



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 05:50 PM EDT

PDB ID : 5L5G
Title : Plexin A2 full extracellular region, domains 1 to 8 modeled, data to 10 angstrom
Authors : Janssen, B.J.C.; Kong, Y.; Malinauskas, T.; Vangoor, V.R.; Coles, C.H.; Kaufmann, R.; Ni, T.; Gilbert, R.J.C.; Padilla-Parra, S.; Pasterkamp, R.J.; Jones, E.Y.
Deposited on : 2016-05-28
Resolution : 10.00 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 : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.37.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

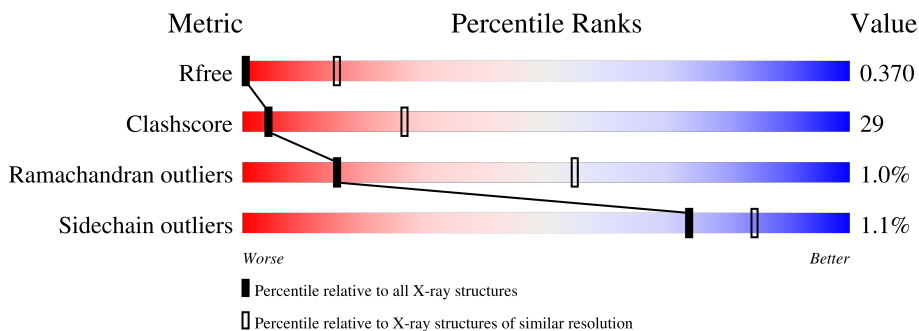
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 10.00 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}	130704	1005 (11.50-3.90)
Clashscore	141614	1071 (15.00-3.90)
Ramachandran outliers	138981	1003 (11.50-3.90)
Sidechain outliers	138945	1003 (11.50-3.86)

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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	1212	51% (green), 23% (yellow), 25% (grey)
1	B	1212	47% (green), 19% (yellow), 33% (grey)
1	C	1212	53% (green), 27% (yellow), 18% (grey)
1	D	1212	54% (green), 27% (yellow), 18% (grey)

2 Entry composition i

There is only 1 type of molecule in this entry. The entry contains 28787 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 Plexin-A2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	906	7060	4461	1214	1333	52	0	0	0
1	B	809	6337	4004	1092	1195	46	0	0	0
1	C	993	7695	4856	1321	1462	56	0	0	0
1	D	993	7695	4856	1321	1462	56	0	0	0

There are 52 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	32	GLU	-	expression tag	UNP P70207
A	1232	GLY	-	expression tag	UNP P70207
A	1233	GLY	-	expression tag	UNP P70207
A	1234	SER	-	expression tag	UNP P70207
A	1235	ARG	-	expression tag	UNP P70207
A	1236	THR	-	expression tag	UNP P70207
A	1237	LYS	-	expression tag	UNP P70207
A	1238	HIS	-	expression tag	UNP P70207
A	1239	HIS	-	expression tag	UNP P70207
A	1240	HIS	-	expression tag	UNP P70207
A	1241	HIS	-	expression tag	UNP P70207
A	1242	HIS	-	expression tag	UNP P70207
A	1243	HIS	-	expression tag	UNP P70207
B	32	GLU	-	expression tag	UNP P70207
B	1232	GLY	-	expression tag	UNP P70207
B	1233	GLY	-	expression tag	UNP P70207
B	1234	SER	-	expression tag	UNP P70207
B	1235	ARG	-	expression tag	UNP P70207
B	1236	THR	-	expression tag	UNP P70207
B	1237	LYS	-	expression tag	UNP P70207
B	1238	HIS	-	expression tag	UNP P70207

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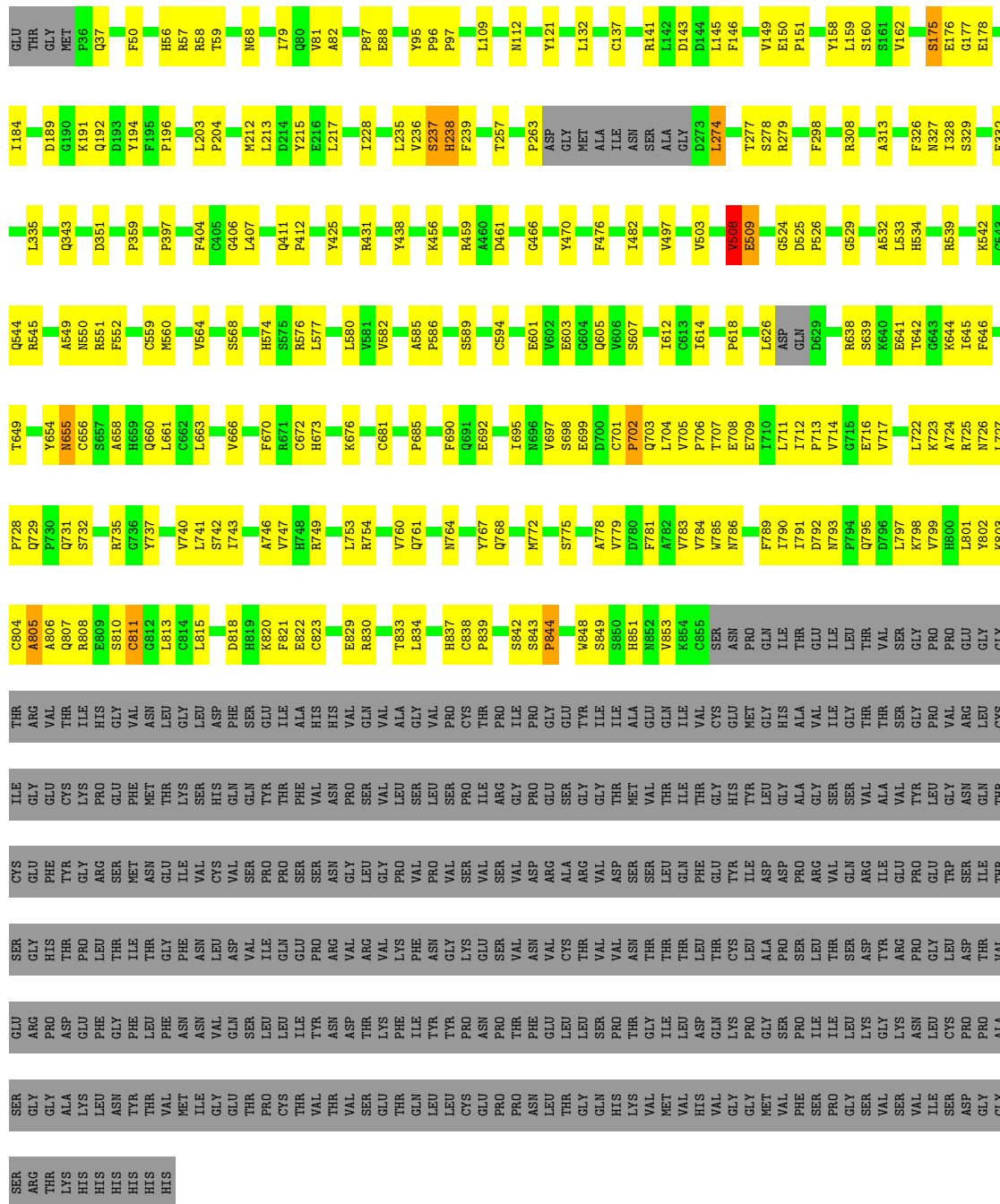
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Chain	Residue	Modelled	Actual	Comment	Reference
B	1239	HIS	-	expression tag	UNP P70207
B	1240	HIS	-	expression tag	UNP P70207
B	1241	HIS	-	expression tag	UNP P70207
B	1242	HIS	-	expression tag	UNP P70207
B	1243	HIS	-	expression tag	UNP P70207
C	32	GLU	-	expression tag	UNP P70207
C	1232	GLY	-	expression tag	UNP P70207
C	1233	GLY	-	expression tag	UNP P70207
C	1234	SER	-	expression tag	UNP P70207
C	1235	ARG	-	expression tag	UNP P70207
C	1236	THR	-	expression tag	UNP P70207
C	1237	LYS	-	expression tag	UNP P70207
C	1238	HIS	-	expression tag	UNP P70207
C	1239	HIS	-	expression tag	UNP P70207
C	1240	HIS	-	expression tag	UNP P70207
C	1241	HIS	-	expression tag	UNP P70207
C	1242	HIS	-	expression tag	UNP P70207
C	1243	HIS	-	expression tag	UNP P70207
D	32	GLU	-	expression tag	UNP P70207
D	1232	GLY	-	expression tag	UNP P70207
D	1233	GLY	-	expression tag	UNP P70207
D	1234	SER	-	expression tag	UNP P70207
D	1235	ARG	-	expression tag	UNP P70207
D	1236	THR	-	expression tag	UNP P70207
D	1237	LYS	-	expression tag	UNP P70207
D	1238	HIS	-	expression tag	UNP P70207
D	1239	HIS	-	expression tag	UNP P70207
D	1240	HIS	-	expression tag	UNP P70207
D	1241	HIS	-	expression tag	UNP P70207
D	1242	HIS	-	expression tag	UNP P70207
D	1243	HIS	-	expression tag	UNP P70207

HIS VAL GLY MET VAL PHE SER PRO GLY VAL ILE SER ASP GLY GLY VAL VAL ILE SER ASP GLY GLY VAL VAL ILE SER ASP GLY HIS HIS HIS HIS HIS

• Molecule 1: Plexin-A2

Chain B: 47% 19% 33%



• Molecule 1: Plexin-A2

Chain C: 53% 27% 18%

GLU	THR	GLY	MET	Q36	Q37	F50	H56	H57	H58	T59	M68	I79	Q80	V81	A82	P87	E88	Y95	P96	P97	L109	M112	Y121	L132	L137	R141	L142	D143	L144	L145	F146	V149	E150	P151	Y158	L159	S160	V162	S175	E176	G177	E178										
L184	D189	G190	K191	Q192	D193	Y194	F195	P196	L203	P204	M212	L213	D214	Y215	I228	L235	V236	S237	H238	F239	P263	ASP	GLY	MET	ALA	ILE	ASN	SER	ALA	GLY	D273	L274	T277	S278	R279	F298	R308	A313	Y314	L315	F326	N327	I328	S329	E332	D333	V334					
L335	Q343	P349	R351	D351	C559	M560	F564	F404	G406	L407	Q411	P412	T417	P418	Y425	R431	Y438	V445	K456	D461	G466	Y470	F476	I482	V497	V503	V508	E509	L661	C656	S657	Q660	L661	C662	L663	V666	C672	H673	R539	K542	C543											
Q644	R645	N550	R551	F552	C559	M560	V564	F404	G406	L407	Q411	P412	T417	P418	Y425	R431	Y438	V445	K456	D461	G466	Y470	F476	I482	V497	V503	V508	E509	L661	C656	S657	Q660	L661	C662	L663	V666	C672	H673	R539	K542	C543											
P685	V697	E699	F552	C701	F702	Q703	L704	V705	T707	E708	E709	L711	D784	A785	P786	L713	G715	L722	K723	A724	ASP	GLN	D629	R638	S639	E641	T642	G643	K644	I645	T649	N655	C656	S657	Q660	L661	C662	L663	V666	C672	H673	R539	K542	C543								
I774	S775	A778	V779	D780	F781	A782	V783	L784	M786	F789	L790	I791	D792	A793	P794	G795	D796	L797	K798	E800	L801	R802	K803	C804	A805	A806	Q807	R808	E809	E641	T642	G643	K644	I645	T649	N655	C656	S657	Q660	L661	C662	L663	V666	C672	H673	R539	K542	C543				
P844	W848	S850	H851	H852	H853	R854	C855	S856	Q859	T863	L864	T865	G868	F869	P870	E871	G872	V873	H880	L801	R802	K803	C804	A805	A806	Q807	R808	E809	E641	T642	G643	K644	I645	T649	N655	C656	S657	Q660	L661	C662	L663	V666	C672	H673	R539	K542	C543					
V915	C916	E917	M918	G919	H920	A921	V922	R923	G924	R931	L932	C933	I934	G935	E936	K938	P939	F941	M942	T943	K944	S945	H946	Q947	Q948	Y949	V881	L882	L883	G884	S885	V886	F887	I890	A891	H892	H893	V894	W896	A897	E829	C823	R830	T833	L834	H835	Q836	H837	C838	P839	S842	S843
N991	Q992	T993	C994	E995	F996	Y997	G998	R999	G924	R931	L932	C933	I934	G935	E936	K938	P939	F941	M942	T943	K944	S945	H946	Q947	Q948	Y949	V881	L882	L883	G884	S885	V886	F887	I890	A891	H892	H893	V894	W896	A897	E829	C823	R830	T833	L834	H835	Q836	H837	C838	P839	S842	S843
SER	GLY	HIS	PRO	GLU	PRO	THR	ILE	THR	THR	GLY	PHE	ASN	ASN	LEU	ASP	VAL	VAL	GLN	GLU	PRO	ARG	ASN	VAL	VAL	VAL	VAL	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR
GLU	ARG	PRO	ASP	GLU	PHE	GLY	PHE	LEU	THR	ASN	ASN	VAL	GLN	SER	THR	SER	THR	LEU	CYS	THR	TYR	ASN	ASP	VAL	VAL	VAL	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	
SER	GLY	GLY	ALA	LYS	LEU	ASN	TYR	THR	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS

● Molecule 1: Plexin-A2



GLU	THR	GLY	MET	Q37	F50	H56	R57	H58	T59	M68	I79	Q80	V81	A82	H83	P87	E88	Y95	P96	P97	L109	M112	Y121	L132	L137	R141	L142	D143	L144	L145	F146	I147	L148	V149	E150	P151	Y158	L159	S160	V162	S175	E176	G177						
E178	I184	D189	G190	K191	Q192	D193	Y194	F195	P196	L203	P204	M212	L213	Q214	Y215	I228	L235	V236	S237	H238	F239	P263	ASP	GLY	MET	ALA	ILE	ASN	SER	ALA	GLY	D273	L274	T277	S278	R279	F298	R308	L309	A313	Y314	L315	F326	N327	I328	S329	E332	D333	V334

4 Data and refinement statistics i

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	238.40Å 238.40Å 642.18Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	63.05 – 10.00 63.05 – 10.00	Depositor EDS
% Data completeness (in resolution range)	92.5 (63.05-10.00) 92.6 (63.05-10.00)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtrriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.335 , 0.370 0.336 , 0.370	Depositor DCC
R_{free} test set	529 reflections (4.75%)	wwPDB-VP
Wilson B-factor (Å ²)	(Not available)	Xtrriage
Anisotropy	(Not available)	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.22 , 306.7	EDS
L-test for twinning ¹	$\langle L \rangle =$ (Not available), $\langle L^2 \rangle =$ (Not available)	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.70	EDS
Total number of atoms	28787	wwPDB-VP
Average B, all atoms (Å ²)	236.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *(Not available)*

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

5 Model quality i

5.1 Standard geometry i

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	0.68	4/7230 (0.1%)	0.74	8/9821 (0.1%)
1	B	0.64	3/6488 (0.0%)	0.89	7/8804 (0.1%)
1	C	0.65	7/7878 (0.1%)	0.94	13/10705 (0.1%)
1	D	0.68	8/7879 (0.1%)	1.02	23/10708 (0.2%)
All	All	0.66	22/29475 (0.1%)	0.91	51/40038 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	1
1	C	0	4
1	D	0	4
All	All	0	11

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	702	PRO	C-N	26.25	1.94	1.34
1	A	508	VAL	C-N	-24.18	0.78	1.34
1	A	702	PRO	C-N	24.13	1.89	1.34
1	D	655	ASN	C-N	-16.53	0.96	1.34
1	B	655	ASN	C-N	16.05	1.71	1.34
1	D	508	VAL	C-N	-15.27	0.98	1.34
1	B	508	VAL	C-N	-15.08	0.99	1.34
1	D	952	VAL	C-N	14.06	1.66	1.34
1	C	701	CYS	C-N	13.82	1.60	1.34
1	C	508	VAL	C-N	-11.74	1.07	1.34
1	D	988	TYR	CB-CG	-11.45	1.34	1.51
1	C	988	TYR	CB-CG	-11.43	1.34	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	701	CYS	C-N	-7.54	1.20	1.34
1	A	803	LYS	C-N	-6.78	1.18	1.34
1	D	559	CYS	C-N	6.25	1.48	1.34
1	C	803	LYS	C-N	-6.09	1.20	1.34
1	C	988	TYR	CD1-CE1	-5.94	1.30	1.39
1	D	988	TYR	CD1-CE1	-5.92	1.30	1.39
1	C	952	VAL	C-N	-5.51	1.21	1.34
1	D	803	LYS	C-N	5.43	1.46	1.34
1	D	988	TYR	CA-CB	5.16	1.65	1.53
1	C	988	TYR	CA-CB	5.09	1.65	1.53

All (51) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	702	PRO	O-C-N	-44.19	51.99	122.70
1	C	988	TYR	CB-CG-CD1	-34.32	100.41	121.00
1	D	988	TYR	CB-CG-CD1	-34.12	100.53	121.00
1	B	508	VAL	O-C-N	-33.23	69.54	122.70
1	C	803	LYS	O-C-N	-31.50	72.31	122.70
1	D	559	CYS	O-C-N	-30.43	74.01	122.70
1	C	988	TYR	CG-CD2-CE2	-20.96	104.53	121.30
1	D	988	TYR	CG-CD2-CE2	-20.93	104.56	121.30
1	D	988	TYR	CA-CB-CG	-19.39	76.55	113.40
1	C	988	TYR	CA-CB-CG	-19.37	76.60	113.40
1	C	988	TYR	CD1-CG-CD2	16.26	135.78	117.90
1	D	988	TYR	CD1-CG-CD2	16.17	135.69	117.90
1	D	701	CYS	O-C-N	15.93	151.37	121.10
1	D	952	VAL	O-C-N	-14.95	98.79	122.70
1	D	508	VAL	CA-C-N	-14.47	85.36	117.20
1	D	508	VAL	O-C-N	13.46	144.24	122.70
1	D	559	CYS	CA-C-N	12.75	145.25	117.20
1	B	508	VAL	CA-C-N	12.52	144.74	117.20
1	D	508	VAL	C-N-CA	-11.89	91.97	121.70
1	D	701	CYS	CA-C-N	-11.40	85.18	117.10
1	D	701	CYS	C-N-CD	11.34	152.21	128.40
1	A	702	PRO	O-C-N	-11.10	104.94	122.70
1	A	508	VAL	O-C-N	-10.48	105.93	122.70
1	B	702	PRO	C-N-CA	10.32	147.50	121.70
1	D	559	CYS	C-N-CA	9.34	145.06	121.70
1	C	988	TYR	CG-CD1-CE1	-9.29	113.86	121.30
1	D	988	TYR	CG-CD1-CE1	-9.26	113.89	121.30
1	A	701	CYS	CA-C-N	-9.25	91.19	117.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	702	PRO	CA-C-N	9.15	137.34	117.20
1	D	803	LYS	C-N-CA	-8.45	100.58	121.70
1	D	701	CYS	C-N-CA	-8.42	86.63	122.00
1	C	844	PRO	N-CA-C	8.24	133.52	112.10
1	B	844	PRO	N-CA-C	8.23	133.50	112.10
1	A	844	PRO	N-CA-C	8.23	133.50	112.10
1	D	844	PRO	N-CA-C	8.23	133.50	112.10
1	A	508	VAL	C-N-CA	8.20	142.21	121.70
1	A	855	CYS	O-C-N	-8.11	109.73	122.70
1	D	952	VAL	CA-C-N	7.39	133.45	117.20
1	D	952	VAL	C-N-CA	7.36	140.10	121.70
1	A	508	VAL	CA-C-N	7.04	132.68	117.20
1	D	803	LYS	CA-C-N	-6.78	102.29	117.20
1	A	701	CYS	C-N-CA	-6.45	94.92	122.00
1	B	508	VAL	C-N-CA	6.45	137.82	121.70
1	C	803	LYS	C-N-CA	-5.97	106.78	121.70
1	C	655	ASN	C-N-CA	-5.81	107.17	121.70
1	D	988	TYR	CD1-CE1-CZ	-5.79	114.59	119.80
1	C	988	TYR	CD1-CE1-CZ	-5.74	114.64	119.80
1	C	655	ASN	CA-C-N	-5.61	104.87	117.20
1	D	990	GLY	C-N-CA	5.51	135.47	121.70
1	C	990	GLY	C-N-CA	5.50	135.45	121.70
1	C	655	ASN	O-C-N	5.17	130.98	122.70

There are no chirality outliers.

All (11) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	701	CYS	Mainchain
1	A	855	CYS	Mainchain
1	B	508	VAL	Mainchain
1	C	508	VAL	Mainchain
1	C	803	LYS	Mainchain
1	C	952	VAL	Mainchain
1	C	988	TYR	Sidechain
1	D	508	VAL	Mainchain
1	D	559	CYS	Mainchain
1	D	803	LYS	Mainchain
1	D	988	TYR	Sidechain

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	7060	0	6854	430	9
1	B	6337	0	6141	353	8
1	C	7695	0	7466	460	5
1	D	7695	0	7468	492	4
All	All	28787	0	27929	1661	13

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 29.

All (1661) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:463:PRO:HG2	1:B:612:ILE:CG2	1.25	1.55
1:A:407:LEU:CD2	1:C:944:LYS:HD2	1.03	1.48
1:D:533:LEU:CD1	1:D:642:THR:HG23	1.41	1.48
1:A:407:LEU:CD2	1:C:944:LYS:CD	1.93	1.43
1:A:702:PRO:O	1:A:703:GLN:CG	1.65	1.41
1:B:655:ASN:C	1:B:656:CYS:N	1.71	1.40
1:B:533:LEU:CD2	1:B:646:PHE:CG	2.09	1.36
1:C:551:ARG:NH1	1:C:641:GLU:OE2	1.60	1.34
1:B:663:LEU:HD11	1:B:703:GLN:NE2	1.41	1.33
1:B:549:ALA:O	1:B:586:PRO:CB	1.75	1.32
1:D:533:LEU:CB	1:D:642:THR:HG21	1.59	1.30
1:D:533:LEU:O	1:D:644:LYS:HB2	1.32	1.30
1:A:508:VAL:O	1:A:509:GLU:N	1.63	1.28
1:C:663:LEU:HD11	1:C:792:ASP:OD2	1.32	1.27
1:A:407:LEU:HD21	1:C:944:LYS:CD	1.56	1.27
1:B:533:LEU:HD23	1:B:646:PHE:CG	1.67	1.25
1:D:550:ASN:HB2	1:D:586:PRO:CB	1.65	1.25
1:B:775:SER:N	1:B:807:GLN:OE1	1.67	1.25
1:A:702:PRO:C	1:A:703:GLN:N	1.89	1.25
1:B:550:ASN:ND2	1:B:585:ALA:O	1.70	1.24
1:D:550:ASN:CB	1:D:586:PRO:HB3	1.66	1.24
1:A:422:LEU:CD1	1:B:605:GLN:HG2	1.68	1.23
1:A:463:PRO:CG	1:B:612:ILE:CG2	2.18	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:663:LEU:CD1	1:C:792:ASP:OD2	1.90	1.20
1:D:533:LEU:CD1	1:D:642:THR:CG2	2.21	1.19
1:B:549:ALA:O	1:B:586:PRO:HB3	1.02	1.17
1:D:663:LEU:HD12	1:D:792:ASP:CB	1.73	1.17
1:D:775:SER:CB	1:D:807:GLN:HG3	1.72	1.17
1:B:533:LEU:CD2	1:B:646:PHE:CD1	2.28	1.17
1:C:533:LEU:HB3	1:C:642:THR:HG21	1.24	1.17
1:A:508:VAL:C	1:A:509:GLU:CA	2.13	1.16
1:B:778:ALA:HB1	1:B:798:LYS:HD2	1.15	1.14
1:D:533:LEU:HB3	1:D:642:THR:CG2	1.76	1.14
1:A:655:ASN:HB3	1:A:658:ALA:HB2	1.15	1.13
1:D:778:ALA:HB1	1:D:798:LYS:HD2	1.15	1.13
1:B:533:LEU:HD22	1:B:646:PHE:CD1	1.82	1.13
1:B:545:ARG:NH1	1:B:641:GLU:OE2	1.80	1.13
1:B:663:LEU:CD1	1:B:703:GLN:NE2	2.12	1.13
1:A:810:SER:HB2	1:A:882:ASN:OD1	1.49	1.12
1:C:702:PRO:HB3	1:C:728:PRO:HD3	1.18	1.11
1:A:655:ASN:C	1:A:656:CYS:N	2.03	1.11
1:C:932:LEU:HB3	1:C:943:THR:HG22	1.33	1.11
1:D:534:HIS:HA	1:D:644:LYS:HG3	1.32	1.11
1:D:932:LEU:HB3	1:D:943:THR:HG22	1.32	1.11
1:A:932:LEU:HB3	1:A:943:THR:HG22	1.33	1.10
1:D:533:LEU:HD12	1:D:642:THR:HG23	1.16	1.10
1:A:325:ALA:HB2	1:B:577:LEU:HD13	1.12	1.10
1:C:778:ALA:HB1	1:C:798:LYS:HD2	1.15	1.10
1:A:532:ALA:HB1	1:A:560:MET:HE3	1.23	1.10
1:A:778:ALA:HB1	1:A:798:LYS:HD2	1.15	1.10
1:A:407:LEU:HD22	1:C:944:LYS:HD2	1.24	1.10
1:A:508:VAL:CA	1:A:509:GLU:N	2.14	1.10
1:C:677:TYR:CD1	1:C:731:GLN:HG3	1.86	1.09
1:A:325:ALA:HB2	1:B:577:LEU:CD1	1.82	1.09
1:D:533:LEU:HB3	1:D:642:THR:HG21	1.20	1.09
1:D:533:LEU:HD13	1:D:642:THR:HG23	1.19	1.09
1:A:532:ALA:HB1	1:A:560:MET:CE	1.83	1.09
1:A:463:PRO:HG2	1:B:612:ILE:HG22	1.10	1.08
1:B:532:ALA:HB1	1:B:560:MET:HE3	1.29	1.08
1:D:815:LEU:HD23	1:D:853:VAL:HG11	1.33	1.08
1:A:463:PRO:HG2	1:B:612:ILE:CB	1.83	1.07
1:D:958:SER:HA	1:D:1033:LEU:HD22	1.34	1.07
1:B:815:LEU:HD23	1:B:853:VAL:HG11	1.33	1.07
1:C:815:LEU:HD23	1:C:853:VAL:HG11	1.33	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:533:LEU:HD22	1:D:639:SER:CB	1.84	1.06
1:B:692:GLU:CD	1:D:141:ARG:HH22	1.57	1.06
1:C:958:SER:HA	1:C:1033:LEU:HD22	1.34	1.06
1:D:533:LEU:CD2	1:D:639:SER:CB	2.34	1.06
1:D:775:SER:HB2	1:D:807:GLN:HG3	1.37	1.06
1:A:702:PRO:C	1:A:703:GLN:HG3	1.76	1.05
1:A:463:PRO:CG	1:B:612:ILE:HG22	1.83	1.05
1:A:463:PRO:HG2	1:B:612:ILE:HG21	1.33	1.05
1:A:325:ALA:CB	1:B:577:LEU:HD13	1.87	1.04
1:D:550:ASN:HD22	1:D:586:PRO:HA	1.14	1.04
1:A:655:ASN:O	1:A:658:ALA:HB3	1.57	1.04
1:A:815:LEU:HD23	1:A:853:VAL:HG11	1.33	1.04
1:B:533:LEU:HD23	1:B:646:PHE:CD2	1.92	1.03
1:A:464:PRO:HB3	1:B:603:GLU:O	1.56	1.03
1:A:559:CYS:C	1:A:560:MET:N	2.11	1.03
1:B:803:LYS:C	1:B:804:CYS:N	2.12	1.01
1:C:959:LEU:HG	1:C:974:ILE:HG22	1.41	1.01
1:D:533:LEU:HD22	1:D:639:SER:HB3	1.41	1.01
1:D:661:LEU:HD21	1:D:790:ILE:HD11	1.40	1.00
1:D:959:LEU:HG	1:D:974:ILE:HG22	1.41	1.00
1:B:692:GLU:OE2	1:D:141:ARG:NH2	1.94	1.00
1:C:551:ARG:NH1	1:C:641:GLU:CD	2.15	1.00
1:A:676:LYS:HE2	1:A:728:PRO:HB3	1.43	1.00
1:B:676:LYS:HE2	1:B:728:PRO:HB3	1.42	1.00
1:A:407:LEU:HD23	1:C:944:LYS:HD2	1.43	0.99
1:B:663:LEU:HD11	1:B:703:GLN:HE22	0.85	0.99
1:C:775:SER:N	1:C:806:ALA:HB3	1.78	0.99
1:D:533:LEU:HD21	1:D:639:SER:HB2	1.42	0.98
1:D:534:HIS:CD2	1:D:644:LYS:HZ3	1.81	0.98
1:C:533:LEU:HB3	1:C:642:THR:CG2	1.93	0.98
1:D:959:LEU:HD13	1:D:1033:LEU:HD23	1.44	0.98
1:C:959:LEU:HD13	1:C:1033:LEU:HD23	1.44	0.98
1:D:533:LEU:CD2	1:D:639:SER:HB2	1.91	0.98
1:A:655:ASN:CB	1:A:658:ALA:HB2	1.94	0.98
1:D:533:LEU:CB	1:D:642:THR:CG2	2.37	0.98
1:B:532:ALA:HB1	1:B:560:MET:CE	1.93	0.97
1:A:863:ILE:HD12	1:A:878:ILE:HG12	1.46	0.97
1:A:810:SER:HB2	1:A:882:ASN:CG	1.85	0.97
1:C:663:LEU:HD11	1:C:792:ASP:CG	1.85	0.97
1:D:729:GLN:HG3	1:D:754:ARG:HH12	1.26	0.97
1:A:397:PRO:HB2	1:C:947:GLN:HE22	1.25	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:729:GLN:HG3	1:A:754:ARG:HH12	1.26	0.97
1:C:805:ALA:HB1	1:C:808:ARG:H	1.30	0.97
1:D:663:LEU:CD1	1:D:792:ASP:OD2	2.12	0.97
1:D:863:ILE:HD12	1:D:878:ILE:HG12	1.45	0.97
1:A:407:LEU:HD23	1:C:944:LYS:CE	1.95	0.96
1:A:702:PRO:O	1:A:703:GLN:HG3	0.79	0.96
1:B:729:GLN:HG3	1:B:754:ARG:HH12	1.26	0.96
1:D:805:ALA:HB1	1:D:808:ARG:H	1.30	0.96
1:A:422:LEU:HD11	1:B:605:GLN:HG2	1.46	0.96
1:D:551:ARG:NH1	1:D:641:GLU:OE2	1.99	0.95
1:B:805:ALA:HB1	1:B:808:ARG:H	1.30	0.95
1:A:407:LEU:HD23	1:C:944:LYS:NZ	1.80	0.95
1:D:661:LEU:HD21	1:D:790:ILE:CD1	1.95	0.95
1:B:732:SER:HB2	1:D:83:HIS:CD2	2.01	0.95
1:C:729:GLN:HG3	1:C:754:ARG:HH12	1.26	0.95
1:C:863:ILE:HD12	1:C:878:ILE:HG12	1.45	0.95
1:D:663:LEU:CD1	1:D:792:ASP:CG	2.35	0.94
1:B:237:SER:HA	1:B:239:PHE:H	1.33	0.94
1:B:735:ARG:HG2	1:B:786:ASN:HA	1.50	0.94
1:C:533:LEU:CB	1:C:642:THR:HG21	1.97	0.94
1:C:735:ARG:HG2	1:C:786:ASN:HA	1.50	0.94
1:D:533:LEU:HB2	1:D:642:THR:HG21	1.45	0.94
1:D:735:ARG:HG2	1:D:786:ASN:HA	1.50	0.94
1:B:663:LEU:CD1	1:B:703:GLN:HE22	1.74	0.93
1:C:237:SER:HA	1:C:239:PHE:H	1.33	0.93
1:C:533:LEU:HD13	1:C:642:THR:HG23	1.48	0.93
1:D:533:LEU:O	1:D:644:LYS:CB	2.16	0.93
1:A:805:ALA:HB1	1:A:808:ARG:H	1.30	0.93
1:A:816:LYS:HE3	1:A:910:ILE:CG2	1.98	0.93
1:D:534:HIS:HD2	1:D:644:LYS:NZ	1.66	0.93
1:A:237:SER:HA	1:A:239:PHE:H	1.33	0.92
1:D:663:LEU:HD12	1:D:792:ASP:HB2	1.50	0.92
1:C:702:PRO:CB	1:C:728:PRO:HD3	1.99	0.92
1:B:778:ALA:CB	1:B:798:LYS:HD2	2.00	0.92
1:B:795:GLN:HB2	1:B:797:LEU:CD1	1.99	0.92
1:D:237:SER:HA	1:D:239:PHE:H	1.33	0.92
1:C:778:ALA:CB	1:C:798:LYS:HD2	2.00	0.92
1:A:735:ARG:HG2	1:A:786:ASN:HA	1.50	0.92
1:A:795:GLN:HB2	1:A:797:LEU:CD1	1.99	0.92
1:D:533:LEU:HD13	1:D:642:THR:CG2	1.92	0.92
1:C:795:GLN:HB2	1:C:797:LEU:CD1	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:549:ALA:O	1:B:586:PRO:CA	2.18	0.91
1:D:533:LEU:HB3	1:D:642:THR:CB	2.00	0.91
1:D:795:GLN:HB2	1:D:797:LEU:CD1	1.99	0.91
1:A:655:ASN:OD1	1:A:657:SER:HB2	1.71	0.91
1:A:778:ALA:CB	1:A:798:LYS:HD2	2.00	0.91
1:D:534:HIS:HD2	1:D:644:LYS:HZ3	0.94	0.91
1:C:702:PRO:HB3	1:C:728:PRO:CD	2.01	0.90
1:D:737:TYR:CE1	1:D:754:ARG:HD2	2.06	0.90
1:B:692:GLU:OE2	1:D:141:ARG:NH1	2.05	0.90
1:C:737:TYR:CE1	1:C:754:ARG:HD2	2.06	0.90
1:A:737:TYR:CE1	1:A:754:ARG:HD2	2.06	0.90
1:B:707:THR:HG21	1:B:723:LYS:HD3	1.54	0.90
1:B:737:TYR:CE1	1:B:754:ARG:HD2	2.06	0.90
1:A:422:LEU:CD1	1:B:605:GLN:CG	2.49	0.90
1:A:655:ASN:HB3	1:A:658:ALA:CB	2.02	0.90
1:A:816:LYS:CE	1:A:910:ILE:HG23	2.02	0.89
1:C:533:LEU:CD1	1:C:642:THR:HG23	2.01	0.89
1:D:778:ALA:CB	1:D:798:LYS:HD2	2.00	0.89
1:A:707:THR:HG21	1:A:723:LYS:HD3	1.54	0.89
1:B:533:LEU:HA	1:B:646:PHE:HB2	1.54	0.89
1:B:706:PRO:HA	1:B:797:LEU:HD21	1.55	0.89
1:C:707:THR:HG21	1:C:723:LYS:HD3	1.54	0.89
1:A:810:SER:CB	1:A:882:ASN:OD1	2.22	0.88
1:A:810:SER:HB2	1:A:882:ASN:ND2	1.89	0.88
1:C:533:LEU:HD22	1:C:639:SER:CB	2.04	0.88
1:A:932:LEU:HB3	1:A:943:THR:CG2	2.04	0.88
1:C:663:LEU:HD12	1:C:792:ASP:CB	2.04	0.87
1:C:893:HIS:HB2	1:C:933:CYS:O	1.75	0.87
1:A:655:ASN:O	1:A:658:ALA:CB	2.21	0.87
1:C:959:LEU:CD1	1:C:1033:LEU:HD23	2.04	0.87
1:D:533:LEU:HD12	1:D:642:THR:CG2	1.91	0.87
1:D:550:ASN:HB2	1:D:586:PRO:HB3	0.89	0.87
1:D:707:THR:HG21	1:D:723:LYS:HD3	1.54	0.87
1:D:959:LEU:CD1	1:D:1033:LEU:HD23	2.04	0.87
1:B:533:LEU:HA	1:B:646:PHE:CB	2.04	0.87
1:A:549:ALA:O	1:A:586:PRO:HB3	1.74	0.87
1:D:893:HIS:HB2	1:D:933:CYS:O	1.75	0.87
1:D:551:ARG:NH2	1:D:642:THR:HG22	1.89	0.87
1:D:932:LEU:HB3	1:D:943:THR:CG2	2.04	0.86
1:A:706:PRO:HA	1:A:797:LEU:HD21	1.55	0.86
1:C:706:PRO:HA	1:C:797:LEU:HD21	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:706:PRO:HA	1:D:797:LEU:HD21	1.55	0.86
1:D:711:LEU:HD23	1:D:821:PHE:CD1	2.10	0.86
1:C:934:ILE:HD12	1:C:941:PHE:HD1	1.40	0.86
1:D:550:ASN:CB	1:D:586:PRO:CB	2.39	0.86
1:C:932:LEU:HB3	1:C:943:THR:CG2	2.04	0.86
1:D:663:LEU:HD11	1:D:792:ASP:CG	1.94	0.86
1:B:533:LEU:CD2	1:B:646:PHE:CD2	2.55	0.85
1:B:775:SER:H	1:B:807:GLN:CD	1.79	0.85
1:D:934:ILE:HD12	1:D:941:PHE:HD1	1.40	0.85
1:D:550:ASN:ND2	1:D:586:PRO:HA	1.91	0.85
1:D:775:SER:HB3	1:D:807:GLN:HG3	1.59	0.85
1:A:655:ASN:C	1:A:656:CYS:CA	2.44	0.85
1:A:893:HIS:HB2	1:A:933:CYS:O	1.75	0.85
1:A:934:ILE:HD12	1:A:941:PHE:HD1	1.40	0.85
1:C:533:LEU:HD22	1:C:639:SER:HB2	1.57	0.84
1:D:775:SER:CB	1:D:807:GLN:CG	2.55	0.84
1:C:663:LEU:CD1	1:C:792:ASP:CG	2.44	0.84
1:B:743:ILE:HB	1:B:746:ALA:O	1.78	0.84
1:A:655:ASN:C	1:A:658:ALA:H	1.80	0.84
1:C:743:ILE:HB	1:C:746:ALA:O	1.78	0.84
1:B:702:PRO:HB3	1:B:726:ASN:O	1.76	0.83
1:C:795:GLN:HB2	1:C:797:LEU:HD12	1.60	0.83
1:D:743:ILE:HB	1:D:746:ALA:O	1.78	0.83
1:A:508:VAL:C	1:A:509:GLU:N	0.78	0.83
1:A:407:LEU:CD2	1:C:944:LYS:CE	2.56	0.83
1:C:818:ASP:HB2	1:C:821:PHE:CD2	2.14	0.83
1:B:818:ASP:HB2	1:B:821:PHE:CD2	2.14	0.83
1:A:301:THR:HG21	1:B:589:SER:HB2	1.60	0.83
1:A:743:ILE:HB	1:A:746:ALA:O	1.78	0.83
1:C:893:HIS:CE1	1:C:894:VAL:HG22	2.14	0.83
1:D:663:LEU:HD12	1:D:792:ASP:CG	1.99	0.83
1:A:818:ASP:HB2	1:A:821:PHE:CD2	2.14	0.82
1:B:795:GLN:HB2	1:B:797:LEU:HD12	1.60	0.82
1:A:893:HIS:CE1	1:A:894:VAL:HG22	2.14	0.82
1:D:663:LEU:HD11	1:D:792:ASP:OD2	1.78	0.82
1:D:893:HIS:CE1	1:D:894:VAL:HG22	2.14	0.82
1:D:550:ASN:HD22	1:D:586:PRO:CA	1.93	0.82
1:D:534:HIS:CD2	1:D:644:LYS:NZ	2.43	0.82
1:D:818:ASP:HB2	1:D:821:PHE:CD2	2.14	0.82
1:A:893:HIS:HD1	1:A:932:LEU:HA	1.44	0.81
1:D:795:GLN:HB2	1:D:797:LEU:HD12	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:795:GLN:HB2	1:A:797:LEU:HD12	1.60	0.81
1:A:816:LYS:HE3	1:A:910:ILE:HG23	1.61	0.81
1:C:907:GLU:OE1	1:C:915:VAL:HG11	1.81	0.81
1:A:407:LEU:HD23	1:C:944:LYS:CD	1.96	0.81
1:B:741:LEU:O	1:B:747:VAL:HG23	1.81	0.81
1:B:711:LEU:HD21	1:B:820:LYS:HB3	1.62	0.81
1:C:893:HIS:HD1	1:C:932:LEU:HA	1.44	0.81
1:A:907:GLU:OE1	1:A:915:VAL:HG11	1.81	0.81
1:C:735:ARG:CG	1:C:786:ASN:HA	2.11	0.81
1:D:893:HIS:HD1	1:D:932:LEU:HA	1.44	0.81
1:D:741:LEU:O	1:D:747:VAL:HG23	1.81	0.81
1:D:907:GLU:OE1	1:D:915:VAL:HG11	1.81	0.81
1:B:802:TYR:CG	1:B:821:PHE:CD1	2.69	0.80
1:C:741:LEU:O	1:C:747:VAL:HG23	1.81	0.80
1:C:883:LEU:HB2	1:C:911:ALA:HA	1.63	0.80
1:D:735:ARG:CG	1:D:786:ASN:HA	2.11	0.80
1:A:784:VAL:HG22	1:A:790:ILE:HG22	1.63	0.80
1:A:422:LEU:HD12	1:B:605:GLN:CD	2.01	0.80
1:B:701:CYS:C	1:B:702:PRO:N	2.35	0.80
1:C:677:TYR:CD1	1:C:731:GLN:CG	2.63	0.80
1:D:883:LEU:HB2	1:D:911:ALA:HA	1.63	0.80
1:B:735:ARG:CG	1:B:786:ASN:HA	2.11	0.80
1:D:904:ILE:CG2	1:D:907:GLU:HB2	2.12	0.80
1:A:904:ILE:CG2	1:A:907:GLU:HB2	2.12	0.80
1:B:692:GLU:OE2	1:D:141:ARG:CZ	2.29	0.80
1:B:784:VAL:HG22	1:B:790:ILE:HG22	1.63	0.80
1:D:551:ARG:NH1	1:D:641:GLU:CD	2.35	0.80
1:D:803:LYS:C	1:D:804:CYS:O	2.17	0.80
1:D:775:SER:HB2	1:D:807:GLN:CG	2.12	0.80
1:A:735:ARG:CG	1:A:786:ASN:HA	2.11	0.80
1:C:904:ILE:CG2	1:C:907:GLU:HB2	2.12	0.80
1:C:893:HIS:CE1	1:C:932:LEU:HG	2.18	0.79
1:D:812:GLY:HA3	1:D:885:LEU:CD2	2.11	0.79
1:A:217:LEU:HD11	1:C:940:GLU:OE1	1.83	0.79
1:A:397:PRO:HB2	1:C:947:GLN:NE2	1.95	0.79
1:D:784:VAL:HG22	1:D:790:ILE:HG22	1.63	0.79
1:A:407:LEU:HD21	1:C:944:LYS:HD2	0.79	0.79
1:A:741:LEU:O	1:A:747:VAL:HG23	1.81	0.79
1:B:690:PHE:HE2	1:B:731:GLN:HB3	1.47	0.79
1:B:775:SER:CB	1:B:807:GLN:OE1	2.30	0.79
1:B:663:LEU:CD1	1:B:703:GLN:HE21	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:784:VAL:HG22	1:C:790:ILE:HG22	1.63	0.79
1:D:533:LEU:CD1	1:D:639:SER:OG	2.31	0.79
1:D:893:HIS:CE1	1:D:932:LEU:HG	2.18	0.78
1:A:463:PRO:HD2	1:B:577:LEU:HD22	1.65	0.78
1:D:663:LEU:CD1	1:D:792:ASP:CB	2.56	0.78
1:D:823:CYS:HA	1:D:834:LEU:HD23	1.65	0.78
1:A:422:LEU:HD12	1:B:605:GLN:CG	2.14	0.78
1:C:823:CYS:HA	1:C:834:LEU:HD23	1.65	0.78
1:D:958:SER:HA	1:D:1033:LEU:CD2	2.13	0.78
1:A:463:PRO:HG2	1:B:612:ILE:HB	1.66	0.78
1:D:812:GLY:CA	1:D:885:LEU:CD2	2.62	0.78
1:A:893:HIS:CE1	1:A:932:LEU:HG	2.18	0.78
1:A:883:LEU:HB2	1:A:911:ALA:HA	1.63	0.77
1:A:737:TYR:HE1	1:A:754:ARG:HD2	1.50	0.77
1:A:508:VAL:O	1:A:509:GLU:CA	2.29	0.77
1:B:550:ASN:HB2	1:B:586:PRO:CA	2.13	0.77
1:A:890:ILE:HD13	1:A:908:TYR:CE1	2.20	0.77
1:D:786:ASN:HB3	1:D:789:PHE:HD2	1.50	0.77
1:A:655:ASN:C	1:A:656:CYS:C	2.43	0.77
1:D:795:GLN:HB2	1:D:797:LEU:HD11	1.67	0.77
1:B:533:LEU:HD22	1:B:646:PHE:CG	2.00	0.77
1:B:823:CYS:HA	1:B:834:LEU:HD23	1.65	0.77
1:D:890:ILE:HD13	1:D:908:TYR:CE1	2.20	0.77
1:D:729:GLN:HG3	1:D:754:ARG:NH1	2.00	0.76
1:A:795:GLN:HB2	1:A:797:LEU:HD11	1.67	0.76
1:A:823:CYS:HA	1:A:834:LEU:HD23	1.65	0.76
1:C:795:GLN:HB2	1:C:797:LEU:HD11	1.67	0.76
1:D:533:LEU:HB3	1:D:642:THR:OG1	1.86	0.76
1:A:786:ASN:HB3	1:A:789:PHE:HD2	1.50	0.76
1:C:729:GLN:HG3	1:C:754:ARG:NH1	2.00	0.76
1:B:550:ASN:HB2	1:B:586:PRO:N	1.99	0.76
1:D:812:GLY:CA	1:D:885:LEU:HD21	2.16	0.76
1:A:815:LEU:HD23	1:A:853:VAL:CG1	2.15	0.76
1:C:786:ASN:HB3	1:C:789:PHE:HD2	1.50	0.76
1:C:958:SER:HA	1:C:1033:LEU:CD2	2.13	0.76
1:B:729:GLN:HG3	1:B:754:ARG:NH1	2.00	0.76
1:C:890:ILE:HD13	1:C:908:TYR:CE1	2.20	0.76
1:A:463:PRO:CG	1:B:612:ILE:HG21	2.00	0.76
1:D:440:TYR:CE2	1:D:527:HIS:HA	2.21	0.75
1:D:737:TYR:HE1	1:D:754:ARG:HD2	1.50	0.75
1:D:803:LYS:O	1:D:804:CYS:C	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:729:GLN:HG3	1:A:754:ARG:NH1	2.00	0.75
1:B:559:CYS:C	1:B:560:MET:N	2.40	0.75
1:B:795:GLN:HB2	1:B:797:LEU:HD11	1.67	0.75
1:D:996:PHE:HZ	1:D:999:ARG:HB2	1.51	0.75
1:C:996:PHE:HZ	1:C:999:ARG:HB2	1.51	0.75
1:C:960:SER:OG	1:C:973:THR:HB	1.86	0.75
1:C:707:THR:CG2	1:C:723:LYS:HD3	2.17	0.75
1:B:786:ASN:HB3	1:B:789:PHE:HD2	1.50	0.75
1:B:802:TYR:CD2	1:B:821:PHE:CD1	2.75	0.75
1:C:737:TYR:HE1	1:C:754:ARG:HD2	1.50	0.75
1:A:870:PRO:O	1:A:921:ALA:HB3	1.87	0.75
1:D:870:PRO:O	1:D:921:ALA:HB3	1.87	0.75
1:D:815:LEU:HD23	1:D:853:VAL:CG1	2.15	0.74
1:D:960:SER:OG	1:D:973:THR:HB	1.86	0.74
1:B:459:ARG:NH1	1:B:524:GLY:O	2.20	0.74
1:D:707:THR:CG2	1:D:723:LYS:HD3	2.17	0.74
1:B:775:SER:CA	1:B:807:GLN:OE1	2.36	0.74
1:A:815:LEU:CB	1:A:885:LEU:HD11	2.17	0.74
1:B:550:ASN:HB2	1:B:585:ALA:C	2.08	0.74
1:D:714:VAL:HG13	1:D:767:TYR:O	1.88	0.74
1:A:714:VAL:HG13	1:A:767:TYR:O	1.88	0.73
1:B:707:THR:CG2	1:B:723:LYS:HD3	2.17	0.73
1:B:714:VAL:HG13	1:B:767:TYR:O	1.88	0.73
1:C:873:GLY:HA3	1:C:1026:ARG:HG3	1.70	0.73
1:C:870:PRO:O	1:C:921:ALA:HB3	1.87	0.73
1:A:893:HIS:ND1	1:A:932:LEU:HA	2.02	0.73
1:C:714:VAL:HG13	1:C:767:TYR:O	1.88	0.73
1:C:445:VAL:HG22	1:C:526:PRO:HG2	1.70	0.73
1:A:707:THR:CG2	1:A:723:LYS:HD3	2.17	0.73
1:D:533:LEU:HD21	1:D:639:SER:CB	2.07	0.73
1:B:533:LEU:HD23	1:B:646:PHE:CB	2.19	0.73
1:D:893:HIS:ND1	1:D:932:LEU:HA	2.02	0.73
1:D:997:TYR:HB3	1:D:1005:VAL:HG23	1.70	0.73
1:C:893:HIS:ND1	1:C:932:LEU:HA	2.02	0.73
1:C:997:TYR:HB3	1:C:1005:VAL:HG23	1.70	0.73
1:D:550:ASN:HB2	1:D:586:PRO:CA	2.18	0.73
1:D:786:ASN:HB3	1:D:789:PHE:CD2	2.24	0.72
1:A:702:PRO:O	1:A:703:GLN:CB	2.35	0.72
1:B:775:SER:HB2	1:B:807:GLN:CD	2.08	0.72
1:B:786:ASN:HB3	1:B:789:PHE:CD2	2.24	0.72
1:B:544:GLN:HG2	1:B:545:ARG:HG2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1018:VAL:O	1:C:1034:GLN:HG3	1.88	0.72
1:D:1018:VAL:O	1:D:1034:GLN:HG3	1.88	0.72
1:B:533:LEU:HD21	1:B:646:PHE:CD1	2.24	0.72
1:C:663:LEU:HD12	1:C:792:ASP:HB3	1.72	0.72
1:D:988:TYR:HB3	1:D:1021:SER:HB3	1.70	0.72
1:A:863:ILE:CD1	1:A:878:ILE:HG12	2.20	0.72
1:D:775:SER:HB3	1:D:807:GLN:CG	2.18	0.72
1:A:655:ASN:O	1:A:658:ALA:N	2.22	0.71
1:C:872:GLY:O	1:C:1026:ARG:HB2	1.89	0.71
1:A:422:LEU:HD12	1:B:605:GLN:HG2	1.66	0.71
1:C:988:TYR:HB3	1:C:1021:SER:HB3	1.71	0.71
1:D:893:HIS:NE2	1:D:914:ILE:HD13	2.05	0.71
1:A:786:ASN:HB3	1:A:789:PHE:CD2	2.24	0.71
1:A:883:LEU:HD23	1:A:914:ILE:HD11	1.72	0.71
1:C:863:ILE:CD1	1:C:878:ILE:HG12	2.20	0.71
1:C:893:HIS:NE2	1:C:914:ILE:HD13	2.05	0.71
1:D:883:LEU:HD23	1:D:914:ILE:HD11	1.72	0.71
1:B:711:LEU:CD2	1:B:820:LYS:HB3	2.20	0.71
1:B:732:SER:HB2	1:D:83:HIS:NE2	2.04	0.71
1:C:815:LEU:HD23	1:C:853:VAL:CG1	2.15	0.71
1:A:810:SER:HB2	1:A:882:ASN:HD21	1.53	0.71
1:C:786:ASN:HB3	1:C:789:PHE:CD2	2.24	0.71
1:A:893:HIS:NE2	1:A:914:ILE:HD13	2.05	0.71
1:D:855:CYS:SG	1:D:885:LEU:HD21	2.30	0.71
1:A:221:PHE:CZ	1:C:830:ARG:HB2	2.25	0.71
1:B:532:ALA:CB	1:B:560:MET:HE3	2.16	0.71
1:B:549:ALA:O	1:B:586:PRO:HA	1.91	0.71
1:B:737:TYR:HE1	1:B:754:ARG:HD2	1.50	0.71
1:B:775:SER:CB	1:B:807:GLN:CD	2.59	0.71
1:A:655:ASN:CG	1:A:658:ALA:N	2.45	0.70
1:A:655:ASN:CA	1:A:656:CYS:N	2.54	0.70
1:C:544:GLN:HG2	1:C:545:ARG:HG2	1.71	0.70
1:D:544:GLN:HG2	1:D:545:ARG:HG2	1.71	0.70
1:A:544:GLN:HG2	1:A:545:ARG:HG2	1.71	0.70
1:A:920:HIS:NE2	1:A:922:VAL:HG23	2.06	0.70
1:D:863:ILE:CD1	1:D:878:ILE:HG12	2.20	0.70
1:D:920:HIS:NE2	1:D:922:VAL:HG23	2.06	0.70
1:B:690:PHE:HE2	1:B:731:GLN:CB	2.03	0.70
1:B:697:VAL:HG12	1:B:699:GLU:H	1.57	0.70
1:C:920:HIS:NE2	1:C:922:VAL:HG23	2.06	0.70
1:A:811:CYS:O	1:A:815:LEU:HD13	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:CYS:SG	1:A:839:PRO:HD2	2.32	0.70
1:B:815:LEU:HD23	1:B:853:VAL:CG1	2.15	0.70
1:C:697:VAL:HG12	1:C:699:GLU:H	1.57	0.70
1:C:811:CYS:O	1:C:815:LEU:HD13	1.92	0.70
1:C:883:LEU:HD23	1:C:914:ILE:HD11	1.72	0.70
1:D:838:CYS:SG	1:D:839:PRO:HD2	2.32	0.70
1:B:833:THR:CG2	1:B:837:HIS:HB2	2.22	0.70
1:D:811:CYS:O	1:D:815:LEU:HD13	1.92	0.70
1:A:697:VAL:HG12	1:A:699:GLU:H	1.56	0.70
1:D:938:LYS:HB2	1:D:941:PHE:HD2	1.57	0.70
1:B:838:CYS:SG	1:B:839:PRO:HD2	2.32	0.69
1:C:938:LYS:HB2	1:C:941:PHE:HD2	1.57	0.69
1:A:868:GLY:HA3	1:A:949:TYR:OH	1.92	0.69
1:B:811:CYS:O	1:B:815:LEU:HD13	1.92	0.69
1:C:818:ASP:HB2	1:C:821:PHE:CE2	2.28	0.69
1:D:697:VAL:HG12	1:D:699:GLU:H	1.57	0.69
1:A:810:SER:CB	1:A:882:ASN:HD21	2.06	0.69
1:A:870:PRO:HD3	1:A:952:VAL:O	1.92	0.69
1:D:533:LEU:HD11	1:D:639:SER:OG	1.91	0.69
1:A:818:ASP:HB2	1:A:821:PHE:CE2	2.28	0.69
1:B:470:TYR:CE1	1:B:525:ASP:CG	2.66	0.69
1:A:833:THR:CG2	1:A:837:HIS:HB2	2.22	0.69
1:A:938:LYS:HB2	1:A:941:PHE:HD2	1.57	0.69
1:C:663:LEU:CD1	1:C:792:ASP:CB	2.69	0.69
1:C:838:CYS:SG	1:C:839:PRO:HD2	2.32	0.69
1:C:868:GLY:HA3	1:C:949:TYR:OH	1.92	0.69
1:D:818:ASP:HB2	1:D:821:PHE:CE2	2.28	0.69
1:A:463:PRO:CG	1:B:612:ILE:HB	2.23	0.69
1:B:818:ASP:HB2	1:B:821:PHE:CE2	2.28	0.69
1:C:833:THR:CG2	1:C:837:HIS:HB2	2.22	0.69
1:C:870:PRO:HD3	1:C:952:VAL:O	1.92	0.69
1:D:550:ASN:HB3	1:D:586:PRO:HG3	1.73	0.69
1:D:868:GLY:HA3	1:D:949:TYR:OH	1.92	0.69
1:A:893:HIS:NE2	1:A:894:VAL:HG22	2.08	0.69
1:D:870:PRO:HD3	1:D:952:VAL:O	1.93	0.69
1:A:815:LEU:HB3	1:A:885:LEU:HD11	1.74	0.69
1:D:833:THR:CG2	1:D:837:HIS:HB2	2.22	0.69
1:D:663:LEU:CD1	1:D:792:ASP:HB2	2.23	0.68
1:D:893:HIS:NE2	1:D:894:VAL:HG22	2.08	0.68
1:A:740:VAL:HG22	1:A:749:ARG:HD2	1.76	0.68
1:A:815:LEU:HA	1:A:848:TRP:CD1	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:890:ILE:HB	1:A:893:HIS:HD2	1.58	0.68
1:D:890:ILE:HB	1:D:893:HIS:HD2	1.59	0.68
1:A:79:ILE:HD11	1:A:82:ALA:HB2	1.75	0.68
1:C:550:ASN:CB	1:C:586:PRO:HB3	2.24	0.68
1:D:79:ILE:HD11	1:D:82:ALA:HB2	1.75	0.68
1:B:815:LEU:HA	1:B:848:TRP:CD1	2.29	0.68
1:C:79:ILE:HD11	1:C:82:ALA:HB2	1.75	0.68
1:C:890:ILE:HB	1:C:893:HIS:HD2	1.59	0.68
1:B:737:TYR:CD2	1:B:785:TRP:HB3	2.29	0.68
1:C:737:TYR:CD2	1:C:785:TRP:HB3	2.29	0.68
1:D:564:VAL:HG22	1:D:580:LEU:HD13	1.76	0.68
1:D:815:LEU:HA	1:D:848:TRP:CD1	2.29	0.68
1:D:737:TYR:CD2	1:D:785:TRP:HB3	2.29	0.68
1:A:704:LEU:HD11	1:A:783:VAL:CG2	2.24	0.68
1:A:706:PRO:CA	1:A:797:LEU:HD21	2.24	0.68
1:B:79:ILE:HD11	1:B:82:ALA:HB2	1.75	0.68
1:B:810:SER:OG	1:B:813:LEU:HD13	1.94	0.68
1:C:810:SER:OG	1:C:813:LEU:HD13	1.94	0.68
1:B:740:VAL:HG22	1:B:749:ARG:HD2	1.75	0.67
1:D:704:LEU:HD11	1:D:783:VAL:CG2	2.24	0.67
1:B:550:ASN:CB	1:B:585:ALA:C	2.63	0.67
1:C:704:LEU:HD11	1:C:783:VAL:CG2	2.24	0.67
1:C:713:PRO:HG3	1:C:802:TYR:OH	1.95	0.67
1:B:704:LEU:HD11	1:B:783:VAL:CG2	2.24	0.67
1:B:713:PRO:HG3	1:B:802:TYR:OH	1.95	0.67
1:C:564:VAL:HG22	1:C:580:LEU:HD13	1.76	0.67
1:C:863:ILE:HG13	1:C:877:THR:O	1.94	0.67
1:A:863:ILE:HG13	1:A:877:THR:O	1.95	0.67
1:D:713:PRO:HG3	1:D:802:TYR:OH	1.95	0.67
1:C:815:LEU:HA	1:C:848:TRP:CD1	2.29	0.67
1:D:810:SER:OG	1:D:813:LEU:HD13	1.94	0.67
1:D:1015:LEU:H	1:D:1015:LEU:HD12	1.59	0.67
1:A:737:TYR:CD2	1:A:785:TRP:HB3	2.29	0.67
1:A:810:SER:OG	1:A:813:LEU:HD13	1.94	0.67
1:B:568:SER:HG	1:B:670:PHE:HD1	1.41	0.67
1:A:463:PRO:CD	1:B:612:ILE:HG21	2.24	0.67
1:C:893:HIS:NE2	1:C:894:VAL:HG22	2.08	0.67
1:D:740:VAL:HG22	1:D:749:ARG:HD2	1.76	0.67
1:B:564:VAL:HG22	1:B:580:LEU:HD13	1.76	0.67
1:B:703:GLN:HA	1:B:792:ASP:OD1	1.95	0.67
1:C:655:ASN:OD1	1:C:657:SER:HB2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1015:LEU:HD12	1:C:1015:LEU:H	1.59	0.67
1:B:666:VAL:HG11	1:B:698:SER:N	2.10	0.67
1:B:805:ALA:HB1	1:B:808:ARG:N	2.08	0.67
1:B:237:SER:HA	1:B:239:PHE:N	2.07	0.66
1:B:690:PHE:CD2	1:B:731:GLN:HG3	2.30	0.66
1:C:740:VAL:HG22	1:C:749:ARG:HD2	1.75	0.66
1:A:564:VAL:HG22	1:A:580:LEU:HD13	1.76	0.66
1:B:706:PRO:CA	1:B:797:LEU:HD21	2.24	0.66
1:C:559:CYS:O	1:C:584:ASP:CB	2.43	0.66
1:C:702:PRO:HA	1:C:726:ASN:O	1.95	0.66
1:C:533:LEU:CD2	1:C:639:SER:HB2	2.23	0.66
1:C:956:VAL:HG23	1:C:975:THR:O	1.95	0.66
1:D:666:VAL:HG11	1:D:698:SER:N	2.10	0.66
1:D:956:VAL:HG23	1:D:975:THR:O	1.95	0.66
1:B:714:VAL:HG13	1:B:768:GLN:HA	1.77	0.66
1:D:703:GLN:HA	1:D:792:ASP:OD1	1.95	0.66
1:D:863:ILE:HG13	1:D:877:THR:O	1.94	0.66
1:A:706:PRO:HG3	1:A:795:GLN:HG3	1.78	0.66
1:B:533:LEU:HD21	1:B:646:PHE:CE1	2.31	0.66
1:C:677:TYR:HD1	1:C:731:GLN:HG3	1.55	0.66
1:C:706:PRO:CA	1:C:797:LEU:HD21	2.24	0.66
1:A:324:GLN:HE21	1:B:577:LEU:H	1.42	0.66
1:A:713:PRO:HG3	1:A:802:TYR:OH	1.95	0.66
1:C:237:SER:HA	1:C:239:PHE:N	2.08	0.66
1:D:717:VAL:CG1	1:D:764:ASN:HB3	2.26	0.66
1:A:714:VAL:HG13	1:A:768:GLN:HA	1.78	0.66
1:B:717:VAL:CG1	1:B:764:ASN:HB3	2.26	0.66
1:B:732:SER:CB	1:D:83:HIS:CD2	2.78	0.66
1:C:714:VAL:HG13	1:C:768:GLN:HA	1.77	0.66
1:B:802:TYR:CD1	1:B:821:PHE:CD1	2.84	0.66
1:C:855:CYS:C	1:C:856:SER:N	2.48	0.66
1:D:793:ASN:OD1	1:D:797:LEU:HD13	1.96	0.66
1:A:237:SER:HA	1:A:239:PHE:N	2.08	0.66
1:C:1015:LEU:HD21	1:C:1039:ASP:HB2	1.78	0.65
1:A:666:VAL:HG11	1:A:698:SER:N	2.10	0.65
1:A:703:GLN:HA	1:A:792:ASP:OD1	1.95	0.65
1:B:551:ARG:NH2	1:B:642:THR:HG21	2.11	0.65
1:C:666:VAL:HG11	1:C:698:SER:N	2.10	0.65
1:C:703:GLN:HA	1:C:792:ASP:OD1	1.95	0.65
1:C:717:VAL:CG1	1:C:764:ASN:HB3	2.26	0.65
1:C:793:ASN:OD1	1:C:797:LEU:HD13	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:237:SER:HA	1:D:239:PHE:N	2.08	0.65
1:A:701:CYS:O	1:A:703:GLN:HG3	1.95	0.65
1:D:706:PRO:CA	1:D:797:LEU:HD21	2.24	0.65
1:D:1015:LEU:HD21	1:D:1039:ASP:HB2	1.78	0.65
1:B:711:LEU:HD21	1:B:820:LYS:CB	2.25	0.65
1:C:774:ILE:C	1:C:806:ALA:HB3	2.15	0.65
1:A:717:VAL:CG1	1:A:764:ASN:HB3	2.26	0.65
1:B:793:ASN:OD1	1:B:797:LEU:HD13	1.96	0.65
1:B:803:LYS:C	1:B:804:CYS:CA	2.65	0.65
1:D:864:LEU:HG	1:D:865:THR:N	2.12	0.65
1:D:812:GLY:CA	1:D:885:LEU:HD22	2.26	0.65
1:D:714:VAL:HG13	1:D:768:GLN:HA	1.78	0.65
1:A:742:SER:O	1:A:779:VAL:HG13	1.97	0.65
1:C:864:LEU:HG	1:C:865:THR:N	2.12	0.65
1:A:772:MET:O	1:A:806:ALA:HB1	1.97	0.65
1:A:864:LEU:HG	1:A:865:THR:N	2.12	0.65
1:C:88:GLU:HB2	1:C:132:LEU:HD21	1.79	0.65
1:C:742:SER:O	1:C:779:VAL:HG13	1.97	0.65
1:A:88:GLU:HB2	1:A:132:LEU:HD21	1.79	0.64
1:A:793:ASN:OD1	1:A:797:LEU:HD13	1.96	0.64
1:D:706:PRO:HG3	1:D:795:GLN:HG3	1.78	0.64
1:A:655:ASN:OD1	1:A:658:ALA:N	2.30	0.64
1:D:88:GLU:HB2	1:D:132:LEU:HD21	1.79	0.64
1:D:742:SER:O	1:D:779:VAL:HG13	1.97	0.64
1:A:704:LEU:HD11	1:A:783:VAL:HG21	1.80	0.64
1:A:842:SER:OG	1:A:844:PRO:HD2	1.97	0.64
1:B:695:ILE:CD1	1:B:702:PRO:HD3	2.28	0.64
1:A:805:ALA:HB1	1:A:808:ARG:N	2.08	0.64
1:C:842:SER:OG	1:C:844:PRO:HD2	1.97	0.64
1:D:812:GLY:HA3	1:D:885:LEU:HD22	1.78	0.64
1:B:550:ASN:HB2	1:B:586:PRO:HA	1.80	0.64
1:C:706:PRO:HG3	1:C:795:GLN:HG3	1.78	0.64
1:A:549:ALA:O	1:A:586:PRO:CB	2.45	0.64
1:B:706:PRO:HG3	1:B:795:GLN:HG3	1.78	0.64
1:C:533:LEU:HD13	1:C:639:SER:OG	1.98	0.64
1:A:810:SER:CB	1:A:882:ASN:ND2	2.61	0.63
1:B:742:SER:O	1:B:779:VAL:HG13	1.97	0.63
1:D:931:ARG:HD2	1:D:942:MET:HE3	1.79	0.63
1:B:533:LEU:CD2	1:B:646:PHE:CB	2.76	0.63
1:B:842:SER:OG	1:B:844:PRO:HD2	1.97	0.63
1:C:704:LEU:HD11	1:C:783:VAL:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:775:SER:HB2	1:C:807:GLN:H	1.62	0.63
1:D:959:LEU:HG	1:D:974:ILE:CG2	2.25	0.63
1:B:704:LEU:HD11	1:B:783:VAL:HG21	1.80	0.63
1:C:855:CYS:O	1:C:856:SER:N	2.32	0.63
1:D:842:SER:OG	1:D:844:PRO:HD2	1.97	0.63
1:D:1001:MET:HG3	1:D:1002:ASN:N	2.13	0.63
1:B:706:PRO:HA	1:B:797:LEU:CD2	2.29	0.63
1:A:407:LEU:HD23	1:C:944:LYS:HZ2	1.61	0.63
1:C:959:LEU:HG	1:C:974:ILE:CG2	2.25	0.63
1:C:1001:MET:HG3	1:C:1002:ASN:N	2.13	0.63
1:D:470:TYR:HB2	1:D:523:SER:O	1.98	0.63
1:D:704:LEU:HD11	1:D:783:VAL:HG21	1.80	0.63
1:D:988:TYR:HE1	1:D:992:GLN:C	2.02	0.63
1:B:88:GLU:HB2	1:B:132:LEU:HD21	1.79	0.63
1:C:931:ARG:HD2	1:C:942:MET:HE3	1.79	0.63
1:C:988:TYR:HE1	1:C:992:GLN:C	2.02	0.63
1:D:630:TRP:HB3	1:D:670:PHE:CE2	2.34	0.63
1:C:994:CYS:HA	1:C:1009:PRO:HD3	1.81	0.63
1:C:274:LEU:HD12	1:C:274:LEU:H	1.64	0.63
1:C:904:ILE:HG23	1:C:907:GLU:HB2	1.79	0.63
1:D:904:ILE:HG23	1:D:907:GLU:HB2	1.79	0.63
1:D:994:CYS:HA	1:D:1009:PRO:HD3	1.81	0.63
1:C:989:LEU:HG	1:C:1020:VAL:HG12	1.81	0.62
1:D:661:LEU:HD21	1:D:790:ILE:CG1	2.28	0.62
1:A:274:LEU:HD12	1:A:274:LEU:H	1.64	0.62
1:A:834:LEU:HB2	1:A:837:HIS:HD2	1.64	0.62
1:B:834:LEU:HB2	1:B:837:HIS:HD2	1.64	0.62
1:D:989:LEU:HG	1:D:1020:VAL:HG12	1.81	0.62
1:B:663:LEU:HD12	1:B:703:GLN:HE21	1.63	0.62
1:D:274:LEU:HD12	1:D:274:LEU:H	1.64	0.62
1:A:934:ILE:HD12	1:A:941:PHE:CD1	2.30	0.62
1:A:895:GLN:HG2	1:A:931:ARG:HB3	1.82	0.62
1:C:790:ILE:HG13	1:C:790:ILE:O	2.00	0.62
1:C:885:LEU:HD22	1:C:910:ILE:HD11	1.81	0.62
1:D:885:LEU:CD2	1:D:910:ILE:HD11	2.30	0.62
1:A:463:PRO:CB	1:B:612:ILE:HG22	2.29	0.62
1:B:274:LEU:H	1:B:274:LEU:HD12	1.64	0.62
1:C:805:ALA:HB1	1:C:808:ARG:N	2.08	0.61
1:A:881:VAL:HG13	1:A:882:ASN:N	2.16	0.61
1:A:885:LEU:CD2	1:A:910:ILE:HD11	2.30	0.61
1:A:885:LEU:HD22	1:A:910:ILE:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:904:ILE:HG23	1:A:907:GLU:HB2	1.79	0.61
1:B:702:PRO:CB	1:B:726:ASN:O	2.47	0.61
1:D:834:LEU:HB2	1:D:837:HIS:HD2	1.64	0.61
1:C:874:THR:HA	1:C:1025:ASP:OD2	2.00	0.61
1:C:885:LEU:CD2	1:C:910:ILE:HD11	2.30	0.61
1:D:881:VAL:HG13	1:D:882:ASN:N	2.16	0.61
1:B:550:ASN:O	1:B:586:PRO:HG3	2.00	0.61
1:C:834:LEU:HB2	1:C:837:HIS:HD2	1.64	0.61
1:D:706:PRO:HA	1:D:797:LEU:CD2	2.29	0.61
1:C:706:PRO:HA	1:C:797:LEU:CD2	2.29	0.61
1:C:895:GLN:HG2	1:C:931:ARG:HB3	1.82	0.61
1:B:532:ALA:CB	1:B:560:MET:CE	2.75	0.61
1:C:881:VAL:HG13	1:C:882:ASN:N	2.16	0.61
1:A:864:LEU:HG	1:A:865:THR:H	1.66	0.61
1:B:802:TYR:CZ	1:B:821:PHE:HD1	2.19	0.61
1:D:885:LEU:HD22	1:D:910:ILE:HD11	1.81	0.61
1:D:989:LEU:N	1:D:989:LEU:HD12	2.15	0.61
1:B:655:ASN:C	1:B:656:CYS:CA	2.66	0.61
1:B:790:ILE:HG13	1:B:790:ILE:O	2.00	0.61
1:B:786:ASN:HD22	1:B:789:PHE:HE2	1.48	0.60
1:D:551:ARG:NH2	1:D:642:THR:CG2	2.62	0.60
1:A:842:SER:CB	1:A:844:PRO:HD2	2.31	0.60
1:B:508:VAL:CG1	1:B:539:ARG:NH2	2.64	0.60
1:B:802:TYR:CG	1:B:821:PHE:CE1	2.89	0.60
1:D:760:VAL:HG12	1:D:761:GLN:N	2.16	0.60
1:D:1015:LEU:HD12	1:D:1015:LEU:N	2.16	0.60
1:A:815:LEU:HB2	1:A:885:LEU:HD11	1.81	0.60
1:C:661:LEU:HD21	1:C:790:ILE:HD11	1.83	0.60
1:C:842:SER:CB	1:C:844:PRO:HD2	2.31	0.60
1:A:324:GLN:NE2	1:B:577:LEU:H	2.00	0.60
1:A:532:ALA:HB1	1:A:560:MET:HE2	1.78	0.60
1:A:533:LEU:HD23	1:A:646:PHE:CG	2.36	0.60
1:A:760:VAL:HG12	1:A:761:GLN:N	2.16	0.60
1:C:191:LYS:HB3	1:C:194:TYR:HB2	1.83	0.60
1:C:989:LEU:N	1:C:989:LEU:HD12	2.15	0.60
1:C:1015:LEU:HD12	1:C:1015:LEU:N	2.16	0.60
1:D:790:ILE:O	1:D:790:ILE:HG13	2.00	0.60
1:D:842:SER:CB	1:D:844:PRO:HD2	2.31	0.60
1:A:549:ALA:O	1:A:586:PRO:HA	2.02	0.60
1:B:815:LEU:HA	1:B:848:TRP:HD1	1.66	0.60
1:D:786:ASN:HD22	1:D:789:PHE:HE2	1.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:895:GLN:HG2	1:D:931:ARG:HB3	1.82	0.60
1:C:934:ILE:HD12	1:C:941:PHE:CD1	2.30	0.60
1:B:786:ASN:ND2	1:B:789:PHE:HE2	2.00	0.60
1:B:842:SER:CB	1:B:844:PRO:HD2	2.31	0.60
1:C:663:LEU:HD23	1:C:698:SER:HB2	1.84	0.60
1:A:931:ARG:HH11	1:A:942:MET:HE3	1.66	0.60
1:A:706:PRO:HA	1:A:797:LEU:CD2	2.29	0.60
1:A:790:ILE:HG13	1:A:790:ILE:O	2.00	0.60
1:B:760:VAL:HG12	1:B:761:GLN:N	2.16	0.60
1:B:815:LEU:HB3	1:B:848:TRP:HB3	1.84	0.60
1:C:786:ASN:HD22	1:C:789:PHE:HE2	1.48	0.60
1:D:191:LYS:HB3	1:D:194:TYR:HB2	1.83	0.60
1:A:550:ASN:ND2	1:A:585:ALA:O	2.29	0.59
1:C:864:LEU:HG	1:C:865:THR:H	1.66	0.59
1:D:533:LEU:CG	1:D:642:THR:CG2	2.80	0.59
1:A:786:ASN:HD22	1:A:789:PHE:HE2	1.48	0.59
1:D:550:ASN:HB3	1:D:586:PRO:CG	2.32	0.59
1:D:805:ALA:HB1	1:D:808:ARG:N	2.08	0.59
1:B:191:LYS:HB3	1:B:194:TYR:HB2	1.83	0.59
1:D:663:LEU:HD23	1:D:698:SER:HB2	1.84	0.59
1:D:786:ASN:ND2	1:D:789:PHE:HE2	2.00	0.59
1:A:191:LYS:HB3	1:A:194:TYR:HB2	1.83	0.59
1:C:760:VAL:HG12	1:C:761:GLN:N	2.16	0.59
1:A:786:ASN:ND2	1:A:789:PHE:HE2	2.00	0.59
1:A:855:CYS:SG	1:A:856:SER:N	2.75	0.59
1:C:815:LEU:HA	1:C:848:TRP:HD1	1.66	0.59
1:A:655:ASN:OD1	1:A:657:SER:CB	2.45	0.59
1:A:931:ARG:HD2	1:A:942:MET:HE3	1.84	0.59
1:B:802:TYR:CE2	1:B:821:PHE:HD1	2.19	0.59
1:C:663:LEU:HD12	1:C:792:ASP:OD2	1.95	0.59
1:D:815:LEU:HB3	1:D:848:TRP:HB3	1.84	0.59
1:A:97:PRO:HG2	1:A:158:TYR:CE1	2.38	0.59
1:B:663:LEU:HD23	1:B:698:SER:HB2	1.84	0.59
1:B:802:TYR:CD1	1:B:821:PHE:CE1	2.90	0.59
1:D:97:PRO:HG2	1:D:158:TYR:CE1	2.38	0.59
1:D:864:LEU:HG	1:D:865:THR:H	1.66	0.59
1:C:959:LEU:HD13	1:C:1033:LEU:CD2	2.26	0.59
1:D:887:PHE:O	1:D:890:ILE:HG12	2.02	0.59
1:C:97:PRO:HG2	1:C:158:TYR:CE1	2.38	0.58
1:C:703:GLN:HG2	1:C:792:ASP:OD1	2.03	0.58
1:C:887:PHE:O	1:C:890:ILE:HG12	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:445:VAL:HG22	1:D:526:PRO:HG2	1.85	0.58
1:B:459:ARG:CD	1:B:526:PRO:HG3	2.33	0.58
1:B:803:LYS:CA	1:B:804:CYS:N	2.65	0.58
1:D:443:TYR:HB2	1:D:526:PRO:HB3	1.85	0.58
1:A:703:GLN:HG2	1:A:792:ASP:OD1	2.03	0.58
1:C:815:LEU:HB3	1:C:848:TRP:HB3	1.84	0.58
1:C:853:VAL:HG13	1:C:853:VAL:O	2.04	0.58
1:A:663:LEU:HD23	1:A:698:SER:HB2	1.84	0.58
1:A:815:LEU:HB3	1:A:848:TRP:HB3	1.84	0.58
1:A:887:PHE:O	1:A:890:ILE:HG12	2.02	0.58
1:A:938:LYS:HE3	1:A:941:PHE:CD2	2.38	0.58
1:C:895:GLN:CG	1:C:931:ARG:HB3	2.33	0.58
1:A:815:LEU:HA	1:A:848:TRP:HD1	1.66	0.58
1:B:802:TYR:CE1	1:B:821:PHE:HD1	2.21	0.58
1:C:876:VAL:HG22	1:C:916:CYS:O	2.03	0.58
1:A:853:VAL:HG13	1:A:853:VAL:O	2.04	0.58
1:A:876:VAL:HG22	1:A:916:CYS:O	2.03	0.58
1:A:895:GLN:CG	1:A:931:ARG:HB3	2.33	0.58
1:B:97:PRO:HG2	1:B:158:TYR:CE1	2.38	0.58
1:A:422:LEU:HD13	1:B:605:GLN:HG2	1.78	0.58
1:B:533:LEU:HD13	1:B:639:SER:CB	2.33	0.58
1:D:876:VAL:HG22	1:D:916:CYS:O	2.04	0.58
1:D:1015:LEU:HD23	1:D:1039:ASP:N	2.18	0.58
1:D:550:ASN:HB3	1:D:586:PRO:CB	2.33	0.58
1:D:895:GLN:CG	1:D:931:ARG:HB3	2.34	0.58
1:D:938:LYS:HE3	1:D:941:PHE:CD2	2.39	0.58
1:D:988:TYR:C	1:D:989:LEU:HD12	2.24	0.58
1:C:988:TYR:C	1:C:989:LEU:HD12	2.24	0.58
1:C:1017:PRO:HB3	1:C:1034:GLN:NE2	2.19	0.58
1:D:703:GLN:HG2	1:D:792:ASP:OD1	2.03	0.58
1:D:815:LEU:CD2	1:D:853:VAL:HG11	2.23	0.58
1:D:959:LEU:HD13	1:D:1033:LEU:CD2	2.26	0.58
1:A:815:LEU:N	1:A:815:LEU:HD12	2.19	0.58
1:A:931:ARG:HD3	1:A:943:THR:O	2.04	0.58
1:C:1015:LEU:HD23	1:C:1039:ASP:N	2.18	0.58
1:D:815:LEU:HA	1:D:848:TRP:HD1	1.66	0.58
1:D:931:ARG:HD3	1:D:943:THR:O	2.04	0.58
1:D:1017:PRO:HB3	1:D:1034:GLN:NE2	2.19	0.58
1:A:700:ASP:O	1:A:702:PRO:HD3	2.04	0.57
1:B:703:GLN:HG2	1:B:792:ASP:OD1	2.03	0.57
1:C:786:ASN:ND2	1:C:789:PHE:HE2	2.00	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:988:TYR:CE2	1:C:991:ASN:N	2.71	0.57
1:D:815:LEU:N	1:D:815:LEU:HD12	2.19	0.57
1:C:938:LYS:HE3	1:C:941:PHE:CD2	2.38	0.57
1:D:459:ARG:HD3	1:D:524:GLY:O	2.04	0.57
1:B:690:PHE:HD2	1:B:731:GLN:HG3	1.68	0.57
1:B:843:SER:OG	1:B:844:PRO:HD3	2.05	0.57
1:C:910:ILE:O	1:C:910:ILE:HG23	2.04	0.57
1:A:815:LEU:CD2	1:A:853:VAL:HG11	2.23	0.57
1:B:815:LEU:HD12	1:B:815:LEU:N	2.19	0.57
1:D:853:VAL:HG13	1:D:853:VAL:O	2.04	0.57
1:B:533:LEU:O	1:B:646:PHE:HB3	2.04	0.57
1:B:775:SER:HB3	1:B:807:GLN:OE1	2.04	0.57
1:C:815:LEU:N	1:C:815:LEU:HD12	2.20	0.57
1:D:910:ILE:HG23	1:D:910:ILE:O	2.04	0.57
1:D:934:ILE:HD12	1:D:941:PHE:CD1	2.30	0.57
1:D:988:TYR:CE2	1:D:991:ASN:N	2.71	0.57
1:A:175:SER:OG	1:A:178:GLU:HG2	2.04	0.57
1:C:931:ARG:HD3	1:C:943:THR:O	2.04	0.57
1:C:988:TYR:CZ	1:C:989:LEU:N	2.73	0.57
1:A:910:ILE:HG23	1:A:910:ILE:O	2.04	0.57
1:C:175:SER:OG	1:C:178:GLU:HG2	2.04	0.57
1:C:843:SER:OG	1:C:844:PRO:HD3	2.05	0.57
1:D:988:TYR:CZ	1:D:989:LEU:N	2.73	0.57
1:B:425:TYR:OH	1:B:456:LYS:HE2	2.05	0.57
1:C:550:ASN:HB2	1:C:586:PRO:HB3	1.86	0.57
1:D:175:SER:OG	1:D:178:GLU:HG2	2.04	0.57
1:B:802:TYR:CD2	1:B:821:PHE:HD1	2.23	0.56
1:D:533:LEU:HD13	1:D:642:THR:CB	2.35	0.56
1:B:853:VAL:HG13	1:B:853:VAL:O	2.04	0.56
1:C:775:SER:HB2	1:C:806:ALA:H	1.69	0.56
1:D:407:LEU:O	1:D:411:GLN:HG2	2.05	0.56
1:D:529:GLY:HA3	1:D:552:PHE:CZ	2.40	0.56
1:A:529:GLY:HA3	1:A:552:PHE:CZ	2.40	0.56
1:A:532:ALA:CB	1:A:560:MET:CE	2.73	0.56
1:B:533:LEU:CD2	1:B:646:PHE:CE1	2.85	0.56
1:B:663:LEU:HD12	1:B:703:GLN:NE2	2.12	0.56
1:C:425:TYR:OH	1:C:456:LYS:HE2	2.05	0.56
1:C:529:GLY:HA3	1:C:552:PHE:CZ	2.41	0.56
1:D:663:LEU:CG	1:D:792:ASP:OD2	2.53	0.56
1:D:830:ARG:O	1:D:830:ARG:HG2	2.06	0.56
1:B:175:SER:OG	1:B:178:GLU:HG2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:974:ILE:HD11	1:C:1004:ILE:HB	1.88	0.56
1:D:663:LEU:HD12	1:D:792:ASP:OD2	2.02	0.56
1:D:843:SER:OG	1:D:844:PRO:HD3	2.05	0.56
1:A:420:GLU:HB3	1:B:607:SER:HB3	1.87	0.56
1:B:407:LEU:O	1:B:411:GLN:HG2	2.05	0.56
1:C:407:LEU:O	1:C:411:GLN:HG2	2.05	0.56
1:A:324:GLN:NE2	1:B:576:ARG:HD2	2.20	0.56
1:A:533:LEU:HD23	1:A:646:PHE:CD2	2.41	0.56
1:B:529:GLY:HA3	1:B:552:PHE:CZ	2.40	0.56
1:B:676:LYS:HG3	1:B:702:PRO:HG2	1.86	0.56
1:D:974:ILE:HD11	1:D:1004:ILE:HB	1.88	0.56
1:B:551:ARG:HH22	1:B:642:THR:CG2	2.19	0.56
1:C:985:VAL:HG11	1:C:999:ARG:HD3	1.88	0.56
1:C:815:LEU:CD2	1:C:853:VAL:HG11	2.23	0.56
1:D:508:VAL:HG12	1:D:509:GLU:N	2.20	0.56
1:A:753:LEU:HD12	1:A:753:LEU:N	2.21	0.56
1:C:830:ARG:O	1:C:830:ARG:HG2	2.06	0.56
1:D:985:VAL:HG11	1:D:999:ARG:HD3	1.88	0.56
1:B:551:ARG:HH22	1:B:642:THR:HG21	1.71	0.55
1:A:407:LEU:O	1:A:411:GLN:HG2	2.05	0.55
1:A:425:TYR:OH	1:A:456:LYS:HE2	2.05	0.55
1:A:843:SER:OG	1:A:844:PRO:HD3	2.05	0.55
1:C:235:LEU:HG	1:C:236:VAL:HG23	1.88	0.55
1:D:425:TYR:OH	1:D:456:LYS:HE2	2.05	0.55
1:D:938:LYS:HE3	1:D:941:PHE:CE2	2.41	0.55
1:A:235:LEU:HG	1:A:236:VAL:HG23	1.88	0.55
1:A:830:ARG:O	1:A:830:ARG:HG2	2.06	0.55
1:C:923:ILE:HG12	1:C:924:GLY:H	1.72	0.55
1:D:533:LEU:HD13	1:D:639:SER:OG	2.05	0.55
1:D:663:LEU:HD12	1:D:792:ASP:HB3	1.75	0.55
1:D:904:ILE:HG21	1:D:907:GLU:HB2	1.88	0.55
1:A:508:VAL:O	1:A:509:GLU:HA	2.06	0.55
1:B:753:LEU:N	1:B:753:LEU:HD12	2.21	0.55
1:C:727:LEU:HD11	1:C:760:VAL:CG2	2.37	0.55
1:C:904:ILE:HG21	1:C:907:GLU:HB2	1.88	0.55
1:C:938:LYS:HE3	1:C:941:PHE:CE2	2.41	0.55
1:D:235:LEU:HG	1:D:236:VAL:HG23	1.88	0.55
1:B:830:ARG:O	1:B:830:ARG:HG2	2.06	0.55
1:C:1015:LEU:HD21	1:C:1039:ASP:CA	2.37	0.55
1:A:727:LEU:HD11	1:A:760:VAL:CG2	2.37	0.55
1:A:938:LYS:HE3	1:A:941:PHE:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:727:LEU:HD11	1:B:760:VAL:CG2	2.37	0.55
1:C:747:VAL:HG13	1:C:747:VAL:O	2.07	0.55
1:C:753:LEU:N	1:C:753:LEU:HD12	2.21	0.55
1:D:923:ILE:HG12	1:D:924:GLY:H	1.72	0.55
1:C:894:VAL:HG21	1:C:903:PRO:HG3	1.89	0.55
1:D:1015:LEU:HD21	1:D:1039:ASP:CA	2.37	0.55
1:A:883:LEU:HD12	1:A:883:LEU:N	2.21	0.55
1:B:235:LEU:HG	1:B:236:VAL:HG23	1.88	0.55
1:B:747:VAL:HG13	1:B:747:VAL:O	2.07	0.55
1:C:873:GLY:CA	1:C:1026:ARG:HG3	2.35	0.55
1:C:883:LEU:HD12	1:C:883:LEU:N	2.22	0.55
1:C:1024:VAL:O	1:C:1024:VAL:HG13	2.06	0.55
1:B:775:SER:HB2	1:B:807:GLN:CG	2.37	0.54
1:D:747:VAL:HG13	1:D:747:VAL:O	2.07	0.54
1:D:1024:VAL:O	1:D:1024:VAL:HG13	2.06	0.54
1:A:747:VAL:HG13	1:A:747:VAL:O	2.07	0.54
1:B:87:PRO:HB2	1:B:109:LEU:HD11	1.90	0.54
1:D:663:LEU:HG	1:D:792:ASP:OD2	2.08	0.54
1:D:894:VAL:HG21	1:D:903:PRO:HG3	1.89	0.54
1:A:904:ILE:HG21	1:A:907:GLU:HB2	1.88	0.54
1:B:802:TYR:CD1	1:B:821:PHE:HD1	2.24	0.54
1:C:574:HIS:ND1	1:C:618:PRO:HD3	2.22	0.54
1:D:883:LEU:N	1:D:883:LEU:HD12	2.22	0.54
1:B:550:ASN:CB	1:B:585:ALA:O	2.56	0.54
1:C:887:PHE:CD1	1:C:890:ILE:HD11	2.43	0.54
1:D:1020:VAL:HG23	1:D:1020:VAL:O	2.07	0.54
1:A:890:ILE:HB	1:A:893:HIS:CD2	2.42	0.54
1:B:784:VAL:HG12	1:B:785:TRP:N	2.23	0.54
1:C:1015:LEU:HD21	1:C:1039:ASP:CB	2.38	0.54
1:C:1020:VAL:HG23	1:C:1020:VAL:O	2.07	0.54
1:D:551:ARG:HH12	1:D:641:GLU:CD	2.06	0.54
1:D:887:PHE:CD1	1:D:890:ILE:HD11	2.43	0.54
1:D:1015:LEU:HD21	1:D:1039:ASP:CB	2.38	0.54
1:A:894:VAL:HG21	1:A:903:PRO:HG3	1.89	0.54
1:C:551:ARG:NH2	1:C:642:THR:HG22	2.22	0.54
1:D:574:HIS:ND1	1:D:618:PRO:HD3	2.22	0.54
1:D:775:SER:H	1:D:807:GLN:HG3	1.72	0.54
1:B:574:HIS:ND1	1:B:618:PRO:HD3	2.22	0.54
1:D:775:SER:HB3	1:D:807:GLN:CD	2.28	0.54
1:D:812:GLY:HA2	1:D:885:LEU:CD2	2.36	0.54
1:A:887:PHE:CD1	1:A:890:ILE:HD11	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:655:ASN:O	1:B:658:ALA:CB	2.56	0.54
1:D:727:LEU:HD11	1:D:760:VAL:CG2	2.37	0.54
1:D:753:LEU:HD12	1:D:753:LEU:N	2.21	0.54
1:D:784:VAL:HG12	1:D:785:TRP:N	2.23	0.54
1:D:1015:LEU:H	1:D:1015:LEU:CD1	2.21	0.54
1:A:574:HIS:ND1	1:A:618:PRO:HD3	2.22	0.54
1:C:1015:LEU:H	1:C:1015:LEU:CD1	2.21	0.54
1:A:87:PRO:HB2	1:A:109:LEU:HD11	1.90	0.53
1:A:907:GLU:HB3	1:A:915:VAL:HG21	1.91	0.53
1:C:784:VAL:HG12	1:C:785:TRP:N	2.23	0.53
1:C:1038:ILE:HG22	1:C:1039:ASP:N	2.23	0.53
1:D:812:GLY:HA3	1:D:885:LEU:HD21	1.84	0.53
1:D:885:LEU:HA	1:D:910:ILE:HD11	1.90	0.53
1:A:883:LEU:HD23	1:A:914:ILE:CD1	2.39	0.53
1:D:87:PRO:HB2	1:D:109:LEU:HD11	1.90	0.53
1:D:438:TYR:HH	1:D:527:HIS:CD2	2.23	0.53
1:D:883:LEU:HD23	1:D:914:ILE:CD1	2.39	0.53
1:D:1038:ILE:HG22	1:D:1039:ASP:N	2.23	0.53
1:A:923:ILE:HG12	1:A:924:GLY:H	1.72	0.53
1:B:550:ASN:HB2	1:B:585:ALA:O	2.09	0.53
1:B:723:LYS:N	1:B:723:LYS:HD2	2.24	0.53
1:B:533:LEU:HA	1:B:646:PHE:HB3	1.88	0.53
1:A:705:VAL:HG12	1:A:706:PRO:N	2.24	0.53
1:A:754:ARG:O	1:A:754:ARG:HG3	2.09	0.53
1:C:87:PRO:HB2	1:C:109:LEU:HD11	1.90	0.53
1:C:470:TYR:CE1	1:C:525:ASP:CG	2.82	0.53
1:A:885:LEU:HA	1:A:910:ILE:HD11	1.90	0.53
1:C:876:VAL:CG2	1:C:916:CYS:HB3	2.39	0.53
1:C:883:LEU:HD23	1:C:914:ILE:CD1	2.39	0.53
1:C:988:TYR:OH	1:C:992:GLN:N	2.42	0.53
1:D:907:GLU:HB3	1:D:915:VAL:HG21	1.90	0.53
1:A:723:LYS:HD2	1:A:723:LYS:N	2.24	0.53
1:B:802:TYR:CE2	1:B:821:PHE:CD1	2.97	0.53
1:C:712:ILE:HB	1:C:801:LEU:HD23	1.91	0.53
1:D:876:VAL:CG2	1:D:916:CYS:HB3	2.39	0.53
1:B:712:ILE:HB	1:B:801:LEU:HD23	1.91	0.53
1:C:550:ASN:HB3	1:C:586:PRO:HB3	1.91	0.53
1:D:988:TYR:OH	1:D:992:GLN:N	2.42	0.53
1:A:463:PRO:CD	1:B:612:ILE:CG2	2.84	0.52
1:B:702:PRO:HA	1:B:726:ASN:HB2	1.91	0.52
1:C:907:GLU:HB3	1:C:915:VAL:HG21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:958:SER:C	1:C:959:LEU:HD12	2.30	0.52
1:B:550:ASN:C	1:B:586:PRO:HG3	2.29	0.52
1:C:885:LEU:HA	1:C:910:ILE:HD11	1.90	0.52
1:C:1015:LEU:CD2	1:C:1039:ASP:HB2	2.39	0.52
1:D:443:TYR:CB	1:D:526:PRO:HB3	2.39	0.52
1:D:938:LYS:HB2	1:D:941:PHE:CD2	2.42	0.52
1:A:784:VAL:HG12	1:A:785:TRP:N	2.23	0.52
1:D:723:LYS:N	1:D:723:LYS:HD2	2.24	0.52
1:D:958:SER:C	1:D:959:LEU:HD12	2.30	0.52
1:D:1015:LEU:CD2	1:D:1039:ASP:HB2	2.39	0.52
1:A:549:ALA:O	1:A:586:PRO:CA	2.57	0.52
1:A:816:LYS:NZ	1:A:910:ILE:HG23	2.24	0.52
1:B:533:LEU:HD21	1:B:646:PHE:CG	2.34	0.52
1:C:785:TRP:CE3	1:C:786:ASN:HB2	2.45	0.52
1:C:797:LEU:HD12	1:C:797:LEU:N	2.25	0.52
1:A:221:PHE:CZ	1:C:830:ARG:CB	2.92	0.52
1:A:785:TRP:CE3	1:A:786:ASN:HB2	2.45	0.52
1:A:797:LEU:HD12	1:A:797:LEU:N	2.25	0.52
1:B:754:ARG:O	1:B:754:ARG:HG3	2.09	0.52
1:D:712:ILE:HB	1:D:801:LEU:HD23	1.91	0.52
1:A:533:LEU:CD2	1:A:646:PHE:CG	2.93	0.52
1:A:876:VAL:CG2	1:A:916:CYS:HB3	2.39	0.52
1:C:723:LYS:HD2	1:C:723:LYS:N	2.24	0.52
1:C:967:SER:O	1:C:1010:PRO:HG3	2.09	0.52
1:C:1005:VAL:HG23	1:C:1005:VAL:O	2.09	0.52
1:D:785:TRP:CE3	1:D:786:ASN:HB2	2.45	0.52
1:D:996:PHE:CZ	1:D:999:ARG:HB2	2.39	0.52
1:A:702:PRO:C	1:A:703:GLN:CA	2.77	0.52
1:A:890:ILE:O	1:A:893:HIS:HB3	2.09	0.52
1:B:711:LEU:N	1:B:711:LEU:HD12	2.25	0.52
1:B:797:LEU:HD12	1:B:797:LEU:N	2.25	0.52
1:B:815:LEU:CD2	1:B:853:VAL:HG11	2.23	0.52
1:C:533:LEU:HD12	1:C:642:THR:HG23	1.89	0.52
1:D:822:GLU:O	1:D:822:GLU:HG2	2.10	0.52
1:C:533:LEU:CD1	1:C:642:THR:CG2	2.83	0.52
1:C:822:GLU:O	1:C:822:GLU:HG2	2.10	0.52
1:D:967:SER:O	1:D:1010:PRO:HG3	2.09	0.52
1:B:470:TYR:CE1	1:B:525:ASP:OD2	2.63	0.52
1:C:996:PHE:CZ	1:C:999:ARG:HB2	2.39	0.52
1:A:422:LEU:HD12	1:B:605:GLN:NE2	2.25	0.52
1:B:702:PRO:O	1:B:703:GLN:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:988:TYR:HB3	1:C:1021:SER:O	2.09	0.52
1:C:711:LEU:N	1:C:711:LEU:HD12	2.25	0.51
1:C:754:ARG:O	1:C:754:ARG:HG3	2.09	0.51
1:D:705:VAL:HG12	1:D:706:PRO:N	2.24	0.51
1:D:711:LEU:HD12	1:D:711:LEU:N	2.25	0.51
1:D:797:LEU:HD12	1:D:797:LEU:N	2.25	0.51
1:D:890:ILE:O	1:D:893:HIS:HB3	2.10	0.51
1:D:1005:VAL:HG23	1:D:1005:VAL:O	2.09	0.51
1:A:712:ILE:HB	1:A:801:LEU:HD23	1.91	0.51
1:A:822:GLU:HG2	1:A:822:GLU:O	2.10	0.51
1:B:274:LEU:HD12	1:B:274:LEU:N	2.25	0.51
1:B:655:ASN:O	1:B:658:ALA:HB3	2.10	0.51
1:B:705:VAL:HG12	1:B:706:PRO:N	2.24	0.51
1:C:655:ASN:C	1:C:657:SER:N	2.62	0.51
1:C:993:THR:HG22	1:C:994:CYS:N	2.25	0.51
1:D:956:VAL:HG13	1:D:956:VAL:O	2.10	0.51
1:B:308:ARG:HB2	1:B:343:GLN:HG2	1.92	0.51
1:D:923:ILE:HG12	1:D:924:GLY:N	2.26	0.51
1:D:988:TYR:HB3	1:D:1021:SER:O	2.09	0.51
1:A:716:GLU:HA	1:A:716:GLU:OE1	2.10	0.51
1:C:533:LEU:CD1	1:C:641:GLU:HB3	2.40	0.51
1:C:890:ILE:HB	1:C:893:HIS:CD2	2.42	0.51
1:C:956:VAL:O	1:C:956:VAL:HG13	2.10	0.51
1:D:754:ARG:HG3	1:D:754:ARG:O	2.09	0.51
1:D:993:THR:HG22	1:D:994:CYS:N	2.25	0.51
1:A:923:ILE:HG12	1:A:924:GLY:N	2.26	0.51
1:C:445:VAL:CG2	1:C:526:PRO:HG2	2.39	0.51
1:C:705:VAL:HG12	1:C:706:PRO:N	2.24	0.51
1:D:896:VAL:O	1:D:897:ALA:HB3	2.10	0.51
1:A:655:ASN:O	1:A:658:ALA:CA	2.58	0.51
1:B:785:TRP:CE3	1:B:786:ASN:HB2	2.45	0.51
1:C:533:LEU:O	1:C:644:LYS:HB2	2.10	0.51
1:D:574:HIS:CE1	1:D:618:PRO:HD3	2.46	0.51
1:D:713:PRO:HG3	1:D:802:TYR:CZ	2.45	0.51
1:D:931:ARG:HH11	1:D:942:MET:HE3	1.75	0.51
1:A:176:GLU:HG3	1:A:177:GLY:N	2.26	0.51
1:A:711:LEU:HD12	1:A:711:LEU:N	2.25	0.51
1:B:235:LEU:HD21	1:B:263:PRO:HG2	1.92	0.51
1:B:676:LYS:HE2	1:B:728:PRO:CB	2.28	0.51
1:B:692:GLU:CD	1:D:141:ARG:NH2	2.42	0.51
1:C:716:GLU:OE1	1:C:716:GLU:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:954:PRO:HG3	1:C:978:TYR:O	2.10	0.51
1:D:308:ARG:HB2	1:D:343:GLN:HG2	1.92	0.51
1:D:954:PRO:HG3	1:D:978:TYR:O	2.10	0.51
1:A:274:LEU:HD12	1:A:274:LEU:N	2.25	0.51
1:A:574:HIS:CE1	1:A:618:PRO:HD3	2.46	0.51
1:A:816:LYS:CE	1:A:910:ILE:CG2	2.70	0.51
1:A:896:VAL:O	1:A:897:ALA:HB3	2.10	0.51
1:A:938:LYS:HB2	1:A:941:PHE:CD2	2.42	0.51
1:B:822:GLU:O	1:B:822:GLU:HG2	2.10	0.51
1:C:574:HIS:CE1	1:C:618:PRO:HD3	2.46	0.51
1:C:871:GLU:OE1	1:C:1027:ALA:HB2	2.11	0.51
1:D:716:GLU:HA	1:D:716:GLU:OE1	2.10	0.51
1:D:799:VAL:HG23	1:D:799:VAL:O	2.11	0.51
1:C:890:ILE:O	1:C:893:HIS:HB3	2.10	0.51
1:C:923:ILE:HG12	1:C:924:GLY:N	2.26	0.51
1:C:988:TYR:O	1:C:1020:VAL:HA	2.11	0.51
1:C:713:PRO:HG3	1:C:802:TYR:CZ	2.45	0.51
1:C:938:LYS:HB2	1:C:941:PHE:CD2	2.42	0.51
1:D:461:ASP:O	1:D:466:GLY:O	2.29	0.51
1:A:533:LEU:HD22	1:A:646:PHE:CD1	2.46	0.50
1:A:890:ILE:HG13	1:A:891:ALA:N	2.26	0.50
1:B:532:ALA:HB1	1:B:560:MET:HE2	1.89	0.50
1:B:833:THR:HG23	1:B:837:HIS:HB2	1.92	0.50
1:C:461:ASP:O	1:C:466:GLY:O	2.29	0.50
1:A:713:PRO:HG3	1:A:802:TYR:CZ	2.45	0.50
1:A:833:THR:HG23	1:A:837:HIS:HB2	1.91	0.50
1:A:870:PRO:HG2	1:A:871:GLU:OE1	2.11	0.50
1:B:176:GLU:HG3	1:B:177:GLY:N	2.26	0.50
1:B:461:ASP:O	1:B:466:GLY:O	2.29	0.50
1:B:699:GLU:O	1:B:725:ARG:NH2	2.45	0.50
1:B:713:PRO:HG3	1:B:802:TYR:CZ	2.46	0.50
1:C:235:LEU:HD21	1:C:263:PRO:HG2	1.93	0.50
1:C:896:VAL:O	1:C:897:ALA:HB3	2.10	0.50
1:C:988:TYR:HE2	1:C:991:ASN:H	1.55	0.50
1:D:176:GLU:HG3	1:D:177:GLY:N	2.26	0.50
1:D:274:LEU:HD12	1:D:274:LEU:N	2.25	0.50
1:D:988:TYR:O	1:D:1020:VAL:HA	2.11	0.50
1:B:533:LEU:HD21	1:B:646:PHE:CZ	2.45	0.50
1:C:308:ARG:HB2	1:C:343:GLN:HG2	1.92	0.50
1:C:533:LEU:CD1	1:C:639:SER:OG	2.59	0.50
1:C:775:SER:CA	1:C:806:ALA:HB3	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:833:THR:HG23	1:C:837:HIS:HB2	1.92	0.50
1:D:833:THR:HG23	1:D:837:HIS:HB2	1.91	0.50
1:D:848:TRP:HA	1:D:853:VAL:HG11	1.94	0.50
1:C:848:TRP:HA	1:C:853:VAL:HG11	1.94	0.50
1:D:863:ILE:HD11	1:D:876:VAL:HB	1.94	0.50
1:D:870:PRO:HG2	1:D:871:GLU:OE1	2.11	0.50
1:A:461:ASP:O	1:A:466:GLY:O	2.29	0.50
1:A:808:ARG:HD2	1:A:813:LEU:C	2.32	0.50
1:B:799:VAL:HG23	1:B:799:VAL:O	2.11	0.50
1:B:808:ARG:HD2	1:B:813:LEU:C	2.32	0.50
1:C:808:ARG:HD2	1:C:813:LEU:C	2.32	0.50
1:C:988:TYR:CE2	1:C:990:GLY:N	2.80	0.50
1:D:988:TYR:CE2	1:D:990:GLY:N	2.80	0.50
1:A:308:ARG:HB2	1:A:343:GLN:HG2	1.92	0.50
1:B:574:HIS:CE1	1:B:618:PRO:HD3	2.46	0.50
1:B:716:GLU:OE1	1:B:716:GLU:HA	2.10	0.50
1:C:931:ARG:CG	1:C:942:MET:HE3	2.41	0.50
1:D:890:ILE:HB	1:D:893:HIS:CD2	2.42	0.50
1:A:863:ILE:HD11	1:A:876:VAL:HB	1.94	0.50
1:D:550:ASN:CB	1:D:586:PRO:CA	2.85	0.50
1:A:815:LEU:CA	1:A:848:TRP:CD1	2.94	0.50
1:C:274:LEU:HD12	1:C:274:LEU:N	2.25	0.50
1:C:815:LEU:CA	1:C:848:TRP:CD1	2.94	0.50
1:D:235:LEU:HD21	1:D:263:PRO:HG2	1.93	0.50
1:A:539:ARG:HD2	1:A:542:LYS:NZ	2.27	0.50
1:C:539:ARG:HD2	1:C:542:LYS:NZ	2.27	0.50
1:C:1017:PRO:HB3	1:C:1034:GLN:CD	2.31	0.50
1:D:508:VAL:CG1	1:D:509:GLU:N	2.67	0.50
1:D:815:LEU:CA	1:D:848:TRP:CD1	2.94	0.50
1:A:235:LEU:HD21	1:A:263:PRO:HG2	1.92	0.49
1:B:815:LEU:CA	1:B:848:TRP:CD1	2.94	0.49
1:C:931:ARG:HH11	1:C:942:MET:HE3	1.77	0.49
1:D:1017:PRO:HB3	1:D:1034:GLN:CD	2.31	0.49
1:A:655:ASN:CG	1:A:658:ALA:HB2	2.32	0.49
1:C:559:CYS:O	1:C:584:ASP:HB3	2.10	0.49
1:C:863:ILE:HD11	1:C:876:VAL:HB	1.93	0.49
1:C:933:CYS:HA	1:C:942:MET:SD	2.53	0.49
1:D:539:ARG:HD2	1:D:542:LYS:NZ	2.27	0.49
1:A:799:VAL:HG23	1:A:799:VAL:O	2.11	0.49
1:A:848:TRP:HA	1:A:853:VAL:HG11	1.94	0.49
1:A:933:CYS:HA	1:A:942:MET:SD	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:893:HIS:CE1	1:C:932:LEU:HA	2.47	0.49
1:D:775:SER:HB2	1:D:807:GLN:CB	2.42	0.49
1:D:808:ARG:HD2	1:D:813:LEU:C	2.32	0.49
1:A:324:GLN:NE2	1:B:576:ARG:HE	2.11	0.49
1:D:533:LEU:O	1:D:644:LYS:CG	2.61	0.49
1:D:974:ILE:CG1	1:D:1004:ILE:HB	2.43	0.49
1:D:988:TYR:HE2	1:D:991:ASN:H	1.55	0.49
1:A:673:HIS:CD2	1:A:685:PRO:HG3	2.48	0.49
1:D:984:SER:O	1:D:1024:VAL:HG23	2.13	0.49
1:B:539:ARG:HD2	1:B:542:LYS:NZ	2.27	0.49
1:C:176:GLU:HG3	1:C:177:GLY:N	2.26	0.49
1:C:673:HIS:CD2	1:C:685:PRO:HG3	2.48	0.49
1:C:774:ILE:C	1:C:806:ALA:CB	2.81	0.49
1:C:799:VAL:O	1:C:799:VAL:HG23	2.11	0.49
1:C:974:ILE:CG1	1:C:1004:ILE:HB	2.43	0.49
1:D:673:HIS:CD2	1:D:685:PRO:HG3	2.48	0.49
1:D:898:GLY:O	1:D:900:PRO:HD3	2.12	0.49
1:D:931:ARG:CG	1:D:942:MET:HE3	2.42	0.49
1:D:1022:VAL:HG13	1:D:1022:VAL:O	2.12	0.49
1:A:217:LEU:CD1	1:C:940:GLU:OE1	2.55	0.49
1:B:560:MET:CE	1:B:586:PRO:HD3	2.43	0.49
1:B:705:VAL:HG13	1:B:706:PRO:HD2	1.95	0.49
1:B:775:SER:N	1:B:807:GLN:CD	2.50	0.49
1:C:677:TYR:HD1	1:C:731:GLN:CG	2.17	0.49
1:C:890:ILE:HG13	1:C:891:ALA:N	2.26	0.49
1:C:1022:VAL:O	1:C:1022:VAL:HG13	2.12	0.49
1:D:893:HIS:CE1	1:D:932:LEU:HA	2.48	0.49
1:D:970:THR:HG22	1:D:1008:SER:OG	2.13	0.49
1:A:864:LEU:HB3	1:A:877:THR:HB	1.95	0.49
1:B:237:SER:OG	1:B:238:HIS:HA	2.13	0.49
1:B:848:TRP:HA	1:B:853:VAL:HG11	1.94	0.49
1:C:137:CYS:SG	1:C:159:LEU:HD11	2.53	0.49
1:C:560:MET:CE	1:C:586:PRO:HD3	2.43	0.49
1:C:870:PRO:HG2	1:C:871:GLU:OE1	2.11	0.49
1:D:959:LEU:CG	1:D:974:ILE:HG22	2.28	0.49
1:A:898:GLY:O	1:A:900:PRO:HD3	2.12	0.49
1:C:970:THR:HG22	1:C:1008:SER:OG	2.13	0.49
1:D:890:ILE:HG13	1:D:891:ALA:N	2.26	0.49
1:A:237:SER:OG	1:A:238:HIS:HA	2.13	0.49
1:A:533:LEU:CD2	1:A:646:PHE:CD1	2.96	0.49
1:A:560:MET:CE	1:A:586:PRO:HD3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:703:GLN:O	1:B:724:ALA:HB1	2.13	0.49
1:C:984:SER:O	1:C:1024:VAL:HG23	2.13	0.49
1:C:988:TYR:CZ	1:C:991:ASN:N	2.80	0.49
1:D:988:TYR:CZ	1:D:991:ASN:N	2.80	0.49
1:A:398:VAL:HG22	1:C:946:HIS:O	2.13	0.48
1:C:859:GLN:HA	1:C:859:GLN:OE1	2.13	0.48
1:C:898:GLY:O	1:C:900:PRO:HD3	2.12	0.48
1:C:938:LYS:CE	1:C:941:PHE:CE2	2.96	0.48
1:C:959:LEU:CG	1:C:974:ILE:HG22	2.28	0.48
1:D:50:PHE:CE2	1:D:503:VAL:HG23	2.48	0.48
1:D:859:GLN:HA	1:D:859:GLN:OE1	2.13	0.48
1:D:864:LEU:HB3	1:D:877:THR:HB	1.95	0.48
1:D:933:CYS:HA	1:D:942:MET:SD	2.53	0.48
1:A:893:HIS:CE1	1:A:932:LEU:HA	2.48	0.48
1:B:459:ARG:HG3	1:B:526:PRO:HG3	1.94	0.48
1:C:533:LEU:CD2	1:C:639:SER:CB	2.84	0.48
1:A:705:VAL:HG13	1:A:706:PRO:HD2	1.95	0.48
1:C:703:GLN:O	1:C:724:ALA:HB1	2.14	0.48
1:C:804:CYS:SG	1:C:833:THR:HA	2.54	0.48
1:C:864:LEU:HB3	1:C:877:THR:HB	1.95	0.48
1:D:137:CYS:SG	1:D:159:LEU:HD11	2.53	0.48
1:D:661:LEU:HD21	1:D:790:ILE:HG13	1.94	0.48
1:D:711:LEU:HD23	1:D:821:PHE:CE1	2.48	0.48
1:D:829:GLU:O	1:D:830:ARG:HB3	2.14	0.48
1:B:137:CYS:SG	1:B:159:LEU:HD11	2.53	0.48
1:B:804:CYS:SG	1:B:833:THR:HA	2.54	0.48
1:D:703:GLN:O	1:D:724:ALA:HB1	2.14	0.48
1:D:804:CYS:SG	1:D:833:THR:HA	2.53	0.48
1:A:50:PHE:CE2	1:A:503:VAL:HG23	2.48	0.48
1:A:859:GLN:HA	1:A:859:GLN:OE1	2.13	0.48
1:B:50:PHE:CE2	1:B:503:VAL:HG23	2.48	0.48
1:B:732:SER:CB	1:D:83:HIS:NE2	2.75	0.48
1:D:440:TYR:CG	1:D:527:HIS:CD2	3.01	0.48
1:D:705:VAL:HG13	1:D:706:PRO:HD2	1.95	0.48
1:B:829:GLU:O	1:B:830:ARG:HB3	2.14	0.48
1:C:50:PHE:CE2	1:C:503:VAL:HG23	2.48	0.48
1:C:237:SER:OG	1:C:238:HIS:HA	2.13	0.48
1:C:959:LEU:HD12	1:C:1033:LEU:HD23	1.94	0.48
1:D:351:ASP:HA	1:D:431:ARG:HB2	1.96	0.48
1:D:660:GLN:C	1:D:661:LEU:HD12	2.34	0.48
1:D:848:TRP:HA	1:D:853:VAL:CG1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:938:LYS:CE	1:D:941:PHE:CE2	2.97	0.48
1:A:221:PHE:CE1	1:C:830:ARG:HB2	2.49	0.48
1:A:938:LYS:CE	1:A:941:PHE:CE2	2.97	0.48
1:B:95:TYR:HA	1:B:96:PRO:C	2.33	0.48
1:B:550:ASN:CG	1:B:585:ALA:O	2.46	0.48
1:C:351:ASP:HA	1:C:431:ARG:HB2	1.96	0.48
1:C:559:CYS:O	1:C:584:ASP:HB2	2.14	0.48
1:C:705:VAL:HG13	1:C:706:PRO:HD2	1.95	0.48
1:C:932:LEU:HD23	1:C:933:CYS:N	2.28	0.48
1:A:95:TYR:HA	1:A:96:PRO:C	2.33	0.48
1:A:594:CYS:O	1:A:601:GLU:HA	2.14	0.48
1:A:660:GLN:C	1:A:661:LEU:HD12	2.34	0.48
1:A:816:LYS:CD	1:A:910:ILE:HG23	2.44	0.48
1:C:848:TRP:HA	1:C:853:VAL:CG1	2.44	0.48
1:D:594:CYS:O	1:D:601:GLU:HA	2.14	0.48
1:D:842:SER:HB2	1:D:844:PRO:HD2	1.96	0.48
1:D:931:ARG:CD	1:D:942:MET:HE3	2.42	0.48
1:D:933:CYS:SG	1:D:937:CYS:N	2.87	0.48
1:A:932:LEU:HD23	1:A:933:CYS:N	2.28	0.48
1:B:594:CYS:O	1:B:601:GLU:HA	2.14	0.48
1:B:660:GLN:C	1:B:661:LEU:HD12	2.34	0.48
1:B:673:HIS:CD2	1:B:685:PRO:HG3	2.48	0.48
1:C:960:SER:CB	1:C:973:THR:HB	2.43	0.48
1:D:95:TYR:HA	1:D:96:PRO:C	2.33	0.48
1:D:237:SER:OG	1:D:238:HIS:HA	2.13	0.48
1:D:875:ARG:HG2	1:D:915:VAL:CG1	2.44	0.48
1:A:137:CYS:SG	1:A:159:LEU:HD11	2.53	0.48
1:A:848:TRP:HA	1:A:853:VAL:CG1	2.44	0.48
1:A:851:HIS:ND1	1:A:886:ASP:OD2	2.47	0.48
1:B:690:PHE:CE2	1:B:731:GLN:HG3	2.49	0.48
1:B:842:SER:HB2	1:B:844:PRO:HD2	1.96	0.48
1:B:848:TRP:HA	1:B:853:VAL:CG1	2.44	0.48
1:C:326:PHE:CG	1:C:359:PRO:HG3	2.49	0.48
1:C:933:CYS:SG	1:C:937:CYS:N	2.87	0.48
1:D:960:SER:CB	1:D:973:THR:HB	2.43	0.48
1:A:695:ILE:CD1	1:A:702:PRO:HD3	2.44	0.47
1:A:797:LEU:HD12	1:A:797:LEU:H	1.79	0.47
1:A:829:GLU:O	1:A:830:ARG:HB3	2.14	0.47
1:A:842:SER:HB2	1:A:844:PRO:HD2	1.96	0.47
1:B:327:ASN:CG	1:B:327:ASN:O	2.52	0.47
1:B:797:LEU:HD12	1:B:797:LEU:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:829:GLU:O	1:C:830:ARG:HB3	2.14	0.47
1:D:812:GLY:HA2	1:D:885:LEU:HD22	1.93	0.47
1:D:833:THR:HG21	1:D:837:HIS:CB	2.44	0.47
1:A:141:ARG:HD2	1:A:143:ASP:OD1	2.14	0.47
1:A:804:CYS:SG	1:A:833:THR:HA	2.54	0.47
1:B:326:PHE:CG	1:B:359:PRO:HG3	2.49	0.47
1:C:931:ARG:CD	1:C:942:MET:HE3	2.42	0.47
1:D:932:LEU:HD23	1:D:933:CYS:N	2.28	0.47
1:A:326:PHE:CG	1:A:359:PRO:HG3	2.50	0.47
1:B:470:TYR:HE1	1:B:525:ASP:OD2	1.98	0.47
1:C:327:ASN:CG	1:C:327:ASN:O	2.52	0.47
1:C:594:CYS:O	1:C:601:GLU:HA	2.14	0.47
1:C:660:GLN:C	1:C:661:LEU:HD12	2.34	0.47
1:C:932:LEU:HD23	1:C:932:LEU:C	2.34	0.47
1:D:560:MET:CE	1:D:586:PRO:HD3	2.43	0.47
1:D:1022:VAL:HG13	1:D:1029:VAL:HG12	1.94	0.47
1:A:932:LEU:HD23	1:A:932:LEU:C	2.34	0.47
1:B:141:ARG:HD2	1:B:143:ASP:OD1	2.14	0.47
1:C:833:THR:HG21	1:C:837:HIS:CB	2.44	0.47
1:C:876:VAL:HG23	1:C:876:VAL:O	2.14	0.47
1:D:874:THR:HG22	1:D:875:ARG:N	2.30	0.47
1:D:932:LEU:HD23	1:D:932:LEU:C	2.34	0.47
1:A:351:ASP:HA	1:A:431:ARG:HB2	1.96	0.47
1:A:695:ILE:HD13	1:A:702:PRO:HD3	1.97	0.47
1:A:903:PRO:HA	1:A:916:CYS:HA	1.96	0.47
1:C:141:ARG:HD2	1:C:143:ASP:OD1	2.14	0.47
1:C:1022:VAL:HG13	1:C:1029:VAL:HG12	1.94	0.47
1:D:959:LEU:HD12	1:D:1033:LEU:HD23	1.94	0.47
1:A:655:ASN:OD1	1:A:657:SER:CA	2.63	0.47
1:A:703:GLN:O	1:A:724:ALA:HB1	2.13	0.47
1:A:833:THR:HG21	1:A:837:HIS:CB	2.44	0.47
1:A:874:THR:HG22	1:A:875:ARG:N	2.30	0.47
1:A:876:VAL:O	1:A:876:VAL:HG23	2.14	0.47
1:A:933:CYS:SG	1:A:937:CYS:N	2.87	0.47
1:B:655:ASN:CA	1:B:656:CYS:N	2.69	0.47
1:B:712:ILE:HD12	1:B:799:VAL:HB	1.97	0.47
1:C:95:TYR:HA	1:C:96:PRO:C	2.33	0.47
1:D:326:PHE:CG	1:D:359:PRO:HG3	2.49	0.47
1:D:534:HIS:CD2	1:D:644:LYS:HZ2	2.32	0.47
1:D:551:ARG:HH11	1:D:641:GLU:CD	2.16	0.47
1:A:463:PRO:O	1:B:577:LEU:HD21	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:663:LEU:HD11	1:A:703:GLN:HE21	1.80	0.47
1:C:797:LEU:HD12	1:C:797:LEU:H	1.79	0.47
1:C:874:THR:HG22	1:C:875:ARG:N	2.30	0.47
1:C:875:ARG:HG2	1:C:915:VAL:CG1	2.44	0.47
1:D:701:CYS:HA	1:D:702:PRO:HD3	1.75	0.47
1:A:722:LEU:C	1:A:723:LYS:HD2	2.36	0.47
1:A:896:VAL:HG21	1:A:918:MET:CE	2.45	0.47
1:B:833:THR:HG21	1:B:837:HIS:CB	2.44	0.47
1:C:737:TYR:HE1	1:C:754:ARG:CD	2.25	0.47
1:C:896:VAL:HG21	1:C:918:MET:CE	2.45	0.47
1:C:960:SER:HB2	1:C:961:PRO:CD	2.45	0.47
1:D:141:ARG:HD2	1:D:143:ASP:OD1	2.14	0.47
1:D:550:ASN:ND2	1:D:585:ALA:O	2.48	0.47
1:D:638:ARG:HB2	1:D:645:ILE:HD13	1.97	0.47
1:D:960:SER:HB2	1:D:961:PRO:CD	2.45	0.47
1:A:327:ASN:CG	1:A:327:ASN:O	2.52	0.47
1:A:875:ARG:HG2	1:A:915:VAL:CG1	2.44	0.47
1:B:351:ASP:HA	1:B:431:ARG:HB2	1.96	0.47
1:D:327:ASN:CG	1:D:327:ASN:O	2.52	0.47
1:D:869:PRO:HD3	1:D:981:ALA:HB1	1.97	0.47
1:B:722:LEU:C	1:B:723:LYS:HD2	2.35	0.46
1:C:842:SER:HB2	1:C:844:PRO:HD2	1.96	0.46
1:A:655:ASN:CB	1:A:658:ALA:CB	2.77	0.46
1:D:159:LEU:HD13	1:D:184:ILE:HD13	1.98	0.46
1:D:896:VAL:HG21	1:D:918:MET:CE	2.45	0.46
1:A:476:PHE:CE2	1:A:482:ILE:HD13	2.51	0.46
1:A:663:LEU:HD11	1:A:703:GLN:NE2	2.30	0.46
1:A:712:ILE:HD12	1:A:799:VAL:HB	1.97	0.46
1:B:277:THR:HG22	1:B:279:ARG:HG3	1.98	0.46
1:C:328:ILE:HB	1:C:332:GLU:OE1	2.16	0.46
1:C:712:ILE:HD12	1:C:799:VAL:HB	1.97	0.46
1:C:988:TYR:C	1:C:988:TYR:CD2	2.84	0.46
1:D:775:SER:N	1:D:807:GLN:HG3	2.30	0.46
1:D:893:HIS:CG	1:D:894:VAL:N	2.83	0.46
1:A:539:ARG:HB2	1:A:542:LYS:HD3	1.97	0.46
1:B:638:ARG:HB2	1:B:645:ILE:HD13	1.97	0.46
1:C:159:LEU:HD13	1:C:184:ILE:HD13	1.98	0.46
1:C:875:ARG:HD3	1:C:907:GLU:OE1	2.16	0.46
1:D:445:VAL:CG2	1:D:526:PRO:HG2	2.44	0.46
1:D:712:ILE:HD12	1:D:799:VAL:HB	1.97	0.46
1:D:876:VAL:HG23	1:D:876:VAL:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:159:LEU:HD13	1:A:184:ILE:HD13	1.98	0.46
1:A:893:HIS:CG	1:A:894:VAL:N	2.83	0.46
1:B:654:TYR:CD2	1:B:670:PHE:CG	3.04	0.46
1:D:988:TYR:HE1	1:D:992:GLN:O	1.97	0.46
1:A:81:VAL:HG11	1:A:145:LEU:HB2	1.98	0.46
1:A:277:THR:HG22	1:A:279:ARG:HG3	1.98	0.46
1:A:875:ARG:HD3	1:A:907:GLU:OE1	2.16	0.46
1:B:328:ILE:HB	1:B:332:GLU:OE1	2.16	0.46
1:C:903:PRO:HA	1:C:916:CYS:HA	1.96	0.46
1:D:328:ILE:HB	1:D:332:GLU:OE1	2.16	0.46
1:A:328:ILE:HB	1:A:332:GLU:OE1	2.16	0.46
1:C:638:ARG:HB2	1:C:645:ILE:HD13	1.97	0.46
1:C:722:LEU:C	1:C:723:LYS:HD2	2.35	0.46
1:C:893:HIS:CG	1:C:894:VAL:N	2.83	0.46
1:C:896:VAL:HG21	1:C:918:MET:HE3	1.98	0.46
1:B:508:VAL:HG12	1:B:539:ARG:NH2	2.30	0.46
1:C:476:PHE:CE2	1:C:482:ILE:HD13	2.51	0.46
1:C:663:LEU:CG	1:C:792:ASP:OD2	2.59	0.46
1:C:988:TYR:HE1	1:C:992:GLN:O	1.97	0.46
1:D:476:PHE:CE2	1:D:482:ILE:HD13	2.51	0.46
1:D:903:PRO:HA	1:D:916:CYS:HA	1.96	0.46
1:D:988:TYR:CE1	1:D:992:GLN:O	2.68	0.46
1:A:654:TYR:HE1	1:A:656:CYS:SG	2.39	0.46
1:A:655:ASN:C	1:A:657:SER:N	2.68	0.46
1:A:672:CYS:HB3	1:A:681:CYS:SG	2.56	0.46
1:A:737:TYR:CE2	1:A:785:TRP:HB3	2.51	0.46
1:C:988:TYR:CE1	1:C:992:GLN:O	2.68	0.46
1:D:875:ARG:HD3	1:D:907:GLU:OE1	2.16	0.46
1:D:979:LEU:HD12	1:D:1003:GLU:HA	1.97	0.46
1:A:112:ASN:HB2	1:A:132:LEU:HD22	1.98	0.46
1:A:550:ASN:HB2	1:A:585:ALA:O	2.16	0.46
1:B:329:SER:HB3	1:B:332:GLU:HG3	1.98	0.46
1:D:539:ARG:HB2	1:D:542:LYS:HD3	1.97	0.46
1:D:722:LEU:C	1:D:723:LYS:HD2	2.35	0.46
1:D:797:LEU:HD12	1:D:797:LEU:H	1.79	0.46
1:D:904:ILE:HG23	1:D:904:ILE:O	2.15	0.46
1:A:545:ARG:NH1	1:A:641:GLU:OE2	2.49	0.45
1:B:476:PHE:CE2	1:B:482:ILE:HD13	2.51	0.45
1:C:533:LEU:CB	1:C:642:THR:CG2	2.73	0.45
1:C:672:CYS:HB3	1:C:681:CYS:SG	2.56	0.45
1:C:785:TRP:CD1	1:C:791:ILE:HD11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:470:TYR:CE1	1:D:525:ASP:CG	2.90	0.45
1:A:463:PRO:O	1:B:614:ILE:HG12	2.14	0.45
1:A:904:ILE:HG23	1:A:904:ILE:O	2.15	0.45
1:B:539:ARG:HB2	1:B:542:LYS:HD3	1.97	0.45
1:B:737:TYR:CE2	1:B:785:TRP:HB3	2.51	0.45
1:C:979:LEU:HD12	1:C:1003:GLU:HA	1.98	0.45
1:B:112:ASN:HB2	1:B:132:LEU:HD22	1.98	0.45
1:C:112:ASN:HB2	1:C:132:LEU:HD22	1.98	0.45
1:C:539:ARG:HB2	1:C:542:LYS:HD3	1.97	0.45
1:C:737:TYR:CE2	1:C:785:TRP:HB3	2.51	0.45
1:B:159:LEU:HD13	1:B:184:ILE:HD13	1.98	0.45
1:B:732:SER:HA	1:D:147:ILE:HD11	1.98	0.45
1:D:277:THR:HG22	1:D:279:ARG:HG3	1.98	0.45
1:D:672:CYS:HB3	1:D:681:CYS:SG	2.56	0.45
1:D:988:TYR:C	1:D:988:TYR:CD2	2.84	0.45
1:B:81:VAL:HG11	1:B:145:LEU:HB2	1.98	0.45
1:B:672:CYS:HB3	1:B:681:CYS:SG	2.56	0.45
1:D:735:ARG:HG3	1:D:786:ASN:HA	1.96	0.45
1:B:534:HIS:CD2	1:B:644:LYS:HG3	2.51	0.45
1:B:690:PHE:CE2	1:B:731:GLN:HB3	2.38	0.45
1:D:785:TRP:CD1	1:D:791:ILE:HD11	2.51	0.45
1:B:785:TRP:CD1	1:B:791:ILE:HD11	2.51	0.45
1:A:324:GLN:HE22	1:B:576:ARG:HA	1.82	0.45
1:A:559:CYS:C	1:A:560:MET:CA	2.83	0.45
1:B:802:TYR:CE2	1:B:821:PHE:HB3	2.51	0.45
1:D:112:ASN:HB2	1:D:132:LEU:HD22	1.98	0.45
1:D:551:ARG:HH12	1:D:641:GLU:CG	2.30	0.45
1:A:638:ARG:HB2	1:A:645:ILE:HD13	1.97	0.45
1:C:329:SER:HB3	1:C:332:GLU:HG3	1.98	0.45
1:C:808:ARG:HD2	1:C:813:LEU:O	2.17	0.45
1:C:954:PRO:HA	1:C:978:TYR:HB2	1.99	0.45
1:C:1022:VAL:CG1	1:C:1029:VAL:CG1	2.94	0.45
1:D:1022:VAL:CG1	1:D:1029:VAL:CG1	2.94	0.45
1:A:162:VAL:CG2	1:A:189:ASP:HB2	2.47	0.45
1:A:407:LEU:HD22	1:C:944:LYS:CD	2.04	0.45
1:A:705:VAL:CG1	1:A:706:PRO:N	2.80	0.45
1:B:533:LEU:HD23	1:B:533:LEU:HA	1.84	0.45
1:B:560:MET:HE1	1:B:586:PRO:HD3	1.98	0.45
1:C:162:VAL:CG2	1:C:189:ASP:HB2	2.47	0.45
1:C:533:LEU:HD23	1:C:533:LEU:HA	1.84	0.45
1:D:81:VAL:HG11	1:D:145:LEU:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:162:VAL:CG2	1:D:189:ASP:HB2	2.47	0.45
1:A:203:LEU:HD23	1:A:203:LEU:HA	1.84	0.44
1:D:920:HIS:CD2	1:D:922:VAL:H	2.35	0.44
1:D:954:PRO:HA	1:D:978:TYR:HB2	1.99	0.44
1:A:785:TRP:CD1	1:A:791:ILE:HD11	2.52	0.44
1:B:203:LEU:HD23	1:B:203:LEU:HA	1.84	0.44
1:C:985:VAL:O	1:C:985:VAL:HG23	2.16	0.44
1:D:737:TYR:CE2	1:D:785:TRP:HB3	2.51	0.44
1:D:985:VAL:O	1:D:985:VAL:HG23	2.16	0.44
1:A:329:SER:HB3	1:A:332:GLU:HG3	1.98	0.44
1:C:277:THR:HG22	1:C:279:ARG:HG3	1.98	0.44
1:C:904:ILE:HG23	1:C:904:ILE:O	2.15	0.44
1:C:920:HIS:CD2	1:C:922:VAL:H	2.35	0.44
1:C:992:GLN:OE1	1:C:1012:SER:HB2	2.17	0.44
1:A:655:ASN:CG	1:A:658:ALA:H	2.20	0.44
1:A:920:HIS:CD2	1:A:922:VAL:H	2.35	0.44
1:B:482:ILE:HG23	1:B:497:VAL:HG13	2.00	0.44
1:B:705:VAL:CG1	1:B:706:PRO:N	2.80	0.44
1:C:81:VAL:HG11	1:C:145:LEU:HB2	1.98	0.44
1:D:661:LEU:CD2	1:D:790:ILE:HG13	2.46	0.44
1:D:705:VAL:H	1:D:724:ALA:HA	1.83	0.44
1:D:855:CYS:SG	1:D:885:LEU:CD2	2.96	0.44
1:A:325:ALA:CA	1:B:577:LEU:HD13	2.46	0.44
1:B:808:ARG:HD2	1:B:813:LEU:O	2.17	0.44
1:C:149:VAL:HG22	1:C:150:GLU:N	2.33	0.44
1:C:705:VAL:CG1	1:C:706:PRO:N	2.80	0.44
1:D:808:ARG:HD2	1:D:813:LEU:O	2.17	0.44
1:D:974:ILE:HG13	1:D:974:ILE:O	2.18	0.44
1:D:992:GLN:OE1	1:D:1012:SER:HB2	2.17	0.44
1:B:772:MET:HB3	1:B:806:ALA:HB1	1.98	0.44
1:C:775:SER:CB	1:C:806:ALA:H	2.30	0.44
1:D:203:LEU:HD23	1:D:203:LEU:HA	1.83	0.44
1:D:705:VAL:CG1	1:D:706:PRO:N	2.80	0.44
1:A:559:CYS:CA	1:A:560:MET:N	2.80	0.44
1:A:808:ARG:HD2	1:A:813:LEU:O	2.17	0.44
1:A:890:ILE:HD13	1:A:908:TYR:CZ	2.53	0.44
1:D:1015:LEU:HD21	1:D:1039:ASP:HA	2.00	0.44
1:B:191:LYS:N	1:B:191:LYS:HD2	2.33	0.44
1:C:191:LYS:HD2	1:C:191:LYS:N	2.33	0.44
1:C:482:ILE:HG23	1:C:497:VAL:HG13	2.00	0.44
1:C:525:ASP:HA	1:C:526:PRO:HD3	1.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:534:HIS:HD2	1:C:644:LYS:NZ	2.15	0.44
1:C:890:ILE:CB	1:C:893:HIS:HD2	2.30	0.44
1:C:974:ILE:O	1:C:974:ILE:HG13	2.18	0.44
1:D:329:SER:HB3	1:D:332:GLU:HG3	1.98	0.44
1:A:760:VAL:CG1	1:A:761:GLN:N	2.81	0.44
1:A:944:LYS:O	1:A:944:LYS:HG3	2.18	0.44
1:B:162:VAL:CG2	1:B:189:ASP:HB2	2.48	0.44
1:B:705:VAL:H	1:B:724:ALA:HA	1.83	0.44
1:C:655:ASN:OD1	1:C:657:SER:CB	2.64	0.44
1:D:149:VAL:HG22	1:D:150:GLU:N	2.33	0.44
1:D:411:GLN:HA	1:D:412:PRO:C	2.38	0.44
1:D:890:ILE:HD13	1:D:908:TYR:CZ	2.53	0.44
1:A:463:PRO:HB2	1:B:612:ILE:HG22	2.00	0.43
1:B:459:ARG:HG3	1:B:526:PRO:CG	2.48	0.43
1:C:959:LEU:H	1:C:1033:LEU:HD21	1.83	0.43
1:D:313:ALA:HB1	1:D:335:LEU:HD11	2.00	0.43
1:D:533:LEU:CD2	1:D:639:SER:OG	2.65	0.43
1:D:959:LEU:H	1:D:1033:LEU:HD21	1.83	0.43
1:A:931:ARG:CG	1:A:942:MET:CE	2.96	0.43
1:C:775:SER:HB2	1:C:806:ALA:N	2.33	0.43
1:C:995:GLU:O	1:C:1006:CYS:HB2	2.18	0.43
1:C:1015:LEU:HD21	1:C:1039:ASP:HA	2.00	0.43
1:C:1015:LEU:CD2	1:C:1039:ASP:N	2.81	0.43
1:D:931:ARG:CG	1:D:942:MET:CE	2.96	0.43
1:A:57:ARG:HG2	1:A:121:TYR:CE1	2.53	0.43
1:C:313:ALA:HB1	1:C:335:LEU:HD11	2.00	0.43
1:C:947:GLN:HG3	1:C:948:GLN:N	2.34	0.43
1:D:1015:LEU:CD2	1:D:1039:ASP:N	2.81	0.43
1:A:313:ALA:HB1	1:A:335:LEU:HD11	2.00	0.43
1:B:533:LEU:HD21	1:B:646:PHE:CD2	2.47	0.43
1:D:482:ILE:HG23	1:D:497:VAL:HG13	2.00	0.43
1:B:735:ARG:HG3	1:B:786:ASN:HA	1.95	0.43
1:C:57:ARG:HG2	1:C:121:TYR:CE1	2.53	0.43
1:C:411:GLN:HA	1:C:412:PRO:C	2.38	0.43
1:C:890:ILE:HD13	1:C:908:TYR:CZ	2.53	0.43
1:C:944:LYS:HG3	1:C:944:LYS:O	2.18	0.43
1:B:741:LEU:HD12	1:B:767:TYR:CD1	2.54	0.43
1:B:802:TYR:CE1	1:B:821:PHE:CD1	3.05	0.43
1:C:56:HIS:HB3	1:C:59:THR:OG1	2.19	0.43
1:D:191:LYS:N	1:D:191:LYS:HD2	2.33	0.43
1:D:890:ILE:CB	1:D:893:HIS:HD2	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:411:GLN:HA	1:A:412:PRO:C	2.38	0.43
1:B:533:LEU:HD21	1:B:646:PHE:CE2	2.53	0.43
1:B:568:SER:CB	1:B:670:PHE:CE1	3.02	0.43
1:B:833:THR:CG2	1:B:837:HIS:CB	2.95	0.43
1:C:931:ARG:CG	1:C:942:MET:CE	2.96	0.43
1:C:996:PHE:HE1	1:C:1004:ILE:HG23	1.83	0.43
1:D:996:PHE:HE1	1:D:1004:ILE:HG23	1.83	0.43
1:A:149:VAL:HG22	1:A:150:GLU:N	2.33	0.43
1:A:191:LYS:HD2	1:A:191:LYS:N	2.33	0.43
1:B:411:GLN:HA	1:B:412:PRO:C	2.38	0.43
1:D:947:GLN:HG3	1:D:948:GLN:N	2.34	0.43
1:D:995:GLU:O	1:D:1006:CYS:HB2	2.18	0.43
1:A:324:GLN:HE22	1:B:576:ARG:HD2	1.84	0.43
1:A:741:LEU:HD12	1:A:767:TYR:CD1	2.54	0.43
1:B:57:ARG:HG2	1:B:121:TYR:CE1	2.54	0.43
1:B:784:VAL:CG1	1:B:785:TRP:N	2.82	0.43
1:C:539:ARG:HD2	1:C:542:LYS:HZ2	1.84	0.43
1:C:885:LEU:O	1:C:910:ILE:HD12	2.19	0.43
1:C:1011:SER:HB2	1:C:1037:TYR:CD1	2.54	0.43
1:D:57:ARG:HG2	1:D:121:TYR:CE1	2.54	0.43
1:D:775:SER:CA	1:D:807:GLN:HG3	2.42	0.43
1:A:908:TYR:CE1	1:A:914:ILE:HG12	2.54	0.43
1:B:690:PHE:CE2	1:B:731:GLN:CG	3.01	0.43
1:C:705:VAL:H	1:C:724:ALA:HA	1.82	0.43
1:C:741:LEU:HD12	1:C:767:TYR:CD1	2.54	0.43
1:C:908:TYR:CE1	1:C:914:ILE:HG12	2.54	0.43
1:C:987:VAL:HB	1:C:994:CYS:HB3	2.00	0.43
1:D:56:HIS:HB3	1:D:59:THR:OG1	2.19	0.43
1:D:533:LEU:HD23	1:D:533:LEU:HA	1.84	0.43
1:D:970:THR:HG22	1:D:1008:SER:CB	2.49	0.43
1:A:463:PRO:O	1:B:614:ILE:CG1	2.66	0.42
1:A:705:VAL:H	1:A:724:ALA:HA	1.83	0.42
1:A:947:GLN:HG3	1:A:948:GLN:N	2.34	0.42
1:D:741:LEU:HD12	1:D:767:TYR:CD1	2.54	0.42
1:D:1011:SER:HB2	1:D:1037:TYR:CD1	2.54	0.42
1:A:407:LEU:HD21	1:C:944:LYS:HD3	1.77	0.42
1:A:482:ILE:HG23	1:A:497:VAL:HG13	2.00	0.42
1:A:864:LEU:CG	1:A:865:THR:N	2.82	0.42
1:B:196:PRO:HG3	1:B:215:TYR:OH	2.20	0.42
1:C:677:TYR:CE1	1:C:731:GLN:CG	3.02	0.42
1:C:848:TRP:CG	1:C:848:TRP:O	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:946:HIS:CG	1:C:947:GLN:N	2.87	0.42
1:C:993:THR:CG2	1:C:994:CYS:N	2.82	0.42
1:D:944:LYS:O	1:D:944:LYS:HG3	2.18	0.42
1:D:987:VAL:HB	1:D:994:CYS:HB3	2.00	0.42
1:D:993:THR:CG2	1:D:994:CYS:N	2.82	0.42
1:A:37:GLN:OE1	1:A:37:GLN:HA	2.20	0.42
1:A:655:ASN:HA	1:A:656:CYS:N	2.33	0.42
1:A:784:VAL:CG1	1:A:785:TRP:N	2.82	0.42
1:A:885:LEU:O	1:A:910:ILE:HD12	2.19	0.42
1:B:149:VAL:HG22	1:B:150:GLU:N	2.33	0.42
1:C:192:GLN:HG3	1:C:228:ILE:O	2.20	0.42
1:C:970:THR:HG22	1:C:1008:SER:CB	2.49	0.42
1:D:881:VAL:CG1	1:D:882:ASN:N	2.82	0.42
1:D:896:VAL:HG21	1:D:918:MET:HE3	2.01	0.42
1:D:1001:MET:CG	1:D:1002:ASN:N	2.83	0.42
1:A:192:GLN:HG3	1:A:228:ILE:O	2.20	0.42
1:A:810:SER:OG	1:A:882:ASN:OD1	2.37	0.42
1:B:708:GLU:HG2	1:B:709:GLU:N	2.35	0.42
1:B:760:VAL:CG1	1:B:761:GLN:N	2.81	0.42
1:C:37:GLN:OE1	1:C:37:GLN:HA	2.20	0.42
1:C:735:ARG:HG3	1:C:786:ASN:HA	1.96	0.42
1:D:192:GLN:HG3	1:D:228:ILE:O	2.20	0.42
1:D:440:TYR:CD2	1:D:527:HIS:HA	2.55	0.42
1:D:482:ILE:HD12	1:D:497:VAL:HG11	2.02	0.42
1:D:706:PRO:CG	1:D:795:GLN:HG3	2.49	0.42
1:D:863:ILE:HG13	1:D:877:THR:C	2.40	0.42
1:D:885:LEU:O	1:D:910:ILE:HD12	2.19	0.42
1:A:56:HIS:HB3	1:A:59:THR:OG1	2.19	0.42
1:A:704:LEU:CD1	1:A:783:VAL:HG21	2.49	0.42
1:C:482:ILE:HD12	1:C:497:VAL:HG11	2.02	0.42
1:C:881:VAL:CG1	1:C:882:ASN:N	2.82	0.42
1:D:37:GLN:OE1	1:D:37:GLN:HA	2.20	0.42
1:D:151:PRO:HG2	1:D:213:LEU:HD12	2.02	0.42
1:D:470:TYR:CD1	1:D:525:ASP:HB2	2.55	0.42
1:A:810:SER:CB	1:A:882:ASN:CG	2.71	0.42
1:A:818:ASP:HB2	1:A:821:PHE:HD2	1.79	0.42
1:A:881:VAL:CG1	1:A:882:ASN:N	2.82	0.42
1:C:151:PRO:HG2	1:C:213:LEU:HD12	2.02	0.42
1:C:863:ILE:HG13	1:C:877:THR:C	2.40	0.42
1:C:988:TYR:OH	1:C:991:ASN:N	2.53	0.42
1:C:1001:MET:CG	1:C:1002:ASN:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1038:ILE:CG2	1:D:1039:ASP:N	2.82	0.42
1:A:324:GLN:NE2	1:B:576:ARG:NE	2.68	0.42
1:B:37:GLN:OE1	1:B:37:GLN:HA	2.20	0.42
1:B:56:HIS:HB3	1:B:59:THR:OG1	2.19	0.42
1:C:775:SER:H	1:C:807:GLN:HG3	1.85	0.42
1:C:872:GLY:O	1:C:1026:ARG:CB	2.63	0.42
1:D:708:GLU:HG2	1:D:709:GLU:N	2.35	0.42
1:D:908:TYR:CE1	1:D:914:ILE:HG12	2.54	0.42
1:A:708:GLU:HG2	1:A:709:GLU:N	2.35	0.42
1:A:815:LEU:N	1:A:815:LEU:CD1	2.83	0.42
1:C:655:ASN:O	1:C:656:CYS:C	2.54	0.42
1:C:708:GLU:HG2	1:C:709:GLU:N	2.35	0.42
1:C:883:LEU:HG	1:C:932:LEU:HD11	2.02	0.42
1:A:309:LEU:HD23	1:A:309:LEU:HA	1.89	0.42
1:B:151:PRO:HG2	1:B:213:LEU:HD12	2.01	0.42
1:B:508:VAL:HG11	1:B:539:ARG:HH22	1.85	0.42
1:B:549:ALA:C	1:B:586:PRO:HA	2.40	0.42
1:C:933:CYS:SG	1:C:942:MET:SD	3.18	0.42
1:C:1038:ILE:CG2	1:C:1039:ASP:N	2.82	0.42
1:D:815:LEU:N	1:D:815:LEU:CD1	2.83	0.42
1:D:933:CYS:SG	1:D:942:MET:SD	3.18	0.42
1:D:988:TYR:OH	1:D:991:ASN:N	2.53	0.42
1:A:149:VAL:HG22	1:A:151:PRO:HD3	2.02	0.42
1:A:204:PRO:HD2	1:A:212:MET:SD	2.60	0.42
1:A:848:TRP:O	1:A:848:TRP:CG	2.73	0.42
1:C:784:VAL:CG1	1:C:785:TRP:N	2.82	0.42
1:D:791:ILE:HG22	1:D:792:ASP:N	2.35	0.42
1:A:196:PRO:HG3	1:A:215:TYR:OH	2.19	0.41
1:B:57:ARG:HG3	1:B:58:ARG:HG3	2.02	0.41
1:B:313:ALA:HB1	1:B:335:LEU:HD11	2.00	0.41
1:C:938:LYS:CE	1:C:941:PHE:HE2	2.33	0.41
1:D:784:VAL:CG1	1:D:785:TRP:N	2.82	0.41
1:D:864:LEU:CG	1:D:865:THR:N	2.82	0.41
1:D:883:LEU:HG	1:D:932:LEU:HD11	2.02	0.41
1:A:655:ASN:OD1	1:A:657:SER:C	2.58	0.41
1:B:192:GLN:HG3	1:B:228:ILE:O	2.20	0.41
1:B:476:PHE:HE2	1:B:482:ILE:HD13	1.85	0.41
1:B:482:ILE:HD12	1:B:497:VAL:HG11	2.02	0.41
1:C:716:GLU:OE2	1:C:836:GLN:HG2	2.20	0.41
1:C:833:THR:HG21	1:C:837:HIS:HB2	1.99	0.41
1:D:149:VAL:HG22	1:D:151:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:863:ILE:O	1:D:863:ILE:HG23	2.20	0.41
1:D:946:HIS:CG	1:D:947:GLN:N	2.87	0.41
1:A:324:GLN:NE2	1:B:576:ARG:CD	2.84	0.41
1:A:482:ILE:HD12	1:A:497:VAL:HG11	2.02	0.41
1:A:737:TYR:HE1	1:A:754:ARG:CD	2.25	0.41
1:A:791:ILE:HG22	1:A:792:ASP:N	2.36	0.41
1:C:760:VAL:CG1	1:C:761:GLN:N	2.81	0.41
1:D:760:VAL:CG1	1:D:761:GLN:N	2.81	0.41
1:D:848:TRP:CG	1:D:848:TRP:O	2.73	0.41
1:D:931:ARG:HG2	1:D:942:MET:CE	2.50	0.41
1:A:629:ASP:OD1	1:A:659:HIS:CE1	2.72	0.41
1:A:931:ARG:HG2	1:A:942:MET:CE	2.50	0.41
1:C:204:PRO:HD2	1:C:212:MET:SD	2.60	0.41
1:C:843:SER:N	1:C:844:PRO:CD	2.84	0.41
1:C:863:ILE:O	1:C:863:ILE:HG23	2.20	0.41
1:C:1015:LEU:N	1:C:1015:LEU:CD1	2.83	0.41
1:D:815:LEU:O	1:D:848:TRP:CD1	2.74	0.41
1:A:815:LEU:HB3	1:A:885:LEU:CD1	2.46	0.41
1:A:883:LEU:HG	1:A:932:LEU:HD11	2.02	0.41
1:C:203:LEU:HD23	1:C:203:LEU:HA	1.83	0.41
1:C:417:THR:HA	1:C:418:PRO:HD3	1.74	0.41
1:C:560:MET:HE2	1:C:586:PRO:HD3	2.03	0.41
1:C:781:PHE:CD1	1:C:781:PHE:C	2.94	0.41
1:C:815:LEU:N	1:C:815:LEU:CD1	2.83	0.41
1:D:1015:LEU:N	1:D:1015:LEU:CD1	2.83	0.41
1:A:564:VAL:HG23	1:A:649:THR:HG21	2.03	0.41
1:A:781:PHE:CD1	1:A:781:PHE:C	2.94	0.41
1:A:863:ILE:HG13	1:A:877:THR:C	2.40	0.41
1:B:508:VAL:CG1	1:B:539:ARG:HH22	2.33	0.41
1:B:564:VAL:HG23	1:B:649:THR:HG21	2.03	0.41
1:B:815:LEU:O	1:B:848:TRP:CD1	2.74	0.41
1:C:476:PHE:HE2	1:C:482:ILE:HD13	1.85	0.41
1:C:1018:VAL:HG12	1:C:1019:PRO:N	2.35	0.41
1:D:204:PRO:HD2	1:D:212:MET:SD	2.60	0.41
1:D:570:SER:CB	1:D:683:HIS:CG	3.03	0.41
1:D:938:LYS:CE	1:D:941:PHE:HE2	2.34	0.41
1:A:815:LEU:O	1:A:848:TRP:CD1	2.74	0.41
1:A:946:HIS:CG	1:A:947:GLN:N	2.87	0.41
1:B:204:PRO:HD2	1:B:212:MET:SD	2.60	0.41
1:B:582:VAL:CG1	1:B:585:ALA:HB2	2.51	0.41
1:B:848:TRP:O	1:B:848:TRP:CG	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:ASN:ND2	1:C:87:PRO:HG3	2.36	0.41
1:C:564:VAL:HG23	1:C:649:THR:HG21	2.03	0.41
1:D:533:LEU:CD1	1:D:641:GLU:HB3	2.51	0.41
1:D:864:LEU:CG	1:D:865:THR:H	2.32	0.41
1:A:87:PRO:HB2	1:A:109:LEU:CD1	2.51	0.41
1:A:843:SER:N	1:A:844:PRO:CD	2.84	0.41
1:B:843:SER:N	1:B:844:PRO:CD	2.84	0.41
1:C:864:LEU:CG	1:C:865:THR:H	2.32	0.41
1:D:68:ASN:ND2	1:D:87:PRO:HG3	2.36	0.41
1:D:196:PRO:HG3	1:D:215:TYR:OH	2.19	0.41
1:D:843:SER:N	1:D:844:PRO:CD	2.84	0.41
1:A:68:ASN:ND2	1:A:87:PRO:HG3	2.36	0.41
1:A:463:PRO:CG	1:B:612:ILE:CB	2.68	0.41
1:A:532:ALA:O	1:A:646:PHE:HB2	2.20	0.41
1:A:714:VAL:CG1	1:A:768:GLN:HA	2.49	0.41
1:A:781:PHE:CE2	1:A:797:LEU:O	2.74	0.41
1:A:933:CYS:SG	1:A:942:MET:SD	3.18	0.41
1:B:404:PHE:CE2	1:B:406:GLY:HA2	2.56	0.41
1:C:149:VAL:HG22	1:C:151:PRO:HD3	2.03	0.41
1:C:196:PRO:HG3	1:C:215:TYR:OH	2.20	0.41
1:C:315:LEU:HD11	1:C:333:ASP:HB3	2.03	0.41
1:C:709:GLU:OE1	1:C:709:GLU:HA	2.21	0.41
1:C:791:ILE:HG22	1:C:792:ASP:N	2.36	0.41
1:D:404:PHE:CE2	1:D:406:GLY:HA2	2.56	0.41
1:D:476:PHE:HE2	1:D:482:ILE:HD13	1.85	0.41
1:D:533:LEU:HD11	1:D:641:GLU:HB3	2.03	0.41
1:D:709:GLU:O	1:D:711:LEU:HD12	2.21	0.41
1:D:781:PHE:CE2	1:D:797:LEU:O	2.74	0.41
1:D:1018:VAL:HG12	1:D:1019:PRO:N	2.35	0.41
1:A:57:ARG:HG3	1:A:58:ARG:HG3	2.02	0.41
1:A:582:VAL:CG1	1:A:585:ALA:HB2	2.51	0.41
1:A:709:GLU:O	1:A:711:LEU:HD12	2.21	0.41
1:A:883:LEU:HD13	1:A:911:ALA:O	2.21	0.41
1:B:68:ASN:ND2	1:B:87:PRO:HG3	2.36	0.41
1:B:781:PHE:CE2	1:B:797:LEU:O	2.74	0.41
1:C:815:LEU:O	1:C:848:TRP:CD1	2.74	0.41
1:C:931:ARG:HG2	1:C:942:MET:CE	2.50	0.41
1:D:309:LEU:HD23	1:D:309:LEU:HA	1.89	0.41
1:D:807:GLN:HE21	1:D:807:GLN:HB3	1.65	0.41
1:A:151:PRO:HG2	1:A:213:LEU:HD12	2.02	0.40
1:A:709:GLU:OE1	1:A:709:GLU:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:709:GLU:O	1:B:711:LEU:HD12	2.21	0.40
1:B:815:LEU:HD23	1:B:848:TRP:HB3	2.04	0.40
1:B:815:LEU:N	1:B:815:LEU:CD1	2.83	0.40
1:C:709:GLU:O	1:C:711:LEU:HD12	2.21	0.40
1:C:864:LEU:CG	1:C:865:THR:N	2.82	0.40
1:C:979:LEU:HD12	1:C:1002:ASN:C	2.41	0.40
1:D:539:ARG:HD2	1:D:542:LYS:HZ2	1.86	0.40
1:D:564:VAL:HG23	1:D:649:THR:HG21	2.03	0.40
1:D:582:VAL:CG1	1:D:585:ALA:HB2	2.51	0.40
1:D:619:LYS:HD3	1:D:619:LYS:HA	1.91	0.40
1:D:979:LEU:HD12	1:D:1002:ASN:C	2.41	0.40
1:A:404:PHE:CE2	1:A:406:GLY:HA2	2.56	0.40
1:A:407:LEU:HD22	1:C:944:LYS:CG	2.48	0.40
1:A:463:PRO:HD2	1:B:612:ILE:HG21	2.03	0.40
1:A:863:ILE:O	1:A:863:ILE:HG23	2.20	0.40
1:A:931:ARG:HG2	1:A:942:MET:HE1	2.03	0.40
1:B:257:THR:O	1:B:278:SER:HA	2.22	0.40
1:B:781:PHE:CD1	1:B:781:PHE:C	2.94	0.40
1:C:404:PHE:CE2	1:C:406:GLY:HA2	2.56	0.40
1:C:883:LEU:HD13	1:C:911:ALA:O	2.21	0.40
1:A:550:ASN:O	1:A:586:PRO:HG3	2.21	0.40
1:A:815:LEU:HD23	1:A:848:TRP:HB3	2.04	0.40
1:A:864:LEU:CG	1:A:865:THR:H	2.32	0.40
1:A:923:ILE:CG1	1:A:924:GLY:H	2.35	0.40
1:C:702:PRO:HB3	1:C:728:PRO:CG	2.52	0.40
1:C:781:PHE:CE2	1:C:797:LEU:O	2.74	0.40
1:C:952:VAL:HG23	1:C:954:PRO:HD3	2.03	0.40
1:D:315:LEU:HD11	1:D:333:ASP:HB3	2.03	0.40
1:A:931:ARG:CG	1:A:942:MET:HE1	2.52	0.40
1:B:149:VAL:HG22	1:B:151:PRO:HD3	2.02	0.40
1:D:57:ARG:HG3	1:D:58:ARG:HG3	2.02	0.40
1:D:87:PRO:HB2	1:D:109:LEU:CD1	2.51	0.40
1:D:781:PHE:CD1	1:D:781:PHE:C	2.94	0.40
1:D:993:THR:HG22	1:D:994:CYS:O	2.22	0.40
1:A:810:SER:HB3	1:A:882:ASN:HD21	1.83	0.40
1:C:349:PRO:HA	1:C:350:PRO:HD3	1.96	0.40
1:C:979:LEU:HB2	1:C:1000:SER:O	2.21	0.40
1:C:1013:ASN:HB3	1:C:1014:GLY:H	1.68	0.40
1:D:883:LEU:HD13	1:D:911:ALA:O	2.21	0.40

All (13) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:839:PRO:CB	1:B:768:GLN:OE1[5_665]	1.27	0.93
1:B:397:PRO:CG	1:D:947:GLN:OE1[2_564]	1.51	0.69
1:A:731:GLN:OE1	1:C:146:PHE:CD1[3_455]	1.56	0.64
1:B:407:LEU:CD2	1:D:944:LYS:CD[2_564]	1.79	0.41
1:A:731:GLN:NE2	1:C:146:PHE:CE1[3_455]	1.87	0.33
1:A:766:SER:OG	1:B:839:PRO:CA[5_665]	1.98	0.22
1:A:839:PRO:CG	1:B:768:GLN:OE1[5_665]	2.02	0.18
1:B:146:PHE:CE1	1:C:677:TYR:OH[4_565]	2.03	0.17
1:A:731:GLN:CD	1:C:146:PHE:CD1[3_455]	2.08	0.12
1:A:766:SER:OG	1:B:839:PRO:CB[5_665]	2.12	0.08
1:A:84:LYS:CB	1:D:732:SER:OG[5_555]	2.15	0.05
1:A:731:GLN:CD	1:C:146:PHE:CE1[3_455]	2.15	0.05
1:B:217:LEU:CD1	1:D:940:GLU:OE1[2_564]	2.16	0.04

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	896/1212 (74%)	861 (96%)	26 (3%)	9 (1%)	15 55
1	B	797/1212 (66%)	771 (97%)	19 (2%)	7 (1%)	17 57
1	C	981/1212 (81%)	937 (96%)	35 (4%)	9 (1%)	17 57
1	D	983/1212 (81%)	942 (96%)	31 (3%)	10 (1%)	15 55
All	All	3657/4848 (75%)	3511 (96%)	111 (3%)	35 (1%)	15 55

All (35) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	702	PRO
1	A	851	HIS
1	B	508	VAL
1	B	509	GLU
1	B	851	HIS

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Mol	Chain	Res	Type
1	C	804	CYS
1	C	851	HIS
1	D	804	CYS
1	D	851	HIS
1	A	703	GLN
1	A	160	SER
1	A	175	SER
1	A	805	ALA
1	B	160	SER
1	B	175	SER
1	B	805	ALA
1	C	160	SER
1	C	175	SER
1	C	805	ALA
1	D	160	SER
1	D	175	SER
1	D	805	ALA
1	A	849	SER
1	B	849	SER
1	C	849	SER
1	D	559	CYS
1	D	849	SER
1	A	935	GLY
1	C	935	GLY
1	C	952	VAL
1	D	935	GLY
1	D	952	VAL
1	A	922	VAL
1	C	922	VAL
1	D	922	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	796/1064 (75%)	787 (99%)	9 (1%)	73 84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	714/1064 (67%)	706 (99%)	8 (1%)	73	84
1	C	870/1064 (82%)	860 (99%)	10 (1%)	73	84
1	D	870/1064 (82%)	860 (99%)	10 (1%)	73	84
All	All	3250/4256 (76%)	3213 (99%)	37 (1%)	73	84

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	237	SER
1	A	238	HIS
1	A	274	LEU
1	A	298	PHE
1	A	438	TYR
1	A	509	GLU
1	A	626	LEU
1	A	811	CYS
1	A	893	HIS
1	B	237	SER
1	B	238	HIS
1	B	274	LEU
1	B	298	PHE
1	B	438	TYR
1	B	509	GLU
1	B	626	LEU
1	B	811	CYS
1	C	237	SER
1	C	238	HIS
1	C	274	LEU
1	C	298	PHE
1	C	438	TYR
1	C	509	GLU
1	C	626	LEU
1	C	811	CYS
1	C	893	HIS
1	C	953	ASN
1	D	237	SER
1	D	238	HIS
1	D	274	LEU
1	D	298	PHE
1	D	438	TYR
1	D	509	GLU

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Mol	Chain	Res	Type
1	D	626	LEU
1	D	811	CYS
1	D	893	HIS
1	D	953	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (26) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	324	GLN
1	A	726	ASN
1	A	731	GLN
1	A	761	GLN
1	A	837	HIS
1	B	513	GLN
1	B	534	HIS
1	B	703	GLN
1	B	761	GLN
1	B	837	HIS
1	C	534	HIS
1	C	726	ASN
1	C	761	GLN
1	C	807	GLN
1	C	837	HIS
1	C	953	ASN
1	C	1034	GLN
1	D	513	GLN
1	D	534	HIS
1	D	550	ASN
1	D	726	ASN
1	D	761	GLN
1	D	807	GLN
1	D	837	HIS
1	D	953	ASN
1	D	1034	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	C	6
1	B	6
1	A	6
1	D	5

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	855:CYS	C	856:SER	N	5.61
1	C	702:PRO	C	703:GLN	N	3.75
1	D	702:PRO	C	703:GLN	N	3.35
1	C	559:CYS	C	560:MET	N	2.82
1	C	855:CYS	C	856:SER	N	2.48
1	B	559:CYS	C	560:MET	N	2.40
1	B	701:CYS	C	702:PRO	N	2.35
1	B	803:LYS	C	804:CYS	N	2.12
1	A	559:CYS	C	560:MET	N	2.11
1	A	655:ASN	C	656:CYS	N	2.03
1	B	702:PRO	C	703:GLN	N	1.94
1	A	702:PRO	C	703:GLN	N	1.89
1	B	655:ASN	C	656:CYS	N	1.71

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	952:VAL	C	953:ASN	N	1.66
1	C	701:CYS	C	702:PRO	N	1.60
1	C	803:LYS	C	804:CYS	N	1.20
1	A	701:CYS	C	702:PRO	N	1.19
1	A	803:LYS	C	804:CYS	N	1.18
1	C	508:VAL	C	509:GLU	N	1.07
1	B	508:VAL	C	509:GLU	N	0.99
1	D	508:VAL	C	509:GLU	N	0.98
1	D	655:ASN	C	656:CYS	N	0.96
1	A	508:VAL	C	509:GLU	N	0.78

6 Fit of model and data

6.1 Protein, DNA and RNA chains

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

6.3 Carbohydrates

Unable to reproduce the depositors R factor - this section is therefore empty.

6.4 Ligands

Unable to reproduce the depositors R factor - this section is therefore empty.

6.5 Other polymers

Unable to reproduce the depositors R factor - this section is therefore empty.