



## Full wwPDB EM Validation Report ⓘ

Dec 15, 2024 – 11:23 PM EST

PDB ID : 1Q55  
EMDB ID : EMD-1052  
Title : W-shaped trans interactions of cadherins model based on fitting C-cadherin (1L3W) to 3D map of desmosomes obtained by electron tomography  
Authors : He, W.; Cowin, P.; Stokes, D.L.  
Deposited on : 2003-08-06  
Resolution : 30.00 Å(reported)  
Based on initial model : 1L3W

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

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>.

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

EMDB validation analysis : 0.0.1.dev113  
Mogul : 2022.3.0, CSD as543be (2022)  
MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : **FAILED**  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.40

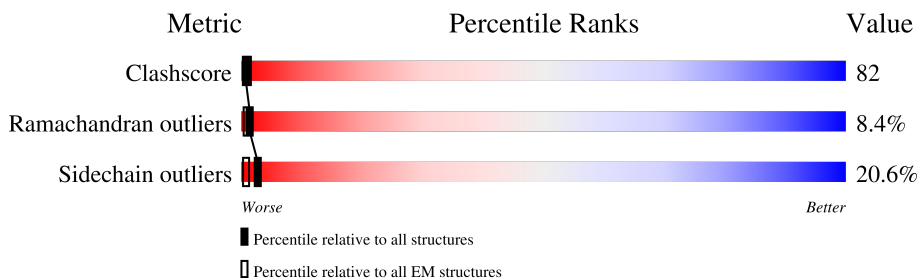
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 30.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ .

Mol	Chain	Length	Quality of chain
1	A	880	16% 30% 11% • 39%
1	B	880	16% 30% 11% • 39%
1	C	880	16% 30% 11% • 39%
1	D	880	17% 30% 11% • 39%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	NAG	A	801	-	-	X	-
2	NAG	A	805	X	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	NAG	A	806	X	-	X	-
2	NAG	A	807	-	-	X	-
2	NAG	A	809	-	-	X	-
2	NAG	A	810	-	-	X	-
2	NAG	A	902	X	-	X	-
2	NAG	A	903	X	-	-	-
2	NAG	A	904	-	-	X	-
2	NAG	B	801	-	-	X	-
2	NAG	B	805	X	-	X	-
2	NAG	B	806	X	-	X	-
2	NAG	B	807	-	-	X	-
2	NAG	B	809	-	-	X	-
2	NAG	B	810	-	-	X	-
2	NAG	B	902	X	-	X	-
2	NAG	B	903	X	-	-	-
2	NAG	B	904	-	-	X	-
2	NAG	C	801	-	-	X	-
2	NAG	C	805	X	-	X	-
2	NAG	C	806	X	-	X	-
2	NAG	C	807	-	-	X	-
2	NAG	C	809	-	-	X	-
2	NAG	C	810	-	-	X	-
2	NAG	C	902	X	-	X	-
2	NAG	C	903	X	-	-	-
2	NAG	C	904	-	-	X	-
2	NAG	D	801	-	-	X	-
2	NAG	D	805	X	-	X	-
2	NAG	D	806	X	-	X	-
2	NAG	D	807	-	-	X	-
2	NAG	D	809	-	-	X	-
2	NAG	D	810	-	-	X	-
2	NAG	D	902	X	-	X	-
2	NAG	D	903	X	-	-	-
2	NAG	D	904	-	-	X	-
3	NDG	A	811	-	-	X	-
3	NDG	B	811	-	-	X	-
3	NDG	C	811	-	-	X	-

## 2 Entry composition [i](#)

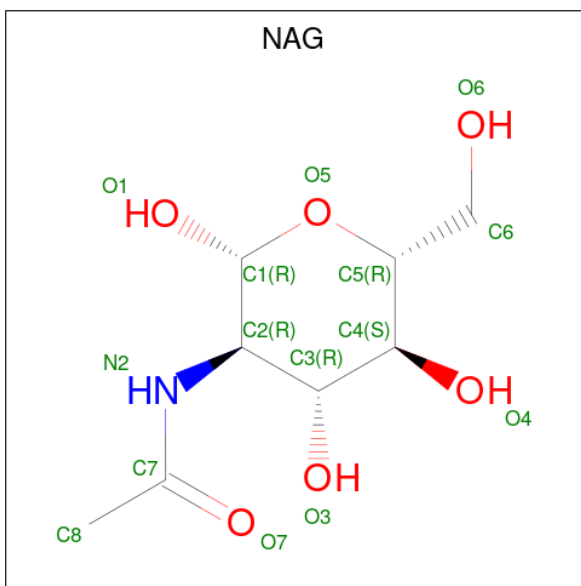
There are 4 unique types of molecules in this entry. The entry contains 17652 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 EP-cadherin.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	540	Total	C	N	O	S	0	0
			4191	2635	695	850	11		
1	B	540	Total	C	N	O	S	0	0
			4191	2635	695	850	11		
1	C	540	Total	C	N	O	S	0	0
			4191	2635	695	850	11		
1	D	540	Total	C	N	O	S	0	0
			4191	2635	695	850	11		

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



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

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

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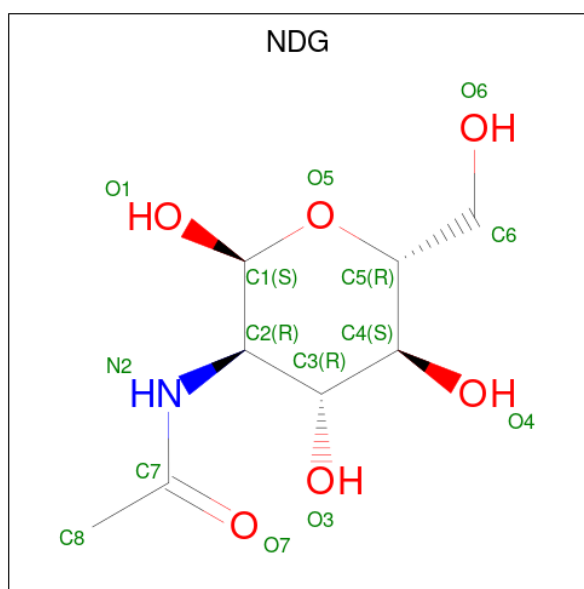
Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
2	B	1	Total 14	C 8	N 1	O 5	0
2	B	1	Total 14	C 8	N 1	O 5	0
2	B	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	C	1	Total 14	C 8	N 1	O 5	0
2	D	1	Total 14	C 8	N 1	O 5	0
2	D	1	Total 14	C 8	N 1	O 5	0
2	D	1	Total 14	C 8	N 1	O 5	0
2	D	1	Total 14	C 8	N 1	O 5	0
2	D	1	Total 14	C 8	N 1	O 5	0

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
2	D	1	Total	C	N	O	0
			14	8	1	5	
2	D	1	Total	C	N	O	0
			14	8	1	5	
2	D	1	Total	C	N	O	0
			14	8	1	5	
2	D	1	Total	C	N	O	0
			14	8	1	5	
2	D	1	Total	C	N	O	0
			14	8	1	5	
2	D	1	Total	C	N	O	0
			14	8	1	5	
2	D	1	Total	C	N	O	0
			14	8	1	5	

- Molecule 3 is 2-acetamido-2-deoxy-alpha-D-glucopyranose (three-letter code: NDG) (formula: C<sub>8</sub>H<sub>15</sub>NO<sub>6</sub>).



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

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Mol	Chain	Residues	Atoms				AltConf
3	B	1	Total	C	N	O	0
			14	8	1	5	
3	C	1	Total	C	N	O	0
			14	8	1	5	
3	C	1	Total	C	N	O	0
			14	8	1	5	
3	D	1	Total	C	N	O	0
			14	8	1	5	
3	D	1	Total	C	N	O	0
			14	8	1	5	

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
4	A	12	Total	Ca	0
			12	12	
4	B	12	Total	Ca	0
			12	12	
4	C	12	Total	Ca	0
			12	12	
4	D	12	Total	Ca	0
			12	12	









ALA	F31	P106	L189	P253	V319	R382	R443	S508	LEU	VAL	LEU
SER	N32	K107	T190	A294	T320	K383	T444	I509	LEU	PRO	PHE
LYS	K33	F108	V191	Q256	V321	N385	M446	V510	PHE	THR	THR
ARG		T109	Q192	Q256	T322	N385	T447	V511	LEU	LEU	LEU
HIS	Y36	Q110	A193	A257	T323	N385	C448	L512	LYS	MET	LEU
ARG	S37	D111	A193	A257	T323	N385	C448	L513	LYS	PRO	ARG
SER	I38	D111	A193	A257	T323	N385	C448	L514	LYS	ALA	ALA
GLY	I39	V112	D195	Y259	E324	V388	Q450	D514	LYS	ALA	ALA
GLU	G40		D196	K280	N327	N391	M451	D515	VAL	PRO	PRO
GLU	Q41	S116	E197	I261	E328	N391	P452	A516	VAL	HIS	HIS
ALA	G42	V117	G198	R262	A329	N393	L457	Q517	VAL	TYR	TYR
HIS	M45	E119	A199	V263	A330	N393	T458	M518	LYS	ARG	ASP
SER	P46		G200	M264	F331	N394	T459	M519	PRO	PRO	TYR
ARG	P47		L201	E265	F332	D395	I459	P520	PRO	ARG	ASN
SER	Q48	V127	S202	G286	V383	R396	S480	Q521	LEU	PRO	TYR
SER	Q48	M128	V203	G287	P394	E397	D461	L522	LEU	SER	LEU
LYS	G49	A129	I208	F269	A335	S398		T523	LEU	ASN	SER
LEU	V50	V130	I209	F269	V386	E399	I464	V524	PRO	PRO	ASP
PRO	R52	S131	I209	N270	S337	Y400	P465	V525	TRP	ASP	ASP
VAL	R52	A132	Q120	I271	R338	V401	P466	M526	GLY	GLU	GLY
LEU	I53	I133	I211	T272	K388	K402	M467		SER	ILE	SER
LEU	I53	D134	T212	T273	D340	M403	T468	V529	ARG	GLY	ARG
THR	E54		D213	D274	V341	M404	Y469	C530	PHE	ASN	PHE
PHE	W55	D137	A214	P275	S342	T405	P470	S531	ARG	PHE	ASN
PRO	E56	M138	E343	E276	S342	T405	Y471	C532	LYS	ILE	ASP
GLU	T57	I139	D216	S277	D344	T407	K472	E533	LYS	ILE	ASP
THR	G58		M217	M278	L345	V408	V473	G534	ALA	GLU	GLU
HIS	W59	L142	I220	Q279	S346	I409	S474		ASP	ASN	ASN
GLY	M60		F221	G280	R347	M410	L475	T537	MET	LEU	LEU
LEU	V62	L146	F221	G280	G348	L411	S476	K538	TYR	ASP	GLY
LYS	T63	I150	D222	L281	E349	V412	H477	C539	GLY	ALA	ALA
ARG	L66	I151	P223	T283	K350	T413	G478	O540	GLY	ALA	ALA
LYS	D67	K152	K224	T284	I351	D414	S479		ASP	ASP	ASP
LYS	R68	Q153	T225	A285	I352	D415	P480		ASP	ASN	ASN
D1	E69	D154	Y226	K286	I352	D416	L481		ASP	PRO	GLU
V2	V75	P155	T227	G287	L354	V417	T482		GLU	THR	GLU
V3	L76	E156	A228	L288		S418	W483		GLY	THR	GLY
I4		E157	L229	D289	D358	V419	K484		GLY	ALA	ALA
P6	A80	P158	V230	E290	P359	G420	A485		PHE	PRO	PRO
I7	E83	I159	P231	E291	D360	T421	E486		ASP	PRO	PRO
K8		P160	E232	L292	R361	G422	L487		ASP	TYR	TYR
E11	S86	N161	N233	R293	Q362	T423	D488		ASP	SER	SER
P16	P87	L162	E234	Y296	Q363	G424	S489		ASP	LEU	SER
F17	V88	F163	I235	V297	I364	T425	K490		ASP	LEU	SER
F18	E89	L164	G236	L286	Q365	L426	G491		ASP	LEU	GLM
K19	E90	T169	F237	L286	K366	I427	T492		ASP	VAL	VAL
V22	P91	I165	E238	Q299	L367	L428	S493		ASP	PHE	PHE
Q23	M92	I175	V239	I300	S368	H429	M494		ASP	ASP	ASP
I24	M92	G176	Q240	T301	Y369	V430	L495		ASP	TYR	TYR
K25	I96	E90	R241	F370	F370	L431	L496		ASP	GLU	GLU
M27	D100	V171	L242	P307	I371	D432	S497		ASP	GLY	GLY
K28	Q101	L174	S243	F306	G372	V433	P498		ASP	SER	SER
D29	Y187	I175	G244	S309	N373	M434	T499		ASP	GLY	GLY
R30	R105	G176	T245	V310	D374	D435	Q500		ASP	PRO	PRO
		E90	T246	P311	P375	M436	O501		ASP	LEU	LEU
		P91	L247	L312	A376	G438	L502		ASP	ALA	ALA
		M92	T248	L312	R377	P438	K503		ASP	ALA	ALA
		M92	M249	S315	W378	V439	K504		ASP	SER	SER
		M92	P250	T316	W378	V439	K504		ASP	ARG	ARG
		M92	G251	A317	L379	P440	G505		ASP	LEU	LEU
		M92	T252	T318	T380	S441	D506		ASP	LEU	LEU
		M92			P442		Y507		ASP	VAL	VAL

## 4 Experimental information

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of tilted images used	Not provided	
Resolution determination method	Not provided	
CTF correction method	no CTF correction. Imaging at underfocus 0.4 micron with CM200FEG microscope at 50,000 magnification	Depositor
Microscope	FEI/PHILIPS CM200FEG/UT	Depositor
Voltage (kV)	200	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	1200	Depositor
Minimum defocus (nm)	300	Depositor
Maximum defocus (nm)	500	Depositor
Magnification	68276	Depositor
Image detector	GENERIC GATAN	Depositor

## 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, CA, NDG

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	0.70	8/4276 (0.2%)	1.39	78/5839 (1.3%)
1	B	0.70	8/4276 (0.2%)	1.39	78/5839 (1.3%)
1	C	0.70	8/4276 (0.2%)	1.39	78/5839 (1.3%)
1	D	0.70	8/4276 (0.2%)	1.39	78/5839 (1.3%)
All	All	0.70	32/17104 (0.2%)	1.39	312/23356 (1.3%)

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	4
1	B	0	4
1	C	0	4
1	D	0	4
All	All	0	16

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	335	ALA	CA-CB	-8.36	1.34	1.52
1	C	335	ALA	CA-CB	-8.34	1.34	1.52
1	A	335	ALA	CA-CB	-8.33	1.34	1.52
1	D	335	ALA	CA-CB	-8.33	1.34	1.52
1	D	539	CYS	CB-SG	8.16	1.96	1.82
1	B	539	CYS	CB-SG	8.16	1.96	1.82
1	A	539	CYS	CB-SG	8.14	1.96	1.82
1	C	539	CYS	CB-SG	8.14	1.96	1.82
1	C	223	PRO	CG-CD	7.02	1.73	1.50
1	D	223	PRO	CG-CD	7.02	1.73	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	223	PRO	CG-CD	6.99	1.73	1.50
1	B	223	PRO	CG-CD	6.99	1.73	1.50
1	D	523	THR	N-CA	-6.25	1.33	1.46
1	C	523	THR	N-CA	-6.24	1.33	1.46
1	A	523	THR	N-CA	-6.23	1.33	1.46
1	B	523	THR	N-CA	-6.21	1.33	1.46
1	A	522	LEU	N-CA	-5.99	1.34	1.46
1	C	522	LEU	N-CA	-5.99	1.34	1.46
1	D	522	LEU	N-CA	-5.98	1.34	1.46
1	C	18	PRO	N-CD	5.97	1.56	1.47
1	B	522	LEU	N-CA	-5.96	1.34	1.46
1	D	18	PRO	N-CD	5.93	1.56	1.47
1	B	18	PRO	N-CD	5.91	1.56	1.47
1	A	18	PRO	N-CD	5.88	1.56	1.47
1	A	530	CYS	CB-SG	5.53	1.91	1.82
1	B	530	CYS	CB-SG	5.52	1.91	1.82
1	C	530	CYS	CB-SG	5.49	1.91	1.82
1	D	530	CYS	CB-SG	5.45	1.91	1.82
1	B	499	THR	CA-CB	5.05	1.66	1.53
1	A	499	THR	CA-CB	5.04	1.66	1.53
1	C	499	THR	CA-CB	5.03	1.66	1.53
1	D	499	THR	CA-CB	5.02	1.66	1.53

All (312) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	520	PRO	CA-C-N	-13.29	87.96	117.20
1	A	520	PRO	CA-C-N	-13.29	87.96	117.20
1	D	520	PRO	CA-C-N	-13.27	88.01	117.20
1	C	520	PRO	CA-C-N	-13.27	88.02	117.20
1	C	235	ILE	N-CA-C	12.74	145.40	111.00
1	C	290	PHE	N-CA-C	12.74	145.40	111.00
1	B	235	ILE	N-CA-C	12.74	145.39	111.00
1	A	290	PHE	N-CA-C	12.73	145.38	111.00
1	D	290	PHE	N-CA-C	12.73	145.38	111.00
1	A	235	ILE	N-CA-C	12.72	145.34	111.00
1	B	290	PHE	N-CA-C	12.72	145.35	111.00
1	D	235	ILE	N-CA-C	12.71	145.32	111.00
1	B	374	ASP	N-CA-C	11.62	142.38	111.00
1	D	374	ASP	N-CA-C	11.62	142.38	111.00
1	A	374	ASP	N-CA-C	11.60	142.32	111.00
1	C	374	ASP	N-CA-C	11.59	142.29	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	17	PHE	C-N-CD	-11.53	95.24	120.60
1	C	17	PHE	C-N-CD	-11.53	95.24	120.60
1	D	17	PHE	C-N-CD	-11.53	95.24	120.60
1	B	17	PHE	C-N-CD	-11.52	95.26	120.60
1	C	398	SER	N-CA-C	11.38	141.74	111.00
1	B	398	SER	N-CA-C	11.37	141.69	111.00
1	D	398	SER	N-CA-C	11.37	141.69	111.00
1	A	398	SER	N-CA-C	11.36	141.67	111.00
1	B	465	PRO	C-N-CD	-11.02	96.35	120.60
1	A	465	PRO	C-N-CD	-11.02	96.35	120.60
1	D	465	PRO	C-N-CD	-11.02	96.36	120.60
1	C	465	PRO	C-N-CD	-11.02	96.37	120.60
1	B	222	ASP	CB-CG-OD2	10.09	127.39	118.30
1	A	222	ASP	CB-CG-OD2	10.09	127.38	118.30
1	C	222	ASP	CB-CG-OD2	10.05	127.34	118.30
1	D	222	ASP	CB-CG-OD2	10.00	127.30	118.30
1	C	236	GLY	N-CA-C	-9.99	88.12	113.10
1	A	236	GLY	N-CA-C	-9.99	88.13	113.10
1	B	236	GLY	N-CA-C	-9.97	88.17	113.10
1	D	236	GLY	N-CA-C	-9.97	88.17	113.10
1	D	230	VAL	C-N-CD	-9.96	98.69	120.60
1	A	230	VAL	C-N-CD	-9.95	98.71	120.60
1	C	230	VAL	C-N-CD	-9.94	98.72	120.60
1	B	230	VAL	C-N-CD	-9.94	98.73	120.60
1	D	374	ASP	CB-CA-C	-9.68	91.05	110.40
1	C	376	ALA	N-CA-C	9.67	137.12	111.00
1	B	376	ALA	N-CA-C	9.67	137.11	111.00
1	B	374	ASP	CB-CA-C	-9.66	91.07	110.40
1	D	376	ALA	N-CA-C	9.66	137.09	111.00
1	C	374	ASP	CB-CA-C	-9.66	91.08	110.40
1	A	374	ASP	CB-CA-C	-9.66	91.08	110.40
1	A	376	ALA	N-CA-C	9.63	137.01	111.00
1	D	522	LEU	CA-CB-CG	-9.39	93.71	115.30
1	C	522	LEU	CA-CB-CG	-9.37	93.75	115.30
1	B	522	LEU	CA-CB-CG	-9.37	93.76	115.30
1	A	522	LEU	CA-CB-CG	-9.36	93.78	115.30
1	D	520	PRO	N-CA-C	9.31	136.32	112.10
1	B	223	PRO	N-CA-C	-9.30	87.91	112.10
1	D	223	PRO	N-CA-C	-9.30	87.91	112.10
1	A	221	PHE	C-N-CA	-9.30	98.44	121.70
1	B	221	PHE	C-N-CA	-9.30	98.45	121.70
1	C	223	PRO	N-CA-C	-9.30	87.91	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	520	PRO	N-CA-C	9.30	136.27	112.10
1	C	221	PHE	C-N-CA	-9.30	98.46	121.70
1	C	481	LEU	N-CA-C	-9.29	85.91	111.00
1	B	481	LEU	N-CA-C	-9.29	85.92	111.00
1	B	520	PRO	N-CA-C	9.29	136.25	112.10
1	D	481	LEU	N-CA-C	-9.29	85.92	111.00
1	A	223	PRO	N-CA-C	-9.28	87.96	112.10
1	A	481	LEU	N-CA-C	-9.28	85.94	111.00
1	C	520	PRO	N-CA-C	9.28	136.23	112.10
1	D	221	PHE	C-N-CA	-9.28	98.49	121.70
1	C	481	LEU	CA-CB-CG	-8.77	95.12	115.30
1	B	481	LEU	CA-CB-CG	-8.76	95.16	115.30
1	D	481	LEU	CA-CB-CG	-8.75	95.17	115.30
1	A	481	LEU	CA-CB-CG	-8.73	95.21	115.30
1	B	289	ASP	C-N-CA	-8.43	100.62	121.70
1	A	289	ASP	C-N-CA	-8.42	100.65	121.70
1	C	289	ASP	C-N-CA	-8.42	100.66	121.70
1	D	289	ASP	C-N-CA	-8.41	100.68	121.70
1	A	516	ALA	N-CA-C	-8.36	88.42	111.00
1	D	516	ALA	N-CA-C	-8.36	88.44	111.00
1	B	516	ALA	N-CA-C	-8.35	88.45	111.00
1	C	516	ALA	N-CA-C	-8.35	88.47	111.00
1	D	222	ASP	C-N-CD	-8.21	102.54	120.60
1	C	222	ASP	C-N-CD	-8.21	102.55	120.60
1	B	222	ASP	C-N-CD	-8.20	102.56	120.60
1	A	222	ASP	C-N-CD	-8.20	102.57	120.60
1	A	290	PHE	CA-C-N	-8.19	99.18	117.20
1	B	290	PHE	CA-C-N	-8.19	99.19	117.20
1	C	290	PHE	CA-C-N	-8.18	99.21	117.20
1	D	290	PHE	CA-C-N	-8.17	99.23	117.20
1	A	46	PRO	C-N-CD	-8.03	102.93	120.60
1	C	46	PRO	C-N-CD	-8.03	102.94	120.60
1	D	46	PRO	C-N-CD	-8.03	102.94	120.60
1	B	46	PRO	C-N-CD	-8.01	102.97	120.60
1	A	233	ASN	N-CA-C	7.87	132.26	111.00
1	D	233	ASN	N-CA-C	7.87	132.24	111.00
1	B	233	ASN	N-CA-C	7.86	132.23	111.00
1	C	233	ASN	N-CA-C	7.86	132.23	111.00
1	A	336	VAL	N-CA-C	7.82	132.12	111.00
1	B	336	VAL	N-CA-C	7.81	132.09	111.00
1	B	522	LEU	C-N-CA	-7.81	102.18	121.70
1	C	522	LEU	C-N-CA	-7.80	102.19	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	336	VAL	N-CA-C	7.80	132.07	111.00
1	A	522	LEU	C-N-CA	-7.80	102.19	121.70
1	D	522	LEU	C-N-CA	-7.80	102.19	121.70
1	C	336	VAL	N-CA-C	7.80	132.05	111.00
1	D	362	GLN	N-CA-C	-7.72	90.15	111.00
1	C	362	GLN	N-CA-C	-7.72	90.17	111.00
1	B	362	GLN	N-CA-C	-7.71	90.17	111.00
1	A	362	GLN	N-CA-C	-7.70	90.21	111.00
1	C	234	GLU	N-CA-C	-7.59	90.51	111.00
1	A	234	GLU	N-CA-C	-7.58	90.52	111.00
1	B	234	GLU	N-CA-C	-7.58	90.52	111.00
1	D	234	GLU	N-CA-C	-7.58	90.53	111.00
1	D	234	GLU	C-N-CA	7.43	140.27	121.70
1	A	234	GLU	C-N-CA	7.42	140.26	121.70
1	C	234	GLU	C-N-CA	7.42	140.25	121.70
1	B	234	GLU	C-N-CA	7.39	140.17	121.70
1	A	521	GLN	C-N-CA	-7.37	103.27	121.70
1	B	521	GLN	C-N-CA	-7.37	103.27	121.70
1	D	521	GLN	C-N-CA	-7.37	103.28	121.70
1	C	521	GLN	C-N-CA	-7.35	103.33	121.70
1	A	277	SER	N-CA-C	-7.21	91.54	111.00
1	B	277	SER	N-CA-C	-7.19	91.58	111.00
1	D	277	SER	N-CA-C	-7.19	91.58	111.00
1	C	277	SER	N-CA-C	-7.19	91.58	111.00
1	A	337	SER	N-CA-C	-7.17	91.64	111.00
1	C	337	SER	N-CA-C	-7.17	91.65	111.00
1	B	337	SER	N-CA-C	-7.16	91.66	111.00
1	D	337	SER	N-CA-C	-7.16	91.66	111.00
1	C	503	LYS	N-CA-C	7.02	129.94	111.00
1	A	503	LYS	N-CA-C	7.01	129.94	111.00
1	B	503	LYS	N-CA-C	7.01	129.93	111.00
1	D	503	LYS	N-CA-C	7.00	129.90	111.00
1	D	523	THR	N-CA-CB	-6.95	97.10	110.30
1	A	523	THR	N-CA-CB	-6.94	97.12	110.30
1	C	523	THR	N-CA-CB	-6.94	97.12	110.30
1	B	523	THR	N-CA-CB	-6.93	97.12	110.30
1	D	492	THR	N-CA-C	6.80	129.35	111.00
1	A	492	THR	N-CA-C	6.78	129.29	111.00
1	C	492	THR	N-CA-C	6.77	129.29	111.00
1	B	492	THR	N-CA-C	6.76	129.27	111.00
1	B	448	CYS	CA-CB-SG	-6.70	101.95	114.00
1	A	448	CYS	CA-CB-SG	-6.69	101.95	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	448	CYS	CA-CB-SG	-6.69	101.96	114.00
1	D	448	CYS	CA-CB-SG	-6.68	101.98	114.00
1	D	476	SER	N-CA-C	6.58	128.78	111.00
1	A	398	SER	C-N-CA	-6.58	105.25	121.70
1	C	476	SER	N-CA-C	6.58	128.76	111.00
1	B	476	SER	N-CA-C	6.57	128.74	111.00
1	C	398	SER	C-N-CA	-6.57	105.28	121.70
1	D	398	SER	C-N-CA	-6.57	105.28	121.70
1	A	476	SER	N-CA-C	6.56	128.72	111.00
1	B	398	SER	C-N-CA	-6.56	105.29	121.70
1	C	491	GLY	N-CA-C	6.54	129.45	113.10
1	B	491	GLY	N-CA-C	6.54	129.44	113.10
1	D	491	GLY	N-CA-C	6.53	129.42	113.10
1	A	491	GLY	N-CA-C	6.52	129.41	113.10
1	B	525	VAL	N-CA-C	-6.51	93.43	111.00
1	D	525	VAL	N-CA-C	-6.50	93.44	111.00
1	A	525	VAL	N-CA-C	-6.50	93.45	111.00
1	C	525	VAL	N-CA-C	-6.50	93.46	111.00
1	B	335	ALA	N-CA-C	-6.33	93.90	111.00
1	D	335	ALA	N-CA-C	-6.33	93.91	111.00
1	A	335	ALA	N-CA-C	-6.32	93.94	111.00
1	C	532	CYS	N-CA-C	6.32	128.05	111.00
1	A	532	CYS	N-CA-C	6.31	128.03	111.00
1	B	532	CYS	N-CA-C	6.31	128.03	111.00
1	C	335	ALA	N-CA-C	-6.31	93.97	111.00
1	D	532	CYS	N-CA-C	6.29	127.98	111.00
1	B	234	GLU	CA-C-N	-6.29	103.37	117.20
1	D	234	GLU	CA-C-N	-6.28	103.39	117.20
1	A	234	GLU	CA-C-N	-6.25	103.44	117.20
1	C	234	GLU	CA-C-N	-6.25	103.44	117.20
1	A	235	ILE	CA-C-N	-6.16	103.88	116.20
1	D	222	ASP	N-CA-C	6.16	127.63	111.00
1	B	222	ASP	N-CA-C	6.16	127.62	111.00
1	C	222	ASP	N-CA-C	6.15	127.61	111.00
1	A	222	ASP	N-CA-C	6.15	127.61	111.00
1	A	397	GLU	C-N-CA	-6.14	106.36	121.70
1	D	235	ILE	CA-C-N	-6.14	103.93	116.20
1	B	235	ILE	CA-C-N	-6.13	103.93	116.20
1	D	397	GLU	C-N-CA	-6.13	106.38	121.70
1	C	235	ILE	CA-C-N	-6.12	103.96	116.20
1	B	397	GLU	C-N-CA	-6.12	106.41	121.70
1	C	397	GLU	C-N-CA	-6.11	106.43	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	18	PRO	CA-N-CD	-6.10	102.96	111.50
1	A	18	PRO	CA-N-CD	-6.10	102.96	111.50
1	B	503	LYS	CB-CA-C	-6.10	98.20	110.40
1	A	503	LYS	CB-CA-C	-6.10	98.21	110.40
1	B	18	PRO	CA-N-CD	-6.09	102.98	111.50
1	C	503	LYS	CB-CA-C	-6.08	98.24	110.40
1	D	503	LYS	CB-CA-C	-6.08	98.24	110.40
1	D	18	PRO	CA-N-CD	-6.07	103.00	111.50
1	C	502	LEU	N-CA-C	6.05	127.35	111.00
1	D	502	LEU	N-CA-C	6.05	127.35	111.00
1	B	502	LEU	N-CA-C	6.05	127.33	111.00
1	A	502	LEU	N-CA-C	6.03	127.29	111.00
1	C	2	TRP	N-CA-C	-6.02	94.74	111.00
1	A	2	TRP	N-CA-C	-6.02	94.74	111.00
1	B	2	TRP	N-CA-C	-6.01	94.76	111.00
1	D	2	TRP	N-CA-C	-6.01	94.77	111.00
1	A	374	ASP	C-N-CD	5.98	140.95	128.40
1	B	374	ASP	C-N-CD	5.97	140.94	128.40
1	B	222	ASP	N-CA-CB	5.96	121.33	110.60
1	D	222	ASP	N-CA-CB	5.96	121.33	110.60
1	C	374	ASP	C-N-CD	5.96	140.91	128.40
1	D	374	ASP	C-N-CD	5.96	140.91	128.40
1	A	222	ASP	N-CA-CB	5.95	121.31	110.60
1	C	222	ASP	N-CA-CB	5.94	121.30	110.60
1	A	364	ILE	N-CA-C	-5.92	95.01	111.00
1	C	364	ILE	N-CA-C	-5.92	95.03	111.00
1	B	364	ILE	N-CA-C	-5.90	95.06	111.00
1	D	364	ILE	N-CA-C	-5.90	95.06	111.00
1	A	382	ASN	N-CA-C	-5.83	95.26	111.00
1	D	382	ASN	N-CA-C	-5.83	95.26	111.00
1	A	376	ALA	CA-C-N	-5.82	104.39	117.20
1	C	382	ASN	N-CA-C	-5.82	95.29	111.00
1	B	382	ASN	N-CA-C	-5.82	95.29	111.00
1	C	376	ALA	CA-C-N	-5.81	104.42	117.20
1	B	376	ALA	CA-C-N	-5.81	104.43	117.20
1	D	376	ALA	CA-C-N	-5.79	104.45	117.20
1	B	471	TYR	N-CA-C	5.74	126.50	111.00
1	C	471	TYR	N-CA-C	5.73	126.47	111.00
1	D	471	TYR	N-CA-C	5.72	126.45	111.00
1	A	471	TYR	N-CA-C	5.71	126.42	111.00
1	A	481	LEU	CA-C-N	-5.70	104.65	117.20
1	C	481	LEU	CA-C-N	-5.69	104.69	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	481	LEU	CA-C-N	-5.68	104.70	117.20
1	D	481	LEU	CA-C-N	-5.68	104.70	117.20
1	A	374	ASP	C-N-CA	-5.67	98.17	122.00
1	B	374	ASP	C-N-CA	-5.67	98.19	122.00
1	C	374	ASP	C-N-CA	-5.66	98.24	122.00
1	D	374	ASP	C-N-CA	-5.66	98.25	122.00
1	C	403	ASN	N-CA-C	-5.64	95.78	111.00
1	D	403	ASN	N-CA-C	-5.63	95.79	111.00
1	A	403	ASN	N-CA-C	-5.63	95.79	111.00
1	B	403	ASN	N-CA-C	-5.63	95.80	111.00
1	D	221	PHE	CA-C-N	5.58	129.48	117.20
1	C	221	PHE	CA-C-N	5.57	129.46	117.20
1	A	505	GLY	N-CA-C	5.57	127.01	113.10
1	B	221	PHE	CA-C-N	5.57	129.44	117.20
1	B	505	GLY	N-CA-C	5.57	127.01	113.10
1	D	505	GLY	N-CA-C	5.57	127.01	113.10
1	A	221	PHE	CA-C-N	5.55	129.41	117.20
1	C	505	GLY	N-CA-C	5.55	126.98	113.10
1	C	502	LEU	CB-CA-C	-5.54	99.68	110.20
1	D	502	LEU	CB-CA-C	-5.54	99.68	110.20
1	B	502	LEU	CB-CA-C	-5.53	99.70	110.20
1	A	502	LEU	CB-CA-C	-5.51	99.72	110.20
1	D	157	GLU	C-N-CD	-5.49	108.53	120.60
1	C	157	GLU	C-N-CD	-5.47	108.56	120.60
1	B	157	GLU	C-N-CD	-5.46	108.58	120.60
1	A	157	GLU	C-N-CD	-5.45	108.61	120.60
1	C	519	ASN	N-CA-C	5.35	125.44	111.00
1	B	519	ASN	N-CA-C	5.35	125.43	111.00
1	D	519	ASN	N-CA-C	5.35	125.44	111.00
1	A	519	ASN	N-CA-C	5.34	125.41	111.00
1	B	405	THR	N-CA-C	5.32	125.38	111.00
1	A	405	THR	N-CA-C	5.31	125.34	111.00
1	C	405	THR	N-CA-C	5.31	125.34	111.00
1	D	405	THR	N-CA-C	5.31	125.33	111.00
1	C	367	LEU	CA-CB-CG	-5.30	103.10	115.30
1	B	367	LEU	CA-CB-CG	-5.30	103.12	115.30
1	A	367	LEU	CA-CB-CG	-5.29	103.13	115.30
1	D	367	LEU	CA-CB-CG	-5.29	103.14	115.30
1	B	290	PHE	O-C-N	5.22	131.06	122.70
1	A	521	GLN	N-CA-C	-5.21	96.92	111.00
1	D	521	GLN	N-CA-C	-5.21	96.94	111.00
1	C	521	GLN	N-CA-C	-5.20	96.95	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	521	GLN	N-CA-C	-5.20	96.96	111.00
1	A	290	PHE	O-C-N	5.18	130.99	122.70
1	C	290	PHE	O-C-N	5.18	131.00	122.70
1	D	520	PRO	C-N-CA	5.17	134.63	121.70
1	D	290	PHE	O-C-N	5.17	130.97	122.70
1	C	520	PRO	C-N-CA	5.17	134.62	121.70
1	D	532	CYS	N-CA-CB	-5.17	101.30	110.60
1	B	532	CYS	N-CA-CB	-5.16	101.31	110.60
1	C	532	CYS	N-CA-CB	-5.16	101.32	110.60
1	A	520	PRO	C-N-CA	5.15	134.58	121.70
1	B	520	PRO	C-N-CA	5.14	134.55	121.70
1	A	532	CYS	N-CA-CB	-5.14	101.35	110.60
1	A	18	PRO	CA-CB-CG	-5.14	94.24	104.00
1	B	522	LEU	N-CA-C	-5.13	97.15	111.00
1	C	18	PRO	CA-CB-CG	-5.13	94.26	104.00
1	D	18	PRO	CA-CB-CG	-5.12	94.27	104.00
1	C	522	LEU	N-CA-C	-5.12	97.18	111.00
1	D	522	LEU	N-CA-C	-5.12	97.18	111.00
1	B	18	PRO	CA-CB-CG	-5.12	94.28	104.00
1	A	339	VAL	N-CA-C	5.11	124.80	111.00
1	B	339	VAL	N-CA-C	5.11	124.80	111.00
1	C	339	VAL	N-CA-C	5.11	124.79	111.00
1	A	522	LEU	N-CA-C	-5.10	97.24	111.00
1	D	339	VAL	N-CA-C	5.10	124.76	111.00
1	B	16	PRO	C-N-CA	-5.08	109.01	121.70
1	D	16	PRO	C-N-CA	-5.07	109.02	121.70
1	A	16	PRO	C-N-CA	-5.07	109.03	121.70
1	C	16	PRO	C-N-CA	-5.07	109.02	121.70
1	A	332	PHE	N-CA-C	-5.05	97.37	111.00
1	C	332	PHE	N-CA-C	-5.03	97.41	111.00
1	C	539	CYS	N-CA-C	5.03	124.59	111.00
1	D	332	PHE	N-CA-C	-5.03	97.42	111.00
1	D	470	PRO	N-CA-C	5.03	125.18	112.10
1	B	234	GLU	O-C-N	5.03	130.75	122.70
1	A	470	PRO	N-CA-C	5.02	125.16	112.10
1	B	332	PHE	N-CA-C	-5.02	97.44	111.00
1	B	470	PRO	N-CA-C	5.02	125.15	112.10
1	A	539	CYS	N-CA-C	5.01	124.54	111.00
1	C	221	PHE	N-CA-C	5.01	124.54	111.00
1	C	470	PRO	N-CA-C	5.01	125.12	112.10
1	D	221	PHE	N-CA-C	5.01	124.53	111.00
1	A	221	PHE	N-CA-C	5.01	124.52	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	221	PHE	N-CA-C	5.00	124.52	111.00
1	D	539	CYS	N-CA-C	5.00	124.51	111.00

There are no chirality outliers.

All (16) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	17	PHE	Sidechain
1	A	18	PRO	Mainchain
1	A	222	ASP	Mainchain
1	A	520	PRO	Mainchain
1	B	17	PHE	Sidechain
1	B	18	PRO	Mainchain
1	B	222	ASP	Mainchain
1	B	520	PRO	Mainchain
1	C	17	PHE	Sidechain
1	C	18	PRO	Mainchain
1	C	222	ASP	Mainchain
1	C	520	PRO	Mainchain
1	D	17	PHE	Sidechain
1	D	18	PRO	Mainchain
1	D	222	ASP	Mainchain
1	D	520	PRO	Mainchain

## 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	4191	0	4086	759	0
1	B	4191	0	4089	754	0
1	C	4191	0	4087	719	0
1	D	4191	0	4086	713	0
2	A	182	0	169	93	0
2	B	182	0	169	92	0
2	C	182	0	169	93	0
2	D	182	0	169	93	0
3	A	28	0	24	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	28	0	24	9	0
3	C	28	0	24	9	0
3	D	28	0	24	8	0
4	A	12	0	0	0	0
4	B	12	0	0	0	0
4	C	12	0	0	0	0
4	D	12	0	0	0	0
All	All	17652	0	17120	2844	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 82.

All (2844) 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:B:464:ILE:HD12	1:B:465:PRO:CD	1.30	1.61
1:D:464:ILE:HD12	1:D:465:PRO:CD	1.30	1.59
1:A:464:ILE:HD12	1:A:465:PRO:CD	1.30	1.56
1:C:464:ILE:HD12	1:C:465:PRO:CD	1.30	1.56
1:C:24:ILE:HG21	1:D:2:TRP:CA	1.42	1.48
1:D:464:ILE:CD1	1:D:465:PRO:HD2	1.50	1.42
1:C:464:ILE:CD1	1:C:465:PRO:HD2	1.50	1.42
1:A:464:ILE:CD1	1:A:465:PRO:HD2	1.50	1.40
1:B:464:ILE:CD1	1:B:465:PRO:HD2	1.50	1.39
1:A:1:ASP:O	1:B:94:ILE:CA	1.71	1.35
1:C:27:ASN:HD21	1:D:90:GLU:CB	1.39	1.32
1:C:1:ASP:OD1	1:D:26:SER:CA	1.80	1.30
1:A:93:GLU:O	1:B:2:TRP:HB3	1.12	1.29
1:C:24:ILE:CG2	1:D:2:TRP:HA	1.54	1.28
1:C:22:VAL:CG2	1:D:5:PRO:HG3	1.63	1.27
1:C:92:MET:HE1	1:D:2:TRP:CB	1.67	1.24
1:C:24:ILE:CG2	1:D:2:TRP:CA	2.00	1.23
1:C:27:ASN:ND2	1:D:90:GLU:HB3	1.53	1.23
1:C:27:ASN:ND2	1:D:90:GLU:CB	2.02	1.22
1:C:1:ASP:OD1	1:D:26:SER:HA	1.04	1.21
1:D:540:GLN:O	1:D:540:GLN:CD	1.79	1.21
1:A:540:GLN:O	1:A:540:GLN:CD	1.79	1.20
1:B:8:LYS:H	1:B:8:LYS:HD2	1.04	1.20
1:B:540:GLN:O	1:B:540:GLN:CD	1.79	1.20
1:A:93:GLU:C	1:B:2:TRP:HB3	1.61	1.20
1:C:92:MET:CE	1:D:2:TRP:HB2	1.70	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:540:GLN:O	1:C:540:GLN:CD	1.79	1.19
1:C:27:ASN:CG	1:D:90:GLU:HB3	1.61	1.19
1:A:2:TRP:HD1	1:B:93:GLU:CD	1.46	1.18
1:C:450:GLN:HG2	1:C:532:CYS:O	1.43	1.18
1:A:2:TRP:CD1	1:B:93:GLU:OE1	1.97	1.18
1:C:482:THR:HG23	1:C:499:THR:CG2	1.75	1.17
1:B:234:GLU:H	1:B:235:ILE:HG23	1.08	1.17
1:A:5:PRO:CA	1:B:5:PRO:HG3	1.74	1.16
1:A:93:GLU:O	1:B:2:TRP:CB	1.94	1.16
1:A:234:GLU:H	1:A:235:ILE:HG23	1.08	1.16
1:A:482:THR:HG23	1:A:499:THR:CG2	1.75	1.16
1:C:8:LYS:H	1:C:8:LYS:HD2	1.04	1.16
1:D:469:TYR:CG	1:D:470:PRO:HD2	1.81	1.16
1:A:469:TYR:CG	1:A:470:PRO:HD2	1.81	1.15
1:B:423:THR:HB	2:B:810:NAG:C7	1.76	1.15
1:B:469:TYR:CG	1:B:470:PRO:HD2	1.80	1.15
1:A:423:THR:HB	2:A:810:NAG:C7	1.76	1.15
1:D:482:THR:HG23	1:D:499:THR:CG2	1.75	1.15
1:B:450:GLN:HG2	1:B:532:CYS:O	1.43	1.15
1:A:450:GLN:HG2	1:A:532:CYS:O	1.44	1.15
1:C:27:ASN:ND2	1:D:90:GLU:CG	2.10	1.15
1:C:423:THR:HB	2:C:810:NAG:C7	1.76	1.15
1:D:423:THR:HB	2:D:810:NAG:C7	1.76	1.15
1:C:469:TYR:CG	1:C:470:PRO:HD2	1.81	1.14
1:B:301:THR:HG21	2:B:805:NAG:H82	1.29	1.14
1:B:482:THR:HG23	1:B:499:THR:CG2	1.75	1.14
1:A:90:GLU:HB2	1:B:90:GLU:N	1.63	1.14
1:A:403:ASN:HB2	2:A:902:NAG:H83	1.30	1.14
1:C:301:THR:HG21	2:C:805:NAG:H82	1.29	1.14
1:C:338:ARG:HD3	1:C:352:ILE:HG22	1.26	1.14
1:C:92:MET:HE3	1:D:2:TRP:HB2	1.27	1.12
1:D:450:GLN:HG2	1:D:532:CYS:O	1.43	1.12
1:C:92:MET:CE	1:D:2:TRP:CB	2.27	1.12
1:C:234:GLU:H	1:C:235:ILE:HG23	1.08	1.12
1:D:154:ASP:C	2:D:801:NAG:H82	1.70	1.12
1:D:474:SER:HB2	1:D:512:LEU:HG	1.25	1.11
1:D:8:LYS:H	1:D:8:LYS:HD2	1.04	1.11
1:B:338:ARG:HD3	1:B:352:ILE:HG22	1.26	1.11
1:C:474:SER:HB2	1:C:512:LEU:HG	1.25	1.11
1:D:32:ASN:HD21	1:D:83:GLU:HB2	0.98	1.11
1:C:154:ASP:C	2:C:801:NAG:H82	1.70	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:154:ASP:C	2:A:801:NAG:H82	1.70	1.10
1:B:154:ASP:C	2:B:801:NAG:H82	1.70	1.10
1:D:227:THR:HG21	2:D:807:NAG:C8	1.82	1.10
1:A:227:THR:HG21	2:A:807:NAG:C8	1.82	1.10
1:A:338:ARG:HD3	1:A:352:ILE:HG22	1.25	1.10
1:D:403:ASN:HB2	2:D:902:NAG:H83	1.30	1.09
1:B:32:ASN:HD21	1:B:83:GLU:HB2	0.98	1.09
1:D:301:THR:HG21	2:D:805:NAG:H82	1.29	1.09
1:A:222:ASP:OD1	1:A:222:ASP:O	1.69	1.09
1:C:227:THR:HG21	2:C:807:NAG:C8	1.82	1.09
1:A:3:VAL:N	1:B:4:ILE:O	1.58	1.09
1:C:222:ASP:OD1	1:C:222:ASP:O	1.69	1.09
1:A:301:THR:HG21	2:A:805:NAG:H82	1.29	1.08
1:A:474:SER:HB2	1:A:512:LEU:HG	1.25	1.08
1:B:227:THR:HG21	2:B:807:NAG:C8	1.82	1.08
1:C:32:ASN:HD21	1:C:83:GLU:HB2	0.98	1.08
1:A:32:ASN:HD21	1:A:83:GLU:HB2	0.98	1.08
1:C:290:PHE:HB2	1:C:292:LEU:N	1.69	1.08
1:D:234:GLU:H	1:D:235:ILE:HG23	1.08	1.08
1:A:2:TRP:CH2	1:B:95:THR:HG21	1.88	1.08
1:B:222:ASP:O	1:B:222:ASP:OD1	1.69	1.08
1:B:485:ALA:O	1:B:486:GLU:HG2	1.54	1.07
1:C:27:ASN:OD1	1:D:90:GLU:HB3	1.53	1.07
1:D:222:ASP:OD1	1:D:222:ASP:O	1.69	1.07
1:D:485:ALA:O	1:D:486:GLU:HG2	1.54	1.07
1:C:450:GLN:CG	1:C:532:CYS:O	2.03	1.07
1:C:482:THR:HG23	1:C:499:THR:HG22	1.09	1.07
1:A:485:ALA:O	1:A:486:GLU:HG2	1.55	1.07
1:B:482:THR:HG23	1:B:499:THR:HG22	1.09	1.07
1:D:338:ARG:HD3	1:D:352:ILE:HG22	1.26	1.07
1:A:5:PRO:HA	1:B:5:PRO:HG3	1.08	1.07
1:C:403:ASN:HB2	2:C:902:NAG:H83	1.30	1.07
1:A:8:LYS:H	1:A:8:LYS:HD2	1.04	1.07
1:A:482:THR:HG23	1:A:499:THR:HG22	1.09	1.07
1:B:403:ASN:HB2	2:B:902:NAG:H83	1.30	1.07
1:B:474:SER:HB2	1:B:512:LEU:HG	1.25	1.07
1:A:290:PHE:HB2	1:A:292:LEU:N	1.69	1.06
1:D:337:SER:HA	1:D:427:ILE:HG23	1.38	1.06
1:A:335:ALA:HB1	3:A:811:NDG:O6	1.54	1.06
1:A:92:MET:SD	1:B:3:VAL:HA	1.94	1.06
1:B:450:GLN:CG	1:B:532:CYS:O	2.02	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:TRP:CD2	1:B:95:THR:OG1	2.07	1.06
1:B:290:PHE:HB2	1:B:292:LEU:N	1.69	1.06
1:B:337:SER:HA	1:B:427:ILE:HG23	1.38	1.06
1:D:450:GLN:CG	1:D:532:CYS:O	2.02	1.06
1:B:335:ALA:HB1	3:B:811:NDG:O6	1.54	1.06
1:C:485:ALA:O	1:C:486:GLU:HG2	1.54	1.06
1:D:290:PHE:HB2	1:D:292:LEU:N	1.69	1.06
1:D:464:ILE:CD1	1:D:465:PRO:CD	2.20	1.06
1:B:469:TYR:CD1	1:B:470:PRO:HD2	1.91	1.05
1:C:335:ALA:HB1	3:C:811:NDG:O6	1.54	1.05
1:C:22:VAL:HG23	1:D:5:PRO:HG3	1.06	1.05
1:C:469:TYR:CD1	1:C:470:PRO:HD2	1.91	1.05
1:D:482:THR:HG23	1:D:499:THR:HG22	1.09	1.05
1:A:450:GLN:CG	1:A:532:CYS:O	2.03	1.05
1:A:469:TYR:CD1	1:A:470:PRO:HD2	1.91	1.05
1:A:464:ILE:CD1	1:A:465:PRO:CD	2.20	1.05
1:B:522:LEU:HD22	1:B:523:THR:HB	1.39	1.05
1:C:27:ASN:ND2	1:D:90:GLU:HG2	1.69	1.05
1:D:335:ALA:HB1	3:D:811:NDG:O6	1.54	1.05
1:D:469:TYR:CD1	1:D:470:PRO:HD2	1.92	1.05
1:B:290:PHE:HB2	1:B:292:LEU:H	0.88	1.04
1:C:482:THR:HG21	1:C:499:THR:H	1.23	1.04
1:C:92:MET:HE1	1:D:2:TRP:HB3	1.14	1.04
1:C:290:PHE:HB2	1:C:292:LEU:H	0.88	1.04
1:A:290:PHE:HB2	1:A:292:LEU:H	0.88	1.03
1:D:522:LEU:HD22	1:D:523:THR:HB	1.39	1.03
1:A:5:PRO:HA	1:B:5:PRO:CG	1.89	1.03
1:A:482:THR:CG2	1:A:499:THR:N	2.22	1.03
1:C:337:SER:HA	1:C:427:ILE:HG23	1.38	1.03
1:A:482:THR:HG21	1:A:499:THR:H	1.23	1.03
1:C:482:THR:CG2	1:C:499:THR:N	2.22	1.03
1:D:482:THR:CG2	1:D:499:THR:N	2.22	1.03
1:B:482:THR:CG2	1:B:499:THR:N	2.22	1.02
1:C:522:LEU:HD22	1:C:523:THR:HB	1.39	1.02
1:B:450:GLN:HB2	1:B:533:GLU:HA	1.41	1.02
1:B:482:THR:HG21	1:B:499:THR:H	1.23	1.02
1:D:290:PHE:HB2	1:D:292:LEU:H	0.89	1.02
1:B:403:ASN:HB2	2:B:902:NAG:C8	1.90	1.02
1:B:464:ILE:CD1	1:B:465:PRO:CD	2.20	1.02
1:D:403:ASN:HB2	2:D:902:NAG:C8	1.90	1.02
1:C:403:ASN:HB2	2:C:902:NAG:C8	1.90	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:337:SER:HA	1:A:427:ILE:HG23	1.38	1.02
1:A:403:ASN:HB2	2:A:902:NAG:C8	1.90	1.02
1:A:522:LEU:HD22	1:A:523:THR:HB	1.39	1.02
1:A:450:GLN:HB2	1:A:533:GLU:HA	1.41	1.01
1:D:482:THR:HG21	1:D:499:THR:H	1.23	1.01
1:A:432:ASP:OD2	1:A:464:ILE:HG22	1.60	1.01
1:D:274:ASP:O	1:D:278:ASN:HA	1.61	1.01
1:B:432:ASP:OD2	1:B:464:ILE:HG22	1.60	1.00
1:A:1:ASP:O	1:B:94:ILE:HA	0.89	1.00
1:B:290:PHE:HZ	1:B:296:TYR:HH	1.05	1.00
1:C:432:ASP:OD2	1:C:464:ILE:HG22	1.60	1.00
1:C:27:ASN:OD1	1:D:90:GLU:CB	2.08	1.00
1:C:450:GLN:HB2	1:C:533:GLU:HA	1.41	1.00
1:A:2:TRP:CD1	1:B:93:GLU:CD	2.34	1.00
1:A:2:TRP:HB2	1:B:93:GLU:OE1	1.58	1.00
1:A:188:THR:HG23	1:A:208:ILE:HG12	1.43	0.99
1:C:464:ILE:CD1	1:C:465:PRO:CD	2.20	0.99
1:A:274:ASP:O	1:A:278:ASN:HA	1.61	0.99
1:A:482:THR:CG2	1:A:499:THR:H	1.76	0.99
1:B:482:THR:CG2	1:B:499:THR:H	1.76	0.99
1:D:432:ASP:OD2	1:D:464:ILE:HG22	1.60	0.99
1:A:92:MET:SD	1:B:3:VAL:CG1	2.50	0.99
1:A:320:THR:HG21	2:A:807:NAG:N2	1.78	0.99
1:C:188:THR:HG23	1:C:208:ILE:HG12	1.43	0.99
1:D:450:GLN:HB2	1:D:533:GLU:HA	1.41	0.99
1:C:2:TRP:HZ2	1:D:53:ILE:HD11	1.28	0.99
1:C:274:ASP:O	1:C:278:ASN:HA	1.61	0.99
1:D:482:THR:CG2	1:D:499:THR:H	1.76	0.99
1:B:188:THR:HG23	1:B:208:ILE:HG12	1.43	0.98
1:A:290:PHE:HZ	1:A:296:TYR:HH	1.05	0.98
1:A:366:LYS:HG3	1:A:367:LEU:H	1.28	0.98
1:B:320:THR:HG21	2:B:807:NAG:N2	1.78	0.98
1:D:320:THR:HG21	2:D:807:NAG:N2	1.78	0.98
1:B:274:ASP:O	1:B:278:ASN:HA	1.61	0.98
1:C:523:THR:HG23	1:C:524:VAL:H	1.26	0.98
1:C:482:THR:CG2	1:C:499:THR:H	1.76	0.97
1:C:320:THR:HG21	2:C:807:NAG:N2	1.78	0.97
1:D:188:THR:HG23	1:D:208:ILE:HG12	1.43	0.97
1:A:3:VAL:C	1:B:3:VAL:HB	1.85	0.96
1:D:366:LYS:HG3	1:D:367:LEU:H	1.28	0.96
1:B:366:LYS:HG3	1:B:367:LEU:H	1.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:482:THR:HG21	1:C:499:THR:N	1.81	0.96
1:D:235:ILE:CG1	1:D:287:GLY:HA2	1.96	0.96
1:D:523:THR:HG23	1:D:524:VAL:H	1.27	0.96
1:A:227:THR:HG21	2:A:807:NAG:H83	1.48	0.96
1:D:320:THR:HG21	2:D:807:NAG:HN2	1.31	0.96
1:C:320:THR:HG21	2:C:807:NAG:HN2	1.31	0.96
1:A:290:PHE:CB	1:A:292:LEU:H	1.79	0.96
1:B:235:ILE:CG1	1:B:287:GLY:HA2	1.96	0.96
1:A:93:GLU:C	1:B:2:TRP:CB	2.31	0.95
1:D:290:PHE:CB	1:D:292:LEU:H	1.79	0.95
1:C:366:LYS:HG3	1:C:367:LEU:H	1.28	0.95
1:B:482:THR:HG21	1:B:499:THR:N	1.81	0.95
1:C:32:ASN:HD21	1:C:83:GLU:CB	1.79	0.95
1:A:76:LEU:HB2	1:B:2:TRP:HE1	1.31	0.95
1:C:227:THR:HG21	2:C:807:NAG:H83	1.48	0.95
1:C:235:ILE:CG1	1:C:287:GLY:HA2	1.96	0.95
1:A:32:ASN:HD21	1:A:83:GLU:CB	1.79	0.95
1:A:235:ILE:CG1	1:A:287:GLY:HA2	1.96	0.95
1:A:523:THR:HG23	1:A:524:VAL:H	1.27	0.95
1:D:32:ASN:HD21	1:D:83:GLU:CB	1.79	0.95
1:B:32:ASN:HD21	1:B:83:GLU:CB	1.79	0.95
1:B:523:THR:HG23	1:B:524:VAL:H	1.26	0.95
1:C:94:ILE:HG21	1:D:2:TRP:CH2	2.01	0.94
1:A:289:ASP:O	1:A:290:PHE:HB3	1.67	0.94
1:C:289:ASP:O	1:C:290:PHE:HB3	1.67	0.94
1:B:290:PHE:CB	1:B:292:LEU:H	1.79	0.94
1:D:464:ILE:HD12	1:D:465:PRO:HD2	0.94	0.94
1:A:366:LYS:CG	1:A:367:LEU:H	1.80	0.94
1:A:396:ARG:HH22	1:A:464:ILE:HB	1.33	0.94
1:C:366:LYS:CG	1:C:367:LEU:H	1.80	0.94
1:D:227:THR:HG21	2:D:807:NAG:H83	1.48	0.93
1:D:366:LYS:CG	1:D:367:LEU:H	1.80	0.93
1:A:227:THR:HG21	2:A:807:NAG:C7	1.99	0.93
1:B:227:THR:HG21	2:B:807:NAG:C7	1.99	0.93
1:D:27:ASN:HD22	1:D:28:LYS:N	1.66	0.93
1:B:32:ASN:ND2	1:B:83:GLU:HB2	1.84	0.93
1:B:352:ILE:HG13	1:B:388:VAL:HB	1.51	0.93
1:C:32:ASN:ND2	1:C:83:GLU:HB2	1.84	0.93
1:C:464:ILE:HD12	1:C:465:PRO:HD2	0.94	0.93
1:D:227:THR:HG21	2:D:807:NAG:C7	1.99	0.93
1:A:320:THR:HG21	2:A:807:NAG:HN2	1.31	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:366:LYS:CG	1:B:367:LEU:H	1.80	0.93
1:A:352:ILE:HG13	1:A:388:VAL:HB	1.51	0.93
1:D:32:ASN:ND2	1:D:83:GLU:HB2	1.84	0.93
1:D:289:ASP:O	1:D:290:PHE:HB3	1.67	0.93
1:A:27:ASN:HD22	1:A:28:LYS:N	1.66	0.93
1:A:90:GLU:H	1:B:90:GLU:CB	1.81	0.93
1:C:352:ILE:HG13	1:C:388:VAL:HB	1.51	0.93
1:B:27:ASN:HD22	1:B:28:LYS:N	1.66	0.93
1:C:290:PHE:CB	1:C:292:LEU:H	1.79	0.93
1:B:8:LYS:H	1:B:8:LYS:CD	1.74	0.93
1:B:195:ASP:HB2	1:B:201:LEU:H	1.34	0.93
1:C:446:THR:HG23	1:C:539:CYS:SG	2.09	0.93
1:A:482:THR:HG21	1:A:499:THR:N	1.81	0.92
1:C:22:VAL:HG23	1:D:5:PRO:CG	1.96	0.92
1:D:446:THR:HG23	1:D:539:CYS:SG	2.09	0.92
1:D:482:THR:HG21	1:D:499:THR:N	1.81	0.92
1:A:32:ASN:ND2	1:A:83:GLU:HB2	1.84	0.92
1:B:396:ARG:HH22	1:B:464:ILE:HB	1.33	0.92
1:B:403:ASN:HB2	2:B:902:NAG:C7	2.00	0.92
1:D:352:ILE:HG13	1:D:388:VAL:HB	1.51	0.92
1:A:446:THR:HG23	1:A:539:CYS:SG	2.09	0.92
1:C:195:ASP:HB2	1:C:201:LEU:H	1.34	0.92
1:D:396:ARG:HH22	1:D:464:ILE:HB	1.33	0.92
1:B:464:ILE:HD12	1:B:465:PRO:HD2	0.94	0.92
2:C:805:NAG:H62	2:C:806:NAG:C7	2.00	0.92
1:D:404:ASN:O	1:D:404:ASN:ND2	2.03	0.92
1:A:464:ILE:HD12	1:A:465:PRO:HD2	0.94	0.92
1:A:8:LYS:H	1:A:8:LYS:CD	1.74	0.92
1:C:227:THR:HG21	2:C:807:NAG:C7	1.99	0.92
1:A:404:ASN:O	1:A:404:ASN:ND2	2.03	0.92
2:B:805:NAG:H62	2:B:806:NAG:C7	2.00	0.92
1:B:446:THR:HG23	1:B:539:CYS:SG	2.10	0.92
1:C:403:ASN:HB2	2:C:902:NAG:C7	2.00	0.92
1:D:403:ASN:HB2	2:D:902:NAG:C7	2.00	0.92
1:A:195:ASP:HB2	1:A:201:LEU:H	1.34	0.91
1:D:195:ASP:HB2	1:D:201:LEU:H	1.34	0.91
1:B:289:ASP:O	1:B:290:PHE:HB3	1.67	0.91
1:B:335:ALA:CB	3:B:811:NDG:O6	2.18	0.91
1:B:227:THR:HG21	2:B:807:NAG:H83	1.48	0.91
1:C:8:LYS:H	1:C:8:LYS:CD	1.74	0.91
1:C:335:ALA:CB	3:C:811:NDG:O6	2.18	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:464:ILE:HD12	1:D:465:PRO:HD3	1.53	0.91
1:C:396:ARG:HH22	1:C:464:ILE:HB	1.33	0.91
2:D:805:NAG:H62	2:D:806:NAG:C7	2.00	0.91
1:C:24:ILE:HB	1:D:2:TRP:N	1.79	0.91
1:D:234:GLU:N	1:D:235:ILE:HG23	1.86	0.91
2:A:805:NAG:O5	2:A:806:NAG:H83	1.71	0.91
2:A:805:NAG:H62	2:A:806:NAG:C7	2.00	0.91
1:B:404:ASN:ND2	1:B:404:ASN:O	2.03	0.91
1:C:27:ASN:HD22	1:C:28:LYS:N	1.66	0.91
1:C:234:GLU:N	1:C:235:ILE:HG23	1.86	0.91
1:D:335:ALA:CB	3:D:811:NDG:O6	2.18	0.91
1:A:340:ASP:HA	1:A:429:HIS:HB3	1.53	0.91
1:A:335:ALA:CB	3:A:811:NDG:O6	2.18	0.90
1:C:464:ILE:HD11	1:C:465:PRO:HD2	1.53	0.90
1:C:517:GLN:O	1:C:519:ASN:N	2.03	0.90
1:C:404:ASN:O	1:C:404:ASN:ND2	2.03	0.90
1:A:154:ASP:HB3	1:A:155:PRO:HD2	1.54	0.90
2:D:805:NAG:O5	2:D:806:NAG:H83	1.71	0.90
1:B:518:ASN:O	1:B:520:PRO:HD3	1.72	0.90
1:A:338:ARG:HD3	1:A:352:ILE:CG2	2.02	0.90
1:A:378:TRP:HB2	1:A:379:LEU:HD23	1.53	0.90
1:D:8:LYS:H	1:D:8:LYS:CD	1.74	0.90
1:A:403:ASN:HB2	2:A:902:NAG:C7	2.00	0.90
1:B:517:GLN:O	1:B:519:ASN:N	2.03	0.90
1:A:234:GLU:N	1:A:235:ILE:HG23	1.86	0.90
1:B:464:ILE:HD12	1:B:465:PRO:HD3	1.53	0.90
1:C:338:ARG:HD3	1:C:352:ILE:CG2	2.02	0.90
1:C:340:ASP:HA	1:C:429:HIS:HB3	1.53	0.90
1:C:378:TRP:HB2	1:C:379:LEU:HD23	1.53	0.90
2:C:805:NAG:O5	2:C:806:NAG:H83	1.71	0.90
1:D:340:ASP:HA	1:D:429:HIS:HB3	1.53	0.90
1:B:234:GLU:N	1:B:235:ILE:HG23	1.86	0.90
1:C:449:ASP:H	1:C:532:CYS:HB3	1.37	0.90
1:C:8:LYS:HD2	1:C:8:LYS:N	1.87	0.90
1:C:27:ASN:HD21	1:D:90:GLU:CG	1.75	0.90
1:D:8:LYS:HD2	1:D:8:LYS:N	1.87	0.90
1:D:338:ARG:HD3	1:D:352:ILE:CG2	2.02	0.90
1:A:517:GLN:O	1:A:519:ASN:N	2.03	0.89
1:B:8:LYS:HD2	1:B:8:LYS:N	1.87	0.89
1:D:517:GLN:O	1:D:519:ASN:N	2.03	0.89
1:A:76:LEU:HB2	1:B:2:TRP:NE1	1.87	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:GLU:H	1:B:90:GLU:HB2	1.37	0.89
1:A:518:ASN:O	1:A:520:PRO:HD3	1.72	0.89
1:C:396:ARG:NH2	1:C:464:ILE:CG2	2.35	0.89
1:C:523:THR:HG23	1:C:524:VAL:CG2	2.03	0.89
1:A:464:ILE:HD12	1:A:465:PRO:HD3	1.53	0.89
1:C:27:ASN:OD1	1:D:90:GLU:C	2.09	0.89
1:D:518:ASN:O	1:D:520:PRO:HD3	1.72	0.89
1:A:523:THR:HG23	1:A:524:VAL:CG2	2.03	0.89
1:D:523:THR:HG23	1:D:524:VAL:CG2	2.03	0.89
1:A:8:LYS:HD2	1:A:8:LYS:N	1.87	0.89
1:B:338:ARG:HD3	1:B:352:ILE:CG2	2.02	0.89
1:B:371:ILE:CD1	1:B:381:VAL:HG11	2.03	0.89
1:C:518:ASN:O	1:C:520:PRO:HD3	1.72	0.89
1:B:340:ASP:HA	1:B:429:HIS:HB3	1.53	0.89
1:B:378:TRP:HB2	1:B:379:LEU:HD23	1.53	0.89
1:A:92:MET:SD	1:B:3:VAL:HG12	2.12	0.89
1:A:371:ILE:CD1	1:A:381:VAL:HG11	2.03	0.89
1:B:320:THR:HG21	2:B:807:NAG:HN2	1.31	0.89
1:B:396:ARG:NH2	1:B:464:ILE:CG2	2.35	0.89
1:B:374:ASP:O	1:B:375:PRO:C	2.06	0.89
2:B:805:NAG:O5	2:B:806:NAG:H83	1.71	0.89
1:C:371:ILE:CD1	1:C:381:VAL:HG11	2.03	0.89
1:D:343:GLU:HB3	1:D:433:VAL:HG21	1.55	0.89
1:D:378:TRP:HB2	1:D:379:LEU:HD23	1.53	0.88
1:A:396:ARG:NH2	1:A:464:ILE:CG2	2.35	0.88
1:A:464:ILE:HD11	1:A:465:PRO:HD2	1.53	0.88
1:D:318:THR:HG21	2:D:806:NAG:H5	1.56	0.88
1:D:396:ARG:NH2	1:D:464:ILE:CG2	2.35	0.88
1:A:2:TRP:CB	1:B:93:GLU:OE1	2.21	0.88
1:D:464:ILE:HD11	1:D:465:PRO:HD2	1.53	0.88
1:B:523:THR:HG23	1:B:524:VAL:CG2	2.03	0.88
1:C:343:GLU:HB3	1:C:433:VAL:HG21	1.55	0.88
1:D:486:GLU:HB2	1:D:495:LEU:HB2	1.56	0.88
1:A:221:PHE:HE1	1:A:315:SER:O	1.56	0.88
1:A:486:GLU:HB2	1:A:495:LEU:HB2	1.56	0.88
1:B:221:PHE:HE1	1:B:315:SER:O	1.56	0.88
1:B:333:VAL:HB	1:B:334:PRO:HD3	1.56	0.88
1:C:154:ASP:HB3	1:C:155:PRO:HD2	1.54	0.88
1:D:221:PHE:HE1	1:D:315:SER:O	1.56	0.88
1:D:371:ILE:CD1	1:D:381:VAL:HG11	2.03	0.88
1:B:154:ASP:HB3	1:B:155:PRO:HD2	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:ASP:H	1:B:532:CYS:HB3	1.37	0.88
1:A:483:TRP:CZ3	1:A:498:PRO:HG3	2.09	0.88
1:C:1:ASP:CG	1:D:26:SER:HA	1.92	0.88
1:D:333:VAL:HB	1:D:334:PRO:HD3	1.56	0.88
1:A:449:ASP:H	1:A:532:CYS:HB3	1.37	0.88
1:C:221:PHE:HE1	1:C:315:SER:O	1.56	0.88
1:A:2:TRP:CZ2	1:B:95:THR:HG21	2.09	0.87
1:A:374:ASP:O	1:A:375:PRO:C	2.06	0.87
1:B:486:GLU:HB2	1:B:495:LEU:HB2	1.56	0.87
1:D:154:ASP:HB3	1:D:155:PRO:HD2	1.54	0.87
1:A:90:GLU:HB2	1:B:90:GLU:CA	2.04	0.87
1:B:318:THR:HG21	2:B:806:NAG:H5	1.56	0.87
1:D:449:ASP:H	1:D:532:CYS:HB3	1.37	0.87
1:A:2:TRP:CG	1:B:93:GLU:OE1	2.27	0.87
1:A:3:VAL:HG11	1:B:4:ILE:CD1	1.65	0.87
1:C:483:TRP:CZ3	1:C:498:PRO:HG3	2.09	0.87
1:C:486:GLU:HB2	1:C:495:LEU:HB2	1.56	0.87
1:D:483:TRP:CZ3	1:D:498:PRO:HG3	2.09	0.87
1:A:257:ALA:O	1:A:273:THR:HG21	1.74	0.87
1:C:333:VAL:HB	1:C:334:PRO:HD3	1.56	0.87
1:D:441:SER:OG	1:D:442:PRO:HD3	1.75	0.87
1:B:257:ALA:O	1:B:273:THR:HG21	1.74	0.87
1:A:441:SER:OG	1:A:442:PRO:HD3	1.75	0.87
1:B:343:GLU:HB3	1:B:433:VAL:HG21	1.55	0.87
1:C:318:THR:HG21	2:C:806:NAG:H5	1.56	0.87
1:D:374:ASP:O	1:D:375:PRO:C	2.06	0.87
1:B:440:PRO:CD	1:B:522:LEU:HD12	2.05	0.87
1:D:523:THR:HG23	1:D:524:VAL:N	1.90	0.87
1:B:523:THR:HG23	1:B:524:VAL:N	1.90	0.86
1:C:2:TRP:HZ2	1:D:53:ILE:CD1	1.88	0.86
1:C:320:THR:HG21	2:C:807:NAG:C2	2.05	0.86
1:D:257:ALA:O	1:D:273:THR:HG21	1.74	0.86
1:B:483:TRP:CZ3	1:B:498:PRO:HG3	2.09	0.86
1:D:440:PRO:CD	1:D:522:LEU:HD12	2.05	0.86
1:A:1:ASP:HB2	1:B:92:MET:C	1.92	0.86
1:A:333:VAL:HB	1:A:334:PRO:HD3	1.56	0.86
1:B:464:ILE:HD11	1:B:465:PRO:HD2	1.53	0.86
1:C:440:PRO:CD	1:C:522:LEU:HD12	2.05	0.86
1:A:320:THR:HG21	2:A:807:NAG:C2	2.05	0.86
1:A:523:THR:HG23	1:A:524:VAL:N	1.90	0.86
1:B:441:SER:OG	1:B:442:PRO:HD3	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:THR:HG21	2:A:806:NAG:H5	1.56	0.86
1:A:423:THR:CB	2:A:810:NAG:C7	2.54	0.86
1:B:483:TRP:HZ2	1:B:507:TYR:HE1	1.24	0.85
1:D:320:THR:HG21	2:D:807:NAG:C2	2.05	0.85
1:D:464:ILE:HD12	1:D:465:PRO:N	1.91	0.85
1:C:257:ALA:O	1:C:273:THR:HG21	1.74	0.85
1:A:440:PRO:CD	1:A:522:LEU:HD12	2.05	0.85
1:B:423:THR:CB	2:B:810:NAG:C7	2.54	0.85
1:C:441:SER:OG	1:C:442:PRO:HD3	1.75	0.85
1:B:320:THR:HG21	2:B:807:NAG:C2	2.05	0.85
1:C:523:THR:HG23	1:C:524:VAL:N	1.90	0.85
1:D:235:ILE:HG13	1:D:287:GLY:HA2	1.58	0.85
1:A:90:GLU:CB	1:B:90:GLU:N	2.26	0.85
1:A:343:GLU:HB3	1:A:433:VAL:HG21	1.55	0.85
1:B:451:ASN:N	1:B:533:GLU:O	2.10	0.85
1:A:90:GLU:N	1:B:90:GLU:HB2	1.91	0.85
1:A:438:PRO:HB3	1:A:471:TYR:HE2	1.41	0.85
1:C:483:TRP:HZ2	1:C:507:TYR:CE1	1.95	0.85
1:A:451:ASN:N	1:A:533:GLU:O	2.10	0.85
1:C:423:THR:CB	2:C:810:NAG:C7	2.54	0.85
1:D:440:PRO:HD2	1:D:522:LEU:HD12	1.59	0.85
1:D:451:ASN:N	1:D:533:GLU:O	2.10	0.85
1:A:483:TRP:HZ2	1:A:507:TYR:CE1	1.95	0.85
1:D:423:THR:CB	2:D:810:NAG:C7	2.54	0.85
1:A:464:ILE:HD12	1:A:465:PRO:N	1.91	0.85
1:B:438:PRO:HB3	1:B:471:TYR:HE2	1.41	0.85
1:B:483:TRP:HZ2	1:B:507:TYR:CE1	1.95	0.84
1:C:464:ILE:HD12	1:C:465:PRO:HD3	1.53	0.84
1:C:27:ASN:CG	1:D:90:GLU:CG	2.44	0.84
1:D:483:TRP:HZ2	1:D:507:TYR:CE1	1.95	0.84
1:B:440:PRO:HD2	1:B:522:LEU:HD12	1.59	0.84
1:B:464:ILE:HD12	1:B:465:PRO:N	1.91	0.84
1:C:27:ASN:CG	1:D:90:GLU:CB	2.33	0.84
1:A:235:ILE:HG13	1:A:287:GLY:HA2	1.57	0.84
1:D:483:TRP:HZ2	1:D:507:TYR:HE1	1.24	0.84
1:C:440:PRO:HD2	1:C:522:LEU:HD12	1.59	0.84
1:B:235:ILE:HG13	1:B:287:GLY:HA2	1.57	0.84
1:B:375:PRO:HB3	1:B:400:TYR:CE2	2.12	0.84
1:C:451:ASN:N	1:C:533:GLU:O	2.10	0.84
1:A:375:PRO:HB3	1:A:400:TYR:CE2	2.12	0.84
1:C:230:VAL:O	1:C:324:GLU:N	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:375:PRO:HB3	1:C:400:TYR:CE2	2.12	0.84
1:C:464:ILE:HD12	1:C:465:PRO:N	1.91	0.84
1:C:438:PRO:HB3	1:C:471:TYR:HE2	1.41	0.83
1:B:423:THR:HB	2:B:810:NAG:N2	1.93	0.83
1:B:469:TYR:CG	1:B:470:PRO:CD	2.61	0.83
1:D:396:ARG:NE	1:D:432:ASP:HB2	1.93	0.83
1:D:375:PRO:HB3	1:D:400:TYR:CE2	2.12	0.83
1:D:423:THR:HB	2:D:810:NAG:N2	1.93	0.83
1:C:147:SER:OG	1:C:167:ARG:HD2	1.78	0.83
1:C:374:ASP:O	1:C:375:PRO:C	2.06	0.83
1:D:438:PRO:HB3	1:D:471:TYR:HE2	1.41	0.83
1:C:235:ILE:HG13	1:C:287:GLY:HA2	1.58	0.83
1:C:396:ARG:NE	1:C:432:ASP:HB2	1.93	0.83
1:D:32:ASN:ND2	1:D:83:GLU:H	1.77	0.83
1:C:448:CYS:O	1:C:452:PRO:HG3	1.78	0.83
1:D:230:VAL:O	1:D:324:GLU:N	2.11	0.83
1:B:396:ARG:NE	1:B:432:ASP:HB2	1.93	0.83
1:C:483:TRP:HZ2	1:C:507:TYR:HE1	1.24	0.83
1:A:440:PRO:HD2	1:A:522:LEU:HD12	1.59	0.83
1:B:147:SER:OG	1:B:167:ARG:HD2	1.78	0.83
1:C:32:ASN:ND2	1:C:83:GLU:H	1.77	0.83
1:D:234:GLU:H	1:D:235:ILE:CG2	1.92	0.83
1:A:147:SER:OG	1:A:167:ARG:HD2	1.78	0.83
1:A:155:PRO:HB2	2:A:801:NAG:H81	1.59	0.83
1:A:423:THR:CB	2:A:810:NAG:N2	2.42	0.83
1:D:448:CYS:O	1:D:452:PRO:HG3	1.79	0.83
1:D:469:TYR:CG	1:D:470:PRO:CD	2.61	0.83
1:A:446:THR:HG21	1:A:537:ILE:O	1.79	0.82
1:B:230:VAL:O	1:B:324:GLU:N	2.11	0.82
1:C:155:PRO:HB2	2:C:801:NAG:H81	1.59	0.82
1:D:482:THR:HG21	1:D:500:GLN:N	1.94	0.82
1:A:154:ASP:HB3	2:A:801:NAG:N2	1.95	0.82
1:A:230:VAL:O	1:A:324:GLU:N	2.11	0.82
1:A:423:THR:HB	2:A:810:NAG:N2	1.93	0.82
1:B:446:THR:HG21	1:B:537:ILE:O	1.79	0.82
1:A:1:ASP:O	1:B:95:THR:N	2.11	0.82
1:C:469:TYR:CG	1:C:470:PRO:CD	2.61	0.82
1:D:154:ASP:HB3	2:D:801:NAG:HN2	1.45	0.82
1:D:289:ASP:O	1:D:289:ASP:OD2	1.97	0.82
1:A:396:ARG:NE	1:A:432:ASP:HB2	1.93	0.82
1:B:289:ASP:O	1:B:289:ASP:OD2	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:289:ASP:O	1:C:289:ASP:OD2	1.97	0.82
1:C:423:THR:HB	2:C:810:NAG:N2	1.93	0.82
1:C:446:THR:HG21	1:C:537:ILE:O	1.79	0.82
1:A:92:MET:SD	1:B:3:VAL:HG13	2.19	0.82
1:A:290:PHE:HD2	1:A:293:ARG:H	1.28	0.82
1:A:483:TRP:HZ2	1:A:507:TYR:HE1	1.24	0.82
1:B:154:ASP:HB3	2:B:801:NAG:N2	1.95	0.82
1:B:155:PRO:HB2	2:B:801:NAG:H81	1.60	0.82
1:D:277:SER:C	1:D:278:ASN:HD22	1.83	0.82
1:A:92:MET:SD	1:B:3:VAL:CA	2.68	0.81
1:A:289:ASP:O	1:A:289:ASP:OD2	1.97	0.81
1:B:32:ASN:ND2	1:B:83:GLU:H	1.76	0.81
1:D:154:ASP:HB3	2:D:801:NAG:N2	1.95	0.81
1:D:299:GLN:HG2	1:D:318:THR:HG23	1.62	0.81
1:A:32:ASN:ND2	1:A:83:GLU:H	1.77	0.81
1:A:154:ASP:HB3	2:A:801:NAG:HN2	1.45	0.81
1:A:234:GLU:H	1:A:235:ILE:CG2	1.92	0.81
1:B:154:ASP:HB3	2:B:801:NAG:HN2	1.45	0.81
1:B:423:THR:CB	2:B:810:NAG:N2	2.42	0.81
1:B:482:THR:HG21	1:B:500:GLN:N	1.95	0.81
1:C:277:SER:C	1:C:278:ASN:HD22	1.84	0.81
1:C:299:GLN:HG2	1:C:318:THR:HG23	1.62	0.81
1:C:517:GLN:C	1:C:519:ASN:H	1.84	0.81
1:D:155:PRO:HB2	2:D:801:NAG:H81	1.59	0.81
1:D:423:THR:CB	2:D:810:NAG:N2	2.42	0.81
1:A:90:GLU:HB2	1:B:90:GLU:CB	2.10	0.81
1:A:517:GLN:C	1:A:519:ASN:H	1.84	0.81
1:A:540:GLN:O	1:A:540:GLN:OE1	1.97	0.81
1:D:446:THR:HG21	1:D:537:ILE:O	1.79	0.81
1:A:448:CYS:O	1:A:452:PRO:HG3	1.79	0.81
1:B:486:GLU:O	1:B:494:MET:HA	1.81	0.81
1:B:448:CYS:O	1:B:452:PRO:HG3	1.79	0.81
1:D:517:GLN:C	1:D:519:ASN:H	1.84	0.81
1:C:28:LYS:HD3	1:C:88:VAL:HG12	1.61	0.81
1:A:277:SER:C	1:A:278:ASN:HD22	1.84	0.81
1:C:154:ASP:HB3	2:C:801:NAG:N2	1.95	0.81
1:C:469:TYR:CD2	1:C:470:PRO:HD2	2.16	0.81
1:B:234:GLU:H	1:B:235:ILE:CG2	1.92	0.81
1:C:290:PHE:HD2	1:C:293:ARG:H	1.28	0.81
1:C:486:GLU:O	1:C:494:MET:HA	1.81	0.81
1:A:469:TYR:CG	1:A:470:PRO:CD	2.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:LYS:HD3	1:B:88:VAL:HG12	1.61	0.81
1:C:290:PHE:CE2	1:C:293:ARG:HB2	2.16	0.81
1:C:482:THR:HG21	1:C:500:GLN:N	1.95	0.81
1:C:496:LEU:HD21	1:C:509:ILE:HD13	1.63	0.81
1:D:28:LYS:HD3	1:D:88:VAL:HG12	1.61	0.81
1:A:127:VAL:HG13	1:A:128:MET:H	1.46	0.80
1:C:2:TRP:CZ2	1:D:53:ILE:HD11	2.15	0.80
1:D:540:GLN:O	1:D:540:GLN:OE1	1.97	0.80
1:A:299:GLN:HG2	1:A:318:THR:HG23	1.62	0.80
1:A:396:ARG:HH21	1:A:464:ILE:HG22	1.46	0.80
1:A:469:TYR:CD2	1:A:470:PRO:HD2	2.16	0.80
1:A:482:THR:HG21	1:A:500:GLN:N	1.95	0.80
1:B:277:SER:C	1:B:278:ASN:HD22	1.83	0.80
1:C:540:GLN:O	1:C:540:GLN:OE1	1.97	0.80
1:A:27:ASN:HD22	1:A:27:ASN:C	1.85	0.80
1:A:290:PHE:CE2	1:A:293:ARG:HB2	2.16	0.80
1:A:496:LEU:HD21	1:A:509:ILE:HD13	1.63	0.80
1:B:127:VAL:HG13	1:B:128:MET:H	1.46	0.80
1:B:396:ARG:HH21	1:B:464:ILE:HG22	1.46	0.80
1:A:28:LYS:HD3	1:A:88:VAL:HG12	1.61	0.80
1:A:432:ASP:OD2	1:A:464:ILE:CG2	2.30	0.80
1:B:540:GLN:O	1:B:540:GLN:OE1	1.97	0.80
1:C:423:THR:CB	2:C:810:NAG:N2	2.42	0.80
2:D:904:NAG:H3	2:D:904:NAG:O7	1.82	0.80
1:A:406:TYR:CD1	2:A:808:NAG:H83	2.17	0.80
1:A:486:GLU:O	1:A:494:MET:HA	1.81	0.80
1:B:469:TYR:CD2	1:B:470:PRO:HD2	2.16	0.80
1:B:290:PHE:CE2	1:B:293:ARG:HB2	2.16	0.80
1:C:154:ASP:HB3	2:C:801:NAG:HN2	1.45	0.80
1:A:265:GLU:HB3	1:A:268:PHE:HE2	1.46	0.80
1:C:265:GLU:HB3	1:C:268:PHE:HE2	1.46	0.80
1:C:523:THR:CG2	1:C:524:VAL:H	1.94	0.80
1:D:469:TYR:CD2	1:D:470:PRO:HD2	2.16	0.80
1:B:482:THR:OG1	1:B:500:GLN:HG2	1.82	0.80
1:C:222:ASP:OD1	1:C:222:ASP:C	2.20	0.80
1:D:290:PHE:HD2	1:D:293:ARG:H	1.28	0.80
1:D:406:TYR:CD1	2:D:808:NAG:H83	2.17	0.80
1:D:485:ALA:O	1:D:486:GLU:CG	2.30	0.80
1:A:371:ILE:HD11	1:A:381:VAL:HG11	1.64	0.80
1:C:27:ASN:HD22	1:C:27:ASN:C	1.85	0.80
1:C:396:ARG:HD3	1:C:431:LEU:C	2.03	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:GLU:HB3	1:B:268:PHE:HE2	1.46	0.79
1:B:299:GLN:HG2	1:B:318:THR:HG23	1.62	0.79
1:B:517:GLN:C	1:B:519:ASN:H	1.84	0.79
1:C:22:VAL:HG21	1:D:5:PRO:HG3	1.61	0.79
1:B:232:GLU:HG3	1:B:290:PHE:N	1.98	0.79
1:C:396:ARG:HH21	1:C:464:ILE:HG22	1.46	0.79
1:C:406:TYR:CD1	2:C:808:NAG:H83	2.17	0.79
1:C:432:ASP:OD2	1:C:464:ILE:CG2	2.30	0.79
1:C:482:THR:OG1	1:C:500:GLN:HG2	1.82	0.79
1:D:290:PHE:CE2	1:D:293:ARG:HB2	2.16	0.79
1:D:496:LEU:HD21	1:D:509:ILE:HD13	1.63	0.79
1:A:155:PRO:C	1:A:157:GLU:H	1.86	0.79
1:C:155:PRO:C	1:C:157:GLU:H	1.86	0.79
1:C:449:ASP:HB3	1:C:532:CYS:H	1.47	0.79
1:D:396:ARG:HD3	1:D:431:LEU:C	2.03	0.79
1:D:432:ASP:OD2	1:D:464:ILE:CG2	2.30	0.79
1:A:482:THR:OG1	1:A:500:GLN:HG2	1.82	0.79
1:B:195:ASP:HB3	1:B:200:GLY:HA3	1.65	0.79
1:A:232:GLU:HG3	1:A:290:PHE:N	1.98	0.79
1:B:432:ASP:OD2	1:B:464:ILE:CG2	2.30	0.79
1:D:265:GLU:HB3	1:D:268:PHE:HE2	1.46	0.79
1:A:154:ASP:CB	1:A:155:PRO:HD2	2.13	0.79
1:A:222:ASP:OD1	1:A:222:ASP:C	2.20	0.79
1:A:485:ALA:O	1:A:486:GLU:CG	2.31	0.79
1:C:154:ASP:CB	1:C:155:PRO:HD2	2.13	0.79
1:C:540:GLN:O	1:C:540:GLN:CG	2.30	0.79
1:B:365:GLN:O	1:B:365:GLN:HG3	1.82	0.79
1:D:396:ARG:HH21	1:D:464:ILE:HG22	1.46	0.79
1:B:396:ARG:HD3	1:B:431:LEU:C	2.02	0.79
2:C:809:NAG:H61	2:C:810:NAG:H62	1.65	0.79
1:D:482:THR:OG1	1:D:500:GLN:HG2	1.82	0.79
1:D:540:GLN:O	1:D:540:GLN:CG	2.31	0.79
1:C:232:GLU:HG3	1:C:290:PHE:N	1.98	0.79
2:C:904:NAG:O7	2:C:904:NAG:H3	1.82	0.79
1:A:540:GLN:O	1:A:540:GLN:CG	2.30	0.78
2:B:904:NAG:H3	2:B:904:NAG:O7	1.82	0.78
1:C:127:VAL:HG13	1:C:128:MET:H	1.46	0.78
1:C:238:GLU:HA	1:C:283:THR:HG22	1.66	0.78
1:C:365:GLN:HG3	1:C:365:GLN:O	1.82	0.78
1:D:155:PRO:C	1:D:157:GLU:H	1.86	0.78
1:B:147:SER:OG	1:B:167:ARG:CG	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:406:TYR:CD1	2:B:808:NAG:H83	2.17	0.78
1:D:154:ASP:CB	1:D:155:PRO:HD2	2.13	0.78
1:D:371:ILE:HD11	1:D:381:VAL:HG11	1.64	0.78
1:A:301:THR:HG21	2:A:805:NAG:C8	2.12	0.78
1:D:449:ASP:HB3	1:D:532:CYS:H	1.47	0.78
1:D:486:GLU:O	1:D:494:MET:HA	1.81	0.78
1:B:154:ASP:CB	1:B:155:PRO:HD2	2.13	0.78
1:B:155:PRO:C	1:B:157:GLU:H	1.86	0.78
1:B:222:ASP:OD1	1:B:222:ASP:C	2.20	0.78
1:D:232:GLU:HG3	1:D:290:PHE:N	1.98	0.78
1:C:234:GLU:H	1:C:235:ILE:CG2	1.92	0.78
1:C:501:GLN:HG2	1:C:501:GLN:O	1.84	0.78
1:A:524:VAL:CG2	2:A:904:NAG:H81	2.14	0.78
2:A:904:NAG:O7	2:A:904:NAG:H3	1.82	0.78
1:B:238:GLU:HA	1:B:283:THR:HG22	1.66	0.78
1:B:496:LEU:HD21	1:B:509:ILE:HD13	1.63	0.78
2:B:809:NAG:H61	2:B:810:NAG:H62	1.65	0.78
1:C:147:SER:OG	1:C:167:ARG:CG	2.32	0.78
1:A:195:ASP:HB3	1:A:200:GLY:HA3	1.65	0.78
1:B:156:GLU:HG3	1:B:160:PRO:HB3	1.66	0.78
1:A:156:GLU:HG3	1:A:160:PRO:HB3	1.66	0.78
1:B:485:ALA:O	1:B:486:GLU:CG	2.30	0.78
1:A:365:GLN:HG3	1:A:365:GLN:O	1.82	0.78
1:A:396:ARG:HD3	1:A:431:LEU:C	2.03	0.78
1:D:222:ASP:OD1	1:D:222:ASP:C	2.20	0.78
1:A:194:THR:HB	1:A:198:GLY:HA2	1.66	0.77
1:C:156:GLU:HG3	1:C:160:PRO:HB3	1.66	0.77
1:C:485:ALA:O	1:C:486:GLU:CG	2.30	0.77
1:D:127:VAL:HG13	1:D:128:MET:H	1.46	0.77
2:D:809:NAG:H61	2:D:810:NAG:H62	1.65	0.77
1:A:93:GLU:O	1:B:2:TRP:O	2.01	0.77
1:B:449:ASP:HB3	1:B:532:CYS:H	1.47	0.77
1:B:501:GLN:O	1:B:501:GLN:HG2	1.84	0.77
1:C:371:ILE:HD11	1:C:381:VAL:HG11	1.64	0.77
1:C:524:VAL:CG2	2:C:904:NAG:H81	2.14	0.77
1:D:223:PRO:HD2	1:D:226:TYR:OH	1.85	0.77
1:C:301:THR:HG21	2:C:805:NAG:C8	2.12	0.77
1:D:290:PHE:HZ	1:D:296:TYR:HH	1.29	0.77
1:A:505:GLY:C	1:A:506:ASP:OD1	2.23	0.77
1:B:194:THR:HB	1:B:198:GLY:HA2	1.67	0.77
1:B:362:GLN:O	1:B:364:ILE:HG23	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:371:ILE:HD11	1:B:381:VAL:HG11	1.64	0.77
1:C:223:PRO:HD2	1:C:226:TYR:OH	1.85	0.77
1:D:432:ASP:CG	1:D:464:ILE:HG22	2.05	0.77
1:A:501:GLN:HG2	1:A:501:GLN:O	1.84	0.77
1:C:147:SER:OG	1:C:167:ARG:CD	2.32	0.77
1:C:505:GLY:C	1:C:506:ASP:OD1	2.23	0.77
1:D:238:GLU:HA	1:D:283:THR:HG22	1.66	0.77
1:A:1:ASP:O	1:B:94:ILE:C	2.23	0.77
1:B:223:PRO:HD2	1:B:226:TYR:OH	1.85	0.77
1:B:524:VAL:CG2	2:B:904:NAG:H81	2.14	0.77
1:D:195:ASP:HB3	1:D:200:GLY:HA3	1.65	0.77
1:D:362:GLN:O	1:D:364:ILE:HG23	1.85	0.77
1:D:501:GLN:O	1:D:501:GLN:HG2	1.84	0.77
1:D:505:GLY:C	1:D:506:ASP:OD1	2.23	0.77
1:A:147:SER:OG	1:A:167:ARG:CG	2.32	0.77
1:A:238:GLU:HA	1:A:283:THR:HG22	1.66	0.77
1:A:366:LYS:CG	1:A:367:LEU:N	2.48	0.77
1:B:147:SER:OG	1:B:167:ARG:CD	2.32	0.77
1:B:196:LEU:HB2	1:B:199:ALA:HB3	1.67	0.77
1:D:27:ASN:HD22	1:D:27:ASN:C	1.85	0.77
1:B:540:GLN:O	1:B:540:GLN:CG	2.31	0.77
1:C:362:GLN:O	1:C:364:ILE:HG23	1.85	0.77
1:D:301:THR:HG21	2:D:805:NAG:C8	2.13	0.77
1:D:366:LYS:CG	1:D:367:LEU:N	2.48	0.77
2:A:809:NAG:H61	2:A:810:NAG:H62	1.65	0.76
1:B:27:ASN:HD22	1:B:27:ASN:C	1.85	0.76
1:C:195:ASP:HB3	1:C:200:GLY:HA3	1.65	0.76
1:C:196:LEU:HB2	1:C:199:ALA:HB3	1.67	0.76
1:A:432:ASP:CG	1:A:464:ILE:HG22	2.05	0.76
1:C:27:ASN:HD21	1:D:90:GLU:HB2	1.46	0.76
1:A:196:LEU:HB2	1:A:199:ALA:HB3	1.67	0.76
1:A:362:GLN:O	1:A:364:ILE:HG23	1.85	0.76
1:B:290:PHE:HD2	1:B:293:ARG:H	1.28	0.76
1:D:524:VAL:CG2	2:D:904:NAG:H81	2.14	0.76
1:A:147:SER:OG	1:A:167:ARG:CD	2.32	0.76
1:A:449:ASP:HB3	1:A:532:CYS:H	1.47	0.76
1:C:186:GLU:O	2:C:801:NAG:O7	2.03	0.76
1:D:241:ARG:HE	1:D:281:ILE:HD12	1.51	0.76
1:D:365:GLN:HG3	1:D:365:GLN:O	1.82	0.76
1:B:272:THR:HG22	1:B:273:THR:H	1.51	0.76
1:B:368:SER:HG	1:B:370:PHE:HE1	1.31	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:482:THR:CG2	1:B:499:THR:CG2	2.62	0.76
1:B:505:GLY:C	1:B:506:ASP:OD1	2.23	0.76
1:A:482:THR:CG2	1:A:499:THR:CG2	2.62	0.76
1:B:432:ASP:CG	1:B:464:ILE:HG22	2.05	0.76
1:C:194:THR:HB	1:C:198:GLY:HA2	1.67	0.76
1:A:186:GLU:O	2:A:801:NAG:O7	2.03	0.76
1:A:223:PRO:HD2	1:A:226:TYR:OH	1.85	0.76
1:A:272:THR:HG22	1:A:273:THR:H	1.51	0.76
1:B:440:PRO:HB3	1:B:457:LEU:HD21	1.67	0.76
1:B:523:THR:HG23	1:B:524:VAL:HG22	1.67	0.76
1:C:272:THR:HG22	1:C:273:THR:H	1.51	0.76
1:D:156:GLU:HG3	1:D:160:PRO:HB3	1.66	0.76
1:C:1:ASP:N	1:D:26:SER:O	2.19	0.76
1:B:188:THR:HG23	1:B:208:ILE:CG1	2.16	0.76
1:C:371:ILE:HD12	1:C:410:MET:HB3	1.68	0.76
1:C:523:THR:HG23	1:C:524:VAL:HG22	1.67	0.76
1:B:396:ARG:HH21	1:B:464:ILE:CG2	1.98	0.75
1:C:448:CYS:SG	1:C:537:ILE:HG22	2.26	0.75
1:D:440:PRO:HB3	1:D:457:LEU:HD21	1.67	0.75
1:D:482:THR:CG2	1:D:499:THR:CG2	2.62	0.75
1:A:523:THR:HG23	1:A:524:VAL:HG22	1.67	0.75
1:C:366:LYS:CG	1:C:367:LEU:N	2.48	0.75
1:C:440:PRO:HB3	1:C:457:LEU:HD21	1.67	0.75
1:D:272:THR:HG22	1:D:273:THR:H	1.51	0.75
1:A:523:THR:CG2	1:A:524:VAL:N	2.46	0.75
1:C:364:ILE:O	1:C:364:ILE:HG13	1.87	0.75
1:C:432:ASP:CG	1:C:464:ILE:HG22	2.05	0.75
1:D:186:GLU:O	2:D:801:NAG:O7	2.03	0.75
1:D:290:PHE:CD2	1:D:293:ARG:N	2.55	0.75
1:A:448:CYS:SG	1:A:537:ILE:HG22	2.27	0.75
1:D:523:THR:HG23	1:D:524:VAL:HG22	1.67	0.75
1:A:449:ASP:HB3	1:A:532:CYS:N	2.02	0.75
1:B:396:ARG:NH2	1:B:464:ILE:HB	2.02	0.75
1:C:449:ASP:HB3	1:C:532:CYS:N	2.02	0.75
1:A:188:THR:HG23	1:A:208:ILE:CG1	2.16	0.75
1:A:371:ILE:HD12	1:A:410:MET:HB3	1.68	0.75
1:B:448:CYS:SG	1:B:537:ILE:HG22	2.26	0.75
1:D:194:THR:HB	1:D:198:GLY:HA2	1.67	0.75
1:B:449:ASP:HB3	1:B:532:CYS:N	2.02	0.74
1:D:448:CYS:SG	1:D:537:ILE:HG22	2.27	0.74
1:D:449:ASP:HB3	1:D:532:CYS:N	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:GLU:O	2:B:801:NAG:O7	2.03	0.74
1:B:301:THR:HG21	2:B:805:NAG:C8	2.12	0.74
1:D:188:THR:HG23	1:D:208:ILE:CG1	2.16	0.74
1:A:440:PRO:HB3	1:A:457:LEU:HD21	1.67	0.74
1:B:241:ARG:HE	1:B:281:ILE:HD12	1.51	0.74
1:C:396:ARG:HH21	1:C:464:ILE:CG2	1.99	0.74
1:A:2:TRP:CE2	1:B:95:THR:OG1	2.32	0.74
1:A:92:MET:HE1	1:B:3:VAL:HG13	1.69	0.74
1:A:396:ARG:NH2	1:A:464:ILE:HB	2.02	0.74
1:C:241:ARG:HE	1:C:281:ILE:HD12	1.51	0.74
1:C:450:GLN:HG3	1:C:533:GLU:OE2	1.88	0.74
1:C:523:THR:CG2	1:C:524:VAL:N	2.46	0.74
1:A:289:ASP:O	1:A:290:PHE:CB	2.25	0.74
1:B:450:GLN:HG3	1:B:533:GLU:OE2	1.88	0.74
1:A:450:GLN:HG3	1:A:533:GLU:OE2	1.88	0.74
1:D:451:ASN:O	1:D:534:GLY:HA2	1.88	0.74
1:D:196:LEU:HB2	1:D:199:ALA:HB3	1.67	0.74
1:B:451:ASN:O	1:B:534:GLY:HA2	1.88	0.74
1:D:396:ARG:HH21	1:D:464:ILE:CG2	1.98	0.74
1:A:333:VAL:CB	1:A:334:PRO:HD3	2.18	0.74
1:A:241:ARG:HE	1:A:281:ILE:HD12	1.51	0.73
1:D:371:ILE:HD12	1:D:410:MET:HB3	1.68	0.73
1:B:333:VAL:CB	1:B:334:PRO:HD3	2.18	0.73
1:D:298:LEU:N	1:D:298:LEU:HD23	2.03	0.73
1:D:320:THR:CG2	2:D:807:NAG:HN2	2.01	0.73
1:A:290:PHE:HE2	1:A:293:ARG:HB2	1.52	0.73
1:A:290:PHE:CD2	1:A:293:ARG:N	2.55	0.73
1:A:320:THR:CG2	2:A:807:NAG:HN2	2.02	0.73
1:B:371:ILE:HD12	1:B:410:MET:HB3	1.68	0.73
1:C:290:PHE:HZ	1:C:296:TYR:HH	1.35	0.73
1:D:364:ILE:O	1:D:364:ILE:HG13	1.87	0.73
1:A:5:PRO:N	1:B:5:PRO:HG3	2.02	0.73
1:A:223:PRO:HB2	1:A:226:TYR:CE2	2.23	0.73
1:D:450:GLN:HG3	1:D:533:GLU:OE2	1.88	0.73
1:A:364:ILE:O	1:A:364:ILE:HG13	1.87	0.73
1:B:364:ILE:HG13	1:B:364:ILE:O	1.87	0.73
1:B:366:LYS:CG	1:B:367:LEU:N	2.48	0.73
1:C:276:GLU:HG3	1:C:277:SER:H	1.54	0.73
1:C:451:ASN:O	1:C:534:GLY:HA2	1.88	0.73
1:C:273:THR:O	2:C:803:NAG:H82	1.89	0.73
1:D:368:SER:HG	1:D:370:PHE:HE1	1.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:ILE:O	1:A:364:ILE:CG1	2.37	0.73
1:C:298:LEU:HD23	1:C:298:LEU:N	2.03	0.73
1:C:396:ARG:NH2	1:C:464:ILE:HB	2.02	0.73
1:D:335:ALA:HB1	3:D:811:NDG:H6	1.54	0.73
1:D:373:ASN:ND2	1:D:374:ASP:H	1.87	0.73
1:B:474:SER:CB	1:B:512:LEU:HG	2.14	0.73
1:C:188:THR:HG23	1:C:208:ILE:CG1	2.16	0.73
1:D:333:VAL:CB	1:D:334:PRO:HD3	2.18	0.73
1:D:342:SER:HA	1:D:431:LEU:HB2	1.71	0.73
1:A:373:ASN:ND2	1:A:374:ASP:H	1.87	0.73
1:A:396:ARG:HH21	1:A:464:ILE:CG2	1.98	0.73
1:B:298:LEU:N	1:B:298:LEU:HD23	2.03	0.73
1:C:223:PRO:HB2	1:C:226:TYR:CE2	2.23	0.73
1:C:290:PHE:CD2	1:C:293:ARG:N	2.55	0.73
1:A:451:ASN:O	1:A:534:GLY:HA2	1.88	0.72
1:B:223:PRO:HB2	1:B:226:TYR:CE2	2.24	0.72
1:C:333:VAL:CB	1:C:334:PRO:HD3	2.18	0.72
1:C:511:VAL:HG23	1:C:523:THR:O	1.89	0.72
1:A:298:LEU:N	1:A:298:LEU:HD23	2.03	0.72
1:C:368:SER:HG	1:C:370:PHE:HE1	1.35	0.72
1:D:364:ILE:O	1:D:364:ILE:CG1	2.37	0.72
1:A:273:THR:O	2:A:803:NAG:H82	1.89	0.72
1:D:396:ARG:NH2	1:D:464:ILE:HB	2.02	0.72
1:A:24:ILE:CD1	1:B:1:ASP:H2	2.02	0.72
1:C:290:PHE:HE2	1:C:293:ARG:HB2	1.52	0.72
1:A:342:SER:HA	1:A:431:LEU:HB2	1.71	0.72
1:B:276:GLU:HG3	1:B:277:SER:H	1.54	0.72
1:D:523:THR:CG2	1:D:524:VAL:N	2.46	0.72
1:A:33:LYS:HB3	1:A:83:GLU:HG2	1.71	0.72
1:B:364:ILE:O	1:B:364:ILE:CG1	2.37	0.72
1:C:23:GLN:HG2	1:D:3:VAL:HG21	1.71	0.72
1:C:364:ILE:O	1:C:364:ILE:CG1	2.37	0.72
1:C:373:ASN:ND2	1:C:374:ASP:H	1.87	0.72
1:D:273:THR:O	2:D:803:NAG:H82	1.89	0.72
1:D:320:THR:CG2	2:D:807:NAG:N2	2.51	0.72
1:D:511:VAL:HG23	1:D:523:THR:O	1.89	0.72
1:B:273:THR:O	2:B:803:NAG:H82	1.89	0.72
1:D:394:LEU:HD12	1:D:394:LEU:N	2.05	0.72
1:B:320:THR:CG2	2:B:807:NAG:N2	2.52	0.72
1:B:394:LEU:N	1:B:394:LEU:HD12	2.05	0.72
1:B:511:VAL:HG23	1:B:523:THR:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:511:VAL:HG23	1:A:523:THR:O	1.89	0.72
1:B:276:GLU:CG	1:B:277:SER:H	2.03	0.72
1:B:320:THR:CG2	2:B:807:NAG:HN2	2.01	0.72
1:D:223:PRO:HB2	1:D:226:TYR:CE2	2.23	0.72
1:D:290:PHE:HE2	1:D:293:ARG:HB2	1.52	0.71
1:A:366:LYS:HG3	1:A:367:LEU:N	2.04	0.71
1:D:33:LYS:HB3	1:D:83:GLU:HG2	1.71	0.71
1:D:276:GLU:HG3	1:D:277:SER:H	1.54	0.71
1:A:320:THR:CG2	2:A:807:NAG:N2	2.52	0.71
1:B:373:ASN:ND2	1:B:374:ASP:H	1.87	0.71
1:A:90:GLU:OE2	1:B:88:VAL:O	2.09	0.71
1:B:33:LYS:HB3	1:B:83:GLU:HG2	1.71	0.71
1:B:290:PHE:HE2	1:B:293:ARG:HB2	1.52	0.71
1:D:414:ASP:HB3	1:D:420:GLY:HA3	1.73	0.71
1:D:434:ASN:OD1	1:D:467:ASN:HB3	1.91	0.71
1:A:276:GLU:HG3	1:A:277:SER:H	1.54	0.71
1:C:394:LEU:HD12	1:C:394:LEU:N	2.05	0.71
1:B:434:ASN:OD1	1:B:467:ASN:HB3	1.91	0.71
1:A:4:ILE:HD13	1:B:3:VAL:N	2.06	0.71
1:A:394:LEU:HD12	1:A:394:LEU:N	2.05	0.71
1:B:523:THR:CG2	1:B:524:VAL:N	2.46	0.71
1:C:320:THR:CG2	2:C:807:NAG:N2	2.52	0.71
1:C:414:ASP:HB3	1:C:420:GLY:HA3	1.73	0.71
1:A:187:TYR:HA	2:A:801:NAG:C7	2.21	0.71
1:A:403:ASN:CB	2:A:902:NAG:N2	2.54	0.71
1:C:276:GLU:CG	1:C:277:SER:H	2.03	0.71
1:C:320:THR:CG2	2:C:807:NAG:HN2	2.02	0.71
1:D:403:ASN:CB	2:D:902:NAG:N2	2.54	0.71
1:A:276:GLU:CG	1:A:277:SER:H	2.03	0.71
1:A:316:THR:O	2:A:806:NAG:H82	1.91	0.71
1:B:187:TYR:HA	2:B:801:NAG:C7	2.21	0.71
1:B:405:THR:OG1	1:B:406:TYR:N	2.22	0.70
1:B:414:ASP:HB3	1:B:420:GLY:HA3	1.73	0.70
1:B:483:TRP:CZ2	1:B:507:TYR:HE1	2.09	0.70
1:C:33:LYS:HB3	1:C:83:GLU:HG2	1.71	0.70
1:A:523:THR:HG23	1:A:524:VAL:HG23	1.74	0.70
1:B:337:SER:CA	1:B:427:ILE:HG23	2.20	0.70
1:C:403:ASN:CB	2:C:902:NAG:N2	2.54	0.70
1:C:434:ASN:OD1	1:C:467:ASN:HB3	1.91	0.70
1:D:289:ASP:O	1:D:289:ASP:CG	2.30	0.70
1:A:92:MET:CE	1:B:3:VAL:HG13	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:276:GLU:CG	1:D:277:SER:H	2.03	0.70
1:D:474:SER:CB	1:D:512:LEU:HG	2.14	0.70
1:D:483:TRP:CZ2	1:D:507:TYR:HE1	2.09	0.70
1:B:342:SER:HA	1:B:431:LEU:HB2	1.71	0.70
1:C:485:ALA:C	1:C:486:GLU:HG2	2.11	0.70
1:D:485:ALA:C	1:D:486:GLU:HG2	2.11	0.70
1:B:316:THR:O	2:B:806:NAG:H82	1.91	0.70
1:B:403:ASN:CB	2:B:902:NAG:N2	2.54	0.70
1:C:337:SER:CA	1:C:427:ILE:HG23	2.20	0.70
1:D:405:THR:OG1	1:D:406:TYR:N	2.22	0.70
1:C:482:THR:CG2	1:C:499:THR:CG2	2.62	0.70
1:C:483:TRP:CZ2	1:C:507:TYR:HE1	2.09	0.70
1:D:227:THR:O	2:D:812:NAG:O5	2.09	0.70
1:A:414:ASP:HB3	1:A:420:GLY:HA3	1.73	0.70
1:B:290:PHE:CD2	1:B:293:ARG:N	2.55	0.70
1:C:227:THR:O	2:C:812:NAG:O5	2.09	0.70
1:D:187:TYR:HA	2:D:801:NAG:C7	2.21	0.70
1:D:316:THR:O	2:D:806:NAG:H82	1.91	0.70
1:B:485:ALA:C	1:B:486:GLU:HG2	2.11	0.70
1:C:342:SER:HA	1:C:431:LEU:HB2	1.71	0.70
1:C:474:SER:CB	1:C:512:LEU:HG	2.14	0.70
1:B:227:THR:O	2:B:812:NAG:O5	2.09	0.70
1:C:523:THR:HG23	1:C:524:VAL:HG23	1.74	0.70
1:A:90:GLU:H	1:B:90:GLU:HB3	1.55	0.70
1:A:483:TRP:CZ2	1:A:507:TYR:HE1	2.09	0.70
1:D:229:LEU:HD23	1:D:322:THR:HB	1.73	0.70
1:D:523:THR:HG23	1:D:524:VAL:HG23	1.74	0.70
1:A:3:VAL:C	1:B:3:VAL:CB	2.60	0.69
1:A:485:ALA:C	1:A:486:GLU:HG2	2.11	0.69
1:A:434:ASN:OD1	1:A:467:ASN:HB3	1.91	0.69
1:A:227:THR:O	2:A:812:NAG:O5	2.09	0.69
1:C:289:ASP:O	1:C:289:ASP:CG	2.29	0.69
1:C:316:THR:O	2:C:806:NAG:H82	1.91	0.69
1:C:474:SER:HB2	1:C:512:LEU:CG	2.15	0.69
1:D:186:GLU:OE1	2:D:801:NAG:H62	1.93	0.69
1:A:221:PHE:CE1	1:A:315:SER:O	2.45	0.69
1:B:53:ILE:HG13	1:B:59:TRP:O	1.93	0.69
1:C:438:PRO:HB3	1:C:471:TYR:CE2	2.26	0.69
1:B:438:PRO:HB3	1:B:471:TYR:CE2	2.26	0.69
1:A:186:GLU:OE1	2:A:801:NAG:H62	1.93	0.69
1:B:186:GLU:OE1	2:B:801:NAG:H62	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:LEU:HD23	1:B:322:THR:HB	1.73	0.69
1:B:366:LYS:HG3	1:B:367:LEU:N	2.04	0.69
1:C:27:ASN:ND2	1:C:27:ASN:C	2.46	0.69
1:C:187:TYR:HA	2:C:801:NAG:C7	2.21	0.69
1:C:221:PHE:CE1	1:C:315:SER:O	2.45	0.69
1:C:229:LEU:HD23	1:C:322:THR:HB	1.73	0.69
1:C:405:THR:OG1	1:C:406:TYR:N	2.22	0.69
1:C:53:ILE:HG13	1:C:59:TRP:O	1.93	0.69
1:C:94:ILE:HG21	1:D:2:TRP:HH2	1.57	0.69
1:D:242:LEU:HD12	1:D:280:GLY:O	1.93	0.69
1:A:27:ASN:C	1:A:27:ASN:ND2	2.46	0.69
1:A:282:LEU:HD23	1:A:283:THR:H	1.58	0.69
1:B:282:LEU:HD23	1:B:283:THR:H	1.58	0.69
1:B:523:THR:HG23	1:B:524:VAL:HG23	1.74	0.69
1:C:242:LEU:HD12	1:C:280:GLY:O	1.93	0.69
1:B:482:THR:HG21	1:B:500:GLN:H	1.59	0.68
1:C:92:MET:HB3	1:D:2:TRP:CD1	2.28	0.68
1:A:229:LEU:HD23	1:A:322:THR:HB	1.73	0.68
1:A:482:THR:HG21	1:A:500:GLN:H	1.58	0.68
1:C:186:GLU:OE1	2:C:801:NAG:H62	1.93	0.68
1:D:1:ASP:CG	1:D:2:TRP:H	1.96	0.68
1:A:53:ILE:HG13	1:A:59:TRP:O	1.93	0.68
1:B:272:THR:HG22	1:B:273:THR:N	2.09	0.68
1:C:282:LEU:HD23	1:C:283:THR:N	2.08	0.68
1:C:396:ARG:HD3	1:C:431:LEU:O	1.94	0.68
1:D:320:THR:HG21	2:D:807:NAG:H2	1.76	0.68
1:A:272:THR:HG22	1:A:273:THR:N	2.09	0.68
1:A:405:THR:OG1	1:A:406:TYR:N	2.22	0.68
1:D:396:ARG:HE	1:D:432:ASP:HB2	1.57	0.68
1:A:289:ASP:O	1:A:289:ASP:CG	2.29	0.68
1:A:438:PRO:HB3	1:A:471:TYR:CE2	2.26	0.68
1:B:282:LEU:HD23	1:B:283:THR:N	2.08	0.68
1:B:155:PRO:HB2	2:B:801:NAG:C8	2.24	0.68
1:C:396:ARG:HE	1:C:432:ASP:HB2	1.57	0.68
1:A:155:PRO:HB2	2:A:801:NAG:C8	2.24	0.68
1:B:242:LEU:HD12	1:B:280:GLY:O	1.93	0.68
1:D:371:ILE:CG2	1:D:372:GLY:N	2.57	0.68
1:A:137:ASP:OD2	1:A:139:ILE:HG22	1.94	0.68
1:A:320:THR:HG21	2:A:807:NAG:H2	1.76	0.68
1:B:221:PHE:CE1	1:B:315:SER:O	2.45	0.68
1:D:438:PRO:HB3	1:D:471:TYR:CE2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:517:GLN:C	1:D:519:ASN:N	2.47	0.68
1:A:222:ASP:O	1:A:222:ASP:CG	2.32	0.68
1:B:371:ILE:CG2	1:B:372:GLY:N	2.57	0.68
1:B:517:GLN:C	1:B:519:ASN:N	2.46	0.68
1:C:371:ILE:CG2	1:C:372:GLY:N	2.57	0.68
1:D:440:PRO:HA	1:D:458:THR:O	1.94	0.68
1:A:242:LEU:HD12	1:A:280:GLY:O	1.93	0.68
1:A:282:LEU:HD23	1:A:283:THR:N	2.08	0.68
1:D:290:PHE:HZ	1:D:296:TYR:OH	1.77	0.68
1:A:474:SER:HB2	1:A:512:LEU:CG	2.15	0.67
1:B:333:VAL:HB	1:B:334:PRO:CD	2.24	0.67
1:B:396:ARG:HE	1:B:432:ASP:CB	2.07	0.67
1:C:155:PRO:HB2	2:C:801:NAG:C8	2.24	0.67
1:C:282:LEU:HD23	1:C:283:THR:H	1.58	0.67
1:D:53:ILE:HG13	1:D:59:TRP:O	1.93	0.67
1:D:396:ARG:HD3	1:D:431:LEU:O	1.94	0.67
1:A:1:ASP:CG	1:A:2:TRP:H	1.96	0.67
1:A:337:SER:CA	1:A:427:ILE:HG23	2.20	0.67
1:A:423:THR:HB	2:A:810:NAG:C8	2.24	0.67
1:B:1:ASP:CG	1:B:2:TRP:H	1.96	0.67
1:B:137:ASP:OD2	1:B:139:ILE:HG22	1.94	0.67
1:C:440:PRO:HA	1:C:458:THR:O	1.94	0.67
1:C:272:THR:HG22	1:C:273:THR:N	2.09	0.67
1:D:195:ASP:HB2	1:D:201:LEU:N	2.08	0.67
1:A:396:ARG:NH2	1:A:464:ILE:CB	2.58	0.67
1:D:155:PRO:HB2	2:D:801:NAG:C8	2.24	0.67
1:D:272:THR:HG22	1:D:273:THR:N	2.09	0.67
1:D:282:LEU:HD23	1:D:283:THR:N	2.08	0.67
1:D:482:THR:HG21	1:D:500:GLN:H	1.59	0.67
1:A:373:ASN:ND2	1:A:374:ASP:N	2.43	0.67
2:B:902:NAG:H3	2:B:902:NAG:O7	1.95	0.67
1:C:289:ASP:O	1:C:290:PHE:CB	2.25	0.67
1:A:347:ARG:CD	1:A:392:GLY:H	2.07	0.67
1:B:347:ARG:CG	1:B:392:GLY:H	2.08	0.67
1:B:373:ASN:ND2	1:B:374:ASP:N	2.43	0.67
1:B:440:PRO:HA	1:B:458:THR:O	1.94	0.67
1:A:347:ARG:CG	1:A:392:GLY:H	2.08	0.67
1:A:371:ILE:CG2	1:A:372:GLY:N	2.57	0.67
1:B:401:VAL:HG13	1:B:405:THR:O	1.95	0.67
1:C:290:PHE:HZ	1:C:296:TYR:OH	1.77	0.67
1:D:27:ASN:C	1:D:27:ASN:ND2	2.46	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:137:ASP:OD2	1:D:139:ILE:HG22	1.94	0.67
1:D:337:SER:CA	1:D:427:ILE:HG23	2.20	0.67
1:D:347:ARG:CG	1:D:392:GLY:H	2.08	0.67
1:D:396:ARG:HE	1:D:432:ASP:CB	2.07	0.67
1:D:401:VAL:HG13	1:D:405:THR:O	1.95	0.67
1:D:423:THR:HB	2:D:810:NAG:C8	2.24	0.67
1:A:474:SER:CB	1:A:512:LEU:HG	2.14	0.67
1:C:195:ASP:HB2	1:C:201:LEU:N	2.08	0.67
1:C:396:ARG:NH2	1:C:464:ILE:CB	2.58	0.67
1:C:401:VAL:HG13	1:C:405:THR:O	1.95	0.67
1:D:474:SER:HB2	1:D:512:LEU:CG	2.15	0.67
1:A:396:ARG:HE	1:A:432:ASP:HB2	1.57	0.67
1:B:403:ASN:HB2	2:B:902:NAG:N2	2.10	0.67
1:C:333:VAL:HB	1:C:334:PRO:CD	2.24	0.67
1:C:396:ARG:HE	1:C:432:ASP:CB	2.07	0.67
1:D:32:ASN:CG	1:D:33:LYS:H	1.99	0.67
1:D:187:TYR:HA	2:D:801:NAG:C8	2.25	0.67
1:D:373:ASN:ND2	1:D:374:ASP:N	2.43	0.67
2:A:902:NAG:H3	2:A:902:NAG:O7	1.95	0.67
1:B:320:THR:HG21	2:B:807:NAG:H2	1.76	0.67
1:B:396:ARG:HE	1:B:432:ASP:HB2	1.57	0.67
1:B:423:THR:HB	2:B:810:NAG:C8	2.24	0.67
1:A:396:ARG:HD3	1:A:431:LEU:O	1.94	0.66
1:A:403:ASN:HB2	2:A:902:NAG:N2	2.10	0.66
1:A:440:PRO:HA	1:A:458:THR:O	1.94	0.66
1:C:347:ARG:CD	1:C:392:GLY:H	2.07	0.66
1:D:222:ASP:O	1:D:222:ASP:CG	2.32	0.66
1:A:187:TYR:HA	2:A:801:NAG:C8	2.25	0.66
1:B:187:TYR:HA	2:B:801:NAG:C8	2.25	0.66
1:B:524:VAL:HG21	2:B:904:NAG:H81	1.77	0.66
1:C:187:TYR:HA	2:C:801:NAG:C8	2.25	0.66
1:C:423:THR:HB	2:C:810:NAG:C8	2.24	0.66
1:C:482:THR:HG21	1:C:500:GLN:H	1.59	0.66
1:D:446:THR:CG2	1:D:537:ILE:O	2.44	0.66
1:A:290:PHE:HZ	1:A:296:TYR:OH	1.77	0.66
1:A:396:ARG:HE	1:A:432:ASP:CB	2.07	0.66
1:A:401:VAL:HG13	1:A:405:THR:O	1.95	0.66
1:B:464:ILE:O	1:B:467:ASN:HB2	1.96	0.66
1:A:195:ASP:HB2	1:A:201:LEU:N	2.08	0.66
1:A:524:VAL:HG21	2:A:904:NAG:H81	1.76	0.66
1:B:524:VAL:HG23	2:B:904:NAG:H81	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:366:LYS:HG3	1:C:367:LEU:HG	1.77	0.66
1:C:464:ILE:O	1:C:467:ASN:HB2	1.96	0.66
1:A:347:ARG:HD2	1:A:392:GLY:H	1.60	0.66
1:B:32:ASN:CG	1:B:33:LYS:H	1.98	0.66
1:B:396:ARG:HD3	1:B:431:LEU:O	1.94	0.66
1:C:137:ASP:OD2	1:C:139:ILE:HG22	1.94	0.66
1:C:222:ASP:O	1:C:222:ASP:CG	2.32	0.66
1:C:320:THR:HG21	2:C:807:NAG:H2	1.76	0.66
2:C:902:NAG:O7	2:C:902:NAG:H3	1.95	0.66
1:D:347:ARG:CD	1:D:392:GLY:H	2.07	0.66
1:B:224:LYS:HE3	1:B:316:THR:O	1.95	0.66
1:B:347:ARG:CD	1:B:392:GLY:H	2.07	0.66
1:B:347:ARG:HD2	1:B:392:GLY:H	1.60	0.66
1:C:524:VAL:HG21	2:C:904:NAG:H81	1.77	0.66
1:D:396:ARG:NH2	1:D:464:ILE:CB	2.58	0.66
1:B:232:GLU:HG2	1:B:289:ASP:HA	1.77	0.66
1:C:373:ASN:ND2	1:C:374:ASP:N	2.43	0.66
1:D:440:PRO:HD2	1:D:522:LEU:CD1	2.26	0.66
1:A:224:LYS:HE3	1:A:316:THR:O	1.95	0.66
1:A:366:LYS:HG3	1:A:367:LEU:HG	1.77	0.66
1:A:446:THR:CG2	1:A:537:ILE:O	2.44	0.66
1:B:289:ASP:O	1:B:289:ASP:CG	2.29	0.66
2:B:809:NAG:C6	2:B:810:NAG:H62	2.26	0.66
1:C:446:THR:CG2	1:C:537:ILE:O	2.44	0.66
1:A:32:ASN:CG	1:A:33:LYS:H	1.99	0.66
1:A:482:THR:OG1	1:A:500:GLN:CG	2.44	0.66
1:B:440:PRO:HD3	1:B:522:LEU:HD12	1.78	0.66
1:C:32:ASN:CG	1:C:33:LYS:H	1.99	0.66
1:C:224:LYS:HE3	1:C:316:THR:O	1.95	0.66
1:C:347:ARG:CG	1:C:392:GLY:H	2.08	0.66
1:C:524:VAL:HG23	2:C:904:NAG:H81	1.78	0.66
1:D:224:LYS:HE3	1:D:316:THR:O	1.95	0.66
1:A:464:ILE:O	1:A:467:ASN:HB2	1.96	0.66
1:B:222:ASP:O	1:B:222:ASP:CG	2.32	0.66
1:C:1:ASP:CA	1:D:26:SER:C	2.61	0.66
1:D:32:ASN:ND2	1:D:83:GLU:N	2.44	0.66
1:B:27:ASN:C	1:B:27:ASN:ND2	2.46	0.65
1:B:482:THR:OG1	1:B:500:GLN:CG	2.44	0.65
1:C:1:ASP:CG	1:D:26:SER:CA	2.56	0.65
2:C:809:NAG:C6	2:C:810:NAG:H62	2.26	0.65
1:D:282:LEU:HD23	1:D:283:THR:H	1.58	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:524:VAL:HG21	2:D:904:NAG:H81	1.76	0.65
1:A:440:PRO:HD2	1:A:522:LEU:CD1	2.26	0.65
1:B:195:ASP:HB2	1:B:201:LEU:N	2.08	0.65
1:B:396:ARG:NH2	1:B:464:ILE:CB	2.58	0.65
2:C:805:NAG:C6	2:C:806:NAG:C7	2.74	0.65
1:A:24:ILE:HD12	1:B:1:ASP:H2	1.61	0.65
1:A:232:GLU:HG2	1:A:289:ASP:HA	1.77	0.65
1:A:333:VAL:HB	1:A:334:PRO:CD	2.24	0.65
1:C:403:ASN:HB2	2:C:902:NAG:N2	2.10	0.65
1:D:232:GLU:HG2	1:D:289:ASP:HA	1.77	0.65
2:A:809:NAG:C6	2:A:810:NAG:H62	2.26	0.65
1:B:446:THR:CG2	1:B:537:ILE:O	2.44	0.65
1:C:1:ASP:CB	1:D:26:SER:CA	2.68	0.65
1:C:488:ASP:HB2	1:C:493:SER:OG	1.97	0.65
1:D:366:LYS:HG3	1:D:367:LEU:HG	1.77	0.65
1:D:403:ASN:HB2	2:D:902:NAG:N2	2.10	0.65
1:D:488:ASP:HB2	1:D:493:SER:OG	1.97	0.65
1:D:524:VAL:HG23	2:D:904:NAG:H81	1.78	0.65
2:D:904:NAG:O7	2:D:904:NAG:C3	2.45	0.65
1:A:32:ASN:ND2	1:A:83:GLU:N	2.44	0.65
1:A:488:ASP:HB2	1:A:493:SER:OG	1.97	0.65
1:B:290:PHE:HZ	1:B:296:TYR:OH	1.76	0.65
1:B:488:ASP:HB2	1:B:493:SER:OG	1.97	0.65
1:C:232:GLU:HG2	1:C:289:ASP:HA	1.77	0.65
1:C:482:THR:OG1	1:C:500:GLN:CG	2.44	0.65
1:C:517:GLN:C	1:C:519:ASN:N	2.47	0.65
1:D:464:ILE:O	1:D:467:ASN:HB2	1.96	0.65
2:D:902:NAG:H3	2:D:902:NAG:O7	1.95	0.65
1:B:341:VAL:HG21	1:B:345:LEU:HD12	1.79	0.65
1:C:265:GLU:HB3	1:C:268:PHE:CE2	2.31	0.65
1:C:347:ARG:HD2	1:C:392:GLY:H	1.60	0.65
1:D:333:VAL:HB	1:D:334:PRO:CD	2.24	0.65
1:B:366:LYS:HG3	1:B:367:LEU:HG	1.77	0.65
1:C:232:GLU:HG3	1:C:290:PHE:H	1.61	0.65
2:D:809:NAG:C6	2:D:810:NAG:H62	2.26	0.65
2:B:904:NAG:O7	2:B:904:NAG:C3	2.45	0.65
1:C:341:VAL:HG21	1:C:345:LEU:HD12	1.79	0.65
1:A:440:PRO:HD3	1:A:522:LEU:HD12	1.78	0.65
1:B:364:ILE:O	1:B:364:ILE:HD12	1.97	0.65
1:C:212:THR:HG22	1:C:213:ASP:H	1.62	0.65
1:C:327:ASN:HA	1:C:360:ASP:OD2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:440:PRO:HD3	1:C:522:LEU:HD12	1.78	0.65
1:D:327:ASN:HA	1:D:360:ASP:OD2	1.97	0.65
1:D:346:SER:OG	1:D:349:GLU:HG3	1.97	0.65
2:D:805:NAG:C6	2:D:806:NAG:C7	2.74	0.65
1:A:232:GLU:HG3	1:A:290:PHE:H	1.61	0.65
1:D:265:GLU:HB3	1:D:268:PHE:CE2	2.31	0.65
1:A:364:ILE:O	1:A:364:ILE:HD12	1.98	0.64
2:A:904:NAG:O7	2:A:904:NAG:C3	2.45	0.64
1:B:289:ASP:O	1:B:290:PHE:CB	2.25	0.64
1:B:347:ARG:HG3	1:B:392:GLY:H	1.62	0.64
1:B:469:TYR:CD2	1:B:470:PRO:CD	2.80	0.64
1:A:341:VAL:HG21	1:A:345:LEU:HD12	1.79	0.64
1:C:60:MET:SD	1:D:2:TRP:CH2	2.90	0.64
1:C:440:PRO:HD2	1:C:522:LEU:CD1	2.26	0.64
1:D:347:ARG:HD2	1:D:392:GLY:H	1.60	0.64
1:A:343:GLU:HB3	1:A:433:VAL:CG2	2.28	0.64
1:C:78:SER:N	1:D:2:TRP:HE1	1.96	0.64
1:B:212:THR:HG22	1:B:213:ASP:H	1.62	0.64
1:B:343:GLU:HB3	1:B:433:VAL:CG2	2.28	0.64
1:B:440:PRO:HD2	1:B:522:LEU:CD1	2.26	0.64
1:B:482:THR:HG21	1:B:499:THR:CA	2.27	0.64
1:D:212:THR:HG22	1:D:213:ASP:H	1.62	0.64
1:D:406:TYR:CE1	2:D:808:NAG:H83	2.32	0.64
1:A:2:TRP:CG	1:B:95:THR:OG1	2.50	0.64
1:A:327:ASN:HA	1:A:360:ASP:OD2	1.97	0.64
1:A:346:SER:OG	1:A:349:GLU:HG3	1.97	0.64
1:D:469:TYR:CD2	1:D:470:PRO:CD	2.80	0.64
1:D:482:THR:OG1	1:D:500:GLN:CG	2.44	0.64
1:A:212:THR:HG22	1:A:213:ASP:H	1.62	0.64
1:B:32:ASN:ND2	1:B:83:GLU:N	2.44	0.64
1:C:346:SER:OG	1:C:349:GLU:HG3	1.97	0.64
1:C:406:TYR:CE1	2:C:808:NAG:H83	2.32	0.64
1:A:469:TYR:CD2	1:A:470:PRO:CD	2.81	0.64
1:B:327:ASN:HA	1:B:360:ASP:OD2	1.97	0.64
1:B:406:TYR:CE1	2:B:808:NAG:H83	2.32	0.64
1:D:221:PHE:CE1	1:D:315:SER:O	2.45	0.64
1:D:341:VAL:HG21	1:D:345:LEU:HD12	1.79	0.64
1:D:375:PRO:HB3	1:D:400:TYR:CD2	2.33	0.64
1:D:504:LYS:NZ	1:D:531:SER:OG	2.31	0.64
1:A:375:PRO:HB3	1:A:400:TYR:CD2	2.33	0.64
1:A:446:THR:CG2	1:A:539:CYS:SG	2.86	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:518:ASN:O	1:C:520:PRO:CD	2.46	0.64
1:D:154:ASP:O	2:D:801:NAG:H82	1.98	0.64
1:D:227:THR:CG2	2:D:807:NAG:C7	2.76	0.64
1:D:409:ILE:HG12	1:D:425:THR:HG23	1.80	0.64
1:A:406:TYR:CE1	2:A:808:NAG:H83	2.32	0.64
1:A:524:VAL:HG23	2:A:904:NAG:H81	1.78	0.64
1:D:440:PRO:HD3	1:D:522:LEU:HD12	1.78	0.64
1:A:364:ILE:O	1:A:364:ILE:CD1	2.46	0.63
1:B:265:GLU:HB3	1:B:268:PHE:CE2	2.31	0.63
1:B:371:ILE:HG22	1:B:372:GLY:N	2.14	0.63
1:C:343:GLU:HB3	1:C:433:VAL:CG2	2.28	0.63
1:C:375:PRO:HB3	1:C:400:TYR:CD2	2.33	0.63
1:D:232:GLU:HG3	1:D:290:PHE:H	1.61	0.63
1:A:368:SER:HG	1:A:370:PHE:HE1	1.45	0.63
1:A:419:VAL:HG13	2:A:809:NAG:O7	1.98	0.63
1:B:403:ASN:CB	2:B:902:NAG:C7	2.76	0.63
1:C:154:ASP:O	2:C:801:NAG:H82	1.98	0.63
1:C:364:ILE:O	1:C:364:ILE:CD1	2.46	0.63
1:C:482:THR:HG21	1:C:499:THR:CA	2.27	0.63
1:D:343:GLU:HB3	1:D:433:VAL:CG2	2.28	0.63
1:D:364:ILE:O	1:D:364:ILE:HD12	1.97	0.63
1:D:446:THR:CG2	1:D:539:CYS:SG	2.86	0.63
1:A:22:VAL:HG22	1:A:23:GLN:N	2.14	0.63
1:A:347:ARG:HG3	1:A:392:GLY:H	1.62	0.63
1:A:409:ILE:HG12	1:A:425:THR:HG23	1.80	0.63
1:C:22:VAL:HG22	1:C:23:GLN:N	2.14	0.63
1:C:371:ILE:HG22	1:C:372:GLY:N	2.14	0.63
1:C:504:LYS:NZ	1:C:531:SER:OG	2.31	0.63
1:A:147:SER:OG	1:A:167:ARG:HG3	1.99	0.63
1:A:482:THR:HG22	1:A:499:THR:N	2.13	0.63
1:B:504:LYS:NZ	1:B:531:SER:OG	2.31	0.63
2:B:805:NAG:C6	2:B:806:NAG:C7	2.74	0.63
1:C:347:ARG:HG3	1:C:392:GLY:H	1.62	0.63
1:C:409:ILE:HG12	1:C:425:THR:HG23	1.80	0.63
1:C:446:THR:CG2	1:C:539:CYS:SG	2.86	0.63
1:A:482:THR:HG21	1:A:499:THR:CA	2.27	0.63
1:A:518:ASN:O	1:A:520:PRO:CD	2.46	0.63
1:A:523:THR:CG2	1:A:524:VAL:H	1.94	0.63
1:B:375:PRO:HB3	1:B:400:TYR:CD2	2.33	0.63
1:B:409:ILE:HG12	1:B:425:THR:HG23	1.80	0.63
1:B:469:TYR:CE1	1:B:470:PRO:HD2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:147:SER:OG	1:C:167:ARG:HG3	1.99	0.63
1:C:364:ILE:O	1:C:364:ILE:HD12	1.97	0.63
1:C:469:TYR:CD2	1:C:470:PRO:CD	2.81	0.63
1:D:22:VAL:HG22	1:D:23:GLN:N	2.14	0.63
1:D:142:LEU:HB3	1:D:196:LEU:HA	1.81	0.63
1:D:347:ARG:HG3	1:D:392:GLY:H	1.62	0.63
1:A:142:LEU:HB3	1:A:196:LEU:HA	1.81	0.63
1:B:147:SER:OG	1:B:167:ARG:HG3	1.99	0.63
1:B:154:ASP:CA	2:B:801:NAG:H82	2.29	0.63
1:B:346:SER:OG	1:B:349:GLU:HG3	1.97	0.63
1:B:486:GLU:O	1:B:495:LEU:N	2.31	0.63
1:A:504:LYS:NZ	1:A:531:SER:OG	2.32	0.63
1:B:419:VAL:HG13	2:B:809:NAG:O7	1.98	0.63
1:C:486:GLU:O	1:C:494:MET:CA	2.46	0.63
2:C:904:NAG:O7	2:C:904:NAG:C3	2.45	0.63
1:B:127:VAL:HG22	1:B:128:MET:N	2.14	0.63
1:B:154:ASP:O	2:B:801:NAG:H82	1.98	0.63
1:B:364:ILE:O	1:B:364:ILE:CD1	2.46	0.63
1:C:419:VAL:HG13	2:C:809:NAG:O7	1.98	0.63
1:D:411:LEU:HD22	1:D:421:THR:HG23	1.81	0.63
1:D:482:THR:HG21	1:D:499:THR:CA	2.27	0.63
1:A:154:ASP:O	2:A:801:NAG:H82	1.98	0.63
1:C:142:LEU:HB3	1:C:196:LEU:HA	1.81	0.63
1:C:411:LEU:HD22	1:C:421:THR:HG23	1.81	0.63
1:A:265:GLU:HB3	1:A:268:PHE:CE2	2.31	0.62
1:B:374:ASP:O	1:B:375:PRO:O	2.17	0.62
1:B:411:LEU:HD22	1:B:421:THR:HG23	1.81	0.62
1:B:474:SER:HB2	1:B:512:LEU:CG	2.15	0.62
1:C:415:ASP:OD1	1:C:416:GLY:N	2.27	0.62
1:A:3:VAL:CG1	1:B:4:ILE:HD13	2.28	0.62
1:A:227:THR:CG2	2:A:807:NAG:C7	2.76	0.62
1:C:403:ASN:CB	2:C:902:NAG:C7	2.76	0.62
1:D:364:ILE:O	1:D:364:ILE:CD1	2.46	0.62
1:D:486:GLU:O	1:D:494:MET:CA	2.46	0.62
1:A:127:VAL:HG22	1:A:128:MET:N	2.14	0.62
1:A:154:ASP:CA	2:A:801:NAG:H82	2.29	0.62
1:A:469:TYR:CE1	1:A:470:PRO:HD2	2.34	0.62
1:D:371:ILE:HG22	1:D:372:GLY:N	2.14	0.62
1:A:524:VAL:HG23	2:A:904:NAG:C8	2.29	0.62
1:B:22:VAL:HG22	1:B:23:GLN:N	2.14	0.62
1:B:518:ASN:O	1:B:520:PRO:CD	2.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:374:ASP:O	1:C:375:PRO:O	2.17	0.62
1:D:486:GLU:O	1:D:495:LEU:N	2.31	0.62
2:A:805:NAG:C6	2:A:806:NAG:C7	2.74	0.62
1:B:524:VAL:HG23	2:B:904:NAG:C8	2.29	0.62
1:C:32:ASN:ND2	1:C:83:GLU:N	2.45	0.62
1:C:227:THR:CG2	2:C:807:NAG:C7	2.76	0.62
1:D:154:ASP:CA	2:D:801:NAG:H82	2.29	0.62
1:D:366:LYS:HG3	1:D:367:LEU:N	2.04	0.62
1:D:419:VAL:HG13	2:D:809:NAG:O7	1.98	0.62
1:A:371:ILE:CG2	1:A:372:GLY:H	2.13	0.62
1:A:508:SER:HB3	1:A:526:ASN:OD1	2.00	0.62
1:A:517:GLN:C	1:A:519:ASN:N	2.47	0.62
1:B:446:THR:CG2	1:B:539:CYS:SG	2.86	0.62
1:D:403:ASN:CB	2:D:902:NAG:C7	2.76	0.62
1:B:142:LEU:HB3	1:B:196:LEU:HA	1.81	0.62
1:C:524:VAL:CG2	2:C:904:NAG:C8	2.78	0.62
1:D:371:ILE:CG2	1:D:372:GLY:H	2.13	0.62
1:B:232:GLU:HG3	1:B:290:PHE:H	1.61	0.62
1:D:449:ASP:H	1:D:532:CYS:CB	2.12	0.62
1:D:524:VAL:HG23	2:D:904:NAG:C8	2.29	0.62
1:B:486:GLU:O	1:B:494:MET:CA	2.46	0.62
1:C:469:TYR:CE1	1:C:470:PRO:HD2	2.34	0.62
1:A:403:ASN:O	1:A:405:THR:N	2.33	0.62
1:B:482:THR:HG22	1:B:499:THR:N	2.13	0.62
1:A:2:TRP:CZ3	1:B:6:PRO:HG3	2.35	0.61
1:B:212:THR:HG22	1:B:213:ASP:N	2.15	0.61
1:B:235:ILE:HG12	1:B:287:GLY:HA2	1.82	0.61
1:C:154:ASP:CA	2:C:801:NAG:H82	2.29	0.61
1:D:68:ARG:HD3	1:D:100:ASP:HA	1.82	0.61
1:A:371:ILE:HG22	1:A:372:GLY:N	2.14	0.61
1:A:486:GLU:O	1:A:494:MET:CA	2.46	0.61
1:A:524:VAL:CG2	2:A:904:NAG:C8	2.78	0.61
1:B:508:SER:HB3	1:B:526:ASN:OD1	2.00	0.61
1:A:68:ARG:HD3	1:A:100:ASP:HA	1.82	0.61
1:A:181:ARG:NE	1:A:213:ASP:OD1	2.34	0.61
1:A:411:LEU:HD22	1:A:421:THR:HG23	1.81	0.61
1:C:403:ASN:O	1:C:405:THR:N	2.33	0.61
1:A:212:THR:HG22	1:A:213:ASP:N	2.15	0.61
1:A:449:ASP:H	1:A:532:CYS:CB	2.12	0.61
1:B:181:ARG:NE	1:B:213:ASP:OD1	2.34	0.61
1:B:371:ILE:CG2	1:B:372:GLY:H	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:154:ASP:O	1:C:155:PRO:C	2.36	0.61
1:D:524:VAL:CG2	2:D:904:NAG:C8	2.78	0.61
1:B:524:VAL:CG2	2:B:904:NAG:C8	2.78	0.61
1:C:68:ARG:HD3	1:C:100:ASP:HA	1.82	0.61
1:D:379:LEU:HD23	1:D:379:LEU:H	1.66	0.61
1:A:374:ASP:O	1:A:375:PRO:O	2.17	0.61
1:C:508:SER:HB3	1:C:526:ASN:OD1	2.00	0.61
1:D:127:VAL:HG22	1:D:128:MET:N	2.14	0.61
1:D:403:ASN:O	1:D:405:THR:N	2.33	0.61
1:A:379:LEU:HD23	1:A:379:LEU:H	1.66	0.61
1:C:524:VAL:HG23	2:C:904:NAG:C8	2.29	0.61
1:D:154:ASP:O	1:D:155:PRO:C	2.37	0.61
1:D:374:ASP:O	1:D:375:PRO:O	2.17	0.61
1:A:475:LEU:O	1:A:479:SER:HB3	2.01	0.61
1:C:181:ARG:NE	1:C:213:ASP:OD1	2.34	0.61
1:B:403:ASN:CB	2:B:902:NAG:H83	2.21	0.61
1:C:212:THR:HG22	1:C:213:ASP:N	2.15	0.61
1:D:181:ARG:NE	1:D:213:ASP:OD1	2.34	0.61
1:D:469:TYR:CE1	1:D:470:PRO:HD2	2.34	0.61
1:C:371:ILE:CG2	1:C:372:GLY:H	2.13	0.60
1:D:508:SER:HB3	1:D:526:ASN:OD1	1.99	0.60
1:A:486:GLU:O	1:A:495:LEU:N	2.31	0.60
1:B:154:ASP:O	1:B:155:PRO:C	2.36	0.60
1:D:232:GLU:CG	1:D:290:PHE:N	2.64	0.60
1:C:127:VAL:HG22	1:C:128:MET:N	2.14	0.60
1:A:94:ILE:N	1:B:2:TRP:CB	2.55	0.60
1:B:68:ARG:HD3	1:B:100:ASP:HA	1.82	0.60
1:C:27:ASN:OD1	1:D:90:GLU:CG	2.47	0.60
1:C:239:VAL:HG13	1:C:240:GLN:H	1.67	0.60
1:A:24:ILE:HB	1:B:1:ASP:N	2.17	0.60
1:A:154:ASP:O	1:A:155:PRO:C	2.36	0.60
1:B:227:THR:CG2	2:B:807:NAG:C7	2.76	0.60
1:B:403:ASN:O	1:B:405:THR:N	2.33	0.60
1:D:212:THR:HG22	1:D:213:ASP:N	2.15	0.60
1:D:514:SER:HA	1:D:517:GLN:O	2.02	0.60
1:A:415:ASP:OD1	1:A:416:GLY:N	2.27	0.60
1:C:508:SER:HA	1:C:526:ASN:HA	1.84	0.60
1:B:336:VAL:HB	1:B:426:LEU:HD23	1.84	0.60
1:C:116:SER:HA	1:C:210:GLN:O	2.02	0.60
1:B:155:PRO:C	1:B:157:GLU:N	2.56	0.60
1:D:189:LEU:N	1:D:189:LEU:HD23	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:482:THR:HG22	1:D:499:THR:N	2.13	0.60
1:A:24:ILE:CB	1:B:1:ASP:H2	2.15	0.60
1:A:239:VAL:HG13	1:A:240:GLN:H	1.67	0.60
1:A:514:SER:HA	1:A:517:GLN:O	2.02	0.60
1:B:449:ASP:H	1:B:532:CYS:CB	2.12	0.60
1:B:508:SER:HA	1:B:526:ASN:HA	1.84	0.60
1:D:146:LEU:HA	1:D:194:THR:O	2.02	0.60
1:D:239:VAL:HG13	1:D:240:GLN:H	1.67	0.60
1:A:450:GLN:HB2	1:A:533:GLU:CA	2.26	0.59
1:B:523:THR:CG2	1:B:524:VAL:H	1.94	0.59
1:C:443:ARG:HG3	1:C:443:ARG:HH11	1.67	0.59
1:A:403:ASN:CB	2:A:902:NAG:C7	2.76	0.59
1:B:49:GLY:O	1:B:63:THR:HG21	2.02	0.59
1:B:379:LEU:HD23	1:B:379:LEU:H	1.66	0.59
1:C:24:ILE:HG21	1:D:2:TRP:HA	0.65	0.59
1:C:447:MET:HB2	1:C:529:VAL:HG22	1.84	0.59
1:C:514:SER:HA	1:C:517:GLN:O	2.02	0.59
1:D:155:PRO:C	1:D:157:GLU:N	2.56	0.59
1:D:508:SER:HA	1:D:526:ASN:HA	1.84	0.59
1:A:508:SER:HA	1:A:526:ASN:HA	1.84	0.59
1:C:379:LEU:HD23	1:C:379:LEU:H	1.66	0.59
1:D:447:MET:HB2	1:D:529:VAL:HG22	1.84	0.59
1:B:189:LEU:N	1:B:189:LEU:HD23	2.17	0.59
1:B:268:PHE:HA	1:B:285:ALA:HB3	1.84	0.59
1:C:189:LEU:N	1:C:189:LEU:HD23	2.17	0.59
1:C:336:VAL:HB	1:C:426:LEU:HD23	1.84	0.59
1:A:447:MET:HB2	1:A:529:VAL:HG22	1.84	0.59
1:C:155:PRO:C	1:C:157:GLU:N	2.56	0.59
1:D:336:VAL:HB	1:D:426:LEU:HD23	1.84	0.59
1:A:116:SER:HA	1:A:210:GLN:O	2.02	0.59
1:A:146:LEU:HA	1:A:194:THR:O	2.02	0.59
1:A:221:PHE:HA	1:A:244:VAL:HG12	1.85	0.59
1:B:475:LEU:O	1:B:479:SER:HB3	2.01	0.59
1:C:1:ASP:HB2	1:D:27:ASN:N	2.17	0.59
1:C:475:LEU:O	1:C:479:SER:HB3	2.01	0.59
1:D:367:LEU:CB	1:D:413:THR:O	2.51	0.59
1:D:475:LEU:O	1:D:479:SER:HB3	2.01	0.59
1:A:268:PHE:HA	1:A:285:ALA:HB3	1.85	0.59
1:B:32:ASN:HD22	1:B:83:GLU:H	1.51	0.59
1:D:116:SER:HA	1:D:210:GLN:O	2.02	0.59
1:B:367:LEU:CB	1:B:413:THR:O	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:ARG:HH11	1:B:443:ARG:HG3	1.68	0.59
1:C:309:SER:O	1:C:310:VAL:HG23	2.03	0.59
1:D:415:ASP:OD1	1:D:416:GLY:N	2.26	0.59
1:A:443:ARG:HH11	1:A:443:ARG:HG3	1.68	0.59
1:B:146:LEU:HA	1:B:194:THR:O	2.02	0.59
1:B:232:GLU:HG2	1:B:289:ASP:CA	2.33	0.59
1:B:286:LYS:O	1:B:287:GLY:O	2.21	0.59
1:B:473:VAL:HA	1:B:513:LEU:HD23	1.85	0.59
1:C:449:ASP:H	1:C:532:CYS:CB	2.12	0.59
1:C:486:GLU:O	1:C:495:LEU:N	2.31	0.59
1:D:195:ASP:CB	1:D:200:GLY:HA3	2.33	0.59
1:A:49:GLY:O	1:A:63:THR:HG21	2.02	0.59
1:A:189:LEU:HD23	1:A:189:LEU:N	2.17	0.59
1:B:116:SER:HA	1:B:210:GLN:O	2.02	0.59
1:C:232:GLU:HG2	1:C:289:ASP:CA	2.33	0.59
1:C:232:GLU:CG	1:C:290:PHE:N	2.64	0.59
1:D:396:ARG:NH2	1:D:464:ILE:HG21	2.17	0.59
1:D:518:ASN:O	1:D:520:PRO:CD	2.46	0.59
1:A:232:GLU:CG	1:A:290:PHE:N	2.64	0.58
1:A:309:SER:O	1:A:310:VAL:HG23	2.03	0.58
1:A:335:ALA:HB1	3:A:811:NDG:C6	2.33	0.58
1:A:406:TYR:HB3	1:A:428:LEU:CD2	2.33	0.58
1:B:406:TYR:HB3	1:B:428:LEU:CD2	2.33	0.58
1:B:443:ARG:HA	1:B:525:VAL:HG13	1.85	0.58
1:B:447:MET:HB2	1:B:529:VAL:HG22	1.84	0.58
1:C:49:GLY:O	1:C:63:THR:HG21	2.02	0.58
1:C:146:LEU:HA	1:C:194:THR:O	2.02	0.58
1:C:406:TYR:HB3	1:C:428:LEU:CD2	2.33	0.58
1:A:38:ILE:HG22	1:A:53:ILE:HG22	1.85	0.58
1:A:537:ILE:HG12	1:A:538:LYS:N	2.19	0.58
1:B:239:VAL:HG13	1:B:240:GLN:H	1.67	0.58
1:C:367:LEU:CB	1:C:413:THR:O	2.51	0.58
1:D:299:GLN:C	1:D:300:ILE:HD12	2.24	0.58
1:D:406:TYR:HB3	1:D:428:LEU:CD2	2.33	0.58
1:A:443:ARG:HA	1:A:525:VAL:HG13	1.85	0.58
1:B:514:SER:HA	1:B:517:GLN:O	2.02	0.58
1:D:473:VAL:HA	1:D:513:LEU:HD23	1.85	0.58
1:A:367:LEU:CB	1:A:413:THR:O	2.51	0.58
1:B:309:SER:O	1:B:310:VAL:HG23	2.03	0.58
1:D:49:GLY:O	1:D:63:THR:HG21	2.02	0.58
1:D:286:LYS:O	1:D:287:GLY:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:443:ARG:HA	1:D:525:VAL:HG13	1.85	0.58
1:B:335:ALA:HB1	3:B:811:NDG:C6	2.33	0.58
1:C:27:ASN:OD1	1:D:90:GLU:CA	2.51	0.58
1:C:195:ASP:CB	1:C:200:GLY:HA3	2.33	0.58
1:C:235:ILE:HG12	1:C:287:GLY:HA2	1.82	0.58
1:D:38:ILE:HG22	1:D:53:ILE:HG22	1.85	0.58
1:D:268:PHE:HA	1:D:285:ALA:HB3	1.85	0.58
1:B:396:ARG:NH2	1:B:464:ILE:HG21	2.17	0.58
1:C:366:LYS:HG3	1:C:367:LEU:N	2.04	0.58
1:A:336:VAL:HB	1:A:426:LEU:HD23	1.84	0.58
1:B:221:PHE:HA	1:B:244:VAL:HG12	1.85	0.58
1:B:232:GLU:CG	1:B:290:PHE:N	2.64	0.58
1:B:363:GLN:O	1:B:364:ILE:HG22	2.03	0.58
1:C:268:PHE:HA	1:C:285:ALA:HB3	1.85	0.58
1:D:232:GLU:HG2	1:D:289:ASP:CA	2.33	0.58
1:A:296:TYR:HB2	1:A:321:VAL:HB	1.86	0.58
1:B:299:GLN:C	1:B:300:ILE:HD12	2.24	0.58
1:C:226:TYR:CE2	1:C:242:LEU:HD23	2.39	0.58
1:D:154:ASP:CB	1:D:155:PRO:CD	2.82	0.58
1:A:232:GLU:HG2	1:A:289:ASP:CA	2.33	0.58
1:A:240:GLN:HG3	1:A:241:ARG:N	2.19	0.58
1:A:363:GLN:O	1:A:364:ILE:HG22	2.03	0.58
1:B:195:ASP:CB	1:B:200:GLY:HA3	2.33	0.58
1:C:335:ALA:HB1	3:C:811:NDG:C6	2.33	0.58
1:D:443:ARG:HH11	1:D:443:ARG:HG3	1.67	0.58
1:A:286:LYS:O	1:A:287:GLY:O	2.21	0.58
1:A:330:PRO:HD3	1:A:414:ASP:HB2	1.86	0.58
1:B:296:TYR:HB2	1:B:321:VAL:HB	1.86	0.58
1:B:332:PHE:CD2	1:B:424:GLY:HA3	2.39	0.58
1:C:154:ASP:CB	1:C:155:PRO:CD	2.82	0.58
1:C:240:GLN:HG3	1:C:241:ARG:N	2.19	0.58
1:C:363:GLN:O	1:C:364:ILE:HG22	2.03	0.58
1:D:309:SER:O	1:D:310:VAL:HG23	2.03	0.58
1:D:320:THR:CG2	2:D:807:NAG:C2	2.76	0.58
1:B:68:ARG:HG3	1:B:69:GLU:N	2.19	0.57
1:C:332:PHE:CD2	1:C:424:GLY:HA3	2.39	0.57
1:D:32:ASN:HD22	1:D:83:GLU:H	1.51	0.57
1:D:226:TYR:CE2	1:D:242:LEU:HD23	2.39	0.57
1:A:299:GLN:C	1:A:300:ILE:HD12	2.24	0.57
1:B:406:TYR:HB3	1:B:428:LEU:HD21	1.87	0.57
1:C:60:MET:SD	1:D:2:TRP:CZ3	2.97	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:406:TYR:HB3	1:C:428:LEU:HD21	1.87	0.57
1:D:154:ASP:CB	2:D:801:NAG:HN2	2.16	0.57
1:D:332:PHE:CD2	1:D:424:GLY:HA3	2.39	0.57
1:D:450:GLN:HB2	1:D:533:GLU:CA	2.26	0.57
1:B:226:TYR:CE2	1:B:242:LEU:HD23	2.39	0.57
1:B:240:GLN:HG3	1:B:241:ARG:N	2.19	0.57
1:C:42:GLY:HA2	1:C:47:PRO:O	2.04	0.57
1:C:299:GLN:C	1:C:300:ILE:HD12	2.24	0.57
1:D:42:GLY:HA2	1:D:47:PRO:O	2.04	0.57
1:D:221:PHE:HA	1:D:244:VAL:HG12	1.85	0.57
1:D:537:ILE:HG12	1:D:538:LYS:N	2.19	0.57
1:A:226:TYR:CE2	1:A:242:LEU:HD23	2.39	0.57
1:B:38:ILE:HG22	1:B:53:ILE:HG22	1.85	0.57
1:B:505:GLY:HA2	1:B:529:VAL:H	1.69	0.57
1:C:22:VAL:CG2	1:D:5:PRO:CG	2.59	0.57
1:C:482:THR:HG22	1:C:499:THR:N	2.13	0.57
1:A:155:PRO:C	1:A:157:GLU:N	2.56	0.57
1:C:38:ILE:HG22	1:C:53:ILE:HG22	1.85	0.57
1:C:537:ILE:HG12	1:C:538:LYS:N	2.19	0.57
1:D:235:ILE:HG12	1:D:287:GLY:HA2	1.82	0.57
1:D:363:GLN:O	1:D:364:ILE:HG22	2.03	0.57
1:A:393:ASN:C	1:A:394:LEU:HD12	2.25	0.57
1:B:42:GLY:HA2	1:B:47:PRO:O	2.04	0.57
1:C:286:LYS:O	1:C:287:GLY:O	2.21	0.57
1:C:403:ASN:CB	2:C:902:NAG:H83	2.21	0.57
1:A:505:GLY:HA2	1:A:529:VAL:H	1.70	0.57
1:B:450:GLN:HB2	1:B:533:GLU:CA	2.26	0.57
1:C:221:PHE:HA	1:C:244:VAL:HG12	1.85	0.57
1:D:240:GLN:HG3	1:D:241:ARG:N	2.19	0.57
1:D:505:GLY:HA2	1:D:529:VAL:H	1.69	0.57
1:A:235:ILE:HG12	1:A:287:GLY:HA2	1.82	0.57
1:B:108:PHE:CE1	1:B:203:VAL:HG23	2.40	0.57
1:C:189:LEU:HD21	1:C:209:ILE:HD12	1.87	0.57
1:C:393:ASN:C	1:C:394:LEU:HD12	2.25	0.57
1:C:443:ARG:HA	1:C:525:VAL:HG13	1.85	0.57
1:A:68:ARG:HG3	1:A:69:GLU:N	2.19	0.57
1:A:108:PHE:CE1	1:A:203:VAL:HG23	2.40	0.57
1:A:259:TYR:O	1:A:260:LYS:HB3	2.05	0.57
1:A:473:VAL:HA	1:A:513:LEU:HD23	1.85	0.57
1:B:154:ASP:CB	1:B:155:PRO:CD	2.82	0.57
1:C:473:VAL:HA	1:C:513:LEU:HD23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:TYR:O	1:C:260:LYS:HB3	2.05	0.56
1:D:393:ASN:C	1:D:394:LEU:HD12	2.25	0.56
1:A:332:PHE:CD2	1:A:424:GLY:HA3	2.39	0.56
1:D:378:TRP:O	1:D:391:ASN:HB2	2.06	0.56
1:A:42:GLY:HA2	1:A:47:PRO:O	2.04	0.56
1:A:222:ASP:N	1:A:243:SER:O	2.38	0.56
1:A:396:ARG:NH2	1:A:464:ILE:HG21	2.17	0.56
1:B:259:TYR:O	1:B:260:LYS:HB3	2.05	0.56
1:C:108:PHE:CE1	1:C:203:VAL:HG23	2.40	0.56
1:C:222:ASP:N	1:C:243:SER:O	2.38	0.56
1:C:296:TYR:HB2	1:C:321:VAL:HB	1.86	0.56
1:C:330:PRO:HD3	1:C:414:ASP:HB2	1.86	0.56
1:C:336:VAL:HG12	1:C:338:ARG:HB2	1.87	0.56
1:C:396:ARG:NH2	1:C:464:ILE:HG21	2.17	0.56
1:D:108:PHE:CE1	1:D:203:VAL:HG23	2.40	0.56
1:D:394:LEU:N	1:D:394:LEU:CD1	2.69	0.56
1:A:336:VAL:HG12	1:A:338:ARG:HB2	1.87	0.56
1:B:393:ASN:C	1:B:394:LEU:HD12	2.25	0.56
1:C:68:ARG:HG3	1:C:69:GLU:N	2.19	0.56
1:C:162:LEU:O	1:C:174:LEU:HD12	2.06	0.56
1:A:162:LEU:O	1:A:174:LEU:HD12	2.06	0.56
1:A:369:TYR:HD1	1:A:383:LYS:O	1.88	0.56
1:B:222:ASP:N	1:B:243:SER:O	2.38	0.56
1:B:378:TRP:O	1:B:391:ASN:HB2	2.06	0.56
1:B:537:ILE:HG12	1:B:538:LYS:N	2.19	0.56
1:C:505:GLY:HA2	1:C:529:VAL:H	1.69	0.56
1:D:189:LEU:HD21	1:D:209:ILE:HD12	1.87	0.56
1:A:378:TRP:O	1:A:391:ASN:HB2	2.06	0.56
1:B:330:PRO:HD3	1:B:414:ASP:HB2	1.86	0.56
1:C:154:ASP:CB	2:C:801:NAG:HN2	2.16	0.56
1:D:68:ARG:HG3	1:D:69:GLU:N	2.19	0.56
1:D:259:TYR:O	1:D:260:LYS:HB3	2.05	0.56
1:C:369:TYR:HD1	1:C:383:LYS:O	1.88	0.56
1:D:162:LEU:O	1:D:174:LEU:HD12	2.06	0.56
1:D:336:VAL:HG12	1:D:338:ARG:HB2	1.87	0.56
1:A:365:GLN:O	1:A:365:GLN:CG	2.54	0.56
1:A:406:TYR:HB3	1:A:428:LEU:HD21	1.86	0.56
1:A:522:LEU:CD2	1:A:523:THR:HB	2.26	0.56
1:B:394:LEU:N	1:B:394:LEU:CD1	2.69	0.56
1:C:27:ASN:CG	1:D:90:GLU:HG3	2.24	0.56
1:D:222:ASP:N	1:D:243:SER:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:296:TYR:HB2	1:D:321:VAL:HB	1.86	0.56
1:D:330:PRO:HD3	1:D:414:ASP:HB2	1.86	0.56
1:A:118:ARG:HA	1:A:212:THR:HB	1.87	0.56
1:B:439:VAL:HG13	1:B:522:LEU:HD11	1.88	0.56
1:C:118:ARG:HA	1:C:212:THR:HB	1.87	0.56
1:C:394:LEU:N	1:C:394:LEU:CD1	2.69	0.56
1:C:439:VAL:HG13	1:C:522:LEU:HD11	1.88	0.56
1:B:272:THR:CG2	1:B:273:THR:H	2.19	0.56
1:B:333:VAL:CG2	1:B:334:PRO:HD3	2.36	0.56
1:D:339:VAL:HG21	1:D:351:ILE:CG2	2.36	0.56
1:A:189:LEU:HD21	1:A:209:ILE:HD12	1.87	0.55
1:B:162:LEU:O	1:B:174:LEU:HD12	2.06	0.55
1:B:369:TYR:HD1	1:B:383:LYS:O	1.88	0.55
1:D:439:VAL:HG13	1:D:522:LEU:HD11	1.88	0.55
1:A:90:GLU:HB2	1:B:90:GLU:O	2.06	0.55
1:A:154:ASP:CB	2:A:801:NAG:HN2	2.16	0.55
1:A:394:LEU:N	1:A:394:LEU:CD1	2.69	0.55
1:A:482:THR:HG21	1:A:499:THR:C	2.27	0.55
1:B:189:LEU:HD21	1:B:209:ILE:HD12	1.87	0.55
1:C:155:PRO:N	2:C:801:NAG:H82	2.20	0.55
1:D:365:GLN:O	1:D:365:GLN:CG	2.54	0.55
1:D:406:TYR:HB3	1:D:428:LEU:HD21	1.87	0.55
1:A:32:ASN:CG	1:A:33:LYS:N	2.59	0.55
1:A:439:VAL:HG13	1:A:522:LEU:HD11	1.88	0.55
1:B:336:VAL:HG12	1:B:338:ARG:HB2	1.87	0.55
1:C:32:ASN:CG	1:C:33:LYS:N	2.59	0.55
1:D:32:ASN:CG	1:D:33:LYS:N	2.59	0.55
1:D:118:ARG:HA	1:D:212:THR:HB	1.88	0.55
1:A:272:THR:CG2	1:A:273:THR:H	2.19	0.55
1:A:333:VAL:CG2	1:A:334:PRO:HD3	2.36	0.55
1:B:155:PRO:N	2:B:801:NAG:H82	2.20	0.55
1:C:339:VAL:HG21	1:C:351:ILE:CG2	2.36	0.55
1:C:378:TRP:O	1:C:391:ASN:HB2	2.06	0.55
1:D:459:ILE:HG21	1:D:471:TYR:CE2	2.42	0.55
1:A:195:ASP:CB	1:A:200:GLY:HA3	2.33	0.55
1:A:339:VAL:HG21	1:A:351:ILE:CG2	2.36	0.55
1:A:419:VAL:CG1	1:A:420:GLY:N	2.70	0.55
1:B:339:VAL:HG21	1:B:351:ILE:CG2	2.36	0.55
1:B:415:ASP:OD1	1:B:416:GLY:N	2.27	0.55
1:C:268:PHE:CD2	1:C:268:PHE:N	2.75	0.55
1:C:333:VAL:CG2	1:C:334:PRO:HD3	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:ILE:CD1	1:B:3:VAL:N	2.69	0.55
1:C:419:VAL:CG1	1:C:420:GLY:N	2.70	0.55
1:C:459:ILE:HG21	1:C:471:TYR:CE2	2.42	0.55
1:A:155:PRO:HG2	2:A:801:NAG:O7	2.07	0.55
1:C:154:ASP:CG	1:C:155:PRO:CD	2.75	0.55
1:D:155:PRO:N	2:D:801:NAG:H82	2.20	0.55
1:D:278:ASN:HD22	1:D:278:ASN:N	2.05	0.55
1:D:335:ALA:HB1	3:D:811:NDG:C6	2.33	0.55
1:D:369:TYR:HD1	1:D:383:LYS:O	1.88	0.55
1:A:459:ILE:HG21	1:A:471:TYR:CE2	2.42	0.55
1:B:28:LYS:HB3	1:B:88:VAL:HG11	1.89	0.55
1:B:32:ASN:CG	1:B:33:LYS:N	2.59	0.55
1:B:118:ARG:HA	1:B:212:THR:HB	1.87	0.55
1:B:154:ASP:CB	2:B:801:NAG:HN2	2.16	0.55
1:C:1:ASP:N	1:D:26:SER:C	2.60	0.55
1:C:482:THR:HG22	1:C:499:THR:H	1.70	0.55
1:D:333:VAL:CG2	1:D:334:PRO:HD3	2.36	0.55
1:B:155:PRO:HG2	2:B:801:NAG:O7	2.07	0.55
1:B:419:VAL:CG1	1:B:420:GLY:N	2.70	0.55
1:C:92:MET:O	1:D:2:TRP:NE1	2.40	0.55
1:C:155:PRO:HG2	2:C:801:NAG:O7	2.07	0.55
1:A:438:PRO:HB2	1:A:513:LEU:HD12	1.89	0.55
1:C:320:THR:CG2	2:C:807:NAG:C2	2.76	0.55
1:D:75:VAL:O	1:D:76:LEU:HD23	2.07	0.55
1:D:117:VAL:O	1:D:211:ILE:HA	2.07	0.55
1:D:154:ASP:CG	1:D:155:PRO:CD	2.75	0.55
1:A:3:VAL:CG1	1:B:4:ILE:CD1	2.44	0.54
1:A:432:ASP:CG	1:A:464:ILE:CG2	2.74	0.54
1:B:117:VAL:O	1:B:211:ILE:HA	2.07	0.54
1:B:226:TYR:O	1:B:227:THR:CG2	2.55	0.54
1:C:28:LYS:HB3	1:C:88:VAL:HG11	1.89	0.54
1:C:226:TYR:O	1:C:227:THR:CG2	2.55	0.54
1:D:155:PRO:HG2	2:D:801:NAG:O7	2.07	0.54
1:B:169:THR:OG1	1:B:171:VAL:HG23	2.07	0.54
1:B:363:GLN:C	1:B:364:ILE:CG2	2.75	0.54
1:B:438:PRO:HB2	1:B:513:LEU:HD12	1.89	0.54
1:C:367:LEU:C	1:C:367:LEU:HD12	2.28	0.54
1:D:272:THR:CG2	1:D:273:THR:H	2.19	0.54
1:A:75:VAL:O	1:A:76:LEU:HD23	2.08	0.54
1:A:154:ASP:CG	1:A:155:PRO:CD	2.75	0.54
1:A:268:PHE:CD2	1:A:268:PHE:N	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:459:ILE:HG21	1:B:471:TYR:CE2	2.42	0.54
1:C:92:MET:CB	1:D:2:TRP:CD1	2.90	0.54
1:C:226:TYR:HB2	1:C:319:VAL:HG22	1.90	0.54
1:D:419:VAL:CG1	1:D:420:GLY:N	2.70	0.54
1:B:450:GLN:CB	1:B:532:CYS:O	2.56	0.54
1:C:75:VAL:O	1:C:76:LEU:HD23	2.08	0.54
1:C:272:THR:CG2	1:C:273:THR:H	2.19	0.54
1:D:466:PRO:O	1:D:468:THR:N	2.40	0.54
1:D:490:LYS:O	1:D:490:LYS:HG2	2.08	0.54
1:A:32:ASN:HD22	1:A:83:GLU:H	1.51	0.54
1:A:363:GLN:C	1:A:364:ILE:CG2	2.75	0.54
1:B:75:VAL:O	1:B:76:LEU:HD23	2.08	0.54
1:B:154:ASP:CG	1:B:155:PRO:CD	2.75	0.54
1:B:367:LEU:C	1:B:367:LEU:HD12	2.28	0.54
1:B:466:PRO:O	1:B:468:THR:N	2.40	0.54
1:B:482:THR:HG21	1:B:499:THR:C	2.27	0.54
1:C:78:SER:H	1:D:2:TRP:HE1	1.55	0.54
1:C:117:VAL:O	1:C:211:ILE:HA	2.07	0.54
1:C:169:THR:OG1	1:C:171:VAL:HG23	2.07	0.54
1:C:432:ASP:CG	1:C:464:ILE:CG2	2.74	0.54
1:C:450:GLN:CB	1:C:532:CYS:O	2.56	0.54
1:C:466:PRO:O	1:C:468:THR:N	2.40	0.54
1:A:226:TYR:O	1:A:227:THR:CG2	2.55	0.54
1:B:332:PHE:HD2	1:B:424:GLY:HA3	1.73	0.54
1:C:318:THR:CG2	2:C:806:NAG:H5	2.34	0.54
1:C:330:PRO:HB3	1:C:358:ASP:HB2	1.89	0.54
1:D:330:PRO:HB3	1:D:358:ASP:HB2	1.89	0.54
1:D:403:ASN:CB	2:D:902:NAG:H83	2.21	0.54
1:A:154:ASP:CB	1:A:155:PRO:CD	2.82	0.54
1:D:217:ASN:N	1:D:217:ASN:ND2	2.56	0.54
1:D:371:ILE:HG23	1:D:372:GLY:H	1.73	0.54
1:D:482:THR:HG21	1:D:499:THR:C	2.27	0.54
1:A:320:THR:CG2	2:A:807:NAG:C2	2.76	0.54
1:C:352:ILE:HG13	1:C:388:VAL:CB	2.33	0.54
1:C:363:GLN:C	1:C:364:ILE:CG2	2.75	0.54
1:C:482:THR:HG21	1:C:499:THR:C	2.27	0.54
1:D:332:PHE:HD2	1:D:424:GLY:HA3	1.73	0.54
1:D:367:LEU:C	1:D:367:LEU:HD12	2.28	0.54
1:A:3:VAL:CA	1:B:3:VAL:HB	2.37	0.54
1:A:78:SER:OG	1:B:1:ASP:HA	2.08	0.54
1:A:278:ASN:HD22	1:A:278:ASN:N	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:252:THR:HG23	1:C:253:PRO:HD2	1.90	0.54
1:D:450:GLN:CB	1:D:532:CYS:O	2.56	0.54
1:A:169:THR:OG1	1:A:171:VAL:HG23	2.07	0.54
1:B:276:GLU:CG	1:B:277:SER:N	2.71	0.54
1:B:371:ILE:HG23	1:B:372:GLY:H	1.73	0.54
1:B:432:ASP:CG	1:B:464:ILE:CG2	2.74	0.54
1:C:335:ALA:HB1	3:C:811:NDG:H6	1.69	0.54
1:D:169:THR:OG1	1:D:171:VAL:HG23	2.07	0.54
1:D:226:TYR:HB2	1:D:319:VAL:HG22	1.89	0.54
1:D:226:TYR:O	1:D:227:THR:CG2	2.55	0.54
1:D:443:ARG:HG3	1:D:443:ARG:NH1	2.23	0.54
1:A:117:VAL:O	1:A:211:ILE:HA	2.07	0.53
1:A:217:ASN:N	1:A:217:ASN:ND2	2.56	0.53
1:A:450:GLN:CB	1:A:532:CYS:O	2.56	0.53
1:C:217:ASN:N	1:C:217:ASN:ND2	2.56	0.53
1:C:443:ARG:HG3	1:C:443:ARG:NH1	2.23	0.53
1:C:490:LYS:HG2	1:C:490:LYS:O	2.08	0.53
1:D:28:LYS:HB3	1:D:88:VAL:HG11	1.89	0.53
1:D:252:THR:HG23	1:D:253:PRO:HD2	1.91	0.53
1:D:276:GLU:CG	1:D:277:SER:N	2.71	0.53
1:D:363:GLN:C	1:D:364:ILE:CG2	2.75	0.53
1:A:490:LYS:O	1:A:490:LYS:HG2	2.08	0.53
1:C:32:ASN:HD22	1:C:83:GLU:H	1.51	0.53
1:A:155:PRO:N	2:A:801:NAG:H82	2.20	0.53
1:A:249:MET:O	1:A:252:THR:HB	2.09	0.53
1:B:22:VAL:HG22	1:B:23:GLN:H	1.73	0.53
1:B:268:PHE:CD2	1:B:268:PHE:N	2.75	0.53
1:C:278:ASN:HD22	1:C:278:ASN:N	2.05	0.53
1:C:332:PHE:HD2	1:C:424:GLY:HA3	1.73	0.53
1:D:352:ILE:CG1	1:D:388:VAL:HB	2.33	0.53
1:A:28:LYS:HB3	1:A:88:VAL:HG11	1.89	0.53
1:B:249:MET:O	1:B:252:THR:HB	2.09	0.53
1:B:490:LYS:O	1:B:490:LYS:HG2	2.08	0.53
1:B:533:GLU:HA	1:B:533:GLU:OE2	2.09	0.53
1:C:276:GLU:CG	1:C:277:SER:N	2.71	0.53
1:A:533:GLU:HA	1:A:533:GLU:OE2	2.09	0.53
1:C:367:LEU:HD13	1:C:412:VAL:HG23	1.91	0.53
1:D:249:MET:O	1:D:252:THR:HB	2.08	0.53
1:D:318:THR:CG2	2:D:806:NAG:H5	2.34	0.53
1:D:373:ASN:HB3	1:D:409:ILE:H	1.74	0.53
1:A:347:ARG:HG3	1:A:391:ASN:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:367:LEU:HD12	1:A:367:LEU:C	2.28	0.53
1:A:403:ASN:C	1:A:405:THR:H	2.12	0.53
1:A:458:THR:HG22	1:A:493:SER:HB3	1.91	0.53
1:B:252:THR:HG23	1:B:253:PRO:HD2	1.90	0.53
1:C:242:LEU:O	1:C:279:GLN:HB3	2.09	0.53
1:D:241:ARG:NE	1:D:281:ILE:HD12	2.22	0.53
1:D:403:ASN:C	1:D:405:THR:H	2.12	0.53
1:D:522:LEU:CD2	1:D:523:THR:HB	2.26	0.53
1:A:482:THR:CG2	1:A:499:THR:CA	2.87	0.53
1:C:365:GLN:O	1:C:365:GLN:CG	2.54	0.53
1:C:371:ILE:HG23	1:C:372:GLY:H	1.73	0.53
1:D:533:GLU:HA	1:D:533:GLU:OE2	2.09	0.53
1:A:242:LEU:O	1:A:279:GLN:HB3	2.09	0.53
1:A:276:GLU:CG	1:A:277:SER:N	2.71	0.53
1:B:242:LEU:O	1:B:279:GLN:HB3	2.09	0.53
1:C:458:THR:HG22	1:C:493:SER:HB3	1.90	0.53
1:A:31:PHE:CD2	1:A:32:ASN:HB2	2.44	0.53
1:A:226:TYR:HB2	1:A:319:VAL:HG22	1.90	0.53
1:A:371:ILE:HG23	1:A:372:GLY:H	1.73	0.53
1:A:482:THR:HG22	1:A:499:THR:H	1.70	0.53
1:C:347:ARG:HG3	1:C:391:ASN:HA	1.91	0.53
1:C:438:PRO:HB2	1:C:513:LEU:HD12	1.89	0.53
1:C:512:LEU:HD11	1:C:519:ASN:HD21	1.74	0.53
1:D:367:LEU:HD13	1:D:412:VAL:HG23	1.91	0.53
1:D:438:PRO:HB2	1:D:513:LEU:HD12	1.89	0.53
1:A:92:MET:O	1:B:2:TRP:HB2	2.08	0.53
1:A:330:PRO:HB3	1:A:358:ASP:HB2	1.89	0.53
1:A:482:THR:HG22	1:A:482:THR:O	2.08	0.53
1:B:512:LEU:HD11	1:B:519:ASN:HD21	1.74	0.53
1:C:1:ASP:CB	1:D:26:SER:C	2.77	0.53
1:C:2:TRP:CZ2	1:D:53:ILE:CD1	2.80	0.53
1:C:373:ASN:HB3	1:C:409:ILE:H	1.74	0.53
1:C:450:GLN:HB2	1:C:533:GLU:CA	2.26	0.53
1:A:466:PRO:O	1:A:468:THR:N	2.40	0.52
1:B:330:PRO:HB3	1:B:358:ASP:HB2	1.89	0.52
1:B:450:GLN:CB	1:B:533:GLU:HA	2.29	0.52
1:D:138:ASN:C	1:D:138:ASN:HD22	2.13	0.52
1:A:373:ASN:HB3	1:A:409:ILE:H	1.73	0.52
1:B:369:TYR:O	1:B:383:LYS:HG2	2.09	0.52
1:C:1:ASP:H1	1:D:26:SER:C	2.07	0.52
1:C:31:PHE:CD2	1:C:32:ASN:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:426:LEU:O	1:D:426:LEU:HD13	2.10	0.52
1:D:458:THR:HG22	1:D:493:SER:HB3	1.90	0.52
1:A:318:THR:CG2	2:A:806:NAG:H5	2.34	0.52
1:A:403:ASN:CB	2:A:902:NAG:H83	2.21	0.52
1:B:347:ARG:HG3	1:B:391:ASN:HA	1.91	0.52
1:B:403:ASN:C	1:B:405:THR:H	2.12	0.52
1:C:241:ARG:NE	1:C:281:ILE:HD12	2.22	0.52
1:C:249:MET:O	1:C:252:THR:HB	2.08	0.52
1:C:312:LEU:O	3:C:804:NDG:C8	2.57	0.52
1:C:426:LEU:O	1:C:426:LEU:HD13	2.10	0.52
1:D:105:ARG:HG3	1:D:106:PRO:HD2	1.91	0.52
1:A:2:TRP:CZ2	1:B:95:THR:CG2	2.89	0.52
1:A:312:LEU:O	3:A:804:NDG:C8	2.57	0.52
1:B:105:ARG:HG3	1:B:106:PRO:HD2	1.91	0.52
1:B:217:ASN:N	1:B:217:ASN:ND2	2.56	0.52
1:B:426:LEU:O	1:B:426:LEU:HD13	2.09	0.52
1:C:369:TYR:O	1:C:383:LYS:HG2	2.09	0.52
1:D:194:THR:HG22	1:D:195:ASP:N	2.25	0.52
2:D:809:NAG:H61	2:D:810:NAG:C6	2.39	0.52
1:A:105:ARG:HG3	1:A:106:PRO:HD2	1.91	0.52
1:A:154:ASP:C	2:A:801:NAG:C8	2.62	0.52
1:B:226:TYR:HB2	1:B:319:VAL:HG22	1.89	0.52
1:B:373:ASN:HB3	1:B:409:ILE:H	1.74	0.52
1:B:458:THR:HG22	1:B:493:SER:HB3	1.91	0.52
1:C:1:ASP:OD1	1:D:26:SER:N	2.27	0.52
1:C:22:VAL:HG22	1:C:23:GLN:H	1.73	0.52
1:C:138:ASN:HD22	1:C:138:ASN:C	2.13	0.52
1:D:369:TYR:O	1:D:383:LYS:HG2	2.09	0.52
1:A:272:THR:CG2	2:A:803:NAG:HN2	2.23	0.52
1:A:367:LEU:HD13	1:A:412:VAL:HG23	1.91	0.52
1:C:194:THR:HG22	1:C:195:ASP:N	2.25	0.52
1:D:242:LEU:O	1:D:279:GLN:HB3	2.09	0.52
1:A:332:PHE:HD2	1:A:424:GLY:HA3	1.73	0.52
1:A:347:ARG:HD2	1:A:392:GLY:N	2.25	0.52
1:A:512:LEU:HD11	1:A:519:ASN:HD21	1.75	0.52
1:B:31:PHE:CD2	1:B:32:ASN:HB2	2.44	0.52
1:B:221:PHE:HB3	1:B:223:PRO:O	2.10	0.52
1:B:318:THR:CG2	2:B:806:NAG:H5	2.34	0.52
1:B:336:VAL:O	1:B:426:LEU:HD22	2.10	0.52
1:B:482:THR:CG2	1:B:499:THR:CA	2.87	0.52
1:C:505:GLY:O	1:C:506:ASP:OD1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:221:PHE:HB3	1:D:223:PRO:O	2.10	0.52
1:D:512:LEU:HD11	1:D:519:ASN:HD21	1.74	0.52
1:A:22:VAL:HG22	1:A:23:GLN:H	1.73	0.52
1:A:155:PRO:CD	2:A:801:NAG:H82	2.40	0.52
1:A:402:LYS:C	1:A:403:ASN:O	2.46	0.52
1:B:312:LEU:O	3:B:804:NDG:C8	2.57	0.52
1:B:367:LEU:HD13	1:B:412:VAL:HG23	1.91	0.52
1:A:2:TRP:HZ3	1:B:6:PRO:HG3	1.74	0.52
1:B:138:ASN:C	1:B:138:ASN:HD22	2.13	0.52
1:B:268:PHE:C	1:B:285:ALA:HB3	2.30	0.52
1:C:94:ILE:CG2	1:D:2:TRP:CH2	2.72	0.52
1:C:268:PHE:C	1:C:285:ALA:HB3	2.30	0.52
1:C:272:THR:CG2	2:C:803:NAG:HN2	2.23	0.52
1:D:268:PHE:CD2	1:D:268:PHE:N	2.75	0.52
1:A:252:THR:HG23	1:A:253:PRO:HD2	1.91	0.52
1:B:194:THR:HG22	1:B:195:ASP:N	2.25	0.52
1:B:347:ARG:HD2	1:B:392:GLY:N	2.25	0.52
1:B:450:GLN:CG	1:B:533:GLU:OE2	2.58	0.52
1:C:450:GLN:CG	1:C:533:GLU:OE2	2.58	0.52
1:D:155:PRO:CD	2:D:801:NAG:H82	2.40	0.52
1:D:312:LEU:O	3:D:804:NDG:C8	2.57	0.52
1:A:221:PHE:HB3	1:A:223:PRO:O	2.10	0.51
1:A:369:TYR:O	1:A:383:LYS:HG2	2.09	0.51
1:A:426:LEU:O	1:A:426:LEU:HD13	2.09	0.51
1:B:514:SER:HB3	1:B:517:GLN:O	2.10	0.51
1:C:27:ASN:OD1	1:D:90:GLU:HG3	2.10	0.51
1:D:523:THR:CG2	1:D:524:VAL:H	1.94	0.51
1:A:266:GLY:N	1:A:268:PHE:CE2	2.76	0.51
1:A:505:GLY:O	1:A:506:ASP:OD1	2.28	0.51
1:B:266:GLY:N	1:B:268:PHE:CE2	2.76	0.51
1:B:443:ARG:HG3	1:B:443:ARG:NH1	2.24	0.51
1:B:505:GLY:O	1:B:506:ASP:OD1	2.28	0.51
1:C:221:PHE:HB3	1:C:223:PRO:O	2.10	0.51
1:C:458:THR:HA	1:C:493:SER:HA	1.93	0.51
1:D:234:GLU:HB2	1:D:235:ILE:HG22	1.93	0.51
1:D:268:PHE:C	1:D:285:ALA:HB3	2.30	0.51
1:D:396:ARG:CZ	1:D:432:ASP:HB2	2.41	0.51
1:D:514:SER:HB3	1:D:517:GLN:O	2.10	0.51
1:B:234:GLU:HB2	1:B:235:ILE:HG22	1.93	0.51
1:B:278:ASN:HD22	1:B:278:ASN:N	2.05	0.51
1:B:352:ILE:HG13	1:B:388:VAL:CB	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:338:ARG:HB3	1:C:339:VAL:HG22	1.92	0.51
1:C:403:ASN:C	1:C:405:THR:H	2.12	0.51
1:D:347:ARG:HG3	1:D:391:ASN:HA	1.91	0.51
1:A:24:ILE:HB	1:B:1:ASP:H2	1.76	0.51
1:A:142:LEU:O	1:A:196:LEU:HD23	2.11	0.51
1:B:272:THR:CG2	2:B:803:NAG:HN2	2.23	0.51
1:C:105:ARG:HG3	1:C:106:PRO:HD2	1.91	0.51
1:D:31:PHE:CD2	1:D:32:ASN:HB2	2.44	0.51
1:D:428:LEU:O	1:D:428:LEU:HD23	2.11	0.51
1:A:443:ARG:HG3	1:A:443:ARG:NH1	2.23	0.51
1:A:450:GLN:CG	1:A:533:GLU:OE2	2.58	0.51
1:B:428:LEU:HD23	1:B:428:LEU:O	2.11	0.51
1:C:297:VAL:CG2	2:C:807:NAG:H62	2.41	0.51
1:C:533:GLU:HA	1:C:533:GLU:OE2	2.09	0.51
1:D:336:VAL:O	1:D:426:LEU:HD22	2.10	0.51
1:A:194:THR:HG22	1:A:195:ASP:N	2.25	0.51
1:A:234:GLU:HB2	1:A:235:ILE:HG22	1.93	0.51
1:A:268:PHE:C	1:A:285:ALA:HB3	2.30	0.51
1:A:428:LEU:O	1:A:428:LEU:HD23	2.11	0.51
1:B:142:LEU:O	1:B:196:LEU:HD23	2.11	0.51
1:C:290:PHE:CE2	1:C:293:ARG:CB	2.92	0.51
1:C:428:LEU:O	1:C:428:LEU:HD23	2.11	0.51
1:D:22:VAL:HG22	1:D:23:GLN:H	1.73	0.51
1:D:272:THR:CG2	2:D:803:NAG:HN2	2.23	0.51
1:D:432:ASP:CG	1:D:464:ILE:CG2	2.74	0.51
1:A:514:SER:HB3	1:A:517:GLN:O	2.10	0.51
1:D:505:GLY:O	1:D:506:ASP:OD1	2.28	0.51
1:A:91:PRO:HD2	1:B:89:GLU:OE1	2.10	0.51
1:B:290:PHE:CE2	1:B:293:ARG:CB	2.92	0.51
1:C:336:VAL:O	1:C:426:LEU:HD22	2.10	0.51
1:D:80:ALA:O	1:D:88:VAL:HG23	2.11	0.51
1:D:338:ARG:HB3	1:D:339:VAL:HG22	1.92	0.51
1:A:368:SER:OG	1:A:370:PHE:HE1	1.94	0.51
1:B:155:PRO:CD	2:B:801:NAG:H82	2.40	0.51
1:D:76:LEU:O	1:D:94:ILE:N	2.44	0.51
1:D:227:THR:CG2	2:D:807:NAG:H83	2.32	0.51
1:D:347:ARG:HD2	1:D:392:GLY:N	2.25	0.51
1:A:33:LYS:HB3	1:A:83:GLU:CG	2.40	0.51
1:A:336:VAL:O	1:A:426:LEU:HD22	2.10	0.51
1:A:338:ARG:HB3	1:A:339:VAL:HG22	1.92	0.51
1:B:397:GLU:N	1:B:397:GLU:OE1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:80:ALA:O	1:C:88:VAL:HG23	2.11	0.51
1:C:234:GLU:HB2	1:C:235:ILE:HG22	1.93	0.51
1:A:290:PHE:CE2	1:A:293:ARG:CB	2.92	0.50
1:A:382:ASN:OD1	1:A:385:ASN:N	2.45	0.50
1:A:450:GLN:CB	1:A:533:GLU:HA	2.29	0.50
1:B:28:LYS:CD	1:B:88:VAL:HG12	2.38	0.50
1:B:297:VAL:CG2	2:B:807:NAG:H62	2.41	0.50
1:B:402:LYS:C	1:B:403:ASN:O	2.46	0.50
1:C:397:GLU:OE1	1:C:397:GLU:N	2.45	0.50
1:D:423:THR:HB	2:D:810:NAG:H83	1.93	0.50
1:A:227:THR:CG2	2:A:807:NAG:H83	2.32	0.50
1:A:458:THR:HG22	1:A:493:SER:CB	2.42	0.50
1:A:471:TYR:CD1	1:A:471:TYR:N	2.79	0.50
1:B:151:LEU:HD12	1:B:190:THR:O	2.11	0.50
1:B:241:ARG:NE	1:B:281:ILE:HD12	2.22	0.50
1:C:1:ASP:HB2	1:D:26:SER:C	2.31	0.50
1:C:151:LEU:HD12	1:C:190:THR:O	2.11	0.50
1:C:217:ASN:N	1:C:217:ASN:HD22	2.09	0.50
1:A:217:ASN:N	1:A:217:ASN:HD22	2.09	0.50
1:B:338:ARG:HB3	1:B:339:VAL:HG22	1.92	0.50
1:B:471:TYR:N	1:B:471:TYR:CD1	2.79	0.50
1:C:347:ARG:HD2	1:C:392:GLY:N	2.25	0.50
1:C:368:SER:OG	1:C:370:PHE:HE1	1.94	0.50
1:C:419:VAL:HG22	2:C:809:NAG:H81	1.93	0.50
1:D:382:ASN:OD1	1:D:385:ASN:N	2.45	0.50
1:D:482:THR:CG2	1:D:499:THR:CA	2.87	0.50
1:A:138:ASN:HD22	1:A:138:ASN:C	2.13	0.50
1:A:432:ASP:CB	1:A:464:ILE:CG2	2.89	0.50
1:B:109:THR:HG22	1:B:110:GLN:HG3	1.94	0.50
1:B:186:GLU:OE1	2:B:801:NAG:C6	2.59	0.50
1:B:327:ASN:OD1	1:B:360:ASP:OD1	2.30	0.50
1:C:76:LEU:O	1:C:94:ILE:N	2.44	0.50
1:C:423:THR:HB	2:C:810:NAG:H83	1.93	0.50
1:C:458:THR:HG22	1:C:493:SER:CB	2.41	0.50
1:D:154:ASP:O	2:D:801:NAG:C8	2.60	0.50
1:D:327:ASN:OD1	1:D:360:ASP:OD1	2.30	0.50
1:D:450:GLN:CG	1:D:533:GLU:OE2	2.58	0.50
1:A:155:PRO:HG2	2:A:801:NAG:C7	2.42	0.50
1:A:297:VAL:CG2	2:A:807:NAG:H62	2.41	0.50
2:A:807:NAG:O7	2:A:807:NAG:H3	2.11	0.50
1:B:155:PRO:HG2	2:B:801:NAG:C7	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:ASN:N	1:B:217:ASN:HD22	2.10	0.50
1:B:522:LEU:CD2	1:B:523:THR:HB	2.26	0.50
1:C:109:THR:HG22	1:C:110:GLN:HG3	1.94	0.50
1:C:471:TYR:N	1:C:471:TYR:CD1	2.79	0.50
1:C:514:SER:HB3	1:C:517:GLN:O	2.10	0.50
2:C:809:NAG:H61	2:C:810:NAG:C6	2.39	0.50
1:D:419:VAL:HG22	2:D:809:NAG:H81	1.94	0.50
1:A:154:ASP:O	2:A:801:NAG:C8	2.60	0.50
1:A:327:ASN:OD1	1:A:360:ASP:OD1	2.30	0.50
1:B:216:ASP:HB2	1:B:217:ASN:ND2	2.27	0.50
1:B:261:ILE:HD11	1:B:264:ASN:HD22	1.77	0.50
1:B:335:ALA:CB	3:B:811:NDG:C6	2.90	0.50
1:B:458:THR:HG22	1:B:493:SER:CB	2.42	0.50
2:B:807:NAG:H3	2:B:807:NAG:O7	2.11	0.50
1:C:11:GLU:OE2	1:C:69:GLU:OE1	2.30	0.50
1:C:154:ASP:O	2:C:801:NAG:C8	2.60	0.50
1:C:449:ASP:CB	1:C:532:CYS:N	2.74	0.50
1:D:142:LEU:O	1:D:196:LEU:HD23	2.11	0.50
1:D:151:LEU:HD12	1:D:190:THR:O	2.11	0.50
1:D:217:ASN:N	1:D:217:ASN:HD22	2.09	0.50
1:D:471:TYR:CD1	1:D:471:TYR:N	2.79	0.50
2:D:812:NAG:O7	2:D:812:NAG:C1	2.60	0.50
1:A:352:ILE:HG13	1:A:388:VAL:CB	2.33	0.50
1:A:352:ILE:CG1	1:A:388:VAL:HB	2.33	0.50
1:B:432:ASP:CB	1:B:464:ILE:CG2	2.89	0.50
1:B:457:LEU:HD23	1:B:494:MET:SD	2.52	0.50
1:C:155:PRO:HG2	2:C:801:NAG:C7	2.42	0.50
1:C:227:THR:CG2	2:C:807:NAG:H83	2.32	0.50
1:C:335:ALA:CB	3:C:811:NDG:C6	2.90	0.50
1:C:373:ASN:ND2	1:C:374:ASP:OD1	2.45	0.50
1:C:450:GLN:CB	1:C:533:GLU:HA	2.29	0.50
1:D:363:GLN:C	1:D:364:ILE:HG23	2.32	0.50
1:D:458:THR:HA	1:D:493:SER:HA	1.93	0.50
1:A:80:ALA:O	1:A:88:VAL:HG23	2.11	0.50
1:A:93:GLU:C	1:B:2:TRP:HB2	2.28	0.50
1:A:363:GLN:C	1:A:364:ILE:HG23	2.32	0.50
1:B:154:ASP:O	2:B:801:NAG:C8	2.60	0.50
1:B:373:ASN:ND2	1:B:374:ASP:OD1	2.45	0.50
1:C:142:LEU:O	1:C:196:LEU:HD23	2.11	0.50
1:C:522:LEU:CD2	1:C:523:THR:HB	2.26	0.50
1:D:11:GLU:OE2	1:D:69:GLU:OE1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:186:GLU:OE1	2:D:801:NAG:C6	2.59	0.50
1:D:290:PHE:CE2	1:D:293:ARG:CB	2.92	0.50
1:A:155:PRO:O	1:A:157:GLU:N	2.43	0.50
1:A:216:ASP:HB2	1:A:217:ASN:ND2	2.27	0.50
1:B:151:LEU:HD12	1:B:151:LEU:H	1.77	0.50
1:B:227:THR:CG2	2:B:807:NAG:H83	2.32	0.50
1:B:419:VAL:HG22	2:B:809:NAG:H81	1.94	0.50
1:C:186:GLU:OE1	2:C:801:NAG:C6	2.59	0.50
1:C:382:ASN:OD1	1:C:385:ASN:N	2.45	0.50
1:D:297:VAL:CG2	2:D:807:NAG:H62	2.41	0.50
1:A:261:ILE:HD11	1:A:264:ASN:HD22	1.77	0.49
1:A:449:ASP:CB	1:A:532:CYS:N	2.74	0.49
1:B:276:GLU:HG3	1:B:277:SER:N	2.25	0.49
1:B:367:LEU:HB2	1:B:413:THR:O	2.12	0.49
1:B:458:THR:HA	1:B:493:SER:HA	1.93	0.49
1:C:155:PRO:CD	2:C:801:NAG:H82	2.40	0.49
1:C:449:ASP:CB	1:C:532:CYS:H	2.22	0.49
1:D:216:ASP:HB2	1:D:217:ASN:ND2	2.27	0.49
2:D:807:NAG:O7	2:D:807:NAG:H3	2.11	0.49
1:A:335:ALA:CB	3:A:811:NDG:C6	2.90	0.49
1:A:419:VAL:HG22	2:A:809:NAG:H81	1.94	0.49
1:A:458:THR:HA	1:A:493:SER:HA	1.93	0.49
1:B:27:ASN:C	1:B:29:ASP:H	2.15	0.49
1:B:109:THR:HG22	1:B:110:GLN:CG	2.42	0.49
1:B:382:ASN:OD1	1:B:385:ASN:N	2.45	0.49
1:C:482:THR:CG2	1:C:499:THR:CA	2.87	0.49
1:D:367:LEU:HB2	1:D:413:THR:O	2.12	0.49
1:D:402:LYS:C	1:D:403:ASN:O	2.46	0.49
1:D:482:THR:HG22	1:D:499:THR:H	1.70	0.49
1:A:27:ASN:C	1:A:29:ASP:H	2.15	0.49
1:A:92:MET:HB3	1:B:2:TRP:H	1.77	0.49
1:A:109:THR:HG22	1:A:110:GLN:HG3	1.93	0.49
1:A:151:LEU:HD12	1:A:190:THR:O	2.11	0.49
1:B:155:PRO:O	1:B:157:GLU:N	2.43	0.49
1:C:109:THR:HG22	1:C:110:GLN:CG	2.42	0.49
1:C:154:ASP:C	2:C:801:NAG:C8	2.62	0.49
1:C:367:LEU:HB2	1:C:413:THR:O	2.12	0.49
1:D:335:ALA:CB	3:D:811:NDG:C6	2.90	0.49
1:D:457:LEU:HD23	1:D:494:MET:SD	2.52	0.49
1:A:457:LEU:HD23	1:A:494:MET:SD	2.52	0.49
1:B:336:VAL:CG1	1:B:338:ARG:HB2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:28:LYS:CD	1:C:88:VAL:HG12	2.38	0.49
1:C:151:LEU:HD12	1:C:151:LEU:H	1.78	0.49
1:C:432:ASP:CB	1:C:464:ILE:CG2	2.89	0.49
1:C:457:LEU:HD23	1:C:494:MET:SD	2.52	0.49
1:D:27:ASN:C	1:D:29:ASP:H	2.15	0.49
1:D:109:THR:HG22	1:D:110:GLN:CG	2.42	0.49
1:D:109:THR:HG22	1:D:110:GLN:HG3	1.94	0.49
1:A:4:ILE:HD13	1:B:2:TRP:CA	2.42	0.49
1:A:109:THR:HG22	1:A:110:GLN:CG	2.42	0.49
1:A:282:LEU:CD2	1:A:283:THR:N	2.76	0.49
2:A:809:NAG:H62	2:A:810:NAG:O6	2.13	0.49
1:B:396:ARG:CZ	1:B:432:ASP:HB2	2.41	0.49
1:B:482:THR:HG22	1:B:482:THR:O	2.09	0.49
1:C:512:LEU:HD11	1:C:519:ASN:ND2	2.28	0.49
1:D:458:THR:HG22	1:D:493:SER:CB	2.42	0.49
1:A:4:ILE:HD13	1:B:1:ASP:O	2.13	0.49
1:A:224:LYS:HE3	2:A:806:NAG:H82	1.95	0.49
1:A:226:TYR:C	1:A:227:THR:HG23	2.33	0.49
1:B:423:THR:HB	2:B:810:NAG:H83	1.94	0.49
1:C:226:TYR:C	1:C:227:THR:HG23	2.33	0.49
1:C:363:GLN:C	1:C:364:ILE:HG23	2.32	0.49
1:C:482:THR:HG22	1:C:482:THR:O	2.09	0.49
2:C:812:NAG:O7	2:C:812:NAG:C1	2.60	0.49
1:D:33:LYS:HB3	1:D:83:GLU:CG	2.40	0.49
1:D:261:ILE:HD11	1:D:264:ASN:HD22	1.77	0.49
1:D:432:ASP:CB	1:D:464:ILE:HG21	2.43	0.49
1:A:90:GLU:CB	1:B:90:GLU:O	2.60	0.49
1:A:186:GLU:OE1	2:A:801:NAG:C6	2.59	0.49
1:A:396:ARG:CZ	1:A:432:ASP:HB2	2.41	0.49
1:B:68:ARG:HD3	1:B:100:ASP:CA	2.43	0.49
1:B:80:ALA:O	1:B:88:VAL:HG23	2.11	0.49
1:B:226:TYR:C	1:B:227:THR:HG23	2.33	0.49
1:B:451:ASN:O	1:B:534:GLY:CA	2.60	0.49
2:B:809:NAG:H62	2:B:810:NAG:O6	2.13	0.49
1:C:282:LEU:CD2	1:C:283:THR:N	2.76	0.49
1:C:336:VAL:CG1	1:C:338:ARG:HB2	2.43	0.49
1:D:8:LYS:CD	1:D:8:LYS:N	2.51	0.49
1:D:151:LEU:HD12	1:D:151:LEU:H	1.78	0.49
1:D:151:LEU:O	1:D:152:LYS:HB2	2.13	0.49
1:D:155:PRO:HG2	2:D:801:NAG:C7	2.42	0.49
1:D:273:THR:H	2:D:803:NAG:HN2	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:449:ASP:CB	1:D:532:CYS:N	2.74	0.49
1:D:512:LEU:HD11	1:D:519:ASN:ND2	2.28	0.49
2:D:809:NAG:H62	2:D:810:NAG:O6	2.13	0.49
1:A:192:GLN:HA	1:A:203:VAL:O	2.13	0.49
1:A:252:THR:CG2	1:A:253:PRO:HD2	2.43	0.49
1:B:11:GLU:OE2	1:B:69:GLU:OE1	2.30	0.49
1:B:192:GLN:HA	1:B:203:VAL:O	2.13	0.49
1:C:216:ASP:HB2	1:C:217:ASN:ND2	2.27	0.49
1:C:252:THR:CG2	1:C:253:PRO:HD2	2.43	0.49
1:D:432:ASP:CB	1:D:464:ILE:CG2	2.89	0.49
1:A:281:ILE:HG23	1:A:281:ILE:O	2.13	0.49
1:A:367:LEU:HB2	1:A:413:THR:O	2.12	0.49
1:C:261:ILE:HD11	1:C:264:ASN:HD22	1.77	0.49
1:C:327:ASN:OD1	1:C:360:ASP:OD1	2.30	0.49
1:C:396:ARG:CZ	1:C:432:ASP:HB2	2.41	0.49
1:D:154:ASP:CG	1:D:155:PRO:HD2	2.33	0.49
1:A:76:LEU:O	1:A:94:ILE:N	2.44	0.49
1:B:352:ILE:CG1	1:B:388:VAL:HB	2.33	0.49
1:B:365:GLN:HA	1:B:416:GLY:HA3	1.95	0.49
1:C:68:ARG:HD3	1:C:100:ASP:CA	2.43	0.49
1:C:192:GLN:HA	1:C:203:VAL:O	2.13	0.49
1:C:224:LYS:HE3	2:C:806:NAG:H82	1.95	0.49
1:C:352:ILE:CG1	1:C:388:VAL:HB	2.33	0.49
1:D:224:LYS:CE	2:D:806:NAG:C8	2.91	0.49
1:D:241:ARG:HE	1:D:281:ILE:CD1	2.24	0.49
1:D:336:VAL:CG1	1:D:338:ARG:HB2	2.43	0.49
1:D:373:ASN:ND2	1:D:374:ASP:OD1	2.45	0.49
1:D:451:ASN:O	1:D:534:GLY:CA	2.60	0.49
1:B:282:LEU:CD2	1:B:283:THR:N	2.76	0.48
1:B:496:LEU:HD21	1:B:509:ILE:CD1	2.38	0.48
1:C:27:ASN:OD1	1:D:91:PRO:O	2.31	0.48
1:C:402:LYS:C	1:C:403:ASN:O	2.46	0.48
1:D:67:ASP:OD2	1:D:69:GLU:HB2	2.13	0.48
1:D:192:GLN:HA	1:D:203:VAL:O	2.13	0.48
1:D:252:THR:CG2	1:D:253:PRO:HD2	2.43	0.48
1:D:276:GLU:HG3	1:D:277:SER:N	2.25	0.48
1:A:154:ASP:CG	1:A:155:PRO:HD2	2.33	0.48
1:A:373:ASN:ND2	1:A:374:ASP:OD1	2.45	0.48
1:B:281:ILE:HG23	1:B:281:ILE:O	2.13	0.48
1:B:363:GLN:C	1:B:364:ILE:HG23	2.32	0.48
1:C:432:ASP:CB	1:C:464:ILE:HG21	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:809:NAG:H62	2:C:810:NAG:O6	2.13	0.48
1:A:11:GLU:OE2	1:A:69:GLU:OE1	2.30	0.48
1:A:150:ILE:HD11	1:A:165:ILE:HB	1.96	0.48
1:B:151:LEU:O	1:B:152:LYS:HB2	2.13	0.48
1:C:27:ASN:C	1:C:29:ASP:H	2.16	0.48
1:C:298:LEU:N	1:C:298:LEU:CD2	2.75	0.48
2:C:807:NAG:H3	2:C:807:NAG:O7	2.11	0.48
1:D:28:LYS:CD	1:D:88:VAL:HG12	2.38	0.48
1:D:224:LYS:HE3	2:D:806:NAG:H82	1.95	0.48
1:D:496:LEU:HD21	1:D:509:ILE:CD1	2.38	0.48
1:A:67:ASP:OD2	1:A:69:GLU:HB2	2.14	0.48
1:A:151:LEU:HD12	1:A:151:LEU:H	1.78	0.48
1:A:336:VAL:CG1	1:A:338:ARG:HB2	2.43	0.48
1:A:432:ASP:CB	1:A:464:ILE:HG21	2.43	0.48
1:B:119:GLU:OE2	1:B:216:ASP:OD1	2.32	0.48
1:B:252:THR:CG2	1:B:253:PRO:HD2	2.43	0.48
1:B:432:ASP:CB	1:B:464:ILE:HG21	2.43	0.48
1:B:449:ASP:CB	1:B:532:CYS:N	2.74	0.48
1:C:67:ASP:OD2	1:C:69:GLU:HB2	2.14	0.48
1:C:151:LEU:O	1:C:152:LYS:HB2	2.13	0.48
1:C:281:ILE:HG23	1:C:281:ILE:O	2.13	0.48
2:C:809:NAG:C6	2:C:810:NAG:C6	2.92	0.48
1:D:119:GLU:OE2	1:D:216:ASP:OD1	2.32	0.48
1:D:367:LEU:HD13	1:D:412:VAL:CG2	2.43	0.48
1:A:512:LEU:HD11	1:A:519:ASN:ND2	2.28	0.48
1:C:250:PRO:O	1:C:255:TRP:CE3	2.66	0.48
1:C:367:LEU:HD13	1:C:412:VAL:CG2	2.43	0.48
1:D:365:GLN:HA	1:D:416:GLY:HA3	1.95	0.48
2:D:809:NAG:C6	2:D:810:NAG:C6	2.92	0.48
1:A:2:TRP:HZ3	1:B:6:PRO:CG	2.27	0.48
1:A:241:ARG:HE	1:A:281:ILE:CD1	2.24	0.48
1:B:512:LEU:HD11	1:B:519:ASN:ND2	2.28	0.48
1:C:155:PRO:O	1:C:157:GLU:N	2.43	0.48
1:C:272:THR:CG2	1:C:273:THR:N	2.76	0.48
1:C:310:VAL:HG12	1:C:312:LEU:HG	1.95	0.48
1:D:310:VAL:HG12	1:D:312:LEU:HG	1.95	0.48
1:A:367:LEU:HD13	1:A:412:VAL:CG2	2.43	0.48
1:A:397:GLU:OE1	1:A:397:GLU:N	2.44	0.48
2:A:809:NAG:C6	2:A:810:NAG:C6	2.92	0.48
1:B:4:ILE:HA	1:B:5:PRO:HD3	1.72	0.48
1:B:67:ASP:OD2	1:B:69:GLU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:VAL:HG12	1:B:312:LEU:HG	1.95	0.48
1:C:41:GLN:HA	1:C:45:ASN:HB2	1.95	0.48
1:C:224:LYS:CE	2:C:806:NAG:C8	2.91	0.48
1:C:276:GLU:HG3	1:C:277:SER:N	2.25	0.48
1:D:155:PRO:O	1:D:157:GLU:N	2.43	0.48
1:D:397:GLU:OE1	1:D:397:GLU:N	2.45	0.48
1:A:28:LYS:CD	1:A:88:VAL:HG12	2.38	0.48
1:A:333:VAL:CB	1:A:334:PRO:CD	2.88	0.48
1:A:423:THR:HB	2:A:810:NAG:H83	1.93	0.48
1:B:76:LEU:O	1:B:94:ILE:N	2.44	0.48
2:B:809:NAG:C6	2:B:810:NAG:C6	2.92	0.48
1:C:273:THR:H	2:C:803:NAG:HN2	1.60	0.48
1:D:225:THR:HA	1:D:318:THR:O	2.14	0.48
1:A:537:ILE:CG1	1:A:538:LYS:N	2.77	0.48
1:B:273:THR:H	2:B:803:NAG:HN2	1.60	0.48
1:C:33:LYS:HB3	1:C:83:GLU:CG	2.40	0.48
1:C:367:LEU:H	1:C:367:LEU:HG	1.41	0.48
1:D:41:GLN:HA	1:D:45:ASN:HB2	1.95	0.48
1:D:250:PRO:O	1:D:255:TRP:CE3	2.67	0.48
1:D:266:GLY:N	1:D:268:PHE:CE2	2.76	0.48
1:D:352:ILE:HG13	1:D:388:VAL:CB	2.33	0.48
1:D:482:THR:HG22	1:D:482:THR:O	2.09	0.48
1:D:537:ILE:CG1	1:D:538:LYS:N	2.77	0.48
1:A:24:ILE:HD12	1:B:1:ASP:N	2.28	0.48
1:A:90:GLU:HB2	1:B:90:GLU:HB3	1.92	0.48
1:A:225:THR:HA	1:A:318:THR:O	2.14	0.48
1:A:250:PRO:O	1:A:255:TRP:CE3	2.66	0.48
1:A:310:VAL:HG12	1:A:312:LEU:HG	1.95	0.48
1:A:365:GLN:HA	1:A:416:GLY:HA3	1.95	0.48
2:A:812:NAG:O7	2:A:812:NAG:C1	2.60	0.48
1:B:250:PRO:O	1:B:255:TRP:CE3	2.67	0.48
1:C:266:GLY:N	1:C:268:PHE:CE2	2.76	0.48
1:D:68:ARG:HD3	1:D:100:ASP:CA	2.43	0.48
1:D:226:TYR:C	1:D:227:THR:HG23	2.33	0.48
1:D:261:ILE:CD1	1:D:264:ASN:ND2	2.77	0.48
1:A:68:ARG:HD3	1:A:100:ASP:CA	2.43	0.47
1:A:241:ARG:NE	1:A:281:ILE:HD12	2.22	0.47
1:B:224:LYS:CE	2:B:806:NAG:C8	2.91	0.47
1:B:365:GLN:O	1:B:365:GLN:CG	2.54	0.47
1:C:300:ILE:HD12	1:C:300:ILE:N	2.29	0.47
1:C:537:ILE:CG1	1:C:538:LYS:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:GLN:HA	1:A:45:ASN:HB2	1.95	0.47
1:B:418:SER:O	1:B:419:VAL:HG23	2.14	0.47
1:C:150:ILE:HD11	1:C:165:ILE:HB	1.96	0.47
1:C:225:THR:HA	1:C:318:THR:O	2.14	0.47
1:C:496:LEU:HD21	1:C:509:ILE:CD1	2.38	0.47
1:A:3:VAL:C	1:B:3:VAL:CG2	2.82	0.47
1:A:224:LYS:CE	2:A:806:NAG:C8	2.91	0.47
1:A:418:SER:O	1:A:419:VAL:HG23	2.14	0.47
1:A:514:SER:CA	1:A:517:GLN:O	2.62	0.47
1:B:36:TYR:O	1:B:55:TRP:HA	2.15	0.47
1:B:150:ILE:HD11	1:B:165:ILE:HB	1.96	0.47
1:C:154:ASP:CG	1:C:155:PRO:HD2	2.33	0.47
1:C:365:GLN:HA	1:C:416:GLY:HA3	1.95	0.47
1:D:514:SER:CA	1:D:517:GLN:O	2.62	0.47
1:A:50:VAL:HB	1:A:51:PHE:CD1	2.50	0.47
1:A:379:LEU:H	1:A:379:LEU:CD2	2.22	0.47
2:A:809:NAG:H61	2:A:810:NAG:C6	2.39	0.47
1:B:117:VAL:O	1:B:212:THR:N	2.46	0.47
1:B:514:SER:CA	1:B:517:GLN:O	2.62	0.47
1:D:246:ASP:C	1:D:247:LEU:HD12	2.35	0.47
1:D:301:THR:CG2	1:D:316:THR:HG23	2.45	0.47
1:D:371:ILE:HD12	1:D:371:ILE:HA	1.65	0.47
1:A:4:ILE:HA	1:A:5:PRO:HD3	1.72	0.47
1:A:119:GLU:OE2	1:A:216:ASP:OD1	2.32	0.47
1:A:151:LEU:O	1:A:152:LYS:HB2	2.13	0.47
1:B:224:LYS:HE3	2:B:806:NAG:H82	1.95	0.47
1:B:301:THR:CG2	1:B:316:THR:HG23	2.45	0.47
1:B:333:VAL:CB	1:B:334:PRO:CD	2.88	0.47
1:C:320:THR:CB	2:C:807:NAG:N2	2.78	0.47
1:C:514:SER:CA	1:C:517:GLN:O	2.62	0.47
1:D:281:ILE:O	1:D:281:ILE:HG23	2.13	0.47
1:D:300:ILE:HD12	1:D:300:ILE:N	2.30	0.47
1:A:4:ILE:CD1	1:B:1:ASP:O	2.62	0.47
1:A:36:TYR:O	1:A:55:TRP:HA	2.15	0.47
1:A:89:GLU:OE1	1:B:90:GLU:HG2	2.14	0.47
1:A:246:ASP:C	1:A:247:LEU:HD12	2.35	0.47
1:A:261:ILE:CD1	1:A:264:ASN:ND2	2.77	0.47
1:A:273:THR:H	2:A:803:NAG:HN2	1.60	0.47
1:B:225:THR:HA	1:B:318:THR:O	2.14	0.47
1:B:368:SER:OG	1:B:370:PHE:HE1	1.94	0.47
1:D:379:LEU:H	1:D:379:LEU:CD2	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ASN:O	1:A:534:GLY:CA	2.60	0.47
1:B:261:ILE:CD1	1:B:264:ASN:ND2	2.77	0.47
1:B:537:ILE:CG1	1:B:538:LYS:N	2.77	0.47
1:B:539:CYS:HB3	1:B:540:GLN:H	1.45	0.47
2:B:812:NAG:O7	2:B:812:NAG:C1	2.60	0.47
1:C:23:GLN:HB2	1:C:59:TRP:CE3	2.50	0.47
1:C:119:GLU:OE2	1:C:216:ASP:OD1	2.32	0.47
1:D:150:ILE:HD11	1:D:165:ILE:HB	1.96	0.47
1:A:300:ILE:HD12	1:A:300:ILE:N	2.29	0.47
1:B:33:LYS:HB3	1:B:83:GLU:CG	2.40	0.47
1:C:261:ILE:CD1	1:C:264:ASN:ND2	2.77	0.47
1:C:268:PHE:CA	1:C:285:ALA:HB3	2.45	0.47
1:C:301:THR:CG2	1:C:316:THR:HG23	2.45	0.47
1:D:226:TYR:O	1:D:227:THR:HG23	2.15	0.47
1:A:6:PRO:HD3	1:B:5:PRO:HG2	1.97	0.47
1:A:23:GLN:HB2	1:A:59:TRP:CE3	2.50	0.47
1:A:310:VAL:HG12	1:A:311:PRO:O	2.15	0.47
1:D:272:THR:HG23	2:D:803:NAG:HN2	1.80	0.47
1:D:418:SER:O	1:D:419:VAL:HG23	2.14	0.47
1:A:3:VAL:O	1:B:3:VAL:CG2	2.63	0.47
1:B:320:THR:CB	2:B:807:NAG:N2	2.78	0.47
1:B:366:LYS:HG2	1:B:367:LEU:H	1.75	0.47
1:B:367:LEU:HD13	1:B:412:VAL:CG2	2.43	0.47
1:C:108:PHE:HE1	1:C:203:VAL:HG23	1.80	0.47
1:C:246:ASP:C	1:C:247:LEU:HD12	2.35	0.47
1:C:373:ASN:CG	1:C:374:ASP:H	2.18	0.47
1:C:451:ASN:O	1:C:534:GLY:CA	2.60	0.47
1:D:36:TYR:O	1:D:55:TRP:HA	2.15	0.47
1:D:268:PHE:CA	1:D:285:ALA:HB3	2.45	0.47
1:D:374:ASP:N	1:D:374:ASP:OD1	2.49	0.47
1:A:93:GLU:O	1:B:2:TRP:C	2.53	0.46
1:A:268:PHE:CA	1:A:285:ALA:HB3	2.45	0.46
1:A:363:GLN:O	1:A:364:ILE:CG2	2.63	0.46
1:B:272:THR:HG23	2:B:803:NAG:HN2	1.80	0.46
1:C:226:TYR:O	1:C:227:THR:HG23	2.15	0.46
1:D:108:PHE:HE1	1:D:203:VAL:HG23	1.80	0.46
1:A:2:TRP:N	1:B:93:GLU:C	2.47	0.46
1:A:8:LYS:CD	1:A:8:LYS:N	2.51	0.46
1:B:41:GLN:HA	1:B:45:ASN:HB2	1.95	0.46
1:B:154:ASP:CG	1:B:155:PRO:HD2	2.33	0.46
1:B:374:ASP:N	1:B:374:ASP:OD1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:408:VAL:O	1:B:426:LEU:N	2.48	0.46
1:C:270:ASN:OD1	1:C:271:ILE:N	2.49	0.46
1:C:363:GLN:O	1:C:364:ILE:CG2	2.63	0.46
1:C:440:PRO:HB3	1:C:457:LEU:CD2	2.43	0.46
1:D:320:THR:CB	2:D:807:NAG:N2	2.78	0.46
1:D:440:PRO:HB3	1:D:457:LEU:CD2	2.43	0.46
1:D:506:ASP:OD1	1:D:506:ASP:N	2.49	0.46
1:A:301:THR:CG2	1:A:316:THR:HG23	2.45	0.46
1:A:320:THR:CB	2:A:807:NAG:N2	2.78	0.46
1:A:522:LEU:HB3	1:A:523:THR:H	1.57	0.46
1:B:448:CYS:SG	1:B:537:ILE:CG2	3.01	0.46
1:C:418:SER:O	1:C:419:VAL:HG23	2.14	0.46
1:D:271:ILE:HG23	1:D:271:ILE:O	2.15	0.46
1:D:374:ASP:C	1:D:375:PRO:O	2.54	0.46
1:D:415:ASP:CG	1:D:416:GLY:H	2.16	0.46
1:D:448:CYS:SG	1:D:537:ILE:CG2	3.01	0.46
1:A:270:ASN:OD1	1:A:271:ILE:N	2.49	0.46
1:A:373:ASN:CG	1:A:374:ASP:H	2.18	0.46
1:A:448:CYS:SG	1:A:537:ILE:CG2	3.01	0.46
1:B:226:TYR:O	1:B:227:THR:HG23	2.15	0.46
1:B:268:PHE:CA	1:B:285:ALA:HB3	2.45	0.46
1:B:373:ASN:CG	1:B:374:ASP:H	2.18	0.46
1:C:36:TYR:O	1:C:55:TRP:HA	2.15	0.46
1:C:100:ASP:OD1	1:C:101:GLN:N	2.49	0.46
1:C:374:ASP:C	1:C:375:PRO:O	2.54	0.46
1:D:50:VAL:HB	1:D:51:PHE:CD1	2.50	0.46
1:A:90:GLU:HB2	1:B:90:GLU:C	2.35	0.46
1:A:408:VAL:O	1:A:426:LEU:N	2.49	0.46
1:A:496:LEU:HD21	1:A:509:ILE:CD1	2.38	0.46
1:B:241:ARG:HE	1:B:281:ILE:CD1	2.24	0.46
1:B:481:LEU:HA	1:B:481:LEU:HD12	1.50	0.46
1:C:271:ILE:HG23	1:C:271:ILE:O	2.15	0.46
1:C:374:ASP:N	1:C:374:ASP:OD1	2.49	0.46
1:D:252:THR:HA	1:D:253:PRO:HD3	1.81	0.46
1:D:270:ASN:OD1	1:D:271:ILE:N	2.49	0.46
1:D:310:VAL:HG12	1:D:311:PRO:O	2.15	0.46
1:D:363:GLN:O	1:D:364:ILE:CG2	2.64	0.46
1:D:450:GLN:CB	1:D:533:GLU:HA	2.29	0.46
1:A:298:LEU:N	1:A:298:LEU:CD2	2.75	0.46
1:A:374:ASP:N	1:A:374:ASP:OD1	2.49	0.46
1:B:100:ASP:OD1	1:B:101:GLN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:108:PHE:HE1	1:B:203:VAL:HG23	1.80	0.46
1:B:363:GLN:O	1:B:364:ILE:CG2	2.63	0.46
1:C:50:VAL:HB	1:C:51:PHE:CD1	2.50	0.46
1:D:54:GLU:HB2	1:D:57:THR:OG1	2.16	0.46
1:A:54:GLU:HB2	1:A:57:THR:OG1	2.16	0.46
1:A:100:ASP:OD1	1:A:101:GLN:N	2.49	0.46
1:A:155:PRO:CB	2:A:801:NAG:C8	2.94	0.46
1:A:271:ILE:HG23	1:A:271:ILE:O	2.15	0.46
1:A:511:VAL:N	1:A:523:THR:O	2.46	0.46
1:B:50:VAL:HB	1:B:51:PHE:CD1	2.50	0.46
1:B:270:ASN:OD1	1:B:271:ILE:N	2.49	0.46
1:B:449:ASP:CB	1:B:532:CYS:H	2.22	0.46
1:B:459:ILE:HD12	1:B:459:ILE:N	2.31	0.46
1:B:524:VAL:HG21	2:B:904:NAG:C8	2.44	0.46
1:C:448:CYS:SG	1:C:537:ILE:CG2	3.01	0.46
1:D:23:GLN:HB2	1:D:59:TRP:CE3	2.50	0.46
1:D:187:TYR:HE1	1:D:211:ILE:HD11	1.81	0.46
1:D:282:LEU:CD2	1:D:283:THR:N	2.76	0.46
1:A:109:THR:CB	1:A:131:SER:HB2	2.46	0.46
1:A:449:ASP:CB	1:A:532:CYS:H	2.22	0.46
1:B:246:ASP:C	1:B:247:LEU:HD12	2.35	0.46
1:B:300:ILE:HD12	1:B:300:ILE:N	2.29	0.46
1:C:155:PRO:CB	2:C:801:NAG:C8	2.94	0.46
1:C:187:TYR:HE1	1:C:211:ILE:HD11	1.81	0.46
1:C:506:ASP:OD1	1:C:506:ASP:N	2.49	0.46
1:D:109:THR:CB	1:D:131:SER:HB2	2.46	0.46
1:A:226:TYR:O	1:A:227:THR:HG23	2.15	0.46
1:A:252:THR:HA	1:A:253:PRO:HD3	1.81	0.46
1:B:262:ARG:HG3	1:B:299:GLN:HB2	1.98	0.46
1:C:117:VAL:O	1:C:212:THR:N	2.46	0.46
1:C:272:THR:HG23	2:C:803:NAG:HN2	1.80	0.46
1:C:421:THR:HG21	2:C:809:NAG:H61	1.98	0.46
1:D:298:LEU:N	1:D:298:LEU:CD2	2.75	0.46
1:D:449:ASP:CB	1:D:532:CYS:H	2.22	0.46
1:D:459:ILE:N	1:D:459:ILE:HD12	2.31	0.46
1:A:117:VAL:O	1:A:212:THR:N	2.46	0.46
1:B:227:THR:N	2:B:812:NAG:H2	2.31	0.46
1:B:440:PRO:HB3	1:B:457:LEU:CD2	2.43	0.46
1:C:450:GLN:CB	1:C:533:GLU:OE2	2.64	0.46
1:D:100:ASP:OD1	1:D:101:GLN:N	2.49	0.46
1:D:262:ARG:HG3	1:D:299:GLN:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:VAL:HG11	1:A:351:ILE:HG23	1.98	0.45
1:A:483:TRP:CZ2	1:A:507:TYR:CE1	2.87	0.45
1:B:54:GLU:HB2	1:B:57:THR:OG1	2.16	0.45
1:B:128:MET:HB3	1:B:129:ALA:H	1.62	0.45
2:B:809:NAG:H61	2:B:810:NAG:C6	2.39	0.45
1:C:152:LYS:O	1:C:189:LEU:HA	2.17	0.45
1:C:310:VAL:HG12	1:C:311:PRO:O	2.15	0.45
1:C:459:ILE:HD12	1:C:459:ILE:N	2.31	0.45
2:C:805:NAG:C5	2:C:806:NAG:H83	2.46	0.45
1:D:380:THR:CG2	1:D:381:VAL:N	2.79	0.45
1:D:450:GLN:CB	1:D:533:GLU:OE2	2.64	0.45
1:D:461:ASP:HB3	1:D:468:THR:CG2	2.46	0.45
1:B:8:LYS:CD	1:B:8:LYS:N	2.51	0.45
1:B:23:GLN:HB2	1:B:59:TRP:CE3	2.50	0.45
1:B:187:TYR:HE1	1:B:211:ILE:HD11	1.81	0.45
1:B:227:THR:HG22	1:B:320:THR:HB	1.98	0.45
1:B:310:VAL:HG12	1:B:311:PRO:O	2.15	0.45
1:B:339:VAL:HG11	1:B:351:ILE:HG23	1.98	0.45
1:B:450:GLN:CB	1:B:533:GLU:OE2	2.64	0.45
1:B:506:ASP:OD1	1:B:506:ASP:N	2.49	0.45
1:D:373:ASN:CG	1:D:374:ASP:H	2.18	0.45
1:A:152:LYS:O	1:A:189:LEU:HA	2.17	0.45
1:A:450:GLN:CB	1:A:533:GLU:OE2	2.64	0.45
1:A:473:VAL:CG2	1:A:487:LEU:HD21	2.46	0.45
1:C:408:VAL:O	1:C:426:LEU:N	2.49	0.45
1:C:473:VAL:CG2	1:C:487:LEU:HD21	2.46	0.45
1:D:312:LEU:O	3:D:804:NDG:H8C1	2.17	0.45
1:D:468:THR:C	1:D:469:TYR:O	2.54	0.45
1:A:187:TYR:HE1	1:A:211:ILE:HD11	1.81	0.45
1:B:461:ASP:HB3	1:B:468:THR:CG2	2.46	0.45
1:C:339:VAL:HG11	1:C:351:ILE:HG23	1.98	0.45
1:C:380:THR:CG2	1:C:381:VAL:N	2.79	0.45
1:C:380:THR:HG22	1:C:381:VAL:N	2.32	0.45
1:D:227:THR:N	2:D:812:NAG:H2	2.31	0.45
1:A:95:THR:N	1:B:2:TRP:CZ3	2.85	0.45
1:A:227:THR:N	2:A:812:NAG:H2	2.31	0.45
1:A:468:THR:C	1:A:469:TYR:O	2.54	0.45
1:A:519:ASN:CG	1:A:519:ASN:O	2.55	0.45
1:B:271:ILE:O	1:B:271:ILE:HG23	2.15	0.45
1:B:286:LYS:C	1:B:287:GLY:O	2.55	0.45
1:C:461:ASP:HB3	1:C:468:THR:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:GLU:HG3	1:A:277:SER:N	2.25	0.45
1:A:286:LYS:C	1:A:287:GLY:O	2.55	0.45
1:A:421:THR:HG21	2:A:809:NAG:H61	1.98	0.45
1:A:459:ILE:N	1:A:459:ILE:HD12	2.31	0.45
2:A:805:NAG:C5	2:A:806:NAG:H83	2.46	0.45
1:B:469:TYR:CD2	1:B:470:PRO:N	2.85	0.45
1:C:109:THR:HB	1:C:131:SER:HB2	1.99	0.45
1:C:194:THR:CG2	1:C:195:ASP:N	2.79	0.45
1:C:227:THR:N	2:C:812:NAG:H2	2.31	0.45
1:C:482:THR:O	1:C:483:TRP:CD2	2.70	0.45
1:D:194:THR:CG2	1:D:195:ASP:N	2.79	0.45
1:D:339:VAL:HG11	1:D:351:ILE:HG23	1.98	0.45
1:D:380:THR:HG22	1:D:381:VAL:N	2.32	0.45
1:A:262:ARG:HG3	1:A:299:GLN:HB2	1.98	0.45
1:A:381:VAL:HA	1:A:387:ILE:O	2.16	0.45
1:A:485:ALA:O	1:A:486:GLU:OE1	2.35	0.45
1:B:152:LYS:O	1:B:189:LEU:HA	2.17	0.45
1:B:381:VAL:HA	1:B:387:ILE:O	2.16	0.45
1:B:468:THR:C	1:B:469:TYR:O	2.54	0.45
1:C:261:ILE:HD11	1:C:264:ASN:ND2	2.32	0.45
1:C:286:LYS:C	1:C:287:GLY:O	2.55	0.45
2:C:805:NAG:H62	2:C:806:NAG:N2	2.31	0.45
1:A:134:ASP:HB2	1:A:146:LEU:HD11	1.99	0.45
1:B:162:LEU:HB2	1:B:163:PHE:CE1	2.52	0.45
1:B:374:ASP:C	1:B:375:PRO:O	2.54	0.45
2:B:805:NAG:H62	2:B:806:NAG:N2	2.31	0.45
1:C:54:GLU:HB2	1:C:57:THR:OG1	2.16	0.45
1:C:162:LEU:HB2	1:C:163:PHE:CE1	2.52	0.45
1:C:227:THR:HG22	1:C:320:THR:HB	1.98	0.45
1:D:368:SER:OG	1:D:370:PHE:HE1	1.94	0.45
1:D:469:TYR:CD2	1:D:470:PRO:N	2.85	0.45
1:D:482:THR:O	1:D:483:TRP:CD2	2.70	0.45
1:A:194:THR:CG2	1:A:195:ASP:N	2.79	0.45
1:A:227:THR:HG22	1:A:320:THR:HB	1.98	0.45
1:B:194:THR:CG2	1:B:195:ASP:N	2.79	0.45
1:B:312:LEU:O	3:B:804:NDG:H8C1	2.17	0.45
1:B:522:LEU:HA	1:B:522:LEU:HD23	1.36	0.45
1:C:262:ARG:HG3	1:C:299:GLN:HB2	1.98	0.45
1:A:24:ILE:HG21	1:B:1:ASP:H2	1.82	0.45
1:A:506:ASP:OD1	1:A:506:ASP:N	2.49	0.45
1:B:249:MET:HA	1:B:250:PRO:HD3	1.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:473:VAL:CG2	1:B:487:LEU:HD21	2.47	0.45
1:C:25:LYS:HB2	1:D:3:VAL:HG11	1.62	0.45
1:C:519:ASN:CG	1:C:519:ASN:O	2.55	0.45
1:D:32:ASN:ND2	1:D:83:GLU:CB	2.62	0.45
1:D:286:LYS:C	1:D:287:GLY:O	2.55	0.45
1:D:381:VAL:HA	1:D:387:ILE:O	2.17	0.45
1:D:396:ARG:NH2	1:D:464:ILE:HG22	2.12	0.45
1:D:449:ASP:N	1:D:532:CYS:HB3	2.19	0.45
1:D:473:VAL:CG2	1:D:487:LEU:HD21	2.47	0.45
1:A:380:THR:CG2	1:A:381:VAL:N	2.79	0.44
1:B:109:THR:CB	1:B:131:SER:HB2	2.46	0.44
1:B:109:THR:HB	1:B:131:SER:HB2	1.99	0.44
1:B:134:ASP:HB2	1:B:146:LEU:HD11	1.99	0.44
1:B:380:THR:HG22	1:B:381:VAL:N	2.32	0.44
1:B:519:ASN:O	1:B:519:ASN:CG	2.55	0.44
1:C:92:MET:CB	1:D:2:TRP:HD1	2.29	0.44
1:C:371:ILE:HD13	1:C:381:VAL:HG11	1.95	0.44
1:D:152:LYS:O	1:D:189:LEU:HA	2.17	0.44
1:D:408:VAL:O	1:D:426:LEU:N	2.49	0.44
1:D:421:THR:HG21	2:D:809:NAG:H61	1.98	0.44
1:D:485:ALA:O	1:D:486:GLU:OE1	2.35	0.44
1:A:261:ILE:HD11	1:A:264:ASN:ND2	2.32	0.44
1:A:426:LEU:HD13	1:A:426:LEU:C	2.37	0.44
1:B:367:LEU:H	1:B:367:LEU:HG	1.41	0.44
1:C:3:VAL:HB	1:C:4:ILE:H	1.51	0.44
1:C:109:THR:CB	1:C:131:SER:HB2	2.46	0.44
1:A:2:TRP:CE3	1:B:6:PRO:HG3	2.52	0.44
1:A:67:ASP:OD1	1:A:69:GLU:HB2	2.18	0.44
1:A:482:THR:O	1:A:483:TRP:CD2	2.70	0.44
1:B:336:VAL:HG11	1:B:338:ARG:HD2	1.99	0.44
1:B:380:THR:CG2	1:B:381:VAL:N	2.79	0.44
1:C:187:TYR:CE1	1:C:211:ILE:HD11	2.52	0.44
1:C:381:VAL:HA	1:C:387:ILE:O	2.16	0.44
1:D:227:THR:HG22	1:D:320:THR:HB	1.98	0.44
1:D:366:LYS:HG2	1:D:367:LEU:H	1.75	0.44
1:A:162:LEU:HB2	1:A:163:PHE:CE1	2.52	0.44
1:A:272:THR:HG23	2:A:803:NAG:HN2	1.81	0.44
1:A:380:THR:HG22	1:A:381:VAL:N	2.32	0.44
1:A:469:TYR:CD2	1:A:470:PRO:N	2.85	0.44
1:B:469:TYR:CE2	1:B:470:PRO:HB2	2.52	0.44
1:C:134:ASP:HB2	1:C:146:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:469:TYR:CD2	1:C:470:PRO:N	2.85	0.44
1:D:469:TYR:CE2	1:D:470:PRO:HB2	2.52	0.44
1:A:540:GLN:O	1:A:540:GLN:NE2	2.47	0.44
1:B:187:TYR:CE1	1:B:211:ILE:HD11	2.52	0.44
1:B:335:ALA:HB1	3:B:811:NDG:H6	1.76	0.44
1:B:435:ASP:HB2	1:B:436:ASN:H	1.59	0.44
1:C:86:SER:HA	1:C:87:PRO:HD3	1.83	0.44
1:C:333:VAL:CB	1:C:334:PRO:CD	2.88	0.44
1:C:461:ASP:HB3	1:C:468:THR:HG22	2.00	0.44
1:C:524:VAL:HG21	2:C:904:NAG:C8	2.44	0.44
1:D:261:ILE:HD11	1:D:264:ASN:ND2	2.32	0.44
1:D:421:THR:CG2	1:D:422:GLY:N	2.81	0.44
2:D:805:NAG:H62	2:D:806:NAG:N2	2.31	0.44
1:A:374:ASP:C	1:A:375:PRO:O	2.54	0.44
1:A:442:PRO:HD2	1:A:457:LEU:HD12	2.00	0.44
1:C:336:VAL:HG11	1:C:338:ARG:HD2	1.99	0.44
1:C:481:LEU:HD12	1:C:481:LEU:HA	1.50	0.44
1:D:442:PRO:HD2	1:D:457:LEU:HD12	2.00	0.44
1:A:3:VAL:O	1:B:3:VAL:HB	2.16	0.44
1:A:92:MET:SD	1:B:3:VAL:N	2.90	0.44
1:A:108:PHE:HE1	1:A:203:VAL:HG23	1.80	0.44
1:A:127:VAL:HG13	1:A:128:MET:N	2.25	0.44
1:A:187:TYR:CE1	1:A:211:ILE:HD11	2.52	0.44
1:A:194:THR:HG23	1:A:201:LEU:O	2.18	0.44
1:B:127:VAL:HG13	1:B:128:MET:N	2.25	0.44
1:B:261:ILE:HD11	1:B:264:ASN:ND2	2.32	0.44
1:B:421:THR:HG21	2:B:809:NAG:H61	1.98	0.44
1:B:442:PRO:HD2	1:B:457:LEU:HD12	2.00	0.44
1:B:482:THR:O	1:B:483:TRP:CD2	2.70	0.44
1:B:485:ALA:O	1:B:486:GLU:OE1	2.35	0.44
1:D:162:LEU:HB2	1:D:163:PHE:CE1	2.52	0.44
1:D:461:ASP:HB3	1:D:468:THR:HG22	2.00	0.44
1:A:27:ASN:ND2	1:A:28:LYS:N	2.50	0.44
1:A:109:THR:HB	1:A:131:SER:HB2	1.99	0.44
1:A:128:MET:HB3	1:A:129:ALA:H	1.62	0.44
1:A:154:ASP:HB3	2:A:801:NAG:C7	2.48	0.44
1:A:299:GLN:CG	1:A:318:THR:HG23	2.42	0.44
1:A:461:ASP:HB3	1:A:468:THR:CG2	2.46	0.44
1:B:290:PHE:CD2	1:B:293:ARG:O	2.71	0.44
1:C:232:GLU:HA	1:C:288:LEU:HD12	1.99	0.44
1:C:415:ASP:CG	1:C:416:GLY:H	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:469:TYR:CE2	1:C:470:PRO:HB2	2.52	0.44
1:D:151:LEU:HD12	1:D:151:LEU:N	2.33	0.44
1:D:220:ILE:O	1:D:220:ILE:HG22	2.18	0.44
1:D:336:VAL:HG11	1:D:338:ARG:HD2	1.99	0.44
1:A:95:THR:N	1:B:2:TRP:CE3	2.86	0.44
1:A:232:GLU:HA	1:A:288:LEU:HD12	1.99	0.44
1:A:335:ALA:HB1	3:A:811:NDG:H6	1.71	0.44
1:A:450:GLN:HG3	1:A:532:CYS:O	2.10	0.44
1:B:220:ILE:O	1:B:220:ILE:HG22	2.18	0.44
1:C:426:LEU:HD13	1:C:426:LEU:C	2.37	0.44
1:C:514:SER:HG	1:C:519:ASN:HA	1.82	0.44
1:A:24:ILE:HG21	1:B:1:ASP:N	2.33	0.43
1:A:239:VAL:HG13	1:A:240:GLN:N	2.33	0.43
1:A:247:LEU:HD12	1:A:247:LEU:N	2.33	0.43
1:A:290:PHE:CD2	1:A:293:ARG:O	2.71	0.43
1:A:368:SER:CB	1:A:370:PHE:HE1	2.31	0.43
1:A:419:VAL:HG13	1:A:420:GLY:N	2.33	0.43
1:B:354:LEU:HD12	1:B:386:GLY:O	2.18	0.43
1:B:426:LEU:HD13	1:B:426:LEU:C	2.37	0.43
1:C:22:VAL:CG2	1:C:23:GLN:N	2.81	0.43
1:C:290:PHE:CD2	1:C:293:ARG:O	2.71	0.43
1:D:232:GLU:HA	1:D:288:LEU:HD12	2.00	0.43
1:A:260:LYS:HB3	1:A:260:LYS:HE3	1.81	0.43
1:A:312:LEU:O	3:A:804:NDG:H8C1	2.17	0.43
1:A:441:SER:CB	1:A:442:PRO:HD3	2.47	0.43
1:A:469:TYR:CE2	1:A:470:PRO:HB2	2.52	0.43
2:A:805:NAG:H62	2:A:806:NAG:N2	2.31	0.43
1:B:224:LYS:HE3	2:B:806:NAG:C8	2.48	0.43
1:B:247:LEU:HD12	1:B:247:LEU:N	2.33	0.43
1:B:297:VAL:HG21	2:B:807:NAG:H62	2.01	0.43
1:C:354:LEU:HD12	1:C:386:GLY:O	2.18	0.43
1:D:27:ASN:ND2	1:D:28:LYS:N	2.50	0.43
1:D:524:VAL:HG21	2:D:904:NAG:C8	2.44	0.43
1:A:3:VAL:HG11	1:B:4:ILE:HD12	1.83	0.43
1:A:24:ILE:CG2	1:B:1:ASP:H2	2.31	0.43
1:A:32:ASN:HD22	1:A:83:GLU:N	2.13	0.43
1:A:272:THR:CG2	1:A:273:THR:N	2.76	0.43
1:B:1:ASP:CG	1:B:2:TRP:N	2.70	0.43
1:B:90:GLU:O	1:B:91:PRO:O	2.37	0.43
1:C:90:GLU:O	1:C:91:PRO:O	2.37	0.43
1:C:368:SER:CB	1:C:370:PHE:HE1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:155:PRO:CB	2:D:801:NAG:C8	2.94	0.43
1:D:187:TYR:CE1	1:D:211:ILE:HD11	2.52	0.43
1:D:194:THR:HG23	1:D:201:LEU:O	2.18	0.43
1:D:224:LYS:HE3	2:D:806:NAG:C8	2.48	0.43
1:D:426:LEU:HD13	1:D:426:LEU:C	2.37	0.43
1:A:90:GLU:HG3	1:B:89:GLU:CD	2.30	0.43
1:A:354:LEU:HD12	1:A:386:GLY:O	2.18	0.43
1:A:421:THR:CG2	1:A:422:GLY:N	2.81	0.43
1:A:539:CYS:HB3	1:A:540:GLN:H	1.45	0.43
2:B:805:NAG:C5	2:B:806:NAG:H83	2.46	0.43
1:C:32:ASN:ND2	1:C:83:GLU:CB	2.62	0.43
1:C:194:THR:HG23	1:C:201:LEU:O	2.18	0.43
1:C:312:LEU:O	3:C:804:NDG:H8C1	2.17	0.43
1:C:442:PRO:HD2	1:C:457:LEU:HD12	2.00	0.43
1:D:128:MET:HB3	1:D:129:ALA:H	1.62	0.43
1:D:134:ASP:HB2	1:D:146:LEU:HD11	1.99	0.43
1:D:290:PHE:CD2	1:D:293:ARG:O	2.71	0.43
1:D:354:LEU:HD12	1:D:386:GLY:O	2.18	0.43
1:D:539:CYS:HB3	1:D:540:GLN:H	1.46	0.43
1:A:92:MET:SD	1:B:2:TRP:C	2.97	0.43
1:B:67:ASP:OD1	1:B:69:GLU:HB2	2.18	0.43
1:B:482:THR:HG22	1:B:499:THR:H	1.70	0.43
1:C:421:THR:CG2	1:C:422:GLY:N	2.81	0.43
1:C:441:SER:CB	1:C:442:PRO:HD3	2.47	0.43
1:C:485:ALA:O	1:C:486:GLU:OE1	2.35	0.43
1:A:151:LEU:HD12	1:A:151:LEU:N	2.33	0.43
1:A:224:LYS:HE3	2:A:806:NAG:C8	2.48	0.43
1:A:439:VAL:HA	1:A:440:PRO:HD3	1.81	0.43
1:B:154:ASP:HB3	2:B:801:NAG:C7	2.48	0.43
1:B:232:GLU:HA	1:B:288:LEU:HD12	1.99	0.43
1:B:461:ASP:HB3	1:B:468:THR:HG22	2.00	0.43
1:C:32:ASN:HD22	1:C:83:GLU:N	2.13	0.43
1:C:67:ASP:OD1	1:C:69:GLU:HB2	2.18	0.43
1:D:22:VAL:CG2	1:D:23:GLN:N	2.81	0.43
1:D:272:THR:CG2	1:D:273:THR:N	2.76	0.43
1:D:441:SER:CB	1:D:442:PRO:HD3	2.47	0.43
1:A:367:LEU:H	1:A:367:LEU:HG	1.41	0.43
1:A:518:ASN:C	1:A:520:PRO:CD	2.87	0.43
1:A:524:VAL:HG21	2:A:904:NAG:C8	2.44	0.43
1:B:22:VAL:CG2	1:B:23:GLN:N	2.81	0.43
1:B:155:PRO:CB	2:B:801:NAG:C8	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:194:THR:HG23	1:B:201:LEU:O	2.18	0.43
1:B:333:VAL:HG23	1:B:334:PRO:HD3	2.01	0.43
1:B:415:ASP:CG	1:B:416:GLY:H	2.16	0.43
2:B:810:NAG:O7	2:B:810:NAG:C1	2.67	0.43
1:D:67:ASP:OD1	1:D:69:GLU:HB2	2.18	0.43
1:B:239:VAL:HG13	1:B:240:GLN:N	2.33	0.43
1:B:368:SER:CB	1:B:370:PHE:HE1	2.31	0.43
1:B:371:ILE:HD13	1:B:381:VAL:HG11	1.95	0.43
1:B:371:ILE:HG13	1:B:410:MET:SD	2.59	0.43
1:D:378:TRP:HB2	1:D:379:LEU:H	1.64	0.43
1:A:1:ASP:OD2	1:B:93:GLU:HB3	1.79	0.43
1:A:188:THR:H	2:A:801:NAG:H83	1.84	0.43
1:A:336:VAL:HG11	1:A:338:ARG:HD2	1.99	0.43
1:A:469:TYR:CE2	1:A:470:PRO:HD2	2.54	0.43
1:B:378:TRP:HB2	1:B:379:LEU:H	1.64	0.43
1:B:441:SER:CB	1:B:442:PRO:HD3	2.47	0.43
1:C:60:MET:SD	1:D:2:TRP:HH2	2.41	0.43
1:C:366:LYS:HG2	1:C:367:LEU:H	1.75	0.43
1:D:40:GLY:O	1:D:45:ASN:HB2	2.19	0.43
1:D:175:ILE:CG2	1:D:176:GLY:N	2.82	0.43
1:A:2:TRP:CE3	1:B:95:THR:CB	3.02	0.43
1:A:22:VAL:CG2	1:A:23:GLN:N	2.80	0.43
1:A:40:GLY:O	1:A:45:ASN:HB2	2.19	0.43
1:A:90:GLU:O	1:A:91:PRO:O	2.37	0.43
1:A:339:VAL:HG21	1:A:351:ILE:HG22	2.01	0.43
1:A:371:ILE:HD13	1:A:381:VAL:HG11	1.95	0.43
1:B:40:GLY:O	1:B:45:ASN:HB2	2.19	0.43
1:C:4:ILE:HA	1:C:5:PRO:HD3	1.72	0.43
1:C:220:ILE:O	1:C:220:ILE:HG22	2.18	0.43
1:C:224:LYS:HE3	2:C:806:NAG:C8	2.48	0.43
1:C:518:ASN:C	1:C:520:PRO:CD	2.87	0.43
1:D:247:LEU:HD12	1:D:247:LEU:N	2.33	0.43
1:D:519:ASN:CG	1:D:519:ASN:O	2.55	0.43
1:A:250:PRO:HA	1:A:255:TRP:CG	2.54	0.42
1:A:333:VAL:HG23	1:A:334:PRO:HD3	2.01	0.42
2:A:810:NAG:O7	2:A:810:NAG:C1	2.67	0.42
1:B:396:ARG:NH2	1:B:464:ILE:HG22	2.12	0.42
1:B:419:VAL:HG13	1:B:420:GLY:N	2.33	0.42
1:C:5:PRO:HA	1:C:6:PRO:HD3	1.86	0.42
1:C:40:GLY:O	1:C:45:ASN:HB2	2.19	0.42
1:C:128:MET:HB3	1:C:129:ALA:H	1.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:188:THR:H	2:C:801:NAG:H83	1.84	0.42
1:C:247:LEU:HD12	1:C:247:LEU:N	2.33	0.42
1:C:297:VAL:HG21	2:C:807:NAG:H62	2.01	0.42
1:C:409:ILE:HD13	3:C:811:NDG:H8C3	2.01	0.42
1:C:419:VAL:HG13	1:C:420:GLY:N	2.33	0.42
1:D:297:VAL:HG21	2:D:807:NAG:H62	2.01	0.42
1:D:344:ASP:O	1:D:344:ASP:CG	2.57	0.42
1:D:371:ILE:HG13	1:D:410:MET:SD	2.59	0.42
1:D:518:ASN:C	1:D:520:PRO:CD	2.87	0.42
1:A:175:ILE:CG2	1:A:176:GLY:N	2.82	0.42
1:A:195:ASP:HB3	1:A:196:LEU:HG	2.01	0.42
1:A:344:ASP:O	1:A:344:ASP:CG	2.57	0.42
1:B:151:LEU:HD12	1:B:151:LEU:N	2.33	0.42
1:B:490:LYS:O	1:B:490:LYS:CG	2.67	0.42
1:B:518:ASN:C	1:B:520:PRO:CD	2.87	0.42
1:C:27:ASN:ND2	1:C:28:LYS:N	2.50	0.42
1:C:250:PRO:HA	1:C:255:TRP:CG	2.55	0.42
1:D:86:SER:HA	1:D:87:PRO:HD3	1.83	0.42
1:D:109:THR:HB	1:D:131:SER:HB2	1.99	0.42
1:D:239:VAL:HG13	1:D:240:GLN:N	2.34	0.42
1:D:333:VAL:HG23	1:D:334:PRO:HD3	2.01	0.42
1:D:347:ARG:HG3	1:D:392:GLY:N	2.33	0.42
1:A:3:VAL:HA	1:B:3:VAL:HB	2.00	0.42
1:A:220:ILE:O	1:A:220:ILE:HG22	2.18	0.42
1:A:461:ASP:HB3	1:A:468:THR:HG22	2.00	0.42
1:A:515:ASP:OD1	1:A:516:ALA:N	2.53	0.42
1:B:188:THR:H	2:B:801:NAG:H83	1.84	0.42
1:B:320:THR:CG2	2:B:807:NAG:C2	2.76	0.42
1:B:371:ILE:HD12	1:B:371:ILE:HA	1.65	0.42
1:C:241:ARG:HE	1:C:281:ILE:CD1	2.24	0.42
1:C:333:VAL:HG23	1:C:334:PRO:HD3	2.01	0.42
1:C:490:LYS:O	1:C:490:LYS:CG	2.67	0.42
1:D:188:THR:H	2:D:801:NAG:H83	1.84	0.42
1:D:469:TYR:CE2	1:D:470:PRO:HD2	2.54	0.42
1:D:522:LEU:HB3	1:D:523:THR:H	1.57	0.42
1:A:371:ILE:HG13	1:A:410:MET:SD	2.59	0.42
1:A:371:ILE:HA	1:A:410:MET:HB3	2.02	0.42
1:B:5:PRO:HA	1:B:6:PRO:HD3	1.85	0.42
1:B:33:LYS:NZ	1:B:56:GLU:OE1	2.42	0.42
1:B:339:VAL:HG21	1:B:351:ILE:HG22	2.01	0.42
1:B:421:THR:CG2	1:B:422:GLY:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:511:VAL:N	1:B:523:THR:O	2.46	0.42
1:C:175:ILE:CG2	1:C:176:GLY:N	2.82	0.42
1:C:396:ARG:NH2	1:C:464:ILE:HG22	2.12	0.42
1:D:90:GLU:O	1:D:91:PRO:O	2.37	0.42
1:D:195:ASP:HB3	1:D:196:LEU:HG	2.01	0.42
1:D:347:ARG:HD2	1:D:392:GLY:CA	2.50	0.42
1:D:371:ILE:HD13	1:D:381:VAL:HG11	1.95	0.42
1:D:540:GLN:O	1:D:540:GLN:NE2	2.47	0.42
2:D:805:NAG:C5	2:D:806:NAG:H83	2.46	0.42
1:A:138:ASN:C	1:A:138:ASN:ND2	2.73	0.42
1:A:264:ASN:HB3	1:A:267:GLY:HA2	2.01	0.42
1:A:449:ASP:N	1:A:532:CYS:HB3	2.19	0.42
1:B:250:PRO:HA	1:B:255:TRP:CG	2.54	0.42
1:B:264:ASN:HB3	1:B:267:GLY:HA2	2.01	0.42
1:B:371:ILE:HA	1:B:410:MET:HB3	2.02	0.42
2:D:810:NAG:O7	2:D:810:NAG:C1	2.67	0.42
1:A:261:ILE:HD13	1:A:261:ILE:H	1.84	0.42
1:A:513:LEU:C	1:A:514:SER:HG	2.23	0.42
1:B:299:GLN:CG	1:B:318:THR:HG23	2.42	0.42
1:B:439:VAL:HA	1:B:440:PRO:HD3	1.81	0.42
1:B:515:ASP:OD1	1:B:516:ALA:N	2.53	0.42
1:C:154:ASP:HB3	2:C:801:NAG:C7	2.48	0.42
1:C:264:ASN:HB3	1:C:267:GLY:HA2	2.01	0.42
1:C:468:THR:C	1:C:469:TYR:O	2.54	0.42
1:D:230:VAL:O	1:D:323:VAL:HA	2.20	0.42
1:A:3:VAL:C	1:B:4:ILE:O	2.19	0.42
1:B:7:ILE:O	1:B:96:ILE:HG23	2.20	0.42
1:B:344:ASP:CG	1:B:344:ASP:O	2.57	0.42
1:C:230:VAL:O	1:C:323:VAL:HA	2.20	0.42
1:C:239:VAL:HG13	1:C:240:GLN:N	2.34	0.42
1:C:339:VAL:HG21	1:C:351:ILE:HG22	2.01	0.42
1:C:371:ILE:HD12	1:C:371:ILE:HA	1.65	0.42
1:C:371:ILE:HG13	1:C:410:MET:SD	2.59	0.42
1:C:502:LEU:HA	1:C:502:LEU:HD23	1.82	0.42
1:D:261:ILE:HD13	1:D:261:ILE:H	1.85	0.42
1:D:409:ILE:HD13	3:D:811:NDG:H8C3	2.01	0.42
1:A:409:ILE:HD13	3:A:811:NDG:H8C3	2.01	0.42
1:A:505:GLY:H	1:A:529:VAL:HB	1.85	0.42
1:B:195:ASP:HB3	1:B:196:LEU:HG	2.01	0.42
1:B:505:GLY:H	1:B:529:VAL:HB	1.85	0.42
1:C:195:ASP:HB3	1:C:196:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:VAL:HG11	1:A:282:LEU:HD22	2.02	0.42
1:A:297:VAL:HG21	2:A:807:NAG:H62	2.01	0.42
1:B:67:ASP:CG	1:B:69:GLU:HB2	2.40	0.42
1:B:175:ILE:CG2	1:B:176:GLY:N	2.82	0.42
1:B:230:VAL:O	1:B:323:VAL:HA	2.20	0.42
1:B:231:PRO:O	1:B:288:LEU:HD12	2.20	0.42
1:C:378:TRP:HB2	1:C:379:LEU:H	1.64	0.42
1:C:483:TRP:CZ2	1:C:507:TYR:CE1	2.87	0.42
1:D:108:PHE:HA	1:D:132:ALA:CB	2.50	0.42
1:D:117:VAL:O	1:D:212:THR:N	2.46	0.42
1:A:230:VAL:O	1:A:323:VAL:HA	2.20	0.42
1:A:231:PRO:O	1:A:288:LEU:HD12	2.20	0.42
1:A:347:ARG:HD2	1:A:392:GLY:CA	2.49	0.42
1:A:347:ARG:HG3	1:A:392:GLY:N	2.33	0.42
1:A:490:LYS:O	1:A:490:LYS:CG	2.67	0.42
1:B:27:ASN:ND2	1:B:28:LYS:N	2.50	0.42
1:B:138:ASN:C	1:B:138:ASN:ND2	2.73	0.42
1:B:261:ILE:HD13	1:B:261:ILE:H	1.85	0.42
1:C:151:LEU:HD12	1:C:151:LEU:N	2.33	0.42
1:C:261:ILE:H	1:C:261:ILE:HD13	1.85	0.42
1:C:347:ARG:HD2	1:C:392:GLY:CA	2.50	0.42
1:C:449:ASP:N	1:C:532:CYS:HB3	2.19	0.42
1:C:515:ASP:OD1	1:C:516:ALA:N	2.52	0.42
1:A:108:PHE:HA	1:A:132:ALA:CB	2.50	0.41
1:B:23:GLN:HB2	1:B:59:TRP:CD2	2.55	0.41
1:B:108:PHE:HA	1:B:132:ALA:CB	2.50	0.41
1:B:409:ILE:HD13	3:B:811:NDG:H8C3	2.01	0.41
1:B:469:TYR:CE2	1:B:470:PRO:HD2	2.54	0.41
1:C:138:ASN:C	1:C:138:ASN:ND2	2.73	0.41
1:C:371:ILE:HA	1:C:410:MET:HB3	2.02	0.41
1:C:474:SER:N	1:C:512:LEU:O	2.53	0.41
1:C:505:GLY:H	1:C:529:VAL:HB	1.85	0.41
1:D:67:ASP:CG	1:D:69:GLU:HB2	2.40	0.41
1:D:368:SER:CB	1:D:370:PHE:HE1	2.31	0.41
1:D:419:VAL:HG13	1:D:420:GLY:N	2.33	0.41
1:A:67:ASP:CG	1:A:69:GLU:HB2	2.40	0.41
1:A:90:GLU:N	1:B:90:GLU:CB	2.57	0.41
1:A:474:SER:N	1:A:512:LEU:O	2.53	0.41
1:A:522:LEU:HA	1:A:522:LEU:HD23	1.36	0.41
1:C:108:PHE:HA	1:C:132:ALA:CB	2.50	0.41
1:C:118:ARG:CA	1:C:212:THR:HB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:810:NAG:O7	2:C:810:NAG:C1	2.67	0.41
1:D:250:PRO:HA	1:D:255:TRP:CG	2.54	0.41
1:D:264:ASN:HB3	1:D:267:GLY:HA2	2.02	0.41
1:D:339:VAL:HG21	1:D:351:ILE:HG22	2.01	0.41
1:D:474:SER:N	1:D:512:LEU:O	2.53	0.41
1:D:515:ASP:OD1	1:D:516:ALA:N	2.53	0.41
1:A:23:GLN:HA	1:A:58:GLY:O	2.21	0.41
1:B:239:VAL:HG11	1:B:282:LEU:HD22	2.02	0.41
1:D:154:ASP:HB3	2:D:801:NAG:C7	2.48	0.41
1:A:111:ASP:O	1:A:112:VAL:HG13	2.21	0.41
1:B:335:ALA:HB3	3:B:811:NDG:O6	2.15	0.41
1:C:235:ILE:HG21	1:C:235:ILE:HD13	1.84	0.41
1:A:4:ILE:HD13	1:B:2:TRP:HA	2.03	0.41
1:A:7:ILE:O	1:A:96:ILE:HG23	2.20	0.41
1:A:235:ILE:CD1	1:A:287:GLY:HA2	2.50	0.41
1:B:127:VAL:HG22	1:B:128:MET:HG3	2.03	0.41
1:B:347:ARG:HD2	1:B:392:GLY:CA	2.50	0.41
1:C:67:ASP:CG	1:C:69:GLU:HB2	2.40	0.41
1:C:230:VAL:HG23	1:C:323:VAL:HA	2.03	0.41
1:C:239:VAL:HG11	1:C:282:LEU:HD22	2.02	0.41
1:C:344:ASP:CG	1:C:344:ASP:O	2.57	0.41
1:C:469:TYR:CE2	1:C:470:PRO:HD2	2.54	0.41
1:D:118:ARG:CA	1:D:212:THR:HB	2.51	0.41
1:D:329:ALA:HA	1:D:330:PRO:HD3	1.87	0.41
1:D:367:LEU:H	1:D:367:LEU:HG	1.41	0.41
1:D:490:LYS:O	1:D:490:LYS:CG	2.67	0.41
1:D:502:LEU:HA	1:D:502:LEU:HD23	1.82	0.41
1:A:366:LYS:HG2	1:A:367:LEU:H	1.74	0.41
1:A:400:TYR:O	1:A:401:VAL:C	2.59	0.41
1:B:423:THR:CG2	2:B:810:NAG:N2	2.84	0.41
1:C:7:ILE:O	1:C:96:ILE:HG23	2.20	0.41
1:C:127:VAL:HG22	1:C:128:MET:HG3	2.03	0.41
1:C:237:PHE:N	1:C:284:THR:OG1	2.42	0.41
1:D:7:ILE:O	1:D:96:ILE:HG23	2.20	0.41
1:D:127:VAL:HG22	1:D:128:MET:HG3	2.03	0.41
1:A:108:PHE:CZ	1:A:191:VAL:HG23	2.56	0.41
1:A:127:VAL:HG22	1:A:128:MET:HG3	2.03	0.41
1:A:297:VAL:HG22	2:A:807:NAG:H62	2.03	0.41
1:A:423:THR:CG2	2:A:810:NAG:N2	2.84	0.41
1:B:230:VAL:HG23	1:B:323:VAL:HA	2.03	0.41
1:B:514:SER:HG	1:B:519:ASN:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:68:ARG:HD3	1:D:100:ASP:CB	2.51	0.41
1:D:230:VAL:HG23	1:D:323:VAL:HA	2.03	0.41
1:D:505:GLY:H	1:D:529:VAL:HB	1.85	0.41
1:B:237:PHE:N	1:B:284:THR:OG1	2.42	0.41
1:B:400:TYR:O	1:B:401:VAL:C	2.59	0.41
1:C:108:PHE:CZ	1:C:191:VAL:HG23	2.56	0.41
1:D:25:LYS:NZ	1:D:29:ASP:OD2	2.39	0.41
1:D:108:PHE:CZ	1:D:191:VAL:HG23	2.56	0.41
1:D:371:ILE:HA	1:D:410:MET:HB3	2.02	0.41
1:D:439:VAL:HA	1:D:440:PRO:HD3	1.81	0.41
1:A:68:ARG:HD3	1:A:100:ASP:CB	2.51	0.41
1:A:90:GLU:HG3	1:B:89:GLU:CG	2.46	0.41
1:A:231:PRO:O	1:A:235:ILE:HD13	2.21	0.41
1:A:252:THR:O	1:A:255:TRP:N	2.54	0.41
1:A:440:PRO:HB3	1:A:457:LEU:CD2	2.43	0.41
1:B:62:VAL:HG13	1:B:62:VAL:O	2.21	0.41
1:B:108:PHE:HA	1:B:132:ALA:HB2	2.03	0.41
1:B:108:PHE:CZ	1:B:191:VAL:HG23	2.56	0.41
1:B:249:MET:O	1:B:252:THR:CB	2.69	0.41
1:B:297:VAL:HG22	2:B:807:NAG:H62	2.03	0.41
1:C:23:GLN:HB2	1:C:59:TRP:CD2	2.55	0.41
1:C:62:VAL:HG13	1:C:62:VAL:O	2.21	0.41
1:C:119:GLU:CG	1:C:214:ALA:HB3	2.51	0.41
1:C:122:GLN:HE21	1:C:122:GLN:HB3	1.58	0.41
1:C:127:VAL:HG13	1:C:128:MET:N	2.25	0.41
1:C:193:ALA:O	1:C:202:SER:HA	2.21	0.41
1:C:231:PRO:O	1:C:288:LEU:HD12	2.20	0.41
1:C:290:PHE:CG	1:C:292:LEU:HB2	2.56	0.41
1:C:423:THR:CG2	2:C:810:NAG:N2	2.84	0.41
1:C:432:ASP:CG	1:C:433:VAL:N	2.74	0.41
1:D:212:THR:CG2	1:D:213:ASP:H	2.32	0.41
1:D:231:PRO:O	1:D:288:LEU:HD12	2.20	0.41
1:D:231:PRO:O	1:D:235:ILE:HD13	2.21	0.41
1:D:290:PHE:CG	1:D:292:LEU:HB2	2.56	0.41
1:D:448:CYS:C	1:D:452:PRO:HG3	2.40	0.41
1:D:481:LEU:HA	1:D:481:LEU:HD12	1.50	0.41
1:A:42:GLY:CA	1:A:47:PRO:O	2.69	0.41
1:A:108:PHE:HA	1:A:132:ALA:HB2	2.03	0.41
1:A:193:ALA:O	1:A:202:SER:HA	2.21	0.41
1:A:223:PRO:HB2	1:A:226:TYR:CZ	2.56	0.41
1:A:329:ALA:HA	1:A:330:PRO:HD3	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:SER:HA	1:B:87:PRO:HD3	1.83	0.41
1:B:111:ASP:O	1:B:112:VAL:HG13	2.21	0.41
1:C:249:MET:O	1:C:252:THR:CB	2.69	0.41
1:C:272:THR:O	1:C:281:ILE:HG22	2.21	0.41
1:C:319:VAL:CG1	1:C:320:THR:N	2.84	0.41
1:C:347:ARG:HG3	1:C:392:GLY:N	2.33	0.41
1:C:409:ILE:HD13	3:C:811:NDG:C8	2.52	0.41
1:D:111:ASP:O	1:D:112:VAL:HG13	2.21	0.41
1:D:193:ALA:O	1:D:202:SER:HA	2.21	0.41
1:D:239:VAL:HG11	1:D:282:LEU:HD22	2.02	0.41
1:D:423:THR:CG2	2:D:810:NAG:N2	2.84	0.41
1:A:23:GLN:HB2	1:A:59:TRP:CD2	2.55	0.40
1:A:272:THR:O	1:A:281:ILE:HG22	2.21	0.40
1:A:449:ASP:HB2	1:A:531:SER:HA	2.03	0.40
1:B:19:LYS:HB3	1:B:62:VAL:CG1	2.52	0.40
1:B:119:GLU:CG	1:B:214:ALA:HB3	2.51	0.40
1:B:226:TYR:HB2	1:B:319:VAL:CG2	2.52	0.40
1:B:432:ASP:CG	1:B:433:VAL:N	2.74	0.40
1:B:474:SER:N	1:B:512:LEU:O	2.54	0.40
1:C:68:ARG:HD3	1:C:100:ASP:CB	2.51	0.40
1:C:226:TYR:HB2	1:C:319:VAL:CG2	2.52	0.40
1:D:119:GLU:CG	1:D:214:ALA:HB3	2.51	0.40
1:D:138:ASN:C	1:D:138:ASN:ND2	2.73	0.40
1:D:373:ASN:CG	1:D:374:ASP:N	2.75	0.40
1:A:3:VAL:HG21	1:B:4:ILE:HG13	1.18	0.40
1:A:32:ASN:ND2	1:A:83:GLU:CB	2.62	0.40
1:A:319:VAL:CG1	1:A:320:THR:N	2.84	0.40
1:B:272:THR:O	1:B:281:ILE:HG22	2.22	0.40
1:B:438:PRO:HB2	1:B:513:LEU:CD1	2.51	0.40
1:C:252:THR:O	1:C:255:TRP:N	2.54	0.40
1:C:438:PRO:HB2	1:C:513:LEU:CD1	2.51	0.40
1:D:62:VAL:HG13	1:D:62:VAL:O	2.21	0.40
1:D:127:VAL:HG13	1:D:128:MET:N	2.25	0.40
1:D:154:ASP:C	2:D:801:NAG:C8	2.62	0.40
1:D:464:ILE:CD1	1:D:465:PRO:N	2.73	0.40
1:D:502:LEU:HD22	1:D:503:LYS:H	1.85	0.40
1:A:259:TYR:O	1:A:260:LYS:CB	2.69	0.40
1:A:373:ASN:CG	1:A:374:ASP:N	2.75	0.40
1:A:502:LEU:HD22	1:A:503:LYS:H	1.86	0.40
1:B:502:LEU:HD22	1:B:503:LYS:H	1.85	0.40
1:C:42:GLY:CA	1:C:47:PRO:O	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:111:ASP:O	1:C:112:VAL:HG13	2.21	0.40
1:D:19:LYS:HB3	1:D:62:VAL:HG12	2.03	0.40
1:D:23:GLN:HB2	1:D:59:TRP:CD2	2.55	0.40
1:D:396:ARG:HH21	1:D:432:ASP:CG	2.25	0.40
1:D:432:ASP:CG	1:D:433:VAL:N	2.74	0.40
1:A:34:VAL:CG1	1:A:80:ALA:HB1	2.52	0.40
1:A:119:GLU:CG	1:A:214:ALA:HB3	2.51	0.40
1:A:226:TYR:HB2	1:A:319:VAL:CG2	2.52	0.40
1:A:237:PHE:N	1:A:284:THR:OG1	2.42	0.40
1:A:415:ASP:CG	1:A:416:GLY:H	2.16	0.40
1:B:23:GLN:HA	1:B:58:GLY:O	2.21	0.40
1:B:42:GLY:CA	1:B:47:PRO:O	2.69	0.40
1:B:162:LEU:HD13	1:B:179:LEU:HD21	2.04	0.40
1:C:108:PHE:HA	1:C:132:ALA:HB2	2.03	0.40
1:C:316:THR:OG1	2:C:806:NAG:H83	2.21	0.40
1:D:223:PRO:HB2	1:D:226:TYR:CZ	2.56	0.40
1:D:316:THR:OG1	2:D:806:NAG:H83	2.21	0.40
1:D:385:ASN:O	1:D:385:ASN:ND2	2.55	0.40
1:A:24:ILE:CG2	1:B:1:ASP:N	2.84	0.40
1:A:409:ILE:HD13	3:A:811:NDG:C8	2.51	0.40
1:B:68:ARG:HD3	1:B:100:ASP:CB	2.51	0.40
1:B:193:ALA:O	1:B:202:SER:HA	2.21	0.40
1:B:450:GLN:HG3	1:B:532:CYS:O	2.10	0.40
1:B:483:TRP:CZ2	1:B:507:TYR:CE1	2.87	0.40
1:C:138:ASN:HD22	1:C:138:ASN:N	2.19	0.40
1:C:385:ASN:O	1:C:385:ASN:ND2	2.55	0.40
1:C:435:ASP:HB2	1:C:436:ASN:H	1.58	0.40
1:C:439:VAL:HA	1:C:440:PRO:HD3	1.81	0.40
1:D:435:ASP:HB2	1:D:436:ASN:H	1.58	0.40
1:D:438:PRO:HB2	1:D:513:LEU:CD1	2.51	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 PDB entries followed by that with respect to all EM entries.



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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	538/880 (61%)	401 (74%)	92 (17%)	45 (8%)	0	9
1	B	538/880 (61%)	401 (74%)	92 (17%)	45 (8%)	0	9
1	C	538/880 (61%)	401 (74%)	92 (17%)	45 (8%)	0	9
1	D	538/880 (61%)	401 (74%)	92 (17%)	45 (8%)	0	9
All	All	2152/3520 (61%)	1604 (74%)	368 (17%)	180 (8%)	1	9

All (180) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	91	PRO
1	A	155	PRO
1	A	235	ILE
1	A	347	ARG
1	A	363	GLN
1	A	364	ILE
1	A	374	ASP
1	A	404	ASN
1	A	467	ASN
1	A	476	SER
1	A	502	LEU
1	A	517	GLN
1	A	518	ASN
1	A	519	ASN
1	B	91	PRO
1	B	155	PRO
1	B	235	ILE
1	B	347	ARG
1	B	363	GLN
1	B	364	ILE
1	B	374	ASP
1	B	404	ASN
1	B	467	ASN
1	B	476	SER
1	B	502	LEU
1	B	517	GLN
1	B	518	ASN
1	B	519	ASN
1	C	91	PRO
1	C	155	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	235	ILE
1	C	347	ARG
1	C	363	GLN
1	C	364	ILE
1	C	374	ASP
1	C	404	ASN
1	C	467	ASN
1	C	476	SER
1	C	502	LEU
1	C	517	GLN
1	C	518	ASN
1	C	519	ASN
1	D	91	PRO
1	D	155	PRO
1	D	235	ILE
1	D	347	ARG
1	D	363	GLN
1	D	364	ILE
1	D	374	ASP
1	D	404	ASN
1	D	467	ASN
1	D	476	SER
1	D	502	LEU
1	D	517	GLN
1	D	518	ASN
1	D	519	ASN
1	A	3	VAL
1	A	156	GLU
1	A	260	LYS
1	A	287	GLY
1	A	470	PRO
1	A	503	LYS
1	B	3	VAL
1	B	156	GLU
1	B	260	LYS
1	B	287	GLY
1	B	470	PRO
1	B	503	LYS
1	C	3	VAL
1	C	156	GLU
1	C	260	LYS
1	C	287	GLY

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	470	PRO
1	C	503	LYS
1	D	3	VAL
1	D	156	GLU
1	D	260	LYS
1	D	287	GLY
1	D	470	PRO
1	D	503	LYS
1	A	55	TRP
1	A	212	THR
1	A	250	PRO
1	A	333	VAL
1	A	360	ASP
1	A	372	GLY
1	A	377	ARG
1	A	506	ASP
1	B	55	TRP
1	B	212	THR
1	B	250	PRO
1	B	333	VAL
1	B	360	ASP
1	B	372	GLY
1	B	377	ARG
1	B	506	ASP
1	C	55	TRP
1	C	212	THR
1	C	250	PRO
1	C	333	VAL
1	C	360	ASP
1	C	372	GLY
1	C	377	ARG
1	C	506	ASP
1	D	55	TRP
1	D	212	THR
1	D	250	PRO
1	D	333	VAL
1	D	360	ASP
1	D	372	GLY
1	D	377	ARG
1	D	506	ASP
1	A	152	LYS
1	A	223	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	359	PRO
1	A	375	PRO
1	B	152	LYS
1	B	223	PRO
1	B	359	PRO
1	B	375	PRO
1	C	152	LYS
1	C	223	PRO
1	C	359	PRO
1	C	375	PRO
1	D	152	LYS
1	D	223	PRO
1	D	359	PRO
1	D	375	PRO
1	A	160	PRO
1	A	265	GLU
1	A	278	ASN
1	A	289	ASP
1	A	482	THR
1	B	160	PRO
1	B	265	GLU
1	B	278	ASN
1	B	289	ASP
1	B	482	THR
1	C	160	PRO
1	C	265	GLU
1	C	278	ASN
1	C	289	ASP
1	C	482	THR
1	D	160	PRO
1	D	265	GLU
1	D	278	ASN
1	D	289	ASP
1	D	482	THR
1	A	498	PRO
1	A	523	THR
1	B	498	PRO
1	B	523	THR
1	C	498	PRO
1	C	523	THR
1	D	498	PRO
1	D	523	THR

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Mol	Chain	Res	Type
1	A	154	ASP
1	A	307	PRO
1	B	154	ASP
1	B	307	PRO
1	C	154	ASP
1	C	307	PRO
1	D	154	ASP
1	D	307	PRO
1	A	222	ASP
1	B	222	ASP
1	C	222	ASP
1	D	222	ASP
1	A	200	GLY
1	B	200	GLY
1	C	200	GLY
1	D	200	GLY
1	A	47	PRO
1	A	158	PRO
1	B	47	PRO
1	B	158	PRO
1	C	47	PRO
1	C	158	PRO
1	D	47	PRO
1	D	158	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 PDB entries followed by that with respect to all EM entries.

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	480/779 (62%)	381 (79%)	99 (21%)	<b>1</b> <b>6</b>
1	B	480/779 (62%)	381 (79%)	99 (21%)	<b>1</b> <b>6</b>
1	C	480/779 (62%)	381 (79%)	99 (21%)	<b>1</b> <b>6</b>
1	D	480/779 (62%)	381 (79%)	99 (21%)	<b>1</b> <b>6</b>
All	All	1920/3116 (62%)	1524 (79%)	396 (21%)	<b>3</b> <b>6</b>

All (396) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	LYS
1	A	18	PRO
1	A	19	LYS
1	A	27	ASN
1	A	52	ARG
1	A	61	LEU
1	A	66	LEU
1	A	68	ARG
1	A	88	VAL
1	A	91	PRO
1	A	92	MET
1	A	117	VAL
1	A	138	ASN
1	A	146	LEU
1	A	151	LEU
1	A	155	PRO
1	A	156	GLU
1	A	161	ASN
1	A	163	PHE
1	A	189	LEU
1	A	195	ASP
1	A	202	SER
1	A	216	ASP
1	A	217	ASN
1	A	223	PRO
1	A	226	TYR
1	A	231	PRO
1	A	233	ASN
1	A	234	GLU
1	A	235	ILE
1	A	237	PHE
1	A	250	PRO
1	A	253	PRO
1	A	261	ILE
1	A	264	ASN
1	A	268	PHE
1	A	273	THR
1	A	277	SER
1	A	278	ASN
1	A	282	LEU
1	A	284	THR
1	A	288	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	298	LEU
1	A	309	SER
1	A	310	VAL
1	A	315	SER
1	A	316	THR
1	A	318	THR
1	A	333	VAL
1	A	336	VAL
1	A	339	VAL
1	A	345	LEU
1	A	353	SER
1	A	354	LEU
1	A	360	ASP
1	A	363	GLN
1	A	364	ILE
1	A	365	GLN
1	A	371	ILE
1	A	373	ASN
1	A	375	PRO
1	A	379	LEU
1	A	382	ASN
1	A	384	ASP
1	A	385	ASN
1	A	393	ASN
1	A	394	LEU
1	A	395	ASP
1	A	398	SER
1	A	399	GLU
1	A	404	ASN
1	A	405	THR
1	A	407	THR
1	A	410	MET
1	A	423	THR
1	A	425	THR
1	A	427	ILE
1	A	428	LEU
1	A	433	VAL
1	A	436	ASN
1	A	447	MET
1	A	448	CYS
1	A	461	ASP
1	A	464	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	465	PRO
1	A	466	PRO
1	A	470	PRO
1	A	477	HIS
1	A	492	THR
1	A	509	ILE
1	A	512	LEU
1	A	517	GLN
1	A	518	ASN
1	A	519	ASN
1	A	520	PRO
1	A	522	LEU
1	A	523	THR
1	A	532	CYS
1	A	540	GLN
1	B	8	LYS
1	B	18	PRO
1	B	19	LYS
1	B	27	ASN
1	B	52	ARG
1	B	61	LEU
1	B	66	LEU
1	B	68	ARG
1	B	88	VAL
1	B	91	PRO
1	B	92	MET
1	B	117	VAL
1	B	138	ASN
1	B	146	LEU
1	B	151	LEU
1	B	155	PRO
1	B	156	GLU
1	B	161	ASN
1	B	163	PHE
1	B	189	LEU
1	B	195	ASP
1	B	202	SER
1	B	216	ASP
1	B	217	ASN
1	B	223	PRO
1	B	226	TYR
1	B	231	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	233	ASN
1	B	234	GLU
1	B	235	ILE
1	B	237	PHE
1	B	250	PRO
1	B	253	PRO
1	B	261	ILE
1	B	264	ASN
1	B	268	PHE
1	B	273	THR
1	B	277	SER
1	B	278	ASN
1	B	282	LEU
1	B	284	THR
1	B	288	LEU
1	B	298	LEU
1	B	309	SER
1	B	310	VAL
1	B	315	SER
1	B	316	THR
1	B	318	THR
1	B	333	VAL
1	B	336	VAL
1	B	339	VAL
1	B	345	LEU
1	B	353	SER
1	B	354	LEU
1	B	360	ASP
1	B	363	GLN
1	B	364	ILE
1	B	365	GLN
1	B	371	ILE
1	B	373	ASN
1	B	375	PRO
1	B	379	LEU
1	B	382	ASN
1	B	384	ASP
1	B	385	ASN
1	B	393	ASN
1	B	394	LEU
1	B	395	ASP
1	B	398	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	399	GLU
1	B	404	ASN
1	B	405	THR
1	B	407	THR
1	B	410	MET
1	B	423	THR
1	B	425	THR
1	B	427	ILE
1	B	428	LEU
1	B	433	VAL
1	B	436	ASN
1	B	447	MET
1	B	448	CYS
1	B	461	ASP
1	B	464	ILE
1	B	465	PRO
1	B	466	PRO
1	B	470	PRO
1	B	477	HIS
1	B	492	THR
1	B	509	ILE
1	B	512	LEU
1	B	517	GLN
1	B	518	ASN
1	B	519	ASN
1	B	520	PRO
1	B	522	LEU
1	B	523	THR
1	B	532	CYS
1	B	540	GLN
1	C	8	LYS
1	C	18	PRO
1	C	19	LYS
1	C	27	ASN
1	C	52	ARG
1	C	61	LEU
1	C	66	LEU
1	C	68	ARG
1	C	88	VAL
1	C	91	PRO
1	C	92	MET
1	C	117	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	138	ASN
1	C	146	LEU
1	C	151	LEU
1	C	155	PRO
1	C	156	GLU
1	C	161	ASN
1	C	163	PHE
1	C	189	LEU
1	C	195	ASP
1	C	202	SER
1	C	216	ASP
1	C	217	ASN
1	C	223	PRO
1	C	226	TYR
1	C	231	PRO
1	C	233	ASN
1	C	234	GLU
1	C	235	ILE
1	C	237	PHE
1	C	250	PRO
1	C	253	PRO
1	C	261	ILE
1	C	264	ASN
1	C	268	PHE
1	C	273	THR
1	C	277	SER
1	C	278	ASN
1	C	282	LEU
1	C	284	THR
1	C	288	LEU
1	C	298	LEU
1	C	309	SER
1	C	310	VAL
1	C	315	SER
1	C	316	THR
1	C	318	THR
1	C	333	VAL
1	C	336	VAL
1	C	339	VAL
1	C	345	LEU
1	C	353	SER
1	C	354	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	360	ASP
1	C	363	GLN
1	C	364	ILE
1	C	365	GLN
1	C	371	ILE
1	C	373	ASN
1	C	375	PRO
1	C	379	LEU
1	C	382	ASN
1	C	384	ASP
1	C	385	ASN
1	C	393	ASN
1	C	394	LEU
1	C	395	ASP
1	C	398	SER
1	C	399	GLU
1	C	404	ASN
1	C	405	THR
1	C	407	THR
1	C	410	MET
1	C	423	THR
1	C	425	THR
1	C	427	ILE
1	C	428	LEU
1	C	433	VAL
1	C	436	ASN
1	C	447	MET
1	C	448	CYS
1	C	461	ASP
1	C	464	ILE
1	C	465	PRO
1	C	466	PRO
1	C	470	PRO
1	C	477	HIS
1	C	492	THR
1	C	509	ILE
1	C	512	LEU
1	C	517	GLN
1	C	518	ASN
1	C	519	ASN
1	C	520	PRO
1	C	522	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	523	THR
1	C	532	CYS
1	C	540	GLN
1	D	8	LYS
1	D	18	PRO
1	D	19	LYS
1	D	27	ASN
1	D	52	ARG
1	D	61	LEU
1	D	66	LEU
1	D	68	ARG
1	D	88	VAL
1	D	91	PRO
1	D	92	MET
1	D	117	VAL
1	D	138	ASN
1	D	146	LEU
1	D	151	LEU
1	D	155	PRO
1	D	156	GLU
1	D	161	ASN
1	D	163	PHE
1	D	189	LEU
1	D	195	ASP
1	D	202	SER
1	D	216	ASP
1	D	217	ASN
1	D	223	PRO
1	D	226	TYR
1	D	231	PRO
1	D	233	ASN
1	D	234	GLU
1	D	235	ILE
1	D	237	PHE
1	D	250	PRO
1	D	253	PRO
1	D	261	ILE
1	D	264	ASN
1	D	268	PHE
1	D	273	THR
1	D	277	SER
1	D	278	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	D	282	LEU
1	D	284	THR
1	D	288	LEU
1	D	298	LEU
1	D	309	SER
1	D	310	VAL
1	D	315	SER
1	D	316	THR
1	D	318	THR
1	D	333	VAL
1	D	336	VAL
1	D	339	VAL
1	D	345	LEU
1	D	353	SER
1	D	354	LEU
1	D	360	ASP
1	D	363	GLN
1	D	364	ILE
1	D	365	GLN
1	D	371	ILE
1	D	373	ASN
1	D	375	PRO
1	D	379	LEU
1	D	382	ASN
1	D	384	ASP
1	D	385	ASN
1	D	393	ASN
1	D	394	LEU
1	D	395	ASP
1	D	398	SER
1	D	399	GLU
1	D	404	ASN
1	D	405	THR
1	D	407	THR
1	D	410	MET
1	D	423	THR
1	D	425	THR
1	D	427	ILE
1	D	428	LEU
1	D	433	VAL
1	D	436	ASN
1	D	447	MET

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Mol	Chain	Res	Type
1	D	448	CYS
1	D	461	ASP
1	D	464	ILE
1	D	465	PRO
1	D	466	PRO
1	D	470	PRO
1	D	477	HIS
1	D	492	THR
1	D	509	ILE
1	D	512	LEU
1	D	517	GLN
1	D	518	ASN
1	D	519	ASN
1	D	520	PRO
1	D	522	LEU
1	D	523	THR
1	D	532	CYS
1	D	540	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (91) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	12	ASN
1	A	27	ASN
1	A	32	ASN
1	A	45	ASN
1	A	104	ASN
1	A	110	GLN
1	A	122	GLN
1	A	138	ASN
1	A	217	ASN
1	A	233	ASN
1	A	240	GLN
1	A	264	ASN
1	A	278	ASN
1	A	299	GLN
1	A	373	ASN
1	A	385	ASN
1	A	391	ASN
1	A	393	ASN
1	A	455	GLN
1	A	467	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	517	GLN
1	A	519	ASN
1	B	12	ASN
1	B	27	ASN
1	B	32	ASN
1	B	45	ASN
1	B	104	ASN
1	B	110	GLN
1	B	122	GLN
1	B	138	ASN
1	B	217	ASN
1	B	233	ASN
1	B	240	GLN
1	B	264	ASN
1	B	278	ASN
1	B	299	GLN
1	B	373	ASN
1	B	385	ASN
1	B	391	ASN
1	B	393	ASN
1	B	404	ASN
1	B	455	GLN
1	B	467	ASN
1	B	517	GLN
1	B	519	ASN
1	C	12	ASN
1	C	27	ASN
1	C	32	ASN
1	C	45	ASN
1	C	104	ASN
1	C	110	GLN
1	C	122	GLN
1	C	138	ASN
1	C	217	ASN
1	C	233	ASN
1	C	240	GLN
1	C	264	ASN
1	C	278	ASN
1	C	299	GLN
1	C	373	ASN
1	C	385	ASN
1	C	391	ASN

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Mol	Chain	Res	Type
1	C	393	ASN
1	C	404	ASN
1	C	455	GLN
1	C	467	ASN
1	C	517	GLN
1	C	519	ASN
1	D	12	ASN
1	D	27	ASN
1	D	32	ASN
1	D	45	ASN
1	D	104	ASN
1	D	110	GLN
1	D	122	GLN
1	D	138	ASN
1	D	217	ASN
1	D	233	ASN
1	D	240	GLN
1	D	264	ASN
1	D	278	ASN
1	D	299	GLN
1	D	373	ASN
1	D	385	ASN
1	D	391	ASN
1	D	393	ASN
1	D	404	ASN
1	D	455	GLN
1	D	467	ASN
1	D	517	GLN
1	D	519	ASN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry

Of 108 ligands modelled in this entry, 48 are monoatomic - leaving 60 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
2	NAG	D	808	1	14,14,15	0.66	0	17,19,21	0.69	0
2	NAG	D	904	1	14,14,15	0.77	1 (7%)	17,19,21	0.70	1 (5%)
2	NAG	A	807	1	14,14,15	0.65	0	17,19,21	1.19	2 (11%)
2	NAG	C	903	1	14,14,15	0.55	0	17,19,21	0.79	0
2	NAG	A	810	1	14,14,15	0.67	0	17,19,21	1.34	4 (23%)
2	NAG	C	802	1	14,14,15	0.77	1 (7%)	17,19,21	0.85	0
2	NAG	C	902	1	14,14,15	1.14	1 (7%)	17,19,21	1.09	2 (11%)
2	NAG	B	801	1	14,14,15	0.69	0	17,19,21	0.98	1 (5%)
3	NDG	A	811	1	14,14,15	0.87	0	17,19,21	1.96	1 (5%)
3	NDG	B	811	1	14,14,15	0.87	0	17,19,21	1.97	1 (5%)
2	NAG	B	808	1	14,14,15	0.67	0	17,19,21	0.69	0
2	NAG	B	810	1	14,14,15	0.66	0	17,19,21	1.33	4 (23%)
2	NAG	D	806	1	14,14,15	0.56	0	17,19,21	1.39	3 (17%)
2	NAG	B	803	1	14,14,15	1.00	1 (7%)	17,19,21	1.17	2 (11%)
2	NAG	D	807	1	14,14,15	0.64	0	17,19,21	1.19	2 (11%)
2	NAG	B	812	1	14,14,15	0.83	1 (7%)	17,19,21	0.76	1 (5%)
2	NAG	D	805	1	14,14,15	0.71	0	17,19,21	1.05	1 (5%)
3	NDG	D	811	1	14,14,15	0.87	0	17,19,21	1.97	1 (5%)
2	NAG	D	902	1	14,14,15	1.14	1 (7%)	17,19,21	1.09	2 (11%)
2	NAG	C	812	1	14,14,15	0.83	1 (7%)	17,19,21	0.76	1 (5%)
2	NAG	D	801	1	14,14,15	0.72	0	17,19,21	0.98	1 (5%)
3	NDG	C	804	1	14,14,15	0.64	0	17,19,21	0.78	0
2	NAG	A	808	1	14,14,15	0.66	0	17,19,21	0.70	0
2	NAG	D	903	1	14,14,15	0.55	0	17,19,21	0.78	0
2	NAG	B	807	1	14,14,15	0.64	0	17,19,21	1.19	2 (11%)
2	NAG	D	802	1	14,14,15	0.77	1 (7%)	17,19,21	0.85	0
2	NAG	A	903	1	14,14,15	0.55	0	17,19,21	0.79	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	NAG	B	809	1	14,14,15	0.78	1 (7%)	17,19,21	0.94	0
2	NAG	C	801	1	14,14,15	0.71	0	17,19,21	0.98	1 (5%)
3	NDG	D	804	1	14,14,15	0.66	0	17,19,21	0.78	0
2	NAG	C	809	1	14,14,15	0.77	1 (7%)	17,19,21	0.94	0
2	NAG	A	902	1	14,14,15	1.14	1 (7%)	17,19,21	1.09	1 (5%)
2	NAG	D	809	1	14,14,15	0.77	1 (7%)	17,19,21	0.94	0
2	NAG	D	803	1	14,14,15	1.00	1 (7%)	17,19,21	1.17	2 (11%)
2	NAG	C	810	1	14,14,15	0.65	0	17,19,21	1.33	4 (23%)
2	NAG	A	806	1	14,14,15	0.56	0	17,19,21	1.38	3 (17%)
2	NAG	D	812	1	14,14,15	0.84	1 (7%)	17,19,21	0.76	1 (5%)
2	NAG	A	812	1	14,14,15	0.84	1 (7%)	17,19,21	0.75	1 (5%)
2	NAG	C	803	1	14,14,15	1.00	1 (7%)	17,19,21	1.16	2 (11%)
2	NAG	B	806	1	14,14,15	0.57	0	17,19,21	1.39	3 (17%)
2	NAG	D	810	1	14,14,15	0.66	0	17,19,21	1.33	4 (23%)
2	NAG	A	805	1	14,14,15	0.72	0	17,19,21	1.05	1 (5%)
2	NAG	B	805	1	14,14,15	0.72	0	17,19,21	1.05	1 (5%)
2	NAG	C	807	1	14,14,15	0.64	0	17,19,21	1.20	2 (11%)
2	NAG	B	902	1	14,14,15	1.13	1 (7%)	17,19,21	1.09	1 (5%)
2	NAG	C	806	1	14,14,15	0.57	0	17,19,21	1.39	3 (17%)
2	NAG	A	802	1	14,14,15	0.78	1 (7%)	17,19,21	0.85	0
2	NAG	C	904	1	14,14,15	0.79	1 (7%)	17,19,21	0.70	1 (5%)
2	NAG	C	808	1	14,14,15	0.66	0	17,19,21	0.69	0
2	NAG	A	809	1	14,14,15	0.77	1 (7%)	17,19,21	0.93	0
2	NAG	A	904	1	14,14,15	0.77	1 (7%)	17,19,21	0.70	1 (5%)
2	NAG	A	801	1	14,14,15	0.70	0	17,19,21	0.98	1 (5%)
2	NAG	B	802	1	14,14,15	0.78	1 (7%)	17,19,21	0.85	0
2	NAG	C	805	1	14,14,15	0.71	0	17,19,21	1.05	1 (5%)
3	NDG	A	804	1	14,14,15	0.65	0	17,19,21	0.78	0
3	NDG	C	811	1	14,14,15	0.87	0	17,19,21	1.95	1 (5%)
2	NAG	B	904	1	14,14,15	0.77	1 (7%)	17,19,21	0.69	1 (5%)
3	NDG	B	804	1	14,14,15	0.65	0	17,19,21	0.77	0
2	NAG	B	903	1	14,14,15	0.55	0	17,19,21	0.79	0
2	NAG	A	803	1	14,14,15	0.99	1 (7%)	17,19,21	1.17	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
2	NAG	D	808	1	-	3/6/23/26	0/1/1/1
2	NAG	D	904	1	-	3/6/23/26	0/1/1/1
2	NAG	A	807	1	-	5/6/23/26	0/1/1/1
2	NAG	C	903	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	C	902	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	A	810	1	-	3/6/23/26	0/1/1/1
2	NAG	C	802	1	-	2/6/23/26	0/1/1/1
2	NAG	B	801	1	-	4/6/23/26	0/1/1/1
3	NDG	A	811	1	-	2/6/23/26	0/1/1/1
3	NDG	B	811	1	-	2/6/23/26	0/1/1/1
2	NAG	B	808	1	-	3/6/23/26	0/1/1/1
2	NAG	B	810	1	-	3/6/23/26	0/1/1/1
2	NAG	D	806	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	B	803	1	-	2/6/23/26	0/1/1/1
2	NAG	D	807	1	-	5/6/23/26	0/1/1/1
2	NAG	D	805	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	B	812	1	-	4/6/23/26	0/1/1/1
3	NDG	D	811	1	-	2/6/23/26	0/1/1/1
2	NAG	D	902	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	C	812	1	-	4/6/23/26	0/1/1/1
2	NAG	D	801	1	-	4/6/23/26	0/1/1/1
3	NDG	C	804	1	-	0/6/23/26	0/1/1/1
2	NAG	A	808	1	-	3/6/23/26	0/1/1/1
2	NAG	D	903	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	B	807	1	-	5/6/23/26	0/1/1/1
2	NAG	D	802	1	-	2/6/23/26	0/1/1/1
2	NAG	A	903	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	B	809	1	-	2/6/23/26	0/1/1/1
2	NAG	C	801	1	-	4/6/23/26	0/1/1/1
3	NDG	D	804	1	-	0/6/23/26	0/1/1/1
2	NAG	C	809	1	-	2/6/23/26	0/1/1/1
2	NAG	A	902	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	D	809	1	-	2/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	D	803	1	-	2/6/23/26	0/1/1/1
2	NAG	C	810	1	-	3/6/23/26	0/1/1/1
2	NAG	A	806	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	D	812	1	-	4/6/23/26	0/1/1/1
2	NAG	A	812	1	-	4/6/23/26	0/1/1/1
2	NAG	C	803	1	-	2/6/23/26	0/1/1/1
2	NAG	B	806	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	D	810	1	-	3/6/23/26	0/1/1/1
2	NAG	A	805	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	B	805	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	C	807	1	-	5/6/23/26	0/1/1/1
2	NAG	B	902	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	C	806	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	A	802	1	-	2/6/23/26	0/1/1/1
2	NAG	C	904	1	-	3/6/23/26	0/1/1/1
2	NAG	C	808	1	-	3/6/23/26	0/1/1/1
2	NAG	A	809	1	-	2/6/23/26	0/1/1/1
2	NAG	A	904	1	-	3/6/23/26	0/1/1/1
2	NAG	C	805	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	A	801	1	-	4/6/23/26	0/1/1/1
2	NAG	B	802	1	-	2/6/23/26	0/1/1/1
3	NDG	A	804	1	-	0/6/23/26	0/1/1/1
3	NDG	C	811	1	-	2/6/23/26	0/1/1/1
2	NAG	B	904	1	-	3/6/23/26	0/1/1/1
3	NDG	B	804	1	-	0/6/23/26	0/1/1/1
2	NAG	B	903	1	1/1/5/7	2/6/23/26	0/1/1/1
2	NAG	A	803	1	-	2/6/23/26	0/1/1/1

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	902	NAG	C1-C2	3.42	1.57	1.52
2	C	902	NAG	C1-C2	3.41	1.57	1.52
2	D	902	NAG	C1-C2	3.40	1.57	1.52
2	B	902	NAG	C1-C2	3.35	1.56	1.52
2	C	803	NAG	O5-C5	2.69	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	803	NAG	O5-C5	2.67	1.48	1.43
2	B	803	NAG	O5-C5	2.66	1.48	1.43
2	D	803	NAG	O5-C5	2.65	1.48	1.43
2	C	904	NAG	C1-C2	-2.48	1.49	1.52
2	D	904	NAG	C1-C2	-2.41	1.49	1.52
2	B	904	NAG	C1-C2	-2.41	1.49	1.52
2	A	904	NAG	C1-C2	-2.40	1.49	1.52
2	C	812	NAG	C1-C2	-2.34	1.49	1.52
2	D	812	NAG	C1-C2	-2.33	1.49	1.52
2	B	812	NAG	C1-C2	-2.31	1.49	1.52
2	A	812	NAG	C1-C2	-2.31	1.49	1.52
2	A	802	NAG	C1-C2	2.13	1.55	1.52
2	C	802	NAG	C1-C2	2.12	1.55	1.52
2	B	802	NAG	C1-C2	2.10	1.55	1.52
2	B	809	NAG	C1-C2	-2.06	1.49	1.52
2	C	809	NAG	C1-C2	-2.06	1.49	1.52
2	D	809	NAG	C1-C2	-2.04	1.49	1.52
2	A	809	NAG	C1-C2	-2.04	1.49	1.52
2	D	802	NAG	C1-C2	2.01	1.55	1.52

All (70) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	811	NDG	C2-N2-C7	-7.46	112.91	122.90
3	D	811	NDG	C2-N2-C7	-7.43	112.94	122.90
3	A	811	NDG	C2-N2-C7	-7.42	112.96	122.90
3	C	811	NDG	C2-N2-C7	-7.40	112.98	122.90
2	C	806	NAG	C2-N2-C7	-3.63	118.03	122.90
2	D	806	NAG	C2-N2-C7	-3.62	118.05	122.90
2	B	806	NAG	C2-N2-C7	-3.62	118.05	122.90
2	A	806	NAG	C2-N2-C7	-3.60	118.08	122.90
2	A	805	NAG	C2-N2-C7	-3.17	118.65	122.90
2	B	805	NAG	C2-N2-C7	-3.15	118.68	122.90
2	D	805	NAG	C2-N2-C7	-3.14	118.69	122.90
2	C	805	NAG	C2-N2-C7	-3.13	118.71	122.90
2	D	807	NAG	C2-N2-C7	-3.07	118.79	122.90
2	C	807	NAG	C2-N2-C7	-3.06	118.80	122.90
2	A	807	NAG	C2-N2-C7	-3.05	118.81	122.90
2	B	807	NAG	C2-N2-C7	-3.03	118.84	122.90
2	B	803	NAG	C2-N2-C7	-3.02	118.85	122.90
2	C	803	NAG	C2-N2-C7	-3.01	118.86	122.90
2	A	803	NAG	C2-N2-C7	-3.01	118.87	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	803	NAG	C2-N2-C7	-3.00	118.88	122.90
2	C	810	NAG	C1-C2-N2	2.55	114.45	110.43
2	A	810	NAG	C1-C2-N2	2.54	114.43	110.43
2	B	810	NAG	C1-C2-N2	2.52	114.40	110.43
2	D	810	NAG	C1-C2-N2	2.51	114.39	110.43
2	B	810	NAG	C4-C3-C2	-2.48	107.39	111.02
2	D	810	NAG	C4-C3-C2	-2.47	107.40	111.02
2	A	810	NAG	C4-C3-C2	-2.46	107.41	111.02
2	D	803	NAG	C1-O5-C5	2.46	115.49	112.19
2	C	810	NAG	C4-C3-C2	-2.46	107.41	111.02
2	C	806	NAG	C4-C3-C2	-2.46	107.42	111.02
2	B	806	NAG	C4-C3-C2	-2.45	107.43	111.02
2	C	803	NAG	C1-O5-C5	2.45	115.46	112.19
2	A	803	NAG	C1-O5-C5	2.43	115.44	112.19
2	B	803	NAG	C1-O5-C5	2.43	115.44	112.19
2	D	806	NAG	C4-C3-C2	-2.42	107.47	111.02
2	A	806	NAG	C4-C3-C2	-2.42	107.47	111.02
2	B	810	NAG	O5-C1-C2	-2.36	107.63	111.29
2	D	810	NAG	O5-C1-C2	-2.36	107.63	111.29
2	A	810	NAG	O5-C1-C2	-2.35	107.65	111.29
2	C	810	NAG	O5-C1-C2	-2.33	107.68	111.29
2	C	810	NAG	C1-O5-C5	-2.25	109.17	112.19
2	D	810	NAG	C1-O5-C5	-2.23	109.20	112.19
2	B	810	NAG	C1-O5-C5	-2.23	109.20	112.19
2	A	810	NAG	C1-O5-C5	-2.22	109.22	112.19
2	C	812	NAG	C2-N2-C7	-2.17	119.99	122.90
2	B	902	NAG	O5-C1-C2	2.17	114.65	111.29
2	D	812	NAG	C2-N2-C7	-2.17	120.00	122.90
2	B	812	NAG	C2-N2-C7	-2.16	120.00	122.90
2	B	801	NAG	C1-C2-N2	-2.16	107.03	110.43
2	A	801	NAG	C1-C2-N2	-2.15	107.04	110.43
2	C	801	NAG	C1-C2-N2	-2.15	107.05	110.43
2	C	902	NAG	O5-C1-C2	2.13	114.59	111.29
2	A	902	NAG	O5-C1-C2	2.13	114.59	111.29
2	D	801	NAG	C1-C2-N2	-2.13	107.08	110.43
2	A	812	NAG	C2-N2-C7	-2.12	120.06	122.90
2	D	902	NAG	O5-C1-C2	2.11	114.55	111.29
2	C	807	NAG	O5-C1-C2	-2.09	108.06	111.29
2	B	807	NAG	O5-C1-C2	-2.07	108.08	111.29
2	A	807	NAG	O5-C1-C2	-2.07	108.09	111.29
2	D	807	NAG	O5-C1-C2	-2.05	108.12	111.29
2	C	904	NAG	C2-N2-C7	-2.05	120.15	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	904	NAG	C2-N2-C7	-2.04	120.17	122.90
2	B	904	NAG	C2-N2-C7	-2.03	120.17	122.90
2	D	904	NAG	C2-N2-C7	-2.03	120.17	122.90
2	A	806	NAG	O5-C1-C2	-2.03	108.15	111.29
2	D	902	NAG	C1-O5-C5	2.03	114.91	112.19
2	C	902	NAG	C1-O5-C5	2.03	114.90	112.19
2	D	806	NAG	O5-C1-C2	-2.03	108.16	111.29
2	B	806	NAG	O5-C1-C2	-2.02	108.17	111.29
2	C	806	NAG	O5-C1-C2	-2.02	108.17	111.29

All (16) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	805	NAG	C1
2	A	806	NAG	C1
2	A	902	NAG	C1
2	A	903	NAG	C1
2	B	805	NAG	C1
2	B	806	NAG	C1
2	B	902	NAG	C1
2	B	903	NAG	C1
2	C	805	NAG	C1
2	C	806	NAG	C1
2	C	902	NAG	C1
2	C	903	NAG	C1
2	D	805	NAG	C1
2	D	806	NAG	C1
2	D	902	NAG	C1
2	D	903	NAG	C1

All (152) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	807	NAG	C3-C2-N2-C7
2	A	808	NAG	C1-C2-N2-C7
2	A	810	NAG	C1-C2-N2-C7
2	A	812	NAG	C1-C2-N2-C7
2	A	902	NAG	C3-C2-N2-C7
2	A	904	NAG	C3-C2-N2-C7
2	B	807	NAG	C3-C2-N2-C7
2	B	808	NAG	C1-C2-N2-C7
2	B	810	NAG	C1-C2-N2-C7

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Mol	Chain	Res	Type	Atoms
2	B	812	NAG	C1-C2-N2-C7
2	B	902	NAG	C3-C2-N2-C7
2	B	904	NAG	C3-C2-N2-C7
2	C	807	NAG	C3-C2-N2-C7
2	C	808	NAG	C1-C2-N2-C7
2	C	810	NAG	C1-C2-N2-C7
2	C	812	NAG	C1-C2-N2-C7
2	C	902	NAG	C3-C2-N2-C7
2	C	904	NAG	C3-C2-N2-C7
2	D	807	NAG	C3-C2-N2-C7
2	D	808	NAG	C1-C2-N2-C7
2	D	810	NAG	C1-C2-N2-C7
2	D	812	NAG	C1-C2-N2-C7
2	D	902	NAG	C3-C2-N2-C7
2	D	904	NAG	C3-C2-N2-C7
3	A	811	NDG	C4-C5-C6-O6
3	B	811	NDG	C4-C5-C6-O6
3	C	811	NDG	C4-C5-C6-O6
3	D	811	NDG	C4-C5-C6-O6
2	A	807	NAG	C4-C5-C6-O6
2	B	807	NAG	C4-C5-C6-O6
2	C	802	NAG	C4-C5-C6-O6
2	C	807	NAG	C4-C5-C6-O6
2	D	807	NAG	C4-C5-C6-O6
3	A	811	NDG	O5-C5-C6-O6
3	B	811	NDG	O5-C5-C6-O6
3	C	811	NDG	O5-C5-C6-O6
3	D	811	NDG	O5-C5-C6-O6
2	A	802	NAG	C4-C5-C6-O6
2	B	802	NAG	C4-C5-C6-O6
2	D	802	NAG	C4-C5-C6-O6
2	A	809	NAG	O5-C5-C6-O6
2	B	809	NAG	O5-C5-C6-O6
2	C	809	NAG	O5-C5-C6-O6
2	D	809	NAG	O5-C5-C6-O6
2	A	809	NAG	C4-C5-C6-O6
2	B	809	NAG	C4-C5-C6-O6
2	C	809	NAG	C4-C5-C6-O6
2	D	809	NAG	C4-C5-C6-O6
2	A	807	NAG	O5-C5-C6-O6
2	B	807	NAG	O5-C5-C6-O6
2	C	807	NAG	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	D	807	NAG	O5-C5-C6-O6
2	A	807	NAG	C8-C7-N2-C2
2	B	807	NAG	C8-C7-N2-C2
2	C	807	NAG	C8-C7-N2-C2
2	D	807	NAG	C8-C7-N2-C2
2	A	805	NAG	O5-C5-C6-O6
2	B	805	NAG	O5-C5-C6-O6
2	C	805	NAG	O5-C5-C6-O6
2	D	805	NAG	O5-C5-C6-O6
2	A	802	NAG	O5-C5-C6-O6
2	C	802	NAG	O5-C5-C6-O6
2	D	802	NAG	O5-C5-C6-O6
2	B	802	NAG	O5-C5-C6-O6
2	A	904	NAG	C4-C5-C6-O6
2	B	904	NAG	C4-C5-C6-O6
2	C	904	NAG	C4-C5-C6-O6
2	D	904	NAG	C4-C5-C6-O6
2	A	805	NAG	C4-C5-C6-O6
2	B	805	NAG	C4-C5-C6-O6
2	C	805	NAG	C4-C5-C6-O6
2	D	805	NAG	C4-C5-C6-O6
2	A	810	NAG	C4-C5-C6-O6
2	B	810	NAG	C4-C5-C6-O6
2	C	810	NAG	C4-C5-C6-O6
2	D	810	NAG	C4-C5-C6-O6
2	A	812	NAG	O5-C5-C6-O6
2	B	812	NAG	O5-C5-C6-O6
2	C	812	NAG	O5-C5-C6-O6
2	D	812	NAG	O5-C5-C6-O6
2	A	807	NAG	O7-C7-N2-C2
2	B	807	NAG	O7-C7-N2-C2
2	C	807	NAG	O7-C7-N2-C2
2	D	807	NAG	O7-C7-N2-C2
2	A	803	NAG	C4-C5-C6-O6
2	B	803	NAG	C4-C5-C6-O6
2	C	803	NAG	C4-C5-C6-O6
2	D	803	NAG	C4-C5-C6-O6
2	A	810	NAG	O5-C5-C6-O6
2	B	810	NAG	O5-C5-C6-O6
2	C	810	NAG	O5-C5-C6-O6
2	D	810	NAG	O5-C5-C6-O6
2	A	904	NAG	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
2	B	904	NAG	O5-C5-C6-O6
2	D	904	NAG	O5-C5-C6-O6
2	C	904	NAG	O5-C5-C6-O6
2	C	801	NAG	C4-C5-C6-O6
2	A	801	NAG	C4-C5-C6-O6
2	B	801	NAG	C4-C5-C6-O6
2	D	801	NAG	C4-C5-C6-O6
2	A	803	NAG	O5-C5-C6-O6
2	B	803	NAG	O5-C5-C6-O6
2	C	803	NAG	O5-C5-C6-O6
2	D	803	NAG	O5-C5-C6-O6
2	D	903	NAG	C4-C5-C6-O6
2	A	903	NAG	C4-C5-C6-O6
2	B	903	NAG	C4-C5-C6-O6
2	C	903	NAG	C4-C5-C6-O6
2	B	806	NAG	C4-C5-C6-O6
2	D	808	NAG	C4-C5-C6-O6
2	A	808	NAG	C4-C5-C6-O6
2	C	806	NAG	C4-C5-C6-O6
2	B	808	NAG	C4-C5-C6-O6
2	C	808	NAG	C4-C5-C6-O6
2	A	806	NAG	C4-C5-C6-O6
2	D	806	NAG	C4-C5-C6-O6
2	A	801	NAG	C3-C2-N2-C7
2	A	903	NAG	C3-C2-N2-C7
2	B	801	NAG	C3-C2-N2-C7
2	B	903	NAG	C3-C2-N2-C7
2	C	801	NAG	C3-C2-N2-C7
2	C	903	NAG	C3-C2-N2-C7
2	D	801	NAG	C3-C2-N2-C7
2	D	903	NAG	C3-C2-N2-C7
2	A	801	NAG	O5-C5-C6-O6
2	B	801	NAG	O5-C5-C6-O6
2	C	801	NAG	O5-C5-C6-O6
2	D	801	NAG	O5-C5-C6-O6
2	A	801	NAG	C1-C2-N2-C7
2	A	902	NAG	C1-C2-N2-C7
2	B	801	NAG	C1-C2-N2-C7
2	B	902	NAG	C1-C2-N2-C7
2	C	801	NAG	C1-C2-N2-C7
2	C	902	NAG	C1-C2-N2-C7
2	D	801	NAG	C1-C2-N2-C7

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Mol	Chain	Res	Type	Atoms
2	D	902	NAG	C1-C2-N2-C7
2	B	806	NAG	O5-C5-C6-O6
2	C	806	NAG	O5-C5-C6-O6
2	A	806	NAG	O5-C5-C6-O6
2	A	808	NAG	C3-C2-N2-C7
2	A	812	NAG	C3-C2-N2-C7
2	B	808	NAG	C3-C2-N2-C7
2	B	812	NAG	C3-C2-N2-C7
2	C	808	NAG	C3-C2-N2-C7
2	C	812	NAG	C3-C2-N2-C7
2	D	808	NAG	C3-C2-N2-C7
2	D	812	NAG	C3-C2-N2-C7
2	D	806	NAG	O5-C5-C6-O6
2	D	812	NAG	C4-C5-C6-O6
2	A	812	NAG	C4-C5-C6-O6
2	C	812	NAG	C4-C5-C6-O6
2	B	812	NAG	C4-C5-C6-O6

There are no ring outliers.

52 monomers are involved in 406 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	808	NAG	2	0
2	D	904	NAG	8	0
2	A	807	NAG	17	0
2	A	810	NAG	13	0
2	C	902	NAG	8	0
2	B	801	NAG	21	0
3	A	811	NDG	7	0
3	B	811	NDG	7	0
2	B	808	NAG	2	0
2	B	810	NAG	13	0
2	D	806	NAG	12	0
2	B	803	NAG	4	0
2	D	807	NAG	16	0
2	B	812	NAG	3	0
2	D	805	NAG	7	0
3	D	811	NDG	6	0
2	D	902	NAG	8	0
2	C	812	NAG	3	0
2	D	801	NAG	22	0
3	C	804	NDG	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	808	NAG	2	0
2	B	807	NAG	17	0
2	B	809	NAG	8	0
2	C	801	NAG	22	0
3	D	804	NDG	2	0
2	C	809	NAG	8	0
2	A	902	NAG	8	0
2	D	809	NAG	8	0
2	D	803	NAG	4	0
2	C	810	NAG	13	0
2	A	806	NAG	11	0
2	D	812	NAG	3	0
2	A	812	NAG	3	0
2	C	803	NAG	4	0
2	B	806	NAG	11	0
2	D	810	NAG	13	0
2	A	805	NAG	7	0
2	B	805	NAG	7	0
2	C	807	NAG	16	0
2	B	902	NAG	8	0
2	C	806	NAG	12	0
2	C	904	NAG	8	0
2	C	808	NAG	2	0
2	A	809	NAG	8	0
2	A	904	NAG	8	0
2	A	801	NAG	22	0
2	C	805	NAG	7	0
3	A	804	NDG	2	0
3	C	811	NDG	7	0
2	B	904	NAG	8	0
3	B	804	NDG	2	0
2	A	803	NAG	4	0

## 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 Tomogram visualisation

This section contains visualisations of the EMDB entry EMD-1052. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

### 6.1 Orthogonal projections

This section was not generated.

### 6.2 Central slices

This section was not generated.

### 6.3 Largest variance slices

This section was not generated.

### 6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

### 6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

## 7 Tomogram analysis

This section contains the results of statistical analysis of the tomogram.

### 7.1 Map-value distribution

This section was not generated.



## 8 Map-model fit

This section was not generated.