



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 1, 2023 – 09:16 AM EDT

PDB ID : 3KM9
Title : Structure of complement C5 in complex with the C-terminal beta-grasp domain of SSL7
Authors : Laursen, N.S.; Gordon, N.; Hermans, S.; Lorenz, N.; Jackson, N.; Wines, B.; Spillner, E.; Christensen, J.B.; Jensen, M.; Fredslund, F.; Bjerre, M.; Sottrup-Jensen, L.; Fraser, J.D.; Andersen, G.R.
Deposited on : 2009-11-10
Resolution : 4.20 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

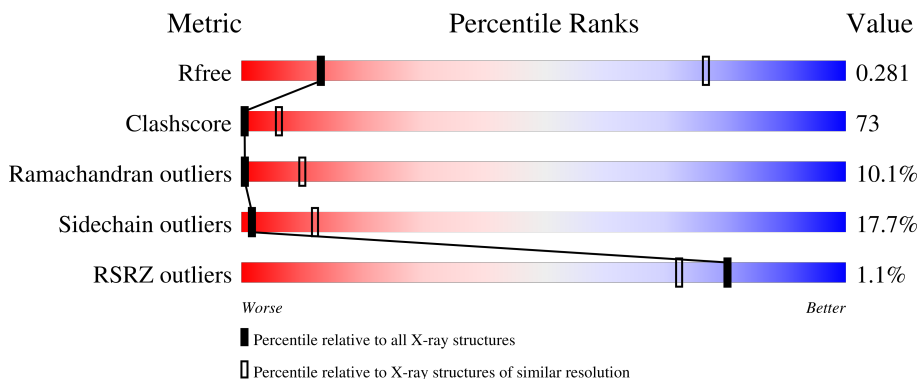
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.20 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 (4.62-3.78)
Clashscore	141614	1044 (4.60-3.80)
Ramachandran outliers	138981	1000 (4.60-3.80)
Sidechain outliers	138945	1007 (4.62-3.78)
RSRZ outliers	127900	1063 (4.70-3.70)

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

Mol	Chain	Length	Quality of chain
1	A	1676	
1	B	1676	
2	X	103	
2	Y	103	

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Mol	Chain	Length	Quality of chain	
3	C	2		
3	D	2		

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NAG	C	2	-	-	-	X
3	NAG	D	2	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 24809 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 Complement C5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1459	11541	7396	1903	2200	42	0	0	0
1	B	1459	11541	7396	1903	2200	42	0	0	0

- Molecule 2 is a protein called Staphylococcal enterotoxin-like toxin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	X	102	819	517	138	163	1	0	0	0
2	Y	102	819	517	138	163	1	0	0	0

- Molecule 3 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	C	2	28	16	2	10	0	0	0
3	D	2	28	16	2	10	0	0	0

- Molecule 4 is CADMIUM ION (three-letter code: CD) (formula: Cd).

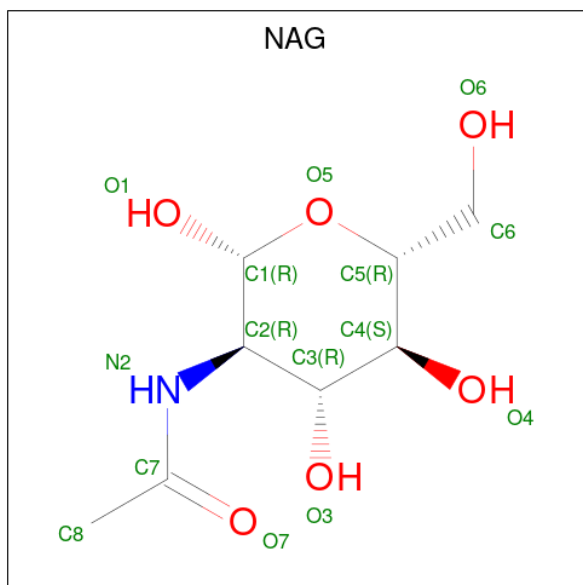
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	3	Total	Cd	0	0
			3	3		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	2	Total Cd 2 2	0	0

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).

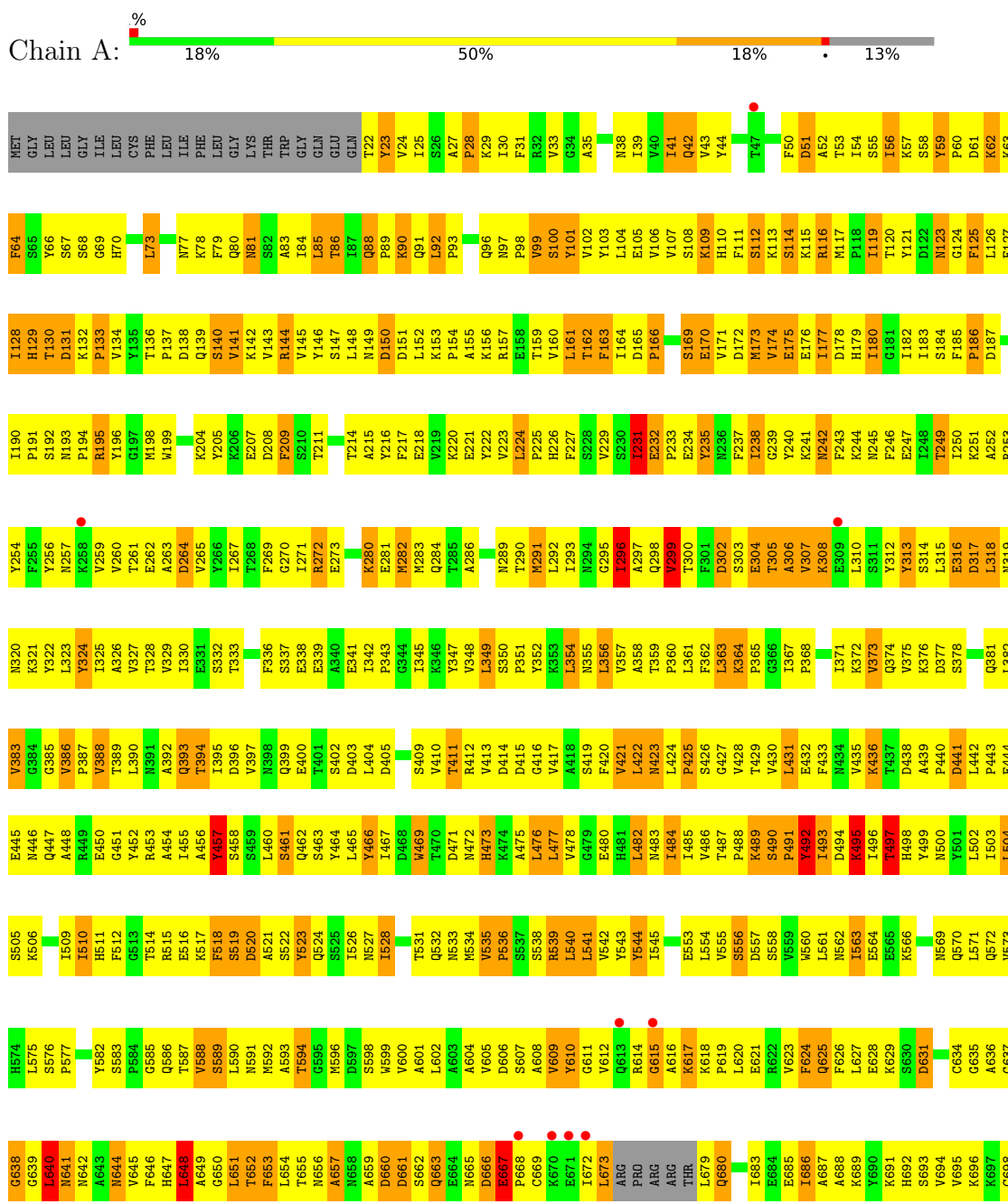


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
5	A	1	14	8	1	5	0	0
5	B	1	14	8	1	5	0	0

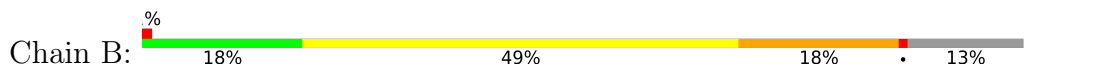
3 Residue-property plots

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

● Molecule 1: Complement C5



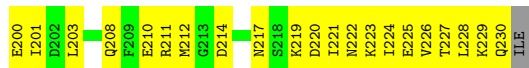
• Molecule 1: Complement C5



ME1	F127	K189	F265	K321	G384	E445	K506	Q570	A636	K696	P759	D822
GLY	I128	I190	Y256	Y322	G385	N446	G507	L571	G637	K697	V760	V823
LEU	H129	S192	K257	L323	V386	A447	K508	A572	G638	C698	S761	F824
LEU	T130	S192	K258	Y324	P387	Q448	L509	Q573	G639	C699	K762	L825
GLY	D131	M193	V259	I325	V388	R449	I510	H574	L640	D700	E763	E826
ILE	K132	P193	V260	A326	T369	E450	H511	L575	N641	Y701	E764	M827
LEU	P133	R195	V261	V327	L390	C451	F512	S576	N642	G702	I765	N828
CYS	V134	R195	E262	V328	N391	G452	G513	P577	A643	A703	R766	N829
PHE	Y135	M198	A263	V329	A392	R453	F514	Y582	N644	C704	C704	P830
LEU	T136	W199	D264	I330	Q393	A454	R515	Y583	F645	V705	V705	Y831
ILE	P137	W199	V265	E331	T394	I455	E516	S583	F646	W706	W706	S832
PHE	D138	Y205	Y266	S332	I395	A456	K517	P584	H647	N707	N707	V833
LEU	Q139	K206	L267	S333	D396	Y457	F518	G585	L648	D708	L648	V834
GLY	S140	E207	T268	T333	V397	S458	S519	Q586	A649	E709	E709	R835
LYS	V141	D208	F269	F336	N398	S459	D520	T587	G650	I710	G836	P836
THR	K142	F209	G270	E337	Q399	L460	A521	V588	L773	C711	C711	G837
TRP	K144	S210	I271	E338	Q399	L461	S522	S589	T652	W712	W712	Q838
GLY	R144	T211	R272	E339	E400	S461	S523	S590	G653	Q713	Q713	I839
GLN	V145	T212	E273	A340	T401	Q462	L590	N591	L654	R714	R714	Q840
GLU	L148	G213	G213	E341	S402	Y463	G524	N591	L655	A715	A715	L841
GLN	N149	R214	R214	I342	D403	L464	S525	H592	T655	N656	N656	L841
Y23	D150	E215	E215	G344	L404	L465	I526	T594	N657	A716	A716	T844
V24	D151	Y216	Y216	G344	D405	L466	N527	T594	N658	R717	R717	V845
L25	D152	F217	F217	G344	P406	L467	I528	Q595	N658	I718	I718	Y846
S26	L152	F217	F217	K346	D468	L468	P529	N596	A659	S719	S719	N847
A27	K153	E218	E218	K346	W469	L469	V530	N597	D660	L720	L720	Y848
P28	K154	Q219	Q219	Y347	V410	N472	T531	S598	D661	G721	G721	R849
K29	K155	K220	K220	V348	V411	N473	Q532	M599	S662	P722	P722	R849
I30	K156	L221	L221	L349	R412	H473	M533	V600	Q663	L786	L786	M853
F31	E158	P222	P222	S350	V413	K474	M534	A601	E664	A601	A601	M854
R32	E159	Y223	Y223	P351	D414	A475	V535	L602	E665	F786	F786	M855
V33	V160	L224	L224	M291	D415	L476	P536	A603	D666	A727	A727	F855
S100	S100	P225	P225	K353	G416	L477	S537	A604	E667	F728	F728	C856
A35	Y101	Q226	Q226	L354	V417	V478	S538	V605	R668	I729	I729	C857
S36	V102	H226	H226	N355	A418	G479	R539	D606	C669	E730	E730	M858
E37	F103	F227	F227	L356	S419	E480	L540	S607	K670	C731	C731	M859
N38	L104	V229	V229	V357	F420	H481	L541	A608	E671	L794	L794	M859
I39	D165	S230	S230	A358	V421	L482	V542	V609	L672	W733	W733	V862
V40	E105	L331	L331	T359	L422	M483	Y543	V610	L673	W734	W734	E863
I41	V106	E232	E232	P360	M423	I484	F544	G611	ARG	A735	A735	C866
Q42	S108	P233	P233	L361	L424	I485	L545	G612	PHO	S736	S736	T867
V43	E170	E234	E234	F362	P425	V486	V546	R613	ARG	Q737	Q737	T867
Y44	S109	Y235	Y235	K364	S426	T487	T547	R614	ARG	L738	L738	T867
T47	D172	E304	E304	P365	G427	P488	G548	G615	THR	R739	R739	S870
F50	H110	E304	E304	G366	T428	K489	K489	A616	L679	G802	G802	P870
D51	F111	G239	G239	E368	T429	S490	E553	K617	Q680	I803	I803	VAL
A52	M117	G240	G240	I367	V430	P491	L554	R618	K681	S804	S804	ILE
T53	E175	K241	K241	P368	L431	Y492	V555	P619	K682	S805	S805	ILE
S53	I177	N242	N242	Y369	E432	I493	S556	L620	I683	I809	I809	ASP
I54	D178	K244	K244	P370	F433	D494	D557	E621	E684	L810	L810	HIS
I54	M117	N245	N245	I371	M434	K495	S558	R622	E685	GLN	GLN	ASP
I119	I180	G246	G246	K372	V435	L496	W559	V623	I686	MET	MET	GLY
I119	G181	E247	E247	V373	K486	T497	V560	F624	A687	GLN	GLN	THR
T120	I182	I248	I248	Q374	H498	H498	L561	Q625	A688	LEU	LEU	THR
Y121	I183	T249	T249	V375	T437	H498	L561	Q625	A688	L750	L750	LYS
S58	S184	I250	I250	K376	D438	Y499	N562	F626	K689	G751	G751	SER
M123	F185	D122	D122	D377	A440	Y501	I563	L627	K690	R752	R752	SER
P60	P186	S184	S184	S378	P440	Y501	E564	E628	V690	H753	H753	SER
D61	R252	K251	K251	L379	D441	L502	E565	K629	K691	W754	W754	THR
F188	F188	R252	R252	L319	L442	L503	K566	C634	I687	K755	K755	THR
F188	F188	R252	R252	N320	E444	S505	M569	Q635	V695	L758	L758	THR



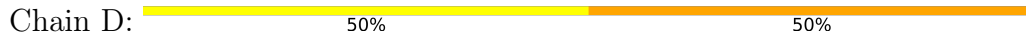
- Molecule 2: Staphylococcal enterotoxin-like toxin



- Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 3: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	P 31	Depositor
Cell constants a, b, c, α , β , γ	144.79Å 144.79Å 245.28Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.75 – 4.20 49.75 – 4.20	Depositor EDS
% Data completeness (in resolution range)	99.6 (49.75-4.20) 99.8 (49.75-4.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.76 (at 4.14Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.5_2)	Depositor
R, R_{free}	0.233 , 0.297 0.215 , 0.281	Depositor DCC
R_{free} test set	2039 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	115.5	Xtrriage
Anisotropy	0.855	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.19 , 90.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtrriage
Estimated twinning fraction	0.044 for -h,-k,l 0.397 for h,-h-k,-l 0.045 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	24809	wwPDB-VP
Average B, all atoms (Å ²)	205.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.16% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, CD

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	0.53	0/11793	0.77	6/16003 (0.0%)
1	B	0.53	0/11793	0.77	5/16003 (0.0%)
2	X	0.34	0/828	0.54	0/1107
2	Y	0.34	0/828	0.56	1/1107 (0.1%)
All	All	0.52	0/25242	0.75	12/34220 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	2
All	All	0	3

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	264	ASP	CB-CG-OD1	-8.57	110.58	118.30
1	B	640	LEU	CA-CB-CG	7.23	131.94	115.30
1	B	1374	VAL	CB-CA-C	-6.61	98.85	111.40
1	A	640	LEU	CA-CB-CG	6.51	130.28	115.30
1	A	1195	LEU	CA-CB-CG	-5.71	102.17	115.30
1	A	1374	VAL	CB-CA-C	-5.46	101.02	111.40
1	A	1482	LEU	CA-CB-CG	5.38	127.67	115.30
2	Y	175	LYS	CD-CE-NZ	5.25	123.78	111.70
1	B	323	LEU	CA-CB-CG	5.23	127.34	115.30
1	B	1033	ILE	CB-CA-C	-5.14	101.31	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1297	LEU	CA-CB-CG	-5.03	103.74	115.30
1	A	471	ASP	CB-CG-OD1	5.01	122.81	118.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	651	LEU	Peptide
1	B	1179	THR	Peptide
1	B	651	LEU	Peptide

5.2 Too-close contacts [i](#)

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	11541	0	11511	1721	0
1	B	11541	0	11511	1730	0
2	X	819	0	831	85	0
2	Y	819	0	831	83	0
3	C	28	0	25	2	0
3	D	28	0	25	3	0
4	A	3	0	0	0	0
4	B	2	0	0	0	0
5	A	14	0	13	0	0
5	B	14	0	13	0	0
All	All	24809	0	24760	3610	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 73.

All (3610) 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:535:VAL:HG23	1:A:536:PRO:HD3	1.21	1.17
1:A:698:CYS:SG	1:A:724:CYS:CB	2.33	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:698:CYS:SG	1:A:724:CYS:HB2	1.86	1.15
1:A:968:VAL:HG12	1:A:1368:THR:HG22	1.19	1.13
1:A:609:VAL:HG23	1:A:610:TYR:H	1.00	1.12
1:B:535:VAL:HG23	1:B:536:PRO:HD3	1.29	1.13
1:B:609:VAL:HG23	1:B:610:TYR:H	1.07	1.12
1:B:968:VAL:HG12	1:B:1368:THR:HG22	1.19	1.12
1:B:440:PRO:HD2	1:B:441:ASP:OD2	1.51	1.10
1:A:855:PHE:CZ	1:A:886:GLN:HB3	1.86	1.09
1:B:66:TYR:HD1	1:B:90:LYS:HE3	1.13	1.09
1:B:855:PHE:CZ	1:B:886:GLN:HB3	1.87	1.09
1:A:994:GLN:HE22	1:A:998:ASN:HB3	1.16	1.08
1:A:195:ARG:HD2	1:A:1058:SER:HA	1.35	1.07
1:A:1068:VAL:HG13	1:A:1069:TRP:H	1.15	1.07
1:A:617:LYS:O	1:A:618:LYS:HG2	1.55	1.07
1:A:66:TYR:HD1	1:A:90:LYS:HE3	1.14	1.06
1:B:940:SER:HB2	1:B:959:PHE:HD1	1.18	1.06
1:B:66:TYR:HE1	1:B:90:LYS:HG3	1.21	1.03
1:B:617:LYS:O	1:B:618:LYS:HG2	1.58	1.03
1:B:1068:VAL:HG13	1:B:1069:TRP:H	1.20	1.03
1:B:120:THR:HG22	1:B:121:TYR:H	1.18	1.02
1:B:38:ASN:O	1:B:39:ILE:HD13	1.60	1.01
1:B:195:ARG:HD2	1:B:1058:SER:HA	1.41	1.01
1:B:653:PHE:CZ	1:B:660:ASP:HA	1.95	1.01
1:B:133:PRO:O	1:B:134:VAL:HG23	1.58	1.01
1:A:984:VAL:HG11	1:A:1024:TYR:CE1	1.96	1.01
1:A:1381:ILE:HG13	1:A:1404:ALA:HB2	1.42	1.01
1:A:386:VAL:HG23	1:A:411:THR:HG21	1.36	1.01
2:X:136:LEU:HB3	2:X:224:ILE:HB	1.43	1.01
1:B:541:LEU:HB2	1:B:558:SER:HB3	1.41	1.01
1:A:120:THR:HG22	1:A:121:TYR:H	1.21	1.00
1:A:59:TYR:HB3	1:A:60:PRO:HD3	1.39	1.00
1:B:1255:LEU:HD21	1:B:1271:ILE:HG22	1.43	1.00
1:A:1435:ASN:HB3	1:A:1438:ASP:HB2	1.40	1.00
1:B:940:SER:HB2	1:B:959:PHE:CD1	1.95	1.00
1:A:386:VAL:H	1:A:411:THR:CG2	1.75	0.99
1:A:698:CYS:HB3	1:A:724:CYS:SG	2.01	0.99
1:B:804:ILE:HG22	1:B:809:ILE:HA	1.41	0.99
1:B:936:ARG:HB2	1:B:1364:VAL:HG22	1.44	0.99
1:A:609:VAL:HG23	1:A:610:TYR:N	1.78	0.99
1:B:840:GLN:HG2	1:B:899:THR:HG22	1.43	0.98
1:A:440:PRO:HD2	1:A:441:ASP:OD2	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:PHE:CZ	1:B:316:GLU:HG2	1.98	0.98
1:A:253:ARG:HH21	1:A:257:ASN:HA	1.29	0.98
1:B:922:ILE:HD12	3:D:1:NAG:H82	1.44	0.98
1:B:59:TYR:HB3	1:B:60:PRO:HD3	1.43	0.97
1:B:982:LEU:HD23	1:B:1309:LEU:HD11	1.45	0.97
1:A:973:ILE:HG23	1:A:1365:VAL:HG23	1.46	0.97
1:A:698:CYS:CB	1:A:724:CYS:SG	2.52	0.97
1:B:973:ILE:HG23	1:B:1365:VAL:HG23	1.44	0.97
1:A:1279:ARG:HD3	1:A:1284:PHE:CG	1.99	0.97
1:A:115:LYS:HG2	1:A:117:MET:HE3	1.47	0.96
1:B:618:LYS:CB	1:B:621:GLU:HB3	1.94	0.96
1:A:922:ILE:HD12	3:C:1:NAG:H82	1.46	0.96
1:B:994:GLN:HE22	1:B:998:ASN:HB3	1.30	0.96
1:A:618:LYS:HG3	1:A:621:GLU:CD	1.86	0.96
1:A:1244:THR:HG22	1:A:1246:ARG:H	1.31	0.95
1:B:66:TYR:CD1	1:B:90:LYS:HE3	2.00	0.95
1:B:96:GLN:O	1:B:98:PRO:HD3	1.65	0.95
1:A:133:PRO:O	1:A:134:VAL:HG23	1.66	0.95
1:A:44:TYR:HE1	1:A:497:THR:HG1	1.00	0.94
1:A:618:LYS:CB	1:A:621:GLU:HB3	1.98	0.94
1:B:635:GLY:HA2	1:B:672:ILE:HG23	1.49	0.94
1:A:984:VAL:HG11	1:A:1024:TYR:HE1	1.30	0.94
1:A:66:TYR:CD1	1:A:90:LYS:HE3	2.02	0.94
1:A:156:LYS:O	1:A:157:ARG:HG3	1.67	0.94
1:A:940:SER:HB2	1:A:959:PHE:CD1	2.03	0.94
1:A:940:SER:HB2	1:A:959:PHE:HD1	1.33	0.94
1:A:38:ASN:O	1:A:39:ILE:HD13	1.67	0.93
1:A:1255:LEU:HD22	1:A:1270:VAL:HG12	1.50	0.93
1:B:1381:ILE:HG13	1:B:1404:ALA:HB2	1.47	0.93
1:A:609:VAL:CG2	1:A:610:TYR:H	1.82	0.93
1:B:618:LYS:HG3	1:B:621:GLU:CD	1.89	0.93
1:B:115:LYS:HG2	1:B:117:MET:HE3	1.49	0.93
1:B:1244:THR:HG22	1:B:1246:ARG:H	1.34	0.93
1:B:1202:HIS:HD2	1:B:1204:GLN:H	1.14	0.93
1:A:96:GLN:O	1:A:98:PRO:HD3	1.69	0.93
1:A:1434:ALA:HA	1:A:1479:ILE:HG22	1.49	0.93
2:Y:136:LEU:HB3	2:Y:224:ILE:HB	1.50	0.93
1:A:940:SER:OG	1:A:1361:VAL:HG12	1.67	0.93
1:B:319:ASN:ND2	1:B:347:TYR:CD1	2.36	0.92
1:B:386:VAL:HG23	1:B:411:THR:HG21	1.50	0.92
1:B:1348:VAL:HG11	1:B:1359:VAL:HG21	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:ARG:HH21	1:B:257:ASN:HA	1.31	0.92
1:B:1206:ARG:HG3	1:B:1206:ARG:HH11	1.31	0.92
2:Y:140:LYS:HG2	2:Y:228:LEU:HD12	1.50	0.92
1:B:679:LEU:HD13	1:B:742:ILE:HG12	1.50	0.92
1:B:956:ARG:HG3	1:B:1349:SER:HB3	1.50	0.92
1:B:1180:LEU:HD21	1:B:1208:ILE:HA	1.49	0.92
1:B:120:THR:CG2	1:B:121:TYR:H	1.82	0.92
1:A:1118:PHE:O	1:A:1144:LEU:HD23	1.69	0.92
1:A:653:PHE:CZ	1:A:660:ASP:HA	2.05	0.91
1:B:66:TYR:CE1	1:B:90:LYS:HG3	2.05	0.91
1:B:835:ARG:HG2	1:B:835:ARG:HH11	1.34	0.91
1:A:986:GLU:HA	1:A:986:GLU:OE2	1.66	0.91
1:A:1090:ASN:HD22	1:A:1158:ILE:HD13	1.35	0.91
1:B:359:THR:HG21	1:B:372:LYS:H	1.34	0.91
1:B:163:PHE:HD1	1:B:163:PHE:H	1.19	0.91
1:B:1162:VAL:HG23	1:B:1163:LYS:H	1.35	0.91
1:B:1217:LEU:O	1:B:1218:VAL:HG13	1.70	0.90
1:B:1251:THR:HG1	1:B:1273:TRP:HZ3	0.94	0.90
1:B:823:VAL:HG22	1:B:847:ASN:HA	1.54	0.90
1:B:1438:ASP:OD2	1:B:1478:ARG:HG3	1.72	0.90
1:B:571:LEU:HD12	1:B:572:GLN:N	1.85	0.90
1:A:1279:ARG:HD3	1:A:1284:PHE:CD2	2.07	0.89
1:B:156:LYS:O	1:B:157:ARG:HG3	1.71	0.89
1:A:1438:ASP:OD2	1:A:1478:ARG:HG3	1.72	0.89
1:B:973:ILE:HG23	1:B:1365:VAL:CG2	2.01	0.89
1:A:66:TYR:HE1	1:A:90:LYS:HG3	1.35	0.89
1:A:1180:LEU:HD21	1:A:1208:ILE:HA	1.52	0.89
1:B:386:VAL:H	1:B:411:THR:CG2	1.85	0.89
1:A:644:ASN:HD21	1:A:648:LEU:HD12	1.37	0.89
1:A:804:ILE:HG22	1:A:809:ILE:HA	1.54	0.89
1:B:1090:ASN:HD22	1:B:1158:ILE:HD13	1.35	0.89
1:B:1149:VAL:HA	1:B:1152:ILE:HD12	1.55	0.89
1:A:412:ARG:HB3	1:A:415:ASP:HB3	1.53	0.89
1:A:635:GLY:HA2	1:A:672:ILE:HG23	1.55	0.89
1:B:319:ASN:O	1:B:320:ASN:ND2	2.06	0.89
1:B:386:VAL:HG12	1:B:387:PRO:HD2	1.55	0.89
1:A:968:VAL:HG12	1:A:1368:THR:CG2	2.03	0.88
1:B:412:ARG:HD2	1:B:415:ASP:HB2	1.55	0.88
1:B:528:ILE:H	1:B:528:ILE:HD12	1.37	0.88
1:B:59:TYR:CB	1:B:60:PRO:HD3	2.03	0.88
1:A:120:THR:CG2	1:A:121:TYR:H	1.85	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:371:ILE:HD11	1:A:422:LEU:HD11	1.55	0.88
1:A:679:LEU:HD13	1:A:742:ILE:HG12	1.53	0.88
1:A:59:TYR:CB	1:A:60:PRO:HD3	2.01	0.88
1:B:157:ARG:H	1:B:178:ASP:HB3	1.38	0.88
1:B:249:THR:HG23	1:B:298:GLN:HE21	1.38	0.88
1:A:243:PHE:CZ	1:A:316:GLU:HG2	2.07	0.88
1:B:984:VAL:HG11	1:B:1024:TYR:CE1	2.08	0.88
1:A:1206:ARG:HH11	1:A:1206:ARG:HG3	1.38	0.88
1:A:956:ARG:HG3	1:A:1349:SER:HB3	1.55	0.87
1:A:441:ASP:HA	1:B:443:PRO:HB3	1.55	0.87
2:X:140:LYS:HG2	2:X:228:LEU:HD12	1.55	0.87
1:A:412:ARG:HD2	1:A:415:ASP:HB2	1.54	0.87
1:B:569:ASN:OD1	1:B:596:MET:HB2	1.74	0.87
1:B:120:THR:HG22	1:B:121:TYR:N	1.89	0.87
1:B:609:VAL:HG23	1:B:610:TYR:N	1.89	0.87
1:B:855:PHE:CE1	1:B:886:GLN:HB3	2.08	0.87
1:B:242:ASN:HB3	1:B:245:ASN:O	1.74	0.87
1:B:944:LEU:HB2	1:B:1357:ALA:HB3	1.54	0.87
1:B:1193:TYR:O	1:B:1196:SER:HB3	1.73	0.87
1:B:231:ILE:HG12	1:B:342:ILE:HD11	1.55	0.87
1:A:386:VAL:H	1:A:411:THR:HG23	1.39	0.86
1:A:242:ASN:HB3	1:A:245:ASN:O	1.75	0.86
1:A:1244:THR:HB	1:A:1247:MET:HB2	1.55	0.86
1:B:1318:LYS:HG2	1:B:1319:HIS:CE1	2.10	0.86
1:A:443:PRO:HB3	1:B:441:ASP:HA	1.55	0.86
1:A:936:ARG:HB3	1:A:1364:VAL:HG22	1.55	0.86
1:A:1180:LEU:HD12	1:A:1204:GLN:NE2	1.90	0.86
2:X:146:LEU:HD22	2:X:147:ASP:N	1.89	0.86
1:B:1193:TYR:CE1	1:B:1256:LEU:HB3	2.10	0.86
1:B:412:ARG:HB3	1:B:415:ASP:HB3	1.57	0.86
1:A:365:PRO:HD2	1:A:464:TYR:CD2	2.10	0.86
1:A:1255:LEU:HD21	1:A:1271:ILE:HG22	1.58	0.86
1:B:1193:TYR:HA	1:B:1257:THR:HG23	1.57	0.86
1:A:1090:ASN:HD21	1:A:1158:ILE:HG21	1.38	0.85
1:B:576:SER:OG	1:B:589:SER:HB2	1.76	0.85
1:A:577:PRO:HD2	1:A:588:VAL:HG23	1.58	0.85
1:A:976:ILE:HD12	1:A:1362:THR:HG23	1.59	0.85
1:B:984:VAL:HG11	1:B:1024:TYR:HE1	1.39	0.85
1:A:1348:VAL:HG11	1:A:1359:VAL:HG21	1.57	0.85
1:A:560:TRP:CZ3	1:A:562:ASN:HB2	2.12	0.85
1:B:602:LEU:HD12	1:B:774:LEU:HD22	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:936:ARG:CB	1:A:1364:VAL:HG22	2.07	0.85
1:A:1193:TYR:HA	1:A:1257:THR:HG23	1.59	0.85
1:B:1209:VAL:O	1:B:1213:LYS:HB2	1.76	0.84
1:A:571:LEU:HD12	1:A:572:GLN:N	1.92	0.84
1:B:1304:VAL:HG12	1:B:1305:LYS:N	1.92	0.84
1:B:1381:ILE:HD13	1:B:1509:TYR:CD1	2.12	0.84
1:A:618:LYS:HG3	1:A:621:GLU:OE1	1.77	0.84
1:A:841:LEU:HD12	1:A:859:MET:HE1	1.59	0.84
1:B:617:LYS:HE3	1:B:625:GLN:HE22	1.43	0.84
1:B:733:VAL:O	1:B:737:GLN:HG2	1.76	0.84
1:B:1304:VAL:HG12	1:B:1305:LYS:H	1.38	0.84
1:B:1118:PHE:O	1:B:1144:LEU:HD23	1.76	0.84
1:B:1435:ASN:HB3	1:B:1438:ASP:HB2	1.58	0.84
1:A:639:GLY:H	1:A:645:VAL:HG22	1.41	0.84
1:B:940:SER:OG	1:B:1361:VAL:HG12	1.77	0.84
1:A:1283:GLY:HA3	1:A:1290:THR:HG23	1.59	0.84
1:B:242:ASN:H	1:B:242:ASN:HD22	1.22	0.84
1:A:1255:LEU:HB2	1:A:1270:VAL:HG11	1.58	0.83
1:B:367:ILE:HD13	1:B:466:TYR:HD2	1.43	0.83
1:B:497:THR:HG23	1:B:498:HIS:H	1.42	0.83
1:B:618:LYS:HB2	1:B:621:GLU:HB3	1.59	0.83
1:B:835:ARG:NH2	1:B:905:ILE:HD11	1.93	0.83
1:B:1132:THR:HB	1:B:1134:PRO:HD2	1.59	0.83
1:B:968:VAL:CG1	1:B:1368:THR:HG22	2.07	0.83
1:B:1255:LEU:CD2	1:B:1271:ILE:HG22	2.07	0.83
1:A:1323:LEU:HD12	1:A:1324:HIS:H	1.43	0.83
1:A:1381:ILE:HG13	1:A:1404:ALA:CB	2.08	0.83
1:A:359:THR:HG21	1:A:372:LYS:H	1.42	0.83
1:B:43:VAL:HG12	1:B:79:PHE:HB3	1.58	0.83
1:B:1255:LEU:HD22	1:B:1270:VAL:HG12	1.58	0.83
1:B:981:GLY:O	1:B:982:LEU:HB2	1.78	0.83
1:A:1304:VAL:HG12	1:A:1305:LYS:H	1.42	0.83
1:A:835:ARG:HG2	1:A:835:ARG:HH11	1.44	0.82
1:A:1068:VAL:HG13	1:A:1069:TRP:N	1.93	0.82
1:B:364:LYS:CD	1:B:364:LYS:H	1.91	0.82
1:B:534:MET:HB3	1:B:538:SER:OG	1.78	0.82
1:B:354:LEU:H	1:B:354:LEU:CD2	1.92	0.82
1:B:618:LYS:HG3	1:B:621:GLU:OE1	1.79	0.82
1:A:120:THR:HG22	1:A:121:TYR:N	1.94	0.82
1:A:386:VAL:HG23	1:A:411:THR:CG2	2.08	0.82
1:B:1279:ARG:HB2	1:B:1284:PHE:HB2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1434:ALA:HA	1:B:1479:ILE:HG22	1.59	0.82
1:A:541:LEU:HB2	1:A:558:SER:HB3	1.60	0.82
1:B:834:VAL:HG21	1:B:1489:SER:OG	1.78	0.82
1:B:1180:LEU:HD12	1:B:1204:GLN:NE2	1.95	0.82
1:B:371:ILE:HD11	1:B:422:LEU:HD11	1.60	0.82
2:Y:146:LEU:HD22	2:Y:147:ASP:N	1.94	0.82
1:B:160:VAL:HG22	1:B:174:VAL:O	1.80	0.82
1:B:977:LEU:HD12	1:B:1361:VAL:HG21	1.60	0.82
2:Y:165:LEU:O	2:Y:169:ILE:HG12	1.80	0.82
1:A:1304:VAL:HG12	1:A:1305:LYS:N	1.93	0.82
1:B:494:ASP:O	1:B:496:ILE:HD12	1.77	0.82
1:A:618:LYS:HB2	1:A:621:GLU:HB3	1.61	0.81
1:B:42:GLN:HG3	1:B:80:GLN:HE21	1.44	0.81
1:A:569:ASN:OD1	1:A:596:MET:HB2	1.79	0.81
1:B:639:GLY:H	1:B:645:VAL:HG22	1.43	0.81
1:A:306:ALA:O	1:A:307:VAL:HG23	1.80	0.81
1:A:617:LYS:HE3	1:A:625:GLN:HE22	1.44	0.81
1:B:30:ILE:HG22	1:B:31:PHE:N	1.95	0.81
1:B:841:LEU:HD12	1:B:859:MET:HE1	1.61	0.81
1:B:936:ARG:CB	1:B:1364:VAL:HG22	2.10	0.81
1:A:157:ARG:H	1:A:178:ASP:HB3	1.45	0.81
1:A:330:ILE:HG22	1:A:337:SER:CB	2.10	0.81
1:A:1372:GLU:HG3	1:A:1373:GLU:H	1.45	0.81
1:A:361:LEU:O	1:A:454:ALA:HA	1.80	0.81
1:A:371:ILE:HD12	1:A:390:LEU:HD21	1.63	0.81
1:A:653:PHE:N	1:A:653:PHE:CD2	2.48	0.81
1:B:134:VAL:HG22	1:B:218:GLU:HB3	1.63	0.81
1:B:1244:THR:HG22	1:B:1246:ARG:N	1.95	0.81
1:A:1193:TYR:O	1:A:1196:SER:HB3	1.81	0.81
1:A:364:LYS:CD	1:A:364:LYS:H	1.93	0.81
1:A:492:TYR:HD2	1:A:493:ILE:N	1.79	0.81
1:A:576:SER:OG	1:A:589:SER:HB2	1.81	0.81
1:B:1372:GLU:HG3	1:B:1373:GLU:H	1.46	0.81
1:A:1209:VAL:O	1:A:1213:LYS:HB2	1.81	0.80
1:A:30:ILE:HG22	1:A:31:PHE:N	1.96	0.80
1:A:973:ILE:HG23	1:A:1365:VAL:CG2	2.12	0.80
1:A:115:LYS:HG2	1:A:117:MET:CE	2.11	0.80
1:B:1218:VAL:HG12	1:B:1225:TYR:O	1.81	0.80
1:A:386:VAL:O	1:A:411:THR:HG22	1.81	0.80
1:A:1217:LEU:O	1:A:1218:VAL:HG13	1.82	0.80
1:B:242:ASN:CB	1:B:245:ASN:O	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:977:LEU:HD12	1:B:1361:VAL:CG2	2.12	0.80
1:A:528:ILE:HD12	1:A:528:ILE:H	1.46	0.79
1:B:977:LEU:HA	1:B:1361:VAL:HG23	1.62	0.79
1:B:1429:PRO:HG2	1:B:1511:THR:HB	1.63	0.79
1:A:134:VAL:HG22	1:A:218:GLU:HB3	1.64	0.79
1:A:934:VAL:HG22	1:A:1366:HIS:CD2	2.15	0.79
1:A:1435:ASN:HD22	1:A:1478:ARG:HB2	1.48	0.79
1:A:246:PHE:O	1:A:300:THR:HA	1.82	0.79
1:A:388:VAL:O	1:A:388:VAL:HG12	1.83	0.79
1:B:653:PHE:CD2	1:B:653:PHE:N	2.50	0.79
2:Y:219:LYS:N	2:Y:219:LYS:HD2	1.97	0.79
1:A:395:ILE:HD12	1:A:396:ASP:O	1.82	0.79
1:A:354:LEU:CD2	1:A:354:LEU:H	1.96	0.79
1:A:386:VAL:N	1:A:411:THR:CG2	2.46	0.79
1:B:253:ARG:NH2	1:B:257:ASN:HA	1.98	0.79
1:B:388:VAL:HG12	1:B:388:VAL:O	1.83	0.79
1:B:486:VAL:O	1:B:488:PRO:HD3	1.80	0.79
1:B:560:TRP:CH2	1:B:562:ASN:HB2	2.18	0.78
1:B:560:TRP:CZ3	1:B:562:ASN:HB2	2.18	0.78
1:B:896:VAL:O	1:B:897:THR:HG22	1.82	0.78
1:A:534:MET:HB3	1:A:538:SER:OG	1.84	0.78
1:B:1090:ASN:HD21	1:B:1158:ILE:HG21	1.48	0.78
2:Y:219:LYS:HD2	2:Y:219:LYS:H	1.49	0.78
1:A:535:VAL:CG2	1:A:536:PRO:HD3	2.10	0.78
1:A:824:PHE:CE1	1:A:846:TYR:HD1	2.01	0.78
1:A:160:VAL:HG22	1:A:174:VAL:O	1.84	0.78
1:A:163:PHE:HD1	1:A:163:PHE:H	1.32	0.78
1:B:987:ILE:HD13	1:B:1294:ILE:HG23	1.65	0.78
1:B:1206:ARG:HH11	1:B:1206:ARG:CG	1.97	0.78
1:B:1279:ARG:HD3	1:B:1284:PHE:CD2	2.19	0.78
1:B:1323:LEU:HD12	1:B:1324:HIS:H	1.49	0.78
1:B:92:LEU:N	1:B:93:PRO:HD3	1.99	0.78
1:A:92:LEU:N	1:A:93:PRO:HD3	1.99	0.78
1:A:735:ALA:HB1	1:A:754:MET:HE1	1.64	0.78
1:A:386:VAL:HG12	1:A:387:PRO:HD2	1.65	0.78
1:A:1283:GLY:HA3	1:A:1290:THR:CG2	2.14	0.78
1:B:31:PHE:HZ	1:B:104:LEU:HD22	1.49	0.78
1:B:360:PRO:HA	1:B:636:ALA:HB3	1.65	0.78
1:B:392:ALA:HB3	1:B:404:LEU:HD12	1.66	0.78
1:A:85:LEU:H	1:A:85:LEU:HD22	1.49	0.78
1:B:717:ARG:HD3	1:B:1449:LEU:HA	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:392:ALA:HB3	1:A:404:LEU:HD12	1.65	0.77
1:A:1162:VAL:HG23	1:A:1163:LYS:H	1.49	0.77
1:A:296:ILE:HG22	1:A:297:ALA:H	1.49	0.77
1:A:1244:THR:HG22	1:A:1246:ARG:N	1.99	0.77
1:A:1429:PRO:HG2	1:A:1511:THR:HB	1.66	0.77
1:B:739:ARG:HB3	1:B:754:MET:SD	2.24	0.77
1:B:1248:VAL:HG21	1:B:1277:GLU:HG2	1.64	0.77
1:B:1381:ILE:HG13	1:B:1404:ALA:CB	2.14	0.77
1:A:249:THR:HG23	1:A:298:GLN:HE21	1.49	0.77
1:A:253:ARG:NH2	1:A:257:ASN:HA	2.00	0.77
1:A:1439:LEU:HA	1:A:1442:LEU:HD12	1.66	0.77
1:B:1090:ASN:ND2	1:B:1158:ILE:HD13	1.98	0.77
1:B:41:ILE:O	1:B:80:GLN:HA	1.84	0.77
1:B:59:TYR:CG	1:B:60:PRO:HD3	2.19	0.77
1:A:115:LYS:HG3	1:A:116:ARG:N	1.99	0.77
1:A:1193:TYR:CE1	1:A:1256:LEU:HB3	2.19	0.77
1:B:1146:ALA:HB1	1:B:1190:ILE:HG22	1.66	0.77
1:B:1229:LYS:HE3	1:B:1231:ASN:OD1	1.85	0.77
1:B:315:LEU:HB2	1:B:318:LEU:HB2	1.67	0.77
1:A:1466:SER:OG	1:A:1468:PRO:HD3	1.85	0.77
1:B:1027:THR:HG22	1:B:1302:LEU:HD21	1.66	0.77
1:A:1435:ASN:HB3	1:A:1438:ASP:CB	2.14	0.76
1:B:142:LYS:HD3	1:B:775:TRP:CG	2.20	0.76
1:B:1430:THR:O	1:B:1485:VAL:HG11	1.83	0.76
2:X:219:LYS:HD2	2:X:219:LYS:N	2.01	0.76
1:A:25:ILE:HB	1:A:654:LEU:HB3	1.68	0.76
1:B:618:LYS:HB3	1:B:621:GLU:HB3	1.65	0.76
1:B:938:SER:OG	1:B:1279:ARG:CZ	2.32	0.76
1:A:1430:THR:O	1:A:1485:VAL:HG11	1.84	0.76
1:B:968:VAL:O	1:B:971:THR:HG23	1.85	0.76
1:A:1434:ALA:HB1	1:A:1477:PHE:CD1	2.20	0.76
1:B:1255:LEU:HB2	1:B:1270:VAL:HG11	1.66	0.76
1:A:232:GLU:OE2	1:A:251:LYS:HE2	1.84	0.76
1:A:1132:THR:HB	1:A:1134:PRO:HD2	1.65	0.76
1:B:232:GLU:OE2	1:B:251:LYS:HE2	1.85	0.76
1:B:1246:ARG:O	1:B:1250:THR:HG23	1.85	0.76
1:A:739:ARG:HB3	1:A:754:MET:SD	2.26	0.76
1:A:849:ARG:HG2	1:A:853:MET:HE1	1.67	0.76
1:A:944:LEU:HB2	1:A:1357:ALA:HB3	1.66	0.76
1:B:161:LEU:HG	1:B:185:PHE:CE1	2.20	0.76
1:A:29:LYS:HE2	1:A:666:ASP:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:ILE:HG22	1:A:31:PHE:H	1.48	0.76
1:A:1146:ALA:HB1	1:A:1190:ILE:HG22	1.66	0.76
1:A:1230:ASP:OD2	1:A:1246:ARG:HD2	1.85	0.76
1:A:1318:LYS:HG2	1:A:1319:HIS:CE1	2.21	0.76
1:B:115:LYS:HG2	1:B:117:MET:CE	2.15	0.76
1:B:866:CYS:O	1:B:900:VAL:HG12	1.83	0.76
1:A:1030:HIS:NE2	1:A:1306:GLN:NE2	2.34	0.76
1:A:644:ASN:ND2	1:A:648:LEU:HD12	2.00	0.76
1:B:246:PHE:O	1:B:300:THR:HA	1.85	0.76
1:B:386:VAL:HG23	1:B:411:THR:CG2	2.14	0.76
1:A:1211:ALA:O	1:A:1214:ARG:HB3	1.85	0.75
1:B:1283:GLY:HA3	1:B:1290:THR:HG23	1.68	0.75
1:B:1236:ASP:HB2	1:B:1412:ARG:HH22	1.48	0.75
1:A:317:ASP:O	1:A:319:ASN:N	2.18	0.75
1:A:977:LEU:HD12	1:A:1361:VAL:CG2	2.17	0.75
1:A:938:SER:OG	1:A:1279:ARG:CZ	2.35	0.75
1:B:429:THR:OG1	1:B:430:VAL:N	2.14	0.75
1:A:1279:ARG:CG	1:A:1284:PHE:HB2	2.16	0.75
2:X:165:LEU:O	2:X:169:ILE:HG12	1.87	0.75
1:A:85:LEU:O	1:A:86:THR:HB	1.85	0.75
1:A:820:PHE:HZ	1:A:848:TYR:HB2	1.51	0.75
1:B:59:TYR:HB3	1:B:60:PRO:CD	2.17	0.75
1:B:1229:LYS:HD2	1:B:1239:VAL:HG12	1.67	0.75
1:A:1279:ARG:HB2	1:A:1284:PHE:HB2	1.68	0.75
1:B:541:LEU:HD12	1:B:645:VAL:HG12	1.69	0.75
1:B:1205:PHE:CZ	1:B:1261:LEU:HD11	2.20	0.75
1:A:1186:PHE:HD1	1:A:1250:THR:HG22	1.52	0.74
1:B:115:LYS:HG3	1:B:116:ARG:N	2.00	0.74
1:B:302:ASP:OD2	1:B:304:GLU:HB2	1.86	0.74
1:B:371:ILE:HD12	1:B:390:LEU:HD21	1.69	0.74
1:B:1186:PHE:HD1	1:B:1250:THR:HG22	1.52	0.74
1:A:494:ASP:O	1:A:496:ILE:HD12	1.85	0.74
2:X:219:LYS:HD2	2:X:219:LYS:H	1.51	0.74
1:B:330:ILE:HG22	1:B:337:SER:CB	2.16	0.74
1:B:963:ILE:HG23	1:B:973:ILE:HD11	1.69	0.74
1:B:367:ILE:HG21	1:B:466:TYR:HD2	1.52	0.74
1:B:1271:ILE:HD12	1:B:1271:ILE:O	1.87	0.74
1:A:486:VAL:O	1:A:488:PRO:HD3	1.86	0.74
1:B:386:VAL:H	1:B:411:THR:HG23	1.51	0.74
1:A:59:TYR:CG	1:A:60:PRO:HD3	2.22	0.74
1:B:829:ILE:HG13	1:B:925:LYS:HG2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1440:LYS:HD3	1:B:1453:TYR:CE1	2.21	0.74
1:A:59:TYR:CD2	1:A:60:PRO:HD3	2.22	0.74
1:A:1108:VAL:HG13	1:A:1109:GLU:H	1.53	0.74
2:X:224:ILE:O	2:X:225:GLU:HG3	1.87	0.74
1:A:59:TYR:HB3	1:A:60:PRO:CD	2.16	0.74
1:B:365:PRO:HD2	1:B:464:TYR:CD2	2.23	0.74
1:A:363:LEU:HD12	1:A:363:LEU:O	1.88	0.73
1:A:1251:THR:HG1	1:A:1273:TRP:HZ3	1.34	0.73
1:B:1180:LEU:HD12	1:B:1204:GLN:HE22	1.52	0.73
1:A:497:THR:HG23	1:A:498:HIS:H	1.52	0.73
1:A:1427:SER:HB3	1:A:1492:THR:H	1.53	0.73
1:B:139:GLN:O	1:B:190:ILE:HG12	1.87	0.73
1:A:295:GLY:O	1:A:296:ILE:HD13	1.88	0.73
1:A:386:VAL:CG2	1:A:411:THR:HG21	2.16	0.73
1:B:297:ALA:O	1:B:298:GLN:HG3	1.88	0.73
1:B:1283:GLY:HA3	1:B:1290:THR:CG2	2.18	0.73
1:B:1068:VAL:HG13	1:B:1069:TRP:N	1.99	0.73
1:B:1503:LYS:N	1:B:1503:LYS:HD2	2.02	0.73
1:A:66:TYR:CE1	1:A:90:LYS:HG3	2.22	0.73
1:A:618:LYS:HB3	1:A:621:GLU:HB3	1.70	0.73
1:A:1205:PHE:CZ	1:A:1261:LEU:HD11	2.24	0.73
1:A:1246:ARG:O	1:A:1250:THR:HG23	1.88	0.73
1:B:718:ILE:HG12	1:B:1446:VAL:HG12	1.70	0.73
1:A:837:GLU:HG2	1:A:1487:PHE:O	1.88	0.73
1:A:1229:LYS:HE3	1:A:1231:ASN:OD1	1.88	0.73
1:B:59:TYR:CD2	1:B:60:PRO:HD3	2.23	0.73
1:B:515:ARG:HH12	1:B:527:ASN:H	1.37	0.73
1:B:1427:SER:HB3	1:B:1492:THR:H	1.54	0.73
1:A:42:GLN:HG3	1:A:80:GLN:HE21	1.53	0.73
1:A:1205:PHE:HZ	1:A:1261:LEU:HD11	1.52	0.73
1:A:1440:LYS:HD3	1:A:1453:TYR:CE1	2.23	0.73
1:A:492:TYR:CD2	1:A:493:ILE:N	2.57	0.73
1:A:1230:ASP:CG	1:A:1246:ARG:HD2	2.08	0.73
1:A:1236:ASP:HB2	1:A:1412:ARG:HH22	1.53	0.73
1:B:25:ILE:HB	1:B:654:LEU:HB3	1.69	0.73
1:B:42:GLN:HB2	1:B:80:GLN:HG2	1.68	0.73
1:B:1193:TYR:CD1	1:B:1256:LEU:HB3	2.23	0.73
1:A:43:VAL:HG12	1:A:79:PHE:HB3	1.68	0.73
1:A:913:SER:HB2	1:A:922:ILE:HG12	1.71	0.73
1:B:367:ILE:HD13	1:B:466:TYR:CD2	2.24	0.73
1:A:267:ILE:HG12	1:A:327:VAL:HG13	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:LYS:HB3	1:B:154:PRO:HD2	1.71	0.73
1:A:977:LEU:HD12	1:A:1361:VAL:HG21	1.71	0.72
1:B:30:ILE:HG22	1:B:31:PHE:H	1.52	0.72
1:B:354:LEU:H	1:B:354:LEU:HD23	1.52	0.72
1:B:700:TYR:HE1	1:B:758:LEU:HB2	1.53	0.72
2:X:146:LEU:HD11	2:X:148:ALA:HB2	1.71	0.72
1:B:1113:LEU:HD12	1:B:1117:SER:OG	1.88	0.72
1:A:976:ILE:HD12	1:A:1362:THR:CG2	2.20	0.72
1:B:849:ARG:HG2	1:B:853:MET:HE1	1.72	0.72
1:A:443:PRO:HG3	1:B:441:ASP:O	1.88	0.72
1:A:700:TYR:HE1	1:A:758:LEU:HB2	1.54	0.72
1:B:234:GLU:HG3	1:B:247:GLU:HB3	1.70	0.72
1:B:354:LEU:HD12	1:B:435:VAL:CG1	2.20	0.72
2:Y:186:TYR:CD2	2:Y:229:LYS:HD3	2.24	0.72
1:A:1229:LYS:HD2	1:A:1239:VAL:HG12	1.71	0.72
1:B:306:ALA:O	1:B:307:VAL:HG23	1.88	0.72
1:B:367:ILE:HG21	1:B:466:TYR:CD2	2.23	0.72
1:B:386:VAL:N	1:B:411:THR:CG2	2.52	0.72
1:B:794:LEU:HD21	1:B:824:PHE:CZ	2.23	0.72
1:B:837:GLU:HG2	1:B:1488:LEU:HA	1.72	0.72
1:A:1334:LEU:HD22	1:A:1334:LEU:N	2.04	0.72
1:B:492:TYR:CD2	1:B:493:ILE:N	2.57	0.72
1:A:157:ARG:HD2	1:A:205:TYR:CE2	2.24	0.72
1:A:367:ILE:HD13	1:A:466:TYR:HD2	1.54	0.72
1:A:638:GLY:HA2	1:A:645:VAL:HG13	1.70	0.72
1:A:915:GLU:OE2	1:A:920:LYS:HE3	1.89	0.72
1:A:1024:TYR:C	1:A:1024:TYR:CD2	2.63	0.72
1:B:364:LYS:H	1:B:364:LYS:HD2	1.52	0.72
1:B:1030:HIS:O	1:B:1033:ILE:HG13	1.90	0.72
1:B:1421:HIS:CE1	1:B:1498:TYR:CD2	2.78	0.72
1:A:1445:GLY:O	1:A:1448:GLN:HB3	1.89	0.72
1:B:242:ASN:H	1:B:242:ASN:ND2	1.86	0.72
1:B:644:ASN:HD21	1:B:648:LEU:HD12	1.53	0.72
1:A:386:VAL:H	1:A:411:THR:HG22	1.54	0.72
1:B:585:GLY:HA2	1:B:790:LEU:O	1.89	0.72
1:B:1230:ASP:OD2	1:B:1246:ARG:HD2	1.90	0.72
1:A:441:ASP:O	1:B:443:PRO:HG3	1.90	0.72
1:A:571:LEU:HG	1:A:812:ALA:HB2	1.71	0.72
1:A:1030:HIS:CE1	1:A:1306:GLN:NE2	2.58	0.72
1:A:1465:ASN:H	1:A:1465:ASN:HD22	1.37	0.72
1:B:1024:TYR:CE2	1:B:1030:HIS:CD2	2.78	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1274:LEU:HB3	1:B:1297:LEU:HD11	1.71	0.72
1:A:428:VAL:HG22	1:A:429:THR:H	1.53	0.71
1:A:718:ILE:HG12	1:A:1446:VAL:HG12	1.72	0.71
1:B:1205:PHE:HZ	1:B:1261:LEU:HD11	1.53	0.71
1:A:242:ASN:HD22	1:A:242:ASN:H	1.37	0.71
1:A:710:THR:HG23	1:A:713:GLN:CD	2.10	0.71
1:A:1084:ARG:HD2	1:A:1154:LYS:HG3	1.72	0.71
2:Y:189:ILE:O	2:Y:200:GLU:HA	1.89	0.71
1:A:532:GLN:O	1:A:535:VAL:HG13	1.90	0.71
1:B:363:LEU:HD12	1:B:363:LEU:O	1.91	0.71
1:B:504:LEU:HD21	1:B:651:LEU:HG	1.70	0.71
1:B:1024:TYR:CD2	1:B:1024:TYR:C	2.63	0.71
1:A:1422:ALA:O	1:A:1464:LEU:HD12	1.90	0.71
2:Y:136:LEU:HD21	2:Y:153:PHE:HB2	1.72	0.71
1:A:499:TYR:O	1:A:514:THR:HG23	1.89	0.71
1:A:981:GLY:HA3	1:A:1309:LEU:HD11	1.73	0.71
1:B:1466:SER:OG	1:B:1468:PRO:HD3	1.89	0.71
1:A:123:ASN:C	1:A:123:ASN:HD22	1.94	0.71
1:A:695:VAL:HA	1:A:698:CYS:SG	2.31	0.71
1:B:43:VAL:CG1	1:B:79:PHE:HB3	2.20	0.71
1:A:425:PRO:O	1:A:427:GLY:N	2.23	0.71
1:A:733:VAL:O	1:A:737:GLN:HG2	1.90	0.71
1:A:839:ILE:HG22	1:A:900:VAL:HG23	1.72	0.71
1:A:1488:LEU:HD12	1:A:1488:LEU:O	1.90	0.71
2:X:140:LYS:HA	2:X:228:LEU:HB2	1.72	0.71
1:B:1053:MET:HE1	1:B:1086:LEU:HD22	1.72	0.71
1:B:1334:LEU:HD22	1:B:1334:LEU:N	2.06	0.71
1:B:271:ILE:HG21	1:B:313:TYR:CE1	2.25	0.71
1:B:835:ARG:CZ	1:B:905:ILE:HD11	2.20	0.71
1:B:1239:VAL:O	1:B:1241:ASN:N	2.24	0.71
1:B:1251:THR:HG21	1:B:1273:TRP:CH2	2.25	0.71
1:A:330:ILE:HG22	1:A:337:SER:OG	1.91	0.71
1:A:1080:ALA:O	1:A:1083:LEU:N	2.24	0.71
1:A:1296:GLY:O	1:A:1298:THR:N	2.24	0.71
1:B:386:VAL:H	1:B:411:THR:HG22	1.56	0.71
1:B:1449:LEU:HD12	1:B:1449:LEU:O	1.90	0.71
1:B:1449:LEU:HG	1:B:1450:PHE:CD1	2.26	0.71
1:B:1465:ASN:H	1:B:1465:ASN:HD22	1.38	0.71
1:B:352:TYR:HA	1:B:376:LYS:O	1.91	0.71
1:A:41:ILE:O	1:A:80:GLN:HA	1.90	0.70
1:A:1180:LEU:O	1:A:1182:ALA:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1421:HIS:CE1	1:A:1498:TYR:CD2	2.79	0.70
1:B:635:GLY:HA2	1:B:672:ILE:CG2	2.20	0.70
1:A:1449:LEU:HG	1:A:1450:PHE:CD1	2.26	0.70
1:A:42:GLN:HB2	1:A:80:GLN:HG2	1.72	0.70
1:B:157:ARG:HD2	1:B:205:TYR:CE2	2.27	0.70
1:B:542:VAL:O	1:B:556:SER:HB2	1.91	0.70
1:B:1211:ALA:O	1:B:1214:ARG:HB3	1.90	0.70
1:A:194:PRO:O	1:A:1070:LYS:NZ	2.25	0.70
2:Y:134:THR:HG23	2:Y:153:PHE:HB3	1.73	0.70
1:A:794:LEU:HD21	1:A:824:PHE:CZ	2.26	0.70
1:B:1142:LEU:HD13	1:B:1187:THR:CG2	2.21	0.70
1:A:242:ASN:CB	1:A:245:ASN:O	2.39	0.70
1:A:367:ILE:HG21	1:A:466:TYR:CD2	2.26	0.70
1:B:243:PHE:CE2	1:B:316:GLU:HG2	2.27	0.70
1:B:1008:ALA:HB3	1:B:1078:LEU:HD11	1.71	0.70
1:B:1279:ARG:HD3	1:B:1284:PHE:CG	2.27	0.70
1:A:1202:HIS:HD2	1:A:1204:GLN:H	1.38	0.70
2:X:183:THR:O	2:X:230:GLN:HA	1.92	0.70
1:B:1377:PHE:CE1	1:B:1467:ILE:HD12	2.27	0.70
1:B:1423:VAL:HG21	1:B:1496:TYR:HE1	1.56	0.70
1:A:1449:LEU:HG	1:A:1450:PHE:CE1	2.26	0.70
1:B:1435:ASN:ND2	1:B:1478:ARG:HE	1.90	0.70
1:B:1488:LEU:HD12	1:B:1488:LEU:O	1.92	0.70
1:A:599:TRP:HB2	1:A:804:ILE:O	1.92	0.70
1:B:354:LEU:CD2	1:B:354:LEU:N	2.53	0.70
1:B:1219:LYS:HB2	1:B:1225:TYR:HB2	1.72	0.70
1:B:1317:TYR:HB3	1:B:1344:ASP:OD2	1.92	0.70
1:A:367:ILE:HG21	1:A:466:TYR:HD2	1.56	0.69
1:A:774:LEU:HD11	1:A:788:PHE:CZ	2.27	0.69
1:A:968:VAL:O	1:A:971:THR:HG23	1.92	0.69
1:A:1078:LEU:O	1:A:1078:LEU:HD23	1.92	0.69
1:B:396:ASP:OD1	1:B:398:ASN:HB2	1.92	0.69
1:B:585:GLY:O	1:B:789:ALA:HB1	1.92	0.69
1:B:1217:LEU:C	1:B:1218:VAL:HG22	2.11	0.69
1:B:1449:LEU:HG	1:B:1450:PHE:CE1	2.26	0.69
1:A:244:LYS:HE3	1:A:304:GLU:OE1	1.92	0.69
1:A:560:TRP:CH2	1:A:562:ASN:HB2	2.27	0.69
1:A:717:ARG:HD3	1:A:1449:LEU:HA	1.72	0.69
1:B:577:PRO:HD2	1:B:588:VAL:HG23	1.73	0.69
1:A:554:LEU:HB3	1:A:642:ASN:OD1	1.91	0.69
1:A:492:TYR:HD2	1:A:493:ILE:H	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:719:SER:O	1:A:721:GLY:N	2.25	0.69
1:A:855:PHE:HA	1:A:915:GLU:O	1.91	0.69
1:A:1435:ASN:ND2	1:A:1478:ARG:HE	1.90	0.69
1:B:191:PRO:HG2	1:B:194:PRO:HB3	1.75	0.69
1:B:194:PRO:O	1:B:1070:LYS:NZ	2.25	0.69
1:A:1279:ARG:HG3	1:A:1284:PHE:HB2	1.74	0.69
1:B:85:LEU:H	1:B:85:LEU:HD22	1.57	0.69
1:B:428:VAL:HG22	1:B:429:THR:H	1.57	0.69
1:B:1069:TRP:HE1	1:B:1463:GLN:NE2	1.89	0.69
1:B:1300:TYR:CZ	1:B:1304:VAL:HG21	2.27	0.69
1:B:1421:HIS:HE1	1:B:1498:TYR:CD2	2.10	0.69
1:A:1239:VAL:O	1:A:1241:ASN:N	2.26	0.69
1:B:242:ASN:ND2	1:B:242:ASN:N	2.41	0.69
1:B:994:GLN:NE2	1:B:998:ASN:HB3	2.06	0.69
1:A:180:ILE:HG21	1:A:599:TRP:CE2	2.28	0.69
1:A:1000:LEU:HD12	1:A:1017:PRO:HG3	1.75	0.69
1:A:1180:LEU:HD12	1:A:1204:GLN:HE22	1.55	0.69
1:A:1255:LEU:HD22	1:A:1270:VAL:CG1	2.22	0.69
1:B:99:VAL:HB	1:B:121:TYR:OH	1.93	0.69
1:B:609:VAL:CG2	1:B:610:TYR:H	1.91	0.69
1:B:1218:VAL:HG12	1:B:1226:ARG:HA	1.74	0.69
1:B:1249:GLU:HB2	1:B:1289:ASP:HB3	1.75	0.69
1:B:1348:VAL:HG21	1:B:1359:VAL:HG11	1.75	0.69
1:A:625:GLN:O	1:A:629:LYS:HE2	1.93	0.69
1:A:641:ASN:H	1:A:644:ASN:HB3	1.57	0.69
1:A:1027:THR:HG22	1:A:1302:LEU:HD21	1.74	0.69
1:A:1039:LEU:O	1:A:1042:LYS:HB3	1.93	0.69
1:A:1490:PRO:HB3	1:A:1509:TYR:O	1.92	0.69
1:B:588:VAL:HG11	1:B:790:LEU:HD11	1.75	0.69
1:B:686:ILE:O	1:B:689:LYS:HG2	1.92	0.69
1:B:1491:ALA:HB3	1:B:1509:TYR:HE2	1.56	0.69
1:A:271:ILE:O	1:A:280:LYS:HB2	1.93	0.69
1:A:307:VAL:HG11	1:A:313:TYR:HB2	1.74	0.69
1:A:429:THR:OG1	1:A:430:VAL:N	2.20	0.69
1:A:1079:THR:HG21	1:A:1106:TRP:CE3	2.27	0.69
1:B:199:TRP:HB2	1:B:217:PHE:O	1.93	0.69
1:B:488:PRO:O	1:B:491:PRO:HD2	1.93	0.69
1:A:977:LEU:HA	1:A:1361:VAL:HG23	1.75	0.68
1:A:1300:TYR:CZ	1:A:1304:VAL:HG21	2.28	0.68
1:A:1487:PHE:CD2	1:A:1487:PHE:N	2.60	0.68
2:Y:166:ASP:CG	2:Y:201:ILE:HD13	2.13	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:620:LEU:HD13	1:A:811:VAL:H	1.59	0.68
1:B:227:PHE:HB3	1:B:254:TYR:HD2	1.57	0.68
1:B:315:LEU:CB	1:B:318:LEU:HB2	2.24	0.68
1:B:492:TYR:HD2	1:B:493:ILE:N	1.91	0.68
1:B:947:ARG:O	1:B:949:ILE:N	2.25	0.68
1:B:1104:LEU:HD13	1:B:1164:ILE:HD13	1.75	0.68
1:B:1348:VAL:HG11	1:B:1359:VAL:CG2	2.22	0.68
2:Y:140:LYS:O	2:Y:146:LEU:HD23	1.94	0.68
2:Y:142:TYR:HB2	2:Y:145:ASN:HB2	1.74	0.68
1:A:628:GLU:C	1:A:629:LYS:HD3	2.14	0.68
1:B:915:GLU:OE2	1:B:920:LYS:HE3	1.93	0.68
1:B:1487:PHE:CD2	1:B:1487:PHE:N	2.61	0.68
1:B:131:ASP:OD1	1:B:132:LYS:N	2.25	0.68
1:B:617:LYS:HE3	1:B:625:GLN:NE2	2.08	0.68
1:A:823:VAL:HG22	1:A:847:ASN:HA	1.76	0.68
1:A:1334:LEU:HD22	1:A:1334:LEU:H	1.58	0.68
1:A:297:ALA:O	1:A:298:GLN:HG3	1.93	0.68
1:A:1183:GLN:C	1:A:1232:LEU:HD22	2.14	0.68
1:A:1429:PRO:HB2	1:A:1432:ILE:HG13	1.75	0.68
1:B:151:ASP:OD2	1:B:508:LYS:NZ	2.27	0.68
1:B:478:VAL:HG11	1:B:566:LYS:HD3	1.75	0.68
1:B:1019:PHE:CE2	1:B:1020:TYR:CE1	2.82	0.68
1:B:1019:PHE:HE2	1:B:1088:GLN:HE21	1.38	0.68
1:A:498:HIS:HB3	1:A:514:THR:CG2	2.24	0.68
2:X:189:ILE:O	2:X:200:GLU:HA	1.93	0.68
1:B:644:ASN:ND2	1:B:648:LEU:HD12	2.09	0.68
1:B:653:PHE:N	1:B:653:PHE:HD2	1.92	0.68
1:B:1271:ILE:HD12	1:B:1271:ILE:C	2.14	0.68
1:A:1029:ASN:O	1:A:1029:ASN:ND2	2.27	0.68
1:A:1219:LYS:HB2	1:A:1225:TYR:HB2	1.74	0.68
1:B:44:TYR:CE1	1:B:497:THR:HG21	2.29	0.68
1:A:29:LYS:O	1:A:30:ILE:HD13	1.94	0.68
1:A:412:ARG:HD2	1:A:415:ASP:CB	2.24	0.68
1:B:820:PHE:CE2	1:B:848:TYR:HD2	2.11	0.68
1:B:986:GLU:OE2	1:B:986:GLU:HA	1.92	0.68
1:A:182:ILE:HG12	1:A:804:ILE:HD11	1.74	0.68
1:A:231:ILE:HD13	1:A:342:ILE:HG13	1.76	0.68
1:A:561:LEU:O	1:A:563:ILE:HG22	1.94	0.68
1:A:1132:THR:CB	1:A:1134:PRO:HD2	2.24	0.68
1:A:1378:TYR:CZ	1:A:1409:LYS:HE3	2.29	0.68
2:X:189:ILE:HD11	2:X:203:LEU:HD21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:LYS:HE3	1:B:304:GLU:OE1	1.94	0.68
1:B:425:PRO:O	1:B:427:GLY:N	2.27	0.68
1:B:968:VAL:HG12	1:B:1368:THR:CG2	2.11	0.68
1:A:62:LYS:HD3	1:A:105:GLU:OE2	1.92	0.67
1:A:131:ASP:CG	1:A:132:LYS:N	2.48	0.67
1:A:488:PRO:O	1:A:491:PRO:HD2	1.94	0.67
1:A:541:LEU:HD12	1:A:645:VAL:HG12	1.76	0.67
1:A:1157:ASP:O	1:A:1160:PRO:HD3	1.94	0.67
1:A:1491:ALA:HB3	1:A:1509:TYR:HE2	1.58	0.67
1:B:520:ASP:CG	1:B:521:ALA:H	1.97	0.67
1:B:600:VAL:O	1:B:777:VAL:HG13	1.93	0.67
1:B:835:ARG:HH11	1:B:835:ARG:CG	2.06	0.67
1:A:1142:LEU:HD13	1:A:1187:THR:CG2	2.24	0.67
1:A:302:ASP:OD2	1:A:304:GLU:HB2	1.93	0.67
1:A:1494:THR:HB	1:A:1506:THR:HG23	1.77	0.67
1:B:532:GLN:O	1:B:535:VAL:HG13	1.94	0.67
1:A:109:LYS:HD2	1:A:110:HIS:N	2.09	0.67
2:X:153:PHE:HE1	2:X:168:LYS:HB3	1.59	0.67
1:B:249:THR:HG23	1:B:298:GLN:NE2	2.08	0.67
1:B:1184:SER:HA	1:B:1232:LEU:HB2	1.76	0.67
1:A:51:ASP:OD2	1:A:70:HIS:NE2	2.27	0.67
1:A:157:ARG:O	1:A:178:ASP:HB2	1.94	0.67
1:A:316:GLU:O	1:A:317:ASP:C	2.33	0.67
1:A:354:LEU:HD22	1:A:354:LEU:N	2.10	0.67
1:A:504:LEU:HD21	1:A:651:LEU:HG	1.75	0.67
1:A:1150:ILE:HD11	1:A:1190:ILE:HG23	1.74	0.67
1:A:1218:VAL:HG12	1:A:1225:TYR:O	1.95	0.67
1:A:1278:GLN:HA	1:A:1278:GLN:NE2	2.09	0.67
1:B:271:ILE:O	1:B:280:LYS:HB2	1.93	0.67
1:B:620:LEU:HD13	1:B:811:VAL:H	1.60	0.67
1:B:932:GLU:N	1:B:932:GLU:OE1	2.28	0.67
1:B:1183:GLN:C	1:B:1232:LEU:HD22	2.15	0.67
1:B:1244:THR:HB	1:B:1247:MET:CB	2.23	0.67
1:A:1249:GLU:HB2	1:A:1289:ASP:HB3	1.76	0.67
1:A:1323:LEU:CD1	1:A:1324:HIS:H	2.07	0.67
2:X:143:GLY:C	2:X:145:ASN:H	1.97	0.67
1:B:1111:TYR:CE1	1:B:1121:ASN:HB2	2.30	0.67
2:Y:183:THR:O	2:Y:230:GLN:HA	1.94	0.67
1:A:99:VAL:HB	1:A:121:TYR:OH	1.94	0.67
1:A:412:ARG:CD	1:A:415:ASP:HB2	2.23	0.67
1:B:1025:LEU:HD13	1:B:1031:TRP:CZ3	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1296:GLY:O	1:B:1298:THR:N	2.27	0.67
1:A:292:LEU:HD13	1:A:293:ILE:N	2.09	0.67
1:A:820:PHE:CE2	1:A:848:TYR:HD2	2.13	0.67
1:A:859:MET:HB2	1:A:912:PHE:CE1	2.30	0.67
1:B:350:SER:CB	1:B:446:ASN:O	2.43	0.67
1:B:528:ILE:HD12	1:B:528:ILE:N	2.08	0.67
1:B:1019:PHE:CE2	1:B:1020:TYR:HE1	2.13	0.67
2:Y:189:ILE:HD11	2:Y:203:LEU:HD21	1.76	0.67
1:A:23:TYR:CE1	1:A:656:ASN:HB2	2.30	0.67
1:A:227:PHE:O	1:A:338:GLU:HG2	1.95	0.67
1:A:375:VAL:HG12	1:A:383:VAL:HG13	1.77	0.67
2:X:134:THR:HG23	2:X:153:PHE:HB3	1.76	0.67
1:A:354:LEU:CD2	1:A:354:LEU:N	2.57	0.67
1:A:947:ARG:HB2	1:A:949:ILE:HG13	1.77	0.67
1:B:386:VAL:O	1:B:411:THR:HG22	1.94	0.67
1:B:702:GLY:HA2	1:B:728:PHE:CE1	2.30	0.67
1:B:837:GLU:HG2	1:B:1487:PHE:O	1.95	0.67
1:B:856:CYS:HB3	1:B:915:GLU:HB2	1.76	0.67
1:B:1079:THR:HG21	1:B:1106:TRP:CE3	2.30	0.67
1:B:1323:LEU:CD1	1:B:1324:HIS:H	2.08	0.67
1:A:160:VAL:HG22	1:A:174:VAL:C	2.16	0.66
1:A:855:PHE:CE1	1:A:886:GLN:HB3	2.28	0.66
1:A:1003:LEU:HD13	1:A:1498:TYR:CE1	2.30	0.66
1:A:1090:ASN:ND2	1:A:1158:ILE:HD13	2.08	0.66
2:X:166:ASP:CG	2:X:201:ILE:HD13	2.14	0.66
1:B:700:TYR:CE1	1:B:758:LEU:HB2	2.29	0.66
1:B:859:MET:HB2	1:B:912:PHE:CE1	2.31	0.66
2:Y:224:ILE:O	2:Y:225:GLU:HG3	1.95	0.66
1:A:617:LYS:HE3	1:A:625:GLN:NE2	2.10	0.66
1:A:837:GLU:OE2	1:A:1488:LEU:HB2	1.95	0.66
1:A:1217:LEU:C	1:A:1218:VAL:HG22	2.14	0.66
1:A:1425:ASP:HB3	1:A:1494:THR:HG23	1.77	0.66
1:B:719:SER:O	1:B:721:GLY:N	2.28	0.66
1:B:977:LEU:HA	1:B:1361:VAL:CG2	2.24	0.66
1:A:242:ASN:H	1:A:242:ASN:ND2	1.92	0.66
1:A:520:ASP:CG	1:A:521:ALA:H	1.99	0.66
1:A:835:ARG:CZ	1:A:905:ILE:HD11	2.26	0.66
1:B:123:ASN:C	1:B:123:ASN:HD22	1.99	0.66
1:B:1244:THR:HB	1:B:1247:MET:HB2	1.77	0.66
2:Y:167:PHE:O	2:Y:171:GLN:HB2	1.95	0.66
1:A:73:LEU:HD23	1:A:73:LEU:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:TYR:HA	1:A:376:LYS:O	1.94	0.66
1:A:1068:VAL:CG1	1:A:1069:TRP:H	1.99	0.66
1:A:1115:ASN:ND2	1:A:1117:SER:H	1.94	0.66
1:B:1328:MET:O	1:B:1329:THR:HG23	1.96	0.66
1:B:1334:LEU:HD22	1:B:1334:LEU:H	1.60	0.66
1:A:1024:TYR:OH	1:A:1306:GLN:NE2	2.29	0.66
1:A:1054:LEU:O	1:A:1056:ILE:N	2.29	0.66
1:A:1279:ARG:CB	1:A:1284:PHE:HB2	2.25	0.66
1:B:831:TYR:CE1	1:B:1457:ASP:HB3	2.31	0.66
1:B:1379:LEU:HD21	1:B:1495:VAL:HG11	1.75	0.66
2:Y:162:LEU:CD1	2:Y:165:LEU:HD23	2.26	0.66
1:A:77:ASN:ND2	1:A:81:ASN:ND2	2.43	0.66
1:A:837:GLU:HG2	1:A:1488:LEU:HA	1.77	0.66
1:A:1136:GLU:OE1	1:A:1415:SER:CB	2.43	0.66
1:B:109:LYS:HD2	1:B:110:HIS:N	2.10	0.66
1:B:291:MET:O	1:B:293:ILE:HG13	1.95	0.66
1:B:1008:ALA:HB3	1:B:1078:LEU:CD1	2.26	0.66
1:A:28:PRO:HB2	1:A:30:ILE:O	1.95	0.66
1:A:113:LYS:HG3	1:A:114:SER:H	1.61	0.66
1:A:315:LEU:HB2	1:A:318:LEU:HB2	1.78	0.66
1:A:1025:LEU:HD13	1:A:1031:TRP:CZ3	2.31	0.66
1:B:415:ASP:CG	1:B:417:VAL:HB	2.16	0.66
1:B:1144:LEU:O	1:B:1148:THR:HG22	1.96	0.66
1:B:1150:ILE:HD11	1:B:1190:ILE:HG23	1.75	0.66
1:A:161:LEU:HG	1:A:185:PHE:CE1	2.31	0.66
1:A:308:LYS:HG2	1:A:314:SER:HA	1.78	0.66
1:A:857:VAL:HG21	1:A:896:VAL:HG11	1.78	0.66
2:X:143:GLY:O	2:X:145:ASN:N	2.28	0.66
1:B:315:LEU:HD12	1:B:318:LEU:HD12	1.76	0.66
1:B:364:LYS:HG2	1:B:465:LEU:O	1.94	0.66
1:B:395:ILE:O	1:B:429:THR:HG23	1.96	0.66
1:B:629:LYS:HD3	1:B:629:LYS:N	2.10	0.66
1:B:839:ILE:CG2	1:B:900:VAL:HG23	2.26	0.66
1:B:1245:ALA:HB2	1:B:1501:PRO:HD2	1.77	0.66
1:B:1380:LYS:HG3	1:B:1405:CYS:SG	2.36	0.66
1:A:317:ASP:C	1:A:319:ASN:H	1.97	0.66
1:A:350:SER:HB2	1:A:446:ASN:O	1.95	0.66
1:A:927:LEU:HD22	1:A:929:VAL:HG22	1.76	0.66
1:A:946:PRO:HB3	1:A:1352:PHE:O	1.96	0.66
1:A:1104:LEU:HD13	1:A:1164:ILE:HD13	1.77	0.66
1:A:1503:LYS:HD2	1:A:1503:LYS:N	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:350:SER:HB2	1:B:446:ASN:O	1.95	0.66
1:B:708:ASP:OD2	1:B:1401:ARG:NH2	2.29	0.66
1:B:1203:PRO:O	1:B:1206:ARG:HB2	1.96	0.66
1:B:1422:ALA:O	1:B:1464:LEU:HD12	1.96	0.66
1:A:350:SER:CB	1:A:446:ASN:O	2.44	0.65
1:A:563:ILE:HG13	1:A:564:GLU:N	2.10	0.65
2:X:162:LEU:CD1	2:X:165:LEU:HD23	2.26	0.65
1:B:182:ILE:HG12	1:B:804:ILE:HD11	1.76	0.65
1:B:249:THR:CG2	1:B:298:GLN:HE21	2.09	0.65
1:B:503:ILE:HG12	1:B:540:LEU:HB3	1.78	0.65
1:B:1020:TYR:HD2	1:B:1294:ILE:HG22	1.60	0.65
1:B:1024:TYR:OH	1:B:1306:GLN:NE2	2.29	0.65
1:A:700:TYR:CE1	1:A:758:LEU:HB2	2.31	0.65
1:B:243:PHE:CE1	1:B:316:GLU:HG2	2.31	0.65
1:B:364:LYS:HD2	1:B:364:LYS:N	2.11	0.65
1:B:987:ILE:HD11	1:B:1294:ILE:HD13	1.77	0.65
1:B:1202:HIS:CD2	1:B:1204:GLN:HB3	2.31	0.65
1:A:156:LYS:O	1:A:157:ARG:CG	2.41	0.65
1:A:617:LYS:CE	1:A:625:GLN:HE22	2.09	0.65
1:A:1020:TYR:HD2	1:A:1294:ILE:HG22	1.61	0.65
1:A:1239:VAL:O	1:A:1239:VAL:HG23	1.95	0.65
2:X:189:ILE:HG23	2:X:226:VAL:HG22	1.76	0.65
1:B:492:TYR:HD2	1:B:493:ILE:H	1.41	0.65
1:B:1028:GLY:O	1:B:1029:ASN:C	2.33	0.65
1:B:1378:TYR:CZ	1:B:1409:LYS:HE3	2.31	0.65
1:A:952:THR:OG1	1:A:953:ILE:N	2.29	0.65
1:B:583:SER:OG	1:B:586:GLN:HB2	1.97	0.65
1:B:1213:LYS:HE3	1:B:1266:TYR:CE2	2.32	0.65
1:B:1320:LYS:HD2	1:B:1321:GLY:H	1.62	0.65
2:Y:143:GLY:C	2:Y:145:ASN:H	1.99	0.65
1:A:394:THR:HG22	1:A:402:SER:OG	1.96	0.65
1:A:968:VAL:O	1:A:968:VAL:HG23	1.95	0.65
1:A:1221:ASN:HA	1:A:1222:PRO:C	2.17	0.65
1:A:1379:LEU:HD21	1:A:1495:VAL:HG11	1.78	0.65
1:B:238:ILE:HG12	1:B:246:PHE:CE1	2.32	0.65
1:B:242:ASN:HB3	1:B:245:ASN:OD1	1.96	0.65
1:B:1263:ASP:O	1:B:1265:ASN:N	2.30	0.65
1:A:856:CYS:O	1:A:914:LEU:HA	1.97	0.65
1:A:1008:ALA:HB2	1:A:1059:TYR:CD2	2.31	0.65
1:A:1076:THR:CG2	1:A:1120:GLU:HA	2.27	0.65
1:B:1003:LEU:HD13	1:B:1498:TYR:CE1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:146:LEU:HD13	2:X:146:LEU:O	1.96	0.65
1:B:1115:ASN:HD22	1:B:1115:ASN:C	1.99	0.65
1:B:1445:GLY:O	1:B:1448:GLN:HB3	1.96	0.65
1:A:43:VAL:CG1	1:A:79:PHE:HB3	2.26	0.65
1:A:712:GLU:HA	1:A:715:ALA:HB3	1.78	0.65
1:B:227:PHE:HZ	1:B:329:VAL:O	1.80	0.65
1:B:628:GLU:C	1:B:629:LYS:HD3	2.16	0.65
1:B:683:ILE:HD13	1:B:735:ALA:HB2	1.77	0.65
1:B:934:VAL:HG22	1:B:1366:HIS:CD2	2.32	0.65
2:Y:146:LEU:HD11	2:Y:148:ALA:HB2	1.78	0.65
1:A:160:VAL:HG23	1:A:175:GLU:HB3	1.79	0.65
1:A:360:PRO:HA	1:A:636:ALA:HB3	1.79	0.65
1:A:987:ILE:HD13	1:A:1294:ILE:HG23	1.77	0.65
1:A:1227:PHE:HA	1:A:1228:TRP:CE3	2.32	0.65
1:B:160:VAL:HG22	1:B:174:VAL:C	2.17	0.65
1:B:163:PHE:N	1:B:163:PHE:CD1	2.65	0.65
1:A:157:ARG:H	1:A:178:ASP:CB	2.10	0.65
1:A:307:VAL:CG1	1:A:313:TYR:HB2	2.27	0.65
1:A:1465:ASN:H	1:A:1465:ASN:ND2	1.95	0.65
1:B:1148:THR:O	1:B:1152:ILE:HG13	1.97	0.65
1:B:1279:ARG:CB	1:B:1284:PHE:HB2	2.27	0.65
1:B:1284:PHE:HD2	1:B:1285:TYR:CE1	2.15	0.65
1:A:1342:LEU:C	1:A:1343:ASN:HD22	2.01	0.64
1:B:123:ASN:ND2	1:B:150:ASP:H	1.95	0.64
1:B:498:HIS:HD2	1:B:516:GLU:HA	1.61	0.64
1:B:1007:SER:HA	1:B:1069:TRP:CD1	2.32	0.64
1:B:1047:LYS:O	1:B:1049:LEU:N	2.30	0.64
1:B:1105:LEU:HA	1:B:1108:VAL:CG1	2.27	0.64
1:B:1218:VAL:CG1	1:B:1226:ARG:HA	2.27	0.64
1:B:1239:VAL:O	1:B:1239:VAL:HG23	1.96	0.64
1:A:536:PRO:HG3	1:A:624:PHE:HE2	1.61	0.64
1:A:982:LEU:HD23	1:A:1309:LEU:HD11	1.78	0.64
1:B:1029:ASN:ND2	1:B:1029:ASN:O	2.30	0.64
1:B:1255:LEU:HD21	1:B:1271:ILE:CG2	2.24	0.64
2:Y:140:LYS:HA	2:Y:228:LEU:HB2	1.79	0.64
2:Y:189:ILE:HG23	2:Y:226:VAL:HG22	1.78	0.64
1:A:169:SER:O	1:A:170:GLU:O	2.15	0.64
1:A:835:ARG:NH2	1:A:905:ILE:HD11	2.13	0.64
1:A:1000:LEU:HD12	1:A:1017:PRO:CG	2.27	0.64
1:A:1274:LEU:HB3	1:A:1297:LEU:HD11	1.78	0.64
1:B:975:ARG:HG3	1:B:1340:VAL:HB	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:976:ILE:HD12	1:B:1362:THR:CG2	2.27	0.64
1:A:1213:LYS:HE3	1:A:1266:TYR:CE2	2.33	0.64
1:B:62:LYS:HD3	1:B:105:GLU:OE2	1.98	0.64
1:B:253:ARG:CZ	1:B:253:ARG:HB2	2.27	0.64
1:B:838:GLN:O	1:B:1486:GLY:N	2.30	0.64
1:B:906:GLY:O	1:B:908:HIS:CE1	2.51	0.64
1:B:515:ARG:HH22	1:B:527:ASN:N	1.96	0.64
1:B:554:LEU:HB3	1:B:642:ASN:OD1	1.97	0.64
1:B:1019:PHE:HE2	1:B:1020:TYR:HE1	1.46	0.64
1:A:517:LYS:HA	1:A:524:GLN:HE22	1.62	0.64
1:A:598:SER:HA	1:A:805:SER:OG	1.98	0.64
1:A:1053:MET:CE	1:A:1086:LEU:HD13	2.26	0.64
1:A:1079:THR:HG21	1:A:1106:TRP:HE3	1.62	0.64
1:B:1104:LEU:HD22	1:B:1152:ILE:HG23	1.79	0.64
1:B:1161:LEU:HB3	1:B:1164:ILE:HG23	1.79	0.64
1:A:1083:LEU:HD11	1:A:1107:LEU:HD11	1.80	0.64
2:X:169:ILE:HG21	2:X:189:ILE:HD13	1.79	0.64
1:B:364:LYS:CD	1:B:364:LYS:N	2.60	0.64
1:B:956:ARG:HG3	1:B:1349:SER:CB	2.27	0.64
1:A:835:ARG:HD3	1:A:903:LEU:O	1.98	0.64
1:A:839:ILE:CG2	1:A:900:VAL:HG23	2.28	0.64
1:A:906:GLY:O	1:A:908:HIS:CE1	2.50	0.64
1:A:1090:ASN:HD22	1:A:1158:ILE:CD1	2.08	0.64
1:A:1379:LEU:HD13	1:A:1493:PHE:CE2	2.33	0.64
1:B:160:VAL:HG23	1:B:175:GLU:HB3	1.78	0.64
1:B:319:ASN:ND2	1:B:347:TYR:CG	2.65	0.64
1:B:653:PHE:HD2	1:B:653:PHE:H	1.43	0.64
1:B:679:LEU:HD22	1:B:738:LEU:HD11	1.80	0.64
1:B:1316:SER:O	1:B:1346:LEU:HD12	1.98	0.64
1:A:31:PHE:HB2	1:A:119:ILE:HB	1.79	0.64
1:A:50:PHE:CG	1:A:109:LYS:HE2	2.33	0.64
1:A:686:ILE:O	1:A:689:LYS:HG2	1.97	0.64
1:B:31:PHE:CZ	1:B:104:LEU:HD13	2.33	0.64
1:B:50:PHE:CG	1:B:109:LYS:HE2	2.32	0.64
1:B:835:ARG:HG2	1:B:835:ARG:NH1	2.12	0.64
1:B:1142:LEU:HD13	1:B:1187:THR:HG22	1.79	0.64
1:B:1162:VAL:HG23	1:B:1163:LYS:N	2.10	0.64
1:B:1379:LEU:HD22	1:B:1493:PHE:CE2	2.32	0.64
1:A:1105:LEU:HA	1:A:1108:VAL:CG1	2.28	0.64
1:B:119:ILE:HG13	1:B:120:THR:N	2.13	0.64
1:B:363:LEU:HD23	1:B:454:ALA:HB3	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:412:ARG:HD2	1:B:415:ASP:CB	2.27	0.64
1:B:502:LEU:O	1:B:540:LEU:HA	1.98	0.64
1:B:641:ASN:O	1:B:644:ASN:N	2.31	0.64
1:B:1213:LYS:HE3	1:B:1266:TYR:CD2	2.33	0.64
1:A:159:THR:HG22	1:A:160:VAL:N	2.14	0.63
1:A:544:TYR:HD1	1:A:544:TYR:H	1.45	0.63
1:B:490:SER:O	1:B:491:PRO:C	2.34	0.63
1:B:493:ILE:HG23	1:B:494:ASP:N	2.13	0.63
1:A:1381:ILE:HD12	1:A:1493:PHE:HB2	1.81	0.63
1:B:85:LEU:O	1:B:86:THR:HB	1.97	0.63
1:A:583:SER:OG	1:A:586:GLN:HB2	1.98	0.63
1:A:856:CYS:HB3	1:A:915:GLU:HB2	1.80	0.63
1:B:42:GLN:HB2	1:B:80:GLN:CG	2.28	0.63
1:B:717:ARG:CD	1:B:1449:LEU:HA	2.29	0.63
1:B:1132:THR:CB	1:B:1134:PRO:HD2	2.28	0.63
1:A:263:ALA:HB3	1:A:292:LEU:HB3	1.81	0.63
1:A:1232:LEU:O	1:A:1233:GLN:HG2	1.99	0.63
1:B:113:LYS:HG3	1:B:114:SER:N	2.13	0.63
1:B:441:ASP:OD2	1:B:441:ASP:N	2.30	0.63
1:A:23:TYR:HE1	1:A:656:ASN:HB2	1.62	0.63
1:A:491:PRO:O	1:A:493:ILE:N	2.32	0.63
1:A:1202:HIS:O	1:A:1203:PRO:C	2.37	0.63
1:A:1255:LEU:HD21	1:A:1271:ILE:CG2	2.28	0.63
1:B:180:ILE:HG21	1:B:599:TRP:CE2	2.34	0.63
1:B:1378:TYR:O	1:B:1406:ALA:HA	1.99	0.63
1:A:386:VAL:C	1:A:410:VAL:HG13	2.19	0.63
1:A:493:ILE:HG23	1:A:494:ASP:N	2.12	0.63
1:A:1113:LEU:HD12	1:A:1117:SER:OG	1.98	0.63
1:B:491:PRO:O	1:B:493:ILE:N	2.32	0.63
1:B:653:PHE:CZ	1:B:660:ASP:CA	2.79	0.63
1:B:839:ILE:HD11	1:B:1483:PHE:CZ	2.34	0.63
1:A:857:VAL:HA	1:A:913:SER:O	1.98	0.63
1:A:1128:LYS:NZ	1:A:1415:SER:HB3	2.14	0.63
1:A:1263:ASP:O	1:A:1265:ASN:N	2.31	0.63
1:B:710:THR:N	1:B:713:GLN:OE1	2.29	0.63
1:B:911:ASN:CG	1:B:924:VAL:HG13	2.19	0.63
1:B:1143:TYR:HE1	1:B:1186:PHE:CZ	2.16	0.63
2:Y:153:PHE:HE1	2:Y:168:LYS:HB3	1.64	0.63
1:A:101:TYR:HE1	1:A:116:ARG:CZ	2.12	0.63
1:A:451:GLY:C	1:A:452:TYR:CD2	2.73	0.63
1:A:710:THR:N	1:A:713:GLN:OE1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:GLY:H	1:A:929:VAL:HB	1.64	0.63
1:A:1380:LYS:HG3	1:A:1405:CYS:SG	2.39	0.63
1:B:295:GLY:C	1:B:296:ILE:HG12	2.19	0.63
1:B:571:LEU:HD21	1:B:600:VAL:HG13	1.81	0.63
1:B:1156:PHE:CD1	1:B:1164:ILE:HD11	2.34	0.63
1:B:1429:PRO:HB2	1:B:1432:ILE:HG13	1.81	0.63
1:A:1050:LYS:O	1:A:1053:MET:HB3	1.98	0.63
2:X:166:ASP:OD2	2:X:201:ILE:HG21	1.99	0.63
1:A:467:ILE:HD12	1:A:484:ILE:CD1	2.29	0.62
2:X:142:TYR:HB2	2:X:145:ASN:HB2	1.80	0.62
1:B:267:ILE:HG12	1:B:327:VAL:HG13	1.81	0.62
1:B:679:LEU:HB3	1:B:738:LEU:HD11	1.81	0.62
1:B:905:ILE:HD13	1:B:931:PRO:HG3	1.80	0.62
1:B:1315:VAL:HG22	1:B:1346:LEU:HD11	1.81	0.62
1:A:730:GLU:O	1:A:734:VAL:HG23	1.99	0.62
1:A:1205:PHE:O	1:A:1209:VAL:HG23	1.99	0.62
1:A:1273:TRP:CE3	1:A:1274:LEU:HD23	2.34	0.62
1:A:1378:TYR:O	1:A:1406:ALA:HA	2.00	0.62
1:B:269:PHE:HB2	1:B:283:MET:HE3	1.81	0.62
1:B:330:ILE:HG22	1:B:337:SER:OG	1.99	0.62
1:A:92:LEU:N	1:A:93:PRO:CD	2.62	0.62
1:A:295:GLY:C	1:A:296:ILE:HG12	2.19	0.62
1:A:307:VAL:HG12	1:A:313:TYR:O	1.98	0.62
1:A:796:THR:HA	1:A:818:LYS:HA	1.81	0.62
1:A:840:GLN:HG2	1:A:899:THR:HG22	1.82	0.62
1:A:1218:VAL:HG12	1:A:1226:ARG:HA	1.79	0.62
1:B:386:VAL:N	1:B:411:THR:HG23	2.14	0.62
1:B:610:TYR:CB	1:B:614:ARG:HD2	2.30	0.62
2:Y:146:LEU:O	2:Y:146:LEU:HD13	2.00	0.62
1:A:701:ASP:O	1:A:704:CYS:HB2	2.00	0.62
2:X:162:LEU:HD12	2:X:165:LEU:HD23	1.80	0.62
1:B:835:ARG:HD3	1:B:903:LEU:O	1.99	0.62
1:A:315:LEU:CB	1:A:318:LEU:HB2	2.30	0.62
1:A:1162:VAL:HG23	1:A:1163:LYS:N	2.13	0.62
1:A:1248:VAL:HG21	1:A:1277:GLU:HG2	1.82	0.62
1:A:315:LEU:O	1:A:316:GLU:O	2.17	0.62
1:A:1003:LEU:HD22	1:A:1004:PRO:HD2	1.80	0.62
1:B:133:PRO:O	1:B:134:VAL:CG2	2.43	0.62
1:B:361:LEU:O	1:B:454:ALA:HA	1.99	0.62
1:B:375:VAL:HG12	1:B:383:VAL:HG13	1.81	0.62
1:B:942:VAL:HG21	1:B:957:LYS:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:367:ILE:HG23	1:A:368:PRO:HD2	1.81	0.62
1:A:717:ARG:CD	1:A:1449:LEU:HA	2.30	0.62
1:B:536:PRO:HG3	1:B:624:PHE:HE2	1.63	0.62
1:A:640:LEU:H	1:A:644:ASN:HB3	1.65	0.62
1:A:909:ASN:H	1:A:926:THR:HG22	1.65	0.62
1:A:1081:PHE:CE1	1:A:1288:GLN:NE2	2.66	0.62
1:A:1316:SER:O	1:A:1346:LEU:HD12	1.99	0.62
2:X:140:LYS:O	2:X:146:LEU:HD23	2.00	0.62
1:B:1097:GLN:O	1:B:1099:SER:N	2.33	0.62
1:B:1202:HIS:O	1:B:1203:PRO:C	2.37	0.62
1:B:1279:ARG:CG	1:B:1284:PHE:HB2	2.30	0.62
1:A:364:LYS:H	1:A:364:LYS:HD2	1.62	0.62
1:A:490:SER:O	1:A:491:PRO:C	2.36	0.62
1:A:932:GLU:OE1	1:A:932:GLU:N	2.33	0.62
1:A:73:LEU:HD23	1:A:73:LEU:N	2.14	0.62
1:A:124:GLY:O	1:A:125:PHE:CD2	2.53	0.62
1:A:354:LEU:H	1:A:354:LEU:HD23	1.64	0.62
1:A:1255:LEU:CD2	1:A:1271:ILE:HG22	2.29	0.62
2:X:153:PHE:CD2	2:X:154:SER:N	2.68	0.62
1:B:829:ILE:CG1	1:B:925:LYS:HG2	2.29	0.62
1:B:1050:LYS:O	1:B:1053:MET:HB3	1.99	0.62
1:A:119:ILE:HG13	1:A:120:THR:N	2.15	0.61
1:A:1127:ILE:H	1:A:1127:ILE:HD12	1.64	0.61
1:A:1245:ALA:HB2	1:A:1501:PRO:HD2	1.82	0.61
1:B:131:ASP:CG	1:B:132:LYS:N	2.53	0.61
1:B:1076:THR:CG2	1:B:1120:GLU:HA	2.30	0.61
1:A:59:TYR:CB	1:A:60:PRO:CD	2.76	0.61
1:A:364:LYS:HG2	1:A:465:LEU:O	2.00	0.61
1:A:635:GLY:HA2	1:A:672:ILE:CG2	2.30	0.61
1:A:718:ILE:HG12	1:A:1446:VAL:O	2.01	0.61
1:A:1379:LEU:HD22	1:A:1493:PHE:CE2	2.35	0.61
1:B:214:THR:HG22	1:B:215:ALA:N	2.15	0.61
1:B:947:ARG:HB2	1:B:949:ILE:HG13	1.82	0.61
1:B:1079:THR:HG21	1:B:1106:TRP:HE3	1.64	0.61
1:B:1337:PRO:O	1:B:1338:VAL:HG23	2.00	0.61
1:B:1432:ILE:O	1:B:1432:ILE:HG22	2.00	0.61
1:A:866:CYS:O	1:A:900:VAL:HG12	2.00	0.61
1:A:994:GLN:HE22	1:A:998:ASN:CB	2.02	0.61
1:A:1313:ILE:HG22	1:A:1314:ASP:N	2.16	0.61
1:A:1434:ALA:HB1	1:A:1477:PHE:HD1	1.63	0.61
1:B:30:ILE:CG2	1:B:31:PHE:N	2.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:385:GLY:N	1:B:411:THR:HG23	2.16	0.61
1:B:563:ILE:HG13	1:B:564:GLU:N	2.14	0.61
1:B:641:ASN:H	1:B:644:ASN:HB3	1.64	0.61
1:B:1146:ALA:O	1:B:1150:ILE:HG13	2.00	0.61
1:B:1425:ASP:HB3	1:B:1494:THR:HG23	1.82	0.61
2:Y:178:GLY:O	2:Y:184:THR:HG21	1.99	0.61
1:B:59:TYR:CB	1:B:60:PRO:CD	2.77	0.61
1:B:628:GLU:HG3	1:B:628:GLU:O	2.01	0.61
1:B:855:PHE:HA	1:B:915:GLU:O	1.99	0.61
1:B:909:ASN:HA	1:B:925:LYS:O	2.00	0.61
1:B:1080:ALA:O	1:B:1083:LEU:N	2.33	0.61
1:B:1380:LYS:HE3	1:B:1405:CYS:SG	2.41	0.61
1:A:265:VAL:HG23	1:A:292:LEU:H	1.66	0.61
1:A:362:PHE:HA	1:A:455:ILE:H	1.64	0.61
1:A:629:LYS:HD3	1:A:629:LYS:N	2.14	0.61
1:A:1161:LEU:HD12	1:A:1162:VAL:N	2.15	0.61
1:A:1226:ARG:CZ	1:A:1266:TYR:CE1	2.84	0.61
1:B:599:TRP:HB2	1:B:804:ILE:O	2.01	0.61
1:A:153:LYS:HB3	1:A:154:PRO:HD2	1.83	0.61
1:A:1019:PHE:HE2	1:A:1020:TYR:HE1	1.48	0.61
1:A:1161:LEU:HD12	1:A:1162:VAL:HG22	1.81	0.61
1:A:1213:LYS:HE3	1:A:1266:TYR:CD2	2.36	0.61
1:A:1290:THR:O	1:A:1294:ILE:HG12	1.99	0.61
1:A:1434:ALA:HB1	1:A:1477:PHE:CE1	2.35	0.61
2:X:146:LEU:HD22	2:X:146:LEU:C	2.18	0.61
1:B:92:LEU:N	1:B:93:PRO:CD	2.63	0.61
1:B:101:TYR:HE1	1:B:116:ARG:NE	1.97	0.61
1:B:322:TYR:N	1:B:322:TYR:HD2	1.98	0.61
1:B:464:TYR:H	1:B:491:PRO:HD3	1.65	0.61
1:A:85:LEU:HD22	1:A:85:LEU:N	2.16	0.61
1:A:352:TYR:O	1:A:448:ALA:HB2	2.00	0.61
1:A:1104:LEU:HD22	1:A:1152:ILE:HG23	1.82	0.61
1:A:1435:ASN:O	1:A:1438:ASP:N	2.30	0.61
1:B:73:LEU:HD12	1:B:79:PHE:HD2	1.65	0.61
1:B:92:LEU:H	1:B:93:PRO:HD3	1.65	0.61
1:B:100:SER:O	1:B:101:TYR:HB2	2.01	0.61
1:B:161:LEU:HD11	1:B:185:PHE:CD1	2.35	0.61
1:B:362:PHE:HB3	1:B:455:ILE:O	2.00	0.61
1:B:1157:ASP:O	1:B:1160:PRO:HD3	2.01	0.61
1:B:1423:VAL:HG21	1:B:1496:TYR:CE1	2.35	0.61
1:B:1423:VAL:CG2	1:B:1496:TYR:CE1	2.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:166:ASP:OD2	2:Y:201:ILE:HG21	2.01	0.61
1:A:364:LYS:CD	1:A:364:LYS:N	2.61	0.61
1:A:1019:PHE:CE2	1:A:1020:TYR:CE1	2.88	0.61
1:B:610:TYR:HB3	1:B:614:ARG:HD2	1.83	0.61
1:B:1279:ARG:O	1:B:1280:TYR:C	2.38	0.61
1:A:106:VAL:HG12	1:A:107:VAL:N	2.16	0.61
1:A:131:ASP:OD1	1:A:132:LYS:N	2.33	0.61
1:A:293:ILE:N	1:A:296:ILE:O	2.22	0.61
1:A:386:VAL:N	1:A:411:THR:HG23	2.11	0.61
1:A:946:PRO:HD2	1:A:947:ARG:H	1.66	0.61
1:A:1401:ARG:HB2	1:A:1478:ARG:HG2	1.83	0.61
1:A:1496:TYR:O	1:A:1496:TYR:HD1	1.83	0.61
2:X:179:LEU:HD12	2:X:180:TYR:H	1.66	0.61
1:B:349:LEU:C	1:B:349:LEU:HD22	2.20	0.61
1:B:535:VAL:CG2	1:B:536:PRO:HD3	2.17	0.61
1:B:820:PHE:HZ	1:B:848:TYR:HB2	1.64	0.61
1:A:73:LEU:HD12	1:A:79:PHE:HD2	1.65	0.61
1:A:103:TYR:HA	1:A:115:LYS:O	2.01	0.61
1:A:113:LYS:HG3	1:A:114:SER:N	2.15	0.61
1:A:271:ILE:HG21	1:A:313:TYR:CE1	2.36	0.61
2:X:183:THR:HB	2:X:230:GLN:HB3	1.83	0.61
1:B:352:TYR:O	1:B:448:ALA:HB2	2.01	0.61
1:B:361:LEU:HB3	1:B:453:ARG:O	2.01	0.61
1:B:730:GLU:O	1:B:734:VAL:HG23	2.00	0.61
1:A:243:PHE:CE1	1:A:316:GLU:HG2	2.35	0.60
1:A:976:ILE:HG21	1:A:1280:TYR:HE1	1.65	0.60
1:B:321:LYS:C	1:B:322:TYR:HD2	2.05	0.60
1:B:386:VAL:C	1:B:410:VAL:HG13	2.21	0.60
1:B:982:LEU:CD2	1:B:1309:LEU:HD11	2.26	0.60
1:B:1063:ASP:O	1:B:1064:TYR:HB2	2.01	0.60
1:B:1381:ILE:HD13	1:B:1509:TYR:CE1	2.36	0.60
2:Y:143:GLY:O	2:Y:145:ASN:N	2.33	0.60
1:B:371:ILE:HD12	1:B:390:LEU:CD2	2.31	0.60
1:B:1313:ILE:HG22	1:B:1314:ASP:N	2.16	0.60
1:A:1076:THR:HG21	1:A:1120:GLU:HA	1.83	0.60
1:A:1278:GLN:CA	1:A:1278:GLN:HE21	2.13	0.60
1:B:307:VAL:HG11	1:B:313:TYR:HB2	1.83	0.60
1:B:438:ASP:O	1:B:439:ALA:C	2.39	0.60
1:B:1202:HIS:CD2	1:B:1204:GLN:H	2.06	0.60
1:A:498:HIS:HB3	1:A:514:THR:HG21	1.83	0.60
1:A:948:GLY:HA2	1:A:952:THR:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:LYS:O	1:B:30:ILE:HD13	2.02	0.60
1:B:113:LYS:HG3	1:B:114:SER:H	1.66	0.60
1:B:451:GLY:C	1:B:452:TYR:CD2	2.75	0.60
1:B:835:ARG:HH21	1:B:905:ILE:HD11	1.64	0.60
2:Y:179:LEU:HD12	2:Y:180:TYR:H	1.67	0.60
1:A:250:ILE:HG13	1:A:250:ILE:O	2.01	0.60
1:A:505:SER:HB3	1:A:510:ILE:HD11	1.82	0.60
1:A:855:PHE:CZ	1:A:886:GLN:CB	2.73	0.60
1:B:243:PHE:CE2	1:B:316:GLU:CG	2.85	0.60
1:B:840:GLN:HG2	1:B:899:THR:CG2	2.25	0.60
1:A:242:ASN:ND2	1:A:242:ASN:N	2.49	0.60
1:A:352:TYR:HD1	1:A:375:VAL:CG1	2.14	0.60
1:A:802:ILE:HD11	1:A:804:ILE:HG23	1.84	0.60
1:A:857:VAL:HG12	1:A:914:LEU:HB3	1.84	0.60
1:A:1023:HIS:O	1:A:1027:THR:HB	2.01	0.60
1:A:1146:ALA:O	1:A:1150:ILE:HG13	2.01	0.60
2:X:178:GLY:O	2:X:184:THR:HG21	2.01	0.60
1:B:308:LYS:HG2	1:B:314:SER:HA	1.83	0.60
1:B:354:LEU:HD12	1:B:435:VAL:HG11	1.82	0.60
1:B:735:ALA:HB1	1:B:754:MET:HE1	1.81	0.60
1:B:982:LEU:HD23	1:B:1309:LEU:CD1	2.25	0.60
1:A:653:PHE:H	1:A:653:PHE:HD2	1.41	0.60
1:B:185:PHE:HB3	1:B:186:PRO:CD	2.31	0.60
1:B:392:ALA:CB	1:B:404:LEU:HD12	2.32	0.60
1:B:511:HIS:HE2	1:B:531:THR:HG21	1.66	0.60
1:B:605:VAL:HG12	1:B:606:ASP:N	2.16	0.60
1:B:903:LEU:HD22	1:B:903:LEU:N	2.16	0.60
1:A:269:PHE:HB2	1:A:283:MET:CE	2.32	0.60
1:A:394:THR:HG23	1:A:395:ILE:N	2.16	0.60
1:A:653:PHE:N	1:A:653:PHE:HD2	1.94	0.60
1:A:1028:GLY:O	1:A:1029:ASN:C	2.40	0.60
1:B:29:LYS:HE2	1:B:666:ASP:HB3	1.83	0.60
1:B:571:LEU:HG	1:B:812:ALA:HB2	1.84	0.60
1:A:137:PRO:O	1:A:138:ASP:HB2	2.01	0.60
1:A:257:ASN:OD1	1:A:893:SER:O	2.20	0.60
1:A:362:PHE:HB3	1:A:455:ILE:O	2.02	0.60
1:A:385:GLY:N	1:A:411:THR:HG23	2.16	0.60
1:A:450:GLU:HB3	1:A:452:TYR:CE2	2.37	0.60
1:A:927:LEU:HD22	1:A:929:VAL:CG2	2.32	0.60
2:X:166:ASP:OD1	2:X:201:ILE:HD13	2.01	0.60
1:B:23:TYR:CE1	1:B:656:ASN:HB2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:ARG:H	1:B:178:ASP:CB	2.12	0.60
1:B:354:LEU:N	1:B:354:LEU:HD22	2.16	0.60
1:B:829:ILE:HG22	1:B:830:PRO:HD2	1.83	0.60
1:A:249:THR:HG23	1:A:298:GLN:NE2	2.16	0.60
1:A:679:LEU:HB3	1:A:738:LEU:HD11	1.83	0.60
1:A:837:GLU:OE2	1:A:1488:LEU:HA	2.02	0.60
1:A:1144:LEU:O	1:A:1148:THR:HG22	2.02	0.60
1:B:349:LEU:HD22	1:B:349:LEU:O	2.02	0.60
1:B:412:ARG:HD3	1:B:414:ASP:OD1	2.02	0.60
1:B:961:TYR:OH	1:B:1343:ASN:ND2	2.35	0.60
1:B:1250:THR:O	1:B:1253:TYR:N	2.35	0.60
1:A:464:TYR:H	1:A:491:PRO:HD3	1.67	0.59
1:A:936:ARG:HB2	1:A:1364:VAL:HG22	1.83	0.59
1:A:968:VAL:CG1	1:A:1368:THR:HG22	2.12	0.59
1:B:66:TYR:CE1	1:B:90:LYS:CG	2.84	0.59
1:B:373:VAL:HG23	1:B:374:GLN:N	2.17	0.59
1:B:457:TYR:C	1:B:457:TYR:CD2	2.76	0.59
1:B:906:GLY:H	1:B:929:VAL:HB	1.66	0.59
1:B:1180:LEU:O	1:B:1182:ALA:N	2.34	0.59
1:A:238:ILE:HG12	1:A:246:PHE:CE1	2.37	0.59
1:A:647:HIS:O	1:A:649:ALA:N	2.34	0.59
1:B:244:LYS:C	1:B:302:ASP:HA	2.23	0.59
1:B:322:TYR:N	1:B:322:TYR:CD2	2.70	0.59
1:B:1232:LEU:O	1:B:1233:GLN:HG2	2.02	0.59
1:A:888:VAL:HG12	1:A:894:HIS:HB2	1.84	0.59
2:X:136:LEU:HD21	2:X:153:PHE:HB2	1.84	0.59
1:B:239:GLY:O	1:B:241:LYS:N	2.36	0.59
1:B:588:VAL:CG1	1:B:790:LEU:HD11	2.31	0.59
1:B:1024:TYR:HD2	1:B:1025:LEU:N	2.01	0.59
1:B:1206:ARG:CG	1:B:1206:ARG:NH1	2.61	0.59
1:B:1434:ALA:HB1	1:B:1477:PHE:CD1	2.37	0.59
1:B:1465:ASN:H	1:B:1465:ASN:ND2	1.98	0.59
1:A:244:LYS:C	1:A:302:ASP:HA	2.23	0.59
1:A:1379:LEU:HD13	1:A:1493:PHE:CD2	2.38	0.59
1:A:1421:HIS:HE1	1:A:1498:TYR:CD2	2.20	0.59
1:B:163:PHE:CD2	1:B:188:PHE:CD2	2.91	0.59
1:B:250:ILE:HG21	1:B:327:VAL:HG21	1.83	0.59
1:B:1221:ASN:HA	1:B:1222:PRO:C	2.21	0.59
1:B:1401:ARG:HB2	1:B:1478:ARG:HG2	1.83	0.59
1:A:1093:VAL:HG12	1:A:1095:GLN:NE2	2.17	0.59
1:B:54:ILE:HG23	1:B:106:VAL:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:TYR:HE1	1:B:116:ARG:CZ	2.15	0.59
1:B:208:ASP:O	1:B:209:PHE:HB2	2.01	0.59
1:B:855:PHE:CE1	1:B:886:GLN:CB	2.84	0.59
1:B:994:GLN:HE22	1:B:998:ASN:CB	2.11	0.59
1:B:1054:LEU:O	1:B:1056:ILE:N	2.36	0.59
1:A:199:TRP:HB2	1:A:217:PHE:O	2.02	0.59
1:A:249:THR:CG2	1:A:298:GLN:HE21	2.15	0.59
1:A:859:MET:HB2	1:A:912:PHE:HE1	1.67	0.59
1:A:1278:GLN:HE21	1:A:1278:GLN:N	2.00	0.59
1:B:1196:SER:HB2	1:B:1257:THR:HG23	1.83	0.59
1:A:185:PHE:HB3	1:A:186:PRO:CD	2.31	0.59
1:A:361:LEU:HB3	1:A:453:ARG:O	2.01	0.59
1:A:457:TYR:HD2	1:A:457:TYR:C	2.06	0.59
1:A:979:VAL:HG13	1:A:1359:VAL:HG22	1.84	0.59
1:A:1053:MET:HE3	1:A:1086:LEU:HD13	1.85	0.59
1:A:1495:VAL:HG13	1:A:1495:VAL:O	2.03	0.59
1:B:976:ILE:O	1:B:1361:VAL:HG22	2.02	0.59
1:B:1090:ASN:ND2	1:B:1158:ILE:HG21	2.18	0.59
1:B:1145:THR:O	1:B:1149:VAL:HG23	2.03	0.59
1:A:324:TYR:C	1:A:324:TYR:CD2	2.75	0.59
1:A:786:LEU:N	1:A:786:LEU:HD23	2.17	0.59
1:A:994:GLN:NE2	1:A:998:ASN:HB3	2.02	0.59
1:A:1132:THR:CG2	1:A:1134:PRO:HD2	2.33	0.59
1:B:41:ILE:HG22	1:B:81:ASN:O	2.02	0.59
1:B:837:GLU:OE2	1:B:1488:LEU:HB2	2.02	0.59
1:A:610:TYR:CB	1:A:614:ARG:HD2	2.32	0.59
1:A:838:GLN:O	1:A:1486:GLY:N	2.34	0.59
1:A:1304:VAL:CG1	1:A:1305:LYS:N	2.66	0.59
1:B:269:PHE:HB2	1:B:283:MET:CE	2.32	0.59
1:B:271:ILE:HD11	1:B:307:VAL:HG22	1.83	0.59
1:B:639:GLY:N	1:B:645:VAL:HG22	2.16	0.59
1:B:902:PRO:C	1:B:903:LEU:HD13	2.23	0.59
1:A:30:ILE:CG2	1:A:31:PHE:N	2.65	0.59
1:A:44:TYR:CE1	1:A:497:THR:HG21	2.38	0.59
1:A:902:PRO:C	1:A:903:LEU:HD13	2.23	0.59
1:B:485:ILE:CG2	1:B:487:THR:HG23	2.33	0.59
1:B:553:GLU:OE1	1:B:555:VAL:HG23	2.03	0.59
1:B:988:LEU:HD23	1:B:1021:VAL:HG13	1.84	0.59
1:B:1255:LEU:HD12	1:B:1255:LEU:O	2.01	0.59
1:A:100:SER:O	1:A:101:TYR:HB2	2.03	0.58
1:A:348:VAL:HG12	1:A:349:LEU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1105:LEU:O	1:A:1109:GLU:HG3	2.03	0.58
1:A:1228:TRP:CE3	1:A:1228:TRP:N	2.71	0.58
1:B:98:PRO:HB2	1:B:99:VAL:HG23	1.85	0.58
1:B:161:LEU:CG	1:B:185:PHE:CE1	2.86	0.58
1:B:227:PHE:O	1:B:338:GLU:HG2	2.03	0.58
1:B:263:ALA:HB3	1:B:292:LEU:HB3	1.84	0.58
1:B:293:ILE:N	1:B:296:ILE:O	2.28	0.58
1:B:1304:VAL:CG1	1:B:1305:LYS:N	2.66	0.58
1:A:239:GLY:O	1:A:241:LYS:N	2.36	0.58
1:A:835:ARG:NE	1:A:905:ILE:HD11	2.17	0.58
1:A:936:ARG:NH1	1:A:1002:HIS:CE1	2.71	0.58
1:A:975:ARG:HG3	1:A:1340:VAL:HB	1.84	0.58
1:A:1226:ARG:NE	1:A:1266:TYR:CE1	2.71	0.58
1:A:1255:LEU:HD12	1:A:1255:LEU:O	2.03	0.58
1:A:1401:ARG:HB2	1:A:1478:ARG:HA	1.84	0.58
1:B:947:ARG:C	1:B:949:ILE:H	2.05	0.58
1:A:571:LEU:HD12	1:A:571:LEU:C	2.22	0.58
1:B:265:VAL:HG23	1:B:292:LEU:H	1.68	0.58
1:B:491:PRO:C	1:B:493:ILE:N	2.55	0.58
1:B:1108:VAL:HG13	1:B:1109:GLU:H	1.68	0.58
1:A:52:ALA:HB2	1:A:73:LEU:HD21	1.86	0.58
1:A:457:TYR:C	1:A:457:TYR:CD2	2.77	0.58
1:A:594:THR:O	1:A:782:ARG:HG2	2.03	0.58
1:A:981:GLY:O	1:A:982:LEU:HB2	2.03	0.58
1:A:1143:TYR:HE1	1:A:1186:PHE:CZ	2.20	0.58
1:B:635:GLY:O	1:B:673:LEU:HB2	2.03	0.58
1:B:1008:ALA:HB2	1:B:1059:TYR:CD2	2.39	0.58
1:A:330:ILE:HG22	1:A:337:SER:HA	1.85	0.58
1:A:475:ALA:C	1:A:476:LEU:HD23	2.24	0.58
1:A:641:ASN:O	1:A:644:ASN:N	2.36	0.58
1:A:1432:ILE:O	1:A:1432:ILE:HG22	2.03	0.58
1:B:124:GLY:HA3	1:B:148:LEU:O	2.03	0.58
1:A:315:LEU:HD12	1:A:318:LEU:HD12	1.85	0.58
1:A:498:HIS:HD2	1:A:516:GLU:HA	1.66	0.58
1:A:758:LEU:C	1:A:760:VAL:H	2.07	0.58
1:A:1007:SER:HA	1:A:1069:TRP:CD1	2.39	0.58
1:B:23:TYR:HE1	1:B:656:ASN:H	1.50	0.58
1:B:42:GLN:CG	1:B:80:GLN:HE21	2.13	0.58
1:B:444:GLU:O	1:B:445:GLU:C	2.39	0.58
1:B:768:TYR:CE2	1:B:770:PRO:HA	2.38	0.58
1:B:1003:LEU:N	1:B:1003:LEU:HD23	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1255:LEU:HD22	1:B:1270:VAL:CG1	2.30	0.58
2:Y:192:ASN:O	2:Y:221:ILE:HG23	2.02	0.58
1:A:160:VAL:HG23	1:A:175:GLU:CB	2.33	0.58
1:A:290:THR:O	1:A:290:THR:HG22	2.04	0.58
1:A:505:SER:HB3	1:A:510:ILE:CD1	2.34	0.58
1:A:628:GLU:O	1:A:629:LYS:HD3	2.04	0.58
1:A:1228:TRP:N	1:A:1228:TRP:HE3	2.01	0.58
1:A:1279:ARG:O	1:A:1280:TYR:C	2.41	0.58
1:B:457:TYR:C	1:B:457:TYR:HD2	2.07	0.58
1:B:702:GLY:HA2	1:B:728:PHE:CD1	2.37	0.58
1:B:1226:ARG:CZ	1:B:1266:TYR:CE1	2.87	0.58
1:A:161:LEU:HD11	1:A:185:PHE:CD1	2.39	0.58
1:A:576:SER:CB	1:A:577:PRO:HD3	2.33	0.58
1:A:794:LEU:O	1:A:795:THR:HG23	2.03	0.58
1:A:1368:THR:O	1:A:1508:PHE:HE2	1.87	0.58
1:B:123:ASN:O	1:B:211:THR:HG21	2.04	0.58
1:B:140:SER:OG	1:B:187:ASP:HB3	2.04	0.58
1:B:307:VAL:CG1	1:B:313:TYR:HB2	2.33	0.58
1:B:940:SER:HG	1:B:1361:VAL:HG12	1.66	0.58
1:A:129:HIS:HD2	1:A:130:THR:O	1.87	0.58
1:A:502:LEU:O	1:A:540:LEU:HA	2.04	0.58
1:A:1080:ALA:HA	1:A:1083:LEU:HD12	1.86	0.58
1:B:27:ALA:O	1:B:28:PRO:O	2.22	0.58
1:B:256:TYR:O	1:B:257:ASN:ND2	2.37	0.58
1:B:494:ASP:O	1:B:496:ILE:N	2.31	0.58
1:B:1244:THR:HG23	1:B:1502:ASP:OD2	2.03	0.58
1:B:1438:ASP:O	1:B:1441:ALA:HB3	2.04	0.58
1:A:1255:LEU:HB2	1:A:1270:VAL:CG1	2.30	0.58
2:X:153:PHE:CE1	2:X:168:LYS:HB3	2.39	0.58
1:B:30:ILE:CG2	1:B:31:PHE:H	2.17	0.58
1:B:156:LYS:O	1:B:157:ARG:CG	2.48	0.58
1:A:31:PHE:HZ	1:A:104:LEU:HD22	1.69	0.57
1:A:363:LEU:HD21	1:A:431:LEU:HB2	1.86	0.57
1:B:141:VAL:HG23	1:B:190:ILE:HD11	1.84	0.57
1:B:952:THR:OG1	1:B:953:ILE:N	2.37	0.57
1:A:290:THR:O	1:A:290:THR:CG2	2.51	0.57
1:A:319:ASN:C	1:A:320:ASN:HD22	2.08	0.57
1:A:823:VAL:HG13	1:A:846:TYR:O	2.04	0.57
1:A:1047:LYS:O	1:A:1049:LEU:N	2.37	0.57
1:B:284:GLN:NE2	1:B:310:LEU:HD22	2.18	0.57
1:B:1019:PHE:CD2	1:B:1020:TYR:CD1	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:VAL:HG11	1:A:543:TYR:OH	2.04	0.57
1:A:1096:ASN:C	1:A:1096:ASN:HD22	2.08	0.57
1:B:86:THR:O	1:B:86:THR:HG23	2.05	0.57
1:B:814:THR:OG1	1:B:815:VAL:N	2.36	0.57
1:B:1334:LEU:H	1:B:1334:LEU:CD2	2.17	0.57
1:B:1370:THR:HG22	1:B:1370:THR:O	2.03	0.57
1:B:1408:TYR:CD1	1:B:1409:LYS:N	2.72	0.57
1:A:30:ILE:CG2	1:A:31:PHE:H	2.17	0.57
1:A:271:ILE:HD11	1:A:307:VAL:HG22	1.85	0.57
1:A:443:PRO:HG2	1:A:446:ASN:OD1	2.04	0.57
1:A:1083:LEU:CD1	1:A:1107:LEU:HD11	2.34	0.57
1:B:154:PRO:HB3	1:B:180:ILE:O	2.04	0.57
1:B:1049:LEU:CD2	1:B:1089:VAL:HG13	2.35	0.57
1:B:1183:GLN:O	1:B:1232:LEU:HD22	2.04	0.57
1:B:1495:VAL:O	1:B:1495:VAL:HG13	2.05	0.57
1:A:41:ILE:HG22	1:A:81:ASN:O	2.04	0.57
1:A:388:VAL:O	1:A:420:PHE:HZ	1.88	0.57
1:A:528:ILE:HD12	1:A:528:ILE:N	2.15	0.57
1:A:686:ILE:CG2	1:A:689:LYS:HE3	2.35	0.57
1:A:1320:LYS:HD2	1:A:1321:GLY:H	1.70	0.57
1:B:478:VAL:CG1	1:B:566:LYS:HD3	2.35	0.57
1:B:786:LEU:N	1:B:786:LEU:HD23	2.19	0.57
1:B:1024:TYR:C	1:B:1024:TYR:HD2	2.08	0.57
1:A:124:GLY:C	1:A:125:PHE:CG	2.78	0.57
1:A:128:ILE:HG13	1:A:215:ALA:HB2	1.85	0.57
1:A:284:GLN:N	1:A:284:GLN:OE1	2.37	0.57
1:A:367:ILE:HD13	1:A:466:TYR:CD2	2.39	0.57
1:A:415:ASP:CG	1:A:417:VAL:HB	2.25	0.57
1:A:503:ILE:HG12	1:A:540:LEU:HB3	1.85	0.57
1:A:634:CYS:SG	1:A:635:GLY:N	2.78	0.57
1:A:1069:TRP:HE1	1:A:1463:GLN:NE2	2.03	0.57
1:A:1323:LEU:HD12	1:A:1324:HIS:N	2.16	0.57
1:A:1423:VAL:CG2	1:A:1496:TYR:CE1	2.87	0.57
1:A:1465:ASN:ND2	1:A:1465:ASN:N	2.53	0.57
1:B:412:ARG:CD	1:B:415:ASP:HB2	2.31	0.57
1:B:415:ASP:OD2	1:B:417:VAL:HB	2.03	0.57
1:B:576:SER:CB	1:B:577:PRO:HD3	2.34	0.57
1:B:589:SER:HB2	1:B:785:GLN:HE21	1.68	0.57
1:B:823:VAL:HG13	1:B:846:TYR:O	2.04	0.57
1:B:1342:LEU:N	1:B:1342:LEU:HD23	2.19	0.57
1:B:1381:ILE:HD12	1:B:1493:PHE:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:153:PHE:CD2	2:Y:154:SER:N	2.72	0.57
1:A:634:CYS:SG	1:A:672:ILE:HG22	2.44	0.57
1:A:693:SER:O	1:A:696:LYS:HB3	2.05	0.57
1:A:1076:THR:HG22	1:A:1120:GLU:OE2	2.03	0.57
1:B:1133:LEU:HD12	1:B:1133:LEU:N	2.19	0.57
1:A:24:VAL:HA	1:A:655:THR:OG1	2.04	0.57
1:A:208:ASP:O	1:A:209:PHE:CB	2.53	0.57
1:A:364:LYS:HD2	1:A:364:LYS:N	2.17	0.57
1:A:719:SER:HB2	1:A:1123:GLN:NE2	2.20	0.57
1:A:1100:ILE:O	1:A:1103:SER:HB2	2.03	0.57
1:A:1279:ARG:CD	1:A:1284:PHE:CG	2.81	0.57
1:B:27:ALA:O	1:B:652:THR:O	2.23	0.57
1:B:77:ASN:ND2	1:B:81:ASN:ND2	2.52	0.57
1:B:157:ARG:O	1:B:178:ASP:HB2	2.05	0.57
1:B:774:LEU:HD11	1:B:788:PHE:CZ	2.40	0.57
1:B:1039:LEU:O	1:B:1042:LYS:HB3	2.05	0.57
1:B:1056:ILE:O	1:B:1058:SER:N	2.38	0.57
1:B:1490:PRO:HB3	1:B:1509:TYR:O	2.04	0.57
1:A:61:ASP:O	1:A:63:LYS:N	2.36	0.57
1:A:132:LYS:NZ	1:A:139:GLN:HE22	2.03	0.57
1:A:173:MET:O	1:A:174:VAL:HB	2.05	0.57
1:A:604:ALA:O	1:A:772:SER:HB3	2.04	0.57
1:A:829:ILE:CG1	1:A:925:LYS:HG2	2.35	0.57
1:B:386:VAL:CG2	1:B:411:THR:HG21	2.31	0.57
1:B:1379:LEU:HD13	1:B:1493:PHE:CD2	2.39	0.57
1:B:1423:VAL:CG2	1:B:1496:TYR:HE1	2.18	0.57
1:B:1435:ASN:HB3	1:B:1438:ASP:CB	2.33	0.57
1:A:98:PRO:HB2	1:A:99:VAL:HG23	1.86	0.57
1:A:222:TYR:OH	1:A:224:LEU:HD22	2.05	0.57
1:A:227:PHE:HZ	1:A:329:VAL:O	1.88	0.57
1:A:834:VAL:HG11	1:A:1489:SER:OG	2.05	0.57
1:A:1008:ALA:N	1:A:1068:VAL:O	2.37	0.57
1:A:1274:LEU:O	1:A:1276:GLU:N	2.38	0.57
1:A:1370:THR:O	1:A:1370:THR:HG22	2.04	0.57
1:B:367:ILE:HG23	1:B:368:PRO:HD2	1.86	0.57
1:B:602:LEU:HB2	1:B:774:LEU:O	2.05	0.57
1:B:707:ASN:HB3	1:B:739:ARG:HH12	1.69	0.57
1:A:84:ILE:HD13	2:X:135:HIS:CD2	2.40	0.56
1:A:298:GLN:O	1:A:299:VAL:HG13	2.04	0.56
1:A:304:GLU:O	1:A:305:THR:O	2.22	0.56
1:A:814:THR:OG1	1:A:815:VAL:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1156:PHE:CD1	1:A:1164:ILE:HD11	2.39	0.56
1:A:1186:PHE:CD1	1:A:1250:THR:HG22	2.37	0.56
1:A:1307:LEU:O	1:A:1308:ARG:C	2.43	0.56
1:B:42:GLN:CD	1:B:543:TYR:HH	2.09	0.56
1:B:234:GLU:HB2	1:B:247:GLU:H	1.69	0.56
1:B:303:SER:HB3	1:B:347:TYR:OH	2.05	0.56
1:B:422:LEU:H	1:B:422:LEU:HD12	1.70	0.56
1:B:451:GLY:O	1:B:452:TYR:CD2	2.58	0.56
1:B:758:LEU:C	1:B:760:VAL:H	2.07	0.56
1:B:1027:THR:HG22	1:B:1028:GLY:N	2.20	0.56
1:A:465:LEU:HD13	1:A:544:TYR:CE1	2.40	0.56
1:A:614:ARG:NH2	1:A:798:GLU:OE2	2.38	0.56
1:A:829:ILE:HG13	1:A:925:LYS:HG2	1.87	0.56
1:A:1206:ARG:HG3	1:A:1206:ARG:NH1	2.15	0.56
1:B:169:SER:O	1:B:170:GLU:O	2.23	0.56
1:B:393:GLN:O	1:B:431:LEU:HD23	2.05	0.56
1:B:592:MET:HB3	1:B:780:VAL:HG11	1.87	0.56
1:B:835:ARG:CG	1:B:835:ARG:NH1	2.67	0.56
1:B:1202:HIS:HD2	1:B:1204:GLN:N	1.93	0.56
1:B:1320:LYS:HG2	1:B:1342:LEU:HD12	1.86	0.56
1:B:1509:TYR:O	1:B:1509:TYR:CD2	2.58	0.56
1:A:123:ASN:ND2	1:A:150:ASP:H	2.02	0.56
1:A:364:LYS:H	1:A:364:LYS:HD3	1.68	0.56
1:A:544:TYR:HE1	1:A:555:VAL:HG12	1.70	0.56
1:A:1056:ILE:O	1:A:1057:MET:C	2.43	0.56
1:A:1080:ALA:HA	1:A:1083:LEU:HB2	1.86	0.56
1:A:1100:ILE:HG21	1:A:1158:ILE:HD12	1.86	0.56
1:A:1193:TYR:CD1	1:A:1256:LEU:HB3	2.41	0.56
1:A:1216:ALA:C	1:A:1217:LEU:HG	2.25	0.56
1:A:1278:GLN:HA	1:A:1278:GLN:HE21	1.70	0.56
1:A:1278:GLN:NE2	1:A:1278:GLN:CA	2.68	0.56
1:B:28:PRO:HB2	1:B:30:ILE:O	2.05	0.56
1:B:153:LYS:HB3	1:B:154:PRO:CD	2.35	0.56
1:B:208:ASP:O	1:B:209:PHE:CB	2.53	0.56
1:B:242:ASN:HB2	1:B:245:ASN:O	2.04	0.56
1:B:456:ALA:O	1:B:458:SER:N	2.38	0.56
1:B:466:TYR:HD1	1:B:467:ILE:N	2.03	0.56
1:B:686:ILE:CG2	1:B:689:LYS:HE3	2.35	0.56
1:B:909:ASN:H	1:B:926:THR:HG22	1.68	0.56
1:B:1016:VAL:HG12	1:B:1017:PRO:N	2.20	0.56
1:B:1320:LYS:HD2	1:B:1321:GLY:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1370:THR:HG21	1:B:1506:THR:O	2.05	0.56
1:B:1465:ASN:ND2	1:B:1465:ASN:N	2.52	0.56
2:Y:158:GLU:HG3	2:Y:159:GLU:OE1	2.06	0.56
1:A:644:ASN:C	1:A:644:ASN:HD22	2.07	0.56
1:A:702:GLY:HA2	1:A:728:PHE:CE1	2.41	0.56
1:A:1063:ASP:O	1:A:1064:TYR:HB2	2.06	0.56
1:B:394:THR:HG23	1:B:395:ILE:N	2.19	0.56
1:B:485:ILE:HG22	1:B:487:THR:HG23	1.86	0.56
1:B:641:ASN:ND2	1:B:644:ASN:HB2	2.20	0.56
1:B:1323:LEU:HD12	1:B:1324:HIS:N	2.20	0.56
1:B:1401:ARG:HB2	1:B:1478:ARG:HA	1.87	0.56
2:Y:169:ILE:HG21	2:Y:189:ILE:HD13	1.88	0.56
1:A:215:ALA:C	1:A:216:TYR:CD2	2.79	0.56
1:A:1449:LEU:O	1:A:1449:LEU:HD12	2.06	0.56
1:B:52:ALA:HB2	1:B:73:LEU:HD21	1.87	0.56
1:B:103:TYR:HA	1:B:115:LYS:O	2.06	0.56
1:B:240:TYR:CZ	1:B:443:PRO:CD	2.88	0.56
1:B:348:VAL:HG12	1:B:349:LEU:N	2.21	0.56
1:B:373:VAL:HG23	1:B:374:GLN:H	1.71	0.56
1:B:1117:SER:HA	1:B:1145:THR:HG21	1.87	0.56
1:A:478:VAL:HG11	1:A:566:LYS:HD3	1.88	0.56
1:A:765:ILE:HG23	1:A:765:ILE:O	2.05	0.56
1:A:1024:TYR:CE2	1:A:1030:HIS:CD2	2.93	0.56
1:A:1500:ARG:C	1:A:1502:ASP:H	2.08	0.56
1:B:42:GLN:HA	1:B:79:PHE:O	2.06	0.56
1:B:54:ILE:HG23	1:B:105:GLU:O	2.06	0.56
1:B:165:ASP:HB3	1:B:171:VAL:HG21	1.86	0.56
1:B:1244:THR:O	1:B:1285:TYR:HD2	1.88	0.56
1:A:54:ILE:HG23	1:A:106:VAL:HG22	1.86	0.56
1:A:451:GLY:O	1:A:452:TYR:CD2	2.58	0.56
1:A:531:THR:HG23	1:A:533:ASN:HB2	1.87	0.56
1:A:963:ILE:HG23	1:A:973:ILE:HD11	1.88	0.56
1:A:976:ILE:HG21	1:A:1280:TYR:CE1	2.41	0.56
1:A:1090:ASN:ND2	1:A:1158:ILE:HG21	2.15	0.56
1:B:42:GLN:CB	1:B:80:GLN:HG2	2.35	0.56
1:B:430:VAL:HG22	1:B:455:ILE:HG12	1.87	0.56
1:B:743:SER:OG	1:B:752:LEU:HD13	2.05	0.56
1:A:42:GLN:HB2	1:A:80:GLN:CG	2.35	0.56
1:A:55:SER:HB2	1:A:67:SER:O	2.04	0.56
1:A:243:PHE:CE2	1:A:316:GLU:HG2	2.38	0.56
1:A:438:ASP:O	1:A:439:ALA:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1191:SER:O	1:A:1195:LEU:HG	2.05	0.56
1:A:1218:VAL:CG1	1:A:1226:ARG:HA	2.35	0.56
1:A:1317:TYR:HB3	1:A:1344:ASP:OD2	2.06	0.56
1:A:1372:GLU:HG3	1:A:1373:GLU:N	2.19	0.56
1:B:226:HIS:CD2	1:B:336:PHE:CE2	2.93	0.56
1:B:576:SER:HG	1:B:589:SER:HB2	1.67	0.56
1:B:1143:TYR:CE1	1:B:1186:PHE:CZ	2.94	0.56
1:A:24:VAL:HA	1:A:655:THR:HG1	1.71	0.56
1:A:190:ILE:HG22	1:A:194:PRO:HG3	1.88	0.56
1:A:600:VAL:O	1:A:777:VAL:HG13	2.06	0.56
1:A:835:ARG:HG2	1:A:835:ARG:NH1	2.19	0.56
1:A:903:LEU:HD22	1:A:903:LEU:N	2.21	0.56
1:A:1023:HIS:CD2	1:A:1092:TYR:OH	2.59	0.56
1:A:1238:SER:C	1:A:1240:PRO:HD3	2.26	0.56
1:A:1250:THR:O	1:A:1253:TYR:N	2.39	0.56
1:A:1315:VAL:HG22	1:A:1346:LEU:HD11	1.88	0.56
1:B:123:ASN:HD22	1:B:124:GLY:N	2.03	0.56
2:Y:162:LEU:HD12	2:Y:165:LEU:HD23	1.87	0.56
1:A:208:ASP:O	1:A:209:PHE:HB2	2.06	0.56
1:A:291:MET:O	1:A:293:ILE:HG13	2.06	0.56
1:A:503:ILE:HB	1:A:511:HIS:HB2	1.88	0.56
1:A:1206:ARG:HH11	1:A:1206:ARG:CG	2.12	0.56
1:A:1307:LEU:HD13	1:A:1356:LEU:HD12	1.88	0.56
1:B:707:ASN:HB3	1:B:739:ARG:NH1	2.21	0.56
1:B:707:ASN:OD1	1:B:707:ASN:N	2.39	0.56
1:B:1435:ASN:O	1:B:1438:ASP:N	2.38	0.56
1:B:1496:TYR:HB3	1:B:1504:GLN:HG3	1.87	0.56
1:A:833:VAL:HA	1:A:1430:THR:HG21	1.86	0.55
1:A:838:GLN:HB3	1:A:1486:GLY:HA3	1.88	0.55
1:A:1008:ALA:HA	1:A:1059:TYR:CE2	2.41	0.55
1:A:1244:THR:HB	1:A:1247:MET:CB	2.30	0.55
1:A:1259:LEU:CD1	1:A:1300:TYR:HB2	2.36	0.55
1:A:1304:VAL:CG1	1:A:1305:LYS:H	2.17	0.55
2:X:186:TYR:CD2	2:X:229:LYS:HD3	2.41	0.55
1:B:352:TYR:HD1	1:B:375:VAL:CG1	2.18	0.55
1:B:1019:PHE:CD2	1:B:1020:TYR:CE1	2.95	0.55
2:Y:166:ASP:OD1	2:Y:201:ILE:HD13	2.04	0.55
1:A:486:VAL:O	1:A:486:VAL:HG12	2.05	0.55
1:A:1225:TYR:CE1	1:A:1272:LYS:CG	2.89	0.55
1:B:477:LEU:HA	1:B:564:GLU:HG2	1.88	0.55
1:B:497:THR:HG23	1:B:498:HIS:N	2.17	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:915:GLU:HG3	1:B:920:LYS:HG3	1.88	0.55
1:B:968:VAL:O	1:B:968:VAL:HG23	2.04	0.55
1:B:1304:VAL:CG1	1:B:1305:LYS:H	2.16	0.55
1:A:269:PHE:HB2	1:A:283:MET:HE3	1.88	0.55
1:A:295:GLY:O	1:A:296:ILE:CD1	2.55	0.55
1:A:444:GLU:O	1:A:445:GLU:C	2.44	0.55
1:A:1020:TYR:CD2	1:A:1294:ILE:HG22	2.40	0.55
1:A:1023:HIS:HD2	1:A:1092:TYR:OH	1.89	0.55
1:A:1024:TYR:C	1:A:1024:TYR:HD2	2.08	0.55
1:B:1491:ALA:HB3	1:B:1509:TYR:CE2	2.40	0.55
1:A:905:ILE:HD13	1:A:931:PRO:HG3	1.87	0.55
1:A:1248:VAL:CG2	1:A:1277:GLU:HG2	2.37	0.55
1:A:1502:ASP:C	1:A:1503:LYS:HD2	2.27	0.55
1:B:113:LYS:NZ	1:B:656:ASN:HD21	2.05	0.55
1:B:163:PHE:CE2	1:B:188:PHE:CD2	2.95	0.55
1:B:824:PHE:CE1	1:B:846:TYR:HD1	2.25	0.55
1:B:1290:THR:O	1:B:1294:ILE:CG1	2.54	0.55
1:A:124:GLY:HA3	1:A:148:LEU:O	2.06	0.55
1:A:1108:VAL:HG13	1:A:1109:GLU:N	2.21	0.55
1:B:330:ILE:HG22	1:B:337:SER:HA	1.87	0.55
1:B:950:TYR:CE1	1:B:1271:ILE:HD11	2.41	0.55
1:B:1056:ILE:O	1:B:1057:MET:C	2.44	0.55
1:A:92:LEU:H	1:A:93:PRO:HD3	1.72	0.55
1:A:330:ILE:HG22	1:A:337:SER:CA	2.35	0.55
1:A:432:GLU:OE2	1:A:453:ARG:NH2	2.40	0.55
1:A:647:HIS:O	1:A:650:GLY:N	2.38	0.55
1:B:24:VAL:HA	1:B:655:THR:HG1	1.71	0.55
1:B:106:VAL:HG12	1:B:107:VAL:N	2.22	0.55
1:B:442:LEU:O	1:B:443:PRO:C	2.41	0.55
1:B:981:GLY:O	1:B:982:LEU:CB	2.49	0.55
1:B:1143:TYR:CE1	1:B:1186:PHE:CE2	2.94	0.55
1:B:1184:SER:HA	1:B:1232:LEU:CB	2.36	0.55
2:Y:146:LEU:HD22	2:Y:146:LEU:C	2.27	0.55
1:A:829:ILE:HG13	1:A:925:LYS:CG	2.37	0.55
1:A:1259:LEU:HD11	1:A:1300:TYR:HB2	1.89	0.55
1:A:1277:GLU:HA	1:A:1277:GLU:OE2	2.06	0.55
1:B:33:VAL:HB	1:B:209:PHE:HE2	1.72	0.55
1:B:481:HIS:CE1	1:B:529:PRO:HG3	2.41	0.55
1:B:686:ILE:HG22	1:B:689:LYS:HE3	1.88	0.55
1:B:838:GLN:H	1:B:1486:GLY:HA3	1.71	0.55
1:B:1112:GLN:HB2	1:B:1118:PHE:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:829:ILE:HG22	1:A:830:PRO:HD2	1.89	0.55
1:A:834:VAL:HG21	1:A:1489:SER:OG	2.06	0.55
1:A:896:VAL:O	1:A:897:THR:HG22	2.06	0.55
1:A:957:LYS:HG3	1:A:958:GLU:N	2.21	0.55
1:A:1066:TYR:N	1:A:1066:TYR:CD1	2.74	0.55
1:A:1115:ASN:C	1:A:1115:ASN:HD22	2.10	0.55
1:A:1221:ASN:ND2	1:A:1222:PRO:HA	2.22	0.55
1:B:465:LEU:HD13	1:B:544:TYR:CE1	2.42	0.55
1:B:498:HIS:HB3	1:B:514:THR:CG2	2.36	0.55
1:B:606:ASP:O	1:B:608:ALA:N	2.40	0.55
1:B:1216:ALA:C	1:B:1217:LEU:HG	2.27	0.55
1:B:1272:LYS:HG3	1:B:1272:LYS:O	2.05	0.55
1:B:1279:ARG:HG3	1:B:1284:PHE:HB2	1.89	0.55
1:A:515:ARG:HH12	1:A:527:ASN:H	1.55	0.55
1:A:561:LEU:O	1:A:563:ILE:CG2	2.55	0.55
1:A:1429:PRO:HB3	1:A:1488:LEU:HD22	1.88	0.55
1:B:50:PHE:CD1	1:B:109:LYS:HE2	2.42	0.55
1:B:348:VAL:CG1	1:B:349:LEU:N	2.70	0.55
1:B:1379:LEU:HD13	1:B:1493:PHE:CE2	2.41	0.55
1:B:1432:ILE:HG21	1:B:1479:ILE:HD12	1.89	0.55
1:A:768:TYR:CE2	1:A:770:PRO:HA	2.42	0.55
2:X:194:LYS:HG3	2:X:195:ASP:H	1.72	0.55
1:B:306:ALA:O	1:B:307:VAL:CG2	2.55	0.55
1:B:628:GLU:O	1:B:629:LYS:HD3	2.07	0.55
1:B:707:ASN:HB3	1:B:739:ARG:NH2	2.22	0.55
1:B:1012:LEU:O	1:B:1015:VAL:HG13	2.07	0.55
1:B:1024:TYR:HB2	1:B:1298:THR:CG2	2.37	0.55
1:B:1230:ASP:CG	1:B:1246:ARG:HD2	2.26	0.55
2:Y:208:GLN:O	2:Y:212:MET:HG3	2.07	0.55
1:A:42:GLN:CB	1:A:80:GLN:HG2	2.37	0.54
1:A:395:ILE:O	1:A:429:THR:HG23	2.06	0.54
1:A:1401:ARG:HH11	1:A:1403:VAL:CG2	2.20	0.54
1:B:182:ILE:HD12	1:B:777:VAL:HG11	1.89	0.54
1:B:489:LYS:O	1:B:490:SER:HB2	2.08	0.54
1:B:707:ASN:HB3	1:B:739:ARG:HH22	1.71	0.54
1:B:1028:GLY:O	1:B:1029:ASN:O	2.25	0.54
1:B:1244:THR:HG22	1:B:1245:ALA:N	2.21	0.54
1:B:1300:TYR:C	1:B:1300:TYR:CD2	2.80	0.54
2:Y:153:PHE:CE1	2:Y:168:LYS:HB3	2.42	0.54
1:A:123:ASN:O	1:A:211:THR:HG21	2.08	0.54
1:A:1408:TYR:O	1:A:1410:PRO:HD3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:190:ILE:HG22	1:B:194:PRO:HG3	1.89	0.54
1:B:235:TYR:N	1:B:235:TYR:CD2	2.74	0.54
1:B:1083:LEU:CD1	1:B:1107:LEU:HD11	2.38	0.54
1:B:1196:SER:HB2	1:B:1257:THR:CG2	2.37	0.54
1:A:160:VAL:HG13	1:A:161:LEU:O	2.07	0.54
1:A:226:HIS:CD2	1:A:336:PHE:CE2	2.96	0.54
1:A:373:VAL:HG23	1:A:374:GLN:N	2.22	0.54
1:A:477:LEU:HA	1:A:564:GLU:HG2	1.89	0.54
1:A:556:SER:OG	1:A:557:ASP:N	2.40	0.54
1:A:703:ALA:HB1	1:A:735:ALA:HB3	1.90	0.54
1:A:1204:GLN:OE1	1:A:1204:GLN:HA	2.07	0.54
1:B:617:LYS:CE	1:B:625:GLN:HE22	2.17	0.54
1:B:700:TYR:CE1	1:B:758:LEU:HD12	2.43	0.54
1:B:765:ILE:HG23	1:B:765:ILE:O	2.07	0.54
1:B:1238:SER:C	1:B:1240:PRO:HD3	2.28	0.54
1:A:1066:TYR:N	1:A:1066:TYR:HD1	2.06	0.54
1:A:1136:GLU:OE1	1:A:1415:SER:HB2	2.06	0.54
1:A:1320:LYS:HG2	1:A:1342:LEU:HD12	1.88	0.54
2:X:158:GLU:HG3	2:X:159:GLU:OE1	2.07	0.54
1:B:73:LEU:N	1:B:73:LEU:HD23	2.23	0.54
1:B:373:VAL:CG2	1:B:374:GLN:N	2.70	0.54
1:B:387:PRO:HA	1:B:410:VAL:HG22	1.90	0.54
1:B:796:THR:HA	1:B:818:LYS:HA	1.88	0.54
1:B:856:CYS:O	1:B:914:LEU:HA	2.08	0.54
1:B:1076:THR:HG22	1:B:1120:GLU:OE2	2.08	0.54
1:B:1104:LEU:HD13	1:B:1164:ILE:CD1	2.38	0.54
1:B:1278:GLN:NE2	1:B:1278:GLN:HA	2.22	0.54
1:A:489:LYS:O	1:A:490:SER:HB2	2.07	0.54
1:A:511:HIS:NE2	1:A:531:THR:HG21	2.22	0.54
1:A:831:TYR:CE1	1:A:1457:ASP:HB3	2.42	0.54
1:A:835:ARG:HH11	1:A:835:ARG:CG	2.18	0.54
1:A:1311:MET:HE2	1:A:1354:SER:O	2.08	0.54
1:B:292:LEU:HD22	1:B:296:ILE:O	2.08	0.54
1:B:457:TYR:CD2	1:B:457:TYR:O	2.61	0.54
1:B:541:LEU:HB2	1:B:558:SER:CB	2.26	0.54
1:B:947:ARG:HB2	1:B:949:ILE:CG1	2.37	0.54
1:A:628:GLU:O	1:A:628:GLU:HG3	2.06	0.54
1:A:915:GLU:HG3	1:A:920:LYS:HG3	1.88	0.54
1:B:160:VAL:HG13	1:B:161:LEU:O	2.06	0.54
1:B:394:THR:HG22	1:B:402:SER:OG	2.08	0.54
1:B:469:TRP:CD1	1:B:482:LEU:HD21	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:640:LEU:H	1:B:644:ASN:HB3	1.73	0.54
1:B:823:VAL:HA	1:B:846:TYR:O	2.06	0.54
1:B:1186:PHE:CD1	1:B:1250:THR:HG22	2.38	0.54
1:B:1228:TRP:HZ3	1:B:1270:VAL:HG22	1.73	0.54
1:B:1500:ARG:C	1:B:1502:ASP:H	2.11	0.54
1:A:743:SER:OG	1:A:752:LEU:HD13	2.08	0.54
1:A:987:ILE:HG12	1:A:1294:ILE:HD12	1.90	0.54
1:A:1290:THR:O	1:A:1290:THR:HG22	2.07	0.54
1:A:1325:ASN:ND2	1:A:1325:ASN:O	2.41	0.54
1:B:544:TYR:HE1	1:B:555:VAL:HG12	1.73	0.54
1:B:739:ARG:HB2	1:B:752:LEU:HD21	1.88	0.54
1:B:1066:TYR:N	1:B:1066:TYR:HD1	2.05	0.54
1:A:56:ILE:HG13	1:A:66:TYR:HD2	1.73	0.54
1:A:142:LYS:HD3	1:A:775:TRP:CG	2.43	0.54
1:A:144:ARG:HG2	1:A:775:TRP:CZ2	2.43	0.54
1:A:491:PRO:C	1:A:493:ILE:N	2.60	0.54
1:A:961:TYR:OH	1:A:1343:ASN:ND2	2.41	0.54
1:A:1423:VAL:HG21	1:A:1496:TYR:CE1	2.43	0.54
1:A:1456:LYS:O	1:A:1457:ASP:C	2.46	0.54
1:B:362:PHE:HA	1:B:455:ILE:H	1.72	0.54
1:B:509:ILE:HD11	1:B:651:LEU:HD21	1.90	0.54
1:B:839:ILE:HG22	1:B:900:VAL:HG23	1.88	0.54
1:B:1115:ASN:HD22	1:B:1117:SER:H	1.56	0.54
1:A:942:VAL:HG21	1:A:957:LYS:HB3	1.89	0.54
1:A:1043:GLN:O	1:A:1046:LYS:HB2	2.08	0.54
1:A:1381:ILE:CG1	1:A:1404:ALA:HB2	2.28	0.54
1:B:101:TYR:CE1	1:B:116:ARG:NE	2.75	0.54
1:B:235:TYR:N	1:B:235:TYR:HD2	2.05	0.54
1:B:493:ILE:HG23	1:B:494:ASP:H	1.72	0.54
1:B:948:GLY:HA2	1:B:952:THR:O	2.08	0.54
1:B:1236:ASP:HB2	1:B:1412:ARG:NH2	2.20	0.54
1:B:1341:LEU:HB3	1:B:1342:LEU:HD23	1.89	0.54
1:A:235:TYR:CD2	1:A:235:TYR:N	2.76	0.54
1:A:968:VAL:HG23	1:A:971:THR:HG21	1.91	0.54
1:A:1307:LEU:HB2	1:A:1355:GLY:HA2	1.90	0.54
1:B:35:ALA:HA	1:B:150:ASP:OD1	2.07	0.54
1:B:647:HIS:O	1:B:650:GLY:N	2.41	0.54
1:A:25:ILE:O	1:A:654:LEU:N	2.38	0.53
1:A:195:ARG:HH11	1:A:195:ARG:CG	2.22	0.53
1:A:718:ILE:HG21	1:A:725:ILE:HG12	1.89	0.53
1:A:1161:LEU:HB3	1:A:1164:ILE:HG23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1273:TRP:CZ3	1:A:1274:LEU:HD23	2.43	0.53
1:A:1381:ILE:HD13	1:A:1509:TYR:CD1	2.43	0.53
2:X:167:PHE:O	2:X:171:GLN:HB2	2.09	0.53
1:B:138:ASP:H	1:B:190:ILE:HB	1.73	0.53
1:B:794:LEU:O	1:B:795:THR:HG23	2.08	0.53
1:B:1082:ALA:O	1:B:1083:LEU:C	2.46	0.53
1:B:1205:PHE:HA	1:B:1208:ILE:HG13	1.90	0.53
2:Y:162:LEU:O	2:Y:166:ASP:HB2	2.08	0.53
1:A:59:TYR:CD1	1:A:103:TYR:HE1	2.25	0.53
1:A:161:LEU:C	1:A:162:THR:HG22	2.28	0.53
1:A:371:ILE:HD12	1:A:390:LEU:CD2	2.35	0.53
1:A:605:VAL:HG12	1:A:606:ASP:N	2.22	0.53
1:A:610:TYR:HB2	1:A:614:ARG:HD2	1.90	0.53
1:A:1225:TYR:CE1	1:A:1272:LYS:HG2	2.43	0.53
1:B:23:TYR:HE1	1:B:656:ASN:HB2	1.72	0.53
1:B:160:VAL:HG23	1:B:175:GLU:CB	2.38	0.53
1:B:608:ALA:O	1:B:609:VAL:C	2.47	0.53
1:B:614:ARG:NH2	1:B:798:GLU:OE2	2.39	0.53
1:B:686:ILE:C	1:B:688:ALA:N	2.58	0.53
1:B:1334:LEU:N	1:B:1334:LEU:CD2	2.71	0.53
1:A:195:ARG:HG2	1:A:195:ARG:NH1	2.23	0.53
1:A:541:LEU:HB2	1:A:558:SER:CB	2.35	0.53
1:A:823:VAL:HA	1:A:846:TYR:O	2.09	0.53
1:A:1053:MET:O	1:A:1056:ILE:HG23	2.08	0.53
1:B:124:GLY:C	1:B:125:PHE:CG	2.81	0.53
1:B:231:ILE:HB	1:B:250:ILE:HG22	1.89	0.53
1:B:292:LEU:HD13	1:B:293:ILE:N	2.22	0.53
1:B:718:ILE:HG21	1:B:725:ILE:HG12	1.89	0.53
1:B:781:PRO:O	1:B:782:ARG:HB2	2.08	0.53
1:B:855:PHE:CZ	1:B:886:GLN:CB	2.77	0.53
1:B:1190:ILE:HG12	1:B:1253:TYR:CE1	2.44	0.53
2:Y:150:ILE:O	2:Y:150:ILE:HG13	2.09	0.53
1:A:154:PRO:HB3	1:A:180:ILE:O	2.08	0.53
1:A:172:ASP:OD2	1:A:173:MET:N	2.38	0.53
1:A:493:ILE:HG23	1:A:494:ASP:H	1.72	0.53
1:A:593:ALA:HA	1:A:782:ARG:O	2.08	0.53
1:A:739:ARG:HB2	1:A:752:LEU:HD21	1.91	0.53
1:A:911:ASN:CG	1:A:924:VAL:HG13	2.29	0.53
1:A:988:LEU:HD23	1:A:1021:VAL:HG13	1.89	0.53
1:A:1184:SER:HA	1:A:1232:LEU:HB2	1.90	0.53
1:B:137:PRO:O	1:B:138:ASP:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:326:ALA:HA	1:B:341:GLU:HA	1.91	0.53
1:B:609:VAL:HG23	1:B:610:TYR:CD2	2.43	0.53
1:B:1008:ALA:O	1:B:1009:GLU:C	2.47	0.53
1:A:42:GLN:HA	1:A:79:PHE:O	2.08	0.53
1:A:85:LEU:O	1:A:86:THR:CB	2.54	0.53
1:A:639:GLY:N	1:A:645:VAL:HG22	2.16	0.53
1:A:1020:TYR:HD2	1:A:1294:ILE:CG2	2.21	0.53
1:A:1148:THR:OG1	1:A:1152:ILE:HD11	2.08	0.53
1:A:1337:PRO:O	1:A:1338:VAL:HG23	2.09	0.53
1:A:1348:VAL:HG11	1:A:1359:VAL:CG2	2.35	0.53
1:A:1377:PHE:CE1	1:A:1467:ILE:HD12	2.43	0.53
1:A:1467:ILE:N	1:A:1468:PRO:HD3	2.23	0.53
1:B:635:GLY:C	1:B:673:LEU:HA	2.28	0.53
1:B:1090:ASN:OD1	1:B:1090:ASN:O	2.27	0.53
1:A:229:VAL:HG22	1:A:252:ALA:HB2	1.90	0.53
1:A:308:LYS:HA	1:A:313:TYR:O	2.08	0.53
1:A:467:ILE:HD12	1:A:484:ILE:HD12	1.90	0.53
1:A:1030:HIS:CE1	1:A:1306:GLN:HE22	2.25	0.53
1:A:1145:THR:O	1:A:1149:VAL:HG23	2.08	0.53
1:A:1429:PRO:HG2	1:A:1511:THR:CB	2.36	0.53
1:B:169:SER:O	1:B:171:VAL:HG23	2.08	0.53
1:B:284:GLN:OE1	1:B:284:GLN:N	2.42	0.53
1:B:290:THR:O	1:B:290:THR:CG2	2.57	0.53
1:B:598:SER:HA	1:B:805:SER:OG	2.08	0.53
1:B:625:GLN:O	1:B:629:LYS:HE2	2.08	0.53
1:B:922:ILE:CD1	3:D:1:NAG:H82	2.28	0.53
1:B:1080:ALA:HA	1:B:1083:LEU:HB2	1.91	0.53
1:B:1153:ARG:CZ	1:B:1168:LEU:HD22	2.39	0.53
1:B:1257:THR:O	1:B:1260:ASN:HB2	2.08	0.53
1:A:141:VAL:HG23	1:A:190:ILE:HD11	1.91	0.53
1:A:456:ALA:O	1:A:458:SER:N	2.42	0.53
1:A:754:MET:O	1:A:755:LYS:HG2	2.09	0.53
1:A:841:LEU:HD12	1:A:859:MET:CE	2.36	0.53
1:A:951:GLY:HA3	1:A:1224:ILE:HG23	1.91	0.53
1:A:1003:LEU:HD13	1:A:1498:TYR:CD1	2.43	0.53
2:X:136:LEU:N	2:X:136:LEU:HD23	2.24	0.53
1:B:56:ILE:HG13	1:B:66:TYR:HD2	1.74	0.53
1:B:243:PHE:CZ	1:B:316:GLU:CG	2.85	0.53
1:B:296:ILE:HG22	1:B:297:ALA:H	1.73	0.53
1:B:710:THR:HG23	1:B:713:GLN:CD	2.29	0.53
1:B:857:VAL:HG21	1:B:896:VAL:HG11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:983:LEU:HD11	1:B:1356:LEU:HD22	1.91	0.53
1:A:73:LEU:HB2	1:A:79:PHE:HA	1.89	0.53
1:A:214:THR:HG22	1:A:215:ALA:N	2.23	0.53
1:A:1090:ASN:OD1	1:A:1090:ASN:O	2.26	0.53
1:B:298:GLN:O	1:B:299:VAL:HG13	2.09	0.53
1:B:515:ARG:NH1	1:B:527:ASN:H	2.04	0.53
1:B:837:GLU:C	1:B:901:LEU:HD12	2.30	0.53
1:B:1043:GLN:OE1	1:B:1043:GLN:HA	2.09	0.53
1:A:240:TYR:CZ	1:A:443:PRO:CD	2.92	0.53
1:A:313:TYR:CZ	1:A:321:LYS:HD2	2.43	0.53
1:A:435:VAL:CG1	1:A:436:LYS:N	2.72	0.53
1:A:531:THR:CG2	1:A:533:ASN:HB2	2.38	0.53
1:A:707:ASN:OD1	1:A:707:ASN:N	2.41	0.53
1:A:907:LEU:HD12	1:A:908:HIS:H	1.73	0.53
1:A:979:VAL:C	1:A:980:LYS:HD2	2.29	0.53
1:A:1142:LEU:HD13	1:A:1187:THR:HG22	1.90	0.53
1:B:27:ALA:HB2	1:B:39:ILE:HD12	1.91	0.53
1:B:240:TYR:OH	1:B:443:PRO:HD3	2.09	0.53
1:B:430:VAL:HA	1:B:454:ALA:O	2.09	0.53
1:B:606:ASP:C	1:B:608:ALA:H	2.12	0.53
1:B:653:PHE:CE1	1:B:660:ASP:HB3	2.44	0.53
1:B:700:TYR:C	1:B:702:GLY:N	2.60	0.53
1:B:835:ARG:NE	1:B:905:ILE:HD11	2.24	0.53
1:B:838:GLN:HB3	1:B:1486:GLY:HA3	1.89	0.53
1:B:1096:ASN:HD22	1:B:1099:SER:H	1.56	0.53
1:B:1150:ILE:HD11	1:B:1190:ILE:CG2	2.38	0.53
1:B:1290:THR:O	1:B:1294:ILE:HG12	2.09	0.53
1:B:1439:LEU:HA	1:B:1442:LEU:HD12	1.90	0.53
1:B:1475:VAL:HG22	1:B:1476:ARG:N	2.22	0.53
1:A:284:GLN:NE2	1:A:310:LEU:HD22	2.24	0.53
1:A:306:ALA:O	1:A:307:VAL:CG2	2.56	0.53
1:A:1115:ASN:ND2	1:A:1115:ASN:C	2.63	0.53
1:A:1257:THR:O	1:A:1260:ASN:HB2	2.09	0.53
1:A:1491:ALA:HB3	1:A:1509:TYR:CE2	2.42	0.53
1:B:61:ASP:O	1:B:63:LYS:N	2.37	0.53
1:B:499:TYR:O	1:B:514:THR:HG23	2.09	0.53
1:B:561:LEU:O	1:B:563:ILE:CG2	2.57	0.53
1:B:1105:LEU:HD22	1:B:1109:GLU:OE1	2.09	0.53
1:B:1383:THR:HG22	1:B:1402:ILE:HG12	1.91	0.53
1:B:1467:ILE:N	1:B:1468:PRO:HD3	2.23	0.53
1:A:319:ASN:O	1:A:320:ASN:ND2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:686:ILE:C	1:A:688:ALA:H	2.12	0.52
1:B:50:PHE:CE2	1:B:79:PHE:CE2	2.97	0.52
1:B:177:ILE:HD11	1:B:179:HIS:HB2	1.91	0.52
1:B:1028:GLY:O	1:B:1030:HIS:CD2	2.62	0.52
1:B:1053:MET:O	1:B:1056:ILE:HG23	2.08	0.52
1:B:1129:LEU:HD13	1:B:1139:GLU:HB3	1.91	0.52
1:B:1136:GLU:OE1	1:B:1415:SER:CB	2.57	0.52
1:A:127:PHE:CE2	1:A:809:ILE:HD12	2.44	0.52
1:A:505:SER:O	1:A:506:LYS:HB2	2.10	0.52
1:A:661:ASP:OD2	1:A:663:GLN:NE2	2.43	0.52
1:A:992:LEU:HD21	1:A:1045:LEU:HD11	1.90	0.52
1:A:1003:LEU:HD23	1:A:1003:LEU:N	2.23	0.52
1:A:1019:PHE:CD2	1:A:1020:TYR:CD1	2.98	0.52
1:A:1452:ASP:O	1:A:1462:LEU:HA	2.08	0.52
2:X:222:ASN:O	2:X:223:LYS:HG3	2.07	0.52
1:B:328:THR:OG1	1:B:339:GLU:HG2	2.08	0.52
1:B:363:LEU:HD23	1:B:454:ALA:CB	2.40	0.52
1:B:531:THR:HG23	1:B:533:ASN:H	1.74	0.52
1:B:1105:LEU:HA	1:B:1108:VAL:HG11	1.91	0.52
1:B:1210:SER:OG	1:B:1211:ALA:N	2.40	0.52
1:B:1456:LYS:O	1:B:1457:ASP:C	2.48	0.52
1:A:363:LEU:HD23	1:A:454:ALA:HB3	1.91	0.52
1:A:792:ASP:O	1:A:793:SER:HB2	2.10	0.52
1:A:957:LYS:HG3	1:A:958:GLU:H	1.73	0.52
1:A:1408:TYR:HD2	1:A:1418:GLY:HA2	1.74	0.52
1:B:142:LYS:HD3	1:B:775:TRP:CD2	2.43	0.52
1:B:349:LEU:HD22	1:B:446:ASN:HD22	1.75	0.52
1:B:571:LEU:CD2	1:B:600:VAL:HG13	2.39	0.52
1:B:719:SER:HB2	1:B:1123:GLN:NE2	2.25	0.52
1:B:1288:GLN:O	1:B:1292:ASN:ND2	2.43	0.52
1:A:348:VAL:CG1	1:A:349:LEU:N	2.72	0.52
1:A:720:LEU:HD11	1:A:1446:VAL:HG22	1.91	0.52
1:A:838:GLN:HA	1:A:901:LEU:HB2	1.92	0.52
1:A:1113:LEU:N	1:A:1117:SER:O	2.43	0.52
2:X:162:LEU:O	2:X:166:ASP:HB2	2.10	0.52
2:X:192:ASN:O	2:X:221:ILE:HG23	2.08	0.52
1:B:27:ALA:CB	1:B:39:ILE:HD12	2.39	0.52
1:B:1226:ARG:NE	1:B:1266:TYR:CE1	2.77	0.52
1:B:1432:ILE:CG2	1:B:1479:ILE:HD12	2.39	0.52
1:A:57:LYS:HD2	1:A:105:GLU:OE1	2.10	0.52
1:A:173:MET:O	1:A:174:VAL:CB	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:TYR:CD2	1:A:322:TYR:N	2.78	0.52
1:A:460:LEU:C	1:A:462:GLN:H	2.13	0.52
1:A:466:TYR:HD1	1:A:467:ILE:N	2.08	0.52
1:A:814:THR:O	1:A:815:VAL:HG23	2.10	0.52
1:B:198:MET:HE1	1:B:218:GLU:HB2	1.91	0.52
1:B:362:PHE:CE1	1:B:638:GLY:O	2.62	0.52
1:B:517:LYS:HA	1:B:524:GLN:HE22	1.75	0.52
1:B:916:THR:HG22	1:B:917:TRP:N	2.25	0.52
1:B:1016:VAL:HG12	1:B:1017:PRO:HD3	1.92	0.52
1:B:1045:LEU:N	1:B:1045:LEU:HD23	2.25	0.52
1:A:250:ILE:HG21	1:A:327:VAL:HG21	1.91	0.52
1:A:944:LEU:HD13	1:A:1350:THR:HB	1.90	0.52
1:A:977:LEU:HA	1:A:1361:VAL:CG2	2.38	0.52
1:A:1128:LYS:O	1:A:1246:ARG:NH2	2.42	0.52
1:A:1196:SER:HB2	1:A:1257:THR:CG2	2.39	0.52
1:A:1236:ASP:HB2	1:A:1412:ARG:NH2	2.24	0.52
1:B:386:VAL:N	1:B:410:VAL:HG13	2.25	0.52
1:A:196:TYR:CZ	1:A:221:GLU:HB2	2.45	0.52
1:A:267:ILE:HG23	1:A:327:VAL:HG22	1.91	0.52
1:A:431:LEU:C	1:A:431:LEU:CD2	2.78	0.52
1:A:901:LEU:HD23	1:A:901:LEU:O	2.10	0.52
1:A:1249:GLU:HG2	1:A:1253:TYR:HE2	1.75	0.52
1:A:1431:GLY:C	1:A:1432:ILE:HG12	2.30	0.52
1:A:1440:LYS:O	1:A:1444:GLU:HB2	2.09	0.52
1:B:24:VAL:HA	1:B:655:THR:OG1	2.09	0.52
1:B:987:ILE:CD1	1:B:1294:ILE:HD13	2.39	0.52
1:B:1022:PHE:HD2	1:B:1092:TYR:CD2	2.27	0.52
1:A:132:LYS:HZ1	1:A:139:GLN:HE22	1.58	0.52
1:A:244:LYS:HE3	1:A:304:GLU:CD	2.30	0.52
1:A:686:ILE:HG22	1:A:689:LYS:HE3	1.92	0.52
1:A:1432:ILE:CG2	1:A:1479:ILE:HD12	2.40	0.52
1:B:85:LEU:HD22	1:B:85:LEU:N	2.23	0.52
1:B:661:ASP:OD2	1:B:663:GLN:NE2	2.42	0.52
1:B:948:GLY:O	1:B:950:TYR:N	2.42	0.52
1:B:1066:TYR:N	1:B:1066:TYR:CD1	2.75	0.52
1:B:1115:ASN:ND2	1:B:1117:SER:H	2.07	0.52
1:B:1153:ARG:HD2	1:B:1197:LEU:O	2.10	0.52
1:B:1411:SER:O	1:B:1414:GLU:HB2	2.10	0.52
1:B:1423:VAL:HG22	1:B:1496:TYR:CD1	2.45	0.52
1:A:172:ASP:O	1:A:173:MET:HB2	2.09	0.52
1:A:227:PHE:HB3	1:A:254:TYR:HD2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:PHE:CZ	1:A:316:GLU:HA	2.45	0.52
1:A:326:ALA:HA	1:A:341:GLU:HA	1.90	0.52
1:A:435:VAL:HG12	1:A:436:LYS:N	2.25	0.52
1:A:1334:LEU:N	1:A:1334:LEU:CD2	2.72	0.52
1:B:222:TYR:OH	1:B:224:LEU:HD22	2.09	0.52
1:B:1003:LEU:HD13	1:B:1498:TYR:CD1	2.45	0.52
2:Y:190:THR:HG22	2:Y:200:GLU:HG2	1.92	0.52
1:A:163:PHE:N	1:A:163:PHE:CD1	2.73	0.52
1:A:362:PHE:CE1	1:A:638:GLY:O	2.63	0.52
1:A:621:GLU:O	1:A:625:GLN:HG3	2.10	0.52
1:A:680:GLN:HG2	1:A:680:GLN:O	2.10	0.52
1:A:840:GLN:HG2	1:A:899:THR:CG2	2.40	0.52
1:A:1022:PHE:HE2	1:A:1092:TYR:CG	2.28	0.52
1:A:1421:HIS:CE1	1:A:1498:TYR:CG	2.97	0.52
1:A:1435:ASN:O	1:A:1438:ASP:HB2	2.10	0.52
1:A:1511:THR:HG23	1:A:1511:THR:O	2.10	0.52
1:B:44:TYR:HE1	1:B:497:THR:OG1	1.92	0.52
1:B:138:ASP:OD1	1:B:192:SER:HA	2.10	0.52
1:B:169:SER:O	1:B:170:GLU:C	2.49	0.52
1:B:269:PHE:CB	1:B:283:MET:CE	2.88	0.52
1:B:626:PHE:O	1:B:628:GLU:N	2.44	0.52
1:B:686:ILE:C	1:B:688:ALA:H	2.10	0.52
1:B:1025:LEU:HD13	1:B:1031:TRP:HZ3	1.74	0.52
1:B:1313:ILE:HG22	1:B:1314:ASP:H	1.75	0.52
1:B:1408:TYR:HD2	1:B:1418:GLY:HA2	1.75	0.52
1:A:101:TYR:HE1	1:A:116:ARG:NE	2.08	0.51
1:A:328:THR:OG1	1:A:339:GLU:HG2	2.10	0.51
1:A:415:ASP:OD2	1:A:417:VAL:HB	2.09	0.51
1:A:1016:VAL:HG12	1:A:1017:PRO:N	2.25	0.51
1:A:1045:LEU:N	1:A:1045:LEU:HD23	2.24	0.51
1:A:1228:TRP:HZ3	1:A:1270:VAL:HG22	1.73	0.51
1:A:1411:SER:O	1:A:1414:GLU:HB2	2.10	0.51
2:X:183:THR:CB	2:X:230:GLN:HB3	2.40	0.51
1:B:128:ILE:HG23	1:B:145:VAL:CG2	2.39	0.51
1:B:295:GLY:O	1:B:296:ILE:HD13	2.10	0.51
1:B:1019:PHE:HE2	1:B:1088:GLN:NE2	2.07	0.51
1:B:1030:HIS:CE1	1:B:1306:GLN:NE2	2.78	0.51
1:B:1133:LEU:HD12	1:B:1133:LEU:H	1.74	0.51
1:B:1434:ALA:HB1	1:B:1477:PHE:CE1	2.45	0.51
1:B:1435:ASN:HD22	1:B:1478:ARG:HB2	1.74	0.51
1:A:162:THR:O	1:A:162:THR:OG1	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:ARG:HB2	1:A:253:ARG:CZ	2.40	0.51
1:A:839:ILE:HD11	1:A:1483:PHE:CE1	2.44	0.51
1:A:1133:LEU:N	1:A:1134:PRO:CD	2.73	0.51
1:A:1272:LYS:O	1:A:1272:LYS:HG3	2.09	0.51
1:A:1284:PHE:HD2	1:A:1285:TYR:CE1	2.28	0.51
1:A:1320:LYS:HD2	1:A:1321:GLY:N	2.25	0.51
1:B:100:SER:O	1:B:101:TYR:HD2	1.94	0.51
1:B:215:ALA:C	1:B:216:TYR:CD2	2.83	0.51
1:B:227:PHE:CZ	1:B:329:VAL:O	2.63	0.51
1:B:250:ILE:HG13	1:B:250:ILE:O	2.10	0.51
1:B:594:THR:O	1:B:782:ARG:HG2	2.09	0.51
1:B:754:MET:O	1:B:755:LYS:HG2	2.11	0.51
1:B:829:ILE:HG13	1:B:925:LYS:CG	2.38	0.51
1:B:1172:ASP:O	1:B:1175:LEU:HB2	2.10	0.51
1:A:106:VAL:HG12	1:A:107:VAL:H	1.74	0.51
1:A:269:PHE:CB	1:A:283:MET:CE	2.89	0.51
1:A:322:TYR:N	1:A:322:TYR:HD2	2.07	0.51
1:A:585:GLY:HA2	1:A:790:LEU:O	2.10	0.51
1:B:330:ILE:HG22	1:B:337:SER:CA	2.40	0.51
1:B:701:ASP:O	1:B:704:CYS:HB2	2.11	0.51
1:B:1018:VAL:O	1:B:1021:VAL:N	2.44	0.51
1:B:1023:HIS:O	1:B:1027:THR:HB	2.11	0.51
1:B:1076:THR:HG22	1:B:1120:GLU:HA	1.92	0.51
1:B:1193:TYR:CA	1:B:1257:THR:HG23	2.36	0.51
1:A:165:ASP:HB3	1:A:171:VAL:HG21	1.91	0.51
1:A:1401:ARG:HA	1:A:1478:ARG:HA	1.93	0.51
1:A:1429:PRO:CG	1:A:1511:THR:HB	2.39	0.51
1:B:491:PRO:O	1:B:492:TYR:C	2.49	0.51
1:B:544:TYR:H	1:B:544:TYR:HD1	1.57	0.51
1:B:573:VAL:O	1:B:815:VAL:HG21	2.09	0.51
1:B:647:HIS:O	1:B:649:ALA:N	2.43	0.51
1:B:712:GLU:HA	1:B:715:ALA:HB3	1.92	0.51
1:A:1161:LEU:HD12	1:A:1162:VAL:CG2	2.41	0.51
1:A:1210:SER:O	1:A:1214:ARG:N	2.38	0.51
1:A:1296:GLY:O	1:A:1299:GLU:N	2.42	0.51
1:A:1334:LEU:H	1:A:1334:LEU:CD2	2.21	0.51
1:B:799:ILE:O	1:B:799:ILE:HG12	2.10	0.51
1:B:849:ARG:CG	1:B:853:MET:HE1	2.38	0.51
1:B:1043:GLN:O	1:B:1046:LYS:HB2	2.10	0.51
1:B:1049:LEU:O	1:B:1050:LYS:C	2.47	0.51
1:B:1076:THR:HG21	1:B:1120:GLU:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1157:ASP:C	1:B:1160:PRO:HD3	2.31	0.51
1:B:1259:LEU:CD1	1:B:1300:TYR:HB2	2.40	0.51
1:A:80:GLN:HB3	1:A:512:PHE:HE1	1.76	0.51
1:A:169:SER:O	1:A:170:GLU:C	2.49	0.51
1:A:586:GLN:O	1:A:790:LEU:HD12	2.11	0.51
1:A:913:SER:HA	1:A:921:GLU:O	2.11	0.51
1:A:1080:ALA:O	1:A:1081:PHE:C	2.47	0.51
1:A:1432:ILE:O	1:A:1433:SER:C	2.49	0.51
1:A:1460:VAL:O	1:A:1460:VAL:HG12	2.10	0.51
1:B:342:ILE:CG2	1:B:343:PRO:HD2	2.41	0.51
1:B:494:ASP:C	1:B:496:ILE:H	2.14	0.51
1:B:571:LEU:HD12	1:B:572:GLN:H	1.68	0.51
1:B:981:GLY:HA3	1:B:1309:LEU:HD11	1.92	0.51
1:B:1008:ALA:O	1:B:1011:GLU:N	2.44	0.51
1:B:1096:ASN:ND2	1:B:1099:SER:H	2.08	0.51
1:B:1127:ILE:H	1:B:1127:ILE:HD12	1.74	0.51
1:B:1307:LEU:O	1:B:1308:ARG:C	2.48	0.51
1:A:582:TYR:HB2	1:A:819:VAL:HG12	1.93	0.51
1:A:626:PHE:O	1:A:629:LYS:HG2	2.10	0.51
1:A:1229:LYS:HB3	1:A:1231:ASN:OD1	2.10	0.51
1:B:847:ASN:O	1:B:848:TYR:CD1	2.63	0.51
1:B:1022:PHE:CE2	1:B:1092:TYR:CG	2.99	0.51
1:A:27:ALA:HB2	1:A:39:ILE:HD12	1.92	0.51
1:A:50:PHE:CD1	1:A:109:LYS:HE2	2.45	0.51
1:A:269:PHE:CD1	1:A:286:ALA:HB1	2.46	0.51
1:A:493:ILE:CG2	1:A:494:ASP:N	2.73	0.51
1:A:700:TYR:C	1:A:702:GLY:N	2.62	0.51
1:A:1025:LEU:HD13	1:A:1031:TRP:HZ3	1.74	0.51
1:A:1290:THR:HA	1:A:1293:ALA:HB3	1.93	0.51
1:A:1311:MET:HG2	1:A:1350:THR:OG1	2.11	0.51
1:B:73:LEU:HD23	1:B:73:LEU:H	1.76	0.51
1:B:269:PHE:CB	1:B:283:MET:HE3	2.41	0.51
1:B:323:LEU:HB3	1:B:345:ILE:HB	1.92	0.51
1:B:575:LEU:HG	1:B:815:VAL:HG11	1.93	0.51
1:B:592:MET:HE2	1:B:784:LYS:HB3	1.93	0.51
1:B:833:VAL:HA	1:B:1430:THR:HG21	1.92	0.51
1:B:1100:ILE:HG21	1:B:1158:ILE:HD12	1.92	0.51
1:B:1251:THR:HG21	1:B:1273:TRP:HH2	1.73	0.51
1:A:27:ALA:O	1:A:652:THR:O	2.29	0.51
1:A:146:TYR:CE1	1:A:182:ILE:HG23	2.46	0.51
1:A:316:GLU:O	1:A:319:ASN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:ILE:HB	1:A:336:PHE:O	2.11	0.51
1:A:395:ILE:HG13	1:A:429:THR:OG1	2.10	0.51
1:A:412:ARG:HD3	1:A:414:ASP:OD1	2.11	0.51
1:A:701:ASP:OD1	1:A:702:GLY:N	2.44	0.51
1:A:1316:SER:O	1:A:1347:ILE:HG13	2.11	0.51
1:B:73:LEU:HB2	1:B:79:PHE:HA	1.92	0.51
1:B:142:LYS:HD3	1:B:775:TRP:CD1	2.46	0.51
1:B:155:ALA:O	1:B:156:LYS:C	2.49	0.51
1:B:165:ASP:C	1:B:165:ASP:OD1	2.49	0.51
1:B:515:ARG:HH22	1:B:527:ASN:C	2.14	0.51
1:B:961:TYR:HD2	1:B:1344:ASP:O	1.94	0.51
1:B:976:ILE:HG21	1:B:1280:TYR:HE1	1.76	0.51
1:B:1030:HIS:NE2	1:B:1306:GLN:NE2	2.59	0.51
1:B:1372:GLU:HG3	1:B:1373:GLU:N	2.20	0.51
1:B:1440:LYS:HD3	1:B:1453:TYR:CZ	2.45	0.51
2:Y:192:ASN:HB2	2:Y:223:LYS:H	1.76	0.51
1:A:296:ILE:HG22	1:A:297:ALA:N	2.23	0.51
1:A:354:LEU:HD12	1:A:435:VAL:CG1	2.41	0.51
1:B:272:ARG:CG	1:B:273:GLU:H	2.24	0.51
1:B:364:LYS:H	1:B:364:LYS:HD3	1.74	0.51
1:B:1202:HIS:CD2	1:B:1204:GLN:CB	2.94	0.51
1:B:1346:LEU:HG	1:B:1347:ILE:N	2.26	0.51
1:B:1429:PRO:HB3	1:B:1488:LEU:CD2	2.41	0.51
1:A:78:LYS:NZ	2:X:144:GLY:HA2	2.26	0.50
1:A:702:GLY:HA2	1:A:728:PHE:CD1	2.46	0.50
1:B:30:ILE:HG22	1:B:31:PHE:O	2.11	0.50
1:B:173:MET:O	1:B:174:VAL:HB	2.11	0.50
1:B:936:ARG:NH1	1:B:1002:HIS:CE1	2.78	0.50
1:B:1432:ILE:O	1:B:1433:SER:O	2.28	0.50
1:A:150:ASP:N	1:A:150:ASP:OD2	2.44	0.50
1:A:271:ILE:O	1:A:272:ARG:HB2	2.11	0.50
1:A:352:TYR:HD1	1:A:375:VAL:HG11	1.76	0.50
1:B:244:LYS:HE3	1:B:304:GLU:CD	2.31	0.50
1:B:450:GLU:HB3	1:B:452:TYR:CE2	2.47	0.50
1:B:953:ILE:HG13	1:B:953:ILE:O	2.10	0.50
1:B:1431:GLY:C	1:B:1432:ILE:HG12	2.32	0.50
1:A:54:ILE:HG22	1:A:55:SER:N	2.27	0.50
1:A:242:ASN:HB3	1:A:245:ASN:OD1	2.10	0.50
1:A:412:ARG:HD3	1:A:414:ASP:CG	2.32	0.50
1:A:491:PRO:O	1:A:492:TYR:C	2.48	0.50
1:A:571:LEU:HD21	1:A:600:VAL:HG13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:679:LEU:HD22	1:A:738:LEU:HD11	1.94	0.50
1:A:683:ILE:HD13	1:A:735:ALA:HB2	1.93	0.50
1:A:700:TYR:CE1	1:A:758:LEU:HD12	2.46	0.50
1:A:983:LEU:HD11	1:A:1356:LEU:HD22	1.92	0.50
1:A:987:ILE:CD1	1:A:1294:ILE:HD12	2.41	0.50
1:A:1111:TYR:CE1	1:A:1121:ASN:HB2	2.47	0.50
1:A:1343:ASN:HD22	1:A:1343:ASN:N	2.08	0.50
1:B:234:GLU:C	1:B:235:TYR:HD2	2.15	0.50
1:B:946:PRO:HD2	1:B:947:ARG:H	1.75	0.50
1:B:1404:ALA:C	1:B:1474:CYS:SG	2.89	0.50
2:Y:193:LEU:HD23	2:Y:221:ILE:HG12	1.93	0.50
1:A:42:GLN:HG3	1:A:80:GLN:NE2	2.25	0.50
1:A:139:GLN:O	1:A:190:ILE:HG12	2.12	0.50
1:A:485:ILE:CG2	1:A:487:THR:HG23	2.41	0.50
1:A:905:ILE:CD1	1:A:931:PRO:HG3	2.42	0.50
1:A:950:TYR:CE2	1:A:1356:LEU:HD11	2.47	0.50
1:A:1210:SER:OG	1:A:1211:ALA:N	2.44	0.50
1:B:59:TYR:CD1	1:B:103:TYR:HE1	2.30	0.50
1:B:159:THR:HG22	1:B:160:VAL:N	2.25	0.50
1:B:256:TYR:C	1:B:257:ASN:HD22	2.14	0.50
1:B:599:TRP:HE3	1:B:778:HIS:O	1.94	0.50
1:B:720:LEU:HD11	1:B:1446:VAL:HG22	1.94	0.50
1:B:902:PRO:O	1:B:903:LEU:HD13	2.11	0.50
1:B:1274:LEU:CB	1:B:1297:LEU:HD11	2.38	0.50
1:B:1488:LEU:HD11	1:B:1510:SER:OG	2.12	0.50
1:A:56:ILE:HD13	1:A:86:THR:H	1.76	0.50
1:A:105:GLU:HA	1:A:114:SER:HB3	1.94	0.50
1:A:161:LEU:CG	1:A:185:PHE:CE1	2.94	0.50
1:A:536:PRO:HG3	1:A:624:PHE:CE2	2.45	0.50
2:X:190:THR:HG22	2:X:200:GLU:HG2	1.93	0.50
1:B:136:THR:HB	1:B:137:PRO:HD2	1.94	0.50
1:B:365:PRO:HD2	1:B:464:TYR:CE2	2.46	0.50
1:B:693:SER:O	1:B:696:LYS:HB3	2.11	0.50
1:B:700:TYR:C	1:B:702:GLY:H	2.14	0.50
1:B:942:VAL:HG22	1:B:957:LYS:HD3	1.94	0.50
1:B:1093:VAL:HG12	1:B:1095:GLN:NE2	2.27	0.50
1:B:1151:GLY:O	1:B:1152:ILE:C	2.48	0.50
1:B:1323:LEU:CG	1:B:1324:HIS:H	2.24	0.50
1:A:224:LEU:HD13	1:A:225:PRO:HD2	1.93	0.50
1:A:1049:LEU:CD2	1:A:1089:VAL:HG13	2.42	0.50
1:A:1082:ALA:O	1:A:1083:LEU:C	2.48	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1128:LYS:HE2	1:A:1129:LEU:O	2.10	0.50
1:A:1434:ALA:CA	1:A:1479:ILE:HG22	2.34	0.50
1:B:234:GLU:C	1:B:235:TYR:CD2	2.85	0.50
1:B:835:ARG:HH21	1:B:971:THR:HG22	1.76	0.50
1:B:1016:VAL:HG12	1:B:1017:PRO:CD	2.41	0.50
1:B:1081:PHE:CE1	1:B:1288:GLN:NE2	2.77	0.50
1:B:1376:SER:O	1:B:1409:LYS:HB2	2.11	0.50
1:B:1429:PRO:HB3	1:B:1488:LEU:HD22	1.94	0.50
1:B:1466:SER:CB	1:B:1468:PRO:HD3	2.42	0.50
1:A:1022:PHE:CE2	1:A:1092:TYR:CG	3.00	0.50
1:A:1299:GLU:O	1:A:1302:LEU:HB2	2.11	0.50
1:A:1466:SER:CB	1:A:1468:PRO:HD3	2.41	0.50
1:B:109:LYS:HD2	1:B:110:HIS:HB2	1.93	0.50
1:B:149:ASN:O	1:B:152:LEU:N	2.41	0.50
1:B:816:LYS:O	1:B:817:ALA:HB2	2.12	0.50
1:B:853:MET:O	1:B:888:VAL:HG22	2.11	0.50
1:B:866:CYS:HB2	1:B:901:LEU:O	2.12	0.50
1:B:1069:TRP:HE1	1:B:1463:GLN:HE21	1.58	0.50
1:A:128:ILE:CG1	1:A:215:ALA:HB2	2.42	0.50
1:A:227:PHE:CE1	1:A:338:GLU:CB	2.94	0.50
1:A:316:GLU:O	1:A:318:LEU:N	2.45	0.50
1:A:478:VAL:O	1:A:478:VAL:HG13	2.12	0.50
1:A:594:THR:HB	1:A:596:MET:O	2.12	0.50
1:A:1240:PRO:O	1:A:1242:THR:HG23	2.11	0.50
1:A:1423:VAL:HG21	1:A:1496:TYR:HE1	1.75	0.50
1:B:150:ASP:OD2	1:B:150:ASP:N	2.45	0.50
1:B:839:ILE:HG13	1:B:840:GLN:N	2.26	0.50
1:B:927:LEU:HD23	1:B:928:ARG:N	2.27	0.50
1:B:1189:ALA:O	1:B:1192:ALA:HB3	2.11	0.50
1:B:1226:ARG:N	1:B:1269:PRO:O	2.31	0.50
1:A:52:ALA:CB	1:A:73:LEU:HD21	2.41	0.50
1:A:260:VAL:HG12	1:A:261:THR:N	2.27	0.50
1:A:395:ILE:O	1:A:429:THR:CG2	2.60	0.50
1:A:485:ILE:HG22	1:A:487:THR:HG23	1.94	0.50
1:A:834:VAL:HG11	1:A:1489:SER:CB	2.42	0.50
1:A:1080:ALA:O	1:A:1083:LEU:HB2	2.12	0.50
1:B:532:GLN:O	1:B:535:VAL:HG22	2.12	0.50
1:B:592:MET:HE1	1:B:784:LYS:O	2.12	0.50
1:B:1115:ASN:C	1:B:1115:ASN:ND2	2.65	0.50
1:B:1334:LEU:O	1:B:1335:GLY:O	2.29	0.50
2:Y:186:TYR:O	2:Y:229:LYS:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:LEU:HD22	1:A:349:LEU:C	2.32	0.49
1:A:777:VAL:HG12	1:A:778:HIS:N	2.26	0.49
1:B:466:TYR:CD1	1:B:466:TYR:C	2.85	0.49
1:B:553:GLU:OE1	1:B:555:VAL:CG2	2.60	0.49
1:B:683:ILE:CD1	1:B:735:ALA:HB2	2.41	0.49
1:A:149:ASN:N	1:A:155:ALA:HB2	2.27	0.49
1:A:330:ILE:HA	1:A:337:SER:HA	1.95	0.49
1:A:467:ILE:HD12	1:A:484:ILE:HD11	1.94	0.49
1:A:800:GLN:O	1:A:800:GLN:HG2	2.11	0.49
1:A:820:PHE:HE2	1:A:848:TYR:HD2	1.57	0.49
1:A:979:VAL:HB	1:A:1326:TYR:OH	2.12	0.49
1:A:1376:SER:O	1:A:1409:LYS:HB2	2.12	0.49
1:B:188:PHE:CD1	1:B:188:PHE:C	2.86	0.49
1:B:412:ARG:HD3	1:B:414:ASP:CG	2.33	0.49
1:B:1421:HIS:CE1	1:B:1498:TYR:CG	2.99	0.49
1:A:85:LEU:H	1:A:85:LEU:CD2	2.20	0.49
1:A:571:LEU:CD2	1:A:600:VAL:HG13	2.42	0.49
1:A:727:ALA:O	1:A:731:CYS:SG	2.71	0.49
1:A:1229:LYS:CD	1:A:1239:VAL:HG12	2.42	0.49
1:A:1245:ALA:HA	1:A:1285:TYR:HB3	1.93	0.49
1:A:1286:SER:OG	1:A:1287:THR:N	2.41	0.49
1:A:1381:ILE:HD13	1:A:1509:TYR:CE1	2.47	0.49
1:B:493:ILE:CG2	1:B:494:ASP:N	2.75	0.49
1:B:849:ARG:CB	1:B:853:MET:HE1	2.42	0.49
1:B:1439:LEU:HD12	1:B:1455:ILE:HD11	1.95	0.49
2:Y:136:LEU:N	2:Y:136:LEU:HD23	2.27	0.49
1:A:128:ILE:HG13	1:A:214:THR:O	2.11	0.49
1:A:440:PRO:HD2	1:A:441:ASP:H	1.77	0.49
1:A:700:TYR:HE1	1:A:758:LEU:CB	2.24	0.49
1:A:825:LEU:HA	1:A:845:VAL:HA	1.94	0.49
1:A:855:PHE:HD1	1:A:856:CYS:N	2.10	0.49
1:A:1183:GLN:O	1:A:1232:LEU:HD22	2.12	0.49
1:A:1332:ASN:O	1:A:1332:ASN:CG	2.51	0.49
1:A:1496:TYR:HB3	1:A:1504:GLN:HG3	1.93	0.49
1:B:52:ALA:CB	1:B:73:LEU:HD21	2.42	0.49
1:B:96:GLN:O	1:B:98:PRO:CD	2.51	0.49
1:B:534:MET:O	1:B:537:SER:O	2.30	0.49
1:B:634:CYS:SG	1:B:635:GLY:N	2.85	0.49
1:B:1024:TYR:HB2	1:B:1298:THR:HG23	1.94	0.49
1:B:1221:ASN:ND2	1:B:1222:PRO:HA	2.27	0.49
1:A:558:SER:OG	1:A:638:GLY:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:765:ILE:HD11	1:A:769:PHE:HE2	1.76	0.49
1:A:906:GLY:N	1:A:929:VAL:HB	2.28	0.49
1:A:982:LEU:HD23	1:A:1309:LEU:CD1	2.42	0.49
1:B:855:PHE:CE2	1:B:888:VAL:HG13	2.47	0.49
1:B:1128:LYS:HE2	1:B:1129:LEU:O	2.12	0.49
1:A:824:PHE:HE1	1:A:846:TYR:HD1	1.59	0.49
1:A:1225:TYR:HD1	1:A:1273:TRP:HB2	1.77	0.49
1:A:1328:MET:O	1:A:1329:THR:HG23	2.11	0.49
2:X:140:LYS:HE3	2:X:228:LEU:HD12	1.93	0.49
1:B:27:ALA:HB1	1:B:28:PRO:HD2	1.95	0.49
1:B:161:LEU:C	1:B:162:THR:HG22	2.31	0.49
1:B:352:TYR:HD1	1:B:375:VAL:HG13	1.77	0.49
1:B:896:VAL:HG12	1:B:897:THR:N	2.27	0.49
1:B:1202:HIS:O	1:B:1204:GLN:N	2.45	0.49
1:A:195:ARG:HH11	1:A:195:ARG:HG2	1.77	0.49
1:A:243:PHE:CE2	1:A:316:GLU:CG	2.95	0.49
1:A:394:THR:CG2	1:A:428:VAL:HG23	2.42	0.49
1:A:707:ASN:HB3	1:A:739:ARG:HH12	1.78	0.49
1:A:781:PRO:O	1:A:782:ARG:HB2	2.13	0.49
1:A:1268:ASN:N	1:A:1269:PRO:CD	2.75	0.49
1:B:224:LEU:HD13	1:B:225:PRO:HD2	1.95	0.49
1:B:1284:PHE:HD2	1:B:1285:TYR:CD1	2.31	0.49
1:A:281:GLU:O	1:A:282:MET:O	2.29	0.49
1:A:922:ILE:HG22	1:A:922:ILE:O	2.12	0.49
1:A:1308:ARG:HG2	1:A:1308:ARG:HH11	1.78	0.49
1:A:1423:VAL:HG22	1:A:1496:TYR:CD1	2.48	0.49
1:A:1439:LEU:CD1	1:A:1455:ILE:HD11	2.42	0.49
1:A:1450:PHE:CZ	1:A:1475:VAL:HB	2.48	0.49
1:B:71:VAL:HG11	1:B:82:SER:O	2.12	0.49
1:B:120:THR:CG2	1:B:121:TYR:N	2.54	0.49
1:B:191:PRO:CG	1:B:194:PRO:HB3	2.41	0.49
1:B:371:ILE:CD1	1:B:390:LEU:HD21	2.42	0.49
1:B:460:LEU:C	1:B:462:GLN:H	2.16	0.49
1:B:703:ALA:HB1	1:B:735:ALA:HB3	1.95	0.49
1:B:982:LEU:CD2	1:B:1309:LEU:CD1	2.90	0.49
1:B:1435:ASN:O	1:B:1436:GLU:C	2.51	0.49
2:Y:166:ASP:OD2	2:Y:201:ILE:HD13	2.12	0.49
1:A:123:ASN:C	1:A:211:THR:HG21	2.34	0.49
1:A:386:VAL:N	1:A:411:THR:HG22	2.23	0.49
1:A:540:LEU:O	1:A:558:SER:HB2	2.13	0.49
1:A:606:ASP:O	1:A:608:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:625:GLN:O	1:A:626:PHE:C	2.51	0.49
1:A:1148:THR:O	1:A:1152:ILE:HD12	2.12	0.49
1:A:1429:PRO:O	1:A:1432:ILE:HG12	2.12	0.49
1:B:51:ASP:OD2	1:B:70:HIS:NE2	2.43	0.49
1:B:58:SER:HB3	1:B:66:TYR:OH	2.12	0.49
1:B:100:SER:O	1:B:101:TYR:CD2	2.66	0.49
1:B:173:MET:O	1:B:174:VAL:CB	2.61	0.49
1:B:395:ILE:O	1:B:429:THR:CG2	2.60	0.49
1:B:494:ASP:HA	1:B:496:ILE:HD11	1.95	0.49
1:B:1432:ILE:O	1:B:1433:SER:C	2.50	0.49
1:A:606:ASP:C	1:A:608:ALA:H	2.16	0.49
1:A:839:ILE:HD11	1:A:1483:PHE:CZ	2.48	0.49
1:A:1076:THR:O	1:A:1079:THR:HB	2.13	0.49
1:A:1132:THR:HG22	1:A:1134:PRO:HD2	1.93	0.49
1:A:1342:LEU:N	1:A:1342:LEU:HD23	2.27	0.49
1:A:1401:ARG:HB2	1:A:1478:ARG:CB	2.43	0.49
1:B:685:GLU:HG3	1:B:686:ILE:CD1	2.42	0.49
1:B:1096:ASN:HD22	1:B:1096:ASN:C	2.15	0.49
2:Y:194:LYS:HG3	2:Y:195:ASP:H	1.78	0.49
1:A:129:HIS:CD2	1:A:129:HIS:O	2.66	0.48
1:A:415:ASP:OD1	1:A:417:VAL:HG23	2.13	0.48
1:A:457:TYR:CD2	1:A:457:TYR:O	2.66	0.48
1:A:855:PHE:CD1	1:A:855:PHE:C	2.86	0.48
1:A:1244:THR:HG23	1:A:1502:ASP:OD2	2.12	0.48
1:B:149:ASN:N	1:B:155:ALA:HB2	2.28	0.48
1:B:438:ASP:C	1:B:439:ALA:O	2.51	0.48
1:B:838:GLN:HA	1:B:901:LEU:HB2	1.95	0.48
1:B:1108:VAL:HG13	1:B:1109:GLU:N	2.28	0.48
1:B:1341:LEU:CB	1:B:1342:LEU:HD23	2.43	0.48
1:A:124:GLY:O	1:A:125:PHE:CG	2.66	0.48
1:A:940:SER:HB2	1:A:959:PHE:CE1	2.48	0.48
1:A:1184:SER:HA	1:A:1232:LEU:CB	2.43	0.48
1:A:1439:LEU:HD12	1:A:1455:ILE:HD11	1.94	0.48
1:B:269:PHE:CD1	1:B:286:ALA:HB1	2.48	0.48
1:B:465:LEU:HD13	1:B:544:TYR:CD1	2.48	0.48
1:B:897:THR:C	1:B:898:PHE:CD2	2.87	0.48
1:B:907:LEU:HD12	1:B:908:HIS:H	1.77	0.48
1:B:1003:LEU:HD22	1:B:1004:PRO:HD2	1.94	0.48
1:B:1317:TYR:CB	1:B:1320:LYS:HB3	2.43	0.48
1:A:27:ALA:CB	1:A:39:ILE:HD12	2.43	0.48
1:A:147:SER:O	1:A:148:LEU:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:ILE:HD12	1:A:777:VAL:HG11	1.96	0.48
1:A:735:ALA:HB1	1:A:754:MET:CE	2.40	0.48
1:A:1008:ALA:CB	1:A:1059:TYR:CD2	2.96	0.48
1:A:1249:GLU:OE2	1:A:1288:GLN:HB3	2.13	0.48
1:A:1381:ILE:CG2	1:A:1509:TYR:CD1	2.97	0.48
1:B:229:VAL:HG22	1:B:252:ALA:HB2	1.95	0.48
1:B:281:GLU:O	1:B:282:MET:O	2.31	0.48
1:B:727:ALA:O	1:B:731:CYS:SG	2.71	0.48
1:B:733:VAL:HG13	1:B:737:GLN:NE2	2.28	0.48
1:B:1047:LYS:C	1:B:1049:LEU:N	2.64	0.48
1:A:53:THR:HA	1:A:69:GLY:O	2.14	0.48
1:A:165:ASP:C	1:A:165:ASP:OD1	2.51	0.48
1:A:352:TYR:CD1	1:A:375:VAL:HG11	2.48	0.48
1:A:365:PRO:HG2	1:A:464:TYR:CE2	2.49	0.48
1:A:686:ILE:C	1:A:688:ALA:N	2.65	0.48
1:A:981:GLY:HA3	1:A:1309:LEU:CD1	2.42	0.48
1:A:1098:ASN:HA	1:A:1101:CYS:HB2	1.95	0.48
1:A:1199:ASP:OD1	1:A:1201:THR:OG1	2.29	0.48
1:A:1427:SER:HB3	1:A:1491:ALA:HB1	1.93	0.48
1:B:38:ASN:C	1:B:39:ILE:HD13	2.30	0.48
1:B:102:VAL:HG13	1:B:119:ILE:HG21	1.95	0.48
1:B:304:GLU:O	1:B:305:THR:C	2.52	0.48
1:B:489:LYS:O	1:B:490:SER:CB	2.62	0.48
1:B:564:GLU:O	1:B:564:GLU:HG3	2.13	0.48
1:B:857:VAL:HG21	1:B:896:VAL:CG1	2.44	0.48
1:B:978:SER:OG	1:B:980:LYS:HD3	2.13	0.48
1:B:1007:SER:OG	1:B:1008:ALA:N	2.47	0.48
1:B:1259:LEU:HD21	1:B:1267:VAL:HG11	1.95	0.48
2:Y:179:LEU:HA	2:Y:184:THR:HB	1.95	0.48
2:Y:217:ASN:HB2	2:Y:220:ASP:CG	2.34	0.48
1:A:208:ASP:O	1:A:209:PHE:CG	2.67	0.48
1:A:357:VAL:O	1:A:359:THR:HG23	2.14	0.48
1:A:373:VAL:CG2	1:A:374:GLN:N	2.75	0.48
1:A:489:LYS:O	1:A:490:SER:CB	2.60	0.48
1:A:589:SER:HB2	1:A:785:GLN:HE21	1.77	0.48
1:A:837:GLU:OE2	1:A:1488:LEU:CA	2.61	0.48
1:A:1408:TYR:CD1	1:A:1409:LYS:N	2.81	0.48
1:A:1509:TYR:C	1:A:1509:TYR:CD2	2.86	0.48
1:B:377:ASP:O	1:B:379:LEU:N	2.47	0.48
1:B:857:VAL:HG12	1:B:914:LEU:HB3	1.94	0.48
1:B:1019:PHE:CE2	1:B:1088:GLN:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1189:ALA:HB1	1:B:1253:TYR:HB2	1.94	0.48
1:B:1244:THR:HB	1:B:1247:MET:H	1.79	0.48
1:A:90:LYS:O	1:A:92:LEU:HG	2.14	0.48
1:A:146:TYR:HE1	1:A:182:ILE:HG23	1.77	0.48
1:A:352:TYR:O	1:A:448:ALA:CB	2.61	0.48
1:A:946:PRO:CB	1:A:1352:PHE:O	2.62	0.48
1:A:969:PRO:O	1:A:971:THR:HG23	2.14	0.48
2:X:153:PHE:CG	2:X:154:SER:N	2.81	0.48
1:B:377:ASP:C	1:B:379:LEU:H	2.17	0.48
1:B:616:ALA:O	1:B:617:LYS:C	2.51	0.48
1:B:830:PRO:HG3	1:B:1483:PHE:CZ	2.48	0.48
1:B:1248:VAL:CG2	1:B:1277:GLU:HG2	2.38	0.48
1:B:1452:ASP:O	1:B:1462:LEU:HA	2.14	0.48
2:Y:146:LEU:HD13	2:Y:146:LEU:C	2.34	0.48
1:A:29:LYS:HE2	1:A:666:ASP:CB	2.38	0.48
1:A:494:ASP:C	1:A:496:ILE:H	2.17	0.48
1:A:588:VAL:CG1	1:A:790:LEU:HD11	2.44	0.48
1:A:634:CYS:HB3	1:A:648:LEU:HD23	1.95	0.48
1:A:1226:ARG:CD	1:A:1266:TYR:CE1	2.96	0.48
1:A:1262:LYS:O	1:A:1264:ILE:HG13	2.14	0.48
1:A:1509:TYR:O	1:A:1509:TYR:CD2	2.66	0.48
2:X:183:THR:HG1	2:X:230:GLN:HB3	1.78	0.48
1:B:494:ASP:C	1:B:496:ILE:HD12	2.33	0.48
1:B:592:MET:CE	1:B:784:LYS:HB3	2.43	0.48
1:B:710:THR:HG23	1:B:713:GLN:OE1	2.14	0.48
1:B:837:GLU:OE2	1:B:1488:LEU:HA	2.13	0.48
1:B:946:PRO:HB3	1:B:1352:PHE:O	2.13	0.48
1:B:1022:PHE:HE2	1:B:1092:TYR:CG	2.32	0.48
1:B:1205:PHE:O	1:B:1209:VAL:HG23	2.13	0.48
1:B:1215:GLU:OE2	1:B:1233:GLN:HB3	2.14	0.48
1:A:77:ASN:HD22	1:A:81:ASN:ND2	2.11	0.48
1:A:83:ALA:O	1:A:85:LEU:HD22	2.14	0.48
1:A:423:ASN:ND2	1:A:423:ASN:H	2.11	0.48
1:A:505:SER:CB	1:A:510:ILE:HD11	2.43	0.48
1:A:716:ALA:C	1:A:718:ILE:H	2.17	0.48
1:A:837:GLU:C	1:A:901:LEU:HD12	2.34	0.48
1:A:1228:TRP:H	1:A:1251:THR:HG22	1.77	0.48
1:B:66:TYR:HD1	1:B:90:LYS:CE	2.03	0.48
1:B:100:SER:O	1:B:101:TYR:CB	2.61	0.48
1:B:105:GLU:HA	1:B:114:SER:HB3	1.95	0.48
1:B:486:VAL:O	1:B:486:VAL:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:975:ARG:O	1:B:1339:GLU:HA	2.14	0.48
1:B:1189:ALA:HB1	1:B:1253:TYR:CB	2.44	0.48
1:B:1203:PRO:O	1:B:1206:ARG:CB	2.61	0.48
1:A:159:THR:HG23	1:A:204:LYS:O	2.13	0.48
1:A:162:THR:O	1:A:164:ILE:HG13	2.13	0.48
1:A:317:ASP:C	1:A:319:ASN:N	2.64	0.48
1:A:361:LEU:HD12	1:A:361:LEU:N	2.29	0.48
1:A:409:SER:OG	1:A:410:VAL:N	2.47	0.48
1:A:707:ASN:HB3	1:A:739:ARG:HH22	1.78	0.48
1:A:1280:TYR:HD1	1:A:1362:THR:CG2	2.25	0.48
1:A:1507:MET:HG2	1:A:1508:PHE:O	2.13	0.48
1:B:349:LEU:CD2	1:B:446:ASN:HD22	2.27	0.48
1:B:394:THR:CG2	1:B:428:VAL:HG23	2.44	0.48
1:B:825:LEU:HD11	1:B:827:MET:SD	2.54	0.48
1:B:978:SER:N	1:B:1360:HIS:O	2.43	0.48
1:B:1240:PRO:O	1:B:1242:THR:HG23	2.13	0.48
1:B:1296:GLY:O	1:B:1299:GLU:N	2.47	0.48
1:A:44:TYR:HE1	1:A:497:THR:OG1	1.79	0.48
1:A:88:GLN:HB3	1:A:89:PRO:HD2	1.94	0.48
1:A:349:LEU:CD2	1:A:446:ASN:HD22	2.27	0.48
1:A:393:GLN:O	1:A:431:LEU:HD23	2.13	0.48
1:A:602:LEU:HD12	1:A:774:LEU:HD22	1.96	0.48
1:A:1128:LYS:HZ1	1:A:1415:SER:HB3	1.78	0.48
1:B:304:GLU:O	1:B:305:THR:O	2.32	0.48
1:B:503:ILE:HG12	1:B:540:LEU:CB	2.42	0.48
1:B:505:SER:O	1:B:506:LYS:HB2	2.14	0.48
1:B:593:ALA:HA	1:B:782:ARG:O	2.13	0.48
1:B:833:VAL:O	1:B:929:VAL:HA	2.14	0.48
1:B:938:SER:OG	1:B:1279:ARG:NH1	2.47	0.48
1:B:1290:THR:HA	1:B:1293:ALA:HB3	1.96	0.48
1:B:1496:TYR:O	1:B:1496:TYR:HD1	1.96	0.48
1:A:395:ILE:HA	1:A:400:GLU:O	2.14	0.47
1:A:637:GLY:O	1:A:638:GLY:O	2.32	0.47
1:A:977:LEU:HD13	1:A:1346:LEU:CD2	2.44	0.47
1:A:1056:ILE:O	1:A:1058:SER:N	2.47	0.47
1:B:88:GLN:HB3	1:B:89:PRO:CD	2.43	0.47
1:B:292:LEU:HD22	1:B:296:ILE:C	2.34	0.47
1:B:792:ASP:O	1:B:793:SER:HB2	2.14	0.47
1:B:1217:LEU:O	1:B:1218:VAL:CG1	2.53	0.47
1:A:692:HIS:NE2	1:A:694:VAL:HG23	2.28	0.47
1:A:1049:LEU:HD21	1:A:1089:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1053:MET:HE1	1:A:1086:LEU:HD13	1.94	0.47
1:A:1196:SER:HB2	1:A:1257:THR:HG23	1.96	0.47
1:A:1203:PRO:O	1:A:1206:ARG:HB2	2.13	0.47
1:A:1227:PHE:HA	1:A:1228:TRP:HE3	1.78	0.47
1:A:1284:PHE:HD2	1:A:1285:TYR:CD1	2.32	0.47
1:B:23:TYR:O	1:B:655:THR:HG23	2.14	0.47
1:B:515:ARG:HH22	1:B:527:ASN:H	1.60	0.47
1:B:646:PHE:O	1:B:651:LEU:HB2	2.14	0.47
1:B:942:VAL:HG23	1:B:959:PHE:HZ	1.78	0.47
1:B:1200:LYS:HE3	1:B:1261:LEU:HD23	1.96	0.47
1:A:41:ILE:HD13	1:A:73:LEU:HD22	1.96	0.47
1:A:61:ASP:OD1	1:A:63:LYS:HB2	2.14	0.47
1:A:198:MET:HE1	1:A:218:GLU:HB2	1.96	0.47
1:A:647:HIS:C	1:A:649:ALA:N	2.67	0.47
1:A:1056:ILE:HD11	1:A:1066:TYR:CE2	2.49	0.47
1:A:1153:ARG:O	1:A:1154:LYS:C	2.52	0.47
1:A:1204:GLN:O	1:A:1207:SER:N	2.47	0.47
1:B:466:TYR:CD1	1:B:467:ILE:N	2.82	0.47
1:B:718:ILE:HG12	1:B:1446:VAL:O	2.15	0.47
1:B:1117:SER:HB3	1:B:1174:PHE:CD1	2.49	0.47
1:B:1173:ASN:O	1:B:1174:PHE:C	2.52	0.47
1:B:1244:THR:O	1:B:1285:TYR:CD2	2.67	0.47
1:A:96:GLN:O	1:A:98:PRO:CD	2.52	0.47
1:A:123:ASN:HD22	1:A:124:GLY:N	2.11	0.47
1:A:351:PRO:O	1:A:377:ASP:HA	2.15	0.47
1:A:1157:ASP:C	1:A:1160:PRO:HD3	2.34	0.47
1:A:1379:LEU:HD12	1:A:1507:MET:HE2	1.96	0.47
2:X:150:ILE:O	2:X:150:ILE:HG13	2.14	0.47
1:B:260:VAL:HG12	1:B:261:THR:N	2.29	0.47
1:B:431:LEU:C	1:B:431:LEU:CD2	2.83	0.47
1:B:520:ASP:CG	1:B:521:ALA:N	2.66	0.47
1:B:558:SER:OG	1:B:638:GLY:N	2.46	0.47
1:B:905:ILE:CD1	1:B:931:PRO:HG3	2.44	0.47
1:B:935:LYS:HA	1:B:935:LYS:HD2	1.67	0.47
1:B:938:SER:HB3	1:B:1362:THR:OG1	2.14	0.47
1:B:1453:TYR:HA	1:B:1462:LEU:HD23	1.96	0.47
1:A:129:HIS:CD2	1:A:129:HIS:C	2.86	0.47
1:A:396:ASP:N	1:A:400:GLU:O	2.39	0.47
1:A:564:GLU:HG3	1:A:564:GLU:O	2.14	0.47
1:A:592:MET:HE2	1:A:780:VAL:HG21	1.96	0.47
1:A:700:TYR:C	1:A:702:GLY:H	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:707:ASN:HB3	1:A:739:ARG:NH1	2.30	0.47
1:A:1024:TYR:HB2	1:A:1298:THR:CG2	2.44	0.47
1:A:1053:MET:HE1	1:A:1086:LEU:HD22	1.96	0.47
1:A:1090:ASN:HD21	1:A:1158:ILE:CG2	2.18	0.47
1:A:1174:PHE:O	1:A:1178:ASN:HB2	2.14	0.47
1:A:1346:LEU:HD12	1:A:1347:ILE:H	1.78	0.47
1:B:85:LEU:H	1:B:85:LEU:CD2	2.26	0.47
1:B:352:TYR:O	1:B:448:ALA:CB	2.61	0.47
1:B:481:HIS:HE1	1:B:529:PRO:HG3	1.79	0.47
1:B:569:ASN:ND2	1:B:598:SER:HB2	2.29	0.47
1:B:606:ASP:C	1:B:608:ALA:N	2.68	0.47
1:B:680:GLN:O	1:B:680:GLN:HG2	2.14	0.47
1:B:896:VAL:O	1:B:897:THR:CG2	2.60	0.47
1:B:1031:TRP:HA	1:B:1031:TRP:CE3	2.50	0.47
1:B:1050:LYS:O	1:B:1053:MET:CB	2.63	0.47
1:B:1439:LEU:CD1	1:B:1455:ILE:HD11	2.45	0.47
1:A:157:ARG:NH1	1:A:209:PHE:CD1	2.82	0.47
1:A:183:ILE:CG2	1:A:185:PHE:CE2	2.97	0.47
1:A:867:THR:HG23	1:A:900:VAL:HG12	1.95	0.47
1:A:987:ILE:HD11	1:A:1294:ILE:HD13	1.97	0.47
1:A:987:ILE:O	1:A:1021:VAL:HG21	2.13	0.47
1:A:1381:ILE:HG21	1:A:1509:TYR:CD1	2.49	0.47
1:A:1401:ARG:HB2	1:A:1478:ARG:CA	2.44	0.47
1:B:394:THR:CG2	1:B:395:ILE:N	2.78	0.47
1:B:440:PRO:HD2	1:B:441:ASP:H	1.80	0.47
1:B:531:THR:HG23	1:B:533:ASN:HB2	1.97	0.47
1:B:653:PHE:O	1:B:660:ASP:HB2	2.14	0.47
1:B:1290:THR:O	1:B:1290:THR:HG22	2.14	0.47
1:B:1325:ASN:O	1:B:1325:ASN:ND2	2.48	0.47
1:A:177:ILE:HD11	1:A:179:HIS:HB2	1.96	0.47
1:A:390:LEU:O	1:A:390:LEU:HG	2.15	0.47
1:A:394:THR:CG2	1:A:395:ILE:N	2.77	0.47
1:A:430:VAL:HA	1:A:454:ALA:O	2.15	0.47
1:A:430:VAL:HG22	1:A:455:ILE:HG12	1.97	0.47
1:A:488:PRO:HG2	1:A:499:TYR:OH	2.15	0.47
1:A:523:TYR:O	1:A:524:GLN:HB3	2.15	0.47
1:A:602:LEU:HB2	1:A:774:LEU:O	2.15	0.47
1:A:635:GLY:C	1:A:673:LEU:HA	2.35	0.47
1:A:707:ASN:HB3	1:A:739:ARG:NH2	2.29	0.47
1:A:975:ARG:HB3	1:A:1363:THR:HA	1.96	0.47
1:A:1019:PHE:HE2	1:A:1020:TYR:CE1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1021:VAL:O	1:A:1025:LEU:HG	2.14	0.47
1:A:1152:ILE:O	1:A:1156:PHE:HB2	2.14	0.47
2:X:158:GLU:HA	2:X:219:LYS:NZ	2.30	0.47
1:B:30:ILE:HG23	1:B:119:ILE:HA	1.96	0.47
1:B:543:TYR:HB3	1:B:556:SER:HB3	1.96	0.47
1:B:621:GLU:O	1:B:625:GLN:HG3	2.15	0.47
1:B:659:ALA:C	1:B:661:ASP:H	2.18	0.47
1:B:933:GLY:HA3	1:B:1367:LYS:O	2.14	0.47
1:B:1047:LYS:O	1:B:1048:LYS:C	2.53	0.47
1:B:1080:ALA:HA	1:B:1083:LEU:HD12	1.97	0.47
1:B:1155:ALA:O	1:B:1158:ILE:HG13	2.15	0.47
1:B:1268:ASN:N	1:B:1269:PRO:HD3	2.29	0.47
1:B:1271:ILE:O	1:B:1271:ILE:CD1	2.61	0.47
1:B:1280:TYR:C	1:B:1280:TYR:CD2	2.86	0.47
1:B:1404:ALA:O	1:B:1474:CYS:SG	2.73	0.47
2:Y:159:GLU:O	2:Y:159:GLU:HG2	2.14	0.47
2:Y:179:LEU:HD12	2:Y:180:TYR:N	2.29	0.47
1:A:323:LEU:HB3	1:A:345:ILE:HB	1.97	0.47
1:A:708:ASP:OD2	1:A:1476:ARG:HD2	2.15	0.47
1:A:922:ILE:HG21	3:C:1:NAG:C7	2.44	0.47
1:A:1084:ARG:O	1:A:1088:GLN:HG3	2.15	0.47
1:A:1136:GLU:O	1:A:1140:ASN:N	2.32	0.47
1:A:1378:TYR:CE1	1:A:1409:LYS:HE3	2.49	0.47
1:A:1379:LEU:HD22	1:A:1493:PHE:HE2	1.79	0.47
1:A:1507:MET:HE3	1:A:1507:MET:HB3	1.73	0.47
2:X:136:LEU:HD23	2:X:136:LEU:H	1.80	0.47
2:X:226:VAL:HG12	2:X:227:THR:N	2.30	0.47
1:B:271:ILE:HD11	1:B:283:MET:SD	2.55	0.47
1:B:351:PRO:O	1:B:377:ASP:HA	2.14	0.47
1:B:352:TYR:HE2	1:B:442:LEU:HD11	1.80	0.47
1:B:536:PRO:HG3	1:B:624:PHE:CE2	2.48	0.47
1:A:232:GLU:HA	1:A:233:PRO:HD3	1.59	0.47
1:A:382:LEU:HD22	1:A:416:GLY:HA3	1.97	0.47
1:A:1076:THR:HG22	1:A:1120:GLU:HA	1.97	0.47
1:A:1115:ASN:HD22	1:A:1117:SER:H	1.61	0.47
1:A:1251:THR:HG21	1:A:1273:TRP:CH2	2.50	0.47
1:A:1434:ALA:CB	1:A:1477:PHE:CE1	2.98	0.47
1:B:214:THR:CG2	1:B:215:ALA:N	2.77	0.47
1:B:475:ALA:C	1:B:476:LEU:HD23	2.35	0.47
1:B:547:THR:O	1:B:547:THR:HG22	2.15	0.47
1:B:1309:LEU:O	1:B:1310:SER:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:SER:HB3	1:A:66:TYR:OH	2.14	0.47
1:A:86:THR:HG23	1:A:86:THR:O	2.15	0.47
1:A:110:HIS:CD2	1:A:110:HIS:O	2.68	0.47
1:A:304:GLU:O	1:A:305:THR:C	2.52	0.47
1:A:515:ARG:CZ	1:A:526:ILE:HG23	2.45	0.47
1:A:857:VAL:HG21	1:A:896:VAL:CG1	2.44	0.47
1:A:1172:ASP:O	1:A:1175:LEU:HB2	2.15	0.47
1:A:1180:LEU:HD23	1:A:1180:LEU:HA	1.53	0.47
1:A:1423:VAL:HG22	1:A:1496:TYR:CE1	2.49	0.47
2:X:150:ILE:HD12	2:X:151:ASP:N	2.29	0.47
1:B:431:LEU:O	1:B:453:ARG:HA	2.15	0.47
1:B:1153:ARG:O	1:B:1154:LYS:C	2.52	0.47
1:B:1174:PHE:O	1:B:1178:ASN:HB2	2.15	0.47
1:B:1229:LYS:CD	1:B:1239:VAL:HG12	2.41	0.47
1:B:1401:ARG:HA	1:B:1478:ARG:HA	1.96	0.47
1:A:155:ALA:O	1:A:156:LYS:C	2.53	0.46
1:A:539:ARG:NH1	1:A:631:ASP:OD1	2.49	0.46
1:A:835:ARG:HH21	1:A:971:THR:HG22	1.79	0.46
1:A:838:GLN:H	1:A:1486:GLY:HA3	1.80	0.46
1:A:1024:TYR:HB2	1:A:1298:THR:HG23	1.98	0.46
1:A:1153:ARG:CZ	1:A:1168:LEU:HD22	2.45	0.46
1:A:1432:ILE:O	1:A:1433:SER:O	2.33	0.46
2:X:208:GLN:O	2:X:212:MET:HG3	2.14	0.46
1:B:175:GLU:O	1:B:176:GLU:HB2	2.15	0.46
1:B:307:VAL:HG12	1:B:313:TYR:O	2.15	0.46
1:B:542:VAL:C	1:B:556:SER:HB2	2.35	0.46
1:B:692:HIS:NE2	1:B:694:VAL:HG23	2.30	0.46
1:B:886:GLN:HG3	1:B:887:LYS:H	1.80	0.46
1:B:1105:LEU:O	1:B:1109:GLU:HG3	2.15	0.46
1:B:1113:LEU:N	1:B:1117:SER:O	2.46	0.46
1:B:1278:GLN:O	1:B:1360:HIS:NE2	2.48	0.46
1:B:1370:THR:O	1:B:1370:THR:CG2	2.63	0.46
1:A:1247:MET:HB2	1:A:1247:MET:HE3	1.77	0.46
1:A:1488:LEU:HD12	1:A:1488:LEU:C	2.34	0.46
1:B:386:VAL:O	1:B:410:VAL:HG13	2.16	0.46
1:B:488:PRO:HG2	1:B:499:TYR:OH	2.15	0.46
1:B:600:VAL:HG12	1:B:601:ALA:H	1.80	0.46
1:B:968:VAL:HG23	1:B:971:THR:HG21	1.98	0.46
1:B:975:ARG:HB3	1:B:1363:THR:HA	1.96	0.46
1:B:976:ILE:HG22	1:B:977:LEU:H	1.79	0.46
1:B:1016:VAL:O	1:B:1018:VAL:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1087:GLY:HA3	1:B:1155:ALA:HA	1.96	0.46
1:A:461:SER:C	1:A:463:SER:H	2.18	0.46
1:A:477:LEU:HA	1:A:564:GLU:CG	2.45	0.46
1:A:520:ASP:CG	1:A:521:ALA:N	2.68	0.46
1:A:964:PRO:HG2	1:A:1365:VAL:HG11	1.98	0.46
1:A:1202:HIS:CD2	1:A:1204:GLN:HB3	2.50	0.46
1:A:1310:SER:O	1:A:1311:MET:O	2.32	0.46
1:B:24:VAL:HG11	1:B:543:TYR:OH	2.15	0.46
1:B:25:ILE:HD13	1:B:41:ILE:HB	1.98	0.46
1:B:697:LYS:HE3	1:B:701:ASP:OD2	2.15	0.46
1:B:1003:LEU:CD1	1:B:1498:TYR:CE1	2.98	0.46
1:B:1024:TYR:CE2	1:B:1030:HIS:HD2	2.27	0.46
1:B:1440:LYS:NZ	1:B:1453:TYR:OH	2.45	0.46
2:Y:183:THR:HB	2:Y:230:GLN:HB3	1.97	0.46
1:A:220:LYS:HG2	1:A:763:PRO:HB3	1.97	0.46
1:A:234:GLU:HG3	1:A:247:GLU:HB3	1.98	0.46
1:A:313:TYR:CE2	1:A:321:LYS:HD2	2.50	0.46
1:A:373:VAL:HG23	1:A:374:GLN:H	1.80	0.46
1:A:385:GLY:H	1:A:411:THR:HG23	1.79	0.46
1:A:478:VAL:O	1:A:478:VAL:CG1	2.62	0.46
1:A:544:TYR:HE1	1:A:555:VAL:CG1	2.27	0.46
1:A:976:ILE:O	1:A:1361:VAL:HG22	2.16	0.46
1:A:1003:LEU:CD1	1:A:1498:TYR:CE1	2.97	0.46
1:A:1129:LEU:HD23	1:A:1246:ARG:HH12	1.79	0.46
1:A:1244:THR:O	1:A:1285:TYR:HD2	1.98	0.46
1:A:1251:THR:OG1	1:A:1273:TRP:HZ3	1.94	0.46
1:A:1256:LEU:HD21	1:A:1295:GLU:HG2	1.97	0.46
1:B:240:TYR:CD1	1:B:240:TYR:C	2.86	0.46
1:B:544:TYR:CE1	1:B:555:VAL:CG1	2.99	0.46
1:B:1129:LEU:CD1	1:B:1139:GLU:HB3	2.45	0.46
1:B:1162:VAL:CG2	1:B:1163:LYS:H	2.15	0.46
1:A:73:LEU:HD12	1:A:79:PHE:CD2	2.49	0.46
1:A:123:ASN:C	1:A:123:ASN:ND2	2.66	0.46
1:A:191:PRO:C	1:A:193:ASN:N	2.69	0.46
1:A:365:PRO:HD2	1:A:464:TYR:CE2	2.49	0.46
1:A:1008:ALA:HB3	1:A:1078:LEU:CD1	2.46	0.46
1:A:1008:ALA:O	1:A:1009:GLU:C	2.53	0.46
1:B:157:ARG:NH1	1:B:209:PHE:CD1	2.84	0.46
1:B:189:LYS:HG3	1:B:190:ILE:O	2.15	0.46
1:B:685:GLU:HG3	1:B:686:ILE:HD13	1.96	0.46
1:B:966:ASP:O	1:B:1368:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:987:ILE:CD1	1:B:1294:ILE:CD1	2.93	0.46
1:B:1263:ASP:OD1	1:B:1266:TYR:HB2	2.16	0.46
1:A:23:TYR:HE1	1:A:656:ASN:H	1.63	0.46
1:A:588:VAL:HG11	1:A:790:LEU:HD11	1.97	0.46
1:A:830:PRO:HG3	1:A:1483:PHE:CZ	2.51	0.46
1:A:916:THR:HG22	1:A:917:TRP:N	2.31	0.46
1:A:933:GLY:HA3	1:A:1367:LYS:O	2.15	0.46
1:A:1085:VAL:O	1:A:1089:VAL:HG23	2.15	0.46
1:A:1320:LYS:HG2	1:A:1342:LEU:CD1	2.45	0.46
1:B:144:ARG:HG2	1:B:775:TRP:CZ2	2.50	0.46
1:B:193:ASN:OD1	1:B:1070:LYS:HE2	2.15	0.46
1:B:388:VAL:HG21	1:B:418:ALA:CB	2.46	0.46
1:B:503:ILE:HB	1:B:511:HIS:HB2	1.96	0.46
1:B:608:ALA:O	1:B:609:VAL:O	2.34	0.46
1:B:656:ASN:O	1:B:657:ALA:HB2	2.16	0.46
1:B:711:CYS:HB3	1:B:729:THR:HG22	1.97	0.46
1:B:799:ILE:O	1:B:799:ILE:CG1	2.64	0.46
1:B:1104:LEU:HD12	1:B:1159:CYS:HB3	1.98	0.46
1:B:1307:LEU:H	1:B:1307:LEU:HD12	1.81	0.46
1:B:1492:THR:HG22	1:B:1508:PHE:CD1	2.50	0.46
1:A:504:LEU:CD1	1:A:509:ILE:HG12	2.46	0.46
1:A:576:SER:HB3	1:A:577:PRO:HD3	1.96	0.46
1:A:855:PHE:CE1	1:A:886:GLN:CB	2.98	0.46
1:A:978:SER:OG	1:A:980:LYS:HD3	2.15	0.46
1:A:987:ILE:CD1	1:A:1294:ILE:CD1	2.94	0.46
1:A:1008:ALA:HB3	1:A:1078:LEU:HD11	1.98	0.46
1:A:1097:GLN:O	1:A:1099:SER:N	2.49	0.46
1:A:1249:GLU:HG2	1:A:1253:TYR:CE2	2.50	0.46
2:X:134:THR:CG2	2:X:153:PHE:HB3	2.43	0.46
1:B:313:TYR:CZ	1:B:321:LYS:HD2	2.51	0.46
1:B:586:GLN:O	1:B:790:LEU:HD12	2.14	0.46
1:B:862:VAL:HG21	1:B:909:ASN:O	2.16	0.46
1:B:1317:TYR:HB2	1:B:1320:LYS:HB3	1.97	0.46
1:A:161:LEU:HD13	1:A:163:PHE:CE1	2.51	0.46
1:A:234:GLU:HB3	1:A:235:TYR:HD2	1.79	0.46
1:A:265:VAL:HG23	1:A:292:LEU:N	2.29	0.46
1:A:397:VAL:C	1:A:399:GLN:H	2.19	0.46
1:A:478:VAL:HG12	1:A:564:GLU:OE1	2.16	0.46
1:A:1028:GLY:O	1:A:1030:HIS:CD2	2.69	0.46
1:A:1205:PHE:CZ	1:A:1209:VAL:HG21	2.51	0.46
1:A:1263:ASP:OD1	1:A:1266:TYR:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:VAL:O	1:B:116:ARG:HA	2.16	0.46
1:B:135:TYR:CZ	1:B:141:VAL:HG22	2.51	0.46
1:B:144:ARG:O	1:B:145:VAL:HG23	2.16	0.46
1:B:272:ARG:O	1:B:273:GLU:OE2	2.34	0.46
1:B:363:LEU:HD21	1:B:431:LEU:HB2	1.97	0.46
1:B:594:THR:HB	1:B:596:MET:O	2.16	0.46
1:B:1117:SER:HB3	1:B:1174:PHE:CE1	2.51	0.46
1:A:137:PRO:HG3	1:A:196:TYR:OH	2.16	0.46
1:A:849:ARG:CG	1:A:853:MET:HE1	2.41	0.46
1:A:1280:TYR:HD1	1:A:1362:THR:HG22	1.81	0.46
1:B:30:ILE:CG2	1:B:119:ILE:HA	2.46	0.46
1:B:31:PHE:HB2	1:B:119:ILE:HB	1.98	0.46
1:B:324:TYR:C	1:B:324:TYR:CD2	2.88	0.46
1:B:330:ILE:HA	1:B:337:SER:HA	1.98	0.46
1:B:504:LEU:HD12	1:B:509:ILE:HA	1.97	0.46
1:B:857:VAL:HA	1:B:913:SER:O	2.15	0.46
1:B:967:LEU:HD12	1:B:968:VAL:H	1.81	0.46
1:B:1180:LEU:HD23	1:B:1180:LEU:HA	1.63	0.46
1:B:1244:THR:CG2	1:B:1245:ALA:N	2.78	0.46
1:B:1348:VAL:HG21	1:B:1359:VAL:CG1	2.42	0.46
2:Y:143:GLY:C	2:Y:145:ASN:N	2.68	0.46
2:Y:179:LEU:O	2:Y:180:TYR:HB2	2.16	0.46
2:Y:222:ASN:O	2:Y:223:LYS:HG3	2.16	0.46
1:A:486:VAL:HG21	1:A:526:ILE:CD1	2.45	0.46
1:A:694:VAL:O	1:A:698:CYS:SG	2.74	0.46
1:A:834:VAL:O	1:A:835:ARG:C	2.52	0.46
1:A:1043:GLN:OE1	1:A:1043:GLN:HA	2.15	0.46
1:A:1273:TRP:CZ3	1:A:1274:LEU:CD2	2.99	0.46
1:A:1318:LYS:HA	1:A:1347:ILE:HD11	1.98	0.46
1:B:115:LYS:HE2	1:B:117:MET:CE	2.46	0.46
1:B:327:VAL:HG12	1:B:328:THR:N	2.31	0.46
1:B:492:TYR:OH	1:B:548:GLY:HA2	2.16	0.46
1:B:834:VAL:HG12	1:B:835:ARG:O	2.15	0.46
1:B:1049:LEU:HD21	1:B:1089:VAL:HG13	1.97	0.46
1:A:177:ILE:O	1:A:177:ILE:HG13	2.16	0.45
1:A:227:PHE:CE1	1:A:338:GLU:HB2	2.51	0.45
1:A:466:TYR:CD1	1:A:467:ILE:N	2.83	0.45
1:A:539:ARG:NH2	1:A:634:CYS:C	2.69	0.45
1:A:540:LEU:CD1	1:A:540:LEU:C	2.84	0.45
1:A:653:PHE:CE1	1:A:660:ASP:HB3	2.52	0.45
1:A:950:TYR:CE1	1:A:1271:ILE:HD11	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1225:TYR:CE1	1:A:1272:LYS:HG3	2.51	0.45
1:A:1283:GLY:CA	1:A:1290:THR:CG2	2.92	0.45
1:A:1439:LEU:HD13	1:A:1453:TYR:HD2	1.81	0.45
1:B:157:ARG:O	1:B:178:ASP:CB	2.63	0.45
1:B:271:ILE:HG22	1:B:272:ARG:H	1.81	0.45
1:B:543:TYR:HA	1:B:555:VAL:O	2.16	0.45
1:A:183:ILE:HG22	1:A:185:PHE:CE2	2.52	0.45
1:A:235:TYR:N	1:A:235:TYR:HD2	2.13	0.45
1:A:387:PRO:HG2	1:A:438:ASP:C	2.37	0.45
1:A:609:VAL:CG2	1:A:610:TYR:N	2.51	0.45
1:A:625:GLN:C	1:A:629:LYS:HE2	2.36	0.45
1:A:984:VAL:CG1	1:A:1024:TYR:CE1	2.84	0.45
1:A:1012:LEU:O	1:A:1015:VAL:HG13	2.16	0.45
1:A:1169:ILE:C	1:A:1171:ALA:N	2.67	0.45
1:A:1412:ARG:O	1:A:1413:GLU:HB2	2.17	0.45
1:A:1432:ILE:HG21	1:A:1479:ILE:HD12	1.97	0.45
2:X:217:ASN:ND2	2:X:220:ASP:OD2	2.47	0.45
1:B:42:GLN:HB2	1:B:80:GLN:NE2	2.32	0.45
1:B:177:ILE:HG13	1:B:177:ILE:O	2.15	0.45
1:B:938:SER:CB	1:B:1362:THR:HA	2.47	0.45
1:B:977:LEU:HD21	1:B:1315:VAL:HG21	1.99	0.45
1:B:1041:GLU:O	1:B:1045:LEU:HG	2.16	0.45
1:B:1503:LYS:N	1:B:1503:LYS:CD	2.78	0.45
1:A:316:GLU:HB3	1:A:317:ASP:H	1.54	0.45
1:A:829:ILE:HD11	1:A:925:LYS:HG2	1.98	0.45
1:A:1244:THR:N	1:A:1285:TYR:CE2	2.85	0.45
1:A:1313:ILE:HG22	1:A:1314:ASP:H	1.78	0.45
1:A:1317:TYR:CB	1:A:1320:LYS:HB3	2.47	0.45
1:A:1488:LEU:HD11	1:A:1510:SER:OG	2.16	0.45
2:X:159:GLU:O	2:X:159:GLU:HG2	2.17	0.45
1:B:37:GLU:OE1	1:B:37:GLU:HA	2.17	0.45
1:B:57:LYS:HG2	1:B:64:PHE:O	2.16	0.45
1:B:592:MET:HG2	1:B:600:VAL:HG21	1.97	0.45
1:B:654:LEU:HD12	1:B:654:LEU:HA	1.55	0.45
1:A:23:TYR:N	1:A:23:TYR:CD1	2.81	0.45
1:A:109:LYS:HD2	1:A:110:HIS:HB2	1.98	0.45
1:A:160:VAL:O	1:A:160:VAL:HG12	2.13	0.45
1:A:544:TYR:CE1	1:A:555:VAL:CG1	2.98	0.45
1:A:754:MET:O	1:A:755:LYS:CG	2.65	0.45
1:A:835:ARG:NH1	1:A:835:ARG:CG	2.77	0.45
1:A:1049:LEU:O	1:A:1050:LYS:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1466:SER:C	1:A:1468:PRO:HD3	2.37	0.45
1:B:57:LYS:HD2	1:B:105:GLU:OE1	2.17	0.45
1:B:432:GLU:OE2	1:B:453:ARG:NH2	2.50	0.45
1:B:586:GLN:O	1:B:789:ALA:HA	2.16	0.45
1:B:927:LEU:HD22	1:B:929:VAL:HG22	1.97	0.45
1:B:1008:ALA:N	1:B:1068:VAL:O	2.50	0.45
1:B:1023:HIS:CD2	1:B:1092:TYR:OH	2.69	0.45
1:B:1202:HIS:O	1:B:1205:PHE:N	2.49	0.45
1:A:161:LEU:HG	1:A:161:LEU:H	1.61	0.45
1:A:319:ASN:OD1	1:A:321:LYS:HG2	2.17	0.45
1:A:412:ARG:HD3	1:A:414:ASP:OD2	2.16	0.45
1:A:685:GLU:HG3	1:A:686:ILE:HD13	1.98	0.45
1:A:729:THR:O	1:A:733:VAL:HG23	2.16	0.45
1:A:977:LEU:HD13	1:A:1346:LEU:HD21	1.99	0.45
1:A:1143:TYR:CE2	1:A:1147:PHE:HD1	2.35	0.45
1:A:1200:LYS:HE3	1:A:1261:LEU:CD2	2.46	0.45
1:B:498:HIS:HB3	1:B:514:THR:HG21	1.98	0.45
1:B:599:TRP:CE3	1:B:778:HIS:O	2.70	0.45
1:B:1040:ILE:HD13	1:B:1040:ILE:HA	1.78	0.45
1:B:1311:MET:HG2	1:B:1350:THR:OG1	2.17	0.45
1:A:23:TYR:H	1:A:23:TYR:HD1	1.65	0.45
1:A:27:ALA:O	1:A:28:PRO:O	2.35	0.45
1:A:148:LEU:HD23	1:A:152:LEU:HD12	1.98	0.45
1:A:656:ASN:O	1:A:657:ALA:HB2	2.17	0.45
1:A:1188:LEU:HD12	1:A:1188:LEU:HA	1.70	0.45
2:X:184:THR:O	2:X:185:LYS:HB3	2.16	0.45
1:B:42:GLN:HB2	1:B:80:GLN:CD	2.37	0.45
1:B:240:TYR:CD1	1:B:240:TYR:O	2.70	0.45
1:B:290:THR:O	1:B:290:THR:HG22	2.17	0.45
1:B:397:VAL:C	1:B:399:GLN:H	2.20	0.45
1:B:498:HIS:HB3	1:B:514:THR:HG23	1.99	0.45
1:B:590:LEU:HD12	1:B:591:ASN:N	2.31	0.45
1:B:913:SER:HA	1:B:921:GLU:O	2.17	0.45
1:B:1080:ALA:O	1:B:1083:LEU:HB2	2.17	0.45
1:B:1509:TYR:CD2	1:B:1509:TYR:C	2.87	0.45
1:A:100:SER:O	1:A:101:TYR:HD2	2.00	0.45
1:A:169:SER:O	1:A:171:VAL:HG23	2.17	0.45
1:A:589:SER:HA	1:A:787:GLN:HA	1.98	0.45
1:A:659:ALA:C	1:A:661:ASP:H	2.20	0.45
1:A:1007:SER:OG	1:A:1008:ALA:N	2.50	0.45
1:A:1205:PHE:CE2	1:A:1209:VAL:HG21	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1274:LEU:CB	1:A:1297:LEU:HD11	2.44	0.45
1:B:194:PRO:HA	1:B:1058:SER:OG	2.16	0.45
1:B:232:GLU:HA	1:B:233:PRO:HD3	1.57	0.45
1:B:492:TYR:CD2	1:B:492:TYR:C	2.87	0.45
1:B:820:PHE:CZ	1:B:848:TYR:HD2	2.34	0.45
1:B:820:PHE:HE2	1:B:848:TYR:HD2	1.62	0.45
1:B:976:ILE:HG21	1:B:1280:TYR:CE1	2.50	0.45
2:Y:138:VAL:HG11	2:Y:177:TYR:CD2	2.51	0.45
2:Y:140:LYS:O	2:Y:146:LEU:CD2	2.65	0.45
1:A:1228:TRP:CZ3	1:A:1270:VAL:HG22	2.51	0.45
2:X:194:LYS:HD2	2:X:194:LYS:HA	1.80	0.45
1:B:122:ASP:OD2	1:B:211:THR:HG22	2.17	0.45
1:B:243:PHE:CZ	1:B:316:GLU:HA	2.51	0.45
1:B:315:LEU:HB2	1:B:318:LEU:HD12	1.99	0.45
1:B:386:VAL:N	1:B:411:THR:HG22	2.25	0.45
1:B:605:VAL:CG1	1:B:606:ASP:N	2.80	0.45
1:B:979:VAL:C	1:B:980:LYS:HD2	2.37	0.45
1:B:981:GLY:HA3	1:B:1309:LEU:CD1	2.47	0.45
1:B:1217:LEU:CD2	1:B:1235:LYS:HE3	2.46	0.45
1:B:1245:ALA:HA	1:B:1285:TYR:HB3	1.99	0.45
1:B:1307:LEU:HB2	1:B:1355:GLY:HA2	1.97	0.45
1:B:1460:VAL:O	1:B:1460:VAL:HG12	2.16	0.45
1:A:50:PHE:CE2	1:A:79:PHE:CE2	3.05	0.45
1:A:441:ASP:OD2	1:A:441:ASP:N	2.37	0.45
1:A:498:HIS:HB3	1:A:514:THR:HG23	1.99	0.45
1:A:519:SER:O	1:A:520:ASP:C	2.55	0.45
1:A:623:VAL:HG11	1:A:809:ILE:HD13	1.97	0.45
1:A:646:PHE:O	1:A:649:ALA:HB3	2.16	0.45
1:A:983:LEU:HD23	1:A:1271:ILE:HD13	1.98	0.45
1:A:1050:LYS:O	1:A:1053:MET:CB	2.63	0.45
1:A:1104:LEU:HD13	1:A:1164:ILE:CD1	2.44	0.45
1:B:31:PHE:CZ	1:B:104:LEU:HD22	2.40	0.45
1:B:104:LEU:O	1:B:114:SER:CB	2.65	0.45
1:B:162:THR:O	1:B:164:ILE:HG13	2.17	0.45
1:B:435:VAL:CG1	1:B:436:LYS:N	2.80	0.45
1:B:469:TRP:HB2	1:B:483:ASN:O	2.17	0.45
1:B:531:THR:HG23	1:B:533:ASN:N	2.32	0.45
1:B:1056:ILE:HD11	1:B:1066:TYR:CE2	2.52	0.45
1:B:1180:LEU:CD1	1:B:1207:SER:HB3	2.47	0.45
1:B:1204:GLN:O	1:B:1207:SER:N	2.50	0.45
1:B:1249:GLU:OE2	1:B:1288:GLN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1280:TYR:HD1	1:B:1362:THR:CG2	2.30	0.45
1:A:100:SER:O	1:A:101:TYR:CB	2.63	0.45
1:A:227:PHE:O	1:A:227:PHE:CD1	2.70	0.45
1:A:240:TYR:CZ	1:A:443:PRO:HD2	2.51	0.45
1:A:259:VAL:HG23	1:A:260:VAL:O	2.16	0.45
1:A:590:LEU:HD12	1:A:591:ASN:H	1.81	0.45
1:A:599:TRP:CZ3	1:A:779:LEU:HB2	2.52	0.45
1:A:644:ASN:HD21	1:A:648:LEU:CD1	2.20	0.45
1:A:837:GLU:OE2	1:A:1488:LEU:CB	2.63	0.45
1:A:956:ARG:HG3	1:A:1349:SER:CB	2.37	0.45
1:A:977:LEU:HD12	1:A:1361:VAL:HG23	1.96	0.45
1:A:1104:LEU:O	1:A:1107:LEU:HD12	2.17	0.45
1:A:1150:ILE:HD11	1:A:1190:ILE:CG2	2.42	0.45
1:A:1185:THR:HG21	1:A:1228:TRP:HB3	1.99	0.45
1:A:1423:VAL:CG2	1:A:1496:TYR:HE1	2.29	0.45
1:A:1467:ILE:N	1:A:1468:PRO:CD	2.80	0.45
1:B:25:ILE:O	1:B:654:LEU:N	2.43	0.45
1:B:41:ILE:CG2	1:B:81:ASN:O	2.64	0.45
1:B:54:ILE:HG22	1:B:55:SER:N	2.31	0.45
1:B:138:ASP:N	1:B:190:ILE:HB	2.32	0.45
1:B:888:VAL:HG12	1:B:894:HIS:HB2	1.97	0.45
1:B:901:LEU:HA	1:B:902:PRO:HD3	1.81	0.45
1:B:1200:LYS:H	1:B:1200:LYS:HG2	1.39	0.45
1:B:1332:ASN:O	1:B:1332:ASN:CG	2.53	0.45
1:A:31:PHE:CZ	1:A:104:LEU:HD13	2.51	0.44
1:A:101:TYR:CE1	1:A:116:ARG:NE	2.85	0.44
1:A:159:THR:O	1:A:175:GLU:HA	2.17	0.44
1:A:243:PHE:CZ	1:A:316:GLU:CG	2.92	0.44
1:A:315:LEU:HB2	1:A:318:LEU:HD12	1.98	0.44
1:A:469:TRP:HB2	1:A:483:ASN:O	2.17	0.44
1:A:575:LEU:HD23	1:A:575:LEU:HA	1.74	0.44
1:A:587:THR:HG22	1:A:789:ALA:HB2	1.99	0.44
1:A:758:LEU:O	1:A:760:VAL:N	2.50	0.44
1:A:936:ARG:CZ	1:A:1002:HIS:HE1	2.30	0.44
2:X:190:THR:HA	2:X:199:GLN:O	2.17	0.44
1:B:323:LEU:HG	1:B:347:TYR:HE2	1.82	0.44
1:B:350:SER:OG	1:B:446:ASN:O	2.27	0.44
1:B:363:LEU:CD2	1:B:454:ALA:HB3	2.46	0.44
1:B:396:ASP:O	1:B:429:THR:HG21	2.17	0.44
1:B:424:LEU:HA	1:B:425:PRO:HD3	1.79	0.44
1:B:431:LEU:C	1:B:431:LEU:HD22	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:608:ALA:HB1	1:B:769:PHE:HE1	1.82	0.44
1:B:849:ARG:HB3	1:B:853:MET:CE	2.46	0.44
2:Y:153:PHE:CG	2:Y:154:SER:N	2.85	0.44
1:A:25:ILE:HD13	1:A:41:ILE:HA	1.99	0.44
1:A:57:LYS:HG2	1:A:64:PHE:O	2.17	0.44
1:A:88:GLN:HB3	1:A:89:PRO:CD	2.47	0.44
1:A:412:ARG:HG2	1:A:413:VAL:H	1.82	0.44
1:A:492:TYR:CD2	1:A:492:TYR:C	2.90	0.44
1:A:1056:ILE:HD11	1:A:1066:TYR:HE2	1.82	0.44
1:A:1225:TYR:CD1	1:A:1273:TRP:HB2	2.53	0.44
1:A:1300:TYR:CD2	1:A:1300:TYR:C	2.90	0.44
1:A:1439:LEU:CD1	1:A:1453:TYR:HD2	2.29	0.44
1:B:540:LEU:CD1	1:B:540:LEU:C	2.85	0.44
1:B:583:SER:HA	1:B:584:PRO:HD3	1.87	0.44
1:B:699:CYS:O	1:B:702:GLY:HA3	2.18	0.44
1:B:980:LYS:HB3	1:B:980:LYS:HE3	1.70	0.44
1:B:1053:MET:HE3	1:B:1086:LEU:HD13	1.99	0.44
1:B:1210:SER:O	1:B:1214:ARG:N	2.45	0.44
1:B:1265:ASN:HA	1:B:1268:ASN:ND2	2.32	0.44
1:A:227:PHE:CE1	1:A:338:GLU:HB3	2.53	0.44
1:A:1244:THR:HG22	1:A:1245:ALA:N	2.32	0.44
1:A:1438:ASP:O	1:A:1441:ALA:HB3	2.17	0.44
1:B:183:ILE:HG22	1:B:185:PHE:CE2	2.52	0.44
1:B:515:ARG:HH22	1:B:527:ASN:CA	2.30	0.44
1:B:590:LEU:HD12	1:B:591:ASN:H	1.82	0.44
1:B:944:LEU:HD23	1:B:944:LEU:HA	1.61	0.44
1:B:991:VAL:HG21	1:B:1017:PRO:O	2.17	0.44
1:B:1378:TYR:CE2	1:B:1409:LYS:HG2	2.53	0.44
2:Y:226:VAL:HG12	2:Y:227:THR:N	2.32	0.44
1:A:165:ASP:HA	1:A:166:PRO:HD3	1.78	0.44
1:A:494:ASP:C	1:A:496:ILE:HD12	2.38	0.44
1:A:820:PHE:CZ	1:A:848:TYR:HB2	2.42	0.44
1:A:847:ASN:O	1:A:848:TYR:CD1	2.71	0.44
1:A:961:TYR:CE2	1:A:1343:ASN:HA	2.53	0.44
1:A:1226:ARG:CZ	1:A:1266:TYR:HE1	2.30	0.44
1:A:1339:GLU:O	1:A:1341:LEU:HD22	2.18	0.44
2:X:211:ARG:O	2:X:214:ASP:HB2	2.17	0.44
1:B:50:PHE:CE2	1:B:79:PHE:CD2	3.06	0.44
1:B:173:MET:C	1:B:174:VAL:HG12	2.38	0.44
1:B:183:ILE:CG2	1:B:185:PHE:CE2	3.01	0.44
1:B:361:LEU:N	1:B:361:LEU:HD12	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:544:TYR:CE1	1:B:555:VAL:HG12	2.52	0.44
1:B:754:MET:O	1:B:755:LYS:CG	2.65	0.44
1:B:1012:LEU:O	1:B:1015:VAL:CG1	2.65	0.44
1:B:1255:LEU:HD11	1:B:1259:LEU:HD11	1.99	0.44
1:B:1323:LEU:CG	1:B:1324:HIS:N	2.80	0.44
1:B:1432:ILE:HD13	1:B:1481:GLU:HG2	2.00	0.44
1:A:325:ILE:O	1:A:342:ILE:N	2.30	0.44
1:A:773:TRP:HZ3	1:A:788:PHE:CE1	2.34	0.44
1:A:1041:GLU:O	1:A:1045:LEU:HG	2.18	0.44
1:A:1047:LYS:C	1:A:1049:LEU:N	2.68	0.44
1:A:1105:LEU:HA	1:A:1108:VAL:HG11	2.00	0.44
1:A:1175:LEU:HD23	1:A:1175:LEU:HA	1.79	0.44
1:B:33:VAL:HB	1:B:209:PHE:CE2	2.51	0.44
1:B:61:ASP:O	1:B:61:ASP:CG	2.56	0.44
1:B:500:ASN:O	1:B:542:VAL:HA	2.18	0.44
1:B:735:ALA:HB1	1:B:754:MET:CE	2.45	0.44
1:B:777:VAL:HG12	1:B:778:HIS:N	2.32	0.44
1:B:1127:ILE:HD12	1:B:1127:ILE:O	2.16	0.44
1:B:1228:TRP:N	1:B:1228:TRP:CE3	2.86	0.44
1:B:1229:LYS:HD2	1:B:1239:VAL:CG1	2.42	0.44
1:B:1259:LEU:HD11	1:B:1300:TYR:HB2	1.99	0.44
1:B:1279:ARG:CD	1:B:1284:PHE:CG	2.98	0.44
2:Y:140:LYS:O	2:Y:146:LEU:HA	2.17	0.44
1:A:600:VAL:HG12	1:A:601:ALA:H	1.82	0.44
1:A:1047:LYS:O	1:A:1048:LYS:C	2.56	0.44
1:A:1225:TYR:OH	1:A:1272:LYS:HE3	2.18	0.44
2:X:166:ASP:OD2	2:X:201:ILE:HD13	2.17	0.44
2:X:192:ASN:HB2	2:X:223:LYS:O	2.18	0.44
1:B:415:ASP:OD1	1:B:417:VAL:HG23	2.18	0.44
1:B:834:VAL:HG11	1:B:1489:SER:HB3	2.00	0.44
1:B:1018:VAL:O	1:B:1019:PHE:C	2.56	0.44
1:B:1037:ASP:OD1	1:B:1038:PRO:N	2.51	0.44
1:B:1136:GLU:OE1	1:B:1415:SER:HB3	2.17	0.44
1:B:1497:GLU:O	1:B:1498:TYR:C	2.55	0.44
2:Y:150:ILE:HD12	2:Y:151:ASP:N	2.32	0.44
1:A:271:ILE:HG22	1:A:272:ARG:H	1.82	0.44
1:A:290:THR:O	1:A:291:MET:O	2.35	0.44
1:A:450:GLU:HB3	1:A:452:TYR:HE2	1.81	0.44
1:A:912:PHE:O	1:A:922:ILE:HA	2.18	0.44
1:A:1104:LEU:HD12	1:A:1159:CYS:HB3	1.98	0.44
1:A:1243:GLY:HA3	1:A:1285:TYR:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:227:PHE:CZ	1:B:338:GLU:HB2	2.53	0.44
1:B:867:THR:HG23	1:B:900:VAL:CG1	2.47	0.44
1:B:981:GLY:C	1:B:982:LEU:HD23	2.38	0.44
1:A:153:LYS:O	1:A:155:ALA:N	2.51	0.44
1:A:159:THR:CG2	1:A:160:VAL:N	2.81	0.44
1:A:367:ILE:HG23	1:A:368:PRO:CD	2.47	0.44
1:A:412:ARG:HG2	1:A:413:VAL:N	2.32	0.44
1:A:478:VAL:CG1	1:A:566:LYS:HD3	2.47	0.44
1:A:489:LYS:O	1:A:491:PRO:HD2	2.17	0.44
1:A:609:VAL:HG23	1:A:610:TYR:CD2	2.53	0.44
1:A:1037:ASP:HA	1:A:1038:PRO:HD3	1.76	0.44
1:A:1061:ASN:HB2	1:A:1065:SER:O	2.18	0.44
1:A:1135:VAL:HG12	1:A:1136:GLU:N	2.33	0.44
1:A:1323:LEU:CG	1:A:1324:HIS:H	2.31	0.44
1:B:284:GLN:O	1:B:310:LEU:HD13	2.18	0.44
1:B:367:ILE:CD1	1:B:466:TYR:HB3	2.48	0.44
1:B:544:TYR:CD1	1:B:544:TYR:N	2.84	0.44
1:B:1016:VAL:O	1:B:1017:PRO:C	2.56	0.44
1:B:1161:LEU:HG	1:B:1164:ILE:HG23	1.99	0.44
1:B:1379:LEU:HD22	1:B:1493:PHE:HE2	1.77	0.44
1:B:1496:TYR:HD2	1:B:1504:GLN:OE1	2.01	0.44
2:Y:183:THR:CB	2:Y:230:GLN:HB3	2.48	0.44
1:A:56:ILE:O	1:A:66:TYR:CD2	2.70	0.44
1:A:494:ASP:O	1:A:496:ILE:N	2.46	0.44
1:A:576:SER:CB	1:A:577:PRO:CD	2.95	0.44
1:A:609:VAL:CG2	1:A:610:TYR:CD2	3.01	0.44
1:A:859:MET:HE2	1:A:912:PHE:CZ	2.52	0.44
1:A:930:VAL:HG12	1:A:931:PRO:N	2.33	0.44
1:A:938:SER:OG	1:A:1279:ARG:NE	2.50	0.44
1:A:968:VAL:HG22	1:A:1366:HIS:O	2.18	0.44
1:B:61:ASP:OD1	1:B:63:LYS:HB2	2.18	0.44
1:B:107:VAL:HG12	1:B:108:SER:N	2.33	0.44
1:B:220:LYS:HG2	1:B:763:PRO:HB3	2.00	0.44
1:B:272:ARG:CG	1:B:273:GLU:N	2.81	0.44
1:B:388:VAL:O	1:B:420:PHE:HZ	2.00	0.44
1:B:423:ASN:H	1:B:423:ASN:ND2	2.15	0.44
1:B:621:GLU:O	1:B:622:ARG:C	2.56	0.44
1:B:667:GLU:OE1	1:B:667:GLU:N	2.51	0.44
1:B:1069:TRP:NE1	1:B:1463:GLN:NE2	2.60	0.44
1:B:1083:LEU:HD11	1:B:1107:LEU:HD11	1.99	0.44
1:B:1084:ARG:O	1:B:1088:GLN:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1125:GLN:O	1:B:1421:HIS:N	2.49	0.44
1:B:1133:LEU:N	1:B:1134:PRO:CD	2.81	0.44
1:B:1190:ILE:HG12	1:B:1253:TYR:CD1	2.53	0.44
1:B:1401:ARG:HB2	1:B:1478:ARG:CA	2.48	0.44
1:B:1423:VAL:HG22	1:B:1496:TYR:CE1	2.51	0.44
1:A:88:GLN:HB3	1:A:88:GLN:HE21	1.63	0.43
1:A:144:ARG:O	1:A:145:VAL:HG23	2.18	0.43
1:A:303:SER:HB3	1:A:347:TYR:OH	2.18	0.43
1:A:439:ALA:O	1:A:447:GLN:NE2	2.50	0.43
1:A:442:LEU:O	1:A:443:PRO:C	2.52	0.43
1:A:606:ASP:C	1:A:608:ALA:N	2.71	0.43
1:A:724:CYS:O	1:A:727:ALA:N	2.51	0.43
1:A:768:TYR:HE2	1:A:770:PRO:HA	1.83	0.43
1:A:1019:PHE:HE2	1:A:1088:GLN:HE21	1.64	0.43
1:A:1057:MET:O	1:A:1060:ARG:HB3	2.18	0.43
1:A:1226:ARG:HB3	1:A:1270:VAL:HG23	2.01	0.43
1:A:1243:GLY:HA3	1:A:1285:TYR:HE2	1.82	0.43
1:A:1300:TYR:CE1	1:A:1304:VAL:HG21	2.53	0.43
1:A:1429:PRO:O	1:A:1432:ILE:CG1	2.66	0.43
1:A:1435:ASN:ND2	1:A:1478:ARG:HB2	2.27	0.43
2:X:172:HIS:O	2:X:176:ASN:N	2.49	0.43
1:B:158:GLU:CB	1:B:206:LYS:HE2	2.48	0.43
1:B:465:LEU:HD22	1:B:542:VAL:O	2.18	0.43
1:B:701:ASP:OD1	1:B:702:GLY:N	2.51	0.43
1:B:1081:PHE:O	1:B:1081:PHE:CD2	2.71	0.43
1:B:1188:LEU:HD12	1:B:1188:LEU:HA	1.73	0.43
1:B:1228:TRP:N	1:B:1228:TRP:HE3	2.16	0.43
1:B:1305:LYS:HE3	1:B:1305:LYS:HB2	1.68	0.43
1:A:190:ILE:HG22	1:A:194:PRO:CG	2.47	0.43
1:A:319:ASN:OD1	1:A:321:LYS:CG	2.66	0.43
1:A:777:VAL:CG1	1:A:778:HIS:N	2.81	0.43
1:A:994:GLN:NE2	1:A:998:ASN:HD22	2.16	0.43
1:A:1031:TRP:HA	1:A:1031:TRP:CE3	2.53	0.43
1:A:1052:GLY:O	1:A:1055:SER:HB3	2.17	0.43
1:A:1370:THR:HG21	1:A:1506:THR:O	2.18	0.43
2:X:193:LEU:HD23	2:X:221:ILE:HG12	1.99	0.43
1:B:53:THR:HA	1:B:69:GLY:O	2.18	0.43
1:B:113:LYS:HZ3	1:B:656:ASN:HD21	1.65	0.43
1:B:257:ASN:ND2	1:B:893:SER:O	2.51	0.43
1:B:259:VAL:HG23	1:B:260:VAL:O	2.17	0.43
1:B:271:ILE:HD11	1:B:307:VAL:CG2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:356:LEU:CD1	1:B:452:TYR:CD1	3.00	0.43
1:B:454:ALA:C	1:B:455:ILE:HG13	2.38	0.43
1:B:531:THR:O	1:B:534:MET:HG3	2.18	0.43
1:B:582:TYR:HB2	1:B:819:VAL:HG12	2.00	0.43
1:B:665:ASN:O	1:B:666:ASP:HB3	2.18	0.43
1:B:840:GLN:O	1:B:1483:PHE:CD2	2.70	0.43
1:B:896:VAL:C	1:B:897:THR:CG2	2.86	0.43
1:B:1247:MET:O	1:B:1251:THR:HG23	2.18	0.43
1:A:23:TYR:HA	1:A:43:VAL:HG23	2.00	0.43
1:A:469:TRP:CD1	1:A:482:LEU:HD21	2.53	0.43
1:A:541:LEU:HD23	1:A:541:LEU:C	2.38	0.43
1:A:758:LEU:HD22	1:A:760:VAL:H	1.84	0.43
1:A:838:GLN:HB3	1:A:1486:GLY:CA	2.48	0.43
1:A:968:VAL:CG1	1:A:1368:THR:CG2	2.86	0.43
1:A:1126:PRO:C	1:A:1499:HIS:HD1	2.21	0.43
1:A:1169:ILE:O	1:A:1170:LYS:C	2.57	0.43
1:A:1176:LEU:H	1:A:1176:LEU:HG	1.51	0.43
1:A:1206:ARG:NH1	1:A:1206:ARG:CG	2.73	0.43
1:B:511:HIS:NE2	1:B:531:THR:HG21	2.31	0.43
1:B:1024:TYR:CD2	1:B:1025:LEU:N	2.83	0.43
2:Y:224:ILE:C	2:Y:225:GLU:HG3	2.39	0.43
1:A:59:TYR:CG	1:A:60:PRO:CD	2.97	0.43
1:A:59:TYR:CD2	1:A:60:PRO:CD	2.97	0.43
1:A:647:HIS:C	1:A:649:ALA:H	2.22	0.43
1:A:975:ARG:O	1:A:1339:GLU:HA	2.19	0.43
1:A:1087:GLY:HA3	1:A:1155:ALA:HA	2.01	0.43
1:A:1352:PHE:CG	1:A:1353:GLY:N	2.83	0.43
2:X:140:LYS:O	2:X:146:LEU:HA	2.17	0.43
1:B:50:PHE:HE2	1:B:79:PHE:CE2	2.35	0.43
1:B:166:PRO:HD3	1:B:199:TRP:CE2	2.53	0.43
1:B:216:TYR:CD2	1:B:216:TYR:N	2.86	0.43
1:B:515:ARG:CZ	1:B:526:ILE:HG23	2.49	0.43
1:B:554:LEU:O	1:B:555:VAL:HG23	2.18	0.43
1:B:571:LEU:HD12	1:B:571:LEU:C	2.29	0.43
1:B:758:LEU:O	1:B:760:VAL:N	2.50	0.43
1:B:1422:ALA:HA	1:B:1498:TYR:H	1.83	0.43
1:B:1480:PHE:O	1:B:1481:GLU:C	2.56	0.43
2:Y:136:LEU:HD23	2:Y:136:LEU:H	1.83	0.43
2:Y:153:PHE:HZ	2:Y:168:LYS:HD2	1.84	0.43
1:A:61:ASP:C	1:A:63:LYS:H	2.20	0.43
1:A:115:LYS:HG3	1:A:116:ARG:H	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:496:ILE:CD1	1:A:517:LYS:NZ	2.82	0.43
1:A:544:TYR:N	1:A:544:TYR:CD1	2.81	0.43
1:A:605:VAL:O	1:A:797:TRP:HE3	2.01	0.43
1:A:641:ASN:O	1:A:642:ASN:C	2.57	0.43
1:A:820:PHE:HZ	1:A:848:TYR:CB	2.27	0.43
1:A:1203:PRO:O	1:A:1206:ARG:N	2.52	0.43
1:A:1435:ASN:HB3	1:A:1438:ASP:CG	2.38	0.43
1:B:625:GLN:O	1:B:626:PHE:C	2.56	0.43
1:B:699:CYS:SG	1:B:727:ALA:O	2.76	0.43
2:Y:217:ASN:ND2	2:Y:220:ASP:OD2	2.47	0.43
1:A:106:VAL:CG1	1:A:107:VAL:N	2.81	0.43
1:A:494:ASP:HA	1:A:496:ILE:HD11	2.00	0.43
1:A:560:TRP:CH2	1:A:562:ASN:CB	2.99	0.43
1:A:609:VAL:HG23	1:A:610:TYR:CG	2.53	0.43
1:A:832:SER:O	1:A:1430:THR:HG23	2.19	0.43
2:X:158:GLU:HA	2:X:219:LYS:HZ1	1.83	0.43
1:B:128:ILE:HA	1:B:145:VAL:HG22	2.00	0.43
1:B:488:PRO:CG	1:B:499:TYR:OH	2.66	0.43
1:B:1128:LYS:NZ	1:B:1415:SER:HB3	2.34	0.43
1:B:1352:PHE:CG	1:B:1353:GLY:N	2.84	0.43
1:A:223:VAL:HG12	1:A:224:LEU:N	2.33	0.43
1:A:231:ILE:HD12	1:A:327:VAL:HG23	2.01	0.43
1:A:560:TRP:HZ3	1:A:562:ASN:HB2	1.74	0.43
1:A:743:SER:OG	1:A:752:LEU:HD22	2.19	0.43
1:A:974:LYS:HE3	1:A:1339:GLU:OE1	2.17	0.43
1:A:995:GLU:O	1:A:996:GLY:O	2.36	0.43
1:A:1120:GLU:OE2	1:A:1121:ASN:N	2.51	0.43
1:A:1158:ILE:H	1:A:1158:ILE:HG13	1.63	0.43
1:A:1206:ARG:O	1:A:1210:SER:HB3	2.19	0.43
1:B:323:LEU:O	1:B:345:ILE:HB	2.17	0.43
1:B:342:ILE:HG22	1:B:343:PRO:HD2	2.01	0.43
1:B:472:ASN:OD1	1:B:473:HIS:CE1	2.72	0.43
1:B:820:PHE:CZ	1:B:821:LYS:O	2.72	0.43
1:B:982:LEU:CD2	1:B:982:LEU:N	2.81	0.43
1:B:1068:VAL:HA	1:B:1078:LEU:HD13	2.01	0.43
1:B:1082:ALA:O	1:B:1086:LEU:N	2.49	0.43
1:B:1286:SER:OG	1:B:1287:THR:N	2.50	0.43
1:B:1342:LEU:C	1:B:1343:ASN:HD22	2.22	0.43
1:B:1429:PRO:O	1:B:1432:ILE:HG12	2.19	0.43
1:A:78:LYS:HE3	2:X:143:GLY:O	2.18	0.43
1:A:90:LYS:HB2	1:A:91:GLN:H	1.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:327:VAL:HG12	1:A:328:THR:N	2.33	0.43
1:A:387:PRO:HA	1:A:410:VAL:HG22	1.99	0.43
1:A:557:ASP:CG	1:A:558:SER:H	2.22	0.43
1:A:599:TRP:HE3	1:A:778:HIS:O	2.01	0.43
1:A:834:VAL:HG11	1:A:1489:SER:HB3	2.00	0.43
1:A:859:MET:CE	1:A:912:PHE:CZ	3.02	0.43
1:A:968:VAL:O	1:A:969:PRO:O	2.37	0.43
1:A:1016:VAL:O	1:A:1017:PRO:C	2.55	0.43
1:A:1054:LEU:C	1:A:1056:ILE:H	2.23	0.43
1:A:1096:ASN:C	1:A:1096:ASN:ND2	2.71	0.43
1:A:1318:LYS:HE2	1:A:1345:ASP:HB2	2.01	0.43
1:B:101:TYR:HD1	1:B:116:ARG:CG	2.31	0.43
1:B:292:LEU:HD13	1:B:292:LEU:C	2.38	0.43
1:B:504:LEU:HD21	1:B:651:LEU:CG	2.46	0.43
1:B:609:VAL:HG23	1:B:610:TYR:CG	2.52	0.43
1:B:647:HIS:C	1:B:649:ALA:N	2.71	0.43
1:B:951:GLY:O	1:B:952:THR:HG22	2.19	0.43
1:B:988:LEU:CD2	1:B:1021:VAL:HG13	2.49	0.43
1:B:1091:LYS:HB3	1:B:1091:LYS:HE2	1.73	0.43
1:B:1132:THR:CG2	1:B:1134:PRO:HD2	2.49	0.43
1:B:1133:LEU:H	1:B:1133:LEU:CD1	2.32	0.43
1:B:1372:GLU:HG3	1:B:1373:GLU:HG3	2.01	0.43
1:A:127:PHE:HE1	1:A:626:PHE:CE2	2.36	0.43
1:A:1307:LEU:HD12	1:A:1307:LEU:H	1.84	0.43
1:A:1438:ASP:OD2	1:A:1478:ARG:N	2.49	0.43
2:X:192:ASN:HB2	2:X:223:LYS:H	1.83	0.43
2:X:227:THR:C	2:X:228:LEU:HD23	2.39	0.43
1:B:50:PHE:HE2	1:B:79:PHE:CD2	2.37	0.43
1:B:51:ASP:OD1	1:B:72:HIS:ND1	2.49	0.43
1:B:208:ASP:O	1:B:209:PHE:CG	2.72	0.43
1:B:644:ASN:HD22	1:B:644:ASN:C	2.22	0.43
1:B:707:ASN:HB3	1:B:739:ARG:CZ	2.49	0.43
1:B:773:TRP:HZ3	1:B:788:PHE:CE1	2.37	0.43
1:B:979:VAL:HB	1:B:1326:TYR:OH	2.19	0.43
1:A:133:PRO:O	1:A:134:VAL:CG2	2.53	0.43
1:A:198:MET:CE	1:A:218:GLU:HB2	2.49	0.43
1:A:269:PHE:CB	1:A:283:MET:HE3	2.48	0.43
1:A:356:LEU:HG	1:A:452:TYR:CZ	2.53	0.43
1:A:465:LEU:CD2	1:A:542:VAL:O	2.66	0.43
1:A:685:GLU:HG3	1:A:686:ILE:CD1	2.48	0.43
1:A:820:PHE:CZ	1:A:821:LYS:O	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:971:THR:O	1:A:971:THR:OG1	2.36	0.43
1:A:1042:LYS:HG2	1:A:1046:LYS:HE3	2.01	0.43
1:A:1259:LEU:HD21	1:A:1300:TYR:HD1	1.84	0.43
1:A:1383:THR:HG22	1:A:1402:ILE:HG12	2.00	0.43
2:X:146:LEU:HD13	2:X:146:LEU:C	2.39	0.43
1:B:634:CYS:SG	1:B:672:ILE:HG22	2.59	0.43
1:B:641:ASN:C	1:B:643:ALA:N	2.67	0.43
1:B:1068:VAL:HG22	1:B:1069:TRP:N	2.34	0.43
1:B:1283:GLY:O	1:B:1290:THR:OG1	2.36	0.43
1:B:1328:MET:O	1:B:1329:THR:CG2	2.66	0.43
1:A:162:THR:HG21	1:A:204:LYS:HE2	2.00	0.42
1:A:386:VAL:HA	1:A:387:PRO:HD3	1.71	0.42
1:A:760:VAL:O	1:A:761:SER:HB3	2.18	0.42
1:A:947:ARG:NH1	1:A:1354:SER:HB3	2.33	0.42
1:A:1082:ALA:O	1:A:1086:LEU:HD23	2.19	0.42
1:A:1149:VAL:HA	1:A:1152:ILE:HD12	2.01	0.42
2:X:138:VAL:HG11	2:X:177:TYR:CD2	2.54	0.42
1:B:121:TYR:O	1:B:210:SER:N	2.43	0.42
1:B:170:GLU:O	1:B:171:VAL:HG23	2.19	0.42
1:B:270:GLY:N	1:B:324:TYR:O	2.52	0.42
1:B:330:ILE:HB	1:B:336:PHE:O	2.19	0.42
1:B:386:VAL:CG1	1:B:387:PRO:HD2	2.39	0.42
1:B:392:ALA:HB3	1:B:404:LEU:CD1	2.45	0.42
1:B:561:LEU:O	1:B:563:ILE:HG23	2.19	0.42
1:B:562:ASN:OD1	1:B:563:ILE:N	2.52	0.42
1:B:1053:MET:HE1	1:B:1086:LEU:CD2	2.46	0.42
1:B:1068:VAL:HG22	1:B:1069:TRP:CD2	2.54	0.42
1:B:1440:LYS:O	1:B:1444:GLU:CB	2.67	0.42
3:D:1:NAG:HO3	3:D:2:NAG:C1	2.32	0.42
1:A:350:SER:HB2	1:A:446:ASN:C	2.39	0.42
1:A:367:ILE:HD12	1:A:466:TYR:HB2	2.00	0.42
1:A:472:ASN:OD1	1:A:473:HIS:CE1	2.72	0.42
1:A:700:TYR:CE1	1:A:758:LEU:CB	2.99	0.42
1:A:735:ALA:O	1:A:754:MET:SD	2.77	0.42
1:A:834:VAL:HG12	1:A:835:ARG:O	2.18	0.42
1:A:988:LEU:HD23	1:A:988:LEU:HA	1.89	0.42
1:A:1050:LYS:O	1:A:1053:MET:N	2.52	0.42
1:A:1129:LEU:CD1	1:A:1139:GLU:HB3	2.49	0.42
1:A:1225:TYR:HE1	1:A:1272:LYS:HG3	1.84	0.42
1:B:88:GLN:HB3	1:B:88:GLN:HE21	1.64	0.42
1:B:223:VAL:HG12	1:B:224:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:232:GLU:OE2	1:B:251:LYS:CE	2.60	0.42
1:B:297:ALA:O	1:B:298:GLN:CG	2.65	0.42
1:B:505:SER:HB3	1:B:510:ILE:CD1	2.49	0.42
1:B:691:LYS:O	1:B:692:HIS:HB2	2.20	0.42
1:B:722:PRO:HA	1:B:725:ILE:HG13	2.01	0.42
1:B:909:ASN:N	1:B:926:THR:HG22	2.33	0.42
1:B:1023:HIS:HD2	1:B:1092:TYR:OH	2.03	0.42
1:B:1381:ILE:HG21	1:B:1509:TYR:CD1	2.54	0.42
1:B:1438:ASP:OD2	1:B:1478:ARG:N	2.50	0.42
1:B:1467:ILE:N	1:B:1468:PRO:CD	2.82	0.42
2:Y:134:THR:CG2	2:Y:153:PHE:HB3	2.47	0.42
1:A:61:ASP:O	1:A:61:ASP:CG	2.57	0.42
1:A:142:LYS:HD3	1:A:775:TRP:CD1	2.54	0.42
1:A:502:LEU:HD12	1:A:502:LEU:HA	1.81	0.42
1:A:592:MET:HB3	1:A:780:VAL:HG11	2.01	0.42
1:A:762:LYS:HA	1:A:763:PRO:HD3	1.91	0.42
1:A:829:ILE:HG22	1:A:830:PRO:CD	2.49	0.42
1:A:968:VAL:HG23	1:A:971:THR:CG2	2.49	0.42
2:X:146:LEU:HD11	2:X:148:ALA:CB	2.45	0.42
1:B:56:ILE:HD13	1:B:86:THR:H	1.84	0.42
1:B:61:ASP:O	1:B:61:ASP:OD1	2.38	0.42
1:B:128:ILE:HB	1:B:215:ALA:HB2	2.00	0.42
1:B:161:LEU:HD13	1:B:163:PHE:CE1	2.54	0.42
1:B:354:LEU:HD12	1:B:435:VAL:HG12	2.00	0.42
1:B:501:TYR:OH	2:Y:147:ASP:HB3	2.19	0.42
1:B:561:LEU:O	1:B:563:ILE:HG22	2.18	0.42
1:B:576:SER:HB3	1:B:577:PRO:HD3	2.01	0.42
1:B:847:ASN:HD22	1:B:888:VAL:CG2	2.32	0.42
1:B:859:MET:HE2	1:B:912:PHE:CZ	2.54	0.42
1:B:922:ILE:O	1:B:922:ILE:HG22	2.18	0.42
1:B:1008:ALA:HB2	1:B:1068:VAL:O	2.20	0.42
1:B:1093:VAL:O	1:B:1094:GLU:C	2.58	0.42
1:B:1206:ARG:O	1:B:1210:SER:HB3	2.19	0.42
1:B:1376:SER:OG	1:B:1503:LYS:HA	2.20	0.42
1:A:111:PHE:CD2	1:A:112:SER:N	2.86	0.42
1:A:132:LYS:NZ	1:A:139:GLN:NE2	2.67	0.42
1:A:214:THR:HG22	1:A:215:ALA:H	1.84	0.42
1:A:961:TYR:OH	1:A:1343:ASN:CG	2.58	0.42
1:A:1028:GLY:O	1:A:1029:ASN:O	2.38	0.42
1:A:1203:PRO:O	1:A:1206:ARG:CB	2.68	0.42
2:X:189:ILE:CD1	2:X:203:LEU:HD21	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:194:LYS:HG3	2:X:195:ASP:N	2.35	0.42
1:B:88:GLN:HB3	1:B:89:PRO:HD2	2.02	0.42
1:B:191:PRO:HD2	1:B:194:PRO:HG3	2.01	0.42
1:B:350:SER:HB2	1:B:446:ASN:C	2.40	0.42
1:B:352:TYR:CD1	1:B:375:VAL:CG1	3.01	0.42
1:B:540:LEU:HD12	1:B:540:LEU:O	2.20	0.42
1:B:735:ALA:O	1:B:754:MET:SD	2.77	0.42
1:B:844:THR:HG22	1:B:895:LEU:HG	2.00	0.42
1:B:1244:THR:HB	1:B:1247:MET:HB3	2.01	0.42
1:B:1428:LEU:HA	1:B:1429:PRO:HD3	1.87	0.42
2:Y:190:THR:HA	2:Y:199:GLN:O	2.19	0.42
2:Y:211:ARG:O	2:Y:214:ASP:HB2	2.19	0.42
1:A:55:SER:CB	1:A:67:SER:O	2.68	0.42
1:A:55:SER:HB3	1:A:68:SER:CB	2.50	0.42
1:A:205:TYR:HD1	1:A:211:THR:OG1	2.03	0.42
1:A:461:SER:C	1:A:463:SER:N	2.72	0.42
1:A:685:GLU:C	1:A:687:ALA:H	2.22	0.42
1:A:796:THR:HG23	1:A:818:LYS:HB3	2.02	0.42
1:A:981:GLY:O	1:A:982:LEU:CB	2.68	0.42
1:A:1011:GLU:HG3	1:A:1055:SER:OG	2.20	0.42
1:A:1283:GLY:H	1:A:1290:THR:HG21	1.84	0.42
1:A:1427:SER:CB	1:A:1491:ALA:HB1	2.50	0.42
1:B:272:ARG:HG2	1:B:273:GLU:H	1.84	0.42
1:B:350:SER:OG	1:B:448:ALA:N	2.52	0.42
1:B:504:LEU:CD1	1:B:509:ILE:HG12	2.49	0.42
1:B:829:ILE:CG2	1:B:830:PRO:HD2	2.48	0.42
1:B:830:PRO:HG3	1:B:1483:PHE:HZ	1.85	0.42
1:B:1129:LEU:HD23	1:B:1246:ARG:HH12	1.84	0.42
1:B:1185:THR:HG21	1:B:1228:TRP:HB3	2.01	0.42
1:A:284:GLN:O	1:A:310:LEU:CD1	2.68	0.42
1:A:349:LEU:HD22	1:A:446:ASN:HD22	1.84	0.42
1:A:489:LYS:C	1:A:491:PRO:HD2	2.40	0.42
1:A:502:LEU:HD12	1:A:512:PHE:HB3	2.01	0.42
1:A:1019:PHE:CE2	1:A:1020:TYR:CD1	3.08	0.42
1:B:31:PHE:HZ	1:B:104:LEU:CD2	2.25	0.42
1:B:84:ILE:HD13	2:Y:135:HIS:CD2	2.55	0.42
1:B:84:ILE:O	1:B:84:ILE:HG13	2.19	0.42
1:B:159:THR:O	1:B:175:GLU:HA	2.19	0.42
1:B:518:PHE:O	1:B:519:SER:C	2.58	0.42
1:B:589:SER:HA	1:B:787:GLN:HA	2.00	0.42
1:B:738:LEU:O	1:B:742:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:834:VAL:HG11	1:B:1489:SER:CB	2.50	0.42
1:B:855:PHE:HD1	1:B:856:CYS:N	2.18	0.42
1:B:862:VAL:O	1:B:863:GLU:C	2.58	0.42
1:B:950:TYR:HE1	1:B:1271:ILE:HD11	1.83	0.42
1:B:1175:LEU:O	1:B:1179:THR:OG1	2.36	0.42
1:B:1199:ASP:OD1	1:B:1199:ASP:C	2.58	0.42
2:Y:227:THR:C	2:Y:228:LEU:HD23	2.40	0.42
1:A:38:ASN:C	1:A:39:ILE:HD13	2.38	0.42
1:A:503:ILE:HG12	1:A:540:LEU:CB	2.48	0.42
1:A:577:PRO:HD2	1:A:588:VAL:CG2	2.37	0.42
1:A:610:TYR:HB2	1:A:611:GLY:H	1.68	0.42
1:A:626:PHE:O	1:A:628:GLU:N	2.53	0.42
1:A:935:LYS:O	1:A:1365:VAL:O	2.36	0.42
1:A:1003:LEU:HA	1:A:1004:PRO:HD2	1.49	0.42
1:A:1108:VAL:HG22	1:A:1109:GLU:N	2.35	0.42
1:A:1434:ALA:CB	1:A:1477:PHE:HE1	2.32	0.42
2:X:192:ASN:HD22	2:X:223:LYS:HB2	1.85	0.42
1:B:137:PRO:HD3	1:B:220:LYS:O	2.19	0.42
1:B:166:PRO:HG3	1:B:199:TRP:CD1	2.54	0.42
1:B:254:TYR:CE2	1:B:260:VAL:HG22	2.53	0.42
1:B:438:ASP:O	1:B:439:ALA:O	2.38	0.42
1:B:617:LYS:O	1:B:618:LYS:CG	2.49	0.42
1:B:840:GLN:HB2	1:B:1484:GLU:HB2	2.02	0.42
1:B:982:LEU:C	1:B:984:VAL:H	2.22	0.42
1:B:1083:LEU:O	1:B:1086:LEU:HB2	2.19	0.42
1:B:1159:CYS:N	1:B:1160:PRO:CD	2.82	0.42
1:B:1278:GLN:NE2	1:B:1278:GLN:CA	2.83	0.42
1:B:1429:PRO:O	1:B:1430:THR:C	2.58	0.42
1:A:41:ILE:O	1:A:81:ASN:N	2.49	0.42
1:A:100:SER:O	1:A:101:TYR:CD2	2.72	0.42
1:A:136:THR:HA	1:A:220:LYS:O	2.20	0.42
1:A:253:ARG:HG3	1:A:253:ARG:O	2.19	0.42
1:A:292:LEU:HD13	1:A:292:LEU:C	2.39	0.42
1:A:359:THR:HG21	1:A:372:LYS:N	2.23	0.42
1:A:497:THR:HG23	1:A:498:HIS:N	2.29	0.42
1:A:500:ASN:O	1:A:542:VAL:HA	2.20	0.42
1:A:515:ARG:HH22	1:A:527:ASN:H	1.68	0.42
1:A:982:LEU:HD11	1:A:1306:GLN:OE1	2.20	0.42
1:A:1022:PHE:O	1:A:1026:GLU:HB3	2.20	0.42
1:A:1024:TYR:HD2	1:A:1025:LEU:N	2.17	0.42
1:A:1161:LEU:CD1	1:A:1162:VAL:HG22	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1317:TYR:HB2	1:A:1320:LYS:HB3	2.02	0.42
1:A:1496:TYR:CD1	1:A:1496:TYR:C	2.93	0.42
1:B:240:TYR:CZ	1:B:443:PRO:HD3	2.53	0.42
1:B:396:ASP:N	1:B:400:GLU:O	2.50	0.42
1:B:831:TYR:O	1:B:928:ARG:HB2	2.19	0.42
1:B:1012:LEU:C	1:B:1014:SER:H	2.23	0.42
1:B:1379:LEU:HD21	1:B:1495:VAL:CG1	2.48	0.42
1:B:1379:LEU:HD12	1:B:1507:MET:HE2	2.01	0.42
2:Y:192:ASN:HB2	2:Y:223:LYS:O	2.20	0.42
2:Y:217:ASN:HB2	2:Y:220:ASP:OD2	2.19	0.42
1:A:159:THR:HG22	1:A:160:VAL:H	1.84	0.42
1:A:284:GLN:HG2	1:A:310:LEU:HD13	2.02	0.42
1:A:350:SER:HA	1:A:351:PRO:HD3	1.74	0.42
1:A:497:THR:OG1	1:A:498:HIS:ND1	2.52	0.42
1:A:592:MET:HG2	1:A:600:VAL:HG21	2.01	0.42
1:A:855:PHE:CD1	1:A:856:CYS:N	2.87	0.42
1:A:902:PRO:O	1:A:903:LEU:HD13	2.20	0.42
1:A:907:LEU:HD12	1:A:908:HIS:N	2.34	0.42
1:A:1069:TRP:NE1	1:A:1463:GLN:NE2	2.68	0.42
1:B:23:TYR:OH	1:B:656:ASN:HB2	2.20	0.42
1:B:61:ASP:C	1:B:63:LYS:H	2.21	0.42
1:B:125:PHE:CD1	1:B:125:PHE:N	2.87	0.42
1:B:369:TYR:HE2	1:B:433:PHE:HE1	1.66	0.42
1:B:415:ASP:OD1	1:B:417:VAL:CG2	2.67	0.42
1:B:531:THR:CG2	1:B:533:ASN:HB2	2.49	0.42
1:B:1148:THR:OG1	1:B:1152:ILE:HD11	2.19	0.42
1:B:1307:LEU:HD13	1:B:1356:LEU:HD12	2.02	0.42
1:B:1408:TYR:O	1:B:1410:PRO:HD3	2.20	0.42
1:A:191:PRO:O	1:A:194:PRO:HD3	2.20	0.42
1:A:216:TYR:O	1:A:217:PHE:HB3	2.19	0.42
1:A:337:SER:HB3	1:A:1437:GLU:CD	2.40	0.42
1:A:616:ALA:O	1:A:617:LYS:C	2.57	0.42
1:A:1054:LEU:C	1:A:1056:ILE:N	2.71	0.42
1:A:1227:PHE:HB2	1:A:1251:THR:HG21	2.02	0.42
1:B:42:GLN:CG	1:B:80:GLN:NE2	2.81	0.42
1:B:157:ARG:CZ	1:B:209:PHE:CE1	3.03	0.42
1:B:331:GLU:OE1	1:B:336:PHE:HD1	2.02	0.42
1:B:504:LEU:HD12	1:B:509:ILE:HG23	2.02	0.42
1:B:576:SER:CB	1:B:577:PRO:CD	2.97	0.42
1:B:1307:LEU:CD1	1:B:1356:LEU:HD12	2.49	0.42
1:A:140:SER:OG	1:A:187:ASP:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:GLY:N	1:A:283:MET:CE	2.83	0.41
1:A:356:LEU:CD1	1:A:452:TYR:CD1	3.03	0.41
1:A:665:ASN:CG	1:A:666:ASP:H	2.23	0.41
1:A:667:GLU:OE1	1:A:667:GLU:N	2.53	0.41
1:A:839:ILE:HG13	1:A:840:GLN:N	2.35	0.41
1:A:967:LEU:HD12	1:A:968:VAL:N	2.34	0.41
1:A:976:ILE:O	1:A:1361:VAL:HA	2.20	0.41
1:A:1113:LEU:C	1:A:1115:ASN:H	2.23	0.41
1:A:1435:ASN:O	1:A:1436:GLU:C	2.59	0.41
2:X:164:GLU:O	2:X:168:LYS:HG3	2.20	0.41
2:X:179:LEU:HD11	2:X:185:LYS:HA	2.03	0.41
1:B:110:HIS:CD2	1:B:110:HIS:O	2.73	0.41
1:B:123:ASN:C	1:B:123:ASN:ND2	2.70	0.41
1:B:123:ASN:C	1:B:211:THR:HG21	2.40	0.41
1:B:396:ASP:HB3	1:B:398:ASN:N	2.35	0.41
1:B:440:PRO:CD	1:B:441:ASP:H	2.33	0.41
1:B:972:GLU:H	1:B:972:GLU:HG2	1.51	0.41
1:B:1117:SER:HA	1:B:1145:THR:CG2	2.48	0.41
1:B:1176:LEU:H	1:B:1176:LEU:HG	1.39	0.41
1:B:1180:LEU:HD11	1:B:1207:SER:HB3	2.02	0.41
1:A:173:MET:C	1:A:174:VAL:HG12	2.41	0.41
1:A:415:ASP:OD1	1:A:417:VAL:CG2	2.68	0.41
1:A:617:LYS:O	1:A:618:LYS:CG	2.46	0.41
1:A:719:SER:CB	1:A:1123:GLN:HE21	2.33	0.41
1:A:824:PHE:CE1	1:A:846:TYR:CD1	2.93	0.41
1:A:862:VAL:O	1:A:863:GLU:C	2.57	0.41
1:A:980:LYS:HE3	1:A:980:LYS:HB3	1.78	0.41
1:A:1019:PHE:CD2	1:A:1020:TYR:CE1	3.08	0.41
1:A:1096:ASN:ND2	1:A:1099:SER:H	2.19	0.41
1:A:1112:GLN:HG3	1:A:1118:PHE:CE1	2.55	0.41
1:A:1227:PHE:CA	1:A:1228:TRP:CE3	3.03	0.41
1:B:357:VAL:O	1:B:359:THR:HG23	2.19	0.41
1:B:405:ASP:HA	1:B:406:PRO:HD3	1.60	0.41
1:B:468:ASP:O	1:B:484:ILE:HG13	2.19	0.41
1:B:604:ALA:O	1:B:772:SER:HB3	2.21	0.41
1:B:610:TYR:HB2	1:B:611:GLY:H	1.67	0.41
1:B:695:VAL:HA	1:B:698:CYS:HB2	2.02	0.41
1:B:889:GLU:H	1:B:889:GLU:CD	2.24	0.41
1:B:930:VAL:HG12	1:B:931:PRO:N	2.35	0.41
1:B:947:ARG:C	1:B:949:ILE:N	2.70	0.41
1:B:1037:ASP:HA	1:B:1038:PRO:HD3	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1162:VAL:O	1:B:1165:ASP:N	2.52	0.41
1:B:1324:HIS:CE1	1:B:1326:TYR:CE2	3.07	0.41
1:B:1435:ASN:HB2	1:B:1478:ARG:O	2.20	0.41
2:Y:179:LEU:HD11	2:Y:185:LYS:HA	2.02	0.41
1:A:33:VAL:HG23	1:A:120:THR:O	2.20	0.41
1:A:66:TYR:CE1	1:A:90:LYS:CG	2.97	0.41
1:A:185:PHE:HB3	1:A:186:PRO:HD3	2.00	0.41
1:A:295:GLY:C	1:A:296:ILE:CG1	2.88	0.41
1:A:504:LEU:HD12	1:A:509:ILE:HA	2.01	0.41
1:A:1180:LEU:HD11	1:A:1208:ILE:N	2.35	0.41
1:A:1440:LYS:HD3	1:A:1453:TYR:CZ	2.56	0.41
2:X:224:ILE:C	2:X:225:GLU:HG3	2.41	0.41
1:B:369:TYR:HA	1:B:370:PRO:HD3	1.66	0.41
1:B:387:PRO:C	1:B:388:VAL:HG23	2.41	0.41
1:B:743:SER:OG	1:B:752:LEU:HD22	2.20	0.41
1:B:984:VAL:CG1	1:B:1024:TYR:CE1	2.92	0.41
1:B:1081:PHE:CD2	1:B:1081:PHE:C	2.93	0.41
1:B:1175:LEU:HD23	1:B:1175:LEU:HA	1.69	0.41
1:A:120:THR:CG2	1:A:121:TYR:N	2.59	0.41
1:A:292:LEU:HD22	1:A:296:ILE:O	2.21	0.41
1:A:420:PHE:O	1:A:421:VAL:HG23	2.20	0.41
1:A:653:PHE:CZ	1:A:660:ASP:CA	2.92	0.41
1:B:93:PRO:HG2	1:B:96:GLN:OE1	2.21	0.41
1:B:171:VAL:O	1:B:171:VAL:HG12	2.19	0.41
1:B:244:LYS:HA	1:B:302:ASP:OD2	2.20	0.41
1:B:262:GLU:HG2	1:B:332:SER:HB2	2.03	0.41
1:B:700:TYR:CE1	1:B:758:LEU:CB	3.02	0.41
1:B:841:LEU:HD12	1:B:859:MET:CE	2.42	0.41
1:B:1030:HIS:O	1:B:1033:ILE:CG1	2.64	0.41
1:B:1132:THR:N	1:B:1135:VAL:HB	2.35	0.41
1:B:1152:ILE:O	1:B:1153:ARG:C	2.58	0.41
1:B:1378:TYR:CE1	1:B:1409:LYS:HE3	2.55	0.41
1:B:1401:ARG:HB2	1:B:1478:ARG:CB	2.50	0.41
1:B:1429:PRO:HG2	1:B:1511:THR:CB	2.44	0.41
2:Y:194:LYS:HA	2:Y:194:LYS:HD2	1.84	0.41
1:A:44:TYR:OH	1:A:497:THR:HB	2.21	0.41
1:A:262:GLU:HG2	1:A:332:SER:HB2	2.02	0.41
1:A:935:LYS:HD2	1:A:935:LYS:HA	1.83	0.41
1:A:1401:ARG:HB2	1:A:1478:ARG:CG	2.48	0.41
2:X:199:GLN:C	2:X:200:GLU:HG3	2.40	0.41
1:B:244:LYS:HE3	1:B:304:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:PHE:HE1	1:B:638:GLY:O	2.04	0.41
1:B:461:SER:C	1:B:463:SER:H	2.22	0.41
1:B:903:LEU:N	1:B:903:LEU:HD13	2.35	0.41
1:B:936:ARG:CZ	1:B:1002:HIS:HE1	2.34	0.41
1:B:1191:SER:O	1:B:1195:LEU:HG	2.20	0.41
1:A:30:ILE:HG22	1:A:31:PHE:O	2.20	0.41
1:A:256:TYR:HB2	1:A:895:LEU:HD12	2.02	0.41
1:A:337:SER:HB3	1:A:1437:GLU:OE2	2.21	0.41
1:A:700:TYR:O	1:A:702:GLY:N	2.53	0.41
1:A:1076:THR:HG22	1:A:1120:GLU:CD	2.41	0.41
1:A:1148:THR:O	1:A:1152:ILE:CD1	2.69	0.41
1:A:1244:THR:O	1:A:1285:TYR:CD2	2.73	0.41
1:A:1279:ARG:HE	1:A:1279:ARG:HB3	1.65	0.41
1:B:185:PHE:HB3	1:B:186:PRO:HD3	2.02	0.41
1:B:388:VAL:HG12	1:B:420:PHE:HZ	1.85	0.41
1:B:436:LYS:HD2	1:B:437:THR:O	2.20	0.41
1:B:752:LEU:C	1:B:753:HIS:CG	2.93	0.41
1:B:938:SER:HB3	1:B:1362:THR:HA	2.03	0.41
1:B:1000:LEU:HD23	1:B:1000:LEU:HA	1.87	0.41
1:B:1227:PHE:HA	1:B:1228:TRP:CE3	2.55	0.41
1:B:1278:GLN:CA	1:B:1278:GLN:HE21	2.33	0.41
2:Y:184:THR:O	2:Y:185:LYS:HB3	2.20	0.41
2:Y:186:TYR:HD2	2:Y:229:LYS:HD3	1.80	0.41
1:A:150:ASP:O	1:A:152:LEU:HD22	2.20	0.41
1:A:166:PRO:HG3	1:A:199:TRP:CD1	2.56	0.41
1:A:545:ILE:HG12	1:A:554:LEU:HD21	2.03	0.41
1:A:644:ASN:ND2	1:A:644:ASN:C	2.74	0.41
1:A:798:GLU:O	1:A:798:GLU:HG2	2.19	0.41
1:A:1144:LEU:O	1:A:1148:THR:CG2	2.67	0.41
1:A:1153:ARG:O	1:A:1155:ALA:N	2.53	0.41
1:A:1427:SER:HB3	1:A:1492:THR:N	2.29	0.41
1:A:1440:LYS:O	1:A:1444:GLU:CB	2.68	0.41
1:A:1456:LYS:O	1:A:1459:HIS:N	2.46	0.41
1:B:35:ALA:O	1:B:37:GLU:N	2.53	0.41
1:B:165:ASP:HA	1:B:166:PRO:HD3	1.82	0.41
1:B:169:SER:C	1:B:170:GLU:O	2.57	0.41
1:B:388:VAL:HG12	1:B:420:PHE:CZ	2.56	0.41
1:B:431:LEU:HD13	1:B:433:PHE:CD1	2.56	0.41
1:B:477:LEU:HA	1:B:564:GLU:CG	2.51	0.41
1:B:502:LEU:HD12	1:B:502:LEU:HA	1.77	0.41
1:B:560:TRP:CH2	1:B:562:ASN:CB	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:719:SER:HB2	1:B:1123:GLN:HE21	1.85	0.41
1:B:729:THR:O	1:B:733:VAL:HG23	2.20	0.41
1:B:1005:LYS:HB3	1:B:1005:LYS:HE3	1.86	0.41
1:B:1100:ILE:HG13	1:B:1158:ILE:HD12	2.03	0.41
1:B:1148:THR:O	1:B:1152:ILE:CG1	2.67	0.41
1:B:1162:VAL:O	1:B:1164:ILE:N	2.53	0.41
1:B:1342:LEU:HD23	1:B:1342:LEU:H	1.85	0.41
1:B:1364:VAL:HG12	1:B:1365:VAL:N	2.35	0.41
1:B:1488:LEU:HD12	1:B:1488:LEU:C	2.40	0.41
1:A:35:ALA:HA	1:A:150:ASP:OD1	2.21	0.41
1:A:43:VAL:HG22	1:A:44:TYR:N	2.36	0.41
1:A:56:ILE:CD1	1:A:66:TYR:HB2	2.51	0.41
1:A:102:VAL:HG13	1:A:119:ILE:HG21	2.03	0.41
1:A:107:VAL:HG12	1:A:108:SER:N	2.36	0.41
1:A:149:ASN:HB2	1:A:150:ASP:OD2	2.21	0.41
1:A:237:PHE:O	1:A:238:ILE:CG1	2.69	0.41
1:A:553:GLU:OE1	1:A:555:VAL:HG23	2.21	0.41
1:A:703:ALA:CB	1:A:732:CYS:HA	2.51	0.41
1:A:840:GLN:HE21	1:A:840:GLN:HB3	1.75	0.41
1:A:897:THR:C	1:A:898:PHE:CD2	2.94	0.41
1:A:1096:ASN:HD22	1:A:1099:SER:H	1.69	0.41
1:B:56:ILE:O	1:B:66:TYR:CD2	2.74	0.41
1:B:162:THR:O	1:B:162:THR:OG1	2.32	0.41
1:B:1076:THR:HG22	1:B:1120:GLU:CD	2.41	0.41
1:B:1176:LEU:O	1:B:1178:ASN:N	2.54	0.41
1:B:1324:HIS:HE1	1:B:1326:TYR:CE2	2.39	0.41
1:B:1405:CYS:N	1:B:1474:CYS:SG	2.87	0.41
1:A:33:VAL:HB	1:A:209:PHE:HE2	1.86	0.41
1:A:50:PHE:CB	1:A:109:LYS:HE2	2.51	0.41
1:A:54:ILE:O	1:A:55:SER:HB3	2.21	0.41
1:A:144:ARG:HG2	1:A:775:TRP:HZ2	1.84	0.41
1:A:149:ASN:O	1:A:150:ASP:C	2.58	0.41
1:A:324:TYR:OH	1:A:326:ALA:HB2	2.20	0.41
1:A:431:LEU:O	1:A:453:ARG:HA	2.21	0.41
1:A:438:ASP:C	1:A:439:ALA:O	2.58	0.41
1:A:614:ARG:O	1:A:615:GLY:C	2.59	0.41
1:A:654:LEU:HD12	1:A:654:LEU:HA	1.57	0.41
1:A:944:LEU:HD23	1:A:944:LEU:HA	1.77	0.41
1:A:946:PRO:CD	1:A:947:ARG:H	2.30	0.41
1:A:987:ILE:CG1	1:A:1294:ILE:HD12	2.51	0.41
1:A:1040:ILE:HD13	1:A:1040:ILE:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1117:SER:HA	1:A:1145:THR:HG21	2.02	0.41
1:A:1127:ILE:HD12	1:A:1127:ILE:O	2.21	0.41
1:A:1166:THR:HG22	1:A:1167:ALA:N	2.35	0.41
1:A:1173:ASN:O	1:A:1174:PHE:C	2.59	0.41
1:A:1212:LEU:O	1:A:1215:GLU:N	2.53	0.41
1:A:1290:THR:O	1:A:1294:ILE:CG1	2.67	0.41
1:A:1497:GLU:O	1:A:1498:TYR:C	2.58	0.41
2:X:217:ASN:HB2	2:X:220:ASP:CG	2.41	0.41
1:B:80:GLN:HB3	1:B:512:PHE:HE1	1.84	0.41
1:B:193:ASN:OD1	1:B:1070:LYS:CE	2.69	0.41
1:B:257:ASN:CG	1:B:257:ASN:O	2.59	0.41
1:B:284:GLN:CD	1:B:310:LEU:HD22	2.41	0.41
1:B:313:TYR:CE2	1:B:321:LYS:HD2	2.56	0.41
1:B:350:SER:HA	1:B:351:PRO:HD3	1.74	0.41
1:B:504:LEU:HA	1:B:509:ILE:HA	2.03	0.41
1:B:515:ARG:NH1	1:B:526:ILE:HA	2.36	0.41
1:B:587:THR:HA	1:B:789:ALA:HA	2.03	0.41
1:B:589:SER:CB	1:B:785:GLN:HE21	2.33	0.41
1:B:599:TRP:CZ3	1:B:779:LEU:HB2	2.56	0.41
1:B:760:VAL:O	1:B:761:SER:HB3	2.21	0.41
1:B:838:GLN:HB3	1:B:1486:GLY:CA	2.50	0.41
1:B:855:PHE:CD2	1:B:888:VAL:HG13	2.56	0.41
1:B:897:THR:O	1:B:898:PHE:CD2	2.74	0.41
1:B:909:ASN:H	1:B:926:THR:HA	1.86	0.41
1:B:1023:HIS:HA	1:B:1092:TYR:OH	2.21	0.41
1:B:1193:TYR:CZ	1:B:1256:LEU:HD13	2.55	0.41
1:B:1284:PHE:CD2	1:B:1285:TYR:CD1	3.08	0.41
1:B:1443:VAL:CG2	1:B:1444:GLU:N	2.84	0.41
1:B:1489:SER:HA	1:B:1490:PRO:HD3	1.95	0.41
2:Y:158:GLU:HA	2:Y:219:LYS:HZ1	1.85	0.41
2:Y:162:LEU:HA	2:Y:165:LEU:CB	2.50	0.41
1:A:27:ALA:HB1	1:A:28:PRO:HD2	2.03	0.41
1:A:308:LYS:HB2	1:A:308:LYS:HE3	1.83	0.41
1:A:355:ASN:O	1:A:356:LEU:C	2.58	0.41
1:A:387:PRO:C	1:A:388:VAL:HG23	2.41	0.41
1:A:440:PRO:CD	1:A:441:ASP:H	2.33	0.41
1:A:620:LEU:CD1	1:A:811:VAL:H	2.31	0.41
1:A:709:GLU:CA	1:A:713:GLN:OE1	2.69	0.41
1:A:886:GLN:HG3	1:A:887:LYS:H	1.86	0.41
1:A:1069:TRP:HE1	1:A:1463:GLN:HE21	1.67	0.41
1:A:1500:ARG:HA	1:A:1501:PRO:HD2	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:143:GLY:C	2:X:145:ASN:N	2.66	0.41
2:X:186:TYR:HD2	2:X:229:LYS:HB3	1.86	0.41
1:B:23:TYR:HA	1:B:43:VAL:HG23	2.01	0.41
1:B:240:TYR:CE1	1:B:443:PRO:CG	3.04	0.41
1:B:325:ILE:HD13	1:B:325:ILE:HG21	1.81	0.41
1:B:356:LEU:HD12	1:B:452:TYR:CD1	2.55	0.41
1:B:409:SER:OG	1:B:410:VAL:N	2.53	0.41
1:B:412:ARG:HD3	1:B:414:ASP:OD2	2.20	0.41
1:B:614:ARG:O	1:B:615:GLY:C	2.59	0.41
1:B:639:GLY:N	1:B:645:VAL:HA	2.36	0.41
1:B:765:ILE:HD11	1:B:769:PHE:HE2	1.84	0.41
1:B:837:GLU:CG	1:B:1488:LEU:HA	2.46	0.41
1:B:935:LYS:O	1:B:1365:VAL:O	2.39	0.41
1:B:978:SER:HB2	1:B:1280:TYR:CD2	2.56	0.41
1:B:1020:TYR:CZ	1:B:1295:GLU:HB2	2.56	0.41
1:B:1475:VAL:CG2	1:B:1476:ARG:N	2.84	0.41
1:A:141:VAL:CG2	1:A:190:ILE:HD11	2.51	0.40
1:A:157:ARG:O	1:A:178:ASP:CB	2.66	0.40
1:A:394:THR:HG21	1:A:428:VAL:HG23	2.02	0.40
1:A:465:LEU:HD13	1:A:544:TYR:CD1	2.57	0.40
1:A:518:PHE:O	1:A:519:SER:C	2.60	0.40
1:A:689:LYS:HB3	1:A:689:LYS:HE2	1.81	0.40
1:A:722:PRO:HA	1:A:725:ILE:HG13	2.03	0.40
1:A:903:LEU:HD13	1:A:903:LEU:N	2.34	0.40
1:A:1008:ALA:O	1:A:1011:GLU:N	2.54	0.40
1:A:1202:HIS:HD2	1:A:1204:GLN:N	2.12	0.40
1:A:1443:VAL:CG2	1:A:1444:GLU:N	2.82	0.40
2:X:179:LEU:HA	2:X:184:THR:HB	2.03	0.40
2:X:186:TYR:O	2:X:229:LYS:HB3	2.21	0.40
1:B:136:THR:HA	1:B:220:LYS:O	2.22	0.40
1:B:254:TYR:OH	1:B:331:GLU:HG3	2.22	0.40
1:B:305:THR:HB	1:B:306:ALA:H	1.73	0.40
1:B:308:LYS:HA	1:B:313:TYR:O	2.20	0.40
1:B:348:VAL:HG12	1:B:350:SER:N	2.36	0.40
1:B:478:VAL:HG12	1:B:564:GLU:OE1	2.20	0.40
1:B:512:PHE:CE2	2:Y:148:ALA:HB3	2.56	0.40
1:B:768:TYR:HE2	1:B:770:PRO:HA	1.83	0.40
1:B:912:PHE:O	1:B:922:ILE:HA	2.21	0.40
1:B:1061:ASN:HB3	1:B:1062:ALA:H	1.62	0.40
1:B:1077:TRP:HB2	1:B:1120:GLU:OE1	2.21	0.40
1:B:1084:ARG:HB2	1:B:1151:GLY:HA2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1232:LEU:O	1:B:1232:LEU:HG	2.21	0.40
1:B:1259:LEU:HD13	1:B:1300:TYR:HB2	2.02	0.40
1:B:1278:GLN:HE21	1:B:1278:GLN:N	2.19	0.40
1:B:1280:TYR:OH	1:B:1337:PRO:CG	2.69	0.40
1:A:227:PHE:CZ	1:A:338:GLU:HB2	2.57	0.40
1:A:424:LEU:HD23	1:A:424:LEU:HA	1.73	0.40
1:A:495:LYS:CE	1:A:495:LYS:HA	2.51	0.40
1:A:541:LEU:HG	1:A:556:SER:OG	2.21	0.40
1:A:914:LEU:HD12	1:A:914:LEU:O	2.22	0.40
1:A:1022:PHE:HE2	1:A:1092:TYR:CD1	2.39	0.40
1:A:1193:TYR:CE2	1:A:1197:LEU:HD11	2.56	0.40
1:A:1464:LEU:HD12	1:A:1464:LEU:N	2.36	0.40
1:B:144:ARG:NH2	1:B:602:LEU:O	2.50	0.40
1:B:170:GLU:O	1:B:171:VAL:CG2	2.68	0.40
1:B:189:LYS:HG3	1:B:190:ILE:N	2.33	0.40
1:B:576:SER:OG	1:B:589:SER:CB	2.58	0.40
1:B:942:VAL:HG22	1:B:957:LYS:CD	2.50	0.40
1:B:1255:LEU:HB2	1:B:1270:VAL:CG1	2.44	0.40
1:A:816:LYS:O	1:A:817:ALA:HB2	2.22	0.40
1:A:832:SER:HB2	1:A:930:VAL:CG2	2.50	0.40
1:A:960:PRO:HB3	1:A:1345:ASP:OD1	2.22	0.40
1:A:963:ILE:HA	1:A:964:PRO:HD3	1.94	0.40
1:A:991:VAL:O	1:A:991:VAL:CG1	2.69	0.40
1:A:1143:TYR:CE1	1:A:1186:PHE:CZ	3.07	0.40
1:A:1153:ARG:O	1:A:1156:PHE:N	2.46	0.40
1:A:1186:PHE:HD1	1:A:1250:THR:CG2	2.28	0.40
1:A:1200:LYS:H	1:A:1200:LYS:HG2	1.39	0.40
1:A:1303:LEU:HD13	1:A:1303:LEU:C	2.41	0.40
1:A:1446:VAL:HG12	1:A:1446:VAL:O	2.20	0.40
1:B:23:TYR:CD1	1:B:23:TYR:N	2.88	0.40
1:B:115:LYS:HG3	1:B:116:ARG:H	1.79	0.40
1:B:360:PRO:CA	1:B:636:ALA:HB3	2.45	0.40
1:B:457:TYR:HD2	1:B:458:SER:O	2.05	0.40
1:B:486:VAL:HG21	1:B:526:ILE:CD1	2.52	0.40
1:B:896:VAL:HG12	1:B:897:THR:H	1.86	0.40
1:B:907:LEU:HD12	1:B:908:HIS:N	2.37	0.40
1:B:936:ARG:HB3	1:B:1364:VAL:HG22	2.01	0.40
1:B:940:SER:HB2	1:B:959:PHE:CE1	2.49	0.40
1:B:1042:LYS:HG2	1:B:1046:LYS:HE3	2.03	0.40
1:B:1180:LEU:HD11	1:B:1208:ILE:N	2.36	0.40
1:B:1295:GLU:O	1:B:1296:GLY:O	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Y:193:LEU:CD2	2:Y:221:ILE:HG12	2.51	0.40
1:A:77:ASN:HD21	1:A:81:ASN:ND2	2.19	0.40
1:A:224:LEU:HD13	1:A:225:PRO:CD	2.52	0.40
1:A:254:TYR:CE2	1:A:260:VAL:HG22	2.57	0.40
1:A:310:LEU:HD23	1:A:310:LEU:N	2.37	0.40
1:A:357:VAL:O	1:A:358:ALA:C	2.59	0.40
1:A:404:LEU:HB3	1:A:405:ASP:H	1.76	0.40
1:A:610:TYR:HB3	1:A:614:ARG:HD2	2.00	0.40
1:A:987:ILE:HG22	1:A:1021:VAL:CG2	2.52	0.40
1:A:1204:GLN:O	1:A:1208:ILE:HG13	2.22	0.40
1:A:1280:TYR:CD2	1:A:1281:GLY:N	2.89	0.40
1:A:1295:GLU:O	1:A:1299:GLU:HB2	2.20	0.40
1:A:1323:LEU:CG	1:A:1324:HIS:N	2.84	0.40
1:A:1368:THR:O	1:A:1508:PHE:CE2	2.71	0.40
1:A:1401:ARG:HG3	1:A:1478:ARG:HG2	2.03	0.40
1:B:132:LYS:HB2	1:B:609:VAL:HG11	2.02	0.40
1:B:545:ILE:HG12	1:B:554:LEU:HD21	2.02	0.40
1:B:721:GLY:HA2	1:B:722:PRO:HD3	1.97	0.40
1:B:946:PRO:CD	1:B:947:ARG:H	2.35	0.40
1:B:1019:PHE:CE2	1:B:1020:TYR:CD1	3.08	0.40
1:B:1062:ALA:C	1:B:1064:TYR:H	2.23	0.40
1:B:1104:LEU:O	1:B:1108:VAL:HG12	2.21	0.40
1:B:1280:TYR:HD1	1:B:1362:THR:HG22	1.86	0.40
1:B:1446:VAL:HG12	1:B:1446:VAL:O	2.22	0.40
1:A:342:ILE:O	1:A:343:PRO:C	2.60	0.40
1:A:357:VAL:CG2	1:A:374:GLN:HB3	2.52	0.40
1:A:758:LEU:C	1:A:760:VAL:N	2.73	0.40
1:A:981:GLY:CA	1:A:1309:LEU:HD11	2.47	0.40
1:A:1037:ASP:OD1	1:A:1038:PRO:N	2.54	0.40
1:A:1454:GLN:HG3	1:A:1454:GLN:O	2.22	0.40
1:A:1461:ILE:O	1:A:1461:ILE:HG22	2.22	0.40
1:B:148:LEU:HA	1:B:148:LEU:HD12	1.77	0.40
1:B:309:GLU:HG3	1:B:309:GLU:O	2.22	0.40
1:B:424:LEU:HA	1:B:424:LEU:HD23	1.88	0.40
1:B:576:SER:HB2	1:B:577:PRO:HD3	2.03	0.40
1:B:682:LYS:O	1:B:682:LYS:HD2	2.22	0.40
1:B:987:ILE:O	1:B:1021:VAL:HG21	2.21	0.40
1:B:1161:LEU:HD12	1:B:1162:VAL:CG2	2.52	0.40
1:B:1271:ILE:C	1:B:1271:ILE:CD1	2.86	0.40
1:B:1364:VAL:CG1	1:B:1365:VAL:N	2.84	0.40
2:Y:219:LYS:N	2:Y:219:LYS:CD	2.73	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1449/1676 (86%)	1039 (72%)	255 (18%)	155 (11%)	0	8
1	B	1449/1676 (86%)	1026 (71%)	274 (19%)	149 (10%)	0	9
2	X	100/103 (97%)	86 (86%)	9 (9%)	5 (5%)	2	23
2	Y	100/103 (97%)	84 (84%)	11 (11%)	5 (5%)	2	23
All	All	3098/3558 (87%)	2235 (72%)	549 (18%)	314 (10%)	0	10

All (314) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	59	TYR
1	A	86	THR
1	A	97	ASN
1	A	99	VAL
1	A	170	GLU
1	A	174	VAL
1	A	207	GLU
1	A	209	PHE
1	A	282	MET
1	A	289	ASN
1	A	291	MET
1	A	305	THR
1	A	316	GLU
1	A	317	ASP
1	A	318	LEU
1	A	426	SER
1	A	457	TYR
1	A	477	LEU
1	A	480	GLU
1	A	489	LYS

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Mol	Chain	Res	Type
1	A	490	SER
1	A	519	SER
1	A	520	ASP
1	A	522	SER
1	A	609	VAL
1	A	610	TYR
1	A	638	GLY
1	A	657	ALA
1	A	662	SER
1	A	700	TYR
1	A	704	CYS
1	A	720	LEU
1	A	863	GLU
1	A	1231	ASN
1	A	1264	ILE
1	A	1275	SER
1	A	1284	PHE
1	A	1286	SER
1	A	1297	LEU
1	A	1304	VAL
1	A	1311	MET
1	A	1335	GLY
1	A	1342	LEU
1	A	1373	GLU
1	A	1433	SER
2	X	185	LYS
1	B	59	TYR
1	B	97	ASN
1	B	99	VAL
1	B	133	PRO
1	B	174	VAL
1	B	207	GLU
1	B	209	PHE
1	B	282	MET
1	B	289	ASN
1	B	305	THR
1	B	426	SER
1	B	457	TYR
1	B	490	SER
1	B	520	ASP
1	B	522	SER
1	B	609	VAL

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Mol	Chain	Res	Type
1	B	610	TYR
1	B	638	GLY
1	B	657	ALA
1	B	661	ASP
1	B	700	TYR
1	B	704	CYS
1	B	720	LEU
1	B	863	GLU
1	B	949	ILE
1	B	1068	VAL
1	B	1097	GLN
1	B	1231	ASN
1	B	1264	ILE
1	B	1284	PHE
1	B	1311	MET
1	B	1335	GLY
1	B	1342	LEU
1	B	1373	GLU
1	B	1433	SER
2	Y	185	LYS
1	A	90	LYS
1	A	101	TYR
1	A	150	ASP
1	A	302	ASP
1	A	304	GLU
1	A	306	ALA
1	A	307	VAL
1	A	308	LYS
1	A	523	TYR
1	A	615	GLY
1	A	619	PRO
1	A	661	ASP
1	A	669	CYS
1	A	705	VAL
1	A	814	THR
1	A	817	ALA
1	A	909	ASN
1	A	931	PRO
1	A	996	GLY
1	A	1007	SER
1	A	1029	ASN
1	A	1055	SER

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Mol	Chain	Res	Type
1	A	1097	GLN
1	A	1166	THR
1	A	1216	ALA
1	A	1296	GLY
1	A	1312	ASP
1	A	1321	GLY
1	A	1352	PHE
1	A	1457	ASP
1	A	1486	GLY
2	X	144	GLY
1	B	28	PRO
1	B	86	THR
1	B	90	LYS
1	B	101	TYR
1	B	170	GLU
1	B	291	MET
1	B	302	ASP
1	B	304	GLU
1	B	307	VAL
1	B	308	LYS
1	B	378	SER
1	B	388	VAL
1	B	480	GLU
1	B	489	LYS
1	B	495	LYS
1	B	607	SER
1	B	612	VAL
1	B	619	PRO
1	B	662	SER
1	B	669	CYS
1	B	710	THR
1	B	814	THR
1	B	817	ALA
1	B	909	ASN
1	B	931	PRO
1	B	948	GLY
1	B	996	GLY
1	B	1029	ASN
1	B	1098	ASN
1	B	1162	VAL
1	B	1177	GLU
1	B	1216	ALA

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Mol	Chain	Res	Type
1	B	1286	SER
1	B	1296	GLY
1	B	1297	LEU
1	B	1304	VAL
1	B	1310	SER
2	Y	144	GLY
2	Y	195	ASP
1	A	85	LEU
1	A	133	PRO
1	A	173	MET
1	A	231	ILE
1	A	272	ARG
1	A	356	LEU
1	A	388	VAL
1	A	491	PRO
1	A	612	VAL
1	A	625	GLN
1	A	648	LEU
1	A	660	ASP
1	A	663	GLN
1	A	691	LYS
1	A	793	SER
1	A	1240	PRO
1	A	1247	MET
1	A	1263	ASP
1	A	1308	ARG
1	A	1310	SER
2	X	195	ASP
1	B	36	SER
1	B	150	ASP
1	B	186	PRO
1	B	240	TYR
1	B	306	ALA
1	B	356	LEU
1	B	445	GLU
1	B	491	PRO
1	B	519	SER
1	B	617	LYS
1	B	627	LEU
1	B	660	ASP
1	B	663	GLN
1	B	666	ASP

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Mol	Chain	Res	Type
1	B	691	LYS
1	B	793	SER
1	B	856	CYS
1	B	1105	LEU
1	B	1240	PRO
1	B	1269	PRO
1	B	1280	TYR
1	B	1308	ARG
1	B	1312	ASP
1	B	1341	LEU
1	B	1352	PHE
1	B	1457	ASP
1	A	62	LYS
1	A	129	HIS
1	A	141	VAL
1	A	166	PRO
1	A	186	PRO
1	A	425	PRO
1	A	492	TYR
1	A	495	LYS
1	A	607	SER
1	A	627	LEU
1	A	717	ARG
1	A	815	VAL
1	A	856	CYS
1	A	993	SER
1	A	1016	VAL
1	A	1101	CYS
1	A	1113	LEU
1	A	1114	ASP
1	A	1153	ARG
1	A	1177	GLU
1	A	1280	TYR
1	A	1341	LEU
1	A	1349	SER
1	A	1444	GLU
1	A	1468	PRO
1	B	62	LYS
1	B	166	PRO
1	B	173	MET
1	B	398	ASN
1	B	425	PRO

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Mol	Chain	Res	Type
1	B	492	TYR
1	B	625	GLN
1	B	759	PRO
1	B	952	THR
1	B	982	LEU
1	B	1007	SER
1	B	1055	SER
1	B	1057	MET
1	B	1084	ARG
1	B	1153	ARG
1	B	1444	GLU
1	A	497	THR
1	A	536	PRO
1	A	666	ASP
1	A	710	THR
1	A	759	PRO
1	A	892	SER
1	A	969	PRO
1	A	1122	SER
1	A	1481	GLU
1	A	1501	PRO
1	B	78	LYS
1	B	85	LEU
1	B	312	TYR
1	B	320	ASN
1	B	536	PRO
1	B	664	GLU
1	B	667	GLU
1	B	892	SER
1	B	993	SER
1	B	1126	PRO
1	B	1218	VAL
1	B	1239	VAL
1	B	1468	PRO
1	B	1501	PRO
1	A	299	VAL
1	A	617	LYS
1	A	667	GLU
1	A	760	VAL
1	A	1036	SER
1	A	1126	PRO
1	A	1181	PRO

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Mol	Chain	Res	Type
1	A	1432	ILE
1	B	111	PHE
1	B	343	PRO
1	B	565	GLU
1	B	760	VAL
1	B	815	VAL
1	B	1009	GLU
1	B	1263	ASP
1	B	1486	GLY
1	A	686	ILE
1	A	1269	PRO
2	X	178	GLY
1	A	1108	VAL
2	X	196	GLY
1	B	705	VAL
1	B	1016	VAL
1	B	1268	ASN
1	B	1347	ILE
2	Y	196	GLY
1	A	92	LEU
1	A	765	ILE
1	A	1135	VAL
1	A	1218	VAL
1	A	1239	VAL
1	B	92	LEU
1	B	231	ILE
1	B	615	GLY
1	B	1038	PRO
1	B	1432	ILE
1	A	28	PRO
1	A	296	ILE
1	A	510	ILE
1	A	1162	VAL
1	B	171	VAL
1	B	345	ILE
1	B	686	ILE
2	Y	178	GLY
1	A	238	ILE
1	A	668	PRO
1	A	1038	PRO
1	A	1068	VAL
1	B	668	PRO

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	1296/1484 (87%)	1061 (82%)	235 (18%)	1	11
1	B	1296/1484 (87%)	1051 (81%)	245 (19%)	1	10
2	X	93/94 (99%)	87 (94%)	6 (6%)	17	44
2	Y	93/94 (99%)	86 (92%)	7 (8%)	13	40
All	All	2778/3156 (88%)	2285 (82%)	493 (18%)	2	12

All (493) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	22	THR
1	A	23	TYR
1	A	41	ILE
1	A	42	GLN
1	A	51	ASP
1	A	56	ILE
1	A	64	PHE
1	A	73	LEU
1	A	81	ASN
1	A	88	GLN
1	A	100	SER
1	A	109	LYS
1	A	112	SER
1	A	114	SER
1	A	116	ARG
1	A	119	ILE
1	A	123	ASN
1	A	125	PHE
1	A	126	LEU
1	A	128	ILE
1	A	130	THR
1	A	131	ASP
1	A	140	SER
1	A	143	VAL

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Mol	Chain	Res	Type
1	A	144	ARG
1	A	151	ASP
1	A	161	LEU
1	A	162	THR
1	A	163	PHE
1	A	169	SER
1	A	175	GLU
1	A	176	GLU
1	A	177	ILE
1	A	180	ILE
1	A	184	SER
1	A	192	SER
1	A	195	ARG
1	A	224	LEU
1	A	231	ILE
1	A	232	GLU
1	A	235	TYR
1	A	242	ASN
1	A	249	THR
1	A	264	ASP
1	A	273	GLU
1	A	280	LYS
1	A	296	ILE
1	A	299	VAL
1	A	312	TYR
1	A	313	TYR
1	A	324	TYR
1	A	333	THR
1	A	349	LEU
1	A	354	LEU
1	A	363	LEU
1	A	364	LYS
1	A	373	VAL
1	A	378	SER
1	A	381	GLN
1	A	383	VAL
1	A	386	VAL
1	A	389	THR
1	A	393	GLN
1	A	394	THR
1	A	403	ASP
1	A	411	THR

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Mol	Chain	Res	Type
1	A	419	SER
1	A	421	VAL
1	A	422	LEU
1	A	423	ASN
1	A	431	LEU
1	A	433	PHE
1	A	436	LYS
1	A	441	ASP
1	A	457	TYR
1	A	461	SER
1	A	466	TYR
1	A	469	TRP
1	A	473	HIS
1	A	476	LEU
1	A	482	LEU
1	A	484	ILE
1	A	492	TYR
1	A	493	ILE
1	A	495	LYS
1	A	497	THR
1	A	504	LEU
1	A	518	PHE
1	A	528	ILE
1	A	535	VAL
1	A	539	ARG
1	A	540	LEU
1	A	541	LEU
1	A	544	TYR
1	A	556	SER
1	A	563	ILE
1	A	570	GLN
1	A	573	VAL
1	A	588	VAL
1	A	589	SER
1	A	594	THR
1	A	624	PHE
1	A	631	ASP
1	A	640	LEU
1	A	641	ASN
1	A	644	ASN
1	A	648	LEU
1	A	652	THR

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Mol	Chain	Res	Type
1	A	653	PHE
1	A	667	GLU
1	A	673	LEU
1	A	680	GLN
1	A	705	VAL
1	A	710	THR
1	A	711	CYS
1	A	712	GLU
1	A	724	CYS
1	A	729	THR
1	A	753	HIS
1	A	758	LEU
1	A	767	SER
1	A	786	LEU
1	A	790	LEU
1	A	799	ILE
1	A	800	GLN
1	A	802	ILE
1	A	804	ILE
1	A	809	ILE
1	A	814	THR
1	A	840	GLN
1	A	866	CYS
1	A	867	THR
1	A	886	GLN
1	A	887	LYS
1	A	891	SER
1	A	894	HIS
1	A	895	LEU
1	A	897	THR
1	A	900	VAL
1	A	901	LEU
1	A	903	LEU
1	A	908	HIS
1	A	921	GLU
1	A	924	VAL
1	A	926	THR
1	A	927	LEU
1	A	935	LYS
1	A	936	ARG
1	A	942	VAL
1	A	949	ILE

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Mol	Chain	Res	Type
1	A	952	THR
1	A	957	LYS
1	A	961	TYR
1	A	962	ARG
1	A	973	ILE
1	A	979	VAL
1	A	980	LYS
1	A	982	LEU
1	A	983	LEU
1	A	986	GLU
1	A	995	GLU
1	A	998	ASN
1	A	1001	THR
1	A	1003	LEU
1	A	1015	VAL
1	A	1024	TYR
1	A	1027	THR
1	A	1029	ASN
1	A	1033	ILE
1	A	1039	LEU
1	A	1040	ILE
1	A	1053	MET
1	A	1056	ILE
1	A	1076	THR
1	A	1084	ARG
1	A	1096	ASN
1	A	1101	CYS
1	A	1115	ASN
1	A	1127	ILE
1	A	1128	LYS
1	A	1132	THR
1	A	1140	ASN
1	A	1147	PHE
1	A	1148	THR
1	A	1158	ILE
1	A	1161	LEU
1	A	1164	ILE
1	A	1168	LEU
1	A	1200	LYS
1	A	1208	ILE
1	A	1210	SER
1	A	1217	LEU

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Mol	Chain	Res	Type
1	A	1218	VAL
1	A	1228	TRP
1	A	1229	LYS
1	A	1232	LEU
1	A	1251	THR
1	A	1257	THR
1	A	1274	LEU
1	A	1278	GLN
1	A	1291	ILE
1	A	1297	LEU
1	A	1301	SER
1	A	1307	LEU
1	A	1311	MET
1	A	1313	ILE
1	A	1316	SER
1	A	1318	LYS
1	A	1325	ASN
1	A	1332	ASN
1	A	1334	LEU
1	A	1336	ARG
1	A	1342	LEU
1	A	1343	ASN
1	A	1345	ASP
1	A	1347	ILE
1	A	1365	VAL
1	A	1376	SER
1	A	1383	THR
1	A	1401	ARG
1	A	1437	GLU
1	A	1443	VAL
1	A	1464	LEU
1	A	1465	ASN
1	A	1476	ARG
1	A	1480	PHE
1	A	1483	PHE
1	A	1487	PHE
1	A	1488	LEU
1	A	1496	TYR
1	A	1500	ARG
1	A	1503	LYS
1	A	1507	MET
1	A	1509	TYR

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Mol	Chain	Res	Type
1	A	1511	THR
2	X	134	THR
2	X	136	LEU
2	X	146	LEU
2	X	150	ILE
2	X	166	ASP
2	X	184	THR
1	B	23	TYR
1	B	24	VAL
1	B	26	SER
1	B	41	ILE
1	B	42	GLN
1	B	51	ASP
1	B	56	ILE
1	B	59	TYR
1	B	64	PHE
1	B	73	LEU
1	B	81	ASN
1	B	88	GLN
1	B	100	SER
1	B	109	LYS
1	B	112	SER
1	B	114	SER
1	B	116	ARG
1	B	119	ILE
1	B	123	ASN
1	B	125	PHE
1	B	126	LEU
1	B	128	ILE
1	B	130	THR
1	B	131	ASP
1	B	148	LEU
1	B	151	ASP
1	B	160	VAL
1	B	161	LEU
1	B	162	THR
1	B	163	PHE
1	B	175	GLU
1	B	176	GLU
1	B	177	ILE
1	B	180	ILE
1	B	184	SER

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Mol	Chain	Res	Type
1	B	188	PHE
1	B	189	LYS
1	B	194	PRO
1	B	195	ARG
1	B	212	THR
1	B	224	LEU
1	B	231	ILE
1	B	232	GLU
1	B	235	TYR
1	B	242	ASN
1	B	249	THR
1	B	253	ARG
1	B	257	ASN
1	B	264	ASP
1	B	273	GLU
1	B	280	LYS
1	B	290	THR
1	B	296	ILE
1	B	299	VAL
1	B	312	TYR
1	B	317	ASP
1	B	318	LEU
1	B	324	TYR
1	B	333	THR
1	B	349	LEU
1	B	354	LEU
1	B	363	LEU
1	B	364	LYS
1	B	373	VAL
1	B	378	SER
1	B	379	LEU
1	B	383	VAL
1	B	386	VAL
1	B	389	THR
1	B	393	GLN
1	B	394	THR
1	B	403	ASP
1	B	411	THR
1	B	421	VAL
1	B	422	LEU
1	B	423	ASN
1	B	431	LEU

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Mol	Chain	Res	Type
1	B	433	PHE
1	B	436	LYS
1	B	441	ASP
1	B	457	TYR
1	B	461	SER
1	B	463	SER
1	B	466	TYR
1	B	469	TRP
1	B	473	HIS
1	B	476	LEU
1	B	484	ILE
1	B	492	TYR
1	B	493	ILE
1	B	495	LYS
1	B	497	THR
1	B	500	ASN
1	B	502	LEU
1	B	509	ILE
1	B	517	LYS
1	B	528	ILE
1	B	535	VAL
1	B	539	ARG
1	B	540	LEU
1	B	541	LEU
1	B	544	TYR
1	B	553	GLU
1	B	556	SER
1	B	563	ILE
1	B	570	GLN
1	B	573	VAL
1	B	588	VAL
1	B	589	SER
1	B	594	THR
1	B	624	PHE
1	B	640	LEU
1	B	641	ASN
1	B	644	ASN
1	B	648	LEU
1	B	652	THR
1	B	653	PHE
1	B	667	GLU
1	B	669	CYS

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Mol	Chain	Res	Type
1	B	673	LEU
1	B	680	GLN
1	B	699	CYS
1	B	704	CYS
1	B	705	VAL
1	B	707	ASN
1	B	711	CYS
1	B	729	THR
1	B	753	HIS
1	B	758	LEU
1	B	767	SER
1	B	786	LEU
1	B	790	LEU
1	B	795	THR
1	B	799	ILE
1	B	802	ILE
1	B	804	ILE
1	B	809	ILE
1	B	814	THR
1	B	840	GLN
1	B	866	CYS
1	B	867	THR
1	B	886	GLN
1	B	887	LYS
1	B	891	SER
1	B	894	HIS
1	B	895	LEU
1	B	897	THR
1	B	900	VAL
1	B	901	LEU
1	B	903	LEU
1	B	908	HIS
1	B	924	VAL
1	B	926	THR
1	B	927	LEU
1	B	932	GLU
1	B	935	LYS
1	B	936	ARG
1	B	952	THR
1	B	961	TYR
1	B	962	ARG
1	B	972	GLU

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Mol	Chain	Res	Type
1	B	973	ILE
1	B	975	ARG
1	B	976	ILE
1	B	980	LYS
1	B	982	LEU
1	B	983	LEU
1	B	986	GLU
1	B	995	GLU
1	B	998	ASN
1	B	1001	THR
1	B	1003	LEU
1	B	1015	VAL
1	B	1024	TYR
1	B	1027	THR
1	B	1029	ASN
1	B	1040	ILE
1	B	1053	MET
1	B	1056	ILE
1	B	1069	TRP
1	B	1096	ASN
1	B	1108	VAL
1	B	1115	ASN
1	B	1127	ILE
1	B	1128	LYS
1	B	1132	THR
1	B	1140	ASN
1	B	1147	PHE
1	B	1148	THR
1	B	1158	ILE
1	B	1161	LEU
1	B	1164	ILE
1	B	1168	LEU
1	B	1200	LYS
1	B	1206	ARG
1	B	1208	ILE
1	B	1210	SER
1	B	1213	LYS
1	B	1217	LEU
1	B	1218	VAL
1	B	1226	ARG
1	B	1228	TRP
1	B	1232	LEU

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Mol	Chain	Res	Type
1	B	1251	THR
1	B	1257	THR
1	B	1269	PRO
1	B	1271	ILE
1	B	1278	GLN
1	B	1279	ARG
1	B	1280	TYR
1	B	1297	LEU
1	B	1301	SER
1	B	1307	LEU
1	B	1311	MET
1	B	1313	ILE
1	B	1316	SER
1	B	1318	LYS
1	B	1325	ASN
1	B	1332	ASN
1	B	1334	LEU
1	B	1336	ARG
1	B	1342	LEU
1	B	1343	ASN
1	B	1344	ASP
1	B	1345	ASP
1	B	1347	ILE
1	B	1358	THR
1	B	1376	SER
1	B	1383	THR
1	B	1401	ARG
1	B	1443	VAL
1	B	1464	LEU
1	B	1465	ASN
1	B	1474	CYS
1	B	1476	ARG
1	B	1480	PHE
1	B	1483	PHE
1	B	1487	PHE
1	B	1488	LEU
1	B	1496	TYR
1	B	1500	ARG
1	B	1502	ASP
1	B	1503	LYS
1	B	1507	MET
1	B	1509	TYR

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Mol	Chain	Res	Type
2	Y	134	THR
2	Y	136	LEU
2	Y	138	VAL
2	Y	146	LEU
2	Y	150	ILE
2	Y	184	THR
2	Y	210	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (98) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	77	ASN
1	A	81	ASN
1	A	88	GLN
1	A	110	HIS
1	A	123	ASN
1	A	139	GLN
1	A	226	HIS
1	A	242	ASN
1	A	279	GLN
1	A	298	GLN
1	A	320	ASN
1	A	393	GLN
1	A	423	ASN
1	A	481	HIS
1	A	625	GLN
1	A	656	ASN
1	A	737	GLN
1	A	785	GLN
1	A	787	GLN
1	A	840	GLN
1	A	886	GLN
1	A	894	HIS
1	A	994	GLN
1	A	1002	HIS
1	A	1023	HIS
1	A	1029	ASN
1	A	1030	HIS
1	A	1090	ASN
1	A	1095	GLN
1	A	1096	ASN
1	A	1115	ASN

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Mol	Chain	Res	Type
1	A	1123	GLN
1	A	1140	ASN
1	A	1173	ASN
1	A	1202	HIS
1	A	1221	ASN
1	A	1260	ASN
1	A	1278	GLN
1	A	1306	GLN
1	A	1325	ASN
1	A	1343	ASN
1	A	1366	HIS
1	A	1435	ASN
1	A	1459	HIS
1	A	1463	GLN
1	A	1465	ASN
1	A	1504	GLN
2	X	135	HIS
2	X	192	ASN
1	B	77	ASN
1	B	80	GLN
1	B	88	GLN
1	B	110	HIS
1	B	123	ASN
1	B	139	GLN
1	B	226	HIS
1	B	242	ASN
1	B	257	ASN
1	B	298	GLN
1	B	320	ASN
1	B	381	GLN
1	B	393	GLN
1	B	423	ASN
1	B	481	HIS
1	B	625	GLN
1	B	656	ASN
1	B	737	GLN
1	B	785	GLN
1	B	787	GLN
1	B	840	GLN
1	B	886	GLN
1	B	894	HIS
1	B	994	GLN

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Mol	Chain	Res	Type
1	B	1002	HIS
1	B	1023	HIS
1	B	1029	ASN
1	B	1030	HIS
1	B	1090	ASN
1	B	1096	ASN
1	B	1115	ASN
1	B	1123	GLN
1	B	1140	ASN
1	B	1173	ASN
1	B	1202	HIS
1	B	1221	ASN
1	B	1268	ASN
1	B	1278	GLN
1	B	1306	GLN
1	B	1325	ASN
1	B	1343	ASN
1	B	1366	HIS
1	B	1435	ASN
1	B	1463	GLN
1	B	1465	ASN
1	B	1504	GLN
2	Y	135	HIS
2	Y	176	ASN
2	Y	230	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

4 monosaccharides are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	NAG	C	1	1,3	14,14,15	0.53	0	17,19,21	1.06	1 (5%)
3	NAG	C	2	3	14,14,15	0.48	0	17,19,21	1.07	2 (11%)
3	NAG	D	1	1,3	14,14,15	0.56	0	17,19,21	0.96	0
3	NAG	D	2	3	14,14,15	0.48	0	17,19,21	1.01	2 (11%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAG	C	1	1,3	-	4/6/23/26	0/1/1/1
3	NAG	C	2	3	-	2/6/23/26	0/1/1/1
3	NAG	D	1	1,3	-	4/6/23/26	0/1/1/1
3	NAG	D	2	3	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	2	NAG	C1-O5-C5	2.98	116.23	112.19
3	C	1	NAG	C1-O5-C5	2.98	116.23	112.19
3	D	2	NAG	C1-O5-C5	2.63	115.75	112.19
3	D	2	NAG	O5-C5-C6	2.20	110.65	107.20
3	C	2	NAG	O5-C5-C6	2.07	110.45	107.20

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	D	2	NAG	C8-C7-N2-C2
3	D	2	NAG	O7-C7-N2-C2
3	C	1	NAG	C8-C7-N2-C2
3	C	1	NAG	O7-C7-N2-C2
3	C	2	NAG	C8-C7-N2-C2

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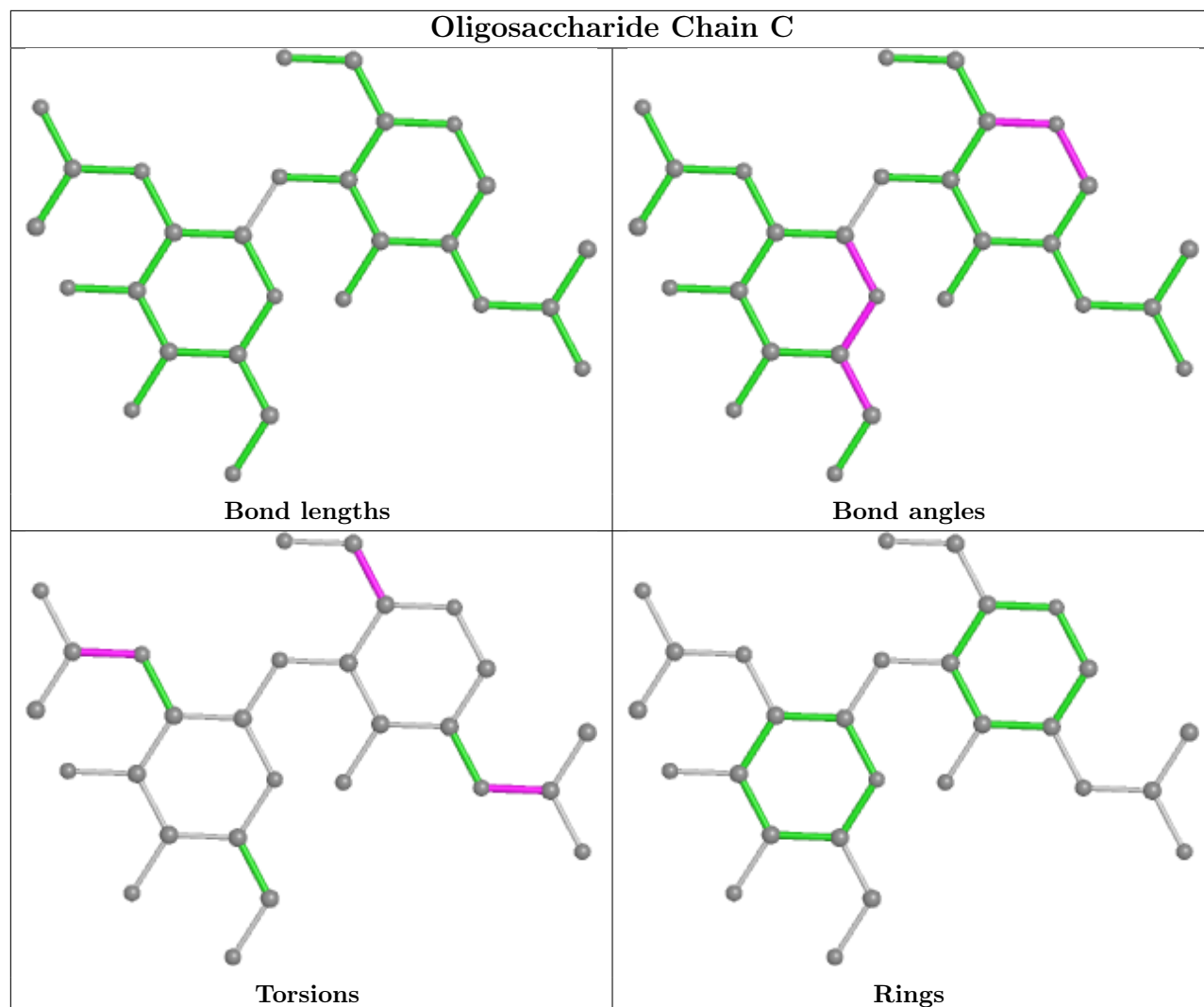
Mol	Chain	Res	Type	Atoms
3	C	2	NAG	O7-C7-N2-C2
3	D	1	NAG	O5-C5-C6-O6
3	D	1	NAG	C8-C7-N2-C2
3	D	1	NAG	C4-C5-C6-O6
3	D	1	NAG	O7-C7-N2-C2
3	C	1	NAG	C4-C5-C6-O6
3	C	1	NAG	O5-C5-C6-O6

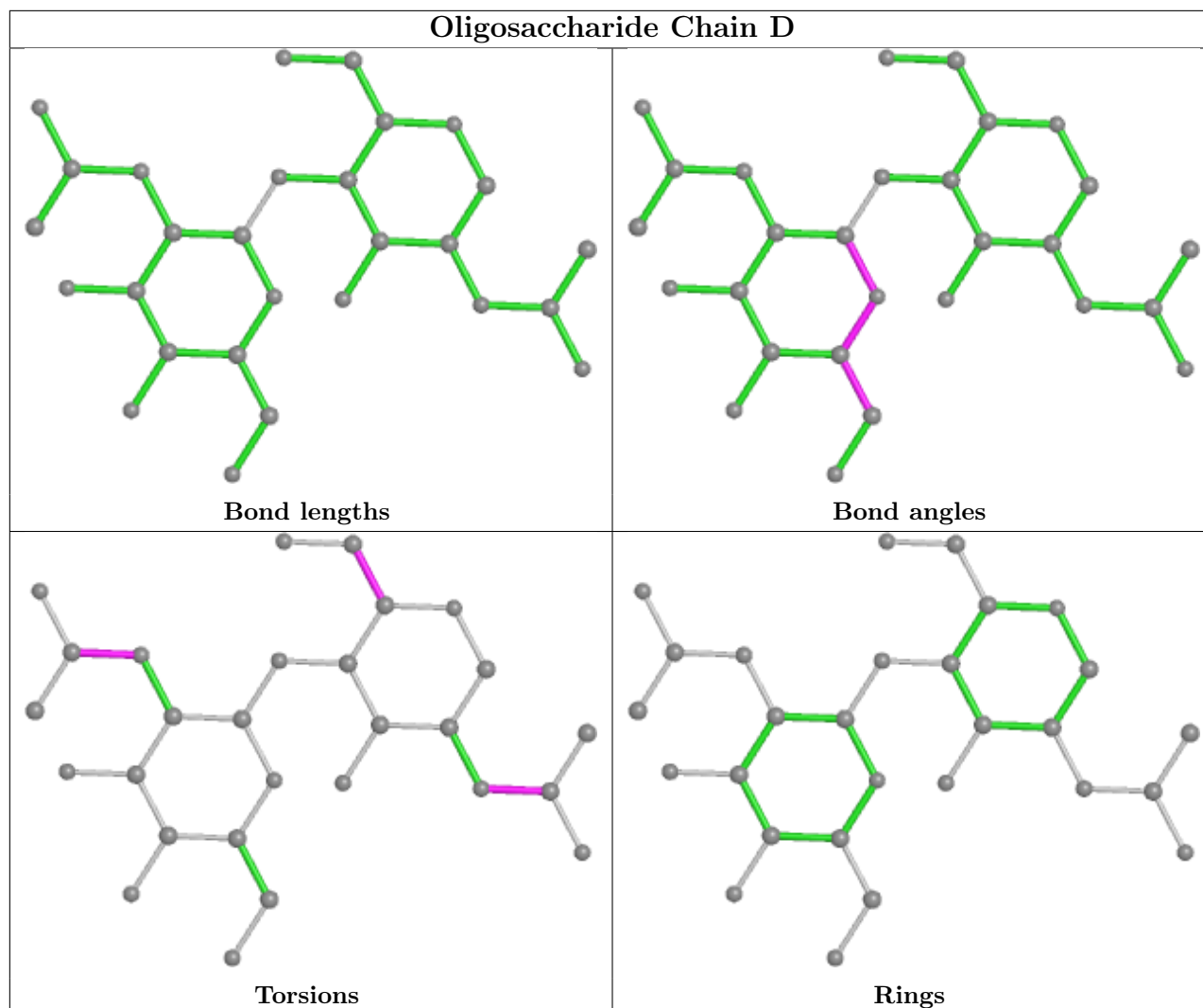
There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	2	NAG	1	0
3	D	1	NAG	3	0
3	C	1	NAG	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.





5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 5 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
5	NAG	A	1680	1	14,14,15	0.65	0	17,19,21	1.00	1 (5%)
5	NAG	B	1679	1	14,14,15	0.70	0	17,19,21	1.10	1 (5%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	NAG	A	1680	1	-	4/6/23/26	0/1/1/1
5	NAG	B	1679	1	-	4/6/23/26	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	1680	NAG	O5-C5-C6	2.89	111.73	107.20
5	B	1679	NAG	O5-C5-C6	2.55	111.21	107.20

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	1680	NAG	C8-C7-N2-C2
5	A	1680	NAG	O7-C7-N2-C2
5	B	1679	NAG	C8-C7-N2-C2
5	B	1679	NAG	O7-C7-N2-C2
5	B	1679	NAG	C1-C2-N2-C7
5	B	1679	NAG	C3-C2-N2-C7
5	A	1680	NAG	C3-C2-N2-C7
5	A	1680	NAG	C1-C2-N2-C7

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1459/1676 (87%)	-0.62	11 (0%) 86 79	81, 190, 311, 455	0
1	B	1459/1676 (87%)	-0.63	10 (0%) 87 82	85, 190, 308, 475	0
2	X	102/103 (99%)	0.04	9 (8%) 10 9	157, 292, 386, 530	0
2	Y	102/103 (99%)	0.02	5 (4%) 29 25	156, 292, 377, 494	0
All	All	3122/3558 (87%)	-0.58	35 (1%) 80 72	81, 194, 328, 530	0

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	671	GLU	4.8
2	Y	193	LEU	4.4
2	X	193	LEU	4.4
1	B	671	GLU	4.0
1	A	670	LYS	3.6
1	B	668	PRO	3.4
2	Y	159	GLU	3.4
1	B	615	GLY	3.4
1	A	672	ILE	3.3
2	X	159	GLU	2.9
1	A	668	PRO	2.8
1	B	670	LYS	2.8
1	A	759	PRO	2.8
2	X	158	GLU	2.7
2	Y	192	ASN	2.7
1	A	883	CYS	2.6
1	A	309	GLU	2.6
2	X	197	GLU	2.5
2	Y	157	LYS	2.5
1	B	309	GLU	2.5
1	A	258	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
2	X	129	SER	2.3
1	A	613	GLN	2.3
2	X	192	ASN	2.3
1	B	47	THR	2.2
1	B	613	GLN	2.2
1	B	672	ILE	2.2
2	X	228	LEU	2.2
2	X	227	THR	2.1
2	Y	158	GLU	2.1
1	A	47	THR	2.1
1	A	615	GLY	2.1
2	X	157	LYS	2.1
1	B	258	LYS	2.1
1	B	759	PRO	2.1

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

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

6.3 Carbohydrates [i](#)

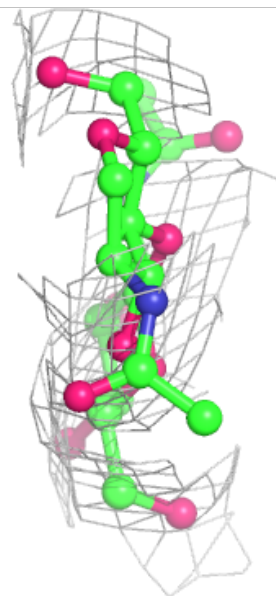
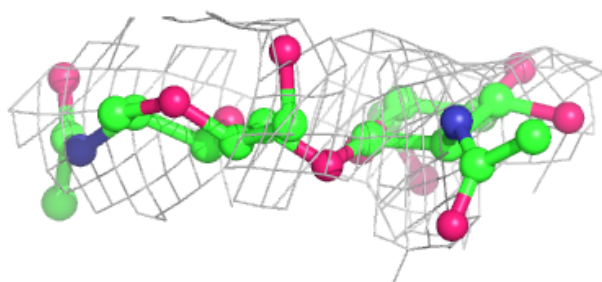
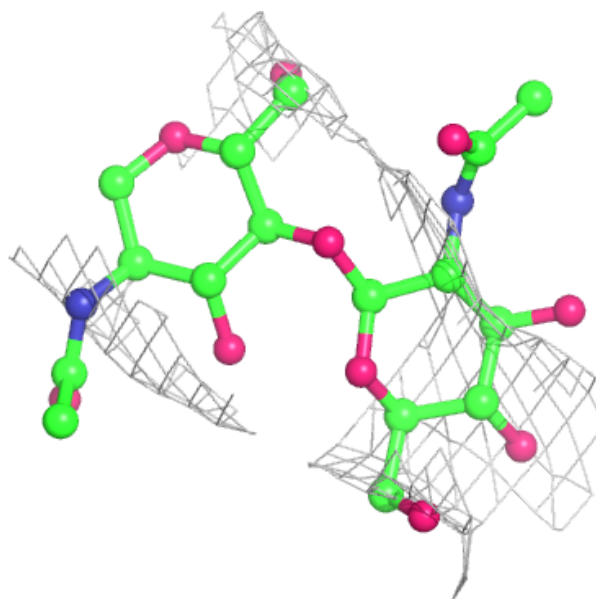
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

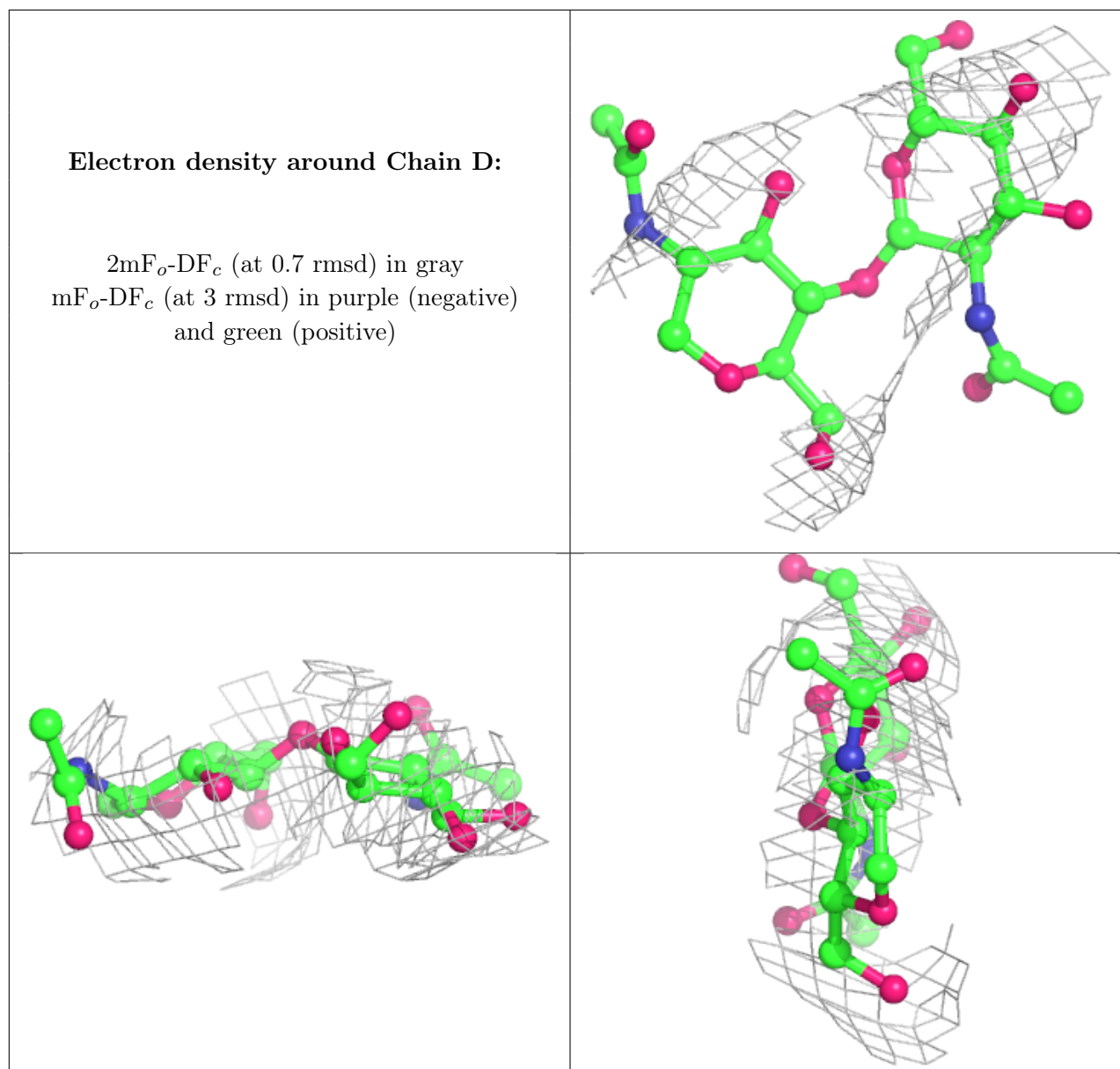
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	NAG	C	2	14/15	0.66	0.46	343,343,343,343	0
3	NAG	D	2	14/15	0.73	0.50	363,363,363,363	0
3	NAG	D	1	14/15	0.79	0.30	280,280,280,280	0
3	NAG	C	1	14/15	0.85	0.28	293,293,293,293	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around Chain C:

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





6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q < 0.9
4	CD	A	1679	1/1	0.22	0.12	402,402,402,402	0
4	CD	B	1678	1/1	0.39	0.11	397,397,397,397	0
5	NAG	A	1680	14/15	0.51	0.36	301,301,301,301	0
5	NAG	B	1679	14/15	0.59	0.35	290,290,290,290	0
4	CD	A	1678	1/1	0.87	0.44	481,481,481,481	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	CD	A	1677	1/1	0.89	0.09	229,229,229,229	1
4	CD	B	1677	1/1	0.90	0.38	466,466,466,466	0

6.5 Other polymers [i](#)

There are no such residues in this entry.