



## Full wwPDB EM Validation Report ⓘ

Dec 13, 2022 – 01:02 AM EST

PDB ID : 3J2Q  
Title : Model of membrane-bound factor VIII organized in 2D crystals  
Authors : Stoilova-Mcphie, S.; Lynch, G.C.; Ludtke, S.; Pettitt, B.M.  
Deposited on : 2012-12-11  
Resolution : 15.00 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB/EMDB 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:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.2

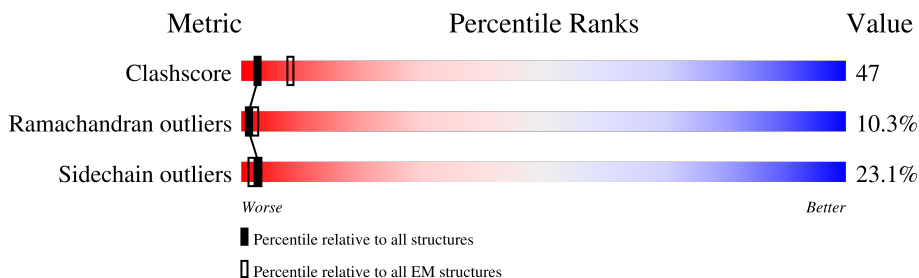
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*ELECTRON CRYSTALLOGRAPHY*

The reported resolution of this entry is 15.00 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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	754	15% (green), 47% (yellow), 19% (orange), 16% (grey), 1% (red)
2	B	684	21% (green), 51% (yellow), 17% (orange), 8% (grey), 2% (red)
3	C	2	50% (yellow), 50% (orange)
4	D	4	100% (orange)

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
4	BMA	D	2	-	-	X	-
4	BMA	D	4	-	-	X	-

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<b>Mol</b>	<b>Type</b>	<b>Chain</b>	<b>Res</b>	<b>Chirality</b>	<b>Geometry</b>	<b>Clashes</b>	<b>Electron density</b>
7	NAG	B	2401	X	-	-	-
7	NAG	B	2402	X	-	-	-

## 2 Entry composition i

There are 7 unique types of molecules in this entry. The entry contains 10317 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 Coagulation factor VIII heavy chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	630	5086	3278	855	928	25	0	0

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	746	PRO	-	expression tag	UNP P00451
A	747	PRO	-	expression tag	UNP P00451
A	748	VAL	-	expression tag	UNP P00451
A	749	LEU	-	expression tag	UNP P00451
A	750	LYS	-	expression tag	UNP P00451
A	751	ARG	-	expression tag	UNP P00451
A	752	HIS	-	expression tag	UNP P00451
A	753	GLN	-	expression tag	UNP P00451
A	754	ARG	-	expression tag	UNP P00451

- Molecule 2 is a protein called Coagulation factor VIII light chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	631	5125	3288	881	924	32	0	0

There is a discrepancy between the modelled and reference sequences:

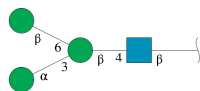
Chain	Residue	Modelled	Actual	Comment	Reference
B	1880	LEU	PHE	SEE REMARK 999	UNP P00451

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



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

- Molecule 4 is an oligosaccharide called alpha-D-mannopyranose-(1-3)-[beta-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
4	D	4	47	26	1	20	0	0

- Molecule 5 is COPPER (II) ION (three-letter code: CU) (formula: Cu).

Mol	Chain	Residues	Atoms		AltConf
5	A	1	Total	Cu	0
			1	1	
5	B	1	Total	Cu	0
			1	1	

- Molecule 6 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
6	A	1	Total	Ca	0
			1	1	

- Molecule 7 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C<sub>8</sub>H<sub>15</sub>NO<sub>6</sub>).

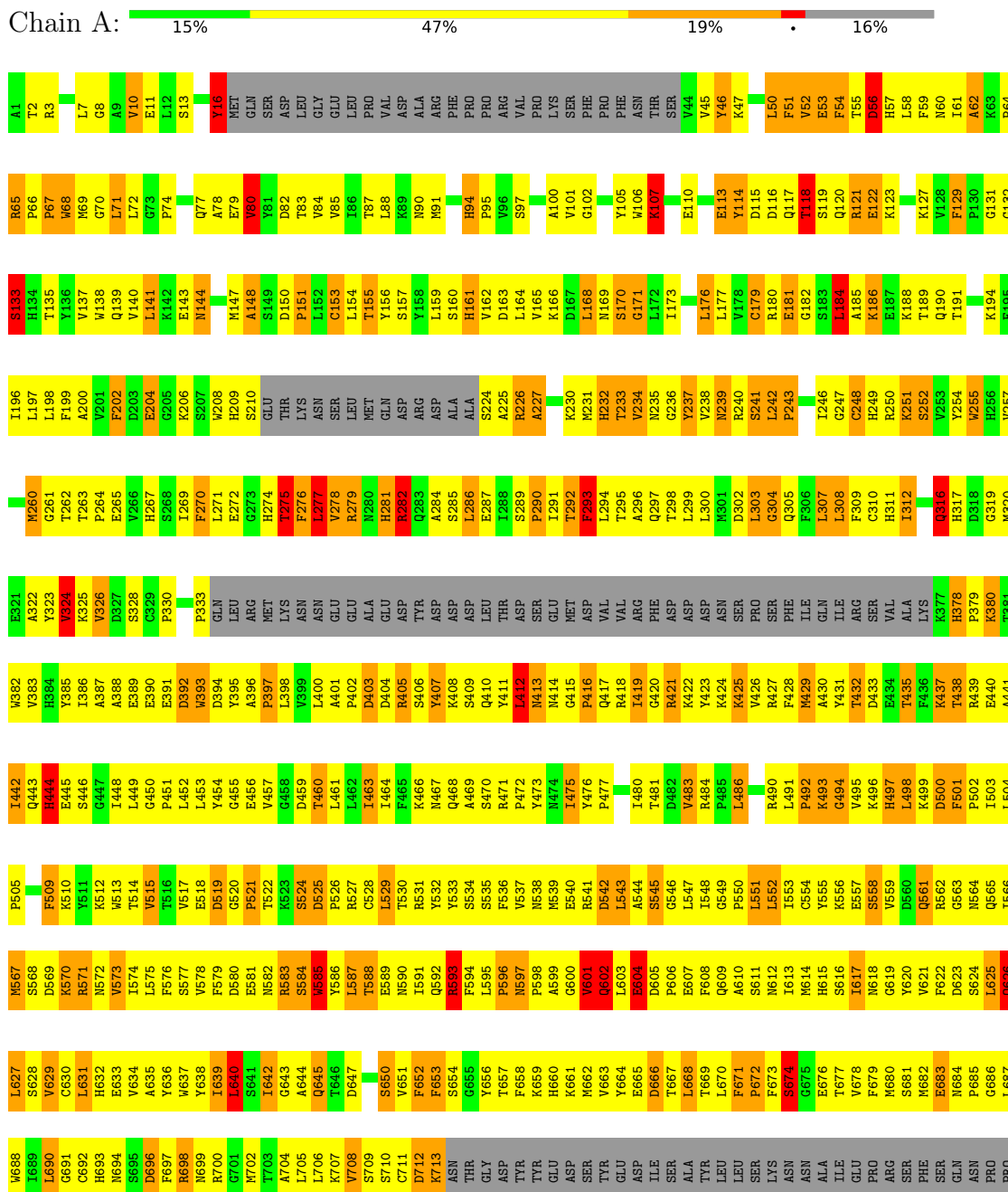


Mol	Chain	Residues	Atoms			AltConf	
			Total	C	N		O
7	B	1	28	16	2	10	0
7	B	1	28	16	2	10	0

### 3 Residue-property plots

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

- Molecule 1: Coagulation factor VIII heavy chain



VAL
LEU
LYS
ARG
HIS
GLN
ARG

• Molecule 2: Coagulation factor VIII light chain



GLU	S1780	S1781	L1851	Y1916	F1983	K2110	W2172	G2247	P2310
ILE	R1761	R1782	L1852	R1917	E1984	K2111	S2173	V2248	Q2311
THR	G1853	P1782	P1854	F1918	T1985	W2112	C2174	K2249	S2312
ARG	H1783	Y1783	P1854	F1918	E1984	Q2113	S2174	S2250	W2313
THR	V1784	S1784	P1854	V1986	V1986	T2114	M2176	L2251	W2314
THR	F1785	F1785	V1857	I1921	V1986	T2115	P2177	L2252	H2315
LEU	V1786	V1786	V1857	G1923	S1991	R2116	L2178	T2253	Q2316
GLN	A1787	S1787	T1860	Y1924	K1992	G2117	G2179	S2254	L2317
SER	A1788	S1788	M1861	I1925	A1993	M2118	M2190	M2255	A2318
ASP	ALA	L1789	M1861	M1926	G1994	T2119	G2179	Y2256	L2319
GLN	ALA	I1790	N1864	D1927	I1995	T2120	L2185	V2257	R2320
GLN	SER	S1791	P1865	T1928	V1996	G2121	S2186	K2258	M2321
GLU	GLU	Y1792	A1866	L1929	R1997	T2122	D2187	E2259	E2322
ILE	ILE	H1793	H1867	P1930	V1998	G2122	A2188	F2260	V2323
ASP	ASP	E1794	G1868	G1931	K1992	V2125	Q2189	L2261	L2324
TYR	TYR	P1728	R1869	L1932	L2001	F2126	Q2189	I2262	G2325
ASP	ASP	Q1729	Q1870	V1933	L2002	F2127	T2191	S2263	G2326
ASP	ASP	F1730	R1871	V1933	G2003	G2128	A2192	S2264	E2327
THR	THR	K1731	L1872	A1935	E2066	M2129	S2193	S2265	A2328
ILE	ILE	K1732	H1873	Q1936	L2006	V2130	M2199	Q2266	Q2329
SER	SER	P1802	E1801	D1937	L2006	D2131	F2200	D2267	D2330
VAL	VAL	R1803	P1802	Q1874	M2010	S2132	W2203	Q2270	L2331
GLU	GLU	E1875	R1803	E1875	M2010	S2133	S2204	W2271	Y2332
GLU	GLU	F1735	R1803	F1876	S2011	G2134	P2205	T2272	
NET	NET	Q1736	V1807	A1877	T2012	I2135	S2206	L2273	
LYS	LYS	E1737	K1808	L4878	L2013	K2136	S2207	F2274	
LYS	LYS	F1738	P1809	F1879	F2014	H2137	A2208	Q2276	
GLU	GLU	T1739	P1809	L1880	L2015	L2075	R2209	K2278	
ASP	ASP	S1742	K1813	L1880	V2016	L2076	H2211	G2279	
ASP	ASP	S1742	T1814	L1880	Y2017	L2077	P2142	V2280	
PHE	PHE	F1743	T1814	I1882	S2017	A2077	P2143	K2281	
ASP	ASP	F1743	F1883	F1883	Y2017	P2078	I2144	I2144	
ILE	ILE	T1744	F1883	A1884	S2018	W2079	I2145	I2145	
TYR	TYR	Q1745	F1884	E1888	W2019	T2080	A2146	R2147	
ASP	ASP	P1746	E1888	E1888	K2020	I2081	R2147	A2146	
ASN	ASN	T1747	Q1820	I1886	C2021	H2082	Y2148	I2148	
GLN	GLN	Y1748	H1821	K1887	M1950	H2082	I2149	I2149	
SER	SER	L1752	H1822	H1888	E1951	T2082	R2150	R2150	
GLN	GLN	M1753	M1823	W1889	H1956	Q2087	L2151	L2151	
SER	SER	E1754	T1826	F1891	H1957	G2088	H2152	H2152	
PRO	PRO	L1755	D1827	T1892	F1958	A2088	P2153	P2153	
ARG	ARG	L1756	K1829	E1893	S1959	R2090	H2154	H2154	
ARG	ARG	G1757	F1830	E1893	G1960	Q2091	H2155	H2155	
SER	SER	F1691	F1830	E1893	H1961	K2092	T2154	T2154	
			D1831	E1893	V1962	F2093	H2155	H2155	
			C1832	E1893	F1963	S2094	Y2156	Y2156	
			K1833	E1893	T1964	S2094	S2157	S2157	
			A1834	E1893	V1965	L2096	I2158	I2158	
			A1836	E1893	R1966	Q2036	G2161	G2161	
			A1836	E1893	K1967	Q2037	T2161	T2161	
			Y1837	E1893	E1969	T2038	L2162	L2162	
			F1838	E1893	E1970	A2039	R2163	R2163	
			S1839	E1893	E1970	A2039	M2164	M2164	
			D1769	E1893	Y1971	S2040	E2165	E2165	
			M1770	E1893	K1972	G2041	L2102	L2102	
			L1706	E1893	M1973	Q2042	I2103	I2103	
			Y1706	E1893	M1973	Q2042	M2104	M2104	
			Y1708	E1893	A1974	Y2043	M2105	M2105	
			Y1708	E1893	T1911	G2044	Y2105	Y2105	
			Y1709	E1893	F1912	Q2045	S2106	S2106	
			G1710	E1893	K1913	W2046	L2107	L2107	
			M1711	E1893	L1914	A2047	D2108	D2108	
			S1712	E1893	K1914	L1978	L2171	L2171	
					M1777	Y1979	P2048	P2048	

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



MAG1
MAG2



- Molecule 4: alpha-D-mannopyranose-(1-3)-[beta-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain D:

100%

MAG1  
BMA2  
MAN3  
BMA4

## 4 Data and refinement statistics

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	81.00Å 71.00Å 100.00Å 67.00° 60.00° 65.00°	Depositor
Resolution (Å)	(Not available) – 15.00	Depositor
% Data completeness (in resolution range)	(Not available) ((Not available)-15.00)	Depositor
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$	-	Xtrriage
Refinement program	unknown	Depositor
R, $R_{free}$	(Not available) , (Not available)	Depositor
Wilson B-factor (Å <sup>2</sup> )	(Not available)	Xtrriage
Anisotropy	(Not available)	Xtrriage
L-test for twinning <sup>1</sup>	$\langle  L  \rangle =$ (Not available), $\langle L^2 \rangle =$ (Not available)	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
Total number of atoms	10317	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	2.0	wwPDB-VP

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

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

## 5 Model quality i

### 5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: NAG, CU, BMA, CA, MAN

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	0.81	12/5230 (0.2%)	0.95	11/7098 (0.2%)
2	B	0.93	20/5270 (0.4%)	1.31	39/7136 (0.5%)
All	All	0.87	32/10500 (0.3%)	1.15	50/14234 (0.4%)

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	7
2	B	2	7
All	All	2	14

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2132	SER	CA-CB	20.34	1.83	1.52
2	B	2020	LYS	CA-C	14.78	1.91	1.52
2	B	2018	SER	CA-C	14.67	1.91	1.52
2	B	2018	SER	N-CA	13.70	1.73	1.46
1	A	121	ARG	CZ-NH1	13.13	1.50	1.33
2	B	2020	LYS	N-CA	12.34	1.71	1.46
2	B	2017	TYR	C-N	12.14	1.61	1.34
2	B	1713	SER	C-O	-12.07	1.00	1.23
1	A	713	LYS	C-O	-12.05	1.00	1.23
1	A	16	TYR	C-O	-12.05	1.00	1.23
1	A	210	SER	C-O	-12.04	1.00	1.23
2	B	2332	TYR	C-O	-12.04	1.00	1.23
2	B	2019	ASN	CB-CG	11.80	1.78	1.51
2	B	2019	ASN	CA-C	11.72	1.83	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	333	PRO	C-O	-11.39	1.00	1.23
2	B	1904	ASN	CG-OD1	9.73	1.45	1.24
2	B	2018	SER	C-N	9.65	1.56	1.34
2	B	2019	ASN	N-CA	9.40	1.65	1.46
2	B	2020	LYS	C-N	9.30	1.55	1.34
2	B	2019	ASN	C-N	9.04	1.54	1.34
1	A	121	ARG	NE-CZ	8.63	1.44	1.33
2	B	1904	ASN	CG-ND2	8.35	1.53	1.32
2	B	2020	LYS	C-O	-8.08	1.07	1.23
1	A	107	LYS	CG-CD	6.53	1.74	1.52
1	A	121	ARG	CZ-NH2	6.53	1.41	1.33
1	A	602	GLN	CD-NE2	6.33	1.48	1.32
2	B	2085	LYS	CA-CB	6.10	1.67	1.53
1	A	122	GLU	CD-OE2	5.42	1.31	1.25
2	B	2020	LYS	CA-CB	5.42	1.65	1.53
2	B	2085	LYS	CG-CD	-5.26	1.34	1.52
1	A	53	GLU	CB-CG	5.16	1.61	1.52
1	A	153	CYS	CB-SG	-5.04	1.73	1.81

All (50) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2020	LYS	O-C-N	35.80	179.97	122.70
2	B	2020	LYS	CA-C-O	-33.53	49.68	120.10
2	B	2017	TYR	O-C-N	-30.67	73.63	122.70
2	B	2018	SER	N-CA-CB	-26.55	70.67	110.50
1	A	121	ARG	NE-CZ-NH2	-24.06	108.27	120.30
1	A	121	ARG	NE-CZ-NH1	23.60	132.10	120.30
2	B	2018	SER	CB-CA-C	20.46	148.98	110.10
2	B	2132	SER	CB-CA-C	20.06	148.22	110.10
2	B	2019	ASN	CB-CA-C	-19.60	71.20	110.40
2	B	2135	ILE	CA-CB-CG1	19.47	148.00	111.00
2	B	2135	ILE	CB-CA-C	17.27	146.13	111.60
2	B	2132	SER	N-CA-CB	-13.84	89.75	110.50
2	B	2020	LYS	C-N-CA	-13.83	87.13	121.70
2	B	2085	LYS	CD-CE-NZ	-13.76	80.05	111.70
2	B	2131	ASP	N-CA-CB	-12.48	88.13	110.60
2	B	2018	SER	CA-CB-OG	-11.94	78.97	111.20
2	B	2131	ASP	CB-CA-C	11.53	133.45	110.40
2	B	2019	ASN	C-N-CA	10.35	147.58	121.70
2	B	2020	LYS	N-CA-C	10.20	138.53	111.00
2	B	2019	ASN	N-CA-C	9.44	136.49	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2018	SER	C-N-CA	9.02	144.24	121.70
2	B	2018	SER	N-CA-C	8.27	133.31	111.00
2	B	2019	ASN	CA-C-N	7.93	134.64	117.20
2	B	1945	LEU	CA-CB-CG	7.79	133.21	115.30
2	B	2135	ILE	N-CA-CB	-7.63	93.25	110.80
1	A	277	LEU	CA-CB-CG	7.46	132.47	115.30
2	B	2019	ASN	CA-CB-CG	7.46	129.81	113.40
2	B	2050	LEU	CA-CB-CG	6.83	131.01	115.30
1	A	121	ARG	CD-NE-CZ	-6.70	114.22	123.60
2	B	2018	SER	CA-C-N	6.68	131.89	117.20
2	B	2020	LYS	CG-CD-CE	-6.26	93.13	111.90
2	B	2019	ASN	O-C-N	-6.20	112.78	122.70
1	A	398	LEU	CA-CB-CG	6.13	129.39	115.30
1	A	184	LEU	CA-CB-CG	5.99	129.09	115.30
2	B	2020	LYS	CA-C-N	5.97	130.32	117.20
1	A	279	ARG	N-CA-C	-5.88	95.11	111.00
2	B	2018	SER	O-C-N	-5.80	113.42	122.70
2	B	2049	LYS	N-CA-C	-5.43	96.33	111.00
2	B	1758	LEU	CA-CB-CG	5.41	127.75	115.30
1	A	713	LYS	CA-C-O	-5.30	108.98	120.10
1	A	210	SER	CA-C-O	-5.29	108.98	120.10
2	B	1713	SER	CA-C-O	-5.28	109.01	120.10
1	A	16	TYR	CA-C-O	-5.28	109.02	120.10
2	B	2332	TYR	CA-C-O	-5.28	109.02	120.10
2	B	2273	LEU	CA-CB-CG	5.24	127.34	115.30
2	B	1971	TYR	CA-CB-CG	5.23	123.34	113.40
2	B	2085	LYS	CB-CA-C	-5.21	99.98	110.40
2	B	2020	LYS	CA-CB-CG	-5.08	102.22	113.40
1	A	640	LEU	CA-CB-CG	5.00	126.81	115.30
2	B	2017	TYR	CA-C-N	5.00	128.21	117.20

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	B	2018	SER	CA
2	B	2135	ILE	CB

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	237	TYR	Peptide
1	A	278	VAL	Peptide

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Mol	Chain	Res	Type	Group
1	A	281	HIS	Peptide
1	A	282	ARG	Peptide
1	A	293	PHE	Peptide
1	A	56	ASP	Peptide
1	A	673	PHE	Peptide
2	B	1705	ARG	Peptide
2	B	1878	LEU	Peptide
2	B	1885	GLU	Peptide
2	B	2017	TYR	Mainchain
2	B	2019	ASN	Mainchain
2	B	2048	PRO	Peptide
2	B	2141	ASN	Peptide

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	5086	0	4971	442	3289
2	B	5125	0	4992	575	3230
3	C	28	0	25	1	0
4	D	47	0	40	2	54
5	A	1	0	0	1	0
5	B	1	0	0	0	0
6	A	1	0	0	0	0
7	B	28	0	26	1	0
All	All	10317	0	10054	948	3311

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 47.

All (948) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:LYS:CG	1:A:107:LYS:CD	1.74	1.61
2:B:1710:GLY:CA	2:B:2090:ARG:HH11	1.19	1.56
1:A:119:SER:CB	2:B:2139:ILE:HG12	1.32	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2132:SER:CB	2:B:2132:SER:CA	1.83	1.52
2:B:2019:ASN:CB	2:B:2019:ASN:CG	1.78	1.50
2:B:2020:LYS:CA	2:B:2020:LYS:N	1.71	1.50
2:B:2018:SER:N	2:B:2018:SER:CA	1.73	1.48
2:B:2019:ASN:C	2:B:2019:ASN:CA	1.83	1.46
2:B:2017:TYR:CB	2:B:2024:PRO:HB2	1.48	1.41
2:B:2018:SER:HA	2:B:2018:SER:C	1.39	1.40
1:A:117:GLN:NE2	2:B:2137:HIS:N	1.69	1.38
2:B:2018:SER:CA	2:B:2018:SER:C	1.91	1.38
2:B:2017:TYR:HA	2:B:2024:PRO:N	1.40	1.36
2:B:2018:SER:N	2:B:2018:SER:CB	1.89	1.34
1:A:117:GLN:NE2	2:B:2136:LYS:C	1.81	1.31
1:A:119:SER:HB3	2:B:2139:ILE:CG1	1.63	1.27
2:B:2017:TYR:HA	2:B:2024:PRO:CD	1.64	1.26
1:A:117:GLN:CD	2:B:2137:HIS:N	1.89	1.26
2:B:2019:ASN:CB	2:B:2019:ASN:C	2.02	1.24
2:B:1711:MET:O	2:B:2132:SER:CA	1.86	1.23
2:B:2017:TYR:HB3	2:B:2024:PRO:CB	1.62	1.23
2:B:1710:GLY:CA	2:B:2090:ARG:NH1	2.03	1.21
2:B:1993:ALA:CB	2:B:2022:GLN:O	1.90	1.20
1:A:119:SER:CB	2:B:2139:ILE:CG1	2.16	1.19
2:B:1963:PHE:CD2	2:B:1986:VAL:HG21	1.77	1.19
2:B:1712:SER:HB3	2:B:2132:SER:N	1.56	1.19
1:A:378:HIS:HB3	1:A:379:PRO:CD	1.71	1.18
2:B:2013:LEU:CD2	2:B:2054:HIS:NE2	2.07	1.16
1:A:412:LEU:CB	1:A:421:ARG:HG2	1.76	1.13
2:B:2013:LEU:CD2	2:B:2054:HIS:CE1	2.30	1.13
1:A:572:ASN:HB3	1:A:637:TRP:CZ3	1.82	1.13
2:B:1993:ALA:HB1	2:B:2023:THR:HA	1.21	1.13
2:B:1993:ALA:HB3	2:B:2022:GLN:O	1.48	1.10
2:B:2047:ALA:HA	2:B:2062:TRP:HD1	1.10	1.10
2:B:2017:TYR:C	2:B:2023:THR:OG1	1.89	1.09
2:B:1710:GLY:HA3	2:B:2090:ARG:HD2	1.13	1.09
2:B:2013:LEU:HD23	2:B:2054:HIS:NE2	1.66	1.09
2:B:1921:ILE:N	2:B:1925:ILE:HG13	1.67	1.08
1:A:119:SER:OG	2:B:2139:ILE:CD1	2.01	1.08
2:B:2052:ARG:HG2	2:B:2052:ARG:HH11	1.19	1.07
2:B:1710:GLY:HA2	2:B:2090:ARG:HH11	1.02	1.07
2:B:2017:TYR:C	2:B:2023:THR:HG1	1.56	1.07
2:B:1993:ALA:HB1	2:B:2023:THR:CA	1.85	1.07
2:B:2013:LEU:HD21	2:B:2054:HIS:CE1	1.90	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:ASP:OD2	2:B:2135:ILE:HB	1.56	1.06
2:B:1710:GLY:HA3	2:B:2090:ARG:HH11	1.18	1.06
2:B:1706:LEU:HD23	2:B:1730:PHE:HB3	1.13	1.06
2:B:2087:GLN:HE21	2:B:2135:ILE:HG12	1.21	1.05
1:A:525:ASP:HB3	1:A:526:PRO:HD2	1.33	1.05
2:B:2013:LEU:HD21	2:B:2054:HIS:CD2	1.90	1.05
2:B:1963:PHE:HD2	2:B:1986:VAL:CG2	1.68	1.05
2:B:2018:SER:HB3	2:B:2018:SER:H	1.09	1.04
2:B:1710:GLY:HA2	2:B:2090:ARG:NH1	1.66	1.04
2:B:2018:SER:N	2:B:2018:SER:HB3	1.62	1.04
2:B:1725:GLY:O	2:B:2093:PHE:CE2	2.10	1.03
1:A:117:GLN:HG2	2:B:2085:LYS:HG3	1.40	1.03
2:B:2047:ALA:HA	2:B:2062:TRP:CD1	1.93	1.02
1:A:118:THR:N	2:B:2137:HIS:ND1	2.07	1.02
2:B:2015:LEU:HD11	2:B:2024:PRO:HB3	1.39	1.02
1:A:572:ASN:HB3	1:A:637:TRP:HZ3	1.13	1.02
1:A:287:GLU:HB2	1:A:671:PHE:CE1	1.94	1.01
1:A:412:LEU:HB3	1:A:421:ARG:HG2	1.43	1.01
2:B:1725:GLY:O	2:B:2093:PHE:CD2	2.14	1.01
2:B:1921:ILE:H	2:B:1925:ILE:CG1	1.72	1.01
1:A:501:PHE:H	1:A:502:PRO:HD3	1.21	1.01
2:B:1963:PHE:HD2	2:B:1986:VAL:HG21	0.88	1.00
2:B:2017:TYR:CA	2:B:2024:PRO:CB	2.40	1.00
1:A:289:SER:HB2	1:A:290:PRO:HD2	1.43	1.00
2:B:1921:ILE:H	2:B:1925:ILE:HG13	0.84	1.00
2:B:2013:LEU:HG	2:B:2054:HIS:CE1	1.97	0.99
2:B:1710:GLY:CA	2:B:2090:ARG:HD2	1.93	0.99
2:B:1712:SER:HB3	2:B:2132:SER:H	1.28	0.99
1:A:412:LEU:HB2	1:A:421:ARG:HG2	1.42	0.99
2:B:1706:LEU:HD23	2:B:1730:PHE:CB	1.91	0.99
2:B:2017:TYR:C	2:B:2023:THR:CG2	2.31	0.99
2:B:1711:MET:O	2:B:2132:SER:C	1.99	0.99
2:B:1712:SER:CB	2:B:2132:SER:H	1.76	0.98
1:A:199:PHE:CE2	1:A:269:ILE:HG12	1.99	0.98
2:B:2017:TYR:CA	2:B:2024:PRO:HB2	1.92	0.98
1:A:572:ASN:CB	1:A:637:TRP:HZ3	1.75	0.98
2:B:1923:GLY:H	2:B:1925:ILE:HG12	1.27	0.98
2:B:2017:TYR:CA	2:B:2024:PRO:CD	2.39	0.97
2:B:2015:LEU:HD12	2:B:2024:PRO:HG3	1.47	0.97
2:B:2017:TYR:HA	2:B:2024:PRO:CA	1.94	0.96
2:B:2087:GLN:NE2	2:B:2135:ILE:HG12	1.77	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:119:SER:OG	2:B:2139:ILE:HD11	1.62	0.96
1:A:117:GLN:NE2	2:B:2137:HIS:CA	2.26	0.96
1:A:574:ILE:HB	1:A:639:ILE:HG22	1.47	0.95
2:B:1706:LEU:CD2	2:B:1730:PHE:HB3	1.97	0.94
2:B:2013:LEU:CG	2:B:2054:HIS:CE1	2.50	0.94
2:B:2013:LEU:HD21	2:B:2054:HIS:CG	2.02	0.94
1:A:671:PHE:HB3	1:A:672:PRO:CD	1.98	0.94
1:A:670:LEU:HD22	1:A:674:SER:HB3	1.49	0.93
1:A:277:LEU:HB2	1:A:297:GLN:HG2	1.51	0.93
2:B:1706:LEU:HD22	2:B:1732:LYS:H	1.31	0.93
2:B:2015:LEU:HD11	2:B:2024:PRO:CB	1.97	0.93
2:B:2132:SER:CB	2:B:2132:SER:N	2.33	0.92
2:B:1869:ARG:HE	2:B:1941:ARG:HH22	1.14	0.92
1:A:378:HIS:HB3	1:A:379:PRO:HD3	1.52	0.92
2:B:1993:ALA:HB1	2:B:2022:GLN:O	1.68	0.92
2:B:2020:LYS:N	2:B:2020:LYS:HA	1.81	0.92
2:B:2017:TYR:C	2:B:2023:THR:HG23	1.90	0.92
1:A:294:LEU:HD21	2:B:1971:TYR:HE2	1.33	0.90
2:B:2013:LEU:CD2	2:B:2054:HIS:CD2	2.52	0.90
2:B:1712:SER:CB	2:B:2132:SER:N	2.34	0.90
2:B:2015:LEU:CD1	2:B:2024:PRO:CG	2.51	0.89
2:B:2017:TYR:CD1	2:B:2018:SER:HB3	2.06	0.89
1:A:378:HIS:HB3	1:A:379:PRO:HD2	1.52	0.88
2:B:1706:LEU:HD21	2:B:1732:LYS:HE3	1.54	0.88
2:B:2015:LEU:CD1	2:B:2024:PRO:HG3	2.03	0.88
1:A:626:GLN:HG2	1:A:627:LEU:H	1.39	0.88
2:B:2087:GLN:HE21	2:B:2135:ILE:CG1	1.86	0.87
2:B:2037:ILE:HG13	2:B:2040:SER:O	1.73	0.87
2:B:2037:ILE:HG12	2:B:2038:THR:N	1.90	0.87
2:B:1710:GLY:HA3	2:B:2090:ARG:CD	2.04	0.86
2:B:2052:ARG:HH11	2:B:2052:ARG:CG	1.88	0.86
1:A:114:TYR:OH	2:B:1997:ARG:NH1	2.08	0.86
1:A:16:TYR:HD1	1:A:16:TYR:H	1.23	0.86
1:A:294:LEU:HD21	2:B:1971:TYR:CE2	2.11	0.86
1:A:671:PHE:HB3	1:A:672:PRO:HD3	1.57	0.86
2:B:2017:TYR:HA	2:B:2024:PRO:CB	2.04	0.86
1:A:169:ASN:HD21	1:A:262:THR:HB	1.39	0.86
2:B:2013:LEU:HD21	2:B:2054:HIS:NE2	1.82	0.86
2:B:1712:SER:HB3	2:B:2133:SER:N	1.92	0.85
2:B:2020:LYS:CA	2:B:2021:CYS:HA	2.07	0.85
1:A:232:HIS:O	1:A:232:HIS:ND1	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:643:GLY:O	1:A:645:GLN:NE2	2.09	0.85
2:B:1849:SER:OG	2:B:1888:SER:HB3	1.77	0.85
2:B:1739:THR:HB	2:B:1745:GLN:HB2	1.59	0.84
2:B:2218:ALA:HB3	2:B:2248:VAL:HG11	1.59	0.84
1:A:16:TYR:HD1	1:A:16:TYR:N	1.75	0.84
2:B:1756:LEU:O	2:B:1759:LEU:HD12	1.77	0.84
1:A:100:ALA:HB2	1:A:138:TRP:CZ2	2.12	0.84
1:A:117:GLN:CD	2:B:2137:HIS:CA	2.20	0.84
2:B:1712:SER:OG	2:B:2133:SER:HB2	1.78	0.84
2:B:1759:LEU:HD23	2:B:1852:ILE:HG22	1.60	0.83
2:B:1789:LEU:HB2	2:B:1823:MET:HG3	1.60	0.83
1:A:117:GLN:HE22	2:B:2136:LYS:C	1.74	0.83
2:B:1877:ALA:O	2:B:1878:LEU:HD12	1.78	0.83
2:B:1798:GLN:CG	2:B:1802:PRO:HD2	2.06	0.83
1:A:118:THR:HG22	1:A:122:GLU:HB3	1.60	0.83
1:A:276:PHE:CE1	1:A:518:GLU:O	2.31	0.83
1:A:132:GLY:O	1:A:133:SER:HB2	1.80	0.82
2:B:1995:ILE:HB	2:B:2085:LYS:HZ3	1.43	0.81
1:A:115:ASP:OD2	2:B:2135:ILE:CB	2.28	0.81
1:A:153:CYS:HA	1:A:179:CYS:HB3	1.62	0.81
1:A:271:LEU:HD23	1:A:308:LEU:HD22	1.61	0.81
2:B:2234:PHE:CD2	2:B:2238:MET:HG3	2.16	0.81
1:A:287:GLU:HB2	1:A:671:PHE:HE1	1.39	0.81
1:A:287:GLU:HB2	1:A:671:PHE:CD1	2.15	0.81
2:B:2018:SER:CA	2:B:2023:THR:HG21	2.11	0.81
1:A:87:THR:HG22	1:A:135:THR:HG23	1.63	0.80
1:A:630:CYS:HB2	1:A:709:SER:O	1.81	0.80
2:B:1929:LEU:H	2:B:2012:THR:HG23	1.46	0.80
1:A:270:PHE:O	1:A:308:LEU:HD13	1.82	0.80
2:B:2015:LEU:HD11	2:B:2024:PRO:CG	2.10	0.80
2:B:2020:LYS:HA	2:B:2021:CYS:CB	2.10	0.80
2:B:2047:ALA:HB1	2:B:2048:PRO:HD2	1.60	0.80
1:A:557:GLU:HA	1:A:561:GLN:HG3	1.65	0.79
2:B:2314:VAL:HG13	2:B:2315:HIS:H	1.45	0.79
2:B:1885:GLU:HG3	2:B:1914:GLU:OE2	1.82	0.79
2:B:1781:ARG:HH22	2:B:1888:SER:HA	1.48	0.79
1:A:186:LYS:O	1:A:190:GLN:HB2	1.81	0.78
1:A:660:HIS:O	1:A:661:LYS:HG2	1.84	0.78
2:B:1921:ILE:O	2:B:1922:ASN:HB2	1.81	0.78
1:A:429:MET:HG3	1:A:439:ARG:HH22	1.48	0.78
1:A:525:ASP:HB3	1:A:526:PRO:CD	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1923:GLY:H	2:B:1925:ILE:CG1	1.98	0.77
2:B:2017:TYR:C	2:B:2023:THR:CB	2.51	0.77
2:B:1912:PHE:O	2:B:1916:TYR:HB2	1.84	0.77
2:B:1798:GLN:HG2	2:B:1802:PRO:HD2	1.66	0.77
1:A:121:ARG:NH1	7:B:2402:NAG:O3	2.16	0.77
2:B:1711:MET:O	2:B:2132:SER:CB	2.33	0.77
2:B:2015:LEU:HD12	2:B:2024:PRO:CG	2.11	0.77
1:A:16:TYR:N	1:A:16:TYR:CD1	2.49	0.77
2:B:1706:LEU:HD13	2:B:1732:LYS:HB2	1.66	0.76
2:B:2017:TYR:HB3	2:B:2024:PRO:HB2	0.79	0.76
1:A:117:GLN:CD	2:B:2137:HIS:H	1.86	0.76
2:B:2013:LEU:HD21	2:B:2054:HIS:ND1	1.99	0.76
2:B:1712:SER:HB3	2:B:2133:SER:H	1.51	0.76
2:B:2017:TYR:CA	2:B:2024:PRO:CG	2.63	0.76
1:A:117:GLN:HG2	2:B:2085:LYS:CG	2.16	0.75
2:B:2314:VAL:HG13	2:B:2315:HIS:N	2.01	0.75
1:A:164:LEU:HD22	2:B:2003:GLY:HA2	1.67	0.75
1:A:117:GLN:CG	2:B:2085:LYS:HG3	2.17	0.75
2:B:1984:GLU:OE1	2:B:1984:GLU:HA	1.87	0.75
1:A:246:ILE:HD12	1:A:247:GLY:H	1.52	0.75
2:B:1834:ALA:HB2	2:B:1943:TYR:HD2	1.52	0.74
1:A:107:LYS:CD	1:A:107:LYS:CB	2.65	0.74
1:A:492:PRO:O	1:A:494:GLY:N	2.18	0.74
2:B:1993:ALA:CB	2:B:2022:GLN:C	2.55	0.74
2:B:1712:SER:HB2	2:B:2131:ASP:CB	2.18	0.74
2:B:2037:ILE:HG12	2:B:2038:THR:H	1.52	0.74
1:A:117:GLN:CG	2:B:2085:LYS:HA	2.17	0.74
2:B:2053:LEU:HD11	2:B:2135:ILE:CG2	2.18	0.74
1:A:117:GLN:HE21	2:B:2137:HIS:CA	1.99	0.74
2:B:2017:TYR:HA	2:B:2024:PRO:CG	2.17	0.74
2:B:1994:GLY:H	2:B:2024:PRO:HD3	1.53	0.74
2:B:2118:ASN:ND2	2:B:2141:ASN:HB3	2.04	0.73
2:B:1710:GLY:N	2:B:2090:ARG:HH11	1.85	0.73
2:B:1710:GLY:N	2:B:2090:ARG:NH1	2.37	0.73
2:B:2120:THR:HG23	2:B:2121:GLY:H	1.51	0.73
1:A:117:GLN:HE21	2:B:2136:LYS:C	1.89	0.73
1:A:471:ARG:HG3	1:A:585:TRP:CE3	2.22	0.73
2:B:1706:LEU:CD1	2:B:1732:LYS:HB2	2.19	0.73
2:B:1737:GLU:HB2	2:B:1761:PRO:HG3	1.71	0.73
2:B:1921:ILE:HB	2:B:1925:ILE:HD12	1.70	0.73
1:A:119:SER:OG	2:B:2139:ILE:HG12	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2018:SER:N	2:B:2023:THR:CG2	2.53	0.72
2:B:2218:ALA:CB	2:B:2248:VAL:HG11	2.19	0.72
2:B:1789:LEU:HB2	2:B:1823:MET:CG	2.18	0.72
2:B:1798:GLN:HG3	2:B:1802:PRO:HD2	1.71	0.72
1:A:574:ILE:HB	1:A:639:ILE:CG2	2.19	0.72
1:A:501:PHE:N	1:A:502:PRO:HD3	2.00	0.72
1:A:501:PHE:H	1:A:502:PRO:CD	2.02	0.71
2:B:2094:SER:HB3	2:B:2158:ILE:HD13	1.71	0.71
1:A:7:LEU:CD1	1:A:74:PRO:HG2	2.19	0.71
1:A:277:LEU:HD23	1:A:297:GLN:HE21	1.54	0.71
2:B:2017:TYR:CA	2:B:2024:PRO:HD2	2.06	0.71
2:B:2052:ARG:HG2	2:B:2052:ARG:NH1	1.98	0.71
2:B:1864:ASN:HD22	2:B:1865:PRO:HD2	1.56	0.71
1:A:117:GLN:NE2	2:B:2136:LYS:O	2.24	0.71
1:A:428:PHE:HE2	1:A:475:ILE:CG2	2.03	0.71
2:B:2017:TYR:N	2:B:2024:PRO:CG	2.43	0.71
1:A:107:LYS:CG	1:A:107:LYS:CE	2.68	0.71
2:B:2020:LYS:HA	2:B:2021:CYS:CA	2.21	0.71
1:A:54:PHE:H	1:A:54:PHE:HD1	1.37	0.70
1:A:386:ILE:HD12	1:A:463:ILE:HD11	1.72	0.70
1:A:117:GLN:NE2	2:B:2137:HIS:HA	1.98	0.70
1:A:50:LEU:HD21	1:A:71:LEU:HA	1.73	0.70
2:B:2225:ASN:O	2:B:2228:GLU:HB2	1.92	0.70
2:B:1923:GLY:N	2:B:1925:ILE:HG12	2.05	0.70
2:B:1996:TRP:HB2	2:B:2014:PHE:CE2	2.27	0.70
2:B:2017:TYR:CB	2:B:2024:PRO:CB	2.30	0.70
1:A:412:LEU:HB2	1:A:421:ARG:CG	2.18	0.70
2:B:2089:ALA:O	2:B:2132:SER:HB3	1.92	0.70
2:B:2199:MET:HG3	2:B:2200:PHE:N	2.06	0.70
1:A:393:TRP:HA	1:A:393:TRP:CE3	2.25	0.70
2:B:1834:ALA:HB2	2:B:1943:TYR:CD2	2.27	0.70
2:B:2020:LYS:HA	2:B:2021:CYS:HB2	1.72	0.70
1:A:464:ILE:HG23	1:A:510:LYS:HG2	1.73	0.70
2:B:2035:PHE:CD2	2:B:2074:ASP:HB2	2.27	0.70
1:A:386:ILE:HA	1:A:430:ALA:HA	1.74	0.70
2:B:1759:LEU:HG	2:B:1879:PHE:CD2	2.27	0.70
2:B:1995:ILE:CG2	2:B:2085:LYS:NZ	2.56	0.69
1:A:378:HIS:CB	1:A:379:PRO:HD3	2.22	0.69
1:A:378:HIS:CB	1:A:379:PRO:CD	2.58	0.69
2:B:1869:ARG:NE	2:B:1941:ARG:HH22	1.87	0.69
1:A:626:GLN:HB2	1:A:705:LEU:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1959:SER:HB3	2:B:1997:ARG:HH22	1.57	0.69
1:A:119:SER:OG	2:B:2139:ILE:CG1	2.31	0.69
1:A:572:ASN:HB3	1:A:637:TRP:CE3	2.27	0.69
2:B:2053:LEU:HD11	2:B:2135:ILE:HG21	1.74	0.69
1:A:497:HIS:CE1	1:A:499:LYS:HG2	2.27	0.69
2:B:1712:SER:HB3	2:B:2132:SER:CA	2.23	0.68
2:B:2018:SER:N	2:B:2023:THR:HG21	2.08	0.68
1:A:413:ASN:HB3	1:A:595:LEU:HD23	1.73	0.68
2:B:1921:ILE:O	2:B:1921:ILE:HG22	1.93	0.68
1:A:527:ARG:HH22	1:A:562:ARG:HB3	1.56	0.68
2:B:2192:ALA:HB2	2:B:2205:PRO:HB3	1.75	0.68
2:B:2087:GLN:HB2	2:B:2135:ILE:HG23	1.76	0.68
2:B:2017:TYR:CA	2:B:2024:PRO:N	2.37	0.68
1:A:271:LEU:CD2	1:A:308:LEU:HD22	2.24	0.67
1:A:630:CYS:O	1:A:633:GLU:HB2	1.95	0.67
2:B:1995:ILE:CB	2:B:2085:LYS:HZ3	2.07	0.67
1:A:147:MET:HG2	2:B:1972:LYS:HD3	1.76	0.67
1:A:626:GLN:HG2	1:A:627:LEU:N	2.08	0.67
1:A:8:GLY:O	1:A:52:VAL:HG23	1.94	0.67
2:B:2094:SER:HB3	2:B:2158:ILE:CD1	2.24	0.67
2:B:2019:ASN:CG	2:B:2019:ASN:C	2.53	0.67
1:A:453:LEU:HB3	1:A:551:LEU:HD23	1.77	0.67
1:A:117:GLN:HE21	2:B:2137:HIS:HA	1.59	0.66
1:A:480:ILE:HG12	1:A:515:VAL:HG13	1.76	0.66
2:B:2025:LEU:HD12	2:B:2166:LEU:HB3	1.76	0.66
2:B:2218:ALA:CB	2:B:2248:VAL:CG1	2.73	0.66
1:A:117:GLN:NE2	2:B:2085:LYS:HA	2.11	0.66
1:A:535:SER:HB3	1:A:547:LEU:HD13	1.77	0.66
1:A:310:CYS:SG	5:A:803:CU:CU	1.84	0.66
2:B:2261:LEU:HB2	2:B:2309:HIS:HB2	1.78	0.66
1:A:159:LEU:HD12	1:A:160:SER:H	1.61	0.65
2:B:1711:MET:O	2:B:2132:SER:O	2.14	0.65
2:B:1706:LEU:HG	2:B:1707:TRP:HB2	1.77	0.65
2:B:2013:LEU:HG	2:B:2054:HIS:HE1	1.53	0.65
1:A:117:GLN:HG2	2:B:2085:LYS:CA	2.27	0.65
2:B:1712:SER:HB2	2:B:2131:ASP:CG	2.17	0.65
1:A:53:GLU:OE2	1:A:65:ARG:HG2	1.96	0.65
2:B:2085:LYS:HE3	2:B:2167:MET:SD	2.37	0.65
2:B:1936:GLN:HG2	2:B:2019:ASN:H	1.62	0.65
1:A:117:GLN:CD	2:B:2085:LYS:HA	2.17	0.65
1:A:275:THR:HG21	1:A:286:LEU:HD22	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2210:LEU:HD11	2:B:2244:THR:HG22	1.79	0.65
1:A:230:LYS:HA	1:A:230:LYS:HZ2	1.63	0.64
2:B:2118:ASN:H	2:B:2142:PRO:HD3	1.61	0.64
1:A:694:ASN:O	1:A:698:ARG:HG2	1.97	0.64
1:A:55:THR:HG23	1:A:60:ASN:HD21	1.61	0.64
2:B:1712:SER:HB2	2:B:2131:ASP:HB2	1.78	0.64
2:B:1695:THR:HB	2:B:1770:ASN:HD22	1.62	0.64
1:A:119:SER:HB3	2:B:2139:ILE:HG12	0.67	0.64
1:A:651:VAL:HG22	1:A:668:LEU:HB3	1.80	0.64
2:B:1781:ARG:NH2	2:B:1888:SER:HA	2.13	0.64
1:A:115:ASP:OD2	2:B:2135:ILE:CG1	2.45	0.64
2:B:1993:ALA:HB3	2:B:2022:GLN:C	2.15	0.64
2:B:1782:PRO:HG3	2:B:1809:PRO:HD3	1.80	0.64
1:A:156:TYR:HA	1:A:293:PHE:CE2	2.34	0.63
2:B:1997:ARG:O	2:B:1997:ARG:NH2	2.32	0.63
2:B:1995:ILE:CG2	2:B:2085:LYS:HZ3	2.12	0.63
1:A:277:LEU:HB3	1:A:296:ALA:HA	1.80	0.63
2:B:2298:ASP:HB3	2:B:2299:PRO:HD3	1.80	0.63
1:A:117:GLN:HG2	2:B:2085:LYS:HA	1.79	0.63
1:A:279:ARG:C	1:A:281:HIS:H	2.02	0.62
1:A:393:TRP:HA	1:A:393:TRP:HE3	1.63	0.62
1:A:275:THR:HA	1:A:298:THR:CG2	2.29	0.62
1:A:293:PHE:N	1:A:293:PHE:CD1	2.67	0.62
2:B:1914:GLU:HG3	2:B:1918:PHE:CD2	2.34	0.62
2:B:2145:ILE:O	2:B:2145:ILE:HD12	1.99	0.62
1:A:141:LEU:N	1:A:144:ASN:HD21	1.97	0.62
2:B:1712:SER:CB	2:B:2133:SER:N	2.62	0.62
1:A:234:VAL:C	1:A:236:GLY:H	2.03	0.62
1:A:271:LEU:HD23	1:A:308:LEU:CD2	2.28	0.62
2:B:1997:ARG:HB2	2:B:2013:LEU:HA	1.80	0.62
2:B:2037:ILE:HG22	2:B:2071:ILE:HA	1.81	0.62
1:A:230:LYS:HZ1	1:A:231:MET:H	1.47	0.62
1:A:299:LEU:C	1:A:300:LEU:HG	2.20	0.62
2:B:1789:LEU:HD22	2:B:1791:SER:OG	2.00	0.62
1:A:100:ALA:HB2	1:A:138:TRP:CH2	2.34	0.62
1:A:246:ILE:HG13	1:A:247:GLY:N	2.14	0.62
2:B:1787:SER:HB2	2:B:1836:ALA:O	2.00	0.62
1:A:286:LEU:HD22	1:A:286:LEU:H	1.65	0.62
1:A:3:ARG:NH1	1:A:78:ALA:HA	2.15	0.62
1:A:249:HIS:NE2	1:A:250:ARG:HG2	2.15	0.62
2:B:1704:GLU:HB3	2:B:1732:LYS:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1833:LYS:HG2	2:B:1966:ARG:HH22	1.65	0.61
2:B:1964:THR:O	2:B:1986:VAL:HG23	2.00	0.61
1:A:491:LEU:O	1:A:493:LYS:N	2.34	0.61
1:A:638:TYR:CD1	1:A:677:THR:HG23	2.35	0.61
2:B:2019:ASN:C	2:B:2019:ASN:HB2	2.18	0.61
1:A:572:ASN:CG	1:A:637:TRP:HZ3	2.04	0.61
2:B:2027:MET:HG3	2:B:2165:GLU:HA	1.83	0.61
2:B:2130:VAL:O	2:B:2131:ASP:HB3	1.97	0.61
1:A:129:PHE:N	1:A:129:PHE:CD2	2.68	0.61
2:B:1995:ILE:HG22	2:B:2085:LYS:NZ	2.16	0.61
2:B:1995:ILE:HB	2:B:2085:LYS:NZ	2.15	0.61
2:B:1993:ALA:HB1	2:B:2022:GLN:C	2.17	0.61
1:A:575:LEU:HD11	1:A:642:ILE:HG22	1.83	0.60
2:B:1787:SER:OG	2:B:1788:SER:N	2.33	0.60
2:B:2020:LYS:HA	2:B:2021:CYS:HA	1.80	0.60
1:A:282:ARG:HD2	1:A:522:THR:HG21	1.82	0.60
1:A:246:ILE:CD1	1:A:247:GLY:H	2.14	0.60
2:B:2047:ALA:HB1	2:B:2048:PRO:CD	2.31	0.60
1:A:85:VAL:HG12	1:A:85:VAL:O	2.01	0.60
1:A:274:HIS:CE1	1:A:519:ASP:HB3	2.37	0.60
2:B:2017:TYR:HA	2:B:2024:PRO:HD2	1.62	0.60
2:B:2048:PRO:O	2:B:2049:LYS:HB2	2.00	0.60
1:A:666:ASP:HB3	2:B:1835:TRP:HZ3	1.66	0.60
2:B:2242:GLY:HA3	2:B:2296:SER:HA	1.84	0.60
1:A:275:THR:O	1:A:275:THR:HG23	2.00	0.60
2:B:2193:SER:HB3	2:B:2228:GLU:OE1	2.01	0.60
2:B:1888:SER:O	2:B:1890:TYR:N	2.35	0.60
2:B:2052:ARG:CG	2:B:2052:ARG:NH1	2.57	0.60
1:A:234:VAL:O	1:A:236:GLY:N	2.35	0.60
1:A:275:THR:OG1	1:A:286:LEU:HD21	2.01	0.60
1:A:626:GLN:CG	1:A:627:LEU:N	2.64	0.60
2:B:1890:TYR:HA	2:B:1893:GLU:OE1	2.02	0.60
1:A:267:HIS:ND1	1:A:310:CYS:SG	2.74	0.59
1:A:477:PRO:HG3	1:A:513:TRP:CE2	2.37	0.59
2:B:2066:GLU:HB3	2:B:2069:SER:OG	2.01	0.59
2:B:2096:LEU:HB3	2:B:2158:ILE:HD12	1.84	0.59
1:A:393:TRP:HE1	1:A:448:ILE:HB	1.67	0.59
2:B:2052:ARG:O	2:B:2163:ARG:HB2	2.02	0.59
2:B:2281:LYS:HG2	2:B:2283:PHE:CZ	2.37	0.59
1:A:199:PHE:HE2	1:A:269:ILE:HG12	1.61	0.59
2:B:2149:ILE:N	2:B:2149:ILE:HD12	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:PHE:HA	1:A:62:ALA:HB3	1.85	0.59
1:A:525:ASP:CB	1:A:526:PRO:HD2	2.21	0.59
1:A:246:ILE:CD1	1:A:326:VAL:H	2.15	0.59
1:A:289:SER:HB2	1:A:290:PRO:CD	2.27	0.59
2:B:2031:HIS:HB2	2:B:2034:ASP:HB2	1.84	0.59
1:A:430:ALA:O	1:A:440:GLU:HB2	2.03	0.58
1:A:540:GLU:C	1:A:542:ASP:N	2.52	0.58
2:B:2074:ASP:O	2:B:2076:LEU:HD22	2.03	0.58
2:B:1710:GLY:HA3	2:B:2090:ARG:NH1	1.94	0.58
2:B:1937:ASP:O	2:B:1938:GLN:C	2.42	0.58
2:B:2019:ASN:C	2:B:2019:ASN:ND2	2.57	0.58
1:A:141:LEU:H	1:A:144:ASN:HD21	1.51	0.58
1:A:150:ASP:HB2	1:A:151:PRO:HD2	1.83	0.58
1:A:238:VAL:O	1:A:240:ARG:N	2.36	0.58
1:A:278:VAL:N	1:A:279:ARG:O	2.36	0.58
2:B:1879:PHE:CD1	2:B:1879:PHE:N	2.72	0.58
1:A:115:ASP:OD2	2:B:2135:ILE:CA	2.52	0.58
1:A:640:LEU:HA	1:A:674:SER:O	2.04	0.58
2:B:1695:THR:HA	2:B:1770:ASN:CB	2.34	0.58
2:B:1727:VAL:HG21	2:B:2090:ARG:NH2	2.18	0.57
2:B:1732:LYS:NZ	2:B:1918:PHE:CE1	2.67	0.57
2:B:2037:ILE:HG21	2:B:2040:SER:O	2.04	0.57
1:A:240:ARG:O	1:A:242:LEU:HD13	2.04	0.57
1:A:498:LEU:HD12	1:A:498:LEU:H	1.69	0.57
2:B:1727:VAL:CG2	2:B:2090:ARG:HH22	2.18	0.57
1:A:638:TYR:HD1	1:A:677:THR:HG23	1.69	0.57
2:B:2033:ARG:HG2	2:B:2049:LYS:HA	1.86	0.57
1:A:471:ARG:HD2	1:A:585:TRP:CZ3	2.39	0.57
2:B:1789:LEU:HD12	2:B:1823:MET:HG3	1.87	0.57
2:B:2019:ASN:CB	2:B:2020:LYS:N	2.67	0.57
2:B:1910:PRO:HA	2:B:1912:PHE:CE2	2.40	0.57
1:A:428:PHE:HE1	1:A:547:LEU:HB3	1.69	0.57
2:B:1789:LEU:CB	2:B:1823:MET:HG3	2.34	0.57
2:B:1829:GLU:HA	2:B:1966:ARG:HG3	1.87	0.57
2:B:1889:TRP:O	2:B:1892:THR:HG22	2.05	0.57
1:A:496:LYS:O	1:A:497:HIS:HB3	2.05	0.57
1:A:246:ILE:CG1	1:A:247:GLY:N	2.68	0.56
2:B:1883:PHE:O	2:B:1914:GLU:HB3	2.06	0.56
1:A:581:GLU:HB2	1:A:612:ASN:HB3	1.86	0.56
2:B:1937:ASP:O	2:B:1939:ARG:N	2.38	0.56
2:B:2085:LYS:HD2	2:B:2167:MET:HE3	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1712:SER:CB	2:B:2133:SER:H	2.19	0.56
1:A:393:TRP:HE3	1:A:394:ASP:H	1.52	0.56
2:B:1963:PHE:CD2	2:B:1986:VAL:CG2	2.61	0.56
1:A:448:ILE:HD11	1:A:546:GLY:HA2	1.88	0.56
1:A:663:VAL:HG12	1:A:664:TYR:N	2.21	0.56
2:B:1785:PHE:CZ	2:B:1815:TYR:HB2	2.40	0.56
1:A:393:TRP:CH2	1:A:620:TYR:HE1	2.24	0.56
1:A:538:ASN:O	1:A:542:ASP:HB2	2.05	0.56
2:B:1885:GLU:CG	2:B:1914:GLU:OE2	2.53	0.56
2:B:1959:SER:HB3	2:B:1997:ARG:NH2	2.19	0.56
2:B:2051:ALA:HA	2:B:2061:ALA:HA	1.86	0.56
2:B:1995:ILE:CG2	2:B:2085:LYS:CE	2.83	0.56
1:A:232:HIS:CE1	1:A:267:HIS:HE1	2.24	0.56
2:B:1735:PHE:CE2	2:B:1851:LEU:HB3	2.41	0.56
2:B:2250:SER:C	2:B:2252:LEU:H	2.09	0.56
2:B:2256:TYR:H	2:B:2314:VAL:HG12	1.70	0.56
2:B:2314:VAL:CG1	2:B:2315:HIS:H	2.15	0.56
1:A:232:HIS:O	1:A:232:HIS:CG	2.59	0.55
2:B:2018:SER:C	2:B:2023:THR:HG21	2.27	0.55
1:A:246:ILE:HG12	1:A:326:VAL:N	2.21	0.55
1:A:433:ASP:OD2	1:A:433:ASP:N	2.39	0.55
1:A:498:LEU:C	1:A:500:ASP:H	2.08	0.55
2:B:1712:SER:CA	2:B:2132:SER:H	2.18	0.55
2:B:1995:ILE:HG21	2:B:2085:LYS:HE2	1.89	0.55
2:B:2047:ALA:CA	2:B:2062:TRP:CD1	2.82	0.55
2:B:2266:GLN:HE22	2:B:2303:THR:HA	1.71	0.55
1:A:275:THR:HA	1:A:298:THR:HG23	1.89	0.55
1:A:299:LEU:O	1:A:300:LEU:HG	2.06	0.55
2:B:2043:TYR:O	2:B:2045:GLN:N	2.39	0.55
1:A:605:ASP:HB3	1:A:608:PHE:HB3	1.89	0.55
2:B:2264:SER:HB3	2:B:2301:LEU:HD11	1.87	0.55
1:A:317:HIS:NE2	3:C:1:NAG:O3	2.40	0.55
1:A:572:ASN:CB	1:A:637:TRP:CZ3	2.62	0.55
1:A:7:LEU:HD13	1:A:74:PRO:HG2	1.88	0.55
1:A:185:ALA:HA	1:A:188:LYS:HD2	1.87	0.55
2:B:1934:MET:HG3	2:B:1940:ILE:HG21	1.89	0.55
2:B:2045:GLN:O	2:B:2045:GLN:HG2	2.07	0.55
2:B:2097:TYR:HB2	2:B:2129:ASN:HD22	1.72	0.55
1:A:117:GLN:HG2	2:B:2085:LYS:CB	2.36	0.55
1:A:385:TYR:CE2	1:A:464:ILE:HD12	2.42	0.55
2:B:1940:ILE:HG13	2:B:1940:ILE:O	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:PHE:CD2	1:A:282:ARG:HB3	2.42	0.55
1:A:501:PHE:N	1:A:502:PRO:CD	2.66	0.55
2:B:1901:ALA:N	2:B:1902:PRO:CD	2.70	0.55
1:A:97:SER:HB3	1:A:162:VAL:HG23	1.89	0.54
1:A:155:THR:O	1:A:156:TYR:CD2	2.61	0.54
2:B:1963:PHE:N	2:B:1963:PHE:CD1	2.74	0.54
1:A:416:PRO:HB2	1:A:596:PRO:HG2	1.88	0.54
1:A:471:ARG:CG	1:A:585:TRP:CE3	2.90	0.54
2:B:1712:SER:HB3	2:B:2132:SER:C	2.26	0.54
2:B:2051:ALA:O	2:B:2163:ARG:HA	2.07	0.54
1:A:70:GLY:H	1:A:72:LEU:HD12	1.71	0.54
2:B:1966:ARG:HA	2:B:1969:GLU:O	2.08	0.54
1:A:64:PRO:O	1:A:66:PRO:HD2	2.08	0.54
1:A:292:THR:C	1:A:293:PHE:HD1	2.11	0.54
1:A:538:ASN:CG	1:A:541:ARG:HB3	2.28	0.54
2:B:2018:SER:N	2:B:2023:THR:HG23	2.19	0.54
1:A:411:TYR:HB3	1:A:421:ARG:HD3	1.89	0.54
2:B:1733:VAL:HG22	2:B:1889:TRP:CZ2	2.42	0.54
2:B:2019:ASN:CA	2:B:2019:ASN:O	2.51	0.54
1:A:110:GLU:OE2	2:B:1997:ARG:NH1	2.40	0.54
1:A:406:SER:H	1:A:409:SER:HB2	1.73	0.54
2:B:1995:ILE:CG2	2:B:2085:LYS:HE2	2.38	0.54
1:A:380:LYS:N	1:A:459:ASP:OD2	2.41	0.54
1:A:472:PRO:HB3	1:A:504:LEU:HA	1.90	0.54
1:A:94:HIS:HD2	1:A:95:PRO:HD2	1.73	0.54
2:B:1833:LYS:HD3	2:B:1834:ALA:H	1.72	0.54
2:B:1838:PHE:HE2	2:B:1843:LEU:HB3	1.73	0.54
2:B:2060:ASN:O	2:B:2061:ALA:CB	2.56	0.54
1:A:107:LYS:HE3	2:B:2137:HIS:HE1	1.72	0.53
1:A:156:TYR:HA	1:A:293:PHE:CD2	2.43	0.53
1:A:230:LYS:NZ	1:A:231:MET:H	2.06	0.53
1:A:540:GLU:C	1:A:542:ASP:H	2.10	0.53
2:B:2265:SER:HB3	2:B:2305:TYR:HB2	1.91	0.53
2:B:2304:ARG:HH11	2:B:2331:LEU:HD11	1.73	0.53
2:B:1710:GLY:H	2:B:2090:ARG:NH1	2.02	0.53
2:B:2085:LYS:CE	2:B:2167:MET:HE3	2.38	0.53
1:A:77:GLN:HG2	1:A:177:LEU:HB2	1.91	0.53
2:B:1993:ALA:HB1	2:B:2023:THR:N	2.23	0.53
1:A:686:GLY:HA3	2:B:1803:ARG:HD2	1.90	0.53
2:B:1864:ASN:HB3	2:B:1866:ALA:H	1.72	0.53
1:A:395:TYR:CE2	1:A:614:MET:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:LEU:HB2	1:A:513:TRP:HB2	1.91	0.53
1:A:117:GLN:HE22	2:B:2136:LYS:N	2.07	0.53
2:B:1932:LEU:HB3	2:B:2014:PHE:HB2	1.90	0.53
1:A:387:ALA:HA	1:A:466:LYS:O	2.08	0.53
1:A:687:LEU:HD23	2:B:1801:GLU:O	2.09	0.53
2:B:1870:GLN:C	2:B:1873:VAL:HG23	2.30	0.52
2:B:1845:LYS:HD3	2:B:1888:SER:H	1.74	0.52
2:B:1873:VAL:HG12	2:B:1875:GLU:HG3	1.91	0.52
2:B:2085:LYS:CD	2:B:2167:MET:HE3	2.39	0.52
1:A:169:ASN:ND2	1:A:262:THR:HB	2.16	0.52
1:A:176:LEU:O	1:A:176:LEU:HG	2.08	0.52
1:A:312:ILE:O	1:A:316:GLN:HB2	2.09	0.52
2:B:1782:PRO:HB3	2:B:1808:LYS:HA	1.92	0.52
2:B:2110:LYS:HE3	2:B:2277:ASN:HB2	1.92	0.52
2:B:2274:PHE:CZ	2:B:2299:PRO:HD2	2.44	0.52
1:A:412:LEU:HA	1:A:423:TYR:OH	2.09	0.52
1:A:584:SER:C	1:A:586:TYR:H	2.13	0.52
1:A:226:ARG:O	1:A:227:ALA:HB2	2.09	0.52
1:A:270:PHE:O	1:A:308:LEU:CD1	2.54	0.52
2:B:1789:LEU:HD21	2:B:1822:HIS:HD2	1.74	0.52
2:B:1909:ASP:O	2:B:1911:THR:N	2.43	0.52
2:B:2180:MET:HG3	2:B:2322:GLU:HA	1.91	0.52
2:B:2331:LEU:HB3	2:B:2332:TYR:CD2	2.45	0.52
2:B:1784:SER:O	2:B:1839:SER:HA	2.10	0.52
2:B:2274:PHE:HZ	2:B:2299:PRO:HD2	1.74	0.52
2:B:2314:VAL:CG1	2:B:2315:HIS:N	2.70	0.52
2:B:2199:MET:HG3	2:B:2200:PHE:H	1.75	0.52
1:A:115:ASP:OD2	2:B:2135:ILE:HD12	2.10	0.52
1:A:237:TYR:CE1	1:A:243:PRO:HA	2.45	0.52
2:B:2042:GLN:HA	2:B:2046:TRP:CD1	2.44	0.52
1:A:166:LYS:O	1:A:170:SER:HB2	2.10	0.52
1:A:260:MET:HG3	1:A:261:GLY:H	1.75	0.52
1:A:578:VAL:HG22	1:A:615:HIS:HA	1.92	0.52
2:B:2060:ASN:O	2:B:2061:ALA:HB3	2.09	0.52
2:B:2108:ASP:OD2	2:B:2108:ASP:N	2.43	0.52
2:B:2189:GLN:HG2	2:B:2233:ASP:O	2.10	0.52
2:B:1913:LYS:HA	2:B:1916:TYR:HB2	1.91	0.51
2:B:1995:ILE:HG22	2:B:2085:LYS:CE	2.40	0.51
2:B:2231:GLN:OE1	2:B:2271:TRP:HH2	1.93	0.51
1:A:472:PRO:O	1:A:537:VAL:HG11	2.10	0.51
1:A:117:GLN:NE2	2:B:2086:THR:H	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:401:ALA:N	1:A:402:PRO:HD3	2.24	0.51
1:A:117:GLN:O	2:B:2137:HIS:O	2.28	0.51
1:A:521:PRO:C	1:A:522:THR:HG23	2.30	0.51
1:A:147:MET:O	1:A:148:ALA:C	2.49	0.51
1:A:276:PHE:HE1	1:A:518:GLU:O	1.86	0.51
2:B:1924:TYR:C	2:B:1925:ILE:HD13	2.30	0.51
1:A:170:SER:OG	1:A:208:TRP:HB3	2.11	0.51
1:A:428:PHE:CE2	1:A:475:ILE:CG2	2.91	0.51
1:A:540:GLU:HA	1:A:543:LEU:HB3	1.92	0.51
1:A:432:THR:OG1	1:A:438:THR:HB	2.10	0.51
2:B:1695:THR:HA	2:B:1770:ASN:HB3	1.92	0.51
1:A:263:THR:HG23	1:A:265:GLU:HB2	1.93	0.51
1:A:527:ARG:NH2	1:A:562:ARG:HB3	2.25	0.51
1:A:428:PHE:HE2	1:A:475:ILE:HG22	1.75	0.51
2:B:1739:THR:HG21	2:B:1745:GLN:CG	2.41	0.51
2:B:1789:LEU:HD12	2:B:1823:MET:HB2	1.92	0.51
2:B:1929:LEU:HD22	2:B:2012:THR:HG21	1.93	0.51
1:A:671:PHE:N	1:A:674:SER:OG	2.42	0.50
1:A:197:LEU:HD13	1:A:255:TRP:HB3	1.93	0.50
2:B:1759:LEU:C	2:B:1759:LEU:HD13	2.32	0.50
2:B:1793:GLU:HG3	2:B:1794:GLU:HG3	1.93	0.50
1:A:316:GLN:O	1:A:319:GLY:N	2.44	0.50
2:B:2037:ILE:CG1	2:B:2040:SER:O	2.54	0.50
2:B:2284:GLN:OE1	2:B:2284:GLN:HA	2.12	0.50
1:A:10:VAL:CG1	1:A:52:VAL:HG13	2.41	0.50
1:A:246:ILE:CD1	1:A:326:VAL:N	2.74	0.50
1:A:467:ASN:HD21	1:A:472:PRO:HA	1.75	0.50
1:A:46:TYR:H	1:A:47:LYS:NZ	2.08	0.50
2:B:2017:TYR:O	2:B:2018:SER:CA	2.60	0.50
2:B:2026:GLY:O	2:B:2031:HIS:NE2	2.45	0.50
2:B:2262:ILE:HG13	2:B:2283:PHE:CE1	2.47	0.50
1:A:80:VAL:CG2	1:A:181:GLU:HG3	2.41	0.50
2:B:1734:VAL:HA	2:B:1850:GLY:O	2.12	0.50
2:B:1940:ILE:HD11	2:B:1942:TRP:CE2	2.47	0.50
1:A:127:LYS:HG2	1:A:162:VAL:HG22	1.94	0.50
1:A:578:VAL:H	1:A:644:ALA:HB2	1.75	0.50
2:B:2101:PHE:O	2:B:2126:PHE:HB2	2.12	0.50
1:A:504:LEU:HB3	1:A:505:PRO:HD2	1.94	0.49
2:B:1789:LEU:CD2	2:B:1822:HIS:HD2	2.25	0.49
1:A:3:ARG:HH22	1:A:79:GLU:HG2	1.77	0.49
1:A:652:PHE:O	1:A:653:PHE:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:663:VAL:HG13	2:B:1829:GLU:OE1	2.12	0.49
2:B:1993:ALA:CB	2:B:2023:THR:CA	2.75	0.49
1:A:690:LEU:HD12	1:A:704:ALA:HB3	1.95	0.49
2:B:1706:LEU:HB3	2:B:1730:PHE:O	2.12	0.49
2:B:2050:LEU:HB2	2:B:2055:TYR:CE2	2.47	0.49
1:A:471:ARG:HD3	1:A:472:PRO:HD2	1.95	0.49
1:A:249:HIS:CD2	1:A:250:ARG:HG2	2.46	0.49
1:A:289:SER:CB	1:A:290:PRO:HD2	2.27	0.49
1:A:115:ASP:CG	2:B:2135:ILE:HD12	2.33	0.49
1:A:459:ASP:O	1:A:515:VAL:HG23	2.12	0.49
2:B:1725:GLY:HA3	2:B:2093:PHE:HD2	1.77	0.49
2:B:1785:PHE:HZ	2:B:1815:TYR:HB2	1.77	0.49
2:B:2263:SER:HA	2:B:2273:LEU:HA	1.94	0.49
1:A:186:LYS:O	1:A:190:GLN:CB	2.57	0.49
1:A:604:GLU:HA	1:A:609:GLN:NE2	2.28	0.49
1:A:645:GLN:C	1:A:647:ASP:H	2.16	0.49
2:B:1706:LEU:O	2:B:1758:LEU:HD21	2.12	0.49
2:B:1871:VAL:N	2:B:1873:VAL:HG23	2.28	0.49
2:B:1929:LEU:N	2:B:2012:THR:HG23	2.23	0.49
1:A:537:VAL:HG12	1:A:542:ASP:OD2	2.12	0.49
2:B:2104:MET:HG2	2:B:2114:THR:HA	1.95	0.49
1:A:323:TYR:C	1:A:324:VAL:HG22	2.32	0.49
1:A:671:PHE:CB	1:A:672:PRO:HD3	2.35	0.49
2:B:1958:PHE:CD1	2:B:1998:VAL:CG1	2.96	0.49
2:B:2107:LEU:HD12	2:B:2108:ASP:OD2	2.12	0.49
1:A:234:VAL:O	1:A:237:TYR:N	2.33	0.49
1:A:540:GLU:OE1	1:A:540:GLU:N	2.43	0.49
2:B:1897:ARG:O	2:B:1898:ASN:HB2	2.12	0.49
2:B:1921:ILE:O	2:B:1922:ASN:CB	2.56	0.49
2:B:2265:SER:HB2	2:B:2271:TRP:CE3	2.47	0.49
2:B:1957:HIS:HB3	2:B:1975:LEU:CB	2.43	0.48
1:A:202:PHE:H	1:A:202:PHE:HD1	1.57	0.48
2:B:1727:VAL:HG21	2:B:2090:ARG:HH22	1.75	0.48
2:B:2089:ALA:O	2:B:2132:SER:CB	2.59	0.48
1:A:669:THR:HG21	2:B:1979:TYR:HB3	1.95	0.48
2:B:1876:PHE:HD2	2:B:1940:ILE:HD13	1.78	0.48
2:B:1890:TYR:O	2:B:1893:GLU:HB2	2.13	0.48
2:B:1958:PHE:CD1	2:B:1998:VAL:HG12	2.47	0.48
1:A:534:SER:HB3	1:A:536:PHE:CE2	2.48	0.48
2:B:2075:LEU:HD22	2:B:2079:MET:HG3	1.95	0.48
1:A:194:LYS:HA	1:A:254:TYR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:ALA:HB2	1:A:531:ARG:NH2	2.29	0.48
1:A:443:GLN:O	1:A:445:GLU:N	2.46	0.48
2:B:1753:ASN:HA	2:B:1755:HIS:CE1	2.48	0.48
2:B:2052:ARG:HD2	2:B:2052:ARG:N	2.29	0.48
1:A:234:VAL:C	1:A:236:GLY:N	2.66	0.48
1:A:285:SER:O	1:A:285:SER:OG	2.27	0.48
1:A:289:SER:HB3	2:B:1979:TYR:OH	2.14	0.48
2:B:1711:MET:C	2:B:2132:SER:C	2.72	0.48
2:B:1725:GLY:C	2:B:2093:PHE:CD2	2.86	0.48
2:B:2260:PHE:O	2:B:2283:PHE:HB2	2.14	0.48
1:A:10:VAL:HG22	1:A:11:GLU:H	1.79	0.48
1:A:64:PRO:C	1:A:66:PRO:HD2	2.34	0.48
1:A:424:LYS:HE2	1:A:593:ARG:HD3	1.96	0.48
2:B:1710:GLY:CA	2:B:2090:ARG:CD	2.80	0.48
2:B:1739:THR:CB	2:B:1745:GLN:HB2	2.37	0.48
2:B:1732:LYS:HB3	2:B:1849:SER:O	2.14	0.48
1:A:651:VAL:CG2	1:A:668:LEU:HB3	2.43	0.48
1:A:666:ASP:OD2	1:A:666:ASP:C	2.51	0.48
2:B:1695:THR:HA	2:B:1770:ASN:HB2	1.95	0.48
2:B:1781:ARG:HD2	2:B:1783:TYR:HE1	1.79	0.48
1:A:186:LYS:HA	1:A:189:THR:HG22	1.96	0.47
2:B:2087:GLN:HB3	2:B:2163:ARG:HG2	1.96	0.47
1:A:233:THR:HG21	1:A:319:GLY:O	2.15	0.47
1:A:238:VAL:HG12	1:A:239:ASN:N	2.29	0.47
1:A:272:GLU:N	1:A:272:GLU:CD	2.68	0.47
1:A:654:SER:HB3	1:A:688:TRP:HB3	1.95	0.47
2:B:1837:TYR:CE1	2:B:1853:GLY:HA3	2.49	0.47
2:B:2311:GLN:HA	2:B:2311:GLN:NE2	2.29	0.47
1:A:316:GLN:O	1:A:317:HIS:C	2.52	0.47
2:B:1935:ALA:O	2:B:1937:ASP:N	2.47	0.47
2:B:2017:TYR:CD1	2:B:2018:SER:N	2.81	0.47
1:A:660:HIS:HB2	1:A:678:VAL:HG12	1.95	0.47
1:A:8:GLY:HA2	1:A:88:LEU:HA	1.96	0.47
2:B:1712:SER:OG	2:B:2133:SER:CB	2.58	0.47
2:B:1936:GLN:OE1	2:B:2019:ASN:ND2	2.48	0.47
1:A:248:CYS:SG	1:A:330:PRO:HD2	2.55	0.47
1:A:293:PHE:N	1:A:293:PHE:HD1	2.12	0.47
1:A:598:PRO:HB2	1:A:601:VAL:HG13	1.97	0.47
1:A:604:GLU:HA	1:A:609:GLN:HE21	1.78	0.47
2:B:1945:LEU:HD22	2:B:1983:PHE:HB3	1.97	0.47
2:B:2263:SER:OG	2:B:2307:ARG:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:119:SER:HB2	2:B:2139:ILE:CG1	2.34	0.47
2:B:1789:LEU:HD12	2:B:1823:MET:CG	2.45	0.47
2:B:1870:GLN:HA	2:B:1873:VAL:HB	1.97	0.47
2:B:1944:LEU:HD22	2:B:1956:ILE:HD13	1.97	0.47
2:B:1969:GLU:HB3	2:B:1970:GLU:H	1.54	0.47
1:A:393:TRP:HE3	1:A:394:ASP:N	2.13	0.47
1:A:477:PRO:HG3	1:A:513:TRP:CD2	2.49	0.47
1:A:520:GLY:HA2	1:A:529:LEU:HD11	1.95	0.47
2:B:1797:ARG:HA	2:B:1797:ARG:NH1	2.30	0.47
2:B:2087:GLN:OE1	2:B:2163:ARG:NE	2.45	0.47
1:A:71:LEU:HD11	1:A:236:GLY:HA3	1.96	0.47
1:A:115:ASP:OD1	2:B:2135:ILE:HD12	2.15	0.47
1:A:117:GLN:OE1	2:B:2135:ILE:C	2.53	0.47
1:A:156:TYR:HA	1:A:293:PHE:HE2	1.78	0.47
2:B:2149:ILE:HD12	2:B:2149:ILE:H	1.80	0.47
1:A:113:GLU:O	1:A:114:TYR:HB3	2.14	0.46
1:A:397:PRO:HD2	1:A:624:SER:OG	2.14	0.46
1:A:425:LYS:HE3	1:A:545:SER:C	2.36	0.46
2:B:1711:MET:O	2:B:2132:SER:HB2	2.13	0.46
2:B:1742:SER:O	2:B:1743:PHE:C	2.53	0.46
2:B:1957:HIS:HB2	2:B:1974:ALA:O	2.15	0.46
1:A:512:LYS:HE3	1:A:514:THR:OG1	2.16	0.46
2:B:2015:LEU:HD21	2:B:2165:GLU:OE1	2.16	0.46
2:B:2017:TYR:N	2:B:2024:PRO:HB2	2.31	0.46
2:B:2085:LYS:HE3	2:B:2167:MET:HE3	1.97	0.46
1:A:117:GLN:CB	2:B:2085:LYS:HG3	2.45	0.46
1:A:202:PHE:CD1	1:A:202:PHE:N	2.79	0.46
1:A:679:PHE:CD2	1:A:680:MET:N	2.83	0.46
2:B:2013:LEU:HD23	2:B:2054:HIS:CD2	2.35	0.46
1:A:238:VAL:O	1:A:241:SER:N	2.44	0.46
1:A:393:TRP:CE3	1:A:394:ASP:N	2.83	0.46
1:A:453:LEU:CD2	1:A:513:TRP:HZ3	2.28	0.46
2:B:2071:ILE:O	2:B:2150:ARG:HA	2.16	0.46
1:A:198:LEU:CD2	1:A:200:ALA:HB2	2.45	0.46
2:B:1913:LYS:HE2	2:B:1913:LYS:HB3	1.81	0.46
2:B:1956:ILE:H	2:B:1956:ILE:HG13	1.63	0.46
2:B:2190:ILE:HG23	2:B:2231:GLN:O	2.16	0.46
1:A:690:LEU:HD22	1:A:691:GLY:N	2.31	0.46
1:A:698:ARG:NH1	2:B:1843:LEU:HD11	2.31	0.46
2:B:1789:LEU:HB2	2:B:1823:MET:CE	2.45	0.46
2:B:2020:LYS:CA	2:B:2020:LYS:H	2.06	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:GLN:HE22	2:B:2136:LYS:CA	2.29	0.46
1:A:275:THR:HA	1:A:298:THR:HG22	1.96	0.46
2:B:2085:LYS:HE3	2:B:2167:MET:CE	2.46	0.46
2:B:2141:ASN:CB	2:B:2142:PRO:HD3	2.44	0.46
1:A:102:GLY:HA2	2:B:1974:ALA:HB2	1.97	0.46
1:A:282:ARG:CZ	1:A:522:THR:HB	2.46	0.46
2:B:1706:LEU:HD22	2:B:1732:LYS:N	2.14	0.46
2:B:2132:SER:CB	2:B:2132:SER:HA	2.24	0.46
2:B:2085:LYS:CE	2:B:2167:MET:CE	2.94	0.45
1:A:157:SER:HB2	1:A:173:ILE:HD11	1.98	0.45
1:A:275:THR:HG21	1:A:286:LEU:CD2	2.46	0.45
2:B:2218:ALA:HB2	2:B:2248:VAL:HG12	1.97	0.45
1:A:624:SER:O	1:A:625:LEU:O	2.34	0.45
2:B:2154:THR:O	2:B:2155:HIS:HB2	2.15	0.45
2:B:2256:TYR:CE1	2:B:2287:GLN:HA	2.51	0.45
2:B:1938:GLN:HG2	4:D:1:NAG:H61	1.98	0.45
1:A:624:SER:O	1:A:625:LEU:C	2.54	0.45
1:A:666:ASP:HB3	2:B:1835:TRP:CZ3	2.50	0.45
2:B:2117:GLY:O	2:B:2118:ASN:C	2.55	0.45
1:A:65:ARG:O	1:A:66:PRO:C	2.54	0.45
1:A:115:ASP:C	1:A:117:GLN:H	2.20	0.45
2:B:1707:TRP:CD1	2:B:1918:PHE:CE1	3.04	0.45
2:B:1884:ASP:HA	2:B:1914:GLU:CB	2.47	0.45
2:B:2236:LYS:O	2:B:2304:ARG:HG3	2.16	0.45
2:B:2237:THR:HB	2:B:2331:LEU:H	1.80	0.45
1:A:115:ASP:HB2	2:B:2135:ILE:O	2.16	0.45
1:A:238:VAL:N	1:A:241:SER:HB2	2.31	0.45
2:B:1829:GLU:HB3	2:B:1830:PHE:H	1.65	0.45
2:B:1883:PHE:HB2	2:B:1918:PHE:HB3	1.98	0.45
1:A:163:ASP:OD1	1:A:166:LYS:HB2	2.17	0.45
1:A:409:SER:O	1:A:418:ARG:HG2	2.17	0.45
1:A:412:LEU:HD22	1:A:421:ARG:HA	1.99	0.45
2:B:1984:GLU:OE1	2:B:1984:GLU:CA	2.61	0.45
2:B:2231:GLN:OE1	2:B:2271:TRP:CH2	2.69	0.45
2:B:1712:SER:HA	2:B:2132:SER:H	1.82	0.45
2:B:1772:MET:HA	2:B:1816:PHE:HB2	1.98	0.45
2:B:1826:THR:H	2:B:1829:GLU:HB2	1.82	0.45
1:A:294:LEU:HD22	2:B:1973:MET:CE	2.47	0.45
1:A:395:TYR:HE2	1:A:614:MET:HG3	1.81	0.45
1:A:570:LYS:HD2	1:A:571:ARG:HH21	1.82	0.45
1:A:598:PRO:CB	1:A:601:VAL:HG13	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1820:GLN:HG3	2:B:1821:HIS:N	2.32	0.45
2:B:1823:MET:O	2:B:1857:VAL:HG11	2.17	0.45
1:A:54:PHE:HD1	1:A:54:PHE:N	2.12	0.44
1:A:234:VAL:H	1:A:320:MET:HG2	1.82	0.44
1:A:249:HIS:O	1:A:300:LEU:HB2	2.16	0.44
1:A:279:ARG:C	1:A:281:HIS:N	2.67	0.44
1:A:411:TYR:C	1:A:421:ARG:HD3	2.36	0.44
2:B:1783:TYR:O	2:B:1807:VAL:HB	2.17	0.44
1:A:87:THR:CG2	1:A:135:THR:HG23	2.42	0.44
2:B:1833:LYS:HD3	2:B:1834:ALA:N	2.31	0.44
2:B:2081:ILE:HG13	2:B:2144:ILE:HB	1.99	0.44
2:B:2218:ALA:CB	2:B:2248:VAL:HG12	2.45	0.44
1:A:200:ALA:HA	1:A:260:MET:HB3	1.98	0.44
1:A:137:VAL:O	1:A:137:VAL:HG23	2.18	0.44
1:A:491:LEU:O	1:A:492:PRO:C	2.55	0.44
1:A:697:PHE:C	1:A:699:ASN:H	2.21	0.44
2:B:1893:GLU:O	2:B:1897:ARG:NH1	2.50	0.44
2:B:1995:ILE:CB	2:B:2085:LYS:NZ	2.76	0.44
2:B:2018:SER:N	2:B:2018:SER:OG	2.47	0.44
1:A:90:ASN:O	1:A:131:GLY:HA2	2.17	0.44
1:A:115:ASP:OD2	2:B:2135:ILE:CD1	2.65	0.44
1:A:249:HIS:HB2	1:A:326:VAL:HG12	1.98	0.44
1:A:402:PRO:HG2	1:A:419:ILE:HA	1.99	0.44
2:B:1703:VAL:HG12	2:B:1704:GLU:H	1.83	0.44
2:B:1940:ILE:HD11	2:B:1942:TRP:CD2	2.52	0.44
2:B:1947:MET:HB3	2:B:1948:GLY:H	1.59	0.44
2:B:2041:GLY:HA2	2:B:2064:THR:OG1	2.18	0.44
1:A:412:LEU:HD12	1:A:423:TYR:CE1	2.53	0.44
2:B:2226:PRO:C	2:B:2228:GLU:H	2.21	0.44
1:A:305:GLN:HB2	1:A:323:TYR:HB3	2.00	0.44
1:A:578:VAL:HB	1:A:644:ALA:HA	1.99	0.44
2:B:1755:HIS:HB3	2:B:1931:GLY:O	2.18	0.44
2:B:1834:ALA:CB	2:B:1943:TYR:HD2	2.27	0.44
2:B:2064:THR:HG22	2:B:2066:GLU:HB2	1.99	0.44
2:B:1922:ASN:HB3	2:B:1925:ILE:HD11	1.99	0.44
1:A:467:ASN:ND2	1:A:472:PRO:HA	2.32	0.43
2:B:1880:LEU:HD23	2:B:1880:LEU:N	2.33	0.43
2:B:2019:ASN:HB2	2:B:2020:LYS:N	2.32	0.43
2:B:2087:GLN:HG2	2:B:2088:GLY:H	1.83	0.43
1:A:50:LEU:HD23	1:A:51:PHE:H	1.83	0.43
1:A:324:VAL:O	1:A:326:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1706:LEU:HG	2:B:1707:TRP:N	2.31	0.43
2:B:2255:MET:HB3	2:B:2318:ALA:CB	2.48	0.43
2:B:2291:THR:HA	2:B:2292:PRO:HD3	1.84	0.43
1:A:3:ARG:O	1:A:84:VAL:HA	2.19	0.43
1:A:65:ARG:O	1:A:69:MET:HB2	2.18	0.43
1:A:640:LEU:HD12	1:A:640:LEU:N	2.33	0.43
2:B:1790:ILE:HG12	2:B:1792:TYR:CE2	2.53	0.43
2:B:1921:ILE:HD11	2:B:2010:MET:HG3	2.01	0.43
2:B:1946:SER:HB2	2:B:1978:LEU:HD13	2.00	0.43
1:A:449:LEU:HD11	1:A:575:LEU:HB3	1.99	0.43
1:A:652:PHE:HB3	1:A:691:GLY:H	1.84	0.43
2:B:2311:GLN:HA	2:B:2311:GLN:HE21	1.82	0.43
2:B:1737:GLU:OE2	2:B:1761:PRO:HB2	2.19	0.43
2:B:1872:THR:HA	4:D:1:NAG:C6	2.48	0.43
2:B:1897:ARG:NH1	2:B:1897:ARG:HB3	2.34	0.43
1:A:115:ASP:HA	1:A:123:LYS:NZ	2.34	0.43
1:A:411:TYR:O	1:A:421:ARG:NH1	2.45	0.43
1:A:666:ASP:OD1	2:B:1788:SER:OG	2.36	0.43
1:A:680:MET:HE3	1:A:680:MET:HB2	1.90	0.43
2:B:1727:VAL:CG2	2:B:2090:ARG:NH2	2.79	0.43
2:B:1870:GLN:O	2:B:1872:THR:N	2.52	0.43
2:B:1961:HIS:ND1	2:B:2014:PHE:HZ	2.17	0.43
1:A:289:SER:O	1:A:290:PRO:C	2.57	0.43
2:B:1869:ARG:O	2:B:1870:GLN:HB3	2.18	0.43
2:B:2205:PRO:C	2:B:2207:LYS:H	2.20	0.43
1:A:65:ARG:H	1:A:65:ARG:HG3	1.40	0.43
1:A:393:TRP:CE3	1:A:393:TRP:CA	2.98	0.43
2:B:1921:ILE:O	2:B:1921:ILE:CG2	2.64	0.43
2:B:1929:LEU:CD2	2:B:2012:THR:CG2	2.97	0.43
2:B:1936:GLN:HB3	2:B:2023:THR:OG1	2.18	0.43
1:A:67:PRO:HG2	1:A:68:TRP:CD1	2.53	0.43
1:A:80:VAL:HG13	1:A:180:ARG:HA	1.99	0.43
1:A:232:HIS:HE1	1:A:267:HIS:HE1	1.66	0.43
1:A:309:PHE:HB3	1:A:311:HIS:HB2	2.00	0.43
1:A:509:PHE:HD1	1:A:510:LYS:N	2.16	0.43
2:B:1756:LEU:C	2:B:1922:ASN:HD21	2.22	0.43
2:B:1957:HIS:HB3	2:B:1975:LEU:HB2	2.01	0.43
2:B:1964:THR:HB	2:B:1972:LYS:HD2	2.00	0.43
2:B:2019:ASN:CG	2:B:2020:LYS:N	2.72	0.43
2:B:2262:ILE:HG13	2:B:2283:PHE:HE1	1.83	0.43
1:A:116:ASP:HB2	2:B:1995:ILE:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:HIS:CD2	1:A:95:PRO:HD2	2.52	0.42
1:A:165:VAL:HG13	1:A:262:THR:OG1	2.19	0.42
2:B:1807:VAL:HG22	2:B:1813:LYS:HB2	2.01	0.42
2:B:2020:LYS:N	2:B:2020:LYS:CB	2.73	0.42
2:B:2110:LYS:CE	2:B:2277:ASN:HB2	2.49	0.42
1:A:46:TYR:H	1:A:47:LYS:HZ2	1.67	0.42
2:B:1994:GLY:N	2:B:2024:PRO:HD3	2.29	0.42
2:B:2096:LEU:HA	2:B:2157:SER:CB	2.49	0.42
1:A:97:SER:OG	1:A:161:HIS:N	2.51	0.42
1:A:476:TYR:OH	1:A:483:VAL:HG13	2.18	0.42
1:A:480:ILE:HG22	1:A:481:THR:N	2.35	0.42
1:A:246:ILE:HG12	1:A:325:LYS:C	2.39	0.42
1:A:495:VAL:HG11	1:A:501:PHE:HB2	2.01	0.42
1:A:605:ASP:O	1:A:609:GLN:HG2	2.19	0.42
1:A:711:CYS:HB3	1:A:712:ASP:H	1.52	0.42
2:B:1706:LEU:HD13	2:B:1732:LYS:CB	2.43	0.42
2:B:1880:LEU:HD22	2:B:1921:ILE:HG12	2.02	0.42
2:B:2037:ILE:CG1	2:B:2038:THR:N	2.67	0.42
1:A:117:GLN:O	2:B:2137:HIS:N	2.50	0.42
2:B:1727:VAL:HG11	2:B:2090:ARG:HH12	1.85	0.42
2:B:2040:SER:O	2:B:2040:SER:OG	2.38	0.42
1:A:428:PHE:CE2	1:A:475:ILE:HG23	2.54	0.42
1:A:80:VAL:HG23	1:A:181:GLU:HG3	2.02	0.42
1:A:85:VAL:O	1:A:85:VAL:CG1	2.67	0.42
1:A:578:VAL:HG23	1:A:644:ALA:HB2	2.02	0.42
2:B:1707:TRP:HZ3	2:B:1709:TYR:HB2	1.83	0.42
2:B:1957:HIS:HB3	2:B:1975:LEU:HB3	2.01	0.42
1:A:269:ILE:C	1:A:270:PHE:CD2	2.93	0.42
1:A:300:LEU:HB3	1:A:326:VAL:CG1	2.50	0.42
1:A:626:GLN:HB2	1:A:705:LEU:C	2.40	0.42
1:A:270:PHE:CD2	1:A:270:PHE:N	2.87	0.42
1:A:417:GLN:HB2	1:A:596:PRO:HD3	2.02	0.42
1:A:521:PRO:C	1:A:522:THR:CG2	2.87	0.42
2:B:1698:TYR:CD1	2:B:1763:ILE:HG23	2.55	0.42
2:B:2019:ASN:HB2	2:B:2020:LYS:H	1.85	0.42
2:B:2033:ARG:NE	2:B:2049:LYS:HG2	2.35	0.42
2:B:2209:ARG:HB2	2:B:2212:LEU:HD13	2.02	0.42
1:A:119:SER:OG	2:B:2139:ILE:HD13	2.07	0.42
1:A:260:MET:HG3	1:A:261:GLY:N	2.35	0.42
1:A:525:ASP:CB	1:A:526:PRO:CD	2.84	0.42
2:B:2043:TYR:HB2	2:B:2063:SER:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2081:ILE:O	2:B:2140:PHE:HD2	2.03	0.42
2:B:2084:ILE:O	2:B:2084:ILE:HG23	2.20	0.42
2:B:2087:GLN:HG2	2:B:2088:GLY:N	2.35	0.42
1:A:155:THR:HB	1:A:293:PHE:HB2	2.02	0.41
1:A:282:ARG:CD	1:A:522:THR:HG21	2.49	0.41
1:A:585:TRP:C	1:A:586:TYR:CD1	2.93	0.41
2:B:2001:LEU:HD12	2:B:2001:LEU:HA	1.81	0.41
2:B:2256:TYR:CE1	2:B:2314:VAL:HB	2.55	0.41
1:A:275:THR:O	1:A:275:THR:CG2	2.67	0.41
1:A:291:ILE:O	2:B:1977:ASN:ND2	2.53	0.41
2:B:1709:TYR:O	2:B:1710:GLY:C	2.59	0.41
2:B:2176:MET:HA	2:B:2177:PRO:HD2	1.80	0.41
1:A:198:LEU:HD22	1:A:200:ALA:HB2	2.01	0.41
1:A:275:THR:H	1:A:298:THR:HG22	1.85	0.41
1:A:382:TRP:HB2	1:A:461:LEU:HD12	2.01	0.41
1:A:688:TRP:HB2	1:A:706:LEU:HG	2.02	0.41
2:B:1789:LEU:H	2:B:1823:MET:HE2	1.85	0.41
2:B:1993:ALA:HB1	2:B:2023:THR:CB	2.48	0.41
1:A:56:ASP:HB2	1:A:58:LEU:O	2.21	0.41
1:A:159:LEU:CD1	1:A:160:SER:H	2.28	0.41
1:A:251:LYS:HB2	1:A:252:SER:H	1.71	0.41
2:B:1777:ASN:ND2	2:B:1782:PRO:HA	2.35	0.41
2:B:2052:ARG:HD2	2:B:2052:ARG:H	1.85	0.41
1:A:486:LEU:HD22	1:A:512:LYS:HB2	2.03	0.41
2:B:1707:TRP:CD1	2:B:1918:PHE:HE1	2.38	0.41
2:B:1774:THR:HG23	2:B:1814:THR:HB	2.03	0.41
2:B:1789:LEU:HD21	2:B:1822:HIS:CD2	2.54	0.41
2:B:1995:ILE:HG21	2:B:2085:LYS:CE	2.47	0.41
1:A:65:ARG:N	1:A:66:PRO:CD	2.83	0.41
1:A:615:HIS:O	1:A:621:VAL:HG23	2.20	0.41
2:B:1930:PRO:HB3	2:B:2056:SER:HB2	2.02	0.41
2:B:1967:LYS:HB3	2:B:1968:LYS:H	1.63	0.41
2:B:2032:ILE:O	2:B:2033:ARG:HG3	2.20	0.41
2:B:2061:ALA:HB1	2:B:2162:LEU:O	2.20	0.41
1:A:127:LYS:HE2	1:A:162:VAL:HG13	2.03	0.41
1:A:308:LEU:HB2	1:A:322:ALA:O	2.21	0.41
1:A:412:LEU:HB2	1:A:421:ARG:CB	2.50	0.41
1:A:453:LEU:HD23	1:A:513:TRP:HZ3	1.84	0.41
1:A:471:ARG:HG3	1:A:585:TRP:CZ3	2.54	0.41
2:B:2237:THR:O	2:B:2327:GLU:HB2	2.20	0.41
1:A:303:LEU:O	1:A:304:GLY:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1699:PHE:CD1	2:B:1699:PHE:N	2.88	0.41
2:B:1912:PHE:O	2:B:1916:TYR:N	2.53	0.41
2:B:2293:VAL:O	2:B:2295:ASN:N	2.53	0.41
1:A:460:THR:HG23	1:A:514:THR:HG23	2.02	0.41
1:A:476:TYR:CZ	1:A:483:VAL:HG11	2.56	0.41
1:A:477:PRO:HD3	1:A:513:TRP:CZ2	2.56	0.41
1:A:632:HIS:N	1:A:682:MET:O	2.53	0.41
2:B:1739:THR:HG21	2:B:1745:GLN:HG3	2.01	0.41
2:B:1945:LEU:HD13	2:B:1983:PHE:HB3	2.02	0.41
2:B:2017:TYR:CE1	2:B:2029:SER:O	2.74	0.41
2:B:2027:MET:O	2:B:2052:ARG:HG2	2.20	0.41
2:B:2042:GLN:O	2:B:2043:TYR:HB2	2.20	0.41
2:B:2085:LYS:HA	2:B:2137:HIS:HA	2.02	0.41
2:B:2331:LEU:HB3	2:B:2332:TYR:CE2	2.55	0.41
1:A:67:PRO:HB2	1:A:68:TRP:H	1.49	0.41
2:B:1747:LEU:O	2:B:1748:TYR:C	2.59	0.41
1:A:115:ASP:HA	1:A:123:LYS:HZ1	1.86	0.40
1:A:305:GLN:HA	1:A:324:VAL:O	2.21	0.40
1:A:446:SER:O	1:A:449:LEU:HB2	2.21	0.40
1:A:524:SER:O	1:A:525:ASP:O	2.39	0.40
2:B:2081:ILE:HG13	2:B:2081:ILE:O	2.22	0.40
1:A:156:TYR:O	1:A:176:LEU:O	2.39	0.40
1:A:393:TRP:CH2	1:A:620:TYR:CE1	3.06	0.40
2:B:1897:ARG:HG2	2:B:1898:ASN:N	2.36	0.40
2:B:1946:SER:H	2:B:1978:LEU:HD22	1.85	0.40
2:B:2210:LEU:CD1	2:B:2244:THR:HG22	2.47	0.40
1:A:117:GLN:HA	2:B:2137:HIS:H	1.47	0.40
1:A:449:LEU:HD22	1:A:550:PRO:HD3	2.02	0.40
2:B:1907:MET:HG2	2:B:1908:GLU:H	1.86	0.40
2:B:1925:ILE:HD13	2:B:1925:ILE:N	2.35	0.40
1:A:168:LEU:O	1:A:171:GLY:N	2.54	0.40
1:A:307:LEU:H	1:A:307:LEU:HG	1.62	0.40
2:B:2048:PRO:HD3	2:B:2062:TRP:CG	2.55	0.40
2:B:2100:GLN:HB3	2:B:2154:THR:HB	2.02	0.40
1:A:300:LEU:HB3	1:A:326:VAL:HG11	2.04	0.40
1:A:426:VAL:HG11	1:A:473:TYR:OH	2.22	0.40
2:B:1853:GLY:HA2	2:B:1854:PRO:HD3	1.87	0.40
2:B:1882:ILE:HG22	2:B:1918:PHE:O	2.21	0.40
2:B:1929:LEU:HD23	2:B:2012:THR:HG22	2.02	0.40
2:B:2019:ASN:CB	2:B:2019:ASN:ND2	2.73	0.40
2:B:2048:PRO:HD3	2:B:2062:TRP:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2246:GLN:OE1	2:B:2320:ARG:HB2	2.21	0.40
2:B:2309:HIS:HA	2:B:2310:PRO:HD2	1.89	0.40

All (3311) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:437:LYS:O	4:D:4:BMA:C5[1_565]	0.18	2.02
1:A:579:PHE:N	2:B:2146:ALA:C[1_565]	0.19	2.01
1:A:572:ASN:ND2	2:B:2243:VAL:O[1_565]	0.22	1.98
1:A:604:GLU:CB	2:B:2126:PHE:N[1_565]	0.25	1.95
1:A:630:CYS:C	2:B:2257:VAL:CG1[1_565]	0.28	1.92
1:A:708:VAL:CG2	2:B:2259:GLU:CB[1_565]	0.29	1.91
1:A:666:ASP:CA	2:B:2275:PHE:CZ[1_565]	0.31	1.89
1:A:554:CYS:SG	2:B:2238:MET:CG[1_565]	0.33	1.87
1:A:428:PHE:CG	2:B:2172:ASN:OD1[1_565]	0.35	1.85
1:A:547:LEU:CA	2:B:2170:ASP:O[1_565]	0.35	1.85
1:A:636:TYR:CD2	2:B:2306:LEU:CA[1_565]	0.35	1.85
1:A:658:PHE:N	2:B:2273:LEU:CG[1_565]	0.35	1.85
1:A:563:GLY:O	2:B:2189:GLN:C[1_565]	0.36	1.84
1:A:456:GLU:CA	2:B:2236:LYS:CE[1_565]	0.37	1.83
1:A:576:PHE:CG	2:B:2298:ASP:CG[1_565]	0.38	1.82
1:A:527:ARG:CA	2:B:2304:ARG:CB[1_565]	0.39	1.81
1:A:573:VAL:CG1	2:B:2241:THR:CA[1_565]	0.39	1.81
1:A:564:ASN:CA	2:B:2189:GLN:N[1_565]	0.41	1.79
1:A:630:CYS:CB	2:B:2257:VAL:CA[1_565]	0.41	1.79
1:A:710:SER:OG	2:B:2313:TRP:CD1[1_565]	0.41	1.79
1:A:409:SER:N	2:B:2037:ILE:C[1_565]	0.44	1.76
1:A:590:ASN:O	2:B:2165:GLU:N[1_565]	0.45	1.75
1:A:590:ASN:CB	2:B:2165:GLU:C[1_565]	0.45	1.75
1:A:597:ASN:CG	2:B:2089:ALA:CA[1_565]	0.45	1.75
1:A:555:TYR:CA	2:B:2236:LYS:CA[1_565]	0.46	1.74
1:A:608:PHE:CE1	2:B:2151:LEU:CD1[1_565]	0.46	1.74
1:A:692:CYS:CA	2:B:2277:ASN:CG[1_565]	0.46	1.74
2:B:1820:GLN:CA	2:B:2227:LYS:NZ[1_565]	0.46	1.74
1:A:521:PRO:CB	2:B:2237:THR:OG1[1_565]	0.47	1.73
1:A:616:SER:CA	2:B:2147:ARG:CD[1_565]	0.47	1.73
1:A:638:TYR:CG	2:B:2240:VAL:CB[1_565]	0.47	1.73
1:A:658:PHE:CD2	2:B:2273:LEU:O[1_565]	0.47	1.73
2:B:1820:GLN:CG	2:B:2227:LYS:CD[1_565]	0.47	1.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:521:PRO:C	2:B:2331:LEU:CA[1_565]	0.48	1.72
1:A:572:ASN:CB	2:B:2243:VAL:N[1_565]	0.48	1.72
1:A:589:GLU:CB	2:B:2085:LYS:CE[1_565]	0.48	1.72
1:A:683:GLU:CG	2:B:2226:PRO:O[1_565]	0.48	1.72
1:A:617:ILE:N	2:B:2147:ARG:NH1[1_565]	0.49	1.71
1:A:393:TRP:O	2:B:2031:HIS:CE1[1_565]	0.50	1.70
1:A:402:PRO:O	2:B:2046:TRP:CZ3[1_565]	0.50	1.70
1:A:424:LYS:C	2:B:2025:LEU:N[1_565]	0.50	1.70
1:A:407:TYR:N	2:B:2038:THR:CG2[1_565]	0.51	1.69
1:A:549:GLY:C	2:B:2173:SER:CA[1_565]	0.51	1.69
1:A:572:ASN:CA	2:B:2242:GLY:C[1_565]	0.51	1.69
1:A:636:TYR:CB	2:B:2306:LEU:CG[1_565]	0.51	1.69
1:A:640:LEU:CG	2:B:2300:PRO:CG[1_565]	0.51	1.69
1:A:395:TYR:CB	2:B:2074:ASP:O[1_565]	0.52	1.68
1:A:593:ARG:O	2:B:2053:LEU:CA[1_565]	0.52	1.68
1:A:601:VAL:O	2:B:2128:GLY:C[1_565]	0.53	1.67
1:A:636:TYR:OH	2:B:2305:TYR:CA[1_565]	0.53	1.67
1:A:656:TYR:CG	2:B:2261:LEU:CD2[1_565]	0.53	1.67
1:A:395:TYR:OH	2:B:2075:LEU:CG[1_565]	0.54	1.66
1:A:520:GLY:N	2:B:2330:ASP:N[1_565]	0.54	1.66
1:A:568:SER:N	2:B:2190:ILE:CD1[1_565]	0.54	1.66
1:A:437:LYS:C	4:D:4:BMA:C6[1_565]	0.55	1.65
1:A:608:PHE:N	2:B:2152:HIS:N[1_565]	0.55	1.65
1:A:681:SER:N	2:B:2309:HIS:CG[1_565]	0.55	1.65
1:A:693:HIS:CB	2:B:2277:ASN:O[1_565]	0.55	1.65
1:A:473:TYR:CZ	2:B:2021:CYS:C[1_565]	0.56	1.64
1:A:599:ALA:CA	2:B:2131:ASP:O[1_565]	0.56	1.64
1:A:615:HIS:NE2	2:B:2106:SER:CB[1_565]	0.56	1.64
1:A:651:VAL:CA	2:B:2276:GLN:O[1_565]	0.56	1.64
1:A:679:PHE:CE2	2:B:2307:ARG:CA[1_565]	0.56	1.64
1:A:402:PRO:CB	2:B:2036:GLN:CD[1_565]	0.57	1.63
1:A:608:PHE:CD1	2:B:2151:LEU:CG[1_565]	0.57	1.63
1:A:658:PHE:CA	2:B:2273:LEU:CB[1_565]	0.57	1.63
1:A:410:GLN:CG	2:B:2040:SER:OG[1_565]	0.58	1.62
1:A:609:GLN:CG	2:B:2103:ILE:N[1_565]	0.58	1.62
1:A:682:MET:CA	2:B:2309:HIS:O[1_565]	0.58	1.62
1:A:593:ARG:CA	2:B:2053:LEU:CB[1_565]	0.59	1.61
1:A:614:MET:CA	2:B:2148:TYR:CA[1_565]	0.59	1.61
1:A:631:LEU:CG	2:B:2313:TRP:CE3[1_565]	0.59	1.61
1:A:653:PHE:CD1	2:B:2281:LYS:CB[1_565]	0.59	1.61
1:A:595:LEU:C	2:B:2163:ARG:CB[1_565]	0.60	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:394:ASP:CB	2:B:2031:HIS:CB[1_565]	0.61	1.59
1:A:612:ASN:C	2:B:2149:ILE:CA[1_565]	0.61	1.59
1:A:410:GLN:OE1	2:B:2070:TRP:NE1[1_565]	0.62	1.58
1:A:543:LEU:CA	2:B:2080:ILE:CG1[1_565]	0.63	1.57
1:A:596:PRO:C	2:B:2163:ARG:CD[1_565]	0.63	1.57
1:A:610:ALA:C	2:B:2150:ARG:CB[1_565]	0.63	1.57
1:A:541:ARG:NE	2:B:2140:PHE:O[1_565]	0.64	1.56
1:A:552:LEU:CD1	2:B:2239:LYS:O[1_565]	0.65	1.55
1:A:570:LYS:CB	2:B:2322:GLU:CA[1_565]	0.65	1.55
1:A:598:PRO:N	2:B:2088:GLY:N[1_565]	0.65	1.55
1:A:666:ASP:O	2:B:2275:PHE:CD2[1_565]	0.65	1.55
1:A:526:PRO:CD	2:B:2266:GLN:CD[1_565]	0.66	1.54
1:A:621:VAL:CB	2:B:2074:ASP:OD2[1_565]	0.66	1.54
1:A:679:PHE:CE1	2:B:2307:ARG:CG[1_565]	0.66	1.54
1:A:572:ASN:C	2:B:2242:GLY:CA[1_565]	0.67	1.53
1:A:597:ASN:C	2:B:2088:GLY:CA[1_565]	0.67	1.53
1:A:653:PHE:CB	2:B:2281:LYS:N[1_565]	0.67	1.53
1:A:390:GLU:OE2	2:B:1993:ALA:CB[1_565]	0.68	1.52
1:A:410:GLN:N	2:B:2037:ILE:CB[1_565]	0.68	1.52
1:A:417:GLN:CG	2:B:2051:ALA:N[1_565]	0.68	1.52
1:A:527:ARG:CB	2:B:2304:ARG:CG[1_565]	0.68	1.52
1:A:592:GLN:CG	2:B:2135:ILE:CG2[1_565]	0.68	1.52
1:A:553:ILE:CA	2:B:2327:GLU:CB[1_565]	0.69	1.51
1:A:593:ARG:N	2:B:2053:LEU:CG[1_565]	0.69	1.51
1:A:607:GLU:CA	2:B:2152:HIS:CG[1_565]	0.69	1.51
1:A:422:LYS:NZ	2:B:2028:ALA:O[1_565]	0.70	1.50
1:A:439:ARG:CA	4:D:2:BMA:O6[1_565]	0.70	1.50
1:A:546:GLY:C	2:B:2170:ASP:CA[1_565]	0.70	1.50
1:A:590:ASN:CG	2:B:2166:LEU:N[1_565]	0.70	1.50
1:A:619:GLY:C	2:B:2076:LEU:CA[1_565]	0.70	1.50
1:A:389:GLU:O	2:B:2018:SER:O[1_565]	0.71	1.49
1:A:584:SER:O	2:B:2083:GLY:N[1_565]	0.71	1.49
1:A:591:ILE:CG1	2:B:2086:THR:N[1_565]	0.71	1.49
1:A:631:LEU:CD1	2:B:2313:TRP:CZ3[1_565]	0.71	1.49
1:A:653:PHE:C	2:B:2280:VAL:O[1_565]	0.71	1.49
1:A:679:PHE:C	2:B:2263:SER:N[1_565]	0.71	1.49
1:A:452:LEU:N	2:B:2175:SER:C[1_565]	0.72	1.48
1:A:545:SER:N	2:B:2080:ILE:O[1_565]	0.72	1.48
1:A:519:ASP:O	2:B:2329:GLN:CA[1_565]	0.73	1.47
1:A:639:ILE:CD1	2:B:2274:PHE:CE2[1_565]	0.73	1.47
1:A:659:LYS:CD	2:B:2271:TRP:CG[1_565]	0.73	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:TRP:CH2	1:A:472:PRO:CD[1_545]	0.74	1.46
1:A:419:ILE:CG2	2:B:2049:LYS:CB[1_565]	0.74	1.46
1:A:547:LEU:O	2:B:2171:LEU:CA[1_565]	0.74	1.46
1:A:553:ILE:CG1	2:B:2327:GLU:C[1_565]	0.74	1.46
1:A:566:ILE:CA	2:B:2206:SER:OG[1_565]	0.74	1.46
1:A:586:TYR:CA	2:B:2167:MET:CB[1_565]	0.74	1.46
1:A:592:GLN:C	2:B:2053:LEU:CD1[1_565]	0.74	1.46
1:A:682:MET:N	2:B:2309:HIS:C[1_565]	0.74	1.46
1:A:690:LEU:CG	2:B:2281:LYS:NZ[1_565]	0.74	1.46
1:A:391:GLU:C	2:B:2017:TYR:CD1[1_565]	0.75	1.45
1:A:452:LEU:N	2:B:2176:MET:N[1_565]	0.75	1.45
1:A:564:ASN:O	2:B:2188:ALA:CA[1_565]	0.75	1.45
1:A:594:PHE:CD2	2:B:2052:ARG:CG[1_565]	0.75	1.45
1:A:595:LEU:CB	2:B:2163:ARG:C[1_565]	0.75	1.45
1:A:614:MET:N	2:B:2148:TYR:C[1_565]	0.75	1.45
1:A:636:TYR:CZ	2:B:2306:LEU:N[1_565]	0.75	1.45
1:A:660:HIS:O	2:B:2272:THR:CB[1_565]	0.75	1.45
1:A:573:VAL:N	2:B:2242:GLY:CA[1_565]	0.76	1.44
1:A:596:PRO:N	2:B:2163:ARG:CB[1_565]	0.76	1.44
1:A:604:GLU:OE2	2:B:2125:VAL:CG2[1_565]	0.76	1.44
1:A:666:ASP:C	2:B:2275:PHE:CE2[1_565]	0.76	1.44
1:A:406:SER:N	2:B:2038:THR:C[1_565]	0.77	1.43
1:A:421:ARG:NH1	2:B:2036:GLN:N[1_565]	0.77	1.43
1:A:574:ILE:O	2:B:2297:LEU:O[1_565]	0.77	1.43
1:A:576:PHE:CD1	2:B:2298:ASP:CB[1_565]	0.77	1.43
1:A:682:MET:O	2:B:2310:PRO:CA[1_565]	0.77	1.43
1:A:697:PHE:CB	2:B:2110:LYS:N[1_565]	0.77	1.43
1:A:402:PRO:CA	2:B:2036:GLN:NE2[1_565]	0.78	1.42
1:A:411:TYR:CG	2:B:2072:LYS:CG[1_565]	0.78	1.42
1:A:424:LYS:CD	2:B:2024:PRO:CB[1_565]	0.78	1.42
1:A:573:VAL:O	2:B:2296:SER:CB[1_565]	0.78	1.42
1:A:586:TYR:CZ	2:B:2023:THR:N[1_565]	0.78	1.42
1:A:614:MET:C	2:B:2148:TYR:N[1_565]	0.78	1.42
1:A:651:VAL:C	2:B:2276:GLN:C[1_565]	0.78	1.42
1:A:656:TYR:O	2:B:2280:VAL:CB[1_565]	0.78	1.42
1:A:391:GLU:N	2:B:2018:SER:N[1_565]	0.79	1.41
1:A:416:PRO:C	2:B:2062:TRP:CA[1_565]	0.79	1.41
1:A:417:GLN:OE1	2:B:2050:LEU:O[1_565]	0.79	1.41
1:A:525:ASP:O	2:B:2266:GLN:CA[1_565]	0.79	1.41
1:A:549:GLY:N	2:B:2173:SER:N[1_565]	0.79	1.41
1:A:555:TYR:N	2:B:2236:LYS:C[1_565]	0.79	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:615:HIS:O	2:B:2148:TYR:CE1[1_565]	0.79	1.41
1:A:636:TYR:CG	2:B:2306:LEU:CB[1_565]	0.79	1.41
1:A:636:TYR:CE2	2:B:2306:LEU:N[1_565]	0.79	1.41
1:A:640:LEU:N	2:B:2300:PRO:N[1_565]	0.79	1.41
1:A:417:GLN:CB	2:B:2051:ALA:CB[1_565]	0.80	1.40
1:A:566:ILE:CA	2:B:2206:SER:CB[1_565]	0.80	1.40
1:A:586:TYR:OH	2:B:2023:THR:N[1_565]	0.80	1.40
1:A:601:VAL:C	2:B:2129:ASN:N[1_565]	0.80	1.40
1:A:636:TYR:CZ	2:B:2305:TYR:C[1_565]	0.80	1.40
1:A:402:PRO:CB	2:B:2036:GLN:NE2[1_565]	0.81	1.39
1:A:541:ARG:NH2	2:B:2140:PHE:CA[1_565]	0.81	1.39
1:A:593:ARG:C	2:B:2053:LEU:CA[1_565]	0.81	1.39
1:A:596:PRO:CG	2:B:2061:ALA:CB[1_565]	0.81	1.39
1:A:644:ALA:C	2:B:2107:LEU:CD2[1_565]	0.81	1.39
1:A:659:LYS:CD	2:B:2271:TRP:CB[1_565]	0.81	1.39
1:A:417:GLN:CB	2:B:2051:ALA:CA[1_565]	0.82	1.38
1:A:473:TYR:OH	2:B:2022:GLN:N[1_565]	0.82	1.38
1:A:527:ARG:NH2	2:B:2233:ASP:CG[1_565]	0.82	1.38
1:A:582:ASN:O	2:B:2140:PHE:CD1[1_565]	0.82	1.38
1:A:597:ASN:O	2:B:2088:GLY:CA[1_565]	0.82	1.38
1:A:597:ASN:CA	2:B:2088:GLY:O[1_565]	0.82	1.38
1:A:679:PHE:CB	2:B:2263:SER:O[1_565]	0.82	1.38
1:A:706:LEU:CD2	2:B:2282:VAL:C[1_565]	0.82	1.38
1:A:411:TYR:CG	2:B:2072:LYS:CB[1_565]	0.83	1.37
1:A:417:GLN:OE1	2:B:2050:LEU:C[1_565]	0.83	1.37
1:A:505:PRO:CG	2:B:1992:LYS:NZ[1_565]	0.83	1.37
1:A:544:ALA:C	2:B:2080:ILE:C[1_565]	0.83	1.37
1:A:712:ASP:OD2	2:B:2255:MET:CE[1_565]	0.83	1.37
1:A:519:ASP:C	2:B:2329:GLN:CA[1_565]	0.84	1.36
1:A:546:GLY:C	2:B:2170:ASP:N[1_565]	0.84	1.36
1:A:579:PHE:CE2	2:B:2077:ALA:O[1_565]	0.84	1.36
1:A:639:ILE:C	2:B:2299:PRO:C[1_565]	0.84	1.36
1:A:652:PHE:N	2:B:2276:GLN:CA[1_565]	0.84	1.36
1:A:660:HIS:O	2:B:2272:THR:OG1[1_565]	0.84	1.36
1:A:403:ASP:CB	2:B:2046:TRP:CZ2[1_565]	0.85	1.35
1:A:467:ASN:CG	2:B:2020:LYS:CD[1_565]	0.85	1.35
1:A:546:GLY:O	2:B:2170:ASP:CB[1_565]	0.85	1.35
1:A:571:ARG:CA	2:B:2323:VAL:CA[1_565]	0.85	1.35
1:A:652:PHE:CA	2:B:2276:GLN:CB[1_565]	0.85	1.35
1:A:660:HIS:N	2:B:2272:THR:C[1_565]	0.85	1.35
1:A:679:PHE:C	2:B:2263:SER:CA[1_565]	0.85	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:ILE:N	2:B:2327:GLU:CA[1_565]	0.86	1.34
1:A:595:LEU:CA	2:B:2163:ARG:CA[1_565]	0.86	1.34
1:A:604:GLU:OE2	2:B:2125:VAL:CB[1_565]	0.86	1.34
1:A:708:VAL:CA	2:B:2259:GLU:N[1_565]	0.86	1.34
1:A:409:SER:N	2:B:2037:ILE:O[1_565]	0.87	1.33
1:A:445:GLU:CB	2:B:2294:VAL:CA[1_565]	0.87	1.33
1:A:445:GLU:CA	2:B:2294:VAL:CB[1_565]	0.87	1.33
1:A:543:LEU:CD1	2:B:2171:LEU:CD2[1_565]	0.87	1.33
1:A:564:ASN:C	2:B:2188:ALA:CA[1_565]	0.87	1.33
1:A:601:VAL:CB	2:B:2129:ASN:CA[1_565]	0.87	1.33
1:A:621:VAL:CB	2:B:2074:ASP:CG[1_565]	0.87	1.33
1:A:639:ILE:C	2:B:2300:PRO:N[1_565]	0.87	1.33
1:A:679:PHE:O	2:B:2263:SER:CA[1_565]	0.87	1.33
1:A:632:HIS:CD2	2:B:2317:ILE:CD1[1_565]	0.88	1.32
1:A:685:PRO:CB	2:B:2312:SER:OG[1_565]	0.88	1.32
1:A:390:GLU:CB	2:B:2023:THR:OG1[1_565]	0.89	1.31
1:A:566:ILE:C	2:B:2206:SER:CB[1_565]	0.89	1.31
1:A:587:LEU:O	2:B:2084:ILE:CA[1_565]	0.89	1.31
1:A:588:THR:OG1	2:B:2137:HIS:C[1_565]	0.89	1.31
1:A:597:ASN:CA	2:B:2088:GLY:C[1_565]	0.89	1.31
1:A:605:ASP:OD1	2:B:2152:HIS:O[1_565]	0.89	1.31
1:A:613:ILE:CG2	2:B:2105:TYR:C[1_565]	0.89	1.31
1:A:627:LEU:O	2:B:2284:GLN:C[1_565]	0.89	1.31
1:A:708:VAL:CG1	2:B:2259:GLU:O[1_565]	0.89	1.31
1:A:417:GLN:CD	2:B:2050:LEU:C[1_565]	0.90	1.30
1:A:586:TYR:CA	2:B:2167:MET:CG[1_565]	0.90	1.30
1:A:605:ASP:N	2:B:2101:PHE:C[1_565]	0.90	1.30
1:A:627:LEU:O	2:B:2284:GLN:O[1_565]	0.90	1.30
1:A:679:PHE:CZ	2:B:2307:ARG:CB[1_565]	0.90	1.30
1:A:106:TRP:CZ3	1:A:472:PRO:CD[1_545]	0.91	1.29
1:A:411:TYR:CD2	2:B:2072:LYS:CG[1_565]	0.91	1.29
1:A:421:ARG:CZ	2:B:2036:GLN:N[1_565]	0.91	1.29
1:A:543:LEU:C	2:B:2080:ILE:CG1[1_565]	0.91	1.29
1:A:568:SER:O	2:B:2180:MET:SD[1_565]	0.91	1.29
1:A:576:PHE:CE1	2:B:2298:ASP:CB[1_565]	0.91	1.29
1:A:578:VAL:CG2	2:B:2107:LEU:N[1_565]	0.91	1.29
1:A:589:GLU:CA	2:B:2085:LYS:CG[1_565]	0.91	1.29
1:A:591:ILE:N	2:B:2085:LYS:O[1_565]	0.91	1.29
1:A:596:PRO:O	2:B:2163:ARG:CD[1_565]	0.91	1.29
1:A:604:GLU:C	2:B:2101:PHE:O[1_565]	0.91	1.29
1:A:604:GLU:CG	2:B:2125:VAL:CA[1_565]	0.91	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:PHE:CG	2:B:2281:LYS:CB[1_565]	0.91	1.29
1:A:659:LYS:CG	2:B:2271:TRP:CB[1_565]	0.91	1.29
1:A:394:ASP:N	2:B:2031:HIS:ND1[1_565]	0.92	1.28
1:A:425:LYS:N	2:B:2025:LEU:CA[1_565]	0.92	1.28
1:A:580:ASP:C	2:B:2081:ILE:CD1[1_565]	0.92	1.28
1:A:581:GLU:N	2:B:2081:ILE:CD1[1_565]	0.92	1.28
1:A:597:ASN:ND2	2:B:2089:ALA:CA[1_565]	0.92	1.28
1:A:682:MET:N	2:B:2309:HIS:CA[1_565]	0.92	1.28
1:A:389:GLU:O	2:B:2018:SER:C[1_565]	0.93	1.27
1:A:543:LEU:N	2:B:2080:ILE:CD1[1_565]	0.93	1.27
1:A:571:ARG:N	2:B:2323:VAL:N[1_565]	0.93	1.27
1:A:586:TYR:N	2:B:2167:MET:CB[1_565]	0.93	1.27
1:A:613:ILE:C	2:B:2148:TYR:O[1_565]	0.93	1.27
1:A:620:TYR:O	2:B:2147:ARG:NH2[1_565]	0.93	1.27
1:A:640:LEU:CA	2:B:2300:PRO:CD[1_565]	0.93	1.27
1:A:659:LYS:CG	2:B:2271:TRP:CA[1_565]	0.93	1.27
1:A:679:PHE:CZ	2:B:2307:ARG:CG[1_565]	0.93	1.27
1:A:682:MET:CA	2:B:2309:HIS:C[1_565]	0.93	1.27
1:A:404:ASP:O	2:B:2039:ALA:CA[1_565]	0.94	1.26
1:A:557:GLU:CB	2:B:2235:GLN:CG[1_565]	0.94	1.26
1:A:573:VAL:CA	2:B:2241:THR:C[1_565]	0.94	1.26
1:A:653:PHE:O	2:B:2280:VAL:O[1_565]	0.94	1.26
1:A:677:THR:CG2	2:B:2303:THR:CG2[1_565]	0.94	1.26
1:A:681:SER:C	2:B:2309:HIS:CB[1_565]	0.94	1.26
1:A:682:MET:CE	2:B:2260:PHE:CA[1_565]	0.94	1.26
1:A:417:GLN:CD	2:B:2051:ALA:N[1_565]	0.95	1.25
1:A:421:ARG:NH1	2:B:2036:GLN:CA[1_565]	0.95	1.25
1:A:450:GLY:O	2:B:2175:SER:CB[1_565]	0.95	1.25
1:A:595:LEU:O	2:B:2163:ARG:CG[1_565]	0.95	1.25
1:A:608:PHE:CA	2:B:2152:HIS:N[1_565]	0.95	1.25
1:A:627:LEU:C	2:B:2284:GLN:O[1_565]	0.95	1.25
1:A:638:TYR:CD2	2:B:2240:VAL:CG1[1_565]	0.95	1.25
1:A:702:MET:CG	2:B:2108:ASP:O[1_565]	0.95	1.25
2:B:1820:GLN:CB	2:B:2227:LYS:CE[1_565]	0.95	1.25
1:A:390:GLU:C	2:B:2018:SER:CA[1_565]	0.96	1.24
1:A:416:PRO:C	2:B:2062:TRP:CB[1_565]	0.96	1.24
1:A:546:GLY:N	2:B:2169:CYS:O[1_565]	0.96	1.24
1:A:563:GLY:O	2:B:2189:GLN:O[1_565]	0.96	1.24
1:A:564:ASN:ND2	2:B:2189:GLN:CG[1_565]	0.96	1.24
1:A:574:ILE:CG1	2:B:2296:SER:O[1_565]	0.96	1.24
1:A:584:SER:CA	2:B:2082:HIS:N[1_565]	0.96	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:587:LEU:CA	2:B:2084:ILE:N[1_565]	0.96	1.24
1:A:599:ALA:CA	2:B:2131:ASP:C[1_565]	0.96	1.24
1:A:634:VAL:CG1	2:B:2230:LEU:N[1_565]	0.96	1.24
1:A:666:ASP:C	2:B:2275:PHE:CD2[1_565]	0.96	1.24
1:A:679:PHE:CA	2:B:2263:SER:C[1_565]	0.96	1.24
1:A:686:GLY:O	2:B:2259:GLU:CD[1_565]	0.96	1.24
1:A:391:GLU:CA	2:B:2018:SER:CB[1_565]	0.97	1.23
1:A:408:LYS:C	2:B:2037:ILE:O[1_565]	0.97	1.23
1:A:439:ARG:N	4:D:2:BMA:C6[1_565]	0.97	1.23
1:A:467:ASN:CG	2:B:2020:LYS:CG[1_565]	0.97	1.23
1:A:552:LEU:O	2:B:2326:CYS:C[1_565]	0.97	1.23
1:A:564:ASN:CA	2:B:2188:ALA:C[1_565]	0.97	1.23
1:A:566:ILE:C	2:B:2206:SER:CA[1_565]	0.97	1.23
1:A:577:SER:CB	2:B:2078:PRO:CB[1_565]	0.97	1.23
1:A:601:VAL:CA	2:B:2129:ASN:CA[1_565]	0.97	1.23
1:A:602:GLN:CD	2:B:2098:ILE:CB[1_565]	0.97	1.23
1:A:612:ASN:C	2:B:2149:ILE:CB[1_565]	0.97	1.23
1:A:613:ILE:C	2:B:2148:TYR:C[1_565]	0.97	1.23
1:A:391:GLU:O	2:B:2017:TYR:CD1[1_565]	0.98	1.22
1:A:424:LYS:C	2:B:2025:LEU:CA[1_565]	0.98	1.22
1:A:552:LEU:C	2:B:2326:CYS:C[1_565]	0.98	1.22
1:A:592:GLN:NE2	2:B:2135:ILE:CA[1_565]	0.98	1.22
1:A:607:GLU:N	2:B:2152:HIS:CB[1_565]	0.98	1.22
1:A:608:PHE:CD1	2:B:2151:LEU:CD1[1_565]	0.98	1.22
1:A:614:MET:SD	2:B:2073:VAL:O[1_565]	0.98	1.22
1:A:660:HIS:N	2:B:2272:THR:O[1_565]	0.98	1.22
1:A:681:SER:CB	2:B:2309:HIS:ND1[1_565]	0.98	1.22
1:A:406:SER:N	2:B:2038:THR:O[1_565]	0.99	1.21
1:A:428:PHE:CE1	2:B:2172:ASN:ND2[1_565]	0.99	1.21
1:A:428:PHE:CD1	2:B:2172:ASN:ND2[1_565]	0.99	1.21
1:A:544:ALA:CA	2:B:2080:ILE:CA[1_565]	0.99	1.21
1:A:547:LEU:CA	2:B:2170:ASP:C[1_565]	0.99	1.21
1:A:573:VAL:CA	2:B:2241:THR:O[1_565]	0.99	1.21
1:A:574:ILE:N	2:B:2297:LEU:N[1_565]	0.99	1.21
1:A:583:ARG:N	2:B:2140:PHE:CD2[1_565]	0.99	1.21
1:A:605:ASP:N	2:B:2102:ILE:N[1_565]	0.99	1.21
1:A:615:HIS:NE2	2:B:2106:SER:OG[1_565]	0.99	1.21
1:A:656:TYR:CD1	2:B:2261:LEU:CG[1_565]	0.99	1.21
1:A:681:SER:CA	2:B:2309:HIS:CG[1_565]	0.99	1.21
1:A:710:SER:N	2:B:2313:TRP:C[1_565]	0.99	1.21
1:A:422:LYS:O	2:B:2027:MET:CE[1_565]	1.00	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:SER:CA	2:B:2190:ILE:CD1[1_565]	1.00	1.20
1:A:569:ASP:OD2	2:B:2230:LEU:CD2[1_565]	1.00	1.20
1:A:571:ARG:NH2	2:B:2322:GLU:CD[1_565]	1.00	1.20
1:A:576:PHE:CG	2:B:2298:ASP:OD2[1_565]	1.00	1.20
1:A:578:VAL:CG2	2:B:2107:LEU:CA[1_565]	1.00	1.20
1:A:582:ASN:ND2	2:B:2103:ILE:CG2[1_565]	1.00	1.20
1:A:589:GLU:CG	2:B:2085:LYS:NZ[1_565]	1.00	1.20
1:A:605:ASP:CG	2:B:2152:HIS:O[1_565]	1.00	1.20
1:A:615:HIS:CD2	2:B:2106:SER:CB[1_565]	1.00	1.20
1:A:680:MET:CB	2:B:2262:ILE:CA[1_565]	1.00	1.20
1:A:682:MET:CE	2:B:2260:PHE:C[1_565]	1.00	1.20
1:A:395:TYR:CZ	2:B:2075:LEU:CG[1_565]	1.01	1.19
1:A:411:TYR:CB	2:B:2072:LYS:CB[1_565]	1.01	1.19
1:A:411:TYR:CE1	2:B:2072:LYS:CD[1_565]	1.01	1.19
1:A:424:LYS:O	2:B:2025:LEU:N[1_565]	1.01	1.19
1:A:545:SER:CA	2:B:2080:ILE:O[1_565]	1.01	1.19
1:A:546:GLY:O	2:B:2170:ASP:CA[1_565]	1.01	1.19
1:A:552:LEU:C	2:B:2327:GLU:N[1_565]	1.01	1.19
1:A:589:GLU:CD	2:B:2085:LYS:NZ[1_565]	1.01	1.19
1:A:591:ILE:CB	2:B:2086:THR:CA[1_565]	1.01	1.19
1:A:592:GLN:C	2:B:2053:LEU:CG[1_565]	1.01	1.19
1:A:599:ALA:N	2:B:2131:ASP:O[1_565]	1.01	1.19
1:A:679:PHE:CE2	2:B:2307:ARG:CB[1_565]	1.01	1.19
1:A:417:GLN:CG	2:B:2051:ALA:CA[1_565]	1.02	1.18
1:A:469:ALA:CB	2:B:2019:ASN:ND2[1_565]	1.02	1.18
1:A:473:TYR:CE1	2:B:2021:CYS:CA[1_565]	1.02	1.18
1:A:545:SER:N	2:B:2080:ILE:C[1_565]	1.02	1.18
1:A:564:ASN:CG	2:B:2189:GLN:CB[1_565]	1.02	1.18
1:A:564:ASN:O	2:B:2188:ALA:N[1_565]	1.02	1.18
1:A:572:ASN:CB	2:B:2243:VAL:CA[1_565]	1.02	1.18
1:A:574:ILE:C	2:B:2297:LEU:O[1_565]	1.02	1.18
1:A:603:LEU:O	2:B:2101:PHE:N[1_565]	1.02	1.18
1:A:653:PHE:CD1	2:B:2281:LYS:CG[1_565]	1.02	1.18
1:A:653:PHE:CE1	2:B:2281:LYS:CG[1_565]	1.02	1.18
1:A:690:LEU:CD1	2:B:2281:LYS:NZ[1_565]	1.02	1.18
1:A:713:LYS:N	2:B:2248:VAL:CG2[1_565]	1.02	1.18
1:A:418:ARG:CB	2:B:2048:PRO:CD[1_565]	1.03	1.17
1:A:456:GLU:C	2:B:2236:LYS:NZ[1_565]	1.03	1.17
1:A:541:ARG:N	2:B:2143:PRO:CB[1_565]	1.03	1.17
1:A:543:LEU:CA	2:B:2080:ILE:CD1[1_565]	1.03	1.17
1:A:553:ILE:CG1	2:B:2327:GLU:O[1_565]	1.03	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:577:SER:OG	2:B:2078:PRO:CB[1_565]	1.03	1.17
1:A:600:GLY:CA	2:B:2097:TYR:CG[1_565]	1.03	1.17
1:A:612:ASN:O	2:B:2149:ILE:CG1[1_565]	1.03	1.17
1:A:613:ILE:CD1	2:B:2105:TYR:N[1_565]	1.03	1.17
1:A:637:TRP:CG	2:B:2262:ILE:CD1[1_565]	1.03	1.17
1:A:680:MET:N	2:B:2263:SER:N[1_565]	1.03	1.17
1:A:395:TYR:OH	2:B:2075:LEU:CD1[1_565]	1.04	1.16
1:A:457:VAL:CG2	2:B:2330:ASP:OD2[1_565]	1.04	1.16
1:A:526:PRO:CD	2:B:2266:GLN:OE1[1_565]	1.04	1.16
1:A:527:ARG:NH2	2:B:2233:ASP:OD2[1_565]	1.04	1.16
1:A:627:LEU:CB	2:B:2295:ASN:OD1[1_565]	1.04	1.16
1:A:697:PHE:CA	2:B:2110:LYS:N[1_565]	1.04	1.16
1:A:390:GLU:OE2	2:B:1993:ALA:CA[1_565]	1.05	1.15
1:A:418:ARG:NH1	2:B:2041:GLY:CA[1_565]	1.05	1.15
1:A:418:ARG:CA	2:B:2048:PRO:CG[1_565]	1.05	1.15
1:A:439:ARG:CA	4:D:2:BMA:C6[1_565]	1.05	1.15
1:A:526:PRO:N	2:B:2266:GLN:OE1[1_565]	1.05	1.15
1:A:572:ASN:ND2	2:B:2243:VAL:C[1_565]	1.05	1.15
1:A:579:PHE:CE1	2:B:2079:MET:CA[1_565]	1.05	1.15
1:A:580:ASP:CB	2:B:2144:ILE:CG2[1_565]	1.05	1.15
1:A:597:ASN:C	2:B:2088:GLY:N[1_565]	1.05	1.15
1:A:597:ASN:CB	2:B:2088:GLY:C[1_565]	1.05	1.15
1:A:609:GLN:CG	2:B:2102:ILE:C[1_565]	1.05	1.15
1:A:609:GLN:CB	2:B:2103:ILE:N[1_565]	1.05	1.15
1:A:634:VAL:C	2:B:2308:ILE:CB[1_565]	1.05	1.15
1:A:658:PHE:C	2:B:2273:LEU:CB[1_565]	1.05	1.15
1:A:117:GLN:OE1	1:A:592:GLN:OE1[1_545]	1.06	1.14
1:A:276:PHE:CD1	2:B:2332:TYR:O[1_565]	1.06	1.14
1:A:413:ASN:OD1	2:B:2164:MET:SD[1_565]	1.06	1.14
1:A:467:ASN:ND2	2:B:2020:LYS:CG[1_565]	1.06	1.14
1:A:519:ASP:O	2:B:2329:GLN:N[1_565]	1.06	1.14
1:A:573:VAL:CB	2:B:2241:THR:C[1_565]	1.06	1.14
1:A:592:GLN:CA	2:B:2053:LEU:CD1[1_565]	1.06	1.14
1:A:614:MET:CA	2:B:2148:TYR:N[1_565]	1.06	1.14
1:A:619:GLY:O	2:B:2076:LEU:CA[1_565]	1.06	1.14
1:A:636:TYR:CE2	2:B:2306:LEU:CA[1_565]	1.06	1.14
1:A:416:PRO:CD	2:B:2162:LEU:N[1_565]	1.07	1.13
1:A:549:GLY:C	2:B:2173:SER:C[1_565]	1.07	1.13
1:A:586:TYR:CE2	2:B:2023:THR:C[1_565]	1.07	1.13
1:A:589:GLU:CA	2:B:2085:LYS:CD[1_565]	1.07	1.13
1:A:611:SER:N	2:B:2150:ARG:CA[1_565]	1.07	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:TYR:CD2	2:B:2240:VAL:CB[1_565]	1.07	1.13
1:A:677:THR:CA	2:B:2301:LEU:CD2[1_565]	1.07	1.13
1:A:681:SER:N	2:B:2309:HIS:CD2[1_565]	1.07	1.13
1:A:406:SER:CA	2:B:2038:THR:C[1_565]	1.08	1.12
1:A:416:PRO:CA	2:B:2062:TRP:C[1_565]	1.08	1.12
1:A:528:CYS:CA	2:B:2303:THR:O[1_565]	1.08	1.12
1:A:584:SER:OG	2:B:2167:MET:O[1_565]	1.08	1.12
1:A:604:GLU:CA	2:B:2101:PHE:O[1_565]	1.08	1.12
1:A:605:ASP:O	2:B:2102:ILE:CG1[1_565]	1.08	1.12
1:A:610:ALA:O	2:B:2150:ARG:CB[1_565]	1.08	1.12
1:A:614:MET:O	2:B:2147:ARG:C[1_565]	1.08	1.12
1:A:652:PHE:N	2:B:2276:GLN:C[1_565]	1.08	1.12
1:A:679:PHE:CA	2:B:2263:SER:O[1_565]	1.08	1.12
1:A:418:ARG:CA	2:B:2048:PRO:CD[1_565]	1.09	1.11
1:A:452:LEU:CA	2:B:2176:MET:N[1_565]	1.09	1.11
1:A:572:ASN:CA	2:B:2242:GLY:O[1_565]	1.09	1.11
1:A:576:PHE:CD1	2:B:2298:ASP:CG[1_565]	1.09	1.11
1:A:592:GLN:CG	2:B:2135:ILE:CB[1_565]	1.09	1.11
1:A:597:ASN:ND2	2:B:2089:ALA:C[1_565]	1.09	1.11
1:A:597:ASN:CG	2:B:2089:ALA:N[1_565]	1.09	1.11
1:A:601:VAL:CA	2:B:2129:ASN:N[1_565]	1.09	1.11
1:A:611:SER:N	2:B:2150:ARG:C[1_565]	1.09	1.11
1:A:614:MET:CE	2:B:2073:VAL:N[1_565]	1.09	1.11
1:A:615:HIS:O	2:B:2148:TYR:CZ[1_565]	1.09	1.11
1:A:409:SER:C	2:B:2037:ILE:CB[1_565]	1.10	1.10
1:A:410:GLN:O	2:B:2071:ILE:CA[1_565]	1.10	1.10
1:A:422:LYS:C	2:B:2027:MET:CE[1_565]	1.10	1.10
1:A:423:TYR:CD2	2:B:2166:LEU:CD1[1_565]	1.10	1.10
1:A:579:PHE:CE1	2:B:2079:MET:N[1_565]	1.10	1.10
1:A:582:ASN:CG	2:B:2103:ILE:CG2[1_565]	1.10	1.10
1:A:586:TYR:OH	2:B:2022:GLN:C[1_565]	1.10	1.10
1:A:594:PHE:N	2:B:2053:LEU:N[1_565]	1.10	1.10
1:A:596:PRO:O	2:B:2163:ARG:NE[1_565]	1.10	1.10
1:A:608:PHE:CG	2:B:2151:LEU:CG[1_565]	1.10	1.10
1:A:613:ILE:N	2:B:2149:ILE:CA[1_565]	1.10	1.10
1:A:685:PRO:CA	2:B:2312:SER:OG[1_565]	1.10	1.10
1:A:391:GLU:N	2:B:2018:SER:CB[1_565]	1.11	1.09
1:A:439:ARG:O	4:D:2:BMA:O4[1_565]	1.11	1.09
1:A:445:GLU:CB	2:B:2294:VAL:CB[1_565]	1.11	1.09
1:A:445:GLU:CG	2:B:2294:VAL:CA[1_565]	1.11	1.09
1:A:457:VAL:CG2	2:B:2330:ASP:CG[1_565]	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:525:ASP:C	2:B:2266:GLN:CB[1_565]	1.11	1.09
1:A:526:PRO:N	2:B:2266:GLN:CD[1_565]	1.11	1.09
1:A:527:ARG:N	2:B:2304:ARG:CB[1_565]	1.11	1.09
1:A:549:GLY:O	2:B:2173:SER:CA[1_565]	1.11	1.09
1:A:554:CYS:O	2:B:2236:LYS:CG[1_565]	1.11	1.09
1:A:555:TYR:N	2:B:2236:LYS:CA[1_565]	1.11	1.09
1:A:564:ASN:N	2:B:2188:ALA:O[1_565]	1.11	1.09
1:A:573:VAL:CG1	2:B:2241:THR:N[1_565]	1.11	1.09
1:A:607:GLU:CA	2:B:2152:HIS:CB[1_565]	1.11	1.09
1:A:608:PHE:CA	2:B:2151:LEU:C[1_565]	1.11	1.09
1:A:616:SER:CA	2:B:2147:ARG:NE[1_565]	1.11	1.09
1:A:657:THR:C	2:B:2273:LEU:CD1[1_565]	1.11	1.09
1:A:688:TRP:CB	2:B:2282:VAL:CG1[1_565]	1.11	1.09
1:A:710:SER:N	2:B:2313:TRP:CA[1_565]	1.11	1.09
1:A:713:LYS:CD	2:B:2218:ALA:CB[1_565]	1.11	1.09
1:A:437:LYS:C	4:D:4:BMA:C5[1_565]	1.12	1.08
1:A:473:TYR:CE2	2:B:2021:CYS:O[1_565]	1.12	1.08
1:A:544:ALA:CB	2:B:2144:ILE:O[1_565]	1.12	1.08
1:A:564:ASN:C	2:B:2188:ALA:C[1_565]	1.12	1.08
1:A:571:ARG:N	2:B:2323:VAL:CA[1_565]	1.12	1.08
1:A:573:VAL:CG2	2:B:2241:THR:CG2[1_565]	1.12	1.08
1:A:573:VAL:N	2:B:2242:GLY:N[1_565]	1.12	1.08
1:A:574:ILE:CA	2:B:2297:LEU:N[1_565]	1.12	1.08
1:A:605:ASP:OD1	2:B:2152:HIS:C[1_565]	1.12	1.08
1:A:619:GLY:O	2:B:2076:LEU:N[1_565]	1.12	1.08
1:A:619:GLY:CA	2:B:2076:LEU:C[1_565]	1.12	1.08
1:A:629:VAL:N	2:B:2285:GLY:CA[1_565]	1.12	1.08
1:A:658:PHE:CG	2:B:2274:PHE:N[1_565]	1.12	1.08
1:A:680:MET:C	2:B:2309:HIS:CD2[1_565]	1.12	1.08
1:A:393:TRP:C	2:B:2031:HIS:CE1[1_565]	1.13	1.07
1:A:403:ASP:OD1	2:B:2046:TRP:CE2[1_565]	1.13	1.07
1:A:604:GLU:CG	2:B:2125:VAL:C[1_565]	1.13	1.07
1:A:613:ILE:CG1	2:B:2104:MET:C[1_565]	1.13	1.07
1:A:615:HIS:C	2:B:2148:TYR:CE1[1_565]	1.13	1.07
1:A:658:PHE:CG	2:B:2273:LEU:C[1_565]	1.13	1.07
1:A:683:GLU:CA	2:B:2310:PRO:O[1_565]	1.13	1.07
1:A:709:SER:C	2:B:2313:TRP:CA[1_565]	1.13	1.07
1:A:525:ASP:OD2	2:B:2331:LEU:O[1_565]	1.14	1.06
1:A:543:LEU:C	2:B:2080:ILE:CB[1_565]	1.14	1.06
1:A:590:ASN:OD1	2:B:2166:LEU:N[1_565]	1.14	1.06
1:A:613:ILE:CG2	2:B:2106:SER:N[1_565]	1.14	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:656:TYR:O	2:B:2280:VAL:CG1[1_565]	1.14	1.06
1:A:658:PHE:CB	2:B:2274:PHE:N[1_565]	1.14	1.06
1:A:688:TRP:CB	2:B:2282:VAL:CB[1_565]	1.14	1.06
1:A:707:LYS:C	2:B:2258:LYS:O[1_565]	1.14	1.06
1:A:417:GLN:CA	2:B:2051:ALA:CB[1_565]	1.15	1.05
1:A:520:GLY:N	2:B:2329:GLN:C[1_565]	1.15	1.05
1:A:543:LEU:CD1	2:B:2171:LEU:CG[1_565]	1.15	1.05
1:A:547:LEU:N	2:B:2170:ASP:C[1_565]	1.15	1.05
1:A:579:PHE:CD1	2:B:2079:MET:CA[1_565]	1.15	1.05
1:A:588:THR:OG1	2:B:2138:ASN:N[1_565]	1.15	1.05
1:A:590:ASN:C	2:B:2165:GLU:N[1_565]	1.15	1.05
1:A:601:VAL:C	2:B:2128:GLY:C[1_565]	1.15	1.05
1:A:609:GLN:CB	2:B:2103:ILE:CA[1_565]	1.15	1.05
1:A:614:MET:O	2:B:2147:ARG:CA[1_565]	1.15	1.05
1:A:615:HIS:N	2:B:2148:TYR:CD1[1_565]	1.15	1.05
1:A:619:GLY:C	2:B:2076:LEU:CB[1_565]	1.15	1.05
1:A:621:VAL:CG2	2:B:2074:ASP:OD2[1_565]	1.15	1.05
1:A:658:PHE:CD1	2:B:2274:PHE:C[1_565]	1.15	1.05
1:A:682:MET:SD	2:B:2261:LEU:N[1_565]	1.15	1.05
1:A:692:CYS:C	2:B:2277:ASN:CG[1_565]	1.15	1.05
1:A:390:GLU:O	2:B:2018:SER:OG[1_565]	1.16	1.04
1:A:392:ASP:N	2:B:2017:TYR:CE1[1_565]	1.16	1.04
1:A:402:PRO:O	2:B:2046:TRP:CH2[1_565]	1.16	1.04
1:A:406:SER:CB	2:B:2038:THR:OG1[1_565]	1.16	1.04
1:A:541:ARG:O	2:B:2082:HIS:CD2[1_565]	1.16	1.04
1:A:541:ARG:CZ	2:B:2140:PHE:O[1_565]	1.16	1.04
1:A:551:LEU:CA	2:B:2326:CYS:SG[1_565]	1.16	1.04
1:A:556:LYS:O	2:B:2235:GLN:CB[1_565]	1.16	1.04
1:A:574:ILE:CB	2:B:2297:LEU:CA[1_565]	1.16	1.04
1:A:591:ILE:CG1	2:B:2086:THR:CA[1_565]	1.16	1.04
1:A:613:ILE:CD1	2:B:2104:MET:C[1_565]	1.16	1.04
1:A:614:MET:N	2:B:2148:TYR:O[1_565]	1.16	1.04
1:A:615:HIS:CA	2:B:2148:TYR:CD1[1_565]	1.16	1.04
1:A:619:GLY:N	2:B:2076:LEU:O[1_565]	1.16	1.04
1:A:678:VAL:N	2:B:2301:LEU:CD1[1_565]	1.16	1.04
1:A:392:ASP:CB	2:B:2029:SER:O[1_565]	1.17	1.03
1:A:547:LEU:C	2:B:2171:LEU:N[1_565]	1.17	1.03
1:A:551:LEU:C	2:B:2326:CYS:SG[1_565]	1.17	1.03
1:A:564:ASN:ND2	2:B:2189:GLN:CB[1_565]	1.17	1.03
1:A:585:TRP:N	2:B:2082:HIS:CB[1_565]	1.17	1.03
1:A:590:ASN:O	2:B:2164:MET:C[1_565]	1.17	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:GLY:CA	2:B:2097:TYR:CD1[1_565]	1.17	1.03
1:A:608:PHE:N	2:B:2152:HIS:CA[1_565]	1.17	1.03
1:A:659:LYS:O	2:B:2264:SER:O[1_565]	1.17	1.03
1:A:682:MET:O	2:B:2310:PRO:C[1_565]	1.17	1.03
1:A:706:LEU:CD2	2:B:2282:VAL:O[1_565]	1.17	1.03
1:A:389:GLU:C	2:B:2018:SER:C[1_565]	1.18	1.02
1:A:411:TYR:CD1	2:B:2072:LYS:CD[1_565]	1.18	1.02
1:A:541:ARG:O	2:B:2082:HIS:NE2[1_565]	1.18	1.02
1:A:544:ALA:N	2:B:2080:ILE:CA[1_565]	1.18	1.02
1:A:587:LEU:CA	2:B:2083:GLY:C[1_565]	1.18	1.02
1:A:594:PHE:CE2	2:B:2052:ARG:CG[1_565]	1.18	1.02
1:A:597:ASN:CB	2:B:2089:ALA:N[1_565]	1.18	1.02
1:A:636:TYR:OH	2:B:2305:TYR:C[1_565]	1.18	1.02
1:A:686:GLY:O	2:B:2259:GLU:OE1[1_565]	1.18	1.02
1:A:691:GLY:O	2:B:2276:GLN:OE1[1_565]	1.18	1.02
1:A:395:TYR:CG	2:B:2074:ASP:O[1_565]	1.19	1.01
1:A:403:ASP:CG	2:B:2046:TRP:NE1[1_565]	1.19	1.01
1:A:403:ASP:OD1	2:B:2046:TRP:NE1[1_565]	1.19	1.01
1:A:473:TYR:OH	2:B:2021:CYS:C[1_565]	1.19	1.01
1:A:572:ASN:C	2:B:2242:GLY:C[1_565]	1.19	1.01
1:A:589:GLU:C	2:B:2085:LYS:CG[1_565]	1.19	1.01
1:A:590:ASN:CB	2:B:2165:GLU:O[1_565]	1.19	1.01
1:A:605:ASP:CA	2:B:2102:ILE:N[1_565]	1.19	1.01
1:A:613:ILE:CG1	2:B:2105:TYR:N[1_565]	1.19	1.01
1:A:619:GLY:N	2:B:2076:LEU:C[1_565]	1.19	1.01
1:A:644:ALA:CA	2:B:2107:LEU:CD2[1_565]	1.19	1.01
1:A:700:ARG:CD	2:B:2112:TRP:NE1[1_565]	1.19	1.01
1:A:409:SER:C	2:B:2037:ILE:CA[1_565]	1.20	1.00
1:A:419:ILE:N	2:B:2048:PRO:C[1_565]	1.20	1.00
1:A:422:LYS:O	2:B:2027:MET:SD[1_565]	1.20	1.00
1:A:425:LYS:NZ	2:B:2025:LEU:CD1[1_565]	1.20	1.00
1:A:531:ARG:C	2:B:2239:LYS:NZ[1_565]	1.20	1.00
1:A:591:ILE:CA	2:B:2085:LYS:O[1_565]	1.20	1.00
2:B:1820:GLN:CB	2:B:2227:LYS:CD[1_565]	1.20	1.00
1:A:395:TYR:CD1	2:B:2075:LEU:CA[1_565]	1.21	0.99
1:A:395:TYR:CE1	2:B:2075:LEU:CA[1_565]	1.21	0.99
1:A:410:GLN:N	2:B:2037:ILE:CA[1_565]	1.21	0.99
1:A:416:PRO:CA	2:B:2062:TRP:CA[1_565]	1.21	0.99
1:A:416:PRO:O	2:B:2062:TRP:CB[1_565]	1.21	0.99
1:A:418:ARG:N	2:B:2048:PRO:N[1_565]	1.21	0.99
1:A:419:ILE:CG1	2:B:2049:LYS:CA[1_565]	1.21	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:TYR:CE1	4:D:4:BMA:O3[1_565]	1.21	0.99
1:A:505:PRO:CB	2:B:1992:LYS:CE[1_565]	1.21	0.99
1:A:520:GLY:CA	2:B:2330:ASP:N[1_565]	1.21	0.99
1:A:527:ARG:CD	2:B:2304:ARG:NE[1_565]	1.21	0.99
1:A:547:LEU:O	2:B:2171:LEU:C[1_565]	1.21	0.99
1:A:549:GLY:CA	2:B:2173:SER:N[1_565]	1.21	0.99
1:A:552:LEU:O	2:B:2327:GLU:N[1_565]	1.21	0.99
1:A:557:GLU:OE2	2:B:2234:PHE:CA[1_565]	1.21	0.99
1:A:593:ARG:C	2:B:2053:LEU:CB[1_565]	1.21	0.99
1:A:602:GLN:NE2	2:B:2098:ILE:CB[1_565]	1.21	0.99
1:A:630:CYS:CB	2:B:2257:VAL:CB[1_565]	1.21	0.99
1:A:636:TYR:CA	2:B:2306:LEU:CD1[1_565]	1.21	0.99
1:A:682:MET:C	2:B:2310:PRO:C[1_565]	1.21	0.99
1:A:697:PHE:N	2:B:2110:LYS:CA[1_565]	1.21	0.99
1:A:106:TRP:CH2	1:A:472:PRO:N[1_545]	1.22	0.98
1:A:406:SER:CA	2:B:2038:THR:O[1_565]	1.22	0.98
1:A:411:TYR:CA	2:B:2072:LYS:N[1_565]	1.22	0.98
1:A:456:GLU:CA	2:B:2236:LYS:NZ[1_565]	1.22	0.98
1:A:556:LYS:N	2:B:2235:GLN:O[1_565]	1.22	0.98
1:A:570:LYS:NZ	2:B:2180:MET:CB[1_565]	1.22	0.98
1:A:608:PHE:CE2	2:B:2101:PHE:CE1[1_565]	1.22	0.98
1:A:618:ASN:C	2:B:2076:LEU:O[1_565]	1.22	0.98
1:A:640:LEU:CB	2:B:2300:PRO:CD[1_565]	1.22	0.98
1:A:651:VAL:C	2:B:2276:GLN:O[1_565]	1.22	0.98
1:A:653:PHE:CB	2:B:2281:LYS:CA[1_565]	1.22	0.98
1:A:656:TYR:CD1	2:B:2261:LEU:CD2[1_565]	1.22	0.98
1:A:663:VAL:O	2:B:2271:TRP:O[1_565]	1.22	0.98
1:A:712:ASP:OD1	2:B:2254:SER:O[1_565]	1.22	0.98
1:A:428:PHE:CD1	2:B:2172:ASN:CG[1_565]	1.23	0.97
1:A:456:GLU:CB	2:B:2236:LYS:CE[1_565]	1.23	0.97
1:A:505:PRO:CB	2:B:1992:LYS:NZ[1_565]	1.23	0.97
1:A:521:PRO:C	2:B:2331:LEU:CB[1_565]	1.23	0.97
1:A:547:LEU:CB	2:B:2170:ASP:O[1_565]	1.23	0.97
1:A:553:ILE:O	2:B:2237:THR:O[1_565]	1.23	0.97
1:A:571:ARG:NH2	2:B:2322:GLU:OE2[1_565]	1.23	0.97
1:A:578:VAL:CB	2:B:2107:LEU:CA[1_565]	1.23	0.97
1:A:586:TYR:CB	2:B:2167:MET:CA[1_565]	1.23	0.97
1:A:608:PHE:CD2	2:B:2101:PHE:CD1[1_565]	1.23	0.97
1:A:658:PHE:CD1	2:B:2274:PHE:O[1_565]	1.23	0.97
1:A:680:MET:CG	2:B:2262:ILE:N[1_565]	1.23	0.97
1:A:681:SER:CA	2:B:2309:HIS:CB[1_565]	1.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:690:LEU:CG	2:B:2281:LYS:CE[1_565]	1.23	0.97
1:A:707:LYS:O	2:B:2258:LYS:O[1_565]	1.23	0.97
1:A:394:ASP:CA	2:B:2031:HIS:ND1[1_565]	1.24	0.96
1:A:468:GLN:O	2:B:1936:GLN:OE1[1_565]	1.24	0.96
1:A:473:TYR:CZ	2:B:2021:CYS:CA[1_565]	1.24	0.96
1:A:522:THR:N	2:B:2331:LEU:CB[1_565]	1.24	0.96
1:A:550:PRO:O	2:B:2174:CYS:CB[1_565]	1.24	0.96
1:A:570:LYS:CB	2:B:2322:GLU:N[1_565]	1.24	0.96
1:A:572:ASN:CA	2:B:2243:VAL:N[1_565]	1.24	0.96
1:A:573:VAL:CB	2:B:2241:THR:CA[1_565]	1.24	0.96
1:A:585:TRP:O	2:B:2022:GLN:NE2[1_565]	1.24	0.96
1:A:589:GLU:C	2:B:2085:LYS:CD[1_565]	1.24	0.96
1:A:608:PHE:CE2	2:B:2101:PHE:CD1[1_565]	1.24	0.96
1:A:612:ASN:O	2:B:2149:ILE:CB[1_565]	1.24	0.96
1:A:658:PHE:CD2	2:B:2273:LEU:C[1_565]	1.24	0.96
2:B:1820:GLN:C	2:B:2227:LYS:NZ[1_565]	1.24	0.96
1:A:391:GLU:N	2:B:2018:SER:CA[1_565]	1.25	0.95
1:A:403:ASP:CG	2:B:2046:TRP:CE2[1_565]	1.25	0.95
1:A:424:LYS:CD	2:B:2024:PRO:CG[1_565]	1.25	0.95
1:A:521:PRO:CG	2:B:2237:THR:OG1[1_565]	1.25	0.95
1:A:564:ASN:CB	2:B:2189:GLN:N[1_565]	1.25	0.95
1:A:579:PHE:N	2:B:2147:ARG:N[1_565]	1.25	0.95
1:A:629:VAL:O	2:B:2257:VAL:O[1_565]	1.25	0.95
1:A:658:PHE:CA	2:B:2273:LEU:CG[1_565]	1.25	0.95
1:A:403:ASP:CA	2:B:2046:TRP:CZ2[1_565]	1.26	0.94
1:A:424:LYS:CG	2:B:2024:PRO:CB[1_565]	1.26	0.94
1:A:521:PRO:CD	2:B:2237:THR:CB[1_565]	1.26	0.94
1:A:531:ARG:N	2:B:2239:LYS:CG[1_565]	1.26	0.94
1:A:571:ARG:CB	2:B:2323:VAL:CB[1_565]	1.26	0.94
1:A:593:ARG:C	2:B:2053:LEU:N[1_565]	1.26	0.94
1:A:594:PHE:C	2:B:2052:ARG:C[1_565]	1.26	0.94
1:A:611:SER:CA	2:B:2150:ARG:CA[1_565]	1.26	0.94
1:A:613:ILE:CG2	2:B:2105:TYR:CA[1_565]	1.26	0.94
1:A:645:GLN:N	2:B:2107:LEU:CD2[1_565]	1.26	0.94
1:A:676:GLU:O	2:B:2301:LEU:CA[1_565]	1.26	0.94
1:A:712:ASP:CA	2:B:2255:MET:CB[1_565]	1.26	0.94
1:A:389:GLU:C	2:B:2019:ASN:N[1_565]	1.27	0.93
1:A:445:GLU:N	2:B:2294:VAL:CG1[1_565]	1.27	0.93
1:A:456:GLU:O	2:B:2236:LYS:NZ[1_565]	1.27	0.93
1:A:521:PRO:O	2:B:2331:LEU:CA[1_565]	1.27	0.93
1:A:527:ARG:CA	2:B:2304:ARG:CG[1_565]	1.27	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:THR:OG1	2:B:2301:LEU:O[1_565]	1.27	0.93
1:A:531:ARG:N	2:B:2239:LYS:CD[1_565]	1.27	0.93
1:A:566:ILE:O	2:B:2206:SER:O[1_565]	1.27	0.93
1:A:578:VAL:C	2:B:2146:ALA:C[1_565]	1.27	0.93
1:A:593:ARG:O	2:B:2053:LEU:C[1_565]	1.27	0.93
1:A:595:LEU:CA	2:B:2163:ARG:C[1_565]	1.27	0.93
1:A:601:VAL:CG2	2:B:2129:ASN:C[1_565]	1.27	0.93
1:A:602:GLN:NE2	2:B:2098:ILE:CG1[1_565]	1.27	0.93
1:A:630:CYS:SG	2:B:2257:VAL:CG2[1_565]	1.27	0.93
1:A:631:LEU:CD2	2:B:2313:TRP:CE3[1_565]	1.27	0.93
1:A:631:LEU:N	2:B:2257:VAL:CG1[1_565]	1.27	0.93
1:A:638:TYR:CD1	2:B:2240:VAL:CG2[1_565]	1.27	0.93
1:A:658:PHE:C	2:B:2273:LEU:CA[1_565]	1.27	0.93
1:A:666:ASP:CA	2:B:2275:PHE:CE2[1_565]	1.27	0.93
1:A:670:LEU:CD1	2:B:2299:PRO:CB[1_565]	1.27	0.93
1:A:419:ILE:CB	2:B:2049:LYS:CA[1_565]	1.28	0.92
1:A:428:PHE:CG	2:B:2172:ASN:CG[1_565]	1.28	0.92
1:A:452:LEU:CD2	2:B:2325:GLY:N[1_565]	1.28	0.92
1:A:566:ILE:CB	2:B:2206:SER:OG[1_565]	1.28	0.92
1:A:566:ILE:O	2:B:2206:SER:C[1_565]	1.28	0.92
1:A:571:ARG:CA	2:B:2323:VAL:CB[1_565]	1.28	0.92
1:A:576:PHE:CG	2:B:2298:ASP:OD1[1_565]	1.28	0.92
1:A:594:PHE:CZ	2:B:2052:ARG:NE[1_565]	1.28	0.92
1:A:601:VAL:O	2:B:2128:GLY:O[1_565]	1.28	0.92
1:A:602:GLN:NE2	2:B:2098:ILE:CG2[1_565]	1.28	0.92
1:A:604:GLU:CD	2:B:2125:VAL:CB[1_565]	1.28	0.92
1:A:639:ILE:CA	2:B:2299:PRO:O[1_565]	1.28	0.92
1:A:106:TRP:CZ2	1:A:472:PRO:CG[1_545]	1.29	0.91
1:A:439:ARG:O	4:D:2:BMA:C4[1_565]	1.29	0.91
1:A:467:ASN:OD1	2:B:2020:LYS:CG[1_565]	1.29	0.91
1:A:578:VAL:C	2:B:2146:ALA:CA[1_565]	1.29	0.91
1:A:588:THR:C	2:B:2085:LYS:CA[1_565]	1.29	0.91
1:A:616:SER:N	2:B:2147:ARG:CD[1_565]	1.29	0.91
1:A:621:VAL:CG1	2:B:2074:ASP:CB[1_565]	1.29	0.91
1:A:638:TYR:CE1	2:B:2240:VAL:CG2[1_565]	1.29	0.91
1:A:644:ALA:CB	2:B:2107:LEU:CB[1_565]	1.29	0.91
1:A:656:TYR:OH	2:B:2311:GLN:CG[1_565]	1.29	0.91
1:A:666:ASP:N	2:B:2275:PHE:CZ[1_565]	1.29	0.91
1:A:677:THR:C	2:B:2301:LEU:CD2[1_565]	1.29	0.91
1:A:679:PHE:N	2:B:2263:SER:C[1_565]	1.29	0.91
1:A:683:GLU:N	2:B:2310:PRO:O[1_565]	1.29	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:395:TYR:CZ	2:B:2075:LEU:CB[1_565]	1.30	0.90
1:A:452:LEU:CG	2:B:2325:GLY:N[1_565]	1.30	0.90
1:A:521:PRO:N	2:B:2331:LEU:N[1_565]	1.30	0.90
1:A:531:ARG:C	2:B:2239:LYS:CE[1_565]	1.30	0.90
1:A:557:GLU:CD	2:B:2235:GLN:N[1_565]	1.30	0.90
1:A:571:ARG:NH2	2:B:2322:GLU:CG[1_565]	1.30	0.90
1:A:613:ILE:CG1	2:B:2104:MET:O[1_565]	1.30	0.90
1:A:620:TYR:N	2:B:2076:LEU:CB[1_565]	1.30	0.90
1:A:640:LEU:N	2:B:2299:PRO:C[1_565]	1.30	0.90
1:A:640:LEU:CB	2:B:2300:PRO:CG[1_565]	1.30	0.90
1:A:688:TRP:CG	2:B:2282:VAL:CG1[1_565]	1.30	0.90
1:A:693:HIS:CA	2:B:2277:ASN:O[1_565]	1.30	0.90
1:A:402:PRO:C	2:B:2046:TRP:CH2[1_565]	1.31	0.89
1:A:413:ASN:OD1	2:B:2164:MET:CE[1_565]	1.31	0.89
1:A:439:ARG:CB	4:D:2:BMA:O5[1_565]	1.31	0.89
1:A:473:TYR:CD1	2:B:2021:CYS:CB[1_565]	1.31	0.89
1:A:525:ASP:O	2:B:2266:GLN:C[1_565]	1.31	0.89
1:A:541:ARG:NH2	2:B:2140:PHE:C[1_565]	1.31	0.89
1:A:545:SER:O	2:B:2169:CYS:N[1_565]	1.31	0.89
1:A:552:LEU:CG	2:B:2239:LYS:O[1_565]	1.31	0.89
1:A:553:ILE:CA	2:B:2327:GLU:CA[1_565]	1.31	0.89
1:A:579:PHE:CD1	2:B:2079:MET:N[1_565]	1.31	0.89
1:A:586:TYR:CZ	2:B:2022:GLN:C[1_565]	1.31	0.89
1:A:593:ARG:N	2:B:2053:LEU:CB[1_565]	1.31	0.89
1:A:594:PHE:CZ	2:B:2052:ARG:CZ[1_565]	1.31	0.89
1:A:603:LEU:CA	2:B:2101:PHE:CD2[1_565]	1.31	0.89
1:A:605:ASP:OD2	2:B:2153:PRO:C[1_565]	1.31	0.89
1:A:611:SER:CB	2:B:2151:LEU:N[1_565]	1.31	0.89
1:A:612:ASN:N	2:B:2149:ILE:C[1_565]	1.31	0.89
1:A:658:PHE:N	2:B:2273:LEU:CD1[1_565]	1.31	0.89
1:A:660:HIS:C	2:B:2272:THR:CB[1_565]	1.31	0.89
1:A:679:PHE:CB	2:B:2263:SER:C[1_565]	1.31	0.89
1:A:684:ASN:CB	2:B:2311:GLN:OE1[1_565]	1.31	0.89
1:A:393:TRP:C	2:B:2031:HIS:ND1[1_565]	1.32	0.88
1:A:424:LYS:CG	2:B:2017:TYR:CB[1_565]	1.32	0.88
1:A:428:PHE:CB	2:B:2172:ASN:OD1[1_565]	1.32	0.88
1:A:519:ASP:C	2:B:2329:GLN:C[1_565]	1.32	0.88
1:A:520:GLY:CA	2:B:2330:ASP:CA[1_565]	1.32	0.88
1:A:520:GLY:CA	2:B:2329:GLN:C[1_565]	1.32	0.88
1:A:546:GLY:CA	2:B:2169:CYS:C[1_565]	1.32	0.88
1:A:576:PHE:CD2	2:B:2298:ASP:OD2[1_565]	1.32	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:579:PHE:CZ	2:B:2078:PRO:C[1_565]	1.32	0.88
1:A:586:TYR:CE2	2:B:2023:THR:CA[1_565]	1.32	0.88
1:A:587:LEU:O	2:B:2084:ILE:C[1_565]	1.32	0.88
1:A:597:ASN:CB	2:B:2088:GLY:O[1_565]	1.32	0.88
1:A:609:GLN:N	2:B:2102:ILE:O[1_565]	1.32	0.88
1:A:612:ASN:N	2:B:2150:ARG:N[1_565]	1.32	0.88
1:A:627:LEU:CG	2:B:2295:ASN:OD1[1_565]	1.32	0.88
1:A:653:PHE:CE2	2:B:2274:PHE:CD1[1_565]	1.32	0.88
1:A:680:MET:CB	2:B:2262:ILE:N[1_565]	1.32	0.88
1:A:691:GLY:N	2:B:2276:GLN:NE2[1_565]	1.32	0.88
1:A:394:ASP:CA	2:B:2031:HIS:CG[1_565]	1.33	0.87
1:A:394:ASP:CG	2:B:2031:HIS:CB[1_565]	1.33	0.87
1:A:418:ARG:N	2:B:2048:PRO:CA[1_565]	1.33	0.87
1:A:528:CYS:C	2:B:2303:THR:O[1_565]	1.33	0.87
1:A:608:PHE:O	2:B:2151:LEU:CA[1_565]	1.33	0.87
1:A:609:GLN:OE1	2:B:2103:ILE:CB[1_565]	1.33	0.87
1:A:631:LEU:CD2	2:B:2313:TRP:CD2[1_565]	1.33	0.87
1:A:636:TYR:CB	2:B:2306:LEU:CD1[1_565]	1.33	0.87
1:A:640:LEU:N	2:B:2300:PRO:CD[1_565]	1.33	0.87
1:A:653:PHE:CG	2:B:2281:LYS:CA[1_565]	1.33	0.87
1:A:658:PHE:CE1	2:B:2274:PHE:C[1_565]	1.33	0.87
1:A:690:LEU:C	2:B:2276:GLN:NE2[1_565]	1.33	0.87
1:A:106:TRP:CH2	1:A:472:PRO:CG[1_545]	1.34	0.86
1:A:395:TYR:O	2:B:2076:LEU:CD1[1_565]	1.34	0.86
1:A:417:GLN:NE2	2:B:2050:LEU:N[1_565]	1.34	0.86
1:A:431:TYR:CE1	4:D:4:BMA:C3[1_565]	1.34	0.86
1:A:439:ARG:N	4:D:2:BMA:O6[1_565]	1.34	0.86
1:A:470:SER:OG	2:B:1993:ALA:O[1_565]	1.34	0.86
1:A:527:ARG:NH2	2:B:2233:ASP:OD1[1_565]	1.34	0.86
1:A:528:CYS:N	2:B:2303:THR:O[1_565]	1.34	0.86
1:A:541:ARG:NH2	2:B:2140:PHE:N[1_565]	1.34	0.86
1:A:579:PHE:CD1	2:B:2079:MET:CB[1_565]	1.34	0.86
1:A:584:SER:CA	2:B:2081:ILE:C[1_565]	1.34	0.86
1:A:587:LEU:C	2:B:2084:ILE:CA[1_565]	1.34	0.86
1:A:604:GLU:C	2:B:2101:PHE:C[1_565]	1.34	0.86
1:A:605:ASP:O	2:B:2102:ILE:CB[1_565]	1.34	0.86
1:A:634:VAL:CA	2:B:2308:ILE:CB[1_565]	1.34	0.86
1:A:636:TYR:CB	2:B:2306:LEU:CD2[1_565]	1.34	0.86
1:A:659:LYS:NZ	2:B:2270:GLN:C[1_565]	1.34	0.86
1:A:697:PHE:CA	2:B:2109:GLY:C[1_565]	1.34	0.86
1:A:706:LEU:CG	2:B:2282:VAL:C[1_565]	1.34	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:407:TYR:CA	2:B:2038:THR:CG2[1_565]	1.35	0.85
1:A:410:GLN:OE1	2:B:2070:TRP:CE2[1_565]	1.35	0.85
1:A:423:TYR:OH	2:B:2073:VAL:CG2[1_565]	1.35	0.85
1:A:525:ASP:O	2:B:2266:GLN:CB[1_565]	1.35	0.85
1:A:527:ARG:O	2:B:2236:LYS:O[1_565]	1.35	0.85
1:A:527:ARG:CZ	2:B:2233:ASP:OD2[1_565]	1.35	0.85
1:A:531:ARG:O	2:B:2239:LYS:CE[1_565]	1.35	0.85
1:A:544:ALA:C	2:B:2080:ILE:CA[1_565]	1.35	0.85
1:A:544:ALA:N	2:B:2080:ILE:CB[1_565]	1.35	0.85
1:A:553:ILE:C	2:B:2237:THR:O[1_565]	1.35	0.85
1:A:563:GLY:C	2:B:2189:GLN:C[1_565]	1.35	0.85
1:A:630:CYS:CA	2:B:2257:VAL:CB[1_565]	1.35	0.85
1:A:632:HIS:N	2:B:2310:PRO:CB[1_565]	1.35	0.85
1:A:637:TRP:CD1	2:B:2262:ILE:CD1[1_565]	1.35	0.85
1:A:651:VAL:CA	2:B:2276:GLN:C[1_565]	1.35	0.85
1:A:677:THR:OG1	2:B:2302:LEU:C[1_565]	1.35	0.85
1:A:712:ASP:CB	2:B:2255:MET:CB[1_565]	1.35	0.85
1:A:403:ASP:OD1	2:B:2046:TRP:CD2[1_565]	1.36	0.84
1:A:437:LYS:CA	4:D:4:BMA:C6[1_565]	1.36	0.84
1:A:521:PRO:CG	2:B:2237:THR:CB[1_565]	1.36	0.84
1:A:545:SER:CB	2:B:2168:GLY:CA[1_565]	1.36	0.84
1:A:545:SER:C	2:B:2169:CYS:N[1_565]	1.36	0.84
1:A:550:PRO:N	2:B:2173:SER:C[1_565]	1.36	0.84
1:A:555:TYR:C	2:B:2236:LYS:N[1_565]	1.36	0.84
1:A:561:GLN:CG	2:B:2235:GLN:NE2[1_565]	1.36	0.84
1:A:570:LYS:CG	2:B:2322:GLU:CA[1_565]	1.36	0.84
1:A:579:PHE:N	2:B:2146:ALA:O[1_565]	1.36	0.84
1:A:582:ASN:O	2:B:2140:PHE:CE1[1_565]	1.36	0.84
1:A:588:THR:OG1	2:B:2137:HIS:CA[1_565]	1.36	0.84
1:A:592:GLN:CD	2:B:2135:ILE:CA[1_565]	1.36	0.84
1:A:643:GLY:O	2:B:2145:ILE:CD1[1_565]	1.36	0.84
1:A:666:ASP:O	2:B:2275:PHE:CE2[1_565]	1.36	0.84
1:A:711:CYS:CA	2:B:2256:TYR:N[1_565]	1.36	0.84
1:A:391:GLU:O	2:B:2017:TYR:CG[1_565]	1.37	0.83
1:A:392:ASP:OD1	2:B:2017:TYR:CE2[1_565]	1.37	0.83
1:A:395:TYR:N	2:B:2034:ASP:OD2[1_565]	1.37	0.83
1:A:402:PRO:CG	2:B:2036:GLN:CD[1_565]	1.37	0.83
1:A:410:GLN:CA	2:B:2037:ILE:CG2[1_565]	1.37	0.83
1:A:473:TYR:CG	2:B:2021:CYS:CB[1_565]	1.37	0.83
1:A:566:ILE:N	2:B:2206:SER:OG[1_565]	1.37	0.83
1:A:567:MET:CE	2:B:2208:ALA:O[1_565]	1.37	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:PHE:CA	2:B:2053:LEU:N[1_565]	1.37	0.83
1:A:597:ASN:OD1	2:B:2089:ALA:CB[1_565]	1.37	0.83
1:A:598:PRO:CG	2:B:2087:GLN:CG[1_565]	1.37	0.83
1:A:611:SER:OG	2:B:2071:ILE:O[1_565]	1.37	0.83
1:A:613:ILE:CB	2:B:2105:TYR:CA[1_565]	1.37	0.83
1:A:629:VAL:CG1	2:B:2260:PHE:CE2[1_565]	1.37	0.83
1:A:634:VAL:CG1	2:B:2230:LEU:CA[1_565]	1.37	0.83
1:A:636:TYR:CA	2:B:2306:LEU:CG[1_565]	1.37	0.83
1:A:656:TYR:O	2:B:2280:VAL:CG2[1_565]	1.37	0.83
1:A:659:LYS:C	2:B:2272:THR:O[1_565]	1.37	0.83
1:A:662:MET:CB	2:B:2270:GLN:O[1_565]	1.37	0.83
1:A:697:PHE:CE1	2:B:2111:LYS:N[1_565]	1.37	0.83
1:A:405:ARG:C	2:B:2038:THR:O[1_565]	1.38	0.82
1:A:418:ARG:O	2:B:2036:GLN:CB[1_565]	1.38	0.82
1:A:438:THR:N	4:D:4:BMA:C6[1_565]	1.38	0.82
1:A:473:TYR:OH	2:B:2022:GLN:CA[1_565]	1.38	0.82
1:A:547:LEU:N	2:B:2170:ASP:CA[1_565]	1.38	0.82
1:A:552:LEU:C	2:B:2326:CYS:O[1_565]	1.38	0.82
1:A:567:MET:O	2:B:2190:ILE:CB[1_565]	1.38	0.82
1:A:605:ASP:C	2:B:2102:ILE:CG1[1_565]	1.38	0.82
1:A:627:LEU:CD1	2:B:2295:ASN:CG[1_565]	1.38	0.82
1:A:627:LEU:CG	2:B:2295:ASN:CG[1_565]	1.38	0.82
1:A:638:TYR:N	2:B:2297:LEU:CD1[1_565]	1.38	0.82
1:A:659:LYS:CE	2:B:2271:TRP:CG[1_565]	1.38	0.82
1:A:692:CYS:CA	2:B:2277:ASN:ND2[1_565]	1.38	0.82
1:A:106:TRP:CZ3	1:A:472:PRO:N[1_545]	1.39	0.81
1:A:411:TYR:N	2:B:2036:GLN:O[1_565]	1.39	0.81
1:A:473:TYR:CD1	2:B:2021:CYS:CA[1_565]	1.39	0.81
1:A:521:PRO:O	2:B:2331:LEU:CB[1_565]	1.39	0.81
1:A:552:LEU:N	2:B:2326:CYS:SG[1_565]	1.39	0.81
1:A:554:CYS:SG	2:B:2238:MET:CB[1_565]	1.39	0.81
1:A:587:LEU:CB	2:B:2138:ASN:O[1_565]	1.39	0.81
1:A:595:LEU:C	2:B:2163:ARG:CG[1_565]	1.39	0.81
1:A:595:LEU:N	2:B:2164:MET:N[1_565]	1.39	0.81
1:A:610:ALA:O	2:B:2150:ARG:CG[1_565]	1.39	0.81
1:A:616:SER:CB	2:B:2147:ARG:NE[1_565]	1.39	0.81
1:A:644:ALA:CA	2:B:2107:LEU:CG[1_565]	1.39	0.81
1:A:692:CYS:CA	2:B:2277:ASN:OD1[1_565]	1.39	0.81
1:A:706:LEU:CG	2:B:2282:VAL:O[1_565]	1.39	0.81
1:A:706:LEU:CD2	2:B:2283:PHE:N[1_565]	1.39	0.81
2:B:1826:THR:OG1	2:B:2270:GLN:NE2[1_565]	1.39	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:SER:CB	2:B:2038:THR:CB[1_565]	1.40	0.80
1:A:407:TYR:O	2:B:2070:TRP:CH2[1_565]	1.40	0.80
1:A:431:TYR:CE1	4:D:4:BMA:O2[1_565]	1.40	0.80
1:A:448:ILE:CD1	2:B:2079:MET:SD[1_565]	1.40	0.80
1:A:547:LEU:C	2:B:2170:ASP:C[1_565]	1.40	0.80
1:A:557:GLU:OE2	2:B:2234:PHE:C[1_565]	1.40	0.80
1:A:573:VAL:C	2:B:2241:THR:O[1_565]	1.40	0.80
1:A:587:LEU:CD2	2:B:2138:ASN:C[1_565]	1.40	0.80
1:A:589:GLU:OE2	2:B:1995:ILE:CB[1_565]	1.40	0.80
1:A:590:ASN:CB	2:B:2166:LEU:N[1_565]	1.40	0.80
1:A:591:ILE:CB	2:B:2086:THR:N[1_565]	1.40	0.80
1:A:592:GLN:CB	2:B:2135:ILE:CG2[1_565]	1.40	0.80
1:A:594:PHE:CA	2:B:2052:ARG:CA[1_565]	1.40	0.80
1:A:595:LEU:CG	2:B:2163:ARG:N[1_565]	1.40	0.80
1:A:601:VAL:CA	2:B:2129:ASN:CB[1_565]	1.40	0.80
1:A:601:VAL:CG2	2:B:2130:VAL:N[1_565]	1.40	0.80
1:A:602:GLN:N	2:B:2098:ILE:O[1_565]	1.40	0.80
1:A:631:LEU:CD1	2:B:2313:TRP:CE3[1_565]	1.40	0.80
1:A:636:TYR:CD2	2:B:2306:LEU:CB[1_565]	1.40	0.80
1:A:647:ASP:OD2	2:B:2111:LYS:CE[1_565]	1.40	0.80
1:A:708:VAL:CA	2:B:2258:LYS:C[1_565]	1.40	0.80
1:A:276:PHE:CE1	2:B:2332:TYR:C[1_565]	1.41	0.79
1:A:392:ASP:CB	2:B:2029:SER:C[1_565]	1.41	0.79
1:A:418:ARG:CA	2:B:2048:PRO:CB[1_565]	1.41	0.79
1:A:431:TYR:CE1	4:D:4:BMA:C2[1_565]	1.41	0.79
1:A:445:GLU:N	2:B:2294:VAL:CB[1_565]	1.41	0.79
1:A:473:TYR:CE2	2:B:2021:CYS:C[1_565]	1.41	0.79
1:A:550:PRO:O	2:B:2174:CYS:SG[1_565]	1.41	0.79
1:A:557:GLU:CA	2:B:2235:GLN:CD[1_565]	1.41	0.79
1:A:580:ASP:O	2:B:2081:ILE:CD1[1_565]	1.41	0.79
1:A:587:LEU:C	2:B:2084:ILE:N[1_565]	1.41	0.79
1:A:588:THR:O	2:B:2085:LYS:CA[1_565]	1.41	0.79
1:A:595:LEU:C	2:B:2163:ARG:CA[1_565]	1.41	0.79
1:A:598:PRO:CD	2:B:2087:GLN:CG[1_565]	1.41	0.79
1:A:601:VAL:O	2:B:2128:GLY:CA[1_565]	1.41	0.79
1:A:602:GLN:CG	2:B:2098:ILE:CB[1_565]	1.41	0.79
1:A:604:GLU:CB	2:B:2125:VAL:C[1_565]	1.41	0.79
1:A:614:MET:CB	2:B:2147:ARG:O[1_565]	1.41	0.79
1:A:614:MET:N	2:B:2148:TYR:CA[1_565]	1.41	0.79
1:A:628:SER:OG	2:B:2286:ASN:CA[1_565]	1.41	0.79
1:A:635:ALA:N	2:B:2308:ILE:CG1[1_565]	1.41	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:640:LEU:CG	2:B:2300:PRO:CB[1_565]	1.41	0.79
1:A:640:LEU:CD1	2:B:2300:PRO:CG[1_565]	1.41	0.79
1:A:652:PHE:N	2:B:2276:GLN:CB[1_565]	1.41	0.79
1:A:652:PHE:CB	2:B:2276:GLN:CB[1_565]	1.41	0.79
1:A:679:PHE:CD2	2:B:2307:ARG:N[1_565]	1.41	0.79
1:A:710:SER:N	2:B:2314:VAL:N[1_565]	1.41	0.79
1:A:276:PHE:CG	2:B:2332:TYR:O[1_565]	1.42	0.78
1:A:416:PRO:CA	2:B:2062:TRP:O[1_565]	1.42	0.78
1:A:423:TYR:CE1	2:B:2073:VAL:CG1[1_565]	1.42	0.78
1:A:546:GLY:N	2:B:2169:CYS:C[1_565]	1.42	0.78
1:A:567:MET:N	2:B:2206:SER:CA[1_565]	1.42	0.78
1:A:571:ARG:NH1	2:B:2323:VAL:O[1_565]	1.42	0.78
1:A:572:ASN:CG	2:B:2243:VAL:O[1_565]	1.42	0.78
1:A:603:LEU:CA	2:B:2101:PHE:CE2[1_565]	1.42	0.78
1:A:604:GLU:CD	2:B:2125:VAL:CG2[1_565]	1.42	0.78
1:A:613:ILE:CA	2:B:2148:TYR:O[1_565]	1.42	0.78
1:A:619:GLY:N	2:B:2077:ALA:N[1_565]	1.42	0.78
1:A:621:VAL:CG1	2:B:2074:ASP:CG[1_565]	1.42	0.78
1:A:630:CYS:CA	2:B:2257:VAL:CG1[1_565]	1.42	0.78
1:A:639:ILE:C	2:B:2299:PRO:O[1_565]	1.42	0.78
1:A:653:PHE:CB	2:B:2280:VAL:C[1_565]	1.42	0.78
1:A:658:PHE:CB	2:B:2273:LEU:C[1_565]	1.42	0.78
1:A:677:THR:N	2:B:2301:LEU:CD2[1_565]	1.42	0.78
1:A:681:SER:C	2:B:2309:HIS:CA[1_565]	1.42	0.78
1:A:690:LEU:CA	2:B:2276:GLN:NE2[1_565]	1.42	0.78
1:A:692:CYS:N	2:B:2277:ASN:ND2[1_565]	1.42	0.78
1:A:692:CYS:C	2:B:2277:ASN:CB[1_565]	1.42	0.78
2:B:1950:ASN:ND2	2:B:2111:LYS:CE[1_565]	1.42	0.78
1:A:388:ALA:O	2:B:2019:ASN:OD1[1_565]	1.43	0.77
1:A:409:SER:CA	2:B:2037:ILE:C[1_565]	1.43	0.77
1:A:416:PRO:O	2:B:2062:TRP:CA[1_565]	1.43	0.77
1:A:451:PRO:C	2:B:2175:SER:C[1_565]	1.43	0.77
1:A:576:PHE:CD2	2:B:2298:ASP:CG[1_565]	1.43	0.77
1:A:594:PHE:CA	2:B:2052:ARG:C[1_565]	1.43	0.77
1:A:595:LEU:CD1	2:B:2163:ARG:N[1_565]	1.43	0.77
1:A:595:LEU:CB	2:B:2163:ARG:O[1_565]	1.43	0.77
1:A:611:SER:N	2:B:2150:ARG:CB[1_565]	1.43	0.77
1:A:615:HIS:CE1	2:B:2106:SER:CB[1_565]	1.43	0.77
1:A:616:SER:CB	2:B:2147:ARG:CD[1_565]	1.43	0.77
1:A:619:GLY:O	2:B:2076:LEU:CB[1_565]	1.43	0.77
1:A:619:GLY:C	2:B:2076:LEU:C[1_565]	1.43	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:659:LYS:C	2:B:2272:THR:C[1_565]	1.43	0.77
1:A:712:ASP:OD1	2:B:2254:SER:C[1_565]	1.43	0.77
1:A:391:GLU:CB	2:B:2018:SER:CB[1_565]	1.44	0.76
1:A:395:TYR:CA	2:B:2076:LEU:CD2[1_565]	1.44	0.76
1:A:408:LYS:C	2:B:2037:ILE:C[1_565]	1.44	0.76
1:A:411:TYR:C	2:B:2072:LYS:N[1_565]	1.44	0.76
1:A:469:ALA:CA	2:B:2019:ASN:ND2[1_565]	1.44	0.76
1:A:522:THR:CB	2:B:2332:TYR:CD2[1_565]	1.44	0.76
1:A:572:ASN:CG	2:B:2243:VAL:C[1_565]	1.44	0.76
1:A:578:VAL:O	2:B:2146:ALA:CA[1_565]	1.44	0.76
1:A:579:PHE:CE2	2:B:2077:ALA:C[1_565]	1.44	0.76
1:A:580:ASP:O	2:B:2081:ILE:CG1[1_565]	1.44	0.76
1:A:582:ASN:O	2:B:2140:PHE:CG[1_565]	1.44	0.76
1:A:594:PHE:CE2	2:B:2052:ARG:NH1[1_565]	1.44	0.76
1:A:607:GLU:C	2:B:2152:HIS:CG[1_565]	1.44	0.76
1:A:614:MET:C	2:B:2147:ARG:C[1_565]	1.44	0.76
1:A:627:LEU:CD1	2:B:2295:ASN:CB[1_565]	1.44	0.76
1:A:635:ALA:N	2:B:2308:ILE:CB[1_565]	1.44	0.76
1:A:637:TRP:CD2	2:B:2262:ILE:CD1[1_565]	1.44	0.76
1:A:656:TYR:OH	2:B:2311:GLN:CB[1_565]	1.44	0.76
1:A:662:MET:CG	2:B:2267:ASP:OD2[1_565]	1.44	0.76
1:A:679:PHE:CD2	2:B:2307:ARG:CA[1_565]	1.44	0.76
1:A:680:MET:SD	2:B:2262:ILE:N[1_565]	1.44	0.76
1:A:692:CYS:CB	2:B:2277:ASN:ND2[1_565]	1.44	0.76
1:A:693:HIS:N	2:B:2277:ASN:CB[1_565]	1.44	0.76
1:A:708:VAL:CG1	2:B:2259:GLU:C[1_565]	1.44	0.76
1:A:396:ALA:CB	2:B:2035:PHE:CD1[1_565]	1.45	0.75
1:A:423:TYR:CE2	2:B:2166:LEU:CD1[1_565]	1.45	0.75
1:A:426:VAL:CG2	2:B:2019:ASN:CA[1_565]	1.45	0.75
1:A:437:LYS:O	4:D:4:BMA:O5[1_565]	1.45	0.75
1:A:520:GLY:O	2:B:2330:ASP:C[1_565]	1.45	0.75
1:A:548:ILE:CA	2:B:2172:ASN:N[1_565]	1.45	0.75
1:A:564:ASN:N	2:B:2188:ALA:C[1_565]	1.45	0.75
1:A:573:VAL:CA	2:B:2242:GLY:N[1_565]	1.45	0.75
1:A:582:ASN:CA	2:B:2140:PHE:CZ[1_565]	1.45	0.75
1:A:583:ARG:CA	2:B:2140:PHE:CD2[1_565]	1.45	0.75
1:A:592:GLN:CD	2:B:2135:ILE:CG2[1_565]	1.45	0.75
1:A:612:ASN:CA	2:B:2149:ILE:CB[1_565]	1.45	0.75
1:A:616:SER:CB	2:B:2147:ARG:CG[1_565]	1.45	0.75
1:A:617:ILE:CA	2:B:2147:ARG:NH1[1_565]	1.45	0.75
1:A:632:HIS:CG	2:B:2317:ILE:CD1[1_565]	1.45	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634:VAL:CG2	2:B:2308:ILE:O[1_565]	1.45	0.75
1:A:651:VAL:CB	2:B:2276:GLN:O[1_565]	1.45	0.75
1:A:660:HIS:N	2:B:2272:THR:CA[1_565]	1.45	0.75
1:A:696:ASP:O	2:B:2110:LYS:O[1_565]	1.45	0.75
1:A:276:PHE:CD1	2:B:2332:TYR:C[1_565]	1.46	0.74
1:A:403:ASP:OD1	2:B:2046:TRP:CD1[1_565]	1.46	0.74
1:A:521:PRO:O	2:B:2331:LEU:N[1_565]	1.46	0.74
1:A:532:TYR:N	2:B:2239:LYS:NZ[1_565]	1.46	0.74
1:A:553:ILE:CG1	2:B:2328:ALA:N[1_565]	1.46	0.74
1:A:564:ASN:C	2:B:2188:ALA:N[1_565]	1.46	0.74
1:A:564:ASN:O	2:B:2188:ALA:CB[1_565]	1.46	0.74
1:A:605:ASP:N	2:B:2101:PHE:O[1_565]	1.46	0.74
1:A:614:MET:O	2:B:2148:TYR:N[1_565]	1.46	0.74
1:A:630:CYS:O	2:B:2257:VAL:CG1[1_565]	1.46	0.74
1:A:633:GLU:OE2	2:B:2319:LEU:CD1[1_565]	1.46	0.74
1:A:634:VAL:CB	2:B:2308:ILE:O[1_565]	1.46	0.74
1:A:640:LEU:O	2:B:2298:ASP:O[1_565]	1.46	0.74
1:A:657:THR:C	2:B:2273:LEU:CG[1_565]	1.46	0.74
1:A:694:ASN:O	2:B:2110:LYS:NZ[1_565]	1.46	0.74
1:A:706:LEU:CB	2:B:2283:PHE:C[1_565]	1.46	0.74
1:A:395:TYR:CE1	2:B:2075:LEU:CB[1_565]	1.47	0.73
1:A:419:ILE:CG1	2:B:2049:LYS:N[1_565]	1.47	0.73
1:A:445:GLU:CB	2:B:2294:VAL:C[1_565]	1.47	0.73
1:A:448:ILE:CD1	2:B:2079:MET:CE[1_565]	1.47	0.73
1:A:520:GLY:C	2:B:2331:LEU:N[1_565]	1.47	0.73
1:A:520:GLY:CA	2:B:2329:GLN:O[1_565]	1.47	0.73
1:A:531:ARG:CA	2:B:2239:LYS:CD[1_565]	1.47	0.73
1:A:547:LEU:N	2:B:2170:ASP:O[1_565]	1.47	0.73
1:A:549:GLY:CA	2:B:2173:SER:CA[1_565]	1.47	0.73
1:A:552:LEU:CD1	2:B:2239:LYS:C[1_565]	1.47	0.73
1:A:577:SER:OG	2:B:2078:PRO:CA[1_565]	1.47	0.73
1:A:579:PHE:CD2	2:B:2077:ALA:O[1_565]	1.47	0.73
1:A:579:PHE:CA	2:B:2146:ALA:C[1_565]	1.47	0.73
1:A:579:PHE:CA	2:B:2146:ALA:O[1_565]	1.47	0.73
1:A:582:ASN:C	2:B:2140:PHE:CE2[1_565]	1.47	0.73
1:A:589:GLU:OE2	2:B:2085:LYS:NZ[1_565]	1.47	0.73
1:A:589:GLU:CB	2:B:2085:LYS:CD[1_565]	1.47	0.73
1:A:600:GLY:N	2:B:2097:TYR:CB[1_565]	1.47	0.73
1:A:658:PHE:CE1	2:B:2275:PHE:N[1_565]	1.47	0.73
1:A:679:PHE:CE1	2:B:2307:ARG:CD[1_565]	1.47	0.73
1:A:692:CYS:N	2:B:2277:ASN:OD1[1_565]	1.47	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:692:CYS:N	2:B:2277:ASN:CG[1_565]	1.47	0.73
1:A:693:HIS:N	2:B:2277:ASN:C[1_565]	1.47	0.73
1:A:706:LEU:CD1	2:B:2283:PHE:N[1_565]	1.47	0.73
1:A:706:LEU:CB	2:B:2284:GLN:N[1_565]	1.47	0.73
1:A:708:VAL:CG2	2:B:2259:GLU:CA[1_565]	1.47	0.73
1:A:418:ARG:N	2:B:2048:PRO:CD[1_565]	1.48	0.72
1:A:419:ILE:CG2	2:B:2049:LYS:CA[1_565]	1.48	0.72
1:A:421:ARG:CD	2:B:2072:LYS:O[1_565]	1.48	0.72
1:A:521:PRO:CA	2:B:2331:LEU:CA[1_565]	1.48	0.72
1:A:526:PRO:CD	2:B:2266:GLN:NE2[1_565]	1.48	0.72
1:A:530:THR:O	2:B:2302:LEU:CD1[1_565]	1.48	0.72
1:A:573:VAL:CG2	2:B:2241:THR:CB[1_565]	1.48	0.72
1:A:584:SER:O	2:B:2082:HIS:C[1_565]	1.48	0.72
1:A:586:TYR:C	2:B:2167:MET:CG[1_565]	1.48	0.72
1:A:588:THR:O	2:B:2085:LYS:CB[1_565]	1.48	0.72
1:A:617:ILE:N	2:B:2147:ARG:CZ[1_565]	1.48	0.72
1:A:635:ALA:N	2:B:2308:ILE:CA[1_565]	1.48	0.72
1:A:656:TYR:CZ	2:B:2311:GLN:CG[1_565]	1.48	0.72
1:A:677:THR:OG1	2:B:2302:LEU:CA[1_565]	1.48	0.72
1:A:679:PHE:O	2:B:2263:SER:CB[1_565]	1.48	0.72
1:A:416:PRO:CB	2:B:2062:TRP:O[1_565]	1.49	0.71
1:A:531:ARG:C	2:B:2239:LYS:CD[1_565]	1.49	0.71
1:A:533:TYR:CD1	2:B:2172:ASN:O[1_565]	1.49	0.71
1:A:548:ILE:CG2	2:B:2170:ASP:OD2[1_565]	1.49	0.71
1:A:552:LEU:CA	2:B:2326:CYS:C[1_565]	1.49	0.71
1:A:566:ILE:O	2:B:2206:SER:CA[1_565]	1.49	0.71
1:A:568:SER:CA	2:B:2190:ILE:CG1[1_565]	1.49	0.71
1:A:584:SER:C	2:B:2083:GLY:N[1_565]	1.49	0.71
1:A:587:LEU:C	2:B:2084:ILE:C[1_565]	1.49	0.71
1:A:594:PHE:O	2:B:2052:ARG:O[1_565]	1.49	0.71
1:A:594:PHE:O	2:B:2052:ARG:N[1_565]	1.49	0.71
1:A:600:GLY:N	2:B:2097:TYR:CG[1_565]	1.49	0.71
1:A:604:GLU:N	2:B:2126:PHE:CB[1_565]	1.49	0.71
1:A:607:GLU:CA	2:B:2152:HIS:ND1[1_565]	1.49	0.71
1:A:618:ASN:ND2	2:B:2296:SER:OG[1_565]	1.49	0.71
1:A:632:HIS:CE1	2:B:2225:ASN:O[1_565]	1.49	0.71
1:A:636:TYR:CD2	2:B:2306:LEU:C[1_565]	1.49	0.71
1:A:638:TYR:CZ	2:B:2240:VAL:CG2[1_565]	1.49	0.71
1:A:639:ILE:O	2:B:2300:PRO:C[1_565]	1.49	0.71
1:A:639:ILE:CB	2:B:2299:PRO:O[1_565]	1.49	0.71
1:A:667:THR:OG1	2:B:2278:GLY:O[1_565]	1.49	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:GLU:N	2:B:2019:ASN:CB[1_565]	1.50	0.70
1:A:410:GLN:OE1	2:B:2070:TRP:CD1[1_565]	1.50	0.70
1:A:428:PHE:CD2	2:B:2172:ASN:OD1[1_565]	1.50	0.70
1:A:521:PRO:CA	2:B:2331:LEU:N[1_565]	1.50	0.70
1:A:531:ARG:O	2:B:2239:LYS:CD[1_565]	1.50	0.70
1:A:541:ARG:CZ	2:B:2140:PHE:C[1_565]	1.50	0.70
1:A:550:PRO:CA	2:B:2173:SER:OG[1_565]	1.50	0.70
1:A:557:GLU:CG	2:B:2189:GLN:NE2[1_565]	1.50	0.70
1:A:570:LYS:CB	2:B:2322:GLU:C[1_565]	1.50	0.70
1:A:579:PHE:N	2:B:2146:ALA:CA[1_565]	1.50	0.70
1:A:585:TRP:CA	2:B:2082:HIS:CB[1_565]	1.50	0.70
1:A:593:ARG:O	2:B:2053:LEU:N[1_565]	1.50	0.70
1:A:610:ALA:C	2:B:2150:ARG:CA[1_565]	1.50	0.70
1:A:638:TYR:CG	2:B:2240:VAL:CG2[1_565]	1.50	0.70
1:A:639:ILE:CD1	2:B:2274:PHE:CZ[1_565]	1.50	0.70
1:A:391:GLU:C	2:B:2017:TYR:CE1[1_565]	1.51	0.69
1:A:392:ASP:N	2:B:2017:TYR:CD1[1_565]	1.51	0.69
1:A:395:TYR:CG	2:B:2074:ASP:C[1_565]	1.51	0.69
1:A:403:ASP:CB	2:B:2046:TRP:CE2[1_565]	1.51	0.69
1:A:421:ARG:CG	2:B:2035:PHE:O[1_565]	1.51	0.69
1:A:473:TYR:CZ	2:B:2021:CYS:O[1_565]	1.51	0.69
1:A:522:THR:CA	2:B:2331:LEU:CB[1_565]	1.51	0.69
1:A:525:ASP:C	2:B:2266:GLN:CA[1_565]	1.51	0.69
1:A:527:ARG:NH1	2:B:2305:TYR:OH[1_565]	1.51	0.69
1:A:547:LEU:C	2:B:2171:LEU:CA[1_565]	1.51	0.69
1:A:548:ILE:CA	2:B:2170:ASP:OD2[1_565]	1.51	0.69
1:A:553:ILE:O	2:B:2237:THR:C[1_565]	1.51	0.69
1:A:554:CYS:O	2:B:2236:LYS:CD[1_565]	1.51	0.69
1:A:555:TYR:CE1	2:B:2304:ARG:NH1[1_565]	1.51	0.69
1:A:563:GLY:O	2:B:2190:ILE:N[1_565]	1.51	0.69
1:A:597:ASN:OD1	2:B:2089:ALA:N[1_565]	1.51	0.69
1:A:597:ASN:CG	2:B:2089:ALA:CB[1_565]	1.51	0.69
1:A:613:ILE:CG1	2:B:2105:TYR:CA[1_565]	1.51	0.69
1:A:614:MET:CG	2:B:2073:VAL:O[1_565]	1.51	0.69
1:A:666:ASP:C	2:B:2275:PHE:CZ[1_565]	1.51	0.69
1:A:679:PHE:N	2:B:2264:SER:N[1_565]	1.51	0.69
1:A:139:GLN:NE2	1:A:504:LEU:CD2[1_545]	1.52	0.68
1:A:404:ASP:O	2:B:2039:ALA:C[1_565]	1.52	0.68
1:A:421:ARG:NE	2:B:2035:PHE:CB[1_565]	1.52	0.68
1:A:424:LYS:CA	2:B:2026:GLY:N[1_565]	1.52	0.68
1:A:426:VAL:O	2:B:2169:CYS:CB[1_565]	1.52	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:452:LEU:CD1	2:B:2325:GLY:N[1_565]	1.52	0.68
1:A:522:THR:CG2	2:B:2332:TYR:CD2[1_565]	1.52	0.68
1:A:528:CYS:C	2:B:2238:MET:O[1_565]	1.52	0.68
1:A:531:ARG:O	2:B:2239:LYS:NZ[1_565]	1.52	0.68
1:A:544:ALA:C	2:B:2080:ILE:O[1_565]	1.52	0.68
1:A:554:CYS:O	2:B:2236:LYS:CB[1_565]	1.52	0.68
1:A:572:ASN:N	2:B:2242:GLY:O[1_565]	1.52	0.68
1:A:589:GLU:C	2:B:2085:LYS:CB[1_565]	1.52	0.68
1:A:614:MET:SD	2:B:2073:VAL:C[1_565]	1.52	0.68
1:A:630:CYS:CB	2:B:2257:VAL:N[1_565]	1.52	0.68
1:A:636:TYR:CG	2:B:2306:LEU:CA[1_565]	1.52	0.68
1:A:656:TYR:CD1	2:B:2261:LEU:CD1[1_565]	1.52	0.68
1:A:710:SER:C	2:B:2256:TYR:O[1_565]	1.52	0.68
2:B:1820:GLN:N	2:B:2227:LYS:NZ[1_565]	1.52	0.68
1:A:394:ASP:OD2	2:B:2031:HIS:C[1_565]	1.53	0.67
1:A:409:SER:N	2:B:2038:THR:N[1_565]	1.53	0.67
1:A:411:TYR:CZ	2:B:2072:LYS:CD[1_565]	1.53	0.67
1:A:411:TYR:CA	2:B:2072:LYS:CA[1_565]	1.53	0.67
1:A:505:PRO:CG	2:B:1992:LYS:CE[1_565]	1.53	0.67
1:A:567:MET:C	2:B:2190:ILE:CD1[1_565]	1.53	0.67
1:A:569:ASP:OD2	2:B:2230:LEU:CG[1_565]	1.53	0.67
1:A:569:ASP:OD1	2:B:2208:ALA:CB[1_565]	1.53	0.67
1:A:592:GLN:CD	2:B:2135:ILE:CB[1_565]	1.53	0.67
1:A:593:ARG:N	2:B:2053:LEU:CD1[1_565]	1.53	0.67
1:A:595:LEU:CD2	2:B:2162:LEU:CG[1_565]	1.53	0.67
1:A:608:PHE:C	2:B:2151:LEU:CA[1_565]	1.53	0.67
1:A:609:GLN:CA	2:B:2103:ILE:CA[1_565]	1.53	0.67
1:A:644:ALA:CA	2:B:2107:LEU:CB[1_565]	1.53	0.67
1:A:653:PHE:N	2:B:2276:GLN:CG[1_565]	1.53	0.67
1:A:692:CYS:C	2:B:2277:ASN:OD1[1_565]	1.53	0.67
1:A:406:SER:CA	2:B:2038:THR:CA[1_565]	1.54	0.66
1:A:413:ASN:N	2:B:2071:ILE:CD1[1_565]	1.54	0.66
1:A:519:ASP:O	2:B:2329:GLN:C[1_565]	1.54	0.66
1:A:522:THR:N	2:B:2331:LEU:CA[1_565]	1.54	0.66
1:A:543:LEU:CD2	2:B:2145:ILE:CG2[1_565]	1.54	0.66
1:A:546:GLY:CA	2:B:2170:ASP:N[1_565]	1.54	0.66
1:A:550:PRO:C	2:B:2174:CYS:SG[1_565]	1.54	0.66
1:A:556:LYS:C	2:B:2235:GLN:CB[1_565]	1.54	0.66
1:A:578:VAL:CB	2:B:2107:LEU:N[1_565]	1.54	0.66
1:A:584:SER:N	2:B:2081:ILE:O[1_565]	1.54	0.66
1:A:584:SER:C	2:B:2082:HIS:CA[1_565]	1.54	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:589:GLU:CA	2:B:2085:LYS:CE[1_565]	1.54	0.66
1:A:594:PHE:O	2:B:2052:ARG:C[1_565]	1.54	0.66
1:A:595:LEU:CB	2:B:2163:ARG:CA[1_565]	1.54	0.66
1:A:597:ASN:C	2:B:2088:GLY:C[1_565]	1.54	0.66
1:A:597:ASN:ND2	2:B:2089:ALA:CB[1_565]	1.54	0.66
1:A:602:GLN:CD	2:B:2098:ILE:CG1[1_565]	1.54	0.66
1:A:615:HIS:N	2:B:2148:TYR:CG[1_565]	1.54	0.66
1:A:636:TYR:CG	2:B:2306:LEU:CG[1_565]	1.54	0.66
1:A:682:MET:SD	2:B:2260:PHE:C[1_565]	1.54	0.66
1:A:682:MET:O	2:B:2310:PRO:N[1_565]	1.54	0.66
1:A:683:GLU:CD	2:B:2226:PRO:O[1_565]	1.54	0.66
1:A:693:HIS:CB	2:B:2277:ASN:C[1_565]	1.54	0.66
1:A:702:MET:N	2:B:2148:TYR:OH[1_565]	1.54	0.66
1:A:706:LEU:CG	2:B:2283:PHE:N[1_565]	1.54	0.66
1:A:708:VAL:CB	2:B:2259:GLU:CA[1_565]	1.54	0.66
1:A:428:PHE:CD1	2:B:2172:ASN:OD1[1_565]	1.55	0.65
1:A:467:ASN:CG	2:B:2020:LYS:CB[1_565]	1.55	0.65
1:A:520:GLY:C	2:B:2330:ASP:C[1_565]	1.55	0.65
1:A:530:THR:N	2:B:2302:LEU:CG[1_565]	1.55	0.65
1:A:540:GLU:O	2:B:2080:ILE:CG2[1_565]	1.55	0.65
1:A:543:LEU:O	2:B:2080:ILE:N[1_565]	1.55	0.65
1:A:549:GLY:N	2:B:2172:ASN:C[1_565]	1.55	0.65
1:A:553:ILE:CD1	2:B:2328:ALA:CA[1_565]	1.55	0.65
1:A:577:SER:CB	2:B:2078:PRO:CG[1_565]	1.55	0.65
1:A:582:ASN:C	2:B:2140:PHE:CD2[1_565]	1.55	0.65
1:A:612:ASN:CA	2:B:2149:ILE:C[1_565]	1.55	0.65
1:A:614:MET:CE	2:B:2073:VAL:CA[1_565]	1.55	0.65
1:A:627:LEU:CD2	2:B:2295:ASN:CB[1_565]	1.55	0.65
1:A:656:TYR:C	2:B:2280:VAL:CB[1_565]	1.55	0.65
1:A:681:SER:CA	2:B:2309:HIS:ND1[1_565]	1.55	0.65
1:A:711:CYS:O	2:B:2255:MET:CA[1_565]	1.55	0.65
1:A:390:GLU:N	2:B:1936:GLN:CG[1_565]	1.56	0.64
1:A:404:ASP:CB	2:B:2039:ALA:O[1_565]	1.56	0.64
1:A:521:PRO:C	2:B:2331:LEU:N[1_565]	1.56	0.64
1:A:541:ARG:N	2:B:2143:PRO:CG[1_565]	1.56	0.64
1:A:541:ARG:CA	2:B:2143:PRO:CB[1_565]	1.56	0.64
1:A:574:ILE:CG1	2:B:2296:SER:C[1_565]	1.56	0.64
1:A:581:GLU:O	2:B:2140:PHE:CE2[1_565]	1.56	0.64
1:A:603:LEU:CD1	2:B:2101:PHE:CZ[1_565]	1.56	0.64
1:A:621:VAL:CG1	2:B:2074:ASP:OD2[1_565]	1.56	0.64
1:A:627:LEU:CD1	2:B:2295:ASN:CA[1_565]	1.56	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:ILE:O	2:B:2300:PRO:O[1_565]	1.56	0.64
1:A:658:PHE:CE2	2:B:2273:LEU:O[1_565]	1.56	0.64
1:A:659:LYS:NZ	2:B:2270:GLN:CA[1_565]	1.56	0.64
1:A:679:PHE:CE1	2:B:2307:ARG:CB[1_565]	1.56	0.64
1:A:679:PHE:CA	2:B:2263:SER:CA[1_565]	1.56	0.64
1:A:682:MET:C	2:B:2310:PRO:CA[1_565]	1.56	0.64
1:A:682:MET:N	2:B:2309:HIS:O[1_565]	1.56	0.64
1:A:692:CYS:CA	2:B:2277:ASN:CB[1_565]	1.56	0.64
1:A:708:VAL:CB	2:B:2259:GLU:CB[1_565]	1.56	0.64
1:A:390:GLU:N	2:B:2019:ASN:N[1_565]	1.57	0.63
1:A:410:GLN:CA	2:B:2037:ILE:CB[1_565]	1.57	0.63
1:A:467:ASN:CB	2:B:2020:LYS:CD[1_565]	1.57	0.63
1:A:520:GLY:C	2:B:2330:ASP:CA[1_565]	1.57	0.63
1:A:581:GLU:CA	2:B:2081:ILE:CD1[1_565]	1.57	0.63
1:A:584:SER:CB	2:B:2167:MET:O[1_565]	1.57	0.63
1:A:594:PHE:CD2	2:B:2052:ARG:CB[1_565]	1.57	0.63
1:A:611:SER:O	2:B:2149:ILE:O[1_565]	1.57	0.63
1:A:637:TRP:CD1	2:B:2262:ILE:CG1[1_565]	1.57	0.63
1:A:637:TRP:CZ3	2:B:2243:VAL:CG2[1_565]	1.57	0.63
1:A:656:TYR:N	2:B:2280:VAL:CG2[1_565]	1.57	0.63
1:A:658:PHE:C	2:B:2273:LEU:N[1_565]	1.57	0.63
1:A:693:HIS:N	2:B:2277:ASN:CA[1_565]	1.57	0.63
1:A:713:LYS:O	2:B:2203:TRP:CZ3[1_565]	1.57	0.63
1:A:393:TRP:O	2:B:2031:HIS:NE2[1_565]	1.58	0.62
1:A:403:ASP:OD1	2:B:2046:TRP:CG[1_565]	1.58	0.62
1:A:416:PRO:C	2:B:2062:TRP:N[1_565]	1.58	0.62
1:A:418:ARG:N	2:B:2048:PRO:CG[1_565]	1.58	0.62
1:A:439:ARG:O	4:D:2:BMA:C5[1_565]	1.58	0.62
1:A:452:LEU:CD2	2:B:2325:GLY:CA[1_565]	1.58	0.62
1:A:473:TYR:CZ	2:B:2022:GLN:N[1_565]	1.58	0.62
1:A:528:CYS:O	2:B:2238:MET:O[1_565]	1.58	0.62
1:A:529:LEU:CD2	2:B:2329:GLN:NE2[1_565]	1.58	0.62
1:A:548:ILE:CB	2:B:2170:ASP:OD2[1_565]	1.58	0.62
1:A:552:LEU:CB	2:B:2326:CYS:N[1_565]	1.58	0.62
1:A:555:TYR:N	2:B:2237:THR:N[1_565]	1.58	0.62
1:A:591:ILE:CD1	2:B:2086:THR:O[1_565]	1.58	0.62
1:A:593:ARG:N	2:B:2053:LEU:CD2[1_565]	1.58	0.62
1:A:604:GLU:CB	2:B:2126:PHE:CA[1_565]	1.58	0.62
1:A:605:ASP:O	2:B:2102:ILE:CA[1_565]	1.58	0.62
1:A:639:ILE:C	2:B:2300:PRO:CA[1_565]	1.58	0.62
1:A:653:PHE:CA	2:B:2280:VAL:O[1_565]	1.58	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:683:GLU:N	2:B:2310:PRO:C[1_565]	1.58	0.62
1:A:683:GLU:CG	2:B:2226:PRO:C[1_565]	1.58	0.62
1:A:697:PHE:CZ	2:B:2111:LYS:CD[1_565]	1.58	0.62
1:A:708:VAL:CB	2:B:2259:GLU:N[1_565]	1.58	0.62
1:A:106:TRP:CZ2	1:A:472:PRO:CD[1_545]	1.59	0.61
1:A:390:GLU:C	2:B:2018:SER:N[1_565]	1.59	0.61
1:A:395:TYR:CD1	2:B:2075:LEU:C[1_565]	1.59	0.61
1:A:421:ARG:CZ	2:B:2035:PHE:C[1_565]	1.59	0.61
1:A:445:GLU:N	2:B:2294:VAL:CG2[1_565]	1.59	0.61
1:A:452:LEU:CA	2:B:2174:CYS:O[1_565]	1.59	0.61
1:A:555:TYR:C	2:B:2236:LYS:CA[1_565]	1.59	0.61
1:A:555:TYR:O	2:B:2236:LYS:N[1_565]	1.59	0.61
1:A:557:GLU:CB	2:B:2235:GLN:CD[1_565]	1.59	0.61
1:A:557:GLU:OE2	2:B:2235:GLN:N[1_565]	1.59	0.61
1:A:570:LYS:CG	2:B:2321:MET:O[1_565]	1.59	0.61
1:A:573:VAL:CG1	2:B:2241:THR:C[1_565]	1.59	0.61
1:A:578:VAL:CG1	2:B:2106:SER:C[1_565]	1.59	0.61
1:A:581:GLU:OE1	2:B:2166:LEU:CD2[1_565]	1.59	0.61
1:A:583:ARG:C	2:B:2081:ILE:O[1_565]	1.59	0.61
1:A:584:SER:C	2:B:2082:HIS:C[1_565]	1.59	0.61
1:A:590:ASN:CG	2:B:2165:GLU:C[1_565]	1.59	0.61
1:A:591:ILE:CD1	2:B:2086:THR:C[1_565]	1.59	0.61
1:A:593:ARG:NH1	2:B:2015:LEU:CD2[1_565]	1.59	0.61
1:A:594:PHE:C	2:B:2052:ARG:CA[1_565]	1.59	0.61
1:A:601:VAL:N	2:B:2129:ASN:CB[1_565]	1.59	0.61
1:A:607:GLU:O	2:B:2152:HIS:CD2[1_565]	1.59	0.61
1:A:659:LYS:N	2:B:2273:LEU:CA[1_565]	1.59	0.61
1:A:679:PHE:O	2:B:2263:SER:N[1_565]	1.59	0.61
1:A:679:PHE:CE2	2:B:2307:ARG:C[1_565]	1.59	0.61
1:A:697:PHE:CD1	2:B:2111:LYS:N[1_565]	1.59	0.61
1:A:709:SER:N	2:B:2258:LYS:CB[1_565]	1.59	0.61
1:A:390:GLU:CD	2:B:1993:ALA:CB[1_565]	1.60	0.60
1:A:402:PRO:C	2:B:2046:TRP:CZ3[1_565]	1.60	0.60
1:A:406:SER:C	2:B:2038:THR:CG2[1_565]	1.60	0.60
1:A:424:LYS:CA	2:B:2025:LEU:N[1_565]	1.60	0.60
1:A:439:ARG:CB	4:D:2:BMA:C5[1_565]	1.60	0.60
1:A:467:ASN:OD1	2:B:2020:LYS:CD[1_565]	1.60	0.60
1:A:527:ARG:C	2:B:2304:ARG:CB[1_565]	1.60	0.60
1:A:552:LEU:C	2:B:2327:GLU:CA[1_565]	1.60	0.60
1:A:558:SER:N	2:B:2235:GLN:OE1[1_565]	1.60	0.60
1:A:569:ASP:CA	2:B:2180:MET:CE[1_565]	1.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:571:ARG:CB	2:B:2323:VAL:CA[1_565]	1.60	0.60
1:A:586:TYR:CZ	2:B:2023:THR:CA[1_565]	1.60	0.60
1:A:589:GLU:CB	2:B:2085:LYS:NZ[1_565]	1.60	0.60
1:A:593:ARG:CA	2:B:2053:LEU:CG[1_565]	1.60	0.60
1:A:597:ASN:OD1	2:B:2089:ALA:CA[1_565]	1.60	0.60
1:A:601:VAL:CG2	2:B:2129:ASN:CA[1_565]	1.60	0.60
1:A:604:GLU:CG	2:B:2126:PHE:N[1_565]	1.60	0.60
1:A:616:SER:C	2:B:2147:ARG:CD[1_565]	1.60	0.60
1:A:619:GLY:CA	2:B:2077:ALA:N[1_565]	1.60	0.60
1:A:638:TYR:CB	2:B:2240:VAL:CB[1_565]	1.60	0.60
1:A:652:PHE:N	2:B:2277:ASN:N[1_565]	1.60	0.60
1:A:681:SER:N	2:B:2309:HIS:CB[1_565]	1.60	0.60
1:A:710:SER:OG	2:B:2313:TRP:CG[1_565]	1.60	0.60
2:B:1820:GLN:CB	2:B:2227:LYS:NZ[1_565]	1.60	0.60
1:A:390:GLU:C	2:B:2018:SER:OG[1_565]	1.61	0.59
1:A:392:ASP:OD2	2:B:2029:SER:N[1_565]	1.61	0.59
1:A:418:ARG:C	2:B:2048:PRO:CB[1_565]	1.61	0.59
1:A:419:ILE:CB	2:B:2049:LYS:N[1_565]	1.61	0.59
1:A:437:LYS:O	4:D:4:BMA:C6[1_565]	1.61	0.59
1:A:437:LYS:O	4:D:4:BMA:C4[1_565]	1.61	0.59
1:A:456:GLU:N	2:B:2236:LYS:NZ[1_565]	1.61	0.59
1:A:541:ARG:O	2:B:2082:HIS:CG[1_565]	1.61	0.59
1:A:550:PRO:N	2:B:2174:CYS:N[1_565]	1.61	0.59
1:A:550:PRO:O	2:B:2174:CYS:CA[1_565]	1.61	0.59
1:A:555:TYR:CA	2:B:2236:LYS:CB[1_565]	1.61	0.59
1:A:565:GLN:N	2:B:2187:ASP:O[1_565]	1.61	0.59
1:A:576:PHE:CB	2:B:2298:ASP:OD2[1_565]	1.61	0.59
1:A:597:ASN:ND2	2:B:2090:ARG:N[1_565]	1.61	0.59
1:A:602:GLN:CB	2:B:2098:ILE:C[1_565]	1.61	0.59
1:A:602:GLN:CG	2:B:2098:ILE:C[1_565]	1.61	0.59
1:A:629:VAL:C	2:B:2257:VAL:O[1_565]	1.61	0.59
1:A:653:PHE:CE1	2:B:2281:LYS:CB[1_565]	1.61	0.59
2:B:1826:THR:CB	2:B:2270:GLN:NE2[1_565]	1.61	0.59
1:A:390:GLU:N	2:B:2018:SER:C[1_565]	1.62	0.58
1:A:403:ASP:N	2:B:2046:TRP:CH2[1_565]	1.62	0.58
1:A:417:GLN:N	2:B:2062:TRP:N[1_565]	1.62	0.58
1:A:418:ARG:CA	2:B:2048:PRO:N[1_565]	1.62	0.58
1:A:445:GLU:CA	2:B:2294:VAL:CG2[1_565]	1.62	0.58
1:A:467:ASN:ND2	2:B:2020:LYS:CD[1_565]	1.62	0.58
1:A:546:GLY:O	2:B:2170:ASP:N[1_565]	1.62	0.58
1:A:547:LEU:N	2:B:2170:ASP:N[1_565]	1.62	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:555:TYR:CA	2:B:2236:LYS:N[1_565]	1.62	0.58
1:A:557:GLU:C	2:B:2235:GLN:OE1[1_565]	1.62	0.58
1:A:570:LYS:CE	2:B:2180:MET:CB[1_565]	1.62	0.58
1:A:572:ASN:O	2:B:2242:GLY:CA[1_565]	1.62	0.58
1:A:578:VAL:CG2	2:B:2107:LEU:C[1_565]	1.62	0.58
1:A:583:ARG:N	2:B:2140:PHE:CE2[1_565]	1.62	0.58
1:A:586:TYR:C	2:B:2167:MET:CB[1_565]	1.62	0.58
1:A:595:LEU:CD2	2:B:2162:LEU:C[1_565]	1.62	0.58
1:A:598:PRO:CA	2:B:2088:GLY:N[1_565]	1.62	0.58
1:A:600:GLY:CA	2:B:2097:TYR:CB[1_565]	1.62	0.58
1:A:612:ASN:O	2:B:2149:ILE:CA[1_565]	1.62	0.58
1:A:620:TYR:N	2:B:2076:LEU:CA[1_565]	1.62	0.58
1:A:630:CYS:CB	2:B:2257:VAL:C[1_565]	1.62	0.58
1:A:633:GLU:O	2:B:2310:PRO:CD[1_565]	1.62	0.58
1:A:651:VAL:C	2:B:2276:GLN:CA[1_565]	1.62	0.58
1:A:656:TYR:CE1	2:B:2261:LEU:CG[1_565]	1.62	0.58
1:A:680:MET:CG	2:B:2261:LEU:C[1_565]	1.62	0.58
1:A:682:MET:C	2:B:2310:PRO:O[1_565]	1.62	0.58
1:A:697:PHE:CG	2:B:2110:LYS:N[1_565]	1.62	0.58
1:A:700:ARG:CG	2:B:2112:TRP:NE1[1_565]	1.62	0.58
1:A:712:ASP:N	2:B:2255:MET:CB[1_565]	1.62	0.58
1:A:713:LYS:CA	2:B:2248:VAL:CG1[1_565]	1.62	0.58
1:A:424:LYS:C	2:B:2024:PRO:C[1_565]	1.63	0.57
1:A:425:LYS:CG	2:B:2025:LEU:CD2[1_565]	1.63	0.57
1:A:431:TYR:CZ	4:D:4:BMA:O3[1_565]	1.63	0.57
1:A:526:PRO:CG	2:B:2266:GLN:OE1[1_565]	1.63	0.57
1:A:541:ARG:O	2:B:2082:HIS:CE1[1_565]	1.63	0.57
1:A:548:ILE:N	2:B:2170:ASP:OD2[1_565]	1.63	0.57
1:A:554:CYS:C	2:B:2236:LYS:CG[1_565]	1.63	0.57
1:A:555:TYR:C	2:B:2235:GLN:C[1_565]	1.63	0.57
1:A:566:ILE:O	2:B:2206:SER:CB[1_565]	1.63	0.57
1:A:570:LYS:CG	2:B:2322:GLU:N[1_565]	1.63	0.57
1:A:571:ARG:CB	2:B:2323:VAL:C[1_565]	1.63	0.57
1:A:585:TRP:O	2:B:2022:GLN:CD[1_565]	1.63	0.57
1:A:586:TYR:CD2	2:B:2023:THR:C[1_565]	1.63	0.57
1:A:590:ASN:CA	2:B:2165:GLU:CB[1_565]	1.63	0.57
1:A:602:GLN:CG	2:B:2098:ILE:CA[1_565]	1.63	0.57
1:A:604:GLU:CD	2:B:2125:VAL:CA[1_565]	1.63	0.57
1:A:608:PHE:CA	2:B:2151:LEU:CA[1_565]	1.63	0.57
1:A:627:LEU:CD1	2:B:2295:ASN:OD1[1_565]	1.63	0.57
1:A:632:HIS:CA	2:B:2310:PRO:CG[1_565]	1.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:TYR:CE2	2:B:2305:TYR:C[1_565]	1.63	0.57
1:A:657:THR:C	2:B:2273:LEU:CD2[1_565]	1.63	0.57
1:A:693:HIS:CD2	2:B:2278:GLY:CA[1_565]	1.63	0.57
1:A:709:SER:C	2:B:2313:TRP:C[1_565]	1.63	0.57
1:A:710:SER:O	2:B:2256:TYR:O[1_565]	1.63	0.57
1:A:424:LYS:CE	2:B:2015:LEU:CD1[1_565]	1.64	0.56
1:A:439:ARG:N	4:D:4:BMA:C1[1_565]	1.64	0.56
1:A:520:GLY:O	2:B:2331:LEU:N[1_565]	1.64	0.56
1:A:527:ARG:CB	2:B:2304:ARG:CB[1_565]	1.64	0.56
1:A:559:VAL:CG2	2:B:2186:SER:OG[1_565]	1.64	0.56
1:A:567:MET:O	2:B:2190:ILE:CG2[1_565]	1.64	0.56
1:A:569:ASP:CG	2:B:2230:LEU:CD2[1_565]	1.64	0.56
1:A:573:VAL:CB	2:B:2241:THR:CB[1_565]	1.64	0.56
1:A:589:GLU:CG	2:B:2085:LYS:CE[1_565]	1.64	0.56
1:A:591:ILE:CD1	2:B:2086:THR:CA[1_565]	1.64	0.56
1:A:594:PHE:CG	2:B:2052:ARG:CG[1_565]	1.64	0.56
1:A:596:PRO:C	2:B:2163:ARG:NE[1_565]	1.64	0.56
1:A:627:LEU:CG	2:B:2295:ASN:CB[1_565]	1.64	0.56
1:A:639:ILE:CG2	2:B:2297:LEU:CB[1_565]	1.64	0.56
1:A:656:TYR:CB	2:B:2261:LEU:CD2[1_565]	1.64	0.56
1:A:657:THR:O	2:B:2273:LEU:CD1[1_565]	1.64	0.56
1:A:659:LYS:NZ	2:B:2271:TRP:N[1_565]	1.64	0.56
1:A:680:MET:CB	2:B:2262:ILE:C[1_565]	1.64	0.56
1:A:692:CYS:O	2:B:2110:LYS:NZ[1_565]	1.64	0.56
1:A:389:GLU:O	2:B:2019:ASN:N[1_565]	1.65	0.55
1:A:416:PRO:CB	2:B:2062:TRP:N[1_565]	1.65	0.55
1:A:421:ARG:N	2:B:2035:PHE:N[1_565]	1.65	0.55
1:A:455:GLY:N	2:B:2327:GLU:OE2[1_565]	1.65	0.55
1:A:467:ASN:OD1	2:B:2020:LYS:CB[1_565]	1.65	0.55
1:A:553:ILE:CG2	2:B:2328:ALA:O[1_565]	1.65	0.55
1:A:555:TYR:CB	2:B:2236:LYS:CA[1_565]	1.65	0.55
1:A:567:MET:SD	2:B:2209:ARG:NH1[1_565]	1.65	0.55
1:A:572:ASN:C	2:B:2242:GLY:N[1_565]	1.65	0.55
1:A:574:ILE:CB	2:B:2297:LEU:N[1_565]	1.65	0.55
1:A:582:ASN:C	2:B:2140:PHE:CZ[1_565]	1.65	0.55
1:A:584:SER:C	2:B:2082:HIS:N[1_565]	1.65	0.55
1:A:585:TRP:N	2:B:2082:HIS:CA[1_565]	1.65	0.55
1:A:590:ASN:CA	2:B:2165:GLU:CA[1_565]	1.65	0.55
1:A:596:PRO:CA	2:B:2163:ARG:CD[1_565]	1.65	0.55
1:A:597:ASN:CB	2:B:2089:ALA:CA[1_565]	1.65	0.55
1:A:603:LEU:CG	2:B:2138:ASN:ND2[1_565]	1.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:605:ASP:OD2	2:B:2154:THR:N[1_565]	1.65	0.55
1:A:616:SER:C	2:B:2147:ARG:NH1[1_565]	1.65	0.55
1:A:631:LEU:O	2:B:2317:ILE:CG2[1_565]	1.65	0.55
1:A:639:ILE:N	2:B:2301:LEU:N[1_565]	1.65	0.55
1:A:652:PHE:O	2:B:2279:LYS:O[1_565]	1.65	0.55
1:A:682:MET:O	2:B:2310:PRO:CB[1_565]	1.65	0.55
1:A:684:ASN:N	2:B:2311:GLN:CA[1_565]	1.65	0.55
1:A:684:ASN:N	2:B:2311:GLN:CB[1_565]	1.65	0.55
1:A:691:GLY:N	2:B:2276:GLN:CD[1_565]	1.65	0.55
1:A:697:PHE:CA	2:B:2110:LYS:CA[1_565]	1.65	0.55
1:A:708:VAL:C	2:B:2258:LYS:CB[1_565]	1.65	0.55
1:A:710:SER:N	2:B:2313:TRP:CB[1_565]	1.65	0.55
1:A:710:SER:OG	2:B:2313:TRP:NE1[1_565]	1.65	0.55
1:A:411:TYR:CB	2:B:2072:LYS:CA[1_565]	1.66	0.54
1:A:416:PRO:O	2:B:2062:TRP:CG[1_565]	1.66	0.54
1:A:451:PRO:CA	2:B:2175:SER:O[1_565]	1.66	0.54
1:A:456:GLU:C	2:B:2236:LYS:CE[1_565]	1.66	0.54
1:A:545:SER:O	2:B:2169:CYS:CA[1_565]	1.66	0.54
1:A:548:ILE:N	2:B:2172:ASN:N[1_565]	1.66	0.54
1:A:552:LEU:O	2:B:2326:CYS:O[1_565]	1.66	0.54
1:A:579:PHE:CZ	2:B:2078:PRO:O[1_565]	1.66	0.54
1:A:601:VAL:O	2:B:2129:ASN:N[1_565]	1.66	0.54
1:A:601:VAL:N	2:B:2129:ASN:CA[1_565]	1.66	0.54
1:A:608:PHE:CG	2:B:2151:LEU:CD2[1_565]	1.66	0.54
1:A:609:GLN:CD	2:B:2103:ILE:N[1_565]	1.66	0.54
1:A:634:VAL:N	2:B:2308:ILE:CG2[1_565]	1.66	0.54
1:A:658:PHE:O	2:B:2273:LEU:N[1_565]	1.66	0.54
1:A:702:MET:CB	2:B:2108:ASP:O[1_565]	1.66	0.54
1:A:708:VAL:N	2:B:2258:LYS:C[1_565]	1.66	0.54
2:B:1950:ASN:CB	2:B:2111:LYS:NZ[1_565]	1.66	0.54
1:A:409:SER:C	2:B:2037:ILE:CG1[1_565]	1.67	0.53
1:A:410:GLN:CG	2:B:2040:SER:CB[1_565]	1.67	0.53
1:A:418:ARG:CZ	2:B:2062:TRP:NE1[1_565]	1.67	0.53
1:A:426:VAL:CG1	2:B:2169:CYS:CB[1_565]	1.67	0.53
1:A:442:ILE:CD1	4:D:1:NAG:C7[1_565]	1.67	0.53
1:A:442:ILE:CD1	4:D:1:NAG:O7[1_565]	1.67	0.53
1:A:469:ALA:N	2:B:2019:ASN:ND2[1_565]	1.67	0.53
1:A:527:ARG:NE	2:B:2233:ASP:OD2[1_565]	1.67	0.53
1:A:549:GLY:C	2:B:2173:SER:CB[1_565]	1.67	0.53
1:A:553:ILE:CB	2:B:2327:GLU:C[1_565]	1.67	0.53
1:A:557:GLU:CA	2:B:2235:GLN:OE1[1_565]	1.67	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:569:ASP:C	2:B:2180:MET:CE[1_565]	1.67	0.53
1:A:571:ARG:CB	2:B:2323:VAL:CG1[1_565]	1.67	0.53
1:A:571:ARG:CD	2:B:2323:VAL:O[1_565]	1.67	0.53
1:A:578:VAL:CG1	2:B:2106:SER:O[1_565]	1.67	0.53
1:A:578:VAL:O	2:B:2146:ALA:N[1_565]	1.67	0.53
1:A:588:THR:N	2:B:2084:ILE:C[1_565]	1.67	0.53
1:A:589:GLU:O	2:B:2085:LYS:CG[1_565]	1.67	0.53
1:A:594:PHE:O	2:B:2052:ARG:CA[1_565]	1.67	0.53
1:A:605:ASP:CB	2:B:2101:PHE:CA[1_565]	1.67	0.53
1:A:607:GLU:C	2:B:2152:HIS:CD2[1_565]	1.67	0.53
1:A:609:GLN:CB	2:B:2102:ILE:C[1_565]	1.67	0.53
1:A:638:TYR:CD2	2:B:2240:VAL:CG2[1_565]	1.67	0.53
1:A:656:TYR:CD2	2:B:2261:LEU:CD2[1_565]	1.67	0.53
1:A:658:PHE:N	2:B:2273:LEU:CD2[1_565]	1.67	0.53
1:A:667:THR:N	2:B:2275:PHE:CD2[1_565]	1.67	0.53
1:A:678:VAL:N	2:B:2301:LEU:CG[1_565]	1.67	0.53
1:A:682:MET:CB	2:B:2309:HIS:O[1_565]	1.67	0.53
1:A:686:GLY:O	2:B:2259:GLU:OE2[1_565]	1.67	0.53
1:A:693:HIS:CA	2:B:2277:ASN:C[1_565]	1.67	0.53
1:A:710:SER:CA	2:B:2313:TRP:CB[1_565]	1.67	0.53
1:A:406:SER:C	2:B:2038:THR:CA[1_565]	1.68	0.52
1:A:410:GLN:CD	2:B:2070:TRP:CD1[1_565]	1.68	0.52
1:A:457:VAL:N	2:B:2236:LYS:CD[1_565]	1.68	0.52
1:A:473:TYR:CE1	2:B:2021:CYS:CB[1_565]	1.68	0.52
1:A:522:THR:CG2	2:B:2332:TYR:N[1_565]	1.68	0.52
1:A:548:ILE:N	2:B:2171:LEU:N[1_565]	1.68	0.52
1:A:551:LEU:N	2:B:2174:CYS:SG[1_565]	1.68	0.52
1:A:583:ARG:CA	2:B:2140:PHE:CG[1_565]	1.68	0.52
1:A:584:SER:N	2:B:2081:ILE:C[1_565]	1.68	0.52
1:A:588:THR:CA	2:B:2084:ILE:O[1_565]	1.68	0.52
1:A:595:LEU:O	2:B:2163:ARG:CB[1_565]	1.68	0.52
1:A:608:PHE:CD1	2:B:2151:LEU:CD2[1_565]	1.68	0.52
1:A:621:VAL:CB	2:B:2074:ASP:OD1[1_565]	1.68	0.52
1:A:636:TYR:CB	2:B:2306:LEU:CB[1_565]	1.68	0.52
1:A:638:TYR:CE2	2:B:2240:VAL:CG2[1_565]	1.68	0.52
1:A:639:ILE:O	2:B:2300:PRO:N[1_565]	1.68	0.52
1:A:653:PHE:CD1	2:B:2281:LYS:CA[1_565]	1.68	0.52
1:A:654:SER:O	2:B:2282:VAL:CG2[1_565]	1.68	0.52
1:A:659:LYS:CG	2:B:2271:TRP:C[1_565]	1.68	0.52
1:A:677:THR:OG1	2:B:2302:LEU:N[1_565]	1.68	0.52
1:A:679:PHE:CD2	2:B:2307:ARG:CB[1_565]	1.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:GLU:C	2:B:2018:SER:O[1_565]	1.69	0.51
1:A:392:ASP:OD1	2:B:2017:TYR:CD2[1_565]	1.69	0.51
1:A:406:SER:N	2:B:2039:ALA:N[1_565]	1.69	0.51
1:A:422:LYS:NZ	2:B:2028:ALA:C[1_565]	1.69	0.51
1:A:425:LYS:N	2:B:2025:LEU:N[1_565]	1.69	0.51
1:A:439:ARG:C	4:D:2:BMA:C5[1_565]	1.69	0.51
1:A:451:PRO:O	2:B:2175:SER:N[1_565]	1.69	0.51
1:A:455:GLY:O	2:B:2327:GLU:CD[1_565]	1.69	0.51
1:A:456:GLU:CA	2:B:2236:LYS:CD[1_565]	1.69	0.51
1:A:531:ARG:CA	2:B:2239:LYS:CE[1_565]	1.69	0.51
1:A:555:TYR:CD1	2:B:2304:ARG:NH1[1_565]	1.69	0.51
1:A:564:ASN:CA	2:B:2189:GLN:CA[1_565]	1.69	0.51
1:A:564:ASN:N	2:B:2189:GLN:N[1_565]	1.69	0.51
1:A:570:LYS:CD	2:B:2180:MET:CB[1_565]	1.69	0.51
1:A:577:SER:CB	2:B:2078:PRO:CA[1_565]	1.69	0.51
1:A:579:PHE:CE1	2:B:2078:PRO:C[1_565]	1.69	0.51
1:A:579:PHE:C	2:B:2146:ALA:CB[1_565]	1.69	0.51
1:A:586:TYR:CD2	2:B:2023:THR:O[1_565]	1.69	0.51
1:A:594:PHE:CE2	2:B:2052:ARG:CD[1_565]	1.69	0.51
1:A:595:LEU:CB	2:B:2164:MET:N[1_565]	1.69	0.51
1:A:599:ALA:CB	2:B:2132:SER:N[1_565]	1.69	0.51
1:A:606:PRO:N	2:B:2102:ILE:CG1[1_565]	1.69	0.51
1:A:611:SER:C	2:B:2149:ILE:O[1_565]	1.69	0.51
1:A:630:CYS:C	2:B:2257:VAL:CB[1_565]	1.69	0.51
1:A:658:PHE:CG	2:B:2273:LEU:O[1_565]	1.69	0.51
1:A:666:ASP:CA	2:B:2275:PHE:CE1[1_565]	1.69	0.51
1:A:686:GLY:C	2:B:2259:GLU:OE2[1_565]	1.69	0.51
1:A:106:TRP:CH2	1:A:472:PRO:CB[1_545]	1.70	0.50
1:A:390:GLU:CG	2:B:2023:THR:OG1[1_565]	1.70	0.50
1:A:393:TRP:O	2:B:2031:HIS:ND1[1_565]	1.70	0.50
1:A:394:ASP:CA	2:B:2031:HIS:CB[1_565]	1.70	0.50
1:A:419:ILE:N	2:B:2048:PRO:O[1_565]	1.70	0.50
1:A:437:LYS:CB	4:D:4:BMA:O6[1_565]	1.70	0.50
1:A:439:ARG:C	4:D:2:BMA:C6[1_565]	1.70	0.50
1:A:473:TYR:CE2	2:B:2021:CYS:CA[1_565]	1.70	0.50
1:A:527:ARG:N	2:B:2304:ARG:CA[1_565]	1.70	0.50
1:A:549:GLY:CA	2:B:2173:SER:O[1_565]	1.70	0.50
1:A:553:ILE:O	2:B:2238:MET:N[1_565]	1.70	0.50
1:A:564:ASN:OD1	2:B:2189:GLN:CB[1_565]	1.70	0.50
1:A:564:ASN:ND2	2:B:2189:GLN:CD[1_565]	1.70	0.50
1:A:578:VAL:CG2	2:B:2106:SER:C[1_565]	1.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:587:LEU:CD2	2:B:2138:ASN:O[1_565]	1.70	0.50
1:A:587:LEU:CG	2:B:2138:ASN:O[1_565]	1.70	0.50
1:A:598:PRO:CG	2:B:2087:GLN:CB[1_565]	1.70	0.50
1:A:603:LEU:O	2:B:2101:PHE:CA[1_565]	1.70	0.50
1:A:611:SER:CA	2:B:2150:ARG:C[1_565]	1.70	0.50
1:A:612:ASN:CA	2:B:2149:ILE:CA[1_565]	1.70	0.50
1:A:630:CYS:SG	2:B:2257:VAL:CB[1_565]	1.70	0.50
1:A:634:VAL:C	2:B:2308:ILE:CG1[1_565]	1.70	0.50
1:A:639:ILE:O	2:B:2299:PRO:C[1_565]	1.70	0.50
1:A:652:PHE:O	2:B:2276:GLN:N[1_565]	1.70	0.50
1:A:659:LYS:N	2:B:2273:LEU:N[1_565]	1.70	0.50
1:A:662:MET:CE	2:B:2267:ASP:OD1[1_565]	1.70	0.50
1:A:694:ASN:O	2:B:2110:LYS:CD[1_565]	1.70	0.50
1:A:141:LEU:CD2	1:A:505:PRO:O[1_545]	1.71	0.49
1:A:390:GLU:CD	2:B:1993:ALA:CA[1_565]	1.71	0.49
1:A:394:ASP:C	2:B:2034:ASP:OD2[1_565]	1.71	0.49
1:A:402:PRO:CB	2:B:2036:GLN:OE1[1_565]	1.71	0.49
1:A:403:ASP:CA	2:B:2046:TRP:CE2[1_565]	1.71	0.49
1:A:409:SER:C	2:B:2037:ILE:N[1_565]	1.71	0.49
1:A:411:TYR:CD1	2:B:2072:LYS:CG[1_565]	1.71	0.49
1:A:528:CYS:O	2:B:2303:THR:N[1_565]	1.71	0.49
1:A:543:LEU:C	2:B:2080:ILE:CA[1_565]	1.71	0.49
1:A:547:LEU:O	2:B:2171:LEU:N[1_565]	1.71	0.49
1:A:555:TYR:C	2:B:2236:LYS:CB[1_565]	1.71	0.49
1:A:572:ASN:CG	2:B:2243:VAL:N[1_565]	1.71	0.49
1:A:587:LEU:O	2:B:2085:LYS:N[1_565]	1.71	0.49
1:A:589:GLU:O	2:B:2085:LYS:CB[1_565]	1.71	0.49
1:A:599:ALA:O	2:B:2097:TYR:CD2[1_565]	1.71	0.49
1:A:607:GLU:C	2:B:2152:HIS:N[1_565]	1.71	0.49
1:A:608:PHE:CB	2:B:2151:LEU:CD2[1_565]	1.71	0.49
1:A:611:SER:C	2:B:2150:ARG:CA[1_565]	1.71	0.49
1:A:630:CYS:CA	2:B:2257:VAL:C[1_565]	1.71	0.49
1:A:632:HIS:ND1	2:B:2225:ASN:O[1_565]	1.71	0.49
1:A:658:PHE:CA	2:B:2273:LEU:CA[1_565]	1.71	0.49
1:A:660:HIS:CA	2:B:2272:THR:O[1_565]	1.71	0.49
1:A:682:MET:C	2:B:2310:PRO:N[1_565]	1.71	0.49
1:A:708:VAL:N	2:B:2258:LYS:O[1_565]	1.71	0.49
2:B:1820:GLN:CA	2:B:2227:LYS:CE[1_565]	1.71	0.49
1:A:405:ARG:O	2:B:2038:THR:O[1_565]	1.72	0.48
1:A:406:SER:CB	2:B:2038:THR:CA[1_565]	1.72	0.48
1:A:407:TYR:N	2:B:2038:THR:CB[1_565]	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:GLN:NE2	2:B:2070:TRP:CD1[1_565]	1.72	0.48
1:A:473:TYR:CD1	2:B:2020:LYS:CA[1_565]	1.72	0.48
1:A:521:PRO:CB	2:B:2237:THR:CB[1_565]	1.72	0.48
1:A:563:GLY:O	2:B:2189:GLN:CA[1_565]	1.72	0.48
1:A:573:VAL:O	2:B:2296:SER:CA[1_565]	1.72	0.48
1:A:576:PHE:CD1	2:B:2298:ASP:CA[1_565]	1.72	0.48
1:A:589:GLU:OE2	2:B:1995:ILE:CG2[1_565]	1.72	0.48
1:A:591:ILE:N	2:B:2085:LYS:C[1_565]	1.72	0.48
1:A:603:LEU:C	2:B:2101:PHE:CD2[1_565]	1.72	0.48
1:A:607:GLU:C	2:B:2152:HIS:CB[1_565]	1.72	0.48
1:A:615:HIS:C	2:B:2148:TYR:CD1[1_565]	1.72	0.48
1:A:630:CYS:CA	2:B:2257:VAL:CA[1_565]	1.72	0.48
1:A:632:HIS:C	2:B:2310:PRO:CG[1_565]	1.72	0.48
1:A:636:TYR:OH	2:B:2305:TYR:CB[1_565]	1.72	0.48
1:A:638:TYR:CG	2:B:2240:VAL:CG1[1_565]	1.72	0.48
1:A:652:PHE:C	2:B:2276:GLN:CB[1_565]	1.72	0.48
1:A:653:PHE:O	2:B:2280:VAL:C[1_565]	1.72	0.48
1:A:653:PHE:CG	2:B:2281:LYS:N[1_565]	1.72	0.48
1:A:682:MET:O	2:B:2310:PRO:O[1_565]	1.72	0.48
1:A:683:GLU:C	2:B:2311:GLN:NE2[1_565]	1.72	0.48
1:A:692:CYS:CB	2:B:2277:ASN:CG[1_565]	1.72	0.48
1:A:139:GLN:NE2	1:A:504:LEU:CG[1_545]	1.73	0.47
1:A:395:TYR:CB	2:B:2074:ASP:C[1_565]	1.73	0.47
1:A:402:PRO:CB	2:B:2036:GLN:CG[1_565]	1.73	0.47
1:A:411:TYR:CA	2:B:2072:LYS:CB[1_565]	1.73	0.47
1:A:412:LEU:N	2:B:2072:LYS:N[1_565]	1.73	0.47
1:A:452:LEU:N	2:B:2175:SER:O[1_565]	1.73	0.47
1:A:453:LEU:O	2:B:2326:CYS:CB[1_565]	1.73	0.47
1:A:473:TYR:CD2	2:B:2021:CYS:CB[1_565]	1.73	0.47
1:A:473:TYR:CD1	2:B:2020:LYS:C[1_565]	1.73	0.47
1:A:522:THR:O	2:B:2331:LEU:CD1[1_565]	1.73	0.47
1:A:522:THR:CG2	2:B:2331:LEU:C[1_565]	1.73	0.47
1:A:527:ARG:NH1	2:B:2305:TYR:CE2[1_565]	1.73	0.47
1:A:529:LEU:CG	2:B:2237:THR:CG2[1_565]	1.73	0.47
1:A:542:ASP:O	2:B:2080:ILE:CB[1_565]	1.73	0.47
1:A:544:ALA:CA	2:B:2080:ILE:C[1_565]	1.73	0.47
1:A:550:PRO:CB	2:B:2241:THR:OG1[1_565]	1.73	0.47
1:A:552:LEU:CB	2:B:2326:CYS:O[1_565]	1.73	0.47
1:A:554:CYS:SG	2:B:2238:MET:SD[1_565]	1.73	0.47
1:A:572:ASN:CB	2:B:2242:GLY:C[1_565]	1.73	0.47
1:A:584:SER:O	2:B:2083:GLY:CA[1_565]	1.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:591:ILE:CG1	2:B:2086:THR:C[1_565]	1.73	0.47
1:A:594:PHE:CZ	2:B:2052:ARG:NH1[1_565]	1.73	0.47
1:A:604:GLU:CA	2:B:2126:PHE:N[1_565]	1.73	0.47
1:A:619:GLY:N	2:B:2077:ALA:CA[1_565]	1.73	0.47
1:A:621:VAL:CA	2:B:2074:ASP:OD2[1_565]	1.73	0.47
1:A:627:LEU:CB	2:B:2295:ASN:CG[1_565]	1.73	0.47
1:A:638:TYR:CD1	2:B:2240:VAL:CB[1_565]	1.73	0.47
1:A:658:PHE:CB	2:B:2273:LEU:CA[1_565]	1.73	0.47
1:A:658:PHE:CD1	2:B:2274:PHE:CA[1_565]	1.73	0.47
1:A:666:ASP:N	2:B:2275:PHE:CE1[1_565]	1.73	0.47
1:A:682:MET:CE	2:B:2260:PHE:O[1_565]	1.73	0.47
1:A:685:PRO:CA	2:B:2312:SER:CB[1_565]	1.73	0.47
1:A:688:TRP:CD1	2:B:2282:VAL:CG1[1_565]	1.73	0.47
1:A:705:LEU:C	2:B:2284:GLN:CG[1_565]	1.73	0.47
1:A:710:SER:CB	2:B:2313:TRP:CD1[1_565]	1.73	0.47
1:A:388:ALA:C	2:B:2019:ASN:CB[1_565]	1.74	0.46
1:A:394:ASP:CB	2:B:2031:HIS:CA[1_565]	1.74	0.46
1:A:406:SER:C	2:B:2038:THR:CB[1_565]	1.74	0.46
1:A:412:LEU:C	2:B:2071:ILE:CD1[1_565]	1.74	0.46
1:A:418:ARG:NE	2:B:2062:TRP:NE1[1_565]	1.74	0.46
1:A:441:ALA:CB	4:D:3:MAN:O2[1_565]	1.74	0.46
1:A:445:GLU:CG	2:B:2294:VAL:C[1_565]	1.74	0.46
1:A:473:TYR:CD2	2:B:2021:CYS:N[1_565]	1.74	0.46
1:A:525:ASP:CA	2:B:2266:GLN:CB[1_565]	1.74	0.46
1:A:527:ARG:NH1	2:B:2305:TYR:CZ[1_565]	1.74	0.46
1:A:528:CYS:CA	2:B:2238:MET:N[1_565]	1.74	0.46
1:A:529:LEU:N	2:B:2238:MET:O[1_565]	1.74	0.46
1:A:544:ALA:CB	2:B:2081:ILE:N[1_565]	1.74	0.46
1:A:549:GLY:CA	2:B:2173:SER:C[1_565]	1.74	0.46
1:A:574:ILE:N	2:B:2241:THR:O[1_565]	1.74	0.46
1:A:574:ILE:CB	2:B:2297:LEU:C[1_565]	1.74	0.46
1:A:579:PHE:CG	2:B:2146:ALA:O[1_565]	1.74	0.46
1:A:579:PHE:CB	2:B:2146:ALA:O[1_565]	1.74	0.46
1:A:587:LEU:CB	2:B:2084:ILE:N[1_565]	1.74	0.46
1:A:588:THR:CA	2:B:2085:LYS:CA[1_565]	1.74	0.46
1:A:599:ALA:CB	2:B:2131:ASP:C[1_565]	1.74	0.46
1:A:599:ALA:C	2:B:2131:ASP:O[1_565]	1.74	0.46
1:A:605:ASP:CB	2:B:2152:HIS:O[1_565]	1.74	0.46
1:A:607:GLU:C	2:B:2152:HIS:CA[1_565]	1.74	0.46
1:A:608:PHE:N	2:B:2151:LEU:C[1_565]	1.74	0.46
1:A:610:ALA:CB	2:B:2152:HIS:NE2[1_565]	1.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:631:LEU:CG	2:B:2313:TRP:CZ3[1_565]	1.74	0.46
1:A:634:VAL:CG1	2:B:2230:LEU:CB[1_565]	1.74	0.46
1:A:635:ALA:N	2:B:2308:ILE:N[1_565]	1.74	0.46
1:A:637:TRP:NE1	2:B:2283:PHE:CE1[1_565]	1.74	0.46
1:A:656:TYR:C	2:B:2280:VAL:CG2[1_565]	1.74	0.46
1:A:666:ASP:C	2:B:2275:PHE:CG[1_565]	1.74	0.46
1:A:682:MET:CA	2:B:2310:PRO:N[1_565]	1.74	0.46
1:A:684:ASN:N	2:B:2311:GLN:CD[1_565]	1.74	0.46
1:A:713:LYS:CA	2:B:2248:VAL:CB[1_565]	1.74	0.46
1:A:390:GLU:CB	2:B:2023:THR:CB[1_565]	1.75	0.45
1:A:408:LYS:O	2:B:2037:ILE:N[1_565]	1.75	0.45
1:A:411:TYR:OH	2:B:2112:TRP:CZ2[1_565]	1.75	0.45
1:A:417:GLN:C	2:B:2051:ALA:CB[1_565]	1.75	0.45
1:A:425:LYS:CE	2:B:2025:LEU:CD2[1_565]	1.75	0.45
1:A:431:TYR:CZ	4:D:4:BMA:O2[1_565]	1.75	0.45
1:A:452:LEU:O	2:B:2176:MET:O[1_565]	1.75	0.45
1:A:456:GLU:N	2:B:2236:LYS:CE[1_565]	1.75	0.45
1:A:526:PRO:CG	2:B:2266:GLN:NE2[1_565]	1.75	0.45
1:A:546:GLY:CA	2:B:2169:CYS:O[1_565]	1.75	0.45
1:A:551:LEU:CA	2:B:2174:CYS:SG[1_565]	1.75	0.45
1:A:570:LYS:NZ	2:B:2180:MET:CA[1_565]	1.75	0.45
1:A:571:ARG:CG	2:B:2323:VAL:CB[1_565]	1.75	0.45
1:A:574:ILE:CA	2:B:2297:LEU:CA[1_565]	1.75	0.45
1:A:580:ASP:OD1	2:B:2105:TYR:CB[1_565]	1.75	0.45
1:A:586:TYR:OH	2:B:2023:THR:CA[1_565]	1.75	0.45
1:A:588:THR:CA	2:B:2085:LYS:N[1_565]	1.75	0.45
1:A:590:ASN:CB	2:B:2165:GLU:CA[1_565]	1.75	0.45
1:A:591:ILE:CB	2:B:2085:LYS:C[1_565]	1.75	0.45
1:A:592:GLN:N	2:B:2053:LEU:CD1[1_565]	1.75	0.45
1:A:608:PHE:O	2:B:2150:ARG:O[1_565]	1.75	0.45
1:A:608:PHE:CZ	2:B:2151:LEU:CD1[1_565]	1.75	0.45
1:A:618:ASN:O	2:B:2076:LEU:O[1_565]	1.75	0.45
1:A:621:VAL:CG2	2:B:2074:ASP:CG[1_565]	1.75	0.45
1:A:636:TYR:CE1	2:B:2306:LEU:N[1_565]	1.75	0.45
1:A:658:PHE:CE1	2:B:2274:PHE:O[1_565]	1.75	0.45
1:A:663:VAL:O	2:B:2271:TRP:C[1_565]	1.75	0.45
1:A:677:THR:CG2	2:B:2303:THR:CB[1_565]	1.75	0.45
1:A:677:THR:O	2:B:2264:SER:CB[1_565]	1.75	0.45
1:A:679:PHE:CZ	2:B:2307:ARG:CA[1_565]	1.75	0.45
1:A:697:PHE:CB	2:B:2109:GLY:C[1_565]	1.75	0.45
1:A:697:PHE:CD1	2:B:2110:LYS:C[1_565]	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:711:CYS:SG	2:B:2256:TYR:CA[1_565]	1.75	0.45
1:A:711:CYS:SG	2:B:2257:VAL:N[1_565]	1.75	0.45
1:A:713:LYS:N	2:B:2248:VAL:CB[1_565]	1.75	0.45
2:B:1950:ASN:ND2	2:B:2111:LYS:NZ[1_565]	1.75	0.45
1:A:106:TRP:CE3	1:A:472:PRO:CD[1_545]	1.76	0.44
1:A:117:GLN:CG	1:A:588:THR:C[1_545]	1.76	0.44
1:A:389:GLU:CA	2:B:1936:GLN:NE2[1_565]	1.76	0.44
1:A:409:SER:O	2:B:2037:ILE:CG2[1_565]	1.76	0.44
1:A:410:GLN:CD	2:B:2070:TRP:NE1[1_565]	1.76	0.44
1:A:418:ARG:N	2:B:2048:PRO:CB[1_565]	1.76	0.44
1:A:419:ILE:CG1	2:B:2049:LYS:C[1_565]	1.76	0.44
1:A:425:LYS:CB	2:B:2025:LEU:CD2[1_565]	1.76	0.44
1:A:439:ARG:CA	4:D:2:BMA:C5[1_565]	1.76	0.44
1:A:453:LEU:O	2:B:2325:GLY:C[1_565]	1.76	0.44
1:A:473:TYR:CG	2:B:2020:LYS:C[1_565]	1.76	0.44
1:A:521:PRO:O	2:B:2330:ASP:C[1_565]	1.76	0.44
1:A:546:GLY:C	2:B:2169:CYS:C[1_565]	1.76	0.44
1:A:547:LEU:C	2:B:2171:LEU:C[1_565]	1.76	0.44
1:A:553:ILE:N	2:B:2327:GLU:N[1_565]	1.76	0.44
1:A:554:CYS:N	2:B:2237:THR:O[1_565]	1.76	0.44
1:A:555:TYR:N	2:B:2236:LYS:CB[1_565]	1.76	0.44
1:A:565:GLN:N	2:B:2188:ALA:CA[1_565]	1.76	0.44
1:A:570:LYS:CG	2:B:2321:MET:C[1_565]	1.76	0.44
1:A:579:PHE:CZ	2:B:2079:MET:N[1_565]	1.76	0.44
1:A:580:ASP:C	2:B:2081:ILE:CG1[1_565]	1.76	0.44
1:A:590:ASN:O	2:B:2165:GLU:CA[1_565]	1.76	0.44
1:A:590:ASN:CG	2:B:2166:LEU:CA[1_565]	1.76	0.44
1:A:590:ASN:CA	2:B:2165:GLU:C[1_565]	1.76	0.44
1:A:592:GLN:O	2:B:2053:LEU:CG[1_565]	1.76	0.44
1:A:596:PRO:CA	2:B:2163:ARG:NH1[1_565]	1.76	0.44
1:A:598:PRO:O	2:B:2129:ASN:CB[1_565]	1.76	0.44
1:A:611:SER:CA	2:B:2151:LEU:N[1_565]	1.76	0.44
1:A:620:TYR:O	2:B:2147:ARG:CZ[1_565]	1.76	0.44
1:A:636:TYR:CZ	2:B:2305:TYR:CA[1_565]	1.76	0.44
1:A:639:ILE:CA	2:B:2299:PRO:C[1_565]	1.76	0.44
1:A:652:PHE:CA	2:B:2276:GLN:CA[1_565]	1.76	0.44
1:A:660:HIS:O	2:B:2272:THR:CG2[1_565]	1.76	0.44
1:A:683:GLU:CB	2:B:2310:PRO:O[1_565]	1.76	0.44
1:A:686:GLY:C	2:B:2259:GLU:OE1[1_565]	1.76	0.44
1:A:694:ASN:CB	2:B:2110:LYS:CD[1_565]	1.76	0.44
1:A:708:VAL:CG2	2:B:2259:GLU:CG[1_565]	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:713:LYS:NZ	2:B:2320:ARG:CG[1_565]	1.76	0.44
1:A:395:TYR:CG	2:B:2075:LEU:N[1_565]	1.77	0.43
1:A:406:SER:CA	2:B:2038:THR:OG1[1_565]	1.77	0.43
1:A:421:ARG:NE	2:B:2035:PHE:C[1_565]	1.77	0.43
1:A:422:LYS:CA	2:B:2027:MET:CE[1_565]	1.77	0.43
1:A:453:LEU:O	2:B:2326:CYS:N[1_565]	1.77	0.43
1:A:454:TYR:CD2	2:B:2178:LEU:O[1_565]	1.77	0.43
1:A:457:VAL:CG2	2:B:2330:ASP:OD1[1_565]	1.77	0.43
1:A:469:ALA:O	2:B:2020:LYS:CE[1_565]	1.77	0.43
1:A:473:TYR:OH	2:B:2021:CYS:O[1_565]	1.77	0.43
1:A:522:THR:CG2	2:B:2332:TYR:CG[1_565]	1.77	0.43
1:A:550:PRO:N	2:B:2173:SER:CB[1_565]	1.77	0.43
1:A:550:PRO:N	2:B:2173:SER:CA[1_565]	1.77	0.43
1:A:554:CYS:C	2:B:2236:LYS:CB[1_565]	1.77	0.43
1:A:554:CYS:CB	2:B:2238:MET:CG[1_565]	1.77	0.43
1:A:564:ASN:N	2:B:2189:GLN:CA[1_565]	1.77	0.43
1:A:574:ILE:C	2:B:2297:LEU:C[1_565]	1.77	0.43
1:A:595:LEU:CA	2:B:2164:MET:N[1_565]	1.77	0.43
1:A:597:ASN:O	2:B:2088:GLY:N[1_565]	1.77	0.43
1:A:604:GLU:CD	2:B:2125:VAL:C[1_565]	1.77	0.43
1:A:607:GLU:N	2:B:2152:HIS:CG[1_565]	1.77	0.43
1:A:614:MET:CA	2:B:2148:TYR:C[1_565]	1.77	0.43
1:A:615:HIS:CD2	2:B:2106:SER:OG[1_565]	1.77	0.43
1:A:615:HIS:CA	2:B:2148:TYR:CE1[1_565]	1.77	0.43
1:A:628:SER:CA	2:B:2285:GLY:C[1_565]	1.77	0.43
1:A:640:LEU:CA	2:B:2300:PRO:N[1_565]	1.77	0.43
1:A:651:VAL:N	2:B:2276:GLN:O[1_565]	1.77	0.43
1:A:680:MET:O	2:B:2309:HIS:N[1_565]	1.77	0.43
1:A:680:MET:C	2:B:2309:HIS:CG[1_565]	1.77	0.43
1:A:681:SER:O	2:B:2309:HIS:CB[1_565]	1.77	0.43
1:A:694:ASN:O	2:B:2110:LYS:CE[1_565]	1.77	0.43
1:A:696:ASP:C	2:B:2110:LYS:CA[1_565]	1.77	0.43
2:B:1820:GLN:CG	2:B:2227:LYS:CG[1_565]	1.77	0.43
1:A:390:GLU:C	2:B:2017:TYR:O[1_565]	1.78	0.42
1:A:394:ASP:CB	2:B:2031:HIS:CG[1_565]	1.78	0.42
1:A:395:TYR:CD2	2:B:2075:LEU:N[1_565]	1.78	0.42
1:A:396:ALA:CB	2:B:2035:PHE:CE1[1_565]	1.78	0.42
1:A:404:ASP:N	2:B:2041:GLY:O[1_565]	1.78	0.42
1:A:409:SER:CA	2:B:2037:ILE:CA[1_565]	1.78	0.42
1:A:411:TYR:O	2:B:2036:GLN:O[1_565]	1.78	0.42
1:A:414:ASN:OD1	2:B:2070:TRP:C[1_565]	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:ILE:N	2:B:2048:PRO:CA[1_565]	1.78	0.42
1:A:421:ARG:NH2	2:B:2036:GLN:N[1_565]	1.78	0.42
1:A:425:LYS:NZ	2:B:2025:LEU:CG[1_565]	1.78	0.42
1:A:454:TYR:CE1	2:B:2238:MET:CE[1_565]	1.78	0.42
1:A:528:CYS:N	2:B:2303:THR:C[1_565]	1.78	0.42
1:A:543:LEU:CG	2:B:2171:LEU:CD2[1_565]	1.78	0.42
1:A:553:ILE:O	2:B:2238:MET:CA[1_565]	1.78	0.42
1:A:555:TYR:CB	2:B:2236:LYS:N[1_565]	1.78	0.42
1:A:562:ARG:O	2:B:2233:ASP:OD1[1_565]	1.78	0.42
1:A:568:SER:N	2:B:2190:ILE:CG1[1_565]	1.78	0.42
1:A:571:ARG:C	2:B:2323:VAL:CA[1_565]	1.78	0.42
1:A:572:ASN:OD1	2:B:2295:ASN:O[1_565]	1.78	0.42
1:A:576:PHE:CD1	2:B:2298:ASP:OD1[1_565]	1.78	0.42
1:A:586:TYR:CE2	2:B:2023:THR:O[1_565]	1.78	0.42
1:A:615:HIS:NE2	2:B:2106:SER:CA[1_565]	1.78	0.42
1:A:615:HIS:CG	2:B:2106:SER:CB[1_565]	1.78	0.42
1:A:616:SER:OG	2:B:2077:ALA:N[1_565]	1.78	0.42
1:A:631:LEU:CG	2:B:2313:TRP:CD2[1_565]	1.78	0.42
1:A:660:HIS:C	2:B:2272:THR:OG1[1_565]	1.78	0.42
1:A:682:MET:CE	2:B:2260:PHE:CB[1_565]	1.78	0.42
1:A:686:GLY:C	2:B:2259:GLU:CD[1_565]	1.78	0.42
1:A:690:LEU:CD2	2:B:2281:LYS:NZ[1_565]	1.78	0.42
1:A:709:SER:N	2:B:2312:SER:O[1_565]	1.78	0.42
1:A:390:GLU:CA	2:B:2018:SER:CA[1_565]	1.79	0.41
1:A:402:PRO:N	2:B:2036:GLN:NE2[1_565]	1.79	0.41
1:A:411:TYR:CG	2:B:2072:LYS:CD[1_565]	1.79	0.41
1:A:470:SER:N	2:B:1993:ALA:N[1_565]	1.79	0.41
1:A:519:ASP:O	2:B:2328:ALA:C[1_565]	1.79	0.41
1:A:543:LEU:N	2:B:2080:ILE:CG1[1_565]	1.79	0.41
1:A:544:ALA:C	2:B:2080:ILE:N[1_565]	1.79	0.41
1:A:547:LEU:C	2:B:2170:ASP:O[1_565]	1.79	0.41
1:A:552:LEU:CA	2:B:2326:CYS:O[1_565]	1.79	0.41
1:A:571:ARG:CZ	2:B:2323:VAL:O[1_565]	1.79	0.41
1:A:573:VAL:CG1	2:B:2241:THR:CB[1_565]	1.79	0.41
1:A:586:TYR:CB	2:B:2167:MET:CB[1_565]	1.79	0.41
1:A:588:THR:CA	2:B:2084:ILE:C[1_565]	1.79	0.41
1:A:598:PRO:N	2:B:2088:GLY:CA[1_565]	1.79	0.41
1:A:602:GLN:CB	2:B:2098:ILE:O[1_565]	1.79	0.41
1:A:605:ASP:CA	2:B:2101:PHE:C[1_565]	1.79	0.41
1:A:628:SER:C	2:B:2285:GLY:CA[1_565]	1.79	0.41
1:A:636:TYR:CD1	2:B:2306:LEU:CB[1_565]	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:PHE:CZ	2:B:2275:PHE:CD1[1_565]	1.79	0.41
1:A:711:CYS:C	2:B:2255:MET:C[1_565]	1.79	0.41
1:A:711:CYS:SG	2:B:2256:TYR:C[1_565]	1.79	0.41
1:A:712:ASP:C	2:B:2248:VAL:CG2[1_565]	1.79	0.41
1:A:106:TRP:CZ2	1:A:472:PRO:CB[1_545]	1.80	0.40
1:A:106:TRP:CH2	1:A:472:PRO:CA[1_545]	1.80	0.40
1:A:395:TYR:CZ	2:B:2075:LEU:CA[1_565]	1.80	0.40
1:A:403:ASP:O	2:B:2037:ILE:CD1[1_565]	1.80	0.40
1:A:406:SER:C	2:B:2038:THR:C[1_565]	1.80	0.40
1:A:423:TYR:O	2:B:2025:LEU:O[1_565]	1.80	0.40
1:A:425:LYS:O	2:B:2023:THR:CG2[1_565]	1.80	0.40
1:A:438:THR:C	4:D:4:BMA:O5[1_565]	1.80	0.40
1:A:452:LEU:CG	2:B:2324:LEU:C[1_565]	1.80	0.40
1:A:453:LEU:O	2:B:2325:GLY:O[1_565]	1.80	0.40
1:A:525:ASP:C	2:B:2266:GLN:CG[1_565]	1.80	0.40
1:A:542:ASP:C	2:B:2080:ILE:CG2[1_565]	1.80	0.40
1:A:545:SER:N	2:B:2080:ILE:CA[1_565]	1.80	0.40
1:A:572:ASN:CG	2:B:2243:VAL:CA[1_565]	1.80	0.40
1:A:573:VAL:CB	2:B:2241:THR:O[1_565]	1.80	0.40
1:A:577:SER:O	2:B:2147:ARG:CB[1_565]	1.80	0.40
1:A:586:TYR:CA	2:B:2167:MET:CA[1_565]	1.80	0.40
1:A:609:GLN:C	2:B:2104:MET:N[1_565]	1.80	0.40
1:A:612:ASN:CB	2:B:2149:ILE:CB[1_565]	1.80	0.40
1:A:614:MET:C	2:B:2148:TYR:CA[1_565]	1.80	0.40
1:A:614:MET:O	2:B:2147:ARG:CB[1_565]	1.80	0.40
1:A:615:HIS:CB	2:B:2148:TYR:CD1[1_565]	1.80	0.40
1:A:636:TYR:CD2	2:B:2306:LEU:N[1_565]	1.80	0.40
1:A:682:MET:N	2:B:2309:HIS:CB[1_565]	1.80	0.40
2:B:1820:GLN:CG	2:B:2227:LYS:CE[1_565]	1.80	0.40
1:A:392:ASP:OD1	2:B:2029:SER:CB[1_565]	1.81	0.39
1:A:395:TYR:OH	2:B:2075:LEU:CB[1_565]	1.81	0.39
1:A:417:GLN:N	2:B:2062:TRP:CB[1_565]	1.81	0.39
1:A:419:ILE:CD1	2:B:2049:LYS:O[1_565]	1.81	0.39
1:A:473:TYR:CE1	2:B:2021:CYS:C[1_565]	1.81	0.39
1:A:473:TYR:CG	2:B:2021:CYS:N[1_565]	1.81	0.39
1:A:541:ARG:NH2	2:B:2140:PHE:CB[1_565]	1.81	0.39
1:A:553:ILE:C	2:B:2327:GLU:CB[1_565]	1.81	0.39
1:A:571:ARG:N	2:B:2322:GLU:C[1_565]	1.81	0.39
1:A:582:ASN:C	2:B:2140:PHE:CG[1_565]	1.81	0.39
1:A:586:TYR:CE1	2:B:2022:GLN:C[1_565]	1.81	0.39
1:A:591:ILE:CB	2:B:2085:LYS:O[1_565]	1.81	0.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:GLN:O	2:B:2053:LEU:CD1[1_565]	1.81	0.39
1:A:598:PRO:N	2:B:2087:GLN:C[1_565]	1.81	0.39
1:A:600:GLY:O	2:B:2129:ASN:ND2[1_565]	1.81	0.39
1:A:606:PRO:CA	2:B:2102:ILE:CD1[1_565]	1.81	0.39
1:A:619:GLY:CA	2:B:2076:LEU:O[1_565]	1.81	0.39
1:A:620:TYR:N	2:B:2076:LEU:O[1_565]	1.81	0.39
1:A:628:SER:OG	2:B:2286:ASN:N[1_565]	1.81	0.39
1:A:633:GLU:CD	2:B:2319:LEU:CD1[1_565]	1.81	0.39
1:A:644:ALA:CB	2:B:2107:LEU:CG[1_565]	1.81	0.39
1:A:656:TYR:C	2:B:2280:VAL:CG1[1_565]	1.81	0.39
1:A:658:PHE:N	2:B:2273:LEU:CB[1_565]	1.81	0.39
1:A:659:LYS:CE	2:B:2271:TRP:CD1[1_565]	1.81	0.39
1:A:683:GLU:CB	2:B:2226:PRO:O[1_565]	1.81	0.39
1:A:692:CYS:CB	2:B:2277:ASN:CB[1_565]	1.81	0.39
1:A:707:LYS:N	2:B:2284:GLN:OE1[1_565]	1.81	0.39
1:A:711:CYS:C	2:B:2255:MET:CA[1_565]	1.81	0.39
1:A:406:SER:O	2:B:2039:ALA:N[1_565]	1.82	0.38
1:A:422:LYS:O	2:B:2027:MET:CG[1_565]	1.82	0.38
1:A:423:TYR:O	2:B:2026:GLY:N[1_565]	1.82	0.38
1:A:519:ASP:C	2:B:2330:ASP:N[1_565]	1.82	0.38
1:A:527:ARG:CG	2:B:2304:ARG:CG[1_565]	1.82	0.38
1:A:563:GLY:C	2:B:2189:GLN:CA[1_565]	1.82	0.38
1:A:571:ARG:NE	2:B:2323:VAL:O[1_565]	1.82	0.38
1:A:573:VAL:CB	2:B:2241:THR:CG2[1_565]	1.82	0.38
1:A:579:PHE:CE1	2:B:2079:MET:CB[1_565]	1.82	0.38
1:A:590:ASN:ND2	2:B:2166:LEU:C[1_565]	1.82	0.38
1:A:595:LEU:CA	2:B:2163:ARG:CB[1_565]	1.82	0.38
1:A:605:ASP:N	2:B:2102:ILE:CA[1_565]	1.82	0.38
1:A:608:PHE:O	2:B:2151:LEU:N[1_565]	1.82	0.38
1:A:609:GLN:C	2:B:2150:ARG:O[1_565]	1.82	0.38
1:A:610:ALA:O	2:B:2150:ARG:CA[1_565]	1.82	0.38
1:A:612:ASN:C	2:B:2149:ILE:N[1_565]	1.82	0.38
1:A:613:ILE:O	2:B:2148:TYR:CB[1_565]	1.82	0.38
1:A:614:MET:O	2:B:2147:ARG:N[1_565]	1.82	0.38
1:A:622:PHE:CD1	2:B:2035:PHE:CE2[1_565]	1.82	0.38
1:A:629:VAL:CB	2:B:2260:PHE:CD2[1_565]	1.82	0.38
1:A:666:ASP:O	2:B:2275:PHE:CG[1_565]	1.82	0.38
1:A:681:SER:N	2:B:2309:HIS:ND1[1_565]	1.82	0.38
1:A:682:MET:CG	2:B:2260:PHE:CB[1_565]	1.82	0.38
1:A:707:LYS:NZ	2:B:2287:GLN:OE1[1_565]	1.82	0.38
1:A:710:SER:CA	2:B:2314:VAL:N[1_565]	1.82	0.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:282:ARG:NH1	2:B:2332:TYR:CG[1_565]	1.83	0.37
1:A:388:ALA:O	2:B:2019:ASN:CG[1_565]	1.83	0.37
1:A:395:TYR:CD2	2:B:2074:ASP:C[1_565]	1.83	0.37
1:A:395:TYR:CG	2:B:2075:LEU:CA[1_565]	1.83	0.37
1:A:403:ASP:OD2	2:B:2042:GLN:OE1[1_565]	1.83	0.37
1:A:406:SER:CA	2:B:2038:THR:CB[1_565]	1.83	0.37
1:A:423:TYR:O	2:B:2025:LEU:C[1_565]	1.83	0.37
1:A:424:LYS:O	2:B:2166:LEU:O[1_565]	1.83	0.37
1:A:473:TYR:CG	2:B:2021:CYS:CA[1_565]	1.83	0.37
1:A:519:ASP:CA	2:B:2329:GLN:CA[1_565]	1.83	0.37
1:A:526:PRO:CA	2:B:2265:SER:O[1_565]	1.83	0.37
1:A:526:PRO:CA	2:B:2266:GLN:OE1[1_565]	1.83	0.37
1:A:528:CYS:SG	2:B:2238:MET:CG[1_565]	1.83	0.37
1:A:541:ARG:O	2:B:2082:HIS:ND1[1_565]	1.83	0.37
1:A:543:LEU:O	2:B:2080:ILE:CG1[1_565]	1.83	0.37
1:A:553:ILE:CD1	2:B:2327:GLU:O[1_565]	1.83	0.37
1:A:564:ASN:C	2:B:2189:GLN:N[1_565]	1.83	0.37
1:A:583:ARG:CA	2:B:2140:PHE:CB[1_565]	1.83	0.37
1:A:585:TRP:O	2:B:2022:GLN:CG[1_565]	1.83	0.37
1:A:588:THR:CB	2:B:2137:HIS:CA[1_565]	1.83	0.37
1:A:589:GLU:CG	2:B:2085:LYS:CD[1_565]	1.83	0.37
1:A:594:PHE:CZ	2:B:2052:ARG:CD[1_565]	1.83	0.37
1:A:594:PHE:CE2	2:B:2052:ARG:CZ[1_565]	1.83	0.37
1:A:597:ASN:N	2:B:2163:ARG:CD[1_565]	1.83	0.37
1:A:598:PRO:CG	2:B:2087:GLN:CA[1_565]	1.83	0.37
1:A:601:VAL:CA	2:B:2129:ASN:CG[1_565]	1.83	0.37
1:A:602:GLN:N	2:B:2129:ASN:N[1_565]	1.83	0.37
1:A:620:TYR:CA	2:B:2076:LEU:CB[1_565]	1.83	0.37
1:A:630:CYS:SG	2:B:2257:VAL:N[1_565]	1.83	0.37
1:A:637:TRP:NE1	2:B:2262:ILE:CD1[1_565]	1.83	0.37
1:A:650:SER:O	2:B:2277:ASN:CA[1_565]	1.83	0.37
1:A:659:LYS:CB	2:B:2271:TRP:CB[1_565]	1.83	0.37
1:A:665:GLU:C	2:B:2275:PHE:CE1[1_565]	1.83	0.37
1:A:677:THR:OG1	2:B:2303:THR:N[1_565]	1.83	0.37
1:A:682:MET:CB	2:B:2309:HIS:C[1_565]	1.83	0.37
1:A:711:CYS:O	2:B:2255:MET:CB[1_565]	1.83	0.37
1:A:391:GLU:CA	2:B:2018:SER:OG[1_565]	1.84	0.36
1:A:392:ASP:OD1	2:B:2017:TYR:CZ[1_565]	1.84	0.36
1:A:394:ASP:OD2	2:B:2031:HIS:O[1_565]	1.84	0.36
1:A:402:PRO:CG	2:B:2036:GLN:OE1[1_565]	1.84	0.36
1:A:409:SER:O	2:B:2037:ILE:CB[1_565]	1.84	0.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:GLN:N	2:B:2037:ILE:CG2[1_565]	1.84	0.36
1:A:410:GLN:CB	2:B:2040:SER:OG[1_565]	1.84	0.36
1:A:416:PRO:CA	2:B:2062:TRP:N[1_565]	1.84	0.36
1:A:416:PRO:CG	2:B:2062:TRP:O[1_565]	1.84	0.36
1:A:424:LYS:CE	2:B:2015:LEU:CG[1_565]	1.84	0.36
1:A:428:PHE:CE1	2:B:2172:ASN:CG[1_565]	1.84	0.36
1:A:431:TYR:CD1	4:D:4:BMA:O3[1_565]	1.84	0.36
1:A:452:LEU:CD2	2:B:2324:LEU:C[1_565]	1.84	0.36
1:A:527:ARG:CA	2:B:2304:ARG:CA[1_565]	1.84	0.36
1:A:530:THR:OG1	2:B:2301:LEU:C[1_565]	1.84	0.36
1:A:544:ALA:C	2:B:2081:ILE:N[1_565]	1.84	0.36
1:A:553:ILE:CB	2:B:2327:GLU:CB[1_565]	1.84	0.36
1:A:553:ILE:CD1	2:B:2328:ALA:C[1_565]	1.84	0.36
1:A:554:CYS:CB	2:B:2238:MET:SD[1_565]	1.84	0.36
1:A:564:ASN:CB	2:B:2189:GLN:CA[1_565]	1.84	0.36
1:A:576:PHE:CB	2:B:2298:ASP:CG[1_565]	1.84	0.36
1:A:578:VAL:C	2:B:2147:ARG:N[1_565]	1.84	0.36
1:A:582:ASN:CA	2:B:2140:PHE:CE2[1_565]	1.84	0.36
1:A:585:TRP:CG	2:B:2022:GLN:OE1[1_565]	1.84	0.36
1:A:589:GLU:N	2:B:2085:LYS:CG[1_565]	1.84	0.36
1:A:593:ARG:CZ	2:B:2015:LEU:CD2[1_565]	1.84	0.36
1:A:601:VAL:N	2:B:2129:ASN:C[1_565]	1.84	0.36
1:A:602:GLN:CG	2:B:2098:ILE:O[1_565]	1.84	0.36
1:A:602:GLN:C	2:B:2128:GLY:CA[1_565]	1.84	0.36
1:A:604:GLU:OE2	2:B:2125:VAL:CG1[1_565]	1.84	0.36
1:A:609:GLN:O	2:B:2150:ARG:O[1_565]	1.84	0.36
1:A:613:ILE:O	2:B:2148:TYR:C[1_565]	1.84	0.36
1:A:616:SER:N	2:B:2147:ARG:CG[1_565]	1.84	0.36
1:A:634:VAL:CB	2:B:2230:LEU:N[1_565]	1.84	0.36
1:A:636:TYR:CE2	2:B:2306:LEU:C[1_565]	1.84	0.36
1:A:679:PHE:CE2	2:B:2307:ARG:N[1_565]	1.84	0.36
1:A:682:MET:CE	2:B:2260:PHE:N[1_565]	1.84	0.36
1:A:684:ASN:N	2:B:2311:GLN:NE2[1_565]	1.84	0.36
1:A:706:LEU:CA	2:B:2284:GLN:N[1_565]	1.84	0.36
1:A:117:GLN:CD	1:A:588:THR:O[1_545]	1.85	0.35
1:A:417:GLN:NE2	2:B:2050:LEU:CA[1_565]	1.85	0.35
1:A:422:LYS:CA	2:B:2031:HIS:NE2[1_565]	1.85	0.35
1:A:452:LEU:CD1	2:B:2176:MET:O[1_565]	1.85	0.35
1:A:521:PRO:O	2:B:2330:ASP:O[1_565]	1.85	0.35
1:A:522:THR:N	2:B:2331:LEU:CG[1_565]	1.85	0.35
1:A:526:PRO:N	2:B:2266:GLN:CG[1_565]	1.85	0.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:528:CYS:O	2:B:2303:THR:O[1_565]	1.85	0.35
1:A:541:ARG:NH2	2:B:2140:PHE:O[1_565]	1.85	0.35
1:A:550:PRO:CG	2:B:2241:THR:OG1[1_565]	1.85	0.35
1:A:555:TYR:N	2:B:2236:LYS:O[1_565]	1.85	0.35
1:A:556:LYS:N	2:B:2235:GLN:C[1_565]	1.85	0.35
1:A:579:PHE:CA	2:B:2146:ALA:CA[1_565]	1.85	0.35
1:A:586:TYR:CE1	2:B:2023:THR:N[1_565]	1.85	0.35
1:A:587:LEU:CB	2:B:2083:GLY:CA[1_565]	1.85	0.35
1:A:602:GLN:CA	2:B:2098:ILE:O[1_565]	1.85	0.35
1:A:605:ASP:C	2:B:2102:ILE:N[1_565]	1.85	0.35
1:A:608:PHE:CD1	2:B:2151:LEU:CB[1_565]	1.85	0.35
1:A:612:ASN:O	2:B:2149:ILE:N[1_565]	1.85	0.35
1:A:613:ILE:CD1	2:B:2104:MET:CA[1_565]	1.85	0.35
1:A:614:MET:N	2:B:2148:TYR:N[1_565]	1.85	0.35
1:A:627:LEU:O	2:B:2284:GLN:CA[1_565]	1.85	0.35
1:A:629:VAL:CG2	2:B:2260:PHE:CD2[1_565]	1.85	0.35
1:A:635:ALA:O	2:B:2262:ILE:CG2[1_565]	1.85	0.35
1:A:637:TRP:NE1	2:B:2262:ILE:CG1[1_565]	1.85	0.35
1:A:643:GLY:C	2:B:2145:ILE:CD1[1_565]	1.85	0.35
1:A:651:VAL:C	2:B:2277:ASN:N[1_565]	1.85	0.35
1:A:653:PHE:CD2	2:B:2281:LYS:CB[1_565]	1.85	0.35
1:A:666:ASP:CB	2:B:2275:PHE:CZ[1_565]	1.85	0.35
1:A:700:ARG:CD	2:B:2112:TRP:CE2[1_565]	1.85	0.35
1:A:706:LEU:N	2:B:2284:GLN:CG[1_565]	1.85	0.35
1:A:709:SER:CA	2:B:2313:TRP:CA[1_565]	1.85	0.35
1:A:710:SER:O	2:B:2314:VAL:CG1[1_565]	1.85	0.35
1:A:711:CYS:O	2:B:2255:MET:CG[1_565]	1.85	0.35
1:A:713:LYS:NZ	2:B:2320:ARG:N[1_565]	1.85	0.35
1:A:390:GLU:C	2:B:2018:SER:CB[1_565]	1.86	0.34
1:A:390:GLU:O	2:B:2018:SER:CA[1_565]	1.86	0.34
1:A:391:GLU:N	2:B:2018:SER:OG[1_565]	1.86	0.34
1:A:391:GLU:O	2:B:2017:TYR:CB[1_565]	1.86	0.34
1:A:404:ASP:C	2:B:2039:ALA:CA[1_565]	1.86	0.34
1:A:411:TYR:CE2	2:B:2072:LYS:CG[1_565]	1.86	0.34
1:A:419:ILE:N	2:B:2048:PRO:CB[1_565]	1.86	0.34
1:A:421:ARG:NH1	2:B:2036:GLN:C[1_565]	1.86	0.34
1:A:423:TYR:O	2:B:2026:GLY:CA[1_565]	1.86	0.34
1:A:425:LYS:N	2:B:2025:LEU:C[1_565]	1.86	0.34
1:A:443:GLN:O	2:B:2294:VAL:CG1[1_565]	1.86	0.34
1:A:453:LEU:O	2:B:2326:CYS:CA[1_565]	1.86	0.34
1:A:455:GLY:O	2:B:2327:GLU:CG[1_565]	1.86	0.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:526:PRO:CG	2:B:2266:GLN:CD[1_565]	1.86	0.34
1:A:528:CYS:N	2:B:2304:ARG:CA[1_565]	1.86	0.34
1:A:529:LEU:O	2:B:2238:MET:O[1_565]	1.86	0.34
1:A:529:LEU:O	2:B:2238:MET:C[1_565]	1.86	0.34
1:A:540:GLU:OE1	2:B:2143:PRO:CD[1_565]	1.86	0.34
1:A:549:GLY:C	2:B:2173:SER:N[1_565]	1.86	0.34
1:A:553:ILE:N	2:B:2327:GLU:CB[1_565]	1.86	0.34
1:A:555:TYR:C	2:B:2235:GLN:O[1_565]	1.86	0.34
1:A:557:GLU:CD	2:B:2234:PHE:C[1_565]	1.86	0.34
1:A:570:LYS:C	2:B:2323:VAL:N[1_565]	1.86	0.34
1:A:574:ILE:O	2:B:2297:LEU:C[1_565]	1.86	0.34
1:A:586:TYR:OH	2:B:2022:GLN:O[1_565]	1.86	0.34
1:A:595:LEU:CD2	2:B:2163:ARG:N[1_565]	1.86	0.34
1:A:597:ASN:CA	2:B:2088:GLY:CA[1_565]	1.86	0.34
1:A:599:ALA:CB	2:B:2132:SER:CB[1_565]	1.86	0.34
1:A:612:ASN:N	2:B:2149:ILE:O[1_565]	1.86	0.34
1:A:614:MET:CB	2:B:2147:ARG:C[1_565]	1.86	0.34
1:A:619:GLY:C	2:B:2076:LEU:N[1_565]	1.86	0.34
1:A:628:SER:CA	2:B:2285:GLY:O[1_565]	1.86	0.34
1:A:632:HIS:NE2	2:B:2317:ILE:CD1[1_565]	1.86	0.34
1:A:637:TRP:O	2:B:2301:LEU:CD1[1_565]	1.86	0.34
1:A:651:VAL:O	2:B:2276:GLN:N[1_565]	1.86	0.34
1:A:665:GLU:O	2:B:2275:PHE:CE1[1_565]	1.86	0.34
1:A:667:THR:N	2:B:2275:PHE:CG[1_565]	1.86	0.34
1:A:697:PHE:CG	2:B:2110:LYS:CA[1_565]	1.86	0.34
1:A:713:LYS:CA	2:B:2248:VAL:CG2[1_565]	1.86	0.34
1:A:713:LYS:NZ	2:B:2320:ARG:CA[1_565]	1.86	0.34
2:B:1820:GLN:CD	2:B:2227:LYS:CD[1_565]	1.86	0.34
1:A:395:TYR:CE1	2:B:2075:LEU:CG[1_565]	1.87	0.33
1:A:417:GLN:OE1	2:B:2051:ALA:N[1_565]	1.87	0.33
1:A:419:ILE:N	2:B:2049:LYS:N[1_565]	1.87	0.33
1:A:421:ARG:NE	2:B:2035:PHE:CA[1_565]	1.87	0.33
1:A:421:ARG:NH1	2:B:2035:PHE:C[1_565]	1.87	0.33
1:A:428:PHE:CD2	2:B:2172:ASN:CG[1_565]	1.87	0.33
1:A:521:PRO:CG	2:B:2237:THR:CA[1_565]	1.87	0.33
1:A:527:ARG:CG	2:B:2304:ARG:CD[1_565]	1.87	0.33
1:A:542:ASP:O	2:B:2080:ILE:CG2[1_565]	1.87	0.33
1:A:543:LEU:O	2:B:2080:ILE:CB[1_565]	1.87	0.33
1:A:544:ALA:O	2:B:2080:ILE:C[1_565]	1.87	0.33
1:A:553:ILE:CB	2:B:2328:ALA:N[1_565]	1.87	0.33
1:A:555:TYR:CA	2:B:2236:LYS:C[1_565]	1.87	0.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:SER:O	2:B:2180:MET:CE[1_565]	1.87	0.33
1:A:576:PHE:CG	2:B:2298:ASP:CB[1_565]	1.87	0.33
1:A:580:ASP:OD2	2:B:2105:TYR:CD2[1_565]	1.87	0.33
1:A:580:ASP:OD2	2:B:2144:ILE:CD1[1_565]	1.87	0.33
1:A:581:GLU:CB	2:B:2166:LEU:CD2[1_565]	1.87	0.33
1:A:582:ASN:C	2:B:2140:PHE:CE1[1_565]	1.87	0.33
1:A:596:PRO:N	2:B:2163:ARG:CG[1_565]	1.87	0.33
1:A:609:GLN:CB	2:B:2103:ILE:C[1_565]	1.87	0.33
1:A:611:SER:N	2:B:2151:LEU:N[1_565]	1.87	0.33
1:A:619:GLY:CA	2:B:2076:LEU:CA[1_565]	1.87	0.33
1:A:634:VAL:C	2:B:2308:ILE:CA[1_565]	1.87	0.33
1:A:659:LYS:CD	2:B:2271:TRP:CA[1_565]	1.87	0.33
1:A:666:ASP:CB	2:B:2275:PHE:CE2[1_565]	1.87	0.33
1:A:681:SER:CA	2:B:2309:HIS:CA[1_565]	1.87	0.33
1:A:683:GLU:CB	2:B:2226:PRO:CA[1_565]	1.87	0.33
1:A:685:PRO:C	2:B:2312:SER:OG[1_565]	1.87	0.33
1:A:688:TRP:CB	2:B:2282:VAL:CG2[1_565]	1.87	0.33
1:A:709:SER:N	2:B:2258:LYS:N[1_565]	1.87	0.33
1:A:117:GLN:NE2	1:A:588:THR:CB[1_545]	1.88	0.32
1:A:395:TYR:OH	2:B:2075:LEU:CD2[1_565]	1.88	0.32
1:A:395:TYR:O	2:B:2076:LEU:CG[1_565]	1.88	0.32
1:A:403:ASP:N	2:B:2046:TRP:CZ2[1_565]	1.88	0.32
1:A:411:TYR:CD2	2:B:2072:LYS:CB[1_565]	1.88	0.32
1:A:412:LEU:O	2:B:2071:ILE:CB[1_565]	1.88	0.32
1:A:416:PRO:N	2:B:2062:TRP:O[1_565]	1.88	0.32
1:A:417:GLN:CD	2:B:2050:LEU:O[1_565]	1.88	0.32
1:A:423:TYR:CZ	2:B:2073:VAL:CG2[1_565]	1.88	0.32
1:A:424:LYS:O	2:B:2025:LEU:CA[1_565]	1.88	0.32
1:A:445:GLU:CB	2:B:2294:VAL:O[1_565]	1.88	0.32
1:A:468:GLN:CB	2:B:1991:SER:OG[1_565]	1.88	0.32
1:A:529:LEU:O	2:B:2239:LYS:N[1_565]	1.88	0.32
1:A:541:ARG:NE	2:B:2140:PHE:C[1_565]	1.88	0.32
1:A:571:ARG:N	2:B:2323:VAL:CB[1_565]	1.88	0.32
1:A:571:ARG:CA	2:B:2323:VAL:CG1[1_565]	1.88	0.32
1:A:586:TYR:CE2	2:B:2023:THR:N[1_565]	1.88	0.32
1:A:588:THR:CG2	2:B:2136:LYS:O[1_565]	1.88	0.32
1:A:594:PHE:CE2	2:B:2052:ARG:NE[1_565]	1.88	0.32
1:A:595:LEU:CD1	2:B:2087:GLN:O[1_565]	1.88	0.32
1:A:619:GLY:N	2:B:2077:ALA:CB[1_565]	1.88	0.32
1:A:636:TYR:OH	2:B:2305:TYR:N[1_565]	1.88	0.32
1:A:639:ILE:O	2:B:2300:PRO:CA[1_565]	1.88	0.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:ILE:CG1	2:B:2299:PRO:O[1_565]	1.88	0.32
1:A:684:ASN:CB	2:B:2311:GLN:CD[1_565]	1.88	0.32
1:A:686:GLY:CA	2:B:2259:GLU:OE2[1_565]	1.88	0.32
1:A:697:PHE:CA	2:B:2109:GLY:O[1_565]	1.88	0.32
1:A:713:LYS:NZ	2:B:2320:ARG:CB[1_565]	1.88	0.32
2:B:1950:ASN:CG	2:B:2111:LYS:NZ[1_565]	1.88	0.32
1:A:390:GLU:CB	2:B:2017:TYR:O[1_565]	1.89	0.31
1:A:392:ASP:CA	2:B:2029:SER:O[1_565]	1.89	0.31
1:A:404:ASP:O	2:B:2039:ALA:O[1_565]	1.89	0.31
1:A:408:LYS:CA	2:B:2037:ILE:O[1_565]	1.89	0.31
1:A:409:SER:N	2:B:2037:ILE:CA[1_565]	1.89	0.31
1:A:411:TYR:CD1	2:B:2072:LYS:CB[1_565]	1.89	0.31
1:A:414:ASN:ND2	2:B:2070:TRP:CA[1_565]	1.89	0.31
1:A:417:GLN:CG	2:B:2051:ALA:CB[1_565]	1.89	0.31
1:A:425:LYS:NZ	2:B:2025:LEU:CD2[1_565]	1.89	0.31
1:A:437:LYS:C	4:D:4:BMA:O6[1_565]	1.89	0.31
1:A:439:ARG:N	4:D:4:BMA:O5[1_565]	1.89	0.31
1:A:450:GLY:O	2:B:2175:SER:OG[1_565]	1.89	0.31
1:A:530:THR:N	2:B:2302:LEU:CB[1_565]	1.89	0.31
1:A:552:LEU:N	2:B:2326:CYS:CB[1_565]	1.89	0.31
1:A:555:TYR:CE2	2:B:2304:ARG:NH2[1_565]	1.89	0.31
1:A:557:GLU:CB	2:B:2235:GLN:CB[1_565]	1.89	0.31
1:A:571:ARG:CD	2:B:2178:LEU:CB[1_565]	1.89	0.31
1:A:574:ILE:CD1	2:B:2297:LEU:CD2[1_565]	1.89	0.31
1:A:590:ASN:ND2	2:B:2166:LEU:O[1_565]	1.89	0.31
1:A:594:PHE:O	2:B:2051:ALA:C[1_565]	1.89	0.31
1:A:596:PRO:CB	2:B:2061:ALA:CB[1_565]	1.89	0.31
1:A:597:ASN:CG	2:B:2089:ALA:C[1_565]	1.89	0.31
1:A:601:VAL:C	2:B:2128:GLY:CA[1_565]	1.89	0.31
1:A:602:GLN:CA	2:B:2128:GLY:CA[1_565]	1.89	0.31
1:A:609:GLN:CG	2:B:2102:ILE:CA[1_565]	1.89	0.31
1:A:614:MET:CA	2:B:2147:ARG:C[1_565]	1.89	0.31
1:A:616:SER:OG	2:B:2147:ARG:CG[1_565]	1.89	0.31
1:A:628:SER:N	2:B:2284:GLN:O[1_565]	1.89	0.31
1:A:637:TRP:CE2	2:B:2262:ILE:CD1[1_565]	1.89	0.31
1:A:658:PHE:CG	2:B:2274:PHE:CA[1_565]	1.89	0.31
1:A:679:PHE:CA	2:B:2263:SER:N[1_565]	1.89	0.31
1:A:679:PHE:C	2:B:2263:SER:CB[1_565]	1.89	0.31
1:A:691:GLY:C	2:B:2276:GLN:OE1[1_565]	1.89	0.31
1:A:706:LEU:C	2:B:2284:GLN:OE1[1_565]	1.89	0.31
1:A:711:CYS:N	2:B:2256:TYR:O[1_565]	1.89	0.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:711:CYS:N	2:B:2316:GLN:O[1_565]	1.89	0.31
1:A:106:TRP:CZ3	1:A:471:ARG:C[1_545]	1.90	0.30
1:A:390:GLU:OE2	2:B:1993:ALA:N[1_565]	1.90	0.30
1:A:410:GLN:NE2	2:B:2070:TRP:N[1_565]	1.90	0.30
1:A:417:GLN:CD	2:B:2050:LEU:CA[1_565]	1.90	0.30
1:A:418:ARG:CA	2:B:2048:PRO:CA[1_565]	1.90	0.30
1:A:419:ILE:O	2:B:2035:PHE:O[1_565]	1.90	0.30
1:A:420:GLY:C	2:B:2034:ASP:N[1_565]	1.90	0.30
1:A:425:LYS:CD	2:B:2025:LEU:CD2[1_565]	1.90	0.30
1:A:437:LYS:C	4:D:4:BMA:O5[1_565]	1.90	0.30
1:A:453:LEU:C	2:B:2325:GLY:O[1_565]	1.90	0.30
1:A:456:GLU:C	2:B:2236:LYS:CD[1_565]	1.90	0.30
1:A:527:ARG:CG	2:B:2305:TYR:CE1[1_565]	1.90	0.30
1:A:554:CYS:C	2:B:2236:LYS:C[1_565]	1.90	0.30
1:A:557:GLU:OE1	2:B:2235:GLN:N[1_565]	1.90	0.30
1:A:570:LYS:CG	2:B:2322:GLU:CB[1_565]	1.90	0.30
1:A:570:LYS:N	2:B:2321:MET:CE[1_565]	1.90	0.30
1:A:582:ASN:CB	2:B:2103:ILE:CG2[1_565]	1.90	0.30
1:A:588:THR:C	2:B:2085:LYS:CB[1_565]	1.90	0.30
1:A:608:PHE:CE1	2:B:2151:LEU:CG[1_565]	1.90	0.30
1:A:612:ASN:N	2:B:2150:ARG:CA[1_565]	1.90	0.30
1:A:615:HIS:O	2:B:2148:TYR:OH[1_565]	1.90	0.30
1:A:616:SER:CA	2:B:2147:ARG:CG[1_565]	1.90	0.30
1:A:634:VAL:CA	2:B:2308:ILE:CA[1_565]	1.90	0.30
1:A:636:TYR:CE1	2:B:2305:TYR:C[1_565]	1.90	0.30
1:A:638:TYR:CG	2:B:2240:VAL:CA[1_565]	1.90	0.30
1:A:653:PHE:CA	2:B:2281:LYS:CA[1_565]	1.90	0.30
1:A:658:PHE:CB	2:B:2273:LEU:CB[1_565]	1.90	0.30
1:A:659:LYS:CE	2:B:2271:TRP:CD2[1_565]	1.90	0.30
1:A:662:MET:CA	2:B:2270:GLN:O[1_565]	1.90	0.30
1:A:692:CYS:SG	2:B:2277:ASN:ND2[1_565]	1.90	0.30
1:A:708:VAL:N	2:B:2259:GLU:N[1_565]	1.90	0.30
1:A:711:CYS:C	2:B:2255:MET:CB[1_565]	1.90	0.30
1:A:712:ASP:CG	2:B:2255:MET:CB[1_565]	1.90	0.30
2:B:1968:LYS:NZ	2:B:2267:ASP:CB[1_565]	1.90	0.30
1:A:276:PHE:CE1	2:B:2332:TYR:O[1_565]	1.91	0.29
1:A:282:ARG:CD	2:B:2332:TYR:CB[1_565]	1.91	0.29
1:A:400:LEU:CD1	2:B:2033:ARG:CB[1_565]	1.91	0.29
1:A:402:PRO:O	2:B:2046:TRP:CE3[1_565]	1.91	0.29
1:A:411:TYR:CA	2:B:2036:GLN:O[1_565]	1.91	0.29
1:A:414:ASN:OD1	2:B:2071:ILE:N[1_565]	1.91	0.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:PRO:C	2:B:2175:SER:O[1_565]	1.91	0.29
1:A:452:LEU:N	2:B:2175:SER:CA[1_565]	1.91	0.29
1:A:521:PRO:CA	2:B:2237:THR:OG1[1_565]	1.91	0.29
1:A:530:THR:O	2:B:2302:LEU:CG[1_565]	1.91	0.29
1:A:544:ALA:CA	2:B:2080:ILE:N[1_565]	1.91	0.29
1:A:547:LEU:CD2	2:B:2021:CYS:SG[1_565]	1.91	0.29
1:A:564:ASN:CA	2:B:2188:ALA:O[1_565]	1.91	0.29
1:A:564:ASN:CG	2:B:2189:GLN:CA[1_565]	1.91	0.29
1:A:572:ASN:N	2:B:2242:GLY:C[1_565]	1.91	0.29
1:A:583:ARG:N	2:B:2140:PHE:CG[1_565]	1.91	0.29
1:A:588:THR:CB	2:B:2138:ASN:N[1_565]	1.91	0.29
1:A:590:ASN:C	2:B:2165:GLU:CA[1_565]	1.91	0.29
1:A:592:GLN:NE2	2:B:2135:ILE:C[1_565]	1.91	0.29
1:A:599:ALA:CB	2:B:2132:SER:CA[1_565]	1.91	0.29
1:A:605:ASP:CG	2:B:2152:HIS:C[1_565]	1.91	0.29
1:A:606:PRO:CA	2:B:2102:ILE:CG1[1_565]	1.91	0.29
1:A:611:SER:CB	2:B:2071:ILE:O[1_565]	1.91	0.29
1:A:612:ASN:C	2:B:2149:ILE:C[1_565]	1.91	0.29
1:A:612:ASN:O	2:B:2149:ILE:CD1[1_565]	1.91	0.29
1:A:613:ILE:C	2:B:2149:ILE:N[1_565]	1.91	0.29
1:A:634:VAL:CA	2:B:2308:ILE:CG2[1_565]	1.91	0.29
1:A:636:TYR:CZ	2:B:2305:TYR:O[1_565]	1.91	0.29
1:A:639:ILE:O	2:B:2299:PRO:O[1_565]	1.91	0.29
1:A:659:LYS:CD	2:B:2271:TRP:CD1[1_565]	1.91	0.29
1:A:680:MET:N	2:B:2262:ILE:C[1_565]	1.91	0.29
1:A:702:MET:SD	2:B:2108:ASP:O[1_565]	1.91	0.29
1:A:705:LEU:O	2:B:2284:GLN:CG[1_565]	1.91	0.29
1:A:706:LEU:CB	2:B:2283:PHE:CA[1_565]	1.91	0.29
1:A:706:LEU:CG	2:B:2283:PHE:CA[1_565]	1.91	0.29
1:A:394:ASP:OD1	2:B:2034:ASP:CB[1_565]	1.92	0.28
1:A:423:TYR:CE1	2:B:2073:VAL:CB[1_565]	1.92	0.28
1:A:424:LYS:CG	2:B:2024:PRO:CA[1_565]	1.92	0.28
1:A:452:LEU:CB	2:B:2176:MET:N[1_565]	1.92	0.28
1:A:455:GLY:O	2:B:2327:GLU:OE2[1_565]	1.92	0.28
1:A:527:ARG:C	2:B:2304:ARG:CA[1_565]	1.92	0.28
1:A:543:LEU:CB	2:B:2080:ILE:CG1[1_565]	1.92	0.28
1:A:547:LEU:O	2:B:2171:LEU:O[1_565]	1.92	0.28
1:A:563:GLY:C	2:B:2190:ILE:N[1_565]	1.92	0.28
1:A:590:ASN:ND2	2:B:2166:LEU:N[1_565]	1.92	0.28
1:A:591:ILE:CA	2:B:2085:LYS:C[1_565]	1.92	0.28
1:A:594:PHE:C	2:B:2052:ARG:O[1_565]	1.92	0.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:599:ALA:O	2:B:2097:TYR:CE2[1_565]	1.92	0.28
1:A:601:VAL:CB	2:B:2129:ASN:N[1_565]	1.92	0.28
1:A:611:SER:OG	2:B:2071:ILE:C[1_565]	1.92	0.28
1:A:629:VAL:N	2:B:2285:GLY:C[1_565]	1.92	0.28
1:A:632:HIS:CE1	2:B:2225:ASN:C[1_565]	1.92	0.28
1:A:632:HIS:NE2	2:B:2225:ASN:N[1_565]	1.92	0.28
1:A:653:PHE:C	2:B:2280:VAL:C[1_565]	1.92	0.28
1:A:656:TYR:CA	2:B:2280:VAL:CG2[1_565]	1.92	0.28
1:A:659:LYS:N	2:B:2273:LEU:CB[1_565]	1.92	0.28
1:A:659:LYS:CD	2:B:2271:TRP:CD2[1_565]	1.92	0.28
1:A:677:THR:CA	2:B:2301:LEU:CG[1_565]	1.92	0.28
1:A:682:MET:N	2:B:2310:PRO:N[1_565]	1.92	0.28
1:A:684:ASN:N	2:B:2311:GLN:CG[1_565]	1.92	0.28
1:A:700:ARG:NE	2:B:2112:TRP:CD1[1_565]	1.92	0.28
1:A:406:SER:OG	2:B:2038:THR:OG1[1_565]	1.93	0.27
1:A:410:GLN:CD	2:B:2070:TRP:CG[1_565]	1.93	0.27
1:A:410:GLN:CB	2:B:2070:TRP:CE3[1_565]	1.93	0.27
1:A:411:TYR:CD1	2:B:2072:LYS:CE[1_565]	1.93	0.27
1:A:445:GLU:CA	2:B:2294:VAL:CG1[1_565]	1.93	0.27
1:A:546:GLY:C	2:B:2170:ASP:C[1_565]	1.93	0.27
1:A:557:GLU:N	2:B:2235:GLN:CB[1_565]	1.93	0.27
1:A:564:ASN:OD1	2:B:2186:SER:O[1_565]	1.93	0.27
1:A:574:ILE:CA	2:B:2296:SER:C[1_565]	1.93	0.27
1:A:580:ASP:OD1	2:B:2105:TYR:CG[1_565]	1.93	0.27
1:A:580:ASP:CG	2:B:2105:TYR:CD2[1_565]	1.93	0.27
1:A:582:ASN:C	2:B:2140:PHE:CD1[1_565]	1.93	0.27
1:A:586:TYR:CE2	2:B:2024:PRO:N[1_565]	1.93	0.27
1:A:588:THR:N	2:B:2084:ILE:O[1_565]	1.93	0.27
1:A:591:ILE:CG1	2:B:2085:LYS:C[1_565]	1.93	0.27
1:A:592:GLN:NE2	2:B:2135:ILE:CB[1_565]	1.93	0.27
1:A:608:PHE:N	2:B:2152:HIS:CB[1_565]	1.93	0.27
1:A:609:GLN:O	2:B:2104:MET:N[1_565]	1.93	0.27
1:A:615:HIS:ND1	2:B:2106:SER:CB[1_565]	1.93	0.27
1:A:615:HIS:N	2:B:2148:TYR:CB[1_565]	1.93	0.27
1:A:620:TYR:N	2:B:2076:LEU:C[1_565]	1.93	0.27
1:A:640:LEU:N	2:B:2299:PRO:CA[1_565]	1.93	0.27
1:A:658:PHE:CD1	2:B:2274:PHE:N[1_565]	1.93	0.27
1:A:659:LYS:CA	2:B:2272:THR:C[1_565]	1.93	0.27
1:A:660:HIS:CA	2:B:2272:THR:CB[1_565]	1.93	0.27
1:A:667:THR:N	2:B:2275:PHE:CE2[1_565]	1.93	0.27
1:A:681:SER:CB	2:B:2309:HIS:CG[1_565]	1.93	0.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:690:LEU:CG	2:B:2281:LYS:CD[1_565]	1.93	0.27
1:A:692:CYS:SG	2:B:2110:LYS:CE[1_565]	1.93	0.27
1:A:694:ASN:C	2:B:2110:LYS:CD[1_565]	1.93	0.27
1:A:711:CYS:C	2:B:2256:TYR:N[1_565]	1.93	0.27
1:A:712:ASP:OD2	2:B:2255:MET:SD[1_565]	1.93	0.27
1:A:396:ALA:N	2:B:2034:ASP:OD2[1_565]	1.94	0.26
1:A:409:SER:CB	2:B:2037:ILE:CG1[1_565]	1.94	0.26
1:A:409:SER:O	2:B:2037:ILE:N[1_565]	1.94	0.26
1:A:409:SER:O	2:B:2037:ILE:CD1[1_565]	1.94	0.26
1:A:410:GLN:NE2	2:B:2070:TRP:CG[1_565]	1.94	0.26
1:A:411:TYR:C	2:B:2072:LYS:O[1_565]	1.94	0.26
1:A:413:ASN:C	2:B:2162:LEU:CD2[1_565]	1.94	0.26
1:A:416:PRO:CB	2:B:2062:TRP:C[1_565]	1.94	0.26
1:A:423:TYR:O	2:B:2026:GLY:C[1_565]	1.94	0.26
1:A:439:ARG:CB	4:D:2:BMA:C6[1_565]	1.94	0.26
1:A:467:ASN:ND2	2:B:2020:LYS:CB[1_565]	1.94	0.26
1:A:473:TYR:CD2	2:B:2021:CYS:CA[1_565]	1.94	0.26
1:A:529:LEU:C	2:B:2238:MET:O[1_565]	1.94	0.26
1:A:550:PRO:N	2:B:2173:SER:OG[1_565]	1.94	0.26
1:A:576:PHE:CD2	2:B:2298:ASP:OD1[1_565]	1.94	0.26
1:A:578:VAL:CG2	2:B:2108:ASP:N[1_565]	1.94	0.26
1:A:586:TYR:CD2	2:B:2024:PRO:N[1_565]	1.94	0.26
1:A:598:PRO:CD	2:B:2088:GLY:N[1_565]	1.94	0.26
1:A:602:GLN:CD	2:B:2098:ILE:CG2[1_565]	1.94	0.26
1:A:604:GLU:N	2:B:2101:PHE:O[1_565]	1.94	0.26
1:A:607:GLU:OE1	2:B:2153:PRO:O[1_565]	1.94	0.26
1:A:629:VAL:CB	2:B:2260:PHE:CE2[1_565]	1.94	0.26
1:A:636:TYR:OH	2:B:2306:LEU:N[1_565]	1.94	0.26
1:A:638:TYR:CB	2:B:2240:VAL:O[1_565]	1.94	0.26
1:A:656:TYR:CE1	2:B:2311:GLN:CG[1_565]	1.94	0.26
1:A:656:TYR:CG	2:B:2261:LEU:CG[1_565]	1.94	0.26
1:A:659:LYS:C	2:B:2272:THR:N[1_565]	1.94	0.26
1:A:679:PHE:C	2:B:2262:ILE:C[1_565]	1.94	0.26
1:A:680:MET:CA	2:B:2262:ILE:C[1_565]	1.94	0.26
1:A:697:PHE:CG	2:B:2110:LYS:CB[1_565]	1.94	0.26
1:A:390:GLU:CA	2:B:2018:SER:C[1_565]	1.95	0.25
1:A:402:PRO:CG	2:B:2036:GLN:NE2[1_565]	1.95	0.25
1:A:403:ASP:OD2	2:B:2046:TRP:NE1[1_565]	1.95	0.25
1:A:413:ASN:CG	2:B:2164:MET:SD[1_565]	1.95	0.25
1:A:417:GLN:NE2	2:B:2050:LEU:C[1_565]	1.95	0.25
1:A:422:LYS:CA	2:B:2031:HIS:CD2[1_565]	1.95	0.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:TYR:O	2:B:2026:GLY:O[1_565]	1.95	0.25
1:A:426:VAL:CG1	2:B:2168:GLY:O[1_565]	1.95	0.25
1:A:438:THR:C	4:D:2:BMA:C6[1_565]	1.95	0.25
1:A:473:TYR:N	2:B:2020:LYS:C[1_565]	1.95	0.25
1:A:519:ASP:C	2:B:2329:GLN:CB[1_565]	1.95	0.25
1:A:520:GLY:N	2:B:2330:ASP:CA[1_565]	1.95	0.25
1:A:530:THR:C	2:B:2239:LYS:CG[1_565]	1.95	0.25
1:A:531:ARG:N	2:B:2239:LYS:CE[1_565]	1.95	0.25
1:A:543:LEU:O	2:B:2080:ILE:CA[1_565]	1.95	0.25
1:A:553:ILE:CB	2:B:2328:ALA:O[1_565]	1.95	0.25
1:A:556:LYS:O	2:B:2235:GLN:CA[1_565]	1.95	0.25
1:A:557:GLU:CA	2:B:2235:GLN:CG[1_565]	1.95	0.25
1:A:569:ASP:OD2	2:B:2230:LEU:CD1[1_565]	1.95	0.25
1:A:574:ILE:CG2	2:B:2298:ASP:N[1_565]	1.95	0.25
1:A:577:SER:CB	2:B:2078:PRO:CD[1_565]	1.95	0.25
1:A:589:GLU:CG	2:B:2167:MET:CE[1_565]	1.95	0.25
1:A:592:GLN:CG	2:B:2135:ILE:CG1[1_565]	1.95	0.25
1:A:593:ARG:CA	2:B:2053:LEU:CA[1_565]	1.95	0.25
1:A:598:PRO:C	2:B:2131:ASP:O[1_565]	1.95	0.25
1:A:605:ASP:OD2	2:B:2153:PRO:O[1_565]	1.95	0.25
1:A:628:SER:OG	2:B:2285:GLY:O[1_565]	1.95	0.25
1:A:654:SER:N	2:B:2280:VAL:O[1_565]	1.95	0.25
1:A:680:MET:O	2:B:2308:ILE:C[1_565]	1.95	0.25
1:A:682:MET:C	2:B:2309:HIS:C[1_565]	1.95	0.25
1:A:683:GLU:CA	2:B:2310:PRO:C[1_565]	1.95	0.25
1:A:692:CYS:O	2:B:2277:ASN:CG[1_565]	1.95	0.25
1:A:696:ASP:O	2:B:2110:LYS:C[1_565]	1.95	0.25
1:A:700:ARG:NE	2:B:2112:TRP:NE1[1_565]	1.95	0.25
1:A:707:LYS:C	2:B:2258:LYS:C[1_565]	1.95	0.25
1:A:708:VAL:CG1	2:B:2259:GLU:CA[1_565]	1.95	0.25
1:A:709:SER:N	2:B:2258:LYS:CA[1_565]	1.95	0.25
1:A:713:LYS:CE	2:B:2218:ALA:CB[1_565]	1.95	0.25
1:A:143:GLU:OE2	1:A:466:LYS:NZ[1_545]	1.96	0.24
1:A:394:ASP:N	2:B:2031:HIS:CE1[1_565]	1.96	0.24
1:A:403:ASP:C	2:B:2041:GLY:O[1_565]	1.96	0.24
1:A:403:ASP:CG	2:B:2046:TRP:CZ2[1_565]	1.96	0.24
1:A:406:SER:O	2:B:2038:THR:N[1_565]	1.96	0.24
1:A:410:GLN:CD	2:B:2040:SER:OG[1_565]	1.96	0.24
1:A:411:TYR:OH	2:B:2112:TRP:CH2[1_565]	1.96	0.24
1:A:424:LYS:N	2:B:2165:GLU:OE2[1_565]	1.96	0.24
1:A:527:ARG:N	2:B:2304:ARG:N[1_565]	1.96	0.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:ARG:CB	2:B:2304:ARG:CD[1_565]	1.96	0.24
1:A:533:TYR:CE1	2:B:2172:ASN:O[1_565]	1.96	0.24
1:A:543:LEU:CD1	2:B:2171:LEU:CD1[1_565]	1.96	0.24
1:A:544:ALA:N	2:B:2080:ILE:CG1[1_565]	1.96	0.24
1:A:545:SER:C	2:B:2169:CYS:CA[1_565]	1.96	0.24
1:A:565:GLN:N	2:B:2188:ALA:C[1_565]	1.96	0.24
1:A:570:LYS:O	2:B:2321:MET:CE[1_565]	1.96	0.24
1:A:573:VAL:C	2:B:2296:SER:CB[1_565]	1.96	0.24
1:A:573:VAL:CA	2:B:2242:GLY:CA[1_565]	1.96	0.24
1:A:584:SER:CB	2:B:2081:ILE:CA[1_565]	1.96	0.24
1:A:591:ILE:O	2:B:2163:ARG:O[1_565]	1.96	0.24
1:A:592:GLN:NE2	2:B:2135:ILE:N[1_565]	1.96	0.24
1:A:593:ARG:NE	2:B:2015:LEU:CD2[1_565]	1.96	0.24
1:A:595:LEU:CB	2:B:2163:ARG:N[1_565]	1.96	0.24
1:A:601:VAL:CB	2:B:2129:ASN:CB[1_565]	1.96	0.24
1:A:602:GLN:CB	2:B:2099:SER:N[1_565]	1.96	0.24
1:A:609:GLN:CG	2:B:2103:ILE:CA[1_565]	1.96	0.24
1:A:611:SER:CA	2:B:2071:ILE:O[1_565]	1.96	0.24
1:A:632:HIS:N	2:B:2310:PRO:CG[1_565]	1.96	0.24
1:A:653:PHE:CD1	2:B:2281:LYS:CD[1_565]	1.96	0.24
1:A:653:PHE:CA	2:B:2280:VAL:C[1_565]	1.96	0.24
1:A:679:PHE:C	2:B:2263:SER:C[1_565]	1.96	0.24
1:A:682:MET:CB	2:B:2260:PHE:CB[1_565]	1.96	0.24
1:A:712:ASP:OD1	2:B:2255:MET:N[1_565]	1.96	0.24
1:A:713:LYS:N	2:B:2248:VAL:CG1[1_565]	1.96	0.24
1:A:417:GLN:N	2:B:2062:TRP:CA[1_565]	1.97	0.23
1:A:417:GLN:NE2	2:B:2051:ALA:N[1_565]	1.97	0.23
1:A:422:LYS:CE	2:B:2030:GLY:N[1_565]	1.97	0.23
1:A:424:LYS:CG	2:B:2024:PRO:C[1_565]	1.97	0.23
1:A:439:ARG:C	4:D:2:BMA:O6[1_565]	1.97	0.23
1:A:442:ILE:CD1	4:D:1:NAG:C8[1_565]	1.97	0.23
1:A:452:LEU:N	2:B:2176:MET:CA[1_565]	1.97	0.23
1:A:468:GLN:C	2:B:1936:GLN:OE1[1_565]	1.97	0.23
1:A:471:ARG:O	2:B:2021:CYS:N[1_565]	1.97	0.23
1:A:521:PRO:C	2:B:2331:LEU:C[1_565]	1.97	0.23
1:A:525:ASP:O	2:B:2266:GLN:O[1_565]	1.97	0.23
1:A:528:CYS:N	2:B:2304:ARG:N[1_565]	1.97	0.23
1:A:532:TYR:CA	2:B:2239:LYS:NZ[1_565]	1.97	0.23
1:A:541:ARG:C	2:B:2082:HIS:NE2[1_565]	1.97	0.23
1:A:552:LEU:CD2	2:B:2178:LEU:CD1[1_565]	1.97	0.23
1:A:563:GLY:C	2:B:2189:GLN:O[1_565]	1.97	0.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:573:VAL:CB	2:B:2242:GLY:N[1_565]	1.97	0.23
1:A:578:VAL:CB	2:B:2106:SER:C[1_565]	1.97	0.23
1:A:587:LEU:N	2:B:2083:GLY:C[1_565]	1.97	0.23
1:A:593:ARG:CB	2:B:2053:LEU:CB[1_565]	1.97	0.23
1:A:599:ALA:CB	2:B:2131:ASP:O[1_565]	1.97	0.23
1:A:605:ASP:C	2:B:2102:ILE:CB[1_565]	1.97	0.23
1:A:609:GLN:CA	2:B:2102:ILE:O[1_565]	1.97	0.23
1:A:611:SER:C	2:B:2149:ILE:C[1_565]	1.97	0.23
1:A:627:LEU:C	2:B:2284:GLN:C[1_565]	1.97	0.23
1:A:639:ILE:CD1	2:B:2274:PHE:CD2[1_565]	1.97	0.23
1:A:640:LEU:CG	2:B:2300:PRO:CD[1_565]	1.97	0.23
1:A:640:LEU:CD2	2:B:2300:PRO:CG[1_565]	1.97	0.23
1:A:678:VAL:N	2:B:2301:LEU:CD2[1_565]	1.97	0.23
1:A:683:GLU:O	2:B:2226:PRO:CB[1_565]	1.97	0.23
1:A:693:HIS:N	2:B:2277:ASN:O[1_565]	1.97	0.23
1:A:708:VAL:CA	2:B:2259:GLU:CA[1_565]	1.97	0.23
1:A:389:GLU:CG	2:B:1937:ASP:OD1[1_565]	1.98	0.22
1:A:394:ASP:N	2:B:2031:HIS:CG[1_565]	1.98	0.22
1:A:410:GLN:C	2:B:2037:ILE:CG2[1_565]	1.98	0.22
1:A:414:ASN:N	2:B:2071:ILE:CG1[1_565]	1.98	0.22
1:A:416:PRO:CA	2:B:2062:TRP:CB[1_565]	1.98	0.22
1:A:417:GLN:CG	2:B:2050:LEU:C[1_565]	1.98	0.22
1:A:417:GLN:OE1	2:B:2050:LEU:CA[1_565]	1.98	0.22
1:A:417:GLN:CB	2:B:2051:ALA:C[1_565]	1.98	0.22
1:A:424:LYS:CA	2:B:2025:LEU:C[1_565]	1.98	0.22
1:A:452:LEU:O	2:B:2176:MET:CB[1_565]	1.98	0.22
1:A:454:TYR:CG	2:B:2178:LEU:CD2[1_565]	1.98	0.22
1:A:526:PRO:CD	2:B:2266:GLN:CG[1_565]	1.98	0.22
1:A:528:CYS:CB	2:B:2303:THR:O[1_565]	1.98	0.22
1:A:548:ILE:C	2:B:2172:ASN:N[1_565]	1.98	0.22
1:A:557:GLU:CB	2:B:2235:GLN:OE1[1_565]	1.98	0.22
1:A:566:ILE:CB	2:B:2206:SER:CB[1_565]	1.98	0.22
1:A:566:ILE:CD1	2:B:2204:SER:CB[1_565]	1.98	0.22
1:A:570:LYS:N	2:B:2180:MET:CE[1_565]	1.98	0.22
1:A:572:ASN:CA	2:B:2242:GLY:CA[1_565]	1.98	0.22
1:A:573:VAL:N	2:B:2241:THR:C[1_565]	1.98	0.22
1:A:580:ASP:OD1	2:B:2105:TYR:CD2[1_565]	1.98	0.22
1:A:583:ARG:CG	2:B:2142:PRO:O[1_565]	1.98	0.22
1:A:583:ARG:O	2:B:2082:HIS:CA[1_565]	1.98	0.22
1:A:583:ARG:CG	2:B:2143:PRO:C[1_565]	1.98	0.22
1:A:584:SER:OG	2:B:2167:MET:C[1_565]	1.98	0.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:584:SER:CA	2:B:2082:HIS:CA[1_565]	1.98	0.22
1:A:585:TRP:N	2:B:2082:HIS:N[1_565]	1.98	0.22
1:A:586:TYR:CE1	2:B:2022:GLN:CA[1_565]	1.98	0.22
1:A:587:LEU:CD2	2:B:2139:ILE:N[1_565]	1.98	0.22
1:A:588:THR:C	2:B:2085:LYS:N[1_565]	1.98	0.22
1:A:593:ARG:CD	2:B:2015:LEU:CD2[1_565]	1.98	0.22
1:A:594:PHE:CG	2:B:2052:ARG:CB[1_565]	1.98	0.22
1:A:594:PHE:C	2:B:2053:LEU:N[1_565]	1.98	0.22
1:A:594:PHE:N	2:B:2053:LEU:CA[1_565]	1.98	0.22
1:A:595:LEU:CD2	2:B:2162:LEU:CB[1_565]	1.98	0.22
1:A:596:PRO:CD	2:B:2163:ARG:CB[1_565]	1.98	0.22
1:A:598:PRO:CB	2:B:2134:GLY:O[1_565]	1.98	0.22
1:A:605:ASP:CB	2:B:2102:ILE:N[1_565]	1.98	0.22
1:A:614:MET:N	2:B:2149:ILE:N[1_565]	1.98	0.22
1:A:615:HIS:O	2:B:2148:TYR:CD1[1_565]	1.98	0.22
1:A:633:GLU:C	2:B:2308:ILE:CG2[1_565]	1.98	0.22
1:A:659:LYS:O	2:B:2264:SER:C[1_565]	1.98	0.22
1:A:662:MET:CG	2:B:2267:ASP:CG[1_565]	1.98	0.22
1:A:707:LYS:O	2:B:2258:LYS:C[1_565]	1.98	0.22
1:A:402:PRO:CA	2:B:2036:GLN:CD[1_565]	1.99	0.21
1:A:412:LEU:N	2:B:2072:LYS:C[1_565]	1.99	0.21
1:A:413:ASN:CG	2:B:2164:MET:CG[1_565]	1.99	0.21
1:A:425:LYS:CA	2:B:2025:LEU:CA[1_565]	1.99	0.21
1:A:451:PRO:C	2:B:2175:SER:CA[1_565]	1.99	0.21
1:A:454:TYR:CE2	2:B:2178:LEU:O[1_565]	1.99	0.21
1:A:473:TYR:N	2:B:2020:LYS:O[1_565]	1.99	0.21
1:A:533:TYR:CG	2:B:2172:ASN:O[1_565]	1.99	0.21
1:A:546:GLY:C	2:B:2170:ASP:CB[1_565]	1.99	0.21
1:A:550:PRO:C	2:B:2174:CYS:N[1_565]	1.99	0.21
1:A:573:VAL:N	2:B:2242:GLY:C[1_565]	1.99	0.21
1:A:575:LEU:N	2:B:2297:LEU:O[1_565]	1.99	0.21
1:A:576:PHE:CZ	2:B:2298:ASP:CB[1_565]	1.99	0.21
1:A:578:VAL:CA	2:B:2147:ARG:N[1_565]	1.99	0.21
1:A:585:TRP:CB	2:B:2082:HIS:CB[1_565]	1.99	0.21
1:A:591:ILE:CD1	2:B:2086:THR:CB[1_565]	1.99	0.21
1:A:595:LEU:N	2:B:2163:ARG:C[1_565]	1.99	0.21
1:A:599:ALA:CA	2:B:2132:SER:N[1_565]	1.99	0.21
1:A:604:GLU:CD	2:B:2125:VAL:CG1[1_565]	1.99	0.21
1:A:608:PHE:CB	2:B:2152:HIS:N[1_565]	1.99	0.21
1:A:610:ALA:CA	2:B:2150:ARG:CB[1_565]	1.99	0.21
1:A:611:SER:O	2:B:2071:ILE:O[1_565]	1.99	0.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:614:MET:CB	2:B:2148:TYR:CA[1_565]	1.99	0.21
1:A:615:HIS:N	2:B:2148:TYR:N[1_565]	1.99	0.21
1:A:627:LEU:O	2:B:2285:GLY:N[1_565]	1.99	0.21
1:A:634:VAL:CA	2:B:2308:ILE:C[1_565]	1.99	0.21
1:A:636:TYR:N	2:B:2306:LEU:CG[1_565]	1.99	0.21
1:A:638:TYR:CB	2:B:2240:VAL:CA[1_565]	1.99	0.21
1:A:652:PHE:N	2:B:2276:GLN:N[1_565]	1.99	0.21
1:A:652:PHE:C	2:B:2279:LYS:O[1_565]	1.99	0.21
1:A:679:PHE:CG	2:B:2263:SER:O[1_565]	1.99	0.21
1:A:679:PHE:CD1	2:B:2307:ARG:CG[1_565]	1.99	0.21
1:A:681:SER:C	2:B:2309:HIS:C[1_565]	1.99	0.21
1:A:697:PHE:CD2	2:B:2110:LYS:CB[1_565]	1.99	0.21
1:A:697:PHE:N	2:B:2110:LYS:N[1_565]	1.99	0.21
1:A:702:MET:CE	2:B:2108:ASP:CA[1_565]	1.99	0.21
1:A:709:SER:OG	2:B:2258:LYS:CB[1_565]	1.99	0.21
1:A:713:LYS:CG	2:B:2218:ALA:CB[1_565]	1.99	0.21
1:A:395:TYR:CE1	2:B:2075:LEU:CD2[1_565]	2.00	0.20
1:A:406:SER:N	2:B:2038:THR:CA[1_565]	2.00	0.20
1:A:408:LYS:O	2:B:2037:ILE:O[1_565]	2.00	0.20
1:A:409:SER:CA	2:B:2038:THR:N[1_565]	2.00	0.20
1:A:409:SER:C	2:B:2037:ILE:CG2[1_565]	2.00	0.20
1:A:416:PRO:N	2:B:2162:LEU:N[1_565]	2.00	0.20
1:A:421:ARG:NE	2:B:2036:GLN:N[1_565]	2.00	0.20
1:A:422:LYS:CE	2:B:2028:ALA:O[1_565]	2.00	0.20
1:A:426:VAL:CG2	2:B:2019:ASN:C[1_565]	2.00	0.20
1:A:439:ARG:CA	4:D:4:BMA:C1[1_565]	2.00	0.20
1:A:451:PRO:C	2:B:2175:SER:N[1_565]	2.00	0.20
1:A:452:LEU:CA	2:B:2175:SER:C[1_565]	2.00	0.20
1:A:457:VAL:CB	2:B:2330:ASP:OD2[1_565]	2.00	0.20
1:A:519:ASP:CA	2:B:2329:GLN:CB[1_565]	2.00	0.20
1:A:522:THR:N	2:B:2331:LEU:CD1[1_565]	2.00	0.20
1:A:527:ARG:CG	2:B:2304:ARG:NE[1_565]	2.00	0.20
1:A:540:GLU:C	2:B:2143:PRO:CB[1_565]	2.00	0.20
1:A:544:ALA:N	2:B:2080:ILE:CG2[1_565]	2.00	0.20
1:A:545:SER:O	2:B:2168:GLY:C[1_565]	2.00	0.20
1:A:548:ILE:N	2:B:2170:ASP:C[1_565]	2.00	0.20
1:A:549:GLY:O	2:B:2173:SER:C[1_565]	2.00	0.20
1:A:552:LEU:N	2:B:2326:CYS:CA[1_565]	2.00	0.20
1:A:567:MET:CE	2:B:2208:ALA:C[1_565]	2.00	0.20
1:A:573:VAL:O	2:B:2296:SER:OG[1_565]	2.00	0.20
1:A:573:VAL:C	2:B:2297:LEU:N[1_565]	2.00	0.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:579:PHE:CE2	2:B:2078:PRO:N[1_565]	2.00	0.20
1:A:585:TRP:CB	2:B:2082:HIS:CG[1_565]	2.00	0.20
1:A:591:ILE:CG1	2:B:2086:THR:O[1_565]	2.00	0.20
1:A:594:PHE:CB	2:B:2052:ARG:CA[1_565]	2.00	0.20
1:A:597:ASN:N	2:B:2088:GLY:O[1_565]	2.00	0.20
1:A:603:LEU:CB	2:B:2101:PHE:CE2[1_565]	2.00	0.20
1:A:603:LEU:CD2	2:B:2127:PHE:O[1_565]	2.00	0.20
1:A:607:GLU:CA	2:B:2152:HIS:CD2[1_565]	2.00	0.20
1:A:608:PHE:O	2:B:2150:ARG:C[1_565]	2.00	0.20
1:A:611:SER:N	2:B:2150:ARG:O[1_565]	2.00	0.20
1:A:612:ASN:C	2:B:2149:ILE:CG2[1_565]	2.00	0.20
1:A:612:ASN:CB	2:B:2149:ILE:CG2[1_565]	2.00	0.20
1:A:613:ILE:N	2:B:2149:ILE:C[1_565]	2.00	0.20
1:A:627:LEU:CG	2:B:2295:ASN:CA[1_565]	2.00	0.20
1:A:635:ALA:CA	2:B:2308:ILE:CG1[1_565]	2.00	0.20
1:A:635:ALA:CB	2:B:2308:ILE:CG1[1_565]	2.00	0.20
1:A:651:VAL:O	2:B:2276:GLN:O[1_565]	2.00	0.20
1:A:680:MET:SD	2:B:2261:LEU:C[1_565]	2.00	0.20
1:A:682:MET:C	2:B:2309:HIS:O[1_565]	2.00	0.20
1:A:706:LEU:CA	2:B:2284:GLN:CA[1_565]	2.00	0.20
1:A:706:LEU:CD1	2:B:2283:PHE:O[1_565]	2.00	0.20
1:A:139:GLN:NE2	1:A:504:LEU:CB[1_545]	2.01	0.19
1:A:395:TYR:CA	2:B:2074:ASP:O[1_565]	2.01	0.19
1:A:395:TYR:CE1	2:B:2075:LEU:C[1_565]	2.01	0.19
1:A:410:GLN:CD	2:B:2040:SER:CB[1_565]	2.01	0.19
1:A:411:TYR:CB	2:B:2072:LYS:C[1_565]	2.01	0.19
1:A:416:PRO:O	2:B:2062:TRP:CD1[1_565]	2.01	0.19
1:A:424:LYS:CB	2:B:2024:PRO:CB[1_565]	2.01	0.19
1:A:443:GLN:NE2	2:B:2244:THR:OG1[1_565]	2.01	0.19
1:A:468:GLN:CA	2:B:1991:SER:OG[1_565]	2.01	0.19
1:A:473:TYR:CZ	2:B:2021:CYS:CB[1_565]	2.01	0.19
1:A:521:PRO:CG	2:B:2237:THR:N[1_565]	2.01	0.19
1:A:547:LEU:N	2:B:2169:CYS:C[1_565]	2.01	0.19
1:A:548:ILE:CG2	2:B:2170:ASP:CG[1_565]	2.01	0.19
1:A:548:ILE:C	2:B:2172:ASN:CA[1_565]	2.01	0.19
1:A:549:GLY:C	2:B:2174:CYS:N[1_565]	2.01	0.19
1:A:571:ARG:NH1	2:B:2323:VAL:C[1_565]	2.01	0.19
1:A:574:ILE:CA	2:B:2297:LEU:C[1_565]	2.01	0.19
1:A:574:ILE:CB	2:B:2296:SER:O[1_565]	2.01	0.19
1:A:593:ARG:C	2:B:2053:LEU:C[1_565]	2.01	0.19
1:A:596:PRO:N	2:B:2163:ARG:CA[1_565]	2.01	0.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:596:PRO:CA	2:B:2163:ARG:CB[1_565]	2.01	0.19
1:A:599:ALA:C	2:B:2097:TYR:CD2[1_565]	2.01	0.19
1:A:607:GLU:CB	2:B:2152:HIS:ND1[1_565]	2.01	0.19
1:A:611:SER:C	2:B:2150:ARG:N[1_565]	2.01	0.19
1:A:616:SER:C	2:B:2147:ARG:NE[1_565]	2.01	0.19
1:A:619:GLY:O	2:B:2075:LEU:C[1_565]	2.01	0.19
1:A:620:TYR:C	2:B:2147:ARG:NH2[1_565]	2.01	0.19
1:A:651:VAL:C	2:B:2276:GLN:N[1_565]	2.01	0.19
1:A:659:LYS:O	2:B:2272:THR:O[1_565]	2.01	0.19
1:A:680:MET:CA	2:B:2263:SER:N[1_565]	2.01	0.19
1:A:690:LEU:CB	2:B:2281:LYS:CE[1_565]	2.01	0.19
1:A:712:ASP:N	2:B:2318:ALA:CB[1_565]	2.01	0.19
1:A:391:GLU:CA	2:B:2018:SER:N[1_565]	2.02	0.18
1:A:392:ASP:CG	2:B:2029:SER:N[1_565]	2.02	0.18
1:A:407:TYR:O	2:B:2070:TRP:CZ3[1_565]	2.02	0.18
1:A:411:TYR:CE1	2:B:2072:LYS:CE[1_565]	2.02	0.18
1:A:411:TYR:CE2	2:B:2072:LYS:CD[1_565]	2.02	0.18
1:A:419:ILE:CA	2:B:2049:LYS:N[1_565]	2.02	0.18
1:A:419:ILE:CG2	2:B:2049:LYS:CG[1_565]	2.02	0.18
1:A:424:LYS:CB	2:B:2024:PRO:C[1_565]	2.02	0.18
1:A:444:HIS:C	2:B:2294:VAL:CG2[1_565]	2.02	0.18
1:A:451:PRO:C	2:B:2176:MET:N[1_565]	2.02	0.18
1:A:520:GLY:N	2:B:2329:GLN:CA[1_565]	2.02	0.18
1:A:545:SER:CB	2:B:2168:GLY:C[1_565]	2.02	0.18
1:A:549:GLY:CA	2:B:2172:ASN:C[1_565]	2.02	0.18
1:A:566:ILE:C	2:B:2206:SER:C[1_565]	2.02	0.18
1:A:570:LYS:O	2:B:2323:VAL:CG2[1_565]	2.02	0.18
1:A:570:LYS:C	2:B:2323:VAL:CG2[1_565]	2.02	0.18
1:A:570:LYS:C	2:B:2322:GLU:C[1_565]	2.02	0.18
1:A:583:ARG:C	2:B:2140:PHE:CD2[1_565]	2.02	0.18
1:A:589:GLU:O	2:B:2085:LYS:CD[1_565]	2.02	0.18
1:A:602:GLN:CG	2:B:2098:ILE:CG1[1_565]	2.02	0.18
1:A:603:LEU:C	2:B:2126:PHE:O[1_565]	2.02	0.18
1:A:609:GLN:CD	2:B:2103:ILE:CB[1_565]	2.02	0.18
1:A:614:MET:CA	2:B:2148:TYR:CB[1_565]	2.02	0.18
1:A:628:SER:OG	2:B:2285:GLY:C[1_565]	2.02	0.18
1:A:630:CYS:N	2:B:2257:VAL:O[1_565]	2.02	0.18
1:A:644:ALA:O	2:B:2107:LEU:CD2[1_565]	2.02	0.18
1:A:651:VAL:O	2:B:2276:GLN:C[1_565]	2.02	0.18
1:A:652:PHE:C	2:B:2276:GLN:CG[1_565]	2.02	0.18
1:A:658:PHE:CA	2:B:2273:LEU:CD1[1_565]	2.02	0.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:677:THR:C	2:B:2301:LEU:CG[1_565]	2.02	0.18
1:A:679:PHE:N	2:B:2263:SER:O[1_565]	2.02	0.18
1:A:679:PHE:CD2	2:B:2307:ARG:C[1_565]	2.02	0.18
1:A:680:MET:CA	2:B:2309:HIS:CD2[1_565]	2.02	0.18
1:A:685:PRO:CB	2:B:2312:SER:CB[1_565]	2.02	0.18
1:A:697:PHE:N	2:B:2110:LYS:CB[1_565]	2.02	0.18
1:A:122:GLU:OE2	1:A:471:ARG:NH2[1_545]	2.03	0.17
1:A:389:GLU:CB	2:B:1937:ASP:OD1[1_565]	2.03	0.17
1:A:390:GLU:OE1	2:B:1993:ALA:CA[1_565]	2.03	0.17
1:A:407:TYR:C	2:B:2038:THR:CG2[1_565]	2.03	0.17
1:A:410:GLN:CD	2:B:2070:TRP:CE2[1_565]	2.03	0.17
1:A:412:LEU:O	2:B:2071:ILE:CG1[1_565]	2.03	0.17
1:A:418:ARG:CB	2:B:2048:PRO:N[1_565]	2.03	0.17
1:A:439:ARG:O	4:D:2:BMA:C6[1_565]	2.03	0.17
1:A:473:TYR:CE2	2:B:2021:CYS:CB[1_565]	2.03	0.17
1:A:520:GLY:C	2:B:2330:ASP:N[1_565]	2.03	0.17
1:A:543:LEU:CA	2:B:2080:ILE:CB[1_565]	2.03	0.17
1:A:553:ILE:CB	2:B:2327:GLU:CA[1_565]	2.03	0.17
1:A:564:ASN:O	2:B:2188:ALA:C[1_565]	2.03	0.17
1:A:567:MET:SD	2:B:2209:ARG:CZ[1_565]	2.03	0.17
1:A:589:GLU:OE1	2:B:2015:LEU:CD1[1_565]	2.03	0.17
1:A:593:ARG:O	2:B:2053:LEU:CB[1_565]	2.03	0.17
1:A:595:LEU:CG	2:B:2162:LEU:CG[1_565]	2.03	0.17
1:A:596:PRO:CG	2:B:2061:ALA:CA[1_565]	2.03	0.17
1:A:597:ASN:N	2:B:2088:GLY:C[1_565]	2.03	0.17
1:A:597:ASN:CA	2:B:2089:ALA:N[1_565]	2.03	0.17
1:A:605:ASP:OD1	2:B:2152:HIS:CA[1_565]	2.03	0.17
1:A:609:GLN:O	2:B:2104:MET:O[1_565]	2.03	0.17
1:A:612:ASN:CA	2:B:2149:ILE:O[1_565]	2.03	0.17
1:A:619:GLY:CA	2:B:2075:LEU:O[1_565]	2.03	0.17
1:A:621:VAL:N	2:B:2076:LEU:CD1[1_565]	2.03	0.17
1:A:631:LEU:C	2:B:2310:PRO:CB[1_565]	2.03	0.17
1:A:652:PHE:C	2:B:2276:GLN:N[1_565]	2.03	0.17
1:A:659:LYS:CA	2:B:2273:LEU:N[1_565]	2.03	0.17
1:A:660:HIS:N	2:B:2272:THR:CB[1_565]	2.03	0.17
1:A:680:MET:O	2:B:2309:HIS:CD2[1_565]	2.03	0.17
1:A:697:PHE:CB	2:B:2110:LYS:CA[1_565]	2.03	0.17
1:A:706:LEU:CA	2:B:2284:GLN:CG[1_565]	2.03	0.17
1:A:390:GLU:CB	2:B:2017:TYR:C[1_565]	2.04	0.16
1:A:392:ASP:CG	2:B:2029:SER:CA[1_565]	2.04	0.16
1:A:394:ASP:OD2	2:B:2031:HIS:CA[1_565]	2.04	0.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:395:TYR:C	2:B:2076:LEU:CD2[1_565]	2.04	0.16
1:A:402:PRO:CG	2:B:2036:GLN:CG[1_565]	2.04	0.16
1:A:404:ASP:CA	2:B:2039:ALA:O[1_565]	2.04	0.16
1:A:404:ASP:O	2:B:2039:ALA:CB[1_565]	2.04	0.16
1:A:408:LYS:C	2:B:2037:ILE:CA[1_565]	2.04	0.16
1:A:410:GLN:C	2:B:2036:GLN:O[1_565]	2.04	0.16
1:A:415:GLY:N	2:B:2062:TRP:CE3[1_565]	2.04	0.16
1:A:419:ILE:CA	2:B:2048:PRO:C[1_565]	2.04	0.16
1:A:421:ARG:N	2:B:2034:ASP:CB[1_565]	2.04	0.16
1:A:423:TYR:N	2:B:2026:GLY:O[1_565]	2.04	0.16
1:A:424:LYS:CA	2:B:2025:LEU:CA[1_565]	2.04	0.16
1:A:437:LYS:CB	4:D:4:BMA:C6[1_565]	2.04	0.16
1:A:452:LEU:C	2:B:2176:MET:N[1_565]	2.04	0.16
1:A:528:CYS:SG	2:B:2238:MET:CB[1_565]	2.04	0.16
1:A:541:ARG:CD	2:B:2140:PHE:O[1_565]	2.04	0.16
1:A:552:LEU:CB	2:B:2326:CYS:C[1_565]	2.04	0.16
1:A:574:ILE:CG1	2:B:2297:LEU:N[1_565]	2.04	0.16
1:A:576:PHE:CB	2:B:2298:ASP:OD1[1_565]	2.04	0.16
1:A:578:VAL:CG1	2:B:2107:LEU:N[1_565]	2.04	0.16
1:A:579:PHE:CD1	2:B:2079:MET:C[1_565]	2.04	0.16
1:A:579:PHE:CG	2:B:2079:MET:N[1_565]	2.04	0.16
1:A:581:GLU:C	2:B:2140:PHE:CE2[1_565]	2.04	0.16
1:A:585:TRP:CG	2:B:2082:HIS:CD2[1_565]	2.04	0.16
1:A:587:LEU:O	2:B:2084:ILE:N[1_565]	2.04	0.16
1:A:596:PRO:C	2:B:2163:ARG:CG[1_565]	2.04	0.16
1:A:596:PRO:CD	2:B:2162:LEU:O[1_565]	2.04	0.16
1:A:601:VAL:CB	2:B:2129:ASN:C[1_565]	2.04	0.16
1:A:603:LEU:CD1	2:B:2138:ASN:ND2[1_565]	2.04	0.16
1:A:604:GLU:OE1	2:B:2125:VAL:C[1_565]	2.04	0.16
1:A:605:ASP:O	2:B:2102:ILE:C[1_565]	2.04	0.16
1:A:605:ASP:O	2:B:2102:ILE:N[1_565]	2.04	0.16
1:A:629:VAL:O	2:B:2257:VAL:C[1_565]	2.04	0.16
1:A:634:VAL:CA	2:B:2308:ILE:O[1_565]	2.04	0.16
1:A:644:ALA:C	2:B:2107:LEU:CG[1_565]	2.04	0.16
1:A:652:PHE:CB	2:B:2276:GLN:CG[1_565]	2.04	0.16
1:A:666:ASP:OD2	2:B:2275:PHE:CE2[1_565]	2.04	0.16
1:A:683:GLU:C	2:B:2311:GLN:CA[1_565]	2.04	0.16
1:A:690:LEU:CD2	2:B:2281:LYS:CD[1_565]	2.04	0.16
1:A:693:HIS:CG	2:B:2277:ASN:O[1_565]	2.04	0.16
1:A:706:LEU:C	2:B:2284:GLN:CD[1_565]	2.04	0.16
1:A:117:GLN:CG	1:A:588:THR:O[1_545]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:GLU:CG	2:B:2023:THR:CB[1_565]	2.05	0.15
1:A:408:LYS:O	2:B:2037:ILE:CA[1_565]	2.05	0.15
1:A:411:TYR:C	2:B:2036:GLN:O[1_565]	2.05	0.15
1:A:417:GLN:CB	2:B:2051:ALA:N[1_565]	2.05	0.15
1:A:417:GLN:C	2:B:2048:PRO:CG[1_565]	2.05	0.15
1:A:420:GLY:CA	2:B:2034:ASP:C[1_565]	2.05	0.15
1:A:422:LYS:N	2:B:2027:MET:CE[1_565]	2.05	0.15
1:A:424:LYS:CE	2:B:2024:PRO:CB[1_565]	2.05	0.15
1:A:431:TYR:CZ	4:D:4:BMA:C3[1_565]	2.05	0.15
1:A:445:GLU:CB	2:B:2294:VAL:N[1_565]	2.05	0.15
1:A:448:ILE:CG2	2:B:2077:ALA:CB[1_565]	2.05	0.15
1:A:470:SER:N	2:B:1992:LYS:CA[1_565]	2.05	0.15
1:A:540:GLU:OE1	2:B:2143:PRO:CG[1_565]	2.05	0.15
1:A:542:ASP:C	2:B:2080:ILE:CD1[1_565]	2.05	0.15
1:A:542:ASP:CA	2:B:2082:HIS:CE1[1_565]	2.05	0.15
1:A:547:LEU:CA	2:B:2171:LEU:N[1_565]	2.05	0.15
1:A:564:ASN:ND2	2:B:2189:GLN:OE1[1_565]	2.05	0.15
1:A:566:ILE:C	2:B:2206:SER:OG[1_565]	2.05	0.15
1:A:568:SER:OG	2:B:2185:ILE:CG2[1_565]	2.05	0.15
1:A:574:ILE:CB	2:B:2296:SER:C[1_565]	2.05	0.15
1:A:574:ILE:N	2:B:2297:LEU:CA[1_565]	2.05	0.15
1:A:576:PHE:CE1	2:B:2298:ASP:CG[1_565]	2.05	0.15
1:A:580:ASP:N	2:B:2146:ALA:CB[1_565]	2.05	0.15
1:A:601:VAL:N	2:B:2129:ASN:N[1_565]	2.05	0.15
1:A:604:GLU:OE1	2:B:2125:VAL:O[1_565]	2.05	0.15
1:A:612:ASN:C	2:B:2149:ILE:CG1[1_565]	2.05	0.15
1:A:614:MET:CE	2:B:2073:VAL:CG2[1_565]	2.05	0.15
1:A:615:HIS:CD2	2:B:2106:SER:CA[1_565]	2.05	0.15
1:A:636:TYR:CG	2:B:2306:LEU:CD1[1_565]	2.05	0.15
1:A:638:TYR:CB	2:B:2240:VAL:C[1_565]	2.05	0.15
1:A:659:LYS:C	2:B:2272:THR:CA[1_565]	2.05	0.15
1:A:677:THR:OG1	2:B:2301:LEU:C[1_565]	2.05	0.15
1:A:679:PHE:N	2:B:2263:SER:CA[1_565]	2.05	0.15
1:A:679:PHE:CD1	2:B:2307:ARG:CB[1_565]	2.05	0.15
1:A:680:MET:CB	2:B:2261:LEU:C[1_565]	2.05	0.15
1:A:686:GLY:O	2:B:2259:GLU:CG[1_565]	2.05	0.15
1:A:691:GLY:N	2:B:2276:GLN:OE1[1_565]	2.05	0.15
1:A:708:VAL:CG1	2:B:2259:GLU:N[1_565]	2.05	0.15
1:A:709:SER:CA	2:B:2313:TRP:N[1_565]	2.05	0.15
1:A:712:ASP:CG	2:B:2255:MET:CE[1_565]	2.05	0.15
2:B:1820:GLN:O	2:B:2227:LYS:NZ[1_565]	2.05	0.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:TRP:CZ3	1:A:471:ARG:CA[1_545]	2.06	0.14
1:A:391:GLU:C	2:B:2017:TYR:CG[1_565]	2.06	0.14
1:A:402:PRO:C	2:B:2036:GLN:NE2[1_565]	2.06	0.14
1:A:409:SER:CB	2:B:2038:THR:N[1_565]	2.06	0.14
1:A:410:GLN:O	2:B:2071:ILE:N[1_565]	2.06	0.14
1:A:416:PRO:CD	2:B:2162:LEU:CA[1_565]	2.06	0.14
1:A:417:GLN:O	2:B:2048:PRO:CG[1_565]	2.06	0.14
1:A:419:ILE:CB	2:B:2049:LYS:CB[1_565]	2.06	0.14
1:A:420:GLY:CA	2:B:2034:ASP:N[1_565]	2.06	0.14
1:A:439:ARG:CB	4:D:2:BMA:O6[1_565]	2.06	0.14
1:A:450:GLY:C	2:B:2175:SER:CB[1_565]	2.06	0.14
1:A:452:LEU:O	2:B:2176:MET:C[1_565]	2.06	0.14
1:A:454:TYR:CD2	2:B:2178:LEU:CD2[1_565]	2.06	0.14
1:A:473:TYR:CE2	2:B:2021:CYS:N[1_565]	2.06	0.14
1:A:527:ARG:O	2:B:2236:LYS:C[1_565]	2.06	0.14
1:A:530:THR:N	2:B:2302:LEU:CA[1_565]	2.06	0.14
1:A:545:SER:CA	2:B:2169:CYS:N[1_565]	2.06	0.14
1:A:545:SER:C	2:B:2169:CYS:O[1_565]	2.06	0.14
1:A:550:PRO:O	2:B:2174:CYS:N[1_565]	2.06	0.14
1:A:554:CYS:C	2:B:2237:THR:N[1_565]	2.06	0.14
1:A:564:ASN:C	2:B:2187:ASP:C[1_565]	2.06	0.14
1:A:568:SER:CB	2:B:2190:ILE:CG1[1_565]	2.06	0.14
1:A:571:ARG:CA	2:B:2323:VAL:C[1_565]	2.06	0.14
1:A:579:PHE:CE1	2:B:2078:PRO:O[1_565]	2.06	0.14
1:A:583:ARG:CD	2:B:2142:PRO:O[1_565]	2.06	0.14
1:A:583:ARG:O	2:B:2082:HIS:C[1_565]	2.06	0.14
1:A:587:LEU:CB	2:B:2083:GLY:C[1_565]	2.06	0.14
1:A:587:LEU:CA	2:B:2083:GLY:CA[1_565]	2.06	0.14
1:A:590:ASN:C	2:B:2085:LYS:O[1_565]	2.06	0.14
1:A:591:ILE:CD1	2:B:2086:THR:N[1_565]	2.06	0.14
1:A:592:GLN:CA	2:B:2135:ILE:CG2[1_565]	2.06	0.14
1:A:602:GLN:N	2:B:2128:GLY:CA[1_565]	2.06	0.14
1:A:604:GLU:CG	2:B:2125:VAL:CB[1_565]	2.06	0.14
1:A:608:PHE:CD2	2:B:2101:PHE:CG[1_565]	2.06	0.14
1:A:610:ALA:C	2:B:2150:ARG:CG[1_565]	2.06	0.14
1:A:616:SER:N	2:B:2147:ARG:CB[1_565]	2.06	0.14
1:A:630:CYS:SG	2:B:2257:VAL:CA[1_565]	2.06	0.14
1:A:631:LEU:CB	2:B:2313:TRP:CE3[1_565]	2.06	0.14
1:A:634:VAL:N	2:B:2308:ILE:CB[1_565]	2.06	0.14
1:A:638:TYR:CE2	2:B:2240:VAL:CG1[1_565]	2.06	0.14
1:A:658:PHE:O	2:B:2273:LEU:CB[1_565]	2.06	0.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:682:MET:CB	2:B:2310:PRO:N[1_565]	2.06	0.14
1:A:683:GLU:CD	2:B:2226:PRO:C[1_565]	2.06	0.14
1:A:686:GLY:N	2:B:2259:GLU:OE2[1_565]	2.06	0.14
1:A:707:LYS:N	2:B:2284:GLN:CA[1_565]	2.06	0.14
1:A:395:TYR:CZ	2:B:2075:LEU:CD2[1_565]	2.07	0.13
1:A:405:ARG:C	2:B:2038:THR:C[1_565]	2.07	0.13
1:A:406:SER:O	2:B:2038:THR:C[1_565]	2.07	0.13
1:A:417:GLN:C	2:B:2048:PRO:CD[1_565]	2.07	0.13
1:A:426:VAL:O	2:B:2169:CYS:CA[1_565]	2.07	0.13
1:A:521:PRO:CD	2:B:2237:THR:CA[1_565]	2.07	0.13
1:A:521:PRO:N	2:B:2237:THR:CB[1_565]	2.07	0.13
1:A:525:ASP:CA	2:B:2266:GLN:CG[1_565]	2.07	0.13
1:A:526:PRO:CB	2:B:2266:GLN:NE2[1_565]	2.07	0.13
1:A:549:GLY:C	2:B:2173:SER:O[1_565]	2.07	0.13
1:A:552:LEU:O	2:B:2327:GLU:OE2[1_565]	2.07	0.13
1:A:566:ILE:N	2:B:2187:ASP:O[1_565]	2.07	0.13
1:A:567:MET:O	2:B:2190:ILE:CG1[1_565]	2.07	0.13
1:A:568:SER:C	2:B:2190:ILE:CD1[1_565]	2.07	0.13
1:A:574:ILE:N	2:B:2296:SER:C[1_565]	2.07	0.13
1:A:580:ASP:CG	2:B:2144:ILE:CG2[1_565]	2.07	0.13
1:A:581:GLU:C	2:B:2081:ILE:CD1[1_565]	2.07	0.13
1:A:595:LEU:C	2:B:2163:ARG:C[1_565]	2.07	0.13
1:A:596:PRO:CB	2:B:2163:ARG:NH1[1_565]	2.07	0.13
1:A:596:PRO:CD	2:B:2061:ALA:CB[1_565]	2.07	0.13
1:A:596:PRO:O	2:B:2163:ARG:CG[1_565]	2.07	0.13
1:A:596:PRO:O	2:B:2087:GLN:OE1[1_565]	2.07	0.13
1:A:608:PHE:CB	2:B:2151:LEU:CG[1_565]	2.07	0.13
1:A:613:ILE:C	2:B:2148:TYR:CA[1_565]	2.07	0.13
1:A:615:HIS:CE1	2:B:2106:SER:OG[1_565]	2.07	0.13
1:A:616:SER:C	2:B:2147:ARG:CZ[1_565]	2.07	0.13
1:A:619:GLY:C	2:B:2076:LEU:O[1_565]	2.07	0.13
1:A:631:LEU:CD1	2:B:2313:TRP:CH2[1_565]	2.07	0.13
1:A:632:HIS:CB	2:B:2317:ILE:CG2[1_565]	2.07	0.13
1:A:636:TYR:CZ	2:B:2306:LEU:CA[1_565]	2.07	0.13
1:A:651:VAL:CA	2:B:2277:ASN:N[1_565]	2.07	0.13
1:A:657:THR:CA	2:B:2280:VAL:CG1[1_565]	2.07	0.13
1:A:692:CYS:O	2:B:2277:ASN:OD1[1_565]	2.07	0.13
1:A:711:CYS:CA	2:B:2256:TYR:CA[1_565]	2.07	0.13
1:A:712:ASP:CA	2:B:2255:MET:CG[1_565]	2.07	0.13
1:A:403:ASP:CA	2:B:2046:TRP:CH2[1_565]	2.08	0.12
1:A:413:ASN:OD1	2:B:2164:MET:CG[1_565]	2.08	0.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:ILE:CD1	2:B:2033:ARG:CG[1_565]	2.08	0.12
1:A:424:LYS:CA	2:B:2024:PRO:C[1_565]	2.08	0.12
1:A:431:TYR:CD1	4:D:4:BMA:O2[1_565]	2.08	0.12
1:A:451:PRO:O	2:B:2174:CYS:C[1_565]	2.08	0.12
1:A:468:GLN:N	2:B:2019:ASN:OD1[1_565]	2.08	0.12
1:A:522:THR:CA	2:B:2331:LEU:CG[1_565]	2.08	0.12
1:A:527:ARG:CD	2:B:2304:ARG:CZ[1_565]	2.08	0.12
1:A:530:THR:CA	2:B:2302:LEU:CG[1_565]	2.08	0.12
1:A:544:ALA:O	2:B:2080:ILE:O[1_565]	2.08	0.12
1:A:550:PRO:CD	2:B:2173:SER:C[1_565]	2.08	0.12
1:A:550:PRO:CA	2:B:2174:CYS:N[1_565]	2.08	0.12
1:A:552:LEU:CA	2:B:2327:GLU:N[1_565]	2.08	0.12
1:A:566:ILE:CG2	2:B:2206:SER:N[1_565]	2.08	0.12
1:A:570:LYS:CA	2:B:2322:GLU:CA[1_565]	2.08	0.12
1:A:572:ASN:C	2:B:2243:VAL:N[1_565]	2.08	0.12
1:A:572:ASN:C	2:B:2242:GLY:O[1_565]	2.08	0.12
1:A:585:TRP:C	2:B:2022:GLN:NE2[1_565]	2.08	0.12
1:A:586:TYR:O	2:B:2167:MET:N[1_565]	2.08	0.12
1:A:588:THR:CG2	2:B:2138:ASN:N[1_565]	2.08	0.12
1:A:591:ILE:CG2	2:B:2085:LYS:O[1_565]	2.08	0.12
1:A:594:PHE:CZ	2:B:2052:ARG:CG[1_565]	2.08	0.12
1:A:604:GLU:O	2:B:2101:PHE:O[1_565]	2.08	0.12
1:A:605:ASP:OD2	2:B:2153:PRO:CA[1_565]	2.08	0.12
1:A:609:GLN:CB	2:B:2102:ILE:O[1_565]	2.08	0.12
1:A:614:MET:CB	2:B:2148:TYR:N[1_565]	2.08	0.12
1:A:622:PHE:CB	2:B:2035:PHE:CZ[1_565]	2.08	0.12
1:A:627:LEU:CA	2:B:2284:GLN:O[1_565]	2.08	0.12
1:A:628:SER:CB	2:B:2285:GLY:O[1_565]	2.08	0.12
1:A:628:SER:C	2:B:2285:GLY:C[1_565]	2.08	0.12
1:A:629:VAL:CG2	2:B:2260:PHE:CE2[1_565]	2.08	0.12
1:A:629:VAL:CG1	2:B:2260:PHE:CZ[1_565]	2.08	0.12
1:A:636:TYR:C	2:B:2306:LEU:CD1[1_565]	2.08	0.12
1:A:637:TRP:CH2	2:B:2243:VAL:CG2[1_565]	2.08	0.12
1:A:637:TRP:C	2:B:2297:LEU:CD1[1_565]	2.08	0.12
1:A:640:LEU:C	2:B:2300:PRO:CD[1_565]	2.08	0.12
1:A:647:ASP:OD2	2:B:2111:LYS:CD[1_565]	2.08	0.12
1:A:653:PHE:CB	2:B:2280:VAL:O[1_565]	2.08	0.12
1:A:666:ASP:C	2:B:2275:PHE:CE1[1_565]	2.08	0.12
1:A:679:PHE:CD2	2:B:2307:ARG:O[1_565]	2.08	0.12
1:A:683:GLU:CB	2:B:2226:PRO:C[1_565]	2.08	0.12
1:A:683:GLU:OE2	2:B:2227:LYS:N[1_565]	2.08	0.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:683:GLU:OE1	2:B:2311:GLN:NE2[1_565]	2.08	0.12
1:A:694:ASN:C	2:B:2110:LYS:NZ[1_565]	2.08	0.12
1:A:706:LEU:CD2	2:B:2283:PHE:CA[1_565]	2.08	0.12
1:A:706:LEU:CD1	2:B:2282:VAL:C[1_565]	2.08	0.12
1:A:408:LYS:CA	2:B:2072:LYS:NZ[1_565]	2.09	0.11
1:A:410:GLN:O	2:B:2071:ILE:C[1_565]	2.09	0.11
1:A:411:TYR:CB	2:B:2072:LYS:CG[1_565]	2.09	0.11
1:A:417:GLN:CG	2:B:2051:ALA:C[1_565]	2.09	0.11
1:A:418:ARG:CZ	2:B:2041:GLY:CA[1_565]	2.09	0.11
1:A:418:ARG:C	2:B:2048:PRO:CA[1_565]	2.09	0.11
1:A:419:ILE:CD1	2:B:2049:LYS:C[1_565]	2.09	0.11
1:A:419:ILE:CA	2:B:2048:PRO:O[1_565]	2.09	0.11
1:A:419:ILE:CD1	2:B:2049:LYS:CA[1_565]	2.09	0.11
1:A:424:LYS:C	2:B:2025:LEU:C[1_565]	2.09	0.11
1:A:424:LYS:N	2:B:2026:GLY:N[1_565]	2.09	0.11
1:A:426:VAL:CG2	2:B:2019:ASN:O[1_565]	2.09	0.11
1:A:450:GLY:O	2:B:2175:SER:CA[1_565]	2.09	0.11
1:A:526:PRO:N	2:B:2266:GLN:CA[1_565]	2.09	0.11
1:A:527:ARG:CZ	2:B:2233:ASP:CG[1_565]	2.09	0.11
1:A:529:LEU:O	2:B:2239:LYS:CA[1_565]	2.09	0.11
1:A:544:ALA:CA	2:B:2081:ILE:N[1_565]	2.09	0.11
1:A:545:SER:CB	2:B:2169:CYS:N[1_565]	2.09	0.11
1:A:564:ASN:CB	2:B:2188:ALA:C[1_565]	2.09	0.11
1:A:567:MET:N	2:B:2206:SER:CB[1_565]	2.09	0.11
1:A:569:ASP:N	2:B:2180:MET:CE[1_565]	2.09	0.11
1:A:570:LYS:NZ	2:B:2180:MET:CG[1_565]	2.09	0.11
1:A:572:ASN:CB	2:B:2243:VAL:CB[1_565]	2.09	0.11
1:A:572:ASN:CB	2:B:2243:VAL:C[1_565]	2.09	0.11
1:A:576:PHE:CA	2:B:2298:ASP:OD2[1_565]	2.09	0.11
1:A:578:VAL:CA	2:B:2107:LEU:CA[1_565]	2.09	0.11
1:A:581:GLU:CD	2:B:2166:LEU:CD2[1_565]	2.09	0.11
1:A:582:ASN:O	2:B:2140:PHE:CZ[1_565]	2.09	0.11
1:A:586:TYR:CZ	2:B:2022:GLN:O[1_565]	2.09	0.11
1:A:588:THR:OG1	2:B:2137:HIS:O[1_565]	2.09	0.11
1:A:591:ILE:CG2	2:B:2086:THR:CA[1_565]	2.09	0.11
1:A:591:ILE:CG2	2:B:2085:LYS:C[1_565]	2.09	0.11
1:A:597:ASN:C	2:B:2088:GLY:O[1_565]	2.09	0.11
1:A:607:GLU:CB	2:B:2069:SER:O[1_565]	2.09	0.11
1:A:610:ALA:O	2:B:2150:ARG:N[1_565]	2.09	0.11
1:A:627:LEU:CD2	2:B:2295:ASN:CG[1_565]	2.09	0.11
1:A:639:ILE:C	2:B:2300:PRO:C[1_565]	2.09	0.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:653:PHE:CE1	2:B:2281:LYS:CD[1_565]	2.09	0.11
1:A:659:LYS:CE	2:B:2270:GLN:C[1_565]	2.09	0.11
1:A:682:MET:CE	2:B:2261:LEU:N[1_565]	2.09	0.11
1:A:706:LEU:CD1	2:B:2283:PHE:CA[1_565]	2.09	0.11
1:A:710:SER:O	2:B:2314:VAL:N[1_565]	2.09	0.11
1:A:117:GLN:CG	1:A:589:GLU:N[1_545]	2.10	0.10
1:A:391:GLU:CA	2:B:2017:TYR:CD1[1_565]	2.10	0.10
1:A:410:GLN:N	2:B:2037:ILE:CG1[1_565]	2.10	0.10
1:A:424:LYS:C	2:B:2025:LEU:CB[1_565]	2.10	0.10
1:A:437:LYS:CA	4:D:4:BMA:O6[1_565]	2.10	0.10
1:A:445:GLU:CB	2:B:2294:VAL:CG2[1_565]	2.10	0.10
1:A:452:LEU:CG	2:B:2324:LEU:CA[1_565]	2.10	0.10
1:A:468:GLN:CG	2:B:1991:SER:OG[1_565]	2.10	0.10
1:A:526:PRO:CB	2:B:2265:SER:O[1_565]	2.10	0.10
1:A:541:ARG:CZ	2:B:2140:PHE:CA[1_565]	2.10	0.10
1:A:547:LEU:N	2:B:2169:CYS:O[1_565]	2.10	0.10
1:A:552:LEU:CD1	2:B:2240:VAL:N[1_565]	2.10	0.10
1:A:552:LEU:O	2:B:2326:CYS:CA[1_565]	2.10	0.10
1:A:553:ILE:CD1	2:B:2328:ALA:N[1_565]	2.10	0.10
1:A:559:VAL:CB	2:B:2186:SER:OG[1_565]	2.10	0.10
1:A:570:LYS:CA	2:B:2322:GLU:C[1_565]	2.10	0.10
1:A:578:VAL:CB	2:B:2106:SER:O[1_565]	2.10	0.10
1:A:579:PHE:CE2	2:B:2078:PRO:C[1_565]	2.10	0.10
1:A:579:PHE:O	2:B:2146:ALA:CB[1_565]	2.10	0.10
1:A:582:ASN:OD1	2:B:2103:ILE:CG2[1_565]	2.10	0.10
1:A:586:TYR:CA	2:B:2167:MET:SD[1_565]	2.10	0.10
1:A:587:LEU:C	2:B:2085:LYS:N[1_565]	2.10	0.10
1:A:588:THR:N	2:B:2085:LYS:N[1_565]	2.10	0.10
1:A:591:ILE:CG2	2:B:2086:THR:N[1_565]	2.10	0.10
1:A:595:LEU:CD1	2:B:2162:LEU:C[1_565]	2.10	0.10
1:A:601:VAL:CG1	2:B:2134:GLY:O[1_565]	2.10	0.10
1:A:603:LEU:O	2:B:2100:GLN:C[1_565]	2.10	0.10
1:A:604:GLU:N	2:B:2126:PHE:CA[1_565]	2.10	0.10
1:A:607:GLU:O	2:B:2152:HIS:CG[1_565]	2.10	0.10
1:A:639:ILE:CG1	2:B:2274:PHE:CE2[1_565]	2.10	0.10
1:A:653:PHE:CZ	2:B:2274:PHE:CD1[1_565]	2.10	0.10
1:A:658:PHE:CE1	2:B:2275:PHE:CA[1_565]	2.10	0.10
1:A:659:LYS:NZ	2:B:2271:TRP:CD1[1_565]	2.10	0.10
1:A:677:THR:C	2:B:2301:LEU:CD1[1_565]	2.10	0.10
1:A:682:MET:SD	2:B:2261:LEU:CA[1_565]	2.10	0.10
1:A:683:GLU:OE2	2:B:2226:PRO:C[1_565]	2.10	0.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:712:ASP:N	2:B:2255:MET:C[1_565]	2.10	0.10
1:A:409:SER:CB	2:B:2037:ILE:CD1[1_565]	2.11	0.09
1:A:410:GLN:CB	2:B:2070:TRP:CD2[1_565]	2.11	0.09
1:A:411:TYR:CD1	2:B:2072:LYS:NZ[1_565]	2.11	0.09
1:A:416:PRO:CD	2:B:2161:THR:C[1_565]	2.11	0.09
1:A:419:ILE:CG2	2:B:2049:LYS:N[1_565]	2.11	0.09
1:A:424:LYS:O	2:B:2024:PRO:C[1_565]	2.11	0.09
1:A:445:GLU:CG	2:B:2294:VAL:CB[1_565]	2.11	0.09
1:A:452:LEU:CB	2:B:2176:MET:O[1_565]	2.11	0.09
1:A:526:PRO:N	2:B:2266:GLN:CB[1_565]	2.11	0.09
1:A:529:LEU:CA	2:B:2238:MET:O[1_565]	2.11	0.09
1:A:534:SER:CA	2:B:2171:LEU:O[1_565]	2.11	0.09
1:A:543:LEU:C	2:B:2080:ILE:N[1_565]	2.11	0.09
1:A:543:LEU:CB	2:B:2080:ILE:CD1[1_565]	2.11	0.09
1:A:547:LEU:C	2:B:2172:ASN:N[1_565]	2.11	0.09
1:A:549:GLY:O	2:B:2173:SER:N[1_565]	2.11	0.09
1:A:552:LEU:N	2:B:2326:CYS:C[1_565]	2.11	0.09
1:A:553:ILE:CG1	2:B:2327:GLU:CA[1_565]	2.11	0.09
1:A:555:TYR:O	2:B:2235:GLN:C[1_565]	2.11	0.09
1:A:565:GLN:N	2:B:2187:ASP:C[1_565]	2.11	0.09
1:A:568:SER:C	2:B:2180:MET:SD[1_565]	2.11	0.09
1:A:571:ARG:C	2:B:2242:GLY:O[1_565]	2.11	0.09
1:A:571:ARG:N	2:B:2323:VAL:CG2[1_565]	2.11	0.09
1:A:577:SER:CB	2:B:2078:PRO:N[1_565]	2.11	0.09
1:A:585:TRP:CB	2:B:2022:GLN:OE1[1_565]	2.11	0.09
1:A:590:ASN:CA	2:B:2165:GLU:O[1_565]	2.11	0.09
1:A:597:ASN:C	2:B:2087:GLN:C[1_565]	2.11	0.09
1:A:597:ASN:O	2:B:2088:GLY:C[1_565]	2.11	0.09
1:A:602:GLN:CG	2:B:2098:ILE:CD1[1_565]	2.11	0.09
1:A:605:ASP:OD2	2:B:2152:HIS:O[1_565]	2.11	0.09
1:A:607:GLU:CB	2:B:2152:HIS:CG[1_565]	2.11	0.09
1:A:613:ILE:O	2:B:2148:TYR:O[1_565]	2.11	0.09
1:A:614:MET:CE	2:B:2073:VAL:CB[1_565]	2.11	0.09
1:A:615:HIS:CB	2:B:2148:TYR:CE1[1_565]	2.11	0.09
1:A:619:GLY:O	2:B:2076:LEU:CG[1_565]	2.11	0.09
1:A:633:GLU:CG	2:B:2319:LEU:CD1[1_565]	2.11	0.09
1:A:653:PHE:CA	2:B:2281:LYS:N[1_565]	2.11	0.09
1:A:667:THR:CA	2:B:2275:PHE:CG[1_565]	2.11	0.09
1:A:677:THR:CB	2:B:2302:LEU:C[1_565]	2.11	0.09
1:A:679:PHE:CZ	2:B:2307:ARG:CD[1_565]	2.11	0.09
1:A:697:PHE:CD1	2:B:2110:LYS:CA[1_565]	2.11	0.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:697:PHE:CE1	2:B:2111:LYS:CA[1_565]	2.11	0.09
1:A:708:VAL:N	2:B:2259:GLU:CG[1_565]	2.11	0.09
1:A:711:CYS:CB	2:B:2256:TYR:CA[1_565]	2.11	0.09
2:B:1826:THR:CG2	2:B:2270:GLN:NE2[1_565]	2.11	0.09
1:A:389:GLU:CA	2:B:2019:ASN:CB[1_565]	2.12	0.08
1:A:409:SER:CA	2:B:2037:ILE:O[1_565]	2.12	0.08
1:A:410:GLN:CD	2:B:2070:TRP:CD2[1_565]	2.12	0.08
1:A:411:TYR:CD2	2:B:2072:LYS:CD[1_565]	2.12	0.08
1:A:415:GLY:O	2:B:2062:TRP:CD2[1_565]	2.12	0.08
1:A:419:ILE:CG2	2:B:2048:PRO:O[1_565]	2.12	0.08
1:A:419:ILE:O	2:B:2035:PHE:C[1_565]	2.12	0.08
1:A:424:LYS:CG	2:B:2024:PRO:O[1_565]	2.12	0.08
1:A:424:LYS:CB	2:B:2024:PRO:CA[1_565]	2.12	0.08
1:A:439:ARG:CG	4:D:2:BMA:O5[1_565]	2.12	0.08
1:A:445:GLU:OE2	2:B:2294:VAL:C[1_565]	2.12	0.08
1:A:445:GLU:C	2:B:2294:VAL:CB[1_565]	2.12	0.08
1:A:470:SER:OG	2:B:1993:ALA:N[1_565]	2.12	0.08
1:A:519:ASP:O	2:B:2329:GLN:O[1_565]	2.12	0.08
1:A:530:THR:C	2:B:2302:LEU:CD1[1_565]	2.12	0.08
1:A:530:THR:CA	2:B:2239:LYS:CG[1_565]	2.12	0.08
1:A:532:TYR:CB	2:B:2239:LYS:NZ[1_565]	2.12	0.08
1:A:543:LEU:O	2:B:2169:CYS:O[1_565]	2.12	0.08
1:A:545:SER:CB	2:B:2080:ILE:O[1_565]	2.12	0.08
1:A:548:ILE:C	2:B:2173:SER:N[1_565]	2.12	0.08
1:A:552:LEU:CB	2:B:2239:LYS:O[1_565]	2.12	0.08
1:A:553:ILE:CD1	2:B:2328:ALA:O[1_565]	2.12	0.08
1:A:557:GLU:CG	2:B:2235:GLN:N[1_565]	2.12	0.08
1:A:567:MET:C	2:B:2190:ILE:CG1[1_565]	2.12	0.08
1:A:574:ILE:CG1	2:B:2297:LEU:CA[1_565]	2.12	0.08
1:A:578:VAL:O	2:B:2145:ILE:C[1_565]	2.12	0.08
1:A:582:ASN:O	2:B:2140:PHE:CD2[1_565]	2.12	0.08
1:A:584:SER:CB	2:B:2081:ILE:C[1_565]	2.12	0.08
1:A:586:TYR:N	2:B:2167:MET:CG[1_565]	2.12	0.08
1:A:587:LEU:CA	2:B:2083:GLY:O[1_565]	2.12	0.08
1:A:592:GLN:OE1	2:B:2135:ILE:C[1_565]	2.12	0.08
1:A:597:ASN:CG	2:B:2088:GLY:C[1_565]	2.12	0.08
1:A:599:ALA:N	2:B:2131:ASP:C[1_565]	2.12	0.08
1:A:600:GLY:N	2:B:2097:TYR:CD2[1_565]	2.12	0.08
1:A:604:GLU:CA	2:B:2126:PHE:CB[1_565]	2.12	0.08
1:A:613:ILE:CA	2:B:2148:TYR:C[1_565]	2.12	0.08
1:A:628:SER:CA	2:B:2285:GLY:CA[1_565]	2.12	0.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:634:VAL:C	2:B:2308:ILE:N[1_565]	2.12	0.08
1:A:638:TYR:CD2	2:B:2240:VAL:CA[1_565]	2.12	0.08
1:A:643:GLY:CA	2:B:2145:ILE:CD1[1_565]	2.12	0.08
1:A:653:PHE:O	2:B:2280:VAL:N[1_565]	2.12	0.08
1:A:662:MET:CB	2:B:2270:GLN:C[1_565]	2.12	0.08
1:A:676:GLU:C	2:B:2301:LEU:CA[1_565]	2.12	0.08
1:A:679:PHE:CG	2:B:2307:ARG:CB[1_565]	2.12	0.08
1:A:688:TRP:CG	2:B:2282:VAL:CB[1_565]	2.12	0.08
1:A:694:ASN:O	2:B:2110:LYS:CG[1_565]	2.12	0.08
1:A:394:ASP:OD2	2:B:2031:HIS:CB[1_565]	2.13	0.07
1:A:396:ALA:N	2:B:2034:ASP:CG[1_565]	2.13	0.07
1:A:404:ASP:C	2:B:2039:ALA:C[1_565]	2.13	0.07
1:A:416:PRO:CB	2:B:2062:TRP:CA[1_565]	2.13	0.07
1:A:417:GLN:CD	2:B:2051:ALA:CA[1_565]	2.13	0.07
1:A:418:ARG:NE	2:B:2047:ALA:CB[1_565]	2.13	0.07
1:A:421:ARG:CG	2:B:2035:PHE:C[1_565]	2.13	0.07
1:A:452:LEU:O	2:B:2176:MET:CA[1_565]	2.13	0.07
1:A:520:GLY:O	2:B:2330:ASP:O[1_565]	2.13	0.07
1:A:546:GLY:CA	2:B:2170:ASP:CA[1_565]	2.13	0.07
1:A:559:VAL:N	2:B:2186:SER:CB[1_565]	2.13	0.07
1:A:567:MET:SD	2:B:2209:ARG:CG[1_565]	2.13	0.07
1:A:571:ARG:CZ	2:B:2322:GLU:CG[1_565]	2.13	0.07
1:A:572:ASN:CA	2:B:2243:VAL:CA[1_565]	2.13	0.07
1:A:579:PHE:CE2	2:B:2078:PRO:CA[1_565]	2.13	0.07
1:A:579:PHE:CA	2:B:2146:ALA:N[1_565]	2.13	0.07
1:A:579:PHE:CZ	2:B:2077:ALA:O[1_565]	2.13	0.07
1:A:580:ASP:OD2	2:B:2105:TYR:CE2[1_565]	2.13	0.07
1:A:581:GLU:OE1	2:B:2166:LEU:CB[1_565]	2.13	0.07
1:A:584:SER:N	2:B:2082:HIS:N[1_565]	2.13	0.07
1:A:586:TYR:CD1	2:B:2168:GLY:N[1_565]	2.13	0.07
1:A:588:THR:CG2	2:B:2084:ILE:O[1_565]	2.13	0.07
1:A:590:ASN:OD1	2:B:2166:LEU:CA[1_565]	2.13	0.07
1:A:593:ARG:O	2:B:2054:HIS:N[1_565]	2.13	0.07
1:A:596:PRO:CA	2:B:2163:ARG:CG[1_565]	2.13	0.07
1:A:605:ASP:CB	2:B:2101:PHE:C[1_565]	2.13	0.07
1:A:606:PRO:C	2:B:2152:HIS:CB[1_565]	2.13	0.07
1:A:613:ILE:CG2	2:B:2105:TYR:O[1_565]	2.13	0.07
1:A:634:VAL:O	2:B:2308:ILE:CB[1_565]	2.13	0.07
1:A:650:SER:O	2:B:2277:ASN:CB[1_565]	2.13	0.07
1:A:656:TYR:O	2:B:2280:VAL:CA[1_565]	2.13	0.07
1:A:680:MET:SD	2:B:2261:LEU:CA[1_565]	2.13	0.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:712:ASP:CG	2:B:2255:MET:CG[1_565]	2.13	0.07
1:A:713:LYS:C	2:B:2203:TRP:CZ3[1_565]	2.13	0.07
1:A:106:TRP:CE2	1:A:472:PRO:CD[1_545]	2.14	0.06
1:A:276:PHE:CZ	2:B:2332:TYR:C[1_565]	2.14	0.06
1:A:392:ASP:CA	2:B:2026:GLY:CA[1_565]	2.14	0.06
1:A:394:ASP:OD1	2:B:2034:ASP:OD2[1_565]	2.14	0.06
1:A:406:SER:O	2:B:2038:THR:CA[1_565]	2.14	0.06
1:A:425:LYS:CG	2:B:2025:LEU:CB[1_565]	2.14	0.06
1:A:453:LEU:N	2:B:2174:CYS:CB[1_565]	2.14	0.06
1:A:467:ASN:CG	2:B:2020:LYS:CE[1_565]	2.14	0.06
1:A:468:GLN:O	2:B:1936:GLN:CD[1_565]	2.14	0.06
1:A:519:ASP:O	2:B:2328:ALA:O[1_565]	2.14	0.06
1:A:520:GLY:C	2:B:2329:GLN:O[1_565]	2.14	0.06
1:A:525:ASP:C	2:B:2266:GLN:CD[1_565]	2.14	0.06
1:A:529:LEU:CD2	2:B:2329:GLN:CD[1_565]	2.14	0.06
1:A:549:GLY:N	2:B:2172:ASN:CA[1_565]	2.14	0.06
1:A:551:LEU:CB	2:B:2326:CYS:SG[1_565]	2.14	0.06
1:A:553:ILE:CA	2:B:2327:GLU:CG[1_565]	2.14	0.06
1:A:564:ASN:CG	2:B:2189:GLN:CG[1_565]	2.14	0.06
1:A:566:ILE:N	2:B:2206:SER:CB[1_565]	2.14	0.06
1:A:569:ASP:C	2:B:2321:MET:CE[1_565]	2.14	0.06
1:A:573:VAL:CG1	2:B:2240:VAL:C[1_565]	2.14	0.06
1:A:573:VAL:C	2:B:2296:SER:CA[1_565]	2.14	0.06
1:A:582:ASN:N	2:B:2140:PHE:CE2[1_565]	2.14	0.06
1:A:584:SER:CB	2:B:2082:HIS:N[1_565]	2.14	0.06
1:A:586:TYR:CB	2:B:2167:MET:CG[1_565]	2.14	0.06
1:A:586:TYR:CB	2:B:2167:MET:SD[1_565]	2.14	0.06
1:A:586:TYR:N	2:B:2167:MET:CA[1_565]	2.14	0.06
1:A:587:LEU:CA	2:B:2084:ILE:CA[1_565]	2.14	0.06
1:A:590:ASN:N	2:B:2085:LYS:CD[1_565]	2.14	0.06
1:A:592:GLN:CD	2:B:2135:ILE:C[1_565]	2.14	0.06
1:A:599:ALA:C	2:B:2131:ASP:C[1_565]	2.14	0.06
1:A:603:LEU:CD1	2:B:2101:PHE:CE2[1_565]	2.14	0.06
1:A:603:LEU:N	2:B:2101:PHE:CD2[1_565]	2.14	0.06
1:A:608:PHE:CG	2:B:2151:LEU:CD1[1_565]	2.14	0.06
1:A:614:MET:CE	2:B:2073:VAL:C[1_565]	2.14	0.06
1:A:616:SER:CA	2:B:2147:ARG:CZ[1_565]	2.14	0.06
1:A:622:PHE:CB	2:B:2035:PHE:CE2[1_565]	2.14	0.06
1:A:634:VAL:CG1	2:B:2229:TRP:C[1_565]	2.14	0.06
1:A:651:VAL:CG2	2:B:2275:PHE:O[1_565]	2.14	0.06
1:A:677:THR:O	2:B:2264:SER:OG[1_565]	2.14	0.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:678:VAL:CA	2:B:2264:SER:CB[1_565]	2.14	0.06
1:A:681:SER:CB	2:B:2309:HIS:CE1[1_565]	2.14	0.06
1:A:706:LEU:CD2	2:B:2282:VAL:CA[1_565]	2.14	0.06
1:A:390:GLU:O	2:B:1936:GLN:N[1_565]	2.15	0.05
1:A:391:GLU:N	2:B:2017:TYR:O[1_565]	2.15	0.05
1:A:395:TYR:CA	2:B:2034:ASP:OD2[1_565]	2.15	0.05
1:A:409:SER:CA	2:B:2037:ILE:N[1_565]	2.15	0.05
1:A:410:GLN:OE1	2:B:2070:TRP:CD2[1_565]	2.15	0.05
1:A:428:PHE:CZ	2:B:2172:ASN:ND2[1_565]	2.15	0.05
1:A:520:GLY:O	2:B:2330:ASP:CA[1_565]	2.15	0.05
1:A:522:THR:CG2	2:B:2332:TYR:CB[1_565]	2.15	0.05
1:A:525:ASP:C	2:B:2266:GLN:OE1[1_565]	2.15	0.05
1:A:526:PRO:CA	2:B:2266:GLN:CD[1_565]	2.15	0.05
1:A:528:CYS:CB	2:B:2238:MET:CB[1_565]	2.15	0.05
1:A:541:ARG:CZ	2:B:2140:PHE:N[1_565]	2.15	0.05
1:A:551:LEU:O	2:B:2239:LYS:CB[1_565]	2.15	0.05
1:A:553:ILE:CG1	2:B:2328:ALA:CA[1_565]	2.15	0.05
1:A:555:TYR:CD2	2:B:2235:GLN:O[1_565]	2.15	0.05
1:A:561:GLN:CB	2:B:2235:GLN:NE2[1_565]	2.15	0.05
1:A:562:ARG:CB	2:B:2233:ASP:OD1[1_565]	2.15	0.05
1:A:562:ARG:C	2:B:2233:ASP:OD1[1_565]	2.15	0.05
1:A:564:ASN:C	2:B:2188:ALA:O[1_565]	2.15	0.05
1:A:566:ILE:CA	2:B:2206:SER:CA[1_565]	2.15	0.05
1:A:571:ARG:CZ	2:B:2322:GLU:OE2[1_565]	2.15	0.05
1:A:571:ARG:C	2:B:2324:LEU:N[1_565]	2.15	0.05
1:A:584:SER:C	2:B:2082:HIS:CB[1_565]	2.15	0.05
1:A:590:ASN:CA	2:B:2165:GLU:N[1_565]	2.15	0.05
1:A:590:ASN:ND2	2:B:2166:LEU:CA[1_565]	2.15	0.05
1:A:599:ALA:CA	2:B:2131:ASP:CA[1_565]	2.15	0.05
1:A:607:GLU:CB	2:B:2152:HIS:CB[1_565]	2.15	0.05
1:A:607:GLU:CG	2:B:2069:SER:O[1_565]	2.15	0.05
1:A:609:GLN:NE2	2:B:2126:PHE:CD2[1_565]	2.15	0.05
1:A:609:GLN:OE1	2:B:2103:ILE:CA[1_565]	2.15	0.05
1:A:628:SER:CB	2:B:2293:VAL:CG2[1_565]	2.15	0.05
1:A:631:LEU:CD2	2:B:2313:TRP:CG[1_565]	2.15	0.05
1:A:632:HIS:CA	2:B:2310:PRO:CB[1_565]	2.15	0.05
1:A:639:ILE:N	2:B:2299:PRO:O[1_565]	2.15	0.05
1:A:639:ILE:CA	2:B:2300:PRO:N[1_565]	2.15	0.05
1:A:658:PHE:O	2:B:2273:LEU:CA[1_565]	2.15	0.05
1:A:667:THR:CA	2:B:2275:PHE:CD2[1_565]	2.15	0.05
1:A:676:GLU:O	2:B:2301:LEU:N[1_565]	2.15	0.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:682:MET:N	2:B:2309:HIS:N[1_565]	2.15	0.05
1:A:694:ASN:CA	2:B:2110:LYS:CD[1_565]	2.15	0.05
1:A:697:PHE:C	2:B:2109:GLY:C[1_565]	2.15	0.05
1:A:708:VAL:O	2:B:2258:LYS:CB[1_565]	2.15	0.05
1:A:709:SER:O	2:B:2313:TRP:CA[1_565]	2.15	0.05
1:A:709:SER:CA	2:B:2313:TRP:C[1_565]	2.15	0.05
1:A:391:GLU:O	2:B:2024:PRO:O[1_565]	2.16	0.04
1:A:394:ASP:CG	2:B:2031:HIS:CA[1_565]	2.16	0.04
1:A:395:TYR:CD2	2:B:2074:ASP:O[1_565]	2.16	0.04
1:A:403:ASP:O	2:B:2041:GLY:O[1_565]	2.16	0.04
1:A:409:SER:O	2:B:2037:ILE:CG1[1_565]	2.16	0.04
1:A:410:GLN:O	2:B:2071:ILE:CB[1_565]	2.16	0.04
1:A:411:TYR:C	2:B:2072:LYS:CA[1_565]	2.16	0.04
1:A:414:ASN:C	2:B:2062:TRP:CZ3[1_565]	2.16	0.04
1:A:425:LYS:N	2:B:2024:PRO:O[1_565]	2.16	0.04
1:A:437:LYS:C	4:D:4:BMA:C4[1_565]	2.16	0.04
1:A:448:ILE:CD1	2:B:2079:MET:CG[1_565]	2.16	0.04
1:A:470:SER:CA	2:B:1992:LYS:CA[1_565]	2.16	0.04
1:A:473:TYR:CD1	2:B:2020:LYS:O[1_565]	2.16	0.04
1:A:548:ILE:CG2	2:B:2170:ASP:OD1[1_565]	2.16	0.04
1:A:549:GLY:N	2:B:2173:SER:CA[1_565]	2.16	0.04
1:A:565:GLN:N	2:B:2188:ALA:N[1_565]	2.16	0.04
1:A:565:GLN:CA	2:B:2187:ASP:O[1_565]	2.16	0.04
1:A:571:ARG:CA	2:B:2323:VAL:N[1_565]	2.16	0.04
1:A:572:ASN:ND2	2:B:2244:THR:N[1_565]	2.16	0.04
1:A:574:ILE:CA	2:B:2297:LEU:O[1_565]	2.16	0.04
1:A:581:GLU:CG	2:B:2166:LEU:CD2[1_565]	2.16	0.04
1:A:590:ASN:O	2:B:2164:MET:O[1_565]	2.16	0.04
1:A:595:LEU:CG	2:B:2162:LEU:CD1[1_565]	2.16	0.04
1:A:595:LEU:CG	2:B:2162:LEU:C[1_565]	2.16	0.04
1:A:595:LEU:CD2	2:B:2162:LEU:CA[1_565]	2.16	0.04
1:A:628:SER:O	2:B:2245:THR:OG1[1_565]	2.16	0.04
1:A:632:HIS:CE1	2:B:2225:ASN:N[1_565]	2.16	0.04
1:A:637:TRP:NE1	2:B:2283:PHE:CD1[1_565]	2.16	0.04
1:A:638:TYR:OH	2:B:2234:PHE:CZ[1_565]	2.16	0.04
1:A:651:VAL:CG2	2:B:2276:GLN:O[1_565]	2.16	0.04
1:A:658:PHE:CD2	2:B:2274:PHE:N[1_565]	2.16	0.04
1:A:660:HIS:O	2:B:2272:THR:CA[1_565]	2.16	0.04
1:A:666:ASP:C	2:B:2275:PHE:CD1[1_565]	2.16	0.04
1:A:670:LEU:CD1	2:B:2299:PRO:CG[1_565]	2.16	0.04
1:A:680:MET:N	2:B:2263:SER:CA[1_565]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:681:SER:N	2:B:2309:HIS:NE2[1_565]	2.16	0.04
1:A:683:GLU:OE2	2:B:2226:PRO:O[1_565]	2.16	0.04
1:A:683:GLU:N	2:B:2311:GLN:N[1_565]	2.16	0.04
1:A:684:ASN:CA	2:B:2311:GLN:CD[1_565]	2.16	0.04
1:A:700:ARG:CB	2:B:2109:GLY:O[1_565]	2.16	0.04
1:A:702:MET:CG	2:B:2108:ASP:C[1_565]	2.16	0.04
1:A:706:LEU:CD1	2:B:2283:PHE:C[1_565]	2.16	0.04
1:A:708:VAL:CB	2:B:2259:GLU:C[1_565]	2.16	0.04
2:B:1820:GLN:C	2:B:2227:LYS:CE[1_565]	2.16	0.04
2:B:1826:THR:OG1	2:B:2270:GLN:CD[1_565]	2.16	0.04
1:A:389:GLU:OE1	2:B:1937:ASP:CB[1_565]	2.17	0.03
1:A:390:GLU:CA	2:B:2023:THR:CG2[1_565]	2.17	0.03
1:A:403:ASP:CB	2:B:2046:TRP:NE1[1_565]	2.17	0.03
1:A:407:TYR:C	2:B:2070:TRP:CH2[1_565]	2.17	0.03
1:A:408:LYS:N	2:B:2038:THR:CG2[1_565]	2.17	0.03
1:A:409:SER:C	2:B:2037:ILE:CD1[1_565]	2.17	0.03
1:A:409:SER:C	2:B:2037:ILE:C[1_565]	2.17	0.03
1:A:422:LYS:CB	2:B:2031:HIS:CD2[1_565]	2.17	0.03
1:A:425:LYS:N	2:B:2024:PRO:C[1_565]	2.17	0.03
1:A:428:PHE:CG	2:B:2172:ASN:ND2[1_565]	2.17	0.03
1:A:452:LEU:C	2:B:2174:CYS:O[1_565]	2.17	0.03
1:A:455:GLY:CA	2:B:2327:GLU:OE2[1_565]	2.17	0.03
1:A:470:SER:OG	2:B:1993:ALA:C[1_565]	2.17	0.03
1:A:473:TYR:CD1	2:B:2021:CYS:N[1_565]	2.17	0.03
1:A:542:ASP:C	2:B:2080:ILE:CB[1_565]	2.17	0.03
1:A:547:LEU:CA	2:B:2170:ASP:CA[1_565]	2.17	0.03
1:A:553:ILE:N	2:B:2327:GLU:C[1_565]	2.17	0.03
1:A:553:ILE:CD1	2:B:2327:GLU:C[1_565]	2.17	0.03
1:A:557:GLU:OE1	2:B:2234:PHE:C[1_565]	2.17	0.03
1:A:564:ASN:OD1	2:B:2186:SER:N[1_565]	2.17	0.03
1:A:567:MET:C	2:B:2190:ILE:CB[1_565]	2.17	0.03
1:A:570:LYS:CB	2:B:2322:GLU:CB[1_565]	2.17	0.03
1:A:576:PHE:CD1	2:B:2298:ASP:OD2[1_565]	2.17	0.03
1:A:583:ARG:NE	2:B:2142:PRO:O[1_565]	2.17	0.03
1:A:583:ARG:CB	2:B:2144:ILE:N[1_565]	2.17	0.03
1:A:586:TYR:CZ	2:B:2023:THR:C[1_565]	2.17	0.03
1:A:590:ASN:OD1	2:B:2165:GLU:OE2[1_565]	2.17	0.03
1:A:590:ASN:N	2:B:2085:LYS:CB[1_565]	2.17	0.03
1:A:594:PHE:CG	2:B:2052:ARG:CA[1_565]	2.17	0.03
1:A:594:PHE:CA	2:B:2052:ARG:CB[1_565]	2.17	0.03
1:A:596:PRO:CA	2:B:2163:ARG:NE[1_565]	2.17	0.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:601:VAL:C	2:B:2129:ASN:CA[1_565]	2.17	0.03
1:A:608:PHE:C	2:B:2151:LEU:C[1_565]	2.17	0.03
1:A:608:PHE:C	2:B:2152:HIS:N[1_565]	2.17	0.03
1:A:609:GLN:CG	2:B:2102:ILE:O[1_565]	2.17	0.03
1:A:613:ILE:N	2:B:2149:ILE:N[1_565]	2.17	0.03
1:A:613:ILE:CD1	2:B:2104:MET:CB[1_565]	2.17	0.03
1:A:616:SER:OG	2:B:2147:ARG:CD[1_565]	2.17	0.03
1:A:617:ILE:C	2:B:2147:ARG:NH1[1_565]	2.17	0.03
1:A:629:VAL:CG1	2:B:2260:PHE:CD2[1_565]	2.17	0.03
1:A:633:GLU:O	2:B:2310:PRO:N[1_565]	2.17	0.03
1:A:634:VAL:O	2:B:2308:ILE:CG1[1_565]	2.17	0.03
1:A:657:THR:N	2:B:2280:VAL:CG1[1_565]	2.17	0.03
1:A:659:LYS:CE	2:B:2271:TRP:N[1_565]	2.17	0.03
1:A:662:MET:CB	2:B:2267:ASP:OD2[1_565]	2.17	0.03
1:A:663:VAL:O	2:B:2272:THR:N[1_565]	2.17	0.03
1:A:679:PHE:O	2:B:2262:ILE:C[1_565]	2.17	0.03
1:A:680:MET:CG	2:B:2261:LEU:CB[1_565]	2.17	0.03
1:A:706:LEU:CG	2:B:2283:PHE:C[1_565]	2.17	0.03
1:A:709:SER:C	2:B:2314:VAL:N[1_565]	2.17	0.03
1:A:139:GLN:NE2	1:A:504:LEU:CD1[1_545]	2.18	0.02
1:A:388:ALA:O	2:B:2019:ASN:CB[1_565]	2.18	0.02
1:A:390:GLU:CA	2:B:2017:TYR:O[1_565]	2.18	0.02
1:A:392:ASP:CG	2:B:2029:SER:CB[1_565]	2.18	0.02
1:A:395:TYR:CD1	2:B:2075:LEU:N[1_565]	2.18	0.02
1:A:409:SER:CA	2:B:2037:ILE:CG1[1_565]	2.18	0.02
1:A:411:TYR:C	2:B:2072:LYS:C[1_565]	2.18	0.02
1:A:412:LEU:O	2:B:2071:ILE:CD1[1_565]	2.18	0.02
1:A:416:PRO:C	2:B:2062:TRP:C[1_565]	2.18	0.02
1:A:418:ARG:CB	2:B:2048:PRO:CG[1_565]	2.18	0.02
1:A:420:GLY:O	2:B:2034:ASP:N[1_565]	2.18	0.02
1:A:431:TYR:CZ	4:D:4:BMA:C2[1_565]	2.18	0.02
1:A:438:THR:N	4:D:4:BMA:O5[1_565]	2.18	0.02
1:A:438:THR:N	4:D:4:BMA:C5[1_565]	2.18	0.02
1:A:438:THR:CA	4:D:4:BMA:O5[1_565]	2.18	0.02
1:A:451:PRO:CA	2:B:2175:SER:C[1_565]	2.18	0.02
1:A:456:GLU:CB	2:B:2236:LYS:NZ[1_565]	2.18	0.02
1:A:525:ASP:OD2	2:B:2331:LEU:C[1_565]	2.18	0.02
1:A:526:PRO:CG	2:B:2303:THR:CA[1_565]	2.18	0.02
1:A:529:LEU:CD1	2:B:2237:THR:CG2[1_565]	2.18	0.02
1:A:545:SER:C	2:B:2169:CYS:C[1_565]	2.18	0.02
1:A:548:ILE:C	2:B:2170:ASP:OD2[1_565]	2.18	0.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:ILE:N	2:B:2171:LEU:C[1_565]	2.18	0.02
1:A:554:CYS:C	2:B:2236:LYS:CA[1_565]	2.18	0.02
1:A:555:TYR:O	2:B:2236:LYS:CB[1_565]	2.18	0.02
1:A:555:TYR:CZ	2:B:2304:ARG:NH2[1_565]	2.18	0.02
1:A:556:LYS:CA	2:B:2235:GLN:O[1_565]	2.18	0.02
1:A:559:VAL:CA	2:B:2186:SER:OG[1_565]	2.18	0.02
1:A:564:ASN:CB	2:B:2189:GLN:CB[1_565]	2.18	0.02
1:A:564:ASN:N	2:B:2189:GLN:C[1_565]	2.18	0.02
1:A:567:MET:O	2:B:2190:ILE:CD1[1_565]	2.18	0.02
1:A:578:VAL:CB	2:B:2107:LEU:CB[1_565]	2.18	0.02
1:A:578:VAL:O	2:B:2146:ALA:C[1_565]	2.18	0.02
1:A:578:VAL:C	2:B:2146:ALA:O[1_565]	2.18	0.02
1:A:579:PHE:CD2	2:B:2146:ALA:O[1_565]	2.18	0.02
1:A:583:ARG:CD	2:B:2115:TYR:OH[1_565]	2.18	0.02
1:A:583:ARG:CZ	2:B:2143:PRO:O[1_565]	2.18	0.02
1:A:584:SER:CA	2:B:2081:ILE:O[1_565]	2.18	0.02
1:A:592:GLN:C	2:B:2053:LEU:CB[1_565]	2.18	0.02
1:A:594:PHE:O	2:B:2051:ALA:O[1_565]	2.18	0.02
1:A:598:PRO:CB	2:B:2087:GLN:CA[1_565]	2.18	0.02
1:A:607:GLU:O	2:B:2151:LEU:C[1_565]	2.18	0.02
1:A:609:GLN:OE1	2:B:2103:ILE:CG1[1_565]	2.18	0.02
1:A:613:ILE:N	2:B:2149:ILE:CB[1_565]	2.18	0.02
1:A:627:LEU:CD2	2:B:2293:VAL:CG1[1_565]	2.18	0.02
1:A:643:GLY:O	2:B:2145:ILE:O[1_565]	2.18	0.02
1:A:652:PHE:CA	2:B:2276:GLN:CG[1_565]	2.18	0.02
1:A:660:HIS:N	2:B:2273:LEU:N[1_565]	2.18	0.02
1:A:663:VAL:C	2:B:2271:TRP:O[1_565]	2.18	0.02
1:A:680:MET:CA	2:B:2262:ILE:CA[1_565]	2.18	0.02
1:A:684:ASN:CG	2:B:2311:GLN:OE1[1_565]	2.18	0.02
1:A:690:LEU:CB	2:B:2281:LYS:NZ[1_565]	2.18	0.02
1:A:690:LEU:CB	2:B:2281:LYS:CD[1_565]	2.18	0.02
1:A:694:ASN:N	2:B:2110:LYS:CE[1_565]	2.18	0.02
1:A:700:ARG:CD	2:B:2112:TRP:CD1[1_565]	2.18	0.02
1:A:390:GLU:CG	2:B:1936:GLN:CG[1_565]	2.19	0.01
1:A:403:ASP:CB	2:B:2046:TRP:CH2[1_565]	2.19	0.01
1:A:404:ASP:C	2:B:2039:ALA:O[1_565]	2.19	0.01
1:A:410:GLN:CB	2:B:2070:TRP:O[1_565]	2.19	0.01
1:A:412:LEU:N	2:B:2072:LYS:CA[1_565]	2.19	0.01
1:A:416:PRO:N	2:B:2062:TRP:C[1_565]	2.19	0.01
1:A:421:ARG:CZ	2:B:2035:PHE:CA[1_565]	2.19	0.01
1:A:424:LYS:O	2:B:2025:LEU:CB[1_565]	2.19	0.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:ARG:C	4:D:2:BMA:O4[1_565]	2.19	0.01
1:A:452:LEU:CA	2:B:2174:CYS:C[1_565]	2.19	0.01
1:A:453:LEU:N	2:B:2174:CYS:O[1_565]	2.19	0.01
1:A:455:GLY:C	2:B:2327:GLU:OE2[1_565]	2.19	0.01
1:A:456:GLU:CB	2:B:2236:LYS:CD[1_565]	2.19	0.01
1:A:519:ASP:O	2:B:2329:GLN:CB[1_565]	2.19	0.01
1:A:521:PRO:N	2:B:2330:ASP:C[1_565]	2.19	0.01
1:A:526:PRO:CB	2:B:2266:GLN:OE1[1_565]	2.19	0.01
1:A:526:PRO:C	2:B:2304:ARG:CB[1_565]	2.19	0.01
1:A:552:LEU:O	2:B:2327:GLU:CA[1_565]	2.19	0.01
1:A:564:ASN:CA	2:B:2188:ALA:CA[1_565]	2.19	0.01
1:A:564:ASN:CG	2:B:2189:GLN:N[1_565]	2.19	0.01
1:A:571:ARG:CB	2:B:2324:LEU:N[1_565]	2.19	0.01
1:A:571:ARG:O	2:B:2324:LEU:N[1_565]	2.19	0.01
1:A:572:ASN:ND2	2:B:2243:VAL:CA[1_565]	2.19	0.01
1:A:574:ILE:CG2	2:B:2297:LEU:C[1_565]	2.19	0.01
1:A:580:ASP:CG	2:B:2105:TYR:CG[1_565]	2.19	0.01
1:A:585:TRP:CB	2:B:2022:GLN:CD[1_565]	2.19	0.01
1:A:585:TRP:C	2:B:2167:MET:CB[1_565]	2.19	0.01
1:A:585:TRP:CG	2:B:2082:HIS:CG[1_565]	2.19	0.01
1:A:588:THR:CB	2:B:2137:HIS:C[1_565]	2.19	0.01
1:A:591:ILE:CG2	2:B:2086:THR:CB[1_565]	2.19	0.01
1:A:592:GLN:NE2	2:B:2135:ILE:CG2[1_565]	2.19	0.01
1:A:595:LEU:CD1	2:B:2162:LEU:CA[1_565]	2.19	0.01
1:A:601:VAL:CG1	2:B:2129:ASN:CA[1_565]	2.19	0.01
1:A:605:ASP:OD1	2:B:2153:PRO:N[1_565]	2.19	0.01
1:A:607:GLU:C	2:B:2151:LEU:C[1_565]	2.19	0.01
1:A:621:VAL:CB	2:B:2074:ASP:CB[1_565]	2.19	0.01
1:A:628:SER:N	2:B:2293:VAL:CG1[1_565]	2.19	0.01
1:A:639:ILE:CA	2:B:2300:PRO:CA[1_565]	2.19	0.01
1:A:652:PHE:CD2	2:B:2279:LYS:N[1_565]	2.19	0.01
1:A:656:TYR:CE1	2:B:2261:LEU:CD1[1_565]	2.19	0.01
1:A:658:PHE:CE1	2:B:2275:PHE:CD1[1_565]	2.19	0.01
1:A:660:HIS:N	2:B:2272:THR:N[1_565]	2.19	0.01
1:A:678:VAL:CA	2:B:2301:LEU:CD1[1_565]	2.19	0.01
1:A:679:PHE:CG	2:B:2307:ARG:N[1_565]	2.19	0.01
1:A:681:SER:C	2:B:2309:HIS:CG[1_565]	2.19	0.01
1:A:682:MET:C	2:B:2311:GLN:N[1_565]	2.19	0.01
1:A:693:HIS:CG	2:B:2278:GLY:CA[1_565]	2.19	0.01

## 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	622/754 (82%)	430 (69%)	131 (21%)	61 (10%)	0	10
2	B	627/684 (92%)	434 (69%)	125 (20%)	68 (11%)	0	8
All	All	1249/1438 (87%)	864 (69%)	256 (20%)	129 (10%)	1	8

All (129) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	118	THR
1	A	133	SER
1	A	181	GLU
1	A	227	ALA
1	A	232	HIS
1	A	243	PRO
1	A	290	PRO
1	A	316	GLN
1	A	326	VAL
1	A	378	HIS
1	A	419	ILE
1	A	444	HIS
1	A	492	PRO
1	A	493	LYS
1	A	525	ASP
1	A	604	GLU
1	A	671	PHE
2	B	1706	LEU
2	B	1791	SER
2	B	1871	VAL
2	B	1889	TRP
2	B	1910	PRO
2	B	1926	MET
2	B	1930	PRO
2	B	1967	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	2003	GLY
2	B	2019	ASN
2	B	2020	LYS
2	B	2044	GLY
2	B	2047	ALA
2	B	2061	ALA
2	B	2110	LYS
2	B	2291	THR
2	B	2294	VAL
1	A	46	TYR
1	A	67	PRO
1	A	80	VAL
1	A	114	TYR
1	A	182	GLY
1	A	184	LEU
1	A	235	ASN
1	A	239	ASN
1	A	303	LEU
1	A	304	GLY
1	A	324	VAL
1	A	501	PHE
1	A	561	GLN
1	A	570	LYS
1	A	587	LEU
1	A	593	ARG
1	A	596	PRO
1	A	601	VAL
1	A	625	LEU
1	A	626	GLN
2	B	1705	ARG
2	B	1710	GLY
2	B	1743	PHE
2	B	1757	GLY
2	B	1843	LEU
2	B	1870	GLN
2	B	1888	SER
2	B	1912	PHE
2	B	1922	ASN
2	B	1936	GLN
2	B	1938	GLN
2	B	1977	ASN
2	B	1991	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	2018	SER
2	B	2034	ASP
2	B	2037	ILE
2	B	2039	ALA
2	B	2043	TYR
2	B	2049	LYS
2	B	2117	GLY
2	B	2119	SER
2	B	2120	THR
2	B	2137	HIS
2	B	2172	ASN
2	B	2208	ALA
2	B	2210	LEU
2	B	2251	LEU
2	B	2252	LEU
1	A	62	ALA
1	A	68	TRP
1	A	148	ALA
1	A	151	PRO
1	A	225	ALA
1	A	397	PRO
1	A	403	ASP
1	A	416	PRO
1	A	498	LEU
1	A	585	TRP
2	B	1748	TYR
2	B	1767	VAL
2	B	1867	HIS
2	B	1928	THR
2	B	2174	CYS
2	B	2276	GLN
1	A	61	ILE
1	A	204	GLU
1	A	264	PRO
1	A	275	THR
1	A	435	THR
1	A	672	PRO
1	A	674	SER
2	B	1780	SER
2	B	1846	ASP
2	B	2011	SER
2	B	2114	THR

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Mol	Chain	Res	Type
2	B	2329	GLN
1	A	412	LEU
1	A	503	ILE
1	A	521	PRO
1	A	653	PHE
2	B	1712	SER
2	B	1789	LEU
2	B	1802	PRO
2	B	1906	GLN
2	B	2038	THR
2	B	2045	GLN
2	B	2326	CYS
1	A	413	ASN
2	B	2135	ILE
2	B	2128	GLY
1	A	494	GLY
2	B	1873	VAL
1	A	171	GLY
2	B	2059	ILE
2	B	1850	GLY

### 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	559/674 (83%)	414 (74%)	145 (26%)	0 3
2	B	560/612 (92%)	446 (80%)	114 (20%)	1 7
All	All	1119/1286 (87%)	860 (77%)	259 (23%)	3 4

All (259) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	THR
1	A	10	VAL
1	A	13	SER

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	16	TYR
1	A	45	VAL
1	A	50	LEU
1	A	51	PHE
1	A	52	VAL
1	A	54	PHE
1	A	56	ASP
1	A	57	HIS
1	A	59	PHE
1	A	65	ARG
1	A	71	LEU
1	A	80	VAL
1	A	82	ASP
1	A	83	THR
1	A	91	MET
1	A	94	HIS
1	A	101	VAL
1	A	105	TYR
1	A	107	LYS
1	A	113	GLU
1	A	118	THR
1	A	120	GLN
1	A	129	PHE
1	A	133	SER
1	A	140	VAL
1	A	141	LEU
1	A	144	ASN
1	A	154	LEU
1	A	155	THR
1	A	161	HIS
1	A	168	LEU
1	A	170	SER
1	A	176	LEU
1	A	179	CYS
1	A	184	LEU
1	A	186	LYS
1	A	191	THR
1	A	196	ILE
1	A	202	PHE
1	A	204	GLU
1	A	206	LYS
1	A	209	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	224	SER
1	A	226	ARG
1	A	233	THR
1	A	234	VAL
1	A	241	SER
1	A	242	LEU
1	A	248	CYS
1	A	251	LYS
1	A	252	SER
1	A	255	TRP
1	A	257	VAL
1	A	260	MET
1	A	270	PHE
1	A	275	THR
1	A	276	PHE
1	A	277	LEU
1	A	282	ARG
1	A	286	LEU
1	A	292	THR
1	A	293	PHE
1	A	295	THR
1	A	302	ASP
1	A	307	LEU
1	A	308	LEU
1	A	312	ILE
1	A	316	GLN
1	A	324	VAL
1	A	328	SER
1	A	380	LYS
1	A	383	VAL
1	A	392	ASP
1	A	393	TRP
1	A	405	ARG
1	A	407	TYR
1	A	412	LEU
1	A	421	ARG
1	A	425	LYS
1	A	427	ARG
1	A	429	MET
1	A	432	THR
1	A	435	THR
1	A	437	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	438	THR
1	A	442	ILE
1	A	444	HIS
1	A	460	THR
1	A	463	ILE
1	A	475	ILE
1	A	483	VAL
1	A	484	ARG
1	A	486	LEU
1	A	490	ARG
1	A	497	HIS
1	A	500	ASP
1	A	509	PHE
1	A	515	VAL
1	A	517	VAL
1	A	519	ASP
1	A	524	SER
1	A	529	LEU
1	A	539	MET
1	A	542	ASP
1	A	543	LEU
1	A	545	SER
1	A	551	LEU
1	A	552	LEU
1	A	558	SER
1	A	567	MET
1	A	571	ARG
1	A	573	VAL
1	A	583	ARG
1	A	584	SER
1	A	585	TRP
1	A	588	THR
1	A	593	ARG
1	A	597	ASN
1	A	601	VAL
1	A	602	GLN
1	A	604	GLU
1	A	617	ILE
1	A	623	ASP
1	A	626	GLN
1	A	627	LEU
1	A	629	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	A	631	LEU
1	A	639	ILE
1	A	640	LEU
1	A	642	ILE
1	A	645	GLN
1	A	650	SER
1	A	652	PHE
1	A	666	ASP
1	A	668	LEU
1	A	674	SER
1	A	683	GLU
1	A	690	LEU
1	A	696	ASP
1	A	698	ARG
1	A	708	VAL
1	A	712	ASP
2	B	1695	THR
2	B	1697	HIS
2	B	1703	VAL
2	B	1704	GLU
2	B	1727	VAL
2	B	1729	GLN
2	B	1733	VAL
2	B	1744	THR
2	B	1747	LEU
2	B	1752	LEU
2	B	1758	LEU
2	B	1759	LEU
2	B	1769	ASP
2	B	1787	SER
2	B	1793	GLU
2	B	1797	ARG
2	B	1798	GLN
2	B	1814	THR
2	B	1815	TYR
2	B	1816	PHE
2	B	1822	HIS
2	B	1823	MET
2	B	1827	LYS
2	B	1832	CYS
2	B	1843	LEU
2	B	1847	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	1860	THR
2	B	1861	ASN
2	B	1869	ARG
2	B	1879	PHE
2	B	1880	LEU
2	B	1887	LYS
2	B	1889	TRP
2	B	1897	ARG
2	B	1898	ASN
2	B	1900	ARG
2	B	1907	MET
2	B	1908	GLU
2	B	1912	PHE
2	B	1916	TYR
2	B	1926	MET
2	B	1929	LEU
2	B	1934	MET
2	B	1938	GLN
2	B	1939	ARG
2	B	1940	ILE
2	B	1945	LEU
2	B	1951	GLU
2	B	1956	ILE
2	B	1957	HIS
2	B	1963	PHE
2	B	1965	VAL
2	B	1966	ARG
2	B	1967	LYS
2	B	1971	TYR
2	B	1975	LEU
2	B	1977	ASN
2	B	1991	SER
2	B	1995	ILE
2	B	1997	ARG
2	B	1998	VAL
2	B	2006	LEU
2	B	2010	MET
2	B	2013	LEU
2	B	2014	PHE
2	B	2015	LEU
2	B	2018	SER
2	B	2019	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	2031	HIS
2	B	2037	ILE
2	B	2046	TRP
2	B	2050	LEU
2	B	2052	ARG
2	B	2058	SER
2	B	2064	THR
2	B	2073	VAL
2	B	2085	LYS
2	B	2086	THR
2	B	2090	ARG
2	B	2091	GLN
2	B	2092	LYS
2	B	2098	ILE
2	B	2106	SER
2	B	2107	LEU
2	B	2111	LYS
2	B	2113	GLN
2	B	2122	THR
2	B	2130	VAL
2	B	2132	SER
2	B	2136	LYS
2	B	2141	ASN
2	B	2149	ILE
2	B	2154	THR
2	B	2156	TYR
2	B	2163	ARG
2	B	2164	MET
2	B	2166	LEU
2	B	2175	SER
2	B	2178	LEU
2	B	2206	SER
2	B	2223	VAL
2	B	2249	LYS
2	B	2262	ILE
2	B	2270	GLN
2	B	2273	LEU
2	B	2277	ASN
2	B	2294	VAL
2	B	2301	LEU
2	B	2312	SER
2	B	2322	GLU

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Mol	Chain	Res	Type
2	B	2327	GLU
2	B	2329	GLN
2	B	2330	ASP
2	B	2332	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (32) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	ASN
1	A	90	ASN
1	A	144	ASN
1	A	169	ASN
1	A	281	HIS
1	A	297	GLN
1	A	413	ASN
1	A	468	GLN
1	A	592	GLN
1	A	609	GLN
1	A	615	HIS
1	A	694	ASN
2	B	1736	GLN
2	B	1770	ASN
2	B	1778	GLN
2	B	1805	ASN
2	B	1820	GLN
2	B	1822	HIS
2	B	1861	ASN
2	B	1864	ASN
2	B	1867	HIS
2	B	1898	ASN
2	B	1922	ASN
2	B	2019	ASN
2	B	2022	GLN
2	B	2036	GLN
2	B	2042	GLN
2	B	2054	HIS
2	B	2129	ASN
2	B	2266	GLN
2	B	2311	GLN
2	B	2329	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

6 monosaccharides are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	NAG	C	1	3,1	14,14,15	0.87	0	17,19,21	1.08	1 (5%)
3	NAG	C	2	3	14,14,15	2.88	3 (21%)	17,19,21	1.74	2 (11%)
4	NAG	D	1	4	14,14,15	0.95	0	17,19,21	1.63	6 (35%)
4	BMA	D	2	4	11,11,12	0.65	0	15,15,17	1.64	2 (13%)
4	MAN	D	3	4	11,11,12	0.70	0	15,15,17	1.99	2 (13%)
4	BMA	D	4	4	11,11,12	0.80	0	15,15,17	1.70	3 (20%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAG	C	1	3,1	-	3/6/23/26	0/1/1/1
3	NAG	C	2	3	-	4/6/23/26	0/1/1/1
4	NAG	D	1	4	-	5/6/23/26	0/1/1/1
4	BMA	D	2	4	-	2/2/19/22	0/1/1/1
4	MAN	D	3	4	-	2/2/19/22	0/1/1/1
4	BMA	D	4	4	-	2/2/19/22	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	2	NAG	O7-C7	8.01	1.41	1.23
3	C	2	NAG	C8-C7	-6.02	1.38	1.50
3	C	2	NAG	C1-C2	2.72	1.56	1.52

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	3	MAN	C1-O5-C5	6.48	120.98	112.19
3	C	2	NAG	C4-C3-C2	5.16	118.58	111.02
4	D	2	BMA	C1-O5-C5	4.50	118.29	112.19
4	D	4	BMA	C1-C2-C3	3.87	114.42	109.67
4	D	4	BMA	C2-C3-C4	3.78	117.43	110.89
4	D	4	BMA	C3-C4-C5	3.13	115.82	110.24
3	C	1	NAG	C4-C3-C2	2.99	115.40	111.02
4	D	1	NAG	C4-C3-C2	2.86	115.20	111.02
4	D	1	NAG	O4-C4-C3	2.74	116.69	110.35
3	C	2	NAG	C2-N2-C7	2.59	126.59	122.90
4	D	3	MAN	C3-C4-C5	2.50	114.70	110.24
4	D	2	BMA	C3-C4-C5	2.49	114.68	110.24
4	D	1	NAG	C2-N2-C7	2.47	126.42	122.90
4	D	1	NAG	O5-C5-C6	2.46	111.06	107.20
4	D	1	NAG	C1-O5-C5	-2.20	109.21	112.19
4	D	1	NAG	O7-C7-C8	-2.10	118.15	122.06

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	1	NAG	C8-C7-N2-C2
3	C	1	NAG	O7-C7-N2-C2
4	D	1	NAG	C3-C2-N2-C7
4	D	1	NAG	C8-C7-N2-C2
4	D	1	NAG	O7-C7-N2-C2
4	D	1	NAG	O5-C5-C6-O6
4	D	3	MAN	O5-C5-C6-O6
3	C	2	NAG	O5-C5-C6-O6
4	D	4	BMA	O5-C5-C6-O6
4	D	3	MAN	C4-C5-C6-O6
4	D	4	BMA	C4-C5-C6-O6
3	C	2	NAG	C8-C7-N2-C2
3	C	2	NAG	O7-C7-N2-C2

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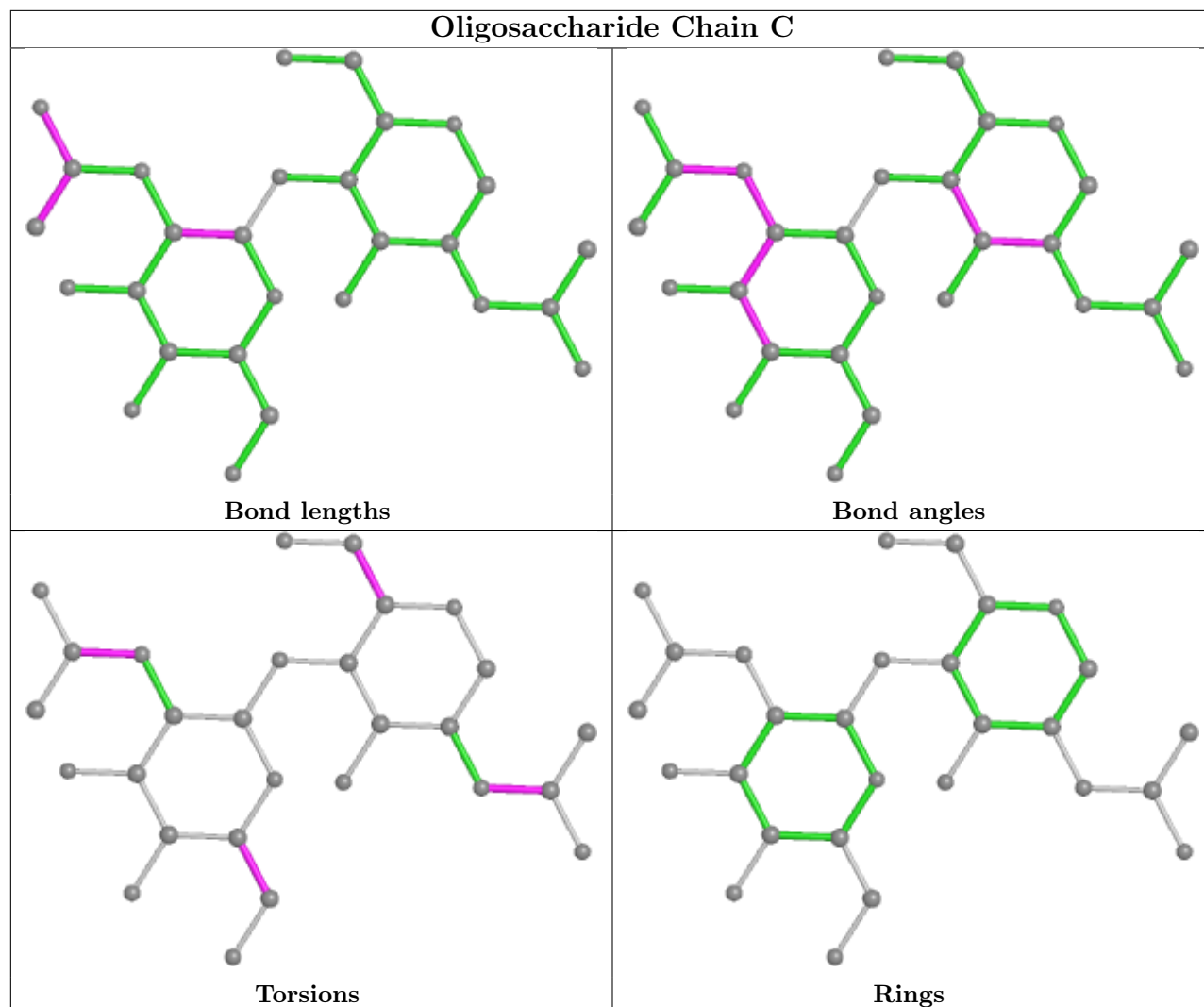
Mol	Chain	Res	Type	Atoms
3	C	2	NAG	C4-C5-C6-O6
4	D	2	BMA	C4-C5-C6-O6
4	D	1	NAG	C4-C5-C6-O6
3	C	1	NAG	O5-C5-C6-O6
4	D	2	BMA	O5-C5-C6-O6

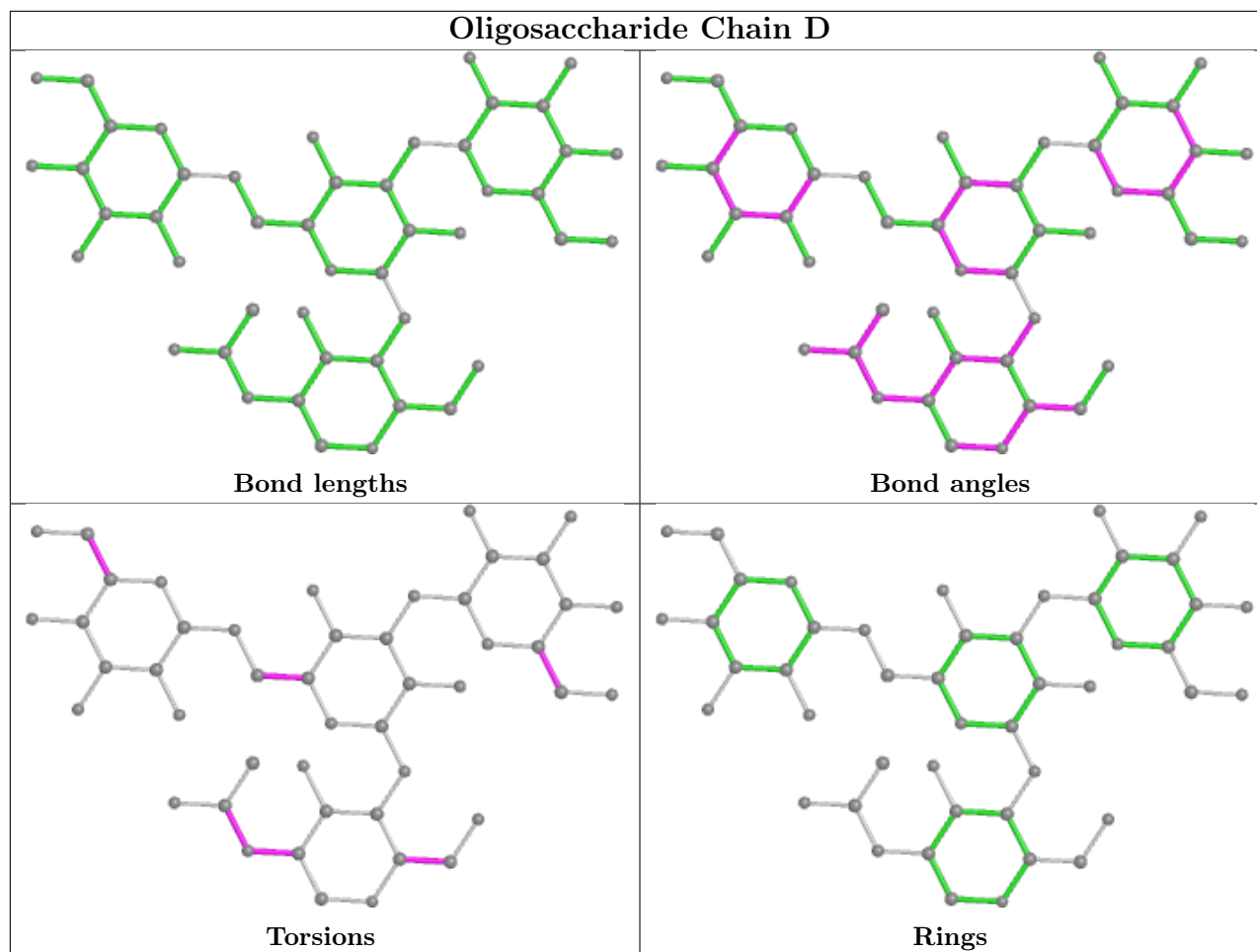
There are no ring outliers.

5 monomers are involved in 57 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	D	2	BMA	0	19
4	D	4	BMA	0	31
3	C	1	NAG	1	0
4	D	1	NAG	2	3
4	D	3	MAN	0	1

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





## 5.6 Ligand geometry [i](#)

Of 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
7	NAG	B	2401	2	14,14,15	0.76	0	17,19,21	2.03	5 (29%)
7	NAG	B	2402	2	14,14,15	0.85	0	17,19,21	1.25	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
7	NAG	B	2401	2	1/1/5/7	3/6/23/26	0/1/1/1
7	NAG	B	2402	2	1/1/5/7	4/6/23/26	0/1/1/1

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	B	2401	NAG	C1-O5-C5	5.03	119.00	112.19
7	B	2401	NAG	C3-C4-C5	4.41	118.11	110.24
7	B	2402	NAG	C1-O5-C5	2.97	116.22	112.19
7	B	2401	NAG	C2-N2-C7	2.51	126.47	122.90
7	B	2402	NAG	C2-N2-C7	2.49	126.45	122.90
7	B	2401	NAG	O5-C5-C4	2.46	116.82	110.83
7	B	2401	NAG	C4-C3-C2	2.19	114.23	111.02

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
7	B	2401	NAG	C1
7	B	2402	NAG	C1

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	B	2401	NAG	C8-C7-N2-C2
7	B	2401	NAG	O7-C7-N2-C2
7	B	2402	NAG	C8-C7-N2-C2
7	B	2402	NAG	O7-C7-N2-C2
7	B	2402	NAG	O5-C5-C6-O6
7	B	2402	NAG	C4-C5-C6-O6
7	B	2401	NAG	O5-C5-C6-O6

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	B	2402	NAG	1	0

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	B	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	2017:TYR	C	2018:SER	N	1.62