:HG23	1.91	0.51
6:f:1143:LEU:HD13	6:f:1145:ASN:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1243:SER:HB2	7:g:1334:ILE:HD13	1.92	0.51
7:g:1292:ILE:HA	7:g:1313:PHE:O	2.10	0.51
2:j:1153:LEU:HB3	2:j:1178:THR:HG22	1.92	0.51
4:l:1523:ASP:O	7:o:1051:ILE:CG2	2.49	0.51
2:B:43:ASP:OD1	6:F:529:LEU:HD22	2.11	0.51
2:B:319:LEU:HD11	2:B:355:LYS:O	2.10	0.51
4:D:226:PRO:CB	4:D:311:MET:HG2	2.40	0.51
5:E:197:HIS:O	5:E:200:PHE:N	2.44	0.51
5:E:310:ILE:HD11	5:E:331:ALA:HB1	1.91	0.51
5:E:431:ARG:O	5:E:434:VAL:HG12	2.10	0.51
6:F:356:GLN:CB	6:F:365:THR:HG22	2.40	0.51
6:F:488:TYR:O	6:F:489:VAL:HB	2.10	0.51
2:J:153:LEU:HB3	2:J:178:THR:HG22	1.92	0.51
7:O:225:SER:O	7:O:226:TYR:HB3	2.10	0.51
7:O:242:LEU:HB2	7:O:293:VAL:HG12	1.93	0.51
3:c:1153:LYS:HD3	3:c:1500:TRP:CD1	2.46	0.51
4:d:1292:ILE:HG13	4:d:1293:LEU:CA	2.40	0.51
4:d:1419:ILE:O	4:d:1423:ARG:HG3	2.10	0.51
5:e:1074:LEU:HG	5:e:1093:GLN:CB	2.39	0.51
5:e:1509:ASN:O	5:e:1521:ASP:HA	2.09	0.51
6:f:1037:LEU:HB3	9:f:1601:ADP:O2A	2.09	0.51
6:f:1230:ASN:H	6:f:1353:LEU:HD23	1.76	0.51
8:h:1250:PHE:CE2	8:h:1299:ILE:HD12	2.45	0.51
3:k:1060:ASP:OD1	3:k:1093:THR:HG21	2.10	0.51
4:l:1219:ALA:HB1	4:l:1221:LYS:HZ3	1.75	0.51
4:l:1226:PRO:CB	4:l:1311:MET:HG2	2.40	0.51
4:l:1390:THR:O	4:l:1394:LEU:HD23	2.10	0.51
5:m:1058:ALA:HB3	5:m:1127:SER:HB3	1.91	0.51
5:m:1310:ILE:HD11	5:m:1331:ALA:HB1	1.91	0.51
5:m:1509:ASN:O	5:m:1521:ASP:HA	2.09	0.51
6:n:1056:THR:OG1	6:n:1061:VAL:HG11	2.10	0.51
6:n:1083:GLN:CD	6:n:1094:VAL:HG21	2.34	0.51
6:n:1353:LEU:O	6:n:1367:VAL:HG12	2.09	0.51
6:n:1424:ARG:HD3	6:n:1483:SER:OG	2.11	0.51
7:o:1516:LEU:HD13	7:o:1517:ILE:H	1.75	0.51
3:C:38:CYS:HA	3:C:44:MET:H	1.75	0.51
4:D:192:ASN:HB2	7:G:361:ARG:HH21	1.76	0.51
6:F:39:PRO:HA	6:F:160:THR:CB	2.40	0.51
6:F:342:ASP:O	6:F:345:PRO:HD3	2.10	0.51
6:F:515:ASN:HD22	6:F:515:ASN:C	2.18	0.51
3:K:49:LEU:HD21	3:K:55:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:250:LEU:N	3:K:250:LEU:HD23	2.26	0.51
4:L:147:ARG:HG2	4:L:148:GLU:H	1.74	0.51
5:M:431:ARG:O	5:M:434:VAL:HG12	2.10	0.51
6:N:92:THR:HG23	10:N:602:BEF:F3	2.00	0.51
6:N:138:ILE:O	6:N:138:ILE:CG2	2.58	0.51
6:N:356:GLN:CB	6:N:365:THR:HG22	2.40	0.51
7:O:413:GLY:CA	7:O:491:ASN:HD21	2.22	0.51
8:P:304:GLY:N	8:P:323:VAL:HG11	2.26	0.51
2:b:1195:ILE:HG21	2:b:1381:GLU:HB2	1.92	0.51
2:b:1242:LYS:HB2	3:c:1269:TRP:CZ2	2.34	0.51
4:d:1085:GLN:NE2	4:d:1507:ALA:HB2	2.25	0.51
8:h:1031:SER:O	8:h:1035:ILE:HG12	2.11	0.51
1:i:1147:SER:HB3	1:i:1418:VAL:O	2.11	0.51
2:j:1039:PRO:HD2	2:j:1474:LEU:HD12	1.91	0.51
3:k:1250:LEU:N	3:k:1250:LEU:HD23	2.26	0.51
5:m:1197:HIS:O	5:m:1200:PHE:N	2.44	0.51
5:m:1556:ILE:HG23	6:n:1047:VAL:HB	1.92	0.51
6:n:1129:SER:O	6:n:1422:LEU:HD23	2.10	0.51
6:n:1151:LEU:CD2	6:n:1175:THR:HG23	2.41	0.51
6:n:1488:TYR:O	6:n:1489:VAL:HG12	2.10	0.51
7:o:1303:ALA:O	7:o:1307:PHE:HD2	1.93	0.51
2:B:242:LYS:HE2	2:B:247:GLY:H	1.69	0.51
5:E:76:SER:HB2	5:E:79:GLY:H	1.75	0.51
6:F:129:SER:O	6:F:422:LEU:HD23	2.10	0.51
8:H:163:ILE:CG2	8:H:179:SER:HB2	2.40	0.51
2:J:88:VAL:HG13	2:J:393:GLN:NE2	2.21	0.51
3:K:165:ILE:HA	3:K:168:SER:HB3	1.91	0.51
5:M:76:SER:HB2	5:M:79:GLY:H	1.75	0.51
5:M:186:THR:HG23	5:M:187:SER:N	2.24	0.51
6:N:488:TYR:O	6:N:489:VAL:HG12	2.10	0.51
2:b:1049:ALA:HB2	6:f:1536:ALA:O	2.10	0.51
6:f:1043:LEU:CD2	6:f:1161:LYS:HA	2.40	0.51
6:f:1129:SER:HB2	6:f:1426:LEU:HD23	1.91	0.51
6:f:1538:ARG:CG	6:f:1538:ARG:NH1	2.72	0.51
7:g:1307:PHE:CD1	7:g:1312:ILE:HG23	2.44	0.51
8:h:1304:GLY:N	8:h:1323:VAL:HG11	2.26	0.51
1:i:1221:GLY:HA3	1:i:1374:ILE:O	2.11	0.51
2:j:1102:LEU:HD21	2:j:1124:TYR:HD2	1.75	0.51
3:k:1049:LEU:HD21	3:k:1055:LEU:HD23	1.92	0.51
5:m:1074:LEU:HG	5:m:1093:GLN:CB	2.39	0.51
6:n:1143:LEU:HD13	6:n:1145:ASN:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1230:ASN:H	6:n:1353:LEU:HD23	1.76	0.51
6:n:1436:ALA:HA	6:n:1437:LYS:HE2	1.92	0.51
6:n:1515:ASN:ND2	6:n:1516:ALA:N	2.58	0.51
7:o:1307:PHE:CD1	7:o:1312:ILE:HG23	2.44	0.51
7:o:1459:PHE:HB3	7:o:1460:ASP:HB3	1.93	0.51
8:p:1304:GLY:N	8:p:1323:VAL:HG11	2.26	0.51
1:A:12:THR:HB	5:E:96:LEU:HA	1.91	0.51
1:A:351:GLU:C	1:A:353:SER:N	2.66	0.51
4:D:147:ARG:HG2	4:D:148:GLU:H	1.74	0.51
4:D:390:THR:O	4:D:394:LEU:HD23	2.10	0.51
5:E:341:PRO:O	5:E:343:VAL:HG23	2.11	0.51
6:F:92:THR:OG1	9:F:601:ADP:O3B	2.28	0.51
6:F:143:LEU:HD13	6:F:145:ASN:OD1	2.10	0.51
7:G:242:LEU:HB2	7:G:293:VAL:HG12	1.92	0.51
8:H:452:PHE:CE1	8:H:456:PHE:HE2	2.28	0.51
2:J:93:THR:HG21	9:J:601:ADP:O3B	2.10	0.51
2:J:319:LEU:HD11	2:J:355:LYS:O	2.10	0.51
5:M:166:ASP:N	5:M:167:ASP:CB	2.66	0.51
5:M:197:HIS:O	5:M:200:PHE:N	2.44	0.51
6:N:143:LEU:HD13	6:N:145:ASN:CG	2.36	0.51
6:N:424:ARG:HD3	6:N:483:SER:OG	2.11	0.51
6:N:515:ASN:HD22	6:N:515:ASN:C	2.18	0.51
7:O:291:ASN:C	7:O:312:ILE:HG13	2.34	0.51
8:P:31:SER:O	8:P:35:ILE:HG12	2.11	0.51
2:b:1046:LEU:HD11	2:b:1063:ILE:HA	1.93	0.51
2:b:1407:ALA:O	2:b:1411:MET:HG2	2.10	0.51
3:c:1049:LEU:HD21	3:c:1055:LEU:HD23	1.92	0.51
4:d:1241:ILE:HD13	4:d:1292:ILE:HG23	1.91	0.51
5:e:1197:HIS:O	5:e:1200:PHE:N	2.44	0.51
6:f:1129:SER:O	6:f:1422:LEU:HD23	2.10	0.51
6:f:1356:GLN:CB	6:f:1365:THR:HG22	2.40	0.51
7:g:1036:VAL:HG22	7:g:1083:LEU:HD13	1.93	0.51
3:k:1104:LEU:CD1	3:k:1520:LEU:HD12	2.39	0.51
3:k:1153:LYS:HD3	3:k:1500:TRP:CD1	2.46	0.51
3:k:1413:SER:HB3	3:k:1419:THR:HG21	1.91	0.51
6:n:1137:LYS:O	6:n:1138:ILE:HB	2.10	0.51
6:n:1276:LYS:O	6:n:1279:ASP:N	2.43	0.51
7:o:1066:GLY:HA2	7:o:1069:ILE:HG22	1.91	0.51
2:B:58:ASN:C	2:B:58:ASN:ND2	2.69	0.51
2:B:402:LEU:CD1	2:B:483:ARG:HE	2.24	0.51
2:B:408:GLU:CD	2:B:440:LEU:HD23	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:153:LYS:HD3	3:C:500:TRP:CD1	2.46	0.51
4:D:298:ASN:CB	4:D:299:ASP:HA	2.37	0.51
6:F:114:HIS:HA	5:M:37:ASN:HB2	1.92	0.51
6:F:231:ALA:O	6:F:351:SER:OG	2.22	0.51
6:F:354:VAL:HA	6:F:367:VAL:HA	1.93	0.51
7:G:225:SER:O	7:G:226:TYR:HB3	2.10	0.51
1:I:350:PHE:CD2	1:I:351:GLU:N	2.72	0.51
2:J:46:LEU:HD11	2:J:63:ILE:HA	1.93	0.51
3:K:104:LEU:CD1	3:K:520:LEU:HD12	2.39	0.51
3:K:320:VAL:O	3:K:321:LYS:O	2.28	0.51
5:M:509:ASN:O	5:M:521:ASP:HA	2.09	0.51
6:N:56:THR:OG1	6:N:61:VAL:HG11	2.10	0.51
6:N:143:LEU:HD13	6:N:145:ASN:CB	2.40	0.51
6:N:209:PHE:HB2	6:N:378:ILE:CB	2.40	0.51
8:P:15:LYS:HE3	8:P:16:GLN:N	2.26	0.51
8:P:163:ILE:CG2	8:P:179:SER:HB2	2.40	0.51
8:P:243:LYS:HB3	8:P:244:LYS:CE	2.41	0.51
3:c:1465:ILE:HD12	3:c:1465:ILE:N	2.26	0.51
5:e:1171:SER:HA	5:e:1438:ARG:HA	1.93	0.51
5:e:1431:ARG:O	5:e:1434:VAL:HG12	2.10	0.51
6:f:1424:ARG:HD3	6:f:1483:SER:OG	2.10	0.51
1:i:1540:ARG:O	5:m:1070:LEU:HB3	2.10	0.51
3:k:1038:CYS:HA	3:k:1044:MET:H	1.74	0.51
3:k:1491:ILE:HD13	3:k:1491:ILE:H	1.75	0.51
4:l:1030:SER:O	4:l:1033:ASP:HB2	2.11	0.51
4:l:1085:GLN:NE2	4:l:1507:ALA:HB2	2.25	0.51
6:n:1167:THR:HG22	6:n:1168:GLU:HB3	1.93	0.51
6:n:1246:GLU:CD	6:n:1246:GLU:H	2.18	0.51
6:n:1367:VAL:HG12	6:n:1369:GLU:O	2.10	0.51
1:A:226:CYS:SG	1:A:318:VAL:HG12	2.50	0.51
1:A:351:GLU:C	1:A:353:SER:H	2.17	0.51
2:B:442:THR:HG23	2:B:452:SER:CB	2.34	0.51
4:D:449:VAL:O	4:D:453:THR:HG23	2.10	0.51
5:E:55:ARG:NH2	5:E:134:LEU:HD13	2.26	0.51
5:E:227:GLN:O	5:E:407:PHE:HA	2.09	0.51
6:F:143:LEU:HD13	6:F:145:ASN:CG	2.36	0.51
7:G:292:ILE:HA	7:G:313:PHE:O	2.10	0.51
3:K:38:CYS:HA	3:K:44:MET:H	1.75	0.51
6:N:151:LEU:CD2	6:N:175:THR:HG23	2.41	0.51
6:N:167:THR:HG22	6:N:168:GLU:HB3	1.93	0.51
7:O:156:GLU:OE1	7:O:157:LEU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:459:PHE:HB3	7:O:460:ASP:HB3	1.93	0.51
8:P:250:PHE:CE2	8:P:299:ILE:HD12	2.45	0.51
3:c:1038:CYS:HA	3:c:1044:MET:H	1.75	0.51
4:d:1020:VAL:HG13	4:d:1524:ILE:HD12	1.92	0.51
6:f:1342:ASP:O	6:f:1345:PRO:HD3	2.10	0.51
6:f:1484:ASP:OD1	6:f:1484:ASP:N	2.44	0.51
9:g:1601:ADP:H8	9:g:1601:ADP:O3'	1.94	0.51
2:j:1046:LEU:HD11	2:j:1063:ILE:HA	1.93	0.51
2:j:1058:ASN:ND2	2:j:1058:ASN:C	2.69	0.51
2:j:1407:ALA:O	2:j:1411:MET:HG2	2.10	0.51
4:l:1094:THR:O	4:l:1098:ILE:HG12	2.10	0.51
4:l:1221:LYS:HE2	4:l:1225:GLY:CA	2.41	0.51
5:m:1171:SER:HA	5:m:1438:ARG:HA	1.93	0.51
6:n:1143:LEU:HD13	6:n:1145:ASN:OD1	2.10	0.51
6:n:1354:VAL:HA	6:n:1367:VAL:HA	1.93	0.51
6:n:1356:GLN:CB	6:n:1365:THR:HG22	2.40	0.51
6:n:1437:LYS:HE2	6:n:1437:LYS:CA	2.33	0.51
8:p:1169:SER:HB2	9:p:1601:ADP:O1A	2.10	0.51
8:p:1243:LYS:HB3	8:p:1244:LYS:CE	2.41	0.51
2:B:375:GLN:HE22	6:F:75:LEU:HB2	1.75	0.51
3:C:60:ASP:OD1	3:C:93:THR:HG21	2.10	0.51
3:C:109:PRO:O	3:C:113:GLU:HG2	2.11	0.51
3:C:335:THR:CB	8:H:237:LYS:HE2	2.30	0.51
4:D:221:LYS:HE2	4:D:225:GLY:CA	2.41	0.51
6:F:167:THR:HG22	6:F:168:GLU:HB3	1.93	0.51
6:F:436:ALA:HA	6:F:437:LYS:HE2	1.92	0.51
1:I:147:SER:OG	1:I:418:VAL:HB	2.10	0.51
3:K:491:ILE:HD13	3:K:491:ILE:H	1.75	0.51
6:N:39:PRO:HA	6:N:160:THR:CB	2.41	0.51
6:N:143:LEU:HD13	6:N:145:ASN:OD1	2.10	0.51
6:N:230:ASN:H	6:N:353:LEU:HD23	1.76	0.51
6:N:354:VAL:HA	6:N:367:VAL:HA	1.93	0.51
6:N:437:LYS:HE2	6:N:437:LYS:CA	2.33	0.51
6:N:515:ASN:ND2	6:N:516:ALA:N	2.58	0.51
1:a:1221:GLY:HA3	1:a:1374:ILE:O	2.11	0.51
1:a:1540:ARG:HA	5:e:1070:LEU:HD22	1.91	0.51
5:e:1055:ARG:NH2	5:e:1134:LEU:HD13	2.26	0.51
6:f:1143:LEU:HD13	6:f:1145:ASN:CG	2.36	0.51
6:f:1436:ALA:HA	6:f:1437:LYS:HE2	1.92	0.51
6:f:1488:TYR:O	6:f:1489:VAL:HG12	2.10	0.51
1:i:1104:ILE:HG12	1:i:1458:ILE:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1164:LYS:O	2:j:1167:SER:N	2.40	0.51
2:j:1242:LYS:HE2	2:j:1247:GLY:N	2.26	0.51
2:j:1408:GLU:CD	2:j:1440:LEU:HD23	2.36	0.51
4:l:1041:PRO:HG2	9:l:1601:ADP:C5	2.46	0.51
6:n:1484:ASP:OD1	6:n:1484:ASP:N	2.44	0.51
6:n:1541:LEU:HB2	6:n:1542:LYS:CB	2.32	0.51
8:p:1031:SER:O	8:p:1035:ILE:HG12	2.11	0.51
2:B:319:LEU:HD23	2:B:319:LEU:C	2.35	0.51
5:E:483:LEU:HD11	9:E:601:ADP:H1'	1.92	0.51
6:F:367:VAL:HG12	6:F:369:GLU:O	2.10	0.51
8:H:304:GLY:N	8:H:323:VAL:HG11	2.26	0.51
1:I:104:ILE:HG12	1:I:458:ILE:HD11	1.93	0.51
1:I:221:GLY:HA3	1:I:374:ILE:O	2.11	0.51
1:I:351:GLU:C	1:I:353:SER:H	2.17	0.51
2:J:422:ILE:HG22	2:J:424:GLY:H	1.75	0.51
3:K:109:PRO:O	3:K:113:GLU:HG2	2.11	0.51
3:K:153:LYS:HD3	3:K:500:TRP:CD1	2.46	0.51
6:N:16:ASP:CA	6:N:19:LEU:HD12	2.28	0.51
6:N:129:SER:O	6:N:422:LEU:HD23	2.10	0.51
8:P:29:ILE:O	8:P:32:ILE:HG22	2.11	0.51
1:a:1012:THR:HB	5:e:1096:LEU:HA	1.93	0.51
1:a:1273:ILE:HG21	5:e:1295:TYR:CE2	2.45	0.51
3:c:1117:HIS:HE1	8:h:1050:GLY:O	1.94	0.51
3:c:1475:HIS:O	3:c:1478:GLY:O	2.28	0.51
4:d:1030:SER:O	4:d:1033:ASP:HB2	2.11	0.51
6:f:1036:ASN:HA	6:f:1057:LYS:CD	2.38	0.51
6:f:1151:LEU:CD2	6:f:1175:THR:HG23	2.41	0.51
7:g:1304:THR:HA	7:g:1307:PHE:CE2	2.46	0.51
2:j:1271:ASN:ND2	2:j:1328:THR:OG1	2.44	0.51
4:l:1077:MET:CE	7:o:1384:GLN:HB2	2.40	0.51
7:o:1062:ILE:O	7:o:1063:SER:HB3	2.11	0.51
7:o:1115:PHE:CD1	7:o:1437:MET:HB3	2.46	0.51
8:p:1029:ILE:O	8:p:1032:ILE:HG22	2.11	0.51
1:A:159:ILE:HD12	1:A:412:THR:HG21	1.93	0.51
1:A:351:GLU:O	1:A:353:SER:N	2.44	0.51
3:C:269:TRP:HZ3	6:F:247:VAL:HB	1.76	0.51
5:E:93:GLN:NE2	5:E:93:GLN:HA	2.23	0.51
5:E:450:MET:HE3	5:E:454:VAL:HG23	1.93	0.51
6:F:151:LEU:CD2	6:F:175:THR:HG23	2.41	0.51
6:F:230:ASN:H	6:F:353:LEU:HD23	1.76	0.51
1:I:164:MET:HE3	1:I:169:ILE:HB	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:390:THR:O	4:L:394:LEU:HD23	2.10	0.51
4:L:450:ILE:HB	4:L:451:PRO:HD3	1.93	0.51
5:M:90:ILE:O	5:M:94:MET:HG2	2.11	0.51
5:M:513:ASP:OD2	5:M:525:LEU:HD13	2.11	0.51
7:O:62:ILE:O	7:O:63:SER:HB3	2.11	0.51
7:O:292:ILE:HA	7:O:313:PHE:O	2.10	0.51
8:P:457:GLU:C	8:P:460:PRO:HD2	2.36	0.51
1:a:1159:ILE:HD12	1:a:1412:THR:HG21	1.93	0.51
1:a:1226:CYS:SG	1:a:1318:VAL:HG12	2.50	0.51
4:d:1418:GLU:HG3	4:d:1447:LEU:O	2.11	0.51
6:f:1039:PRO:HA	6:f:1160:THR:CB	2.40	0.51
6:f:1137:LYS:O	6:f:1138:ILE:HB	2.10	0.51
6:f:1209:PHE:HB2	6:f:1378:ILE:CB	2.40	0.51
6:f:1437:LYS:HE2	6:f:1437:LYS:CA	2.33	0.51
7:g:1062:ILE:O	7:g:1063:SER:HB3	2.11	0.51
8:h:1015:LYS:HE3	8:h:1016:GLN:N	2.26	0.51
8:h:1131:TYR:HD2	8:h:1452:PHE:CD2	2.24	0.51
2:j:1043:ASP:OD1	6:n:1529:LEU:HD22	2.11	0.51
2:j:1049:ALA:HB1	6:n:1538:ARG:HB2	1.93	0.51
3:k:1165:ILE:HA	3:k:1168:SER:HB3	1.91	0.51
3:k:1242:ARG:CB	3:k:1292:PRO:HA	2.42	0.51
6:n:1143:LEU:HD13	6:n:1145:ASN:CG	2.36	0.51
8:p:1015:LYS:HE3	8:p:1016:GLN:N	2.26	0.51
8:p:1452:PHE:CE1	8:p:1456:PHE:HE2	2.28	0.51
2:B:46:LEU:HD11	2:B:63:ILE:HA	1.93	0.50
3:C:242:ARG:CB	3:C:292:PRO:HA	2.42	0.50
6:F:56:THR:OG1	6:F:61:VAL:HG11	2.10	0.50
6:F:90:GLY:O	6:F:94:VAL:CG2	2.34	0.50
6:F:424:ARG:HD3	6:F:483:SER:OG	2.11	0.50
6:F:433:LYS:O	6:F:436:ALA:O	2.30	0.50
8:H:457:GLU:C	8:H:460:PRO:HD2	2.36	0.50
2:J:46:LEU:HD11	2:J:63:ILE:HD12	1.93	0.50
2:J:242:LYS:HE3	2:J:247:GLY:N	2.25	0.50
2:J:271:ASN:ND2	2:J:328:THR:OG1	2.44	0.50
2:J:408:GLU:CD	2:J:440:LEU:HD23	2.36	0.50
4:L:135:LEU:HD11	4:L:411:ILE:HD11	1.92	0.50
4:L:198:LYS:HD3	4:L:198:LYS:H	1.74	0.50
4:L:229:LYS:CB	4:L:232:ALA:HB2	2.42	0.50
6:N:433:LYS:O	6:N:436:ALA:O	2.30	0.50
6:N:484:ASP:N	6:N:484:ASP:OD1	2.44	0.50
7:O:66:GLY:HA2	7:O:69:ILE:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:115:PHE:CD1	7:O:437:MET:HB3	2.46	0.50
8:P:452:PHE:CE1	8:P:456:PHE:HE2	2.28	0.50
2:b:1088:VAL:HG13	2:b:1393:GLN:NE2	2.21	0.50
2:b:1490:SER:HB2	2:b:1492:LYS:NZ	2.26	0.50
3:c:1109:PRO:O	3:c:1113:GLU:HG2	2.11	0.50
4:d:1178:VAL:CG1	4:d:1401:ILE:HD11	2.40	0.50
5:e:1513:ASP:OD2	5:e:1525:LEU:HD13	2.11	0.50
6:f:1433:LYS:O	6:f:1436:ALA:O	2.29	0.50
6:f:1515:ASN:ND2	6:f:1516:ALA:N	2.58	0.50
8:h:1049:CYS:O	8:h:1466:THR:CB	2.57	0.50
8:h:1226:MET:HA	8:h:1383:THR:OG1	2.11	0.50
1:i:1226:CYS:SG	1:i:1318:VAL:HG12	2.50	0.50
2:j:1046:LEU:HD11	2:j:1063:ILE:HD12	1.93	0.50
4:l:1009:ALA:HB1	7:o:1076:VAL:H	1.74	0.50
4:l:1020:VAL:HG13	4:l:1524:ILE:HD12	1.92	0.50
4:l:1239:PHE:C	4:l:1290:LYS:HG3	2.36	0.50
6:n:1039:PRO:HA	6:n:1160:THR:CB	2.40	0.50
6:n:1488:TYR:O	6:n:1489:VAL:HB	2.10	0.50
7:o:1346:LEU:H	7:o:1346:LEU:HD23	1.76	0.50
4:D:20:VAL:HG13	4:D:524:ILE:HD12	1.92	0.50
4:D:30:SER:O	4:D:33:ASP:HB2	2.11	0.50
4:D:469:LEU:C	4:D:471:SER:H	2.19	0.50
5:E:513:ASP:OD2	5:E:525:LEU:HD13	2.11	0.50
6:F:484:ASP:N	6:F:484:ASP:OD1	2.44	0.50
8:H:226:MET:HA	8:H:383:THR:OG1	2.11	0.50
1:I:351:GLU:O	1:I:353:SER:N	2.44	0.50
2:J:3:VAL:HB	2:J:4:GLN:OE1	2.12	0.50
3:K:242:ARG:CB	3:K:292:PRO:HA	2.42	0.50
5:M:341:PRO:O	5:M:343:VAL:HG23	2.11	0.50
6:N:137:LYS:O	6:N:138:ILE:HB	2.10	0.50
6:N:353:LEU:O	6:N:367:VAL:HG12	2.09	0.50
1:a:1161:LYS:HA	1:a:1164:MET:HG2	1.93	0.50
2:b:1408:GLU:CD	2:b:1440:LEU:HD23	2.36	0.50
3:c:1184:LYS:HA	3:c:1198:ILE:C	2.35	0.50
5:e:1090:ILE:O	5:e:1094:MET:HG2	2.11	0.50
5:e:1273:THR:O	5:e:1274:CYS:CB	2.59	0.50
6:f:1167:THR:HG22	6:f:1168:GLU:HB3	1.93	0.50
6:f:1436:ALA:HA	6:f:1437:LYS:CE	2.42	0.50
7:g:1115:PHE:CD1	7:g:1437:MET:HB3	2.46	0.50
7:g:1225:SER:O	7:g:1226:TYR:HB3	2.10	0.50
1:i:1379:LYS:N	1:i:1379:LYS:HD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1042:MET:HE3	6:n:1529:LEU:O	2.12	0.50
2:j:1442:THR:HG23	2:j:1452:SER:CB	2.34	0.50
3:k:1465:ILE:HD12	3:k:1465:ILE:N	2.26	0.50
4:l:1469:LEU:C	4:l:1471:SER:H	2.19	0.50
6:n:1353:LEU:HB2	6:n:1368:THR:HG1	1.76	0.50
6:n:1433:LYS:O	6:n:1436:ALA:O	2.30	0.50
6:n:1489:VAL:O	6:n:1489:VAL:HG13	2.11	0.50
7:o:1156:GLU:OE1	7:o:1157:LEU:HB2	2.10	0.50
7:o:1292:ILE:HA	7:o:1313:PHE:O	2.10	0.50
2:B:34:LYS:O	2:B:37:LEU:HG	2.12	0.50
2:B:490:SER:HB2	2:B:492:LYS:NZ	2.26	0.50
4:D:38:SER:HB3	4:D:46:LYS:HZ2	1.76	0.50
4:D:115:ILE:HG21	4:D:439:ILE:HG13	1.94	0.50
6:F:246:GLU:CD	6:F:246:GLU:H	2.18	0.50
4:L:418:GLU:HG3	4:L:447:LEU:O	2.11	0.50
5:M:88:ALA:CB	5:M:119:THR:HB	2.29	0.50
5:M:556:ILE:HG23	6:N:47:VAL:HB	1.93	0.50
6:N:105:ALA:C	6:N:107:ARG:N	2.67	0.50
6:N:440:THR:O	6:N:444:ILE:HG12	2.12	0.50
7:O:346:LEU:HD23	7:O:346:LEU:H	1.76	0.50
7:O:396:ALA:O	7:O:397:ILE:C	2.55	0.50
8:P:31:SER:CB	8:P:79:HIS:HE1	2.24	0.50
8:P:287:MET:O	8:P:291:ILE:HG12	2.12	0.50
1:a:1147:SER:HB3	1:a:1418:VAL:O	2.11	0.50
2:b:1245:ILE:O	2:b:1246:PHE:HD2	1.87	0.50
2:b:1271:ASN:ND2	2:b:1328:THR:OG1	2.44	0.50
4:d:1115:ILE:HG21	4:d:1439:ILE:HG13	1.94	0.50
4:d:1390:THR:O	4:d:1394:LEU:HD23	2.10	0.50
6:f:1246:GLU:CD	6:f:1246:GLU:H	2.18	0.50
6:f:1440:THR:O	6:f:1444:ILE:HG12	2.12	0.50
7:g:1057:ASN:O	7:g:1058:GLN:NE2	2.45	0.50
8:h:1243:LYS:HB3	8:h:1244:LYS:CE	2.41	0.50
1:i:1129:PHE:HB3	1:i:1532:LEU:HD21	1.93	0.50
1:i:1350:PHE:HE2	1:i:1354:TYR:CB	2.16	0.50
1:i:1351:GLU:O	1:i:1353:SER:N	2.44	0.50
2:j:1159:THR:HG21	2:j:1488:VAL:N	2.25	0.50
2:j:1195:ILE:HG21	2:j:1381:GLU:HB2	1.93	0.50
2:j:1319:LEU:HD11	2:j:1355:LYS:O	2.10	0.50
4:l:1521:ILE:CB	7:o:1050:ASP:O	2.59	0.50
5:m:1273:THR:O	5:m:1274:CYS:CB	2.59	0.50
5:m:1364:PRO:O	5:m:1365:ARG:CB	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1124:ILE:HB	6:n:1444:ILE:HD12	1.94	0.50
6:n:1436:ALA:HA	6:n:1437:LYS:CE	2.42	0.50
6:n:1501:PRO:O	6:n:1504:GLU:N	2.39	0.50
1:A:221:GLY:HA3	1:A:374:ILE:O	2.11	0.50
2:B:3:VAL:HB	2:B:4:GLN:OE1	2.12	0.50
2:B:367:ILE:HG23	2:B:367:ILE:O	2.11	0.50
5:E:273:THR:O	5:E:274:CYS:CB	2.59	0.50
6:F:105:ALA:C	6:F:107:ARG:N	2.67	0.50
6:F:541:LEU:HB3	6:F:543:GLU:N	2.26	0.50
8:H:49:CYS:O	8:H:466:THR:CB	2.57	0.50
1:I:379:LYS:HD2	1:I:379:LYS:N	2.26	0.50
2:J:58:ASN:C	2:J:58:ASN:ND2	2.69	0.50
3:K:465:ILE:N	3:K:465:ILE:HD12	2.26	0.50
3:K:475:HIS:O	3:K:478:GLY:O	2.28	0.50
4:L:198:LYS:HD3	4:L:198:LYS:N	2.27	0.50
5:M:131:ASP:O	5:M:134:LEU:HB3	2.12	0.50
5:M:364:PRO:O	5:M:365:ARG:CB	2.59	0.50
6:N:406:LEU:HB3	6:N:407:LYS:NZ	2.24	0.50
6:N:538:ARG:CG	6:N:538:ARG:NH1	2.72	0.50
7:O:171:ILE:O	7:O:171:ILE:HG22	2.12	0.50
1:a:1350:PHE:CD2	1:a:1351:GLU:N	2.72	0.50
2:b:1242:LYS:HE2	2:b:1247:GLY:N	2.26	0.50
4:d:1229:LYS:CB	4:d:1232:ALA:HB2	2.42	0.50
5:e:1364:PRO:O	5:e:1365:ARG:CB	2.59	0.50
6:f:1114:HIS:CD2	5:m:1037:ASN:HD22	2.29	0.50
6:f:1232:TYR:HA	6:f:1351:SER:OG	2.12	0.50
6:f:1409:LYS:HD3	6:f:1409:LYS:N	2.16	0.50
6:f:1489:VAL:O	6:f:1489:VAL:HG13	2.11	0.50
8:h:1301:ALA:O	8:h:1323:VAL:HA	2.11	0.50
1:i:1077:HIS:CG	1:i:1078:PRO:HD2	2.47	0.50
1:i:1159:ILE:HD12	1:i:1412:THR:HG21	1.93	0.50
2:j:1003:VAL:HB	2:j:1004:GLN:OE1	2.12	0.50
4:l:1198:LYS:HD3	4:l:1198:LYS:N	2.27	0.50
5:m:1431:ARG:O	5:m:1434:VAL:HG12	2.10	0.50
5:m:1535:LYS:O	5:m:1539:LEU:HG	2.11	0.50
7:o:1057:ASN:O	7:o:1058:GLN:NE2	2.45	0.50
8:p:1287:MET:O	8:p:1291:ILE:HG12	2.12	0.50
1:A:147:SER:HB3	1:A:418:VAL:O	2.11	0.50
1:A:161:LYS:HA	1:A:164:MET:HG2	1.93	0.50
1:A:205:VAL:C	1:A:206:LEU:HD23	2.36	0.50
1:A:379:LYS:HD2	1:A:379:LYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:475:HIS:O	3:C:478:GLY:O	2.28	0.50
4:D:239:PHE:C	4:D:290:LYS:HG3	2.36	0.50
4:D:450:ILE:HB	4:D:451:PRO:HD3	1.93	0.50
5:E:171:SER:HA	5:E:438:ARG:HA	1.93	0.50
5:E:210:ASN:HD22	5:E:210:ASN:N	2.08	0.50
5:E:364:PRO:O	5:E:365:ARG:CB	2.59	0.50
6:F:440:THR:O	6:F:444:ILE:HG12	2.12	0.50
1:I:147:SER:HB3	1:I:418:VAL:O	2.11	0.50
1:I:159:ILE:HD12	1:I:412:THR:HG21	1.93	0.50
4:L:239:PHE:C	4:L:290:LYS:HG3	2.36	0.50
5:M:55:ARG:NH2	5:M:134:LEU:HD13	2.26	0.50
6:N:124:ILE:HB	6:N:444:ILE:HD12	1.94	0.50
6:N:167:THR:HA	6:N:168:GLU:CB	2.40	0.50
6:N:489:VAL:O	6:N:489:VAL:HG13	2.11	0.50
1:a:1077:HIS:CG	1:a:1078:PRO:HD2	2.47	0.50
1:a:1205:VAL:C	1:a:1206:LEU:HD23	2.36	0.50
2:b:1106:ALA:HB1	2:b:1509:LEU:HD11	1.91	0.50
5:e:1341:PRO:O	5:e:1343:VAL:HG23	2.11	0.50
6:f:1406:LEU:O	6:f:1406:LEU:HD23	2.12	0.50
7:g:1455:GLU:CG	7:g:1461:ALA:HB3	2.42	0.50
1:i:1121:HIS:CE1	5:m:1068:ARG:HG3	2.46	0.50
2:j:1131:ALA:HB2	2:j:1415:VAL:CG2	2.42	0.50
4:l:1418:GLU:HG3	4:l:1447:LEU:O	2.11	0.50
6:n:1515:ASN:HD22	6:n:1515:ASN:C	2.18	0.50
8:p:1226:MET:HA	8:p:1383:THR:OG1	2.11	0.50
8:p:1250:PHE:CE2	8:p:1299:ILE:HD12	2.45	0.50
8:p:1457:GLU:C	8:p:1460:PRO:HD2	2.36	0.50
2:B:46:LEU:HD11	2:B:63:ILE:HD12	1.93	0.50
2:B:271:ASN:ND2	2:B:328:THR:OG1	2.44	0.50
3:C:250:LEU:N	3:C:250:LEU:HD23	2.26	0.50
3:C:465:ILE:N	3:C:465:ILE:HD12	2.26	0.50
6:F:108:PHE:C	6:F:108:PHE:CD1	2.90	0.50
6:F:209:PHE:HB2	6:F:378:ILE:CB	2.40	0.50
7:G:455:GLU:CG	7:G:461:ALA:HB3	2.42	0.50
7:G:459:PHE:HB3	7:G:460:ASP:HB3	1.93	0.50
1:I:129:PHE:HB3	1:I:532:LEU:HD21	1.93	0.50
1:I:205:VAL:C	1:I:206:LEU:HD23	2.36	0.50
2:J:422:ILE:O	2:J:423:ASP:OD2	2.30	0.50
2:J:464:TYR:HA	2:J:467:ILE:CD1	2.42	0.50
4:L:178:VAL:CG1	4:L:401:ILE:HD11	2.40	0.50
6:N:436:ALA:HA	6:N:437:LYS:CE	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1034:LYS:O	2:b:1037:LEU:HG	2.12	0.50
2:b:1131:ALA:HB2	2:b:1415:VAL:CG2	2.42	0.50
2:b:1164:LYS:O	2:b:1167:SER:N	2.40	0.50
2:b:1263:LYS:HZ1	3:c:1266:GLU:CB	2.24	0.50
4:d:1071:LEU:CA	8:p:1006:PRO:HG2	2.41	0.50
4:d:1221:LYS:HE2	4:d:1225:GLY:CA	2.41	0.50
4:d:1239:PHE:C	4:d:1290:LYS:HG3	2.36	0.50
5:e:1131:ASP:O	5:e:1134:LEU:HB3	2.12	0.50
6:f:1036:ASN:HB3	6:f:1057:LYS:HZ3	0.72	0.50
6:f:1354:VAL:HA	6:f:1367:VAL:HA	1.93	0.50
7:g:1346:LEU:HD23	7:g:1346:LEU:H	1.76	0.50
8:h:1007:GLN:CB	4:l:1071:LEU:O	2.59	0.50
8:h:1072:LEU:HA	8:h:1075:LEU:HB2	1.94	0.50
8:h:1457:GLU:C	8:h:1460:PRO:HD2	2.36	0.50
3:k:1109:PRO:O	3:k:1113:GLU:HG2	2.11	0.50
3:k:1119:VAL:HG21	8:p:1049:CYS:HA	1.94	0.50
3:k:1475:HIS:O	3:k:1478:GLY:O	2.28	0.50
4:l:1450:ILE:HB	4:l:1451:PRO:HD3	1.93	0.50
5:m:1513:ASP:OD2	5:m:1525:LEU:HD13	2.11	0.50
6:n:1193:MET:HB3	6:n:1330:LEU:HD12	1.94	0.50
6:n:1209:PHE:HB2	6:n:1378:ILE:CB	2.40	0.50
7:o:1143:LEU:HD22	7:o:1411:ALA:HB2	1.94	0.50
2:B:422:ILE:O	2:B:423:ASP:OD2	2.30	0.50
2:B:507:VAL:HG13	3:C:57:LEU:HD12	1.94	0.50
3:C:49:LEU:HD21	3:C:55:LEU:HD23	1.93	0.50
4:D:60:ASP:HB3	4:D:63:THR:OG1	2.12	0.50
5:E:90:ILE:O	5:E:94:MET:HG2	2.11	0.50
6:F:167:THR:HA	6:F:168:GLU:CB	2.40	0.50
6:F:387:ALA:O	6:F:391:THR:HG23	2.12	0.50
6:F:411:ILE:CG2	6:F:412:ILE:H	2.16	0.50
7:G:191:ARG:NH1	7:G:192:ASN:HB2	2.27	0.50
8:H:31:SER:CB	8:H:79:HIS:HE1	2.25	0.50
8:H:31:SER:O	8:H:35:ILE:HG12	2.11	0.50
8:H:79:HIS:ND1	8:H:81:ALA:HB3	2.27	0.50
1:I:344:LEU:CD1	1:I:345:GLU:H	2.23	0.50
5:M:93:GLN:NE2	5:M:93:GLN:HA	2.23	0.50
5:M:535:LYS:O	5:M:539:LEU:HG	2.11	0.50
6:N:193:MET:HB3	6:N:330:LEU:HD12	1.94	0.50
6:N:352:GLY:C	6:N:367:VAL:CG1	2.78	0.50
6:N:409:LYS:HD3	6:N:409:LYS:N	2.16	0.50
6:N:430:ASN:O	6:N:433:LYS:CA	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1351:GLU:O	1:a:1353:SER:N	2.44	0.50
4:d:1135:LEU:HD11	4:d:1411:ILE:HD11	1.92	0.50
6:f:1035:THR:HG21	6:f:1042:THR:O	2.08	0.50
6:f:1213:LEU:HD23	6:f:1377:THR:CG2	2.40	0.50
6:f:1387:ALA:O	6:f:1391:THR:HG23	2.12	0.50
7:g:1459:PHE:HB3	7:g:1460:ASP:HB3	1.93	0.50
8:h:1079:HIS:ND1	8:h:1081:ALA:HB3	2.27	0.50
1:i:1132:ALA:HB2	1:i:1448:ILE:HD13	1.94	0.50
2:j:1231:ILE:HD13	2:j:1282:ASN:HB2	1.92	0.50
3:k:1009:ASN:HB2	8:p:1078:VAL:HG13	1.92	0.50
5:m:1055:ARG:NH2	5:m:1134:LEU:HD13	2.26	0.50
5:m:1076:SER:HB2	5:m:1079:GLY:H	1.75	0.50
5:m:1090:ILE:O	5:m:1094:MET:HG2	2.11	0.50
5:m:1341:PRO:O	5:m:1343:VAL:HG23	2.11	0.50
6:n:1440:THR:O	6:n:1444:ILE:HG12	2.12	0.50
7:o:1023:LYS:HA	7:o:1026:ILE:HG22	1.93	0.50
8:p:1083:LYS:O	8:p:1087:MET:HG2	2.12	0.50
1:A:104:ILE:HG12	1:A:458:ILE:HD11	1.93	0.50
2:B:131:ALA:HB2	2:B:415:VAL:CG2	2.42	0.50
2:B:231:ILE:HD13	2:B:282:ASN:HB2	1.92	0.50
2:B:423:ASP:O	2:B:423:ASP:OD1	2.30	0.50
6:F:436:ALA:HA	6:F:437:LYS:CE	2.42	0.50
6:F:489:VAL:O	6:F:489:VAL:HG13	2.11	0.50
7:G:75:VAL:O	7:G:81:LYS:HE3	2.12	0.50
7:G:115:PHE:CD1	7:G:437:MET:HB3	2.46	0.50
7:G:193:ASP:O	7:G:193:ASP:OD1	2.30	0.50
8:H:29:ILE:O	8:H:32:ILE:HG22	2.11	0.50
8:H:259:THR:HG21	8:H:263:GLY:HA3	1.94	0.50
8:H:482:HIS:C	8:H:484:VAL:H	2.18	0.50
2:J:4:GLN:C	2:J:5:ILE:CG2	2.73	0.50
2:J:490:SER:HB2	2:J:492:LYS:NZ	2.26	0.50
4:L:30:SER:HA	4:L:33:ASP:CG	2.37	0.50
4:L:30:SER:O	4:L:33:ASP:HB2	2.11	0.50
4:L:115:ILE:HG21	4:L:439:ILE:HG13	1.94	0.50
6:N:387:ALA:O	6:N:391:THR:HG23	2.12	0.50
7:O:23:LYS:HA	7:O:26:ILE:HG22	1.93	0.50
7:O:193:ASP:O	7:O:193:ASP:OD1	2.30	0.50
1:a:1129:PHE:HB3	1:a:1532:LEU:HD21	1.93	0.50
2:b:1242:LYS:HD3	3:c:1269:TRP:CE2	2.47	0.50
3:c:1242:ARG:CB	3:c:1292:PRO:HA	2.42	0.50
4:d:1450:ILE:HB	4:d:1451:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1005:LEU:O	8:h:1006:PRO:O	2.30	0.50
8:h:1029:ILE:O	8:h:1032:ILE:HG22	2.11	0.50
2:j:1326:VAL:HG11	3:k:1304:LEU:HD13	1.94	0.50
2:j:1409:MET:HA	2:j:1409:MET:CE	2.38	0.50
4:l:1041:PRO:HG2	9:l:1601:ADP:C4	2.47	0.50
7:o:1193:ASP:O	7:o:1193:ASP:OD1	2.30	0.50
8:p:1031:SER:CB	8:p:1079:HIS:HE1	2.25	0.50
8:p:1049:CYS:O	8:p:1466:THR:CB	2.57	0.50
2:B:236:THR:HA	2:B:287:ARG:HD2	1.94	0.50
2:B:464:TYR:HA	2:B:467:ILE:CD1	2.42	0.50
4:D:229:LYS:CB	4:D:232:ALA:HB2	2.42	0.50
4:D:418:GLU:HG3	4:D:447:LEU:O	2.11	0.50
7:G:23:LYS:HA	7:G:26:ILE:HG22	1.93	0.50
7:G:483:PHE:CB	9:G:601:ADP:N6	2.74	0.50
8:H:15:LYS:HE3	8:H:16:GLN:N	2.26	0.50
1:I:92:ARG:HB3	5:M:388:THR:HA	1.93	0.50
2:J:235:ASN:ND2	3:K:304:LEU:HD21	2.27	0.50
3:K:29:LYS:O	3:K:33:ASP:HB2	2.12	0.50
4:L:195:ARG:O	4:L:376:SER:HA	2.12	0.50
5:M:264:SER:O	5:M:266:GLY:O	2.30	0.50
5:M:509:ASN:HB3	5:M:521:ASP:CB	2.36	0.50
6:N:108:PHE:C	6:N:108:PHE:CD1	2.90	0.50
6:N:232:TYR:HA	6:N:351:SER:OG	2.12	0.50
7:O:57:ASN:O	7:O:58:GLN:NE2	2.45	0.50
8:P:83:LYS:O	8:P:87:MET:HG2	2.12	0.50
8:P:226:MET:HE2	8:P:228:PHE:CZ	2.47	0.50
2:b:1502:SER:HA	2:b:1505:ALA:HB3	1.94	0.50
4:d:1060:ASP:HB3	4:d:1063:THR:OG1	2.12	0.50
5:e:1088:ALA:HB1	5:e:1109:LYS:HZ2	1.76	0.50
6:f:1224:MET:HE1	6:f:1316:ALA:N	2.16	0.50
7:g:1236:PHE:O	7:g:1351:LEU:HA	2.12	0.50
2:j:1464:TYR:HA	2:j:1467:ILE:CD1	2.42	0.50
3:k:1029:LYS:O	3:k:1033:ASP:HB2	2.12	0.50
4:l:1195:ARG:O	4:l:1376:SER:HA	2.12	0.50
6:n:1411:ILE:CG2	6:n:1412:ILE:N	2.75	0.50
7:o:1043:THR:HB	7:o:1099:THR:CG2	2.39	0.50
7:o:1191:ARG:NH1	7:o:1192:ASN:HB2	2.27	0.50
7:o:1236:PHE:O	7:o:1351:LEU:HA	2.12	0.50
8:p:1259:THR:HG21	8:p:1263:GLY:HA3	1.94	0.50
2:B:164:LYS:O	2:B:167:SER:N	2.40	0.49
4:D:198:LYS:HD3	4:D:198:LYS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:406:LEU:O	6:F:406:LEU:HD23	2.12	0.49
1:I:77:HIS:CG	1:I:78:PRO:HD2	2.47	0.49
2:J:34:LYS:O	2:J:37:LEU:HG	2.12	0.49
2:J:195:ILE:HG21	2:J:381:GLU:HB2	1.93	0.49
2:J:242:LYS:HE2	2:J:247:GLY:N	2.26	0.49
4:L:221:LYS:HE2	4:L:225:GLY:CA	2.41	0.49
4:L:524:ILE:HA	7:O:52:LEU:C	2.31	0.49
5:M:132:GLN:HE21	5:M:132:GLN:HA	1.77	0.49
7:O:36:VAL:HG22	7:O:83:LEU:HD13	1.93	0.49
7:O:75:VAL:O	7:O:81:LYS:HE3	2.12	0.49
7:O:214:PHE:CD1	7:O:376:LEU:HB3	2.46	0.49
8:P:226:MET:HA	8:P:383:THR:OG1	2.11	0.49
2:b:1203:LEU:O	2:b:1204:SER:OG	2.30	0.49
2:b:1402:LEU:CD1	2:b:1483:ARG:HE	2.24	0.49
2:b:1422:ILE:O	2:b:1423:ASP:OD2	2.30	0.49
6:f:1124:ILE:HB	6:f:1444:ILE:HD12	1.94	0.49
6:f:1411:ILE:CG2	6:f:1412:ILE:N	2.75	0.49
6:f:1541:LEU:HB3	6:f:1543:GLU:N	2.26	0.49
8:h:1259:THR:HG21	8:h:1263:GLY:HA3	1.94	0.49
1:i:1205:VAL:C	1:i:1206:LEU:HD23	2.36	0.49
4:l:1524:ILE:HG23	7:o:1052:LEU:HD22	1.93	0.49
6:n:1108:PHE:CD1	6:n:1108:PHE:C	2.90	0.49
7:o:1075:VAL:O	7:o:1081:LYS:HE3	2.12	0.49
1:A:129:PHE:HB3	1:A:532:LEU:HD21	1.93	0.49
2:B:4:GLN:O	3:C:72:HIS:CB	2.60	0.49
2:B:60:GLY:H	2:B:93:THR:CG2	2.25	0.49
3:C:29:LYS:O	3:C:33:ASP:HB2	2.12	0.49
5:E:509:ASN:HB3	5:E:521:ASP:CB	2.36	0.49
6:F:23:VAL:HG22	6:F:102:LEU:CD1	2.42	0.49
7:G:346:LEU:HD23	7:G:346:LEU:H	1.76	0.49
8:H:83:LYS:O	8:H:87:MET:HG2	2.12	0.49
4:L:469:LEU:C	4:L:471:SER:H	2.19	0.49
5:M:325:TRP:CG	5:M:326:GLY:N	2.80	0.49
6:N:215:LEU:HB3	6:N:217:HIS:CD2	2.36	0.49
6:N:406:LEU:O	6:N:406:LEU:HD23	2.12	0.49
6:N:491:VAL:HG12	6:N:492:ASP:N	2.27	0.49
8:P:72:LEU:HA	8:P:75:LEU:HB2	1.94	0.49
8:P:259:THR:HG21	8:P:263:GLY:HA3	1.94	0.49
2:b:1030:GLY:CA	2:b:1033:VAL:CG2	2.86	0.49
2:b:1274:ALA:HB1	2:b:1329:PHE:HA	1.94	0.49
2:b:1427:SER:O	2:b:1430:VAL:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1226:PRO:CB	4:d:1311:MET:HG2	2.40	0.49
5:e:1264:SER:O	5:e:1266:GLY:O	2.30	0.49
6:f:1005:LEU:CA	6:f:1006:LEU:HB2	2.34	0.49
7:g:1023:LYS:HA	7:g:1026:ILE:HG22	1.93	0.49
8:h:1083:LYS:O	8:h:1087:MET:HG2	2.12	0.49
8:h:1237:LYS:HB3	8:h:1314:ASN:HB3	1.63	0.49
1:i:1161:LYS:HA	1:i:1164:MET:HG2	1.93	0.49
6:n:1387:ALA:O	6:n:1391:THR:HG23	2.12	0.49
7:o:1242:LEU:HB2	7:o:1293:VAL:HG12	1.92	0.49
8:p:1249:VAL:HG13	8:p:1300:VAL:O	2.12	0.49
8:p:1301:ALA:O	8:p:1323:VAL:HA	2.11	0.49
3:C:124:ALA:HB2	3:C:438:GLN:HE22	1.77	0.49
6:F:43:LEU:CD2	6:F:161:LYS:HA	2.40	0.49
6:F:193:MET:HB3	6:F:330:LEU:HD12	1.94	0.49
6:F:213:LEU:HD23	6:F:377:THR:CG2	2.40	0.49
7:G:236:PHE:O	7:G:351:LEU:HA	2.12	0.49
8:H:249:VAL:HG13	8:H:300:VAL:O	2.13	0.49
8:H:287:MET:O	8:H:291:ILE:HG12	2.12	0.49
2:J:42:MET:HB3	6:N:531:ASP:HB2	1.95	0.49
2:J:131:ALA:HB2	2:J:415:VAL:CG2	2.42	0.49
2:J:236:THR:HA	2:J:287:ARG:HD2	1.94	0.49
3:K:124:ALA:HB2	3:K:438:GLN:HE22	1.77	0.49
5:M:364:PRO:HG3	6:N:307:ASP:CB	2.41	0.49
6:N:154:ALA:O	6:N:157:SER:CB	2.60	0.49
8:P:301:ALA:O	8:P:323:VAL:HA	2.11	0.49
1:a:1379:LYS:N	1:a:1379:LYS:HD2	2.26	0.49
2:b:1046:LEU:HD11	2:b:1063:ILE:HD12	1.93	0.49
5:e:1132:GLN:HE21	5:e:1132:GLN:HA	1.77	0.49
5:e:1173:ASP:HB3	5:e:1437:SER:HB3	1.87	0.49
5:e:1450:MET:HE3	5:e:1454:VAL:HG23	1.93	0.49
6:f:1105:ALA:C	6:f:1107:ARG:N	2.67	0.49
7:g:1214:PHE:CD1	7:g:1376:LEU:HB3	2.46	0.49
8:h:1031:SER:CB	8:h:1079:HIS:HE1	2.25	0.49
8:h:1226:MET:HE2	8:h:1228:PHE:CZ	2.47	0.49
1:i:1433:LEU:O	1:i:1437:ALA:CB	2.61	0.49
2:j:1236:THR:HA	2:j:1287:ARG:HD2	1.94	0.49
2:j:1490:SER:HB2	2:j:1492:LYS:NZ	2.26	0.49
4:l:1030:SER:HA	4:l:1033:ASP:CG	2.37	0.49
5:m:1264:SER:O	5:m:1266:GLY:O	2.30	0.49
5:m:1554:VAL:HG22	6:n:1045:MET:CB	2.42	0.49
6:n:1071:PRO:HG2	6:n:1533:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1233:VAL:HG13	6:n:1351:SER:CB	2.43	0.49
6:n:1355:TYR:O	6:n:1366:TYR:O	2.31	0.49
6:n:1406:LEU:O	6:n:1406:LEU:HD23	2.12	0.49
6:n:1430:ASN:O	6:n:1433:LYS:CA	2.60	0.49
7:o:1036:VAL:HG22	7:o:1083:LEU:HD13	1.93	0.49
7:o:1171:ILE:O	7:o:1171:ILE:HG22	2.12	0.49
7:o:1455:GLU:CG	7:o:1461:ALA:HB3	2.42	0.49
1:A:8:SER:N	2:J:21:SER:OG	2.43	0.49
1:A:77:HIS:CG	1:A:78:PRO:HD2	2.47	0.49
2:B:160:THR:HG21	2:B:390:VAL:HG21	1.94	0.49
2:B:195:ILE:HG21	2:B:381:GLU:HB2	1.93	0.49
6:F:71:PRO:HG2	6:F:533:LEU:HD12	1.94	0.49
6:F:121:GLY:O	6:F:444:ILE:HD13	2.12	0.49
6:F:124:ILE:HB	6:F:444:ILE:HD12	1.94	0.49
6:F:275:LYS:O	6:F:276:LYS:C	2.52	0.49
6:F:342:ASP:CG	6:F:345:PRO:HG2	2.38	0.49
7:G:214:PHE:CD1	7:G:376:LEU:HB3	2.46	0.49
8:H:301:ALA:O	8:H:323:VAL:HA	2.11	0.49
1:I:161:LYS:HA	1:I:164:MET:HG2	1.93	0.49
2:J:170:LYS:HB2	2:J:170:LYS:NZ	2.28	0.49
3:K:16:THR:HA	3:K:525:ASP:HB3	1.95	0.49
5:M:273:THR:O	5:M:274:CYS:CB	2.59	0.49
7:O:304:THR:HA	7:O:307:PHE:CE2	2.46	0.49
7:O:470:LEU:O	7:O:473:SER:OG	2.29	0.49
8:P:249:VAL:HG13	8:P:300:VAL:O	2.12	0.49
2:b:1003:VAL:HB	2:b:1004:GLN:OE1	2.12	0.49
2:b:1285:ILE:HD13	2:b:1285:ILE:H	1.78	0.49
2:b:1423:ASP:OD1	2:b:1423:ASP:O	2.30	0.49
3:c:1103:ILE:HD12	3:c:1445:VAL:HG22	1.95	0.49
4:d:1198:LYS:HD3	4:d:1198:LYS:N	2.27	0.49
6:f:1121:GLY:O	6:f:1444:ILE:HD13	2.13	0.49
7:g:1193:ASP:O	7:g:1193:ASP:OD1	2.30	0.49
2:j:1170:LYS:HB2	2:j:1170:LYS:NZ	2.28	0.49
2:j:1402:LEU:CD1	2:j:1483:ARG:HE	2.24	0.49
3:k:1124:ALA:HB2	3:k:1438:GLN:HE22	1.78	0.49
5:m:1084:THR:CG2	5:m:1086:ASP:H	2.20	0.49
5:m:1132:GLN:HE21	5:m:1132:GLN:HA	1.77	0.49
5:m:1189:GLY:O	5:m:1190:SER:CB	2.61	0.49
6:n:1023:VAL:HG22	6:n:1102:LEU:CD1	2.42	0.49
6:n:1324:ASN:O	6:n:1328:LEU:N	2.33	0.49
8:p:1079:HIS:ND1	8:p:1081:ALA:HB3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1226:MET:HE2	8:p:1228:PHE:CZ	2.47	0.49
2:B:242:LYS:HE3	2:B:247:GLY:N	2.25	0.49
2:B:274:ALA:HB1	2:B:329:PHE:HA	1.94	0.49
3:C:103:ILE:HD12	3:C:445:VAL:HG22	1.95	0.49
5:E:84:THR:CG2	5:E:86:ASP:H	2.20	0.49
5:E:131:ASP:O	5:E:134:LEU:HB3	2.12	0.49
5:E:535:LYS:O	5:E:539:LEU:HG	2.11	0.49
6:F:280:LEU:HD23	6:F:280:LEU:N	2.27	0.49
6:F:446:ALA:HA	6:F:449:GLU:HG3	1.95	0.49
7:G:36:VAL:HG22	7:G:83:LEU:HD13	1.93	0.49
2:J:423:ASP:O	2:J:423:ASP:OD1	2.30	0.49
5:M:171:SER:HA	5:M:438:ARG:HA	1.93	0.49
6:N:446:ALA:HA	6:N:449:GLU:HG3	1.95	0.49
1:a:1123:THR:HG21	5:e:1068:ARG:NE	2.23	0.49
1:a:1132:ALA:HB2	1:a:1448:ILE:HD13	1.94	0.49
2:b:1042:MET:HE3	6:f:1529:LEU:O	2.12	0.49
2:b:1160:THR:HG21	2:b:1390:VAL:HG21	1.94	0.49
2:b:1170:LYS:HB2	2:b:1170:LYS:NZ	2.28	0.49
2:b:1183:ARG:O	2:b:1184:LEU:CB	2.60	0.49
2:b:1459:LEU:HD13	2:b:1472:LEU:CD2	2.43	0.49
2:b:1464:TYR:HA	2:b:1467:ILE:CD1	2.42	0.49
6:f:1430:ASN:O	6:f:1433:LYS:CA	2.60	0.49
1:i:1013:LEU:HD22	1:i:1014:PHE:H	1.78	0.49
2:j:1242:LYS:HE3	2:j:1247:GLY:N	2.25	0.49
3:k:1103:ILE:HD12	3:k:1445:VAL:HG22	1.95	0.49
4:l:1041:PRO:HG3	9:l:1601:ADP:C5	2.47	0.49
4:l:1135:LEU:CD1	4:l:1411:ILE:HD11	2.43	0.49
6:n:1280:LEU:HD23	6:n:1280:LEU:N	2.27	0.49
7:o:1317:ARG:O	7:o:1317:ARG:CD	2.61	0.49
7:o:1470:LEU:O	7:o:1473:SER:OG	2.30	0.49
1:A:433:LEU:O	1:A:437:ALA:CB	2.61	0.49
5:E:132:GLN:HE21	5:E:132:GLN:HA	1.77	0.49
6:F:154:ALA:O	6:F:157:SER:CB	2.60	0.49
6:F:430:ASN:O	6:F:433:LYS:CA	2.60	0.49
7:G:317:ARG:O	7:G:317:ARG:CD	2.61	0.49
8:H:250:PHE:CE2	8:H:299:ILE:HD12	2.45	0.49
1:I:433:LEU:O	1:I:437:ALA:CB	2.61	0.49
1:I:501:GLY:HA3	1:I:512:GLU:HG2	1.95	0.49
2:J:502:SER:HA	2:J:505:ALA:HB3	1.94	0.49
7:O:191:ARG:NH1	7:O:192:ASN:HB2	2.27	0.49
7:O:236:PHE:O	7:O:351:LEU:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:79:HIS:ND1	8:P:81:ALA:HB3	2.27	0.49
1:a:1433:LEU:O	1:a:1437:ALA:CB	2.61	0.49
3:c:1230:VAL:CG1	3:c:1302:SER:HG	2.15	0.49
5:e:1084:THR:CG2	5:e:1086:ASP:H	2.20	0.49
5:e:1210:ASN:HD22	5:e:1210:ASN:N	2.08	0.49
5:e:1240:ILE:HG12	5:e:1244:ILE:HG21	1.95	0.49
5:e:1535:LYS:O	5:e:1539:LEU:HG	2.11	0.49
6:f:1061:VAL:O	6:f:1065:GLU:HB2	2.13	0.49
6:f:1199:MET:O	6:f:1381:LYS:HE2	2.13	0.49
7:g:1029:ASN:OD1	7:g:1079:ALA:HB2	2.12	0.49
7:g:1191:ARG:NH1	7:g:1192:ASN:HB2	2.27	0.49
7:g:1317:ARG:O	7:g:1317:ARG:CD	2.61	0.49
8:h:1482:HIS:C	8:h:1484:VAL:H	2.18	0.49
2:j:1423:ASP:OD1	2:j:1423:ASP:O	2.30	0.49
3:k:1016:THR:HA	3:k:1525:ASP:HB3	1.95	0.49
4:l:1229:LYS:CB	4:l:1232:ALA:HB2	2.42	0.49
5:m:1450:MET:HE3	5:m:1454:VAL:HG23	1.93	0.49
6:n:1232:TYR:HA	6:n:1351:SER:OG	2.12	0.49
7:o:1214:PHE:CD1	7:o:1376:LEU:HB3	2.46	0.49
8:p:1079:HIS:CE1	8:p:1081:ALA:HB3	2.48	0.49
1:A:96:ASP:OD1	9:A:601:ADP:O1B	2.31	0.49
3:C:430:LYS:O	3:C:433:GLN:CG	2.57	0.49
5:E:264:SER:O	5:E:266:GLY:O	2.30	0.49
6:F:61:VAL:O	6:F:65:GLU:HB2	2.13	0.49
6:F:237:ASN:HA	6:F:297:ASN:OD1	2.13	0.49
7:G:452:GLN:CD	7:G:452:GLN:H	2.21	0.49
8:H:29:ILE:HG22	8:H:30:LYS:N	2.28	0.49
2:J:5:ILE:HD12	2:J:7:GLY:H	1.78	0.49
2:J:183:ARG:O	2:J:184:LEU:CB	2.60	0.49
6:N:23:VAL:HG22	6:N:102:LEU:CD1	2.42	0.49
8:P:463:LEU:HD11	9:P:601:ADP:C8	2.48	0.49
2:b:1060:GLY:H	2:b:1093:THR:CG2	2.25	0.49
2:b:1236:THR:HA	2:b:1287:ARG:HD2	1.94	0.49
4:d:1077:MET:HE1	7:g:1384:GLN:HB2	1.95	0.49
6:f:1237:ASN:HA	6:f:1297:ASN:OD1	2.13	0.49
6:f:1424:ARG:HG2	6:f:1483:SER:CA	2.34	0.49
6:f:1491:VAL:HG12	6:f:1492:ASP:N	2.27	0.49
7:g:1075:VAL:O	7:g:1081:LYS:HE3	2.12	0.49
7:g:1171:ILE:O	7:g:1171:ILE:HG22	2.12	0.49
8:h:1249:VAL:HG13	8:h:1300:VAL:O	2.13	0.49
1:i:1350:PHE:CD2	1:i:1351:GLU:N	2.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1060:GLY:H	2:j:1093:THR:CG2	2.25	0.49
2:j:1183:ARG:O	2:j:1184:LEU:CB	2.60	0.49
2:j:1233:ILE:O	2:j:1325:VAL:N	2.46	0.49
8:p:1029:ILE:HG22	8:p:1030:LYS:N	2.28	0.49
2:B:72:PRO:CG	3:C:47:MET:HE1	2.41	0.49
4:D:46:LYS:HG3	8:H:532:THR:CG2	2.40	0.49
5:E:148:ASN:HA	5:E:151:ASP:HB2	1.95	0.49
6:F:232:TYR:HA	6:F:351:SER:OG	2.12	0.49
7:G:516:LEU:HD22	7:G:517:ILE:CA	2.42	0.49
1:I:12:THR:CG2	5:M:97:ASP:H	2.18	0.49
2:J:242:LYS:HZ1	2:J:247:GLY:C	2.04	0.49
3:K:103:ILE:HD12	3:K:445:VAL:HG22	1.95	0.49
7:O:455:GLU:CG	7:O:461:ALA:HB3	2.42	0.49
8:P:79:HIS:CE1	8:P:81:ALA:HB3	2.48	0.49
2:b:1045:LEU:HD12	6:f:1533:LEU:HB3	1.94	0.49
5:e:1189:GLY:O	5:e:1190:SER:CB	2.61	0.49
6:f:1167:THR:CB	6:f:1169:VAL:N	2.64	0.49
6:f:1275:LYS:O	6:f:1276:LYS:C	2.52	0.49
9:g:1601:ADP:O1A	9:g:1601:ADP:H3'	2.13	0.49
8:h:1029:ILE:HG22	8:h:1030:LYS:N	2.28	0.49
8:h:1287:MET:O	8:h:1291:ILE:HG12	2.12	0.49
1:i:1090:GLN:HG3	1:i:1101:VAL:CG2	2.19	0.49
3:k:1457:ILE:HD13	3:k:1467:LEU:CD1	2.19	0.49
4:l:1298:ASN:HB3	4:l:1299:ASP:CA	2.43	0.49
5:m:1131:ASP:O	5:m:1134:LEU:HB3	2.12	0.49
5:m:1148:ASN:HA	5:m:1151:ASP:HB2	1.95	0.49
6:n:1275:LYS:O	6:n:1276:LYS:C	2.52	0.49
2:B:183:ARG:O	2:B:184:LEU:CB	2.60	0.49
2:B:464:TYR:HA	2:B:467:ILE:HD11	1.94	0.49
3:C:515:GLU:CD	8:H:389:ALA:HB3	2.38	0.49
4:D:30:SER:HA	4:D:33:ASP:CG	2.37	0.49
4:D:195:ARG:O	4:D:376:SER:HA	2.12	0.49
5:E:558:GLY:HA2	6:F:48:ASP:HB2	1.94	0.49
6:F:138:ILE:O	6:F:138:ILE:CG2	2.58	0.49
6:F:199:MET:O	6:F:381:LYS:HE2	2.13	0.49
7:G:43:THR:HG21	7:G:64:ASN:O	2.13	0.49
7:G:57:ASN:O	7:G:58:GLN:NE2	2.45	0.49
7:G:143:LEU:HD22	7:G:411:ALA:HB2	1.94	0.49
8:H:163:ILE:HG23	8:H:179:SER:CB	2.42	0.49
8:H:226:MET:HE2	8:H:228:PHE:CZ	2.47	0.49
8:H:356:GLU:HB2	8:H:374:GLU:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:13:LEU:HD22	1:I:14:PHE:H	1.78	0.49
2:J:160:THR:HG21	2:J:390:VAL:HG21	1.94	0.49
2:J:427:SER:O	2:J:430:VAL:HB	2.12	0.49
6:N:355:TYR:O	6:N:366:TYR:O	2.31	0.49
6:N:405:VAL:HG22	6:N:509:SER:HB2	1.94	0.49
7:O:29:ASN:OD1	7:O:79:ALA:HB2	2.12	0.49
7:O:317:ARG:O	7:O:317:ARG:CD	2.61	0.49
2:b:1464:TYR:HA	2:b:1467:ILE:HD11	1.94	0.49
3:c:1306:GLN:C	3:c:1310:LEU:HG	2.37	0.49
6:f:1023:VAL:HG22	6:f:1102:LEU:CD1	2.42	0.49
6:f:1108:PHE:CD1	6:f:1108:PHE:C	2.90	0.49
6:f:1154:ALA:O	6:f:1157:SER:CB	2.60	0.49
6:f:1160:THR:N	6:f:1164:ALA:CB	2.76	0.49
6:f:1193:MET:HB3	6:f:1330:LEU:HD12	1.94	0.49
6:f:1424:ARG:HA	6:f:1424:ARG:NE	2.12	0.49
2:j:1005:ILE:HD12	2:j:1007:GLY:H	1.78	0.49
2:j:1427:SER:O	2:j:1430:VAL:HB	2.12	0.49
3:k:1306:GLN:C	3:k:1310:LEU:HG	2.37	0.49
4:l:1060:ASP:HB3	4:l:1063:THR:OG1	2.12	0.49
6:n:1199:MET:O	6:n:1381:LYS:HE2	2.13	0.49
6:n:1541:LEU:HB3	6:n:1543:GLU:N	2.26	0.49
7:o:1029:ASN:OD1	7:o:1079:ALA:HB2	2.12	0.49
7:o:1452:GLN:CD	7:o:1452:GLN:H	2.21	0.49
8:p:1072:LEU:HA	8:p:1075:LEU:HB2	1.94	0.49
1:A:116:VAL:HG12	1:A:120:ILE:HG22	1.95	0.49
2:B:170:LYS:HB2	2:B:170:LYS:NZ	2.28	0.49
2:B:233:ILE:O	2:B:325:VAL:N	2.46	0.49
2:B:382:ARG:HG3	2:B:382:ARG:HH11	1.78	0.49
4:D:135:LEU:CD1	4:D:411:ILE:HD11	2.43	0.49
6:F:16:ASP:OD1	6:F:16:ASP:N	2.36	0.49
7:G:413:GLY:CA	7:G:491:ASN:HD21	2.22	0.49
1:I:132:ALA:HB2	1:I:448:ILE:HD13	1.94	0.49
2:J:459:LEU:HD13	2:J:472:LEU:CD2	2.43	0.49
3:K:430:LYS:O	3:K:433:GLN:CG	2.57	0.49
5:M:148:ASN:HA	5:M:151:ASP:HB2	1.95	0.49
5:M:450:MET:HE3	5:M:454:VAL:HG23	1.93	0.49
6:N:121:GLY:O	6:N:444:ILE:HD13	2.12	0.49
7:O:44:LEU:HB2	7:O:456:ASN:ND2	2.28	0.49
8:P:49:CYS:O	8:P:466:THR:CB	2.57	0.49
2:b:1057:THR:HG21	2:b:1382:ARG:NH1	2.28	0.49
2:b:1233:ILE:O	2:b:1325:VAL:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1382:ARG:HH11	2:b:1382:ARG:HG3	1.78	0.49
4:d:1195:ARG:O	4:d:1376:SER:HA	2.12	0.49
5:e:1148:ASN:HA	5:e:1151:ASP:HB2	1.95	0.49
6:f:1047:VAL:HG12	6:f:1048:ASP:N	2.28	0.49
6:f:1231:ALA:O	6:f:1351:SER:OG	2.22	0.49
6:f:1342:ASP:CG	6:f:1345:PRO:HG2	2.38	0.49
6:f:1353:LEU:H	6:f:1369:GLU:HB3	1.77	0.49
7:g:1143:LEU:HD22	7:g:1411:ALA:HB2	1.94	0.49
8:h:1163:ILE:CG2	8:h:1179:SER:HB2	2.40	0.49
8:h:1248:ALA:HB2	8:h:1352:LEU:HD13	1.95	0.49
8:h:1443:GLY:O	8:h:1446:GLN:HG3	2.13	0.49
1:i:1501:GLY:HA3	1:i:1512:GLU:HG2	1.95	0.49
2:j:1034:LYS:O	2:j:1037:LEU:HG	2.12	0.49
2:j:1382:ARG:HH11	2:j:1382:ARG:HG3	1.78	0.49
2:j:1422:ILE:O	2:j:1423:ASP:OD2	2.30	0.49
5:m:1240:ILE:HG12	5:m:1244:ILE:HG21	1.94	0.49
6:n:1154:ALA:O	6:n:1157:SER:CB	2.60	0.49
1:A:14:PHE:CB	1:A:15:LEU:HA	2.43	0.48
1:A:121:HIS:CE1	5:E:68:ARG:HG3	2.48	0.48
1:A:132:ALA:HB2	1:A:448:ILE:HD13	1.94	0.48
3:C:306:GLN:C	3:C:310:LEU:HG	2.37	0.48
4:D:254:VAL:CG2	4:D:254:VAL:O	2.61	0.48
5:E:535:LYS:HD2	5:E:535:LYS:C	2.38	0.48
6:F:224:MET:HE1	6:F:316:ALA:N	2.16	0.48
7:G:62:ILE:O	7:G:63:SER:HB3	2.11	0.48
7:G:396:ALA:O	7:G:397:ILE:C	2.55	0.48
1:I:164:MET:CE	1:I:169:ILE:HB	2.43	0.48
2:J:60:GLY:H	2:J:93:THR:CG2	2.25	0.48
2:J:263:LYS:NZ	3:K:266:GLU:CG	2.76	0.48
2:J:464:TYR:HA	2:J:467:ILE:HD11	1.94	0.48
2:J:514:ILE:HG22	2:J:515:ILE:H	1.78	0.48
3:K:41:PRO:CA	3:K:161:THR:HG21	2.43	0.48
4:L:135:LEU:CD1	4:L:411:ILE:HD11	2.43	0.48
4:L:204:ILE:O	4:L:207:THR:HG23	2.13	0.48
4:L:325:SER:O	4:L:329:GLY:N	2.46	0.48
8:P:334:ARG:HD3	8:P:380:ARG:HH11	1.78	0.48
1:a:1008:SER:N	2:j:1021:SER:OG	2.43	0.48
2:b:1348:LEU:HG	6:f:1086:ILE:CA	2.43	0.48
3:c:1029:LYS:O	3:c:1033:ASP:HB2	2.12	0.48
4:d:1469:LEU:C	4:d:1471:SER:H	2.20	0.48
5:e:1033:LYS:HE2	6:n:1117:ILE:CG1	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1037:ASN:HB2	6:n:1114:HIS:HA	1.95	0.48
8:h:1079:HIS:CE1	8:h:1081:ALA:HB3	2.48	0.48
1:i:1010:SER:O	1:i:1011:ASP:O	2.31	0.48
4:l:1523:ASP:C	7:o:1051:ILE:HG23	2.36	0.48
6:n:1061:VAL:O	6:n:1065:GLU:HB2	2.13	0.48
6:n:1342:ASP:CG	6:n:1345:PRO:HG2	2.38	0.48
1:A:10:SER:O	1:A:11:ASP:O	2.31	0.48
1:A:164:MET:CE	1:A:169:ILE:HB	2.43	0.48
2:B:5:ILE:HD12	2:B:7:GLY:H	1.78	0.48
2:B:72:PRO:HB2	3:C:47:MET:HE1	1.88	0.48
2:B:514:ILE:HG22	2:B:515:ILE:H	1.78	0.48
3:C:16:THR:HA	3:C:525:ASP:HB3	1.95	0.48
3:C:414:PRO:O	3:C:419:THR:HG23	2.14	0.48
5:E:189:GLY:O	5:E:190:SER:CB	2.61	0.48
5:E:547:MET:SD	6:F:387:ALA:HA	2.53	0.48
6:F:160:THR:N	6:F:164:ALA:CB	2.76	0.48
6:F:491:VAL:HG12	6:F:492:ASP:N	2.27	0.48
7:G:107:GLU:HG2	7:G:448:VAL:HG21	1.95	0.48
7:G:470:LEU:O	7:G:473:SER:OG	2.30	0.48
8:H:334:ARG:HD3	8:H:380:ARG:HH11	1.78	0.48
2:J:274:ALA:HB1	2:J:329:PHE:HA	1.94	0.48
2:J:382:ARG:HG3	2:J:382:ARG:HH11	1.78	0.48
2:J:463:ILE:CG2	2:J:464:TYR:N	2.76	0.48
5:M:193:VAL:O	5:M:193:VAL:HG12	2.14	0.48
7:O:145:VAL:O	7:O:408:LEU:CA	2.58	0.48
8:P:29:ILE:HG22	8:P:30:LYS:N	2.28	0.48
8:P:356:GLU:HB2	8:P:374:GLU:HA	1.95	0.48
1:a:1116:VAL:HG12	1:a:1120:ILE:HG22	1.95	0.48
2:b:1058:ASN:ND2	2:b:1058:ASN:C	2.69	0.48
2:b:1263:LYS:HZ1	3:c:1266:GLU:HG2	1.78	0.48
4:d:1254:VAL:CG2	4:d:1254:VAL:O	2.61	0.48
5:e:1373:LYS:HE2	6:f:1311:LYS:HZ3	1.78	0.48
7:g:1044:LEU:HB2	7:g:1456:ASN:ND2	2.28	0.48
8:h:1027:GLN:O	8:h:1031:SER:N	2.33	0.48
1:i:1116:VAL:HG12	1:i:1120:ILE:HG22	1.95	0.48
1:i:1164:MET:CE	1:i:1169:ILE:HB	2.43	0.48
2:j:1057:THR:HG21	2:j:1382:ARG:NH1	2.28	0.48
2:j:1274:ALA:HB1	2:j:1329:PHE:HA	1.94	0.48
4:l:1044:MET:HE3	8:p:1531:ALA:CB	2.43	0.48
4:l:1204:ILE:O	4:l:1207:THR:HG23	2.13	0.48
6:n:1121:GLY:O	6:n:1444:ILE:HD13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1248:ALA:HB2	8:p:1352:LEU:HD13	1.95	0.48
1:A:13:LEU:HD22	1:A:14:PHE:H	1.78	0.48
2:B:57:THR:HG21	2:B:382:ARG:NH1	2.28	0.48
2:B:377:LEU:H	2:B:377:LEU:HD12	1.78	0.48
2:B:459:LEU:HD13	2:B:472:LEU:CD2	2.43	0.48
4:D:254:VAL:HG13	8:H:264:THR:O	2.14	0.48
7:G:29:ASN:OD1	7:G:79:ALA:HB2	2.12	0.48
7:G:44:LEU:HB2	7:G:456:ASN:ND2	2.28	0.48
8:H:72:LEU:HA	8:H:75:LEU:HB2	1.94	0.48
1:I:264:ILE:O	1:I:264:ILE:HD12	2.13	0.48
1:I:540:ARG:HA	5:M:70:LEU:HD22	1.95	0.48
3:K:9:ASN:HD22	3:K:10:ALA:N	2.11	0.48
3:K:35:ILE:C	3:K:37:THR:H	2.21	0.48
4:L:60:ASP:HB3	4:L:63:THR:OG1	2.12	0.48
5:M:240:ILE:HG12	5:M:244:ILE:HG21	1.94	0.48
6:N:160:THR:N	6:N:164:ALA:CB	2.76	0.48
6:N:199:MET:O	6:N:381:LYS:HE2	2.13	0.48
7:O:249:GLU:O	7:O:250:LEU:C	2.55	0.48
8:P:443:GLY:O	8:P:446:GLN:HG3	2.13	0.48
1:a:1104:ILE:HG12	1:a:1458:ILE:HD11	1.93	0.48
1:a:1162:THR:HG21	1:a:1518:LEU:O	2.13	0.48
2:b:1042:MET:HB3	6:f:1531:ASP:HB2	1.95	0.48
2:b:1242:LYS:HZ1	2:b:1247:GLY:C	2.02	0.48
3:c:1414:PRO:O	3:c:1419:THR:HG23	2.14	0.48
4:d:1046:LYS:HG3	8:h:1532:THR:HG23	1.94	0.48
6:f:1159:LEU:CA	6:f:1164:ALA:HB2	2.41	0.48
6:f:1280:LEU:HD23	6:f:1280:LEU:N	2.27	0.48
6:f:1355:TYR:O	6:f:1366:TYR:O	2.31	0.48
2:j:1042:MET:HB3	6:n:1531:ASP:HB2	1.95	0.48
2:j:1102:LEU:HD23	2:j:1102:LEU:C	2.39	0.48
2:j:1256:ALA:HB1	3:k:1266:GLU:OE2	2.13	0.48
2:j:1463:ILE:CG2	2:j:1464:TYR:N	2.76	0.48
2:j:1464:TYR:HA	2:j:1467:ILE:HD11	1.94	0.48
3:k:1456:LEU:HD21	9:k:2101:ADP:O4'	2.14	0.48
6:n:1405:VAL:HG22	6:n:1509:SER:HB2	1.94	0.48
8:p:1482:HIS:C	8:p:1484:VAL:H	2.18	0.48
2:B:118:GLN:O	2:B:121:ILE:HG12	2.14	0.48
2:B:427:SER:O	2:B:430:VAL:HB	2.12	0.48
2:B:467:ILE:HA	2:B:468:SER:HA	1.59	0.48
3:C:9:ASN:HD22	3:C:10:ALA:N	2.11	0.48
4:D:8:ASN:OD1	4:D:8:ASN:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:204:ILE:O	4:D:207:THR:HG23	2.13	0.48
4:D:260:MET:O	4:D:263:ILE:HG22	2.13	0.48
5:E:346:VAL:O	5:E:347:GLY:C	2.57	0.48
6:F:405:VAL:HG22	6:F:509:SER:HB2	1.94	0.48
8:H:348:THR:O	8:H:352:LEU:HD23	2.13	0.48
2:J:442:THR:HG23	2:J:452:SER:CB	2.34	0.48
5:M:32:VAL:CG2	5:M:33:LYS:H	2.15	0.48
5:M:84:THR:CG2	5:M:86:ASP:H	2.20	0.48
6:N:342:ASP:CG	6:N:345:PRO:HG2	2.38	0.48
6:N:353:LEU:H	6:N:369:GLU:HB3	1.77	0.48
6:N:395:VAL:O	6:N:399:LEU:HB3	2.14	0.48
7:O:97:GLY:O	7:O:101:VAL:HG23	2.14	0.48
7:O:217:GLY:HA3	7:O:366:GLN:HA	1.95	0.48
8:P:248:ALA:HB2	8:P:352:LEU:HD13	1.95	0.48
1:a:1013:LEU:HD22	1:a:1014:PHE:H	1.77	0.48
3:c:1041:PRO:CA	3:c:1161:THR:HG21	2.43	0.48
7:g:1043:THR:HG21	7:g:1064:ASN:O	2.13	0.48
7:g:1249:GLU:O	7:g:1250:LEU:C	2.55	0.48
8:h:1348:THR:O	8:h:1352:LEU:HD23	2.13	0.48
8:h:1356:GLU:HB2	8:h:1374:GLU:HA	1.95	0.48
1:i:1264:ILE:O	1:i:1264:ILE:HD12	2.14	0.48
4:l:1008:ASN:OD1	4:l:1008:ASN:O	2.31	0.48
4:l:1115:ILE:HG21	4:l:1439:ILE:HG13	1.94	0.48
5:m:1352:GLU:HA	6:n:1222:PRO:HG3	1.93	0.48
6:n:1395:VAL:O	6:n:1399:LEU:HB3	2.14	0.48
7:o:1107:GLU:HG2	7:o:1448:VAL:HG21	1.95	0.48
8:p:1356:GLU:HB2	8:p:1374:GLU:HA	1.95	0.48
2:B:502:SER:HA	2:B:505:ALA:HB3	1.94	0.48
3:C:9:ASN:ND2	3:C:10:ALA:H	2.11	0.48
3:C:35:ILE:C	3:C:37:THR:H	2.22	0.48
6:F:355:TYR:O	6:F:366:TYR:O	2.31	0.48
7:G:214:PHE:O	7:G:214:PHE:CG	2.67	0.48
8:H:31:SER:HB2	8:H:79:HIS:HE1	1.78	0.48
8:H:85:LEU:HD13	8:H:107:ALA:HB1	1.95	0.48
1:I:10:SER:O	1:I:11:ASP:O	2.31	0.48
1:I:12:THR:CB	5:M:96:LEU:HA	2.43	0.48
2:J:57:THR:HG21	2:J:382:ARG:NH1	2.28	0.48
2:J:162:SER:O	2:J:163:SER:OG	2.30	0.48
6:N:61:VAL:O	6:N:65:GLU:HB2	2.13	0.48
7:O:516:LEU:HD22	7:O:517:ILE:CA	2.42	0.48
8:P:27:GLN:O	8:P:31:SER:N	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:237:LYS:HB2	8:P:314:ASN:CB	2.31	0.48
2:b:1068:PRO:HG2	6:f:1536:ALA:HB2	1.95	0.48
2:b:1463:ILE:CG2	2:b:1464:TYR:N	2.76	0.48
3:c:1162:LYS:C	3:c:1164:VAL:H	2.22	0.48
4:d:1030:SER:HA	4:d:1033:ASP:CG	2.37	0.48
6:f:1243:GLU:OE2	6:f:1243:GLU:CA	2.52	0.48
6:f:1414:GLY:O	6:f:1415:ALA:CB	2.62	0.48
7:g:1097:GLY:O	7:g:1101:VAL:HG23	2.14	0.48
7:g:1214:PHE:CG	7:g:1214:PHE:O	2.67	0.48
7:g:1217:GLY:HA3	7:g:1366:GLN:HA	1.95	0.48
1:i:1546:THR:HA	5:m:1075:ILE:HB	1.95	0.48
2:j:1088:VAL:HG13	2:j:1393:GLN:NE2	2.21	0.48
3:k:1117:HIS:HE1	8:p:1050:GLY:O	1.96	0.48
6:n:1491:VAL:HG12	6:n:1492:ASP:N	2.27	0.48
7:o:1304:THR:HA	7:o:1307:PHE:CE2	2.46	0.48
7:o:1516:LEU:HD22	7:o:1517:ILE:CA	2.42	0.48
2:B:463:ILE:CG2	2:B:464:TYR:N	2.76	0.48
3:C:162:LYS:C	3:C:164:VAL:H	2.22	0.48
3:C:318:ARG:O	3:C:319:ARG:C	2.56	0.48
4:D:523:ASP:O	7:G:51:ILE:CG2	2.53	0.48
6:F:47:VAL:HG12	6:F:48:ASP:N	2.28	0.48
7:G:171:ILE:O	7:G:171:ILE:HG22	2.12	0.48
4:L:81:VAL:HG21	4:L:514:CYS:SG	2.54	0.48
4:L:291:SER:HA	4:L:315:ASP:CA	2.44	0.48
6:N:486:THR:O	6:N:487:ARG:CB	2.62	0.48
7:O:108:LEU:O	7:O:108:LEU:HD23	2.13	0.48
7:O:452:GLN:CD	7:O:452:GLN:H	2.21	0.48
1:a:1010:SER:O	1:a:1011:ASP:O	2.31	0.48
2:b:1237:THR:N	2:b:1287:ARG:HD2	2.28	0.48
2:b:1328:THR:O	2:b:1329:PHE:CB	2.62	0.48
3:c:1479:ASN:HB3	3:c:1482:THR:OG1	2.14	0.48
4:d:1081:VAL:HG22	7:g:1382:ALA:HB2	1.94	0.48
4:d:1219:ALA:HB1	4:d:1221:LYS:HZ1	1.77	0.48
4:d:1298:ASN:HB3	4:d:1299:ASP:CA	2.43	0.48
7:g:1108:LEU:O	7:g:1108:LEU:HD23	2.13	0.48
1:i:1086:LEU:HD23	1:i:1086:LEU:C	2.39	0.48
1:i:1221:GLY:HA2	1:i:1382:SER:CB	2.42	0.48
5:m:1325:TRP:CG	5:m:1326:GLY:N	2.80	0.48
6:n:1420:ILE:CG2	6:n:1482:ASP:CG	2.86	0.48
8:p:1085:LEU:HD13	8:p:1107:ALA:HB1	1.95	0.48
1:A:494:ARG:CB	1:A:496:SER:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:215:ASP:O	5:E:216:ARG:CB	2.62	0.48
5:E:351:LEU:HD22	5:E:352:GLU:N	2.29	0.48
6:F:28:GLY:C	6:F:30:GLN:H	2.22	0.48
6:F:486:THR:O	6:F:487:ARG:CB	2.62	0.48
8:H:65:THR:HG22	8:H:396:ASP:OD1	2.14	0.48
8:H:443:GLY:O	8:H:446:GLN:HG3	2.13	0.48
2:J:59:ASP:HB3	2:J:62:THR:OG1	2.14	0.48
2:J:206:SER:HB2	2:J:368:VAL:HG22	1.94	0.48
2:J:314:VAL:HG11	3:K:232:PRO:HD3	1.95	0.48
2:J:438:ARG:O	2:J:441:PRO:HG2	2.14	0.48
3:K:318:ARG:O	3:K:319:ARG:C	2.56	0.48
4:L:72:HIS:CD2	8:P:15:LYS:NZ	2.82	0.48
5:M:215:ASP:O	5:M:216:ARG:CB	2.62	0.48
6:N:195:GLU:CD	6:N:197:MET:SD	2.97	0.48
6:N:237:ASN:HA	6:N:297:ASN:OD1	2.13	0.48
6:N:430:ASN:HA	6:N:433:LYS:HB2	1.96	0.48
7:O:500:ALA:O	7:O:504:ILE:HG13	2.14	0.48
8:P:85:LEU:HD13	8:P:107:ALA:HB1	1.95	0.48
1:a:1501:GLY:HA3	1:a:1512:GLU:HG2	1.95	0.48
2:b:1005:ILE:HD12	2:b:1007:GLY:H	1.78	0.48
2:b:1251:LYS:N	6:f:1251:PHE:HA	2.21	0.48
3:c:1009:ASN:HD22	3:c:1010:ALA:N	2.11	0.48
3:c:1124:ALA:HB2	3:c:1438:GLN:HE22	1.78	0.48
5:e:1175:LEU:HD12	5:e:1175:LEU:O	2.14	0.48
5:e:1250:SER:HB3	5:e:1342:ALA:O	2.14	0.48
6:f:1086:ILE:HG23	6:f:1087:THR:HG23	1.96	0.48
7:g:1241:ILE:HG12	7:g:1292:ILE:CG2	2.44	0.48
7:g:1452:GLN:CD	7:g:1452:GLN:H	2.21	0.48
7:g:1483:PHE:CB	9:g:1601:ADP:HN62	2.26	0.48
8:h:1031:SER:HB2	8:h:1079:HIS:HE1	1.78	0.48
1:i:1094:ILE:HD12	1:i:1094:ILE:N	2.29	0.48
2:j:1422:ILE:HG22	2:j:1424:GLY:H	1.75	0.48
2:j:1459:LEU:HD13	2:j:1472:LEU:CD2	2.43	0.48
3:k:1414:PRO:O	3:k:1419:THR:HG23	2.14	0.48
4:l:1081:VAL:HG21	4:l:1514:CYS:SG	2.54	0.48
4:l:1174:ALA:O	4:l:1178:VAL:HG23	2.13	0.48
4:l:1254:VAL:CG2	4:l:1254:VAL:O	2.61	0.48
5:m:1175:LEU:HD12	5:m:1175:LEU:O	2.14	0.48
5:m:1250:SER:HB3	5:m:1342:ALA:O	2.14	0.48
7:o:1108:LEU:O	7:o:1108:LEU:HD23	2.13	0.48
8:p:1065:THR:HG22	8:p:1396:ASP:OD1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1163:ILE:CG2	8:p:1179:SER:HB2	2.40	0.48
1:A:92:ARG:HG2	5:E:388:THR:CB	2.43	0.48
1:A:156:LEU:HD23	1:A:156:LEU:O	2.14	0.48
6:F:22:ASN:O	6:F:72:THR:HG21	2.14	0.48
7:G:97:GLY:O	7:G:101:VAL:HG23	2.14	0.48
8:H:310:LEU:HD13	8:H:314:ASN:OD1	2.14	0.48
1:I:86:LEU:HD23	1:I:86:LEU:C	2.39	0.48
2:J:102:LEU:HD23	2:J:102:LEU:C	2.39	0.48
5:M:250:SER:HB3	5:M:342:ALA:O	2.14	0.48
6:N:332:THR:HB	6:N:351:SER:HA	1.96	0.48
6:N:414:GLY:O	6:N:415:ALA:CB	2.62	0.48
6:N:429:ALA:O	6:N:433:LYS:HD3	2.14	0.48
6:N:485:GLU:CG	6:N:489:VAL:HB	2.44	0.48
7:O:107:GLU:HG2	7:O:448:VAL:HG21	1.95	0.48
8:P:48:PRO:HB3	8:P:172:TYR:CD1	2.49	0.48
1:a:1090:GLN:HG3	1:a:1101:VAL:CG2	2.19	0.48
3:c:1174:LEU:HG	3:c:1219:VAL:HG22	1.96	0.48
4:d:1081:VAL:HG21	4:d:1514:CYS:SG	2.54	0.48
4:d:1204:ILE:O	4:d:1207:THR:HG23	2.13	0.48
5:e:1037:ASN:HD22	6:n:1114:HIS:CD2	2.31	0.48
6:f:1071:PRO:HG2	6:f:1533:LEU:HD12	1.94	0.48
6:f:1405:VAL:HG22	6:f:1509:SER:HB2	1.94	0.48
6:f:1446:ALA:HA	6:f:1449:GLU:HG3	1.95	0.48
7:g:1107:GLU:HG2	7:g:1448:VAL:HG21	1.95	0.48
8:h:1035:ILE:HD13	8:h:1082:VAL:HA	1.95	0.48
8:h:1334:ARG:HD3	8:h:1380:ARG:HH11	1.77	0.48
1:i:1494:ARG:CB	1:i:1496:SER:H	2.21	0.48
2:j:1059:ASP:HB3	2:j:1062:THR:OG1	2.14	0.48
3:k:1009:ASN:HD22	3:k:1010:ALA:N	2.11	0.48
3:k:1035:ILE:C	3:k:1037:THR:H	2.22	0.48
3:k:1471:LEU:HG	3:k:1491:ILE:HG13	1.96	0.48
7:o:1235:LYS:CB	7:o:1353:GLU:HA	2.44	0.48
7:o:1249:GLU:O	7:o:1250:LEU:C	2.55	0.48
7:o:1500:ALA:O	7:o:1504:ILE:HG13	2.14	0.48
8:p:1027:GLN:O	8:p:1031:SER:N	2.33	0.48
8:p:1035:ILE:HD13	8:p:1082:VAL:HA	1.95	0.48
8:p:1048:PRO:HB3	8:p:1172:TYR:CD1	2.49	0.48
8:p:1243:LYS:HB3	8:p:1244:LYS:NZ	2.29	0.48
8:p:1334:ARG:HD3	8:p:1380:ARG:HH11	1.77	0.48
8:p:1396:ASP:HA	8:p:1399:ARG:HH11	1.79	0.48
2:B:263:LYS:NZ	3:C:266:GLU:CB	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:479:ASN:HB3	3:C:482:THR:OG1	2.14	0.48
4:D:44:MET:HG3	8:H:531:ALA:CB	2.41	0.48
5:E:127:SER:O	5:E:128:ALA:C	2.57	0.48
5:E:193:VAL:O	5:E:193:VAL:HG12	2.14	0.48
6:F:429:ALA:O	6:F:433:LYS:HD3	2.14	0.48
7:G:241:ILE:HG12	7:G:292:ILE:CG2	2.44	0.48
2:J:32:LEU:HG	6:N:532:GLU:CD	2.37	0.48
2:J:233:ILE:O	2:J:325:VAL:N	2.46	0.48
2:J:285:ILE:HD13	2:J:285:ILE:H	1.78	0.48
2:J:377:LEU:H	2:J:377:LEU:HD12	1.78	0.48
3:K:268:ASP:O	3:K:272:ILE:HG12	2.14	0.48
4:L:91:ASP:OD1	10:L:602:BEF:F1	2.22	0.48
5:M:351:LEU:HD22	5:M:352:GLU:N	2.29	0.48
6:N:2:SER:HA	6:N:3:LEU:CB	2.35	0.48
7:O:43:THR:HB	7:O:99:THR:CG2	2.39	0.48
8:P:65:THR:HG22	8:P:396:ASP:OD1	2.14	0.48
1:a:1086:LEU:C	1:a:1086:LEU:HD23	2.39	0.48
2:b:1059:ASP:HB3	2:b:1062:THR:OG1	2.14	0.48
2:b:1070:ASP:HB3	6:f:1005:LEU:HD22	1.92	0.48
2:b:1243:VAL:HG22	3:c:1273:LEU:HA	1.95	0.48
2:b:1438:ARG:O	2:b:1441:PRO:HG2	2.14	0.48
4:d:1134:ILE:HD12	4:d:1421:ILE:HD13	1.95	0.48
5:e:1074:LEU:HD12	5:e:1093:GLN:HB3	1.96	0.48
5:e:1325:TRP:CG	5:e:1326:GLY:N	2.80	0.48
5:e:1535:LYS:HD2	5:e:1535:LYS:C	2.39	0.48
8:h:1065:THR:HG22	8:h:1396:ASP:OD1	2.14	0.48
8:h:1248:ALA:HB2	8:h:1352:LEU:CD1	2.44	0.48
2:j:1124:TYR:N	2:j:1124:TYR:HD1	2.12	0.48
4:l:1260:MET:O	4:l:1263:ILE:HG22	2.13	0.48
4:l:1352:GLU:HA	4:l:1361:VAL:HA	1.95	0.48
4:l:1499:GLN:NE2	9:l:1601:ADP:O2'	2.46	0.48
5:m:1193:VAL:O	5:m:1193:VAL:HG12	2.14	0.48
6:n:1047:VAL:HG12	6:n:1048:ASP:N	2.28	0.48
6:n:1332:THR:HB	6:n:1351:SER:HA	1.96	0.48
6:n:1414:GLY:O	6:n:1415:ALA:CB	2.62	0.48
6:n:1446:ALA:HA	6:n:1449:GLU:HG3	1.95	0.48
7:o:1241:ILE:HG12	7:o:1292:ILE:CG2	2.44	0.48
7:o:1455:GLU:N	7:o:1461:ALA:HB2	2.29	0.48
8:p:1423:ALA:H	9:p:1601:ADP:H3'	1.77	0.48
8:p:1443:GLY:O	8:p:1446:GLN:HG3	2.13	0.48
1:A:86:LEU:HD23	1:A:86:LEU:C	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:ILE:HD12	1:A:94:ILE:N	2.29	0.48
1:A:264:ILE:O	1:A:264:ILE:HD12	2.14	0.48
1:A:501:GLY:HA3	1:A:512:GLU:HG2	1.95	0.48
3:C:268:ASP:O	3:C:272:ILE:HG12	2.14	0.48
3:C:471:LEU:HG	3:C:491:ILE:HG13	1.96	0.48
5:E:133:ALA:HB2	5:E:150:PHE:HE2	1.79	0.48
5:E:325:TRP:CG	5:E:326:GLY:N	2.80	0.48
6:F:332:THR:HB	6:F:351:SER:HA	1.96	0.48
6:F:353:LEU:H	6:F:369:GLU:HB3	1.77	0.48
6:F:420:ILE:CG2	6:F:482:ASP:CG	2.86	0.48
6:F:430:ASN:C	6:F:432:ASN:H	2.22	0.48
7:G:145:VAL:O	7:G:408:LEU:CA	2.58	0.48
7:G:455:GLU:N	7:G:461:ALA:HB2	2.29	0.48
8:H:48:PRO:HB3	8:H:172:TYR:CD1	2.49	0.48
1:I:116:VAL:HG12	1:I:120:ILE:HG22	1.95	0.48
3:K:306:GLN:C	3:K:310:LEU:HG	2.37	0.48
4:L:254:VAL:O	4:L:254:VAL:CG2	2.61	0.48
6:N:420:ILE:CG2	6:N:482:ASP:CG	2.86	0.48
6:N:541:LEU:HB3	6:N:543:GLU:N	2.26	0.48
7:O:174:ASN:ND2	7:O:209:MET:SD	2.80	0.48
8:P:163:ILE:HG23	8:P:179:SER:CB	2.42	0.48
1:a:1164:MET:CE	1:a:1169:ILE:HB	2.44	0.48
2:b:1375:GLN:HE22	6:f:1075:LEU:HB2	1.79	0.48
3:c:1016:THR:HA	3:c:1525:ASP:HB3	1.95	0.48
4:d:1260:MET:O	4:d:1263:ILE:HG22	2.13	0.48
6:f:1016:ASP:OD1	6:f:1016:ASP:N	2.36	0.48
6:f:1076:ILE:HG21	6:f:1095:VAL:HG13	1.96	0.48
8:h:1048:PRO:HB3	8:h:1172:TYR:CD1	2.49	0.48
8:h:1085:LEU:HD13	8:h:1107:ALA:HB1	1.95	0.48
2:j:1377:LEU:H	2:j:1377:LEU:HD12	1.78	0.48
2:j:1403:GLY:O	2:j:1482:MET:HG3	2.14	0.48
3:k:1041:PRO:CA	3:k:1161:THR:HG21	2.43	0.48
3:k:1112:ILE:HG13	3:k:1113:GLU:N	2.29	0.48
6:n:1043:LEU:CD2	6:n:1161:LYS:HA	2.40	0.48
6:n:1160:THR:N	6:n:1164:ALA:CB	2.76	0.48
6:n:1353:LEU:H	6:n:1369:GLU:HB3	1.77	0.48
6:n:1485:GLU:CG	6:n:1489:VAL:HB	2.44	0.48
7:o:1044:LEU:HB2	7:o:1456:ASN:ND2	2.28	0.48
8:p:1310:LEU:HD13	8:p:1314:ASN:OD1	2.14	0.48
1:A:162:THR:HG21	1:A:518:LEU:O	2.13	0.47
2:B:88:VAL:CG1	2:B:393:GLN:HE22	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:124:TYR:N	2:B:124:TYR:HD1	2.12	0.47
2:B:282:ASN:ND2	2:B:303:ILE:HB	2.29	0.47
3:C:39:LEU:CB	9:C:1101:ADP:O2A	2.62	0.47
3:C:225:LEU:HD13	3:C:320:VAL:HG11	1.96	0.47
4:D:81:VAL:HG21	4:D:514:CYS:SG	2.54	0.47
5:E:85:ASN:ND2	9:E:601:ADP:O3B	2.46	0.47
6:F:167:THR:CB	6:F:169:VAL:N	2.64	0.47
7:G:208:ALA:O	7:G:211:GLU:HB2	2.14	0.47
7:G:500:ALA:O	7:G:504:ILE:HG13	2.14	0.47
8:H:79:HIS:CE1	8:H:81:ALA:HB3	2.48	0.47
1:I:162:THR:HG21	1:I:518:LEU:O	2.13	0.47
3:K:225:LEU:HD13	3:K:320:VAL:HG11	1.96	0.47
3:K:471:LEU:HG	3:K:491:ILE:HG13	1.96	0.47
4:L:8:ASN:O	4:L:8:ASN:OD1	2.31	0.47
4:L:260:MET:O	4:L:263:ILE:HG22	2.13	0.47
4:L:298:ASN:HB3	4:L:299:ASP:CA	2.43	0.47
4:L:523:ASP:C	7:O:51:ILE:HG23	2.37	0.47
5:M:355:ALA:CB	6:N:222:PRO:HG2	2.43	0.47
6:N:47:VAL:HG12	6:N:48:ASP:N	2.28	0.47
6:N:71:PRO:HG2	6:N:533:LEU:HD12	1.94	0.47
6:N:81:ALA:O	6:N:82:ALA:C	2.57	0.47
6:N:454:ILE:N	6:N:455:PRO:HD2	2.29	0.47
7:O:115:PHE:CE1	7:O:437:MET:HB3	2.49	0.47
7:O:214:PHE:O	7:O:214:PHE:CG	2.67	0.47
8:P:310:LEU:HD13	8:P:314:ASN:OD1	2.14	0.47
8:P:396:ASP:HA	8:P:399:ARG:HH11	1.79	0.47
1:a:1264:ILE:O	1:a:1264:ILE:HD12	2.14	0.47
2:b:1469:THR:CG2	2:b:1481:ASP:HB2	2.44	0.47
2:b:1514:ILE:HG22	2:b:1515:ILE:H	1.78	0.47
3:c:1035:ILE:C	3:c:1037:THR:H	2.22	0.47
5:e:1193:VAL:O	5:e:1193:VAL:HG12	2.14	0.47
6:f:1022:ASN:O	6:f:1072:THR:HG21	2.14	0.47
6:f:1195:GLU:CD	6:f:1197:MET:SD	2.97	0.47
6:f:1224:MET:HE2	6:f:1315:LEU:HA	1.96	0.47
7:g:1051:ILE:HB	7:g:1069:ILE:HD11	1.96	0.47
2:j:1063:ILE:CG2	2:j:1064:LEU:HG	2.44	0.47
2:j:1160:THR:HG21	2:j:1390:VAL:HG21	1.94	0.47
2:j:1502:SER:HA	2:j:1505:ALA:HB3	1.94	0.47
3:k:1142:PRO:HG3	3:k:1411:SER:CA	2.44	0.47
3:k:1202:ARG:O	3:k:1204:VAL:O	2.32	0.47
5:m:1032:VAL:CG2	5:m:1033:LYS:H	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1028:GLY:C	6:n:1030:GLN:H	2.22	0.47
6:n:1237:ASN:HA	6:n:1297:ASN:OD1	2.13	0.47
6:n:1436:ALA:HA	6:n:1437:LYS:HA	1.66	0.47
2:B:242:LYS:HE2	2:B:247:GLY:N	2.26	0.47
4:D:174:ALA:O	4:D:178:VAL:HG23	2.13	0.47
4:D:298:ASN:HB3	4:D:299:ASP:CA	2.43	0.47
4:D:436:GLN:H	4:D:436:GLN:CD	2.22	0.47
5:E:32:VAL:CG2	5:E:33:LYS:H	2.15	0.47
5:E:175:LEU:HD12	5:E:175:LEU:O	2.14	0.47
5:E:250:SER:HB3	5:E:342:ALA:O	2.14	0.47
5:E:277:GLU:CB	5:E:278:PRO:HD2	2.44	0.47
6:F:81:ALA:O	6:F:82:ALA:C	2.57	0.47
6:F:414:GLY:O	6:F:415:ALA:CB	2.62	0.47
7:G:108:LEU:O	7:G:108:LEU:HD23	2.13	0.47
7:G:120:ILE:HG23	8:P:472:ASN:ND2	2.30	0.47
8:H:6:PRO:CG	4:L:71:LEU:HA	2.35	0.47
8:H:167:ILE:HD11	8:H:182:VAL:HG21	1.96	0.47
8:H:248:ALA:HB2	8:H:352:LEU:HD13	1.95	0.47
2:J:237:THR:N	2:J:287:ARG:HD2	2.28	0.47
2:J:410:VAL:HB	2:J:468:SER:OG	2.13	0.47
3:K:129:LEU:HD23	3:K:510:VAL:HG12	1.96	0.47
4:L:434:GLY:HA3	4:L:436:GLN:OE1	2.14	0.47
6:N:86:ILE:HG23	6:N:87:THR:HG23	1.96	0.47
7:O:241:ILE:HG12	7:O:292:ILE:CG2	2.44	0.47
8:P:248:ALA:HB2	8:P:352:LEU:CD1	2.44	0.47
8:P:482:HIS:C	8:P:484:VAL:N	2.65	0.47
2:b:1032:LEU:HG	6:f:1532:GLU:OE1	2.13	0.47
2:b:1063:ILE:CG2	2:b:1064:LEU:HG	2.44	0.47
2:b:1102:LEU:HD23	2:b:1102:LEU:C	2.39	0.47
2:b:1142:ASN:CB	2:b:1143:SER:HA	2.18	0.47
2:b:1477:GLY:O	2:b:1478:THR:CB	2.62	0.47
3:c:1119:VAL:HG21	8:h:1049:CYS:HA	1.96	0.47
3:c:1202:ARG:O	3:c:1204:VAL:O	2.32	0.47
4:d:1291:SER:HA	4:d:1315:ASP:CA	2.44	0.47
6:f:1420:ILE:CG2	6:f:1482:ASP:CG	2.86	0.47
6:f:1430:ASN:HA	6:f:1433:LYS:HB2	1.96	0.47
7:g:1396:ALA:O	7:g:1397:ILE:C	2.55	0.47
8:h:1310:LEU:HD13	8:h:1314:ASN:OD1	2.14	0.47
2:j:1118:GLN:O	2:j:1121:ILE:HG12	2.14	0.47
2:j:1492:LYS:H	2:j:1492:LYS:HZ1	1.63	0.47
4:l:1434:GLY:HA3	4:l:1436:GLN:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1535:LYS:HD2	5:m:1535:LYS:C	2.38	0.47
6:n:1195:GLU:CD	6:n:1197:MET:SD	2.97	0.47
7:o:1217:GLY:HA3	7:o:1366:GLN:HA	1.95	0.47
7:o:1396:ALA:O	7:o:1397:ILE:C	2.55	0.47
8:p:1031:SER:HB2	8:p:1079:HIS:HE1	1.78	0.47
8:p:1248:ALA:HB2	8:p:1352:LEU:CD1	2.44	0.47
1:A:540:ARG:HA	5:E:70:LEU:HD22	1.95	0.47
2:B:59:ASP:HB3	2:B:62:THR:OG1	2.14	0.47
2:B:422:ILE:HG22	2:B:424:GLY:H	1.75	0.47
4:D:328:LEU:O	4:D:345:ASP:CG	2.57	0.47
5:E:74:LEU:HD12	5:E:93:GLN:HB3	1.96	0.47
5:E:428:CYS:O	5:E:431:ARG:HG3	2.15	0.47
6:F:5:LEU:HB3	6:F:6:LEU:C	2.39	0.47
7:G:249:GLU:O	7:G:250:LEU:C	2.55	0.47
8:H:248:ALA:HB2	8:H:352:LEU:CD1	2.44	0.47
1:I:14:PHE:CB	1:I:15:LEU:HA	2.43	0.47
2:J:124:TYR:N	2:J:124:TYR:CD1	2.82	0.47
3:K:84:THR:HG21	8:P:389:ALA:HA	1.97	0.47
3:K:117:HIS:HE1	8:P:50:GLY:O	1.97	0.47
3:K:170:LYS:HD3	3:K:170:LYS:O	2.14	0.47
3:K:479:ASN:HB3	3:K:482:THR:OG1	2.14	0.47
4:L:350:VAL:HG22	4:L:363:VAL:HG13	1.97	0.47
7:O:143:LEU:HD22	7:O:411:ALA:HB2	1.94	0.47
8:P:482:HIS:C	8:P:484:VAL:H	2.18	0.47
1:a:1336:THR:HB	1:a:1354:TYR:HD1	1.80	0.47
1:a:1350:PHE:HE2	1:a:1354:TYR:CB	2.16	0.47
2:b:1243:VAL:HG12	2:b:1245:ILE:N	2.29	0.47
3:c:1142:PRO:HG3	3:c:1411:SER:CA	2.44	0.47
4:d:1135:LEU:CD1	4:d:1411:ILE:HD11	2.43	0.47
4:d:1352:GLU:HA	4:d:1361:VAL:HA	1.95	0.47
5:e:1035:GLN:CD	5:e:1036:GLY:CA	2.86	0.47
5:e:1127:SER:O	5:e:1128:ALA:C	2.57	0.47
5:e:1215:ASP:O	5:e:1216:ARG:CB	2.62	0.47
6:f:1485:GLU:CG	6:f:1489:VAL:HB	2.44	0.47
8:h:1077:ILE:H	8:h:1077:ILE:CD1	2.26	0.47
8:h:1396:ASP:HA	8:h:1399:ARG:HH11	1.79	0.47
3:k:1129:LEU:HD23	3:k:1510:VAL:HG12	1.96	0.47
3:k:1348:VAL:HG12	3:k:1349:GLY:N	2.30	0.47
5:m:1176:PHE:O	5:m:1180:LEU:HD23	2.15	0.47
6:n:1076:ILE:HG21	6:n:1095:VAL:HG13	1.96	0.47
7:o:1043:THR:HG21	7:o:1064:ASN:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1051:ILE:HB	7:o:1069:ILE:HD11	1.96	0.47
8:p:1348:THR:O	8:p:1352:LEU:HD23	2.13	0.47
8:p:1442:PRO:HA	8:p:1446:GLN:HE21	1.80	0.47
8:H:423:ALA:CA	9:H:601:ADP:H2'	2.31	0.47
1:I:221:GLY:HA2	1:I:382:SER:CB	2.42	0.47
2:J:63:ILE:CG2	2:J:64:LEU:HG	2.44	0.47
2:J:118:GLN:O	2:J:121:ILE:HG12	2.14	0.47
2:J:263:LYS:HZ1	3:K:266:GLU:HG2	1.78	0.47
2:J:282:ASN:ND2	2:J:303:ILE:HB	2.29	0.47
2:J:469:THR:CG2	2:J:481:ASP:HB2	2.44	0.47
3:K:237:HIS:C	3:K:238:ILE:HG13	2.40	0.47
3:K:495:VAL:HG23	3:K:500:TRP:CH2	2.48	0.47
5:M:175:LEU:HD12	5:M:175:LEU:O	2.14	0.47
6:N:213:LEU:HD23	6:N:377:THR:CG2	2.40	0.47
9:N:601:ADP:O2'	9:N:601:ADP:H8	1.97	0.47
7:O:43:THR:HG21	7:O:64:ASN:O	2.13	0.47
2:b:1124:TYR:N	2:b:1124:TYR:CD1	2.82	0.47
2:b:1377:LEU:HD12	2:b:1377:LEU:H	1.79	0.47
3:c:1175:ALA:O	3:c:1179:VAL:HG23	2.15	0.47
5:e:1346:VAL:O	5:e:1347:GLY:C	2.57	0.47
5:e:1428:CYS:O	5:e:1431:ARG:HG3	2.15	0.47
6:f:1430:ASN:C	6:f:1432:ASN:H	2.22	0.47
6:f:1486:THR:O	6:f:1487:ARG:CB	2.62	0.47
7:g:1208:ALA:O	7:g:1211:GLU:HB2	2.14	0.47
2:j:1027:ILE:O	2:j:1027:ILE:HG12	2.15	0.47
2:j:1285:ILE:HD13	2:j:1285:ILE:H	1.78	0.47
3:k:1479:ASN:HB3	3:k:1482:THR:OG1	2.14	0.47
4:l:1292:ILE:N	4:l:1293:LEU:CA	2.73	0.47
4:l:1350:VAL:HG22	4:l:1363:VAL:HG13	1.97	0.47
5:m:1133:ALA:HB2	5:m:1150:PHE:HE2	1.79	0.47
5:m:1215:ASP:O	5:m:1216:ARG:CB	2.62	0.47
5:m:1450:MET:HE3	5:m:1454:VAL:CG2	2.45	0.47
6:n:1060:LYS:O	6:n:1064:THR:OG1	2.25	0.47
8:p:1164:LYS:HB3	8:p:1165:PRO:HD3	1.96	0.47
1:A:419:VAL:CG1	1:A:425:VAL:HG21	2.44	0.47
2:B:285:ILE:HD13	2:B:285:ILE:H	1.78	0.47
2:B:289:LEU:HD21	2:B:304:ASN:OD1	2.15	0.47
2:B:410:VAL:HB	2:B:468:SER:OG	2.13	0.47
2:B:514:ILE:HG23	3:C:47:MET:O	2.14	0.47
3:C:47:MET:HG2	3:C:48:LEU:N	2.30	0.47
3:C:457:ILE:HG22	3:C:462:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:81:VAL:HA	7:G:382:ALA:HB2	1.96	0.47
5:E:150:PHE:CD1	5:E:472:PHE:CE2	3.03	0.47
6:F:224:MET:HE2	6:F:315:LEU:HA	1.96	0.47
6:F:424:ARG:HA	6:F:424:ARG:NE	2.12	0.47
7:G:117:GLU:CD	7:G:117:GLU:N	2.73	0.47
7:G:217:GLY:O	7:G:375:THR:HG22	2.15	0.47
7:G:235:LYS:CB	7:G:353:GLU:HA	2.44	0.47
8:H:164:LYS:HB3	8:H:165:PRO:HD3	1.96	0.47
8:H:243:LYS:HB3	8:H:244:LYS:NZ	2.29	0.47
2:J:289:LEU:HD21	2:J:304:ASN:OD1	2.15	0.47
2:J:402:LEU:CD1	2:J:483:ARG:HE	2.24	0.47
3:K:108:ALA:O	3:K:112:ILE:HG23	2.15	0.47
3:K:174:LEU:HG	3:K:219:VAL:HG22	1.96	0.47
3:K:414:PRO:O	3:K:419:THR:HG23	2.14	0.47
4:L:292:ILE:N	4:L:293:LEU:CA	2.73	0.47
5:M:133:ALA:HB2	5:M:150:PHE:HE2	1.79	0.47
5:M:189:GLY:O	5:M:190:SER:CB	2.61	0.47
6:N:108:PHE:CE1	6:N:118:ILE:HG13	2.50	0.47
6:N:352:GLY:C	6:N:367:VAL:HG12	2.40	0.47
7:O:117:GLU:CD	7:O:117:GLU:N	2.73	0.47
7:O:452:GLN:HA	7:O:455:GLU:HB2	1.96	0.47
8:P:31:SER:HB2	8:P:79:HIS:HE1	1.78	0.47
8:P:243:LYS:HB3	8:P:244:LYS:NZ	2.29	0.47
8:P:348:THR:O	8:P:352:LEU:HD23	2.13	0.47
1:a:1094:ILE:HD12	1:a:1094:ILE:N	2.29	0.47
2:b:1282:ASN:ND2	2:b:1303:ILE:HB	2.29	0.47
3:c:1471:LEU:HG	3:c:1491:ILE:HG13	1.96	0.47
4:d:1174:ALA:O	4:d:1178:VAL:HG23	2.13	0.47
4:d:1350:VAL:HG22	4:d:1363:VAL:HG13	1.97	0.47
6:f:1028:GLY:C	6:f:1030:GLN:H	2.22	0.47
7:g:1115:PHE:CE1	7:g:1437:MET:HB3	2.49	0.47
7:g:1144:ALA:HA	7:g:1409:ILE:O	2.14	0.47
7:g:1217:GLY:O	7:g:1375:THR:HG22	2.15	0.47
7:g:1452:GLN:HA	7:g:1455:GLU:HB2	1.96	0.47
7:g:1455:GLU:HG3	7:g:1461:ALA:HB3	1.96	0.47
1:i:1162:THR:HG21	1:i:1518:LEU:O	2.13	0.47
2:j:1459:LEU:HD11	2:j:1471:GLY:C	2.40	0.47
2:j:1477:GLY:O	2:j:1478:THR:CB	2.62	0.47
2:j:1514:ILE:HG22	2:j:1515:ILE:H	1.78	0.47
5:m:1351:LEU:HD22	5:m:1352:GLU:N	2.29	0.47
5:m:1428:CYS:O	5:m:1431:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:93:THR:OG1	9:B:601:ADP:O2A	2.31	0.47
6:F:195:GLU:CD	6:F:197:MET:SD	2.97	0.47
1:I:145:SER:O	1:I:148:VAL:HG23	2.15	0.47
3:K:162:LYS:C	3:K:164:VAL:H	2.22	0.47
5:M:150:PHE:CD1	5:M:472:PHE:CE2	3.03	0.47
5:M:535:LYS:HD2	5:M:535:LYS:C	2.38	0.47
6:N:280:LEU:HD23	6:N:280:LEU:N	2.27	0.47
2:b:1003:VAL:HB	2:b:1004:GLN:CD	2.40	0.47
2:b:1027:ILE:O	2:b:1027:ILE:HG12	2.15	0.47
2:b:1118:GLN:O	2:b:1121:ILE:HG12	2.14	0.47
2:b:1490:SER:HB2	2:b:1492:LYS:HZ1	1.79	0.47
3:c:1009:ASN:ND2	3:c:1010:ALA:H	2.11	0.47
3:c:1237:HIS:C	3:c:1238:ILE:HG13	2.40	0.47
5:e:1373:LYS:HE2	6:f:1311:LYS:NZ	2.28	0.47
7:g:1017:THR:HG22	7:g:1526:ASN:HD22	1.80	0.47
7:g:1235:LYS:CB	7:g:1353:GLU:HA	2.44	0.47
7:g:1516:LEU:HD22	7:g:1517:ILE:CA	2.42	0.47
8:h:1164:LYS:HB3	8:h:1165:PRO:HD3	1.96	0.47
8:h:1243:LYS:HB3	8:h:1244:LYS:NZ	2.29	0.47
1:i:1156:LEU:HD23	1:i:1156:LEU:O	2.14	0.47
3:k:1108:ALA:O	3:k:1112:ILE:HG23	2.15	0.47
3:k:1117:HIS:CG	3:k:1118:PRO:HD2	2.50	0.47
4:l:1291:SER:HA	4:l:1315:ASP:CA	2.44	0.47
5:m:1477:ASP:C	5:m:1480:PRO:HD2	2.39	0.47
6:n:1086:ILE:HG23	6:n:1087:THR:HG23	1.96	0.47
6:n:1454:ILE:N	6:n:1455:PRO:HD2	2.29	0.47
6:n:1486:THR:O	6:n:1487:ARG:CB	2.62	0.47
7:o:1097:GLY:O	7:o:1101:VAL:HG23	2.14	0.47
7:o:1117:GLU:CD	7:o:1117:GLU:N	2.73	0.47
1:A:178:ASN:HD21	1:A:182:ASP:CG	2.23	0.47
2:B:102:LEU:HD23	2:B:102:LEU:C	2.39	0.47
2:B:124:TYR:N	2:B:124:TYR:CD1	2.82	0.47
2:B:142:ASN:CB	2:B:143:SER:HA	2.18	0.47
2:B:463:ILE:HD11	2:B:468:SER:OG	2.15	0.47
3:C:108:ALA:O	3:C:112:ILE:HG23	2.15	0.47
3:C:112:ILE:HG13	3:C:113:GLU:N	2.29	0.47
3:C:117:HIS:CG	3:C:118:PRO:HD2	2.50	0.47
3:C:174:LEU:HG	3:C:219:VAL:HG22	1.96	0.47
4:D:24:ASN:ND2	4:D:524:ILE:HD11	2.29	0.47
4:D:72:HIS:CD2	8:H:15:LYS:HZ2	2.33	0.47
4:D:350:VAL:HG22	4:D:363:VAL:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:352:GLU:HA	4:D:361:VAL:HA	1.95	0.47
4:D:521:ILE:CB	7:G:50:ASP:O	2.61	0.47
5:E:88:ALA:HB1	5:E:109:LYS:HZ2	1.77	0.47
6:F:3:LEU:N	6:F:3:LEU:HD22	2.30	0.47
6:F:86:ILE:HG23	6:F:87:THR:HG23	1.96	0.47
6:F:424:ARG:HE	6:F:424:ARG:CA	2.17	0.47
6:F:485:GLU:CG	6:F:489:VAL:HB	2.44	0.47
7:G:204:ILE:O	7:G:379:ARG:HD3	2.14	0.47
7:G:217:GLY:HA3	7:G:366:GLN:HA	1.95	0.47
7:G:279:PHE:O	7:G:282:LEU:HD12	2.15	0.47
7:G:292:ILE:N	7:G:312:ILE:HG13	2.30	0.47
8:H:35:ILE:HD13	8:H:82:VAL:HA	1.95	0.47
8:H:99:GLY:O	8:H:103:VAL:HG23	2.15	0.47
8:H:396:ASP:HA	8:H:399:ARG:HH11	1.79	0.47
1:I:156:LEU:HD23	1:I:156:LEU:O	2.14	0.47
1:I:178:ASN:HD21	1:I:182:ASP:CG	2.23	0.47
1:I:476:LYS:C	1:I:509:ILE:HD11	2.40	0.47
2:J:3:VAL:HB	2:J:4:GLN:CD	2.40	0.47
2:J:60:GLY:O	2:J:63:ILE:HG22	2.15	0.47
2:J:403:GLY:O	2:J:482:MET:HG3	2.14	0.47
2:J:463:ILE:HD11	2:J:468:SER:OG	2.15	0.47
3:K:25:ILE:HD13	3:K:26:THR:N	2.30	0.47
3:K:142:PRO:HG3	3:K:411:SER:CA	2.44	0.47
3:K:175:ALA:O	3:K:179:VAL:HG23	2.14	0.47
3:K:457:ILE:HG22	3:K:462:GLY:O	2.14	0.47
4:L:436:GLN:H	4:L:436:GLN:CD	2.22	0.47
5:M:127:SER:O	5:M:128:ALA:C	2.57	0.47
5:M:477:ASP:C	5:M:480:PRO:HD2	2.39	0.47
6:N:3:LEU:N	6:N:3:LEU:HD22	2.30	0.47
6:N:5:LEU:HB3	6:N:6:LEU:C	2.39	0.47
6:N:22:ASN:O	6:N:72:THR:HG21	2.14	0.47
6:N:430:ASN:C	6:N:432:ASN:H	2.22	0.47
7:O:51:ILE:HB	7:O:69:ILE:HD11	1.96	0.47
1:a:1014:PHE:CB	1:a:1015:LEU:HA	2.43	0.47
1:a:1156:LEU:HD23	1:a:1156:LEU:O	2.14	0.47
2:b:1289:LEU:HD21	2:b:1304:ASN:OD1	2.15	0.47
2:b:1463:ILE:HD11	2:b:1468:SER:OG	2.15	0.47
3:c:1115:ASN:CB	1:i:1470:SER:H	2.28	0.47
3:c:1170:LYS:HD3	3:c:1170:LYS:O	2.14	0.47
3:c:1230:VAL:HG21	3:c:1303:ASP:H	1.80	0.47
3:c:1318:ARG:O	3:c:1319:ARG:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1008:ASN:OD1	4:d:1008:ASN:O	2.31	0.47
4:d:1436:GLN:H	4:d:1436:GLN:CD	2.22	0.47
5:e:1351:LEU:HD22	5:e:1352:GLU:N	2.29	0.47
5:e:1450:MET:HE3	5:e:1454:VAL:CG2	2.45	0.47
6:f:1081:ALA:O	6:f:1082:ALA:C	2.57	0.47
6:f:1143:LEU:HD21	6:f:1145:ASN:HB3	1.97	0.47
6:f:1415:ALA:HA	9:f:1601:ADP:H1'	1.95	0.47
7:g:1060:THR:HG23	7:g:1060:THR:O	2.15	0.47
7:g:1083:LEU:HD23	7:g:1086:ILE:CD1	2.44	0.47
7:g:1455:GLU:N	7:g:1461:ALA:HB2	2.29	0.47
1:i:1014:PHE:CB	1:i:1015:LEU:HA	2.43	0.47
1:i:1047:VAL:HG13	7:o:1123:HIS:NE2	2.29	0.47
1:i:1273:ILE:HG23	5:m:1292:VAL:HB	1.96	0.47
1:i:1480:TYR:O	1:i:1483:ALA:CB	2.63	0.47
2:j:1003:VAL:HB	2:j:1004:GLN:CD	2.40	0.47
2:j:1060:GLY:O	2:j:1063:ILE:HG22	2.15	0.47
2:j:1083:VAL:HG13	3:k:1211:GLY:HA2	1.96	0.47
2:j:1124:TYR:N	2:j:1124:TYR:CD1	2.82	0.47
2:j:1282:ASN:ND2	2:j:1303:ILE:HB	2.29	0.47
2:j:1438:ARG:O	2:j:1441:PRO:HG2	2.14	0.47
3:k:1025:ILE:HD13	3:k:1026:THR:N	2.30	0.47
3:k:1162:LYS:C	3:k:1164:VAL:H	2.22	0.47
3:k:1318:ARG:O	3:k:1319:ARG:C	2.56	0.47
4:l:1081:VAL:HA	7:o:1382:ALA:HB2	1.97	0.47
6:n:1003:LEU:N	6:n:1003:LEU:HD22	2.30	0.47
6:n:1182:TYR:C	6:n:1184:ALA:N	2.73	0.47
6:n:1224:MET:HE1	6:n:1316:ALA:N	2.16	0.47
6:n:1429:ALA:O	6:n:1433:LYS:HD3	2.14	0.47
6:n:1430:ASN:HA	6:n:1433:LYS:HB2	1.96	0.47
7:o:1017:THR:HG22	7:o:1526:ASN:HD22	1.80	0.47
7:o:1144:ALA:HA	7:o:1409:ILE:O	2.15	0.47
7:o:1208:ALA:O	7:o:1211:GLU:HB2	2.14	0.47
7:o:1214:PHE:O	7:o:1214:PHE:CG	2.67	0.47
7:o:1292:ILE:N	7:o:1312:ILE:HG13	2.30	0.47
8:p:1006:PRO:CB	8:p:1007:GLN:HG3	2.38	0.47
8:p:1184:GLU:O	8:p:1188:HIS:HD2	1.97	0.47
2:B:3:VAL:HB	2:B:4:GLN:CD	2.40	0.47
2:B:162:SER:O	2:B:163:SER:OG	2.30	0.47
2:B:232:LEU:HD22	2:B:233:ILE:H	1.80	0.47
2:B:328:THR:O	2:B:329:PHE:CB	2.62	0.47
3:C:25:ILE:HD13	3:C:26:THR:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:41:PRO:CA	3:C:161:THR:HG21	2.43	0.47
3:C:262:GLU:H	8:H:266:LEU:CD1	2.28	0.47
5:E:84:THR:CG2	5:E:85:ASN:N	2.78	0.47
5:E:176:PHE:O	5:E:180:LEU:HD23	2.15	0.47
5:E:450:MET:HE3	5:E:454:VAL:CG2	2.45	0.47
5:E:477:ASP:C	5:E:480:PRO:HD2	2.39	0.47
7:G:409:ILE:CG2	7:G:410:VAL:H	2.28	0.47
3:K:9:ASN:ND2	3:K:10:ALA:H	2.11	0.47
3:K:117:HIS:CG	3:K:118:PRO:HD2	2.50	0.47
5:M:428:CYS:O	5:M:431:ARG:HG3	2.14	0.47
5:M:547:MET:SD	6:N:387:ALA:HA	2.55	0.47
6:N:16:ASP:OD1	6:N:16:ASP:N	2.36	0.47
6:N:76:ILE:HG21	6:N:95:VAL:HG13	1.96	0.47
6:N:224:MET:HE1	6:N:316:ALA:N	2.16	0.47
6:N:224:MET:HE2	6:N:315:LEU:HA	1.96	0.47
6:N:353:LEU:HB2	6:N:368:THR:HG1	1.80	0.47
7:O:94:VAL:CG1	7:O:95:GLY:H	2.28	0.47
7:O:217:GLY:HA3	7:O:365:PHE:O	2.15	0.47
7:O:455:GLU:N	7:O:461:ALA:HB2	2.29	0.47
3:c:1225:LEU:HD13	3:c:1320:VAL:HG11	1.96	0.47
3:c:1268:ASP:O	3:c:1272:ILE:HG12	2.14	0.47
4:d:1066:LYS:HA	4:d:1066:LYS:HD2	1.62	0.47
8:h:1442:PRO:HA	8:h:1446:GLN:HE21	1.80	0.47
1:i:1128:GLY:O	1:i:1448:ILE:HD13	2.15	0.47
1:i:1336:THR:HB	1:i:1354:TYR:HD1	1.80	0.47
2:j:1040:LYS:NZ	6:n:1117:ILE:HG13	2.29	0.47
2:j:1328:THR:O	2:j:1329:PHE:CB	2.62	0.47
2:j:1469:THR:CG2	2:j:1481:ASP:HB2	2.44	0.47
3:k:1175:ALA:O	3:k:1179:VAL:HG23	2.15	0.47
4:l:1254:VAL:HG21	8:p:1265:VAL:HG22	1.96	0.47
5:m:1127:SER:O	5:m:1128:ALA:C	2.57	0.47
5:m:1301:TYR:HA	5:m:1304:ASP:OD2	2.15	0.47
5:m:1527:VAL:HG13	9:m:1601:ADP:HN61	1.78	0.47
6:n:1056:THR:HB	6:n:1390:GLN:HE22	1.79	0.47
6:n:1081:ALA:O	6:n:1082:ALA:C	2.57	0.47
6:n:1138:ILE:O	6:n:1138:ILE:CG2	2.58	0.47
6:n:1243:GLU:OE2	6:n:1243:GLU:CA	2.52	0.47
6:n:1430:ASN:C	6:n:1432:ASN:H	2.22	0.47
7:o:1060:THR:HG23	7:o:1060:THR:O	2.15	0.47
7:o:1115:PHE:CE1	7:o:1437:MET:HB3	2.49	0.47
7:o:1204:ILE:O	7:o:1379:ARG:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:1099:GLY:O	8:p:1103:VAL:HG23	2.15	0.47
1:A:12:THR:CB	5:E:96:LEU:HA	2.44	0.47
1:A:480:TYR:O	1:A:483:ALA:CB	2.63	0.47
2:B:42:MET:HE3	2:B:42:MET:HA	1.96	0.47
2:B:403:GLY:O	2:B:482:MET:HG3	2.14	0.47
3:C:142:PRO:HG3	3:C:411:SER:CA	2.44	0.47
3:C:202:ARG:O	3:C:204:VAL:O	2.32	0.47
3:C:348:VAL:HG12	3:C:349:GLY:N	2.30	0.47
4:D:70:ILE:HA	8:H:15:LYS:HZ3	1.79	0.47
4:D:178:VAL:CB	4:D:401:ILE:HD11	2.45	0.47
6:F:430:ASN:HA	6:F:433:LYS:HB2	1.96	0.47
6:F:454:ILE:HB	6:F:455:PRO:HD3	1.97	0.47
2:J:324:GLU:H	3:K:311:LYS:NZ	2.12	0.47
2:J:494:LYS:HD2	2:J:494:LYS:HA	1.79	0.47
3:K:112:ILE:HG13	3:K:113:GLU:N	2.29	0.47
3:K:246:LEU:O	3:K:247:ASP:HB3	2.15	0.47
3:K:348:VAL:HG12	3:K:349:GLY:N	2.30	0.47
4:L:92:GLY:O	4:L:96:VAL:HG23	2.15	0.47
4:L:134:ILE:HD12	4:L:421:ILE:HD13	1.95	0.47
4:L:174:ALA:O	4:L:178:VAL:HG23	2.13	0.47
4:L:352:GLU:HA	4:L:361:VAL:HA	1.95	0.47
4:L:461:ASN:HD22	4:L:462:SER:N	2.13	0.47
4:L:523:ASP:O	7:O:51:ILE:CG2	2.53	0.47
5:M:277:GLU:CB	5:M:278:PRO:HD2	2.44	0.47
5:M:450:MET:HE3	5:M:454:VAL:CG2	2.45	0.47
7:O:455:GLU:HG3	7:O:461:ALA:HB3	1.97	0.47
8:P:35:ILE:HD13	8:P:82:VAL:HA	1.95	0.47
8:P:99:GLY:O	8:P:103:VAL:HG23	2.15	0.47
1:a:1128:GLY:O	1:a:1448:ILE:HD13	2.15	0.47
2:b:1045:LEU:HD12	6:f:1533:LEU:HD13	1.97	0.47
2:b:1348:LEU:HD21	6:f:1086:ILE:O	2.15	0.47
2:b:1403:GLY:O	2:b:1482:MET:HG3	2.14	0.47
3:c:1047:MET:HG2	3:c:1048:LEU:N	2.30	0.47
3:c:1112:ILE:HG13	3:c:1113:GLU:N	2.29	0.47
4:d:1461:ASN:HD22	4:d:1462:SER:N	2.13	0.47
5:e:1034:ASP:C	6:n:1117:ILE:HD12	2.40	0.47
5:e:1176:PHE:O	5:e:1180:LEU:HD23	2.15	0.47
5:e:1297:LYS:HD2	5:e:1297:LYS:HA	1.66	0.47
6:f:1454:ILE:N	6:f:1455:PRO:HD2	2.29	0.47
7:g:1500:ALA:O	7:g:1504:ILE:HG13	2.14	0.47
6:n:1538:ARG:CG	6:n:1538:ARG:NH1	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:VAL:C	2:B:33:VAL:CG2	2.88	0.47
2:B:165:ILE:HD13	6:F:526:ASN:HB2	1.97	0.47
2:B:438:ARG:O	2:B:441:PRO:HG2	2.14	0.47
3:C:275:ILE:O	8:H:274:LEU:HD21	2.15	0.47
4:D:292:ILE:N	4:D:293:LEU:CA	2.73	0.47
4:D:434:GLY:HA3	4:D:436:GLN:OE1	2.14	0.47
5:E:240:ILE:HG12	5:E:244:ILE:HG21	1.94	0.47
5:E:262:GLU:HA	5:E:263:GLY:HA2	1.67	0.47
6:F:141:THR:CB	6:F:409:LYS:HG3	2.45	0.47
7:G:217:GLY:HA3	7:G:365:PHE:O	2.15	0.47
8:H:6:PRO:CB	8:H:7:GLN:HG3	2.38	0.47
1:I:29:ASN:HD22	1:I:538:ILE:HG23	1.80	0.47
1:I:419:VAL:CG1	1:I:425:VAL:HG21	2.44	0.47
2:J:263:LYS:HZ1	3:K:266:GLU:CG	2.26	0.47
2:J:477:GLY:O	2:J:478:THR:CB	2.62	0.47
5:M:210:ASN:HD22	5:M:210:ASN:N	2.08	0.47
7:O:279:PHE:O	7:O:282:LEU:HD12	2.15	0.47
7:O:354:GLU:HA	7:O:363:ASN:HA	1.97	0.47
1:a:1476:LYS:C	1:a:1509:ILE:HD11	2.40	0.47
2:b:1186:GLY:HA2	2:b:1187:SER:HA	1.47	0.47
3:c:1246:LEU:O	3:c:1247:ASP:HB3	2.15	0.47
4:d:1434:GLY:HA3	4:d:1436:GLN:OE1	2.14	0.47
5:e:1032:VAL:CG2	5:e:1033:LYS:H	2.15	0.47
5:e:1301:TYR:HA	5:e:1304:ASP:OD2	2.15	0.47
6:f:1352:GLY:C	6:f:1367:VAL:HG12	2.40	0.47
7:g:1279:PHE:O	7:g:1282:LEU:HD12	2.15	0.47
8:h:1184:GLU:O	8:h:1188:HIS:HD2	1.97	0.47
1:i:1069:ILE:O	1:i:1073:LEU:HD13	2.15	0.47
1:i:1145:SER:O	1:i:1148:VAL:HG23	2.15	0.47
1:i:1476:LYS:C	1:i:1509:ILE:HD11	2.40	0.47
3:k:1457:ILE:HG22	3:k:1462:GLY:O	2.14	0.47
4:l:1436:GLN:H	4:l:1436:GLN:CD	2.22	0.47
5:m:1277:GLU:CB	5:m:1278:PRO:HD2	2.44	0.47
5:m:1346:VAL:O	5:m:1347:GLY:C	2.57	0.47
6:n:1166:LEU:HG	6:n:1167:THR:OG1	2.15	0.47
7:o:1279:PHE:O	7:o:1282:LEU:HD12	2.15	0.47
7:o:1354:GLU:HA	7:o:1363:ASN:HA	1.97	0.47
7:o:1455:GLU:HG3	7:o:1461:ALA:HB3	1.96	0.47
8:p:1237:LYS:HB3	8:p:1314:ASN:HB3	1.63	0.47
1:A:16:GLY:CA	1:A:548:ASP:HB3	2.44	0.46
1:A:128:GLY:O	1:A:448:ILE:HD13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:145:SER:O	1:A:148:VAL:HG23	2.15	0.46
4:D:496:HIS:O	4:D:498:LEU:HD12	2.15	0.46
4:D:521:ILE:CD1	7:G:62:ILE:HD12	2.44	0.46
6:F:395:VAL:O	6:F:399:LEU:HB3	2.14	0.46
7:G:17:THR:HG22	7:G:526:ASN:HD22	1.80	0.46
7:G:115:PHE:CE1	7:G:437:MET:HB3	2.49	0.46
7:G:354:GLU:HA	7:G:363:ASN:HA	1.97	0.46
8:H:442:PRO:HA	8:H:446:GLN:HE21	1.80	0.46
1:I:54:VAL:C	1:I:56:ASP:H	2.23	0.46
1:I:480:TYR:O	1:I:483:ALA:CB	2.63	0.46
2:J:30:GLY:HA2	2:J:33:VAL:HG21	1.97	0.46
2:J:459:LEU:HD11	2:J:471:GLY:C	2.40	0.46
3:K:202:ARG:O	3:K:204:VAL:O	2.32	0.46
5:M:84:THR:CG2	5:M:85:ASN:N	2.78	0.46
5:M:346:VAL:O	5:M:347:GLY:C	2.57	0.46
7:O:204:ILE:O	7:O:379:ARG:HD3	2.14	0.46
7:O:235:LYS:CB	7:O:353:GLU:HA	2.44	0.46
1:a:1016:GLY:HA3	1:a:1548:ASP:CB	2.45	0.46
2:b:1088:VAL:CG1	2:b:1393:GLN:HE22	2.22	0.46
3:c:1430:LYS:O	3:c:1433:GLN:CG	2.57	0.46
4:d:1209:MET:HE1	4:d:1375:VAL:HG11	1.97	0.46
4:d:1292:ILE:N	4:d:1293:LEU:CA	2.73	0.46
5:e:1038:LYS:HD2	5:e:1038:LYS:HA	1.70	0.46
6:f:1005:LEU:HB3	6:f:1006:LEU:C	2.39	0.46
6:f:1166:LEU:HG	6:f:1167:THR:OG1	2.15	0.46
6:f:1221:HIS:HB2	6:f:1224:MET:CG	2.43	0.46
6:f:1454:ILE:HB	6:f:1455:PRO:HD3	1.97	0.46
8:h:1099:GLY:O	8:h:1103:VAL:HG23	2.15	0.46
2:j:1162:SER:O	2:j:1163:SER:CB	2.63	0.46
3:k:1142:PRO:HB3	3:k:1410:PRO:O	2.15	0.46
6:n:1016:ASP:O	6:n:1020:LYS:N	2.46	0.46
6:n:1022:ASN:O	6:n:1072:THR:HG21	2.14	0.46
6:n:1213:LEU:HD23	6:n:1377:THR:CG2	2.40	0.46
7:o:1170:LEU:O	7:o:1170:LEU:CD2	2.58	0.46
7:o:1217:GLY:O	7:o:1375:THR:HG22	2.15	0.46
7:o:1452:GLN:HA	7:o:1455:GLU:HB2	1.96	0.46
1:A:16:GLY:HA3	1:A:548:ASP:CB	2.44	0.46
1:A:143:VAL:HG12	1:A:419:VAL:HG22	1.97	0.46
2:B:26:ALA:HB1	2:B:77:LEU:HD11	1.98	0.46
2:B:444:LEU:HD21	9:B:601:ADP:C1'	2.46	0.46
2:B:513:ASN:O	2:B:514:ILE:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:175:ALA:O	3:C:179:VAL:HG23	2.15	0.46
3:C:250:LEU:CG	3:C:301:VAL:CB	2.92	0.46
5:E:103:LEU:HA	5:E:106:GLN:HE21	1.81	0.46
5:E:301:TYR:HA	5:E:304:ASP:OD2	2.15	0.46
6:F:76:ILE:HG21	6:F:95:VAL:HG13	1.96	0.46
6:F:332:THR:HB	6:F:350:PHE:O	2.15	0.46
6:F:332:THR:O	6:F:333:GLY:C	2.58	0.46
6:F:422:LEU:HD13	6:F:517:ILE:HD11	1.98	0.46
6:F:454:ILE:N	6:F:455:PRO:HD2	2.29	0.46
7:G:304:THR:HA	7:G:307:PHE:CE2	2.46	0.46
3:K:202:ARG:HH21	3:K:323:SER:HB3	1.81	0.46
3:K:229:VAL:HG12	3:K:230:VAL:H	1.80	0.46
4:L:194:ILE:O	4:L:194:ILE:HG12	2.15	0.46
5:M:35:GLN:CD	5:M:36:GLY:CA	2.86	0.46
5:M:176:PHE:O	5:M:180:LEU:HD23	2.15	0.46
6:N:143:LEU:HD21	6:N:145:ASN:HB3	1.97	0.46
7:O:60:THR:O	7:O:60:THR:HG23	2.15	0.46
7:O:83:LEU:HD23	7:O:86:ILE:CD1	2.45	0.46
7:O:208:ALA:O	7:O:211:GLU:HB2	2.14	0.46
8:P:167:ILE:HD11	8:P:182:VAL:HG21	1.96	0.46
1:a:1419:VAL:CG1	1:a:1425:VAL:HG21	2.44	0.46
2:b:1162:SER:O	2:b:1163:SER:OG	2.30	0.46
2:b:1232:LEU:HD22	2:b:1233:ILE:H	1.80	0.46
2:b:1513:ASN:C	2:b:1514:ILE:HD13	2.36	0.46
4:d:1263:ILE:C	4:d:1265:LYS:H	2.23	0.46
4:d:1284:ASN:O	4:d:1310:ILE:CG2	2.63	0.46
6:f:1233:VAL:HG13	6:f:1351:SER:CB	2.43	0.46
6:f:1429:ALA:O	6:f:1433:LYS:HD3	2.14	0.46
7:g:1117:GLU:CD	7:g:1117:GLU:N	2.73	0.46
1:i:1256:MET:H	7:o:1255:ASP:CB	2.29	0.46
3:k:1170:LYS:HD3	3:k:1170:LYS:O	2.14	0.46
3:k:1174:LEU:HG	3:k:1219:VAL:HG22	1.96	0.46
4:l:1461:ASN:HD22	4:l:1462:SER:N	2.13	0.46
5:m:1035:GLN:CD	5:m:1036:GLY:CA	2.86	0.46
5:m:1150:PHE:CD1	5:m:1472:PHE:CE2	3.03	0.46
6:n:1409:LYS:HD3	6:n:1409:LYS:N	2.16	0.46
6:n:1458:LEU:HG	6:n:1459:VAL:HG23	1.97	0.46
7:o:1528:GLY:HA3	7:o:1529:SER:C	2.41	0.46
1:A:54:VAL:C	1:A:56:ASP:H	2.23	0.46
1:A:118:ASN:C	1:A:119:LYS:CD	2.88	0.46
2:B:459:LEU:HD11	2:B:471:GLY:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:469:THR:CG2	2:B:481:ASP:HB2	2.44	0.46
3:C:170:LYS:HD3	3:C:170:LYS:O	2.14	0.46
5:E:314:LYS:HZ1	5:E:338:ASN:HA	1.81	0.46
6:F:362:GLU:CG	6:F:364:PHE:CE2	2.93	0.46
7:G:507:LEU:C	7:G:507:LEU:HD13	2.40	0.46
7:G:528:GLY:HA3	7:G:529:SER:C	2.41	0.46
8:H:32:ILE:HD11	8:H:111:LEU:C	2.41	0.46
8:H:184:GLU:O	8:H:188:HIS:HD2	1.97	0.46
2:J:124:TYR:N	2:J:124:TYR:HD1	2.12	0.46
4:L:147:ARG:O	4:L:151:VAL:HG23	2.16	0.46
4:L:178:VAL:CB	4:L:401:ILE:HD11	2.45	0.46
5:M:114:GLU:HB3	6:N:201:HIS:CE1	2.50	0.46
5:M:301:TYR:HA	5:M:304:ASP:OD2	2.15	0.46
6:N:16:ASP:HA	6:N:19:LEU:CG	2.45	0.46
6:N:166:LEU:HG	6:N:167:THR:OG1	2.15	0.46
6:N:427:ARG:HG2	6:N:448:ALA:CB	2.46	0.46
6:N:454:ILE:HB	6:N:455:PRO:HD3	1.97	0.46
7:O:292:ILE:N	7:O:312:ILE:HG13	2.30	0.46
8:P:32:ILE:HD11	8:P:111:LEU:C	2.41	0.46
8:P:442:PRO:HA	8:P:446:GLN:HE21	1.80	0.46
3:c:1457:ILE:HG22	3:c:1462:GLY:O	2.14	0.46
4:d:1496:HIS:O	4:d:1498:LEU:HD12	2.15	0.46
5:e:1277:GLU:CB	5:e:1278:PRO:HD2	2.44	0.46
6:f:1003:LEU:N	6:f:1003:LEU:HD22	2.30	0.46
6:f:1016:ASP:HA	6:f:1019:LEU:CG	2.45	0.46
7:g:1204:ILE:O	7:g:1379:ARG:HD3	2.14	0.46
7:g:1491:ASN:OD1	7:g:1496:VAL:CG2	2.64	0.46
8:h:1032:ILE:O	8:h:1032:ILE:HD13	2.16	0.46
8:h:1032:ILE:HD11	8:h:1111:LEU:C	2.41	0.46
1:i:1016:GLY:CA	1:i:1548:ASP:HB3	2.44	0.46
1:i:1118:ASN:C	1:i:1119:LYS:CD	2.88	0.46
1:i:1419:VAL:CG1	1:i:1425:VAL:HG21	2.44	0.46
2:j:1030:GLY:CA	2:j:1033:VAL:CG2	2.86	0.46
2:j:1463:ILE:HD11	2:j:1468:SER:OG	2.15	0.46
3:k:1229:VAL:HG12	3:k:1230:VAL:H	1.80	0.46
3:k:1237:HIS:C	3:k:1238:ILE:HG13	2.40	0.46
4:l:1178:VAL:CB	4:l:1401:ILE:HD11	2.46	0.46
4:l:1234:ILE:HG22	4:l:1236:LEU:HD22	1.97	0.46
5:m:1038:LYS:HD2	5:m:1038:LYS:HA	1.70	0.46
5:m:1423:LEU:C	5:m:1425:ASP:N	2.73	0.46
6:n:1454:ILE:HB	6:n:1455:PRO:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1236:PHE:O	7:o:1239:PRO:CG	2.64	0.46
8:p:1291:ILE:HD12	8:p:1347:PRO:HG2	1.96	0.46
1:A:476:LYS:C	1:A:509:ILE:HD11	2.40	0.46
2:B:242:LYS:HA	3:C:269:TRP:HE1	1.81	0.46
2:B:360:LYS:HA	2:B:361:ALA:HA	1.69	0.46
2:B:477:GLY:O	2:B:478:THR:CB	2.62	0.46
4:D:92:GLY:O	4:D:96:VAL:HG23	2.15	0.46
4:D:134:ILE:HD12	4:D:421:ILE:HD13	1.95	0.46
9:D:601:ADP:C8	9:D:601:ADP:C3'	2.98	0.46
6:F:16:ASP:HA	6:F:19:LEU:CG	2.45	0.46
6:F:370:ASN:HD22	6:F:370:ASN:N	2.14	0.46
7:G:51:ILE:HB	7:G:69:ILE:HD11	1.96	0.46
7:G:144:ALA:HA	7:G:409:ILE:O	2.14	0.46
1:I:92:ARG:HG2	5:M:388:THR:CB	2.46	0.46
2:J:162:SER:O	2:J:163:SER:CB	2.64	0.46
2:J:165:ILE:HD13	6:N:526:ASN:HB2	1.98	0.46
2:J:328:THR:O	2:J:329:PHE:CB	2.62	0.46
4:L:254:VAL:HG22	8:P:264:THR:O	2.16	0.46
5:M:114:GLU:HG2	6:N:201:HIS:ND1	2.31	0.46
7:O:80:ALA:O	7:O:84:VAL:HG23	2.16	0.46
7:O:217:GLY:O	7:O:375:THR:HG22	2.15	0.46
8:P:164:LYS:HB3	8:P:165:PRO:HD3	1.96	0.46
8:P:487:PRO:HA	8:P:488:GLY:HA3	1.69	0.46
2:b:1026:ALA:HB1	2:b:1077:LEU:HD11	1.98	0.46
2:b:1224:LYS:O	2:b:1343:ILE:HA	2.16	0.46
2:b:1459:LEU:HD11	2:b:1471:GLY:C	2.40	0.46
3:c:1025:ILE:HD13	3:c:1026:THR:N	2.30	0.46
3:c:1117:HIS:CG	3:c:1118:PRO:HD2	2.50	0.46
3:c:1512:THR:HG23	8:h:1389:ALA:CB	2.44	0.46
4:d:1092:GLY:O	4:d:1096:VAL:HG23	2.15	0.46
4:d:1234:ILE:HG22	4:d:1236:LEU:HD22	1.97	0.46
5:e:1150:PHE:CD1	5:e:1472:PHE:CE2	3.03	0.46
5:e:1477:ASP:C	5:e:1480:PRO:HD2	2.39	0.46
6:f:1108:PHE:CE1	6:f:1118:ILE:HG13	2.50	0.46
6:f:1332:THR:HB	6:f:1350:PHE:O	2.15	0.46
6:f:1332:THR:HB	6:f:1351:SER:HA	1.96	0.46
6:f:1422:LEU:HD13	6:f:1517:ILE:HD11	1.98	0.46
7:g:1316:GLY:O	7:g:1317:ARG:CB	2.52	0.46
7:g:1329:ALA:HA	7:g:1371:ALA:HB1	1.98	0.46
7:g:1507:LEU:C	7:g:1507:LEU:HD13	2.40	0.46
8:h:1487:PRO:HA	8:h:1488:GLY:HA3	1.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1467:ILE:HA	2:j:1468:SER:HA	1.59	0.46
3:k:1268:ASP:O	3:k:1272:ILE:HG12	2.14	0.46
4:l:1092:GLY:O	4:l:1096:VAL:HG23	2.15	0.46
4:l:1134:ILE:HD12	4:l:1421:ILE:HD13	1.95	0.46
4:l:1194:ILE:O	4:l:1194:ILE:HG12	2.15	0.46
4:l:1496:HIS:O	4:l:1498:LEU:HD12	2.15	0.46
5:m:1084:THR:HG22	5:m:1085:ASN:N	2.31	0.46
6:n:1332:THR:O	6:n:1333:GLY:C	2.58	0.46
7:o:1217:GLY:HA3	7:o:1365:PHE:O	2.15	0.46
7:o:1409:ILE:CG2	7:o:1410:VAL:H	2.28	0.46
8:p:1167:ILE:HD11	8:p:1182:VAL:HG21	1.96	0.46
4:D:209:MET:HE1	4:D:375:VAL:HG11	1.97	0.46
4:D:234:ILE:HG22	4:D:236:LEU:HD22	1.97	0.46
4:D:461:ASN:HD22	4:D:462:SER:N	2.13	0.46
4:D:521:ILE:HG23	7:G:50:ASP:C	2.40	0.46
7:G:80:ALA:O	7:G:84:VAL:HG23	2.16	0.46
7:G:83:LEU:HD23	7:G:86:ILE:CD1	2.45	0.46
7:G:454:CYS:HB3	7:G:461:ALA:HA	1.98	0.46
8:H:32:ILE:HD13	8:H:32:ILE:O	2.16	0.46
2:J:164:LYS:O	2:J:167:SER:N	2.40	0.46
2:J:331:GLU:HA	2:J:332:PRO:HD3	1.79	0.46
3:K:47:MET:HG2	3:K:48:LEU:N	2.30	0.46
3:K:51:PRO:O	3:K:52:MET:CG	2.63	0.46
3:K:402:VAL:HG13	3:K:502:PRO:CG	2.45	0.46
4:L:263:ILE:C	4:L:265:LYS:H	2.23	0.46
4:L:284:ASN:O	4:L:310:ILE:CG2	2.63	0.46
4:L:305:LEU:C	4:L:305:LEU:HD23	2.41	0.46
5:M:74:LEU:HD12	5:M:93:GLN:HB3	1.96	0.46
6:N:539:SER:O	6:N:540:THR:C	2.58	0.46
7:O:236:PHE:O	7:O:239:PRO:CG	2.64	0.46
7:O:454:CYS:HB3	7:O:461:ALA:HA	1.98	0.46
7:O:507:LEU:C	7:O:507:LEU:HD13	2.40	0.46
8:P:6:PRO:CB	8:P:7:GLN:CA	2.93	0.46
8:P:184:GLU:O	8:P:188:HIS:HD2	1.97	0.46
1:a:1480:TYR:O	1:a:1483:ALA:CB	2.63	0.46
3:c:1108:ALA:O	3:c:1112:ILE:HG23	2.15	0.46
3:c:1129:LEU:HD23	3:c:1510:VAL:HG12	1.96	0.46
3:c:1202:ARG:HH21	3:c:1323:SER:HB3	1.81	0.46
3:c:1348:VAL:HG12	3:c:1349:GLY:N	2.30	0.46
4:d:1178:VAL:CB	4:d:1401:ILE:HD11	2.45	0.46
5:e:1084:THR:CG2	5:e:1085:ASN:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1103:LEU:HA	5:e:1106:GLN:HE21	1.81	0.46
5:e:1133:ALA:HB2	5:e:1150:PHE:HE2	1.79	0.46
6:f:1330:LEU:O	6:f:1372:ASP:O	2.34	0.46
7:g:1033:CYS:SG	7:g:1106:GLY:HA2	2.56	0.46
7:g:1354:GLU:HA	7:g:1363:ASN:HA	1.97	0.46
8:h:1167:ILE:HD11	8:h:1182:VAL:HG21	1.96	0.46
2:j:1142:ASN:CB	2:j:1143:SER:HA	2.18	0.46
2:j:1237:THR:N	2:j:1287:ARG:HD2	2.28	0.46
2:j:1289:LEU:HD21	2:j:1304:ASN:OD1	2.15	0.46
3:k:1246:LEU:O	3:k:1247:ASP:HB3	2.15	0.46
4:l:1241:ILE:HD12	4:l:1241:ILE:N	2.30	0.46
4:l:1284:ASN:O	4:l:1310:ILE:CG2	2.63	0.46
5:m:1297:LYS:HD2	5:m:1297:LYS:HA	1.66	0.46
6:n:1422:LEU:HD13	6:n:1517:ILE:HD11	1.98	0.46
7:o:1080:ALA:O	7:o:1084:VAL:HG23	2.16	0.46
1:A:29:ASN:HD22	1:A:538:ILE:HG23	1.81	0.46
2:B:224:LYS:O	2:B:343:ILE:HA	2.16	0.46
2:B:286:ASN:HD22	2:B:287:ARG:N	2.14	0.46
3:C:229:VAL:HG12	3:C:230:VAL:H	1.80	0.46
4:D:291:SER:HA	4:D:315:ASP:CA	2.44	0.46
6:F:166:LEU:HG	6:F:167:THR:OG1	2.15	0.46
6:F:343:LEU:HA	6:F:344:SER:HA	1.48	0.46
6:F:420:ILE:HB	6:F:482:ASP:OD1	2.16	0.46
2:J:42:MET:HE3	2:J:42:MET:HA	1.97	0.46
2:J:324:GLU:H	3:K:311:LYS:HZ1	1.62	0.46
2:J:409:MET:HA	2:J:409:MET:CE	2.38	0.46
2:J:411:MET:CE	2:J:498:VAL:HG21	2.45	0.46
4:L:77:MET:CE	7:O:384:GLN:HB2	2.45	0.46
4:L:496:HIS:O	4:L:498:LEU:HD12	2.15	0.46
5:M:423:LEU:C	5:M:425:ASP:N	2.73	0.46
6:N:5:LEU:CA	6:N:6:LEU:HB2	2.35	0.46
6:N:28:GLY:C	6:N:30:GLN:H	2.22	0.46
7:O:17:THR:HG22	7:O:526:ASN:HD22	1.80	0.46
7:O:144:ALA:HA	7:O:409:ILE:O	2.15	0.46
7:O:200:GLY:O	7:O:375:THR:HA	2.16	0.46
2:b:1045:LEU:HB2	6:f:1533:LEU:HB2	1.97	0.46
2:b:1060:GLY:O	2:b:1063:ILE:HG22	2.15	0.46
2:b:1124:TYR:N	2:b:1124:TYR:HD1	2.12	0.46
2:b:1197:LYS:C	2:b:1198:ILE:HD12	2.41	0.46
3:c:1142:PRO:HB3	3:c:1410:PRO:O	2.15	0.46
4:d:1305:LEU:HD23	4:d:1305:LEU:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1485:ARG:H	4:d:1485:ARG:CD	2.27	0.46
5:e:1556:ILE:HG23	6:f:1047:VAL:HB	1.97	0.46
6:f:1343:LEU:HA	6:f:1344:SER:HA	1.48	0.46
6:f:1420:ILE:HB	6:f:1482:ASP:OD1	2.16	0.46
7:g:1296:LYS:HA	7:g:1318:VAL:HG23	1.97	0.46
3:k:1202:ARG:HH21	3:k:1323:SER:HB3	1.81	0.46
3:k:1230:VAL:HG21	3:k:1303:ASP:H	1.80	0.46
3:k:1436:GLY:C	3:k:1438:GLN:H	2.24	0.46
5:m:1084:THR:CG2	5:m:1085:ASN:N	2.78	0.46
5:m:1103:LEU:HA	5:m:1106:GLN:HE21	1.81	0.46
6:n:1108:PHE:CE1	6:n:1118:ILE:HG13	2.50	0.46
6:n:1221:HIS:CD2	6:n:1224:MET:SD	3.09	0.46
6:n:1224:MET:HE2	6:n:1315:LEU:HA	1.96	0.46
7:o:1491:ASN:OD1	7:o:1496:VAL:CG2	2.64	0.46
8:p:1386:LEU:H	8:p:1386:LEU:HD12	1.81	0.46
2:B:60:GLY:O	2:B:63:ILE:HG22	2.15	0.46
2:B:63:ILE:CG2	2:B:64:LEU:HG	2.44	0.46
3:C:129:LEU:HD23	3:C:510:VAL:HG12	1.96	0.46
7:G:60:THR:O	7:G:60:THR:HG23	2.15	0.46
7:G:207:GLY:HA3	7:G:379:ARG:HH11	1.81	0.46
7:G:491:ASN:OD1	7:G:496:VAL:CG2	2.64	0.46
8:H:94:ILE:H	8:H:94:ILE:HG13	1.50	0.46
2:J:197:LYS:C	2:J:198:ILE:HD12	2.41	0.46
2:J:242:LYS:HD3	3:K:269:TRP:CZ2	2.50	0.46
4:L:392:ARG:HD3	4:L:393:SER:N	2.31	0.46
6:N:182:TYR:C	6:N:184:ALA:N	2.73	0.46
6:N:233:VAL:HG13	6:N:351:SER:CB	2.43	0.46
8:P:32:ILE:HD13	8:P:32:ILE:O	2.16	0.46
1:a:1012:THR:CB	5:e:1096:LEU:HA	2.46	0.46
5:e:1269:LEU:HD22	5:e:1269:LEU:N	2.31	0.46
6:f:1332:THR:O	6:f:1333:GLY:C	2.58	0.46
6:f:1395:VAL:O	6:f:1399:LEU:HB3	2.14	0.46
7:g:1292:ILE:N	7:g:1312:ILE:HG13	2.30	0.46
8:h:1163:ILE:HG23	8:h:1179:SER:CB	2.42	0.46
2:j:1026:ALA:HB1	2:j:1077:LEU:HD11	1.98	0.46
4:l:1147:ARG:O	4:l:1151:VAL:HG23	2.16	0.46
5:m:1314:LYS:HZ1	5:m:1338:ASN:HA	1.80	0.46
5:m:1352:GLU:H	5:m:1352:GLU:HG3	1.59	0.46
6:n:1141:THR:CG2	6:n:1142:ASN:N	2.78	0.46
6:n:1427:ARG:HG2	6:n:1448:ALA:CB	2.46	0.46
7:o:1033:CYS:SG	7:o:1106:GLY:HA2	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1454:CYS:HB3	7:o:1461:ALA:HA	1.98	0.46
4:D:182:SER:HB2	4:D:187:LYS:CE	2.46	0.46
4:D:305:LEU:HD23	4:D:305:LEU:C	2.41	0.46
5:E:269:LEU:HD22	5:E:269:LEU:N	2.31	0.46
6:F:233:VAL:HG13	6:F:351:SER:CB	2.43	0.46
6:F:427:ARG:HG2	6:F:448:ALA:CB	2.46	0.46
6:F:458:LEU:HG	6:F:459:VAL:HG23	1.97	0.46
7:G:33:CYS:SG	7:G:106:GLY:HA2	2.56	0.46
7:G:200:GLY:O	7:G:375:THR:HA	2.15	0.46
7:G:296:LYS:HA	7:G:318:VAL:HG23	1.97	0.46
8:H:251:THR:O	8:H:252:CYS:C	2.59	0.46
8:H:464:ALA:HB1	8:H:474:VAL:HG21	1.98	0.46
3:K:298:GLU:HA	3:K:320:VAL:H	1.81	0.46
4:L:234:ILE:HG22	4:L:236:LEU:HD22	1.97	0.46
4:L:367:ARG:C	4:L:369:ASN:N	2.67	0.46
6:N:122:PHE:HD1	6:N:447:PHE:HD1	1.63	0.46
6:N:332:THR:HB	6:N:350:PHE:O	2.15	0.46
6:N:458:LEU:HG	6:N:459:VAL:HG23	1.97	0.46
7:O:33:CYS:SG	7:O:106:GLY:HA2	2.56	0.46
7:O:234:LYS:HA	7:O:234:LYS:HD3	1.34	0.46
7:O:491:ASN:OD1	7:O:496:VAL:CG2	2.64	0.46
1:a:1145:SER:O	1:a:1148:VAL:HG23	2.15	0.46
2:b:1042:MET:HE3	2:b:1042:MET:HA	1.97	0.46
2:b:1162:SER:O	2:b:1163:SER:CB	2.63	0.46
4:d:1044:MET:HE3	8:h:1531:ALA:CB	2.45	0.46
4:d:1299:ASP:OD1	4:d:1301:ALA:HB3	2.16	0.46
5:e:1423:LEU:C	5:e:1425:ASP:N	2.73	0.46
6:f:1072:THR:O	6:f:1075:LEU:HB3	2.16	0.46
6:f:1109:ILE:O	5:m:1039:LYS:HE2	2.16	0.46
7:g:1317:ARG:O	7:g:1317:ARG:HD2	2.16	0.46
1:i:1143:VAL:HG12	1:i:1419:VAL:HG22	1.97	0.46
1:i:1419:VAL:HG13	1:i:1425:VAL:HG21	1.98	0.46
2:j:1042:MET:HE3	2:j:1042:MET:HA	1.97	0.46
4:l:1046:LYS:HG3	8:p:1532:THR:HG23	1.98	0.46
5:m:1269:LEU:HD22	5:m:1269:LEU:N	2.31	0.46
6:n:1146:ASP:O	6:n:1147:ARG:C	2.59	0.46
7:o:1200:GLY:O	7:o:1375:THR:HA	2.15	0.46
1:A:486:MET:CB	1:A:487:ALA:HB2	2.46	0.46
2:B:162:SER:O	2:B:163:SER:CB	2.63	0.46
3:C:246:LEU:O	3:C:247:ASP:HB3	2.15	0.46
4:D:344:LEU:O	4:D:345:ASP:OD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:392:ARG:HD3	4:D:393:SER:N	2.31	0.46
4:D:417:PRO:O	4:D:421:ILE:HG12	2.16	0.46
5:E:239:LEU:HD23	5:E:240:ILE:N	2.31	0.46
5:E:412:ASN:C	5:E:414:MET:H	2.24	0.46
5:E:423:LEU:C	5:E:425:ASP:N	2.73	0.46
6:F:330:LEU:O	6:F:372:ASP:O	2.34	0.46
6:F:497:ASP:CG	6:F:498:SER:N	2.74	0.46
1:I:143:VAL:HG12	1:I:419:VAL:HG22	1.97	0.46
2:J:26:ALA:HB1	2:J:77:LEU:HD11	1.97	0.46
2:J:109:LEU:C	2:J:111:ASP:H	2.24	0.46
2:J:242:LYS:HA	3:K:269:TRP:HE1	1.80	0.46
3:K:142:PRO:HB3	3:K:410:PRO:O	2.15	0.46
4:L:144:LEU:HD23	4:L:144:LEU:N	2.31	0.46
5:M:184:ALA:O	5:M:188:LEU:CB	2.64	0.46
1:a:1069:ILE:O	1:a:1073:LEU:HD13	2.16	0.46
1:a:1118:ASN:C	1:a:1119:LYS:CD	2.88	0.46
1:a:1178:ASN:HD21	1:a:1182:ASP:CG	2.23	0.46
2:b:1109:LEU:C	2:b:1111:ASP:H	2.24	0.46
2:b:1360:LYS:HA	2:b:1361:ALA:HA	1.69	0.46
2:b:1409:MET:HA	2:b:1409:MET:CE	2.38	0.46
2:b:1411:MET:CE	2:b:1498:VAL:HG21	2.46	0.46
3:c:1051:PRO:O	3:c:1052:MET:CG	2.63	0.46
4:d:1147:ARG:O	4:d:1151:VAL:HG23	2.16	0.46
5:e:1107:LEU:CD2	5:e:1544:LEU:HG	2.35	0.46
5:e:1184:ALA:O	5:e:1188:LEU:CB	2.64	0.46
6:f:1056:THR:HB	6:f:1390:GLN:HE22	1.79	0.46
6:f:1182:TYR:C	6:f:1184:ALA:N	2.73	0.46
6:f:1337:GLN:HG2	6:f:1347:ILE:CD1	2.46	0.46
7:g:1200:GLY:O	7:g:1375:THR:HA	2.15	0.46
7:g:1236:PHE:O	7:g:1239:PRO:CG	2.64	0.46
7:g:1528:GLY:HA3	7:g:1529:SER:C	2.41	0.46
1:i:1120:ILE:O	1:i:1120:ILE:HD13	2.16	0.46
1:i:1178:ASN:HD21	1:i:1182:ASP:CG	2.23	0.46
2:j:1030:GLY:HA2	2:j:1033:VAL:HG21	1.97	0.46
4:l:1157:SER:C	4:l:1159:SER:H	2.24	0.46
4:l:1209:MET:HE1	4:l:1375:VAL:HG11	1.97	0.46
5:m:1239:LEU:HD23	5:m:1240:ILE:N	2.31	0.46
7:o:1083:LEU:HD23	7:o:1086:ILE:CD1	2.45	0.46
7:o:1145:VAL:O	7:o:1408:LEU:CA	2.58	0.46
1:A:210:GLY:O	1:A:211:LYS:CB	2.64	0.46
1:A:218:LEU:HD23	1:A:385:ILE:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:95:THR:HG23	9:C:1101:ADP:O1A	2.15	0.46
9:C:1101:ADP:C8	9:C:1101:ADP:O3'	2.69	0.46
4:D:144:LEU:N	4:D:144:LEU:HD23	2.31	0.46
4:D:161:LYS:HA	4:D:161:LYS:HD2	1.66	0.46
4:D:284:ASN:O	4:D:310:ILE:CG2	2.63	0.46
7:G:126:MET:HA	7:G:126:MET:CE	2.40	0.46
7:G:236:PHE:O	7:G:239:PRO:CG	2.64	0.46
7:G:291:ASN:HA	7:G:312:ILE:HB	1.97	0.46
8:H:175:GLU:H	8:H:175:GLU:HG3	1.45	0.46
8:H:291:ILE:HD12	8:H:347:PRO:HG3	1.97	0.46
1:I:224:LEU:CD1	1:I:226:CYS:CB	2.90	0.46
2:J:286:ASN:HD22	2:J:287:ARG:N	2.14	0.46
4:L:9:ALA:CB	7:O:76:VAL:H	2.27	0.46
4:L:120:ILE:CG1	4:L:439:ILE:HG21	2.44	0.46
4:L:241:ILE:HD12	4:L:241:ILE:N	2.30	0.46
6:N:141:THR:CG2	6:N:142:ASN:N	2.78	0.46
2:b:1286:ASN:HD22	2:b:1287:ARG:N	2.14	0.46
4:d:1144:LEU:N	4:d:1144:LEU:HD23	2.31	0.46
4:d:1163:VAL:O	4:d:1167:SER:OG	2.31	0.46
6:f:1458:LEU:HG	6:f:1459:VAL:HG23	1.97	0.46
7:g:1217:GLY:HA3	7:g:1365:PHE:O	2.15	0.46
7:g:1470:LEU:O	7:g:1473:SER:OG	2.29	0.46
8:h:1054:ILE:HG13	8:h:1064:ILE:CG1	2.15	0.46
8:h:1464:ALA:HB1	8:h:1474:VAL:HG21	1.98	0.46
1:i:1433:LEU:O	1:i:1437:ALA:CA	2.64	0.46
2:j:1141:ASP:CG	2:j:1142:ASN:N	2.75	0.46
2:j:1217:LYS:HB3	2:j:1217:LYS:HE2	1.75	0.46
2:j:1295:GLU:HB2	6:n:1337:GLN:CD	2.41	0.46
2:j:1466:GLY:C	2:j:1467:ILE:HG13	2.41	0.46
4:l:1263:ILE:C	4:l:1265:LYS:H	2.23	0.46
4:l:1299:ASP:OD1	4:l:1301:ALA:HB3	2.16	0.46
4:l:1521:ILE:HG23	7:o:1050:ASP:C	2.38	0.46
6:n:1072:THR:O	6:n:1075:LEU:HB3	2.16	0.46
6:n:1141:THR:CB	6:n:1409:LYS:HG3	2.45	0.46
7:o:1507:LEU:C	7:o:1507:LEU:HD13	2.41	0.46
8:p:1464:ALA:HB1	8:p:1474:VAL:HG21	1.98	0.46
2:B:197:LYS:C	2:B:198:ILE:HD12	2.41	0.45
4:D:185:ASN:H	4:D:187:LYS:N	2.14	0.45
4:D:329:GLY:C	4:D:345:ASP:OD1	2.59	0.45
4:D:521:ILE:CG2	7:G:51:ILE:HA	2.40	0.45
6:F:72:THR:O	6:F:75:LEU:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:243:GLU:OE2	6:F:243:GLU:CA	2.52	0.45
6:F:296:ILE:HD12	6:F:328:LEU:HD22	1.99	0.45
6:F:540:THR:CB	6:F:541:LEU:HD22	2.44	0.45
7:G:452:GLN:HA	7:G:455:GLU:HB2	1.96	0.45
8:H:386:LEU:H	8:H:386:LEU:HD12	1.81	0.45
1:I:12:THR:HA	1:I:13:LEU:HA	1.69	0.45
1:I:66:GLY:CA	1:I:99:THR:HG22	2.47	0.45
2:J:203:LEU:O	2:J:204:SER:OG	2.30	0.45
2:J:219:GLY:HA3	2:J:304:ASN:ND2	2.31	0.45
3:K:47:MET:HE3	3:K:49:LEU:HD21	1.98	0.45
4:L:24:ASN:ND2	4:L:524:ILE:HD11	2.30	0.45
4:L:157:SER:C	4:L:159:SER:H	2.24	0.45
5:M:88:ALA:HB1	5:M:109:LYS:HZ2	1.80	0.45
5:M:103:LEU:HA	5:M:106:GLN:HE21	1.80	0.45
5:M:239:LEU:HD23	5:M:240:ILE:N	2.31	0.45
6:N:153:VAL:CB	6:N:507:TRP:CB	2.94	0.45
8:P:169:SER:HB2	9:P:601:ADP:O2A	2.15	0.45
1:a:1054:VAL:HG12	1:a:1056:ASP:N	2.30	0.45
1:a:1143:VAL:HG12	1:a:1419:VAL:HG22	1.97	0.45
1:a:1221:GLY:HA2	1:a:1382:SER:CB	2.42	0.45
1:a:1486:MET:CB	1:a:1487:ALA:HB2	2.46	0.45
4:d:1050:THR:HG22	4:d:1054:GLU:N	2.31	0.45
4:d:1418:GLU:HG2	4:d:1451:PRO:HD3	1.98	0.45
6:f:1141:THR:CG2	6:f:1142:ASN:N	2.79	0.45
6:f:1427:ARG:HG2	6:f:1448:ALA:CB	2.46	0.45
7:g:1080:ALA:O	7:g:1084:VAL:HG23	2.16	0.45
7:g:1409:ILE:CG2	7:g:1410:VAL:H	2.28	0.45
1:i:1458:ILE:HD12	1:i:1458:ILE:H	1.82	0.45
2:j:1045:LEU:HD12	6:n:1533:LEU:HB3	1.99	0.45
2:j:1232:LEU:HD22	2:j:1233:ILE:H	1.80	0.45
4:l:1120:ILE:CG1	4:l:1439:ILE:HG21	2.44	0.45
4:l:1392:ARG:HD3	4:l:1393:SER:N	2.31	0.45
5:m:1074:LEU:HD12	5:m:1093:GLN:HB3	1.96	0.45
5:m:1114:GLU:HG2	6:n:1201:HIS:ND1	2.31	0.45
6:n:1005:LEU:HB3	6:n:1006:LEU:C	2.39	0.45
6:n:1330:LEU:O	6:n:1372:ASP:O	2.34	0.45
6:n:1337:GLN:HG2	6:n:1347:ILE:CD1	2.46	0.45
8:p:1414:PRO:HA	8:p:1415:SER:HA	1.60	0.45
8:p:1426:THR:HG23	8:p:1427:GLU:N	2.31	0.45
1:A:420:PRO:O	1:A:424:CYS:HB3	2.16	0.45
2:B:116:HIS:CE1	2:B:118:GLN:CB	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:116:HIS:HA	2:B:117:PRO:HD3	1.74	0.45
2:B:210:GLU:CB	2:B:357:SER:O	2.65	0.45
3:C:335:THR:HB	8:H:237:LYS:CE	2.34	0.45
4:D:50:THR:HG22	4:D:54:GLU:N	2.31	0.45
4:D:98:ILE:HG12	4:D:98:ILE:H	1.57	0.45
4:D:325:SER:O	4:D:329:GLY:N	2.47	0.45
4:D:418:GLU:HG2	4:D:451:PRO:HD3	1.98	0.45
6:F:43:LEU:HD21	6:F:161:LYS:CA	2.42	0.45
6:F:160:THR:N	6:F:164:ALA:HB3	2.31	0.45
6:F:182:TYR:C	6:F:184:ALA:N	2.73	0.45
1:I:336:THR:HB	1:I:354:TYR:HD1	1.80	0.45
1:I:420:PRO:O	1:I:424:CYS:HB3	2.16	0.45
1:I:433:LEU:O	1:I:437:ALA:CA	2.65	0.45
2:J:27:ILE:O	2:J:27:ILE:HG12	2.15	0.45
4:L:50:THR:HG22	4:L:54:GLU:N	2.30	0.45
4:L:182:SER:HB2	4:L:187:LYS:CE	2.46	0.45
4:L:499:GLN:HA	4:L:500:PRO:HD3	1.86	0.45
5:M:396:GLU:HA	5:M:397:GLN:HA	1.53	0.45
6:N:56:THR:HB	6:N:390:GLN:CD	2.42	0.45
6:N:296:ILE:HG12	6:N:317:LEU:HB2	1.98	0.45
6:N:337:GLN:HG2	6:N:347:ILE:CD1	2.46	0.45
7:O:296:LYS:HA	7:O:318:VAL:HG23	1.97	0.45
7:O:329:ALA:HA	7:O:371:ALA:HB1	1.98	0.45
8:P:426:THR:HG23	8:P:427:GLU:N	2.31	0.45
1:a:1433:LEU:O	1:a:1437:ALA:CA	2.64	0.45
2:b:1386:ASP:O	2:b:1390:VAL:HG23	2.17	0.45
3:c:1298:GLU:HA	3:c:1320:VAL:H	1.81	0.45
4:d:1226:PRO:CG	4:d:1311:MET:HG2	2.47	0.45
5:e:1084:THR:HG22	5:e:1085:ASN:N	2.31	0.45
5:e:1396:GLU:HA	5:e:1397:GLN:HA	1.53	0.45
6:f:1109:ILE:CG1	5:m:1039:LYS:HZ3	2.30	0.45
6:f:1122:PHE:HD1	6:f:1447:PHE:HD1	1.63	0.45
6:f:1209:PHE:CE2	6:f:1376:CYS:SG	2.97	0.45
8:h:1437:TYR:C	8:h:1437:TYR:CD2	2.95	0.45
1:i:1012:THR:OG1	5:m:1096:LEU:HA	2.16	0.45
1:i:1029:ASN:HD22	1:i:1538:ILE:HG23	1.80	0.45
2:j:1068:PRO:HG2	6:n:1536:ALA:HB2	1.98	0.45
2:j:1197:LYS:C	2:j:1198:ILE:HD12	2.41	0.45
2:j:1293:TYR:O	2:j:1297:LEU:HD23	2.17	0.45
4:l:1050:THR:HG22	4:l:1054:GLU:N	2.31	0.45
4:l:1144:LEU:N	4:l:1144:LEU:HD23	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:l:1305:LEU:HD23	4:l:1305:LEU:C	2.41	0.45
4:l:1325:SER:O	4:l:1329:GLY:N	2.46	0.45
6:n:1332:THR:HB	6:n:1350:PHE:O	2.15	0.45
7:o:1317:ARG:O	7:o:1317:ARG:HD2	2.16	0.45
8:p:1032:ILE:O	8:p:1032:ILE:HD13	2.16	0.45
8:p:1032:ILE:HD11	8:p:1111:LEU:C	2.41	0.45
8:p:1163:ILE:HG23	8:p:1179:SER:CB	2.42	0.45
1:A:69:ILE:O	1:A:73:LEU:HD13	2.15	0.45
2:B:411:MET:CE	2:B:498:VAL:HG21	2.46	0.45
2:B:492:LYS:H	2:B:492:LYS:HZ1	1.63	0.45
3:C:142:PRO:HB3	3:C:410:PRO:O	2.15	0.45
3:C:174:LEU:HG	3:C:219:VAL:CG2	2.47	0.45
4:D:194:ILE:O	4:D:194:ILE:HG12	2.15	0.45
6:F:159:LEU:CA	6:F:164:ALA:HB2	2.41	0.45
6:F:167:THR:CB	6:F:168:GLU:HB3	2.47	0.45
6:F:352:GLY:C	6:F:367:VAL:HG12	2.40	0.45
8:H:426:THR:HG23	8:H:427:GLU:N	2.31	0.45
8:H:437:TYR:C	8:H:437:TYR:CD2	2.95	0.45
1:I:94:ILE:HD12	1:I:94:ILE:N	2.29	0.45
1:I:128:GLY:O	1:I:448:ILE:HD13	2.15	0.45
1:I:210:GLY:O	1:I:211:LYS:CB	2.64	0.45
2:J:293:TYR:O	2:J:297:LEU:HD23	2.17	0.45
3:K:471:LEU:HD12	3:K:491:ILE:HG21	1.98	0.45
6:N:79:ALA:HB1	6:N:523:ILE:HD11	1.98	0.45
6:N:221:HIS:HB2	6:N:224:MET:CG	2.43	0.45
6:N:332:THR:O	6:N:333:GLY:C	2.58	0.45
6:N:415:ALA:HA	9:N:601:ADP:H1'	1.97	0.45
6:N:420:ILE:HB	6:N:482:ASP:OD1	2.15	0.45
7:O:191:ARG:NE	7:O:191:ARG:C	2.75	0.45
8:P:252:CYS:HB2	8:P:343:ARG:N	2.32	0.45
1:a:1016:GLY:CA	1:a:1548:ASP:HB3	2.44	0.45
1:a:1112:ALA:HB1	1:a:1539:LEU:HD21	1.98	0.45
2:b:1116:HIS:CE1	2:b:1118:GLN:CB	2.99	0.45
2:b:1141:ASP:CG	2:b:1142:ASN:N	2.75	0.45
2:b:1222:GLN:HB3	2:b:1223:PRO:HD2	1.98	0.45
2:b:1466:GLY:C	2:b:1467:ILE:HG13	2.41	0.45
3:c:1064:ILE:HG22	3:c:1065:LEU:N	2.32	0.45
3:c:1084:THR:HG22	8:h:1213:MET:SD	2.56	0.45
4:d:1182:SER:HB2	4:d:1187:LYS:CE	2.46	0.45
4:d:1417:PRO:O	4:d:1421:ILE:HG12	2.16	0.45
5:e:1118:GLY:HA2	9:e:1601:ADP:O1A	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1340:LEU:HD23	5:e:1340:LEU:H	1.81	0.45
6:f:1342:ASP:O	6:f:1343:LEU:C	2.59	0.45
8:h:1291:ILE:HD12	8:h:1347:PRO:HG3	1.97	0.45
1:i:1054:VAL:C	1:i:1056:ASP:H	2.23	0.45
1:i:1486:MET:CB	1:i:1487:ALA:HB2	2.46	0.45
2:j:1243:VAL:HG12	2:j:1245:ILE:N	2.29	0.45
2:j:1411:MET:CE	2:j:1498:VAL:HG21	2.46	0.45
3:k:1402:VAL:HG13	3:k:1502:PRO:CG	2.45	0.45
6:n:1056:THR:HB	6:n:1390:GLN:CD	2.42	0.45
6:n:1122:PHE:HD1	6:n:1447:PHE:HD1	1.63	0.45
7:o:1094:VAL:CG1	7:o:1095:GLY:H	2.28	0.45
2:B:109:LEU:C	2:B:111:ASP:H	2.24	0.45
2:B:295:GLU:C	6:F:337:GLN:NE2	2.67	0.45
3:C:64:ILE:HG22	3:C:65:LEU:N	2.31	0.45
3:C:237:HIS:C	3:C:238:ILE:HG13	2.39	0.45
5:E:84:THR:HG22	5:E:85:ASN:N	2.31	0.45
6:F:122:PHE:HD1	6:F:447:PHE:HD1	1.63	0.45
6:F:420:ILE:HG22	6:F:482:ASP:CG	2.41	0.45
1:I:120:ILE:HD13	1:I:120:ILE:O	2.16	0.45
1:I:419:VAL:HG13	1:I:425:VAL:HG21	1.98	0.45
1:I:458:ILE:HD12	1:I:458:ILE:H	1.82	0.45
2:J:210:GLU:CB	2:J:357:SER:O	2.64	0.45
3:K:230:VAL:HG21	3:K:303:ASP:H	1.80	0.45
3:K:508:GLN:CG	8:P:215:GLY:HA2	2.46	0.45
5:M:269:LEU:HD22	5:M:269:LEU:N	2.31	0.45
6:N:221:HIS:CD2	6:N:224:MET:SD	3.09	0.45
7:O:241:ILE:HD12	7:O:330:VAL:HG21	1.98	0.45
7:O:400:VAL:O	7:O:404:LEU:HB2	2.17	0.45
8:P:386:LEU:HD12	8:P:386:LEU:H	1.81	0.45
2:b:1045:LEU:HB2	6:f:1533:LEU:HB3	1.98	0.45
2:b:1348:LEU:CG	6:f:1086:ILE:CA	2.87	0.45
3:c:1229:VAL:HG12	3:c:1230:VAL:H	1.80	0.45
3:c:1231:HIS:HA	3:c:1232:PRO:HD3	1.72	0.45
4:d:1120:ILE:CG1	4:d:1439:ILE:HG21	2.44	0.45
4:d:1194:ILE:O	4:d:1194:ILE:HG12	2.15	0.45
4:d:1292:ILE:HG13	4:d:1293:LEU:C	2.42	0.45
4:d:1325:SER:O	4:d:1329:GLY:N	2.46	0.45
4:d:1392:ARG:HD3	4:d:1393:SER:N	2.31	0.45
5:e:1273:THR:CG2	5:e:1364:PRO:CA	2.72	0.45
6:f:1109:ILE:HG13	5:m:1039:LYS:NZ	2.32	0.45
6:f:1238:VAL:HG22	6:f:1239:SER:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1330:LEU:HB3	6:f:1375:SER:OG	2.17	0.45
6:f:1424:ARG:HE	6:f:1424:ARG:CA	2.17	0.45
6:f:1454:ILE:O	6:f:1457:THR:OG1	2.30	0.45
7:g:1241:ILE:HD12	7:g:1330:VAL:HG21	1.98	0.45
7:g:1291:ASN:HA	7:g:1312:ILE:HB	1.97	0.45
8:h:1414:PRO:HA	8:h:1415:SER:HA	1.60	0.45
1:i:1129:PHE:CD2	1:i:1129:PHE:N	2.84	0.45
1:i:1420:PRO:O	1:i:1424:CYS:HB3	2.16	0.45
1:i:1532:LEU:O	1:i:1536:VAL:HG23	2.16	0.45
2:j:1224:LYS:O	2:j:1343:ILE:HA	2.16	0.45
7:o:1109:MET:SD	7:o:1514:THR:CB	3.05	0.45
7:o:1226:TYR:CE1	7:o:1229:PHE:CB	3.00	0.45
7:o:1282:LEU:HD23	7:o:1303:ALA:O	2.17	0.45
7:o:1454:CYS:HB2	7:o:1461:ALA:HB1	1.98	0.45
8:p:1113:VAL:CG1	8:p:1451:GLN:HG3	2.37	0.45
1:A:66:GLY:CA	1:A:99:THR:HG22	2.47	0.45
2:B:466:GLY:C	2:B:467:ILE:HG13	2.41	0.45
3:C:202:ARG:HH21	3:C:323:SER:HB3	1.81	0.45
4:D:292:ILE:CG1	4:D:293:LEU:HA	2.47	0.45
5:E:297:LYS:HD2	5:E:297:LYS:HA	1.66	0.45
6:F:56:THR:HB	6:F:390:GLN:CD	2.42	0.45
6:F:337:GLN:HG2	6:F:347:ILE:CD1	2.46	0.45
7:G:165:ALA:CB	7:G:399:ILE:HG21	2.46	0.45
7:G:282:LEU:HD23	7:G:303:ALA:O	2.17	0.45
8:H:101:ASN:N	9:H:601:ADP:O2B	2.43	0.45
8:H:291:ILE:HD12	8:H:347:PRO:HG2	1.96	0.45
8:H:329:LEU:HD23	8:H:329:LEU:O	2.17	0.45
1:I:86:LEU:HD21	1:I:101:VAL:HG12	1.99	0.45
2:J:88:VAL:HG12	2:J:89:GLY:N	2.32	0.45
2:J:234:ALA:HA	2:J:325:VAL:HB	1.99	0.45
2:J:386:ASP:O	2:J:390:VAL:HG23	2.17	0.45
3:K:64:ILE:HG22	3:K:65:LEU:N	2.32	0.45
4:L:94:THR:C	4:L:96:VAL:H	2.25	0.45
4:L:185:ASN:H	4:L:187:LYS:N	2.14	0.45
6:N:342:ASP:O	6:N:343:LEU:C	2.59	0.45
8:P:247:VAL:HG22	8:P:248:ALA:N	2.32	0.45
8:P:437:TYR:C	8:P:437:TYR:CD2	2.95	0.45
2:b:1210:GLU:CB	2:b:1357:SER:O	2.64	0.45
2:b:1295:GLU:HB2	6:f:1337:GLN:CD	2.41	0.45
4:d:1254:VAL:HG21	8:h:1265:VAL:HG22	1.97	0.45
4:d:1367:ARG:C	4:d:1369:ASN:N	2.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1399:LEU:HD12	6:f:1399:LEU:O	2.17	0.45
7:g:1109:MET:SD	7:g:1514:THR:CB	3.05	0.45
1:i:1025:ILE:HG22	1:i:1026:ARG:N	2.32	0.45
2:j:1037:LEU:CB	2:j:1444:LEU:HD13	2.47	0.45
2:j:1389:SER:O	2:j:1393:GLN:HG3	2.17	0.45
3:k:1064:ILE:HG22	3:k:1065:LEU:N	2.31	0.45
4:l:1094:THR:C	4:l:1096:VAL:H	2.25	0.45
4:l:1273:ASN:HD22	7:o:1268:GLN:HE22	1.65	0.45
5:m:1500:SER:O	5:m:1504:LYS:HG2	2.17	0.45
6:n:1016:ASP:HA	6:n:1019:LEU:CG	2.45	0.45
6:n:1497:ASP:CG	6:n:1498:SER:N	2.74	0.45
8:p:1006:PRO:CB	8:p:1007:GLN:CA	2.93	0.45
8:p:1247:VAL:HG22	8:p:1248:ALA:N	2.32	0.45
1:A:55:ASP:O	1:A:57:ILE:N	2.50	0.45
1:A:86:LEU:HD21	1:A:101:VAL:HG12	1.99	0.45
1:A:336:THR:HB	1:A:354:TYR:HD1	1.80	0.45
2:B:4:GLN:CB	3:C:71:ALA:HB3	2.45	0.45
3:C:47:MET:HE3	3:C:49:LEU:HD21	1.99	0.45
3:C:298:GLU:HA	3:C:320:VAL:H	1.81	0.45
4:D:226:PRO:CG	4:D:311:MET:HG2	2.47	0.45
5:E:189:GLY:O	5:E:190:SER:HB2	2.17	0.45
5:E:439:VAL:HB	5:E:528:VAL:HG13	1.99	0.45
6:F:141:THR:CG2	6:F:142:ASN:N	2.78	0.45
6:F:146:ASP:O	6:F:147:ARG:C	2.59	0.45
6:F:173:ILE:HD11	6:F:209:PHE:N	2.32	0.45
6:F:238:VAL:HG22	6:F:239:SER:N	2.32	0.45
7:G:317:ARG:O	7:G:317:ARG:HD2	2.16	0.45
8:H:96:MET:CB	8:H:515:GLU:OE1	2.65	0.45
1:I:69:ILE:O	1:I:73:LEU:HD13	2.16	0.45
1:I:486:MET:CB	1:I:487:ALA:HB2	2.46	0.45
2:J:232:LEU:HD22	2:J:233:ILE:H	1.80	0.45
2:J:456:VAL:HG13	2:J:457:SER:N	2.32	0.45
2:J:466:GLY:C	2:J:467:ILE:HG13	2.41	0.45
4:L:226:PRO:CG	4:L:311:MET:HG2	2.47	0.45
5:M:84:THR:HG22	5:M:85:ASN:N	2.31	0.45
5:M:439:VAL:HB	5:M:528:VAL:HG13	1.99	0.45
6:N:238:VAL:HG22	6:N:239:SER:N	2.32	0.45
6:N:399:LEU:O	6:N:399:LEU:HD12	2.17	0.45
7:O:207:GLY:HA3	7:O:379:ARG:HH11	1.81	0.45
7:O:317:ARG:O	7:O:317:ARG:HD2	2.16	0.45
7:O:528:GLY:HA3	7:O:529:SER:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:96:MET:CB	8:P:515:GLU:OE1	2.65	0.45
8:P:464:ALA:HB1	8:P:474:VAL:HG21	1.98	0.45
1:a:1054:VAL:C	1:a:1056:ASP:H	2.23	0.45
1:a:1120:ILE:O	1:a:1120:ILE:HD13	2.17	0.45
1:a:1218:LEU:HD23	1:a:1385:ILE:HG12	1.98	0.45
3:c:1174:LEU:HG	3:c:1219:VAL:CG2	2.47	0.45
3:c:1402:VAL:HG13	3:c:1502:PRO:CG	2.45	0.45
3:c:1471:LEU:HD12	3:c:1491:ILE:HG21	1.99	0.45
4:d:1157:SER:C	4:d:1159:SER:H	2.24	0.45
6:f:1016:ASP:O	6:f:1020:LYS:N	2.46	0.45
6:f:1296:ILE:HD12	6:f:1328:LEU:HD22	1.99	0.45
7:g:1159:GLU:O	7:g:1179:VAL:HG11	2.17	0.45
7:g:1400:VAL:O	7:g:1404:LEU:HB2	2.17	0.45
2:j:1109:LEU:C	2:j:1111:ASP:H	2.24	0.45
2:j:1222:GLN:HB3	2:j:1223:PRO:HD2	1.98	0.45
2:j:1386:ASP:O	2:j:1390:VAL:HG23	2.17	0.45
3:k:1047:MET:HG2	3:k:1048:LEU:N	2.30	0.45
3:k:1174:LEU:HG	3:k:1219:VAL:CG2	2.47	0.45
4:l:1250:ASN:HA	7:o:1259:VAL:CG1	2.32	0.45
5:m:1210:ASN:HD22	5:m:1210:ASN:N	2.08	0.45
6:n:1173:ILE:HD11	6:n:1209:PHE:N	2.32	0.45
6:n:1370:ASN:HD22	6:n:1370:ASN:N	2.14	0.45
7:o:1329:ALA:HA	7:o:1371:ALA:HB1	1.98	0.45
8:p:1209:VAL:CG2	8:p:1386:LEU:HD11	2.35	0.45
8:p:1251:THR:O	8:p:1252:CYS:C	2.59	0.45
1:A:532:LEU:O	1:A:536:VAL:HG23	2.16	0.45
2:B:30:GLY:HA2	2:B:33:VAL:HG21	1.97	0.45
2:B:386:ASP:O	2:B:390:VAL:HG23	2.17	0.45
3:C:222:GLY:HA3	3:C:368:LEU:O	2.17	0.45
3:C:230:VAL:HG21	3:C:303:ASP:H	1.80	0.45
9:C:1101:ADP:O1A	10:C:1102:BEF:F3	2.24	0.45
4:D:103:LEU:HD22	4:D:515:VAL:HG21	1.99	0.45
4:D:157:SER:C	4:D:159:SER:H	2.24	0.45
6:F:108:PHE:CE1	6:F:118:ILE:HG13	2.50	0.45
6:F:296:ILE:HG12	6:F:317:LEU:HB2	1.98	0.45
7:G:191:ARG:NE	7:G:191:ARG:C	2.75	0.45
2:J:45:LEU:HB2	6:N:533:LEU:HB3	1.95	0.45
3:K:436:GLY:C	3:K:438:GLN:H	2.24	0.45
4:L:299:ASP:OD1	4:L:301:ALA:HB3	2.16	0.45
9:L:601:ADP:N3	9:L:601:ADP:H2'	2.31	0.45
6:N:72:THR:O	6:N:75:LEU:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:173:ILE:HD11	6:N:209:PHE:N	2.32	0.45
7:O:226:TYR:CE1	7:O:229:PHE:CB	3.00	0.45
7:O:291:ASN:HA	7:O:312:ILE:HB	1.97	0.45
8:P:63:ILE:HD12	8:P:74:GLU:CG	2.45	0.45
8:P:71:MET:O	8:P:75:LEU:HG	2.17	0.45
8:P:251:THR:O	8:P:252:CYS:C	2.59	0.45
4:d:1313:VAL:HG11	4:d:1361:VAL:HG21	1.99	0.45
6:f:1153:VAL:CB	6:f:1507:TRP:CB	2.94	0.45
6:f:1207:THR:HB	6:f:1380:ILE:HA	1.99	0.45
6:f:1362:GLU:CG	6:f:1364:PHE:CE2	2.93	0.45
7:g:1094:VAL:CG1	7:g:1095:GLY:H	2.28	0.45
7:g:1191:ARG:NE	7:g:1191:ARG:C	2.75	0.45
7:g:1207:GLY:HA3	7:g:1379:ARG:HH11	1.81	0.45
7:g:1438:ILE:HD12	7:g:1438:ILE:N	2.32	0.45
8:h:1134:ALA:O	8:h:1138:THR:HG23	2.17	0.45
1:i:1143:VAL:HG11	1:i:1425:VAL:HG22	1.99	0.45
1:i:1256:MET:HE3	1:i:1260:VAL:O	2.17	0.45
2:j:1219:GLY:HA3	2:j:1304:ASN:ND2	2.31	0.45
2:j:1286:ASN:HD22	2:j:1287:ARG:N	2.14	0.45
3:k:1048:LEU:HD21	3:k:1064:ILE:HD13	1.99	0.45
3:k:1219:VAL:HG13	3:k:1379:ILE:HD12	1.99	0.45
3:k:1471:LEU:HD12	3:k:1491:ILE:HG21	1.99	0.45
5:m:1184:ALA:O	5:m:1188:LEU:CB	2.64	0.45
5:m:1439:VAL:HB	5:m:1528:VAL:HG13	1.99	0.45
6:n:1342:ASP:O	6:n:1343:LEU:C	2.59	0.45
6:n:1420:ILE:HB	6:n:1482:ASP:OD1	2.15	0.45
9:n:1601:ADP:C8	9:n:1601:ADP:O2'	2.69	0.45
7:o:1296:LYS:HA	7:o:1318:VAL:HG23	1.97	0.45
2:B:219:GLY:HA3	2:B:304:ASN:ND2	2.31	0.45
2:B:293:TYR:O	2:B:297:LEU:HD23	2.17	0.45
3:C:414:PRO:HG2	3:C:481:THR:CG2	2.47	0.45
3:C:471:LEU:HD12	3:C:491:ILE:HG21	1.98	0.45
4:D:263:ILE:C	4:D:265:LYS:H	2.23	0.45
4:D:292:ILE:HG13	4:D:293:LEU:C	2.42	0.45
6:F:207:THR:HB	6:F:380:ILE:HA	1.99	0.45
6:F:342:ASP:O	6:F:343:LEU:C	2.59	0.45
6:F:436:ALA:HA	6:F:437:LYS:HA	1.66	0.45
8:H:146:VAL:C	8:H:148:GLY:N	2.75	0.45
8:H:247:VAL:HG22	8:H:248:ALA:N	2.32	0.45
1:I:55:ASP:O	1:I:57:ILE:N	2.50	0.45
3:K:10:ALA:HA	3:K:11:SER:HA	1.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:209:MET:HE1	4:L:375:VAL:HG11	1.97	0.45
4:L:313:VAL:HG11	4:L:361:VAL:HG21	1.99	0.45
5:M:314:LYS:HZ1	5:M:338:ASN:HA	1.82	0.45
6:N:491:VAL:HG12	6:N:492:ASP:H	1.82	0.45
6:N:540:THR:CB	6:N:541:LEU:HD22	2.44	0.45
8:P:226:MET:HE1	8:P:328:GLU:CG	2.47	0.45
1:a:1419:VAL:HG13	1:a:1425:VAL:HG21	1.98	0.45
2:b:1219:GLY:HA3	2:b:1304:ASN:ND2	2.31	0.45
2:b:1456:VAL:HG13	2:b:1457:SER:N	2.32	0.45
3:c:1048:LEU:HD21	3:c:1064:ILE:HD13	1.99	0.45
5:e:1084:THR:HA	5:e:1418:GLU:OE1	2.17	0.45
5:e:1500:SER:O	5:e:1504:LYS:HG2	2.17	0.45
6:f:1539:SER:O	6:f:1540:THR:C	2.58	0.45
7:g:1282:LEU:HD23	7:g:1303:ALA:O	2.17	0.45
8:h:1175:GLU:H	8:h:1175:GLU:HG3	1.45	0.45
8:h:1237:LYS:HB2	8:h:1314:ASN:CB	2.31	0.45
2:j:1370:ARG:O	2:j:1372:ALA:N	2.50	0.45
3:k:1222:GLY:HA3	3:k:1368:LEU:O	2.17	0.45
4:l:1103:LEU:HD22	4:l:1515:VAL:HG21	1.99	0.45
4:l:1185:ASN:H	4:l:1187:LYS:N	2.14	0.45
5:m:1084:THR:HA	5:m:1418:GLU:OE1	2.17	0.45
5:m:1267:VAL:HG12	5:m:1268:LYS:N	2.32	0.45
5:m:1340:LEU:HD23	5:m:1340:LEU:H	1.81	0.45
6:n:1491:VAL:HG12	6:n:1492:ASP:H	1.82	0.45
7:o:1165:ALA:CB	7:o:1399:ILE:HG21	2.46	0.45
8:p:1329:LEU:HD23	8:p:1329:LEU:O	2.17	0.45
8:p:1332:LEU:O	8:p:1335:VAL:HB	2.17	0.45
1:A:25:ILE:HG22	1:A:26:ARG:N	2.32	0.45
1:A:129:PHE:N	1:A:129:PHE:CD2	2.84	0.45
2:B:74:ALA:O	2:B:78:VAL:HG23	2.17	0.45
2:B:222:GLN:HB3	2:B:223:PRO:HD2	1.98	0.45
3:C:219:VAL:HG13	3:C:379:ILE:HD12	1.99	0.45
5:E:35:GLN:CD	5:E:36:GLY:CA	2.86	0.45
5:E:500:SER:O	5:E:504:LYS:HG2	2.17	0.45
6:F:92:THR:OG1	9:F:601:ADP:PB	2.74	0.45
6:F:117:ILE:HG12	5:M:33:LYS:CE	2.39	0.45
7:G:170:LEU:O	7:G:170:LEU:CD2	2.58	0.45
1:I:62:VAL:O	1:I:397:GLU:HG3	2.17	0.45
2:J:40:LYS:HA	6:N:116:ARG:HG3	1.99	0.45
2:J:88:VAL:CG1	2:J:393:GLN:HE22	2.22	0.45
5:M:267:VAL:HG12	5:M:268:LYS:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:412:ASN:C	5:M:414:MET:H	2.24	0.45
5:M:456:GLU:HA	5:M:456:GLU:OE2	2.17	0.45
5:M:500:SER:O	5:M:504:LYS:HG2	2.17	0.45
6:N:166:LEU:CD2	6:N:205:LYS:HA	2.47	0.45
6:N:167:THR:CA	6:N:168:GLU:CB	2.95	0.45
6:N:178:VAL:HG21	6:N:402:VAL:CG1	2.47	0.45
6:N:207:THR:HB	6:N:380:ILE:HA	1.99	0.45
6:N:296:ILE:HD12	6:N:328:LEU:HD22	1.99	0.45
6:N:330:LEU:O	6:N:372:ASP:O	2.34	0.45
7:O:438:ILE:N	7:O:438:ILE:HD12	2.32	0.45
1:a:1012:THR:HA	1:a:1013:LEU:HA	1.68	0.45
1:a:1062:VAL:O	1:a:1397:GLU:HG3	2.17	0.45
1:a:1066:GLY:CA	1:a:1099:THR:HG22	2.47	0.45
1:a:1420:PRO:O	1:a:1424:CYS:HB3	2.16	0.45
2:b:1088:VAL:HG12	2:b:1089:GLY:N	2.32	0.45
2:b:1235:ASN:ND2	3:c:1304:LEU:HD21	2.32	0.45
2:b:1278:LYS:C	2:b:1280:GLY:H	2.25	0.45
3:c:1112:ILE:C	3:c:1114:LYS:N	2.74	0.45
3:c:1113:GLU:HB2	1:i:1460:LYS:HD2	1.98	0.45
5:e:1351:LEU:HD22	5:e:1352:GLU:H	1.82	0.45
6:f:1079:ALA:HB1	6:f:1523:ILE:HD11	1.99	0.45
6:f:1420:ILE:HG22	6:f:1482:ASP:CG	2.41	0.45
7:g:1454:CYS:HB3	7:g:1461:ALA:HA	1.98	0.45
8:h:1062:ILE:HD13	8:h:1063:ILE:N	2.32	0.45
2:j:1029:VAL:C	2:j:1033:VAL:CG2	2.88	0.45
2:j:1314:VAL:HG12	3:k:1231:HIS:ND1	2.32	0.45
6:n:1296:ILE:HD12	6:n:1328:LEU:HD22	1.99	0.45
6:n:1343:LEU:HA	6:n:1344:SER:HA	1.48	0.45
6:n:1415:ALA:HA	9:n:1601:ADP:H1'	1.98	0.45
7:o:1159:GLU:O	7:o:1179:VAL:HG11	2.17	0.45
7:o:1191:ARG:NE	7:o:1191:ARG:C	2.75	0.45
7:o:1207:GLY:HA3	7:o:1379:ARG:HH11	1.81	0.45
7:o:1400:VAL:O	7:o:1404:LEU:HB2	2.17	0.45
8:p:1335:VAL:HG13	8:p:1379:SER:CB	2.46	0.45
1:A:120:ILE:HD13	1:A:120:ILE:O	2.16	0.45
1:A:256:MET:HE3	1:A:260:VAL:O	2.17	0.45
2:B:15:ALA:O	2:B:16:GLU:C	2.60	0.45
2:B:368:VAL:O	2:B:377:LEU:HD23	2.17	0.45
2:B:456:VAL:HG13	2:B:457:SER:N	2.32	0.45
3:C:402:VAL:HG13	3:C:502:PRO:CG	2.45	0.45
5:E:84:THR:HA	5:E:418:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:150:PHE:CD1	5:E:472:PHE:HE2	2.35	0.45
5:E:255:PRO:HG3	5:E:336:LEU:CB	2.47	0.45
6:F:204:PRO:C	6:F:207:THR:HG23	2.42	0.45
6:F:399:LEU:O	6:F:399:LEU:HD12	2.17	0.45
6:F:491:VAL:HG12	6:F:492:ASP:H	1.82	0.45
7:G:159:GLU:O	7:G:179:VAL:HG11	2.17	0.45
8:H:62:ILE:HD13	8:H:63:ILE:N	2.32	0.45
8:H:252:CYS:HB2	8:H:343:ARG:N	2.32	0.45
8:H:332:LEU:O	8:H:335:VAL:HB	2.17	0.45
8:H:335:VAL:HG13	8:H:379:SER:CB	2.46	0.45
1:I:129:PHE:N	1:I:129:PHE:CD2	2.84	0.45
1:I:218:LEU:HD23	1:I:385:ILE:HG12	1.98	0.45
2:J:32:LEU:HD12	6:N:532:GLU:OE2	2.17	0.45
2:J:222:GLN:HB3	2:J:223:PRO:HD2	1.98	0.45
3:K:222:GLY:HA3	3:K:368:LEU:O	2.17	0.45
4:L:418:GLU:HG2	4:L:451:PRO:HD3	1.98	0.45
5:M:416:VAL:C	5:M:418:GLU:H	2.25	0.45
6:N:539:SER:HB2	6:N:542:LYS:HD3	1.99	0.45
7:O:204:ILE:HA	7:O:205:PRO:HD3	1.79	0.45
8:P:134:ALA:O	8:P:138:THR:HG23	2.17	0.45
1:a:1187:VAL:CG1	1:a:1382:SER:H	2.30	0.45
3:c:1047:MET:HE3	3:c:1049:LEU:HD21	1.99	0.45
4:d:1094:THR:C	4:d:1096:VAL:H	2.25	0.45
4:d:1181:ILE:HD11	4:d:1375:VAL:HG23	1.98	0.45
4:d:1241:ILE:HD12	4:d:1241:ILE:N	2.30	0.45
5:e:1267:VAL:HG12	5:e:1268:LYS:N	2.32	0.45
6:f:1167:THR:CB	6:f:1168:GLU:HB3	2.47	0.45
6:f:1497:ASP:CG	6:f:1498:SER:N	2.74	0.45
8:h:1096:MET:CB	8:h:1515:GLU:OE1	2.65	0.45
8:h:1252:CYS:HB2	8:h:1343:ARG:N	2.32	0.45
1:i:1187:VAL:CG1	1:i:1382:SER:H	2.30	0.45
3:k:1225:LEU:HD13	3:k:1320:VAL:HG11	1.96	0.45
3:k:1298:GLU:HA	3:k:1320:VAL:H	1.81	0.45
4:l:1417:PRO:O	4:l:1421:ILE:HG12	2.16	0.45
8:p:1226:MET:HE1	8:p:1328:GLU:CG	2.47	0.45
8:p:1437:TYR:C	8:p:1437:TYR:CD2	2.95	0.45
1:A:120:ILE:HG21	1:A:125:ILE:CG1	2.47	0.44
2:B:203:LEU:O	2:B:204:SER:OG	2.30	0.44
2:B:411:MET:HG2	2:B:411:MET:H	1.53	0.44
3:C:495:VAL:HG23	3:C:500:TRP:CH2	2.49	0.44
4:D:147:ARG:O	4:D:151:VAL:HG23	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:238:GLN:HE22	4:D:318:ARG:NH1	2.15	0.44
4:D:299:ASP:OD1	4:D:301:ALA:HB3	2.16	0.44
5:E:84:THR:O	5:E:90:ILE:HD11	2.18	0.44
5:E:184:ALA:O	5:E:188:LEU:CB	2.64	0.44
6:F:83:GLN:OE1	6:F:515:ASN:ND2	2.50	0.44
6:F:122:PHE:CD1	6:F:447:PHE:HD1	2.35	0.44
6:F:539:SER:HB2	6:F:542:LYS:HD3	2.00	0.44
7:G:438:ILE:N	7:G:438:ILE:HD12	2.32	0.44
1:I:118:ASN:C	1:I:119:LYS:CD	2.88	0.44
3:K:250:LEU:CG	3:K:301:VAL:CB	2.92	0.44
3:K:450:GLU:C	3:K:453:PRO:HD2	2.42	0.44
4:L:181:ILE:HD11	4:L:375:VAL:HG23	1.98	0.44
4:L:524:ILE:CB	7:O:52:LEU:O	2.64	0.44
6:N:122:PHE:CD1	6:N:447:PHE:HD1	2.35	0.44
6:N:167:THR:CB	6:N:168:GLU:HB3	2.47	0.44
6:N:216:ASP:C	6:N:217:HIS:CG	2.96	0.44
6:N:422:LEU:HD13	6:N:517:ILE:HD11	1.98	0.44
6:N:497:ASP:CG	6:N:498:SER:N	2.74	0.44
7:O:109:MET:SD	7:O:514:THR:CB	3.05	0.44
7:O:123:HIS:ND1	7:O:123:HIS:N	2.65	0.44
8:P:428:ILE:CD1	8:P:478:LEU:HD13	2.48	0.44
1:a:1029:ASN:HD22	1:a:1538:ILE:HG23	1.80	0.44
1:a:1086:LEU:HD21	1:a:1101:VAL:HG12	1.99	0.44
1:a:1145:SER:C	1:a:1147:SER:H	2.25	0.44
2:b:1424:GLY:O	2:b:1427:SER:OG	2.33	0.44
4:d:1392:ARG:HD3	4:d:1392:ARG:C	2.42	0.44
6:f:1167:THR:CA	6:f:1168:GLU:CB	2.95	0.44
8:h:1251:THR:O	8:h:1252:CYS:C	2.59	0.44
2:j:1088:VAL:HG12	2:j:1089:GLY:N	2.32	0.44
2:j:1234:ALA:HA	2:j:1325:VAL:HB	1.99	0.44
2:j:1326:VAL:HG13	3:k:1304:LEU:HD22	1.99	0.44
2:j:1456:VAL:HG13	2:j:1457:SER:N	2.32	0.44
3:k:1084:THR:O	3:k:1085:GLN:C	2.60	0.44
3:k:1306:GLN:O	3:k:1307:HIS:C	2.59	0.44
3:k:1414:PRO:HG2	3:k:1481:THR:CG2	2.47	0.44
4:l:1038:SER:HB3	4:l:1046:LYS:HZ2	1.83	0.44
4:l:1182:SER:HB2	4:l:1187:LYS:CE	2.46	0.44
4:l:1226:PRO:CG	4:l:1311:MET:HG2	2.47	0.44
6:n:1143:LEU:CD1	6:n:1145:ASN:CB	2.96	0.44
6:n:1153:VAL:CB	6:n:1507:TRP:CB	2.94	0.44
6:n:1296:ILE:HG12	6:n:1317:LEU:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1291:ASN:HA	7:o:1312:ILE:HB	1.97	0.44
8:p:1071:MET:O	8:p:1075:LEU:HG	2.17	0.44
8:p:1146:VAL:C	8:p:1148:GLY:N	2.75	0.44
8:p:1424:GLY:O	8:p:1428:ILE:HG13	2.18	0.44
1:A:221:GLY:HA2	1:A:382:SER:CB	2.42	0.44
1:A:419:VAL:HG13	1:A:425:VAL:HG21	1.98	0.44
1:A:433:LEU:O	1:A:437:ALA:CA	2.64	0.44
2:B:37:LEU:CB	2:B:444:LEU:HD13	2.47	0.44
3:C:306:GLN:O	3:C:307:HIS:C	2.59	0.44
4:D:94:THR:C	4:D:96:VAL:H	2.25	0.44
5:E:271:ILE:CB	5:E:362:ILE:HA	2.48	0.44
5:E:387:THR:HA	5:E:388:THR:HA	1.61	0.44
6:F:153:VAL:CB	6:F:507:TRP:CB	2.94	0.44
6:F:433:LYS:HG3	6:F:444:ILE:CG2	2.46	0.44
7:G:109:MET:SD	7:G:514:THR:CB	3.05	0.44
7:G:241:ILE:HD12	7:G:330:VAL:HG21	1.98	0.44
8:H:256:ILE:HD13	8:H:280:GLU:OE1	2.17	0.44
1:I:112:ALA:HB1	1:I:539:LEU:HD21	1.98	0.44
2:J:370:ARG:O	2:J:372:ALA:N	2.50	0.44
3:K:414:PRO:HG2	3:K:481:THR:CG2	2.47	0.44
4:L:521:ILE:CG2	7:O:52:LEU:N	2.78	0.44
5:M:45:GLU:C	5:M:47:LYS:N	2.75	0.44
5:M:73:ILE:O	5:M:74:LEU:HD22	2.17	0.44
5:M:84:THR:HA	5:M:418:GLU:OE1	2.17	0.44
6:N:90:GLY:O	6:N:94:VAL:CG2	2.34	0.44
6:N:214:VAL:HG22	6:N:377:THR:OG1	2.18	0.44
7:O:159:GLU:O	7:O:179:VAL:HG11	2.17	0.44
7:O:241:ILE:HD12	7:O:330:VAL:CG2	2.48	0.44
8:P:62:ILE:HD13	8:P:63:ILE:N	2.32	0.44
2:b:1029:VAL:C	2:b:1033:VAL:CG2	2.88	0.44
2:b:1389:SER:O	2:b:1393:GLN:HG3	2.17	0.44
3:c:1414:PRO:HG2	3:c:1481:THR:CG2	2.47	0.44
5:e:1239:LEU:HD23	5:e:1240:ILE:N	2.31	0.44
6:f:1122:PHE:CD1	6:f:1447:PHE:HD1	2.35	0.44
6:f:1141:THR:CB	6:f:1409:LYS:HG3	2.45	0.44
6:f:1146:ASP:O	6:f:1147:ARG:C	2.59	0.44
7:g:1058:GLN:NE2	8:p:1006:PRO:O	2.50	0.44
7:g:1241:ILE:HD12	7:g:1330:VAL:CG2	2.48	0.44
7:g:1382:ALA:O	7:g:1386:ILE:HG13	2.18	0.44
8:h:1332:LEU:O	8:h:1335:VAL:HB	2.17	0.44
1:i:1120:ILE:HG21	1:i:1125:ILE:CG1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1210:GLY:O	1:i:1211:LYS:CB	2.64	0.44
1:i:1218:LEU:HD23	1:i:1385:ILE:HG12	1.98	0.44
2:j:1088:VAL:CG1	2:j:1393:GLN:HE22	2.22	0.44
2:j:1417:THR:HG23	2:j:1418:GLU:N	2.33	0.44
2:j:1424:GLY:O	2:j:1427:SER:OG	2.33	0.44
2:j:1513:ASN:C	2:j:1514:ILE:HD13	2.36	0.44
3:k:1508:GLN:CG	8:p:1215:GLY:HA2	2.47	0.44
4:l:1313:VAL:HG11	4:l:1361:VAL:HG21	1.99	0.44
5:m:1083:ILE:HG13	5:m:1414:MET:HE2	1.99	0.44
5:m:1084:THR:O	5:m:1090:ILE:HD11	2.18	0.44
6:n:1083:GLN:OE1	6:n:1515:ASN:ND2	2.51	0.44
6:n:1178:VAL:HG21	6:n:1402:VAL:CG1	2.47	0.44
6:n:1330:LEU:HB3	6:n:1375:SER:OG	2.17	0.44
7:o:1241:ILE:HD12	7:o:1330:VAL:CG2	2.48	0.44
8:p:1256:ILE:HD13	8:p:1280:GLU:OE1	2.17	0.44
2:B:263:LYS:HZ1	3:C:266:GLU:HG2	1.82	0.44
2:B:278:LYS:C	2:B:280:GLY:H	2.25	0.44
2:B:370:ARG:O	2:B:371:GLY:C	2.61	0.44
4:D:370:ASN:O	4:D:373:PRO:HD3	2.18	0.44
5:E:83:ILE:HG13	5:E:414:MET:HE2	1.99	0.44
5:E:267:VAL:HG12	5:E:268:LYS:N	2.32	0.44
5:E:351:LEU:HD22	5:E:352:GLU:H	1.82	0.44
6:F:216:ASP:C	6:F:217:HIS:CG	2.96	0.44
7:G:329:ALA:HA	7:G:371:ALA:HB1	1.98	0.44
8:H:428:ILE:CD1	8:H:478:LEU:HD13	2.48	0.44
1:I:90:GLN:CD	1:I:101:VAL:HG21	2.42	0.44
2:J:224:LYS:O	2:J:343:ILE:HA	2.16	0.44
2:J:278:LYS:C	2:J:280:GLY:H	2.25	0.44
3:K:306:GLN:O	3:K:307:HIS:C	2.59	0.44
3:K:457:ILE:HD13	3:K:467:LEU:CD1	2.19	0.44
4:L:138:MET:HE3	4:L:138:MET:HB3	1.88	0.44
4:L:392:ARG:HD3	4:L:392:ARG:C	2.42	0.44
5:M:189:GLY:O	5:M:190:SER:HB2	2.17	0.44
5:M:340:LEU:HD23	5:M:340:LEU:H	1.81	0.44
6:N:330:LEU:HB3	6:N:375:SER:OG	2.17	0.44
6:N:420:ILE:HG22	6:N:482:ASP:CG	2.41	0.44
7:O:244:LEU:HB3	7:O:246:VAL:HG22	1.99	0.44
2:b:1234:ALA:HA	2:b:1325:VAL:HB	1.99	0.44
2:b:1250:PHE:HA	6:f:1250:GLY:C	2.42	0.44
2:b:1482:MET:SD	2:b:1487:ILE:HB	2.57	0.44
5:e:1073:ILE:O	5:e:1074:LEU:HD22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1043:LEU:HD21	6:f:1161:LYS:CA	2.42	0.44
8:h:1416:GLY:C	8:h:1418:LYS:H	2.25	0.44
8:h:1426:THR:HG23	8:h:1427:GLU:N	2.31	0.44
1:i:1055:ASP:O	1:i:1057:ILE:N	2.50	0.44
2:j:1116:HIS:HA	2:j:1117:PRO:HD3	1.74	0.44
2:j:1326:VAL:CG2	3:k:1304:LEU:HD22	2.44	0.44
3:k:1450:GLU:C	3:k:1453:PRO:HD2	2.43	0.44
4:l:1392:ARG:HD3	4:l:1392:ARG:C	2.42	0.44
5:m:1351:LEU:HD22	5:m:1352:GLU:H	1.83	0.44
5:m:1416:VAL:C	5:m:1418:GLU:H	2.25	0.44
5:m:1429:VAL:O	5:m:1432:ASN:HB2	2.18	0.44
5:m:1555:ILE:O	6:n:1046:LEU:HA	2.18	0.44
6:n:1133:LEU:CD1	6:n:1422:LEU:HD21	2.28	0.44
6:n:1195:GLU:OE1	6:n:1197:MET:CE	2.65	0.44
6:n:1352:GLY:C	6:n:1367:VAL:HG12	2.40	0.44
7:o:1241:ILE:HD12	7:o:1330:VAL:HG21	1.98	0.44
7:o:1438:ILE:HD12	7:o:1438:ILE:N	2.32	0.44
7:o:1448:VAL:HA	7:o:1451:ARG:HB2	2.00	0.44
8:p:1101:ASN:HD22	8:p:1101:ASN:N	2.16	0.44
8:p:1204:VAL:CG1	8:p:1405:VAL:CG1	2.92	0.44
8:p:1252:CYS:HB2	8:p:1343:ARG:N	2.32	0.44
8:p:1416:GLY:C	8:p:1418:LYS:H	2.25	0.44
1:A:90:GLN:HE21	1:A:527:SER:HB3	1.83	0.44
1:A:145:SER:C	1:A:147:SER:H	2.26	0.44
2:B:417:THR:HG23	2:B:418:GLU:N	2.33	0.44
4:D:313:VAL:HG11	4:D:361:VAL:HG21	1.99	0.44
5:E:37:ASN:HB2	6:N:114:HIS:HA	2.00	0.44
5:E:45:GLU:C	5:E:47:LYS:N	2.75	0.44
5:E:340:LEU:HD23	5:E:340:LEU:H	1.81	0.44
6:F:101:LEU:O	6:F:101:LEU:HD23	2.17	0.44
7:G:424:LEU:O	7:G:425:ARG:C	2.61	0.44
8:H:134:ALA:O	8:H:138:THR:HG23	2.17	0.44
1:I:54:VAL:HG12	1:I:56:ASP:N	2.29	0.44
1:I:91:ASP:HA	1:I:95:GLY:HA2	2.00	0.44
4:L:417:PRO:O	4:L:421:ILE:HG12	2.16	0.44
6:N:101:LEU:O	6:N:101:LEU:HD23	2.17	0.44
6:N:159:LEU:CA	6:N:164:ALA:HB2	2.41	0.44
8:P:101:ASN:N	8:P:101:ASN:HD22	2.16	0.44
8:P:209:VAL:CG2	8:P:386:LEU:HD11	2.35	0.44
8:P:332:LEU:O	8:P:335:VAL:HB	2.17	0.44
8:P:416:GLY:C	8:P:418:LYS:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:424:GLY:O	8:P:425:ALA:C	2.61	0.44
1:a:1129:PHE:CD2	1:a:1129:PHE:N	2.84	0.44
1:a:1143:VAL:HG11	1:a:1425:VAL:HG22	1.99	0.44
1:a:1256:MET:HE3	1:a:1260:VAL:O	2.17	0.44
2:b:1217:LYS:HB3	2:b:1217:LYS:HE2	1.75	0.44
2:b:1370:ARG:O	2:b:1371:GLY:C	2.61	0.44
2:b:1370:ARG:O	2:b:1372:ALA:N	2.50	0.44
2:b:1417:THR:HG23	2:b:1418:GLU:N	2.33	0.44
3:c:1222:GLY:HA3	3:c:1368:LEU:O	2.17	0.44
3:c:1467:LEU:HD21	3:c:1491:ILE:CG2	2.46	0.44
4:d:1038:SER:HB3	4:d:1046:LYS:HZ2	1.82	0.44
4:d:1370:ASN:O	4:d:1373:PRO:HD3	2.18	0.44
5:e:1034:ASP:CA	6:n:1117:ILE:HD12	2.41	0.44
5:e:1429:VAL:O	5:e:1432:ASN:HB2	2.18	0.44
6:f:1160:THR:N	6:f:1164:ALA:HB3	2.31	0.44
6:f:1166:LEU:CD2	6:f:1205:LYS:HA	2.47	0.44
6:f:1204:PRO:C	6:f:1207:THR:HG23	2.42	0.44
6:f:1433:LYS:HB3	6:f:1444:ILE:HG13	2.00	0.44
6:f:1539:SER:HB2	6:f:1542:LYS:HD3	2.00	0.44
7:g:1082:THR:HG21	7:g:1517:ILE:HD11	1.99	0.44
7:g:1235:LYS:CB	7:g:1352:PHE:C	2.91	0.44
8:h:1071:MET:O	8:h:1075:LEU:HG	2.17	0.44
8:h:1311:HIS:CG	8:h:1312:TYR:N	2.86	0.44
8:h:1424:GLY:O	8:h:1428:ILE:HG13	2.17	0.44
1:i:1112:ALA:HB1	1:i:1539:LEU:HD21	1.98	0.44
2:j:1074:ALA:O	2:j:1078:VAL:HG23	2.17	0.44
2:j:1116:HIS:CE1	2:j:1118:GLN:CB	2.99	0.44
3:k:1051:PRO:O	3:k:1052:MET:CG	2.63	0.44
3:k:1310:LEU:HD21	3:k:1316:VAL:HG22	1.99	0.44
6:n:1016:ASP:OD1	6:n:1016:ASP:N	2.36	0.44
6:n:1043:LEU:HD21	6:n:1161:LYS:CA	2.42	0.44
6:n:1079:ALA:HB1	6:n:1523:ILE:HD11	1.98	0.44
6:n:1101:LEU:O	6:n:1101:LEU:HD23	2.17	0.44
6:n:1167:THR:CB	6:n:1168:GLU:HB3	2.47	0.44
6:n:1212:GLY:O	6:n:1213:LEU:C	2.60	0.44
6:n:1399:LEU:HD12	6:n:1399:LEU:O	2.17	0.44
8:p:1424:GLY:O	8:p:1425:ALA:C	2.61	0.44
1:A:62:VAL:O	1:A:397:GLU:HG3	2.17	0.44
3:C:463:ASP:O	3:C:467:LEU:HB2	2.18	0.44
4:D:181:ILE:HD11	4:D:375:VAL:HG23	1.98	0.44
5:E:276:PHE:HB3	5:E:327:PHE:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:456:GLU:HA	5:E:456:GLU:OE2	2.17	0.44
6:F:36:ASN:HB3	6:F:57:LYS:HZ3	0.68	0.44
6:F:89:ASP:OD1	9:F:601:ADP:O1B	2.35	0.44
6:F:114:HIS:CD2	5:M:37:ASN:HD22	2.35	0.44
6:F:212:GLY:O	6:F:213:LEU:C	2.60	0.44
6:F:330:LEU:HB3	6:F:375:SER:OG	2.17	0.44
7:G:226:TYR:CE1	7:G:229:PHE:CB	3.00	0.44
7:G:241:ILE:HD12	7:G:330:VAL:CG2	2.48	0.44
7:G:244:LEU:HB3	7:G:246:VAL:HG22	1.99	0.44
8:H:6:PRO:CB	8:H:7:GLN:CA	2.93	0.44
8:H:186:VAL:C	8:H:188:HIS:H	2.26	0.44
8:H:226:MET:HE1	8:H:328:GLU:CG	2.47	0.44
8:H:416:GLY:C	8:H:418:LYS:H	2.25	0.44
8:H:424:GLY:O	8:H:428:ILE:HG13	2.18	0.44
1:I:183:ALA:CB	1:I:383:SER:HB2	2.47	0.44
2:J:74:ALA:O	2:J:78:VAL:HG23	2.17	0.44
2:J:243:VAL:HG12	2:J:245:ILE:N	2.29	0.44
4:L:134:ILE:HB	4:L:421:ILE:CD1	2.48	0.44
4:L:219:ALA:HB1	4:L:221:LYS:HZ2	1.83	0.44
4:L:238:GLN:HE22	4:L:318:ARG:NH1	2.15	0.44
4:L:370:ASN:O	4:L:373:PRO:HD3	2.18	0.44
5:M:340:LEU:HA	5:M:341:PRO:HD3	1.83	0.44
5:M:373:LYS:HE2	6:N:311:LYS:NZ	2.31	0.44
6:N:141:THR:CB	6:N:409:LYS:HG3	2.45	0.44
6:N:503:ILE:O	6:N:503:ILE:HG22	2.18	0.44
7:O:170:LEU:O	7:O:170:LEU:CD2	2.58	0.44
7:O:186:VAL:HG21	7:O:400:VAL:HG22	1.98	0.44
8:P:113:VAL:CG1	8:P:451:GLN:HG3	2.37	0.44
8:P:155:ASP:HB3	8:P:156:LYS:H	1.48	0.44
8:P:256:ILE:HD13	8:P:280:GLU:OE1	2.17	0.44
8:P:329:LEU:HD23	8:P:329:LEU:O	2.17	0.44
1:a:1055:ASP:O	1:a:1057:ILE:N	2.50	0.44
2:b:1036:THR:HG22	2:b:1042:MET:O	2.18	0.44
2:b:1263:LYS:NZ	3:c:1266:GLU:CG	2.81	0.44
3:c:1521:LEU:C	3:c:1523:VAL:H	2.26	0.44
5:e:1150:PHE:CD1	5:e:1472:PHE:HE2	2.36	0.44
6:f:1221:HIS:CD2	6:f:1224:MET:SD	3.09	0.44
6:f:1436:ALA:HA	6:f:1437:LYS:HA	1.66	0.44
7:g:1204:ILE:HA	7:g:1205:PRO:HD3	1.79	0.44
7:g:1346:LEU:HD23	7:g:1346:LEU:N	2.33	0.44
8:h:1106:LEU:O	8:h:1107:ALA:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1250:PHE:N	8:h:1250:PHE:CD2	2.86	0.44
8:h:1256:ILE:HD13	8:h:1280:GLU:OE1	2.17	0.44
8:h:1393:ASN:O	8:h:1397:ILE:HG13	2.18	0.44
1:i:1086:LEU:HD21	1:i:1101:VAL:HG12	1.99	0.44
1:i:1545:ILE:HG21	5:m:1094:MET:HA	2.00	0.44
2:j:1036:THR:HG22	2:j:1042:MET:O	2.18	0.44
2:j:1422:ILE:O	2:j:1423:ASP:C	2.61	0.44
3:k:1467:LEU:HD21	3:k:1491:ILE:CG2	2.46	0.44
9:k:2101:ADP:O1B	9:k:2101:ADP:O2A	2.36	0.44
4:l:1370:ASN:O	4:l:1373:PRO:HD3	2.18	0.44
6:n:1122:PHE:CD1	6:n:1447:PHE:HD1	2.35	0.44
7:o:1235:LYS:CB	7:o:1352:PHE:C	2.91	0.44
8:p:1175:GLU:H	8:p:1175:GLU:HG3	1.45	0.44
1:A:17:GLY:HA2	1:A:546:THR:O	2.18	0.44
1:A:112:ALA:HB1	1:A:539:LEU:HD21	1.98	0.44
2:B:36:THR:HG22	2:B:42:MET:O	2.18	0.44
2:B:186:GLY:HA2	2:B:187:SER:HA	1.47	0.44
2:B:389:SER:O	2:B:393:GLN:HG3	2.17	0.44
4:D:7:SER:HA	7:G:35:ALA:HB1	2.00	0.44
4:D:273:ASN:ND2	7:G:268:GLN:HE22	2.15	0.44
4:D:401:ILE:C	4:D:401:ILE:HD12	2.43	0.44
5:E:429:VAL:O	5:E:432:ASN:HB2	2.18	0.44
6:F:166:LEU:CD2	6:F:205:LYS:HA	2.47	0.44
8:H:113:VAL:CG1	8:H:451:GLN:HG3	2.37	0.44
8:H:482:HIS:O	8:H:483:ASN:C	2.58	0.44
1:I:16:GLY:CA	1:I:548:ASP:HB3	2.44	0.44
1:I:17:GLY:HA2	1:I:546:THR:O	2.18	0.44
1:I:90:GLN:HE21	1:I:527:SER:HB3	1.83	0.44
1:I:120:ILE:CG2	1:I:121:HIS:N	2.81	0.44
1:I:532:LEU:O	1:I:536:VAL:HG23	2.16	0.44
1:I:538:ILE:HA	1:I:541:ILE:HD12	2.00	0.44
2:J:250:PHE:CB	6:N:250:GLY:O	2.65	0.44
3:K:219:VAL:HG13	3:K:379:ILE:HD12	1.99	0.44
6:N:146:ASP:O	6:N:147:ARG:C	2.59	0.44
6:N:209:PHE:CE2	6:N:376:CYS:SG	2.97	0.44
7:O:454:CYS:HB2	7:O:461:ALA:HB1	1.98	0.44
8:P:106:LEU:O	8:P:107:ALA:C	2.61	0.44
1:a:1120:ILE:HG21	1:a:1125:ILE:CG1	2.48	0.44
2:b:1074:ALA:O	2:b:1078:VAL:HG23	2.17	0.44
2:b:1293:TYR:O	2:b:1297:LEU:HD23	2.17	0.44
3:c:1050:ASP:OD1	3:c:1054:GLY:HA3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:1084:THR:O	3:c:1085:GLN:C	2.60	0.44
3:c:1310:LEU:HD21	3:c:1316:VAL:HG22	1.99	0.44
4:d:1098:ILE:HG12	4:d:1098:ILE:H	1.57	0.44
4:d:1185:ASN:H	4:d:1187:LYS:N	2.14	0.44
5:e:1083:ILE:HG13	5:e:1414:MET:HE2	1.99	0.44
5:e:1132:GLN:HA	5:e:1132:GLN:NE2	2.32	0.44
5:e:1189:GLY:O	5:e:1190:SER:HB2	2.17	0.44
5:e:1255:PRO:HG3	5:e:1336:LEU:CB	2.47	0.44
5:e:1416:VAL:C	5:e:1418:GLU:H	2.25	0.44
5:e:1456:GLU:HA	5:e:1456:GLU:OE2	2.18	0.44
5:e:1483:LEU:HD21	9:e:1601:ADP:N3	2.33	0.44
5:e:1544:LEU:HD23	6:f:1384:THR:CG2	2.47	0.44
6:f:1083:GLN:OE1	6:f:1515:ASN:ND2	2.51	0.44
6:f:1171:THR:CB	6:f:1172:PRO:HD3	2.48	0.44
6:f:1212:GLY:O	6:f:1213:LEU:C	2.60	0.44
7:g:1303:ALA:O	7:g:1307:PHE:CD2	2.70	0.44
8:h:1101:ASN:HD22	8:h:1101:ASN:N	2.16	0.44
1:i:1017:GLY:HA2	1:i:1546:THR:O	2.18	0.44
3:k:1463:ASP:O	3:k:1467:LEU:HB2	2.18	0.44
4:l:1181:ILE:HD11	4:l:1375:VAL:HG23	1.98	0.44
4:l:1242:SER:HB3	4:l:1298:ASN:HB2	2.00	0.44
4:l:1292:ILE:HG13	4:l:1293:LEU:C	2.42	0.44
4:l:1418:GLU:HG2	4:l:1451:PRO:HD3	1.99	0.44
5:m:1245:LEU:HD22	5:m:1245:LEU:HA	1.80	0.44
5:m:1556:ILE:HG23	6:n:1047:VAL:C	2.43	0.44
6:n:1166:LEU:CD2	6:n:1205:LYS:HA	2.47	0.44
6:n:1190:ASP:O	6:n:1193:MET:HG2	2.18	0.44
6:n:1209:PHE:HZ	6:n:1211:LYS:HD2	1.83	0.44
6:n:1420:ILE:HG22	6:n:1482:ASP:CG	2.41	0.44
8:p:1096:MET:CB	8:p:1515:GLU:OE1	2.65	0.44
1:A:90:GLN:CD	1:A:101:VAL:HG21	2.42	0.44
1:A:120:ILE:HG21	1:A:125:ILE:HG12	2.00	0.44
2:B:482:MET:SD	2:B:487:ILE:HB	2.58	0.44
3:C:114:LYS:CA	3:C:115:ASN:CB	2.94	0.44
3:C:436:GLY:C	3:C:438:GLN:H	2.24	0.44
3:C:521:LEU:C	3:C:523:VAL:H	2.26	0.44
6:F:79:ALA:HB1	6:F:523:ILE:HD11	1.98	0.44
1:I:120:ILE:HG21	1:I:125:ILE:CG1	2.48	0.44
1:I:419:VAL:HA	1:I:420:PRO:HD3	1.86	0.44
2:J:8:ASP:OD1	2:J:8:ASP:N	2.51	0.44
2:J:231:ILE:H	2:J:231:ILE:HG12	1.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:292:ILE:HG13	4:L:293:LEU:C	2.42	0.44
4:L:401:ILE:C	4:L:401:ILE:HD12	2.43	0.44
5:M:351:LEU:HD22	5:M:352:GLU:H	1.83	0.44
6:N:83:GLN:OE1	6:N:515:ASN:ND2	2.51	0.44
6:N:195:GLU:HG2	6:N:197:MET:CE	2.48	0.44
8:P:15:LYS:HG3	8:P:16:GLN:H	1.83	0.44
8:P:186:VAL:C	8:P:188:HIS:H	2.26	0.44
1:a:1090:GLN:CD	1:a:1101:VAL:HG21	2.42	0.44
1:a:1458:ILE:HD12	1:a:1458:ILE:H	1.81	0.44
1:a:1532:LEU:HD22	1:a:1536:VAL:CG2	2.48	0.44
1:a:1532:LEU:O	1:a:1536:VAL:HG23	2.16	0.44
2:b:1169:ASP:HB2	2:b:1172:HIS:HB2	2.00	0.44
2:b:1326:VAL:HG13	3:c:1304:LEU:HD22	2.00	0.44
3:c:1219:VAL:HG13	3:c:1379:ILE:HD12	1.99	0.44
3:c:1219:VAL:O	3:c:1219:VAL:HG12	2.18	0.44
3:c:1436:GLY:C	3:c:1438:GLN:H	2.24	0.44
3:c:1463:ASP:O	3:c:1467:LEU:HB2	2.18	0.44
4:d:1184:GLU:HA	4:d:1187:LYS:HG2	2.00	0.44
6:f:1195:GLU:OE1	6:f:1197:MET:CE	2.65	0.44
7:g:1492:PHE:CB	7:g:1497:TRP:HZ2	2.31	0.44
8:h:1186:VAL:C	8:h:1188:HIS:H	2.26	0.44
8:h:1291:ILE:HD12	8:h:1347:PRO:HG2	1.96	0.44
8:h:1386:LEU:H	8:h:1386:LEU:HD12	1.81	0.44
1:i:1066:GLY:CA	1:i:1099:THR:HG22	2.47	0.44
1:i:1121:HIS:HA	1:i:1122:PRO:HD2	1.81	0.44
1:i:1129:PHE:CB	1:i:1532:LEU:HD21	2.48	0.44
2:j:1032:LEU:HD11	6:n:1532:GLU:CD	2.43	0.44
2:j:1210:GLU:CB	2:j:1357:SER:O	2.64	0.44
2:j:1278:LYS:C	2:j:1280:GLY:H	2.25	0.44
2:j:1401:VAL:HG22	2:j:1402:LEU:N	2.33	0.44
4:l:1135:LEU:HD22	4:l:1135:LEU:HA	1.87	0.44
5:m:1280:LYS:HA	5:m:1281:PRO:HD3	1.80	0.44
6:n:1143:LEU:HD21	6:n:1145:ASN:HB3	1.97	0.44
6:n:1506:ILE:HD13	9:n:1601:ADP:C2	2.52	0.44
1:A:350:PHE:HE2	1:A:354:TYR:CB	2.16	0.44
1:A:458:ILE:HD12	1:A:458:ILE:H	1.82	0.44
2:B:141:ASP:CG	2:B:142:ASN:N	2.75	0.44
3:C:28:ALA:HB2	3:C:74:ALA:O	2.18	0.44
4:D:44:MET:HE3	8:H:531:ALA:HB2	1.99	0.44
4:D:134:ILE:HB	4:D:421:ILE:CD1	2.48	0.44
4:D:234:ILE:HB	4:D:345:ASP:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:447:LEU:C	4:D:449:VAL:H	2.26	0.44
5:E:416:VAL:C	5:E:418:GLU:H	2.25	0.44
5:E:492:ILE:CD1	2:J:115:ILE:HG12	2.45	0.44
6:F:174:VAL:O	6:F:178:VAL:HG23	2.18	0.44
7:G:123:HIS:ND1	7:G:123:HIS:N	2.65	0.44
7:G:235:LYS:CB	7:G:352:PHE:C	2.91	0.44
8:H:106:LEU:O	8:H:107:ALA:C	2.61	0.44
8:H:243:LYS:HD3	8:H:243:LYS:HA	1.87	0.44
8:H:393:ASN:O	8:H:397:ILE:HG13	2.18	0.44
1:I:256:MET:HE3	1:I:260:VAL:O	2.17	0.44
2:J:37:LEU:CB	2:J:444:LEU:HD13	2.47	0.44
2:J:92:THR:HA	2:J:95:VAL:HG23	2.00	0.44
2:J:482:MET:SD	2:J:487:ILE:HB	2.57	0.44
5:M:255:PRO:HG3	5:M:336:LEU:CB	2.47	0.44
6:N:124:ILE:HB	6:N:444:ILE:CD1	2.48	0.44
6:N:370:ASN:N	6:N:370:ASN:HD22	2.14	0.44
6:N:422:LEU:O	6:N:426:LEU:HB2	2.17	0.44
7:O:162:ALA:CB	7:O:179:VAL:HG13	2.47	0.44
7:O:282:LEU:HD23	7:O:303:ALA:O	2.17	0.44
2:b:1092:THR:HA	2:b:1095:VAL:HG23	2.00	0.44
2:b:1100:ALA:O	2:b:1104:ARG:HG3	2.18	0.44
2:b:1226:ILE:HG13	2:b:1282:ASN:OD1	2.18	0.44
3:c:1306:GLN:O	3:c:1307:HIS:C	2.59	0.44
3:c:1441:PRO:O	3:c:1444:ALA:HB3	2.18	0.44
3:c:1450:GLU:C	3:c:1453:PRO:HD2	2.43	0.44
3:c:1483:GLY:O	3:c:1491:ILE:HB	2.18	0.44
4:d:1161:LYS:HA	4:d:1161:LYS:HD2	1.66	0.44
4:d:1242:SER:HB3	4:d:1298:ASN:HB2	2.00	0.44
4:d:1401:ILE:C	4:d:1401:ILE:HD12	2.43	0.44
5:e:1245:LEU:CD1	5:e:1247:LYS:H	2.25	0.44
5:e:1276:PHE:HB3	5:e:1327:PHE:HA	2.00	0.44
5:e:1439:VAL:HB	5:e:1528:VAL:HG13	1.99	0.44
6:f:1101:LEU:O	6:f:1101:LEU:HD23	2.17	0.44
6:f:1178:VAL:HG21	6:f:1402:VAL:CG1	2.47	0.44
6:f:1195:GLU:HG2	6:f:1197:MET:CE	2.48	0.44
7:g:1126:MET:HA	7:g:1126:MET:CE	2.40	0.44
7:g:1178:PHE:CZ	7:g:1389:VAL:HG13	2.53	0.44
7:g:1226:TYR:CE1	7:g:1229:PHE:CB	3.00	0.44
7:g:1244:LEU:HB3	7:g:1246:VAL:HG22	1.99	0.44
8:h:1338:ALA:N	8:h:1353:GLY:HA3	2.33	0.44
1:i:1538:ILE:HA	1:i:1541:ILE:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1092:THR:HA	2:j:1095:VAL:HG23	2.00	0.44
2:j:1314:VAL:HG11	3:k:1232:PRO:HD3	2.00	0.44
2:j:1366:THR:O	2:j:1366:THR:OG1	2.30	0.44
3:k:1047:MET:HE3	3:k:1049:LEU:HD21	1.99	0.44
4:l:1041:PRO:CG	9:l:1601:ADP:C4	3.00	0.44
4:l:1192:ASN:HB2	7:o:1361:ARG:HH21	1.83	0.44
4:l:1401:ILE:C	4:l:1401:ILE:HD12	2.43	0.44
4:l:1499:GLN:HA	4:l:1500:PRO:HD3	1.86	0.44
5:m:1150:PHE:CD1	5:m:1472:PHE:HE2	2.35	0.44
5:m:1271:ILE:CB	5:m:1362:ILE:HA	2.48	0.44
5:m:1340:LEU:HA	5:m:1341:PRO:HD3	1.83	0.44
6:n:1204:PRO:C	6:n:1207:THR:HG23	2.42	0.44
6:n:1207:THR:HB	6:n:1380:ILE:HA	1.99	0.44
6:n:1214:VAL:HG22	6:n:1377:THR:OG1	2.18	0.44
6:n:1422:LEU:O	6:n:1426:LEU:HB2	2.17	0.44
6:n:1539:SER:O	6:n:1540:THR:C	2.58	0.44
7:o:1062:ILE:O	7:o:1062:ILE:HG23	2.17	0.44
7:o:1334:ILE:H	7:o:1334:ILE:HG12	1.65	0.44
1:A:129:PHE:CB	1:A:532:LEU:HD21	2.48	0.44
1:A:143:VAL:HG11	1:A:425:VAL:HG22	1.99	0.44
1:A:185:LEU:HD23	1:A:185:LEU:HA	1.85	0.44
1:A:267:PRO:CA	1:A:268:GLU:CB	2.95	0.44
2:B:231:ILE:HG22	2:B:232:LEU:H	1.83	0.44
2:B:234:ALA:HA	2:B:325:VAL:HB	1.99	0.44
2:B:237:THR:N	2:B:287:ARG:HD2	2.28	0.44
2:B:409:MET:HA	2:B:409:MET:CE	2.38	0.44
2:B:459:LEU:HD13	2:B:472:LEU:HD23	2.00	0.44
4:D:485:ARG:H	4:D:485:ARG:CD	2.27	0.44
5:E:107:LEU:CD2	5:E:544:LEU:HG	2.35	0.44
6:F:167:THR:CA	6:F:168:GLU:CB	2.95	0.44
6:F:178:VAL:HG21	6:F:402:VAL:CG1	2.47	0.44
6:F:190:ASP:O	6:F:193:MET:HG2	2.18	0.44
6:F:238:VAL:HG22	6:F:239:SER:H	1.83	0.44
6:F:451:LEU:O	6:F:455:PRO:CG	2.66	0.44
6:F:539:SER:O	6:F:540:THR:C	2.58	0.44
7:G:400:VAL:O	7:G:404:LEU:HB2	2.17	0.44
1:I:16:GLY:HA3	1:I:548:ASP:CB	2.45	0.44
1:I:267:PRO:CA	1:I:268:GLU:CB	2.95	0.44
2:J:100:ALA:O	2:J:104:ARG:HG3	2.18	0.44
2:J:389:SER:O	2:J:393:GLN:HG3	2.17	0.44
2:J:401:VAL:HG22	2:J:402:LEU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:50:ASP:OD1	3:K:54:GLY:HA3	2.18	0.44
3:K:350:THR:O	3:K:350:THR:HG22	2.18	0.44
3:K:483:GLY:O	3:K:491:ILE:HB	2.18	0.44
4:L:379:ILE:HD12	4:L:379:ILE:N	2.33	0.44
5:M:83:ILE:HG13	5:M:414:MET:HE2	1.99	0.44
5:M:150:PHE:CD1	5:M:472:PHE:HE2	2.35	0.44
6:N:70:SER:O	6:N:71:PRO:C	2.61	0.44
6:N:143:LEU:CD1	6:N:145:ASN:CB	2.96	0.44
6:N:204:PRO:C	6:N:207:THR:HG23	2.42	0.44
6:N:280:LEU:CD1	6:N:343:LEU:HD11	2.48	0.44
7:O:382:ALA:O	7:O:386:ILE:HG13	2.18	0.44
7:O:454:CYS:CB	7:O:461:ALA:HA	2.48	0.44
1:a:1210:GLY:O	1:a:1211:LYS:CB	2.64	0.44
2:b:1324:GLU:H	3:c:1311:LYS:NZ	2.15	0.44
3:c:1456:LEU:HD22	3:c:1456:LEU:HA	1.79	0.44
3:c:1495:VAL:HG23	3:c:1500:TRP:CH2	2.48	0.44
4:d:1024:ASN:ND2	4:d:1524:ILE:HD11	2.29	0.44
4:d:1077:MET:O	4:d:1081:VAL:HG23	2.18	0.44
4:d:1159:SER:C	4:d:1161:LYS:N	2.76	0.44
6:f:1216:ASP:C	6:f:1217:HIS:CG	2.96	0.44
6:f:1324:ASN:HA	6:f:1327:ARG:HB2	2.00	0.44
7:g:1412:GLY:C	7:g:1491:ASN:ND2	2.76	0.44
8:h:1113:VAL:CG1	8:h:1451:GLN:HG3	2.37	0.44
1:i:1073:LEU:O	1:i:1074:ASP:OD1	2.36	0.44
1:i:1145:SER:C	1:i:1147:SER:H	2.25	0.44
1:i:1183:ALA:CB	1:i:1383:SER:HB2	2.47	0.44
2:j:1459:LEU:HD13	2:j:1472:LEU:HD23	2.00	0.44
3:k:1483:GLY:O	3:k:1491:ILE:HB	2.18	0.44
4:l:1292:ILE:CG1	4:l:1293:LEU:HA	2.47	0.44
5:m:1132:GLN:HA	5:m:1132:GLN:NE2	2.33	0.44
6:n:1124:ILE:HB	6:n:1444:ILE:CD1	2.48	0.44
7:o:1178:PHE:CZ	7:o:1389:VAL:HG13	2.53	0.44
7:o:1244:LEU:HB3	7:o:1246:VAL:HG22	1.99	0.44
8:p:1464:ALA:HB2	8:p:1474:VAL:HG11	2.00	0.44
2:B:100:ALA:O	2:B:104:ARG:HG3	2.18	0.43
2:B:329:PHE:CD2	2:B:329:PHE:O	2.53	0.43
3:C:467:LEU:HD21	3:C:491:ILE:CG2	2.46	0.43
3:C:523:VAL:HG22	8:H:54:ILE:CD1	2.48	0.43
4:D:125:GLN:HB2	7:G:173:ASN:ND2	2.32	0.43
4:D:392:ARG:HD3	4:D:392:ARG:C	2.42	0.43
5:E:142:HIS:CD2	5:E:144:ILE:HB	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:352:GLU:CD	5:E:353:HIS:H	2.26	0.43
6:F:105:ALA:HA	6:F:108:PHE:CE2	2.54	0.43
6:F:195:GLU:OE1	6:F:197:MET:CE	2.65	0.43
6:F:422:LEU:O	6:F:426:LEU:HB2	2.17	0.43
7:G:62:ILE:O	7:G:62:ILE:HG23	2.17	0.43
7:G:303:ALA:O	7:G:307:PHE:CD2	2.70	0.43
7:G:454:CYS:HB2	7:G:461:ALA:HB1	1.98	0.43
8:H:71:MET:O	8:H:75:LEU:HG	2.17	0.43
8:H:424:GLY:O	8:H:425:ALA:C	2.61	0.43
1:I:120:ILE:HG21	1:I:125:ILE:HG12	2.00	0.43
1:I:143:VAL:HG11	1:I:425:VAL:HG22	1.99	0.43
2:J:93:THR:OG1	9:J:601:ADP:O3A	2.33	0.43
3:K:28:ALA:HB2	3:K:74:ALA:O	2.18	0.43
3:K:174:LEU:HG	3:K:219:VAL:CG2	2.47	0.43
5:M:132:GLN:HA	5:M:132:GLN:NE2	2.32	0.43
7:O:62:ILE:O	7:O:62:ILE:HG23	2.17	0.43
8:P:6:PRO:CB	8:P:7:GLN:HG3	2.38	0.43
8:P:291:ILE:HD12	8:P:347:PRO:HG2	1.96	0.43
1:a:1129:PHE:CB	1:a:1532:LEU:HD21	2.48	0.43
1:a:1183:ALA:CB	1:a:1383:SER:HB2	2.47	0.43
1:a:1350:PHE:O	1:a:1351:GLU:OE2	2.36	0.43
2:b:1282:ASN:CG	2:b:1303:ILE:HB	2.43	0.43
2:b:1459:LEU:HD13	2:b:1472:LEU:HD23	2.00	0.43
3:c:1129:LEU:HD21	3:c:1511:LYS:HA	2.00	0.43
5:e:1084:THR:O	5:e:1090:ILE:HD11	2.18	0.43
6:f:1152:GLN:HG2	6:f:1153:VAL:N	2.32	0.43
6:f:1190:ASP:O	6:f:1193:MET:HG2	2.18	0.43
6:f:1214:VAL:HG22	6:f:1377:THR:OG1	2.18	0.43
6:f:1280:LEU:CD1	6:f:1343:LEU:HD11	2.48	0.43
6:f:1370:ASN:HD22	6:f:1370:ASN:N	2.14	0.43
6:f:1422:LEU:O	6:f:1426:LEU:HB2	2.17	0.43
8:h:1247:VAL:HG22	8:h:1248:ALA:N	2.32	0.43
8:h:1329:LEU:HD23	8:h:1329:LEU:O	2.17	0.43
1:i:1090:GLN:CD	1:i:1101:VAL:HG21	2.42	0.43
2:j:1060:GLY:H	2:j:1093:THR:HG22	1.83	0.43
2:j:1282:ASN:CG	2:j:1303:ILE:HB	2.43	0.43
2:j:1482:MET:SD	2:j:1487:ILE:HB	2.57	0.43
3:k:1350:THR:HG22	3:k:1350:THR:O	2.18	0.43
4:l:1077:MET:O	4:l:1081:VAL:HG23	2.18	0.43
5:m:1073:ILE:HG12	5:m:1083:ILE:CG1	2.44	0.43
5:m:1118:GLY:HA2	9:m:1601:ADP:O2A	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1189:GLY:O	5:m:1190:SER:HB2	2.17	0.43
5:m:1255:PRO:HG3	5:m:1336:LEU:CB	2.47	0.43
5:m:1412:ASN:C	5:m:1414:MET:H	2.24	0.43
6:n:1083:GLN:HB2	6:n:1091:THR:HG22	2.00	0.43
6:n:1160:THR:N	6:n:1164:ALA:HB3	2.31	0.43
6:n:1167:THR:CB	6:n:1169:VAL:N	2.64	0.43
6:n:1195:GLU:HG2	6:n:1197:MET:CE	2.48	0.43
6:n:1221:HIS:HB2	6:n:1224:MET:CG	2.43	0.43
6:n:1238:VAL:HG22	6:n:1239:SER:H	1.83	0.43
6:n:1238:VAL:HG22	6:n:1239:SER:N	2.32	0.43
8:p:1035:ILE:HD13	8:p:1082:VAL:HG22	2.00	0.43
1:A:12:THR:CG2	5:E:97:ASP:H	2.24	0.43
2:B:88:VAL:HG12	2:B:89:GLY:N	2.32	0.43
2:B:282:ASN:CG	2:B:303:ILE:HB	2.43	0.43
2:B:370:ARG:O	2:B:372:ALA:N	2.50	0.43
3:C:51:PRO:O	3:C:52:MET:CG	2.63	0.43
3:C:219:VAL:O	3:C:219:VAL:HG12	2.18	0.43
3:C:224:LEU:C	3:C:225:LEU:HD23	2.43	0.43
3:C:441:PRO:O	3:C:444:ALA:HB3	2.18	0.43
3:C:450:GLU:C	3:C:453:PRO:HD2	2.43	0.43
4:D:523:ASP:C	7:G:51:ILE:HG23	2.39	0.43
5:E:170:ALA:N	5:E:523:LYS:HZ1	2.17	0.43
5:E:396:GLU:HA	5:E:397:GLN:HA	1.53	0.43
6:F:538:ARG:CG	6:F:538:ARG:NH1	2.72	0.43
7:G:30:ILE:O	7:G:33:CYS:HB3	2.19	0.43
7:G:346:LEU:HD23	7:G:346:LEU:N	2.33	0.43
8:H:15:LYS:HG3	8:H:16:GLN:H	1.83	0.43
1:I:25:ILE:HG22	1:I:26:ARG:N	2.32	0.43
2:J:15:ALA:O	2:J:16:GLU:C	2.60	0.43
3:K:48:LEU:HD21	3:K:64:ILE:HD13	1.99	0.43
3:K:84:THR:O	3:K:85:GLN:C	2.60	0.43
3:K:114:LYS:CA	3:K:115:ASN:CB	2.94	0.43
3:K:467:LEU:HD21	3:K:491:ILE:CG2	2.46	0.43
4:L:94:THR:HG23	9:L:601:ADP:O3B	2.18	0.43
4:L:236:LEU:O	4:L:332:PRO:HA	2.18	0.43
5:M:276:PHE:HB3	5:M:327:PHE:HA	2.00	0.43
9:M:601:ADP:C8	9:M:601:ADP:C4'	3.01	0.43
6:N:190:ASP:O	6:N:193:MET:HG2	2.18	0.43
6:N:234:LEU:HD12	6:N:280:LEU:HD11	2.00	0.43
7:O:492:PHE:CB	7:O:497:TRP:HZ2	2.31	0.43
1:a:1045:GLY:N	9:a:1601:ADP:H5'1	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1442:THR:HG23	2:b:1452:SER:CB	2.34	0.43
4:d:1103:LEU:HD22	4:d:1515:VAL:HG21	1.99	0.43
4:d:1134:ILE:HB	4:d:1421:ILE:CD1	2.48	0.43
5:e:1142:HIS:CD2	5:e:1144:ILE:HB	2.53	0.43
6:f:1011:GLU:OE2	6:f:1011:GLU:N	2.52	0.43
6:f:1105:ALA:HA	6:f:1108:PHE:CE2	2.54	0.43
6:f:1143:LEU:CD1	6:f:1145:ASN:CB	2.96	0.43
6:f:1185:GLN:HB3	6:f:1407:LYS:HD3	2.00	0.43
6:f:1451:LEU:O	6:f:1455:PRO:CG	2.66	0.43
7:g:1166:MET:O	7:g:1171:ILE:HB	2.18	0.43
7:g:1409:ILE:CG2	7:g:1410:VAL:N	2.82	0.43
7:g:1454:CYS:CB	7:g:1461:ALA:HA	2.48	0.43
1:i:1062:VAL:O	1:i:1397:GLU:HG3	2.17	0.43
1:i:1544:MET:HG3	5:m:1073:ILE:CG2	2.48	0.43
1:i:1555:ASP:HA	1:i:1556:PRO:HD3	1.90	0.43
3:k:1112:ILE:C	3:k:1114:LYS:N	2.74	0.43
3:k:1209:ILE:HG23	3:k:1382:ARG:HA	1.99	0.43
4:l:1184:GLU:HA	4:l:1187:LYS:HG2	2.00	0.43
5:m:1073:ILE:O	5:m:1074:LEU:HD22	2.18	0.43
5:m:1142:HIS:CD2	5:m:1144:ILE:HB	2.53	0.43
5:m:1431:ARG:HA	5:m:1434:VAL:HG12	2.00	0.43
6:n:1171:THR:CB	6:n:1172:PRO:HD3	2.48	0.43
6:n:1426:LEU:C	6:n:1426:LEU:HD13	2.44	0.43
6:n:1433:LYS:HG3	6:n:1444:ILE:CG2	2.46	0.43
7:o:1030:ILE:O	7:o:1033:CYS:HB3	2.19	0.43
7:o:1126:MET:HA	7:o:1126:MET:CE	2.40	0.43
1:A:532:LEU:HD22	1:A:536:VAL:CG2	2.48	0.43
9:B:601:ADP:O1A	9:B:601:ADP:O3'	2.29	0.43
3:C:10:ALA:HA	3:C:11:SER:HA	1.59	0.43
3:C:48:LEU:HD21	3:C:64:ILE:HD13	1.99	0.43
3:C:457:ILE:HD13	3:C:467:LEU:CD1	2.19	0.43
3:C:508:GLN:CG	8:H:215:GLY:HA2	2.46	0.43
4:D:146:ASP:HB2	4:D:149:GLN:HB2	2.00	0.43
4:D:184:GLU:HA	4:D:187:LYS:HG2	2.00	0.43
6:F:147:ARG:HH22	6:F:409:LYS:HA	1.84	0.43
6:F:280:LEU:CD1	6:F:343:LEU:HD11	2.48	0.43
7:G:412:GLY:C	7:G:491:ASN:ND2	2.76	0.43
7:G:448:VAL:HA	7:G:451:ARG:HB2	2.00	0.43
1:I:494:ARG:CB	1:I:496:SER:H	2.21	0.43
2:J:29:VAL:C	2:J:33:VAL:CG2	2.88	0.43
2:J:36:THR:HG22	2:J:42:MET:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:146:LYS:HD3	2:J:146:LYS:N	2.33	0.43
2:J:282:ASN:CG	2:J:303:ILE:HB	2.43	0.43
3:K:209:ILE:HG23	3:K:382:ARG:HA	1.99	0.43
3:K:463:ASP:O	3:K:467:LEU:HB2	2.18	0.43
4:L:517:SER:O	4:L:521:ILE:HG13	2.19	0.43
6:N:11:GLU:N	6:N:11:GLU:OE2	2.52	0.43
6:N:83:GLN:HB2	6:N:91:THR:HG22	2.00	0.43
6:N:105:ALA:HA	6:N:108:PHE:CE2	2.54	0.43
6:N:362:GLU:CG	6:N:364:PHE:CE2	2.93	0.43
7:O:73:LEU:C	7:O:73:LEU:HD13	2.44	0.43
7:O:165:ALA:CB	7:O:399:ILE:HG21	2.46	0.43
7:O:409:ILE:CG2	7:O:410:VAL:H	2.28	0.43
8:P:250:PHE:N	8:P:250:PHE:CD2	2.86	0.43
8:P:338:ALA:N	8:P:353:GLY:HA3	2.33	0.43
8:P:393:ASN:O	8:P:397:ILE:HG13	2.18	0.43
1:a:1187:VAL:O	1:a:1381:SER:CA	2.67	0.43
2:b:1037:LEU:CB	2:b:1444:LEU:HD13	2.47	0.43
2:b:1146:LYS:HD3	2:b:1146:LYS:N	2.34	0.43
2:b:1401:VAL:HG22	2:b:1402:LEU:N	2.33	0.43
3:c:1524:ASP:HB2	8:h:1051:ARG:CB	2.49	0.43
5:e:1170:ALA:N	5:e:1523:LYS:HZ1	2.17	0.43
5:e:1456:GLU:C	5:e:1458:ALA:H	2.26	0.43
6:f:1173:ILE:HD11	6:f:1209:PHE:N	2.32	0.43
6:f:1174:VAL:O	6:f:1178:VAL:HG23	2.18	0.43
6:f:1238:VAL:HG22	6:f:1239:SER:H	1.83	0.43
7:g:1062:ILE:O	7:g:1062:ILE:HG23	2.17	0.43
8:h:1339:THR:HA	8:h:1340:PRO:HD3	1.86	0.43
8:h:1482:HIS:O	8:h:1483:ASN:C	2.58	0.43
1:i:1115:LEU:HD23	1:i:1115:LEU:HA	1.80	0.43
1:i:1177:SER:O	1:i:1181:VAL:HG23	2.19	0.43
1:i:1418:VAL:CG1	1:i:1419:VAL:H	2.30	0.43
1:i:1460:LYS:O	1:i:1464:VAL:HG23	2.18	0.43
1:i:1550:GLU:HA	1:i:1551:PRO:HD3	1.88	0.43
2:j:1226:ILE:HG13	2:j:1282:ASN:OD1	2.18	0.43
3:k:1456:LEU:HD21	9:k:2101:ADP:C4'	2.48	0.43
4:l:1238:GLN:HE22	4:l:1318:ARG:NH1	2.15	0.43
5:m:1276:PHE:HB3	5:m:1327:PHE:HA	2.00	0.43
6:n:1147:ARG:HH22	6:n:1409:LYS:HA	1.84	0.43
6:n:1167:THR:CA	6:n:1168:GLU:CB	2.95	0.43
6:n:1174:VAL:O	6:n:1178:VAL:HG23	2.18	0.43
6:n:1216:ASP:C	6:n:1217:HIS:CG	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1362:GLU:CG	6:n:1364:PHE:CE2	2.93	0.43
7:o:1066:GLY:C	7:o:1068:THR:H	2.26	0.43
7:o:1382:ALA:O	7:o:1386:ILE:HG13	2.18	0.43
8:p:1338:ALA:N	8:p:1353:GLY:HA3	2.33	0.43
1:A:118:ASN:O	1:A:119:LYS:CG	2.65	0.43
1:A:538:ILE:HA	1:A:541:ILE:HD12	2.00	0.43
2:B:5:ILE:O	3:C:70:VAL:HA	2.18	0.43
2:B:146:LYS:HD3	2:B:146:LYS:N	2.33	0.43
3:C:129:LEU:HD21	3:C:511:LYS:HA	2.00	0.43
4:D:242:SER:HB3	4:D:298:ASN:HB2	2.00	0.43
4:D:518:ILE:HA	4:D:521:ILE:HD12	2.01	0.43
6:F:171:THR:CB	6:F:172:PRO:HD3	2.48	0.43
6:F:209:PHE:HZ	6:F:211:LYS:HD2	1.83	0.43
6:F:214:VAL:HG22	6:F:377:THR:OG1	2.18	0.43
7:G:82:THR:HG21	7:G:517:ILE:HD11	1.99	0.43
7:G:454:CYS:CB	7:G:461:ALA:HA	2.48	0.43
7:G:492:PHE:CB	7:G:497:TRP:HZ2	2.31	0.43
8:H:311:HIS:CG	8:H:312:TYR:N	2.86	0.43
1:I:351:GLU:N	1:I:351:GLU:OE2	2.51	0.43
2:J:40:LYS:HZ2	6:N:117:ILE:HG13	1.83	0.43
2:J:141:ASP:CG	2:J:142:ASN:N	2.74	0.43
3:K:310:LEU:HD21	3:K:316:VAL:HG22	1.99	0.43
4:L:161:LYS:HA	4:L:161:LYS:HD2	1.66	0.43
5:M:142:HIS:CD2	5:M:144:ILE:HB	2.53	0.43
5:M:162:GLU:C	5:M:164:THR:H	2.27	0.43
5:M:271:ILE:CB	5:M:362:ILE:HA	2.48	0.43
6:N:171:THR:CB	6:N:172:PRO:HD3	2.48	0.43
6:N:185:GLN:HB3	6:N:407:LYS:HD3	2.00	0.43
6:N:195:GLU:OE1	6:N:197:MET:CE	2.65	0.43
6:N:221:HIS:HA	6:N:222:PRO:HD3	1.92	0.43
7:O:66:GLY:C	7:O:68:THR:H	2.27	0.43
7:O:412:GLY:C	7:O:491:ASN:ND2	2.76	0.43
8:P:467:ALA:HB2	8:P:493:ASP:CB	2.49	0.43
1:a:1090:GLN:HE21	1:a:1527:SER:HB3	1.83	0.43
2:b:1015:ALA:O	2:b:1016:GLU:C	2.60	0.43
2:b:1422:ILE:O	2:b:1423:ASP:C	2.61	0.43
3:c:1303:ASP:HB3	3:c:1304:LEU:H	1.46	0.43
4:d:1058:SER:HA	4:d:1392:ARG:HH12	1.84	0.43
4:d:1221:LYS:HE3	4:d:1306:SER:CB	2.49	0.43
4:d:1379:ILE:HD12	4:d:1379:ILE:N	2.33	0.43
4:d:1499:GLN:HA	4:d:1500:PRO:HD3	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1517:SER:O	4:d:1521:ILE:HG13	2.19	0.43
6:f:1036:ASN:CB	6:f:1057:LYS:HZ2	2.15	0.43
6:f:1056:THR:HB	6:f:1390:GLN:CD	2.42	0.43
6:f:1171:THR:N	6:f:1172:PRO:HD2	2.33	0.43
6:f:1296:ILE:HG12	6:f:1317:LEU:HB2	1.98	0.43
7:g:1030:ILE:O	7:g:1033:CYS:HB3	2.19	0.43
7:g:1033:CYS:HG	7:g:1083:LEU:HD11	1.82	0.43
8:h:1063:ILE:HD12	8:h:1074:GLU:CG	2.45	0.43
8:h:1523:THR:HA	8:h:1526:PHE:HD2	1.83	0.43
2:j:1329:PHE:CD2	2:j:1329:PHE:O	2.53	0.43
3:k:1441:PRO:O	3:k:1444:ALA:HB3	2.18	0.43
3:k:1525:ASP:OD1	8:p:1053:LYS:CB	2.66	0.43
4:l:1134:ILE:HB	4:l:1421:ILE:CD1	2.48	0.43
4:l:1146:ASP:HB2	4:l:1149:GLN:HB2	2.01	0.43
4:l:1517:SER:O	4:l:1521:ILE:HG13	2.19	0.43
5:m:1527:VAL:HG13	9:m:1601:ADP:N6	2.33	0.43
6:n:1280:LEU:CD1	6:n:1343:LEU:HD11	2.48	0.43
8:p:1186:VAL:C	8:p:1188:HIS:H	2.26	0.43
1:A:177:SER:O	1:A:181:VAL:HG23	2.19	0.43
2:B:169:ASP:HB2	2:B:172:HIS:HB2	2.00	0.43
2:B:226:ILE:HG13	2:B:282:ASN:OD1	2.18	0.43
3:C:61:GLY:CA	3:C:94:THR:HG22	2.49	0.43
3:C:113:GLU:OE1	1:I:460:LYS:NZ	2.47	0.43
3:C:152:LYS:HG2	3:C:176:LEU:HG	2.01	0.43
3:C:516:SER:C	3:C:518:CYS:H	2.27	0.43
4:D:66:LYS:HA	4:D:66:LYS:HD2	1.62	0.43
4:D:248:THR:O	4:D:250:ASN:OD1	2.37	0.43
4:D:461:ASN:CB	4:D:464:LYS:HG2	2.47	0.43
6:F:324:ASN:HA	6:F:327:ARG:HB2	2.00	0.43
8:H:250:PHE:N	8:H:250:PHE:CD2	2.86	0.43
8:H:333:CYS:SG	8:H:339:THR:HA	2.59	0.43
8:H:464:ALA:HB2	8:H:474:VAL:HG11	2.00	0.43
1:I:54:VAL:HB	7:O:525:THR:HA	2.00	0.43
1:I:73:LEU:O	1:I:74:ASP:OD1	2.36	0.43
1:I:187:VAL:CG1	1:I:382:SER:H	2.31	0.43
1:I:460:LYS:O	1:I:464:VAL:HG23	2.18	0.43
2:J:422:ILE:CB	2:J:427:SER:CB	2.79	0.43
2:J:459:LEU:HD13	2:J:472:LEU:HD23	2.00	0.43
2:J:515:ILE:O	3:K:48:LEU:HA	2.19	0.43
3:K:9:ASN:HB2	8:P:78:VAL:HG13	2.00	0.43
3:K:268:ASP:O	3:K:269:TRP:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:22:LYS:O	4:L:26:ILE:HG13	2.19	0.43
5:M:73:ILE:HG12	5:M:83:ILE:CG1	2.44	0.43
5:M:352:GLU:CD	5:M:353:HIS:H	2.26	0.43
7:O:51:ILE:HD12	7:O:69:ILE:HD11	2.01	0.43
7:O:130:ARG:HA	7:O:130:ARG:HE	1.84	0.43
7:O:452:GLN:O	7:O:456:ASN:N	2.49	0.43
2:b:1494:LYS:HD2	2:b:1494:LYS:HA	1.79	0.43
4:d:1226:PRO:HD2	4:d:1311:MET:HG2	2.01	0.43
4:d:1248:THR:O	4:d:1250:ASN:OD1	2.37	0.43
4:d:1253:ILE:H	4:d:1253:ILE:HG12	1.64	0.43
5:e:1162:GLU:C	5:e:1164:THR:H	2.27	0.43
6:f:1114:HIS:ND1	6:f:1115:PRO:HD2	2.34	0.43
6:f:1147:ARG:HH22	6:f:1409:LYS:HA	1.84	0.43
6:f:1234:LEU:HD12	6:f:1280:LEU:HD11	2.00	0.43
7:g:1448:VAL:HA	7:g:1451:ARG:HB2	2.00	0.43
8:h:1424:GLY:O	8:h:1425:ALA:C	2.61	0.43
8:h:1463:LEU:HD11	9:h:1601:ADP:C8	2.54	0.43
1:i:1544:MET:HG3	5:m:1073:ILE:HG22	2.00	0.43
2:j:1100:ALA:O	2:j:1104:ARG:HG3	2.18	0.43
2:j:1146:LYS:HD3	2:j:1146:LYS:N	2.34	0.43
2:j:1169:ASP:HB2	2:j:1172:HIS:HB2	2.00	0.43
2:j:1370:ARG:O	2:j:1371:GLY:C	2.61	0.43
2:j:1372:ALA:HA	6:n:1519:GLY:HA2	2.00	0.43
3:k:1224:LEU:C	3:k:1225:LEU:HD23	2.43	0.43
3:k:1231:HIS:HA	3:k:1232:PRO:HD3	1.72	0.43
3:k:1268:ASP:O	3:k:1269:TRP:C	2.62	0.43
4:l:1379:ILE:HD12	4:l:1379:ILE:N	2.33	0.43
4:l:1447:LEU:C	4:l:1449:VAL:H	2.26	0.43
5:m:1456:GLU:HA	5:m:1456:GLU:OE2	2.17	0.43
6:n:1011:GLU:OE2	6:n:1011:GLU:N	2.52	0.43
6:n:1070:SER:O	6:n:1071:PRO:C	2.61	0.43
6:n:1419:TYR:O	6:n:1422:LEU:HB2	2.19	0.43
7:o:1220:PHE:C	7:o:1222:LYS:H	2.26	0.43
7:o:1316:GLY:O	7:o:1317:ARG:CB	2.52	0.43
7:o:1346:LEU:HD23	7:o:1346:LEU:N	2.33	0.43
7:o:1454:CYS:CB	7:o:1461:ALA:HA	2.48	0.43
8:p:1311:HIS:CG	8:p:1312:TYR:N	2.86	0.43
1:A:54:VAL:HG12	1:A:56:ASP:N	2.30	0.43
1:A:187:VAL:CG1	1:A:382:SER:H	2.30	0.43
1:A:224:LEU:CD1	1:A:226:CYS:CB	2.90	0.43
1:A:460:LYS:O	1:A:464:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:45:LEU:HD12	6:F:533:LEU:HD13	2.00	0.43
2:B:401:VAL:HG22	2:B:402:LEU:N	2.33	0.43
3:C:209:ILE:HG23	3:C:382:ARG:HA	2.00	0.43
3:C:229:VAL:HG11	3:C:234:MET:CE	2.49	0.43
4:D:386:ILE:C	4:D:388:ASP:N	2.76	0.43
5:E:73:ILE:O	5:E:74:LEU:HD22	2.18	0.43
6:F:114:HIS:ND1	6:F:115:PRO:HD2	2.34	0.43
6:F:221:HIS:CD2	6:F:224:MET:SD	3.09	0.43
7:G:130:ARG:HA	7:G:130:ARG:HE	1.84	0.43
7:G:162:ALA:CB	7:G:179:VAL:HG13	2.47	0.43
7:G:166:MET:O	7:G:171:ILE:HB	2.18	0.43
7:G:382:ALA:O	7:G:386:ILE:HG13	2.18	0.43
8:H:155:ASP:HB3	8:H:156:LYS:H	1.48	0.43
2:J:164:LYS:C	2:J:166:LEU:N	2.77	0.43
2:J:329:PHE:CD2	2:J:329:PHE:O	2.53	0.43
2:J:370:ARG:O	2:J:371:GLY:C	2.61	0.43
2:J:513:ASN:C	2:J:514:ILE:HD13	2.36	0.43
3:K:152:LYS:HG2	3:K:176:LEU:HG	2.01	0.43
4:L:146:ASP:HB2	4:L:149:GLN:HB2	2.01	0.43
4:L:369:ASN:C	4:L:371:ALA:H	2.27	0.43
4:L:386:ILE:C	4:L:388:ASP:N	2.76	0.43
5:M:262:GLU:HA	5:M:263:GLY:HA2	1.67	0.43
5:M:431:ARG:HA	5:M:434:VAL:HG12	2.01	0.43
6:N:527:LEU:HA	6:N:527:LEU:HD23	1.71	0.43
7:O:83:LEU:HA	7:O:86:ILE:HD11	2.01	0.43
8:P:35:ILE:HG23	8:P:85:LEU:HD12	2.01	0.43
8:P:333:CYS:SG	8:P:339:THR:HA	2.59	0.43
8:P:420:LEU:HD23	8:P:421:PRO:HD2	2.01	0.43
8:P:424:GLY:O	8:P:428:ILE:HG13	2.18	0.43
1:a:1177:SER:O	1:a:1181:VAL:HG23	2.18	0.43
2:b:1161:LEU:HD22	2:b:1166:LEU:HD11	2.01	0.43
2:b:1440:LEU:N	2:b:1441:PRO:HD2	2.33	0.43
2:b:1515:ILE:O	3:c:1048:LEU:HA	2.18	0.43
3:c:1028:ALA:HB2	3:c:1074:ALA:O	2.18	0.43
3:c:1035:ILE:CD1	3:c:1065:LEU:HG	2.47	0.43
6:f:1419:TYR:O	6:f:1422:LEU:HB2	2.19	0.43
8:h:1420:LEU:HD23	8:h:1421:PRO:HD2	2.01	0.43
8:h:1464:ALA:HB2	8:h:1474:VAL:HG11	2.00	0.43
2:j:1008:ASP:OD1	2:j:1008:ASP:N	2.51	0.43
2:j:1015:ALA:O	2:j:1016:GLU:C	2.60	0.43
2:j:1032:LEU:HD12	6:n:1532:GLU:OE2	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1430:LYS:O	3:k:1433:GLN:CG	2.57	0.43
4:l:1236:LEU:O	4:l:1332:PRO:HA	2.18	0.43
4:l:1325:SER:HB3	4:l:1332:PRO:CG	2.49	0.43
7:o:1303:ALA:O	7:o:1307:PHE:CD2	2.70	0.43
8:p:1106:LEU:O	8:p:1107:ALA:C	2.61	0.43
8:p:1333:CYS:SG	8:p:1339:THR:HA	2.59	0.43
8:p:1467:ALA:HB2	8:p:1493:ASP:CB	2.49	0.43
1:A:90:GLN:HG3	1:A:101:VAL:CG2	2.19	0.43
1:A:350:PHE:O	1:A:351:GLU:OE2	2.36	0.43
1:A:396:ASP:O	1:A:399:GLU:HB3	2.19	0.43
1:A:434:ASP:O	1:A:438:THR:HG23	2.19	0.43
2:B:8:ASP:N	2:B:8:ASP:OD1	2.51	0.43
2:B:490:SER:HB2	2:B:492:LYS:CE	2.49	0.43
3:C:174:LEU:HD21	3:C:379:ILE:HG21	2.01	0.43
3:C:341:GLU:OE2	8:H:281:GLU:OE2	2.37	0.43
4:D:461:ASN:HB3	4:D:464:LYS:CG	2.48	0.43
6:F:390:GLN:HE21	6:F:390:GLN:HA	1.84	0.43
6:F:419:TYR:O	6:F:422:LEU:HB2	2.19	0.43
7:G:516:LEU:CD2	7:G:517:ILE:N	2.68	0.43
8:H:101:ASN:N	8:H:101:ASN:HD22	2.16	0.43
8:H:467:ALA:HB2	8:H:493:ASP:CB	2.49	0.43
8:H:523:THR:HA	8:H:526:PHE:HD2	1.83	0.43
2:J:417:THR:HG23	2:J:418:GLU:N	2.33	0.43
2:J:422:ILE:O	2:J:423:ASP:C	2.61	0.43
3:K:521:LEU:C	3:K:523:VAL:H	2.26	0.43
4:L:58:SER:HA	4:L:392:ARG:HH12	1.84	0.43
4:L:233:LYS:C	4:L:234:ILE:HD12	2.44	0.43
4:L:469:LEU:HD23	4:L:469:LEU:HA	1.87	0.43
5:M:170:ALA:N	5:M:523:LYS:HZ1	2.17	0.43
5:M:429:VAL:O	5:M:432:ASN:HB2	2.18	0.43
7:O:55:THR:HG21	7:O:72:LEU:HD23	2.01	0.43
7:O:132:ALA:HB2	7:O:439:ILE:HD13	2.01	0.43
7:O:139:LYS:CB	7:O:420:VAL:HG12	2.49	0.43
7:O:220:PHE:C	7:O:222:LYS:H	2.26	0.43
7:O:235:LYS:CB	7:O:352:PHE:C	2.91	0.43
1:a:1363:GLN:HE21	1:a:1363:GLN:HB2	1.66	0.43
1:a:1538:ILE:HA	1:a:1541:ILE:HD12	1.99	0.43
2:b:1008:ASP:OD1	2:b:1008:ASP:N	2.51	0.43
3:c:1152:LYS:HG2	3:c:1176:LEU:HG	2.01	0.43
3:c:1209:ILE:HG23	3:c:1382:ARG:HA	1.99	0.43
4:d:1236:LEU:O	4:d:1332:PRO:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1238:GLN:HE22	4:d:1318:ARG:NH1	2.15	0.43
5:e:1447:GLU:HG2	5:e:1479:ILE:HB	2.01	0.43
6:f:1430:ASN:CA	6:f:1433:LYS:HB2	2.48	0.43
7:g:1066:GLY:C	7:g:1068:THR:H	2.27	0.43
8:h:1428:ILE:CD1	8:h:1478:LEU:HD13	2.48	0.43
1:i:1016:GLY:HA3	1:i:1548:ASP:CB	2.44	0.43
1:i:1066:GLY:HA3	1:i:1099:THR:HG22	2.01	0.43
2:j:1162:SER:O	2:j:1163:SER:OG	2.30	0.43
2:j:1203:LEU:O	2:j:1204:SER:OG	2.30	0.43
2:j:1206:SER:HB2	2:j:1368:VAL:HG22	2.00	0.43
2:j:1218:PHE:HA	2:j:1304:ASN:O	2.19	0.43
2:j:1231:ILE:HG22	2:j:1232:LEU:H	1.83	0.43
3:k:1243:VAL:O	3:k:1348:VAL:HG13	2.19	0.43
4:l:1200:VAL:HA	4:l:1381:GLY:O	2.18	0.43
5:m:1352:GLU:CD	5:m:1353:HIS:H	2.26	0.43
5:m:1485:GLU:HB2	5:m:1491:PRO:HG3	2.01	0.43
6:n:1037:LEU:HB3	9:n:1601:ADP:O2A	2.18	0.43
6:n:1451:LEU:O	6:n:1455:PRO:CG	2.66	0.43
8:p:1062:ILE:HD13	8:p:1063:ILE:N	2.32	0.43
8:p:1393:ASN:O	8:p:1397:ILE:HG13	2.18	0.43
1:A:66:GLY:HA3	1:A:99:THR:HG22	2.01	0.43
1:A:431:ILE:HG21	1:A:482:ALA:HA	2.01	0.43
2:B:243:VAL:HG12	2:B:245:ILE:N	2.29	0.43
2:B:326:VAL:HG13	3:C:304:LEU:CD2	2.48	0.43
3:C:310:LEU:HD21	3:C:316:VAL:HG22	1.99	0.43
4:D:55:ILE:HD12	8:H:80:PRO:HB3	2.01	0.43
4:D:58:SER:HA	4:D:392:ARG:HH12	1.84	0.43
5:E:364:PRO:HG3	6:F:307:ASP:CB	2.49	0.43
6:F:195:GLU:HG2	6:F:197:MET:CE	2.48	0.43
6:F:426:LEU:C	6:F:426:LEU:HD13	2.44	0.43
7:G:66:GLY:C	7:G:68:THR:H	2.27	0.43
7:G:234:LYS:HA	7:G:234:LYS:HD3	1.34	0.43
8:H:335:VAL:HG23	8:H:381:THR:OG1	2.19	0.43
1:I:129:PHE:CB	1:I:532:LEU:HD21	2.48	0.43
1:I:187:VAL:O	1:I:381:SER:CA	2.67	0.43
1:I:267:PRO:HB2	1:I:269:GLN:CB	2.49	0.43
2:J:60:GLY:H	2:J:93:THR:HG22	1.83	0.43
2:J:350:GLU:H	2:J:350:GLU:HG2	1.37	0.43
3:K:224:LEU:C	3:K:225:LEU:HD23	2.43	0.43
5:M:33:LYS:O	5:M:33:LYS:HG2	2.19	0.43
5:M:87:GLY:HA3	5:M:120:THR:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:447:GLU:HG2	5:M:479:ILE:HB	2.01	0.43
6:N:114:HIS:ND1	6:N:115:PRO:HD2	2.34	0.43
6:N:160:THR:N	6:N:164:ALA:HB3	2.31	0.43
7:O:101:VAL:HG22	7:O:506:ALA:HA	2.01	0.43
8:P:335:VAL:HG23	8:P:381:THR:OG1	2.19	0.43
1:a:1301:GLY:HA2	1:a:1320:ARG:H	1.84	0.43
1:a:1434:ASP:O	1:a:1438:THR:HG23	2.19	0.43
2:b:1319:LEU:HD23	2:b:1319:LEU:O	2.19	0.43
3:c:1114:LYS:CA	3:c:1115:ASN:CB	2.94	0.43
3:c:1291:ARG:N	3:c:1292:PRO:CD	2.80	0.43
8:h:1163:ILE:HG12	8:h:1182:VAL:HG11	2.01	0.43
8:h:1226:MET:HE1	8:h:1328:GLU:CG	2.47	0.43
8:h:1333:CYS:SG	8:h:1339:THR:HA	2.59	0.43
1:i:1054:VAL:HG12	1:i:1056:ASP:N	2.30	0.43
1:i:1118:ASN:O	1:i:1119:LYS:CG	2.65	0.43
1:i:1120:ILE:HG21	1:i:1125:ILE:HG12	2.00	0.43
1:i:1434:ASP:O	1:i:1438:THR:HG23	2.19	0.43
3:k:1219:VAL:O	3:k:1219:VAL:HG12	2.18	0.43
3:k:1286:GLN:OE1	3:k:1340:VAL:HG22	2.19	0.43
4:l:1159:SER:C	4:l:1161:LYS:N	2.76	0.43
4:l:1161:LYS:HA	4:l:1161:LYS:HD2	1.66	0.43
6:n:1114:HIS:ND1	6:n:1115:PRO:HD2	2.34	0.43
6:n:1185:GLN:HB3	6:n:1407:LYS:HD3	2.00	0.43
6:n:1430:ASN:CA	6:n:1433:LYS:HB2	2.48	0.43
7:o:1082:THR:HG21	7:o:1517:ILE:HD11	1.99	0.43
7:o:1132:ALA:HB2	7:o:1439:ILE:HD13	2.01	0.43
7:o:1166:MET:O	7:o:1171:ILE:HB	2.18	0.43
7:o:1492:PHE:CB	7:o:1497:TRP:HZ2	2.31	0.43
8:p:1134:ALA:O	8:p:1138:THR:HG23	2.17	0.43
8:p:1163:ILE:HG12	8:p:1182:VAL:HG11	2.01	0.43
8:p:1428:ILE:CD1	8:p:1478:LEU:HD13	2.48	0.43
1:A:129:PHE:N	1:A:129:PHE:HD2	2.17	0.43
1:A:345:GLU:HA	1:A:346:GLY:HA2	1.67	0.43
1:A:351:GLU:OE2	1:A:351:GLU:N	2.52	0.43
2:B:27:ILE:O	2:B:27:ILE:HG12	2.15	0.43
2:B:92:THR:HA	2:B:95:VAL:HG23	2.00	0.43
3:C:35:ILE:CD1	3:C:65:LEU:HG	2.47	0.43
3:C:108:ALA:N	3:C:109:PRO:CD	2.81	0.43
4:D:22:LYS:O	4:D:26:ILE:HG13	2.19	0.43
4:D:134:ILE:HB	4:D:421:ILE:HD13	2.01	0.43
4:D:233:LYS:C	4:D:234:ILE:HD12	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:325:SER:HB3	4:D:332:PRO:CG	2.49	0.43
5:E:87:GLY:HA3	5:E:120:THR:HG22	2.01	0.43
5:E:162:GLU:C	5:E:164:THR:H	2.27	0.43
5:E:245:LEU:HD22	5:E:245:LEU:HA	1.80	0.43
5:E:447:GLU:HG2	5:E:479:ILE:HB	2.01	0.43
6:F:83:GLN:HB2	6:F:91:THR:HG22	2.00	0.43
6:F:185:GLN:HB3	6:F:407:LYS:HD3	2.00	0.43
6:F:234:LEU:HD12	6:F:280:LEU:HD11	2.00	0.43
6:F:429:ALA:O	6:F:432:ASN:HB2	2.19	0.43
6:F:433:LYS:HB3	6:F:444:ILE:HG13	2.00	0.43
6:F:503:ILE:O	6:F:503:ILE:HG22	2.18	0.43
7:G:17:THR:HG21	7:G:525:THR:O	2.19	0.43
7:G:51:ILE:HD12	7:G:69:ILE:HD11	2.01	0.43
7:G:55:THR:HG21	7:G:72:LEU:HD23	2.01	0.43
7:G:113:LYS:O	7:G:116:LEU:HB2	2.19	0.43
1:I:177:SER:O	1:I:181:VAL:HG23	2.19	0.43
2:J:58:ASN:HD21	2:J:93:THR:HG21	1.84	0.43
2:J:243:VAL:CG1	2:J:245:ILE:HG13	2.49	0.43
3:K:219:VAL:O	3:K:219:VAL:HG12	2.18	0.43
3:K:282:LEU:O	3:K:286:GLN:HG3	2.19	0.43
4:L:103:LEU:HD22	4:L:515:VAL:HG21	1.99	0.43
4:L:461:ASN:HB3	4:L:464:LYS:CG	2.48	0.43
5:M:84:THR:O	5:M:90:ILE:HD11	2.18	0.43
5:M:483:LEU:HD21	9:M:601:ADP:H1'	2.00	0.43
6:N:113:VAL:CB	6:N:118:ILE:HD11	2.47	0.43
6:N:324:ASN:HA	6:N:327:ARG:HB2	2.00	0.43
6:N:426:LEU:C	6:N:426:LEU:HD13	2.44	0.43
6:N:451:LEU:O	6:N:455:PRO:CG	2.66	0.43
7:O:82:THR:HG21	7:O:517:ILE:HD11	1.99	0.43
1:a:1017:GLY:HA2	1:a:1546:THR:O	2.18	0.43
1:a:1073:LEU:O	1:a:1074:ASP:OD1	2.36	0.43
1:a:1120:ILE:CG2	1:a:1121:HIS:N	2.81	0.43
1:a:1494:ARG:CA	1:a:1495:ARG:C	2.92	0.43
2:b:1218:PHE:HA	2:b:1304:ASN:O	2.19	0.43
2:b:1402:LEU:CD2	2:b:1483:ARG:HG3	2.46	0.43
3:c:1250:LEU:CG	3:c:1301:VAL:HB	2.49	0.43
3:c:1286:GLN:OE1	3:c:1340:VAL:HG22	2.19	0.43
4:d:1386:ILE:C	4:d:1388:ASP:N	2.76	0.43
5:e:1271:ILE:CB	5:e:1362:ILE:HA	2.48	0.43
7:g:1130:ARG:HA	7:g:1130:ARG:HE	1.84	0.43
7:g:1145:VAL:O	7:g:1408:LEU:CA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1015:LYS:HG3	8:h:1016:GLN:H	1.83	0.43
8:h:1302:GLY:HA2	8:h:1324:PRO:HD2	2.01	0.43
2:j:1047:GLN:HE22	2:j:1053:THR:N	2.17	0.43
2:j:1308:HIS:CE1	2:j:1313:GLY:HA3	2.54	0.43
2:j:1440:LEU:N	2:j:1441:PRO:HD2	2.33	0.43
2:j:1490:SER:HB2	2:j:1492:LYS:CE	2.49	0.43
3:k:1035:ILE:CD1	3:k:1065:LEU:HG	2.47	0.43
3:k:1170:LYS:C	3:k:1170:LYS:CD	2.92	0.43
4:l:1066:LYS:HA	4:l:1066:LYS:HD2	1.62	0.43
4:l:1226:PRO:HD2	4:l:1311:MET:HG2	2.01	0.43
5:m:1297:LYS:HB3	6:n:1256:ALA:CB	2.49	0.43
5:m:1350:GLU:O	5:m:1353:HIS:N	2.52	0.43
5:m:1364:PRO:HG3	6:n:1307:ASP:CB	2.49	0.43
5:m:1447:GLU:HG2	5:m:1479:ILE:HB	2.01	0.43
6:n:1105:ALA:HA	6:n:1108:PHE:CE2	2.54	0.43
6:n:1390:GLN:HA	6:n:1390:GLN:HE21	1.84	0.43
6:n:1540:THR:CB	6:n:1541:LEU:HD22	2.44	0.43
7:o:1409:ILE:CG2	7:o:1410:VAL:N	2.82	0.43
8:p:1250:PHE:CD2	8:p:1250:PHE:N	2.86	0.43
2:B:308:HIS:CE1	2:B:313:GLY:HA3	2.54	0.43
3:C:47:MET:CE	3:C:49:LEU:HD21	2.49	0.43
3:C:50:ASP:OD1	3:C:54:GLY:HA3	2.18	0.43
3:C:350:THR:O	3:C:350:THR:HG22	2.18	0.43
3:C:483:GLY:O	3:C:491:ILE:HB	2.18	0.43
4:D:241:ILE:HD12	4:D:241:ILE:N	2.30	0.43
4:D:253:ILE:H	4:D:253:ILE:HG12	1.64	0.43
6:F:221:HIS:HB2	6:F:224:MET:CG	2.43	0.43
7:G:73:LEU:HD13	7:G:73:LEU:C	2.44	0.43
8:H:77:ILE:H	8:H:77:ILE:CD1	2.26	0.43
8:H:420:LEU:HD23	8:H:421:PRO:HD2	2.01	0.43
1:I:281:VAL:O	1:I:285:VAL:HG23	2.19	0.43
1:I:434:ASP:O	1:I:438:THR:HG23	2.19	0.43
2:J:47:GLN:HE22	2:J:53:THR:N	2.17	0.43
2:J:165:ILE:HG12	6:N:529:LEU:CD1	2.43	0.43
2:J:169:ASP:HB2	2:J:172:HIS:HB2	2.00	0.43
2:J:294:PRO:HA	2:J:297:LEU:HB2	2.00	0.43
2:J:440:LEU:N	2:J:441:PRO:HD2	2.33	0.43
2:J:467:ILE:HA	2:J:468:SER:HA	1.59	0.43
3:K:441:PRO:O	3:K:444:ALA:HB3	2.18	0.43
4:L:184:GLU:HA	4:L:187:LYS:HG2	2.00	0.43
4:L:221:LYS:HE3	4:L:306:SER:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:226:PRO:HD2	4:L:311:MET:HG2	2.01	0.43
4:L:389:GLU:O	4:L:392:ARG:HD3	2.19	0.43
4:L:423:ARG:O	4:L:427:LYS:HG2	2.19	0.43
5:M:310:ILE:HG23	5:M:335:LEU:HD23	2.01	0.43
6:N:151:LEU:O	6:N:171:THR:HG21	2.19	0.43
6:N:174:VAL:O	6:N:178:VAL:HG23	2.18	0.43
6:N:420:ILE:O	6:N:424:ARG:N	2.40	0.43
6:N:426:LEU:HD22	6:N:426:LEU:HA	1.86	0.43
7:O:17:THR:HG21	7:O:525:THR:O	2.19	0.43
8:P:464:ALA:HB2	8:P:474:VAL:HG11	2.00	0.43
2:b:1308:HIS:CE1	2:b:1313:GLY:HA3	2.54	0.43
2:b:1331:GLU:HA	2:b:1332:PRO:HD3	1.79	0.43
3:c:1243:VAL:O	3:c:1348:VAL:HG13	2.19	0.43
3:c:1268:ASP:O	3:c:1269:TRP:C	2.62	0.43
3:c:1350:THR:HG22	3:c:1350:THR:O	2.18	0.43
5:e:1445:ALA:CB	5:e:1510:ILE:O	2.67	0.43
5:e:1477:ASP:O	5:e:1480:PRO:HD2	2.19	0.43
6:f:1083:GLN:O	6:f:1084:ASP:C	2.62	0.43
6:f:1503:ILE:O	6:f:1503:ILE:HG22	2.18	0.43
8:h:1269:ASN:O	8:h:1272:GLU:HB2	2.19	0.43
1:i:1091:ASP:HA	1:i:1095:GLY:HA2	2.00	0.43
1:i:1185:LEU:HD23	1:i:1185:LEU:HA	1.85	0.43
1:i:1262:ILE:HD13	5:m:1295:TYR:OH	2.18	0.43
1:i:1281:VAL:O	1:i:1285:VAL:HG23	2.19	0.43
1:i:1351:GLU:N	1:i:1351:GLU:OE2	2.51	0.43
1:i:1431:ILE:HG21	1:i:1482:ALA:HA	2.01	0.43
2:j:1120:ILE:HG23	2:j:1124:TYR:CE1	2.54	0.43
2:j:1243:VAL:CG1	2:j:1245:ILE:HG13	2.49	0.43
2:j:1350:GLU:H	2:j:1350:GLU:HG2	1.37	0.43
3:k:1028:ALA:HB2	3:k:1074:ALA:O	2.18	0.43
3:k:1084:THR:HG22	8:p:1213:MET:SD	2.59	0.43
3:k:1174:LEU:HD21	3:k:1379:ILE:HG21	2.01	0.43
3:k:1512:THR:HG23	8:p:1389:ALA:CB	2.49	0.43
4:l:1094:THR:O	4:l:1096:VAL:N	2.52	0.43
4:l:1098:ILE:HG12	4:l:1098:ILE:H	1.57	0.43
4:l:1134:ILE:HB	4:l:1421:ILE:HD13	2.01	0.43
5:m:1170:ALA:N	5:m:1523:LYS:HZ1	2.17	0.43
5:m:1445:ALA:CB	5:m:1510:ILE:O	2.67	0.43
8:p:1035:ILE:HG23	8:p:1085:LEU:HD12	2.01	0.43
8:p:1291:ILE:HD12	8:p:1347:PRO:HG3	1.97	0.43
1:A:55:ASP:C	1:A:57:ILE:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:LEU:O	1:A:110:LYS:C	2.62	0.42
1:A:546:THR:HA	5:E:75:ILE:HB	2.01	0.42
2:B:294:PRO:HA	2:B:297:LEU:HB2	2.00	0.42
2:B:319:LEU:HD23	2:B:319:LEU:O	2.19	0.42
2:B:422:ILE:O	2:B:423:ASP:C	2.61	0.42
2:B:440:LEU:N	2:B:441:PRO:HD2	2.33	0.42
3:C:282:LEU:O	3:C:286:GLN:HG3	2.19	0.42
4:D:159:SER:C	4:D:161:LYS:N	2.76	0.42
5:E:132:GLN:HA	5:E:132:GLN:NE2	2.33	0.42
5:E:431:ARG:HA	5:E:434:VAL:HG12	2.00	0.42
6:F:143:LEU:CD1	6:F:145:ASN:CB	2.96	0.42
7:G:101:VAL:HG22	7:G:506:ALA:HA	2.01	0.42
7:G:178:PHE:CZ	7:G:389:VAL:HG13	2.53	0.42
7:G:282:LEU:HD12	7:G:283:ARG:N	2.34	0.42
8:H:35:ILE:HG23	8:H:85:LEU:HD12	2.01	0.42
8:H:302:GLY:HA2	8:H:324:PRO:HD2	2.01	0.42
1:I:145:SER:C	1:I:147:SER:H	2.25	0.42
1:I:543:THR:O	5:M:72:LYS:HB3	2.19	0.42
2:J:218:PHE:HA	2:J:304:ASN:O	2.19	0.42
2:J:319:LEU:HD23	2:J:319:LEU:O	2.19	0.42
2:J:397:GLU:HG2	2:J:492:LYS:HZ3	1.84	0.42
3:K:99:LEU:O	3:K:100:ALA:C	2.62	0.42
4:L:77:MET:O	4:L:81:VAL:HG23	2.18	0.42
4:L:134:ILE:HB	4:L:421:ILE:HD13	2.01	0.42
5:M:477:ASP:O	5:M:480:PRO:HD2	2.19	0.42
6:N:92:THR:OG1	9:N:601:ADP:O2B	2.35	0.42
6:N:147:ARG:HH22	6:N:409:LYS:HA	1.84	0.42
6:N:212:GLY:O	6:N:213:LEU:C	2.60	0.42
7:O:236:PHE:O	7:O:239:PRO:HG3	2.19	0.42
8:P:137:PHE:HE2	8:P:434:ILE:HA	1.84	0.42
8:P:318:ILE:HG22	8:P:319:LEU:O	2.19	0.42
1:a:1120:ILE:HG21	1:a:1125:ILE:HG12	2.00	0.42
2:b:1196:ILE:O	2:b:1367:ILE:HA	2.19	0.42
2:b:1317:LEU:O	2:b:1321:THR:N	2.50	0.42
4:d:1022:LYS:O	4:d:1026:ILE:HG13	2.19	0.42
4:d:1134:ILE:HB	4:d:1421:ILE:HD13	2.01	0.42
4:d:1232:ALA:O	4:d:1234:ILE:HD12	2.19	0.42
4:d:1233:LYS:C	4:d:1234:ILE:HD12	2.44	0.42
4:d:1439:ILE:O	4:d:1439:ILE:HG22	2.19	0.42
5:e:1269:LEU:HD22	5:e:1269:LEU:H	1.84	0.42
5:e:1348:GLY:O	5:e:1351:LEU:HD12	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:1083:GLN:HB2	6:f:1091:THR:HG22	2.00	0.42
6:f:1390:GLN:HA	6:f:1390:GLN:HE21	1.84	0.42
6:f:1429:ALA:O	6:f:1432:ASN:HB2	2.19	0.42
6:f:1540:THR:CB	6:f:1541:LEU:HD22	2.44	0.42
7:g:1236:PHE:O	7:g:1239:PRO:HD3	2.19	0.42
7:g:1236:PHE:O	7:g:1239:PRO:HG3	2.19	0.42
8:h:1137:PHE:HE2	8:h:1434:ILE:HA	1.84	0.42
8:h:1177:ILE:O	8:h:1181:LEU:HD12	2.19	0.42
8:h:1296:VAL:HG11	8:h:1299:ILE:HD11	2.01	0.42
1:i:1090:GLN:HE21	1:i:1527:SER:HB3	1.83	0.42
1:i:1120:ILE:CG2	1:i:1121:HIS:N	2.81	0.42
2:j:1164:LYS:C	2:j:1166:LEU:N	2.77	0.42
3:k:1009:ASN:HB2	8:p:1078:VAL:CG1	2.49	0.42
3:k:1047:MET:CE	3:k:1049:LEU:HD21	2.49	0.42
3:k:1355:PHE:HE2	3:k:1366:SER:HB3	1.84	0.42
4:l:1022:LYS:O	4:l:1026:ILE:HG13	2.19	0.42
4:l:1232:ALA:O	4:l:1234:ILE:HD12	2.19	0.42
5:m:1087:GLY:HA3	5:m:1120:THR:HG22	2.01	0.42
5:m:1396:GLU:HA	5:m:1397:GLN:HA	1.53	0.42
6:n:1136:PHE:O	6:n:1138:ILE:HG13	2.19	0.42
6:n:1539:SER:HB2	6:n:1542:LYS:HD3	1.99	0.42
8:p:1293:ASP:C	8:p:1295:GLY:H	2.27	0.42
8:p:1296:VAL:HG11	8:p:1299:ILE:HD11	2.01	0.42
2:B:494:LYS:HA	2:B:494:LYS:HD2	1.79	0.42
4:D:200:VAL:HA	4:D:381:GLY:O	2.18	0.42
4:D:219:ALA:HB1	4:D:221:LYS:HZ1	1.82	0.42
4:D:236:LEU:O	4:D:332:PRO:HA	2.18	0.42
4:D:423:ARG:O	4:D:427:LYS:HG2	2.19	0.42
4:D:517:SER:O	4:D:521:ILE:HG13	2.19	0.42
5:E:263:GLY:HA3	5:E:380:ILE:O	2.19	0.42
5:E:466:GLN:HG3	5:E:467:TYR:CD2	2.54	0.42
5:E:485:GLU:HB2	5:E:491:PRO:HG3	2.01	0.42
6:F:70:SER:O	6:F:71:PRO:C	2.61	0.42
6:F:143:LEU:HD21	6:F:145:ASN:HB3	1.97	0.42
6:F:430:ASN:CA	6:F:433:LYS:HB2	2.48	0.42
1:I:66:GLY:HA3	1:I:99:THR:HG22	2.01	0.42
2:J:120:ILE:HG23	2:J:124:TYR:CE1	2.54	0.42
2:J:287:ARG:H	2:J:287:ARG:HG2	1.58	0.42
4:L:200:VAL:HA	4:L:381:GLY:O	2.18	0.42
4:L:447:LEU:C	4:L:449:VAL:H	2.26	0.42
4:L:518:ILE:HA	4:L:521:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:16:ASP:O	6:N:20:LYS:N	2.46	0.42
6:N:195:GLU:HG2	6:N:197:MET:HE1	2.01	0.42
6:N:233:VAL:HG12	6:N:294:VAL:CG2	2.49	0.42
6:N:419:TYR:O	6:N:422:LEU:HB2	2.19	0.42
6:N:430:ASN:CA	6:N:433:LYS:HB2	2.48	0.42
7:O:36:VAL:CG2	7:O:37:GLN:N	2.83	0.42
7:O:178:PHE:CZ	7:O:389:VAL:HG13	2.53	0.42
8:P:48:PRO:HG3	8:P:169:SER:HA	2.02	0.42
1:a:1115:LEU:HD23	1:a:1115:LEU:HA	1.80	0.42
1:a:1296:VAL:O	1:a:1297:LEU:HD23	2.19	0.42
2:b:1120:ILE:HG23	2:b:1124:TYR:CE1	2.54	0.42
2:b:1490:SER:HB2	2:b:1492:LYS:CE	2.49	0.42
3:c:1224:LEU:C	3:c:1225:LEU:HD23	2.43	0.42
3:c:1229:VAL:HG11	3:c:1234:MET:CE	2.49	0.42
3:c:1355:PHE:HE2	3:c:1366:SER:HB3	1.84	0.42
4:d:1447:LEU:C	4:d:1449:VAL:H	2.26	0.42
5:e:1263:GLY:HA3	5:e:1380:ILE:O	2.19	0.42
5:e:1350:GLU:O	5:e:1353:HIS:N	2.52	0.42
5:e:1412:ASN:C	5:e:1414:MET:H	2.24	0.42
5:e:1476:LEU:HD13	5:e:1476:LEU:HA	1.89	0.42
6:f:1002:SER:HA	6:f:1003:LEU:CB	2.35	0.42
6:f:1124:ILE:HB	6:f:1444:ILE:CD1	2.48	0.42
6:f:1196:ILE:O	6:f:1197:MET:HE3	2.19	0.42
6:f:1233:VAL:HG12	6:f:1294:VAL:CG2	2.49	0.42
7:g:1083:LEU:HA	7:g:1086:ILE:HD11	2.01	0.42
7:g:1113:LYS:O	7:g:1116:LEU:HB2	2.19	0.42
7:g:1234:LYS:HA	7:g:1234:LYS:HD3	1.34	0.42
7:g:1450:PRO:O	7:g:1453:LEU:HB2	2.20	0.42
7:g:1516:LEU:CD2	7:g:1517:ILE:N	2.68	0.42
1:i:1267:PRO:HB2	1:i:1269:GLN:CB	2.49	0.42
1:i:1532:LEU:HD22	1:i:1536:VAL:CG2	2.48	0.42
2:j:1236:THR:HA	2:j:1287:ARG:CD	2.50	0.42
2:j:1294:PRO:HA	2:j:1297:LEU:HB2	2.00	0.42
2:j:1319:LEU:HD23	2:j:1319:LEU:O	2.19	0.42
3:k:1061:GLY:CA	3:k:1094:THR:HG22	2.49	0.42
3:k:1229:VAL:HG11	3:k:1234:MET:CE	2.49	0.42
4:l:1221:LYS:HE3	4:l:1306:SER:CB	2.49	0.42
4:l:1389:GLU:O	4:l:1392:ARG:HD3	2.19	0.42
4:l:1439:ILE:O	4:l:1439:ILE:HG22	2.19	0.42
4:l:1485:ARG:H	4:l:1485:ARG:CD	2.27	0.42
6:n:1171:THR:N	6:n:1172:PRO:HD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:n:1196:ILE:O	6:n:1197:MET:HE3	2.19	0.42
6:n:1234:LEU:HD12	6:n:1280:LEU:HD11	2.00	0.42
6:n:1503:ILE:O	6:n:1503:ILE:HG22	2.18	0.42
8:p:1015:LYS:HG3	8:p:1016:GLN:H	1.83	0.42
8:p:1137:PHE:HE2	8:p:1434:ILE:HA	1.84	0.42
1:A:17:GLY:HA2	1:A:547:VAL:HA	2.01	0.42
1:A:478:ARG:O	1:A:479:SER:C	2.62	0.42
1:A:482:ALA:O	1:A:485:GLN:O	2.37	0.42
2:B:236:THR:HA	2:B:287:ARG:CD	2.50	0.42
2:B:317:LEU:C	2:B:319:LEU:H	2.28	0.42
3:C:228:ASP:OD2	3:C:229:VAL:N	2.53	0.42
3:C:291:ARG:N	3:C:292:PRO:CD	2.80	0.42
4:D:72:HIS:CD2	8:H:15:LYS:NZ	2.87	0.42
4:D:205:ASP:C	4:D:207:THR:H	2.28	0.42
4:D:232:ALA:O	4:D:234:ILE:HD12	2.19	0.42
4:D:254:VAL:HG22	8:H:265:VAL:CA	2.34	0.42
5:E:273:THR:HG21	5:E:364:PRO:CA	2.47	0.42
6:F:527:LEU:HD23	6:F:527:LEU:HA	1.71	0.42
7:G:236:PHE:O	7:G:239:PRO:HD3	2.19	0.42
7:G:236:PHE:O	7:G:239:PRO:HG3	2.19	0.42
8:H:35:ILE:CD1	8:H:82:VAL:HA	2.49	0.42
8:H:338:ALA:N	8:H:353:GLY:HA3	2.33	0.42
1:I:109:LEU:O	1:I:110:LYS:C	2.62	0.42
1:I:363:GLN:HE21	1:I:363:GLN:HB2	1.66	0.42
2:J:226:ILE:HG13	2:J:282:ASN:OD1	2.18	0.42
2:J:490:SER:HB2	2:J:492:LYS:CE	2.49	0.42
2:J:513:ASN:O	2:J:514:ILE:CD1	2.46	0.42
3:K:61:GLY:CA	3:K:94:THR:HG22	2.49	0.42
3:K:229:VAL:HG11	3:K:234:MET:CE	2.49	0.42
5:M:297:LYS:HA	5:M:297:LYS:HD2	1.66	0.42
5:M:320:VAL:HG22	5:M:341:PRO:CD	2.40	0.42
7:O:86:ILE:HG13	7:O:86:ILE:H	1.58	0.42
7:O:346:LEU:HD23	7:O:346:LEU:N	2.33	0.42
8:P:35:ILE:HD13	8:P:82:VAL:HG22	2.00	0.42
8:P:177:ILE:O	8:P:181:LEU:HD12	2.19	0.42
8:P:486:GLU:N	8:P:487:PRO:HA	2.34	0.42
1:a:1091:ASP:HA	1:a:1095:GLY:HA2	2.00	0.42
1:a:1431:ILE:HD12	1:a:1431:ILE:HA	1.94	0.42
1:a:1460:LYS:O	1:a:1464:VAL:HG23	2.18	0.42
4:d:1094:THR:O	4:d:1096:VAL:N	2.52	0.42
4:d:1518:ILE:HA	4:d:1521:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1521:ILE:CD1	7:g:1062:ILE:HD12	2.46	0.42
5:e:1485:GLU:HB2	5:e:1491:PRO:HG3	2.01	0.42
6:f:1491:VAL:HG12	6:f:1492:ASP:H	1.82	0.42
7:g:1139:LYS:CB	7:g:1420:VAL:HG12	2.49	0.42
7:g:1220:PHE:C	7:g:1222:LYS:H	2.26	0.42
7:g:1282:LEU:HD12	7:g:1283:ARG:N	2.34	0.42
8:h:1035:ILE:CD1	8:h:1082:VAL:HA	2.49	0.42
8:h:1463:LEU:CD1	9:h:1601:ADP:H8	2.32	0.42
1:i:1296:VAL:O	1:i:1297:LEU:HD23	2.19	0.42
1:i:1396:ASP:O	1:i:1399:GLU:HB3	2.19	0.42
2:j:1159:THR:CG2	2:j:1487:ILE:HA	2.50	0.42
3:k:1050:ASP:OD1	3:k:1054:GLY:HA3	2.18	0.42
3:k:1516:SER:C	3:k:1518:CYS:H	2.27	0.42
4:l:1521:ILE:CG2	7:o:1051:ILE:HA	2.37	0.42
5:m:1477:ASP:O	5:m:1480:PRO:HD2	2.19	0.42
6:n:1433:LYS:HB3	6:n:1444:ILE:HG13	2.00	0.42
7:o:1113:LYS:O	7:o:1116:LEU:HB2	2.19	0.42
7:o:1189:LEU:CB	7:o:1190:ASP:HB3	2.46	0.42
7:o:1282:LEU:HD12	7:o:1283:ARG:N	2.34	0.42
1:A:183:ALA:CB	1:A:383:SER:HB2	2.47	0.42
1:A:281:VAL:O	1:A:285:VAL:HG23	2.19	0.42
1:A:301:GLY:HA2	1:A:320:ARG:H	1.84	0.42
2:B:218:PHE:HA	2:B:304:ASN:O	2.19	0.42
2:B:326:VAL:HG11	3:C:304:LEU:HD13	2.01	0.42
2:B:372:ALA:HA	6:F:519:GLY:HA2	2.01	0.42
4:D:77:MET:O	4:D:81:VAL:HG23	2.18	0.42
6:F:6:LEU:HD12	6:F:7:ASN:H	1.85	0.42
6:F:136:PHE:O	6:F:138:ILE:HG13	2.19	0.42
6:F:209:PHE:CE2	6:F:376:CYS:SG	2.97	0.42
6:F:433:LYS:CG	6:F:444:ILE:HG13	2.48	0.42
6:F:485:GLU:O	6:F:488:TYR:N	2.53	0.42
8:H:137:PHE:HE2	8:H:434:ILE:HA	1.84	0.42
8:H:306:GLY:O	8:H:310:LEU:HB2	2.20	0.42
1:I:17:GLY:HA2	1:I:547:VAL:HA	2.01	0.42
1:I:133:LEU:HG	1:I:532:LEU:HD12	2.01	0.42
1:I:296:VAL:O	1:I:297:LEU:HD23	2.19	0.42
1:I:301:GLY:HA2	1:I:320:ARG:H	1.84	0.42
2:J:76:VAL:O	2:J:79:ASN:HB2	2.20	0.42
3:K:75:ALA:C	3:K:77:SER:N	2.77	0.42
3:K:228:ASP:OD2	3:K:229:VAL:N	2.52	0.42
3:K:320:VAL:HG12	3:K:324:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:94:THR:O	4:L:96:VAL:N	2.52	0.42
4:L:242:SER:HB3	4:L:298:ASN:HB2	2.00	0.42
4:L:248:THR:O	4:L:250:ASN:OD1	2.37	0.42
4:L:325:SER:HB3	4:L:332:PRO:CG	2.49	0.42
5:M:252:PRO:C	5:M:254:MET:O	2.63	0.42
6:N:238:VAL:HG22	6:N:239:SER:H	1.83	0.42
6:N:433:LYS:HB3	6:N:444:ILE:HG13	2.00	0.42
7:O:448:VAL:HA	7:O:451:ARG:HB2	2.00	0.42
8:P:296:VAL:HG11	8:P:299:ILE:HD11	2.01	0.42
8:P:335:VAL:HG13	8:P:379:SER:CB	2.46	0.42
1:a:1025:ILE:HG22	1:a:1026:ARG:N	2.32	0.42
1:a:1143:VAL:CG1	1:a:1420:PRO:HD2	2.50	0.42
1:a:1281:VAL:O	1:a:1285:VAL:HG23	2.19	0.42
1:a:1478:ARG:O	1:a:1479:SER:C	2.62	0.42
2:b:1060:GLY:H	2:b:1093:THR:HG22	1.83	0.42
2:b:1294:PRO:HA	2:b:1297:LEU:HB2	2.00	0.42
3:c:1516:SER:C	3:c:1518:CYS:H	2.27	0.42
4:d:1234:ILE:HD12	4:d:1234:ILE:N	2.35	0.42
4:d:1325:SER:HB3	4:d:1332:PRO:CG	2.49	0.42
4:d:1389:GLU:O	4:d:1392:ARG:HD3	2.19	0.42
5:e:1352:GLU:CD	5:e:1353:HIS:H	2.26	0.42
6:f:1147:ARG:O	6:f:1147:ARG:HG3	2.20	0.42
7:g:1104:LEU:O	7:g:1108:LEU:HB2	2.20	0.42
7:g:1132:ALA:HB2	7:g:1439:ILE:HD13	2.01	0.42
8:h:1467:ALA:HB2	8:h:1493:ASP:CB	2.49	0.42
2:j:1287:ARG:H	2:j:1287:ARG:HG2	1.58	0.42
3:k:1034:VAL:HG12	3:k:1035:ILE:N	2.35	0.42
3:k:1495:VAL:HG23	3:k:1500:TRP:CH2	2.48	0.42
4:l:1205:ASP:C	4:l:1207:THR:N	2.77	0.42
6:n:1324:ASN:HA	6:n:1327:ARG:HB2	2.00	0.42
6:n:1430:ASN:C	6:n:1432:ASN:N	2.78	0.42
7:o:1017:THR:HG21	7:o:1525:THR:O	2.19	0.42
7:o:1055:THR:HG21	7:o:1072:LEU:HD23	2.01	0.42
7:o:1236:PHE:O	7:o:1239:PRO:HG3	2.19	0.42
8:p:1163:ILE:HD11	8:p:1404:GLY:CA	2.50	0.42
8:p:1302:GLY:HA2	8:p:1324:PRO:HD2	2.01	0.42
8:p:1318:ILE:HG22	8:p:1319:LEU:O	2.19	0.42
8:p:1420:LEU:HD23	8:p:1421:PRO:HD2	2.01	0.42
8:p:1523:THR:HA	8:p:1526:PHE:HD2	1.83	0.42
1:A:187:VAL:O	1:A:381:SER:CA	2.67	0.42
1:A:296:VAL:O	1:A:297:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:159:THR:CG2	2:B:487:ILE:HA	2.50	0.42
2:B:415:VAL:HB	2:B:434:ALA:HB2	2.02	0.42
3:C:243:VAL:O	3:C:348:VAL:HG13	2.19	0.42
3:C:298:GLU:HG3	3:C:325:ASN:HD22	1.84	0.42
3:C:332:THR:HB	3:C:349:GLY:CA	2.49	0.42
3:C:415:GLY:HA3	3:C:501:GLU:OE1	2.20	0.42
4:D:389:GLU:O	4:D:392:ARG:HD3	2.19	0.42
5:E:269:LEU:HD22	5:E:269:LEU:H	1.84	0.42
5:E:350:GLU:O	5:E:353:HIS:N	2.52	0.42
5:E:445:ALA:CB	5:E:510:ILE:O	2.67	0.42
6:F:124:ILE:HB	6:F:444:ILE:CD1	2.48	0.42
6:F:147:ARG:HG3	6:F:147:ARG:O	2.20	0.42
1:I:431:ILE:HG21	1:I:482:ALA:HA	2.01	0.42
1:I:532:LEU:HD22	1:I:536:VAL:CG2	2.48	0.42
2:J:132:LEU:HD21	2:J:495:ARG:CG	2.43	0.42
2:J:213:ILE:HG23	2:J:354:LEU:HD21	2.02	0.42
2:J:404:GLY:HA2	9:J:601:ADP:N3	2.34	0.42
3:K:129:LEU:HD21	3:K:511:LYS:HA	2.00	0.42
3:K:213:ASP:CG	3:K:214:VAL:N	2.78	0.42
3:K:243:VAL:O	3:K:348:VAL:HG13	2.19	0.42
3:K:286:GLN:OE1	3:K:340:VAL:HG22	2.19	0.42
4:L:439:ILE:O	4:L:439:ILE:HG22	2.19	0.42
4:L:486:ARG:C	4:L:488:GLY:H	2.28	0.42
6:N:171:THR:N	6:N:172:PRO:HD2	2.33	0.42
7:O:41:LYS:N	7:O:42:PRO:HD2	2.34	0.42
7:O:455:GLU:CG	7:O:461:ALA:HB2	2.49	0.42
8:P:77:ILE:H	8:P:77:ILE:CD1	2.26	0.42
8:P:269:ASN:O	8:P:272:GLU:HB2	2.19	0.42
1:a:1066:GLY:HA3	1:a:1099:THR:HG22	2.01	0.42
1:a:1133:LEU:HG	1:a:1532:LEU:HD12	2.01	0.42
2:b:1047:GLN:HE22	2:b:1053:THR:N	2.17	0.42
2:b:1231:ILE:HG22	2:b:1232:LEU:H	1.83	0.42
3:c:1061:GLY:CA	3:c:1094:THR:HG22	2.49	0.42
3:c:1213:ASP:CG	3:c:1214:VAL:N	2.78	0.42
4:d:1292:ILE:CG1	4:d:1293:LEU:HA	2.47	0.42
4:d:1486:ARG:C	4:d:1488:GLY:H	2.28	0.42
5:e:1252:PRO:C	5:e:1254:MET:O	2.63	0.42
5:e:1310:ILE:HG23	5:e:1335:LEU:HD23	2.01	0.42
5:e:1362:ILE:HD12	5:e:1362:ILE:N	2.34	0.42
6:f:1420:ILE:O	6:f:1424:ARG:N	2.40	0.42
7:g:1073:LEU:C	7:g:1073:LEU:HD13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1335:VAL:HG23	8:h:1381:THR:OG1	2.19	0.42
1:i:1133:LEU:HD13	1:i:1133:LEU:C	2.45	0.42
1:i:1335:ALA:HB2	1:i:1356:GLY:CA	2.49	0.42
1:i:1478:ARG:O	1:i:1479:SER:C	2.62	0.42
2:j:1070:ASP:HB3	6:n:1005:LEU:HD22	1.93	0.42
2:j:1213:ILE:HG23	2:j:1354:LEU:HD21	2.02	0.42
3:k:1140:SER:HB2	3:k:1411:SER:HB2	2.02	0.42
3:k:1182:VAL:HG23	3:k:1184:LYS:HG3	2.02	0.42
3:k:1250:LEU:CG	3:k:1301:VAL:HB	2.49	0.42
4:l:1038:SER:HB3	4:l:1046:LYS:HZ3	1.84	0.42
4:l:1058:SER:HA	4:l:1392:ARG:HH12	1.84	0.42
4:l:1205:ASP:C	4:l:1207:THR:H	2.28	0.42
5:m:1263:GLY:HA3	5:m:1380:ILE:O	2.20	0.42
6:n:1331:VAL:O	6:n:1332:THR:CB	2.68	0.42
6:n:1429:ALA:O	6:n:1432:ASN:HB2	2.19	0.42
6:n:1485:GLU:O	6:n:1488:TYR:N	2.53	0.42
7:o:1516:LEU:CD2	7:o:1517:ILE:N	2.68	0.42
8:p:1269:ASN:O	8:p:1272:GLU:HB2	2.19	0.42
1:A:550:GLU:HA	1:A:551:PRO:HD3	1.88	0.42
3:C:75:ALA:C	3:C:77:SER:N	2.77	0.42
3:C:140:SER:HB2	3:C:411:SER:HB2	2.02	0.42
4:D:94:THR:O	4:D:96:VAL:N	2.52	0.42
5:E:476:LEU:HD13	5:E:476:LEU:HA	1.89	0.42
6:F:11:GLU:N	6:F:11:GLU:OE2	2.52	0.42
6:F:230:ASN:N	6:F:353:LEU:HD23	2.35	0.42
7:G:83:LEU:HA	7:G:86:ILE:HD11	2.01	0.42
7:G:220:PHE:C	7:G:222:LYS:H	2.26	0.42
8:H:177:ILE:O	8:H:181:LEU:HD12	2.20	0.42
8:H:296:VAL:HG11	8:H:299:ILE:HD11	2.01	0.42
8:H:318:ILE:HG22	8:H:319:LEU:O	2.19	0.42
1:I:115:LEU:HA	1:I:115:LEU:HD23	1.80	0.42
1:I:351:GLU:H	1:I:354:TYR:HD2	1.68	0.42
2:J:116:HIS:CE1	2:J:118:GLN:CB	2.99	0.42
2:J:231:ILE:HG22	2:J:232:LEU:H	1.83	0.42
2:J:415:VAL:HB	2:J:434:ALA:HB2	2.02	0.42
3:K:9:ASN:HB2	8:P:78:VAL:CG1	2.50	0.42
4:L:178:VAL:HG11	4:L:401:ILE:CD1	2.48	0.42
4:L:234:ILE:HD12	4:L:234:ILE:N	2.35	0.42
4:L:521:ILE:HD13	7:O:52:LEU:HB2	2.00	0.42
5:M:263:GLY:HA3	5:M:380:ILE:O	2.20	0.42
5:M:269:LEU:HD22	5:M:269:LEU:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:280:LYS:HA	5:M:281:PRO:HD3	1.80	0.42
5:M:445:ALA:CB	5:M:510:ILE:O	2.67	0.42
5:M:466:GLN:HG3	5:M:467:TYR:CD2	2.54	0.42
6:N:6:LEU:HD13	6:N:7:ASN:H	1.85	0.42
6:N:196:ILE:O	6:N:197:MET:HE3	2.20	0.42
7:O:113:LYS:O	7:O:116:LEU:HB2	2.19	0.42
7:O:282:LEU:HD12	7:O:283:ARG:N	2.34	0.42
8:P:94:ILE:H	8:P:94:ILE:HG13	1.50	0.42
8:P:163:ILE:HD11	8:P:404:GLY:CA	2.50	0.42
8:P:311:HIS:CG	8:P:312:TYR:N	2.86	0.42
1:a:1219:VAL:HG12	1:a:1221:GLY:N	2.35	0.42
1:a:1267:PRO:CA	1:a:1268:GLU:CB	2.95	0.42
1:a:1267:PRO:HB2	1:a:1269:GLN:CB	2.49	0.42
1:a:1351:GLU:H	1:a:1354:TYR:HD2	1.68	0.42
1:a:1431:ILE:HG21	1:a:1482:ALA:HA	2.01	0.42
2:b:1030:GLY:HA2	2:b:1033:VAL:HG21	1.98	0.42
2:b:1459:LEU:CD1	2:b:1471:GLY:O	2.68	0.42
2:b:1474:LEU:N	2:b:1474:LEU:HD23	2.35	0.42
4:d:1200:VAL:HA	4:d:1381:GLY:O	2.18	0.42
5:e:1314:LYS:HZ1	5:e:1338:ASN:HA	1.84	0.42
5:e:1338:ASN:HB2	5:e:1340:LEU:HD22	2.01	0.42
5:e:1431:ARG:HA	5:e:1434:VAL:HG12	2.00	0.42
5:e:1497:THR:O	5:e:1501:LYS:HG2	2.20	0.42
6:f:1003:LEU:CA	6:f:1005:LEU:HG	2.42	0.42
6:f:1136:PHE:O	6:f:1138:ILE:HG13	2.19	0.42
6:f:1422:LEU:CD1	6:f:1517:ILE:HD11	2.50	0.42
6:f:1426:LEU:C	6:f:1426:LEU:HD13	2.44	0.42
7:g:1017:THR:HG21	7:g:1525:THR:O	2.19	0.42
8:h:1146:VAL:HG22	8:h:1147:VAL:N	2.35	0.42
1:i:1109:LEU:O	1:i:1110:LYS:C	2.62	0.42
2:j:1027:ILE:HG21	2:j:1104:ARG:HD2	2.02	0.42
2:j:1058:ASN:HD21	2:j:1093:THR:HG21	1.84	0.42
2:j:1160:THR:HG21	2:j:1390:VAL:HG11	2.01	0.42
2:j:1245:ILE:O	2:j:1246:PHE:HB3	2.19	0.42
2:j:1317:LEU:C	2:j:1319:LEU:H	2.28	0.42
3:k:1099:LEU:O	3:k:1100:ALA:C	2.62	0.42
3:k:1282:LEU:O	3:k:1286:GLN:HG3	2.19	0.42
5:m:1088:ALA:HB1	5:m:1109:LYS:HZ2	1.80	0.42
5:m:1162:GLU:C	5:m:1164:THR:H	2.27	0.42
5:m:1348:GLY:O	5:m:1351:LEU:HD12	2.17	0.42
7:o:1051:ILE:HD12	7:o:1069:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:1130:ARG:HA	7:o:1130:ARG:HE	1.84	0.42
7:o:1139:LYS:CB	7:o:1420:VAL:HG12	2.49	0.42
1:A:12:THR:HA	1:A:13:LEU:HA	1.69	0.42
2:B:49:ALA:HB2	6:F:536:ALA:O	2.20	0.42
2:B:60:GLY:H	2:B:93:THR:HG22	1.84	0.42
3:C:34:VAL:HG12	3:C:35:ILE:N	2.35	0.42
3:C:104:LEU:CD2	3:C:517:ALA:HA	2.49	0.42
3:C:268:ASP:O	3:C:269:TRP:C	2.62	0.42
3:C:320:VAL:HG12	3:C:324:ASP:HB3	2.02	0.42
4:D:221:LYS:HE2	4:D:221:LYS:HB2	1.94	0.42
4:D:221:LYS:HE3	4:D:306:SER:CB	2.49	0.42
4:D:369:ASN:C	4:D:371:ALA:H	2.27	0.42
4:D:499:GLN:HA	4:D:500:PRO:HD3	1.86	0.42
5:E:116:GLY:HA3	5:E:428:CYS:CB	2.50	0.42
6:F:53:ILE:O	6:F:53:ILE:CG1	2.68	0.42
6:F:456:LYS:O	6:F:460:LYS:N	2.53	0.42
7:G:450:PRO:O	7:G:453:LEU:HB2	2.20	0.42
8:H:24:ALA:HB2	8:H:531:ALA:O	2.20	0.42
1:I:129:PHE:N	1:I:129:PHE:HD2	2.17	0.42
2:J:27:ILE:HG21	2:J:104:ARG:HD2	2.02	0.42
2:J:47:GLN:HE22	2:J:52:ASN:C	2.28	0.42
2:J:232:LEU:CD1	2:J:234:ALA:HB2	2.50	0.42
2:J:236:THR:HA	2:J:287:ARG:CD	2.50	0.42
2:J:511:VAL:O	2:J:513:ASN:N	2.49	0.42
3:K:47:MET:CE	3:K:49:LEU:HD21	2.49	0.42
3:K:104:LEU:CD2	3:K:517:ALA:HA	2.49	0.42
3:K:170:LYS:C	3:K:170:LYS:CD	2.92	0.42
3:K:207:GLU:HB2	3:K:380:MET:HA	2.02	0.42
5:M:362:ILE:N	5:M:362:ILE:HD12	2.34	0.42
6:N:56:THR:HB	6:N:390:GLN:HE22	1.79	0.42
7:O:30:ILE:O	7:O:33:CYS:HB3	2.19	0.42
8:P:291:ILE:HD12	8:P:347:PRO:HG3	1.97	0.42
8:P:420:LEU:HD23	8:P:421:PRO:CD	2.50	0.42
8:P:459:VAL:O	8:P:462:THR:HG22	2.20	0.42
1:a:1224:LEU:CD1	1:a:1226:CYS:CB	2.90	0.42
1:a:1335:ALA:HB2	1:a:1356:GLY:CA	2.49	0.42
2:b:1058:ASN:HD21	2:b:1093:THR:HG21	1.84	0.42
2:b:1206:SER:HB2	2:b:1368:VAL:HG22	2.00	0.42
3:c:1085:GLN:NE2	3:c:1508:GLN:OE1	2.53	0.42
3:c:1099:LEU:O	3:c:1100:ALA:C	2.62	0.42
3:c:1207:GLU:HB2	3:c:1380:MET:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:1178:VAL:HG11	4:d:1401:ILE:CD1	2.48	0.42
6:f:1070:SER:O	6:f:1071:PRO:C	2.61	0.42
6:f:1331:VAL:O	6:f:1332:THR:CB	2.68	0.42
7:g:1036:VAL:CG2	7:g:1037:GLN:N	2.83	0.42
7:g:1101:VAL:HG22	7:g:1506:ALA:HA	2.01	0.42
8:h:1035:ILE:HD13	8:h:1082:VAL:HG22	2.00	0.42
8:h:1048:PRO:CA	8:h:1169:SER:O	2.68	0.42
8:h:1226:MET:HE2	8:h:1228:PHE:CE2	2.55	0.42
8:h:1293:ASP:C	8:h:1295:GLY:H	2.27	0.42
1:i:1187:VAL:O	1:i:1381:SER:CA	2.67	0.42
1:i:1344:LEU:HD12	1:i:1345:GLU:H	1.85	0.42
1:i:1363:GLN:HE21	1:i:1363:GLN:HB2	1.66	0.42
1:i:1541:ILE:HD13	5:m:1073:ILE:HG13	2.01	0.42
2:j:1032:LEU:CD1	6:n:1532:GLU:CD	2.93	0.42
2:j:1076:VAL:O	2:j:1079:ASN:HB2	2.20	0.42
2:j:1127:ALA:HB1	2:j:1430:VAL:HG13	2.02	0.42
3:k:1320:VAL:HG12	3:k:1324:ASP:HB3	2.02	0.42
4:l:1524:ILE:CB	7:o:1052:LEU:O	2.68	0.42
5:m:1268:LYS:O	5:m:1319:ASP:N	2.53	0.42
6:n:1195:GLU:HG2	6:n:1197:MET:HE1	2.01	0.42
6:n:1233:VAL:HG12	6:n:1294:VAL:CG2	2.49	0.42
6:n:1422:LEU:CD1	6:n:1517:ILE:HD11	2.50	0.42
7:o:1073:LEU:C	7:o:1073:LEU:HD13	2.44	0.42
7:o:1101:VAL:HG22	7:o:1506:ALA:HA	2.01	0.42
7:o:1204:ILE:HA	7:o:1205:PRO:HD3	1.79	0.42
1:A:91:ASP:HA	1:A:95:GLY:HA2	2.00	0.42
1:A:143:VAL:CG1	1:A:420:PRO:HD2	2.50	0.42
1:A:335:ALA:HB2	1:A:356:GLY:CA	2.49	0.42
2:B:120:ILE:HG23	2:B:124:TYR:CE1	2.54	0.42
2:B:243:VAL:CG1	2:B:245:ILE:HG13	2.49	0.42
2:B:507:VAL:HG21	3:C:388:ILE:HG12	2.01	0.42
2:B:513:ASN:C	2:B:514:ILE:HD13	2.36	0.42
3:C:84:THR:O	3:C:85:GLN:C	2.60	0.42
3:C:182:VAL:HG23	3:C:184:LYS:HG3	2.02	0.42
3:C:207:GLU:HB2	3:C:380:MET:HA	2.02	0.42
3:C:286:GLN:OE1	3:C:340:VAL:HG22	2.19	0.42
4:D:81:VAL:HG22	7:G:382:ALA:CB	2.49	0.42
4:D:99:LEU:HA	4:D:449:VAL:HG11	2.02	0.42
4:D:439:ILE:O	4:D:439:ILE:HG22	2.19	0.42
4:D:486:ARG:C	4:D:488:GLY:H	2.28	0.42
6:F:454:ILE:O	6:F:457:THR:OG1	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:35:ILE:HD13	8:H:82:VAL:HG22	2.00	0.42
8:H:420:LEU:HD23	8:H:421:PRO:CD	2.50	0.42
1:I:396:ASP:O	1:I:399:GLU:HB3	2.19	0.42
2:J:161:LEU:HD22	2:J:166:LEU:HD11	2.01	0.42
2:J:424:GLY:O	2:J:427:SER:OG	2.33	0.42
3:K:112:ILE:C	3:K:114:LYS:N	2.74	0.42
3:K:456:LEU:HD22	3:K:456:LEU:HA	1.79	0.42
3:K:527:VAL:HG11	8:P:75:LEU:HD21	2.02	0.42
6:N:320:ALA:O	6:N:321:LYS:C	2.63	0.42
6:N:422:LEU:CD1	6:N:517:ILE:HD11	2.50	0.42
7:O:358:GLY:C	7:O:360:GLU:H	2.28	0.42
8:P:302:GLY:HA2	8:P:324:PRO:HD2	2.01	0.42
8:P:523:THR:HA	8:P:526:PHE:HD2	1.83	0.42
1:a:1133:LEU:HD13	1:a:1133:LEU:C	2.45	0.42
3:c:1075:ALA:C	3:c:1077:SER:N	2.77	0.42
3:c:1170:LYS:C	3:c:1170:LYS:CD	2.92	0.42
4:d:1038:SER:HB3	4:d:1046:LYS:HZ3	1.85	0.42
4:d:1205:ASP:C	4:d:1207:THR:N	2.77	0.42
5:e:1045:GLU:C	5:e:1047:LYS:N	2.75	0.42
5:e:1268:LYS:O	5:e:1319:ASP:N	2.53	0.42
5:e:1466:GLN:HG3	5:e:1467:TYR:CD2	2.54	0.42
6:f:1430:ASN:C	6:f:1432:ASN:N	2.78	0.42
7:g:1051:ILE:HD12	7:g:1069:ILE:HD11	2.01	0.42
7:g:1165:ALA:CB	7:g:1399:ILE:HG21	2.46	0.42
7:g:1454:CYS:HB2	7:g:1461:ALA:HB1	1.98	0.42
8:h:1163:ILE:HD11	8:h:1404:GLY:CA	2.50	0.42
8:h:1300:VAL:HG11	8:h:1332:LEU:CD2	2.49	0.42
4:l:1176:ASP:HB3	4:l:1209:MET:HE2	2.02	0.42
4:l:1248:THR:O	4:l:1250:ASN:CG	2.63	0.42
4:l:1369:ASN:C	4:l:1371:ALA:N	2.78	0.42
6:n:1068:ILE:HD13	6:n:1074:VAL:HG13	2.02	0.42
6:n:1159:LEU:CA	6:n:1164:ALA:HB2	2.41	0.42
6:n:1356:GLN:HA	6:n:1365:THR:HA	2.02	0.42
6:n:1434:LEU:HD23	6:n:1441:LYS:CB	2.40	0.42
7:o:1236:PHE:O	7:o:1239:PRO:HD3	2.19	0.42
1:A:256:MET:H	7:G:255:ASP:CB	2.32	0.42
2:B:155:HIS:O	2:B:159:THR:HG23	2.20	0.42
3:C:99:LEU:O	3:C:100:ALA:C	2.62	0.42
3:C:103:ILE:CG2	3:C:517:ALA:HB1	2.50	0.42
3:C:213:ASP:CG	3:C:214:VAL:N	2.78	0.42
3:C:241:PRO:O	3:C:350:THR:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:9:ALA:HB1	7:G:76:VAL:H	1.85	0.42
4:D:60:ASP:N	4:D:392:ARG:NH2	2.68	0.42
4:D:205:ASP:C	4:D:207:THR:N	2.77	0.42
4:D:226:PRO:HD2	4:D:311:MET:HG2	2.01	0.42
5:E:125:LEU:C	5:E:127:SER:N	2.78	0.42
5:E:252:PRO:C	5:E:254:MET:O	2.63	0.42
5:E:477:ASP:O	5:E:480:PRO:HD2	2.19	0.42
6:F:171:THR:N	6:F:172:PRO:HD2	2.33	0.42
6:F:196:ILE:O	6:F:197:MET:HE3	2.20	0.42
6:F:356:GLN:HA	6:F:365:THR:HA	2.02	0.42
6:F:430:ASN:C	6:F:432:ASN:N	2.78	0.42
7:G:109:MET:SD	7:G:514:THR:HG21	2.59	0.42
7:G:132:ALA:HB2	7:G:439:ILE:HD13	2.01	0.42
7:G:455:GLU:CG	7:G:461:ALA:HB2	2.49	0.42
1:I:55:ASP:C	1:I:57:ILE:N	2.77	0.42
1:I:335:ALA:HB2	1:I:356:GLY:CA	2.50	0.42
2:J:308:HIS:CE1	2:J:313:GLY:HA3	2.54	0.42
2:J:424:GLY:H	2:J:427:SER:HB3	1.85	0.42
4:L:60:ASP:N	4:L:392:ARG:NH2	2.68	0.42
4:L:113:LYS:HB2	4:L:113:LYS:HE3	1.86	0.42
5:M:268:LYS:O	5:M:319:ASP:N	2.53	0.42
5:M:350:GLU:O	5:M:353:HIS:N	2.52	0.42
6:N:83:GLN:O	6:N:84:ASP:C	2.62	0.42
6:N:243:GLU:OE2	6:N:243:GLU:CA	2.52	0.42
6:N:356:GLN:HA	6:N:365:THR:HA	2.02	0.42
7:O:104:LEU:O	7:O:108:LEU:HB2	2.20	0.42
7:O:409:ILE:CG2	7:O:410:VAL:N	2.82	0.42
8:P:256:ILE:HD11	8:P:308:LEU:HD13	2.02	0.42
2:b:1160:THR:HG21	2:b:1390:VAL:HG11	2.01	0.42
2:b:1236:THR:HA	2:b:1287:ARG:CD	2.50	0.42
2:b:1366:THR:O	2:b:1366:THR:OG1	2.30	0.42
3:c:1034:VAL:HG12	3:c:1035:ILE:N	2.35	0.42
3:c:1241:PRO:O	3:c:1350:THR:HA	2.20	0.42
4:d:1065:LEU:HA	4:d:1065:LEU:HD23	1.83	0.42
4:d:1146:ASP:HB2	4:d:1149:GLN:HB2	2.01	0.42
4:d:1423:ARG:O	4:d:1427:LYS:HG2	2.19	0.42
5:e:1087:GLY:HA3	5:e:1120:THR:HG22	2.01	0.42
5:e:1418:GLU:OE2	5:e:1418:GLU:HA	2.20	0.42
8:h:1048:PRO:HG3	8:h:1169:SER:HA	2.01	0.42
1:i:1129:PHE:N	1:i:1129:PHE:HD2	2.17	0.42
1:i:1219:VAL:HG12	1:i:1221:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1345:GLU:HA	1:i:1346:GLY:HA2	1.67	0.42
2:j:1424:GLY:O	2:j:1427:SER:HB3	2.20	0.42
4:l:1233:LYS:C	4:l:1234:ILE:HD12	2.44	0.42
4:l:1248:THR:O	4:l:1250:ASN:OD1	2.37	0.42
5:m:1332:ASN:HA	5:m:1335:LEU:HD12	2.02	0.42
7:o:1083:LEU:HA	7:o:1086:ILE:HD11	2.01	0.42
7:o:1182:CYS:SG	7:o:1183:VAL:N	2.93	0.42
8:p:1420:LEU:HD23	8:p:1421:PRO:CD	2.50	0.42
1:A:73:LEU:O	1:A:74:ASP:OD1	2.36	0.42
1:A:543:THR:O	5:E:72:LYS:HB3	2.20	0.42
2:B:47:GLN:HE22	2:B:53:THR:N	2.17	0.42
2:B:232:LEU:CD1	2:B:234:ALA:HB2	2.50	0.42
2:B:422:ILE:HG22	2:B:424:GLY:CA	2.50	0.42
2:B:459:LEU:CD1	2:B:471:GLY:O	2.68	0.42
4:D:328:LEU:C	4:D:345:ASP:CG	2.88	0.42
5:E:362:ILE:N	5:E:362:ILE:HD12	2.34	0.42
6:F:68:ILE:HD13	6:F:74:VAL:HG13	2.02	0.42
6:F:133:LEU:HD12	6:F:422:LEU:HD11	2.02	0.42
6:F:309:PHE:HB3	6:F:314:ILE:O	2.20	0.42
6:F:422:LEU:CD1	6:F:517:ILE:HD11	2.50	0.42
7:G:83:LEU:HA	7:G:86:ILE:CD1	2.50	0.42
7:G:139:LYS:CB	7:G:420:VAL:HG12	2.49	0.42
8:H:48:PRO:HG3	8:H:169:SER:HA	2.01	0.42
8:H:256:ILE:HD11	8:H:308:LEU:HD13	2.02	0.42
1:I:250:ASN:HD21	1:I:252:GLN:HG2	1.85	0.42
1:I:350:PHE:O	1:I:351:GLU:OE2	2.36	0.42
1:I:549:PRO:HA	5:M:77:PRO:O	2.20	0.42
2:J:57:THR:HG21	2:J:382:ARG:CD	2.46	0.42
2:J:245:ILE:O	2:J:246:PHE:HB3	2.19	0.42
3:K:85:GLN:NE2	3:K:508:GLN:OE1	2.53	0.42
4:L:226:PRO:CD	4:L:311:MET:HG2	2.50	0.42
4:L:232:ALA:O	4:L:234:ILE:HD12	2.19	0.42
4:L:485:ARG:H	4:L:485:ARG:CD	2.27	0.42
5:M:273:THR:HG21	5:M:364:PRO:CA	2.47	0.42
5:M:332:ASN:HA	5:M:335:LEU:HD12	2.02	0.42
6:N:53:ILE:O	6:N:53:ILE:CG1	2.68	0.42
6:N:230:ASN:N	6:N:353:LEU:HD23	2.35	0.42
6:N:309:PHE:HB3	6:N:314:ILE:O	2.20	0.42
7:O:166:MET:O	7:O:171:ILE:HB	2.18	0.42
7:O:182:CYS:SG	7:O:183:VAL:N	2.93	0.42
8:P:226:MET:HE2	8:P:228:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1351:GLU:N	1:a:1351:GLU:OE2	2.52	0.42
1:a:1396:ASP:O	1:a:1399:GLU:HB3	2.19	0.42
2:b:1155:HIS:O	2:b:1159:THR:HG23	2.20	0.42
2:b:1164:LYS:C	2:b:1166:LEU:N	2.77	0.42
2:b:1213:ILE:HG23	2:b:1354:LEU:HD21	2.01	0.42
3:c:1047:MET:CE	3:c:1049:LEU:HD21	2.49	0.42
3:c:1182:VAL:HG23	3:c:1184:LYS:HG3	2.02	0.42
6:f:1016:ASP:HA	6:f:1019:LEU:HB2	2.02	0.42
6:f:1320:ALA:O	6:f:1321:LYS:C	2.63	0.42
7:g:1083:LEU:HA	7:g:1086:ILE:CD1	2.50	0.42
8:h:1318:ILE:HG22	8:h:1319:LEU:O	2.19	0.42
1:i:1017:GLY:HA2	1:i:1547:VAL:HA	2.01	0.42
1:i:1548:ASP:HA	1:i:1549:PRO:HD3	1.85	0.42
3:k:1152:LYS:HG2	3:k:1176:LEU:HG	2.01	0.42
5:m:1099:GLU:O	5:m:1102:LYS:HB2	2.20	0.42
5:m:1107:LEU:CD2	5:m:1544:LEU:HG	2.35	0.42
5:m:1456:GLU:C	5:m:1458:ALA:H	2.27	0.42
7:o:1104:LEU:O	7:o:1108:LEU:HB2	2.20	0.42
7:o:1358:GLY:C	7:o:1360:GLU:H	2.28	0.42
8:p:1335:VAL:HG23	8:p:1381:THR:OG1	2.19	0.42
1:A:219:VAL:HG12	1:A:221:GLY:N	2.34	0.41
1:A:267:PRO:HB2	1:A:269:GLN:CB	2.49	0.41
2:B:15:ALA:O	2:B:19:ARG:HG2	2.20	0.41
2:B:58:ASN:HD21	2:B:93:THR:HG21	1.84	0.41
2:B:408:GLU:CD	2:B:408:GLU:H	2.28	0.41
3:C:303:ASP:HB3	3:C:304:LEU:H	1.46	0.41
4:D:234:ILE:HD12	4:D:234:ILE:N	2.35	0.41
4:D:379:ILE:HD12	4:D:379:ILE:N	2.33	0.41
7:G:358:GLY:C	7:G:360:GLU:H	2.28	0.41
8:H:186:VAL:HA	8:H:207:ILE:HD11	2.02	0.41
8:H:226:MET:HE2	8:H:228:PHE:CE2	2.55	0.41
1:I:143:VAL:CG1	1:I:420:PRO:HD2	2.50	0.41
1:I:219:VAL:HG12	1:I:221:GLY:N	2.35	0.41
2:J:474:LEU:HG	9:J:601:ADP:C2	2.55	0.41
3:K:298:GLU:HG3	3:K:325:ASN:HD22	1.84	0.41
4:L:248:THR:O	4:L:250:ASN:CG	2.63	0.41
4:L:265:LYS:NZ	8:P:343:ARG:HD3	2.36	0.41
4:L:491:ASN:HB2	4:L:494:GLU:CD	2.45	0.41
6:N:36:ASN:CG	6:N:57:LYS:HZ3	2.24	0.41
6:N:147:ARG:O	6:N:147:ARG:HG3	2.20	0.41
6:N:433:LYS:HG3	6:N:444:ILE:CG2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:434:LEU:HD23	6:N:441:LYS:CB	2.40	0.41
7:O:145:VAL:O	7:O:409:ILE:N	2.52	0.41
7:O:450:PRO:O	7:O:453:LEU:HB2	2.20	0.41
8:P:146:VAL:C	8:P:148:GLY:N	2.75	0.41
8:P:163:ILE:HG12	8:P:182:VAL:HG11	2.01	0.41
2:b:1243:VAL:CG1	2:b:1245:ILE:HG13	2.49	0.41
2:b:1317:LEU:C	2:b:1319:LEU:H	2.27	0.41
2:b:1415:VAL:HB	2:b:1434:ALA:HB2	2.02	0.41
3:c:1140:SER:HB2	3:c:1411:SER:HB2	2.02	0.41
5:e:1036:GLY:O	6:n:1112:GLY:O	2.37	0.41
6:f:1063:LEU:HD11	6:f:1095:VAL:HG21	2.02	0.41
6:f:1439:LYS:CG	5:m:1034:ASP:CB	2.98	0.41
7:g:1123:HIS:ND1	7:g:1123:HIS:N	2.66	0.41
7:g:1358:GLY:C	7:g:1360:GLU:H	2.28	0.41
7:g:1436:GLN:C	7:g:1438:ILE:H	2.28	0.41
1:i:1307:LEU:O	1:i:1311:VAL:N	2.53	0.41
2:j:1047:GLN:HE22	2:j:1052:ASN:C	2.28	0.41
2:j:1161:LEU:HD22	2:j:1166:LEU:HD11	2.01	0.41
3:k:1228:ASP:OD2	3:k:1229:VAL:N	2.53	0.41
3:k:1298:GLU:HG3	3:k:1325:ASN:HD22	1.84	0.41
6:n:1154:ALA:HB3	6:n:1402:VAL:CG2	2.47	0.41
6:n:1209:PHE:CE2	6:n:1376:CYS:SG	2.97	0.41
8:p:1054:ILE:CG2	8:p:1055:ILE:N	2.83	0.41
8:p:1226:MET:HE2	8:p:1228:PHE:CE2	2.55	0.41
2:B:47:GLN:HE22	2:B:52:ASN:C	2.28	0.41
2:B:164:LYS:C	2:B:166:LEU:N	2.77	0.41
2:B:424:GLY:H	2:B:427:SER:HB3	1.85	0.41
3:C:170:LYS:C	3:C:170:LYS:CD	2.92	0.41
3:C:516:SER:C	3:C:518:CYS:N	2.78	0.41
4:D:65:LEU:HD23	4:D:65:LEU:HA	1.84	0.41
5:E:38:LYS:HD2	5:E:38:LYS:HA	1.70	0.41
5:E:81:ILE:HD12	5:E:81:ILE:N	2.35	0.41
5:E:268:LYS:O	5:E:319:ASP:N	2.53	0.41
5:E:456:GLU:C	5:E:458:ALA:H	2.27	0.41
6:F:63:LEU:HD11	6:F:95:VAL:HG21	2.03	0.41
6:F:533:LEU:HD23	6:F:533:LEU:N	2.35	0.41
7:G:23:LYS:O	7:G:26:ILE:HG22	2.20	0.41
7:G:104:LEU:O	7:G:108:LEU:HB2	2.20	0.41
7:G:182:CYS:SG	7:G:183:VAL:N	2.93	0.41
7:G:396:ALA:O	7:G:400:VAL:HG13	2.20	0.41
1:I:482:ALA:O	1:I:485:GLN:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:38:GLY:HA3	2:J:474:LEU:HD12	2.02	0.41
2:J:105:GLU:O	2:J:109:LEU:HD23	2.21	0.41
3:K:174:LEU:HD21	3:K:379:ILE:HG21	2.01	0.41
3:K:355:PHE:HE2	3:K:366:SER:HB3	1.84	0.41
3:K:516:SER:C	3:K:518:CYS:H	2.27	0.41
5:M:55:ARG:HG3	5:M:131:ASP:CG	2.45	0.41
5:M:81:ILE:N	5:M:81:ILE:HD12	2.35	0.41
5:M:125:LEU:C	5:M:127:SER:N	2.78	0.41
5:M:418:GLU:OE2	5:M:418:GLU:HA	2.20	0.41
5:M:456:GLU:C	5:M:458:ALA:H	2.27	0.41
6:N:196:ILE:HG22	6:N:378:ILE:HG23	2.02	0.41
6:N:429:ALA:O	6:N:432:ASN:HB2	2.19	0.41
6:N:456:LYS:O	6:N:460:LYS:N	2.53	0.41
6:N:485:GLU:O	6:N:488:TYR:N	2.53	0.41
7:O:109:MET:SD	7:O:514:THR:HG21	2.59	0.41
1:a:1119:LYS:HE3	1:a:1119:LYS:HB3	1.76	0.41
2:b:1159:THR:CG2	2:b:1487:ILE:HA	2.50	0.41
3:c:1056:VAL:CA	3:c:1057:LEU:HD23	2.50	0.41
3:c:1174:LEU:HD21	3:c:1379:ILE:HG21	2.01	0.41
4:d:1248:THR:O	4:d:1250:ASN:CG	2.63	0.41
4:d:1524:ILE:CG2	7:g:1052:LEU:O	2.68	0.41
5:e:1250:SER:O	5:e:1251:HIS:O	2.38	0.41
6:f:1057:LYS:HZ2	6:f:1057:LYS:HG2	1.62	0.41
6:f:1068:ILE:HD13	6:f:1074:VAL:HG13	2.01	0.41
6:f:1075:LEU:HD23	6:f:1076:ILE:N	2.36	0.41
6:f:1090:GLY:O	6:f:1094:VAL:CG2	2.34	0.41
6:f:1196:ILE:HG22	6:f:1378:ILE:HG23	2.02	0.41
6:f:1456:LYS:O	6:f:1460:LYS:N	2.53	0.41
6:f:1485:GLU:O	6:f:1488:TYR:N	2.53	0.41
7:g:1023:LYS:O	7:g:1026:ILE:HG22	2.20	0.41
8:h:1062:ILE:HG23	8:h:1392:ASN:OD1	2.20	0.41
8:h:1459:VAL:O	8:h:1462:THR:HG22	2.20	0.41
2:j:1232:LEU:C	2:j:1232:LEU:HD13	2.45	0.41
2:j:1474:LEU:HD23	2:j:1474:LEU:N	2.35	0.41
3:k:1129:LEU:HD21	3:k:1511:LYS:HA	2.00	0.41
3:k:1241:PRO:O	3:k:1350:THR:HA	2.20	0.41
4:l:1024:ASN:ND2	4:l:1524:ILE:HD11	2.30	0.41
4:l:1425:LEU:HD12	4:l:1444:ALA:HA	2.03	0.41
5:m:1120:THR:O	5:m:1124:VAL:HG23	2.20	0.41
5:m:1127:SER:OG	5:m:1128:ALA:N	2.53	0.41
5:m:1250:SER:O	5:m:1251:HIS:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1252:PRO:C	5:m:1254:MET:O	2.63	0.41
5:m:1472:PHE:HZ	5:m:1542:THR:HG22	1.86	0.41
6:n:1053:ILE:O	6:n:1053:ILE:CG1	2.68	0.41
6:n:1181:VAL:O	6:n:1184:ALA:HB3	2.20	0.41
6:n:1237:ASN:O	6:n:1237:ASN:CG	2.63	0.41
7:o:1041:LYS:N	7:o:1042:PRO:HD2	2.34	0.41
7:o:1449:ILE:CB	7:o:1450:PRO:HD3	2.50	0.41
8:p:1048:PRO:HG3	8:p:1169:SER:HA	2.01	0.41
8:p:1486:GLU:N	8:p:1487:PRO:HA	2.34	0.41
1:A:273:ILE:HG21	5:E:295:TYR:CE2	2.54	0.41
1:A:351:GLU:H	1:A:354:TYR:HD2	1.68	0.41
1:A:498:ARG:O	1:A:499:ASN:HB3	2.20	0.41
2:B:27:ILE:HG21	2:B:104:ARG:HD2	2.02	0.41
2:B:57:THR:HG21	2:B:382:ARG:CD	2.46	0.41
2:B:320:VAL:HG21	2:B:337:LEU:CA	2.51	0.41
2:B:492:LYS:O	2:B:495:ARG:HB3	2.20	0.41
3:C:219:VAL:O	3:C:220:LEU:C	2.64	0.41
3:C:229:VAL:CG1	3:C:230:VAL:N	2.84	0.41
4:D:248:THR:O	4:D:250:ASN:CG	2.63	0.41
4:D:411:ILE:O	4:D:498:LEU:HB3	2.21	0.41
5:E:73:ILE:HG12	5:E:83:ILE:CG1	2.44	0.41
5:E:167:ASP:HB3	5:E:168:ILE:H	1.58	0.41
6:F:221:HIS:HA	6:F:222:PRO:HD3	1.92	0.41
6:F:524:ALA:O	6:F:528:LEU:HG	2.21	0.41
7:G:58:GLN:C	8:P:7:GLN:HE22	2.27	0.41
8:H:54:ILE:CG2	8:H:55:ILE:N	2.83	0.41
8:H:269:ASN:O	8:H:272:GLU:HB2	2.19	0.41
2:J:45:LEU:HD23	2:J:56:VAL:HG13	2.02	0.41
2:J:159:THR:CG2	2:J:487:ILE:HA	2.49	0.41
2:J:160:THR:HG21	2:J:390:VAL:HG11	2.01	0.41
2:J:263:LYS:NZ	3:K:266:GLU:HG2	2.35	0.41
2:J:422:ILE:HG22	2:J:424:GLY:CA	2.50	0.41
2:J:474:LEU:HD23	2:J:474:LEU:N	2.35	0.41
2:J:492:LYS:O	2:J:495:ARG:HB3	2.21	0.41
3:K:103:ILE:CG2	3:K:517:ALA:HB1	2.50	0.41
3:K:140:SER:HB2	3:K:411:SER:HB2	2.02	0.41
3:K:244:VAL:HG22	3:K:348:VAL:HG22	2.03	0.41
3:K:415:GLY:HA3	3:K:501:GLU:OE1	2.20	0.41
4:L:157:SER:C	4:L:159:SER:N	2.79	0.41
4:L:195:ARG:C	4:L:196:LEU:HD23	2.45	0.41
5:M:485:GLU:HB2	5:M:491:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:133:LEU:HD12	6:N:422:LEU:HD11	2.02	0.41
7:O:23:LYS:O	7:O:26:ILE:HG22	2.20	0.41
7:O:236:PHE:O	7:O:239:PRO:HD3	2.19	0.41
7:O:303:ALA:O	7:O:307:PHE:CD2	2.70	0.41
8:P:24:ALA:HB2	8:P:531:ALA:O	2.20	0.41
8:P:62:ILE:HG23	8:P:392:ASN:OD1	2.20	0.41
8:P:92:GLN:HE21	8:P:92:GLN:HB3	1.63	0.41
8:P:293:ASP:C	8:P:295:GLY:H	2.27	0.41
1:a:1017:GLY:HA2	1:a:1547:VAL:HA	2.01	0.41
1:a:1109:LEU:O	1:a:1110:LYS:C	2.62	0.41
2:b:1043:ASP:O	6:f:1530:CYS:HA	2.20	0.41
2:b:1081:SER:C	2:b:1083:VAL:H	2.28	0.41
2:b:1232:LEU:C	2:b:1232:LEU:HD13	2.45	0.41
2:b:1408:GLU:CD	2:b:1408:GLU:H	2.28	0.41
3:c:1103:ILE:CG2	3:c:1517:ALA:HB1	2.50	0.41
3:c:1230:VAL:O	3:c:1231:HIS:CG	2.74	0.41
3:c:1245:LEU:HA	3:c:1296:ILE:O	2.21	0.41
3:c:1282:LEU:O	3:c:1286:GLN:HG3	2.19	0.41
4:d:1369:ASN:C	4:d:1371:ALA:H	2.27	0.41
4:d:1461:ASN:HD22	4:d:1462:SER:H	1.69	0.41
5:e:1086:ASP:O	5:e:1090:ILE:HG13	2.20	0.41
5:e:1158:ILE:CB	5:e:1539:LEU:HD21	2.51	0.41
5:e:1451:SER:O	5:e:1455:SER:HB2	2.21	0.41
6:f:1309:PHE:HB3	6:f:1314:ILE:O	2.20	0.41
6:f:1533:LEU:N	6:f:1533:LEU:HD23	2.35	0.41
7:g:1449:ILE:CB	7:g:1450:PRO:HD3	2.50	0.41
8:h:1306:GLY:O	8:h:1310:LEU:HB2	2.20	0.41
8:h:1420:LEU:HD23	8:h:1421:PRO:CD	2.50	0.41
8:h:1463:LEU:HD11	9:h:1601:ADP:H8	1.84	0.41
1:i:1133:LEU:HG	1:i:1532:LEU:HD12	2.01	0.41
2:j:1081:SER:C	2:j:1083:VAL:H	2.28	0.41
2:j:1088:VAL:HG12	2:j:1090:ASP:H	1.85	0.41
2:j:1155:HIS:O	2:j:1159:THR:HG23	2.20	0.41
2:j:1232:LEU:CD1	2:j:1234:ALA:HB2	2.50	0.41
2:j:1441:PRO:O	2:j:1442:THR:C	2.64	0.41
2:j:1459:LEU:CD1	2:j:1471:GLY:O	2.68	0.41
3:k:1056:VAL:CA	3:k:1057:LEU:HD23	2.50	0.41
3:k:1085:GLN:NE2	3:k:1508:GLN:OE1	2.53	0.41
4:l:1226:PRO:CD	4:l:1311:MET:HG2	2.50	0.41
4:l:1423:ARG:O	4:l:1427:LYS:HG2	2.19	0.41
4:l:1518:ILE:HA	4:l:1521:ILE:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:m:1116:GLY:HA3	5:m:1428:CYS:CB	2.50	0.41
5:m:1362:ILE:HD12	5:m:1362:ILE:N	2.34	0.41
5:m:1451:SER:O	5:m:1455:SER:HB2	2.20	0.41
6:n:1016:ASP:HA	6:n:1019:LEU:HB2	2.02	0.41
6:n:1048:ASP:CG	6:n:1050:ALA:H	2.29	0.41
7:o:1123:HIS:ND1	7:o:1123:HIS:N	2.65	0.41
7:o:1396:ALA:O	7:o:1400:VAL:HG13	2.20	0.41
1:A:541:ILE:HD11	5:E:83:ILE:HD13	2.02	0.41
2:B:76:VAL:O	2:B:79:ASN:HB2	2.20	0.41
2:B:127:ALA:HB1	2:B:430:VAL:HG13	2.02	0.41
2:B:161:LEU:HD22	2:B:166:LEU:HD11	2.01	0.41
2:B:246:PHE:CD1	2:B:247:GLY:N	2.89	0.41
2:B:326:VAL:O	2:B:327:SER:HB3	2.21	0.41
3:C:230:VAL:O	3:C:231:HIS:CG	2.74	0.41
4:D:157:SER:C	4:D:159:SER:N	2.79	0.41
5:E:99:GLU:O	5:E:102:LYS:HB2	2.20	0.41
6:F:137:LYS:O	6:F:138:ILE:CB	2.68	0.41
6:F:195:GLU:HG2	6:F:197:MET:HE1	2.01	0.41
8:H:146:VAL:HG22	8:H:147:VAL:N	2.35	0.41
1:I:345:GLU:HA	1:I:346:GLY:HA2	1.67	0.41
2:J:246:PHE:CD1	2:J:247:GLY:N	2.89	0.41
2:J:317:LEU:C	2:J:319:LEU:H	2.27	0.41
2:J:408:GLU:CD	2:J:408:GLU:H	2.28	0.41
5:M:86:ASP:O	5:M:90:ILE:HG13	2.20	0.41
5:M:99:GLU:O	5:M:102:LYS:HB2	2.20	0.41
5:M:451:SER:O	5:M:455:SER:HB2	2.20	0.41
6:N:89:ASP:OD1	9:N:601:ADP:O3B	2.38	0.41
6:N:89:ASP:OD1	6:N:90:GLY:N	2.43	0.41
6:N:136:PHE:O	6:N:138:ILE:HG13	2.19	0.41
6:N:167:THR:CB	6:N:169:VAL:N	2.64	0.41
6:N:181:VAL:O	6:N:184:ALA:HB3	2.20	0.41
6:N:415:ALA:HB2	6:N:506:ILE:HD13	2.03	0.41
8:P:35:ILE:CD1	8:P:82:VAL:HA	2.50	0.41
1:a:1209:HIS:HE1	7:g:1089:ALA:CB	2.34	0.41
2:b:1005:ILE:CD1	2:b:1007:GLY:H	2.34	0.41
2:b:1038:GLY:HA3	2:b:1474:LEU:HD12	2.02	0.41
3:c:1184:LYS:HA	3:c:1198:ILE:CA	2.51	0.41
3:c:1244:VAL:HG22	3:c:1348:VAL:HG22	2.03	0.41
3:c:1413:SER:HA	3:c:1414:PRO:HD3	1.90	0.41
3:c:1415:GLY:HA3	3:c:1501:GLU:OE1	2.20	0.41
4:d:1205:ASP:C	4:d:1207:THR:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1057:VAL:C	5:e:1059:SER:H	2.29	0.41
5:e:1127:SER:OG	5:e:1128:ALA:N	2.53	0.41
5:e:1250:SER:O	5:e:1251:HIS:CG	2.74	0.41
5:e:1273:THR:HG21	5:e:1364:PRO:CA	2.47	0.41
6:f:1181:VAL:O	6:f:1184:ALA:HB3	2.20	0.41
7:g:1516:LEU:HD11	7:g:1517:ILE:CG1	2.48	0.41
8:h:1035:ILE:HG23	8:h:1085:LEU:HD12	2.01	0.41
1:i:1143:VAL:CG1	1:i:1420:PRO:HD2	2.50	0.41
1:i:1301:GLY:HA2	1:i:1320:ARG:H	1.84	0.41
2:j:1032:LEU:HD11	6:n:1532:GLU:OE2	2.19	0.41
2:j:1408:GLU:CD	2:j:1408:GLU:H	2.28	0.41
3:k:1015:THR:C	3:k:1016:THR:O	2.62	0.41
3:k:1213:ASP:CG	3:k:1214:VAL:N	2.78	0.41
3:k:1245:LEU:HA	3:k:1296:ILE:O	2.21	0.41
4:l:1369:ASN:C	4:l:1371:ALA:H	2.27	0.41
4:l:1386:ILE:C	4:l:1388:ASP:N	2.76	0.41
5:m:1055:ARG:HG3	5:m:1131:ASP:CG	2.45	0.41
5:m:1310:ILE:HG23	5:m:1335:LEU:HD23	2.01	0.41
5:m:1418:GLU:OE2	5:m:1418:GLU:HA	2.20	0.41
5:m:1497:THR:O	5:m:1501:LYS:HG2	2.20	0.41
6:n:1063:LEU:HD11	6:n:1095:VAL:HG21	2.02	0.41
6:n:1083:GLN:O	6:n:1084:ASP:C	2.62	0.41
6:n:1533:LEU:HD23	6:n:1533:LEU:N	2.35	0.41
8:p:1153:LYS:HD2	8:p:1153:LYS:N	2.31	0.41
8:p:1177:ILE:O	8:p:1181:LEU:HD12	2.19	0.41
1:A:94:ILE:HG22	1:A:95:GLY:N	2.36	0.41
1:A:156:LEU:HD21	1:A:409:VAL:HG13	2.02	0.41
2:B:45:LEU:HB2	6:F:533:LEU:HB2	2.03	0.41
5:E:310:ILE:HG23	5:E:335:LEU:HD23	2.01	0.41
5:E:352:GLU:H	5:E:352:GLU:HG3	1.59	0.41
6:F:48:ASP:CG	6:F:50:ALA:H	2.29	0.41
6:F:171:THR:O	6:F:175:THR:N	2.45	0.41
6:F:178:VAL:HG11	6:F:402:VAL:HG12	2.03	0.41
6:F:212:GLY:HA2	6:F:370:ASN:OD1	2.21	0.41
6:F:466:PRO:O	6:F:468:ASP:N	2.54	0.41
7:G:452:GLN:O	7:G:456:ASN:N	2.49	0.41
8:H:163:ILE:HG12	8:H:182:VAL:HG11	2.01	0.41
2:J:217:LYS:HB3	2:J:217:LYS:HE2	1.75	0.41
2:J:242:LYS:HD2	2:J:243:VAL:N	2.35	0.41
3:K:182:VAL:HG23	3:K:184:LYS:HG3	2.02	0.41
5:M:116:GLY:HA3	5:M:428:CYS:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:120:THR:O	5:M:124:VAL:HG23	2.20	0.41
6:N:154:ALA:HB3	6:N:402:VAL:CG2	2.47	0.41
6:N:390:GLN:HE21	6:N:390:GLN:HA	1.84	0.41
8:P:473:GLU:C	8:P:476:PRO:HD2	2.45	0.41
1:a:1129:PHE:N	1:a:1129:PHE:HD2	2.17	0.41
1:a:1307:LEU:O	1:a:1311:VAL:N	2.53	0.41
2:b:1326:VAL:O	2:b:1327:SER:HB3	2.21	0.41
4:d:1099:LEU:HA	4:d:1449:VAL:HG11	2.02	0.41
4:d:1183:ASP:O	4:d:1187:LYS:HA	2.21	0.41
4:d:1185:ASN:CB	4:d:1186:SER:CB	2.92	0.41
4:d:1195:ARG:C	4:d:1196:LEU:HD23	2.45	0.41
4:d:1521:ILE:CG2	7:g:1050:ASP:O	2.67	0.41
6:f:1048:ASP:CG	6:f:1050:ALA:H	2.29	0.41
6:f:1114:HIS:HA	6:f:1115:PRO:HD3	1.96	0.41
6:f:1447:PHE:CE1	6:f:1521:THR:HG22	2.56	0.41
7:g:1041:LYS:N	7:g:1042:PRO:HD2	2.34	0.41
7:g:1396:ALA:O	7:g:1400:VAL:HG13	2.20	0.41
8:h:1007:GLN:CG	4:l:1071:LEU:O	2.69	0.41
2:j:1317:LEU:O	2:j:1321:THR:N	2.50	0.41
2:j:1397:GLU:HG2	2:j:1492:LYS:HZ3	1.86	0.41
4:l:1060:ASP:N	4:l:1392:ARG:NH2	2.68	0.41
5:m:1057:VAL:C	5:m:1059:SER:H	2.29	0.41
5:m:1250:SER:O	5:m:1251:HIS:CG	2.74	0.41
5:m:1466:GLN:HG3	5:m:1467:TYR:CD2	2.54	0.41
6:n:1426:LEU:HD22	6:n:1426:LEU:HA	1.86	0.41
6:n:1447:PHE:CE1	6:n:1521:THR:HG22	2.56	0.41
6:n:1533:LEU:C	6:n:1534:LEU:HD23	2.46	0.41
7:o:1455:GLU:CG	7:o:1461:ALA:HB2	2.49	0.41
2:B:45:LEU:HD23	2:B:56:VAL:HG13	2.02	0.41
2:B:57:THR:HB	2:B:379:GLU:HG3	2.03	0.41
2:B:105:GLU:O	2:B:109:LEU:HD23	2.21	0.41
2:B:459:LEU:HD22	2:B:472:LEU:CD1	2.51	0.41
3:C:184:LYS:HA	3:C:198:ILE:CA	2.51	0.41
3:C:355:PHE:HE2	3:C:366:SER:HB3	1.84	0.41
4:D:183:ASP:O	4:D:187:LYS:HA	2.21	0.41
4:D:273:ASN:HD22	7:G:268:GLN:NE2	2.17	0.41
4:D:369:ASN:C	4:D:371:ALA:N	2.78	0.41
5:E:250:SER:O	5:E:251:HIS:O	2.38	0.41
5:E:497:THR:O	5:E:501:LYS:HG2	2.20	0.41
6:F:488:TYR:O	6:F:489:VAL:CG1	2.69	0.41
7:G:28:SER:HA	7:G:31:ASN:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:63:ILE:HD12	8:H:74:GLU:CG	2.45	0.41
8:H:293:ASP:C	8:H:295:GLY:H	2.27	0.41
2:J:116:HIS:HA	2:J:117:PRO:HD3	1.74	0.41
2:J:155:HIS:O	2:J:159:THR:HG23	2.20	0.41
2:J:196:ILE:N	2:J:196:ILE:HD12	2.36	0.41
2:J:459:LEU:CD1	2:J:471:GLY:O	2.68	0.41
3:K:184:LYS:HA	3:K:198:ILE:CA	2.51	0.41
4:L:85:GLN:O	4:L:89:ALA:HB3	2.21	0.41
4:L:183:ASP:O	4:L:187:LYS:HA	2.21	0.41
4:L:198:LYS:H	4:L:198:LYS:CD	2.33	0.41
4:L:461:ASN:HD22	4:L:462:SER:H	1.68	0.41
5:M:38:LYS:HA	5:M:38:LYS:HD2	1.70	0.41
6:N:137:LYS:O	6:N:138:ILE:CB	2.69	0.41
7:O:33:CYS:HA	7:O:83:LEU:CD1	2.51	0.41
7:O:488:ILE:H	7:O:488:ILE:CD1	2.21	0.41
8:P:163:ILE:HD11	8:P:404:GLY:C	2.46	0.41
8:P:455:ALA:O	8:P:458:VAL:HG23	2.21	0.41
1:a:1047:VAL:HG13	7:g:1123:HIS:NE2	2.36	0.41
1:a:1055:ASP:C	1:a:1057:ILE:N	2.77	0.41
1:a:1250:ASN:HD21	1:a:1252:GLN:HG2	1.85	0.41
2:b:1004:GLN:HB2	3:c:1071:ALA:HB3	2.03	0.41
2:b:1045:LEU:HD23	2:b:1056:VAL:HG13	2.02	0.41
2:b:1088:VAL:HG12	2:b:1090:ASP:H	1.86	0.41
2:b:1314:VAL:HG11	3:c:1232:PRO:HD3	2.03	0.41
2:b:1424:GLY:H	2:b:1427:SER:HB3	1.85	0.41
3:c:1298:GLU:HG3	3:c:1325:ASN:HD22	1.84	0.41
4:d:1069:ALA:O	8:h:1016:GLN:HB2	2.20	0.41
4:d:1085:GLN:O	4:d:1089:ALA:HB3	2.21	0.41
4:d:1094:THR:C	4:d:1096:VAL:N	2.79	0.41
4:d:1369:ASN:C	4:d:1371:ALA:N	2.78	0.41
4:d:1461:ASN:CB	4:d:1464:LYS:HG2	2.47	0.41
4:d:1521:ILE:HD11	7:g:1062:ILE:HD12	1.94	0.41
5:e:1125:LEU:C	5:e:1127:SER:N	2.78	0.41
5:e:1332:ASN:HA	5:e:1335:LEU:HD12	2.02	0.41
6:f:1182:TYR:C	6:f:1184:ALA:H	2.28	0.41
6:f:1207:THR:O	6:f:1208:THR:HG23	2.21	0.41
6:f:1237:ASN:O	6:f:1237:ASN:CG	2.63	0.41
7:g:1055:THR:HG21	7:g:1072:LEU:HD23	2.01	0.41
7:g:1170:LEU:O	7:g:1170:LEU:CD2	2.58	0.41
7:g:1356:GLN:HG2	7:g:1361:ARG:HD3	2.03	0.41
7:g:1459:PHE:HA	7:g:1460:ASP:HA	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:1109:LEU:HD23	1:i:1109:LEU:HA	1.92	0.41
1:i:1482:ALA:O	1:i:1485:GLN:O	2.37	0.41
2:j:1181:ILE:HG21	2:j:1391:LEU:O	2.21	0.41
2:j:1317:LEU:C	2:j:1319:LEU:N	2.79	0.41
2:j:1415:VAL:HB	2:j:1434:ALA:HB2	2.02	0.41
3:k:1244:VAL:HG22	3:k:1348:VAL:HG22	2.03	0.41
4:l:1234:ILE:HD12	4:l:1234:ILE:N	2.35	0.41
4:l:1464:LYS:O	4:l:1468:GLU:HG3	2.20	0.41
5:m:1158:ILE:CB	5:m:1539:LEU:HD21	2.51	0.41
5:m:1225:LYS:O	5:m:1225:LYS:HG3	2.21	0.41
5:m:1262:GLU:HA	5:m:1263:GLY:HA2	1.67	0.41
6:n:1006:LEU:HD13	6:n:1007:ASN:H	1.85	0.41
6:n:1182:TYR:C	6:n:1184:ALA:H	2.28	0.41
6:n:1221:HIS:HA	6:n:1222:PRO:HD3	1.92	0.41
6:n:1309:PHE:HB3	6:n:1314:ILE:O	2.20	0.41
6:n:1415:ALA:HB2	6:n:1506:ILE:HD13	2.02	0.41
6:n:1420:ILE:O	6:n:1424:ARG:N	2.40	0.41
7:o:1036:VAL:CG2	7:o:1037:GLN:N	2.83	0.41
8:p:1035:ILE:CD1	8:p:1082:VAL:HA	2.49	0.41
8:p:1062:ILE:HG23	8:p:1392:ASN:OD1	2.20	0.41
1:A:344:LEU:HD12	1:A:345:GLU:H	1.85	0.41
2:B:88:VAL:HG12	2:B:90:ASP:H	1.85	0.41
2:B:160:THR:HG21	2:B:390:VAL:HG11	2.01	0.41
2:B:213:ILE:HG23	2:B:354:LEU:HD21	2.01	0.41
2:B:317:LEU:C	2:B:319:LEU:N	2.79	0.41
3:C:244:VAL:HG22	3:C:348:VAL:HG22	2.03	0.41
4:D:79:VAL:C	4:D:81:VAL:H	2.29	0.41
5:E:158:ILE:CB	5:E:539:LEU:HD21	2.51	0.41
5:E:338:ASN:HB2	5:E:340:LEU:HD22	2.02	0.41
5:E:418:GLU:OE2	5:E:418:GLU:HA	2.20	0.41
6:F:105:ALA:O	6:F:107:ARG:N	2.54	0.41
6:F:233:VAL:HG12	6:F:294:VAL:CG2	2.49	0.41
7:G:36:VAL:CG2	7:G:37:GLN:N	2.83	0.41
7:G:41:LYS:N	7:G:42:PRO:HD2	2.34	0.41
7:G:356:GLN:HG2	7:G:361:ARG:HD3	2.03	0.41
7:G:449:ILE:CB	7:G:450:PRO:HD3	2.50	0.41
8:H:62:ILE:HG23	8:H:392:ASN:OD1	2.20	0.41
8:H:92:GLN:HE21	8:H:92:GLN:HB3	1.63	0.41
8:H:459:VAL:HB	8:H:460:PRO:HD3	2.02	0.41
8:H:473:GLU:C	8:H:476:PRO:HD2	2.45	0.41
8:H:487:PRO:HA	8:H:488:GLY:HA3	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:133:LEU:C	1:I:133:LEU:HD13	2.45	0.41
1:I:494:ARG:CA	1:I:495:ARG:C	2.92	0.41
1:I:498:ARG:O	1:I:499:ASN:HB3	2.20	0.41
2:J:232:LEU:HD13	2:J:232:LEU:C	2.45	0.41
3:K:230:VAL:O	3:K:231:HIS:CG	2.74	0.41
4:L:79:VAL:C	4:L:81:VAL:H	2.29	0.41
4:L:176:ASP:HB3	4:L:209:MET:HE2	2.02	0.41
4:L:247:ASP:CG	7:O:250:LEU:HD23	2.45	0.41
4:L:464:LYS:O	4:L:468:GLU:HG3	2.20	0.41
5:M:84:THR:HG21	5:M:421:ARG:HD3	2.03	0.41
5:M:107:LEU:CD2	5:M:544:LEU:HG	2.34	0.41
6:N:63:LEU:HD11	6:N:95:VAL:HG21	2.02	0.41
6:N:207:THR:O	6:N:208:THR:HG23	2.21	0.41
6:N:447:PHE:CE1	6:N:521:THR:HG22	2.56	0.41
7:O:356:GLN:HG2	7:O:361:ARG:HD3	2.03	0.41
8:P:294:MET:HE3	8:P:294:MET:HB3	1.98	0.41
2:b:1061:ALA:HB2	2:b:1085:ASP:HB2	2.02	0.41
2:b:1492:LYS:O	2:b:1495:ARG:HB3	2.20	0.41
3:c:1228:ASP:OD2	3:c:1229:VAL:N	2.53	0.41
3:c:1240:ASN:HA	3:c:1352:CYS:O	2.21	0.41
4:d:1176:ASP:HB3	4:d:1209:MET:HE2	2.02	0.41
4:d:1425:LEU:HD12	4:d:1444:ALA:HA	2.02	0.41
5:e:1084:THR:HG21	5:e:1421:ARG:HD3	2.03	0.41
5:e:1099:GLU:O	5:e:1102:LYS:HB2	2.20	0.41
5:e:1262:GLU:HA	5:e:1263:GLY:HA2	1.67	0.41
5:e:1412:ASN:O	5:e:1413:LYS:CB	2.69	0.41
6:f:1133:LEU:HD12	6:f:1422:LEU:HD11	2.02	0.41
6:f:1195:GLU:HG2	6:f:1197:MET:HE1	2.01	0.41
6:f:1198:GLN:HE21	6:f:1198:GLN:H	1.66	0.41
6:f:1221:HIS:HA	6:f:1222:PRO:HD3	1.92	0.41
6:f:1230:ASN:N	6:f:1353:LEU:HD23	2.35	0.41
6:f:1331:VAL:HG23	6:f:1375:SER:OG	2.21	0.41
6:f:1524:ALA:O	6:f:1528:LEU:HG	2.21	0.41
7:g:1182:CYS:SG	7:g:1183:VAL:N	2.93	0.41
8:h:1024:ALA:HB2	8:h:1531:ALA:O	2.20	0.41
8:h:1178:LEU:HD23	8:h:1178:LEU:HA	1.93	0.41
8:h:1473:GLU:C	8:h:1476:PRO:HD2	2.45	0.41
1:i:1351:GLU:H	1:i:1354:TYR:HD2	1.68	0.41
1:i:1498:ARG:O	1:i:1499:ASN:HB3	2.20	0.41
2:j:1105:GLU:O	2:j:1109:LEU:HD23	2.21	0.41
2:j:1326:VAL:O	2:j:1327:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1240:ASN:HA	3:k:1352:CYS:O	2.21	0.41
3:k:1521:LEU:C	3:k:1523:VAL:H	2.26	0.41
4:l:1138:MET:HE3	4:l:1138:MET:HB3	1.88	0.41
4:l:1157:SER:C	4:l:1159:SER:N	2.79	0.41
4:l:1461:ASN:HD22	4:l:1462:SER:H	1.69	0.41
4:l:1486:ARG:C	4:l:1488:GLY:H	2.28	0.41
5:m:1338:ASN:HB2	5:m:1340:LEU:HD22	2.02	0.41
6:n:1141:THR:HG23	6:n:1142:ASN:N	2.36	0.41
6:n:1466:PRO:O	6:n:1468:ASP:N	2.54	0.41
6:n:1488:TYR:O	6:n:1489:VAL:CG1	2.69	0.41
7:o:1033:CYS:HA	7:o:1083:LEU:CD1	2.51	0.41
7:o:1109:MET:SD	7:o:1514:THR:HG21	2.59	0.41
7:o:1232:GLN:HA	7:o:1233:PRO:HD3	1.90	0.41
7:o:1436:GLN:C	7:o:1438:ILE:H	2.29	0.41
8:p:1146:VAL:HG22	8:p:1147:VAL:N	2.35	0.41
8:p:1306:GLY:O	8:p:1310:LEU:HB2	2.20	0.41
8:p:1473:GLU:C	8:p:1476:PRO:HD2	2.45	0.41
1:A:133:LEU:HG	1:A:532:LEU:HD12	2.02	0.41
2:B:242:LYS:HD2	2:B:243:VAL:N	2.35	0.41
3:C:85:GLN:NE2	3:C:508:GLN:OE1	2.53	0.41
3:C:129:LEU:HD13	3:C:130:THR:N	2.36	0.41
4:D:72:HIS:HA	4:D:73:PRO:HD3	1.96	0.41
4:D:176:ASP:HB3	4:D:209:MET:HE2	2.02	0.41
5:E:557:SER:OG	6:F:67:GLN:N	2.53	0.41
6:F:141:THR:HG23	6:F:142:ASN:N	2.36	0.41
7:G:182:CYS:O	7:G:186:VAL:HG23	2.21	0.41
7:G:399:ILE:HD13	7:G:399:ILE:O	2.21	0.41
8:H:163:ILE:HD11	8:H:404:GLY:C	2.46	0.41
8:H:486:GLU:N	8:H:487:PRO:HA	2.34	0.41
2:J:422:ILE:HD13	2:J:422:ILE:HA	1.93	0.41
3:K:321:LYS:O	3:K:324:ASP:HB2	2.21	0.41
4:L:66:LYS:HA	4:L:66:LYS:HD2	1.62	0.41
4:L:185:ASN:CB	4:L:186:SER:CB	2.92	0.41
5:M:497:THR:O	5:M:501:LYS:HG2	2.20	0.41
6:N:6:LEU:HD12	6:N:7:ASN:H	1.85	0.41
6:N:20:LYS:O	6:N:21:VAL:C	2.64	0.41
6:N:48:ASP:CG	6:N:50:ALA:H	2.29	0.41
6:N:212:GLY:HA2	6:N:370:ASN:OD1	2.21	0.41
6:N:237:ASN:O	6:N:237:ASN:CG	2.63	0.41
6:N:524:ALA:O	6:N:528:LEU:HG	2.21	0.41
6:N:533:LEU:N	6:N:533:LEU:HD23	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:386:LEU:HD12	8:P:386:LEU:N	2.36	0.41
1:a:1054:VAL:HB	7:g:1525:THR:HA	2.02	0.41
1:a:1118:ASN:O	1:a:1119:LYS:CG	2.65	0.41
1:a:1482:ALA:O	1:a:1485:GLN:O	2.37	0.41
2:b:1005:ILE:CG1	2:b:1006:PHE:N	2.81	0.41
2:b:1055:MET:HA	2:b:1055:MET:HE3	2.03	0.41
2:b:1511:VAL:O	2:b:1513:ASN:N	2.49	0.41
3:c:1104:LEU:CD2	3:c:1517:ALA:HA	2.49	0.41
4:d:1060:ASP:N	4:d:1392:ARG:NH2	2.68	0.41
4:d:1123:SER:OG	4:d:1440:TRP:HA	2.21	0.41
4:d:1226:PRO:CD	4:d:1311:MET:HG2	2.50	0.41
6:f:1020:LYS:O	6:f:1021:VAL:C	2.64	0.41
1:i:1055:ASP:C	1:i:1057:ILE:N	2.77	0.41
1:i:1156:LEU:HD22	1:i:1181:VAL:CG1	2.47	0.41
1:i:1156:LEU:HD21	1:i:1409:VAL:HG13	2.02	0.41
2:j:1004:GLN:HB2	3:k:1071:ALA:HB3	2.03	0.41
2:j:1045:LEU:HD23	2:j:1056:VAL:HG13	2.02	0.41
3:k:1104:LEU:CD2	3:k:1517:ALA:HA	2.49	0.41
3:k:1207:GLU:HB2	3:k:1380:MET:HA	2.02	0.41
3:k:1291:ARG:N	3:k:1292:PRO:CD	2.80	0.41
4:l:1035:ILE:HG22	4:l:1098:ILE:HD11	2.03	0.41
4:l:1099:LEU:HA	4:l:1449:VAL:HG11	2.02	0.41
5:m:1281:PRO:C	5:m:1283:THR:H	2.28	0.41
6:n:1020:LYS:O	6:n:1021:VAL:C	2.64	0.41
6:n:1456:LYS:O	6:n:1460:LYS:N	2.53	0.41
7:o:1401:LYS:HB2	7:o:1401:LYS:HE2	1.88	0.41
8:p:1267:LEU:N	8:p:1267:LEU:HD23	2.36	0.41
8:p:1386:LEU:HD12	8:p:1386:LEU:N	2.36	0.41
1:A:51:LYS:O	1:A:62:VAL:HA	2.20	0.41
1:A:209:HIS:HE1	7:G:89:ALA:CB	2.34	0.41
1:A:250:ASN:HD21	1:A:252:GLN:HG2	1.85	0.41
2:B:5:ILE:CD1	2:B:7:GLY:H	2.34	0.41
2:B:142:ASN:CB	2:B:143:SER:CA	2.95	0.41
2:B:232:LEU:HD13	2:B:232:LEU:C	2.45	0.41
2:B:397:GLU:HG2	2:B:492:LYS:HZ3	1.86	0.41
3:C:250:LEU:O	3:C:251:GLU:C	2.64	0.41
3:C:269:TRP:C	3:C:269:TRP:CD1	2.99	0.41
4:D:48:ILE:CD1	8:H:534:ALA:HB3	2.51	0.41
4:D:108:GLU:O	4:D:112:ASN:N	2.50	0.41
4:D:385:MET:HA	4:D:388:ASP:OD2	2.21	0.41
4:D:491:ASN:HB2	4:D:494:GLU:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:225:LYS:HG3	5:E:225:LYS:O	2.21	0.41
5:E:250:SER:O	5:E:251:HIS:CG	2.74	0.41
5:E:341:PRO:O	5:E:342:ALA:C	2.64	0.41
5:E:412:ASN:O	5:E:413:LYS:CB	2.69	0.41
6:F:16:ASP:HA	6:F:19:LEU:HB2	2.02	0.41
6:F:16:ASP:O	6:F:20:LYS:N	2.46	0.41
6:F:151:LEU:O	6:F:171:THR:HG21	2.19	0.41
6:F:152:GLN:HG2	6:F:153:VAL:N	2.32	0.41
6:F:181:VAL:O	6:F:184:ALA:HB3	2.20	0.41
6:F:207:THR:O	6:F:208:THR:HG23	2.21	0.41
6:F:447:PHE:CE1	6:F:521:THR:HG22	2.56	0.41
8:H:38:LEU:HD23	8:H:38:LEU:HA	1.92	0.41
8:H:75:LEU:HD23	8:H:75:LEU:HA	1.93	0.41
8:H:146:VAL:HG22	8:H:148:GLY:H	1.86	0.41
8:H:163:ILE:HD11	8:H:404:GLY:CA	2.50	0.41
1:I:51:LYS:O	1:I:62:VAL:HA	2.20	0.41
1:I:118:ASN:O	1:I:119:LYS:CG	2.65	0.41
1:I:344:LEU:HD12	1:I:345:GLU:H	1.85	0.41
2:J:5:ILE:CD1	2:J:7:GLY:H	2.34	0.41
2:J:14:ARG:O	2:J:15:ALA:HB3	2.21	0.41
2:J:45:LEU:HD12	6:N:533:LEU:HB3	2.02	0.41
2:J:55:MET:HA	2:J:55:MET:HE3	2.03	0.41
2:J:81:SER:C	2:J:83:VAL:H	2.28	0.41
2:J:127:ALA:HB1	2:J:430:VAL:HG13	2.02	0.41
2:J:320:VAL:HG21	2:J:337:LEU:CA	2.51	0.41
2:J:326:VAL:O	2:J:327:SER:HB3	2.21	0.41
3:K:219:VAL:O	3:K:220:LEU:C	2.64	0.41
3:K:223:VAL:HG11	3:K:328:ILE:HG12	2.03	0.41
3:K:241:PRO:O	3:K:350:THR:HA	2.20	0.41
3:K:409:SER:C	3:K:411:SER:N	2.78	0.41
4:L:35:ILE:HG22	4:L:98:ILE:HD11	2.03	0.41
4:L:99:LEU:HA	4:L:449:VAL:HG11	2.02	0.41
4:L:159:SER:C	4:L:161:LYS:N	2.76	0.41
4:L:205:ASP:C	4:L:207:THR:H	2.28	0.41
4:L:454:LEU:CD1	9:L:601:ADP:H8	2.34	0.41
5:M:57:VAL:C	5:M:59:SER:H	2.29	0.41
5:M:158:ILE:CB	5:M:539:LEU:HD21	2.51	0.41
5:M:338:ASN:HB2	5:M:340:LEU:HD22	2.02	0.41
5:M:472:PHE:HZ	5:M:542:THR:HG22	1.86	0.41
6:N:75:LEU:HD23	6:N:76:ILE:N	2.36	0.41
6:N:105:ALA:O	6:N:108:PHE:CD2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:331:VAL:O	6:N:332:THR:CB	2.68	0.41
6:N:444:ILE:HG12	6:N:444:ILE:H	1.66	0.41
6:N:466:PRO:O	6:N:468:ASP:N	2.54	0.41
6:N:488:TYR:O	6:N:489:VAL:CG1	2.69	0.41
7:O:83:LEU:C	7:O:85:ASP:N	2.79	0.41
7:O:182:CYS:O	7:O:186:VAL:HG23	2.21	0.41
7:O:396:ALA:O	7:O:400:VAL:HG13	2.20	0.41
7:O:399:ILE:O	7:O:399:ILE:HD13	2.21	0.41
8:P:8:ASN:HA	8:P:9:PRO:HD3	1.90	0.41
8:P:48:PRO:CA	8:P:169:SER:O	2.68	0.41
8:P:253:PRO:HA	8:P:303:ALA:O	2.21	0.41
8:P:267:LEU:N	8:P:267:LEU:HD23	2.36	0.41
8:P:306:GLY:O	8:P:310:LEU:HB2	2.20	0.41
1:a:1048:GLY:C	1:a:1049:LEU:HD22	2.46	0.41
1:a:1077:HIS:HA	1:a:1078:PRO:HD3	1.91	0.41
1:a:1156:LEU:HD21	1:a:1409:VAL:HG13	2.02	0.41
2:b:1014:ARG:O	2:b:1015:ALA:HB3	2.21	0.41
2:b:1015:ALA:O	2:b:1019:ARG:HG2	2.21	0.41
2:b:1024:VAL:HA	2:b:1027:ILE:CG2	2.51	0.41
2:b:1145:ASP:C	2:b:1147:THR:N	2.78	0.41
2:b:1165:ILE:HG12	6:f:1529:LEU:CD1	2.45	0.41
2:b:1317:LEU:C	2:b:1319:LEU:N	2.79	0.41
2:b:1422:ILE:HG22	2:b:1424:GLY:CA	2.50	0.41
2:b:1441:PRO:O	2:b:1442:THR:C	2.64	0.41
2:b:1459:LEU:HD22	2:b:1472:LEU:CD1	2.51	0.41
2:b:1467:ILE:HA	2:b:1468:SER:HA	1.59	0.41
3:c:1219:VAL:O	3:c:1220:LEU:C	2.64	0.41
3:c:1238:ILE:O	3:c:1241:PRO:HG3	2.21	0.41
3:c:1321:LYS:O	3:c:1324:ASP:HB2	2.21	0.41
4:d:1079:VAL:C	4:d:1081:VAL:H	2.29	0.41
4:d:1157:SER:C	4:d:1159:SER:N	2.79	0.41
4:d:1242:SER:HA	4:d:1243:PRO:HD3	1.92	0.41
4:d:1411:ILE:O	4:d:1498:LEU:HB3	2.21	0.41
5:e:1116:GLY:HA3	5:e:1428:CYS:CB	2.50	0.41
5:e:1472:PHE:HZ	5:e:1542:THR:HG22	1.86	0.41
6:f:1053:ILE:O	6:f:1053:ILE:CG1	2.68	0.41
6:f:1212:GLY:HA2	6:f:1370:ASN:OD1	2.21	0.41
6:f:1213:LEU:CD2	6:f:1377:THR:HG23	2.46	0.41
6:f:1533:LEU:C	6:f:1534:LEU:HD23	2.46	0.41
7:g:1028:SER:HA	7:g:1031:ASN:OD1	2.21	0.41
7:g:1033:CYS:HA	7:g:1083:LEU:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:1182:CYS:O	7:g:1186:VAL:HG23	2.21	0.41
7:g:1452:GLN:O	7:g:1456:ASN:N	2.49	0.41
8:h:1253:PRO:HA	8:h:1303:ALA:O	2.21	0.41
8:h:1256:ILE:HD11	8:h:1308:LEU:HD13	2.02	0.41
8:h:1267:LEU:N	8:h:1267:LEU:HD23	2.36	0.41
8:h:1486:GLU:N	8:h:1487:PRO:HA	2.34	0.41
9:h:1601:ADP:PB	10:h:1602:BEF:F2	2.69	0.41
1:i:1256:MET:SD	7:o:1256:ASN:O	2.79	0.41
1:i:1350:PHE:O	1:i:1351:GLU:OE2	2.36	0.41
2:j:1038:GLY:HA3	2:j:1474:LEU:HD12	2.02	0.41
2:j:1242:LYS:HD2	2:j:1243:VAL:N	2.35	0.41
2:j:1402:LEU:CD2	2:j:1483:ARG:HG3	2.46	0.41
2:j:1422:ILE:HG22	2:j:1424:GLY:CA	2.50	0.41
2:j:1459:LEU:HD22	2:j:1472:LEU:CD1	2.51	0.41
2:j:1511:VAL:O	2:j:1513:ASN:N	2.49	0.41
3:k:1010:ALA:HA	3:k:1011:SER:HA	1.59	0.41
3:k:1103:ILE:CG2	3:k:1517:ALA:HB1	2.50	0.41
3:k:1250:LEU:O	3:k:1251:GLU:C	2.64	0.41
3:k:1415:GLY:HA3	3:k:1501:GLU:OE1	2.20	0.41
4:l:1041:PRO:HG2	9:l:1601:ADP:C6	2.56	0.41
4:l:1085:GLN:O	4:l:1089:ALA:HB3	2.21	0.41
4:l:1411:ILE:O	4:l:1498:LEU:HB3	2.21	0.41
5:m:1081:ILE:HD12	5:m:1081:ILE:N	2.35	0.41
5:m:1114:GLU:HB3	6:n:1201:HIS:CE1	2.56	0.41
5:m:1320:VAL:HG22	5:m:1341:PRO:CD	2.40	0.41
5:m:1412:ASN:O	5:m:1413:LYS:CB	2.69	0.41
6:n:1030:GLN:C	6:n:1032:VAL:N	2.79	0.41
6:n:1137:LYS:O	6:n:1138:ILE:CB	2.69	0.41
6:n:1147:ARG:O	6:n:1147:ARG:HG3	2.20	0.41
6:n:1207:THR:O	6:n:1208:THR:HG23	2.21	0.41
6:n:1515:ASN:C	6:n:1517:ILE:N	2.77	0.41
7:o:1083:LEU:HA	7:o:1086:ILE:CD1	2.50	0.41
7:o:1094:VAL:CG1	7:o:1095:GLY:N	2.83	0.41
7:o:1188:SER:O	7:o:1190:ASP:CG	2.64	0.41
7:o:1214:PHE:O	7:o:1214:PHE:CD2	2.74	0.41
7:o:1368:CYS:HA	7:o:1369:PRO:HD3	1.80	0.41
7:o:1450:PRO:O	7:o:1453:LEU:HB2	2.20	0.41
8:p:1163:ILE:HD11	8:p:1404:GLY:C	2.46	0.41
8:p:1256:ILE:HD11	8:p:1308:LEU:HD13	2.02	0.41
8:p:1459:VAL:O	8:p:1462:THR:HG22	2.20	0.41
8:p:1459:VAL:HB	8:p:1460:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:GLU:HA	1:A:400:ARG:HH11	1.86	0.41
2:B:245:ILE:O	2:B:246:PHE:HB3	2.19	0.41
3:C:78:MET:HA	3:C:78:MET:HE2	2.03	0.41
3:C:240:ASN:HA	3:C:352:CYS:O	2.21	0.41
4:D:123:SER:OG	4:D:440:TRP:HA	2.21	0.41
4:D:226:PRO:CD	4:D:311:MET:HG2	2.50	0.41
5:E:120:THR:O	5:E:124:VAL:HG23	2.20	0.41
5:E:451:SER:O	5:E:455:SER:HB2	2.20	0.41
6:F:23:VAL:O	6:F:25:SER:N	2.54	0.41
6:F:83:GLN:O	6:F:84:ASP:C	2.62	0.41
6:F:113:VAL:CB	6:F:118:ILE:HD11	2.47	0.41
6:F:331:VAL:O	6:F:332:THR:CB	2.68	0.41
7:G:43:THR:HG23	7:G:64:ASN:HB3	2.00	0.41
7:G:145:VAL:O	7:G:409:ILE:N	2.52	0.41
7:G:214:PHE:O	7:G:214:PHE:CD2	2.74	0.41
8:H:48:PRO:CA	8:H:169:SER:O	2.68	0.41
8:H:253:PRO:HA	8:H:303:ALA:O	2.21	0.41
8:H:294:MET:HE3	8:H:294:MET:HB3	1.98	0.41
8:H:386:LEU:HD12	8:H:386:LEU:N	2.36	0.41
8:H:414:PRO:HA	8:H:415:SER:HA	1.60	0.41
8:H:459:VAL:O	8:H:462:THR:HG22	2.20	0.41
1:I:48:GLY:C	1:I:49:LEU:HD22	2.46	0.41
1:I:94:ILE:HG22	1:I:95:GLY:N	2.36	0.41
1:I:191:ASN:HA	1:I:195:GLU:O	2.21	0.41
1:I:203:VAL:O	1:I:205:VAL:HG23	2.21	0.41
1:I:478:ARG:O	1:I:479:SER:C	2.62	0.41
2:J:81:SER:C	2:J:83:VAL:N	2.79	0.41
2:J:186:GLY:HA2	2:J:187:SER:HA	1.47	0.41
2:J:242:LYS:HB2	3:K:269:TRP:CZ2	2.45	0.41
2:J:317:LEU:C	2:J:319:LEU:N	2.79	0.41
2:J:459:LEU:HD22	2:J:472:LEU:CD1	2.51	0.41
3:K:129:LEU:HD13	3:K:130:THR:N	2.36	0.41
3:K:238:ILE:O	3:K:241:PRO:HG3	2.21	0.41
3:K:240:ASN:HA	3:K:352:CYS:O	2.21	0.41
4:L:44:MET:HE3	8:P:531:ALA:CB	2.49	0.41
4:L:154:ALA:C	4:L:156:THR:H	2.29	0.41
4:L:219:ALA:HB1	4:L:221:LYS:HZ3	1.85	0.41
4:L:369:ASN:C	4:L:371:ALA:N	2.78	0.41
5:M:355:ALA:HB2	5:M:362:ILE:CD1	2.51	0.41
6:N:105:ALA:O	6:N:107:ARG:N	2.54	0.41
6:N:178:VAL:HG11	6:N:402:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:N:539:SER:HB2	6:N:542:LYS:CG	2.51	0.41
7:O:83:LEU:HA	7:O:86:ILE:CD1	2.50	0.41
7:O:214:PHE:O	7:O:214:PHE:CD2	2.74	0.41
7:O:516:LEU:HD11	7:O:517:ILE:CG1	2.48	0.41
8:P:54:ILE:CG2	8:P:55:ILE:N	2.83	0.41
8:P:141:GLU:O	8:P:145:MET:HG2	2.21	0.41
8:P:146:VAL:HG22	8:P:148:GLY:N	2.36	0.41
1:a:1094:ILE:HG22	1:a:1095:GLY:N	2.36	0.41
1:a:1498:ARG:O	1:a:1499:ASN:HB3	2.20	0.41
1:a:1543:THR:O	5:e:1072:LYS:HB3	2.21	0.41
2:b:1047:GLN:HE22	2:b:1052:ASN:C	2.28	0.41
2:b:1201:GLY:O	2:b:1202:LYS:CB	2.69	0.41
2:b:1232:LEU:CD1	2:b:1234:ALA:HB2	2.50	0.41
2:b:1245:ILE:O	2:b:1246:PHE:HB3	2.19	0.41
2:b:1263:LYS:HZ1	3:c:1266:GLU:CG	2.33	0.41
2:b:1320:VAL:HG21	2:b:1337:LEU:CA	2.51	0.41
2:b:1511:VAL:O	2:b:1512:ASP:HB3	2.21	0.41
3:c:1108:ALA:N	3:c:1109:PRO:CD	2.81	0.41
3:c:1129:LEU:HD13	3:c:1130:THR:N	2.36	0.41
3:c:1250:LEU:O	3:c:1251:GLU:C	2.64	0.41
3:c:1320:VAL:HG12	3:c:1324:ASP:HB3	2.02	0.41
4:d:1072:HIS:CD2	8:h:1015:LYS:NZ	2.89	0.41
4:d:1086:ASP:HB2	4:d:1093:THR:HG22	2.03	0.41
4:d:1385:MET:HA	4:d:1388:ASP:OD2	2.21	0.41
5:e:1094:MET:HG2	5:e:1094:MET:H	1.71	0.41
5:e:1387:THR:HA	5:e:1388:THR:HA	1.61	0.41
6:f:1105:ALA:O	6:f:1107:ARG:N	2.54	0.41
6:f:1178:VAL:HG11	6:f:1402:VAL:HG12	2.03	0.41
7:g:1214:PHE:O	7:g:1214:PHE:CD2	2.74	0.41
8:h:1146:VAL:HG22	8:h:1148:GLY:N	2.36	0.41
1:i:1545:ILE:O	5:m:1074:LEU:HA	2.20	0.41
2:j:1015:ALA:O	2:j:1019:ARG:HG2	2.20	0.41
2:j:1057:THR:HB	2:j:1379:GLU:HG3	2.03	0.41
2:j:1140:VAL:HG23	2:j:1483:ARG:NH2	2.36	0.41
2:j:1201:GLY:O	2:j:1202:LYS:CB	2.69	0.41
2:j:1320:VAL:HG21	2:j:1337:LEU:CA	2.51	0.41
2:j:1331:GLU:HA	2:j:1332:PRO:HD3	1.79	0.41
2:j:1492:LYS:O	2:j:1495:ARG:HB3	2.20	0.41
3:k:1009:ASN:ND2	3:k:1010:ALA:H	2.11	0.41
3:k:1238:ILE:O	3:k:1241:PRO:HG3	2.21	0.41
3:k:1407:MET:SD	3:k:1407:MET:C	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:k:1409:SER:C	3:k:1411:SER:N	2.78	0.41
5:m:1107:LEU:HD12	5:m:1107:LEU:O	2.21	0.41
5:m:1125:LEU:C	5:m:1127:SER:N	2.78	0.41
6:n:1230:ASN:N	6:n:1353:LEU:HD23	2.35	0.41
7:o:1023:LYS:O	7:o:1026:ILE:HG22	2.20	0.41
7:o:1447:GLU:OE1	7:o:1465:LEU:HD21	2.22	0.41
8:p:1071:MET:HE2	8:p:1071:MET:HB3	1.95	0.41
8:p:1455:ALA:O	8:p:1458:VAL:HG23	2.21	0.41
8:p:1482:HIS:O	8:p:1483:ASN:C	2.58	0.41
1:A:431:ILE:CG2	1:A:432:TYR:N	2.84	0.40
3:C:407:MET:SD	3:C:407:MET:C	3.04	0.40
4:D:292:ILE:HG13	4:D:294:ARG:N	2.36	0.40
4:D:425:LEU:HD12	4:D:444:ALA:HA	2.03	0.40
6:F:6:LEU:HD13	6:F:7:ASN:H	1.85	0.40
6:F:105:ALA:O	6:F:108:PHE:CD2	2.74	0.40
6:F:113:VAL:O	6:F:114:HIS:C	2.64	0.40
6:F:320:ALA:O	6:F:321:LYS:C	2.63	0.40
7:G:33:CYS:HA	7:G:83:LEU:CD1	2.51	0.40
1:I:431:ILE:CG2	1:I:432:TYR:N	2.84	0.40
2:J:88:VAL:HG12	2:J:90:ASP:H	1.86	0.40
3:K:245:LEU:HA	3:K:296:ILE:O	2.21	0.40
3:K:407:MET:SD	3:K:407:MET:C	3.04	0.40
4:L:205:ASP:C	4:L:207:THR:N	2.77	0.40
4:L:411:ILE:O	4:L:498:LEU:HB3	2.21	0.40
4:L:425:LEU:HD12	4:L:444:ALA:HA	2.03	0.40
5:M:71:ASP:OD2	5:M:85:ASN:HB2	2.21	0.40
5:M:250:SER:O	5:M:251:HIS:O	2.38	0.40
6:N:68:ILE:HD13	6:N:74:VAL:HG13	2.02	0.40
6:N:430:ASN:C	6:N:432:ASN:N	2.78	0.40
7:O:28:SER:HA	7:O:31:ASN:OD1	2.21	0.40
8:P:122:LEU:HD23	8:P:126:GLU:OE1	2.21	0.40
8:P:146:VAL:HG22	8:P:147:VAL:N	2.35	0.40
8:P:186:VAL:HA	8:P:207:ILE:HD11	2.02	0.40
8:P:459:VAL:HB	8:P:460:PRO:HD3	2.02	0.40
1:a:1191:ASN:HA	1:a:1195:GLU:O	2.21	0.40
2:b:1076:VAL:O	2:b:1079:ASN:HB2	2.20	0.40
2:b:1088:VAL:HG11	2:b:1493:LEU:HB2	2.03	0.40
6:f:1459:VAL:O	6:f:1463:GLY:N	2.55	0.40
6:f:1539:SER:HB2	6:f:1542:LYS:CG	2.51	0.40
8:h:1209:VAL:CG2	8:h:1386:LEU:HD11	2.35	0.40
8:h:1335:VAL:HG13	8:h:1379:SER:CB	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:h:1455:ALA:O	8:h:1458:VAL:HG23	2.21	0.40
1:i:1012:THR:HA	1:i:1013:LEU:HA	1.68	0.40
1:i:1048:GLY:C	1:i:1049:LEU:HD22	2.46	0.40
2:j:1004:GLN:HB3	2:j:1005:ILE:HG12	2.02	0.40
2:j:1055:MET:HE3	2:j:1055:MET:HA	2.03	0.40
3:k:1078:MET:HE2	3:k:1078:MET:HA	2.03	0.40
4:l:1079:VAL:C	4:l:1081:VAL:H	2.29	0.40
4:l:1183:ASP:O	4:l:1187:LYS:HA	2.21	0.40
4:l:1385:MET:HA	4:l:1388:ASP:OD2	2.21	0.40
5:m:1492:ILE:H	5:m:1492:ILE:CD1	2.23	0.40
6:n:1105:ALA:O	6:n:1108:PHE:CD2	2.74	0.40
6:n:1218:GLY:O	6:n:1317:LEU:HA	2.22	0.40
6:n:1527:LEU:HA	6:n:1527:LEU:HD23	1.71	0.40
7:o:1129:TYR:O	7:o:1132:ALA:HB3	2.21	0.40
7:o:1399:ILE:HD13	7:o:1399:ILE:O	2.21	0.40
8:p:1005:LEU:HA	8:p:1006:PRO:HD3	1.87	0.40
1:A:48:GLY:C	1:A:49:LEU:HD22	2.46	0.40
1:A:115:LEU:HA	1:A:115:LEU:HD23	1.80	0.40
1:A:133:LEU:C	1:A:133:LEU:HD13	2.45	0.40
1:A:191:ASN:HA	1:A:195:GLU:O	2.21	0.40
1:A:198:TYR:CE2	1:A:413:LEU:CB	3.05	0.40
1:A:267:PRO:CB	1:A:268:GLU:C	2.95	0.40
2:B:145:ASP:C	2:B:147:THR:N	2.79	0.40
2:B:317:LEU:O	2:B:321:THR:N	2.50	0.40
5:E:115:ILE:CB	5:E:432:ASN:HD21	2.35	0.40
5:E:332:ASN:HA	5:E:335:LEU:HD12	2.02	0.40
5:E:355:ALA:HB2	5:E:362:ILE:CD1	2.51	0.40
6:F:56:THR:HB	6:F:390:GLN:HE22	1.79	0.40
6:F:75:LEU:HD23	6:F:76:ILE:N	2.36	0.40
6:F:158:LEU:O	6:F:158:LEU:CG	2.69	0.40
6:F:414:GLY:C	6:F:506:ILE:HG22	2.46	0.40
6:F:459:VAL:O	6:F:463:GLY:N	2.54	0.40
7:G:94:VAL:CG1	7:G:95:GLY:H	2.28	0.40
7:G:129:TYR:O	7:G:132:ALA:HB3	2.21	0.40
1:I:397:GLU:HA	1:I:400:ARG:HH11	1.86	0.40
2:J:15:ALA:O	2:J:19:ARG:HG2	2.21	0.40
2:J:140:VAL:HG23	2:J:483:ARG:NH2	2.36	0.40
2:J:372:ALA:HA	6:N:519:GLY:HA2	2.02	0.40
4:L:123:SER:OG	4:L:440:TRP:HA	2.21	0.40
4:L:292:ILE:HG13	4:L:294:ARG:N	2.36	0.40
4:L:454:LEU:HD13	9:L:601:ADP:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:M:338:ASN:HD22	5:M:338:ASN:N	2.16	0.40
6:N:158:LEU:O	6:N:158:LEU:CG	2.69	0.40
6:N:411:ILE:CG2	6:N:412:ILE:N	2.75	0.40
1:a:1209:HIS:CE1	7:g:1089:ALA:HB2	2.54	0.40
1:a:1431:ILE:CG2	1:a:1432:TYR:N	2.84	0.40
1:a:1456:LEU:O	1:a:1459:PRO:HD2	2.21	0.40
2:b:1140:VAL:HG23	2:b:1483:ARG:NH2	2.36	0.40
2:b:1239:ASP:CG	2:b:1290:ILE:HB	2.46	0.40
2:b:1246:PHE:CD1	2:b:1247:GLY:N	2.89	0.40
4:d:1154:ALA:C	4:d:1156:THR:H	2.29	0.40
4:d:1217:GLN:CD	4:d:1316:ILE:HA	2.47	0.40
5:e:1071:ASP:OD2	5:e:1085:ASN:HB2	2.21	0.40
5:e:1073:ILE:HG12	5:e:1083:ILE:CG1	2.44	0.40
5:e:1120:THR:O	5:e:1124:VAL:HG23	2.20	0.40
5:e:1428:CYS:HA	5:e:1431:ARG:CG	2.52	0.40
6:f:1037:LEU:HB2	9:f:1601:ADP:H5'1	2.02	0.40
6:f:1218:GLY:O	6:f:1317:LEU:HA	2.22	0.40
6:f:1370:ASN:HD22	6:f:1370:ASN:C	2.29	0.40
6:f:1411:ILE:O	6:f:1412:ILE:HB	2.22	0.40
7:g:1129:TYR:O	7:g:1132:ALA:HB3	2.21	0.40
1:i:1250:ASN:HD21	1:i:1252:GLN:HG2	1.85	0.40
1:i:1419:VAL:HA	1:i:1420:PRO:HD3	1.86	0.40
1:i:1456:LEU:O	1:i:1459:PRO:HD2	2.21	0.40
2:j:1005:ILE:CG1	2:j:1006:PHE:N	2.81	0.40
2:j:1081:SER:C	2:j:1083:VAL:N	2.79	0.40
3:k:1040:GLY:N	9:k:2101:ADP:O5'	2.54	0.40
4:l:1292:ILE:HG13	4:l:1294:ARG:N	2.36	0.40
5:m:1269:LEU:HD22	5:m:1269:LEU:H	1.85	0.40
6:n:1105:ALA:O	6:n:1107:ARG:N	2.54	0.40
6:n:1196:ILE:HG22	6:n:1378:ILE:HG23	2.02	0.40
6:n:1246:GLU:CD	6:n:1246:GLU:N	2.79	0.40
6:n:1454:ILE:O	6:n:1457:THR:OG1	2.30	0.40
6:n:1519:GLY:O	6:n:1520:ALA:C	2.64	0.40
8:p:1049:CYS:O	8:p:1466:THR:CG2	2.69	0.40
1:A:224:LEU:HD13	1:A:224:LEU:C	2.46	0.40
1:A:555:ASP:HA	1:A:556:PRO:HD3	1.90	0.40
2:B:164:LYS:O	2:B:166:LEU:HD23	2.22	0.40
2:B:239:ASP:CG	2:B:290:ILE:HB	2.46	0.40
2:B:474:LEU:N	2:B:474:LEU:HD23	2.35	0.40
3:C:56:VAL:CA	3:C:57:LEU:HD23	2.50	0.40
4:D:47:MET:O	8:H:534:ALA:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:120:ILE:CG1	4:D:439:ILE:HG21	2.43	0.40
4:D:135:LEU:HD22	4:D:135:LEU:HA	1.87	0.40
4:D:154:ALA:C	4:D:156:THR:H	2.29	0.40
5:E:86:ASP:O	5:E:90:ILE:HG13	2.20	0.40
5:E:88:ALA:CB	5:E:109:LYS:HZ1	2.32	0.40
5:E:261:LYS:O	5:E:341:PRO:HG3	2.21	0.40
5:E:557:SER:CB	6:F:66:MET:HA	2.52	0.40
6:F:196:ILE:HG22	6:F:378:ILE:HG23	2.02	0.40
6:F:198:GLN:HE21	6:F:198:GLN:H	1.66	0.40
6:F:246:GLU:CD	6:F:246:GLU:N	2.80	0.40
6:F:533:LEU:C	6:F:534:LEU:HD23	2.46	0.40
7:G:188:SER:O	7:G:190:ASP:CG	2.64	0.40
7:G:436:GLN:C	7:G:438:ILE:H	2.28	0.40
8:H:7:GLN:HE22	7:O:58:GLN:C	2.29	0.40
8:H:49:CYS:O	8:H:466:THR:CG2	2.69	0.40
8:H:141:GLU:O	8:H:145:MET:HG2	2.21	0.40
8:H:209:VAL:CG2	8:H:386:LEU:HD11	2.36	0.40
1:I:156:LEU:HD21	1:I:409:VAL:HG13	2.02	0.40
1:I:198:TYR:CE2	1:I:413:LEU:CB	3.05	0.40
2:J:24:VAL:HA	2:J:27:ILE:CG2	2.51	0.40
2:J:61:ALA:HB2	2:J:85:ASP:HB2	2.02	0.40
2:J:181:ILE:HG21	2:J:391:LEU:O	2.21	0.40
3:K:250:LEU:O	3:K:251:GLU:C	2.64	0.40
3:K:467:LEU:HD23	3:K:467:LEU:C	2.47	0.40
4:L:65:LEU:HB3	4:L:79:VAL:HG13	2.04	0.40
4:L:72:HIS:HA	4:L:73:PRO:HD3	1.96	0.40
5:M:162:GLU:OE2	5:M:162:GLU:N	2.55	0.40
5:M:261:LYS:O	5:M:341:PRO:HG3	2.21	0.40
5:M:276:PHE:HZ	5:M:310:ILE:HG12	1.86	0.40
5:M:387:THR:HA	5:M:388:THR:HA	1.61	0.40
6:N:370:ASN:N	6:N:370:ASN:ND2	2.70	0.40
6:N:515:ASN:C	6:N:517:ILE:N	2.77	0.40
8:P:75:LEU:HD23	8:P:75:LEU:HA	1.94	0.40
8:P:146:VAL:HG22	8:P:148:GLY:H	1.86	0.40
1:a:1397:GLU:HA	1:a:1400:ARG:HH11	1.86	0.40
2:b:1181:ILE:HG21	2:b:1391:LEU:O	2.21	0.40
2:b:1242:LYS:HD2	2:b:1243:VAL:N	2.35	0.40
3:c:1229:VAL:CG1	3:c:1230:VAL:N	2.84	0.40
3:c:1269:TRP:C	3:c:1269:TRP:CD1	2.99	0.40
3:c:1332:THR:HB	3:c:1349:GLY:CA	2.49	0.40
5:e:1033:LYS:O	5:e:1033:LYS:HG2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:1162:GLU:OE2	5:e:1162:GLU:N	2.55	0.40
6:f:1330:LEU:HD13	6:f:1374:LYS:O	2.22	0.40
7:g:1195:ASP:C	7:g:1197:LYS:H	2.29	0.40
7:g:1282:LEU:HD22	7:g:1307:PHE:N	2.37	0.40
7:g:1399:ILE:O	7:g:1399:ILE:HD13	2.21	0.40
8:h:1141:GLU:O	8:h:1145:MET:HG2	2.21	0.40
8:h:1208:ARG:O	8:h:1383:THR:HA	2.22	0.40
1:i:1198:TYR:CE2	1:i:1413:LEU:CB	3.05	0.40
1:i:1224:LEU:CD1	1:i:1226:CYS:CB	2.90	0.40
1:i:1339:SER:HB2	5:m:1333:HIS:ND1	2.37	0.40
2:j:1164:LYS:O	2:j:1166:LEU:HD23	2.22	0.40
2:j:1354:LEU:HD13	2:j:1356:PHE:CE2	2.56	0.40
3:k:1006:VAL:HA	8:p:1079:HIS:HD2	1.87	0.40
3:k:1114:LYS:CA	3:k:1115:ASN:CB	2.94	0.40
3:k:1229:VAL:CG1	3:k:1230:VAL:N	2.84	0.40
3:k:1516:SER:C	3:k:1518:CYS:N	2.78	0.40
4:l:1116:HIS:HA	4:l:1117:PRO:HD3	1.99	0.40
4:l:1154:ALA:C	4:l:1156:THR:H	2.29	0.40
4:l:1491:ASN:HB2	4:l:1494:GLU:CD	2.45	0.40
5:m:1071:ASP:OD2	5:m:1085:ASN:HB2	2.21	0.40
5:m:1162:GLU:OE2	5:m:1162:GLU:N	2.55	0.40
6:n:1006:LEU:HD12	6:n:1007:ASN:H	1.85	0.40
6:n:1411:ILE:O	6:n:1412:ILE:HB	2.22	0.40
6:n:1459:VAL:O	6:n:1463:GLY:N	2.54	0.40
8:p:1048:PRO:CA	8:p:1169:SER:O	2.68	0.40
8:p:1146:VAL:HG22	8:p:1148:GLY:N	2.36	0.40
8:p:1300:VAL:HG11	8:p:1332:LEU:CD2	2.49	0.40
1:A:120:ILE:CG2	1:A:121:HIS:N	2.81	0.40
2:B:14:ARG:O	2:B:15:ALA:HB3	2.21	0.40
2:B:81:SER:C	2:B:83:VAL:H	2.28	0.40
2:B:88:VAL:HG11	2:B:493:LEU:HB2	2.04	0.40
2:B:140:VAL:HG23	2:B:483:ARG:NH2	2.36	0.40
2:B:196:ILE:HD12	2:B:196:ILE:N	2.36	0.40
2:B:295:GLU:CB	6:F:337:GLN:NE2	2.79	0.40
2:B:354:LEU:HD13	2:B:356:PHE:CE2	2.56	0.40
3:C:41:PRO:HD3	9:C:1101:ADP:N3	2.36	0.40
3:C:245:LEU:HA	3:C:296:ILE:O	2.21	0.40
3:C:444:ALA:C	3:C:446:ALA:N	2.79	0.40
3:C:467:LEU:C	3:C:467:LEU:HD23	2.47	0.40
4:D:167:SER:C	4:D:169:PHE:H	2.29	0.40
5:E:57:VAL:C	5:E:59:SER:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:107:LEU:O	5:E:107:LEU:HD12	2.21	0.40
5:E:245:LEU:CD1	5:E:247:LYS:H	2.25	0.40
5:E:276:PHE:HZ	5:E:310:ILE:HG12	1.86	0.40
5:E:297:LYS:HB3	6:F:256:ALA:CB	2.52	0.40
5:E:428:CYS:HA	5:E:431:ARG:CG	2.52	0.40
6:F:118:ILE:HG22	6:F:122:PHE:CD2	2.57	0.40
7:G:413:GLY:HA2	9:G:601:ADP:C2	2.57	0.40
8:H:5:LEU:HA	8:H:6:PRO:HD3	1.87	0.40
8:H:111:LEU:HD21	8:H:524:LYS:HA	2.04	0.40
8:H:122:LEU:HD23	8:H:126:GLU:OE1	2.22	0.40
2:J:201:GLY:O	2:J:202:LYS:CB	2.69	0.40
2:J:360:LYS:HA	2:J:361:ALA:HA	1.70	0.40
4:L:86:ASP:HB2	4:L:93:THR:HG22	2.03	0.40
4:L:292:ILE:CG1	4:L:293:LEU:HA	2.47	0.40
5:M:412:ASN:O	5:M:413:LYS:CB	2.69	0.40
6:N:16:ASP:HA	6:N:19:LEU:HB2	2.02	0.40
6:N:30:GLN:C	6:N:32:VAL:N	2.79	0.40
6:N:414:GLY:C	6:N:506:ILE:HG22	2.46	0.40
7:O:129:TYR:O	7:O:132:ALA:HB3	2.21	0.40
7:O:449:ILE:CB	7:O:450:PRO:HD3	2.50	0.40
7:O:478:TRP:O	7:O:479:TYR:CB	2.69	0.40
8:P:414:PRO:HA	8:P:415:SER:HA	1.60	0.40
1:a:1115:LEU:CD1	1:a:1125:ILE:HD11	2.51	0.40
1:a:1203:VAL:O	1:a:1205:VAL:HG23	2.21	0.40
2:b:1127:ALA:HB1	2:b:1430:VAL:HG13	2.02	0.40
2:b:1196:ILE:HD12	2:b:1196:ILE:N	2.36	0.40
2:b:1320:VAL:HB	2:b:1338:GLY:H	1.87	0.40
3:c:1527:VAL:HG11	8:h:1075:LEU:HD21	2.03	0.40
5:e:1081:ILE:HD12	5:e:1081:ILE:N	2.35	0.40
5:e:1281:PRO:C	5:e:1283:THR:H	2.28	0.40
5:e:1341:PRO:O	5:e:1342:ALA:C	2.64	0.40
5:e:1421:ARG:C	5:e:1423:LEU:H	2.30	0.40
6:f:1030:GLN:C	6:f:1032:VAL:N	2.79	0.40
6:f:1066:MET:HE3	6:f:1067:GLN:N	2.36	0.40
6:f:1246:GLU:CD	6:f:1246:GLU:N	2.80	0.40
6:f:1519:GLY:O	6:f:1520:ALA:C	2.64	0.40
7:g:1083:LEU:C	7:g:1085:ASP:N	2.79	0.40
7:g:1188:SER:O	7:g:1190:ASP:CG	2.64	0.40
8:h:1386:LEU:HD12	8:h:1386:LEU:N	2.36	0.40
1:i:1051:LYS:O	1:i:1062:VAL:HA	2.20	0.40
1:i:1094:ILE:HG22	1:i:1095:GLY:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:1246:PHE:CD1	2:j:1247:GLY:N	2.89	0.40
2:j:1495:ARG:O	2:j:1496:ALA:C	2.64	0.40
3:k:1250:LEU:HG	3:k:1301:VAL:HB	2.02	0.40
4:l:1217:GLN:CD	4:l:1316:ILE:HA	2.47	0.40
5:m:1255:PRO:HG3	5:m:1336:LEU:CA	2.52	0.40
6:n:1178:VAL:HG11	6:n:1402:VAL:HG12	2.03	0.40
6:n:1370:ASN:HD22	6:n:1370:ASN:C	2.29	0.40
6:n:1524:ALA:O	6:n:1528:LEU:HG	2.21	0.40
8:p:1024:ALA:HB2	8:p:1531:ALA:O	2.20	0.40
8:p:1077:ILE:H	8:p:1077:ILE:CD1	2.26	0.40
8:p:1243:LYS:HD3	8:p:1243:LYS:HA	1.87	0.40
1:A:307:LEU:O	1:A:311:VAL:N	2.53	0.40
2:B:201:GLY:O	2:B:202:LYS:CB	2.69	0.40
2:B:354:LEU:HD13	2:B:356:PHE:HE2	1.87	0.40
3:C:112:ILE:C	3:C:114:LYS:N	2.74	0.40
3:C:210:PRO:HB2	3:C:211:GLY:H	1.63	0.40
3:C:413:SER:HA	3:C:414:PRO:HD3	1.90	0.40
4:D:94:THR:C	4:D:96:VAL:N	2.79	0.40
5:E:237:SER:HB3	5:E:408:VAL:HA	2.04	0.40
5:E:472:PHE:HZ	5:E:542:THR:HG22	1.86	0.40
6:F:30:GLN:C	6:F:32:VAL:N	2.79	0.40
6:F:331:VAL:HG23	6:F:375:SER:OG	2.21	0.40
7:G:204:ILE:HA	7:G:205:PRO:HD3	1.79	0.40
8:H:208:ARG:O	8:H:383:THR:HA	2.22	0.40
1:I:303:ASP:OD1	1:I:304:ASP:N	2.55	0.40
2:J:164:LYS:O	2:J:166:LEU:HD23	2.22	0.40
2:J:239:ASP:CG	2:J:290:ILE:HB	2.46	0.40
2:J:320:VAL:HB	2:J:338:GLY:H	1.87	0.40
2:J:402:LEU:CD2	2:J:483:ARG:HG3	2.46	0.40
2:J:495:ARG:O	2:J:496:ALA:C	2.64	0.40
3:K:34:VAL:HG12	3:K:35:ILE:N	2.35	0.40
3:K:489:GLY:O	3:K:490:LYS:C	2.64	0.40
4:L:20:VAL:HG21	4:L:522:ASP:O	2.22	0.40
4:L:65:LEU:HA	4:L:65:LEU:HD23	1.83	0.40
4:L:116:HIS:HA	4:L:117:PRO:HD3	1.99	0.40
4:L:443:PHE:CD2	4:L:443:PHE:C	3.00	0.40
6:N:331:VAL:HG23	6:N:375:SER:OG	2.21	0.40
7:O:94:VAL:CG1	7:O:95:GLY:N	2.83	0.40
8:P:71:MET:HE2	8:P:71:MET:HB3	1.95	0.40
1:a:1344:LEU:HD12	1:a:1345:GLU:H	1.85	0.40
2:b:1057:THR:HB	2:b:1379:GLU:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:1220:ASN:CG	2:b:1221:ASN:H	2.30	0.40
2:b:1347:MET:HE2	2:b:1369:LEU:HD21	2.03	0.40
2:b:1387:ALA:O	2:b:1388:LEU:C	2.65	0.40
2:b:1424:GLY:O	2:b:1427:SER:N	2.55	0.40
5:e:1055:ARG:HG3	5:e:1131:ASP:CG	2.45	0.40
5:e:1107:LEU:HD12	5:e:1107:LEU:O	2.21	0.40
5:e:1319:ASP:O	5:e:1340:LEU:HA	2.22	0.40
6:f:1151:LEU:HD22	6:f:1175:THR:HG23	2.04	0.40
6:f:1466:PRO:O	6:f:1468:ASP:N	2.54	0.40
6:f:1515:ASN:C	6:f:1517:ILE:N	2.77	0.40
8:h:1122:LEU:HD23	8:h:1126:GLU:OE1	2.21	0.40
8:h:1163:ILE:HD11	8:h:1404:GLY:C	2.46	0.40
8:h:1186:VAL:HA	8:h:1207:ILE:HD11	2.02	0.40
8:h:1459:VAL:HB	8:h:1460:PRO:HD3	2.02	0.40
2:j:1424:GLY:H	2:j:1427:SER:HB3	1.85	0.40
3:k:1129:LEU:HD13	3:k:1130:THR:N	2.36	0.40
3:k:1223:VAL:HG11	3:k:1328:ILE:HG12	2.03	0.40
3:k:1230:VAL:O	3:k:1231:HIS:CG	2.74	0.40
3:k:1456:LEU:HA	3:k:1456:LEU:HD22	1.79	0.40
4:l:1065:LEU:HA	4:l:1065:LEU:HD23	1.84	0.40
4:l:1443:PHE:CD2	4:l:1443:PHE:C	3.00	0.40
5:m:1319:ASP:O	5:m:1340:LEU:HA	2.22	0.40
6:n:1075:LEU:HD23	6:n:1076:ILE:N	2.36	0.40
6:n:1133:LEU:HD12	6:n:1422:LEU:HD11	2.02	0.40
6:n:1330:LEU:HD13	6:n:1374:LYS:O	2.21	0.40
6:n:1331:VAL:HG23	6:n:1375:SER:OG	2.21	0.40
6:n:1414:GLY:C	6:n:1506:ILE:HG22	2.46	0.40
8:p:1122:LEU:HD23	8:p:1126:GLU:OE1	2.21	0.40
8:p:1141:GLU:O	8:p:1145:MET:HG2	2.21	0.40
8:p:1167:ILE:HD12	8:p:1179:SER:HB3	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
1	I	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
1	a	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
1	i	538/559 (96%)	441 (82%)	78 (14%)	19 (4%)	3	23
2	B	509/527 (97%)	417 (82%)	67 (13%)	25 (5%)	1	17
2	J	509/527 (97%)	417 (82%)	67 (13%)	25 (5%)	1	17
2	b	509/527 (97%)	417 (82%)	68 (13%)	24 (5%)	2	18
2	j	509/527 (97%)	417 (82%)	67 (13%)	25 (5%)	1	17
3	C	508/590 (86%)	420 (83%)	68 (13%)	20 (4%)	2	20
3	K	508/590 (86%)	421 (83%)	67 (13%)	20 (4%)	2	20
3	c	508/590 (86%)	419 (82%)	70 (14%)	19 (4%)	2	21
3	k	508/590 (86%)	420 (83%)	68 (13%)	20 (4%)	2	20
4	D	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
4	L	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
4	d	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
4	l	520/528 (98%)	429 (82%)	79 (15%)	12 (2%)	5	30
5	E	521/562 (93%)	443 (85%)	59 (11%)	19 (4%)	2	22
5	M	521/562 (93%)	443 (85%)	59 (11%)	19 (4%)	2	22
5	e	521/562 (93%)	442 (85%)	60 (12%)	19 (4%)	2	22
5	m	521/562 (93%)	443 (85%)	59 (11%)	19 (4%)	2	22
6	F	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
6	N	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
6	f	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
6	n	529/546 (97%)	429 (81%)	82 (16%)	18 (3%)	3	23
7	G	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
7	O	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
7	g	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
7	o	505/550 (92%)	424 (84%)	60 (12%)	21 (4%)	2	19
8	H	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18
8	P	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	h	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18
8	p	521/568 (92%)	439 (84%)	58 (11%)	24 (5%)	2	18
All	All	16604/17720 (94%)	13767 (83%)	2207 (13%)	630 (4%)	2	21

All (630) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	5	ILE
2	B	165	ILE
2	B	184	LEU
2	B	185	LYS
2	B	307	GLU
2	B	370	ARG
2	B	470	SER
3	C	16	THR
3	C	210	PRO
3	C	252	TYR
3	C	303	ASP
4	D	205	ASP
4	D	427	LYS
5	E	167	ASP
5	E	351	LEU
5	E	369	LEU
6	F	160	THR
6	F	353	LEU
6	F	460	LYS
6	F	489	VAL
6	F	490	GLY
7	G	46	PRO
7	G	190	ASP
7	G	213	LEU
7	G	487	ASN
7	G	495	PHE
8	H	147	VAL
8	H	483	ASN
8	H	490	VAL
2	J	5	ILE
2	J	165	ILE
2	J	184	LEU
2	J	185	LYS
2	J	307	GLU

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Mol	Chain	Res	Type
2	J	370	ARG
2	J	470	SER
3	K	16	THR
3	K	210	PRO
3	K	252	TYR
3	K	303	ASP
4	L	205	ASP
4	L	427	LYS
5	M	167	ASP
5	M	351	LEU
5	M	369	LEU
6	N	160	THR
6	N	353	LEU
6	N	460	LYS
6	N	489	VAL
6	N	490	GLY
7	O	46	PRO
7	O	190	ASP
7	O	213	LEU
7	O	487	ASN
7	O	495	PHE
8	P	147	VAL
8	P	483	ASN
8	P	490	VAL
2	b	1005	ILE
2	b	1165	ILE
2	b	1184	LEU
2	b	1185	LYS
2	b	1307	GLU
2	b	1370	ARG
2	b	1470	SER
3	c	1016	THR
3	c	1210	PRO
3	c	1252	TYR
3	c	1303	ASP
4	d	1205	ASP
4	d	1427	LYS
5	e	1167	ASP
5	e	1351	LEU
5	e	1369	LEU
6	f	1160	THR
6	f	1353	LEU

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Mol	Chain	Res	Type
6	f	1460	LYS
6	f	1489	VAL
6	f	1490	GLY
7	g	1046	PRO
7	g	1190	ASP
7	g	1213	LEU
7	g	1487	ASN
7	g	1495	PHE
8	h	1006	PRO
8	h	1147	VAL
8	h	1483	ASN
8	h	1490	VAL
2	j	1005	ILE
2	j	1165	ILE
2	j	1184	LEU
2	j	1185	LYS
2	j	1307	GLU
2	j	1370	ARG
2	j	1470	SER
3	k	1016	THR
3	k	1210	PRO
3	k	1252	TYR
3	k	1303	ASP
4	l	1205	ASP
4	l	1427	LYS
5	m	1167	ASP
5	m	1351	LEU
5	m	1369	LEU
6	n	1160	THR
6	n	1353	LEU
6	n	1460	LYS
6	n	1489	VAL
6	n	1490	GLY
7	o	1046	PRO
7	o	1190	ASP
7	o	1213	LEU
7	o	1487	ASN
7	o	1495	PHE
8	p	1147	VAL
8	p	1483	ASN
8	p	1490	VAL
1	A	11	ASP

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Mol	Chain	Res	Type
1	A	56	ASP
1	A	94	ILE
1	A	265	ASP
1	A	508	LYS
2	B	35	SER
2	B	50	SER
2	B	142	ASN
2	B	220	ASN
2	B	323	GLY
2	B	371	GLY
3	C	19	GLN
3	C	36	ARG
3	C	144	ASP
3	C	258	GLN
3	C	321	LYS
3	C	454	ARG
4	D	188	ASN
4	D	485	ARG
5	E	251	HIS
5	E	347	GLY
5	E	402	LYS
5	E	438	ARG
6	F	138	ILE
6	F	298	GLN
6	F	333	GLY
6	F	467	LEU
6	F	486	THR
7	G	45	GLY
7	G	224	PHE
7	G	256	ASN
7	G	478	TRP
7	G	502	VAL
1	I	11	ASP
1	I	56	ASP
1	I	94	ILE
1	I	265	ASP
1	I	508	LYS
2	J	35	SER
2	J	50	SER
2	J	142	ASN
2	J	220	ASN
2	J	323	GLY

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Mol	Chain	Res	Type
2	J	371	GLY
3	K	19	GLN
3	K	36	ARG
3	K	144	ASP
3	K	258	GLN
3	K	321	LYS
3	K	454	ARG
4	L	188	ASN
4	L	485	ARG
5	M	251	HIS
5	M	347	GLY
5	M	402	LYS
5	M	438	ARG
6	N	138	ILE
6	N	298	GLN
6	N	333	GLY
6	N	467	LEU
6	N	486	THR
7	O	45	GLY
7	O	224	PHE
7	O	256	ASN
7	O	478	TRP
7	O	502	VAL
1	a	1011	ASP
1	a	1056	ASP
1	a	1094	ILE
1	a	1265	ASP
1	a	1508	LYS
2	b	1035	SER
2	b	1050	SER
2	b	1142	ASN
2	b	1220	ASN
2	b	1323	GLY
2	b	1371	GLY
3	c	1019	GLN
3	c	1036	ARG
3	c	1144	ASP
3	c	1258	GLN
3	c	1321	LYS
3	c	1454	ARG
4	d	1188	ASN
4	d	1485	ARG

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Mol	Chain	Res	Type
5	e	1251	HIS
5	e	1347	GLY
5	e	1402	LYS
5	e	1438	ARG
6	f	1138	ILE
6	f	1298	GLN
6	f	1333	GLY
6	f	1467	LEU
6	f	1486	THR
7	g	1045	GLY
7	g	1224	PHE
7	g	1256	ASN
7	g	1478	TRP
7	g	1502	VAL
1	i	1011	ASP
1	i	1056	ASP
1	i	1094	ILE
1	i	1265	ASP
1	i	1508	LYS
2	j	1035	SER
2	j	1050	SER
2	j	1142	ASN
2	j	1220	ASN
2	j	1323	GLY
2	j	1371	GLY
3	k	1019	GLN
3	k	1036	ARG
3	k	1144	ASP
3	k	1258	GLN
3	k	1321	LYS
3	k	1454	ARG
4	l	1188	ASN
4	l	1485	ARG
5	m	1251	HIS
5	m	1347	GLY
5	m	1402	LYS
5	m	1438	ARG
6	n	1138	ILE
6	n	1298	GLN
6	n	1333	GLY
6	n	1467	LEU
6	n	1486	THR

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Mol	Chain	Res	Type
7	o	1045	GLY
7	o	1224	PHE
7	o	1256	ASN
7	o	1478	TRP
7	o	1502	VAL
1	A	335	ALA
1	A	337	LEU
2	B	15	ALA
2	B	301	LEU
2	B	467	ILE
2	B	478	THR
3	C	52	MET
3	C	256	GLU
3	C	460	ALA
3	C	490	LYS
4	D	17	PRO
4	D	143	SER
4	D	474	GLU
5	E	36	GLY
5	E	190	SER
6	F	204	PRO
7	G	63	SER
7	G	250	LEU
7	G	362	TYR
8	H	6	PRO
8	H	13	LEU
8	H	48	PRO
8	H	146	VAL
8	H	150	ILE
8	H	178	LEU
8	H	343	ARG
8	H	378	ILE
8	H	458	VAL
8	H	460	PRO
8	H	486	GLU
1	I	335	ALA
1	I	337	LEU
2	J	15	ALA
2	J	301	LEU
2	J	467	ILE
2	J	478	THR
3	K	52	MET

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Mol	Chain	Res	Type
3	K	256	GLU
3	K	460	ALA
3	K	490	LYS
4	L	17	PRO
4	L	143	SER
4	L	474	GLU
5	M	36	GLY
5	M	190	SER
6	N	204	PRO
7	O	63	SER
7	O	250	LEU
7	O	362	TYR
8	P	6	PRO
8	P	13	LEU
8	P	48	PRO
8	P	146	VAL
8	P	150	ILE
8	P	178	LEU
8	P	343	ARG
8	P	378	ILE
8	P	458	VAL
8	P	460	PRO
8	P	486	GLU
1	a	1335	ALA
1	a	1337	LEU
2	b	1015	ALA
2	b	1301	LEU
2	b	1467	ILE
2	b	1478	THR
3	c	1052	MET
3	c	1256	GLU
3	c	1460	ALA
3	c	1490	LYS
4	d	1017	PRO
4	d	1143	SER
4	d	1474	GLU
5	e	1036	GLY
5	e	1190	SER
6	f	1204	PRO
7	g	1063	SER
7	g	1250	LEU
7	g	1362	TYR

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Mol	Chain	Res	Type
8	h	1013	LEU
8	h	1048	PRO
8	h	1146	VAL
8	h	1150	ILE
8	h	1178	LEU
8	h	1343	ARG
8	h	1378	ILE
8	h	1458	VAL
8	h	1460	PRO
8	h	1486	GLU
1	i	1335	ALA
1	i	1337	LEU
2	j	1015	ALA
2	j	1301	LEU
2	j	1467	ILE
2	j	1478	THR
3	k	1052	MET
3	k	1256	GLU
3	k	1460	ALA
3	k	1490	LYS
4	l	1017	PRO
4	l	1143	SER
4	l	1474	GLU
5	m	1036	GLY
5	m	1190	SER
6	n	1204	PRO
7	o	1063	SER
7	o	1250	LEU
7	o	1362	TYR
8	p	1006	PRO
8	p	1013	LEU
8	p	1048	PRO
8	p	1146	VAL
8	p	1150	ILE
8	p	1178	LEU
8	p	1343	ARG
8	p	1378	ILE
8	p	1458	VAL
8	p	1460	PRO
8	p	1486	GLU
1	A	74	ASP
1	A	121	HIS

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Mol	Chain	Res	Type
1	A	267	PRO
1	A	518	LEU
2	B	16	GLU
2	B	202	LYS
2	B	246	PHE
2	B	327	SER
3	C	265	LYS
4	D	9	ALA
4	D	95	SER
4	D	382	ALA
5	E	274	CYS
5	E	462	ARG
6	F	167	THR
6	F	343	LEU
7	G	368	CYS
7	G	428	SER
8	H	122	LEU
8	H	233	GLU
8	H	356	GLU
8	H	373	GLN
1	I	74	ASP
1	I	121	HIS
1	I	267	PRO
1	I	518	LEU
2	J	16	GLU
2	J	202	LYS
2	J	246	PHE
2	J	327	SER
3	K	265	LYS
4	L	9	ALA
4	L	95	SER
4	L	382	ALA
5	M	274	CYS
5	M	462	ARG
6	N	167	THR
6	N	343	LEU
7	O	368	CYS
7	O	428	SER
8	P	122	LEU
8	P	233	GLU
8	P	356	GLU
8	P	373	GLN

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Mol	Chain	Res	Type
1	a	1074	ASP
1	a	1121	HIS
1	a	1267	PRO
1	a	1518	LEU
2	b	1016	GLU
2	b	1202	LYS
2	b	1246	PHE
2	b	1327	SER
3	c	1265	LYS
4	d	1009	ALA
4	d	1095	SER
4	d	1382	ALA
5	e	1274	CYS
5	e	1462	ARG
6	f	1167	THR
6	f	1343	LEU
7	g	1368	CYS
7	g	1428	SER
8	h	1122	LEU
8	h	1233	GLU
8	h	1356	GLU
8	h	1373	GLN
1	i	1074	ASP
1	i	1121	HIS
1	i	1267	PRO
1	i	1518	LEU
2	j	1016	GLU
2	j	1202	LYS
2	j	1246	PHE
2	j	1327	SER
3	k	1265	LYS
4	l	1009	ALA
4	l	1095	SER
4	l	1382	ALA
5	m	1274	CYS
5	m	1462	ARG
6	n	1167	THR
6	n	1343	LEU
7	o	1368	CYS
7	o	1428	SER
8	p	1122	LEU
8	p	1233	GLU

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Mol	Chain	Res	Type
8	p	1356	GLU
8	p	1373	GLN
1	A	199	PRO
1	A	367	SER
2	B	293	TYR
3	C	30	ALA
3	C	249	PRO
4	D	294	ARG
4	D	431	SER
5	E	147	ALA
5	E	279	PRO
5	E	376	THR
6	F	24	THR
6	F	188	ASN
7	G	337	THR
8	H	49	CYS
8	H	322	LYS
1	I	199	PRO
1	I	367	SER
2	J	293	TYR
3	K	30	ALA
3	K	249	PRO
4	L	294	ARG
4	L	431	SER
5	M	147	ALA
5	M	279	PRO
5	M	376	THR
6	N	24	THR
6	N	188	ASN
7	O	337	THR
8	P	49	CYS
8	P	322	LYS
1	a	1199	PRO
1	a	1367	SER
2	b	1293	TYR
3	c	1030	ALA
3	c	1249	PRO
4	d	1294	ARG
4	d	1431	SER
5	e	1147	ALA
5	e	1279	PRO
5	e	1376	THR

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Mol	Chain	Res	Type
6	f	1024	THR
6	f	1188	ASN
7	g	1337	THR
8	h	1049	CYS
8	h	1322	LYS
1	i	1199	PRO
1	i	1367	SER
2	j	1293	TYR
3	k	1030	ALA
3	k	1249	PRO
4	l	1294	ARG
4	l	1431	SER
5	m	1147	ALA
5	m	1279	PRO
5	m	1376	THR
6	n	1024	THR
6	n	1188	ASN
7	o	1337	THR
8	p	1049	CYS
8	p	1322	LYS
1	A	55	ASP
1	A	77	HIS
2	B	372	ALA
5	E	254	MET
6	F	183	ASP
7	G	67	ALA
7	G	479	TYR
8	H	187	SER
8	H	484	VAL
1	I	55	ASP
1	I	77	HIS
2	J	372	ALA
5	M	254	MET
6	N	183	ASP
7	O	67	ALA
7	O	479	TYR
8	P	187	SER
8	P	484	VAL
1	a	1055	ASP
1	a	1077	HIS
5	e	1254	MET
6	f	1183	ASP

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Mol	Chain	Res	Type
7	g	1067	ALA
7	g	1479	TYR
8	h	1187	SER
8	h	1484	VAL
1	i	1055	ASP
1	i	1077	HIS
2	j	1372	ALA
5	m	1254	MET
6	n	1183	ASP
7	o	1067	ALA
7	o	1479	TYR
8	p	1187	SER
8	p	1484	VAL
1	A	22	GLY
1	A	376	GLY
1	A	549	PRO
2	B	117	PRO
3	C	410	PRO
5	E	493	GLY
8	H	284	ILE
8	H	324	PRO
1	I	22	GLY
1	I	376	GLY
1	I	549	PRO
2	J	117	PRO
3	K	410	PRO
5	M	493	GLY
8	P	284	ILE
8	P	324	PRO
1	a	1022	GLY
1	a	1376	GLY
1	a	1549	PRO
2	b	1117	PRO
3	c	1410	PRO
5	e	1493	GLY
8	h	1284	ILE
8	h	1324	PRO
1	i	1022	GLY
1	i	1376	GLY
1	i	1549	PRO
2	j	1117	PRO
3	k	1410	PRO

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Mol	Chain	Res	Type
5	m	1493	GLY
8	p	1284	ILE
8	p	1324	PRO
1	A	292	GLY
2	B	88	VAL
5	E	440	VAL
1	I	292	GLY
2	J	88	VAL
5	M	440	VAL
1	a	1292	GLY
2	b	1088	VAL
5	e	1440	VAL
1	i	1292	GLY
2	j	1088	VAL
5	m	1440	VAL
7	G	412	GLY
7	G	528	GLY
7	O	412	GLY
7	O	528	GLY
7	g	1412	GLY
7	g	1528	GLY
7	o	1412	GLY
7	o	1528	GLY
3	C	142	PRO
5	E	386	GLY
6	F	412	ILE
7	G	62	ILE
3	K	142	PRO
5	M	386	GLY
6	N	412	ILE
6	N	512	VAL
7	O	62	ILE
3	c	1142	PRO
5	e	1386	GLY
6	f	1412	ILE
7	g	1062	ILE
3	k	1142	PRO
5	m	1386	GLY
6	n	1412	ILE
7	o	1062	ILE
3	C	50	ASP
5	E	507	ILE

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Mol	Chain	Res	Type
6	F	512	VAL
3	K	50	ASP
5	M	507	ILE
5	e	1507	ILE
6	f	1512	VAL
3	k	1050	ASP
5	m	1507	ILE
6	n	1512	VAL

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	301/471 (64%)	272 (90%)	29 (10%)	8	29
1	I	301/471 (64%)	272 (90%)	29 (10%)	8	29
1	a	301/471 (64%)	272 (90%)	29 (10%)	8	29
1	i	301/471 (64%)	272 (90%)	29 (10%)	8	29
2	B	320/441 (73%)	264 (82%)	56 (18%)	2	12
2	J	320/441 (73%)	264 (82%)	56 (18%)	2	12
2	b	320/441 (73%)	263 (82%)	57 (18%)	2	12
2	j	319/441 (72%)	263 (82%)	56 (18%)	2	12
3	C	295/497 (59%)	267 (90%)	28 (10%)	8	30
3	K	296/497 (60%)	268 (90%)	28 (10%)	8	30
3	c	297/497 (60%)	269 (91%)	28 (9%)	8	30
3	k	297/497 (60%)	269 (91%)	28 (9%)	8	30
4	D	290/454 (64%)	257 (89%)	33 (11%)	5	23
4	L	290/454 (64%)	257 (89%)	33 (11%)	5	23
4	d	290/454 (64%)	258 (89%)	32 (11%)	6	24
4	l	290/454 (64%)	257 (89%)	33 (11%)	5	23
5	E	293/483 (61%)	262 (89%)	31 (11%)	6	26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	M	293/483 (61%)	262 (89%)	31 (11%)	6	26
5	e	293/483 (61%)	262 (89%)	31 (11%)	6	26
5	m	293/483 (61%)	262 (89%)	31 (11%)	6	26
6	F	334/463 (72%)	261 (78%)	73 (22%)	1	6
6	N	333/463 (72%)	260 (78%)	73 (22%)	1	6
6	f	334/463 (72%)	259 (78%)	75 (22%)	1	5
6	n	333/463 (72%)	259 (78%)	74 (22%)	1	5
7	G	275/454 (61%)	238 (86%)	37 (14%)	4	19
7	O	274/454 (60%)	237 (86%)	37 (14%)	4	19
7	g	274/454 (60%)	237 (86%)	37 (14%)	4	19
7	o	274/454 (60%)	237 (86%)	37 (14%)	4	19
8	H	307/473 (65%)	270 (88%)	37 (12%)	5	21
8	P	307/473 (65%)	270 (88%)	37 (12%)	5	21
8	h	306/473 (65%)	269 (88%)	37 (12%)	5	21
8	p	307/473 (65%)	270 (88%)	37 (12%)	5	21
All	All	9658/14944 (65%)	8359 (87%)	1299 (13%)	4	19

All (1299) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	SER
1	A	13	LEU
1	A	25	ILE
1	A	39	VAL
1	A	44	LEU
1	A	74	ASP
1	A	76	GLN
1	A	90	GLN
1	A	91	ASP
1	A	92	ARG
1	A	119	LYS
1	A	120	ILE
1	A	187	VAL
1	A	204	ASN
1	A	225	ASN
1	A	226	CYS
1	A	228	VAL

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Mol	Chain	Res	Type
1	A	248	ASP
1	A	250	ASN
1	A	273	ILE
1	A	344	LEU
1	A	402	LEU
1	A	419	VAL
1	A	446	LEU
1	A	484	SER
1	A	496	SER
1	A	532	LEU
1	A	547	VAL
1	A	548	ASP
2	B	3	VAL
2	B	4	GLN
2	B	5	ILE
2	B	27	ILE
2	B	31	ASP
2	B	32	LEU
2	B	33	VAL
2	B	35	SER
2	B	57	THR
2	B	58	ASN
2	B	66	SER
2	B	80	ILE
2	B	92	THR
2	B	145	ASP
2	B	149	PHE
2	B	170	LYS
2	B	176	LEU
2	B	197	LYS
2	B	203	LEU
2	B	213	ILE
2	B	217	LYS
2	B	231	ILE
2	B	233	ILE
2	B	238	LEU
2	B	239	ASP
2	B	245	ILE
2	B	246	PHE
2	B	268	LYS
2	B	285	ILE
2	B	287	ARG

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Mol	Chain	Res	Type
2	B	289	LEU
2	B	307	GLU
2	B	329	PHE
2	B	331	GLU
2	B	350	GLU
2	B	357	SER
2	B	373	THR
2	B	379	GLU
2	B	382	ARG
2	B	399	ARG
2	B	406	CYS
2	B	409	MET
2	B	427	SER
2	B	444	LEU
2	B	462	SER
2	B	463	ILE
2	B	465	ASN
2	B	467	ILE
2	B	469	THR
2	B	474	LEU
2	B	475	ASN
2	B	490	SER
2	B	492	LYS
2	B	507	VAL
2	B	508	LEU
2	B	512	ASP
3	C	8	MET
3	C	25	ILE
3	C	26	THR
3	C	34	VAL
3	C	44	MET
3	C	48	LEU
3	C	57	LEU
3	C	64	ILE
3	C	67	GLU
3	C	89	VAL
3	C	143	VAL
3	C	165	ILE
3	C	182	VAL
3	C	184	LYS
3	C	209	ILE
3	C	226	ASN

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Mol	Chain	Res	Type
3	C	239	GLU
3	C	248	CYS
3	C	250	LEU
3	C	259	THR
3	C	265	LYS
3	C	297	THR
3	C	302	SER
3	C	433	GLN
3	C	456	LEU
3	C	491	ILE
3	C	492	VAL
3	C	519	LEU
4	D	70	ILE
4	D	94	THR
4	D	95	SER
4	D	98	ILE
4	D	100	THR
4	D	103	LEU
4	D	135	LEU
4	D	144	LEU
4	D	146	ASP
4	D	147	ARG
4	D	161	LYS
4	D	175	VAL
4	D	187	LYS
4	D	194	ILE
4	D	198	LYS
4	D	209	MET
4	D	210	ILE
4	D	241	ILE
4	D	252	ILE
4	D	253	ILE
4	D	263	ILE
4	D	271	LEU
4	D	292	ILE
4	D	363	VAL
4	D	379	ILE
4	D	385	MET
4	D	392	ARG
4	D	410	LEU
4	D	424	ARG
4	D	482	ILE

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Mol	Chain	Res	Type
4	D	502	LEU
4	D	519	LEU
4	D	528	ARG
5	E	51	ILE
5	E	61	ILE
5	E	82	THR
5	E	86	ASP
5	E	93	GLN
5	E	103	LEU
5	E	106	GLN
5	E	107	LEU
5	E	108	SER
5	E	109	LYS
5	E	124	VAL
5	E	148	ASN
5	E	169	SER
5	E	175	LEU
5	E	187	SER
5	E	210	ASN
5	E	241	ASN
5	E	245	LEU
5	E	273	THR
5	E	283	THR
5	E	324	GLN
5	E	325	TRP
5	E	351	LEU
5	E	352	GLU
5	E	382	GLU
5	E	396	GLU
5	E	440	VAL
5	E	483	LEU
5	E	492	ILE
5	E	507	ILE
5	E	547	MET
6	F	1	MET
6	F	3	LEU
6	F	4	GLN
6	F	5	LEU
6	F	6	LEU
6	F	16	ASP
6	F	27	GLU
6	F	37	LEU

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Mol	Chain	Res	Type
6	F	42	THR
6	F	43	LEU
6	F	53	ILE
6	F	62	LEU
6	F	68	ILE
6	F	74	VAL
6	F	93	THR
6	F	102	LEU
6	F	113	VAL
6	F	117	ILE
6	F	133	LEU
6	F	142	ASN
6	F	143	LEU
6	F	152	GLN
6	F	158	LEU
6	F	167	THR
6	F	171	THR
6	F	183	ASP
6	F	196	ILE
6	F	198	GLN
6	F	209	PHE
6	F	213	LEU
6	F	243	GLU
6	F	246	GLU
6	F	294	VAL
6	F	295	ILE
6	F	321	LYS
6	F	328	LEU
6	F	330	LEU
6	F	338	ASN
6	F	370	ASN
6	F	376	CYS
6	F	378	ILE
6	F	390	GLN
6	F	399	LEU
6	F	406	LEU
6	F	407	LYS
6	F	409	LYS
6	F	420	ILE
6	F	424	ARG
6	F	433	LYS
6	F	434	LEU

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Mol	Chain	Res	Type
6	F	437	LYS
6	F	440	THR
6	F	442	THR
6	F	453	VAL
6	F	454	ILE
6	F	457	THR
6	F	458	LEU
6	F	470	LEU
6	F	477	LEU
6	F	483	SER
6	F	484	ASP
6	F	486	THR
6	F	489	VAL
6	F	502	THR
6	F	513	LEU
6	F	515	ASN
6	F	518	THR
6	F	538	ARG
6	F	540	THR
6	F	541	LEU
6	F	542	LYS
6	F	543	GLU
6	F	544	THR
7	G	36	VAL
7	G	37	GLN
7	G	43	THR
7	G	52	LEU
7	G	58	GLN
7	G	64	ASN
7	G	71	LYS
7	G	75	VAL
7	G	82	THR
7	G	86	ILE
7	G	100	SER
7	G	120	ILE
7	G	123	HIS
7	G	157	LEU
7	G	174	ASN
7	G	191	ARG
7	G	232	GLN
7	G	234	LYS
7	G	285	VAL

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Mol	Chain	Res	Type
7	G	305	GLN
7	G	312	ILE
7	G	334	ILE
7	G	346	LEU
7	G	376	LEU
7	G	377	LEU
7	G	393	LEU
7	G	399	ILE
7	G	400	VAL
7	G	401	LYS
7	G	408	LEU
7	G	410	VAL
7	G	418	MET
7	G	488	ILE
7	G	514	THR
7	G	516	LEU
7	G	525	THR
7	G	527	LYS
8	H	15	LYS
8	H	27	GLN
8	H	28	ILE
8	H	29	ILE
8	H	32	ILE
8	H	62	ILE
8	H	66	ASN
8	H	74	GLU
8	H	76	ASP
8	H	77	ILE
8	H	92	GLN
8	H	94	ILE
8	H	101	ASN
8	H	113	VAL
8	H	146	VAL
8	H	153	LYS
8	H	175	GLU
8	H	209	VAL
8	H	216	SER
8	H	237	LYS
8	H	244	LYS
8	H	267	LEU
8	H	310	LEU
8	H	314	ASN

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Mol	Chain	Res	Type
8	H	316	TYR
8	H	320	VAL
8	H	332	LEU
8	H	352	LEU
8	H	386	LEU
8	H	390	THR
8	H	408	VAL
8	H	430	LEU
8	H	451	GLN
8	H	466	THR
8	H	473	GLU
8	H	494	HIS
8	H	532	THR
1	I	8	SER
1	I	13	LEU
1	I	25	ILE
1	I	39	VAL
1	I	44	LEU
1	I	74	ASP
1	I	76	GLN
1	I	90	GLN
1	I	91	ASP
1	I	92	ARG
1	I	119	LYS
1	I	120	ILE
1	I	187	VAL
1	I	204	ASN
1	I	225	ASN
1	I	226	CYS
1	I	228	VAL
1	I	248	ASP
1	I	250	ASN
1	I	273	ILE
1	I	344	LEU
1	I	402	LEU
1	I	419	VAL
1	I	446	LEU
1	I	484	SER
1	I	496	SER
1	I	532	LEU
1	I	547	VAL
1	I	548	ASP

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Mol	Chain	Res	Type
2	J	3	VAL
2	J	4	GLN
2	J	5	ILE
2	J	27	ILE
2	J	31	ASP
2	J	32	LEU
2	J	33	VAL
2	J	35	SER
2	J	57	THR
2	J	58	ASN
2	J	66	SER
2	J	80	ILE
2	J	92	THR
2	J	145	ASP
2	J	149	PHE
2	J	170	LYS
2	J	176	LEU
2	J	197	LYS
2	J	203	LEU
2	J	213	ILE
2	J	217	LYS
2	J	231	ILE
2	J	233	ILE
2	J	238	LEU
2	J	239	ASP
2	J	245	ILE
2	J	246	PHE
2	J	268	LYS
2	J	285	ILE
2	J	287	ARG
2	J	289	LEU
2	J	307	GLU
2	J	329	PHE
2	J	331	GLU
2	J	350	GLU
2	J	357	SER
2	J	373	THR
2	J	379	GLU
2	J	382	ARG
2	J	399	ARG
2	J	406	CYS
2	J	409	MET

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Mol	Chain	Res	Type
2	J	427	SER
2	J	444	LEU
2	J	462	SER
2	J	463	ILE
2	J	465	ASN
2	J	467	ILE
2	J	469	THR
2	J	474	LEU
2	J	475	ASN
2	J	490	SER
2	J	492	LYS
2	J	507	VAL
2	J	508	LEU
2	J	512	ASP
3	K	8	MET
3	K	25	ILE
3	K	26	THR
3	K	34	VAL
3	K	44	MET
3	K	48	LEU
3	K	57	LEU
3	K	64	ILE
3	K	67	GLU
3	K	89	VAL
3	K	143	VAL
3	K	165	ILE
3	K	182	VAL
3	K	184	LYS
3	K	209	ILE
3	K	226	ASN
3	K	239	GLU
3	K	248	CYS
3	K	250	LEU
3	K	259	THR
3	K	265	LYS
3	K	297	THR
3	K	302	SER
3	K	433	GLN
3	K	456	LEU
3	K	491	ILE
3	K	492	VAL
3	K	519	LEU

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Mol	Chain	Res	Type
4	L	70	ILE
4	L	94	THR
4	L	95	SER
4	L	98	ILE
4	L	100	THR
4	L	103	LEU
4	L	135	LEU
4	L	144	LEU
4	L	146	ASP
4	L	147	ARG
4	L	161	LYS
4	L	175	VAL
4	L	187	LYS
4	L	194	ILE
4	L	198	LYS
4	L	209	MET
4	L	210	ILE
4	L	241	ILE
4	L	252	ILE
4	L	253	ILE
4	L	263	ILE
4	L	271	LEU
4	L	292	ILE
4	L	363	VAL
4	L	379	ILE
4	L	385	MET
4	L	392	ARG
4	L	410	LEU
4	L	424	ARG
4	L	482	ILE
4	L	502	LEU
4	L	519	LEU
4	L	528	ARG
5	M	51	ILE
5	M	61	ILE
5	M	82	THR
5	M	86	ASP
5	M	93	GLN
5	M	103	LEU
5	M	106	GLN
5	M	107	LEU
5	M	108	SER

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Mol	Chain	Res	Type
5	M	109	LYS
5	M	124	VAL
5	M	148	ASN
5	M	169	SER
5	M	175	LEU
5	M	187	SER
5	M	210	ASN
5	M	241	ASN
5	M	245	LEU
5	M	273	THR
5	M	283	THR
5	M	324	GLN
5	M	325	TRP
5	M	351	LEU
5	M	352	GLU
5	M	382	GLU
5	M	396	GLU
5	M	440	VAL
5	M	483	LEU
5	M	492	ILE
5	M	507	ILE
5	M	547	MET
6	N	1	MET
6	N	3	LEU
6	N	4	GLN
6	N	5	LEU
6	N	6	LEU
6	N	16	ASP
6	N	27	GLU
6	N	37	LEU
6	N	42	THR
6	N	53	ILE
6	N	62	LEU
6	N	68	ILE
6	N	74	VAL
6	N	75	LEU
6	N	93	THR
6	N	102	LEU
6	N	113	VAL
6	N	117	ILE
6	N	133	LEU
6	N	142	ASN

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Mol	Chain	Res	Type
6	N	143	LEU
6	N	152	GLN
6	N	158	LEU
6	N	167	THR
6	N	171	THR
6	N	183	ASP
6	N	196	ILE
6	N	198	GLN
6	N	209	PHE
6	N	213	LEU
6	N	243	GLU
6	N	246	GLU
6	N	294	VAL
6	N	295	ILE
6	N	321	LYS
6	N	328	LEU
6	N	330	LEU
6	N	338	ASN
6	N	370	ASN
6	N	376	CYS
6	N	378	ILE
6	N	390	GLN
6	N	399	LEU
6	N	406	LEU
6	N	407	LYS
6	N	409	LYS
6	N	420	ILE
6	N	424	ARG
6	N	433	LYS
6	N	434	LEU
6	N	437	LYS
6	N	440	THR
6	N	442	THR
6	N	453	VAL
6	N	454	ILE
6	N	457	THR
6	N	458	LEU
6	N	470	LEU
6	N	477	LEU
6	N	483	SER
6	N	484	ASP
6	N	486	THR

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Mol	Chain	Res	Type
6	N	489	VAL
6	N	502	THR
6	N	513	LEU
6	N	515	ASN
6	N	518	THR
6	N	538	ARG
6	N	540	THR
6	N	541	LEU
6	N	542	LYS
6	N	543	GLU
6	N	544	THR
7	O	36	VAL
7	O	37	GLN
7	O	43	THR
7	O	52	LEU
7	O	58	GLN
7	O	64	ASN
7	O	71	LYS
7	O	75	VAL
7	O	82	THR
7	O	86	ILE
7	O	100	SER
7	O	120	ILE
7	O	123	HIS
7	O	157	LEU
7	O	174	ASN
7	O	191	ARG
7	O	232	GLN
7	O	234	LYS
7	O	285	VAL
7	O	305	GLN
7	O	312	ILE
7	O	334	ILE
7	O	346	LEU
7	O	376	LEU
7	O	377	LEU
7	O	393	LEU
7	O	399	ILE
7	O	400	VAL
7	O	401	LYS
7	O	408	LEU
7	O	410	VAL

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Mol	Chain	Res	Type
7	O	418	MET
7	O	488	ILE
7	O	514	THR
7	O	516	LEU
7	O	525	THR
7	O	527	LYS
8	P	15	LYS
8	P	27	GLN
8	P	28	ILE
8	P	29	ILE
8	P	32	ILE
8	P	62	ILE
8	P	66	ASN
8	P	74	GLU
8	P	76	ASP
8	P	77	ILE
8	P	92	GLN
8	P	94	ILE
8	P	101	ASN
8	P	113	VAL
8	P	146	VAL
8	P	153	LYS
8	P	175	GLU
8	P	209	VAL
8	P	216	SER
8	P	237	LYS
8	P	244	LYS
8	P	267	LEU
8	P	310	LEU
8	P	314	ASN
8	P	316	TYR
8	P	320	VAL
8	P	332	LEU
8	P	352	LEU
8	P	386	LEU
8	P	390	THR
8	P	408	VAL
8	P	430	LEU
8	P	451	GLN
8	P	466	THR
8	P	473	GLU
8	P	494	HIS

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Mol	Chain	Res	Type
8	P	532	THR
1	a	1008	SER
1	a	1013	LEU
1	a	1025	ILE
1	a	1039	VAL
1	a	1044	LEU
1	a	1074	ASP
1	a	1076	GLN
1	a	1090	GLN
1	a	1091	ASP
1	a	1092	ARG
1	a	1119	LYS
1	a	1120	ILE
1	a	1187	VAL
1	a	1204	ASN
1	a	1225	ASN
1	a	1226	CYS
1	a	1228	VAL
1	a	1248	ASP
1	a	1250	ASN
1	a	1273	ILE
1	a	1344	LEU
1	a	1402	LEU
1	a	1419	VAL
1	a	1446	LEU
1	a	1484	SER
1	a	1496	SER
1	a	1532	LEU
1	a	1547	VAL
1	a	1548	ASP
2	b	1003	VAL
2	b	1004	GLN
2	b	1005	ILE
2	b	1027	ILE
2	b	1031	ASP
2	b	1032	LEU
2	b	1033	VAL
2	b	1035	SER
2	b	1057	THR
2	b	1058	ASN
2	b	1066	SER
2	b	1080	ILE

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Mol	Chain	Res	Type
2	b	1092	THR
2	b	1145	ASP
2	b	1149	PHE
2	b	1170	LYS
2	b	1176	LEU
2	b	1197	LYS
2	b	1203	LEU
2	b	1213	ILE
2	b	1217	LYS
2	b	1231	ILE
2	b	1233	ILE
2	b	1238	LEU
2	b	1239	ASP
2	b	1245	ILE
2	b	1246	PHE
2	b	1268	LYS
2	b	1285	ILE
2	b	1287	ARG
2	b	1289	LEU
2	b	1307	GLU
2	b	1329	PHE
2	b	1331	GLU
2	b	1348	LEU
2	b	1350	GLU
2	b	1357	SER
2	b	1373	THR
2	b	1379	GLU
2	b	1382	ARG
2	b	1399	ARG
2	b	1406	CYS
2	b	1409	MET
2	b	1427	SER
2	b	1444	LEU
2	b	1462	SER
2	b	1463	ILE
2	b	1465	ASN
2	b	1467	ILE
2	b	1469	THR
2	b	1474	LEU
2	b	1475	ASN
2	b	1490	SER
2	b	1492	LYS

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Mol	Chain	Res	Type
2	b	1507	VAL
2	b	1508	LEU
2	b	1512	ASP
3	c	1008	MET
3	c	1025	ILE
3	c	1026	THR
3	c	1034	VAL
3	c	1044	MET
3	c	1048	LEU
3	c	1057	LEU
3	c	1064	ILE
3	c	1067	GLU
3	c	1089	VAL
3	c	1143	VAL
3	c	1165	ILE
3	c	1182	VAL
3	c	1184	LYS
3	c	1209	ILE
3	c	1226	ASN
3	c	1239	GLU
3	c	1248	CYS
3	c	1250	LEU
3	c	1259	THR
3	c	1265	LYS
3	c	1297	THR
3	c	1302	SER
3	c	1433	GLN
3	c	1456	LEU
3	c	1491	ILE
3	c	1492	VAL
3	c	1519	LEU
4	d	1070	ILE
4	d	1094	THR
4	d	1095	SER
4	d	1098	ILE
4	d	1100	THR
4	d	1135	LEU
4	d	1144	LEU
4	d	1146	ASP
4	d	1147	ARG
4	d	1161	LYS
4	d	1175	VAL

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Mol	Chain	Res	Type
4	d	1187	LYS
4	d	1194	ILE
4	d	1198	LYS
4	d	1209	MET
4	d	1210	ILE
4	d	1241	ILE
4	d	1252	ILE
4	d	1253	ILE
4	d	1263	ILE
4	d	1271	LEU
4	d	1292	ILE
4	d	1363	VAL
4	d	1379	ILE
4	d	1385	MET
4	d	1392	ARG
4	d	1410	LEU
4	d	1424	ARG
4	d	1482	ILE
4	d	1502	LEU
4	d	1519	LEU
4	d	1528	ARG
5	e	1051	ILE
5	e	1061	ILE
5	e	1082	THR
5	e	1086	ASP
5	e	1093	GLN
5	e	1103	LEU
5	e	1106	GLN
5	e	1107	LEU
5	e	1108	SER
5	e	1109	LYS
5	e	1124	VAL
5	e	1148	ASN
5	e	1169	SER
5	e	1175	LEU
5	e	1187	SER
5	e	1210	ASN
5	e	1241	ASN
5	e	1245	LEU
5	e	1273	THR
5	e	1283	THR
5	e	1324	GLN

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Mol	Chain	Res	Type
5	e	1325	TRP
5	e	1351	LEU
5	e	1352	GLU
5	e	1382	GLU
5	e	1396	GLU
5	e	1440	VAL
5	e	1483	LEU
5	e	1492	ILE
5	e	1507	ILE
5	e	1547	MET
6	f	1001	MET
6	f	1003	LEU
6	f	1004	GLN
6	f	1005	LEU
6	f	1006	LEU
6	f	1016	ASP
6	f	1027	GLU
6	f	1037	LEU
6	f	1042	THR
6	f	1043	LEU
6	f	1053	ILE
6	f	1062	LEU
6	f	1068	ILE
6	f	1074	VAL
6	f	1075	LEU
6	f	1093	THR
6	f	1102	LEU
6	f	1113	VAL
6	f	1117	ILE
6	f	1133	LEU
6	f	1142	ASN
6	f	1143	LEU
6	f	1152	GLN
6	f	1158	LEU
6	f	1167	THR
6	f	1171	THR
6	f	1183	ASP
6	f	1196	ILE
6	f	1198	GLN
6	f	1209	PHE
6	f	1213	LEU
6	f	1243	GLU

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Mol	Chain	Res	Type
6	f	1246	GLU
6	f	1294	VAL
6	f	1295	ILE
6	f	1321	LYS
6	f	1328	LEU
6	f	1330	LEU
6	f	1338	ASN
6	f	1370	ASN
6	f	1376	CYS
6	f	1378	ILE
6	f	1390	GLN
6	f	1399	LEU
6	f	1406	LEU
6	f	1407	LYS
6	f	1409	LYS
6	f	1420	ILE
6	f	1424	ARG
6	f	1433	LYS
6	f	1434	LEU
6	f	1437	LYS
6	f	1439	LYS
6	f	1440	THR
6	f	1442	THR
6	f	1453	VAL
6	f	1454	ILE
6	f	1457	THR
6	f	1458	LEU
6	f	1470	LEU
6	f	1477	LEU
6	f	1483	SER
6	f	1484	ASP
6	f	1486	THR
6	f	1489	VAL
6	f	1502	THR
6	f	1513	LEU
6	f	1515	ASN
6	f	1518	THR
6	f	1538	ARG
6	f	1540	THR
6	f	1541	LEU
6	f	1542	LYS
6	f	1543	GLU

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Mol	Chain	Res	Type
6	f	1544	THR
7	g	1036	VAL
7	g	1037	GLN
7	g	1043	THR
7	g	1052	LEU
7	g	1058	GLN
7	g	1064	ASN
7	g	1071	LYS
7	g	1075	VAL
7	g	1082	THR
7	g	1086	ILE
7	g	1100	SER
7	g	1120	ILE
7	g	1123	HIS
7	g	1157	LEU
7	g	1174	ASN
7	g	1191	ARG
7	g	1232	GLN
7	g	1234	LYS
7	g	1285	VAL
7	g	1305	GLN
7	g	1312	ILE
7	g	1334	ILE
7	g	1346	LEU
7	g	1376	LEU
7	g	1377	LEU
7	g	1393	LEU
7	g	1399	ILE
7	g	1400	VAL
7	g	1401	LYS
7	g	1408	LEU
7	g	1410	VAL
7	g	1418	MET
7	g	1488	ILE
7	g	1514	THR
7	g	1516	LEU
7	g	1525	THR
7	g	1527	LYS
8	h	1015	LYS
8	h	1027	GLN
8	h	1028	ILE
8	h	1029	ILE

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Mol	Chain	Res	Type
8	h	1032	ILE
8	h	1062	ILE
8	h	1066	ASN
8	h	1074	GLU
8	h	1076	ASP
8	h	1077	ILE
8	h	1092	GLN
8	h	1094	ILE
8	h	1101	ASN
8	h	1113	VAL
8	h	1146	VAL
8	h	1153	LYS
8	h	1175	GLU
8	h	1209	VAL
8	h	1216	SER
8	h	1237	LYS
8	h	1244	LYS
8	h	1267	LEU
8	h	1310	LEU
8	h	1314	ASN
8	h	1316	TYR
8	h	1320	VAL
8	h	1332	LEU
8	h	1352	LEU
8	h	1386	LEU
8	h	1390	THR
8	h	1408	VAL
8	h	1430	LEU
8	h	1451	GLN
8	h	1466	THR
8	h	1473	GLU
8	h	1494	HIS
8	h	1532	THR
1	i	1008	SER
1	i	1013	LEU
1	i	1025	ILE
1	i	1039	VAL
1	i	1044	LEU
1	i	1074	ASP
1	i	1076	GLN
1	i	1090	GLN
1	i	1091	ASP

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Mol	Chain	Res	Type
1	i	1092	ARG
1	i	1119	LYS
1	i	1120	ILE
1	i	1187	VAL
1	i	1204	ASN
1	i	1225	ASN
1	i	1226	CYS
1	i	1228	VAL
1	i	1248	ASP
1	i	1250	ASN
1	i	1273	ILE
1	i	1344	LEU
1	i	1402	LEU
1	i	1419	VAL
1	i	1446	LEU
1	i	1484	SER
1	i	1496	SER
1	i	1532	LEU
1	i	1547	VAL
1	i	1548	ASP
2	j	1003	VAL
2	j	1004	GLN
2	j	1005	ILE
2	j	1027	ILE
2	j	1031	ASP
2	j	1032	LEU
2	j	1033	VAL
2	j	1035	SER
2	j	1057	THR
2	j	1058	ASN
2	j	1066	SER
2	j	1080	ILE
2	j	1092	THR
2	j	1145	ASP
2	j	1149	PHE
2	j	1170	LYS
2	j	1176	LEU
2	j	1197	LYS
2	j	1203	LEU
2	j	1213	ILE
2	j	1217	LYS
2	j	1231	ILE

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Mol	Chain	Res	Type
2	j	1233	ILE
2	j	1238	LEU
2	j	1239	ASP
2	j	1245	ILE
2	j	1246	PHE
2	j	1268	LYS
2	j	1285	ILE
2	j	1287	ARG
2	j	1289	LEU
2	j	1307	GLU
2	j	1329	PHE
2	j	1331	GLU
2	j	1350	GLU
2	j	1357	SER
2	j	1373	THR
2	j	1379	GLU
2	j	1382	ARG
2	j	1399	ARG
2	j	1406	CYS
2	j	1409	MET
2	j	1427	SER
2	j	1444	LEU
2	j	1462	SER
2	j	1463	ILE
2	j	1465	ASN
2	j	1467	ILE
2	j	1469	THR
2	j	1474	LEU
2	j	1475	ASN
2	j	1490	SER
2	j	1492	LYS
2	j	1507	VAL
2	j	1508	LEU
2	j	1512	ASP
3	k	1008	MET
3	k	1025	ILE
3	k	1026	THR
3	k	1034	VAL
3	k	1044	MET
3	k	1048	LEU
3	k	1057	LEU
3	k	1064	ILE

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Mol	Chain	Res	Type
3	k	1067	GLU
3	k	1089	VAL
3	k	1143	VAL
3	k	1165	ILE
3	k	1182	VAL
3	k	1184	LYS
3	k	1209	ILE
3	k	1226	ASN
3	k	1239	GLU
3	k	1248	CYS
3	k	1250	LEU
3	k	1259	THR
3	k	1265	LYS
3	k	1297	THR
3	k	1302	SER
3	k	1433	GLN
3	k	1456	LEU
3	k	1491	ILE
3	k	1492	VAL
3	k	1519	LEU
4	l	1070	ILE
4	l	1094	THR
4	l	1095	SER
4	l	1098	ILE
4	l	1100	THR
4	l	1103	LEU
4	l	1135	LEU
4	l	1144	LEU
4	l	1146	ASP
4	l	1147	ARG
4	l	1161	LYS
4	l	1175	VAL
4	l	1187	LYS
4	l	1194	ILE
4	l	1198	LYS
4	l	1209	MET
4	l	1210	ILE
4	l	1241	ILE
4	l	1252	ILE
4	l	1253	ILE
4	l	1263	ILE
4	l	1271	LEU

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Mol	Chain	Res	Type
4	l	1292	ILE
4	l	1363	VAL
4	l	1379	ILE
4	l	1385	MET
4	l	1392	ARG
4	l	1410	LEU
4	l	1424	ARG
4	l	1482	ILE
4	l	1502	LEU
4	l	1519	LEU
4	l	1528	ARG
5	m	1051	ILE
5	m	1061	ILE
5	m	1082	THR
5	m	1086	ASP
5	m	1093	GLN
5	m	1103	LEU
5	m	1106	GLN
5	m	1107	LEU
5	m	1108	SER
5	m	1109	LYS
5	m	1124	VAL
5	m	1148	ASN
5	m	1169	SER
5	m	1175	LEU
5	m	1187	SER
5	m	1210	ASN
5	m	1241	ASN
5	m	1245	LEU
5	m	1273	THR
5	m	1283	THR
5	m	1324	GLN
5	m	1325	TRP
5	m	1351	LEU
5	m	1352	GLU
5	m	1382	GLU
5	m	1396	GLU
5	m	1440	VAL
5	m	1483	LEU
5	m	1492	ILE
5	m	1507	ILE
5	m	1547	MET

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Mol	Chain	Res	Type
6	n	1001	MET
6	n	1003	LEU
6	n	1004	GLN
6	n	1005	LEU
6	n	1006	LEU
6	n	1016	ASP
6	n	1027	GLU
6	n	1037	LEU
6	n	1042	THR
6	n	1043	LEU
6	n	1053	ILE
6	n	1062	LEU
6	n	1068	ILE
6	n	1074	VAL
6	n	1075	LEU
6	n	1093	THR
6	n	1102	LEU
6	n	1113	VAL
6	n	1117	ILE
6	n	1133	LEU
6	n	1142	ASN
6	n	1143	LEU
6	n	1152	GLN
6	n	1158	LEU
6	n	1167	THR
6	n	1171	THR
6	n	1183	ASP
6	n	1196	ILE
6	n	1198	GLN
6	n	1209	PHE
6	n	1213	LEU
6	n	1243	GLU
6	n	1246	GLU
6	n	1294	VAL
6	n	1295	ILE
6	n	1321	LYS
6	n	1328	LEU
6	n	1330	LEU
6	n	1338	ASN
6	n	1370	ASN
6	n	1376	CYS
6	n	1378	ILE

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Mol	Chain	Res	Type
6	n	1390	GLN
6	n	1399	LEU
6	n	1406	LEU
6	n	1407	LYS
6	n	1409	LYS
6	n	1420	ILE
6	n	1424	ARG
6	n	1433	LYS
6	n	1434	LEU
6	n	1437	LYS
6	n	1440	THR
6	n	1442	THR
6	n	1453	VAL
6	n	1454	ILE
6	n	1457	THR
6	n	1458	LEU
6	n	1470	LEU
6	n	1477	LEU
6	n	1483	SER
6	n	1484	ASP
6	n	1486	THR
6	n	1489	VAL
6	n	1502	THR
6	n	1513	LEU
6	n	1515	ASN
6	n	1518	THR
6	n	1538	ARG
6	n	1540	THR
6	n	1541	LEU
6	n	1542	LYS
6	n	1543	GLU
6	n	1544	THR
7	o	1036	VAL
7	o	1037	GLN
7	o	1043	THR
7	o	1052	LEU
7	o	1058	GLN
7	o	1064	ASN
7	o	1071	LYS
7	o	1075	VAL
7	o	1082	THR
7	o	1086	ILE

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Mol	Chain	Res	Type
7	o	1100	SER
7	o	1120	ILE
7	o	1123	HIS
7	o	1157	LEU
7	o	1174	ASN
7	o	1191	ARG
7	o	1232	GLN
7	o	1234	LYS
7	o	1285	VAL
7	o	1305	GLN
7	o	1312	ILE
7	o	1334	ILE
7	o	1346	LEU
7	o	1376	LEU
7	o	1377	LEU
7	o	1393	LEU
7	o	1399	ILE
7	o	1400	VAL
7	o	1401	LYS
7	o	1408	LEU
7	o	1410	VAL
7	o	1418	MET
7	o	1488	ILE
7	o	1514	THR
7	o	1516	LEU
7	o	1525	THR
7	o	1527	LYS
8	p	1015	LYS
8	p	1027	GLN
8	p	1028	ILE
8	p	1029	ILE
8	p	1032	ILE
8	p	1062	ILE
8	p	1066	ASN
8	p	1074	GLU
8	p	1076	ASP
8	p	1077	ILE
8	p	1092	GLN
8	p	1094	ILE
8	p	1101	ASN
8	p	1113	VAL
8	p	1146	VAL

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Mol	Chain	Res	Type
8	p	1153	LYS
8	p	1175	GLU
8	p	1209	VAL
8	p	1216	SER
8	p	1237	LYS
8	p	1244	LYS
8	p	1267	LEU
8	p	1310	LEU
8	p	1314	ASN
8	p	1316	TYR
8	p	1320	VAL
8	p	1332	LEU
8	p	1352	LEU
8	p	1386	LEU
8	p	1390	THR
8	p	1408	VAL
8	p	1430	LEU
8	p	1451	GLN
8	p	1466	THR
8	p	1473	GLU
8	p	1494	HIS
8	p	1532	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (303) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	64	ASN
1	A	90	GLN
1	A	113	ASN
1	A	121	HIS
1	A	178	ASN
1	A	204	ASN
1	A	209	HIS
1	A	250	ASN
1	A	252	GLN
1	A	363	GLN
1	A	391	ASN
1	A	435	ASN
2	B	4	GLN
2	B	9	GLN
2	B	58	ASN
2	B	116	HIS

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Mol	Chain	Res	Type
2	B	228	ASN
2	B	235	ASN
2	B	260	GLN
2	B	271	ASN
2	B	286	ASN
2	B	375	GLN
2	B	385	HIS
2	B	393	GLN
2	B	439	GLN
2	B	475	ASN
3	C	9	ASN
3	C	12	GLN
3	C	24	ASN
3	C	85	GLN
3	C	166	HIS
3	C	270	ASN
3	C	325	ASN
3	C	433	GLN
3	C	439	GLN
3	C	508	GLN
4	D	59	ASN
4	D	72	HIS
4	D	217	GLN
4	D	238	GLN
4	D	259	GLN
4	D	384	ASN
4	D	461	ASN
4	D	499	GLN
5	E	37	ASN
5	E	50	HIS
5	E	93	GLN
5	E	106	GLN
5	E	132	GLN
5	E	210	ASN
5	E	296	GLN
5	E	324	GLN
5	E	338	ASN
5	E	466	GLN
5	E	553	ASN
6	F	104	GLN
6	F	110	GLN
6	F	198	GLN

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Mol	Chain	Res	Type
6	F	217	HIS
6	F	221	HIS
6	F	337	GLN
6	F	494	ASN
6	F	515	ASN
7	G	37	GLN
7	G	58	GLN
7	G	268	GLN
7	G	305	GLN
7	G	472	HIS
7	G	526	ASN
8	H	27	GLN
8	H	66	ASN
8	H	79	HIS
8	H	92	GLN
8	H	101	ASN
8	H	188	HIS
8	H	283	GLN
8	H	373	GLN
8	H	446	GLN
8	H	451	GLN
1	I	29	ASN
1	I	64	ASN
1	I	90	GLN
1	I	113	ASN
1	I	121	HIS
1	I	178	ASN
1	I	204	ASN
1	I	209	HIS
1	I	250	ASN
1	I	252	GLN
1	I	363	GLN
1	I	391	ASN
1	I	435	ASN
2	J	4	GLN
2	J	9	GLN
2	J	58	ASN
2	J	116	HIS
2	J	228	ASN
2	J	235	ASN
2	J	260	GLN
2	J	271	ASN

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Mol	Chain	Res	Type
2	J	286	ASN
2	J	375	GLN
2	J	393	GLN
2	J	439	GLN
2	J	475	ASN
3	K	9	ASN
3	K	24	ASN
3	K	117	HIS
3	K	166	HIS
3	K	325	ASN
3	K	433	GLN
3	K	439	GLN
4	L	59	ASN
4	L	72	HIS
4	L	217	GLN
4	L	238	GLN
4	L	259	GLN
4	L	384	ASN
4	L	461	ASN
4	L	499	GLN
5	M	37	ASN
5	M	50	HIS
5	M	93	GLN
5	M	106	GLN
5	M	132	GLN
5	M	142	HIS
5	M	210	ASN
5	M	296	GLN
5	M	324	GLN
5	M	338	ASN
5	M	466	GLN
6	N	104	GLN
6	N	110	GLN
6	N	198	GLN
6	N	217	HIS
6	N	221	HIS
6	N	337	GLN
6	N	515	ASN
7	O	37	GLN
7	O	58	GLN
7	O	238	ASN
7	O	305	GLN

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Mol	Chain	Res	Type
7	O	356	GLN
7	O	472	HIS
7	O	526	ASN
8	P	27	GLN
8	P	66	ASN
8	P	79	HIS
8	P	92	GLN
8	P	101	ASN
8	P	188	HIS
8	P	373	GLN
8	P	446	GLN
8	P	451	GLN
8	P	472	ASN
1	a	1064	ASN
1	a	1090	GLN
1	a	1113	ASN
1	a	1121	HIS
1	a	1178	ASN
1	a	1204	ASN
1	a	1209	HIS
1	a	1250	ASN
1	a	1252	GLN
1	a	1363	GLN
1	a	1391	ASN
2	b	1004	GLN
2	b	1009	GLN
2	b	1058	ASN
2	b	1116	HIS
2	b	1228	ASN
2	b	1235	ASN
2	b	1260	GLN
2	b	1271	ASN
2	b	1286	ASN
2	b	1375	GLN
2	b	1393	GLN
2	b	1439	GLN
2	b	1475	ASN
3	c	1009	ASN
3	c	1024	ASN
3	c	1085	GLN
3	c	1117	HIS
3	c	1166	HIS

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Mol	Chain	Res	Type
3	c	1325	ASN
3	c	1433	GLN
3	c	1439	GLN
3	c	1508	GLN
4	d	1059	ASN
4	d	1072	HIS
4	d	1217	GLN
4	d	1238	GLN
4	d	1259	GLN
4	d	1384	ASN
4	d	1461	ASN
4	d	1499	GLN
5	e	1035	GLN
5	e	1037	ASN
5	e	1050	HIS
5	e	1093	GLN
5	e	1106	GLN
5	e	1132	GLN
5	e	1142	HIS
5	e	1210	ASN
5	e	1296	GLN
5	e	1324	GLN
5	e	1338	ASN
5	e	1466	GLN
6	f	1110	GLN
6	f	1192	HIS
6	f	1198	GLN
6	f	1217	HIS
6	f	1221	HIS
6	f	1494	ASN
6	f	1515	ASN
7	g	1037	GLN
7	g	1058	GLN
7	g	1238	ASN
7	g	1305	GLN
7	g	1356	GLN
7	g	1472	HIS
8	h	1027	GLN
8	h	1066	ASN
8	h	1079	HIS
8	h	1092	GLN
8	h	1101	ASN

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Mol	Chain	Res	Type
8	h	1188	HIS
8	h	1373	GLN
8	h	1446	GLN
8	h	1451	GLN
1	i	1064	ASN
1	i	1090	GLN
1	i	1121	HIS
1	i	1178	ASN
1	i	1204	ASN
1	i	1209	HIS
1	i	1250	ASN
1	i	1252	GLN
1	i	1363	GLN
1	i	1391	ASN
1	i	1435	ASN
2	j	1004	GLN
2	j	1009	GLN
2	j	1058	ASN
2	j	1116	HIS
2	j	1228	ASN
2	j	1235	ASN
2	j	1260	GLN
2	j	1271	ASN
2	j	1286	ASN
2	j	1375	GLN
2	j	1393	GLN
2	j	1439	GLN
2	j	1475	ASN
3	k	1009	ASN
3	k	1024	ASN
3	k	1085	GLN
3	k	1117	HIS
3	k	1166	HIS
3	k	1433	GLN
3	k	1439	GLN
3	k	1508	GLN
4	l	1059	ASN
4	l	1072	HIS
4	l	1217	GLN
4	l	1238	GLN
4	l	1259	GLN
4	l	1384	ASN

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Mol	Chain	Res	Type
4	l	1461	ASN
4	l	1499	GLN
5	m	1035	GLN
5	m	1037	ASN
5	m	1050	HIS
5	m	1093	GLN
5	m	1132	GLN
5	m	1210	ASN
5	m	1296	GLN
5	m	1324	GLN
5	m	1338	ASN
5	m	1466	GLN
5	m	1553	ASN
6	n	1104	GLN
6	n	1110	GLN
6	n	1198	GLN
6	n	1217	HIS
6	n	1221	HIS
6	n	1494	ASN
6	n	1515	ASN
7	o	1037	GLN
7	o	1058	GLN
7	o	1268	GLN
7	o	1305	GLN
7	o	1472	HIS
7	o	1526	ASN
8	p	1027	GLN
8	p	1066	ASN
8	p	1079	HIS
8	p	1092	GLN
8	p	1101	ASN
8	p	1188	HIS
8	p	1373	GLN
8	p	1446	GLN
8	p	1451	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

56 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	$\# Z > 2$
9	ADP	n	1601	10	28,29,29	2.28	8 (28%)	43,45,45	2.11	16 (37%)
9	ADP	b	1601	10	28,29,29	2.27	9 (32%)	43,45,45	2.08	15 (34%)
9	ADP	B	601	10	28,29,29	2.26	10 (35%)	43,45,45	2.18	14 (32%)
9	ADP	g	1601	10	28,29,29	2.32	9 (32%)	43,45,45	2.13	16 (37%)
10	BEF	f	1602	9	0,3,3	-	-	-	-	-
9	ADP	e	1601	10	28,29,29	2.25	9 (32%)	43,45,45	2.06	14 (32%)
10	BEF	C	1102	9	0,3,3	-	-	-	-	-
10	BEF	M	602	9	0,3,3	-	-	-	-	-
10	BEF	D	602	9	0,3,3	-	-	-	-	-
10	BEF	g	1602	9	0,3,3	-	-	-	-	-
10	BEF	k	2102	9	0,3,3	-	-	-	-	-
11	SO4	o	1600	-	4,4,4	0.23	0	6,6,6	0.10	0
9	ADP	f	1601	10	28,29,29	2.30	8 (28%)	43,45,45	2.17	16 (37%)
10	BEF	n	1602	9	0,3,3	-	-	-	-	-
9	ADP	M	601	10	28,29,29	2.26	10 (35%)	43,45,45	2.11	15 (34%)
10	BEF	P	602	9	0,3,3	-	-	-	-	-
10	BEF	l	1602	9	0,3,3	-	-	-	-	-
10	BEF	a	1602	9	0,3,3	-	-	-	-	-
11	SO4	O	600	-	4,4,4	0.27	0	6,6,6	0.14	0
9	ADP	D	601	10	28,29,29	2.33	9 (32%)	43,45,45	2.16	14 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
9	ADP	m	1601	10	28,29,29	2.29	9 (32%)	43,45,45	2.11	15 (34%)
10	BEF	L	602	9	0,3,3	-	-	-		
10	BEF	b	1602	9	0,3,3	-	-	-		
9	ADP	p	1601	10	28,29,29	2.28	9 (32%)	43,45,45	2.09	14 (32%)
10	BEF	h	1602	9	0,3,3	-	-	-		
10	BEF	m	1602	9	0,3,3	-	-	-		
10	BEF	p	1602	9	0,3,3	-	-	-		
9	ADP	L	601	10	28,29,29	2.31	9 (32%)	43,45,45	2.13	15 (34%)
10	BEF	J	602	9	0,3,3	-	-	-		
11	SO4	I	600	-	4,4,4	0.26	0	6,6,6	0.17	0
11	SO4	d	1600	-	4,4,4	0.23	0	6,6,6	0.15	0
10	BEF	A	602	9	0,3,3	-	-	-		
9	ADP	H	601	10	28,29,29	2.28	9 (32%)	43,45,45	2.06	14 (32%)
10	BEF	G	602	9	0,3,3	-	-	-		
9	ADP	P	601	10	28,29,29	2.27	9 (32%)	43,45,45	2.04	15 (34%)
9	ADP	k	2101	10	28,29,29	2.32	9 (32%)	43,45,45	2.14	16 (37%)
10	BEF	E	602	9	0,3,3	-	-	-		
9	ADP	C	1101	10	28,29,29	2.25	9 (32%)	43,45,45	2.05	16 (37%)
9	ADP	h	1601	10	28,29,29	2.29	9 (32%)	43,45,45	1.99	16 (37%)
10	BEF	e	1602	9	0,3,3	-	-	-		
9	ADP	A	601	10	28,29,29	2.27	9 (32%)	43,45,45	2.18	16 (37%)
11	SO4	K	1101	-	4,4,4	0.24	0	6,6,6	0.21	0
10	BEF	N	602	9	0,3,3	-	-	-		
11	SO4	i	1600	-	4,4,4	0.22	0	6,6,6	0.30	0
9	ADP	G	601	10	28,29,29	2.24	9 (32%)	43,45,45	2.17	16 (37%)
9	ADP	l	1601	10	28,29,29	2.35	9 (32%)	43,45,45	2.21	16 (37%)
9	ADP	a	1601	10	28,29,29	2.28	9 (32%)	43,45,45	2.16	14 (32%)
9	ADP	E	601	10	28,29,29	2.30	9 (32%)	43,45,45	2.16	15 (34%)
9	ADP	J	601	10	28,29,29	2.27	9 (32%)	43,45,45	2.20	13 (30%)
11	SO4	c	2101	-	4,4,4	0.28	0	6,6,6	0.16	0
9	ADP	N	601	10	28,29,29	2.27	9 (32%)	43,45,45	2.17	17 (39%)
10	BEF	H	602	9	0,3,3	-	-	-		
9	ADP	F	601	10	28,29,29	2.36	9 (32%)	43,45,45	2.15	16 (37%)
10	BEF	F	602	9	0,3,3	-	-	-		
10	BEF	B	602	9	0,3,3	-	-	-		
11	SO4	j	1600	-	4,4,4	0.20	0	6,6,6	0.15	0

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
9	ADP	n	1601	10	1/1/6/6	4/16/32/32	0/3/3/3
9	ADP	b	1601	10	2/2/6/6	8/16/32/32	0/3/3/3
9	ADP	B	601	10	2/2/6/6	4/16/32/32	0/3/3/3
9	ADP	g	1601	10	1/1/6/6	4/16/32/32	0/3/3/3
9	ADP	e	1601	10	2/2/6/6	5/16/32/32	0/3/3/3
9	ADP	f	1601	10	2/2/6/6	6/16/32/32	0/3/3/3
9	ADP	M	601	10	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	D	601	10	2/2/6/6	3/16/32/32	0/3/3/3
9	ADP	m	1601	10	2/2/6/6	5/16/32/32	0/3/3/3
9	ADP	p	1601	10	1/1/6/6	5/16/32/32	0/3/3/3
9	ADP	L	601	10	-	5/16/32/32	0/3/3/3
9	ADP	H	601	10	1/1/6/6	7/16/32/32	0/3/3/3
9	ADP	P	601	10	1/1/6/6	3/16/32/32	0/3/3/3
9	ADP	k	2101	10	2/2/6/6	4/16/32/32	0/3/3/3
9	ADP	C	1101	10	2/2/6/6	5/16/32/32	0/3/3/3
9	ADP	h	1601	10	1/1/6/6	3/16/32/32	0/3/3/3
9	ADP	A	601	10	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	G	601	10	1/1/6/6	6/16/32/32	0/3/3/3
9	ADP	l	1601	10	-	3/16/32/32	0/3/3/3
9	ADP	a	1601	10	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	E	601	10	1/1/6/6	5/16/32/32	0/3/3/3
9	ADP	J	601	10	2/2/6/6	6/16/32/32	0/3/3/3
9	ADP	N	601	10	2/2/6/6	7/16/32/32	0/3/3/3
9	ADP	F	601	10	-	10/16/32/32	0/3/3/3

All (216) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	D	601	ADP	PA-O3A	5.87	1.65	1.59
9	F	601	ADP	PA-O3A	5.46	1.65	1.59
9	l	1601	ADP	PA-O3A	5.40	1.65	1.59
9	k	2101	ADP	PA-O3A	5.33	1.65	1.59
9	L	601	ADP	PA-O3A	5.21	1.65	1.59
9	n	1601	ADP	PA-O3A	5.18	1.65	1.59
9	H	601	ADP	PA-O3A	5.09	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	g	1601	ADP	PA-O3A	5.06	1.65	1.59
9	f	1601	ADP	PA-O3A	5.05	1.65	1.59
9	h	1601	ADP	PA-O3A	5.03	1.64	1.59
9	p	1601	ADP	PB-O1B	4.97	1.65	1.50
9	E	601	ADP	PA-O3A	4.96	1.64	1.59
9	P	601	ADP	PA-O3A	4.93	1.64	1.59
9	M	601	ADP	PA-O3A	4.91	1.64	1.59
9	N	601	ADP	PB-O1B	4.85	1.65	1.50
9	l	1601	ADP	PB-O1B	4.85	1.65	1.50
9	E	601	ADP	PB-O1B	4.85	1.65	1.50
9	h	1601	ADP	PB-O1B	4.85	1.65	1.50
9	k	2101	ADP	PB-O1B	4.84	1.65	1.50
9	J	601	ADP	PA-O3A	4.83	1.64	1.59
9	f	1601	ADP	PB-O1B	4.82	1.65	1.50
9	C	1101	ADP	PA-O3A	4.81	1.64	1.59
9	b	1601	ADP	PA-O3A	4.81	1.64	1.59
9	m	1601	ADP	PA-O3A	4.81	1.64	1.59
9	F	601	ADP	PB-O1B	4.75	1.65	1.50
9	B	601	ADP	PB-O1B	4.74	1.65	1.50
9	J	601	ADP	PB-O1B	4.74	1.65	1.50
9	g	1601	ADP	PB-O1B	4.73	1.65	1.50
9	a	1601	ADP	PA-O3A	4.72	1.64	1.59
9	p	1601	ADP	PA-O3A	4.72	1.64	1.59
9	A	601	ADP	PB-O1B	4.72	1.65	1.50
9	N	601	ADP	PA-O3A	4.67	1.64	1.59
9	b	1601	ADP	PB-O1B	4.66	1.65	1.50
9	G	601	ADP	PB-O1B	4.62	1.64	1.50
9	A	601	ADP	PA-O3A	4.62	1.64	1.59
9	M	601	ADP	PB-O1B	4.61	1.64	1.50
9	H	601	ADP	PB-O1B	4.61	1.64	1.50
9	e	1601	ADP	PA-O3A	4.61	1.64	1.59
9	l	1601	ADP	C6-N6	4.61	1.46	1.34
9	L	601	ADP	PB-O1B	4.59	1.64	1.50
9	p	1601	ADP	C6-N6	4.59	1.45	1.34
9	f	1601	ADP	C6-N6	4.58	1.45	1.34
9	e	1601	ADP	PB-O1B	4.58	1.64	1.50
9	m	1601	ADP	PB-O1B	4.58	1.64	1.50
9	P	601	ADP	PB-O1B	4.56	1.64	1.50
9	n	1601	ADP	C6-N6	4.56	1.45	1.34
9	a	1601	ADP	PB-O1B	4.55	1.64	1.50
9	k	2101	ADP	C6-N6	4.53	1.45	1.34
9	h	1601	ADP	C6-N6	4.53	1.45	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B	601	ADP	C6-N6	4.51	1.45	1.34
9	n	1601	ADP	PB-O1B	4.51	1.64	1.50
9	M	601	ADP	C6-N6	4.49	1.45	1.34
9	G	601	ADP	PA-O1A	4.49	1.66	1.50
9	P	601	ADP	C6-N6	4.49	1.45	1.34
9	b	1601	ADP	C6-N6	4.48	1.45	1.34
9	C	1101	ADP	PB-O1B	4.47	1.64	1.50
9	m	1601	ADP	C6-N6	4.47	1.45	1.34
9	e	1601	ADP	C6-N6	4.46	1.45	1.34
9	C	1101	ADP	C6-N6	4.46	1.45	1.34
9	J	601	ADP	C6-N6	4.45	1.45	1.34
9	L	601	ADP	C6-N6	4.45	1.45	1.34
9	N	601	ADP	C6-N6	4.45	1.45	1.34
9	H	601	ADP	C6-N6	4.44	1.45	1.34
9	D	601	ADP	PB-O1B	4.43	1.64	1.50
9	a	1601	ADP	C6-N6	4.41	1.45	1.34
9	F	601	ADP	C6-N6	4.40	1.45	1.34
9	g	1601	ADP	C6-N6	4.40	1.45	1.34
9	G	601	ADP	C6-N6	4.38	1.45	1.34
9	A	601	ADP	C6-N6	4.38	1.45	1.34
9	E	601	ADP	C6-N6	4.36	1.45	1.34
9	A	601	ADP	PA-O1A	4.33	1.65	1.50
9	D	601	ADP	C6-N6	4.30	1.45	1.34
9	k	2101	ADP	PA-O1A	4.23	1.65	1.50
9	F	601	ADP	PA-O1A	4.21	1.65	1.50
9	P	601	ADP	PA-O1A	4.19	1.65	1.50
9	g	1601	ADP	PA-O1A	4.19	1.65	1.50
9	H	601	ADP	PA-O1A	4.17	1.65	1.50
9	a	1601	ADP	PA-O1A	4.17	1.65	1.50
9	C	1101	ADP	PA-O1A	4.16	1.65	1.50
9	N	601	ADP	PA-O1A	4.16	1.65	1.50
9	h	1601	ADP	PA-O1A	4.15	1.65	1.50
9	E	601	ADP	PA-O1A	4.12	1.65	1.50
9	f	1601	ADP	PA-O1A	4.12	1.65	1.50
9	n	1601	ADP	PA-O1A	4.12	1.65	1.50
9	b	1601	ADP	PA-O1A	4.09	1.65	1.50
9	m	1601	ADP	PA-O1A	4.09	1.65	1.50
9	e	1601	ADP	PA-O1A	4.08	1.65	1.50
9	l	1601	ADP	PA-O1A	4.07	1.64	1.50
9	B	601	ADP	PA-O1A	4.07	1.64	1.50
9	M	601	ADP	PA-O1A	4.06	1.64	1.50
9	L	601	ADP	PA-O1A	4.05	1.64	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	p	1601	ADP	PA-O1A	4.02	1.64	1.50
9	J	601	ADP	PA-O1A	4.01	1.64	1.50
9	D	601	ADP	PA-O1A	3.99	1.64	1.50
9	B	601	ADP	PA-O3A	3.93	1.63	1.59
9	f	1601	ADP	C8-N7	3.92	1.39	1.31
9	E	601	ADP	C8-N7	3.88	1.39	1.31
9	A	601	ADP	C8-N7	3.87	1.39	1.31
9	m	1601	ADP	C8-N7	3.82	1.39	1.31
9	J	601	ADP	C8-N7	3.81	1.39	1.31
9	n	1601	ADP	C8-N7	3.80	1.39	1.31
9	B	601	ADP	C8-N7	3.80	1.39	1.31
9	C	1101	ADP	C8-N7	3.80	1.39	1.31
9	F	601	ADP	C8-N7	3.79	1.39	1.31
9	l	1601	ADP	C8-N7	3.79	1.39	1.31
9	e	1601	ADP	C8-N7	3.77	1.38	1.31
9	N	601	ADP	C8-N7	3.77	1.38	1.31
9	M	601	ADP	C8-N7	3.76	1.38	1.31
9	b	1601	ADP	C8-N7	3.75	1.38	1.31
9	G	601	ADP	PA-O3A	3.74	1.63	1.59
9	p	1601	ADP	C8-N7	3.73	1.38	1.31
9	D	601	ADP	C8-N7	3.72	1.38	1.31
9	H	601	ADP	C8-N7	3.72	1.38	1.31
9	h	1601	ADP	C8-N7	3.72	1.38	1.31
9	P	601	ADP	C8-N7	3.71	1.38	1.31
9	k	2101	ADP	C8-N7	3.69	1.38	1.31
9	L	601	ADP	C8-N7	3.67	1.38	1.31
9	G	601	ADP	C8-N7	3.64	1.38	1.31
9	a	1601	ADP	C8-N7	3.63	1.38	1.31
9	g	1601	ADP	C8-N7	3.54	1.38	1.31
9	F	601	ADP	C8-N9	-3.06	1.32	1.37
9	G	601	ADP	PB-O2B	3.06	1.66	1.54
9	g	1601	ADP	C8-N9	-3.05	1.32	1.37
9	g	1601	ADP	PB-O2B	3.04	1.66	1.54
9	B	601	ADP	PB-O2B	3.03	1.66	1.54
9	l	1601	ADP	C8-N9	-3.02	1.32	1.37
9	p	1601	ADP	C8-N9	-2.99	1.32	1.37
9	L	601	ADP	C8-N9	-2.98	1.32	1.37
9	m	1601	ADP	C8-N9	-2.98	1.32	1.37
9	e	1601	ADP	C8-N9	-2.95	1.32	1.37
9	P	601	ADP	C8-N9	-2.95	1.32	1.37
9	G	601	ADP	C8-N9	-2.93	1.32	1.37
9	a	1601	ADP	PB-O2B	2.93	1.65	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	m	1601	ADP	PB-O2B	2.91	1.65	1.54
9	L	601	ADP	PB-O2B	2.90	1.65	1.54
9	H	601	ADP	C8-N9	-2.89	1.32	1.37
9	e	1601	ADP	PB-O2B	2.89	1.65	1.54
9	k	2101	ADP	PB-O2B	2.88	1.65	1.54
9	n	1601	ADP	C8-N9	-2.88	1.32	1.37
9	l	1601	ADP	PB-O2B	2.88	1.65	1.54
9	B	601	ADP	C8-N9	-2.87	1.32	1.37
9	h	1601	ADP	C8-N9	-2.87	1.32	1.37
9	F	601	ADP	PB-O2B	2.84	1.65	1.54
9	C	1101	ADP	C8-N9	-2.83	1.32	1.37
9	D	601	ADP	C8-N9	-2.83	1.32	1.37
9	N	601	ADP	C8-N9	-2.82	1.32	1.37
9	E	601	ADP	PB-O2B	2.81	1.65	1.54
9	M	601	ADP	PB-O2B	2.81	1.65	1.54
9	H	601	ADP	PB-O2B	2.80	1.65	1.54
9	p	1601	ADP	PB-O2B	2.80	1.65	1.54
9	N	601	ADP	PB-O2B	2.78	1.65	1.54
9	n	1601	ADP	PB-O2B	2.78	1.65	1.54
9	P	601	ADP	PB-O2B	2.78	1.65	1.54
9	b	1601	ADP	C8-N9	-2.77	1.32	1.37
9	f	1601	ADP	PB-O2B	2.76	1.65	1.54
9	a	1601	ADP	C8-N9	-2.76	1.32	1.37
9	k	2101	ADP	C8-N9	-2.75	1.32	1.37
9	J	601	ADP	PB-O2B	2.75	1.65	1.54
9	D	601	ADP	PB-O2B	2.72	1.64	1.54
9	E	601	ADP	C8-N9	-2.71	1.32	1.37
9	b	1601	ADP	PB-O2B	2.70	1.64	1.54
9	M	601	ADP	C8-N9	-2.70	1.33	1.37
9	h	1601	ADP	PB-O2B	2.69	1.64	1.54
9	A	601	ADP	C8-N9	-2.67	1.33	1.37
9	A	601	ADP	PB-O2B	2.67	1.64	1.54
9	C	1101	ADP	PB-O2B	2.62	1.64	1.54
9	f	1601	ADP	C8-N9	-2.60	1.33	1.37
9	H	601	ADP	C5-C4	-2.60	1.34	1.39
9	J	601	ADP	C8-N9	-2.59	1.33	1.37
9	F	601	ADP	C5-C4	-2.57	1.34	1.39
9	e	1601	ADP	C5-C4	-2.50	1.34	1.39
9	g	1601	ADP	C5-C4	-2.49	1.34	1.39
9	a	1601	ADP	C5-C4	-2.45	1.34	1.39
9	C	1101	ADP	C5-C4	-2.43	1.34	1.39
9	E	601	ADP	C5-C4	-2.42	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	J	601	ADP	C5-C4	-2.41	1.34	1.39
9	P	601	ADP	C5-C4	-2.39	1.34	1.39
9	p	1601	ADP	PB-O3B	-2.38	1.46	1.54
9	E	601	ADP	PB-O3B	-2.37	1.46	1.54
9	h	1601	ADP	C5-C4	-2.37	1.34	1.39
9	D	601	ADP	C5-C4	-2.36	1.34	1.39
9	p	1601	ADP	C5-C4	-2.35	1.34	1.39
9	B	601	ADP	C5-C4	-2.35	1.34	1.39
9	l	1601	ADP	C5-C4	-2.32	1.34	1.39
9	m	1601	ADP	C5-C4	-2.32	1.34	1.39
9	A	601	ADP	PB-O3B	-2.32	1.46	1.54
9	l	1601	ADP	PB-O3B	-2.32	1.46	1.54
9	M	601	ADP	C5-C4	-2.30	1.35	1.39
9	k	2101	ADP	PB-O3B	-2.30	1.46	1.54
9	b	1601	ADP	C5-C4	-2.30	1.35	1.39
9	k	2101	ADP	C5-C4	-2.30	1.35	1.39
9	n	1601	ADP	C5-C4	-2.29	1.35	1.39
9	G	601	ADP	C5-C4	-2.29	1.35	1.39
9	L	601	ADP	PB-O3B	-2.28	1.46	1.54
9	B	601	ADP	PB-O3B	-2.28	1.46	1.54
9	N	601	ADP	C5-C4	-2.27	1.35	1.39
9	G	601	ADP	PB-O3B	-2.27	1.46	1.54
9	m	1601	ADP	PB-O3B	-2.26	1.46	1.54
9	J	601	ADP	PB-O3B	-2.26	1.46	1.54
9	H	601	ADP	PB-O3B	-2.25	1.46	1.54
9	F	601	ADP	PB-O3B	-2.25	1.46	1.54
9	C	1101	ADP	PB-O3B	-2.23	1.46	1.54
9	e	1601	ADP	PB-O3B	-2.22	1.46	1.54
9	g	1601	ADP	PB-O3B	-2.21	1.46	1.54
9	P	601	ADP	PB-O3B	-2.21	1.46	1.54
9	h	1601	ADP	PB-O3B	-2.20	1.46	1.54
9	M	601	ADP	PB-O3B	-2.19	1.46	1.54
9	a	1601	ADP	PB-O3B	-2.19	1.46	1.54
9	L	601	ADP	C5-C4	-2.18	1.35	1.39
9	b	1601	ADP	PB-O3B	-2.16	1.46	1.54
9	D	601	ADP	PB-O3B	-2.16	1.46	1.54
9	A	601	ADP	C5-C4	-2.13	1.35	1.39
9	f	1601	ADP	PB-O3B	-2.11	1.47	1.54
9	N	601	ADP	PB-O3B	-2.10	1.47	1.54
9	B	601	ADP	PA-O2A	-2.08	1.45	1.55
9	M	601	ADP	PA-O2A	-2.04	1.45	1.55

All (364) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	J	601	ADP	N3-C2-N1	-6.09	119.36	128.58
9	H	601	ADP	N3-C2-N1	-5.95	119.58	128.58
9	l	1601	ADP	N3-C2-N1	-5.83	119.76	128.58
9	a	1601	ADP	N3-C2-N1	-5.77	119.86	128.58
9	P	601	ADP	N3-C2-N1	-5.70	119.96	128.58
9	E	601	ADP	N3-C2-N1	-5.69	119.97	128.58
9	C	1101	ADP	N3-C2-N1	-5.68	119.99	128.58
9	M	601	ADP	N3-C2-N1	-5.68	119.99	128.58
9	k	2101	ADP	N3-C2-N1	-5.65	120.03	128.58
9	L	601	ADP	N3-C2-N1	-5.64	120.04	128.58
9	p	1601	ADP	N3-C2-N1	-5.63	120.06	128.58
9	F	601	ADP	N3-C2-N1	-5.63	120.06	128.58
9	D	601	ADP	N3-C2-N1	-5.62	120.07	128.58
9	h	1601	ADP	N3-C2-N1	-5.60	120.10	128.58
9	B	601	ADP	N3-C2-N1	-5.58	120.14	128.58
9	m	1601	ADP	N3-C2-N1	-5.57	120.14	128.58
9	e	1601	ADP	N3-C2-N1	-5.55	120.17	128.58
9	A	601	ADP	N3-C2-N1	-5.52	120.23	128.58
9	a	1601	ADP	C5-C4-N3	-5.50	119.14	126.72
9	N	601	ADP	N3-C2-N1	-5.48	120.28	128.58
9	f	1601	ADP	N3-C2-N1	-5.43	120.36	128.58
9	n	1601	ADP	N3-C2-N1	-5.41	120.39	128.58
9	L	601	ADP	C5-C4-N3	-5.36	119.34	126.72
9	D	601	ADP	C5-C4-N3	-5.35	119.35	126.72
9	G	601	ADP	N3-C2-N1	-5.35	120.49	128.58
9	g	1601	ADP	N3-C2-N1	-5.33	120.52	128.58
9	b	1601	ADP	N3-C2-N1	-5.31	120.54	128.58
9	A	601	ADP	C5-C4-N3	-5.27	119.46	126.72
9	m	1601	ADP	C5-C4-N3	-5.20	119.56	126.72
9	g	1601	ADP	C5-C4-N3	-5.15	119.63	126.72
9	N	601	ADP	C5-C4-N3	-5.14	119.64	126.72
9	C	1101	ADP	C5-C4-N3	-5.13	119.65	126.72
9	B	601	ADP	C5-C4-N3	-5.13	119.65	126.72
9	n	1601	ADP	C5-C4-N3	-5.13	119.66	126.72
9	F	601	ADP	C5-C4-N3	-5.04	119.78	126.72
9	J	601	ADP	C5-C4-N3	-5.03	119.78	126.72
9	M	601	ADP	C5-C4-N3	-5.02	119.81	126.72
9	l	1601	ADP	C5-C4-N3	-5.01	119.82	126.72
9	G	601	ADP	C5-C4-N3	-4.95	119.89	126.72
9	k	2101	ADP	C5-C4-N3	-4.91	119.96	126.72
9	E	601	ADP	C5-C4-N3	-4.81	120.09	126.72
9	p	1601	ADP	C5-C4-N3	-4.80	120.11	126.72
9	f	1601	ADP	C5-C4-N3	-4.77	120.15	126.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	h	1601	ADP	C5-C4-N3	-4.70	120.25	126.72
9	e	1601	ADP	C5-C4-N3	-4.70	120.25	126.72
9	H	601	ADP	C5-C4-N3	-4.68	120.27	126.72
9	b	1601	ADP	C5-C4-N3	-4.57	120.42	126.72
9	P	601	ADP	C5-C4-N3	-4.54	120.46	126.72
9	H	601	ADP	N9-C8-N7	-4.31	107.83	113.94
9	l	1601	ADP	N9-C8-N7	-4.25	107.91	113.94
9	D	601	ADP	O4'-C4'-C5'	4.23	122.90	109.33
9	e	1601	ADP	N9-C8-N7	-4.22	107.94	113.94
9	F	601	ADP	N9-C8-N7	-4.19	108.00	113.94
9	E	601	ADP	O3'-C3'-C4'	4.16	123.03	111.08
9	p	1601	ADP	N9-C8-N7	-4.12	108.08	113.94
9	n	1601	ADP	N9-C8-N7	-4.12	108.08	113.94
9	D	601	ADP	O5'-C5'-C4'	4.08	122.90	108.99
9	g	1601	ADP	N9-C8-N7	-4.07	108.16	113.94
9	N	601	ADP	N9-C8-N7	-4.05	108.19	113.94
9	m	1601	ADP	N9-C8-N7	-4.04	108.20	113.94
9	a	1601	ADP	O4'-C4'-C5'	4.04	122.28	109.33
9	k	2101	ADP	O4'-C4'-C5'	4.03	122.25	109.33
9	E	601	ADP	N9-C8-N7	-3.99	108.28	113.94
9	P	601	ADP	N9-C8-N7	-3.97	108.30	113.94
9	f	1601	ADP	O4'-C4'-C5'	3.94	121.95	109.33
9	b	1601	ADP	N9-C8-N7	-3.94	108.35	113.94
9	k	2101	ADP	N9-C8-N7	-3.93	108.36	113.94
9	C	1101	ADP	N9-C8-N7	-3.92	108.37	113.94
9	G	601	ADP	N9-C8-N7	-3.91	108.39	113.94
9	f	1601	ADP	O5'-C5'-C4'	3.83	122.05	108.99
9	h	1601	ADP	N9-C8-N7	-3.83	108.50	113.94
9	L	601	ADP	N9-C8-N7	-3.80	108.54	113.94
9	M	601	ADP	O4'-C4'-C5'	3.78	121.45	109.33
9	B	601	ADP	N9-C8-N7	-3.77	108.59	113.94
9	f	1601	ADP	N9-C8-N7	-3.76	108.61	113.94
9	D	601	ADP	N9-C8-N7	-3.73	108.64	113.94
9	J	601	ADP	N9-C8-N7	-3.71	108.67	113.94
9	g	1601	ADP	O4'-C4'-C5'	3.68	121.12	109.33
9	G	601	ADP	O4'-C4'-C5'	3.67	121.10	109.33
9	A	601	ADP	O3'-C3'-C4'	3.67	121.62	111.08
9	J	601	ADP	O4'-C4'-C5'	3.66	121.07	109.33
9	f	1601	ADP	O3'-C3'-C4'	3.66	121.60	111.08
9	B	601	ADP	O3'-C3'-C4'	3.66	121.59	111.08
9	a	1601	ADP	N9-C8-N7	-3.64	108.77	113.94
9	J	601	ADP	C2-N3-C4	3.63	120.69	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	M	601	ADP	N9-C8-N7	-3.61	108.81	113.94
9	n	1601	ADP	O4'-C4'-C5'	3.61	120.89	109.33
9	N	601	ADP	O3'-C3'-C4'	3.59	121.39	111.08
9	D	601	ADP	C2-N3-C4	3.58	120.57	111.83
9	a	1601	ADP	N3-C4-N9	3.56	133.22	127.17
9	A	601	ADP	N9-C8-N7	-3.53	108.93	113.94
9	J	601	ADP	O5'-C5'-C4'	3.53	121.01	108.99
9	m	1601	ADP	O3'-C3'-C4'	3.53	121.22	111.08
9	a	1601	ADP	C2-N3-C4	3.51	120.41	111.83
9	B	601	ADP	O5'-C5'-C4'	3.50	120.90	108.99
9	C	1101	ADP	C2-N3-C4	3.49	120.36	111.83
9	F	601	ADP	O5'-C5'-C4'	3.48	120.85	108.99
9	l	1601	ADP	C2-N3-C4	3.48	120.33	111.83
9	m	1601	ADP	C2-N3-C4	3.47	120.31	111.83
9	L	601	ADP	N3-C4-N9	3.47	133.06	127.17
9	H	601	ADP	C2-N3-C4	3.46	120.29	111.83
9	b	1601	ADP	O5'-C5'-C4'	3.46	120.78	108.99
9	L	601	ADP	C2-N3-C4	3.46	120.27	111.83
9	g	1601	ADP	N3-C4-N9	3.45	133.04	127.17
9	l	1601	ADP	O4'-C4'-C5'	3.45	120.37	109.33
9	A	601	ADP	O4'-C4'-C5'	3.44	120.37	109.33
9	A	601	ADP	C2-N3-C4	3.44	120.23	111.83
9	N	601	ADP	C2-N3-C4	3.44	120.23	111.83
9	n	1601	ADP	C2-N3-C4	3.43	120.20	111.83
9	B	601	ADP	O4'-C4'-C5'	3.41	120.27	109.33
9	H	601	ADP	O3'-C3'-C4'	3.41	120.88	111.08
9	p	1601	ADP	O3'-C3'-C4'	3.41	120.87	111.08
9	G	601	ADP	N3-C4-N9	3.39	132.93	127.17
9	b	1601	ADP	O4'-C4'-C5'	3.38	120.16	109.33
9	M	601	ADP	C2-N3-C4	3.38	120.07	111.83
9	M	601	ADP	O3'-C3'-C4'	3.37	120.77	111.08
9	p	1601	ADP	C2-N3-C4	3.37	120.07	111.83
9	F	601	ADP	C2-N3-C4	3.37	120.06	111.83
9	B	601	ADP	C2-N3-C4	3.37	120.06	111.83
9	E	601	ADP	C2-N3-C4	3.35	120.01	111.83
9	m	1601	ADP	O4'-C4'-C5'	3.30	119.92	109.33
9	k	2101	ADP	C2-N3-C4	3.28	119.84	111.83
9	e	1601	ADP	C2-N3-C4	3.26	119.80	111.83
9	N	601	ADP	O4'-C4'-C5'	3.25	119.74	109.33
9	E	601	ADP	O4'-C4'-C5'	3.23	119.67	109.33
9	g	1601	ADP	C2-N3-C4	3.22	119.70	111.83
9	p	1601	ADP	O3'-C3'-C2'	3.22	122.13	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	h	1601	ADP	C2-N3-C4	3.21	119.68	111.83
9	A	601	ADP	O2'-C2'-C1'	3.21	121.15	110.10
9	B	601	ADP	N3-C4-N9	3.20	132.62	127.17
9	f	1601	ADP	C2-N3-C4	3.20	119.65	111.83
9	F	601	ADP	O2'-C2'-C1'	3.20	121.12	110.10
9	k	2101	ADP	O3'-C3'-C4'	3.19	120.26	111.08
9	l	1601	ADP	O3'-C3'-C4'	3.19	120.25	111.08
9	l	1601	ADP	N3-C4-N9	3.19	132.60	127.17
9	e	1601	ADP	O4'-C4'-C5'	3.19	119.56	109.33
9	G	601	ADP	C2-N3-C4	3.18	119.60	111.83
9	A	601	ADP	O5'-C5'-C4'	3.18	119.81	108.99
9	P	601	ADP	C2-N3-C4	3.17	119.57	111.83
9	D	601	ADP	N3-C4-N9	3.17	132.56	127.17
9	N	601	ADP	O5'-C5'-C4'	3.15	119.73	108.99
9	L	601	ADP	O4'-C4'-C5'	3.14	119.38	109.33
9	J	601	ADP	O3'-C3'-C4'	3.13	120.08	111.08
9	F	601	ADP	O4'-C4'-C5'	3.13	119.35	109.33
9	P	601	ADP	O3'-C3'-C4'	3.12	120.05	111.08
9	e	1601	ADP	O3'-C3'-C4'	3.11	120.03	111.08
9	C	1101	ADP	O4'-C4'-C5'	3.11	119.28	109.33
9	m	1601	ADP	N3-C4-N9	3.10	132.44	127.17
9	b	1601	ADP	O3'-C3'-C4'	3.09	119.95	111.08
9	M	601	ADP	O5'-C5'-C4'	3.09	119.50	108.99
9	N	601	ADP	C5-N7-C8	3.08	108.29	103.45
9	m	1601	ADP	C5-N7-C8	3.05	108.25	103.45
9	n	1601	ADP	N3-C4-N9	3.05	132.36	127.17
9	F	601	ADP	C5-N7-C8	3.05	108.25	103.45
9	J	601	ADP	N3-C4-N9	3.05	132.36	127.17
9	l	1601	ADP	O5'-C5'-C4'	3.05	119.37	108.99
9	n	1601	ADP	O3'-C3'-C2'	3.05	121.59	111.82
9	n	1601	ADP	C5-N7-C8	3.05	108.24	103.45
9	C	1101	ADP	N3-C4-N9	3.04	132.34	127.17
9	l	1601	ADP	C5-N7-C8	3.04	108.22	103.45
9	k	2101	ADP	N3-C4-N9	3.02	132.31	127.17
9	n	1601	ADP	O3'-C3'-C4'	3.02	119.77	111.08
9	A	601	ADP	N3-C4-N9	3.02	132.31	127.17
9	h	1601	ADP	O3'-C3'-C4'	3.02	119.75	111.08
9	e	1601	ADP	O2'-C2'-C1'	3.02	120.49	110.10
9	N	601	ADP	N3-C4-N9	3.01	132.28	127.17
9	E	601	ADP	O3'-C3'-C2'	3.00	121.43	111.82
9	p	1601	ADP	O4'-C4'-C3'	-3.00	99.20	105.15
9	b	1601	ADP	C2-N3-C4	2.99	119.12	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	b	1601	ADP	N3-C4-N9	2.98	132.24	127.17
9	B	601	ADP	O2'-C2'-C1'	2.98	120.36	110.10
9	k	2101	ADP	O2'-C2'-C1'	2.97	120.33	110.10
9	F	601	ADP	N3-C4-N9	2.96	132.21	127.17
9	G	601	ADP	O2'-C2'-C1'	2.96	120.31	110.10
9	M	601	ADP	N3-C4-N9	2.96	132.19	127.17
9	P	601	ADP	N3-C4-N9	2.95	132.18	127.17
9	f	1601	ADP	O4'-C1'-N9	2.93	113.72	108.09
9	p	1601	ADP	C5-N7-C8	2.92	108.05	103.45
9	H	601	ADP	C5-N7-C8	2.91	108.03	103.45
9	h	1601	ADP	N3-C4-N9	2.91	132.12	127.17
9	l	1601	ADP	O2'-C2'-C3'	2.90	121.11	111.82
9	P	601	ADP	O4'-C4'-C3'	-2.90	99.40	105.15
9	E	601	ADP	C5-N7-C8	2.90	108.00	103.45
9	C	1101	ADP	C5-N7-C8	2.89	107.99	103.45
9	a	1601	ADP	O5'-C5'-C4'	2.88	118.80	108.99
9	H	601	ADP	N3-C4-N9	2.88	132.06	127.17
9	g	1601	ADP	O2'-C2'-C1'	2.88	120.01	110.10
9	e	1601	ADP	C5-N7-C8	2.87	107.97	103.45
9	N	601	ADP	O2'-C2'-C1'	2.87	119.99	110.10
9	g	1601	ADP	C5-N7-C8	2.86	107.95	103.45
9	e	1601	ADP	N3-C4-N9	2.86	132.03	127.17
9	m	1601	ADP	O3'-C3'-C2'	2.86	120.97	111.82
9	f	1601	ADP	N3-C4-N9	2.85	132.02	127.17
9	p	1601	ADP	N3-C4-N9	2.85	132.02	127.17
9	L	601	ADP	O2'-C2'-C1'	2.85	119.91	110.10
9	L	601	ADP	C5-N7-C8	2.85	107.92	103.45
9	D	601	ADP	C5-N7-C8	2.84	107.92	103.45
9	E	601	ADP	O2'-C2'-C1'	2.84	119.88	110.10
9	D	601	ADP	O3'-C3'-C4'	2.83	119.22	111.08
9	h	1601	ADP	O4'-C4'-C5'	2.83	118.40	109.33
9	k	2101	ADP	C5-N7-C8	2.83	107.89	103.45
9	E	601	ADP	O2'-C2'-C3'	2.82	120.85	111.82
9	L	601	ADP	O5'-C5'-C4'	2.81	118.55	108.99
9	A	601	ADP	C5-N7-C8	2.78	107.82	103.45
9	J	601	ADP	O2'-C2'-C1'	2.77	119.65	110.10
9	l	1601	ADP	O2'-C2'-C1'	2.76	119.62	110.10
9	l	1601	ADP	O3'-C3'-C2'	2.75	120.64	111.82
9	a	1601	ADP	O3'-C3'-C4'	2.75	118.99	111.08
9	a	1601	ADP	C5-N7-C8	2.74	107.76	103.45
9	L	601	ADP	O3'-C3'-C4'	2.72	118.89	111.08
9	L	601	ADP	O2'-C2'-C3'	2.71	120.52	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	N	601	ADP	C4-C5-N7	-2.71	107.48	110.58
9	p	1601	ADP	O4'-C4'-C5'	2.70	117.98	109.33
9	M	601	ADP	O3'-C3'-C2'	2.70	120.47	111.82
9	N	601	ADP	O4'-C1'-N9	2.70	113.28	108.09
9	h	1601	ADP	O3'-C3'-C2'	2.70	120.47	111.82
9	G	601	ADP	O3'-C3'-C4'	2.69	118.82	111.08
9	E	601	ADP	N3-C4-N9	2.69	131.75	127.17
9	B	601	ADP	C5-N7-C8	2.69	107.68	103.45
9	k	2101	ADP	C4'-O4'-C1'	-2.69	103.53	109.47
9	F	601	ADP	O2'-C2'-C3'	2.69	120.44	111.82
9	f	1601	ADP	O3'-C3'-C2'	2.68	120.42	111.82
9	J	601	ADP	O2'-C2'-C3'	2.68	120.41	111.82
9	b	1601	ADP	O4'-C4'-C3'	-2.68	99.84	105.15
9	N	601	ADP	O3'-C3'-C2'	2.67	120.38	111.82
9	n	1601	ADP	C4-C5-N7	-2.66	107.53	110.58
9	f	1601	ADP	C5-N7-C8	2.66	107.64	103.45
9	h	1601	ADP	O4'-C4'-C3'	-2.66	99.87	105.15
9	e	1601	ADP	O3'-C3'-C2'	2.66	120.33	111.82
9	H	601	ADP	C4-N9-C8	2.64	108.51	105.74
9	h	1601	ADP	C5-N7-C8	2.64	107.60	103.45
9	m	1601	ADP	C4-C5-N7	-2.63	107.57	110.58
9	l	1601	ADP	C4-N9-C8	2.63	108.50	105.74
9	G	601	ADP	C5-N7-C8	2.62	107.57	103.45
9	G	601	ADP	O4'-C4'-C3'	-2.62	99.96	105.15
9	m	1601	ADP	O5'-C5'-C4'	2.61	117.88	108.99
9	J	601	ADP	C5-N7-C8	2.61	107.55	103.45
9	H	601	ADP	O2'-C2'-C1'	2.61	119.09	110.10
9	P	601	ADP	C5-N7-C8	2.61	107.55	103.45
9	g	1601	ADP	O3'-C3'-C4'	2.60	118.55	111.08
9	M	601	ADP	C5-N7-C8	2.60	107.53	103.45
9	P	601	ADP	O2'-C2'-C1'	2.59	119.04	110.10
9	b	1601	ADP	C5-N7-C8	2.59	107.52	103.45
9	p	1601	ADP	C4-C5-N7	-2.58	107.63	110.58
9	C	1101	ADP	O3'-C3'-C4'	2.57	118.47	111.08
9	F	601	ADP	C4-C5-N7	-2.57	107.64	110.58
9	f	1601	ADP	O2'-C2'-C1'	2.57	118.94	110.10
9	b	1601	ADP	O3'-C3'-C2'	2.56	120.03	111.82
9	P	601	ADP	O4'-C4'-C5'	2.56	117.53	109.33
9	e	1601	ADP	C4-N9-C8	2.55	108.42	105.74
9	A	601	ADP	O2'-C2'-C3'	2.55	120.00	111.82
9	n	1601	ADP	O2'-C2'-C1'	2.55	118.88	110.10
9	g	1601	ADP	C2'-C1'-N9	-2.54	107.00	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	a	1601	ADP	O2'-C2'-C1'	2.54	118.83	110.10
9	P	601	ADP	O3'-C3'-C2'	2.53	119.92	111.82
9	b	1601	ADP	O2'-C2'-C3'	2.52	119.89	111.82
9	a	1601	ADP	C6-C5-C4	2.52	120.61	117.18
9	P	601	ADP	O5'-C5'-C4'	2.50	117.52	108.99
9	G	601	ADP	C4-N9-C8	2.50	108.36	105.74
9	p	1601	ADP	C4-N9-C8	2.50	108.36	105.74
9	H	601	ADP	O3'-C3'-C2'	2.50	119.82	111.82
9	g	1601	ADP	C4-N9-C8	2.49	108.35	105.74
9	P	601	ADP	C4-N9-C8	2.48	108.35	105.74
9	C	1101	ADP	O3'-C3'-C2'	2.48	119.76	111.82
9	E	601	ADP	C4-C5-N7	-2.46	107.77	110.58
9	k	2101	ADP	O3'-C3'-C2'	2.45	119.68	111.82
9	g	1601	ADP	C6-C5-C4	2.45	120.52	117.18
9	D	601	ADP	C4-C5-N7	-2.45	107.78	110.58
9	l	1601	ADP	C4-C5-N7	-2.44	107.79	110.58
9	e	1601	ADP	O2'-C2'-C3'	2.43	119.60	111.82
9	A	601	ADP	C4-C5-N7	-2.43	107.81	110.58
9	C	1101	ADP	C4-C5-N7	-2.42	107.81	110.58
9	g	1601	ADP	O3'-C3'-C2'	2.42	119.59	111.82
9	b	1601	ADP	C4-N9-C8	2.42	108.28	105.74
9	L	601	ADP	C6-C5-C4	2.42	120.48	117.18
9	J	601	ADP	O3'-C3'-C2'	2.42	119.57	111.82
9	G	601	ADP	C2'-C1'-N9	-2.39	107.36	113.30
9	D	601	ADP	O2'-C2'-C1'	2.39	118.33	110.10
9	p	1601	ADP	O5'-C5'-C4'	2.39	117.13	108.99
9	G	601	ADP	C6-C5-C4	2.38	120.43	117.18
9	a	1601	ADP	O2'-C2'-C3'	2.37	119.42	111.82
9	G	601	ADP	O5'-C5'-C4'	2.37	117.07	108.99
9	a	1601	ADP	O3'-C3'-C2'	2.37	119.41	111.82
9	J	601	ADP	O4'-C4'-C3'	-2.36	100.47	105.15
9	m	1601	ADP	O2'-C2'-C1'	2.35	118.21	110.10
9	h	1601	ADP	O2'-C2'-C1'	2.35	118.20	110.10
9	n	1601	ADP	O5'-C5'-C4'	2.35	116.98	108.99
9	b	1601	ADP	C6-C5-C4	2.34	120.37	117.18
9	e	1601	ADP	O5'-C5'-C4'	2.33	116.94	108.99
9	C	1101	ADP	O2'-C2'-C1'	2.32	118.10	110.10
9	D	601	ADP	O2'-C2'-C3'	2.31	119.23	111.82
9	n	1601	ADP	C4-N9-C8	2.30	108.16	105.74
9	H	601	ADP	O4'-C4'-C3'	-2.30	100.58	105.15
9	e	1601	ADP	C4-C5-N7	-2.30	107.95	110.58
9	b	1601	ADP	O2'-C2'-C1'	2.30	118.02	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	H	601	ADP	C4-C5-N7	-2.29	107.96	110.58
9	L	601	ADP	O3'-C3'-C2'	2.29	119.15	111.82
9	g	1601	ADP	O4'-C4'-C3'	-2.29	100.61	105.15
9	n	1601	ADP	O3B-PB-O3A	2.28	112.29	104.64
9	g	1601	ADP	O5'-C5'-C4'	2.27	116.73	108.99
9	B	601	ADP	C6-C5-C4	2.27	120.28	117.18
9	A	601	ADP	O3'-C3'-C2'	2.27	119.09	111.82
9	f	1601	ADP	C4-C5-N7	-2.26	108.00	110.58
9	L	601	ADP	C4-C5-N7	-2.26	108.00	110.58
9	E	601	ADP	O5'-C5'-C4'	2.26	116.67	108.99
9	h	1601	ADP	O5'-C5'-C4'	2.25	116.66	108.99
9	D	601	ADP	O3'-C3'-C2'	2.25	119.02	111.82
9	F	601	ADP	C4-N9-C8	2.25	108.10	105.74
9	k	2101	ADP	C4-C5-N7	-2.24	108.02	110.58
9	H	601	ADP	O2'-C2'-C3'	2.24	119.00	111.82
9	F	601	ADP	C6-C5-C4	2.23	120.23	117.18
9	H	601	ADP	O4'-C4'-C5'	2.23	116.47	109.33
9	k	2101	ADP	C6-C5-C4	2.23	120.22	117.18
9	l	1601	ADP	C3'-C2'-C1'	2.22	105.67	101.46
9	C	1101	ADP	O2B-PB-O3A	2.22	112.08	104.64
9	A	601	ADP	C5-C4-N9	2.22	108.23	105.81
9	P	601	ADP	O2'-C2'-C3'	2.21	118.92	111.82
9	F	601	ADP	O3'-C3'-C4'	2.21	117.44	111.08
9	p	1601	ADP	O2'-C2'-C3'	2.21	118.90	111.82
9	N	601	ADP	O2'-C2'-C3'	2.19	118.84	111.82
9	m	1601	ADP	C6-C5-C4	2.16	120.13	117.18
9	M	601	ADP	O2'-C2'-C1'	2.16	117.56	110.10
9	G	601	ADP	O3'-C3'-C2'	2.16	118.75	111.82
9	E	601	ADP	C5-C4-N9	2.16	108.16	105.81
9	M	601	ADP	C4-C5-N7	-2.16	108.12	110.58
9	M	601	ADP	C6-C5-C4	2.15	120.11	117.18
9	k	2101	ADP	C4-N9-C8	2.15	108.00	105.74
9	A	601	ADP	C6-C5-C4	2.15	120.11	117.18
9	h	1601	ADP	C4-N9-C8	2.14	107.98	105.74
9	h	1601	ADP	C6-C5-C4	2.14	120.10	117.18
9	m	1601	ADP	C4-N9-C8	2.14	107.98	105.74
9	B	601	ADP	O2'-C2'-C3'	2.13	118.65	111.82
9	N	601	ADP	C4-N9-C8	2.13	107.97	105.74
9	C	1101	ADP	O5'-C5'-C4'	2.13	116.24	108.99
9	f	1601	ADP	C6-C5-C4	2.12	120.07	117.18
9	F	601	ADP	C2'-C3'-C4'	-2.11	98.52	102.61
9	B	601	ADP	C5'-C4'-C3'	2.11	122.79	115.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	G	601	ADP	O2'-C2'-C3'	2.10	118.55	111.82
9	k	2101	ADP	O2'-C2'-C3'	2.10	118.55	111.82
9	D	601	ADP	C5-C4-N9	2.10	108.10	105.81
9	L	601	ADP	C4-N9-C8	2.10	107.94	105.74
9	l	1601	ADP	C6-C5-C4	2.10	120.04	117.18
9	B	601	ADP	C4-C5-N7	-2.09	108.19	110.58
9	f	1601	ADP	C4-N9-C8	2.09	107.93	105.74
9	f	1601	ADP	C5'-C4'-C3'	2.08	122.71	115.21
9	g	1601	ADP	C4-C5-N7	-2.08	108.20	110.58
9	k	2101	ADP	C5'-C4'-C3'	2.07	122.68	115.21
9	N	601	ADP	C5-C4-N9	2.07	108.07	105.81
9	E	601	ADP	O2B-PB-O3A	2.07	111.58	104.64
9	N	601	ADP	O3B-PB-O3A	2.07	111.57	104.64
9	n	1601	ADP	O4'-C1'-N9	2.07	112.06	108.09
9	P	601	ADP	C6-C5-C4	2.06	119.99	117.18
9	n	1601	ADP	C6-C5-C4	2.06	119.99	117.18
9	a	1601	ADP	C5'-C4'-C3'	2.06	122.63	115.21
9	C	1101	ADP	C6-C5-C4	2.05	119.98	117.18
9	h	1601	ADP	O2'-C2'-C3'	2.04	118.37	111.82
9	M	601	ADP	C5'-C4'-C3'	2.03	122.53	115.21
9	C	1101	ADP	C5-C4-N9	2.02	108.02	105.81
9	F	601	ADP	C5-C4-N9	2.02	108.02	105.81
9	C	1101	ADP	O2'-C2'-C3'	2.02	118.29	111.82
9	h	1601	ADP	C4-C5-N7	-2.01	108.28	110.58
9	M	601	ADP	C5-C4-N9	2.01	108.00	105.81
9	m	1601	ADP	C5-C4-N9	2.01	108.00	105.81
9	A	601	ADP	C5'-C4'-C3'	2.00	122.42	115.21

All (34) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
9	A	601	ADP	C3'
9	A	601	ADP	C4'
9	B	601	ADP	C3'
9	B	601	ADP	C4'
9	C	1101	ADP	C3'
9	C	1101	ADP	C4'
9	D	601	ADP	C3'
9	D	601	ADP	C4'
9	E	601	ADP	C4'
9	G	601	ADP	C3'
9	H	601	ADP	C4'

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Mol	Chain	Res	Type	Atom
9	J	601	ADP	C3'
9	J	601	ADP	C4'
9	M	601	ADP	C3'
9	M	601	ADP	C4'
9	N	601	ADP	C2'
9	N	601	ADP	C3'
9	P	601	ADP	C4'
9	a	1601	ADP	C3'
9	a	1601	ADP	C4'
9	b	1601	ADP	C3'
9	b	1601	ADP	C4'
9	e	1601	ADP	C3'
9	e	1601	ADP	C4'
9	f	1601	ADP	C2'
9	f	1601	ADP	C3'
9	g	1601	ADP	C3'
9	h	1601	ADP	C4'
9	k	2101	ADP	C3'
9	k	2101	ADP	C4'
9	m	1601	ADP	C3'
9	m	1601	ADP	C4'
9	n	1601	ADP	C2'
9	p	1601	ADP	C4'

All (129) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
9	A	601	ADP	C5'-O5'-PA-O3A
9	B	601	ADP	PB-O3A-PA-O5'
9	C	1101	ADP	C5'-O5'-PA-O1A
9	C	1101	ADP	C5'-O5'-PA-O3A
9	D	601	ADP	C4'-C5'-O5'-PA
9	E	601	ADP	C5'-O5'-PA-O1A
9	E	601	ADP	C5'-O5'-PA-O2A
9	E	601	ADP	C5'-O5'-PA-O3A
9	F	601	ADP	PA-O3A-PB-O3B
9	F	601	ADP	C5'-O5'-PA-O1A
9	F	601	ADP	C5'-O5'-PA-O2A
9	F	601	ADP	C5'-O5'-PA-O3A
9	F	601	ADP	C2'-C1'-N9-C8
9	G	601	ADP	C5'-O5'-PA-O1A
9	H	601	ADP	O4'-C1'-N9-C8

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Mol	Chain	Res	Type	Atoms
9	H	601	ADP	O4'-C1'-N9-C4
9	J	601	ADP	C5'-O5'-PA-O2A
9	J	601	ADP	C5'-O5'-PA-O3A
9	L	601	ADP	PA-O3A-PB-O2B
9	L	601	ADP	PA-O3A-PB-O3B
9	L	601	ADP	C2'-C1'-N9-C4
9	M	601	ADP	PA-O3A-PB-O2B
9	M	601	ADP	PA-O3A-PB-O3B
9	M	601	ADP	C5'-O5'-PA-O3A
9	N	601	ADP	C5'-O5'-PA-O1A
9	N	601	ADP	C5'-O5'-PA-O3A
9	a	1601	ADP	PA-O3A-PB-O2B
9	a	1601	ADP	PB-O3A-PA-O5'
9	a	1601	ADP	C5'-O5'-PA-O3A
9	b	1601	ADP	PA-O3A-PB-O2B
9	b	1601	ADP	C5'-O5'-PA-O1A
9	b	1601	ADP	C5'-O5'-PA-O3A
9	e	1601	ADP	PA-O3A-PB-O2B
9	f	1601	ADP	PA-O3A-PB-O3B
9	f	1601	ADP	C5'-O5'-PA-O1A
9	f	1601	ADP	C5'-O5'-PA-O3A
9	k	2101	ADP	C3'-C4'-C5'-O5'
9	l	1601	ADP	C5'-O5'-PA-O1A
9	l	1601	ADP	C5'-O5'-PA-O2A
9	l	1601	ADP	C5'-O5'-PA-O3A
9	m	1601	ADP	PB-O3A-PA-O5'
9	m	1601	ADP	C5'-O5'-PA-O1A
9	m	1601	ADP	C5'-O5'-PA-O3A
9	n	1601	ADP	PA-O3A-PB-O3B
9	n	1601	ADP	C5'-O5'-PA-O3A
9	p	1601	ADP	O4'-C4'-C5'-O5'
9	p	1601	ADP	O4'-C1'-N9-C8
9	p	1601	ADP	O4'-C1'-N9-C4
9	e	1601	ADP	C3'-C4'-C5'-O5'
9	m	1601	ADP	C3'-C4'-C5'-O5'
9	p	1601	ADP	C3'-C4'-C5'-O5'
9	L	601	ADP	C2'-C1'-N9-C8
9	C	1101	ADP	C3'-C4'-C5'-O5'
9	e	1601	ADP	O4'-C4'-C5'-O5'
9	g	1601	ADP	O4'-C4'-C5'-O5'
9	g	1601	ADP	C3'-C4'-C5'-O5'
9	F	601	ADP	C2'-C1'-N9-C4

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Mol	Chain	Res	Type	Atoms
9	G	601	ADP	C2'-C1'-N9-C8
9	E	601	ADP	C3'-C4'-C5'-O5'
9	b	1601	ADP	O4'-C4'-C5'-O5'
9	B	601	ADP	O4'-C4'-C5'-O5'
9	k	2101	ADP	O4'-C4'-C5'-O5'
9	G	601	ADP	O4'-C4'-C5'-O5'
9	H	601	ADP	O4'-C4'-C5'-O5'
9	J	601	ADP	O4'-C4'-C5'-O5'
9	L	601	ADP	O4'-C4'-C5'-O5'
9	k	2101	ADP	C4'-C5'-O5'-PA
9	N	601	ADP	C2'-C1'-N9-C8
9	a	1601	ADP	O4'-C4'-C5'-O5'
9	A	601	ADP	O4'-C4'-C5'-O5'
9	B	601	ADP	C4'-C5'-O5'-PA
9	G	601	ADP	C4'-C5'-O5'-PA
9	b	1601	ADP	C4'-C5'-O5'-PA
9	g	1601	ADP	C4'-C5'-O5'-PA
9	C	1101	ADP	PB-O3A-PA-O5'
9	D	601	ADP	PB-O3A-PA-O5'
9	E	601	ADP	PB-O3A-PA-O5'
9	J	601	ADP	PB-O3A-PA-O5'
9	M	601	ADP	PB-O3A-PA-O5'
9	b	1601	ADP	PB-O3A-PA-O5'
9	g	1601	ADP	PB-O3A-PA-O5'
9	a	1601	ADP	C4'-C5'-O5'-PA
9	P	601	ADP	O4'-C1'-N9-C4
9	h	1601	ADP	O4'-C1'-N9-C4
9	D	601	ADP	PA-O3A-PB-O2B
9	H	601	ADP	PA-O3A-PB-O2B
9	e	1601	ADP	PA-O3A-PB-O3B
9	k	2101	ADP	PA-O3A-PB-O3B
9	P	601	ADP	O4'-C1'-N9-C8
9	H	601	ADP	C3'-C4'-C5'-O5'
9	A	601	ADP	C2'-C1'-N9-C8
9	f	1601	ADP	C2'-C1'-N9-C8
9	h	1601	ADP	PB-O3A-PA-O2A
9	A	601	ADP	C4'-C5'-O5'-PA
9	F	601	ADP	C4'-C5'-O5'-PA
9	J	601	ADP	C4'-C5'-O5'-PA
9	m	1601	ADP	C4'-C5'-O5'-PA
9	G	601	ADP	C2'-C1'-N9-C4
9	A	601	ADP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
9	J	601	ADP	C5'-O5'-PA-O1A
9	M	601	ADP	C5'-O5'-PA-O1A
9	a	1601	ADP	C5'-O5'-PA-O1A
9	n	1601	ADP	C5'-O5'-PA-O1A
9	f	1601	ADP	PA-O3A-PB-O1B
9	N	601	ADP	O4'-C4'-C5'-O5'
9	F	601	ADP	PB-O3A-PA-O2A
9	N	601	ADP	C2'-C1'-N9-C4
9	h	1601	ADP	O4'-C1'-N9-C8
9	F	601	ADP	PA-O3A-PB-O1B
9	H	601	ADP	PB-O3A-PA-O2A
9	P	601	ADP	PB-O3A-PA-O2A
9	p	1601	ADP	PB-O3A-PA-O2A
9	A	601	ADP	O4'-C1'-N9-C8
9	A	601	ADP	C2'-C1'-N9-C4
9	b	1601	ADP	C3'-C4'-C5'-O5'
9	b	1601	ADP	PA-O3A-PB-O1B
9	e	1601	ADP	PA-O3A-PB-O1B
9	n	1601	ADP	PA-O3A-PB-O1B
9	a	1601	ADP	PA-O3A-PB-O3B
9	f	1601	ADP	O4'-C1'-N9-C8
9	F	601	ADP	PB-O3A-PA-O1A
9	N	601	ADP	O4'-C1'-N9-C8
9	M	601	ADP	PA-O3A-PB-O1B
9	C	1101	ADP	O4'-C4'-C5'-O5'
9	G	601	ADP	C3'-C4'-C5'-O5'
9	N	601	ADP	C4'-C5'-O5'-PA
9	M	601	ADP	C2'-C1'-N9-C8
9	B	601	ADP	PB-O3A-PA-O2A
9	H	601	ADP	PB-O3A-PA-O1A

There are no ring outliers.

30 monomers are involved in 136 short contacts:

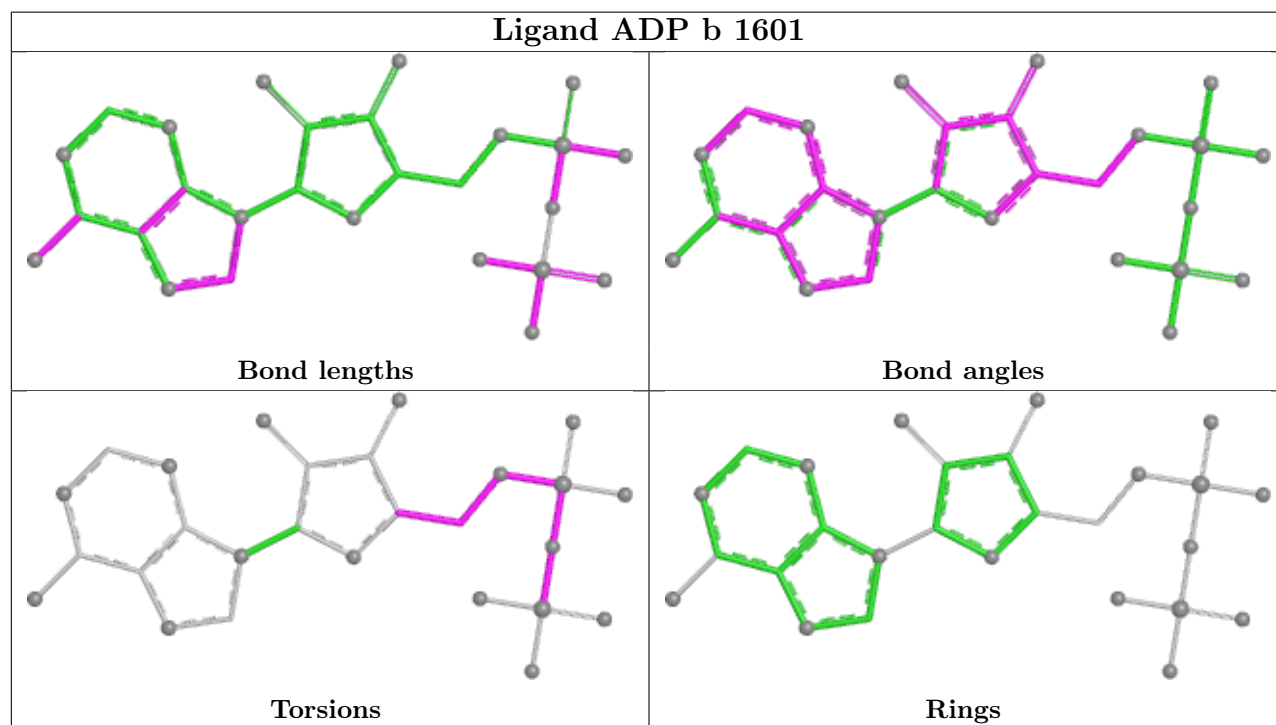
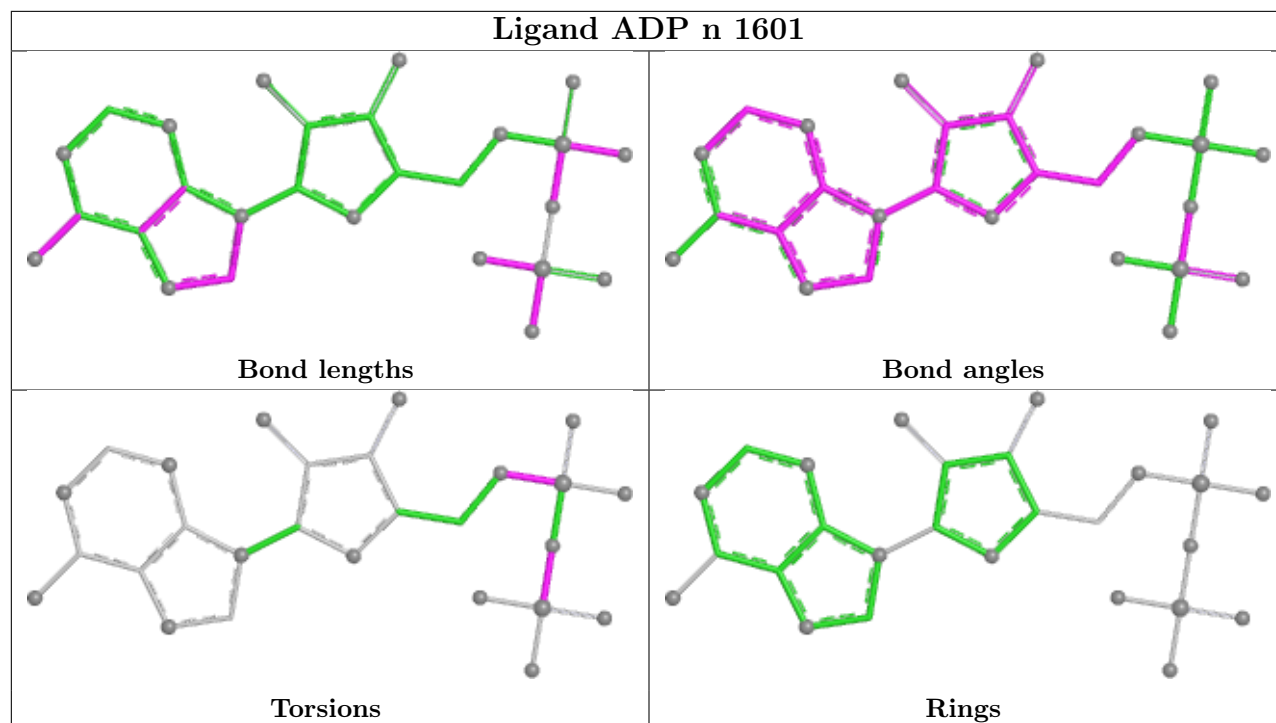
Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	n	1601	ADP	4	0
9	b	1601	ADP	3	0
9	B	601	ADP	8	0
9	g	1601	ADP	8	0
9	e	1601	ADP	3	0
10	C	1102	BEF	3	0
9	f	1601	ADP	6	0

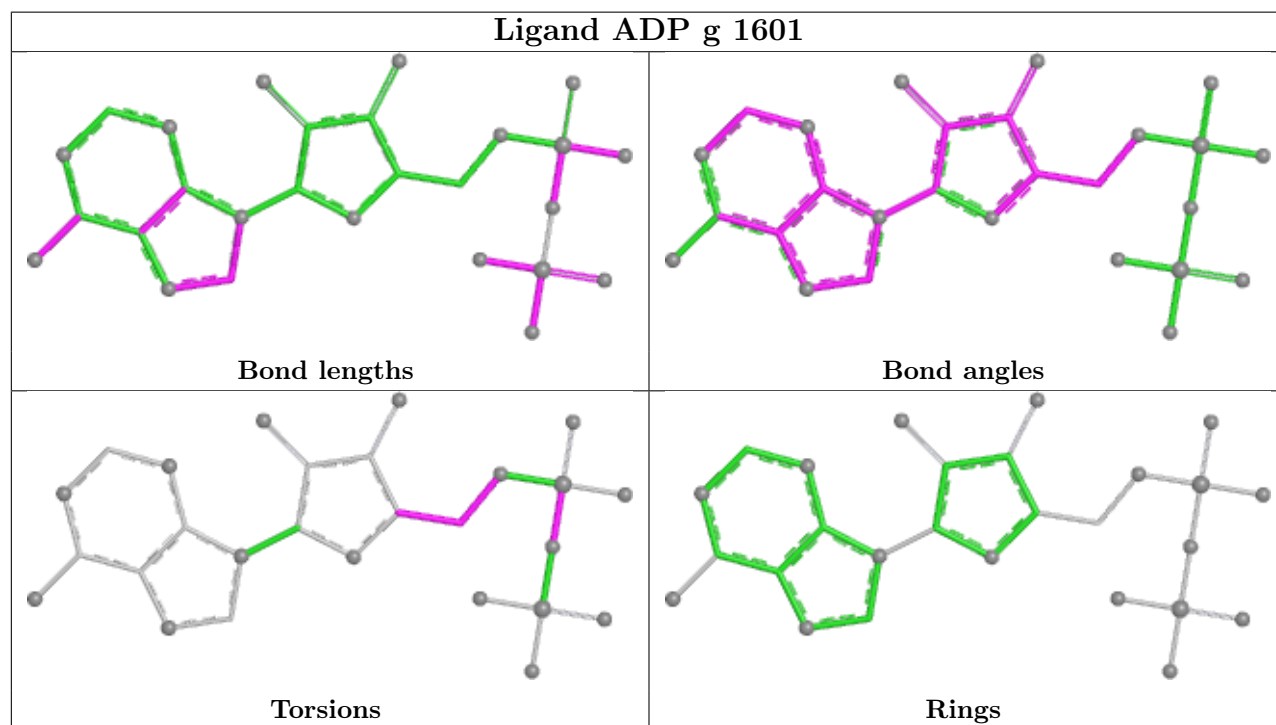
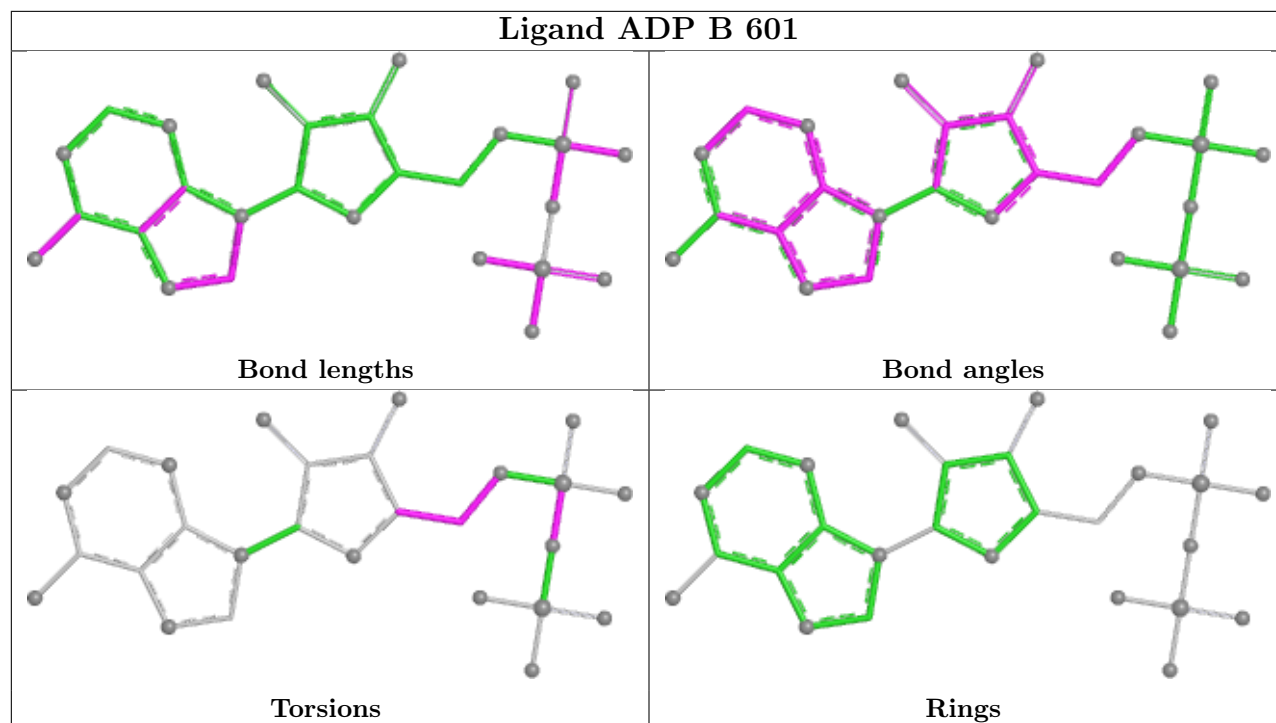
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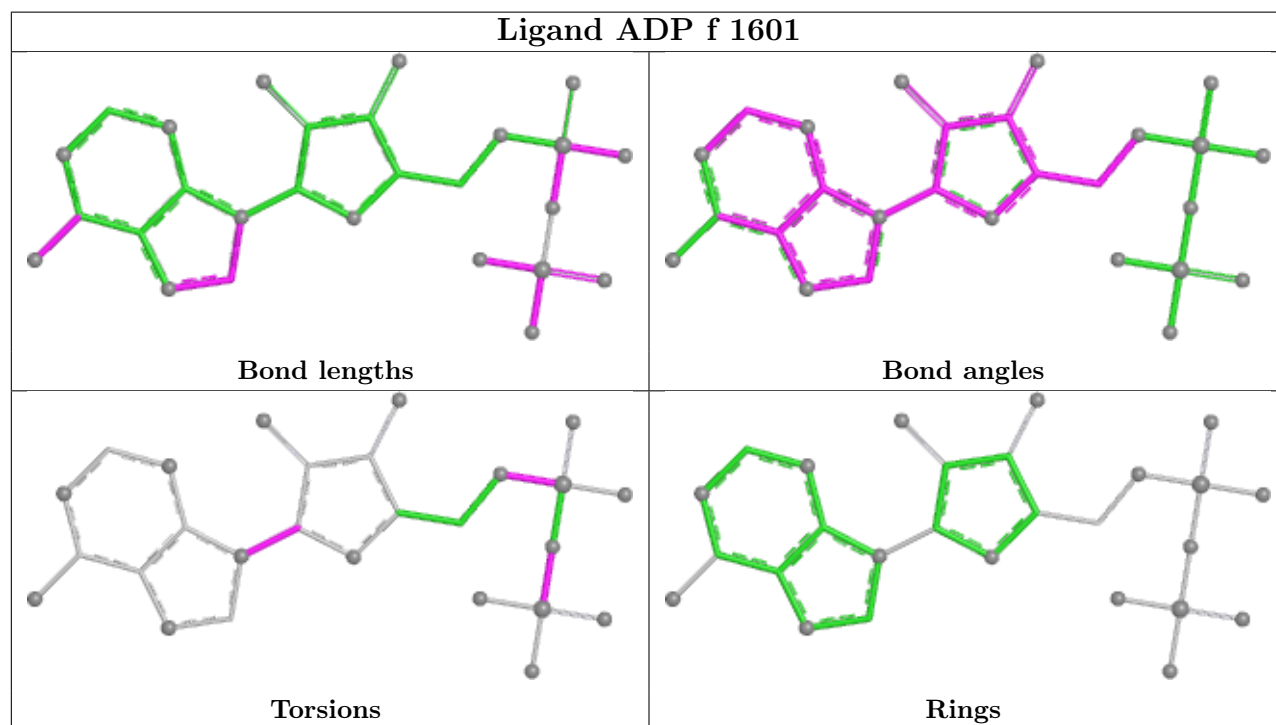
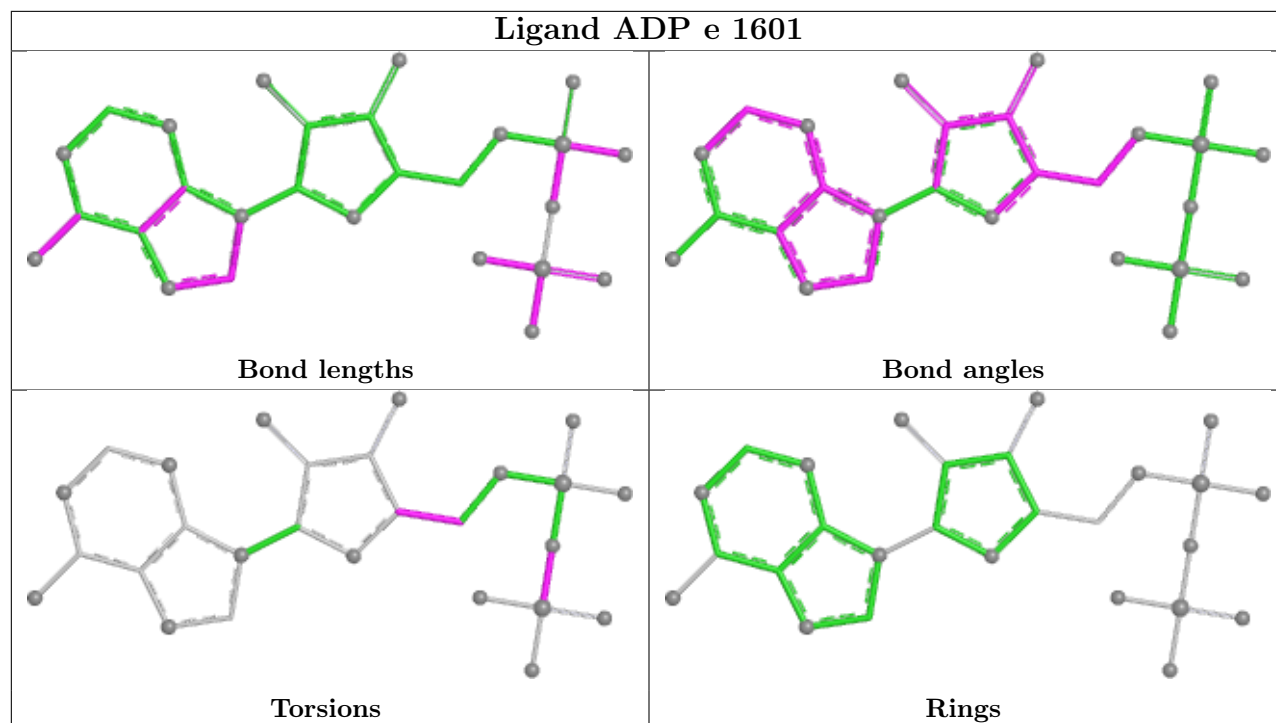
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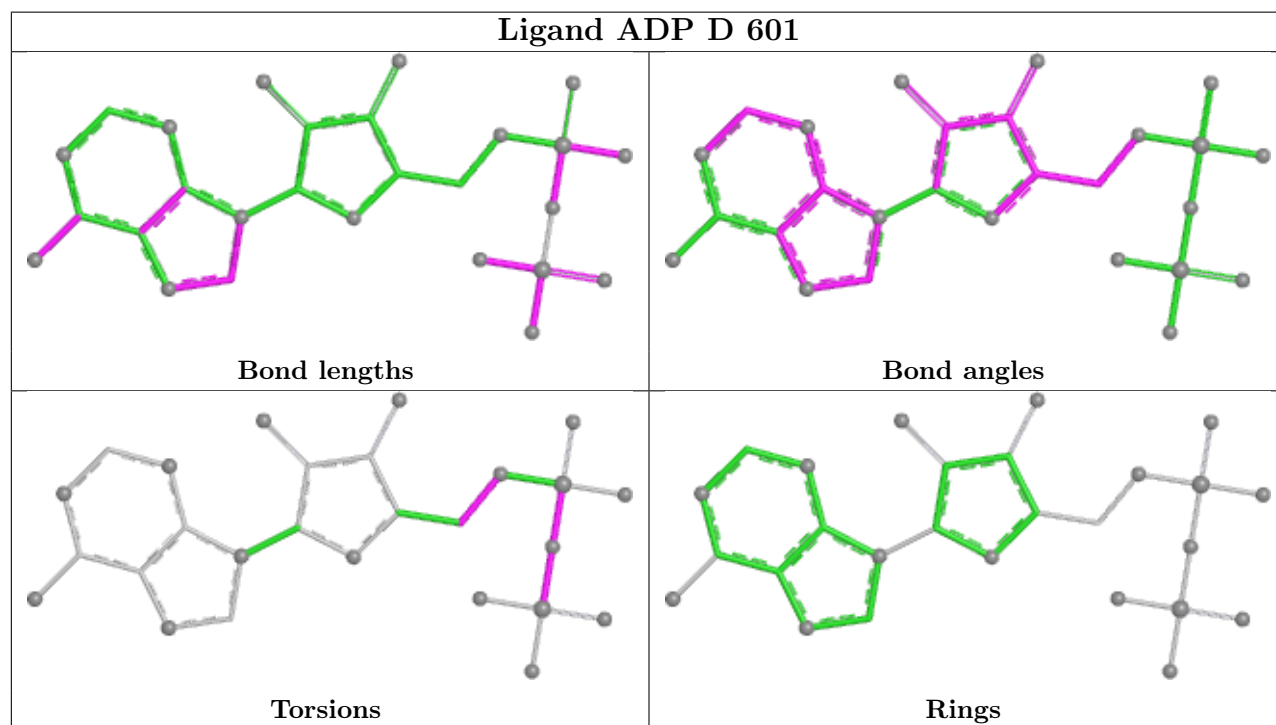
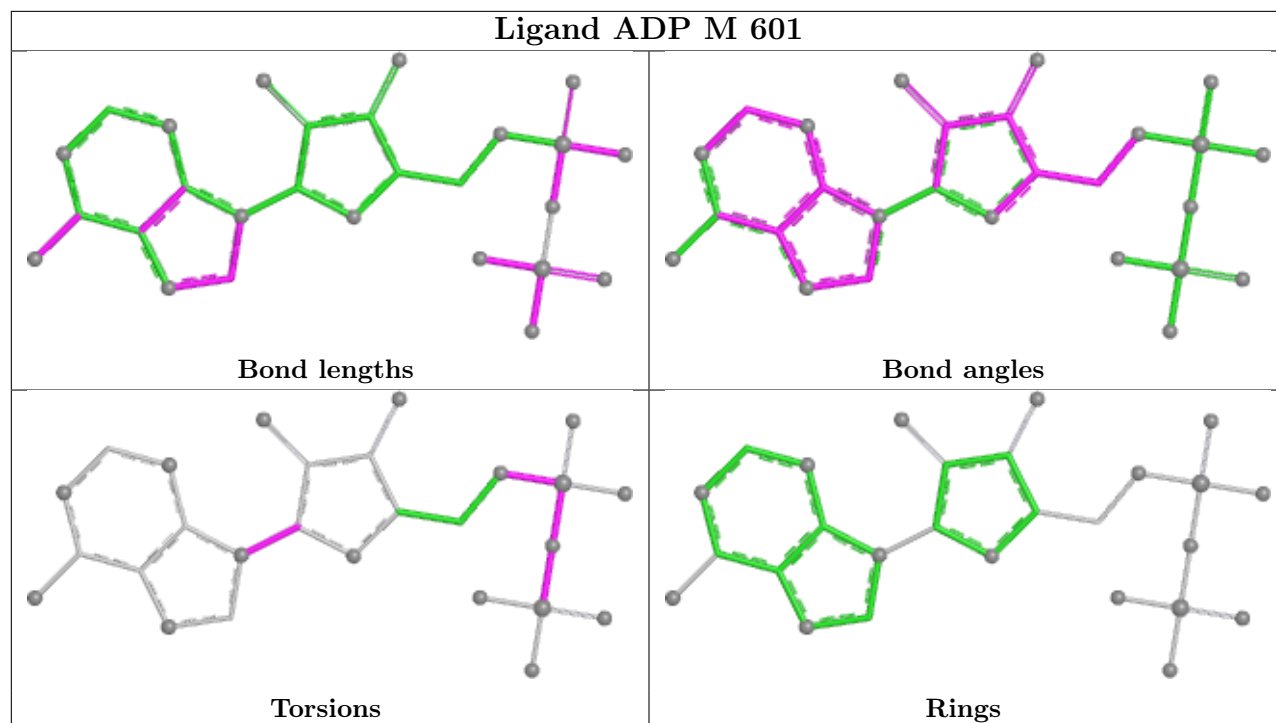
Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	M	601	ADP	6	0
9	D	601	ADP	8	0
9	m	1601	ADP	4	0
10	L	602	BEF	1	0
9	p	1601	ADP	3	0
10	h	1602	BEF	1	0
9	L	601	ADP	7	0
9	H	601	ADP	3	0
9	P	601	ADP	5	0
9	k	2101	ADP	9	0
9	C	1101	ADP	7	0
9	h	1601	ADP	5	0
9	A	601	ADP	3	0
10	N	602	BEF	3	0
9	G	601	ADP	5	0
9	l	1601	ADP	8	0
9	a	1601	ADP	2	0
9	E	601	ADP	2	0
9	J	601	ADP	6	0
9	N	601	ADP	6	0
9	F	601	ADP	6	0
10	F	602	BEF	2	0
11	j	1600	SO4	1	0

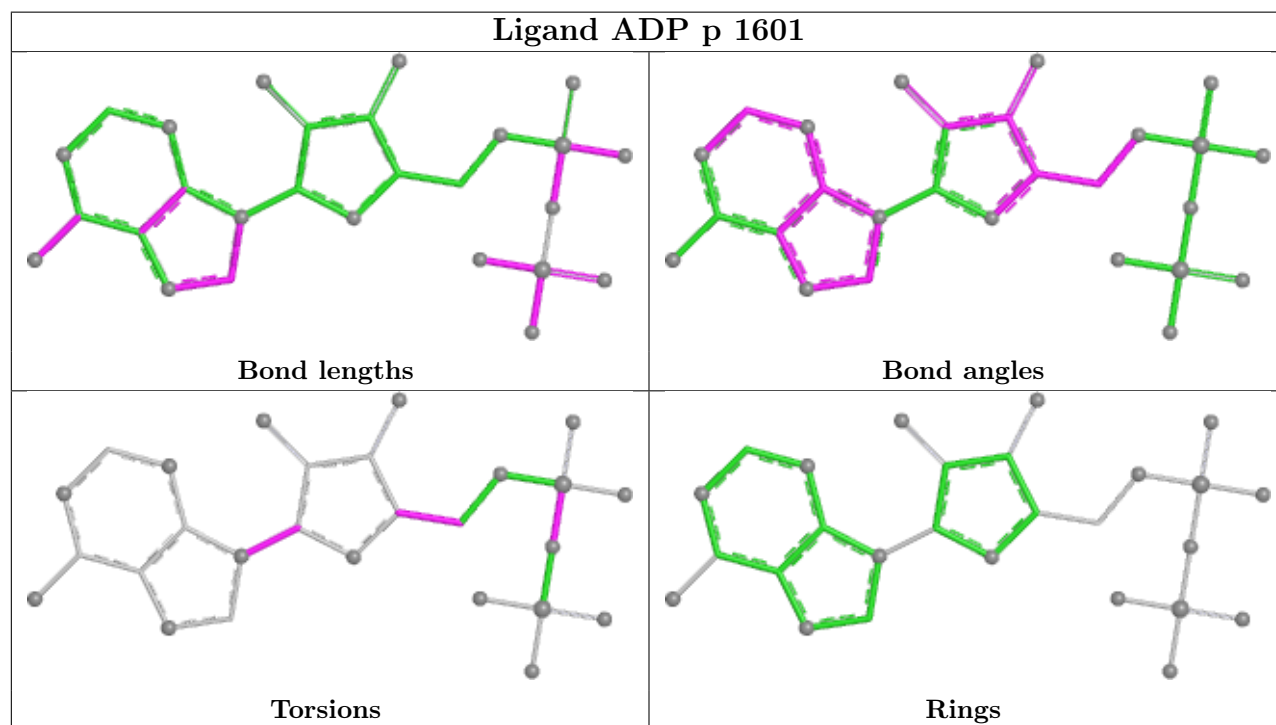
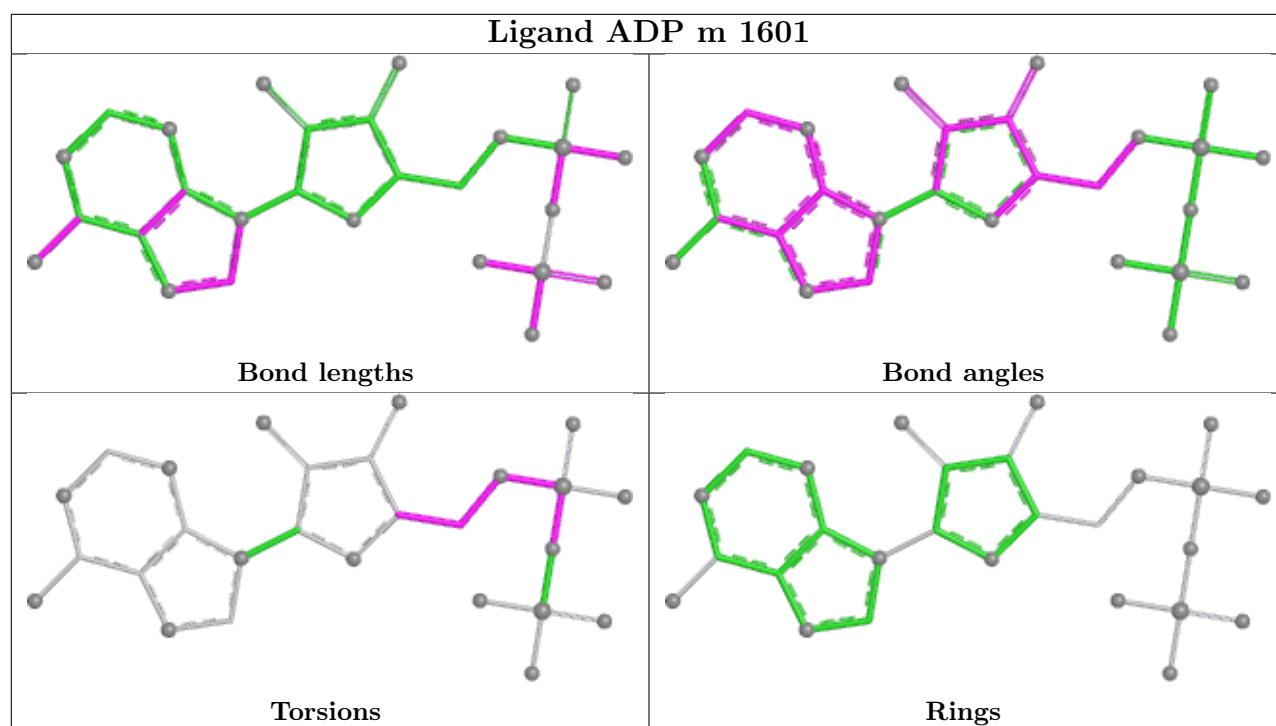
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

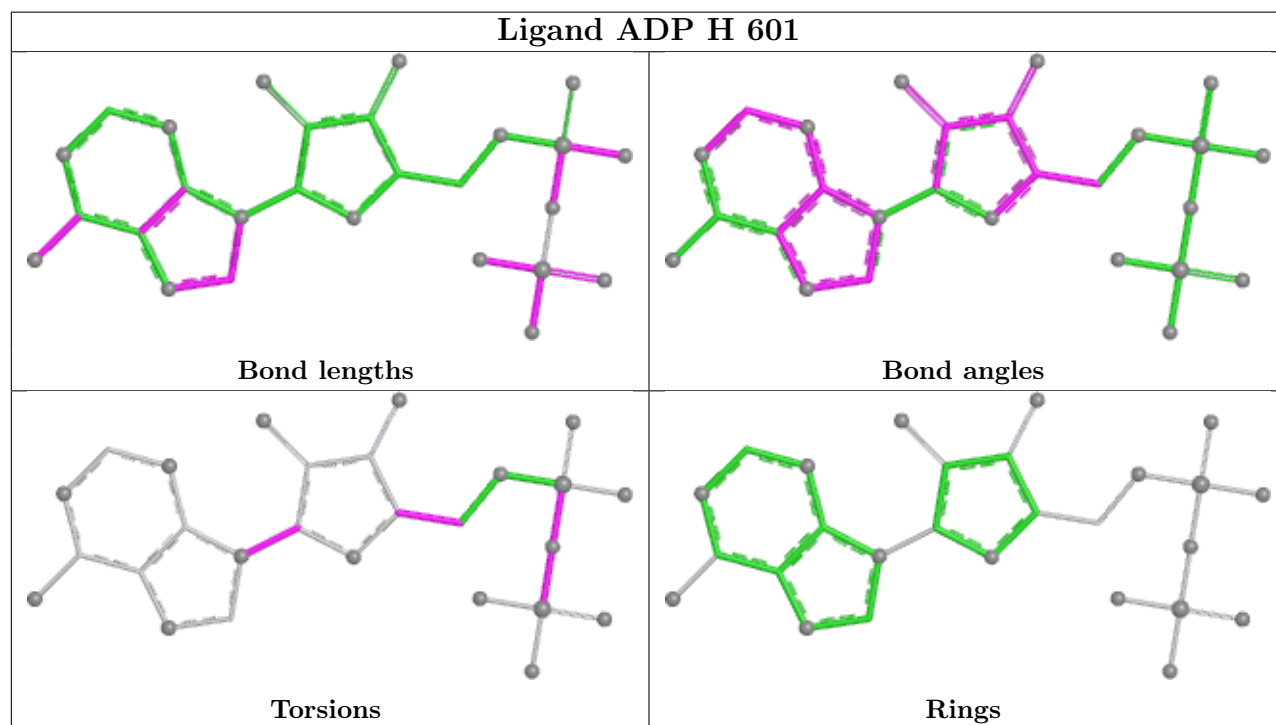
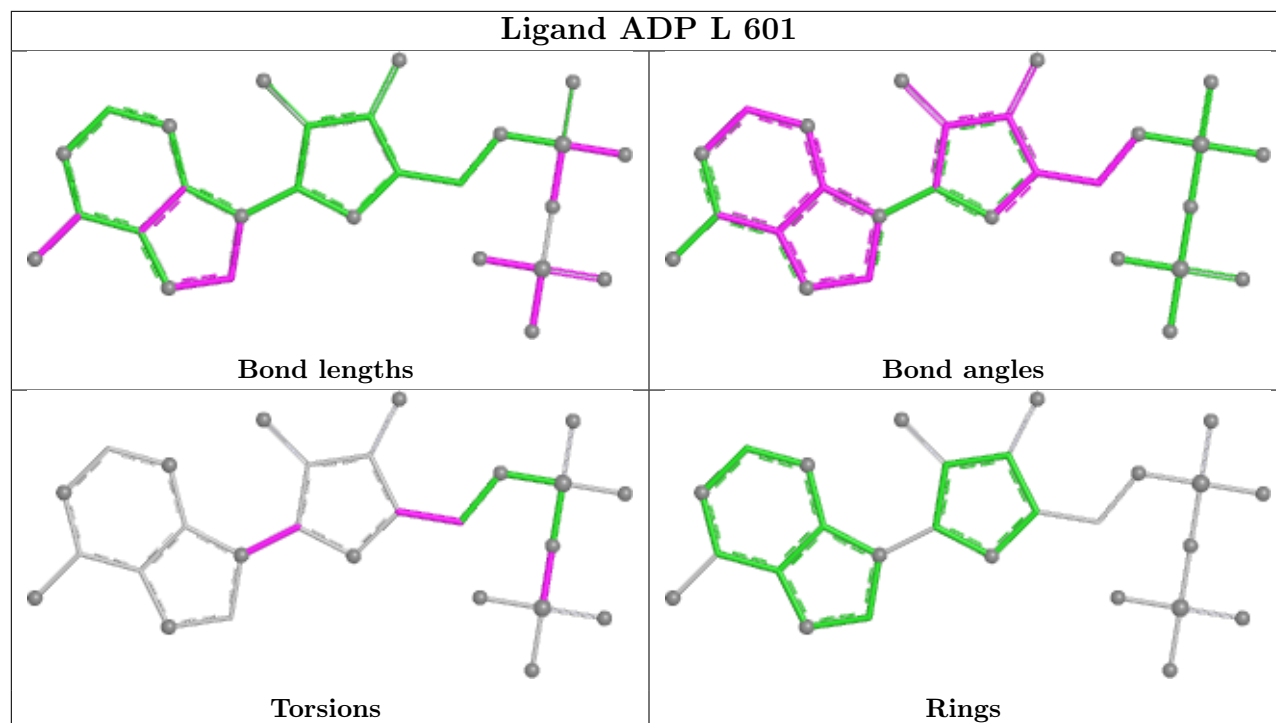


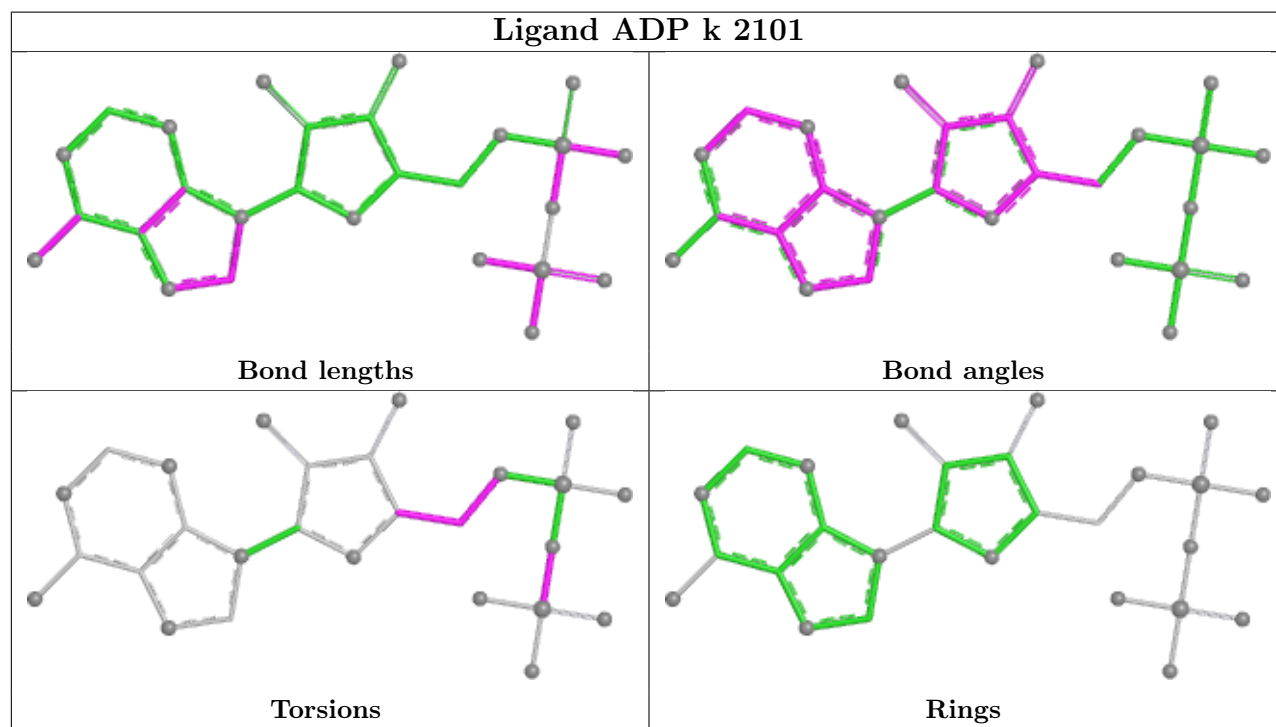
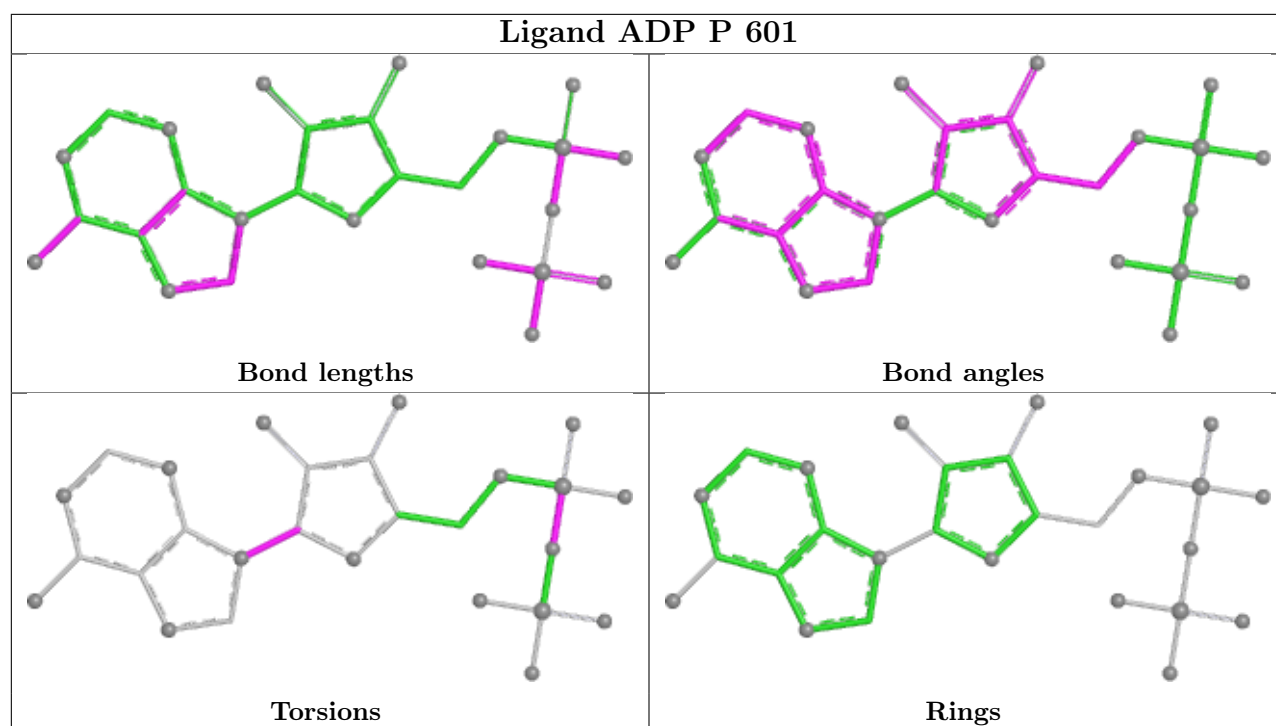


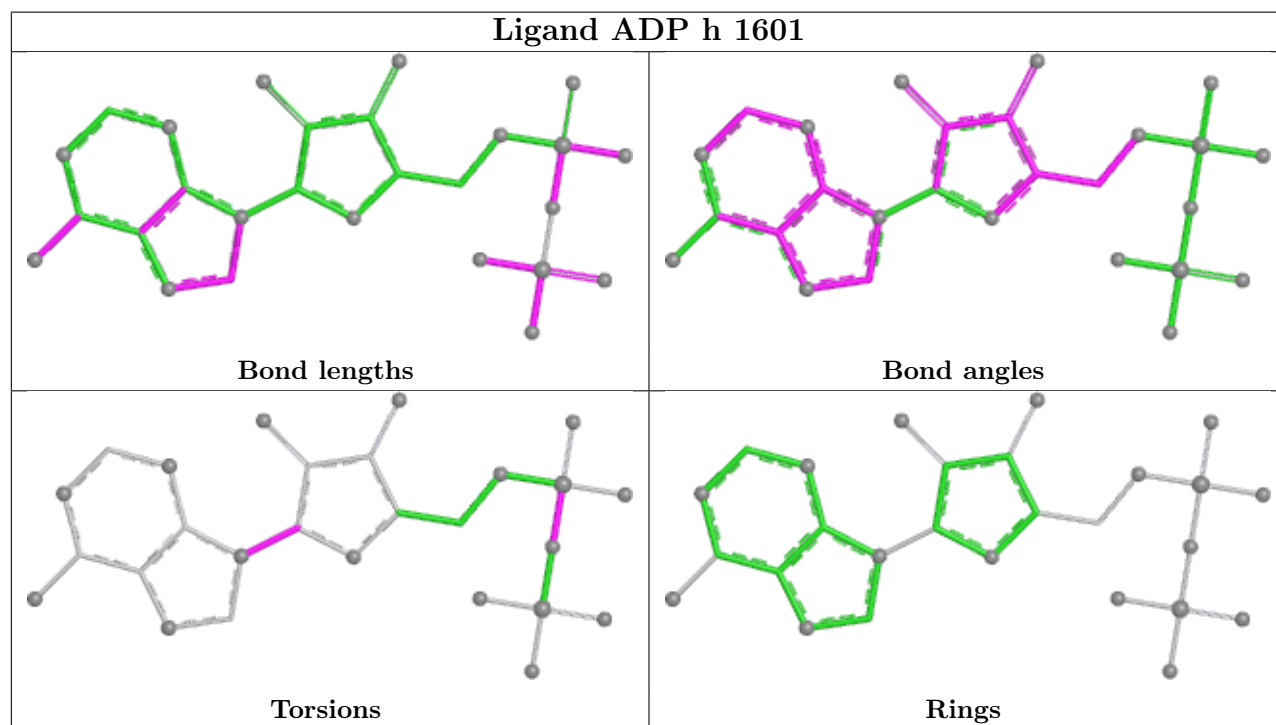
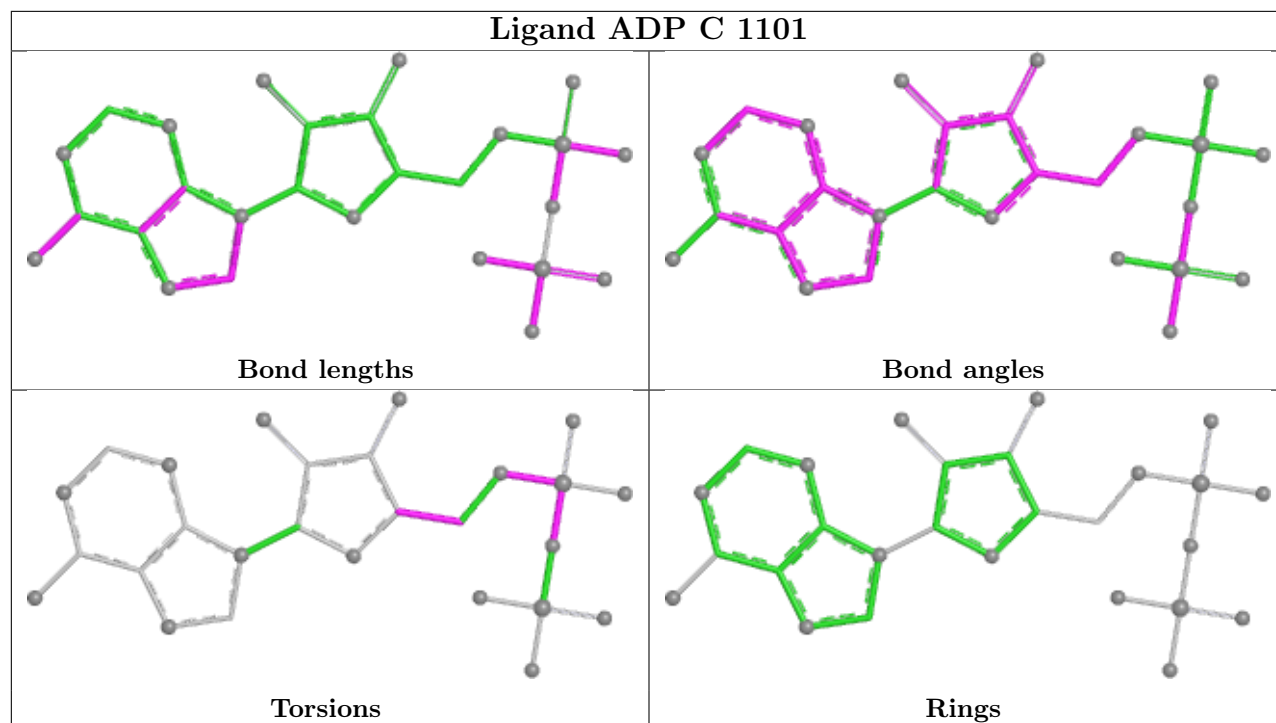


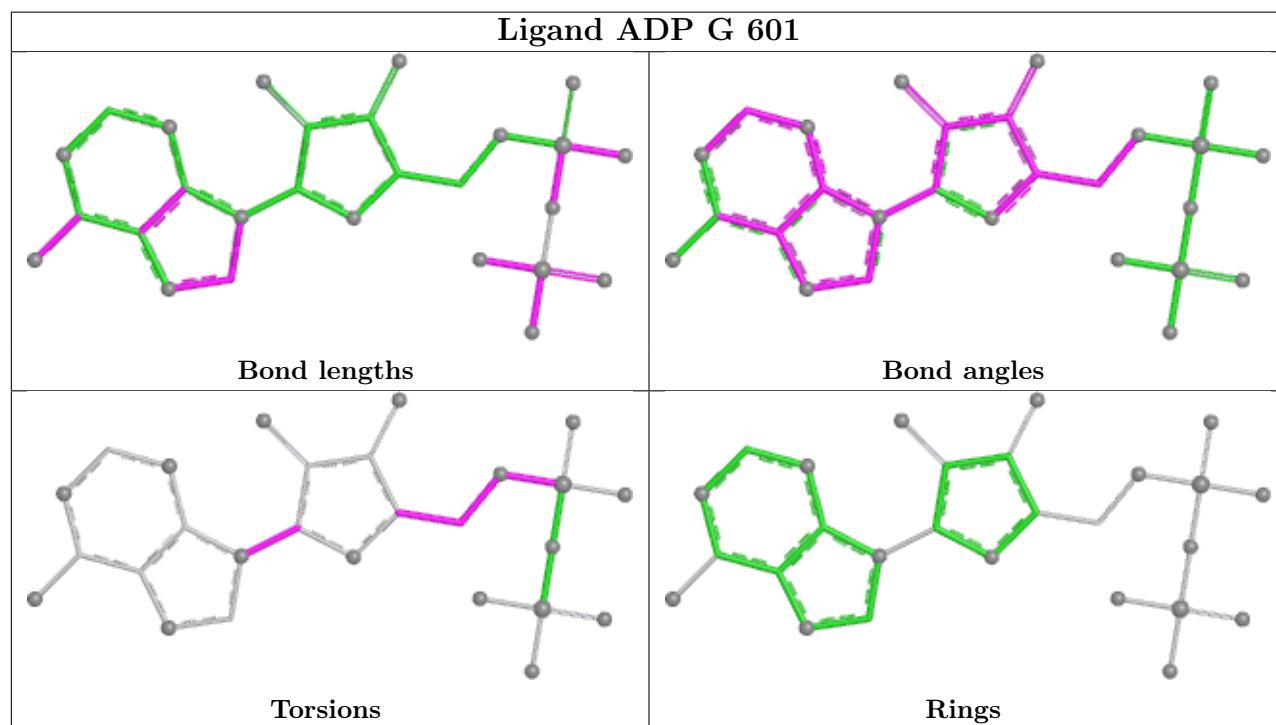
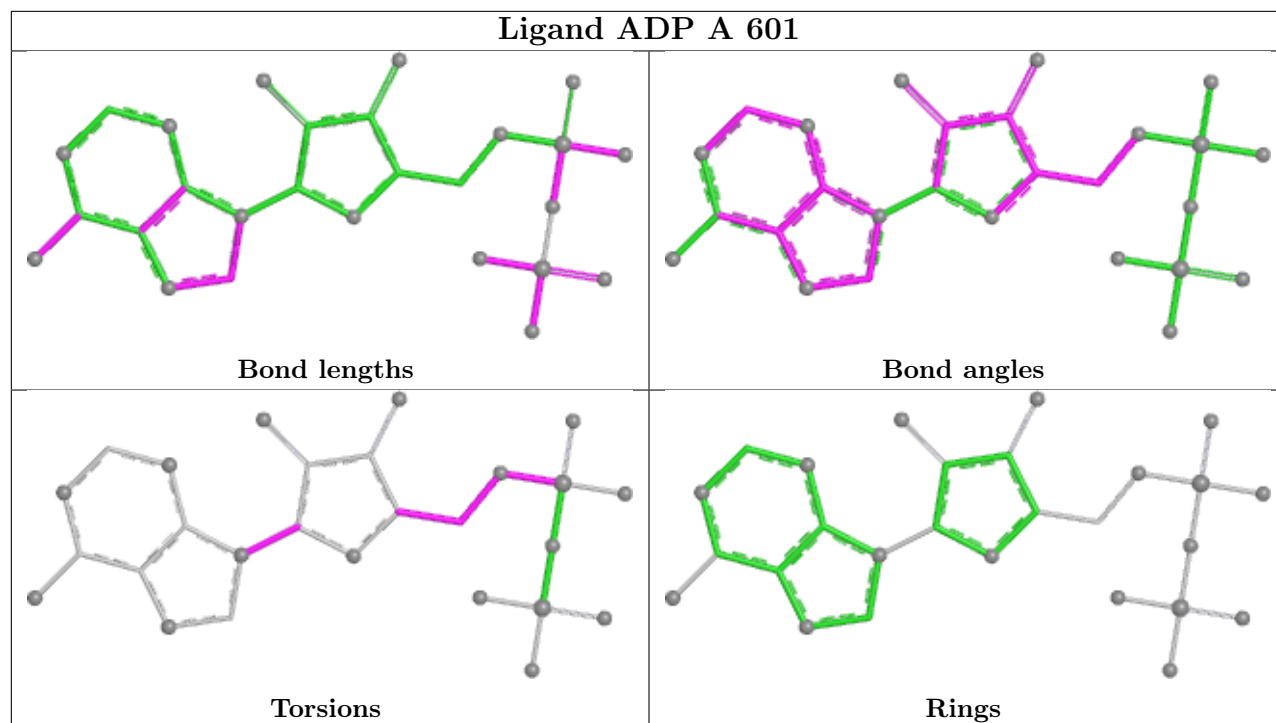


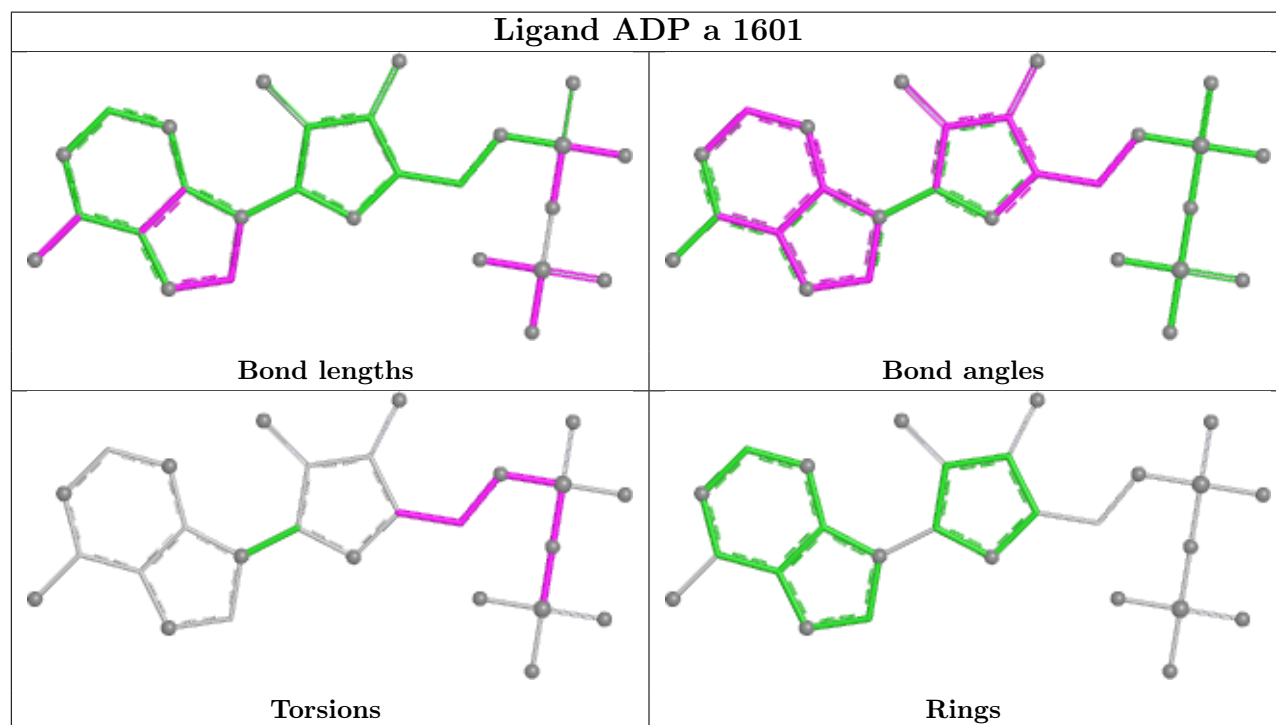
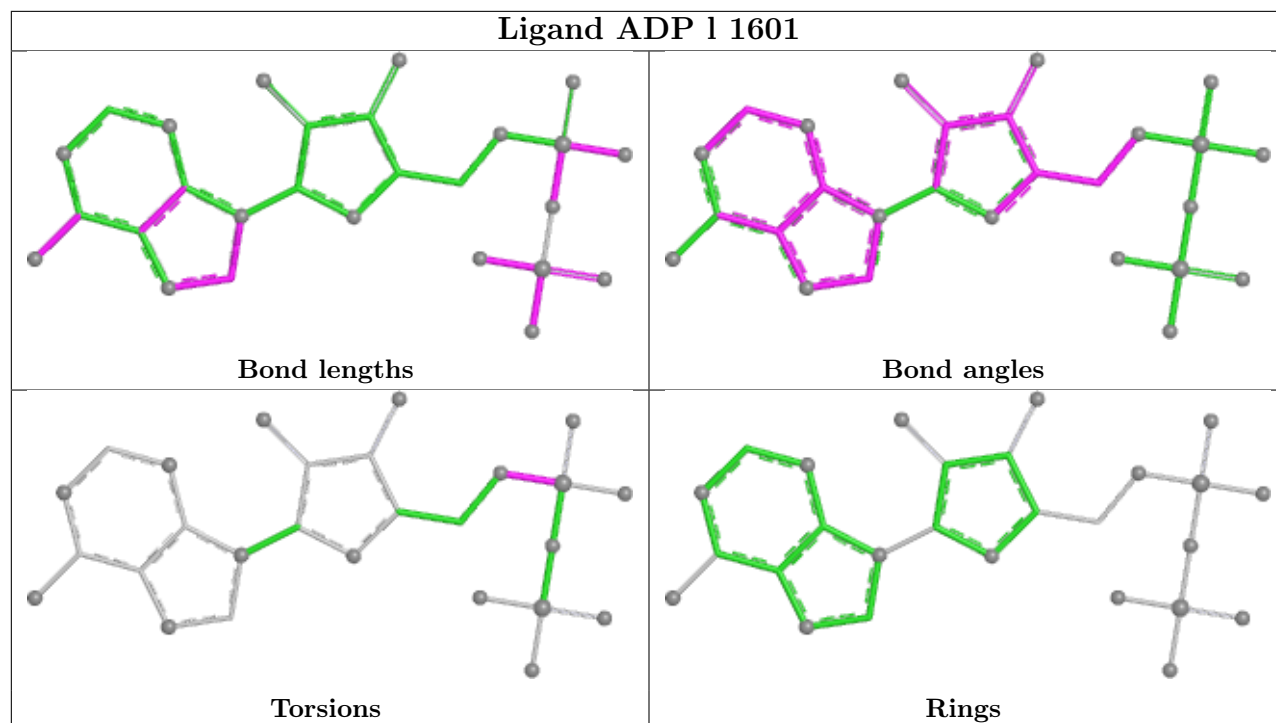


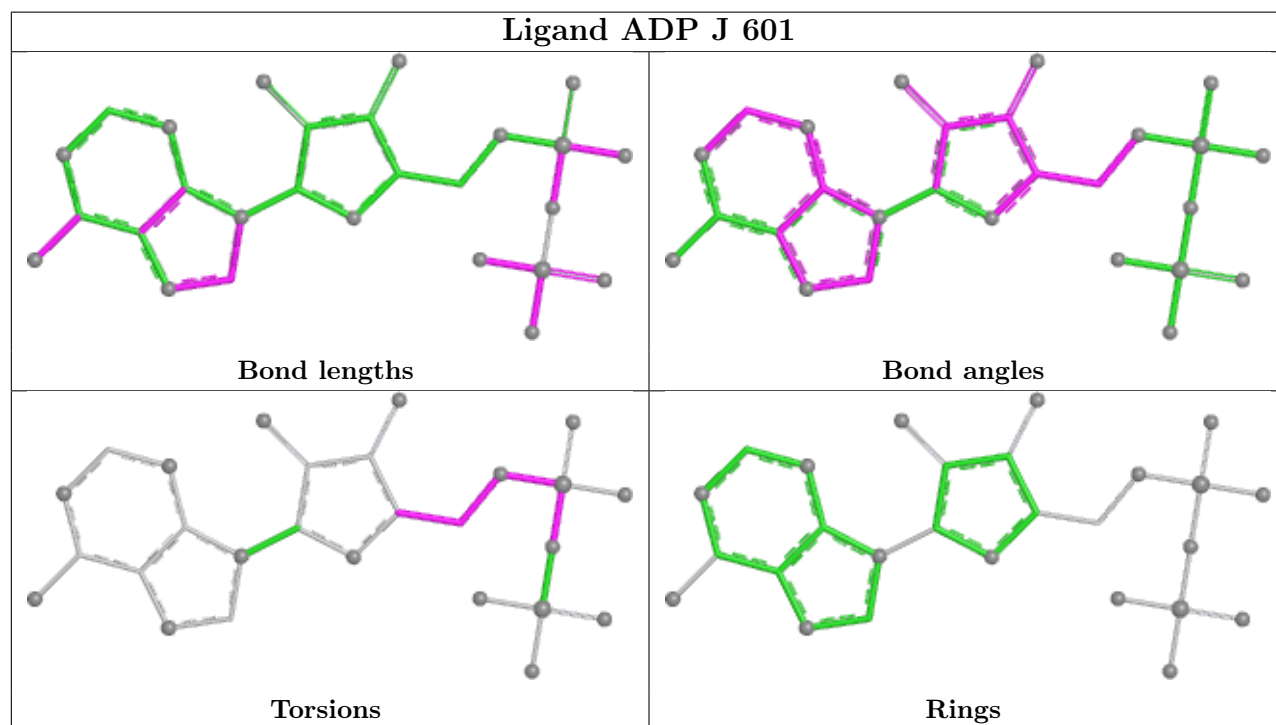
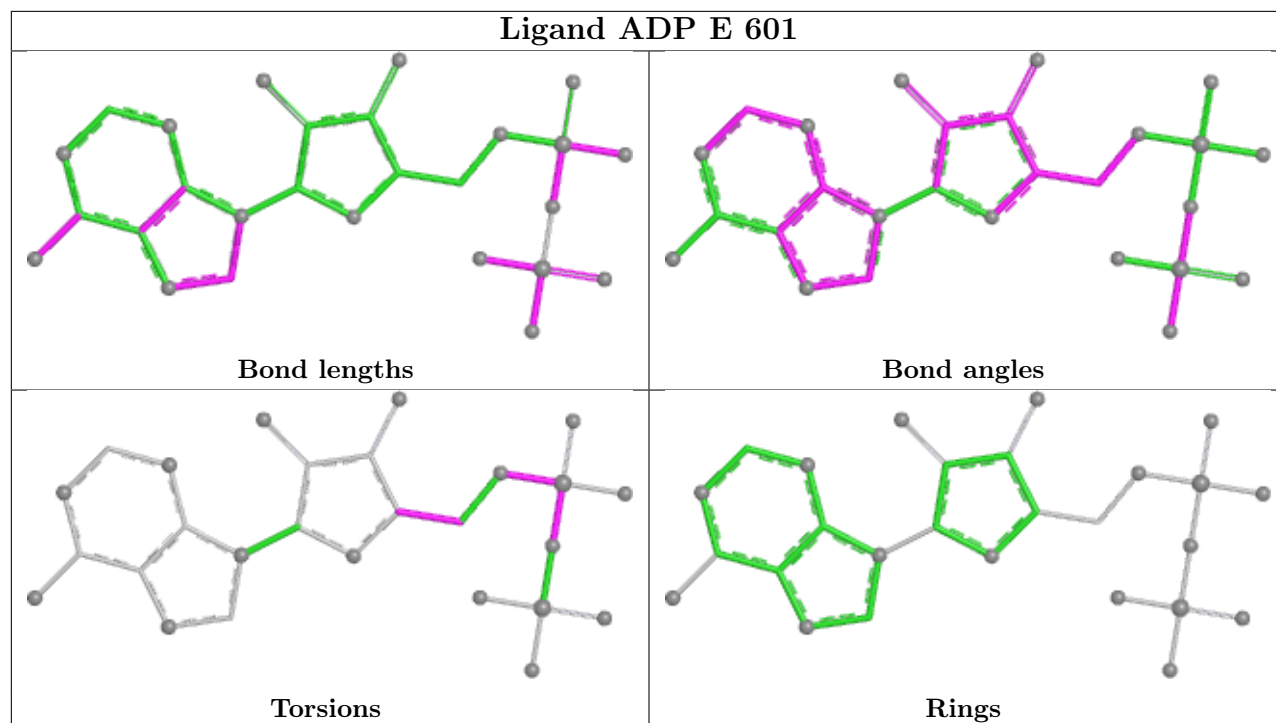


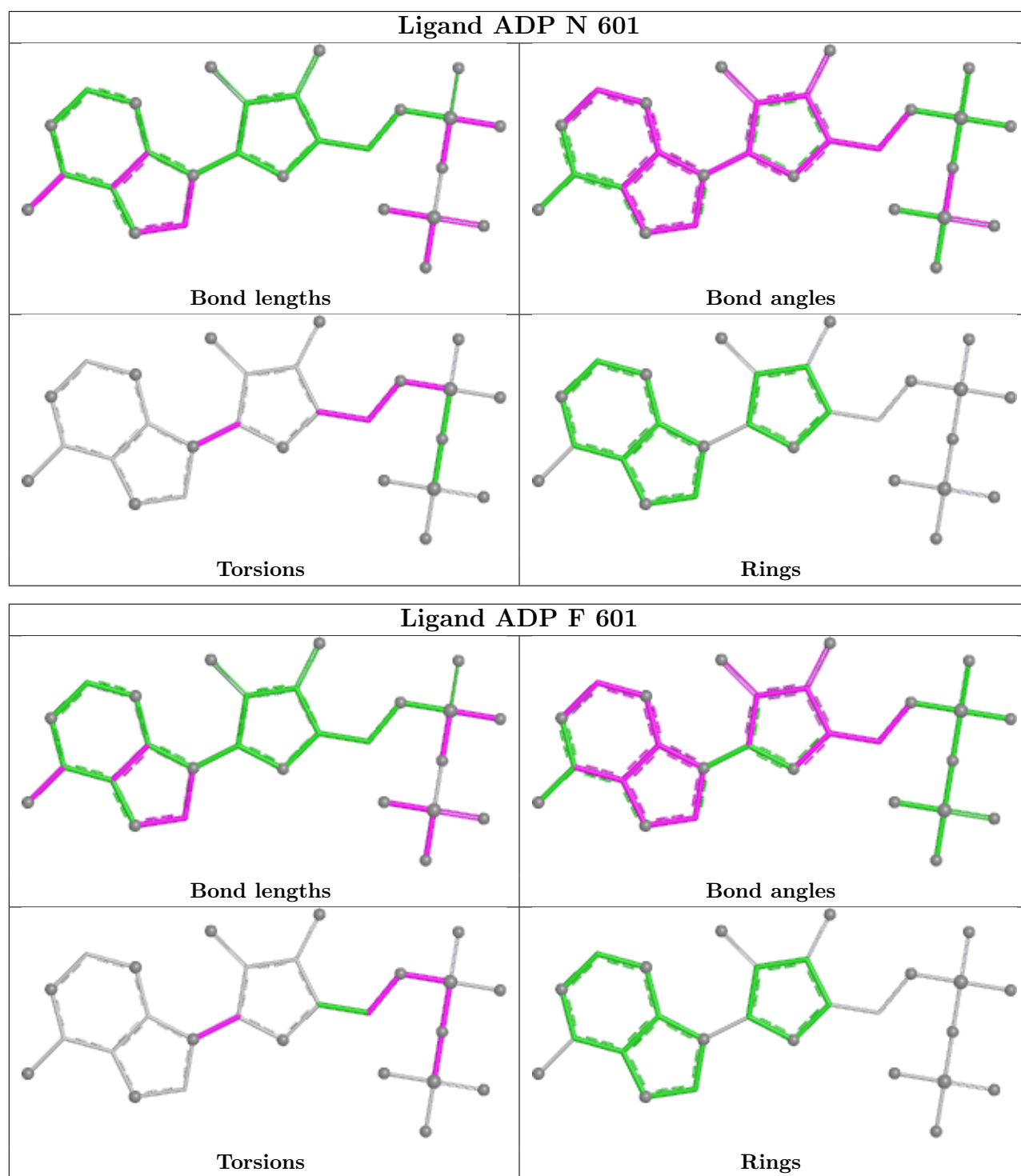












5.7 Other polymers ⓘ

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(Å²)	Q<0.9
1	A	544/559 (97%)	0.76	43 (7%)	18	17	72, 134, 206, 254	0
1	I	544/559 (97%)	0.82	58 (10%)	11	14	72, 134, 206, 254	0
1	a	544/559 (97%)	0.57	23 (4%)	40	29	72, 134, 206, 254	0
1	i	544/559 (97%)	0.69	38 (6%)	22	19	72, 134, 206, 254	0
2	B	513/527 (97%)	0.80	39 (7%)	20	18	47, 120, 192, 236	0
2	J	513/527 (97%)	0.88	52 (10%)	12	14	47, 120, 192, 236	0
2	b	513/527 (97%)	0.79	51 (9%)	13	15	47, 120, 192, 236	0
2	j	513/527 (97%)	0.77	51 (9%)	13	15	47, 120, 192, 236	0
3	C	514/590 (87%)	1.12	78 (15%)	5	8	73, 141, 205, 295	0
3	K	514/590 (87%)	0.89	58 (11%)	10	13	73, 141, 205, 295	0
3	c	514/590 (87%)	0.79	42 (8%)	17	17	73, 141, 205, 295	0
3	k	514/590 (87%)	0.84	46 (8%)	15	16	73, 141, 205, 295	0
4	D	522/528 (98%)	1.18	94 (18%)	3	6	70, 149, 232, 297	0
4	L	522/528 (98%)	0.99	64 (12%)	8	12	70, 149, 232, 297	0
4	d	522/528 (98%)	0.88	57 (10%)	10	14	70, 149, 232, 297	0
4	l	522/528 (98%)	1.00	68 (13%)	7	11	70, 149, 232, 297	0
5	E	525/562 (93%)	0.97	71 (13%)	7	10	56, 138, 238, 297	0
5	M	525/562 (93%)	0.85	49 (9%)	14	16	56, 138, 238, 297	0
5	e	525/562 (93%)	0.74	42 (8%)	18	17	56, 138, 238, 297	0
5	m	525/562 (93%)	0.80	57 (10%)	10	14	56, 138, 238, 297	0
6	F	533/546 (97%)	0.90	63 (11%)	9	12	42, 116, 214, 301	0
6	N	533/546 (97%)	0.85	56 (10%)	11	14	42, 116, 214, 301	0
6	f	533/546 (97%)	0.83	51 (9%)	13	15	42, 116, 214, 301	0
6	n	533/546 (97%)	0.86	59 (11%)	10	13	42, 116, 214, 301	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
7	G	509/550 (92%)	0.89	48 (9%)	14	16	65, 136, 207, 264	0
7	O	509/550 (92%)	0.89	50 (9%)	13	15	65, 136, 207, 264	0
7	g	509/550 (92%)	0.83	42 (8%)	17	17	65, 136, 207, 264	0
7	o	509/550 (92%)	0.83	50 (9%)	13	15	65, 136, 207, 264	0
8	H	525/568 (92%)	0.99	71 (13%)	7	10	70, 148, 236, 294	0
8	P	525/568 (92%)	0.87	49 (9%)	14	16	70, 148, 236, 294	0
8	h	525/568 (92%)	0.86	47 (8%)	15	16	70, 148, 236, 294	0
8	p	525/568 (92%)	0.89	59 (11%)	10	13	70, 148, 236, 294	0
All	All	16740/17720 (94%)	0.86	1726 (10%)	12	14	42, 136, 217, 301	0

All (1726) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	l	1283	CYS	8.2
4	D	364	THR	7.6
5	e	1034	ASP	7.2
4	l	1284	ASN	6.9
8	p	1516	ASN	6.6
6	f	1487	ARG	6.3
6	N	487	ARG	6.2
8	p	1006	PRO	6.2
4	D	283	CYS	6.2
3	C	67	GLU	6.2
8	P	269	ASN	6.1
8	P	527	ALA	5.9
6	n	1466	PRO	5.9
1	I	185	LEU	5.8
5	M	220	ASP	5.7
1	i	1239	GLY	5.7
7	O	178	PHE	5.7
3	C	41	PRO	5.7
7	O	165	ALA	5.7
4	d	1480	ASP	5.6
8	H	149	GLU	5.6
6	F	468	ASP	5.6
8	H	30	LYS	5.5
1	a	1552	PRO	5.4
7	G	216	ASN	5.4
4	D	330	CYS	5.3

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Mol	Chain	Res	Type	RSRZ
1	A	278	ALA	5.2
7	o	1207	GLY	5.2
2	j	1372	ALA	5.2
8	p	1455	ALA	5.2
4	L	251	ASN	5.2
5	M	304	ASP	5.2
7	o	1166	MET	5.2
3	k	1243	VAL	5.1
6	n	1487	ARG	5.1
4	L	283	CYS	5.0
5	E	381	TYR	5.0
6	N	468	ASP	5.0
4	l	1252	ILE	5.0
4	l	1253	ILE	5.0
4	d	1437	ALA	4.9
5	M	249	PHE	4.9
7	g	1165	ALA	4.9
3	c	1146	GLU	4.9
4	l	1163	VAL	4.9
3	C	248	CYS	4.9
3	C	142	PRO	4.9
3	k	1012	GLN	4.8
1	A	185	LEU	4.8
1	I	270	LEU	4.8
6	F	487	ARG	4.8
5	M	410	GLY	4.8
5	m	1323	CYS	4.8
5	M	352	GLU	4.8
8	h	1370	VAL	4.8
4	D	458	ALA	4.8
3	C	269	TRP	4.8
5	E	410	GLY	4.7
5	e	1220	ASP	4.7
8	p	1454	VAL	4.7
3	k	1151	MET	4.7
4	D	261	ASP	4.7
4	D	480	ASP	4.7
6	F	223	ASP	4.7
4	D	284	ASN	4.7
2	j	1254	SER	4.6
6	F	249	SER	4.6
2	J	372	ALA	4.6

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Mol	Chain	Res	Type	RSRZ
8	p	1155	ASP	4.6
1	I	246	CYS	4.6
1	A	380	HIS	4.6
3	K	269	TRP	4.5
2	b	1151	GLU	4.5
3	K	158	SER	4.5
2	B	495	ARG	4.5
5	M	514	CYS	4.5
6	n	1464	PHE	4.5
7	O	461	ALA	4.5
7	G	335	GLN	4.5
3	c	1058	THR	4.5
3	c	1260	ASN	4.5
7	o	1165	ALA	4.5
2	J	249	LYS	4.4
8	H	450	LYS	4.4
3	C	295	VAL	4.4
7	o	1228	GLY	4.4
1	I	371	CYS	4.4
1	i	1232	ALA	4.4
6	f	1161	LYS	4.4
4	L	284	ASN	4.4
2	B	407	ALA	4.4
6	n	1539	SER	4.3
8	P	275	ASP	4.3
3	k	1307	HIS	4.3
7	o	1530	GLU	4.3
3	c	1370	ASN	4.3
3	c	1365	PHE	4.3
4	L	519	LEU	4.3
6	f	1120	ASP	4.3
6	F	161	LYS	4.3
3	C	243	VAL	4.3
5	m	1398	SER	4.3
6	n	1467	LEU	4.3
8	h	1330	ARG	4.2
3	K	264	GLU	4.2
5	E	295	TYR	4.2
6	N	252	PHE	4.2
5	E	78	ASP	4.2
6	n	1457	THR	4.2
7	g	1167	SER	4.2

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Mol	Chain	Res	Type	RSRZ
7	o	1223	THR	4.2
7	o	1520	VAL	4.2
4	D	432	MET	4.2
5	m	1035	GLN	4.2
5	E	220	ASP	4.2
3	K	159	ILE	4.2
4	D	267	GLU	4.2
7	O	530	GLU	4.2
7	G	337	THR	4.1
3	K	173	GLU	4.1
1	A	246	CYS	4.1
4	l	1437	ALA	4.1
4	D	414	GLY	4.1
6	n	1142	ASN	4.1
5	E	465	ASP	4.1
7	g	1076	VAL	4.1
8	h	1249	VAL	4.1
5	m	1217	LYS	4.1
5	E	362	ILE	4.1
6	F	163	ASP	4.0
4	l	1444	ALA	4.0
6	F	467	LEU	4.0
6	F	368	THR	4.0
4	l	1449	VAL	4.0
4	D	252	ILE	4.0
1	I	99	THR	4.0
6	N	108	PHE	4.0
2	J	282	ASN	4.0
4	l	1007	SER	4.0
6	n	1465	ASP	4.0
7	G	131	LYS	4.0
7	O	146	ASP	4.0
1	I	186	ALA	4.0
4	D	106	ALA	4.0
2	j	1288	GLN	4.0
4	d	1484	VAL	3.9
6	N	163	ASP	3.9
3	k	1464	PRO	3.9
5	m	1037	ASN	3.9
4	D	70	ILE	3.9
3	c	1307	HIS	3.9
4	D	363	VAL	3.9

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Mol	Chain	Res	Type	RSRZ
7	G	228	GLY	3.9
8	p	1025	ASP	3.9
7	G	529	SER	3.9
8	H	345	GLY	3.9
2	B	372	ALA	3.9
3	K	364	TYR	3.9
5	M	34	ASP	3.9
7	G	336	SER	3.9
1	A	10	SER	3.9
5	m	1050	HIS	3.9
5	m	1358	THR	3.9
6	N	277	ILE	3.8
5	e	1383	GLN	3.8
6	N	216	ASP	3.8
6	N	223	ASP	3.8
4	d	1082	SER	3.8
4	D	437	ALA	3.8
1	i	1093	GLU	3.8
2	b	1072	PRO	3.8
2	J	480	ALA	3.8
3	K	58	THR	3.8
8	h	1124	ALA	3.8
5	e	1400	GLU	3.8
4	l	1162	ILE	3.8
6	F	454	ILE	3.8
1	I	293	ALA	3.8
2	B	240	THR	3.8
3	K	8	MET	3.8
1	I	245	ALA	3.8
3	k	1384	GLY	3.8
8	H	453	ALA	3.8
4	L	140	HIS	3.8
7	O	336	SER	3.8
5	E	412	ASN	3.8
1	A	194	GLY	3.8
2	J	115	ILE	3.7
2	b	1475	ASN	3.7
7	G	513	ALA	3.7
4	l	1364	THR	3.7
3	C	151	MET	3.7
3	c	1333	GLY	3.7
1	I	131	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
2	J	252	VAL	3.7
3	C	200	ILE	3.7
5	E	271	ILE	3.7
5	E	35	GLN	3.7
3	C	58	THR	3.7
7	o	1230	GLU	3.7
5	m	1377	CYS	3.7
8	p	1140	LYS	3.7
7	O	513	ALA	3.7
3	c	1455	THR	3.7
6	N	361	GLU	3.7
2	B	292	ASP	3.7
8	H	378	ILE	3.7
2	J	454	GLU	3.6
2	J	325	VAL	3.6
8	H	158	GLU	3.6
4	D	348	ASP	3.6
3	C	47	MET	3.6
1	A	227	THR	3.6
6	f	1486	THR	3.6
6	F	24	THR	3.6
4	l	1236	LEU	3.6
4	l	1255	ASN	3.6
5	e	1509	ASN	3.6
2	J	204	SER	3.6
7	O	335	GLN	3.6
7	g	1241	ILE	3.6
3	c	1264	GLU	3.6
6	F	435	GLY	3.6
3	k	1352	CYS	3.6
4	D	272	LEU	3.6
3	K	455	THR	3.6
6	F	187	ASP	3.6
6	f	1431	MET	3.5
6	f	1227	ARG	3.5
7	g	1252	ALA	3.5
4	l	1285	VAL	3.5
1	i	1069	ILE	3.5
4	d	1298	ASN	3.5
6	N	461	ASN	3.5
8	H	311	HIS	3.5
6	n	1372	ASP	3.5

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Mol	Chain	Res	Type	RSRZ
4	d	1025	ILE	3.5
8	H	235	HIS	3.5
8	P	268	HIS	3.5
8	h	1019	ASN	3.5
8	p	1491	LYS	3.5
1	I	266	ASP	3.5
3	C	292	PRO	3.5
8	H	85	LEU	3.5
3	k	1231	HIS	3.5
4	d	1383	ASN	3.5
6	f	1187	ASP	3.5
2	J	489	GLU	3.5
8	P	427	GLU	3.5
6	N	235	ILE	3.5
8	P	156	LYS	3.5
3	C	38	CYS	3.5
5	M	349	GLN	3.5
7	O	345	HIS	3.5
2	B	512	ASP	3.5
2	J	107	GLU	3.5
8	p	1078	VAL	3.5
6	N	66	MET	3.5
1	I	264	ILE	3.4
2	b	1372	ALA	3.4
4	D	442	GLU	3.4
6	n	1024	THR	3.4
4	D	265	LYS	3.4
4	D	429	ALA	3.4
3	C	377	CYS	3.4
1	A	260	VAL	3.4
6	F	66	MET	3.4
4	L	415	GLY	3.4
4	L	426	SER	3.4
5	m	1164	THR	3.4
1	A	271	GLU	3.4
6	n	1507	TRP	3.4
5	E	261	LYS	3.4
4	D	478	LEU	3.4
8	p	1080	PRO	3.4
5	E	363	VAL	3.4
6	f	1221	HIS	3.4
5	m	1508	SER	3.4

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Mol	Chain	Res	Type	RSRZ
8	P	158	GLU	3.4
3	C	500	TRP	3.4
3	k	1474	LYS	3.4
4	l	1519	LEU	3.4
8	p	1487	PRO	3.4
8	P	81	ALA	3.4
8	H	209	VAL	3.4
2	j	1308	HIS	3.4
3	k	1477	GLN	3.4
6	F	466	PRO	3.4
1	I	537	ALA	3.4
3	K	75	ALA	3.4
1	I	338	VAL	3.4
8	P	113	VAL	3.4
4	L	364	THR	3.3
2	J	234	ALA	3.3
2	j	1419	ALA	3.3
4	L	350	VAL	3.3
8	H	370	VAL	3.3
8	p	1367	ARG	3.3
3	C	379	ILE	3.3
5	m	1036	GLY	3.3
4	D	374	THR	3.3
6	n	1341	GLU	3.3
3	K	380	MET	3.3
1	a	1246	CYS	3.3
4	D	291	SER	3.3
5	m	1507	ILE	3.3
1	A	93	GLU	3.3
4	l	1524	ILE	3.3
8	h	1150	ILE	3.3
7	o	1349	CYS	3.3
6	F	490	GLY	3.3
1	A	14	PHE	3.3
1	i	1290	ASP	3.3
5	m	1311	ASP	3.3
6	n	1295	ILE	3.3
6	n	1091	THR	3.3
5	E	50	HIS	3.3
1	A	208	ALA	3.3
3	k	1142	PRO	3.3
4	D	343	ARG	3.3

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Mol	Chain	Res	Type	RSRZ
7	o	1524	ILE	3.3
8	h	1455	ALA	3.3
4	l	1182	SER	3.3
6	F	489	VAL	3.3
1	A	16	GLY	3.3
7	G	528	GLY	3.3
3	K	16	THR	3.3
4	l	1257	TYR	3.3
8	h	1491	LYS	3.3
4	L	514	CYS	3.3
3	C	484	ILE	3.2
6	n	1394	ALA	3.2
3	C	487	ASP	3.2
5	E	34	ASP	3.2
6	n	1161	LYS	3.2
3	K	357	VAL	3.2
3	C	387	ASP	3.2
6	N	465	ASP	3.2
1	a	1263	ASN	3.2
3	c	1147	ASN	3.2
5	E	172	ASN	3.2
7	O	45	GLY	3.2
8	h	1057	ASN	3.2
7	O	373	THR	3.2
8	P	267	LEU	3.2
2	J	250	PHE	3.2
3	C	358	GLU	3.2
8	p	1077	ILE	3.2
7	o	1227	ALA	3.2
6	f	1439	LYS	3.2
2	j	1348	LEU	3.2
2	j	1373	THR	3.2
6	f	1188	ASN	3.2
8	h	1155	ASP	3.2
2	b	1489	GLU	3.2
3	K	358	GLU	3.2
1	i	1183	ALA	3.2
6	f	1169	VAL	3.2
7	G	294	LEU	3.2
6	n	1171	THR	3.2
7	O	524	ILE	3.2
8	P	392	ASN	3.2

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Mol	Chain	Res	Type	RSRZ
3	c	1369	ASP	3.2
6	F	227	ARG	3.2
5	E	382	GLU	3.2
3	c	1047	MET	3.2
3	k	1008	MET	3.2
4	D	312	VAL	3.2
8	H	397	ILE	3.2
5	e	1295	TYR	3.2
5	M	202	GLU	3.2
7	g	1341	ILE	3.1
7	g	1524	ILE	3.1
6	f	1226	THR	3.1
4	l	1256	ASP	3.1
6	F	475	ASP	3.1
1	a	1293	ALA	3.1
4	D	7	SER	3.1
8	H	189	VAL	3.1
8	h	1340	PRO	3.1
5	E	387	THR	3.1
2	b	1194	GLN	3.1
2	j	1351	GLN	3.1
2	B	107	GLU	3.1
3	c	1143	VAL	3.1
3	c	1182	VAL	3.1
4	D	484	VAL	3.1
8	H	489	ALA	3.1
5	M	248	ASP	3.1
8	h	1506	ASP	3.1
2	b	1039	PRO	3.1
1	I	52	MET	3.1
4	D	298	ASN	3.1
4	d	1309	ASN	3.1
8	H	124	ALA	3.1
8	H	277	SER	3.1
1	i	1012	THR	3.1
3	K	95	THR	3.1
1	A	228	VAL	3.1
1	A	254	ALA	3.1
4	l	1254	VAL	3.1
3	C	296	ILE	3.1
5	E	255	PRO	3.1
1	A	371	CYS	3.1

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Mol	Chain	Res	Type	RSRZ
6	n	1376	CYS	3.1
7	g	1033	CYS	3.1
3	k	1283	MET	3.1
4	L	264	LEU	3.1
6	n	1463	GLY	3.1
6	N	486	THR	3.1
1	A	36	VAL	3.1
2	B	421	ASN	3.1
2	J	163	SER	3.1
4	D	164	SER	3.1
5	E	380	ILE	3.1
5	e	1510	ILE	3.1
1	I	14	PHE	3.1
4	L	433	GLU	3.1
4	d	1352	GLU	3.1
3	C	531	ARG	3.1
5	E	113	ASP	3.1
1	i	1342	SER	3.0
4	D	241	ILE	3.0
5	e	1507	ILE	3.0
6	F	539	SER	3.0
6	N	138	ILE	3.0
5	e	1172	ASN	3.0
5	e	1210	ASN	3.0
6	N	251	PHE	3.0
6	F	327	ARG	3.0
1	I	11	ASP	3.0
1	I	90	GLN	3.0
3	K	258	GLN	3.0
5	e	1035	GLN	3.0
7	g	1223	THR	3.0
3	k	1465	ILE	3.0
2	J	254	SER	3.0
3	C	143	VAL	3.0
3	C	331	VAL	3.0
7	G	303	ALA	3.0
4	D	370	ASN	3.0
4	D	479	ASN	3.0
7	o	1216	ASN	3.0
1	a	1341	MET	3.0
2	j	1493	LEU	3.0
3	k	1125	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
5	E	36	GLY	3.0
6	F	372	ASP	3.0
4	d	1070	ILE	3.0
2	j	1284	PHE	3.0
8	p	1031	SER	3.0
3	C	352	CYS	3.0
5	e	1514	CYS	3.0
2	B	508	LEU	3.0
1	i	1169	ILE	3.0
4	l	1374	THR	3.0
1	i	1147	SER	3.0
4	d	1304	PHE	3.0
5	E	512	VAL	3.0
7	G	509	SER	3.0
4	d	1071	LEU	3.0
8	h	1487	PRO	3.0
5	m	1031	ILE	3.0
2	j	1371	GLY	3.0
8	H	488	GLY	3.0
4	L	443	PHE	3.0
6	F	226	THR	3.0
4	L	200	VAL	3.0
4	L	285	VAL	3.0
6	n	1151	LEU	3.0
8	P	78	VAL	3.0
4	l	1371	ALA	3.0
6	n	1436	ALA	3.0
8	h	1535	ALA	3.0
4	D	383	ASN	3.0
8	h	1356	GLU	3.0
6	f	1222	PRO	3.0
3	C	25	ILE	3.0
8	H	35	ILE	3.0
8	H	371	PHE	3.0
8	p	1250	PHE	3.0
5	e	1367	GLN	3.0
6	n	1213	LEU	3.0
3	K	52	MET	3.0
5	m	1344	ARG	3.0
2	j	1241	ASP	3.0
4	D	456	GLU	2.9
7	g	1111	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
4	L	432	MET	2.9
5	E	434	VAL	2.9
7	O	259	VAL	2.9
7	g	1166	MET	2.9
4	l	1367	ARG	2.9
2	J	304	ASN	2.9
4	L	11	PHE	2.9
2	B	323	GLY	2.9
1	I	180	VAL	2.9
2	J	490	SER	2.9
4	D	214	VAL	2.9
4	l	1213	VAL	2.9
5	E	377	CYS	2.9
7	O	75	VAL	2.9
7	O	529	SER	2.9
8	p	1204	VAL	2.9
4	d	1382	ALA	2.9
7	o	1241	ILE	2.9
4	D	239	PHE	2.9
4	l	1370	ASN	2.9
7	O	447	GLU	2.9
8	h	1371	PHE	2.9
3	K	54	GLY	2.9
3	c	1255	GLY	2.9
4	d	1312	VAL	2.9
6	N	435	GLY	2.9
3	k	1058	THR	2.9
4	l	1234	ILE	2.9
5	m	1060	ILE	2.9
7	g	1120	ILE	2.9
8	h	1032	ILE	2.9
6	f	1006	LEU	2.9
1	i	1149	ASP	2.9
4	D	323	PHE	2.9
7	O	129	TYR	2.9
4	D	428	GLU	2.9
5	e	1114	GLU	2.9
1	i	1261	GLN	2.9
2	J	277	SER	2.9
1	A	443	ARG	2.9
5	M	172	ASN	2.9
5	m	1173	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
3	C	214	VAL	2.9
4	L	7	SER	2.9
4	l	1282	LYS	2.9
4	l	1484	VAL	2.9
6	n	1490	GLY	2.9
5	e	1387	THR	2.9
4	D	115	ILE	2.9
4	D	263	ILE	2.9
6	N	151	LEU	2.9
1	i	1398	MET	2.9
4	d	1257	TYR	2.9
7	O	130	ARG	2.9
5	M	114	GLU	2.9
4	L	126	SER	2.8
8	P	25	ASP	2.8
1	I	254	ALA	2.8
1	i	1150	THR	2.8
4	D	524	ILE	2.8
5	E	324	GLN	2.8
7	O	17	THR	2.8
8	p	1428	ILE	2.8
3	C	309	LEU	2.8
6	F	464	PHE	2.8
6	F	472	MET	2.8
4	l	1392	ARG	2.8
4	D	373	PRO	2.8
8	p	1015	LYS	2.8
1	A	381	SER	2.8
8	p	1019	ASN	2.8
2	b	1449	GLY	2.8
3	C	228	ASP	2.8
5	e	1115	ILE	2.8
8	H	152	ASP	2.8
6	N	231	ALA	2.8
3	C	8	MET	2.8
2	J	224	LYS	2.8
6	F	433	LYS	2.8
6	F	225	PRO	2.8
2	B	348	LEU	2.8
2	J	408	GLU	2.8
3	K	405	ASN	2.8
3	c	1067	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
6	n	1198	GLN	2.8
1	I	265	ASP	2.8
3	C	485	ASP	2.8
5	M	113	ASP	2.8
5	e	1173	ASP	2.8
6	f	1024	THR	2.8
2	B	198	ILE	2.8
4	d	1512	SER	2.8
4	l	1243	PRO	2.8
6	f	1454	ILE	2.8
7	O	241	ILE	2.8
4	L	298	ASN	2.8
8	H	157	ASN	2.8
1	I	150	THR	2.8
2	B	480	ALA	2.8
3	k	1305	ALA	2.8
5	e	1213	ASP	2.8
6	f	1479	ASP	2.8
7	G	349	CYS	2.8
7	g	1193	ASP	2.8
8	h	1042	CYS	2.8
6	N	433	LYS	2.8
1	I	522	ILE	2.8
2	j	1115	ILE	2.8
1	A	517	VAL	2.8
3	K	308	TYR	2.8
1	I	93	GLU	2.8
3	k	1009	ASN	2.8
5	M	36	GLY	2.8
8	h	1149	GLU	2.8
3	C	150	ALA	2.8
4	l	1169	PHE	2.8
6	F	436	ALA	2.8
3	c	1237	HIS	2.8
4	D	331	LYS	2.8
3	C	525	ASP	2.8
4	D	211	ASP	2.8
7	g	1426	ASP	2.8
7	o	1272	ASP	2.8
5	E	345	TRP	2.8
2	B	72	PRO	2.8
2	B	243	VAL	2.8

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Mol	Chain	Res	Type	RSRZ
5	E	508	SER	2.8
7	G	129	TYR	2.8
2	b	1322	GLY	2.8
3	c	1171	MET	2.8
4	L	334	ALA	2.8
6	N	161	LYS	2.8
6	n	1461	ASN	2.8
7	G	124	LEU	2.7
8	h	1122	LEU	2.7
1	i	1522	ILE	2.7
5	E	304	ASP	2.7
4	D	260	MET	2.7
8	P	162	MET	2.7
2	B	260	GLN	2.7
4	L	499	GLN	2.7
7	O	228	GLY	2.7
4	d	1479	ASN	2.7
5	E	53	ALA	2.7
4	l	1181	ILE	2.7
8	P	528	ILE	2.7
4	L	256	ASP	2.7
7	g	1266	ASP	2.7
1	I	179	MET	2.7
5	m	1292	VAL	2.7
7	G	75	VAL	2.7
3	k	1007	PHE	2.7
5	E	279	PRO	2.7
7	G	224	PHE	2.7
7	G	429	LYS	2.7
1	I	278	ALA	2.7
1	i	1416	GLY	2.7
2	B	127	ALA	2.7
5	e	1202	GLU	2.7
7	g	1351	LEU	2.7
7	o	1208	ALA	2.7
8	P	77	ILE	2.7
2	j	1050	SER	2.7
7	o	1167	SER	2.7
4	D	189	VAL	2.7
7	o	1352	PHE	2.7
8	H	347	PRO	2.7
2	J	109	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
2	j	1190	LEU	2.7
2	j	1201	GLY	2.7
6	f	1198	GLN	2.7
2	J	122	GLU	2.7
2	b	1363	GLU	2.7
3	c	1330	ARG	2.7
4	l	1267	GLU	2.7
6	F	147	ARG	2.7
6	f	1027	GLU	2.7
3	C	159	ILE	2.7
4	L	255	ASN	2.7
4	d	1115	ILE	2.7
4	d	1336	ILE	2.7
7	o	1311	ASN	2.7
4	D	471	SER	2.7
1	I	285	VAL	2.7
8	h	1323	VAL	2.7
5	m	1167	ASP	2.7
5	m	1220	ASP	2.7
4	L	259	GLN	2.7
2	J	364	ALA	2.7
5	M	510	ILE	2.7
1	A	189	THR	2.7
4	l	1341	GLU	2.7
5	M	406	CYS	2.7
7	g	1530	GLU	2.7
8	H	439	GLU	2.7
5	m	1039	LYS	2.7
8	P	311	HIS	2.7
3	C	294	LEU	2.7
3	c	1214	VAL	2.7
4	L	363	VAL	2.7
8	H	454	VAL	2.7
8	p	1146	VAL	2.7
8	p	1370	VAL	2.7
4	L	522	ASP	2.7
4	d	1335	ASP	2.7
6	n	1225	PRO	2.7
3	C	384	GLY	2.7
2	j	1012	GLU	2.7
5	E	384	GLU	2.7
6	n	1135	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
7	g	1102	THR	2.7
8	H	523	THR	2.7
4	D	275	CYS	2.7
5	E	39	LYS	2.7
5	m	1338	ASN	2.7
1	i	1381	SER	2.7
4	D	222	SER	2.7
5	e	1489	LEU	2.7
2	j	1325	VAL	2.6
4	L	312	VAL	2.6
6	F	162	VAL	2.6
8	p	1368	VAL	2.6
1	I	284	ARG	2.6
1	a	1259	GLY	2.6
2	j	1480	ALA	2.6
4	L	480	ASP	2.6
5	M	468	ALA	2.6
6	F	393	ASP	2.6
6	N	342	ASP	2.6
6	f	1163	ASP	2.6
2	J	395	THR	2.6
3	C	363	GLU	2.6
6	N	248	ASN	2.6
4	d	1519	LEU	2.6
7	g	1495	PHE	2.6
8	P	266	LEU	2.6
2	j	1051	SER	2.6
2	j	1054	CYS	2.6
7	o	1137	VAL	2.6
1	a	1481	HIS	2.6
2	b	1515	ILE	2.6
2	j	1515	ILE	2.6
7	g	1399	ILE	2.6
5	E	466	GLN	2.6
6	f	1219	GLY	2.6
7	O	80	ALA	2.6
7	O	445	ALA	2.6
2	b	1451	ASP	2.6
4	D	335	ASP	2.6
5	E	328	ASP	2.6
6	F	391	THR	2.6
7	G	309	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
6	f	1065	GLU	2.6
5	m	1172	ASN	2.6
7	o	1224	PHE	2.6
4	L	527	SER	2.6
8	h	1187	SER	2.6
6	F	169	VAL	2.6
6	F	221	HIS	2.6
5	m	1324	GLN	2.6
6	f	1433	LYS	2.6
1	A	516	GLY	2.6
6	F	112	GLY	2.6
3	c	1269	TRP	2.6
5	m	1295	TYR	2.6
5	m	1384	GLU	2.6
2	B	254	SER	2.6
8	p	1020	SER	2.6
3	k	1229	VAL	2.6
5	e	1032	VAL	2.6
8	H	236	VAL	2.6
2	J	150	ARG	2.6
2	b	1150	ARG	2.6
8	p	1397	ILE	2.6
5	E	247	LYS	2.6
2	B	296	GLN	2.6
3	K	123	GLN	2.6
4	D	441	GLN	2.6
4	L	139	CYS	2.6
5	E	251	HIS	2.6
5	M	323	CYS	2.6
8	P	347	PRO	2.6
4	l	1281	ALA	2.6
3	c	1486	GLY	2.6
5	E	558	GLY	2.6
6	f	1062	LEU	2.6
3	k	1269	TRP	2.6
5	e	1388	THR	2.6
2	B	408	GLU	2.6
2	b	1292	ASP	2.6
4	D	345	ASP	2.6
4	d	1266	GLU	2.6
5	m	1045	GLU	2.6
6	N	341	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
8	p	1205	ASP	2.6
1	I	36	VAL	2.6
3	c	1301	VAL	2.6
4	d	1162	ILE	2.6
5	m	1332	ASN	2.6
6	F	53	ILE	2.6
8	p	1378	ILE	2.6
3	c	1150	ALA	2.6
4	D	39	LEU	2.6
4	L	500	PRO	2.6
5	e	1468	ALA	2.6
8	h	1456	PHE	2.6
1	A	354	TYR	2.6
2	b	1478	THR	2.6
3	K	293	THR	2.6
4	l	1492	THR	2.6
6	F	245	THR	2.6
6	n	1391	THR	2.6
7	g	1068	THR	2.6
4	l	1015	GLU	2.6
4	L	512	SER	2.6
5	E	288	ASP	2.6
1	i	1029	ASN	2.6
3	K	265	LYS	2.6
3	K	295	VAL	2.6
4	D	188	ASN	2.6
4	D	350	VAL	2.6
4	l	1457	ASN	2.6
5	m	1267	VAL	2.6
6	F	324	ASN	2.6
8	P	370	VAL	2.6
8	p	1405	VAL	2.6
1	a	1184	LEU	2.6
2	J	347	MET	2.6
8	H	341	LEU	2.6
6	N	225	PRO	2.6
7	o	1513	ALA	2.6
8	P	191	PRO	2.6
2	B	469	THR	2.5
6	N	91	THR	2.5
7	O	514	THR	2.5
3	C	442	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
3	c	1500	TRP	2.5
4	d	1514	CYS	2.5
6	N	242	TYR	2.5
1	a	1554	GLU	2.5
2	J	12	GLU	2.5
2	j	1324	GLU	2.5
3	C	184	LYS	2.5
6	N	504	GLU	2.5
6	f	1254	SER	2.5
7	g	1230	GLU	2.5
7	o	1093	GLU	2.5
3	c	1331	VAL	2.5
4	D	163	VAL	2.5
8	H	247	VAL	2.5
8	P	355	VAL	2.5
2	b	1304	ASN	2.5
5	e	1198	ASP	2.5
6	F	158	LEU	2.5
6	f	1280	LEU	2.5
8	p	1038	LEU	2.5
4	l	1047	MET	2.5
1	A	261	GLN	2.5
2	b	1501	ALA	2.5
5	E	383	GLN	2.5
7	g	1492	PHE	2.5
8	H	324	PRO	2.5
8	H	481	ALA	2.5
7	o	1380	GLY	2.5
1	I	545	ILE	2.5
7	g	1129	TYR	2.5
6	f	1483	SER	2.5
7	O	333	SER	2.5
7	o	1529	SER	2.5
1	i	1246	CYS	2.5
3	k	1139	VAL	2.5
4	L	266	GLU	2.5
6	n	1499	CYS	2.5
8	H	323	VAL	2.5
8	p	1408	VAL	2.5
4	D	33	ASP	2.5
4	D	256	ASP	2.5
4	d	1523	ASP	2.5

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Mol	Chain	Res	Type	RSRZ
5	m	1113	ASP	2.5
1	I	350	PHE	2.5
2	j	1352	PRO	2.5
2	j	1429	ALA	2.5
3	K	12	GLN	2.5
5	e	1491	PRO	2.5
5	m	1367	GLN	2.5
4	D	329	GLY	2.5
2	b	1231	ILE	2.5
7	G	120	ILE	2.5
4	L	528	ARG	2.5
7	o	1345	HIS	2.5
2	b	1128	SER	2.5
4	d	1007	SER	2.5
1	I	73	LEU	2.5
6	F	233	VAL	2.5
6	F	234	LEU	2.5
8	P	186	VAL	2.5
8	p	1354	LEU	2.5
8	H	41	MET	2.5
2	b	1340	CYS	2.5
3	k	1405	ASN	2.5
8	H	19	ASN	2.5
4	d	1396	ASP	2.5
4	l	1480	ASP	2.5
6	n	1508	ASP	2.5
7	G	266	ASP	2.5
7	g	1176	ASP	2.5
7	g	1513	ALA	2.5
2	J	294	PRO	2.5
8	H	460	PRO	2.5
1	i	1423	GLY	2.5
2	b	1245	ILE	2.5
2	b	1404	GLY	2.5
5	e	1261	LYS	2.5
6	N	437	LYS	2.5
6	f	1124	ILE	2.5
8	p	1492	THR	2.5
7	O	242	LEU	2.5
7	o	1149	SER	2.5
1	I	316	MET	2.5
6	F	36	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	269	GLN	2.5
2	b	1031	ASP	2.5
2	b	1359	CYS	2.5
2	b	1473	ASP	2.5
4	L	16	LYS	2.5
3	c	1041	PRO	2.5
3	c	1120	ILE	2.5
4	L	252	ILE	2.5
5	E	222	ASP	2.5
6	n	1337	GLN	2.5
6	n	1454	ILE	2.5
7	o	1171	ILE	2.5
8	H	270	ALA	2.5
8	P	511	ASP	2.5
8	h	1152	ASP	2.5
8	P	97	GLY	2.5
3	C	271	ARG	2.5
5	E	365	ARG	2.5
2	J	462	SER	2.5
5	e	1291	SER	2.5
4	d	1163	VAL	2.5
4	d	1260	MET	2.5
7	G	345	HIS	2.5
8	H	249	VAL	2.5
8	H	305	VAL	2.5
1	I	18	GLU	2.5
7	O	111	GLU	2.5
5	M	507	ILE	2.5
5	m	1412	ASN	2.5
7	G	238	ASN	2.5
8	P	153	LYS	2.5
1	i	1186	ALA	2.5
5	M	337	GLN	2.5
5	m	1468	ALA	2.5
2	J	253	ASP	2.5
4	d	1103	LEU	2.5
7	O	47	LEU	2.5
7	O	266	ASP	2.5
7	g	1124	LEU	2.5
7	g	1228	GLY	2.5
4	l	1227	THR	2.5
7	G	43	THR	2.5

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Mol	Chain	Res	Type	RSRZ
5	M	264	SER	2.5
8	P	226	MET	2.5
4	d	1072	HIS	2.4
5	E	262	GLU	2.4
6	N	474	GLU	2.4
2	j	1052	ASN	2.4
3	K	446	ALA	2.4
7	G	32	ALA	2.4
7	G	526	ASN	2.4
3	k	1282	LEU	2.4
4	L	17	PRO	2.4
4	l	1117	PRO	2.4
1	I	16	GLY	2.4
2	J	302	GLY	2.4
3	C	312	GLY	2.4
3	C	313	GLY	2.4
5	E	218	ASP	2.4
5	M	178	ASP	2.4
6	N	187	ASP	2.4
7	G	193	ASP	2.4
2	b	1094	SER	2.4
4	l	1218	THR	2.4
6	N	462	SER	2.4
7	G	149	SER	2.4
7	o	1075	VAL	2.4
2	b	1464	TYR	2.4
6	N	136	PHE	2.4
1	A	550	GLU	2.4
4	D	521	ILE	2.4
4	L	72	HIS	2.4
5	M	400	GLU	2.4
8	P	486	GLU	2.4
1	A	257	ALA	2.4
1	i	1185	LEU	2.4
2	B	18	ALA	2.4
3	C	520	LEU	2.4
6	F	33	LEU	2.4
3	k	1281	GLN	2.4
6	F	184	ALA	2.4
6	F	536	ALA	2.4
8	H	516	ASN	2.4
8	h	1346	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
4	L	373	PRO	2.4
2	b	1358	GLY	2.4
1	I	10	SER	2.4
1	a	1124	THR	2.4
5	E	265	ASP	2.4
5	E	376	THR	2.4
6	F	540	THR	2.4
4	D	515	VAL	2.4
7	o	1264	VAL	2.4
8	H	490	VAL	2.4
3	K	367	PHE	2.4
8	p	1372	LYS	2.4
2	J	464	TYR	2.4
7	G	33	CYS	2.4
4	D	55	ILE	2.4
1	I	380	HIS	2.4
1	i	1154	GLU	2.4
8	p	1085	LEU	2.4
2	B	288	GLN	2.4
3	C	75	ALA	2.4
6	F	323	ARG	2.4
8	h	1375	GLN	2.4
8	p	1389	ALA	2.4
8	p	1489	ALA	2.4
2	j	1142	ASN	2.4
6	N	22	ASN	2.4
6	f	1432	ASN	2.4
8	P	273	MET	2.4
2	j	1349	GLY	2.4
6	N	398	GLY	2.4
8	H	99	GLY	2.4
4	L	355	SER	2.4
6	n	1544	THR	2.4
8	h	1485	THR	2.4
4	l	1363	VAL	2.4
7	O	94	VAL	2.4
8	h	1305	VAL	2.4
6	n	1016	ASP	2.4
5	e	1209	ILE	2.4
1	I	497	TYR	2.4
3	C	396	LEU	2.4
6	F	488	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
8	H	313	LEU	2.4
2	B	503	GLU	2.4
3	C	166	HIS	2.4
6	n	1221	HIS	2.4
8	h	1280	GLU	2.4
4	D	127	ALA	2.4
8	P	257	ALA	2.4
4	L	311	MET	2.4
6	f	1461	ASN	2.4
2	j	1272	LYS	2.4
7	g	1342	LYS	2.4
3	K	15	THR	2.4
6	n	1354	VAL	2.4
8	H	368	VAL	2.4
4	l	1263	ILE	2.4
4	D	71	LEU	2.4
7	O	104	LEU	2.4
1	i	1011	ASP	2.4
3	c	1303	ASP	2.4
6	n	1500	ASP	2.4
2	b	1335	CYS	2.4
3	c	1151	MET	2.4
5	M	324	GLN	2.4
6	f	1436	ALA	2.4
1	I	556	PRO	2.4
5	m	1314	LYS	2.4
3	C	370	ASN	2.4
3	c	1385	SER	2.4
5	E	411	SER	2.4
4	D	509	THR	2.4
2	J	508	LEU	2.4
4	L	204	ILE	2.4
5	E	164	THR	2.4
8	H	532	THR	2.4
7	o	1277	LEU	2.4
7	o	1507	LEU	2.4
8	p	1266	LEU	2.4
1	A	304	ASP	2.4
1	I	222	TYR	2.4
2	B	124	TYR	2.4
3	K	330	ARG	2.4
6	F	307	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
6	F	465	ASP	2.4
6	f	1478	ASP	2.4
3	C	421	MET	2.4
5	m	1318	ALA	2.4
5	m	1402	LYS	2.4
5	m	1506	LYS	2.4
2	j	1039	PRO	2.3
2	j	1294	PRO	2.3
3	c	1351	ASN	2.3
4	d	1255	ASN	2.3
5	E	555	ILE	2.3
5	M	398	SER	2.3
5	e	1149	GLY	2.3
5	m	1276	PHE	2.3
5	m	1509	ASN	2.3
1	A	184	LEU	2.3
4	d	1482	ILE	2.3
6	n	1509	SER	2.3
7	o	1122	SER	2.3
7	G	170	LEU	2.3
8	h	1329	LEU	2.3
2	J	33	VAL	2.3
4	d	1214	VAL	2.3
4	l	1340	THR	2.3
3	k	1171	MET	2.3
4	l	1209	MET	2.3
2	B	374	ASP	2.3
5	E	552	ASP	2.3
5	M	368	ASP	2.3
7	O	255	ASP	2.3
7	o	1018	ASP	2.3
2	J	87	GLU	2.3
5	E	330	GLU	2.3
5	e	1382	GLU	2.3
3	C	64	ILE	2.3
3	k	1200	ILE	2.3
4	L	381	GLY	2.3
5	e	1508	SER	2.3
7	g	1431	ILE	2.3
8	h	1191	PRO	2.3
8	p	1299	ILE	2.3
1	A	12	THR	2.3

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Mol	Chain	Res	Type	RSRZ
3	K	377	CYS	2.3
4	L	501	VAL	2.3
5	E	358	THR	2.3
5	M	528	VAL	2.3
8	P	42	CYS	2.3
3	C	364	TYR	2.3
7	o	1129	TYR	2.3
5	E	111	GLN	2.3
5	E	114	GLU	2.3
5	m	1248	ASP	2.3
7	o	1096	ASP	2.3
7	o	1193	ASP	2.3
8	H	16	GLN	2.3
1	I	244	ILE	2.3
1	I	462	LEU	2.3
2	b	1232	LEU	2.3
4	D	271	LEU	2.3
6	n	1173	ILE	2.3
6	n	1251	PHE	2.3
4	L	168	SER	2.3
6	n	1157	SER	2.3
7	o	1367	GLY	2.3
3	k	1295	VAL	2.3
6	N	171	THR	2.3
1	A	226	CYS	2.3
1	A	341	MET	2.3
2	j	1340	CYS	2.3
3	c	1248	CYS	2.3
6	F	530	CYS	2.3
7	G	161	CYS	2.3
8	p	1497	LYS	2.3
3	K	305	ALA	2.3
4	L	293	LEU	2.3
1	i	1262	ILE	2.3
3	C	452	ILE	2.3
6	n	1307	ASP	2.3
6	n	1361	GLU	2.3
7	G	93	GLU	2.3
7	o	1447	GLU	2.3
8	H	29	ILE	2.3
1	I	555	ASP	2.3
2	B	473	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
8	H	507	GLU	2.3
8	p	1486	GLU	2.3
5	M	411	SER	2.3
6	F	254	SER	2.3
2	b	1201	GLY	2.3
5	M	67	PRO	2.3
6	f	1218	GLY	2.3
3	K	166	HIS	2.3
3	K	307	HIS	2.3
4	D	395	HIS	2.3
5	M	230	VAL	2.3
7	O	36	VAL	2.3
1	I	499	ASN	2.3
6	F	167	THR	2.3
6	F	248	ASN	2.3
6	n	1036	ASN	2.3
3	k	1284	CYS	2.3
3	K	43	ALA	2.3
3	c	1437	ILE	2.3
4	D	270	TYR	2.3
4	L	270	TYR	2.3
6	N	366	TYR	2.3
8	P	512	ILE	2.3
4	D	208	GLU	2.3
4	l	1428	GLU	2.3
4	D	426	SER	2.3
2	b	1070	ASP	2.3
5	M	143	PRO	2.3
6	F	300	GLY	2.3
4	l	1072	HIS	2.3
4	l	1229	LYS	2.3
6	f	1515	ASN	2.3
7	G	288	THR	2.3
8	H	79	HIS	2.3
2	J	493	LEU	2.3
4	L	304	PHE	2.3
5	m	1168	ILE	2.3
7	O	357	ILE	2.3
8	p	1401	ILE	2.3
4	d	1429	ALA	2.3
5	E	227	GLN	2.3
5	M	111	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
6	N	386	TYR	2.3
8	H	248	ALA	2.3
7	g	1335	GLN	2.3
1	A	277	GLU	2.3
3	k	1358	GLU	2.3
4	L	155	SER	2.3
4	l	1513	GLU	2.3
5	E	64	SER	2.3
1	I	78	PRO	2.3
3	k	1301	VAL	2.3
4	D	415	GLY	2.3
5	e	1511	GLY	2.3
8	h	1365	GLY	2.3
1	i	1068	THR	2.2
2	B	282	ASN	2.2
2	J	398	THR	2.2
3	C	237	HIS	2.2
4	L	479	ASN	2.2
7	o	1508	ASN	2.2
8	P	203	ASN	2.2
4	d	1425	LEU	2.2
3	C	209	ILE	2.2
3	C	263	ILE	2.2
3	k	1296	ILE	2.2
5	M	556	ILE	2.2
1	A	186	ALA	2.2
2	B	429	ALA	2.2
2	b	1480	ALA	2.2
3	K	448	ALA	2.2
8	H	389	ALA	2.2
5	M	35	GLN	2.2
8	h	1018	TYR	2.2
1	i	1071	SER	2.2
1	I	226	CYS	2.2
3	k	1248	CYS	2.2
7	g	1180	LYS	2.2
8	h	1372	LYS	2.2
4	d	1474	GLU	2.2
6	F	243	GLU	2.2
6	N	362	GLU	2.2
6	f	1243	GLU	2.2
7	G	230	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
7	g	1159	GLU	2.2
1	i	1179	MET	2.2
2	J	358	GLY	2.2
3	c	1530	VAL	2.2
5	e	1408	VAL	2.2
5	m	1450	MET	2.2
6	N	405	VAL	2.2
2	J	400	THR	2.2
2	j	1032	LEU	2.2
3	c	1525	ASP	2.2
4	D	425	LEU	2.2
4	d	1261	ASP	2.2
5	e	1196	ASP	2.2
5	e	1503	LEU	2.2
6	N	245	THR	2.2
6	N	479	ASP	2.2
8	h	1483	ASN	2.2
3	K	465	ILE	2.2
5	E	507	ILE	2.2
8	p	1069	ALA	2.2
2	j	1260	GLN	2.2
4	d	1259	GLN	2.2
2	j	1468	SER	2.2
3	K	168	SER	2.2
3	k	1158	SER	2.2
4	D	186	SER	2.2
4	l	1051	SER	2.2
5	E	264	SER	2.2
8	P	201	TYR	2.2
7	O	166	MET	2.2
3	C	244	VAL	2.2
4	L	214	VAL	2.2
4	d	1148	GLU	2.2
5	M	511	GLY	2.2
5	m	1512	VAL	2.2
6	F	469	VAL	2.2
7	G	455	GLU	2.2
8	P	265	VAL	2.2
5	m	1514	CYS	2.2
8	h	1308	LEU	2.2
8	p	1049	CYS	2.2
1	I	12	THR	2.2

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Mol	Chain	Res	Type	RSRZ
2	J	149	PHE	2.2
2	b	1416	ASP	2.2
4	D	336	ILE	2.2
4	L	518	ILE	2.2
4	d	1284	ASN	2.2
5	M	380	ILE	2.2
8	H	203	ASN	2.2
3	K	231	HIS	2.2
5	M	353	HIS	2.2
4	d	1511	ALA	2.2
7	O	478	TRP	2.2
7	o	1235	LYS	2.2
1	a	1294	GLN	2.2
2	b	1004	GLN	2.2
2	j	1187	SER	2.2
6	f	1249	SER	2.2
6	n	1355	TYR	2.2
8	p	1277	SER	2.2
1	I	446	LEU	2.2
3	K	250	LEU	2.2
3	K	294	LEU	2.2
4	d	1104	LEU	2.2
1	I	277	GLU	2.2
2	B	91	GLY	2.2
2	B	151	GLU	2.2
3	k	1461	GLY	2.2
4	D	418	GLU	2.2
4	l	1214	VAL	2.2
5	E	177	ARG	2.2
5	E	292	VAL	2.2
6	N	367	VAL	2.2
6	f	1162	VAL	2.2
7	O	261	VAL	2.2
2	J	280	GLY	2.2
1	i	1146	THR	2.2
2	B	5	ILE	2.2
5	M	415	ILE	2.2
8	h	1526	PHE	2.2
6	f	1430	ASN	2.2
4	D	281	ALA	2.2
7	o	1219	ALA	2.2
1	I	445	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
3	C	306	GLN	2.2
3	c	1008	MET	2.2
2	j	1199	LEU	2.2
4	d	1030	SER	2.2
6	N	255	SER	2.2
6	f	1170	LEU	2.2
7	O	143	LEU	2.2
7	o	1519	SER	2.2
8	P	433	ARG	2.2
8	H	204	VAL	2.2
2	B	431	GLU	2.2
2	j	1331	GLU	2.2
3	K	503	GLU	2.2
5	e	1279	PRO	2.2
6	F	463	GLY	2.2
7	O	42	PRO	2.2
7	O	381	GLY	2.2
7	O	455	GLU	2.2
8	P	307	GLU	2.2
8	P	163	ILE	2.2
3	K	350	THR	2.2
5	m	1388	THR	2.2
6	n	1226	THR	2.2
7	o	1523	THR	2.2
4	D	279	LYS	2.2
8	H	153	LYS	2.2
1	I	149	ASP	2.2
1	i	1369	ASP	2.2
3	C	107	CYS	2.2
8	p	1203	ASN	2.2
1	A	316	MET	2.2
1	I	437	ALA	2.2
2	j	1215	ALA	2.2
3	C	393	ASP	2.2
4	L	219	ALA	2.2
5	m	1112	ASP	2.2
6	N	394	ALA	2.2
7	g	1350	ALA	2.2
8	H	275	ASP	2.2
1	a	1261	GLN	2.2
4	D	510	LEU	2.2
4	L	258	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
4	L	291	SER	2.2
6	F	198	GLN	2.2
6	n	1189	LEU	2.2
7	o	1335	GLN	2.2
4	L	213	VAL	2.2
8	h	1201	TYR	2.2
2	b	1477	GLY	2.2
2	j	1231	ILE	2.2
4	d	1253	ILE	2.2
4	d	1351	GLU	2.2
4	l	1414	GLY	2.2
5	M	30	ILE	2.2
5	M	348	GLY	2.2
6	n	1504	GLU	2.2
7	G	229	PHE	2.2
7	g	1211	GLU	2.2
8	p	1427	GLU	2.2
2	b	1425	LYS	2.2
8	p	1221	THR	2.2
2	J	475	ASN	2.2
3	C	405	ASN	2.2
1	A	270	LEU	2.2
1	i	1049	LEU	2.2
6	f	1467	LEU	2.2
8	p	1520	MET	2.2
2	J	138	ALA	2.1
6	n	1186	ALA	2.1
4	D	346	SER	2.1
4	l	1146	ASP	2.1
5	E	131	ASP	2.1
5	E	93	GLN	2.1
6	f	1116	ARG	2.1
7	G	225	SER	2.1
7	G	333	SER	2.1
7	O	263	HIS	2.1
8	P	235	HIS	2.1
3	C	357	VAL	2.1
4	D	79	VAL	2.1
5	E	510	ILE	2.1
6	n	1301	ILE	2.1
8	p	1291	ILE	2.1
1	A	549	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
2	J	246	PHE	2.1
5	M	179	PHE	2.1
1	I	444	GLU	2.1
3	c	1265	LYS	2.1
5	M	326	GLY	2.1
6	N	466	PRO	2.1
8	H	388	GLY	2.1
8	P	468	GLY	2.1
4	l	1266	GLU	2.1
3	k	1016	THR	2.1
7	O	525	THR	2.1
1	a	1013	LEU	2.1
2	j	1354	LEU	2.1
3	K	359	MET	2.1
7	O	73	LEU	2.1
7	o	1398	MET	2.1
8	H	142	LEU	2.1
1	A	118	ASN	2.1
2	B	22	ALA	2.1
2	B	264	ALA	2.1
2	b	1465	ASN	2.1
2	j	1177	ALA	2.1
4	D	444	ALA	2.1
4	l	1458	ALA	2.1
6	F	480	ALA	2.1
7	O	227	ALA	2.1
1	i	1481	HIS	2.1
2	J	4	GLN	2.1
4	D	30	SER	2.1
4	d	1346	SER	2.1
6	f	1144	SER	2.1
7	G	359	SER	2.1
8	p	1016	GLN	2.1
8	p	1379	SER	2.1
4	d	1496	HIS	2.1
2	b	1005	ILE	2.1
3	C	35	ILE	2.1
3	c	1526	ILE	2.1
3	k	1214	VAL	2.1
4	L	336	ILE	2.1
5	e	1113	ASP	2.1
5	m	1146	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
8	H	242	ASP	2.1
8	p	1152	ASP	2.1
5	e	1545	CYS	2.1
5	m	1032	VAL	2.1
8	H	408	VAL	2.1
5	m	1261	LYS	2.1
7	o	1220	PHE	2.1
8	H	15	LYS	2.1
4	L	327	GLY	2.1
4	l	1235	GLY	2.1
4	l	1500	PRO	2.1
8	P	324	PRO	2.1
8	h	1488	GLY	2.1
5	m	1163	GLU	2.1
6	f	1092	THR	2.1
2	j	1103	LEU	2.1
3	C	57	LEU	2.1
3	K	304	LEU	2.1
3	c	1294	LEU	2.1
4	L	425	LEU	2.1
4	l	1287	LEU	2.1
8	P	411	LEU	2.1
1	a	1029	ASN	2.1
8	p	1330	ARG	2.1
5	M	291	SER	2.1
1	a	1244	ILE	2.1
3	K	477	GLN	2.1
4	l	1310	ILE	2.1
5	E	60	ILE	2.1
1	a	1030	VAL	2.1
2	B	192	HIS	2.1
5	e	1521	ASP	2.1
5	m	1286	LYS	2.1
7	O	264	VAL	2.1
8	H	155	ASP	2.1
8	H	131	TYR	2.1
1	i	1199	PRO	2.1
3	C	314	CYS	2.1
6	n	1090	GLY	2.1
8	H	26	GLY	2.1
2	b	1324	GLU	2.1
3	C	304	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
4	d	1338	LEU	2.1
4	d	1513	GLU	2.1
5	E	525	LEU	2.1
5	m	1114	GLU	2.1
7	G	476	GLU	2.1
7	O	210	GLU	2.1
5	m	1387	THR	2.1
7	G	373	THR	2.1
5	E	379	ARG	2.1
1	I	385	ILE	2.1
1	i	1431	ILE	2.1
2	J	245	ILE	2.1
3	k	1198	ILE	2.1
4	D	358	SER	2.1
6	f	1277	ILE	2.1
6	n	1249	SER	2.1
7	g	1464	ILE	2.1
2	J	355	LYS	2.1
2	b	1336	LYS	2.1
8	p	1375	GLN	2.1
1	a	1131	VAL	2.1
3	K	164	VAL	2.1
3	K	340	VAL	2.1
3	k	1219	VAL	2.1
4	d	1213	VAL	2.1
6	n	1340	VAL	2.1
7	G	84	VAL	2.1
7	g	1236	PHE	2.1
8	p	1371	PHE	2.1
1	I	77	HIS	2.1
3	C	231	HIS	2.1
3	c	1387	ASP	2.1
2	b	1041	GLY	2.1
3	k	1500	TRP	2.1
7	o	1146	ASP	2.1
8	h	1148	GLY	2.1
8	h	1313	LEU	2.1
1	a	1551	PRO	2.1
3	C	453	PRO	2.1
6	f	1303	PRO	2.1
1	i	1268	GLU	2.1
8	h	1307	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
2	b	1438	ARG	2.1
2	j	1422	ILE	2.1
3	C	10	ALA	2.1
4	L	263	ILE	2.1
4	l	1301	ALA	2.1
6	f	1301	ILE	2.1
2	j	1470	SER	2.1
3	C	302	SER	2.1
7	g	1494	LYS	2.1
8	P	31	SER	2.1
5	m	1179	PHE	2.1
6	F	494	ASN	2.1
7	G	231	GLN	2.1
1	i	1148	VAL	2.1
3	K	331	VAL	2.1
3	k	1331	VAL	2.1
4	l	1312	VAL	2.1
8	H	113	VAL	2.1
2	j	1203	LEU	2.1
3	k	1288	LEU	2.1
7	o	1302	LEU	2.1
8	h	1354	LEU	2.1
8	h	1245	HIS	2.1
2	b	1323	GLY	2.1
2	b	1374	ASP	2.1
2	j	1247	GLY	2.1
3	K	53	GLY	2.1
4	D	257	TYR	2.1
7	g	1355	MET	2.1
5	E	477	ASP	2.1
6	n	1342	ASP	2.1
7	g	1078	PRO	2.1
2	J	255	THR	2.1
5	M	387	THR	2.1
6	F	160	THR	2.1
6	N	391	THR	2.1
6	f	1064	THR	2.1
8	H	537	THR	2.1
4	D	372	ARG	2.1
2	b	1198	ILE	2.1
4	D	482	ILE	2.1
7	o	1341	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
8	P	170	LYS	2.1
3	k	1178	ALA	2.1
4	d	1159	SER	2.1
6	f	1186	ALA	2.1
8	H	346	ALA	2.1
2	J	194	GLN	2.1
3	K	106	GLN	2.1
5	m	1359	ASN	2.1
6	N	324	ASN	2.1
6	n	1346	GLN	2.1
8	P	202	PHE	2.1
3	C	34	VAL	2.1
3	C	145	VAL	2.1
3	k	1294	LEU	2.1
8	h	1474	VAL	2.1
6	N	334	GLY	2.0
6	N	463	GLY	2.0
8	p	1201	TYR	2.0
8	p	1479	TYR	2.0
4	l	1373	PRO	2.0
5	M	325	TRP	2.0
5	e	1325	TRP	2.0
5	m	1281	PRO	2.0
3	C	16	THR	2.0
3	K	218	ARG	2.0
5	M	388	THR	2.0
6	N	42	THR	2.0
8	H	493	ASP	2.0
1	A	275	LYS	2.0
2	j	1121	ILE	2.0
2	j	1251	LYS	2.0
3	K	262	GLU	2.0
4	D	162	ILE	2.0
4	D	497	ILE	2.0
4	L	115	ILE	2.0
4	d	1267	GLU	2.0
6	F	277	ILE	2.0
6	N	137	LYS	2.0
8	H	150	ILE	2.0
8	P	32	ILE	2.0
1	I	364	ALA	2.0
1	I	390	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
4	D	75	ALA	2.0
4	L	69	ALA	2.0
7	G	227	ALA	2.0
7	G	257	ALA	2.0
3	K	365	PHE	2.0
7	g	1220	PHE	2.0
8	H	114	SER	2.0
8	H	220	SER	2.0
8	p	1526	PHE	2.0
1	A	53	LEU	2.0
1	i	1090	GLN	2.0
2	B	391	LEU	2.0
4	D	259	GLN	2.0
4	d	1158	LEU	2.0
4	d	1283	CYS	2.0
5	E	514	CYS	2.0
8	p	1313	LEU	2.0
8	P	204	VAL	2.0
3	k	1260	ASN	2.0
4	D	251	ASN	2.0
7	G	491	ASN	2.0
7	O	238	ASN	2.0
3	C	407	MET	2.0
1	A	17	GLY	2.0
4	D	202	GLY	2.0
6	f	1537	GLY	2.0
1	a	1280	ILE	2.0
2	J	19	ARG	2.0
2	b	1332	PRO	2.0
5	M	295	TYR	2.0
8	H	191	PRO	2.0
3	K	25	ILE	2.0
3	K	484	ILE	2.0
4	d	1340	THR	2.0
5	e	1164	THR	2.0
5	e	1362	ILE	2.0
6	f	1091	THR	2.0
7	o	1111	GLU	2.0
8	P	115	GLU	2.0
1	A	15	LEU	2.0
1	a	1342	SER	2.0
2	b	1448	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
2	j	1066	SER	2.0
2	j	1453	SER	2.0
4	l	1174	ALA	2.0
5	E	179	PHE	2.0
4	l	1478	LEU	2.0
4	l	1510	LEU	2.0
5	E	426	SER	2.0
6	N	150	LEU	2.0
6	n	1336	ALA	2.0
7	G	121	SER	2.0
8	H	22	SER	2.0
8	p	1481	ALA	2.0
3	C	70	VAL	2.0
3	C	523	VAL	2.0
4	d	1363	VAL	2.0
5	M	313	VAL	2.0
8	h	1113	VAL	2.0
1	a	1226	CYS	2.0
1	i	1465	ASN	2.0
2	J	189	ASN	2.0
3	C	147	ASN	2.0
3	K	352	CYS	2.0
4	D	255	ASN	2.0
4	L	185	ASN	2.0
5	M	359	ASN	2.0
1	a	1553	LYS	2.0
3	C	330	ARG	2.0
3	K	339	ARG	2.0
3	k	1184	LYS	2.0
4	l	1464	LYS	2.0
5	E	326	GLY	2.0
3	K	414	PRO	2.0
2	b	1240	THR	2.0
2	b	1394	THR	2.0
1	A	13	LEU	2.0
1	I	307	LEU	2.0
1	a	1093	GLU	2.0
2	B	145	ASP	2.0
2	B	190	LEU	2.0
5	E	327	PHE	2.0
6	N	464	PHE	2.0
6	f	1189	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
6	n	1163	ASP	2.0
6	n	1280	LEU	2.0
6	n	1497	ASP	2.0
7	G	518	LEU	2.0
8	P	280	GLU	2.0
1	I	381	SER	2.0
2	J	111	ASP	2.0
2	b	1423	ASP	2.0
3	C	33	ASP	2.0
3	C	199	ASP	2.0
4	D	131	SER	2.0
5	m	1426	SER	2.0
7	O	65	ASP	2.0
7	O	509	SER	2.0
7	g	1290	ALA	2.0
3	c	1056	VAL	2.0
6	F	367	VAL	2.0
6	N	113	VAL	2.0
6	N	489	VAL	2.0
8	h	1300	VAL	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
10	BEF	J	602	4/4	0.52	0.20	235,236,240,246	0
10	BEF	F	602	4/4	0.62	0.37	157,163,163,171	0
10	BEF	N	602	4/4	0.62	0.26	112,120,121,122	0

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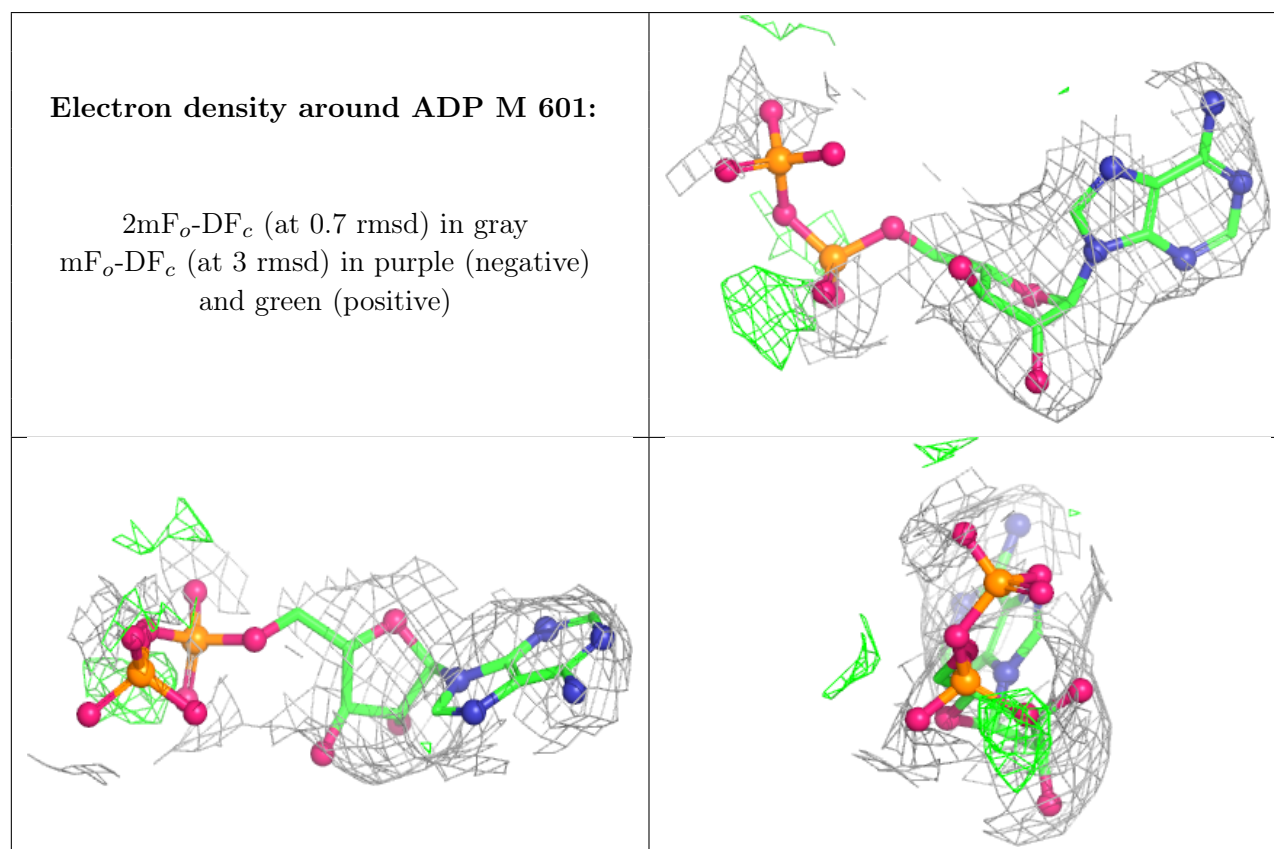
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
10	BEF	f	1602	4/4	0.62	0.26	167,170,171,173	0
10	BEF	E	602	4/4	0.64	0.28	240,241,242,244	0
10	BEF	G	602	4/4	0.65	0.20	236,237,238,239	0
10	BEF	n	1602	4/4	0.67	0.45	163,167,167,173	0
10	BEF	A	602	4/4	0.68	0.17	246,247,249,251	0
11	SO4	K	1101	5/5	0.76	0.18	84,89,97,102	0
11	SO4	c	2101	5/5	0.77	0.17	82,98,107,111	0
10	BEF	g	1602	4/4	0.78	0.21	162,165,165,166	0
10	BEF	L	602	4/4	0.78	0.13	172,177,177,180	0
11	SO4	O	600	5/5	0.79	0.13	78,79,92,100	0
10	BEF	M	602	4/4	0.79	0.13	152,158,161,170	0
10	BEF	B	602	4/4	0.80	0.23	210,215,215,215	0
10	BEF	a	1602	4/4	0.80	0.16	235,239,240,241	0
11	SO4	d	1600	5/5	0.80	0.14	106,109,115,118	0
11	SO4	j	1600	5/5	0.81	0.19	79,96,98,100	0
11	SO4	I	600	5/5	0.82	0.18	98,103,110,113	0
9	ADP	M	601	27/27	0.82	0.13	43,113,256,333	0
11	SO4	i	1600	5/5	0.83	0.14	91,94,103,116	0
11	SO4	o	1600	5/5	0.83	0.17	107,107,115,117	0
10	BEF	m	1602	4/4	0.84	0.15	185,193,195,196	0
9	ADP	l	1601	27/27	0.84	0.13	62,105,189,226	0
9	ADP	L	601	27/27	0.85	0.13	102,157,212,241	0
9	ADP	n	1601	27/27	0.86	0.17	27,94,337,491	0
10	BEF	b	1602	4/4	0.86	0.13	154,158,161,163	0
9	ADP	f	1601	27/27	0.87	0.20	13,50,316,499	0
9	ADP	k	2101	27/27	0.88	0.11	80,131,164,321	0
10	BEF	p	1602	4/4	0.88	0.10	84,99,102,108	0
10	BEF	P	602	4/4	0.89	0.10	158,158,158,162	0
9	ADP	E	601	27/27	0.91	0.12	11,102,242,288	0
10	BEF	e	1602	4/4	0.91	0.10	201,205,207,207	0
9	ADP	g	1601	27/27	0.91	0.13	26,159,211,215	0
9	ADP	A	601	27/27	0.91	0.15	46,110,243,330	0
9	ADP	D	601	27/27	0.91	0.11	41,92,238,264	0
9	ADP	e	1601	27/27	0.92	0.09	30,116,232,274	0
9	ADP	J	601	27/27	0.92	0.13	74,85,241,279	0
9	ADP	B	601	27/27	0.92	0.13	62,105,202,218	0
10	BEF	C	1102	4/4	0.92	0.10	104,105,105,120	0
9	ADP	H	601	27/27	0.92	0.10	11,112,145,153	0
9	ADP	a	1601	27/27	0.92	0.13	50,112,239,328	0
9	ADP	m	1601	27/27	0.92	0.11	13,87,195,273	0
9	ADP	b	1601	27/27	0.93	0.11	44,69,220,243	0
9	ADP	h	1601	27/27	0.93	0.11	40,139,153,188	0

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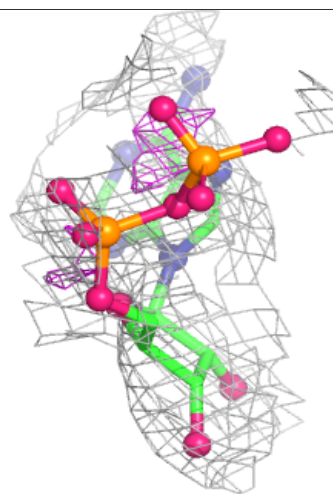
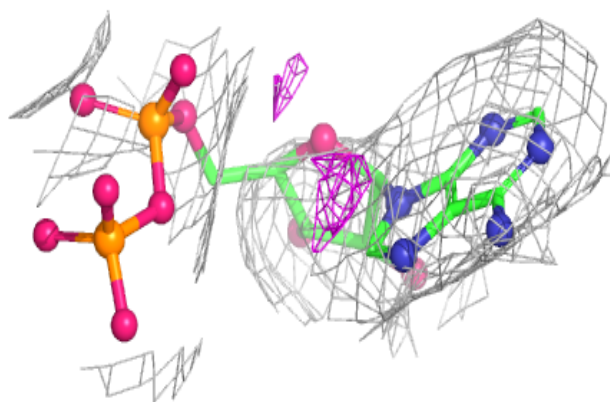
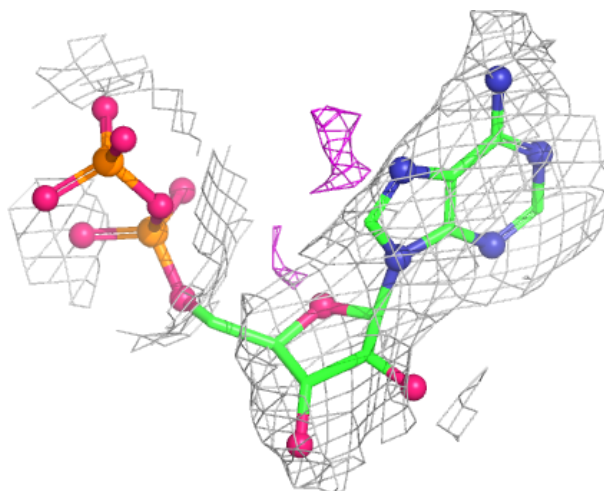
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
9	ADP	p	1601	27/27	0.93	0.10	11,114,136,239	0
9	ADP	P	601	27/27	0.93	0.10	73,153,161,164	0
9	ADP	C	1101	27/27	0.93	0.13	38,135,163,237	0
9	ADP	F	601	27/27	0.94	0.18	11,105,323,481	0
9	ADP	G	601	27/27	0.94	0.12	12,133,240,248	0
9	ADP	N	601	27/27	0.94	0.13	11,88,232,484	0
10	BEF	h	1602	4/4	0.96	0.06	85,93,93,106	0
10	BEF	H	602	4/4	0.96	0.04	101,103,104,110	0
10	BEF	l	1602	4/4	0.97	0.06	28,61,73,75	0
10	BEF	D	602	4/4	0.97	0.05	81,84,91,92	0
10	BEF	k	2102	4/4	0.97	0.05	68,69,80,82	0

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



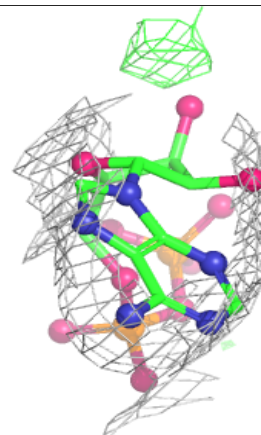
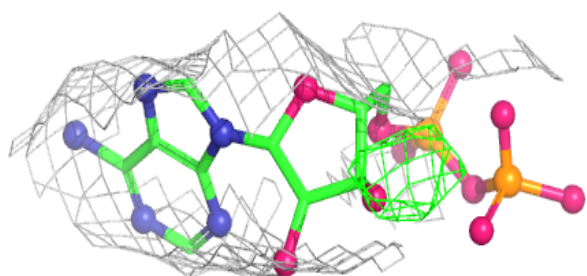
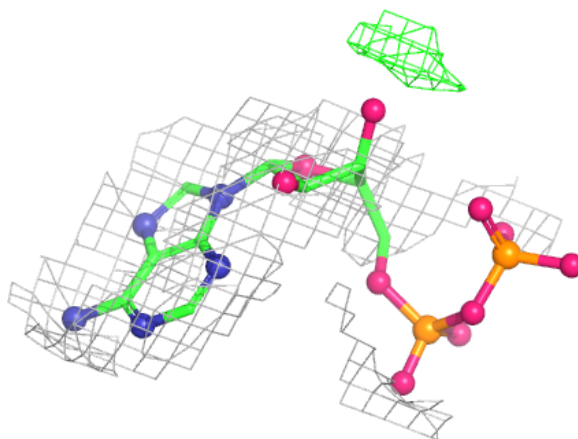
Electron density around ADP 1 1601:

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

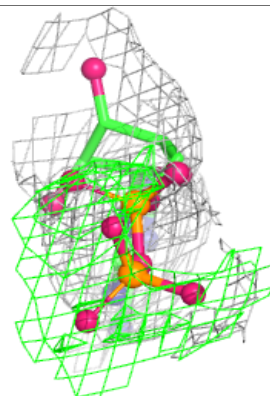
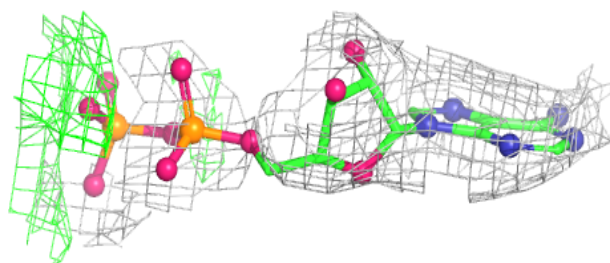
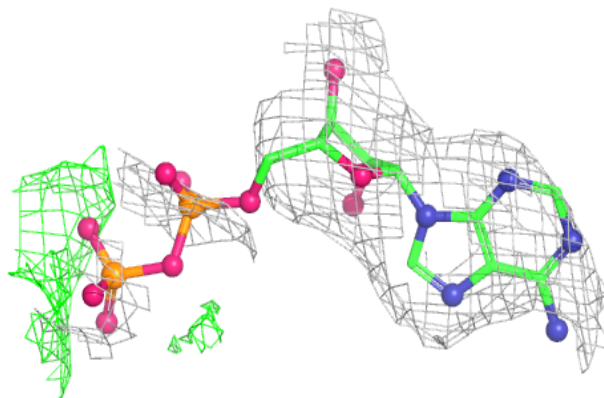


Electron density around ADP L 601:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

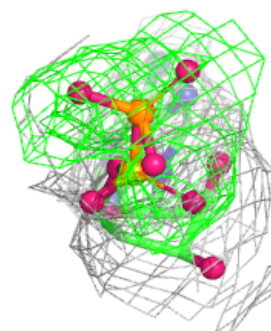
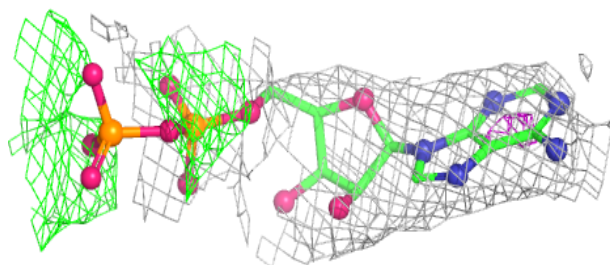
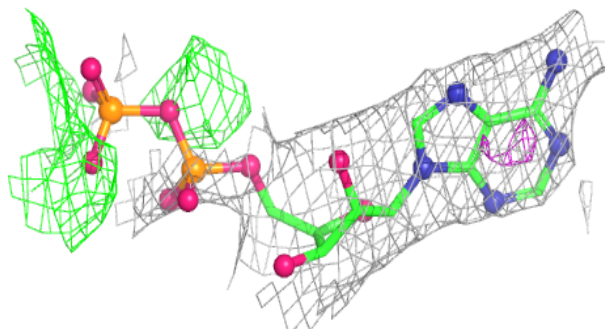
**Electron density around ADP n 1601:**

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and green (positive)



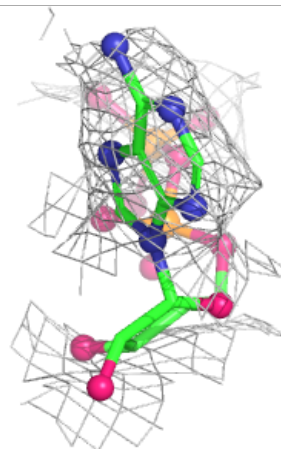
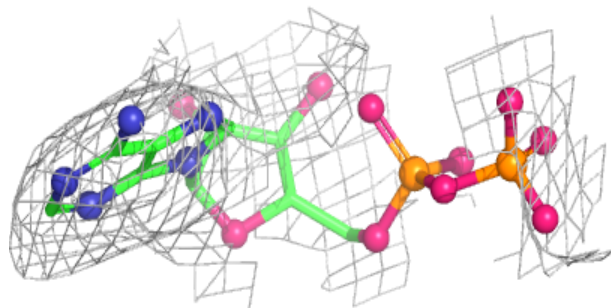
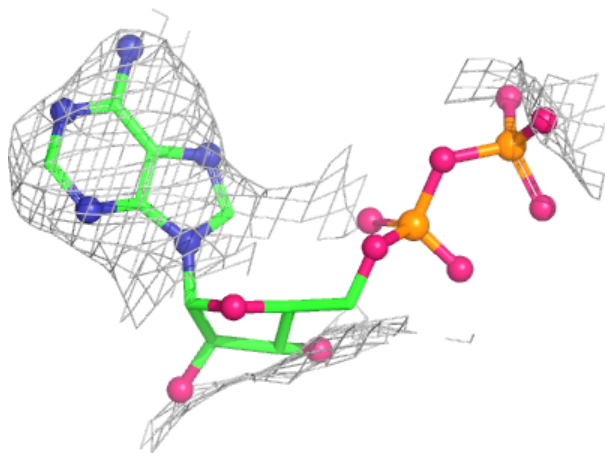
Electron density around ADP f 1601:

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and green (positive)



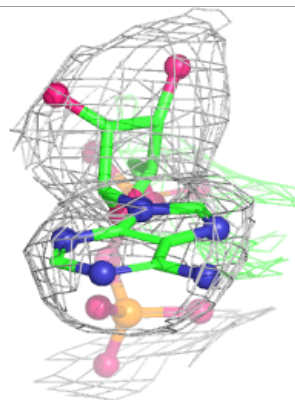
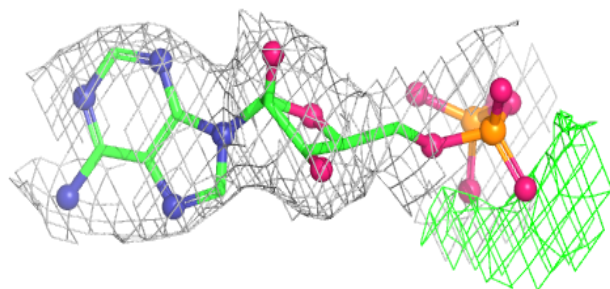
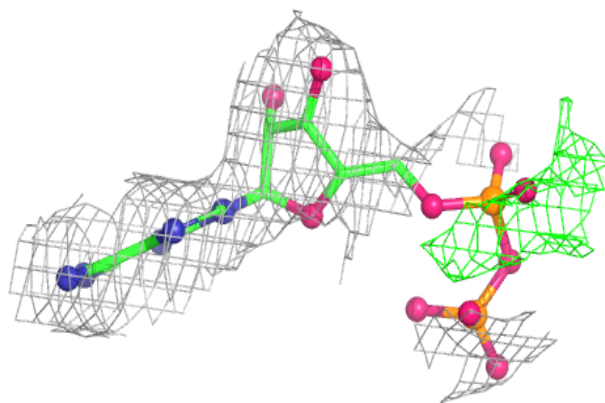
Electron density around ADP k 2101:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

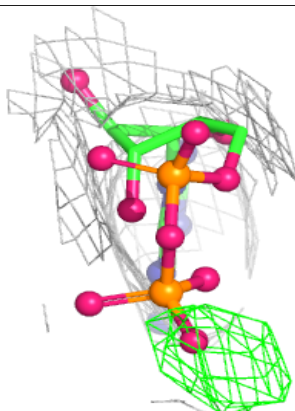
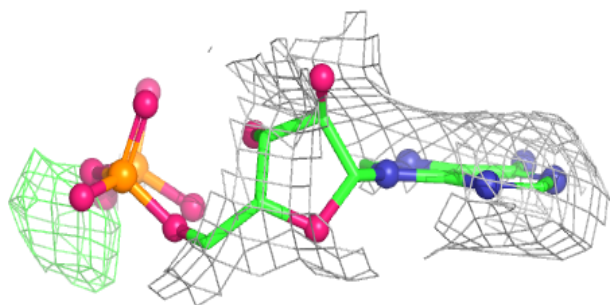
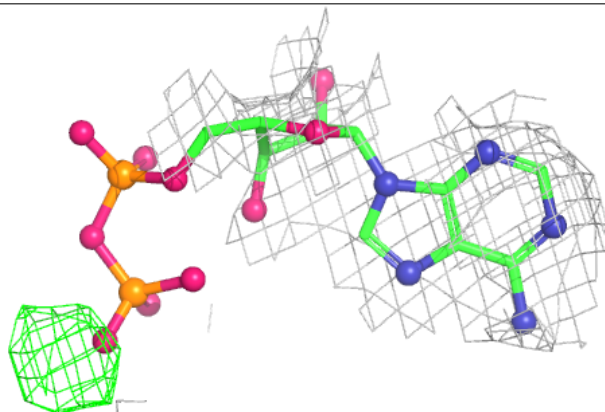


Electron density around ADP E 601:

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and green (positive)

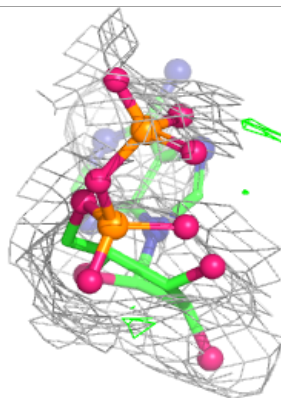
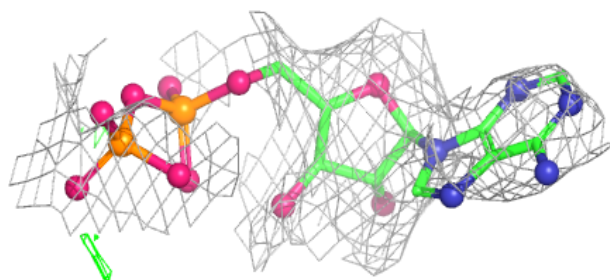
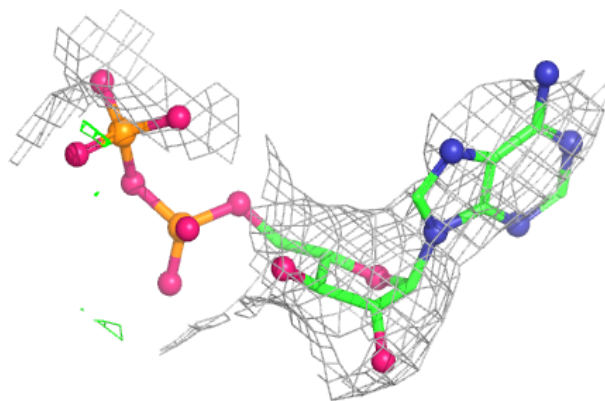
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and green (positive)

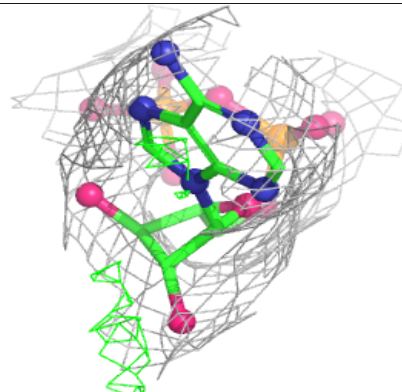
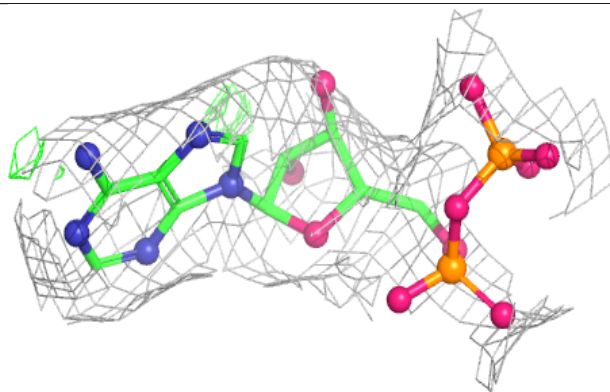
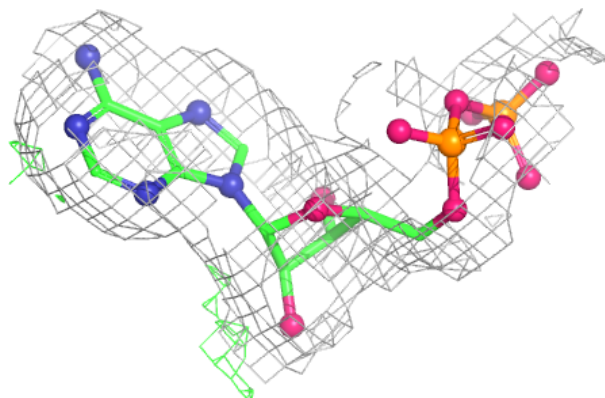


Electron density around ADP A 601:

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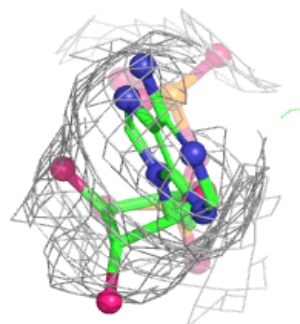
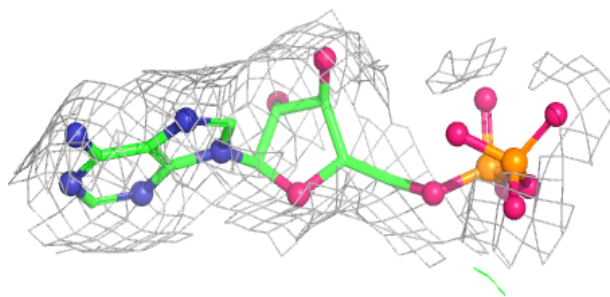
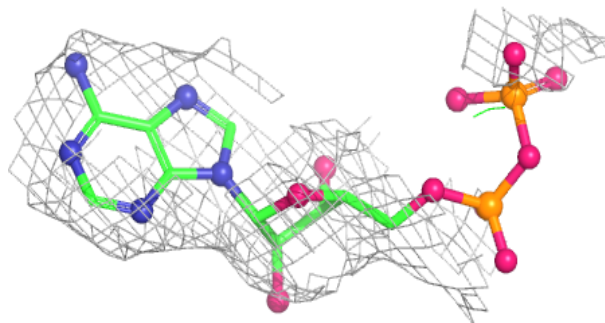
**Electron density around ADP D 601:**

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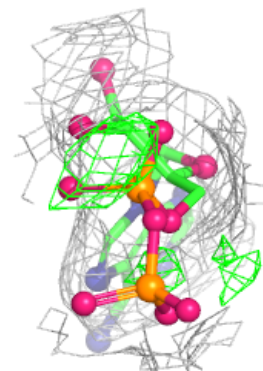
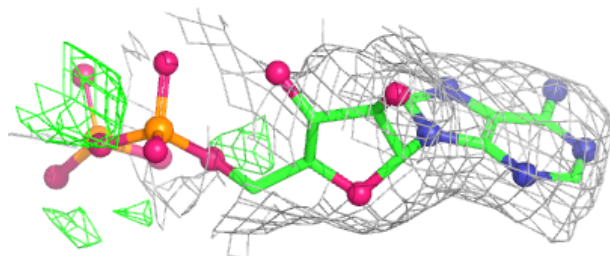
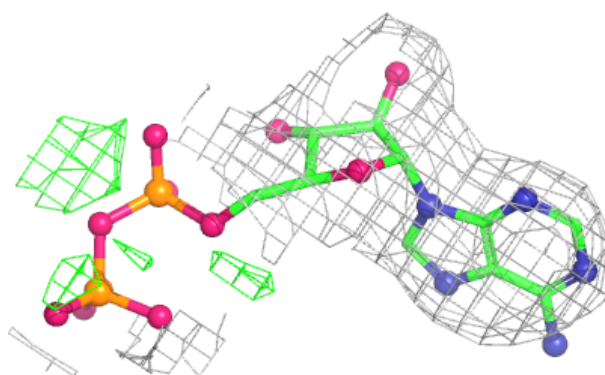


Electron density around ADP e 1601:

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and green (positive)

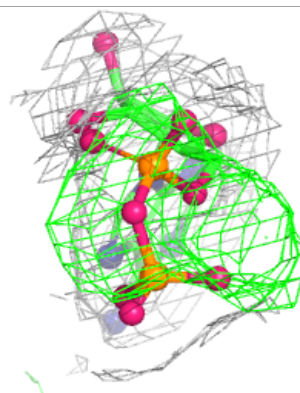
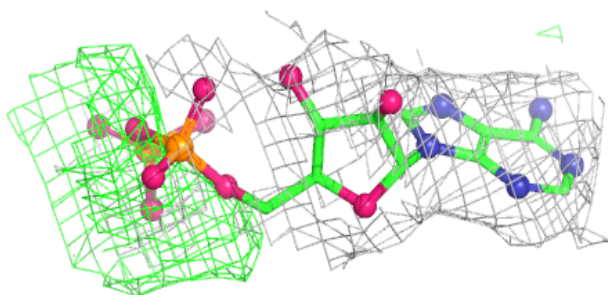
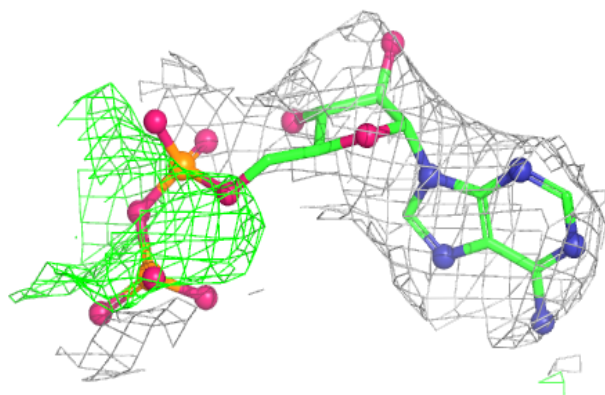
**Electron density around ADP J 601:**

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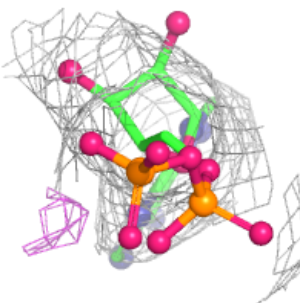
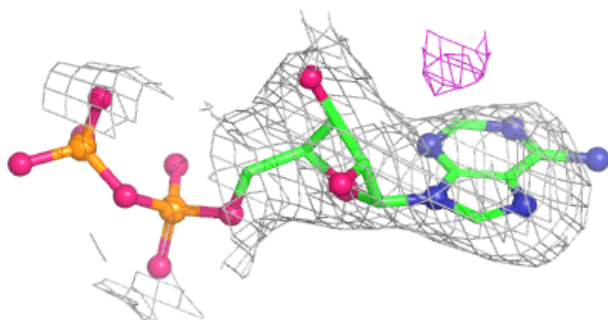
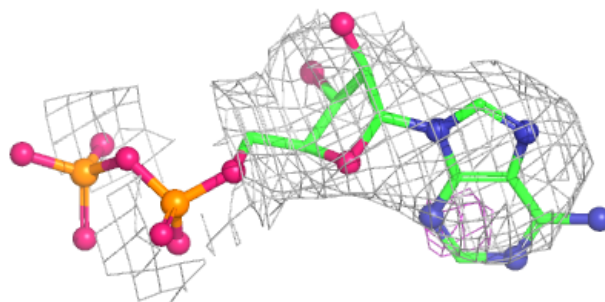


Electron density around ADP B 601:

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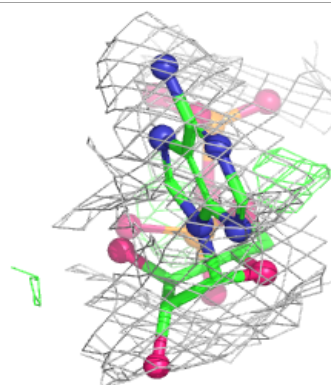
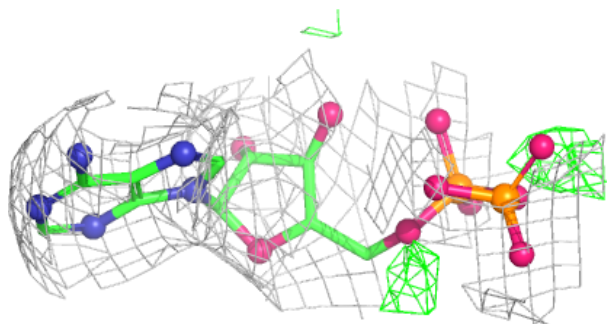
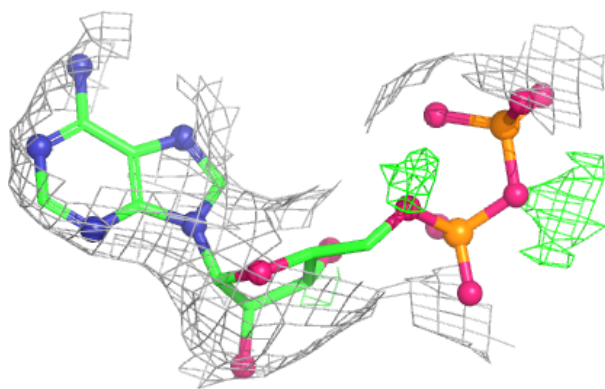
**Electron density around ADP H 601:**

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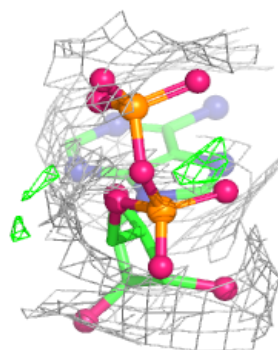
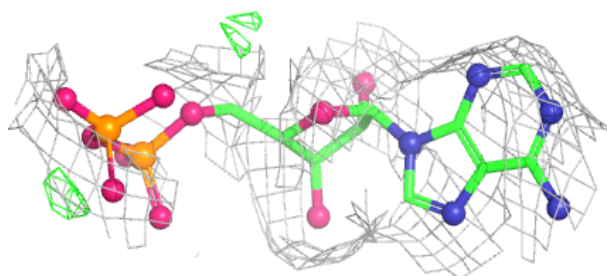
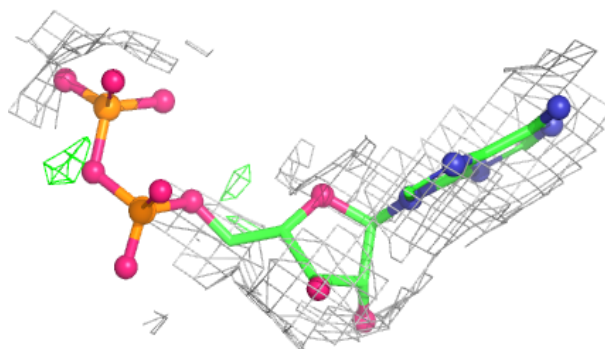


Electron density around ADP a 1601:

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and green (positive)

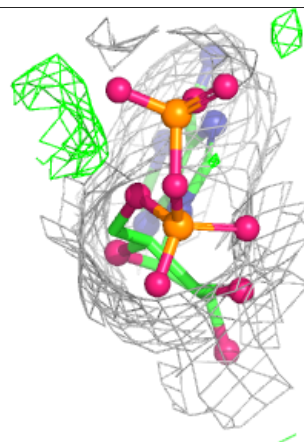
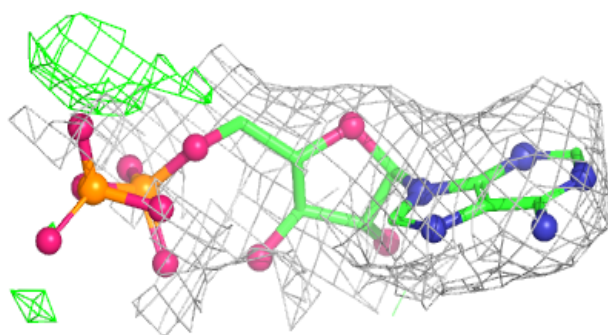
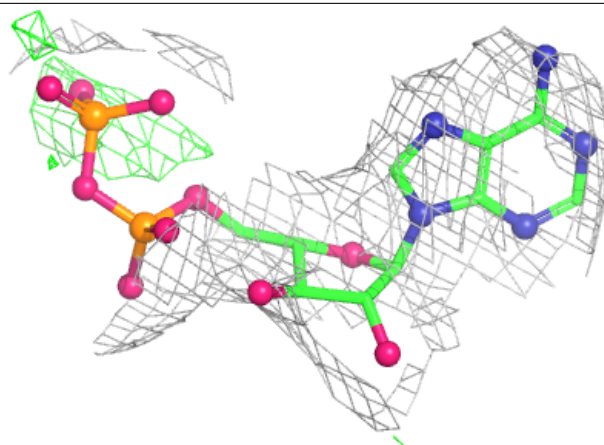
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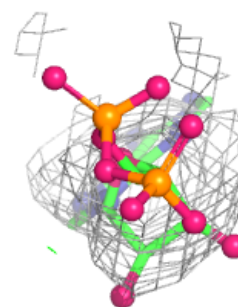
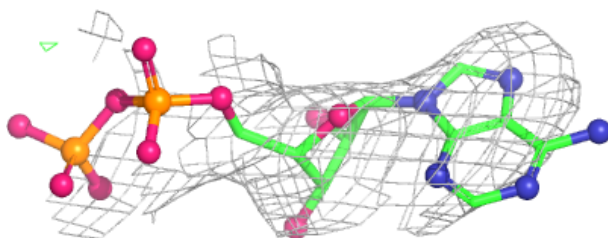
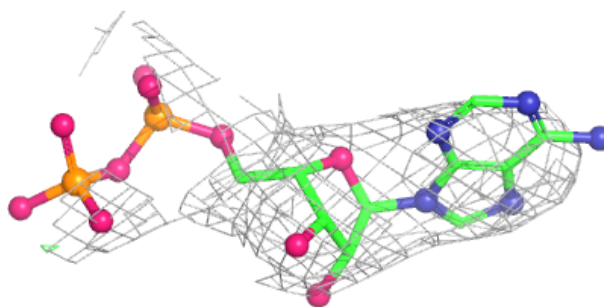


Electron density around ADP b 1601:

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and green (positive)

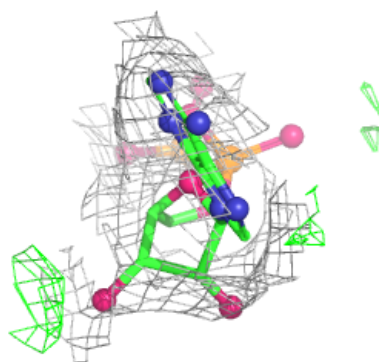
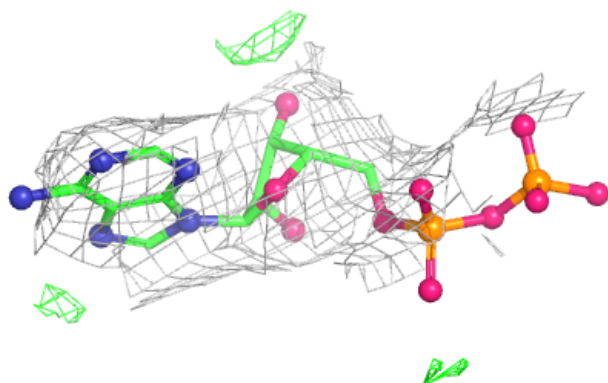
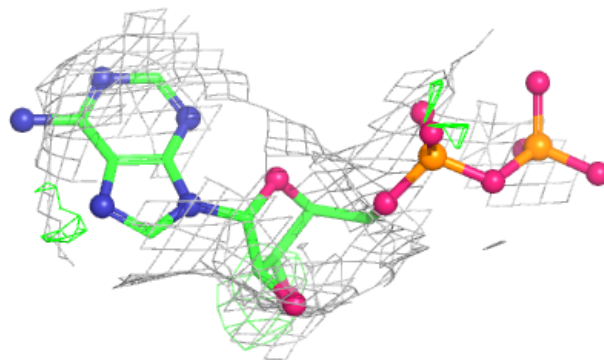
**Electron density around ADP h 1601:**

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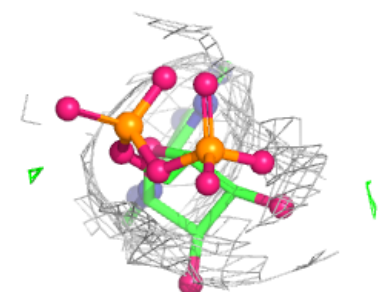
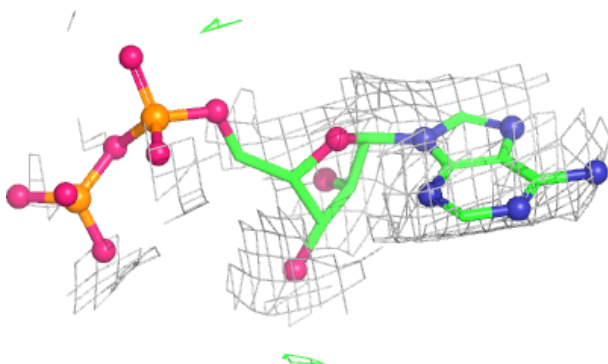
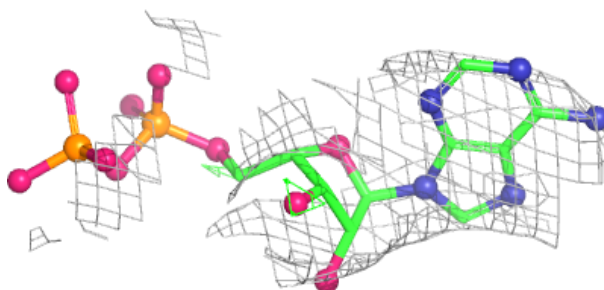


Electron density around ADP p 1601:

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and green (positive)

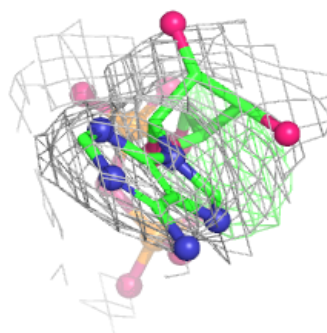
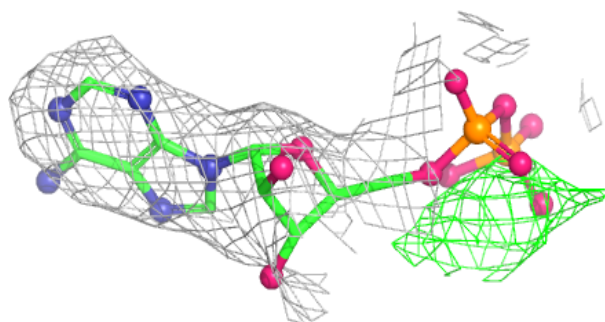
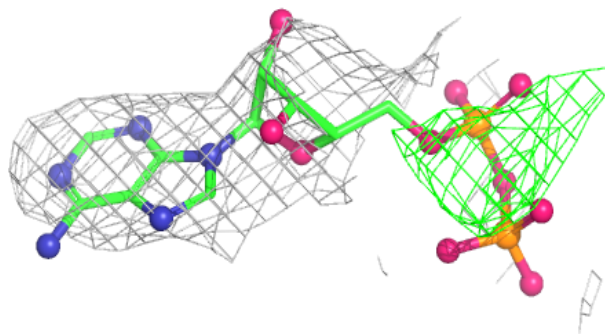
**Electron density around ADP P 601:**

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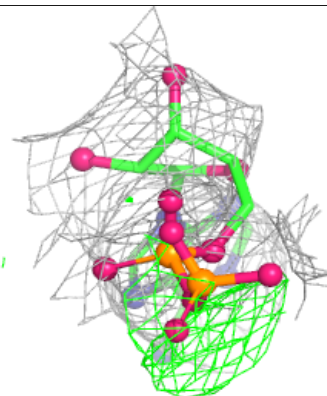
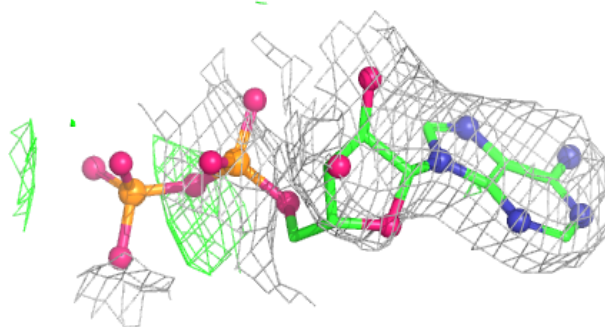
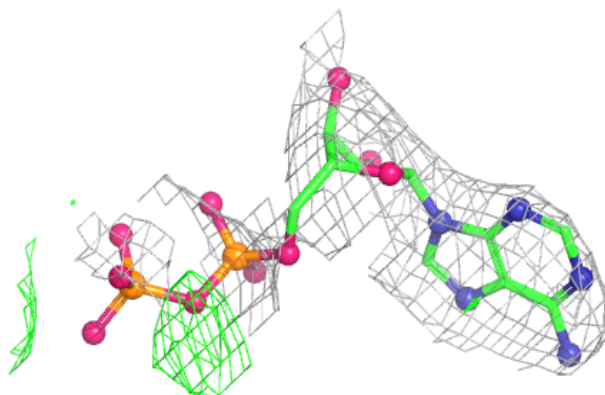


Electron density around ADP C 1101:

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and green (positive)

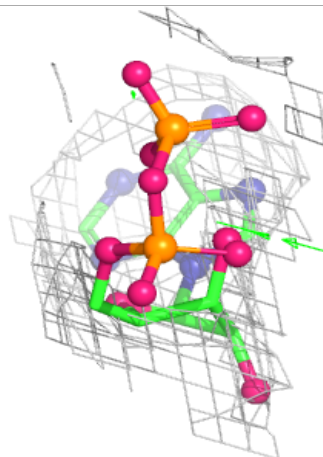
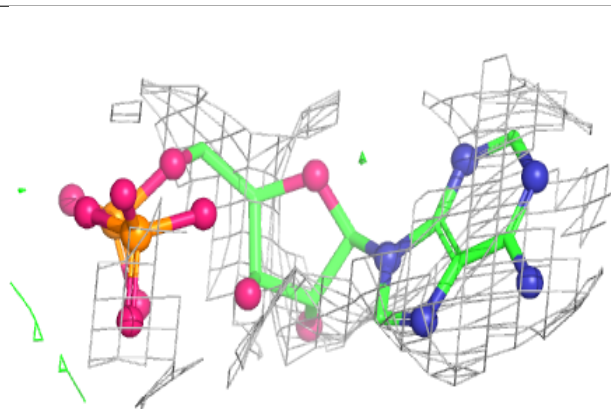
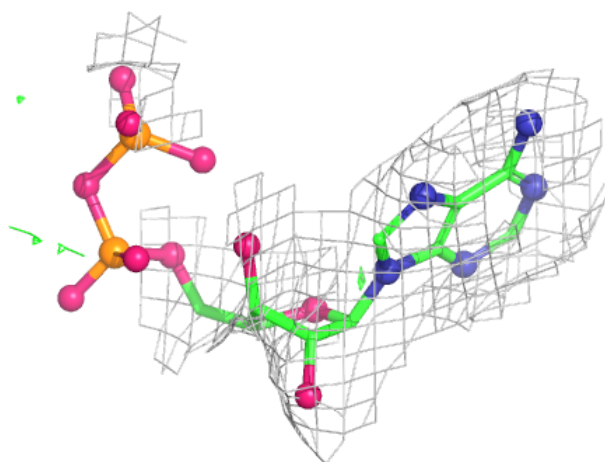
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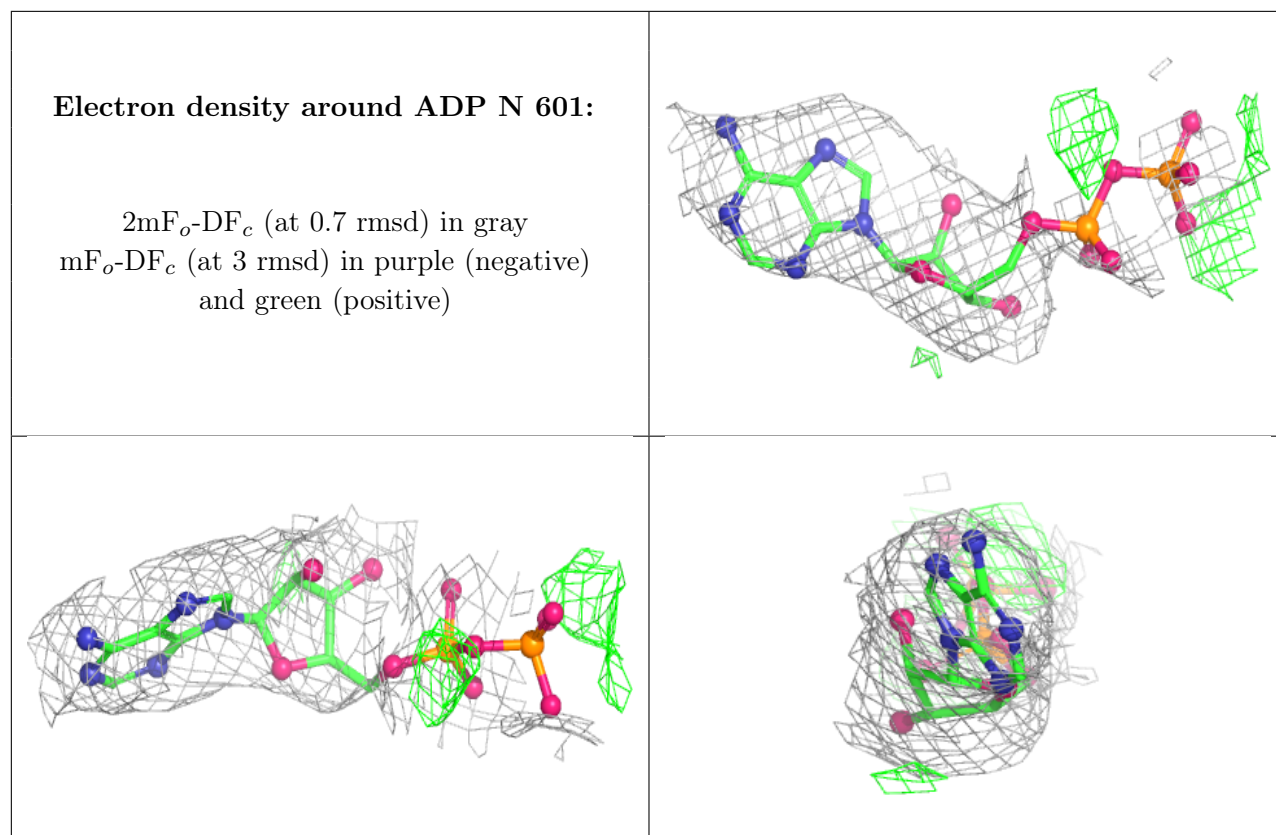
$2mF_o - DF_c$ (at 0.7 rmsd) in gray
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and green (positive)



Electron density around ADP G 601:

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





6.5 Other polymers [i](#)

There are no such residues in this entry.