Full wwPDB X-ray Structure Validation Report (i)

Mar 10, 2026 – 08:00 AM UTC

PDB ID	:	4YM7 / pdb_00004ym7
Title	:	RNA polymerase I structure with an alternative dimer hinge
Authors	:	Kostrewa, D.; Kuhn, C.-D.; Engel, C.; Cramer, P.
Deposited on	:	2015-03-06
Resolution	:	5.50 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

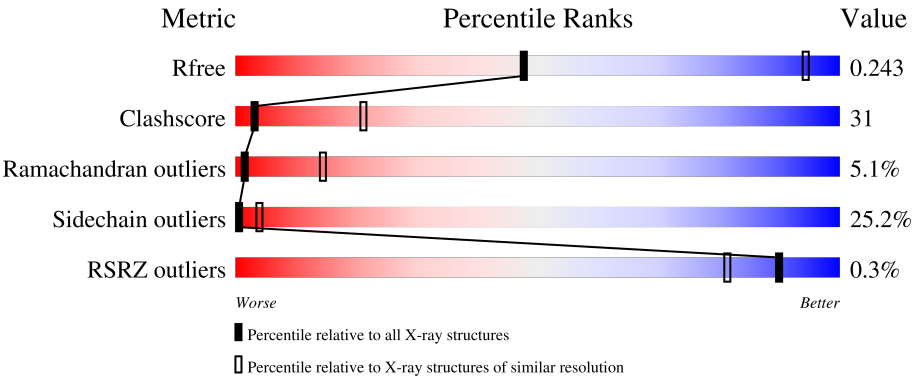
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 5.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1088 (7.00-4.00)
Clashscore	190562	1147 (7.00-4.00)
Ramachandran outliers	187476	1012 (7.02-3.98)
Sidechain outliers	187428	1023 (7.04-3.96)
RSRZ outliers	180081	1081 (7.00-4.00)

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

Mol	Chain	Length	Quality of chain
1	AA	1664	34% 41% 14% • 11%
1	BA	1664	% 33% 41% 13% • 12%
1	CA	1664	32% 42% 14% • 11%
1	DA	1664	32% 42% 14% • 11%
1	EA	1664	31% 43% 14% • 11%

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Mol	Chain	Length	Quality of chain
1	FA	1664	32% 42% 15% • 11%
2	AB	1203	36% 43% 15% • •
2	BB	1203	36% 44% 15% • •
2	CB	1203	35% 43% 17% • •
2	DB	1203	33% 46% 16% • •
2	EB	1203	34% 45% 16% • •
2	FB	1203	34% 44% 17% • •
3	AC	335	36% 40% 13% • 9%
3	BC	335	39% 38% 13% • 9%
3	CC	335	32% 44% 14% • 9%
3	DC	335	% 31% 44% 15% • 9%
3	EC	335	% 34% 41% 14% • 9%
3	FC	335	33% 42% 14% • 9%
4	AD	137	23% 15% 5% 58%
4	BD	137	% 21% 17% • 58%
4	CD	137	22% 16% • 58%
4	DD	137	21% 17% • 58%
4	ED	137	19% 19% • 58%
4	FD	137	20% 18% • 58%
5	AE	215	% 40% 49% 10%
5	BE	215	% 44% 44% 12%
5	CE	215	40% 48% 11% •
5	DE	215	37% 51% 11% •
5	EE	215	41% 47% 11%
5	FE	215	37% 52% 11%

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Mol	Chain	Length	Quality of chain
6	AF	155	26% 31% 6% 37%
6	BF	155	% 31% 26% 6% 37%
6	CF	155	27% 30% 7% 36%
6	DF	155	26% 31% 6% 36%
6	EF	155	28% 30% 6% 36%
6	FF	155	28% 29% 7% 36%
7	AG	326	21% 27% 12% 38%
7	AO	326	7% 6% 84%
7	BG	326	21% 26% 12% 40%
7	BO	326	8% 5% 84%
7	CG	326	% 21% 26% 13% 38%
7	CO	326	6% 5% 5% 85%
7	DG	326	18% 29% 13% 38%
7	DO	326	6% 6% 84%
7	EG	326	% 20% 28% 13% 38%
7	EO	326	7% 5% 84%
7	FG	326	% 20% 27% 13% 38%
7	FO	326	5% 7% 84%
8	AH	146	32% 42% 16% 10%
8	BH	146	34% 41% 14% 10%
8	CH	146	% 30% 39% 19% 10%
8	DH	146	% 32% 40% 17% 8%
8	EH	146	32% 40% 18% 8%
8	FH	146	% 30% 42% 18% 8%
9	AI	125	% 43% 42% 14%

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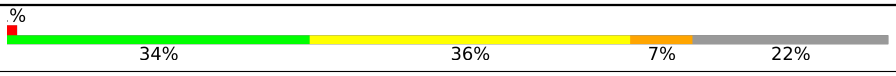
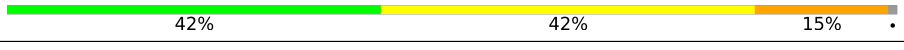
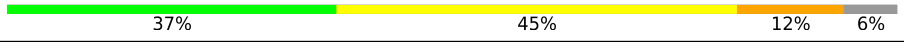
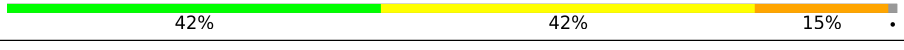
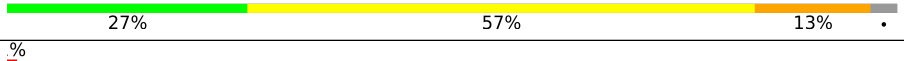
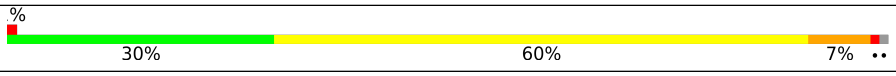
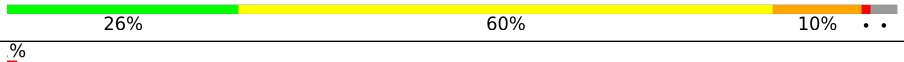
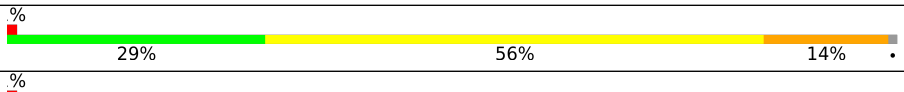
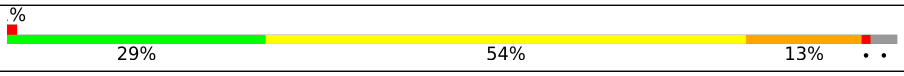
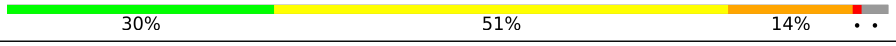
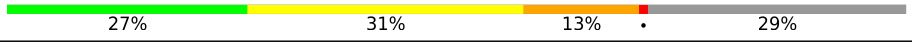
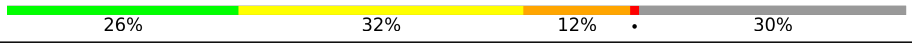
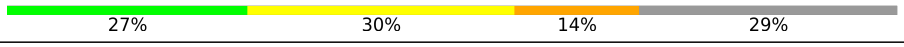
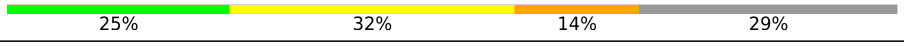
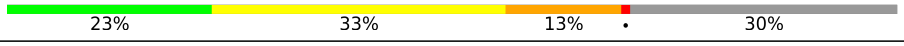
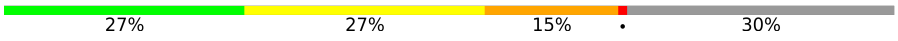
Mol	Chain	Length	Quality of chain
9	BI	125	
9	CI	125	
9	DI	125	
9	EI	125	
9	FI	125	
10	AJ	70	
10	BJ	70	
10	CJ	70	
10	DJ	70	
10	EJ	70	
10	FJ	70	
11	AK	142	
11	BK	142	
11	CK	142	
11	DK	142	
11	EK	142	
11	FK	142	
12	AL	70	
12	BL	70	
12	CL	70	
12	DL	70	
12	EL	70	
12	FL	70	
13	AM	415	
13	BM	415	

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Mol	Chain	Length	Quality of chain
13	CM	415	10% 12% 74%
13	DM	415	10% 12% 74%
13	EM	415	9% 13% 73%
13	FM	415	9% 11% 5% 73%
14	AN	233	22% 27% 9% 39%
14	BN	233	% 24% 27% 8% 39%
14	CN	233	23% 25% 11% 39%
14	DN	233	23% 27% 10% 38%
14	EN	233	22% 28% 8% 38%
14	FN	233	21% 27% 11% 38%

2 Entry composition

There are 15 unique types of molecules in this entry. The entry contains 204233 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called DNA-directed RNA polymerase I subunit RPA190.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1484	Total	C	N	O	S	0	0	0
			11703	7385	2036	2220	62			
1	BA	1462	Total	C	N	O	S	0	0	0
			11540	7291	2003	2184	62			
1	CA	1483	Total	C	N	O	S	0	0	0
			11695	7381	2035	2217	62			
1	DA	1483	Total	C	N	O	S	0	0	0
			11697	7381	2034	2220	62			
1	EA	1484	Total	C	N	O	S	0	0	0
			11706	7390	2036	2218	62			
1	FA	1484	Total	C	N	O	S	0	0	0
			11709	7392	2036	2219	62			

- Molecule 2 is a protein called DNA-directed RNA polymerase I subunit RPA135.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	1154	Total	C	N	O	S	0	0	0
			9187	5822	1606	1708	51			
2	BB	1153	Total	C	N	O	S	0	0	0
			9175	5812	1603	1709	51			
2	CB	1170	Total	C	N	O	S	0	0	0
			9304	5892	1629	1732	51			
2	DB	1165	Total	C	N	O	S	0	0	0
			9269	5871	1622	1725	51			
2	EB	1164	Total	C	N	O	S	0	0	0
			9265	5871	1619	1724	51			
2	FB	1165	Total	C	N	O	S	0	0	0
			9270	5872	1622	1725	51			

- Molecule 3 is a protein called DNA-directed RNA polymerases I and III subunit RPAC1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	BC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	CC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	DC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	EC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	FC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			

- Molecule 4 is a protein called DNA-directed RNA polymerase I subunit RPA14.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	AD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	BD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	CD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	DD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	ED	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	FD	58	Total	C	N	O	0	0	0
			459	289	78	92			

- Molecule 5 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	BE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	CE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	DE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	EE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	FE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			

- Molecule 6 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC2.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
6	AF	98	Total C N O S 807 512 142 150 3	0	0	0
6	BF	98	Total C N O S 807 512 142 150 3	0	0	0
6	CF	99	Total C N O S 816 517 143 153 3	0	0	0
6	DF	99	Total C N O S 816 517 143 153 3	0	0	0
6	EF	99	Total C N O S 816 517 143 153 3	0	0	0
6	FF	99	Total C N O S 816 517 143 153 3	0	0	0

- Molecule 7 is a protein called DNA-directed RNA polymerase I subunit RPA43.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
7	AG	202	Total C N O S 1599 1025 276 293 5	0	0	0
7	AO	52	Total C N O 413 253 64 96	0	0	0
7	BG	195	Total C N O S 1539 992 264 278 5	0	0	0
7	BO	51	Total C N O 404 248 63 93	0	0	0
7	CG	202	Total C N O S 1599 1025 276 293 5	0	0	0
7	CO	50	Total C N O 398 245 62 91	0	0	0
7	DG	202	Total C N O S 1599 1025 276 293 5	0	0	0
7	DO	52	Total C N O 413 253 64 96	0	0	0
7	EG	202	Total C N O S 1599 1025 276 293 5	0	0	0
7	EO	52	Total C N O 413 253 64 96	0	0	0
7	FG	202	Total C N O S 1599 1025 276 293 5	0	0	0
7	FO	52	Total C N O 413 253 64 96	0	0	0

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	132	Total	C	N	O	S	0	0	0
			1063	670	180	209	4			
8	BH	131	Total	C	N	O	S	0	0	0
			1052	664	176	208	4			
8	CH	131	Total	C	N	O	S	0	0	0
			1052	664	176	208	4			
8	DH	134	Total	C	N	O	S	0	0	0
			1075	677	182	212	4			
8	EH	134	Total	C	N	O	S	0	0	0
			1075	677	182	212	4			
8	FH	134	Total	C	N	O	S	0	0	0
			1075	677	182	212	4			

- Molecule 9 is a protein called DNA-directed RNA polymerase I subunit RPA12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			
9	BI	97	Total	C	N	O	S	0	0	0
			716	439	120	148	9			
9	CI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			
9	DI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			
9	EI	117	Total	C	N	O	S	0	0	0
			898	556	152	181	9			
9	FI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			

- Molecule 10 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			
10	BJ	69	Total	C	N	O	S	0	0	0
			569	362	101	100	6			
10	CJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			
10	DJ	69	Total	C	N	O	S	0	0	0
			569	362	101	100	6			
10	EJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			
10	FJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			

- Molecule 11 is a protein called DNA-directed RNA polymerases I and III subunit RPAC2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	101	Total	C	N	O	S	0	0	0
			793	496	130	162	5			
11	BK	100	Total	C	N	O	S	0	0	0
			786	491	129	161	5			
11	CK	101	Total	C	N	O	S	0	0	0
			793	496	130	162	5			
11	DK	101	Total	C	N	O	S	0	0	0
			793	496	130	162	5			
11	EK	100	Total	C	N	O	S	0	0	0
			786	491	129	161	5			
11	FK	100	Total	C	N	O	S	0	0	0
			786	491	129	161	5			

- Molecule 12 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	BL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	CL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	DL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	EL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	FL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			

- Molecule 13 is a protein called DNA-directed RNA polymerase I subunit RPA49.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	AM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	BM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	CM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	DM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	EM	110	Total	C	N	O	0	0	0
			869	551	144	174			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	FM	110	Total 869	C 551	N 144	O 174	0	0	0

- Molecule 14 is a protein called DNA-directed RNA polymerase I subunit RPA34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	142	Total 1127	C 719	N 183	O 221	S 4	0	0	0
14	BN	143	Total 1130	C 719	N 184	O 223	S 4	0	0	0
14	CN	143	Total 1137	C 728	N 184	O 221	S 4	0	0	0
14	DN	145	Total 1146	C 729	N 186	O 227	S 4	0	0	0
14	EN	144	Total 1140	C 726	N 186	O 224	S 4	0	0	0
14	FN	145	Total 1146	C 729	N 187	O 226	S 4	0	0	0

- Molecule 15 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
15	AA	2	Total 2	Zn 2	0	0
15	AB	1	Total 1	Zn 1	0	0
15	AI	2	Total 2	Zn 2	0	0
15	AJ	1	Total 1	Zn 1	0	0
15	AL	1	Total 1	Zn 1	0	0
15	BA	2	Total 2	Zn 2	0	0
15	BB	1	Total 1	Zn 1	0	0
15	BI	2	Total 2	Zn 2	0	0
15	BJ	1	Total 1	Zn 1	0	0
15	BL	1	Total 1	Zn 1	0	0

Continued on next page...

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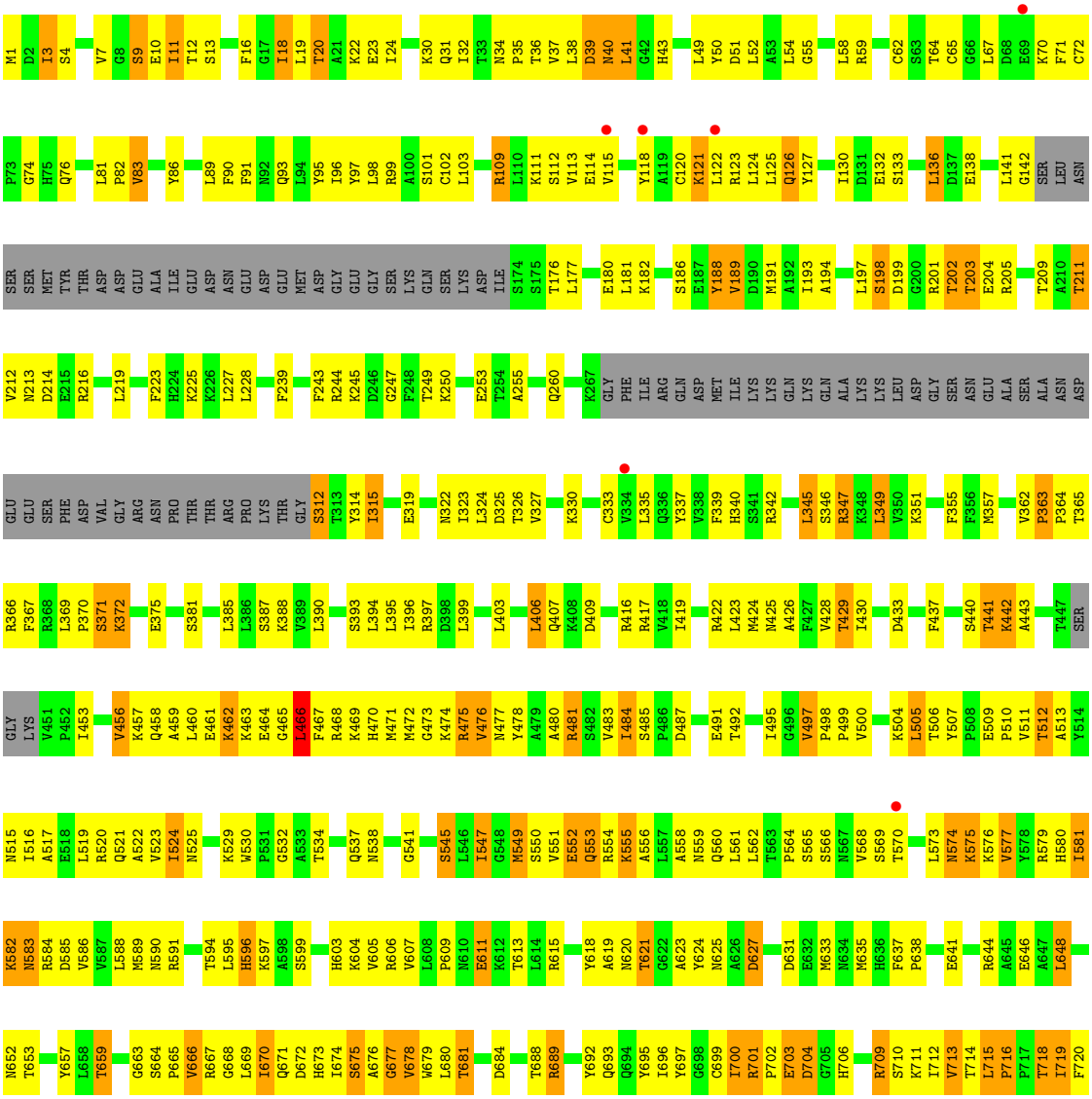
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
15	CA	2	Total Zn 2 2	0	0
15	CB	1	Total Zn 1 1	0	0
15	CI	2	Total Zn 2 2	0	0
15	CJ	1	Total Zn 1 1	0	0
15	CL	1	Total Zn 1 1	0	0
15	DA	2	Total Zn 2 2	0	0
15	DB	1	Total Zn 1 1	0	0
15	DI	2	Total Zn 2 2	0	0
15	DJ	1	Total Zn 1 1	0	0
15	DL	1	Total Zn 1 1	0	0
15	EA	2	Total Zn 2 2	0	0
15	EB	1	Total Zn 1 1	0	0
15	EI	2	Total Zn 2 2	0	0
15	EJ	1	Total Zn 1 1	0	0
15	EL	1	Total Zn 1 1	0	0
15	FA	2	Total Zn 2 2	0	0
15	FB	1	Total Zn 1 1	0	0
15	FI	2	Total Zn 2 2	0	0
15	FJ	1	Total Zn 1 1	0	0
15	FL	1	Total Zn 1 1	0	0

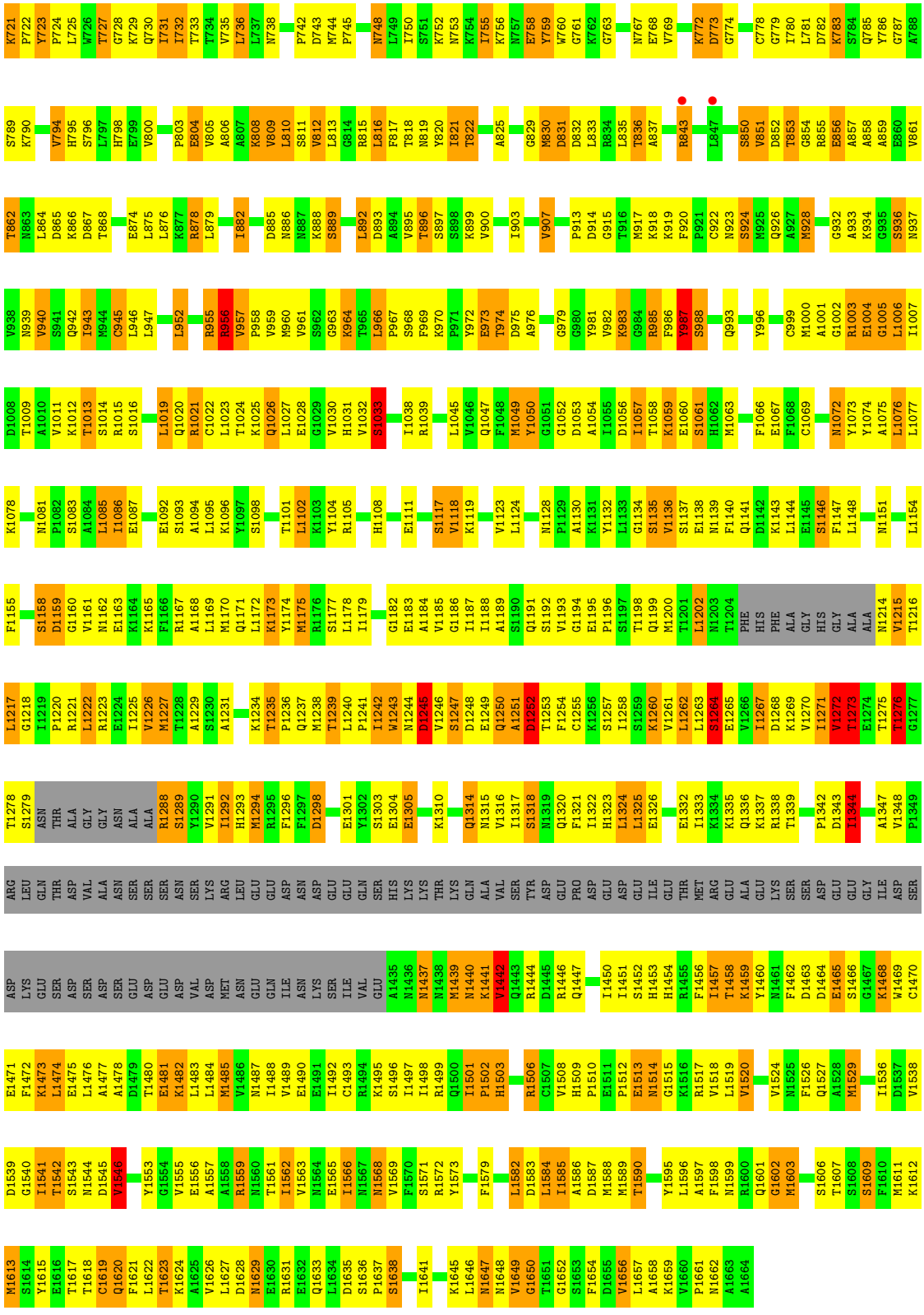
3 Residue-property plots (i)

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

• Molecule 1: DNA-directed RNA polymerase I subunit RPA190

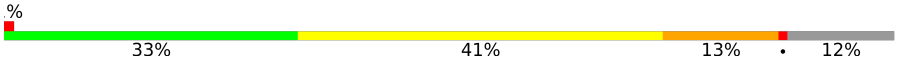
Chain AA:

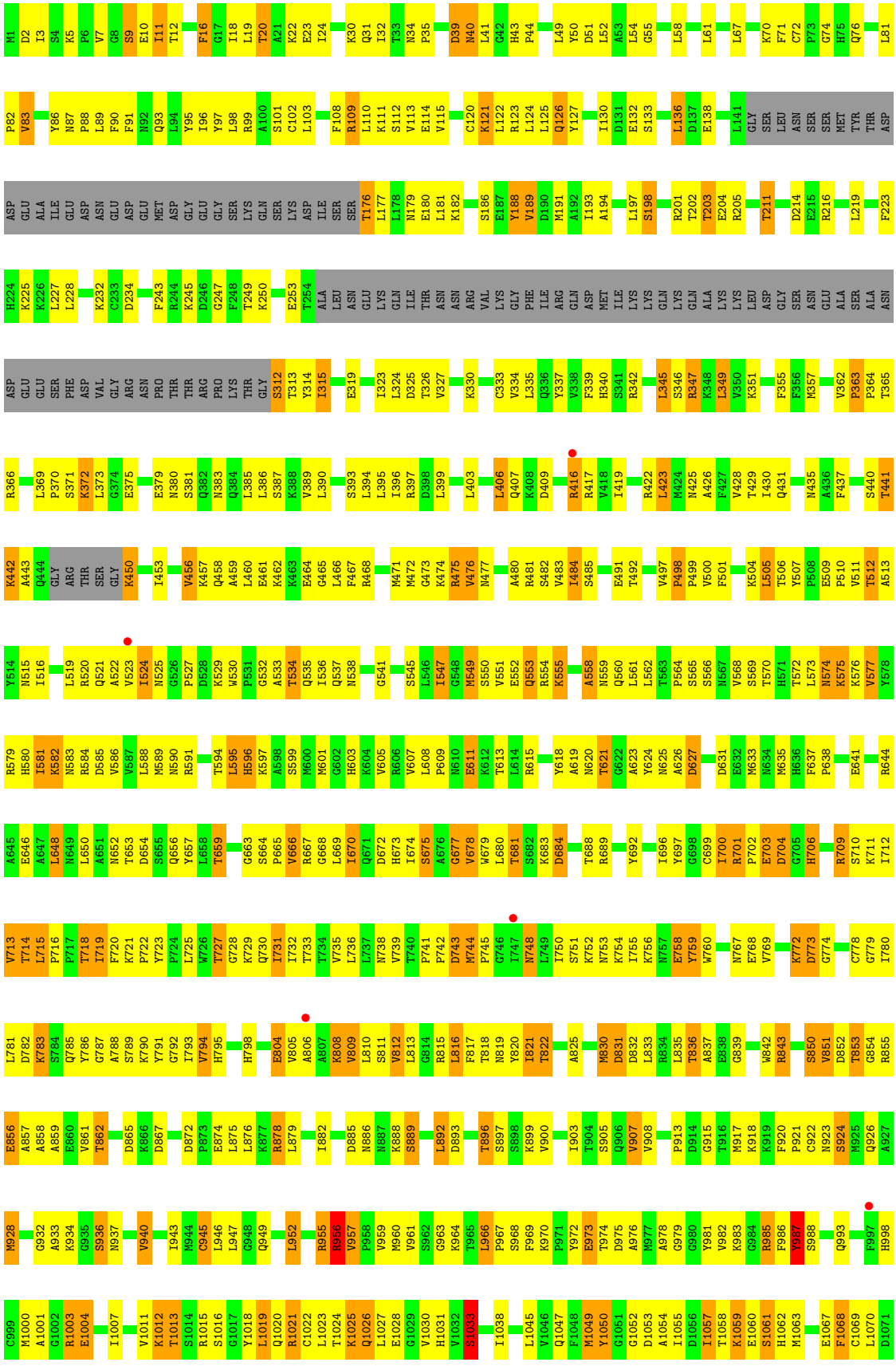


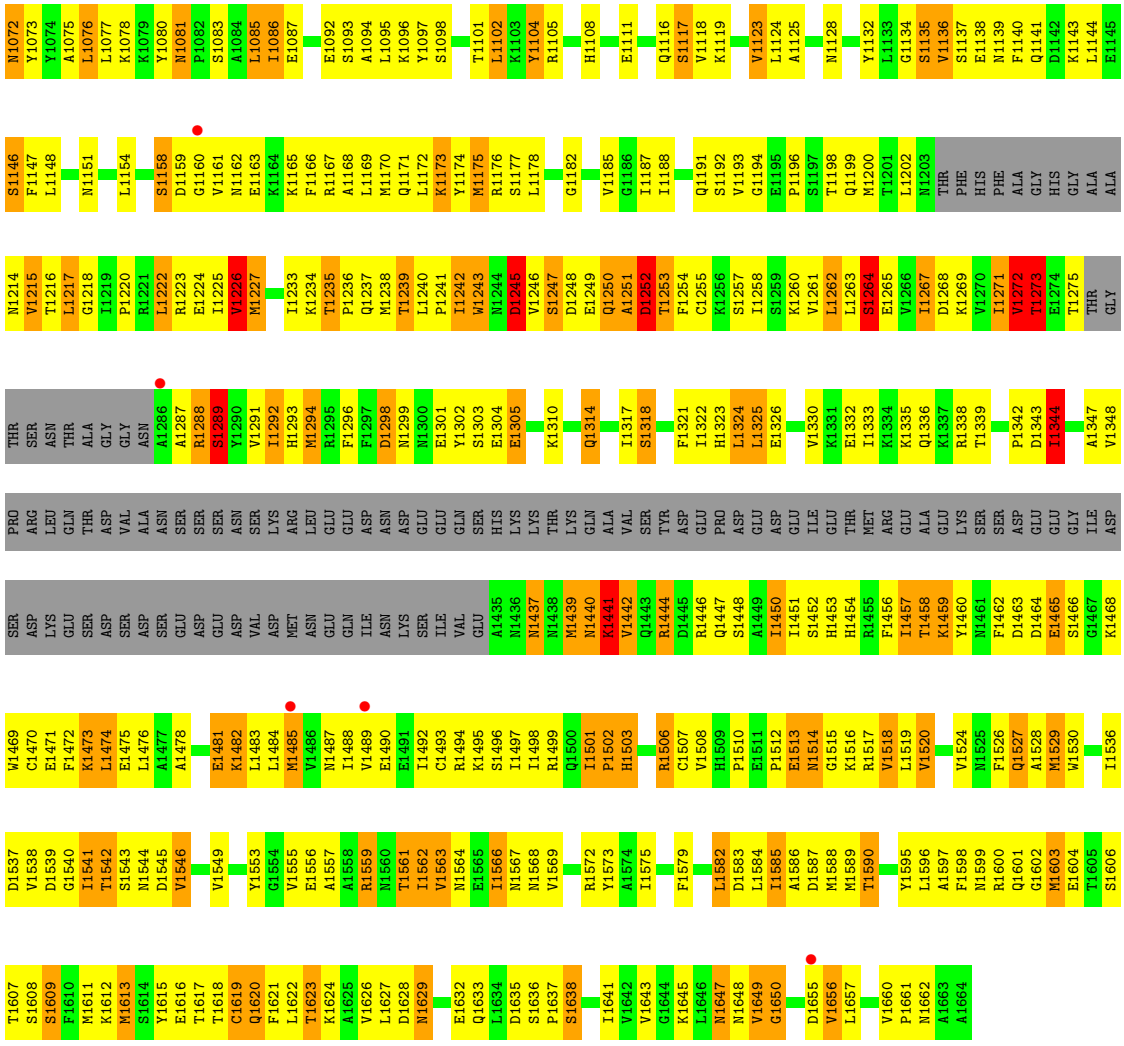


• Molecule 1: DNA-directed RNA polymerase I subunit RPA190

Chain BA:

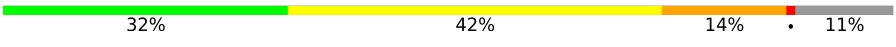


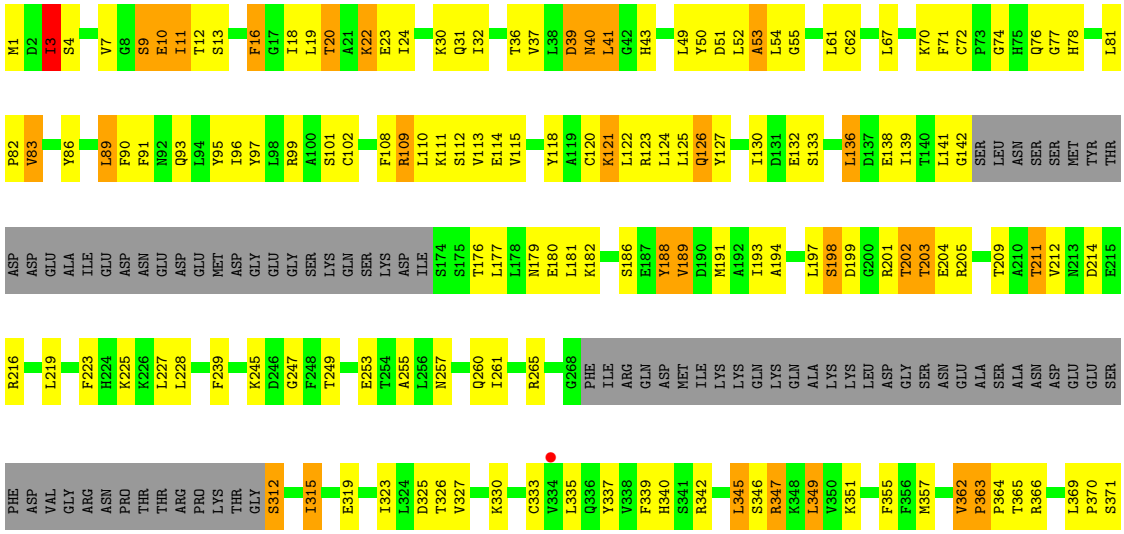


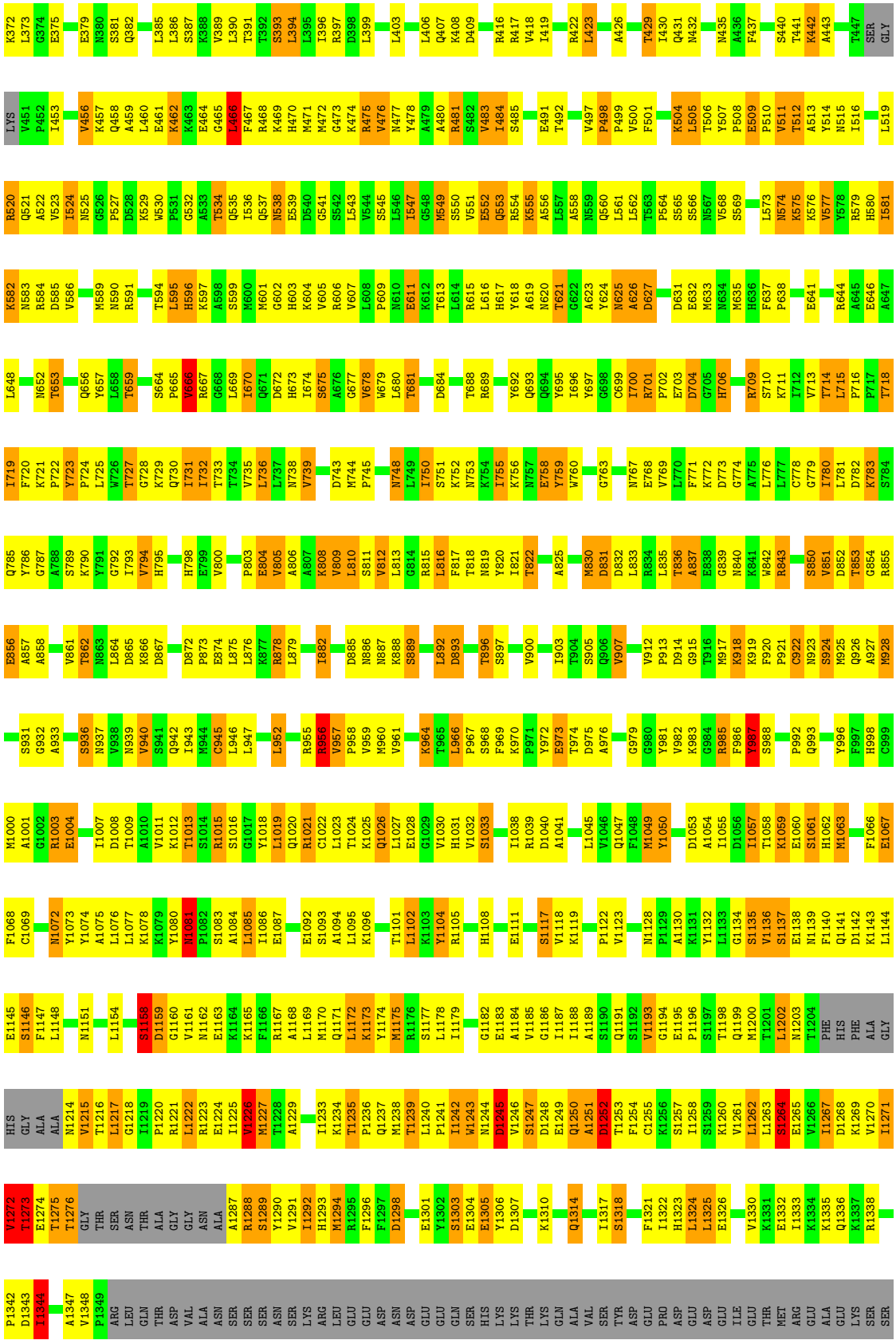


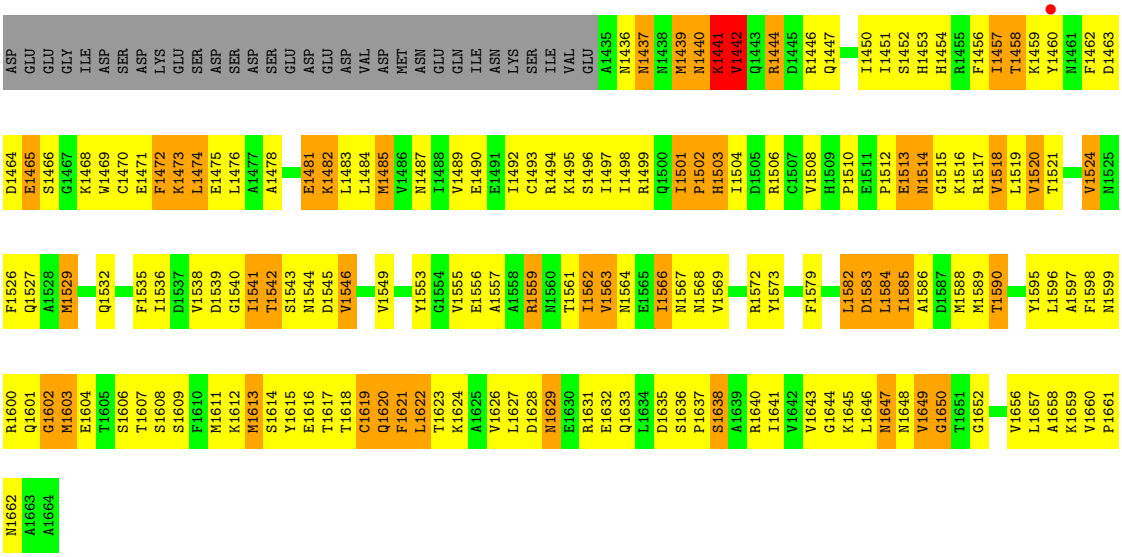
• Molecule 1: DNA-directed RNA polymerase I subunit RPA190

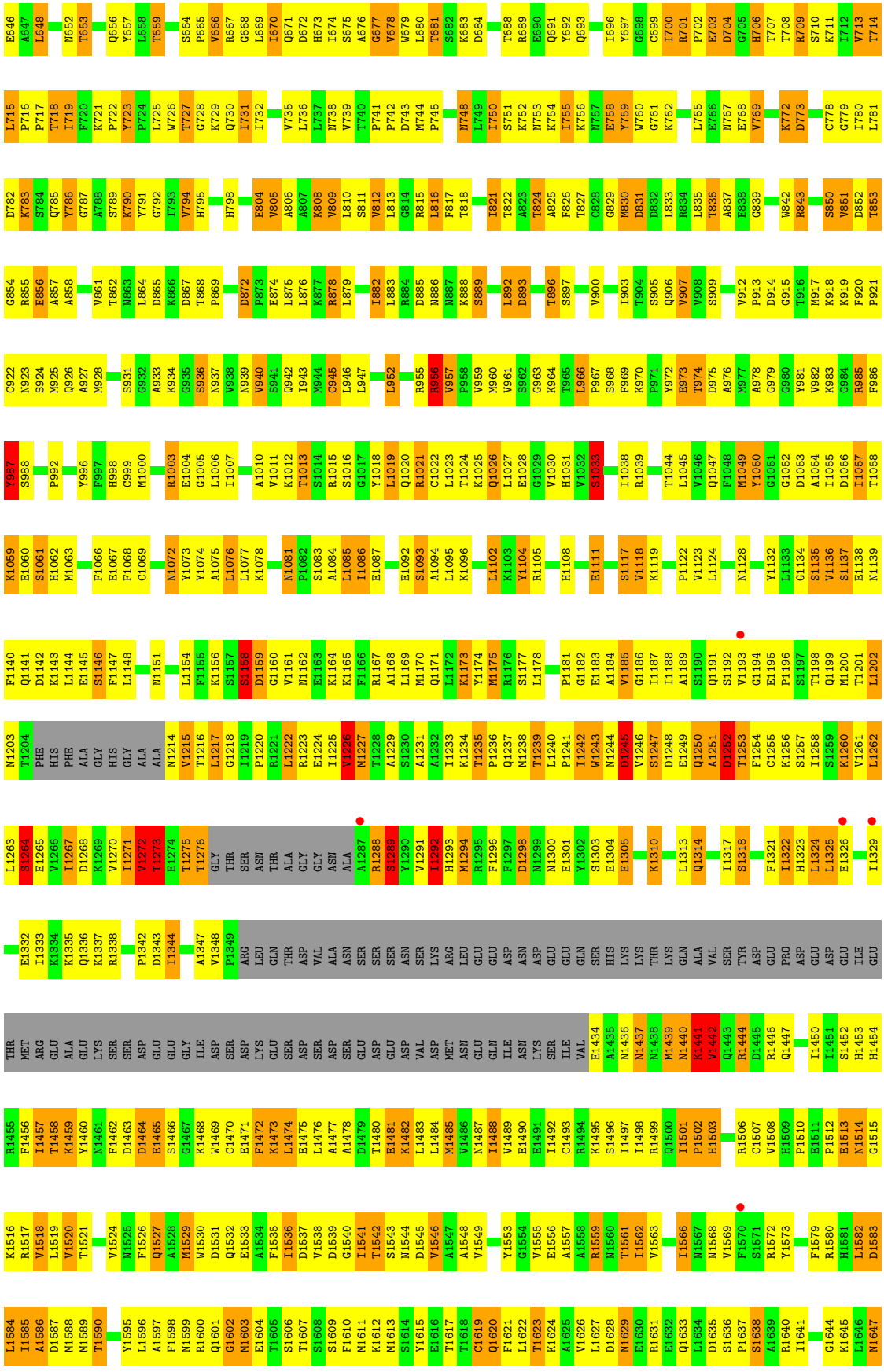
Chain CA:

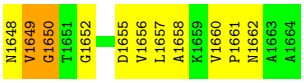






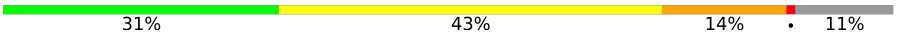


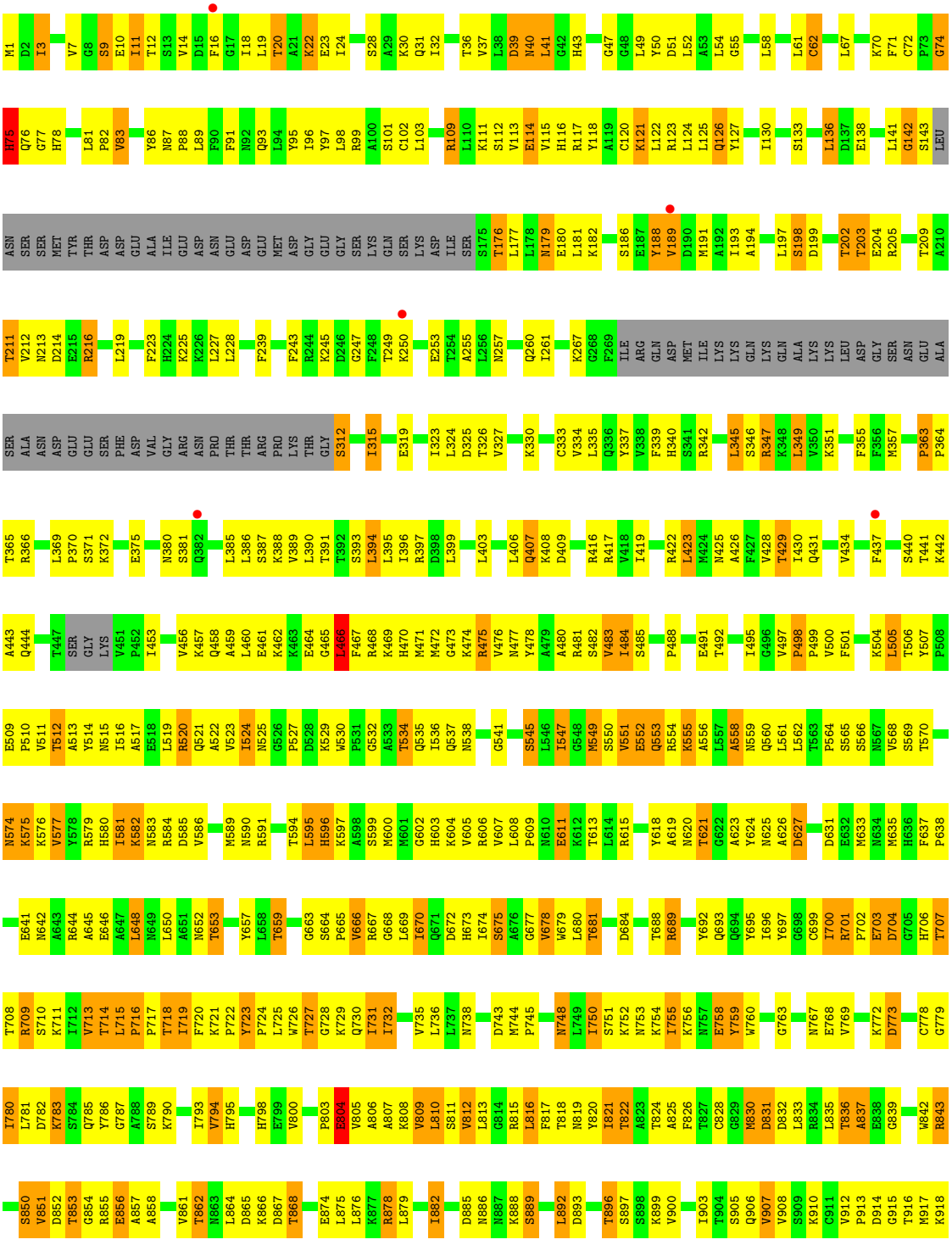


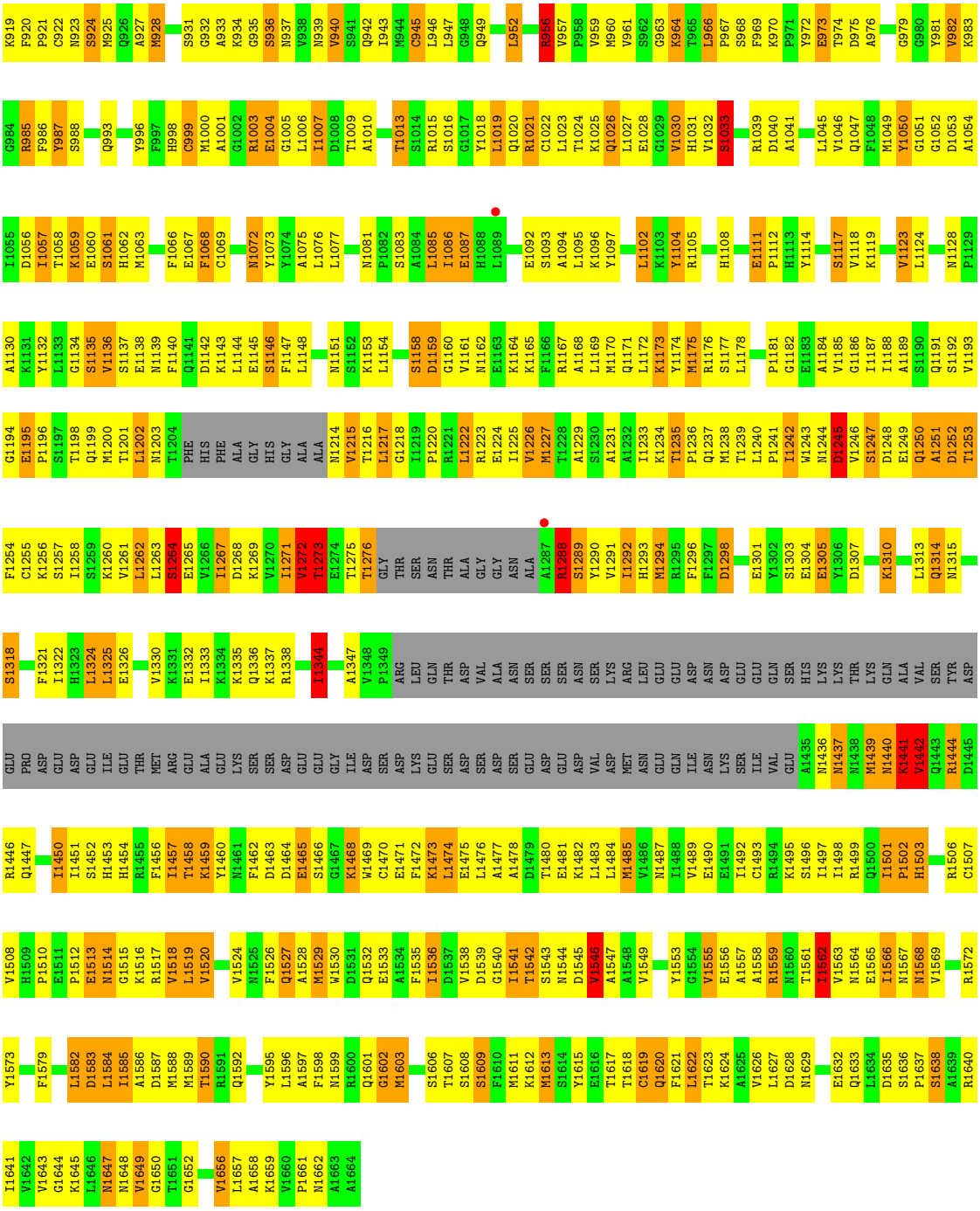


• Molecule 1: DNA-directed RNA polymerase I subunit RPA190

Chain EA:

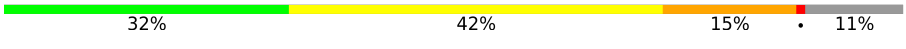


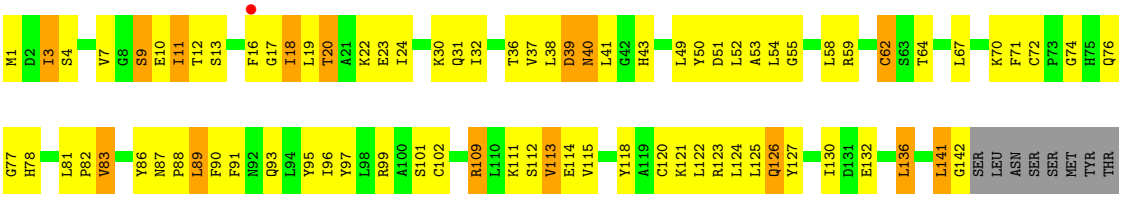


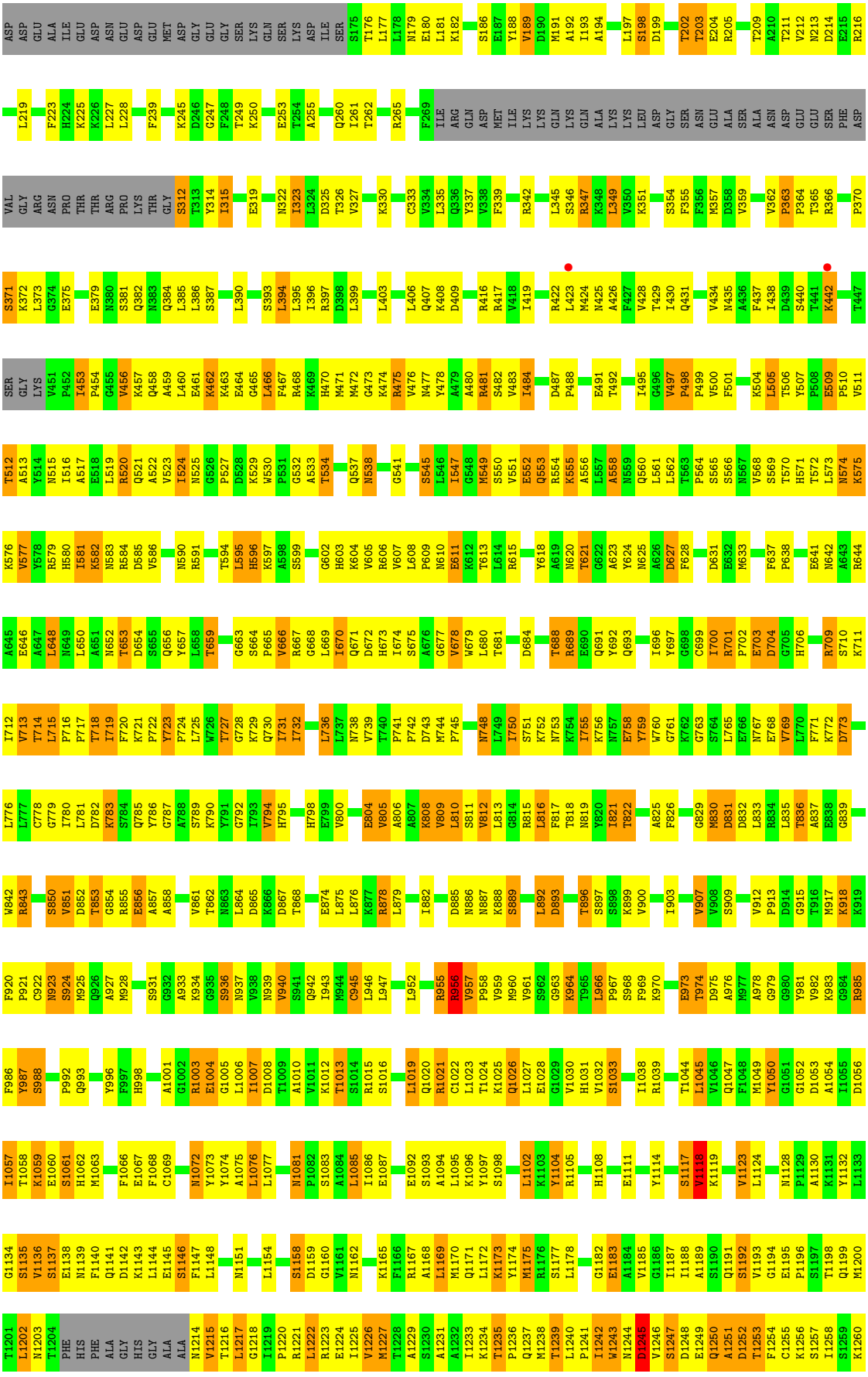


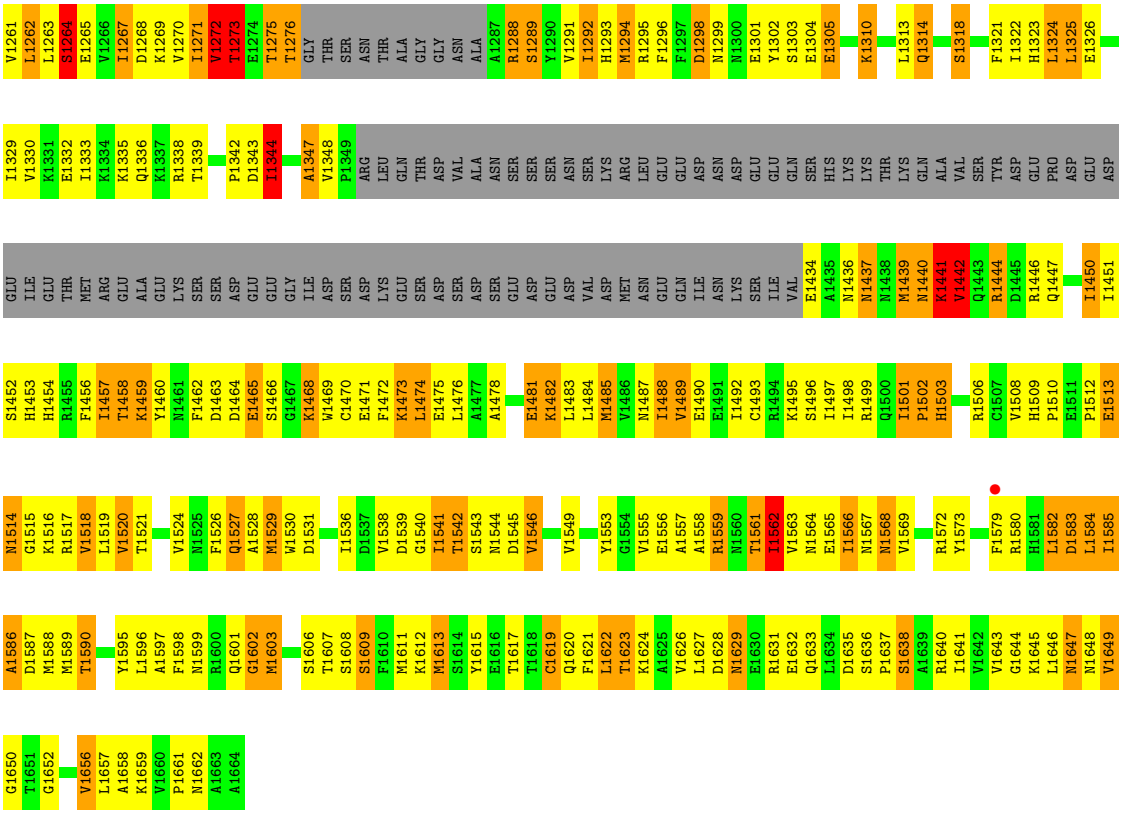
• Molecule 1: DNA-directed RNA polymerase I subunit RPA190

Chain FA:



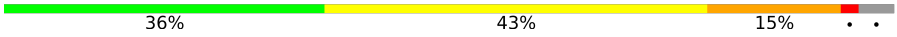


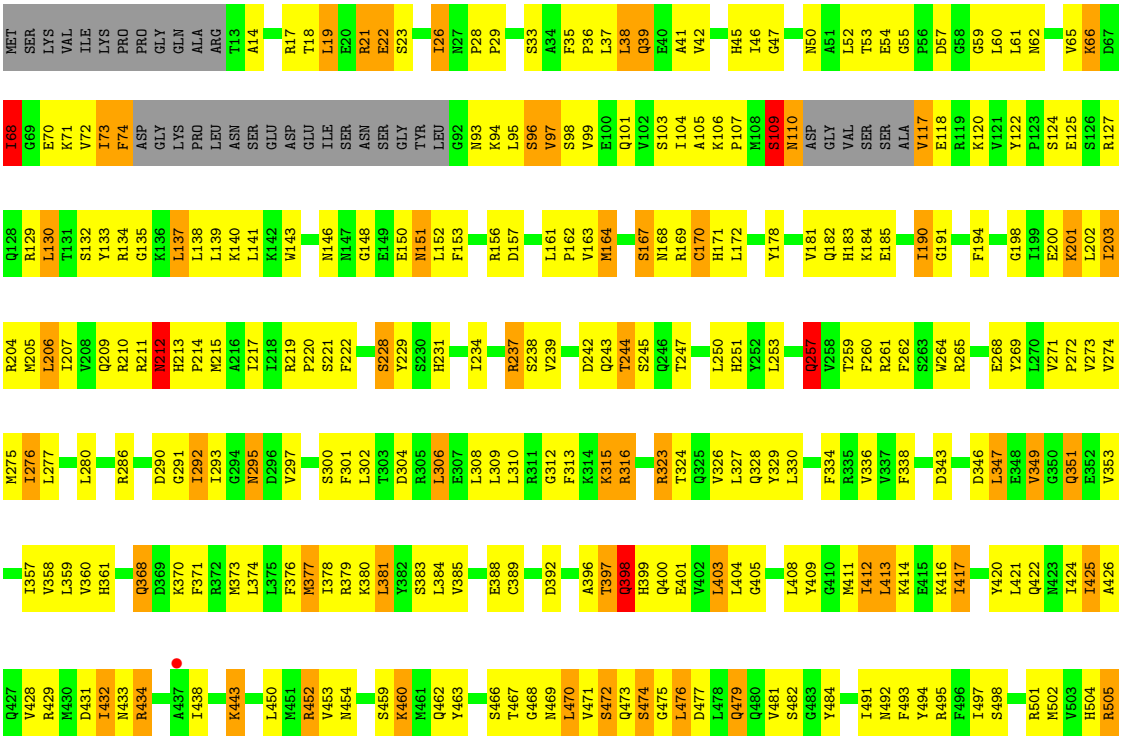


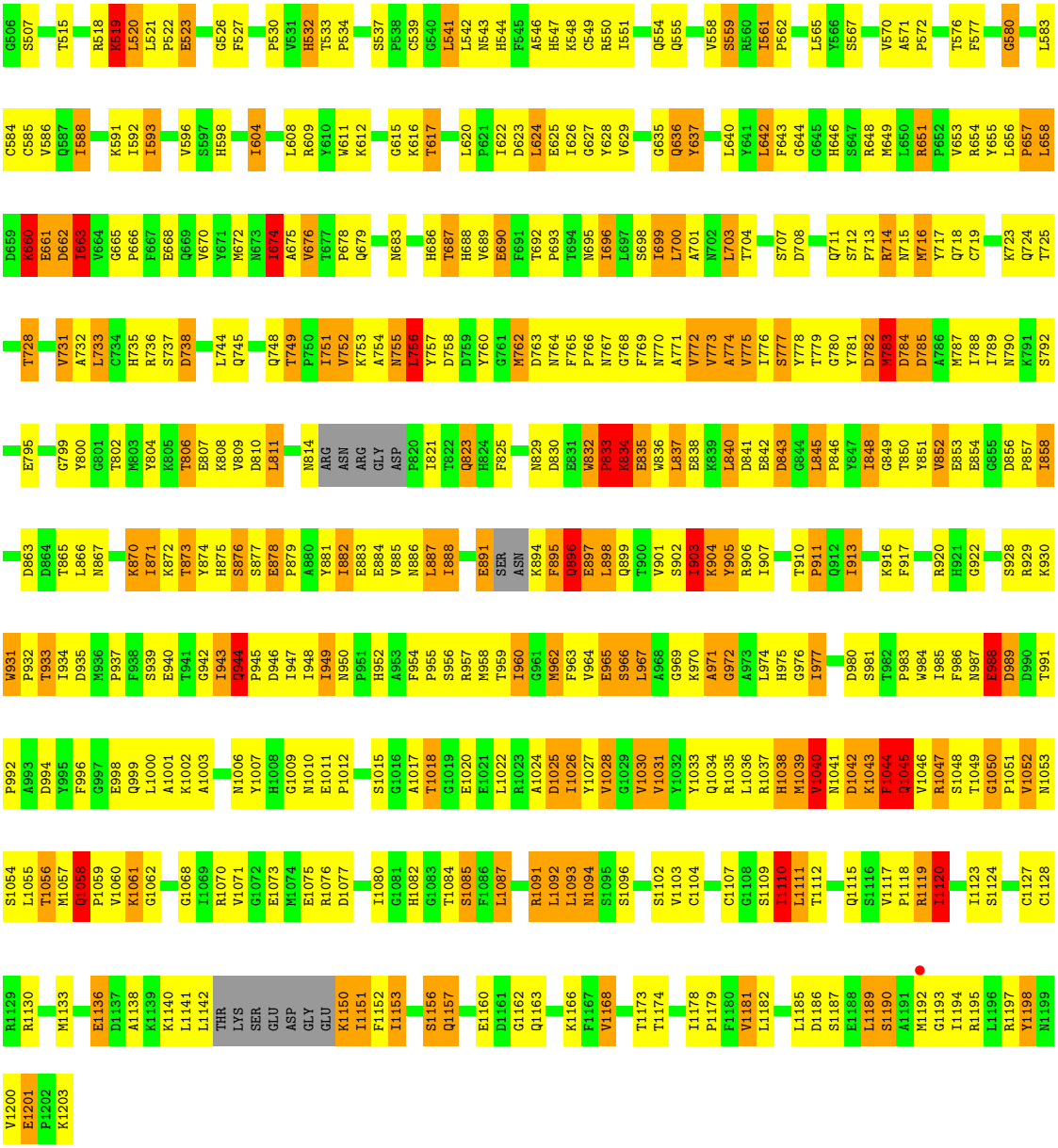


• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

Chain AB:

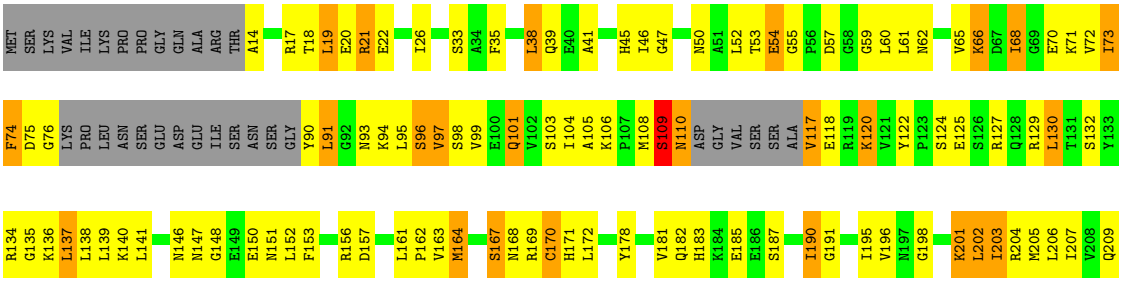


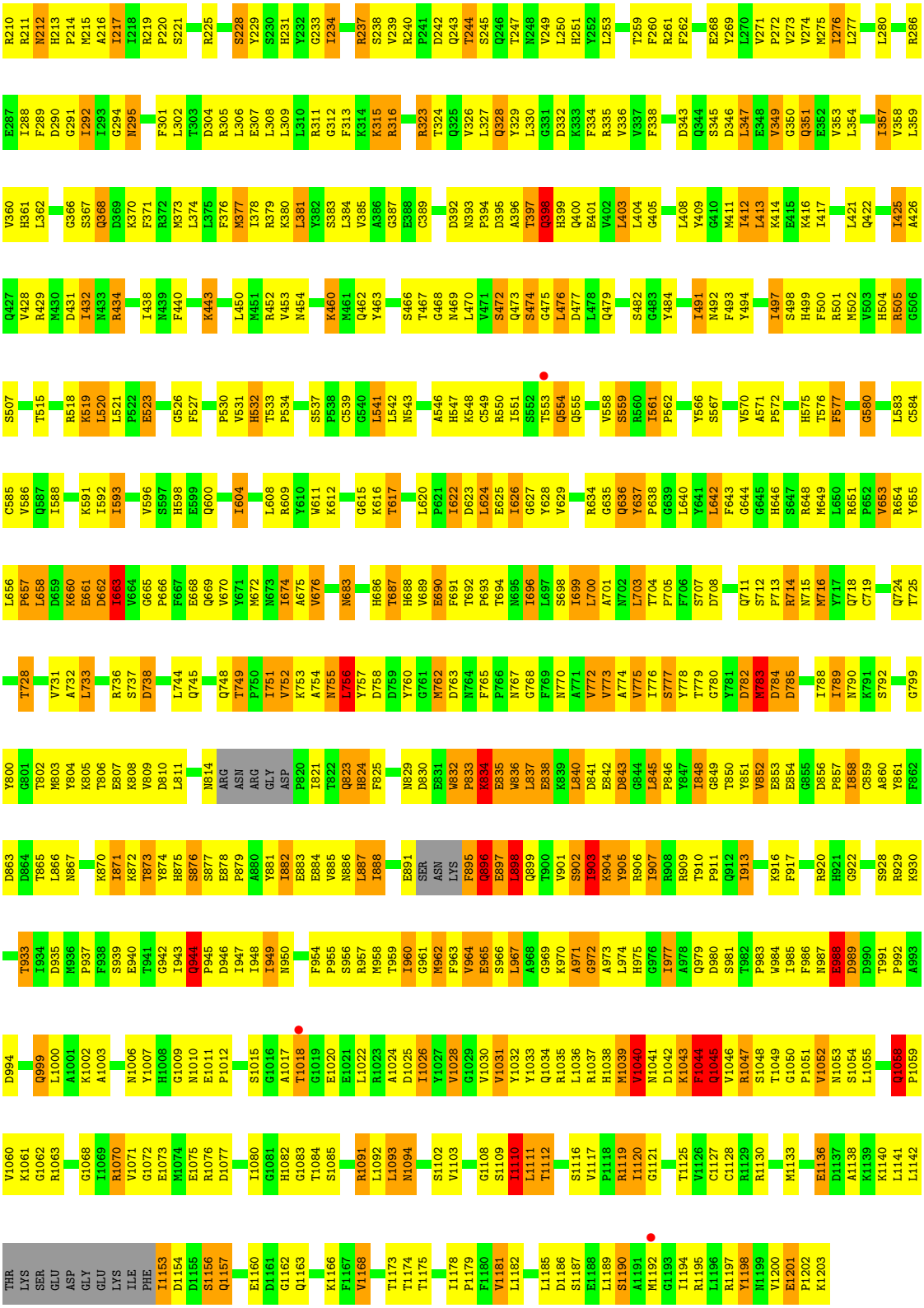




• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

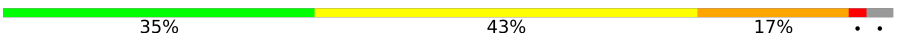
Chain BB:

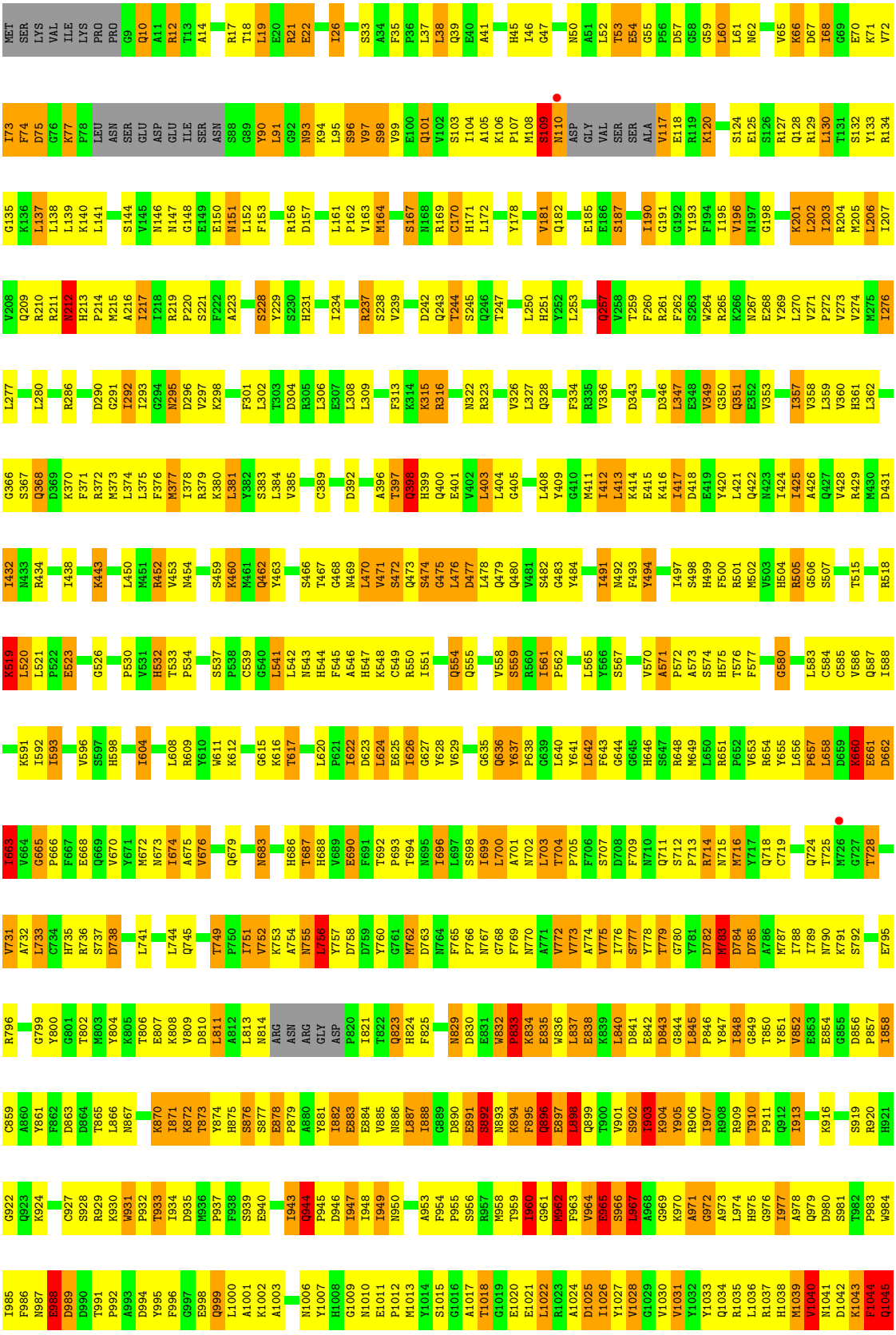




• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

Chain CB:

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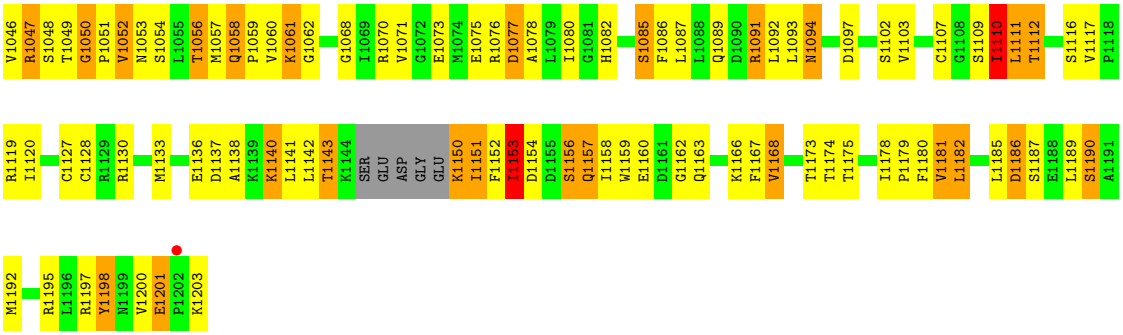
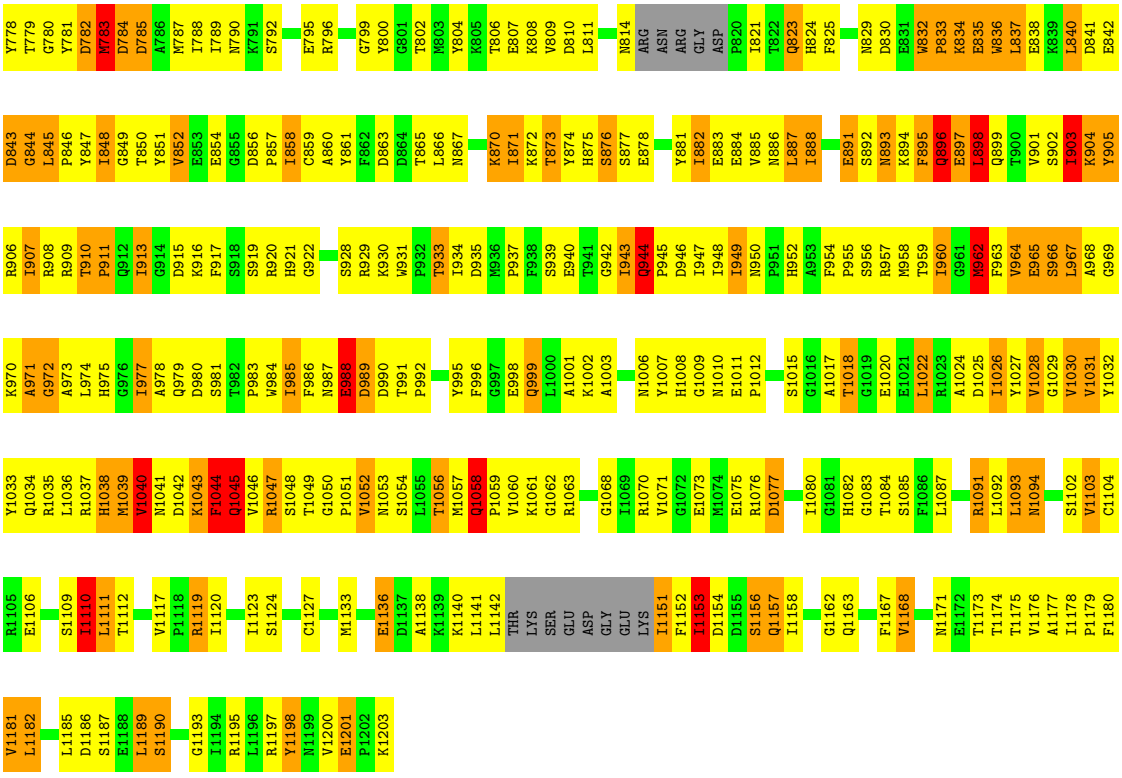
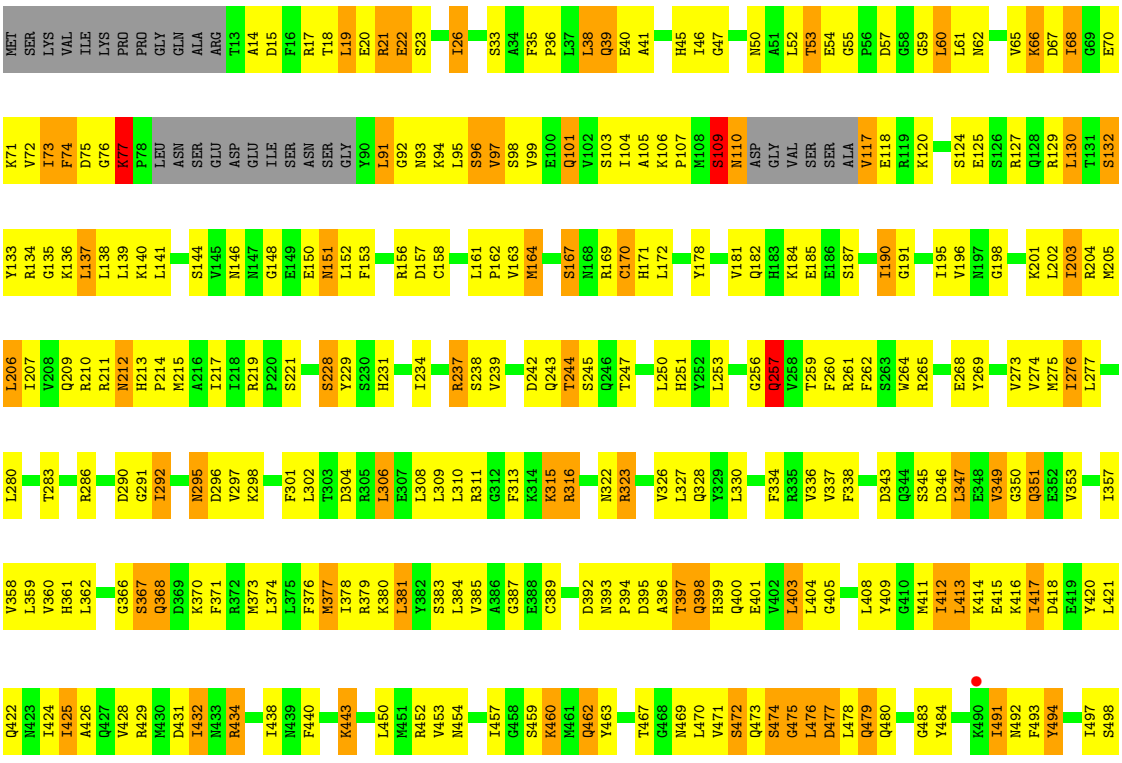
I73 F74 D75 G76 K77 P78 LEU ASN SER GLU ASP GLU ILE SER ASN S88 G89 Y90 L91 G92 N93 K94 L95 S96 V97 S98 V99 E100 Q101 V102 S103 I104 A105 K106 P107 M108 S109 N110 ASP GLY VAL SER SER ALA V117 E118 R119 K120 S124 E125 S126 R127 Q128 R129 L130 T131 S132 Y133 R134
G135 K136 L137 L138 L139 K140 L141 S144 V145 N146 N147 G148 E149 E150 N151 L152 F153 R156 D157 L161 P162 V163 M164 S167 N168 R169 C170 H171 L172 Y178 V181 Q182 E185 E186 S187 I190 G191 G192 Y193 F194 I195 V196 N197 G198 K201 L202 I203 R204 M205 L206 I207
V208 Q209 R210 R211 N212 H213 P214 M215 A216 I217 I218 R219 P220 S221 F222 A223 S228 Y229 S230 H231 I234 R237 S238 V239 D242 Q243 T244 S245 Q246 T247 L250 H251 Y252 L253 Q257 V258 T259 F260 R261 F262 S263 W264 R265 K266 N267 E268 Y269 L270 V271 P272 V273 V274 M275 I276
L277 L280 R286 D290 Q291 I292 I293 G294 N295 D296 V297 K298 F301 L302 T303 D304 H305 L306 E307 L308 L309 F313 K314 K315 R316 N322 R323 V326 L327 Q328 F334 R335 V336 D343 D346 L347 E348 V349 G350 Q351 E352 V353 I357 V358 L359 V360 H361 L362
G366 S367 Q368 D369 K370 F371 R372 M373 L374 L375 F376 M377 I378 R379 K380 L381 Y382 S383 L384 V385 C389 D392 A396 T397 Q398 H399 Q400 E401 V402 L403 L404 G405 L408 Y409 G410 M411 I412 L413 K414 E415 K416 I417 D418 E419 Y420 L421 Q422 N423 I424 I425 A426 Q427 V428 R429 M430 D431
I432 N433 R434 I438 K443 L450 M451 R452 V453 N454 S459 K460 M461 Q462 Y463 S466 T467 G468 N469 L470 V471 S472 Q473 S474 G475 L476 D477 L478 Q479 Q480 V481 S482 G483 Y484 I491 N492 F493 Y494 I497 S498 H499 P500 R501 M502 V503 H504 R505 G506 S507 T515 R518
K519 L520 L521 P522 E523 G526 P530 V531 H532 T533 P534 S537 P538 C539 G540 L541 L542 N543 H544 F545 A546 H547 K548 C549 R550 I551 Q554 Q555 V558 S559 R560 I561 P562 L565 Y566 S567 V570 A571 P572 A573 S574 H575 T576 F577 G580 L583 C584 C585 V586 Q587 I588
K591 I592 I593 V596 S597 H598 I604 L608 R609 Y610 W611 K612 G615 K616 T617 L620 P621 I622 D623 L624 E625 I626 G627 Y628 V629 G635 Q636 Y637 P638 G639 L640 Y641 L642 F643 G644 G645 H646 S647 R648 M649 L650 R651 P652 V653 R654 Y655 L656 P657 L658 D659 K660 E661 D662
I663 V664 G665 P666 F667 E668 Q669 V670 Y671 M672 N673 I674 A675 V676 Q679 N683 H686 T687 H688 V689 E690 F691 T692 P693 T694 N695 I696 L697 S698 I699 L700 A701 N702 L703 T704 P705 F706 S707 D708 F709 N710 Q711 S712 P713 R714 N715 M716 Y717 Q718 C719 Q724 T725 M726 G727 T728
V731 A732 L733 C734 H735 R736 S737 D738 L741 L744 Q745 T749 P750 I751 V752 K753 A754 N755 L756 Y757 D758 D759 Y760 G761 M762 D763 W764 F765 P766 N767 G768 F769 N770 A771 V772 V773 A774 V775 I776 S777 Y778 T779 G780 Y781 D782 M783 D784 D785 A786 M787 I788 T789 N790 K791 S792 E795
R796 G799 Y800 G801 T802 M803 Y804 K805 T806 E807 K808 V809 D810 L811 A812 L813 N814 ARG ASN ARG GLY ASP P820 I821 T822 Q823 H824 F825 N829 D830 E831 W832 P833 K834 E835 W836 L837 E838 K839 L840 D841 E842 D843 G844 L845 P846 Y847 I848 G849 T850 Y851 V852 E853 E854 G855 D856 P857 I858
C859 A860 Y861 F862 D863 D864 T865 L866 N867 K870 I871 K872 T873 Y874 H875 S876 S877 E878 P879 A880 Y881 I882 E883 E884 V885 N886 L887 I888 G889 D890 E891 S892 N893 K894 F895 Q896 E897 L898 Q899 T900 V901 S902 I903 K904 Y905 R906 I907 N908 R909 D784 T910 P911 Q912 I913 K916 S919 R920 H921
Q922 Q923 K924 C927 S928 R929 K930 W931 P932 T933 I934 D935 M936 P937 F938 S939 E940 I943 Q944 P945 D946 I947 I948 I949 N950 A953 F954 P955 S956 R957 M958 T959 I960 G961 M962 F963 V964 E965 S966 L967 A968 G969 K970 A971 G972 A973 L974 H975 G976 I977 A978 Q979 D980 S981 T982 P983 W984
I985 F986 N987 E988 D989 D990 T991 P992 A993 D994 Y995 F996 G997 E998 Q999 L1000 A1001 K1002 A1003 N1006 Y1007 H1008 G1009 N1010 E1011 P1012 M1013 Y1014 S1015 G1016 A1017 T1018 G1019 E1020 E1021 L1022 R1023 A1024 D1025 I1026 Y1027 V1028 G1029 V1030 V1031 Y1032 Y1033 Q1034 R1035 L1036 R1037 H1038 M1039 V1040 N1041 D1042 K1043 F1044 Q1045

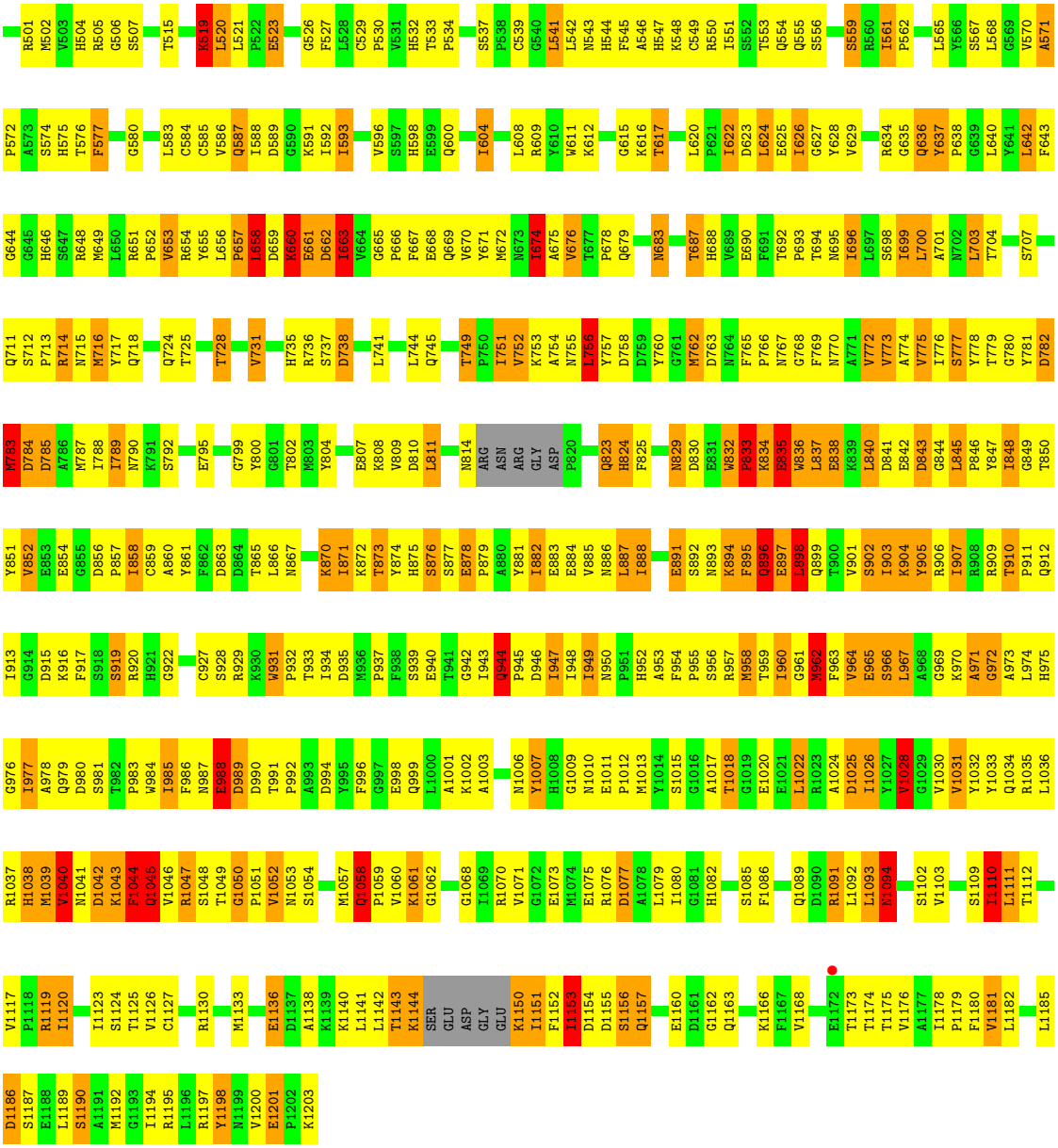




• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

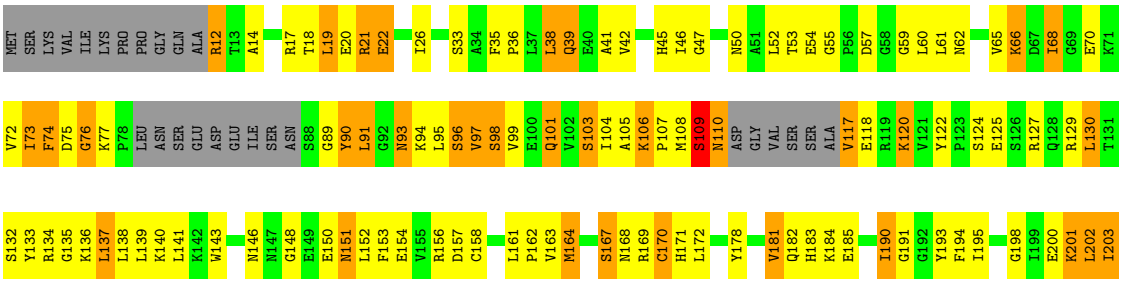
Chain EB:

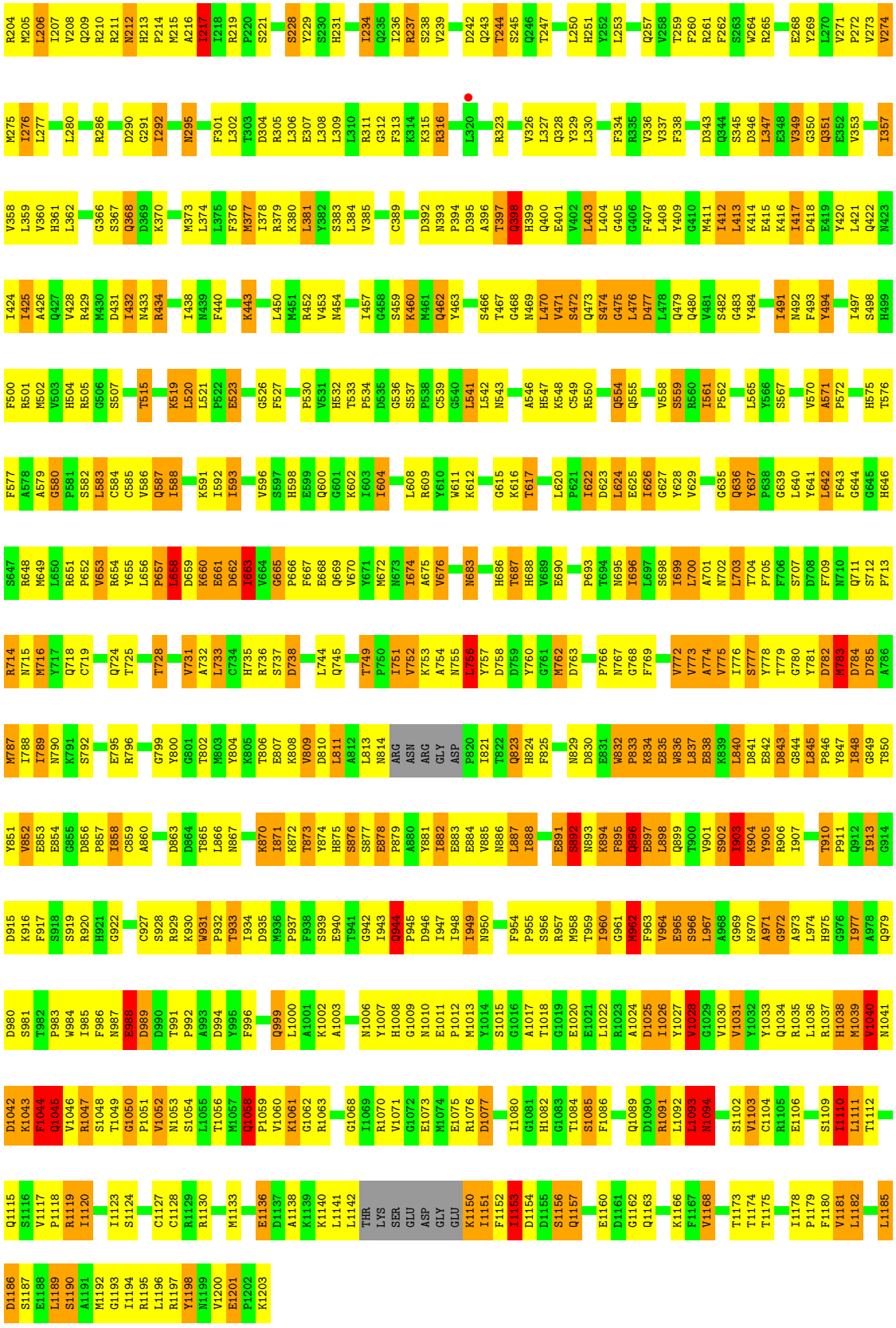




• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

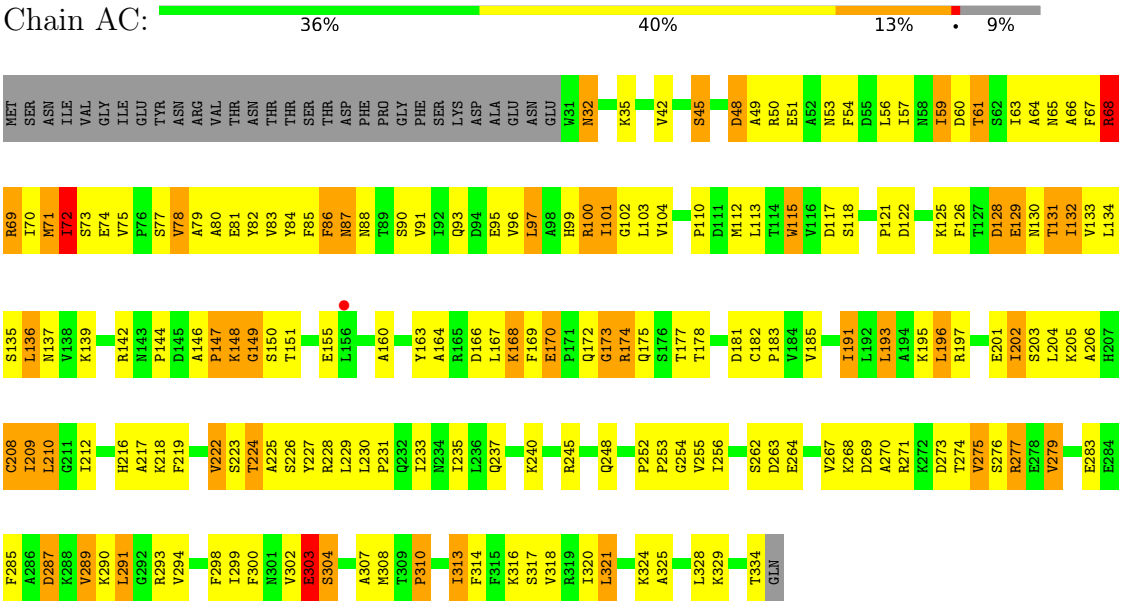
Chain FB:





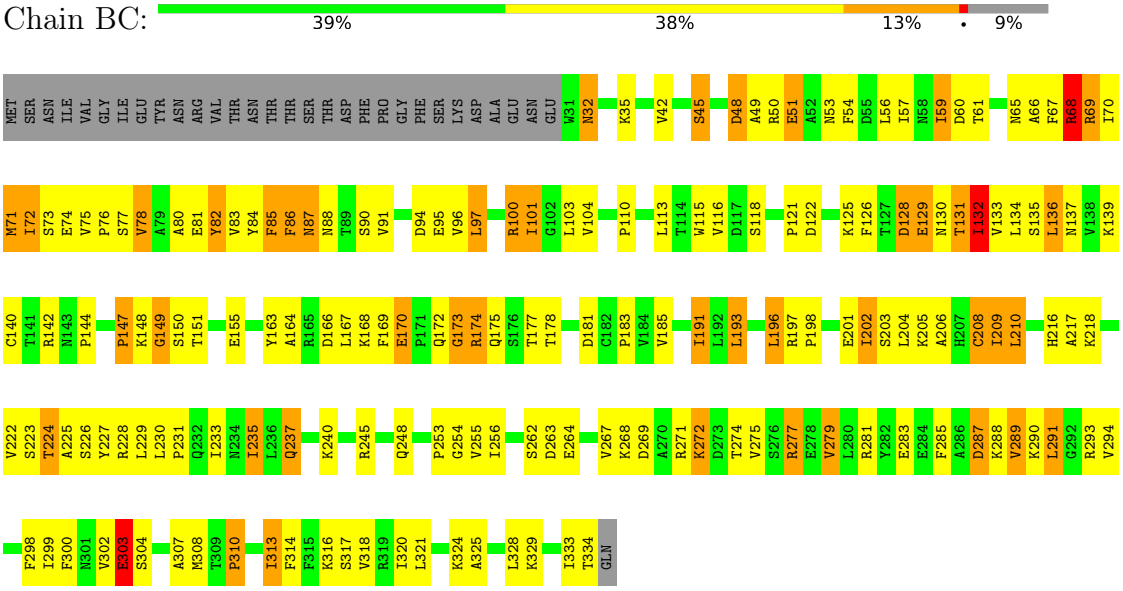
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

Chain AC:



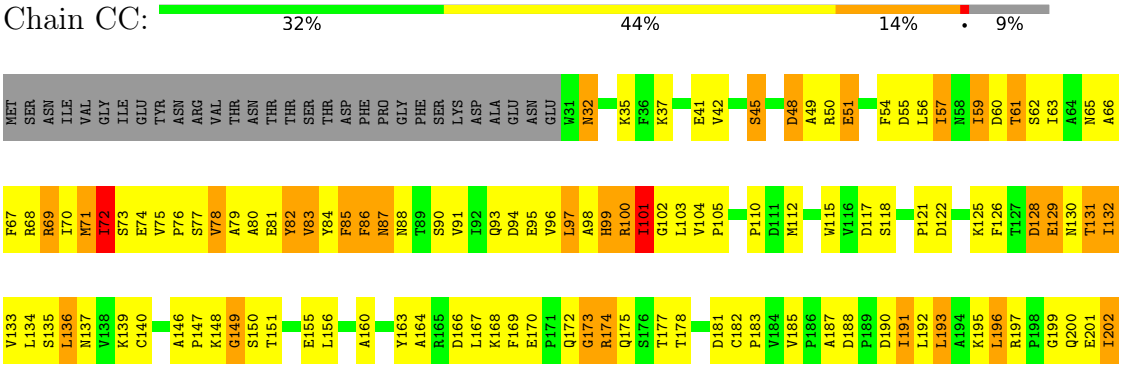
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

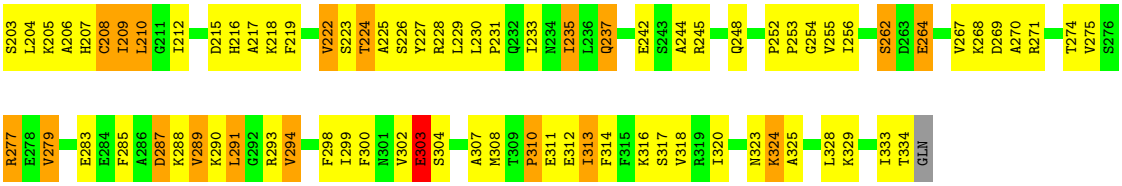
Chain BC:



• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

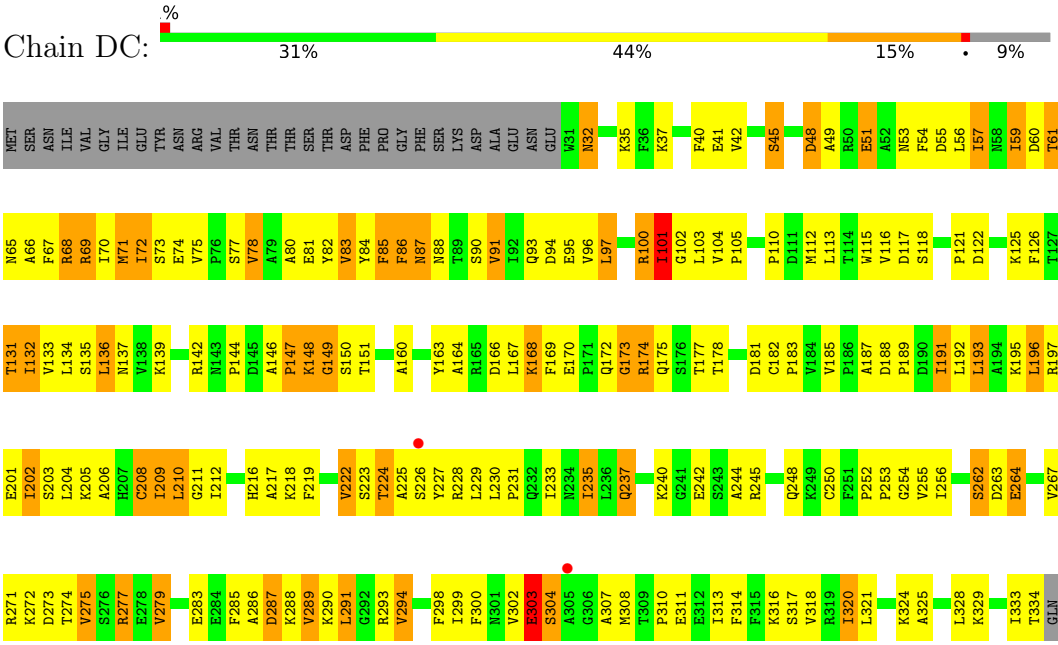
Chain CC:





• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

Chain DC:



• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

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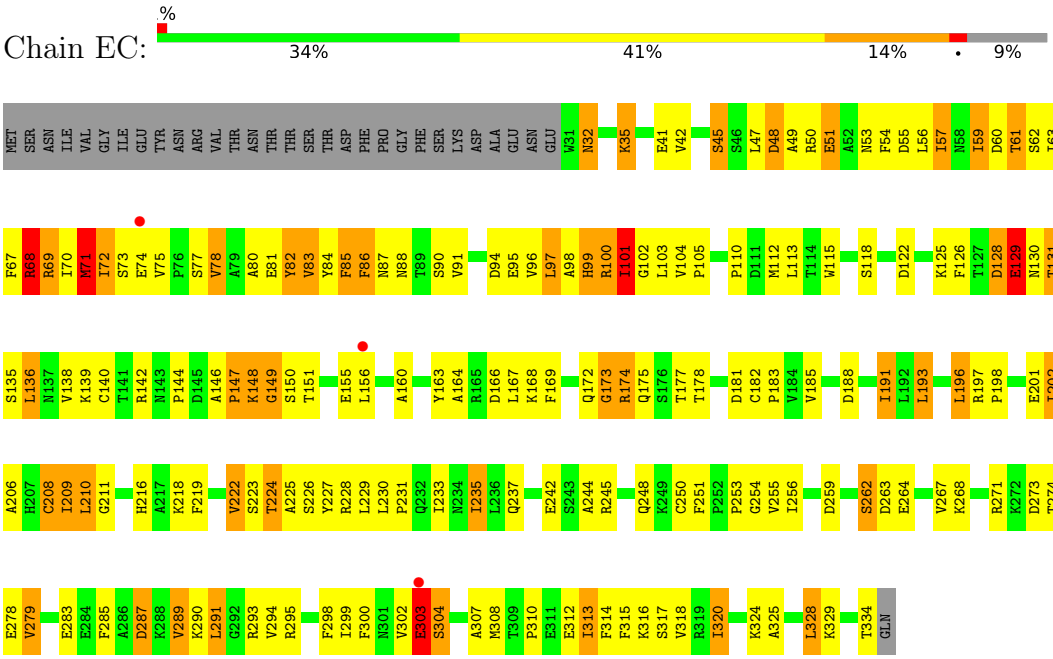
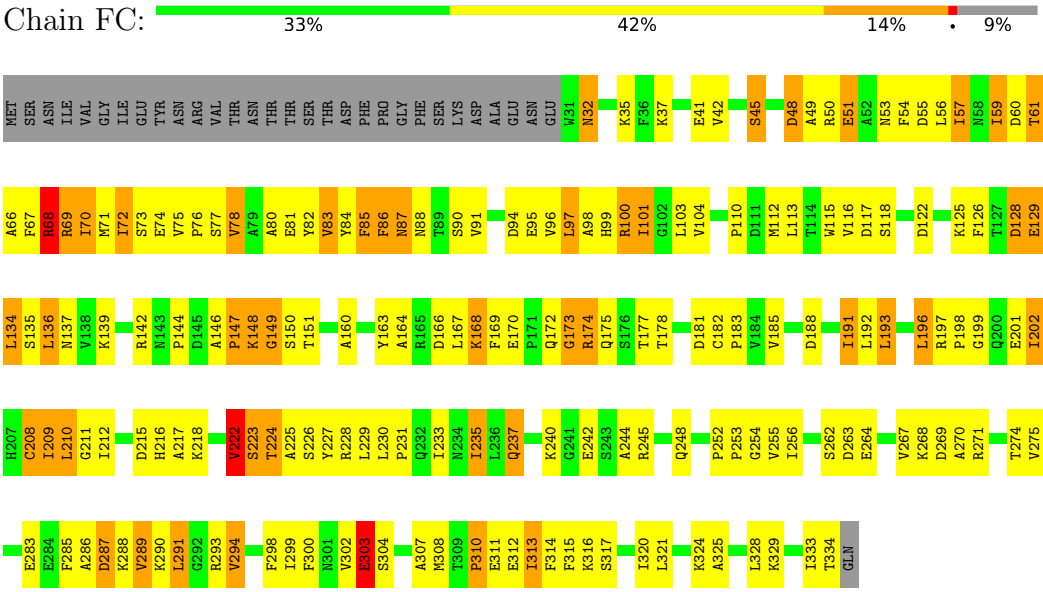


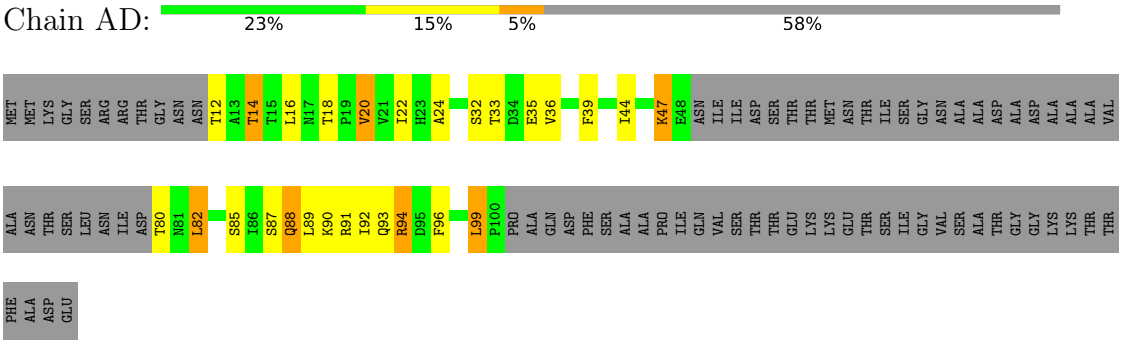
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

Chain FC:



• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

Chain AD:



• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

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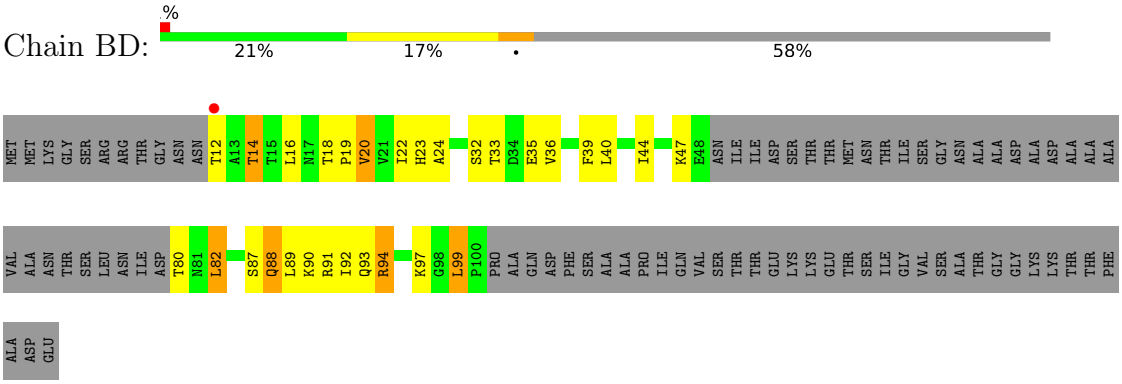
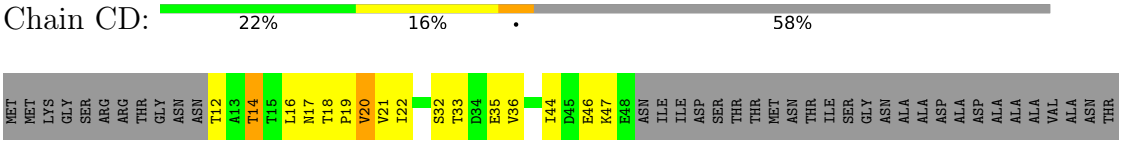
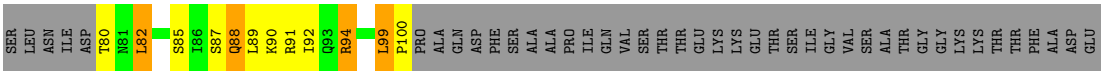


• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

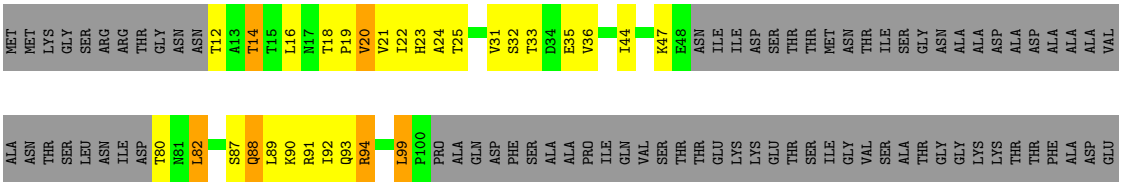
Chain CD:





• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

Chain DD:



• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

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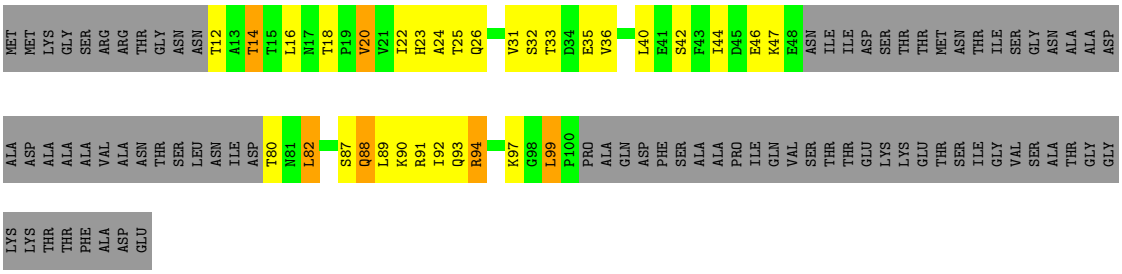
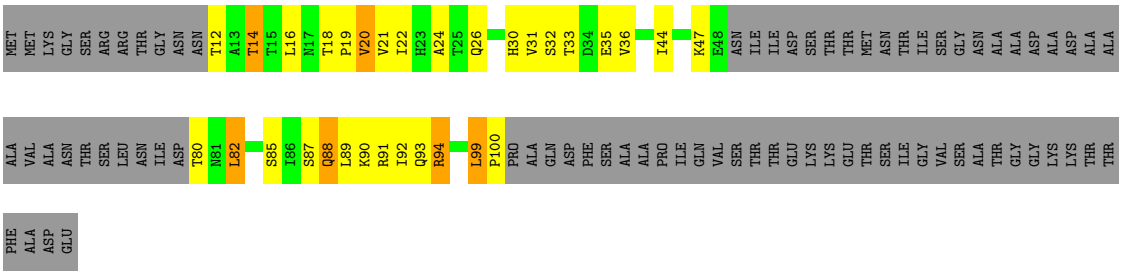


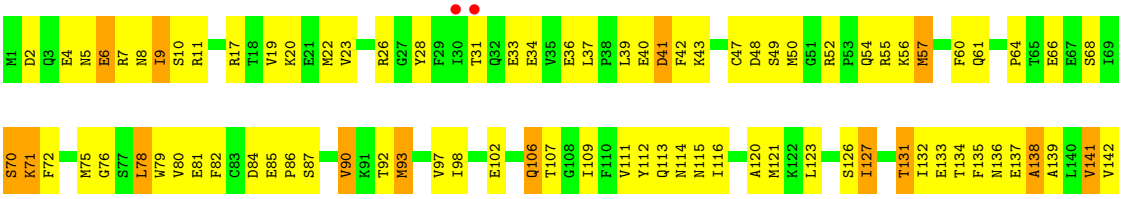
• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

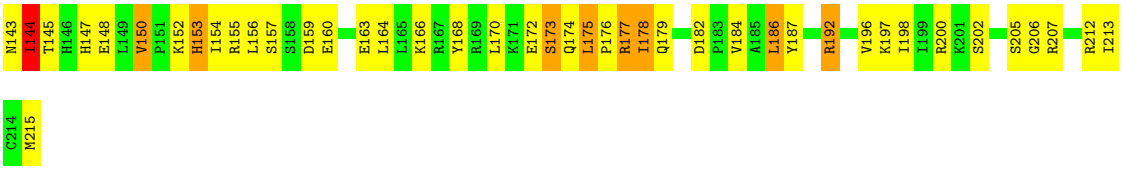
Chain FD:



• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

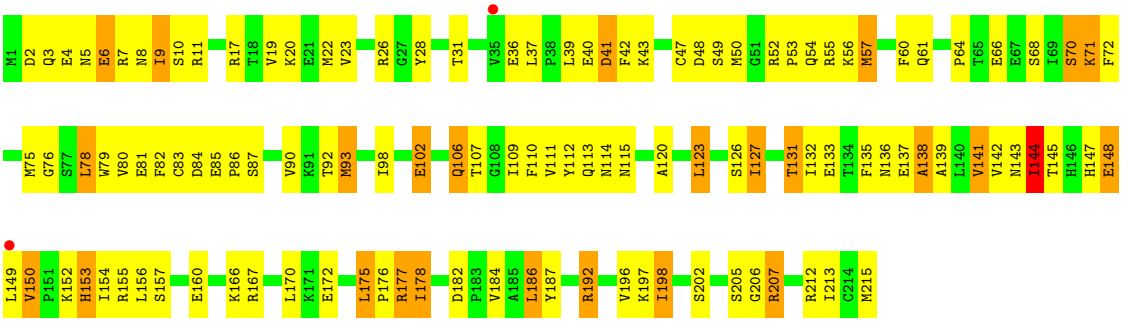
Chain AE:





• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

Chain BE:



• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

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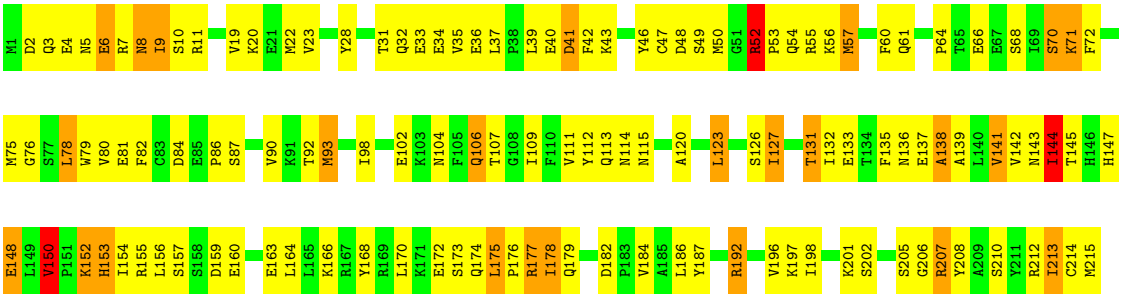
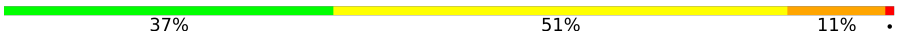
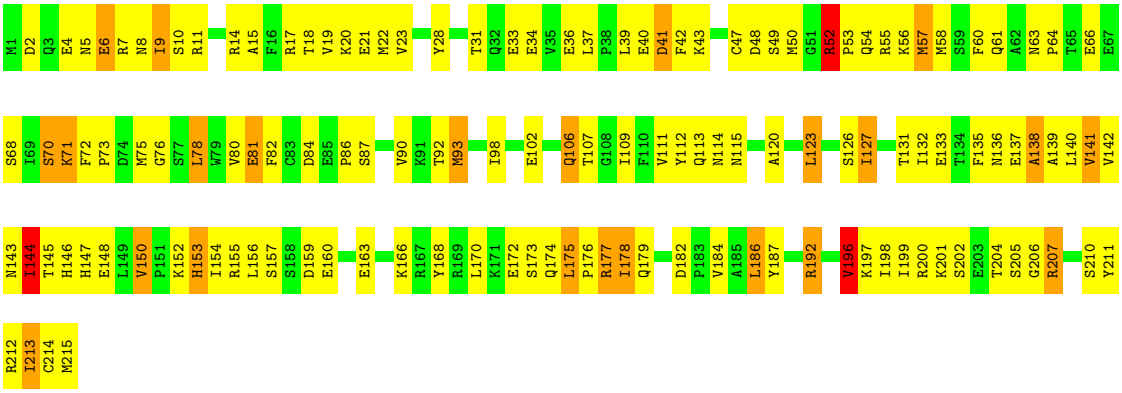


• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

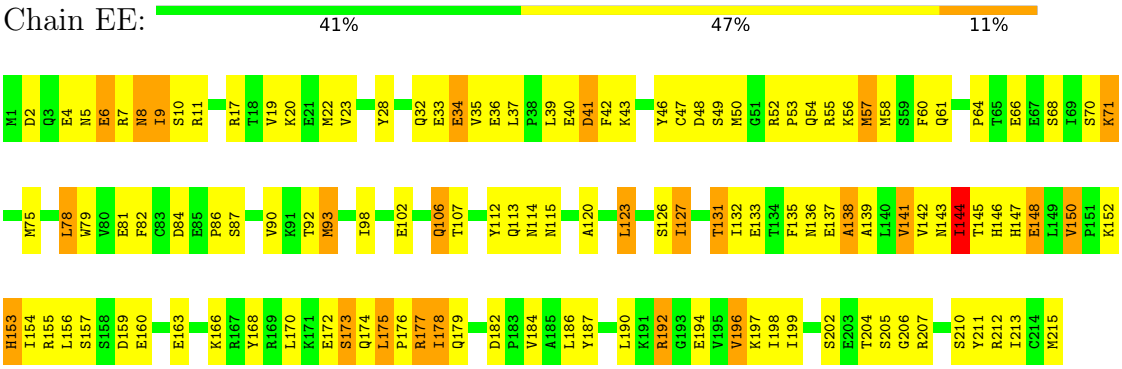
Chain DE:





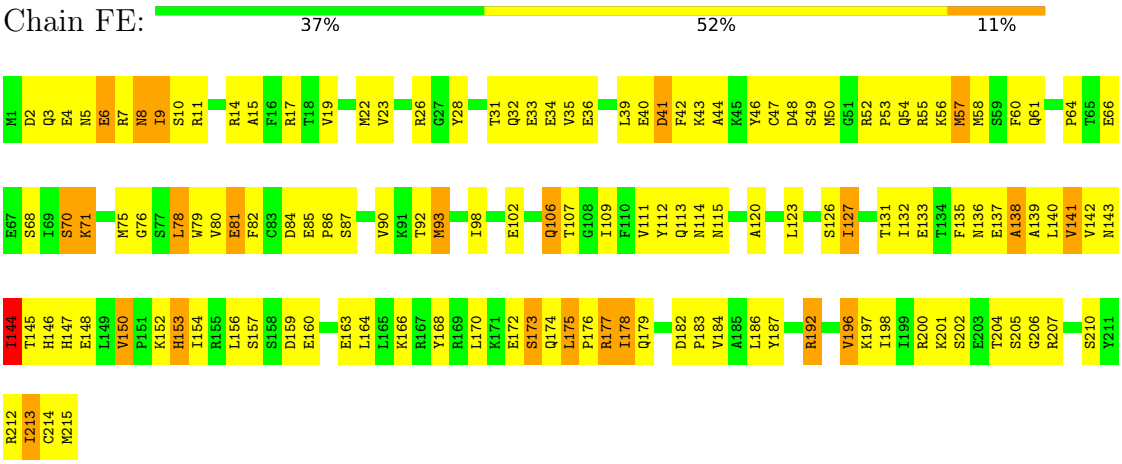
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

Chain EE:



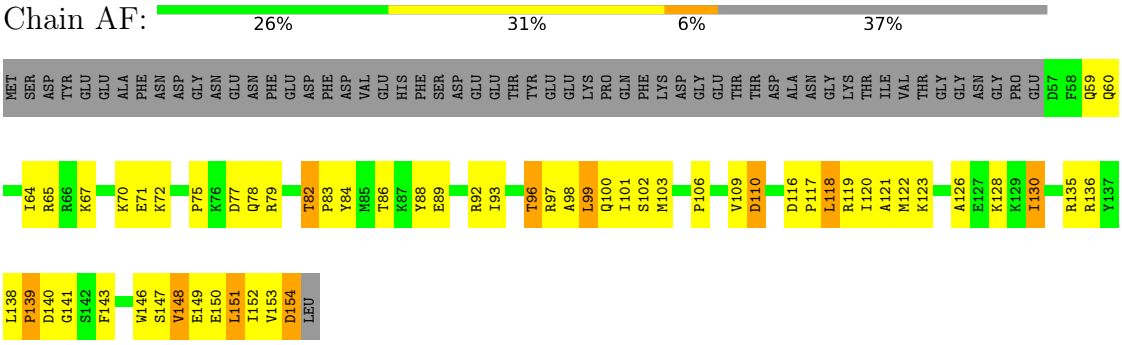
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

Chain FE:



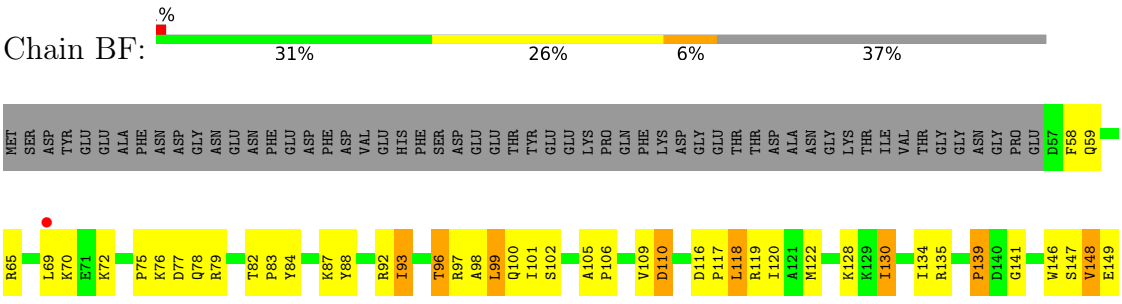
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

Chain AF:



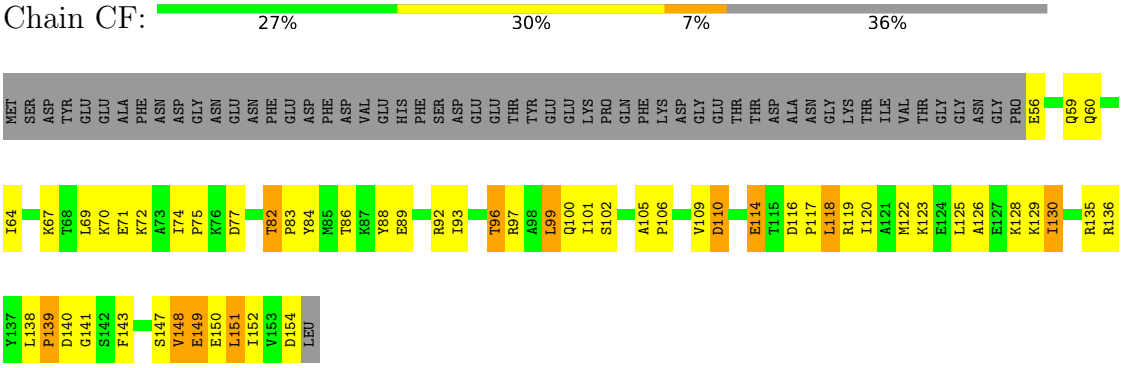
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

Chain BF:



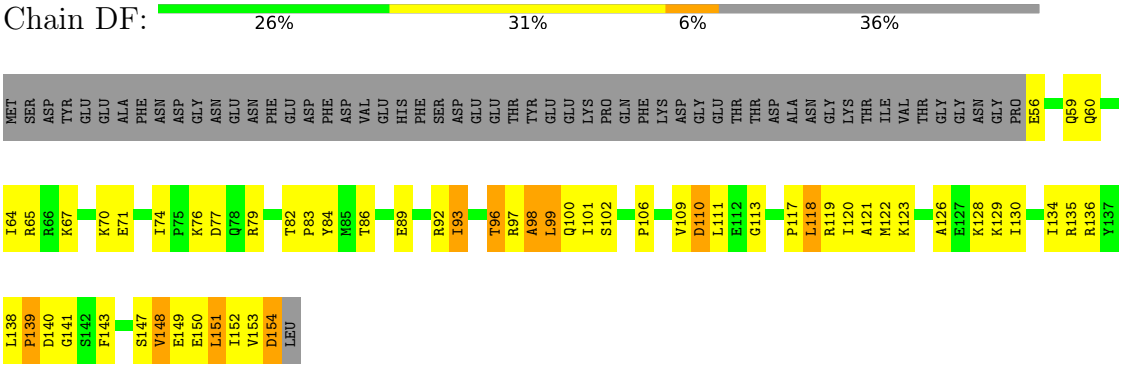
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

Chain CF:



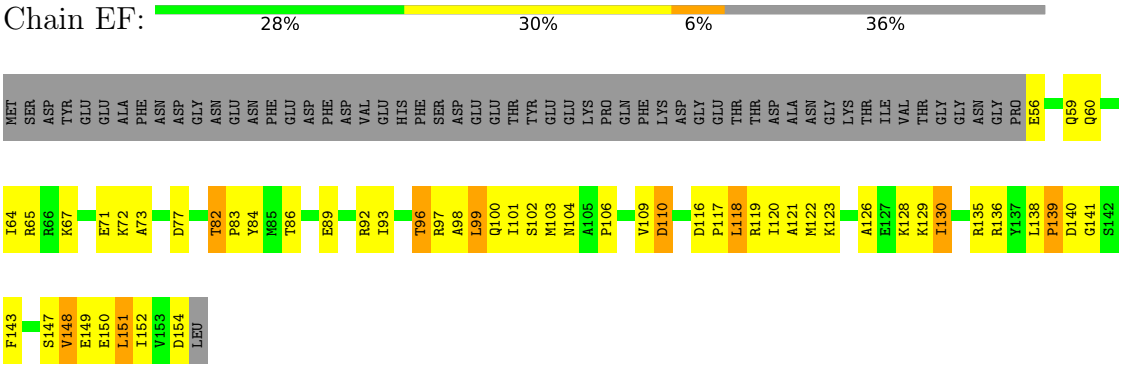
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

Chain DF:



• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

Chain EF:



• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

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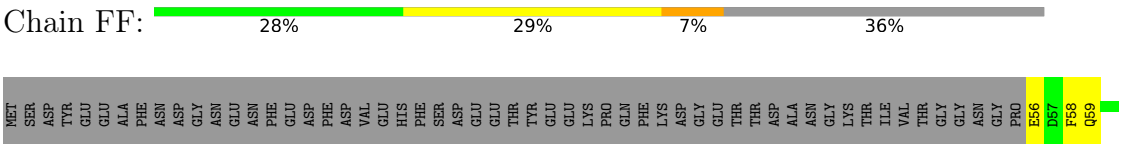
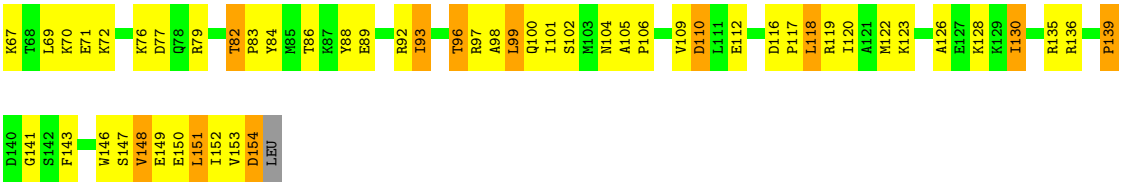
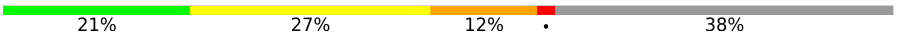
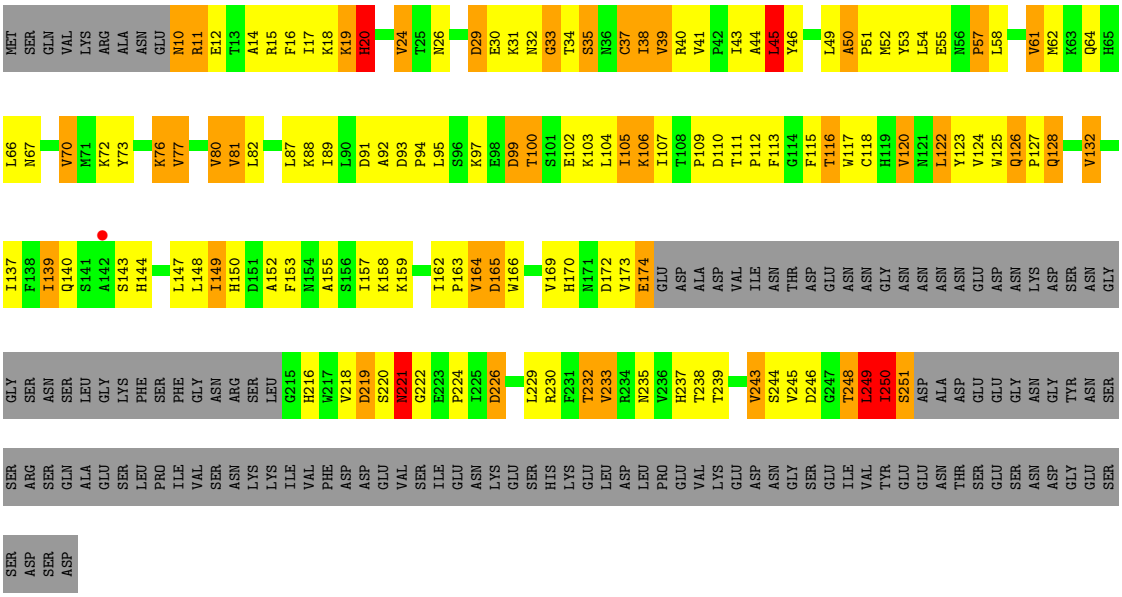




• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

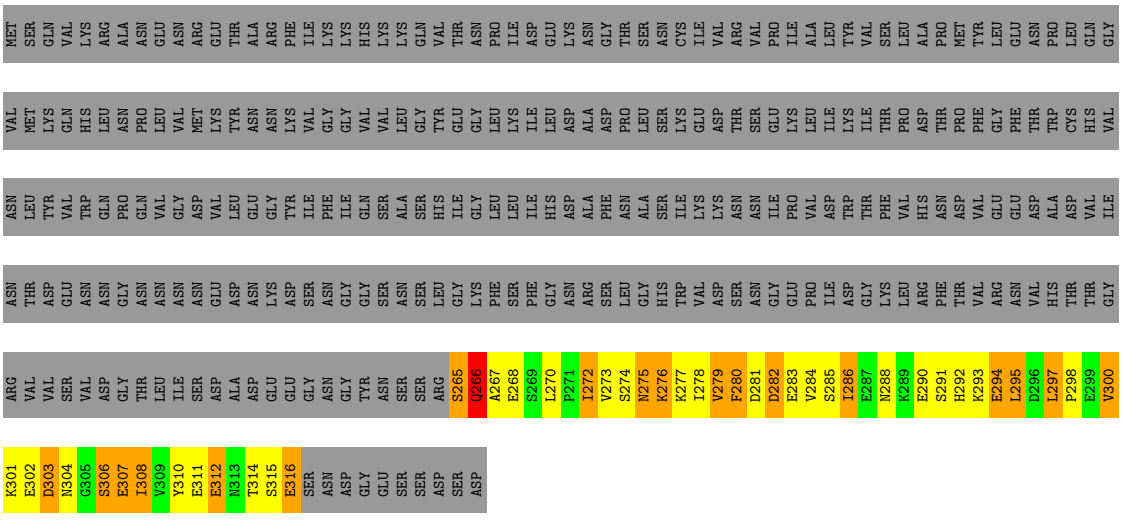
Chain AG:





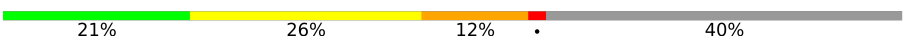
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

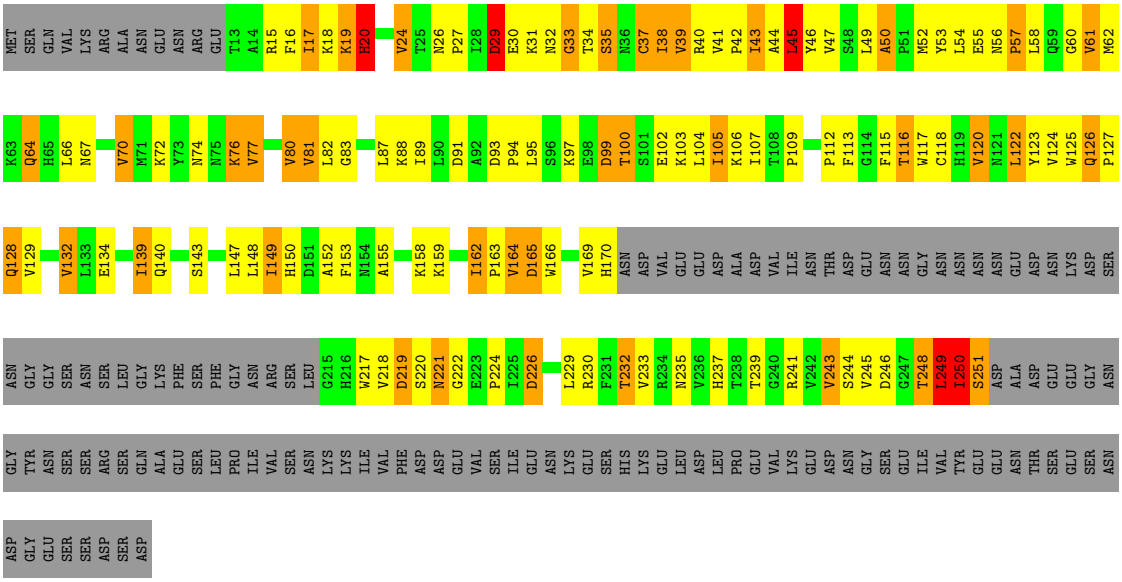
Chain AO:



• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

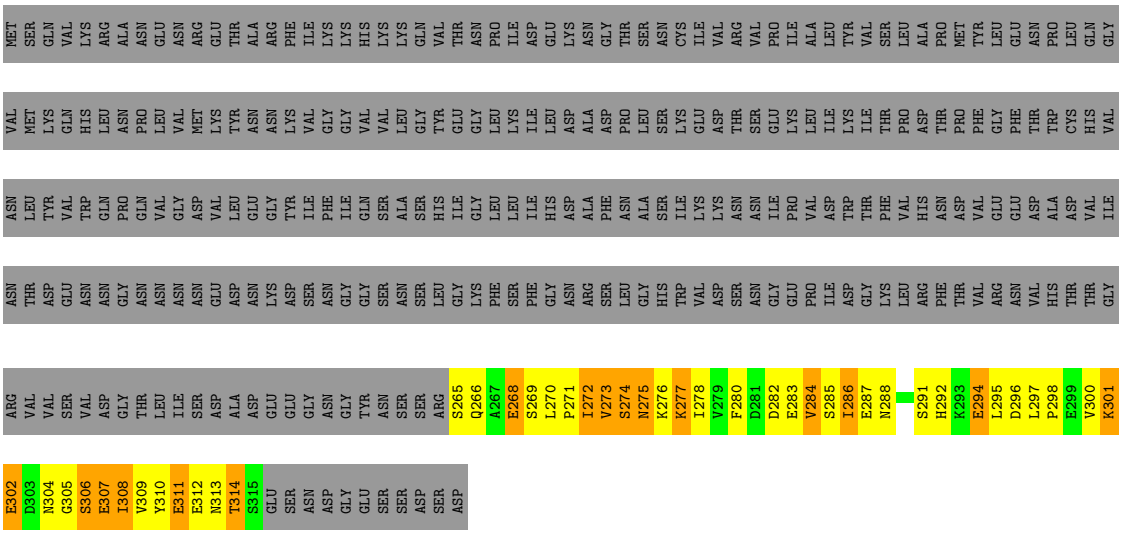
Chain BG:





• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain BO:



• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

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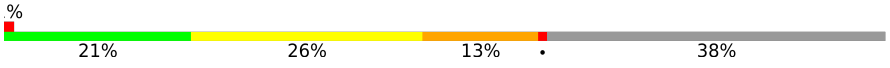
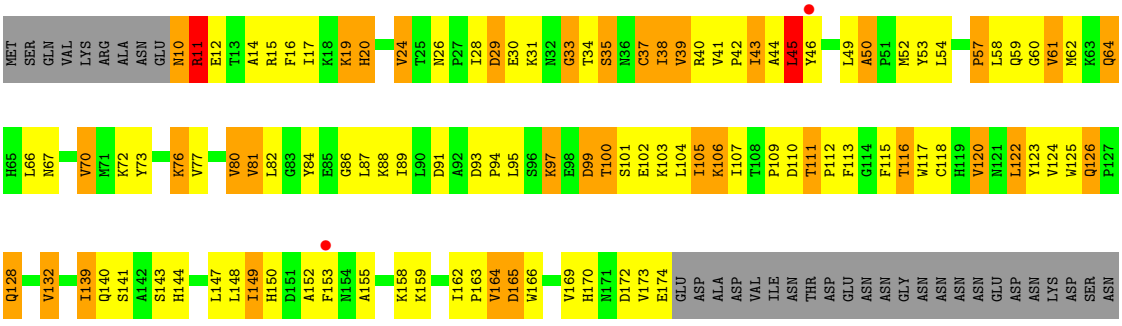
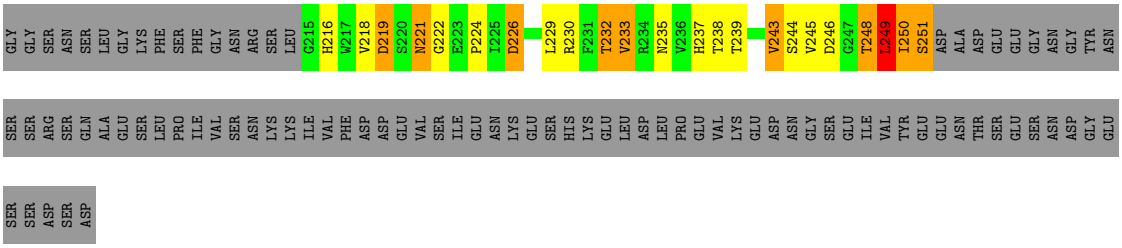
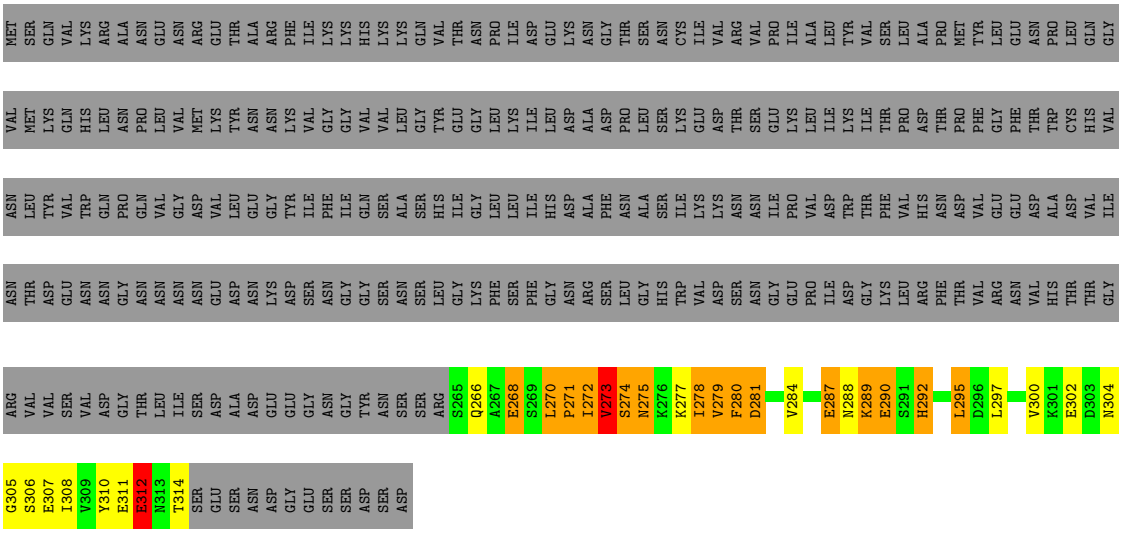






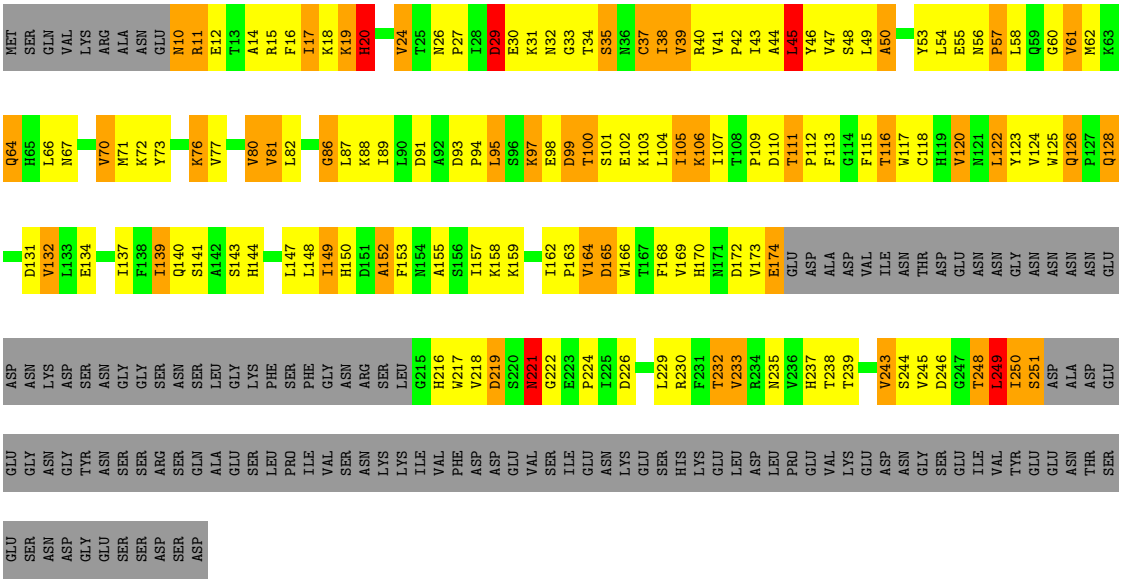
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain CO:



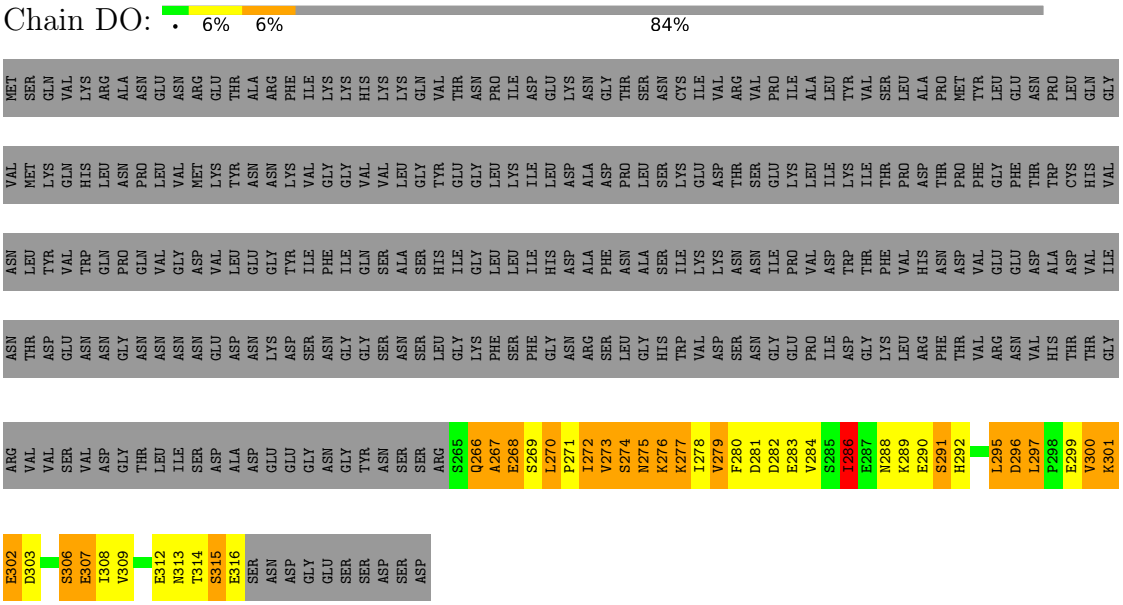
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain DG:



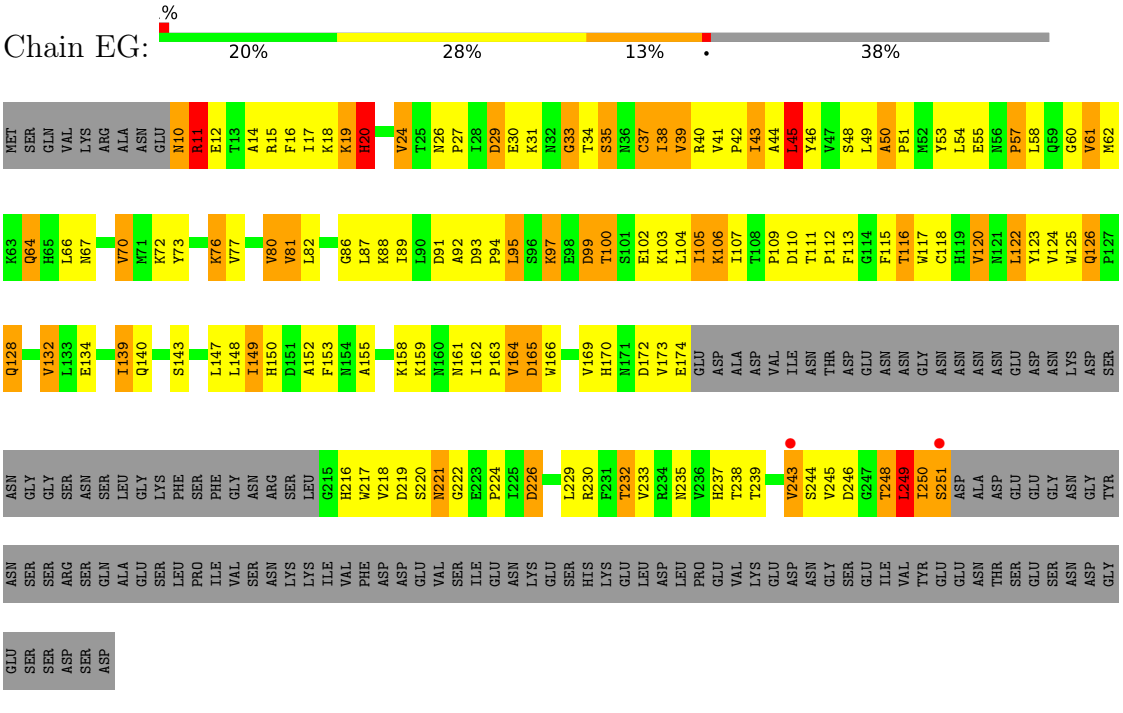
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain DO:



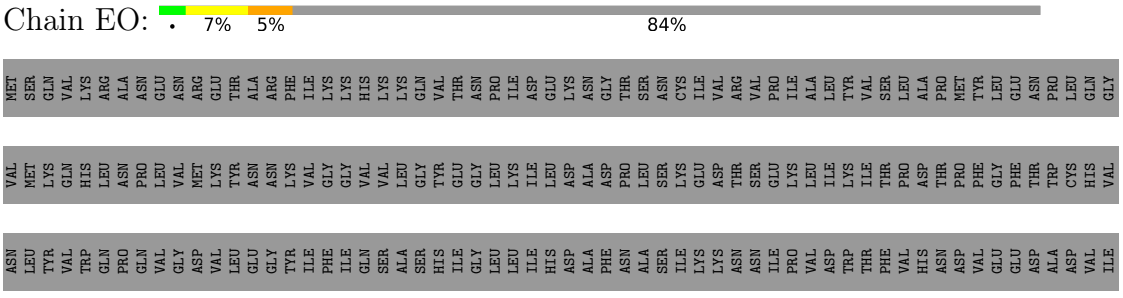
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

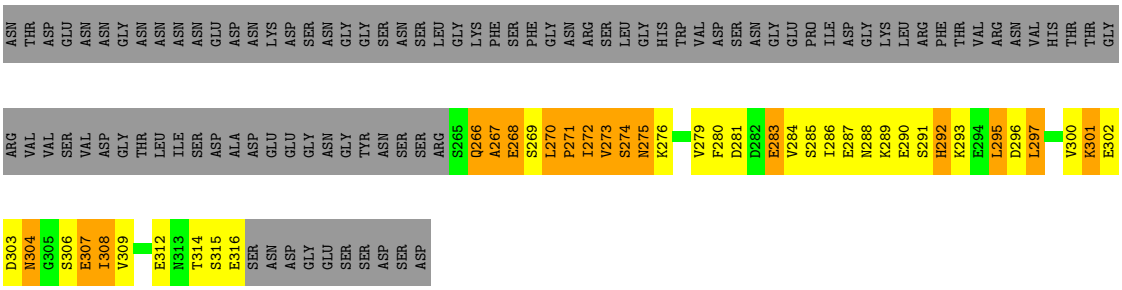
Chain EG:



• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

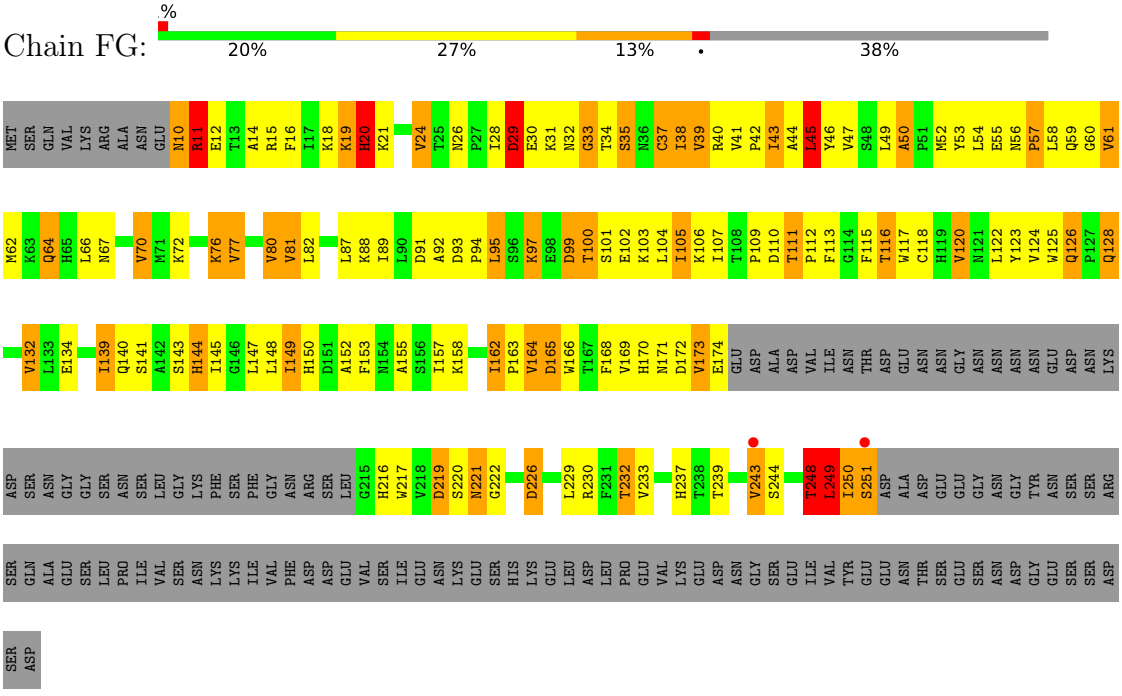
Chain EO:





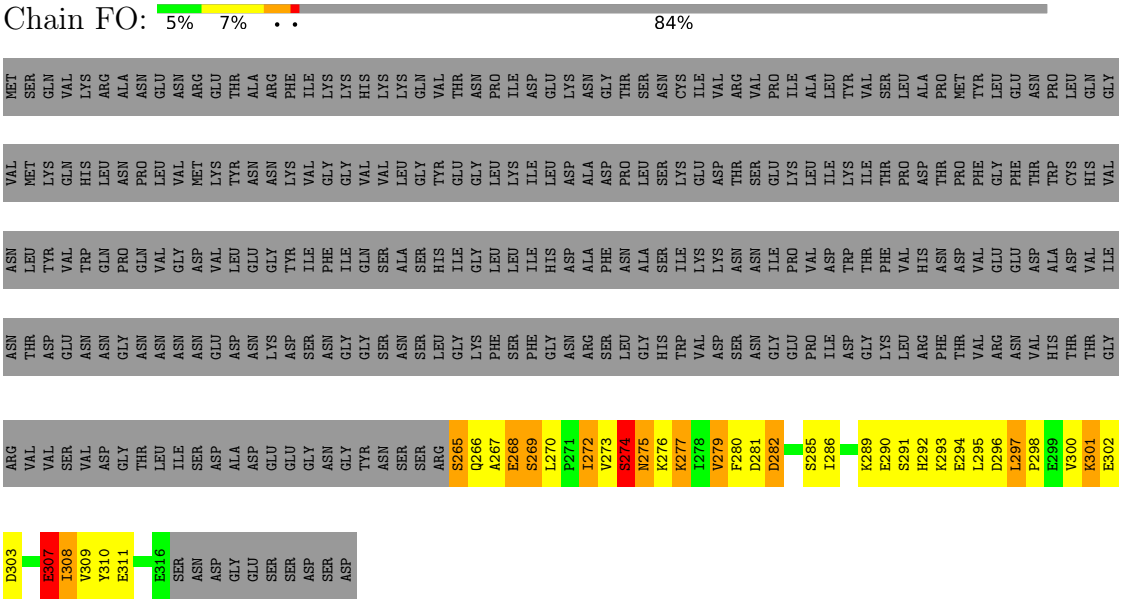
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain FG:



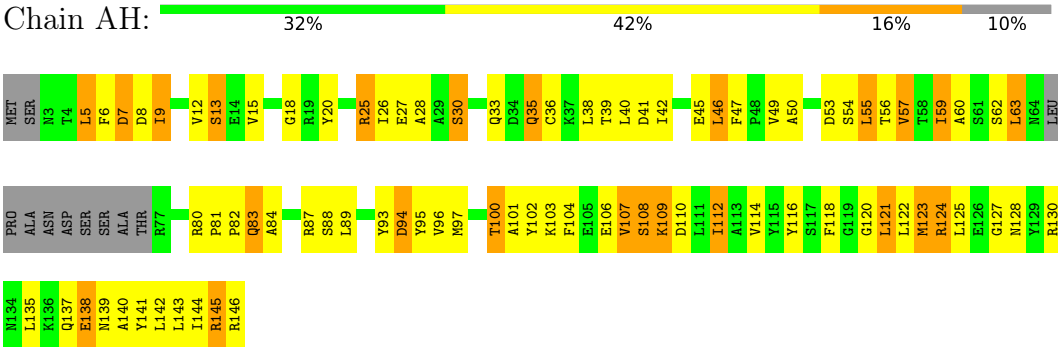
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain FO:



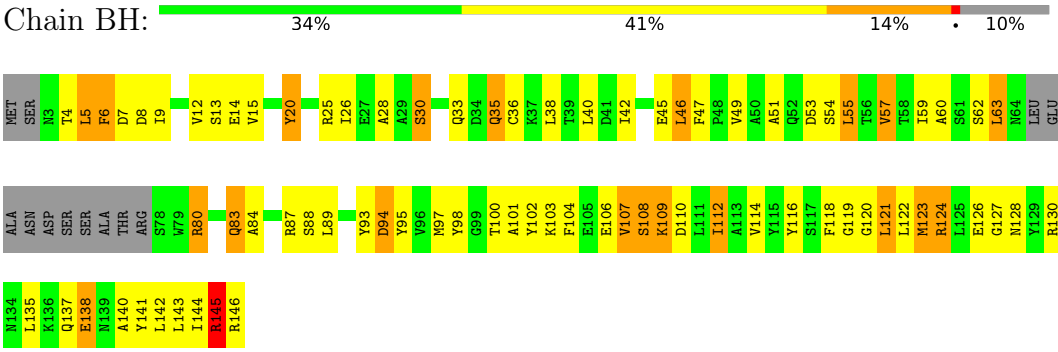
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain AH:



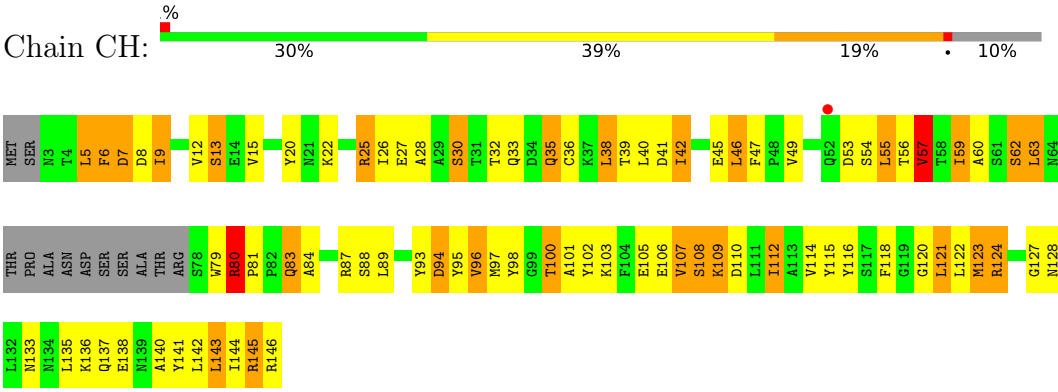
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain BH:



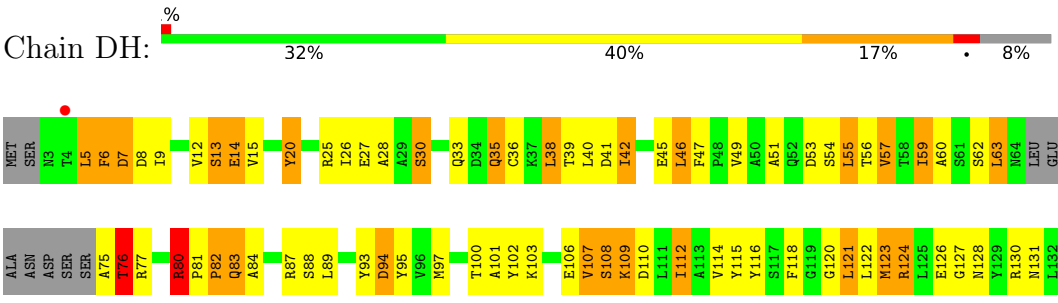
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

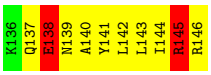
Chain CH:



• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

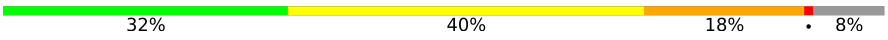
Chain DH:

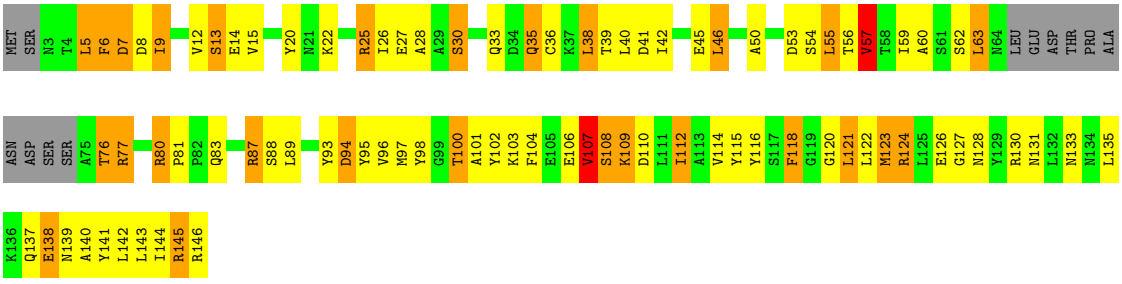




• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

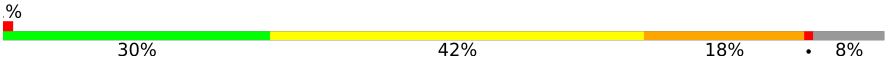
Chain EH:

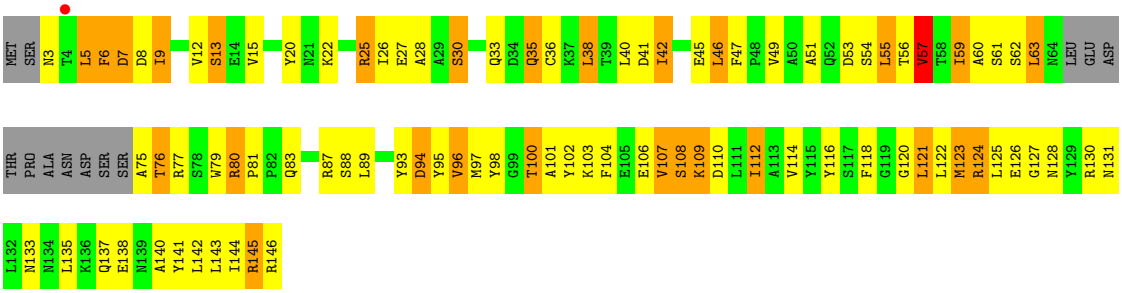




• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

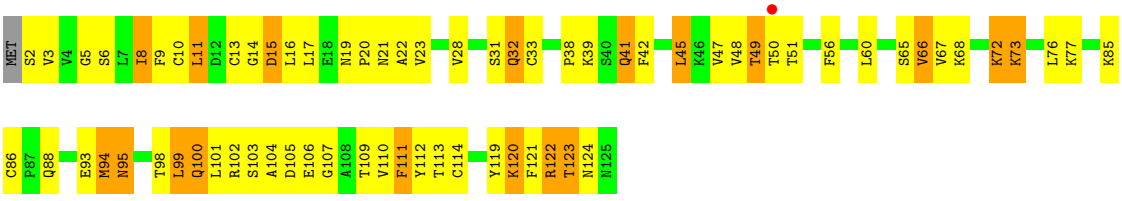
Chain FH:





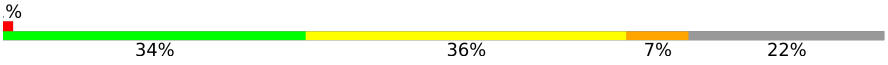
• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

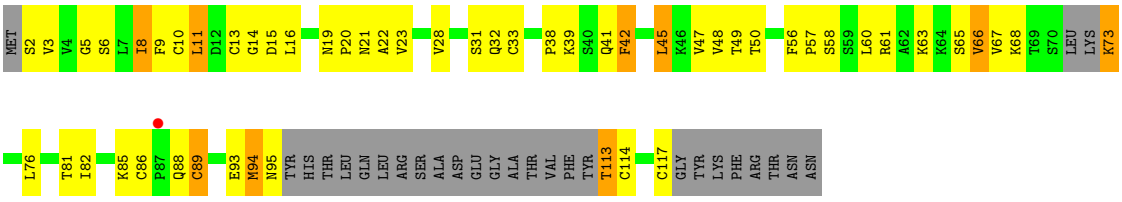
Chain AI:



• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

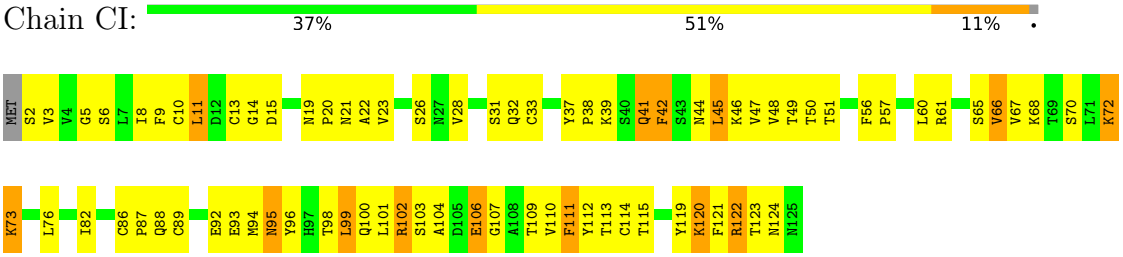
Chain BI:





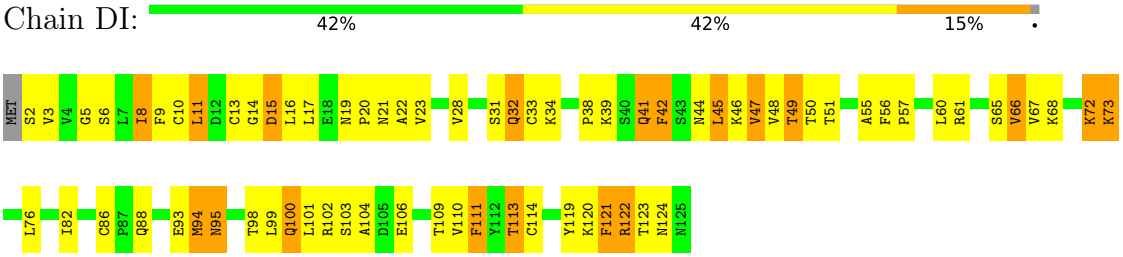
• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

Chain CI:



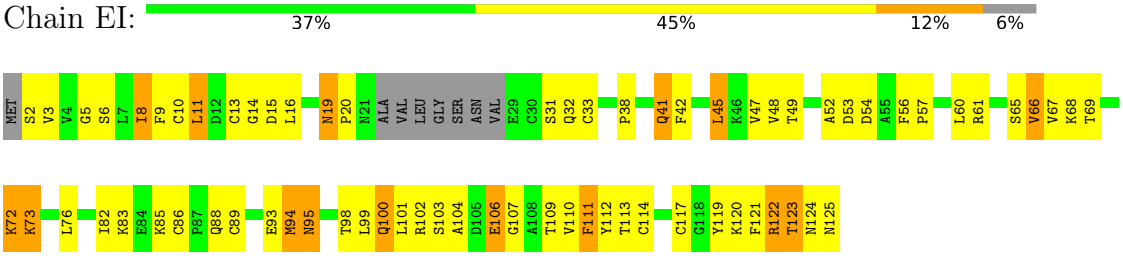
• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

Chain DI:



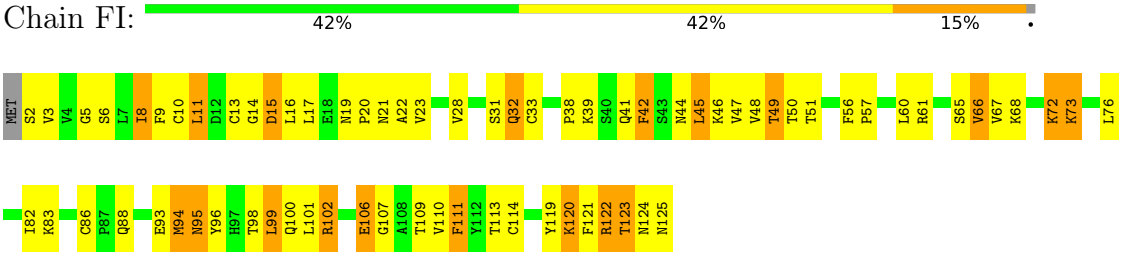
• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

Chain EI:



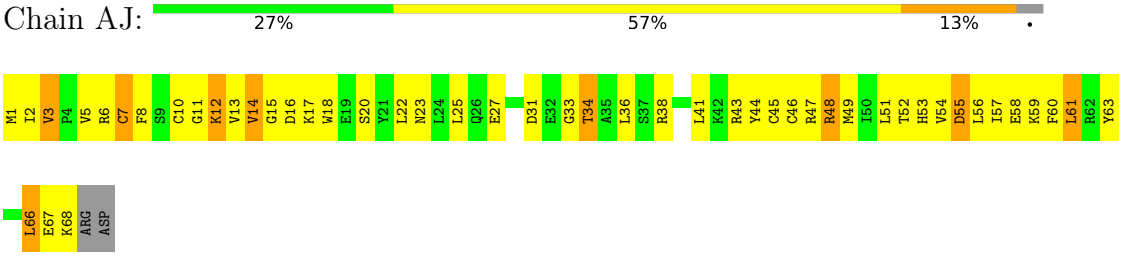
• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

Chain FI:



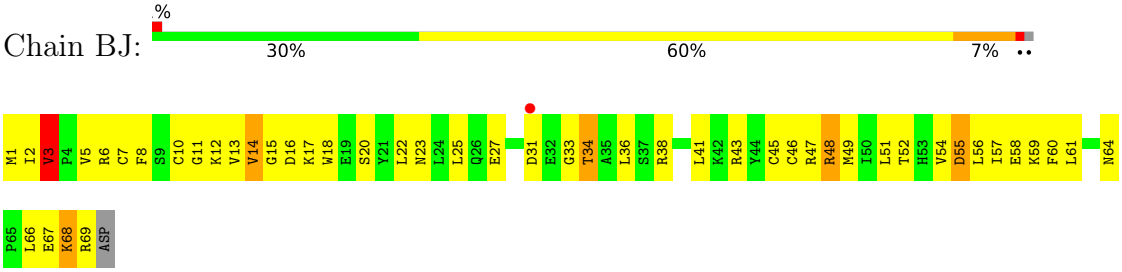
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain AJ:



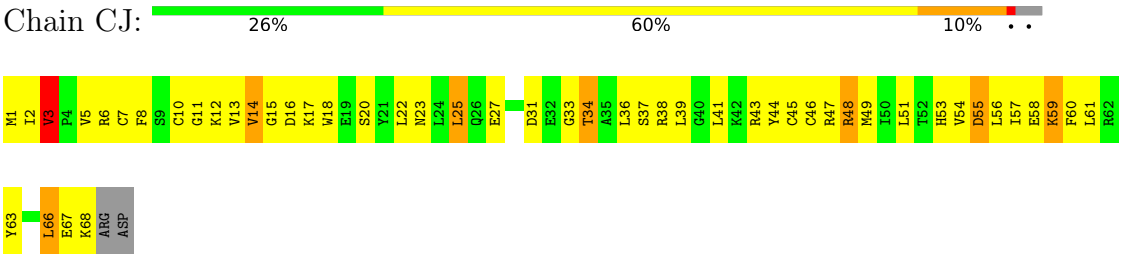
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain BJ:



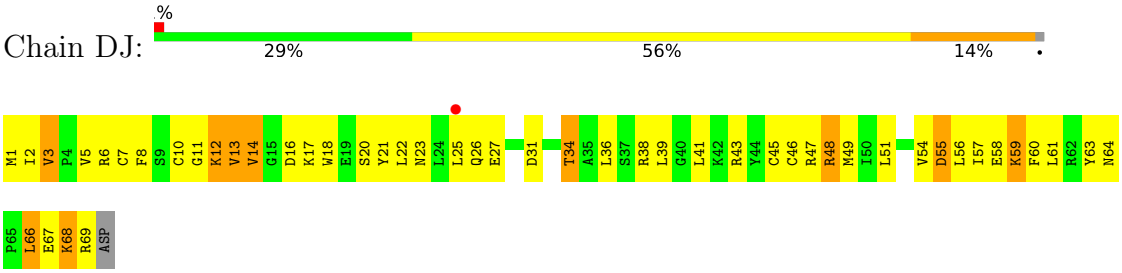
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain CJ:



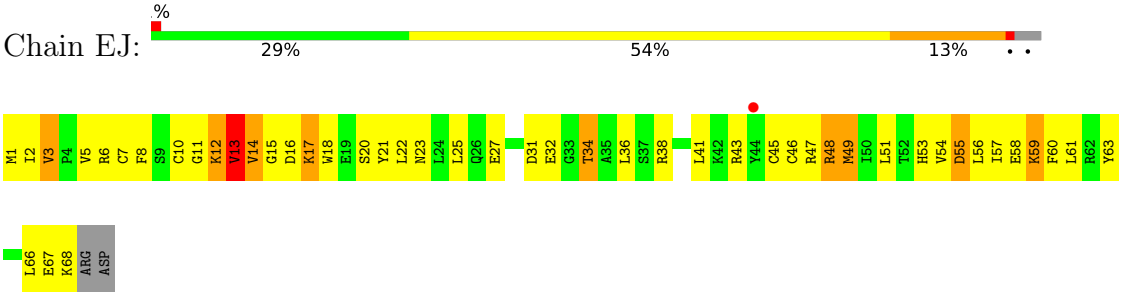
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain DJ:



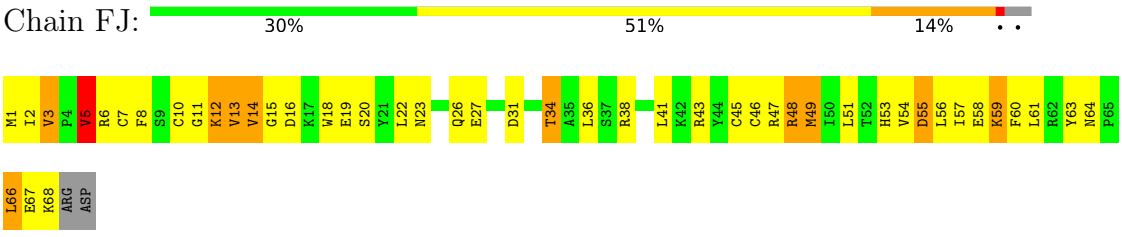
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain EJ:



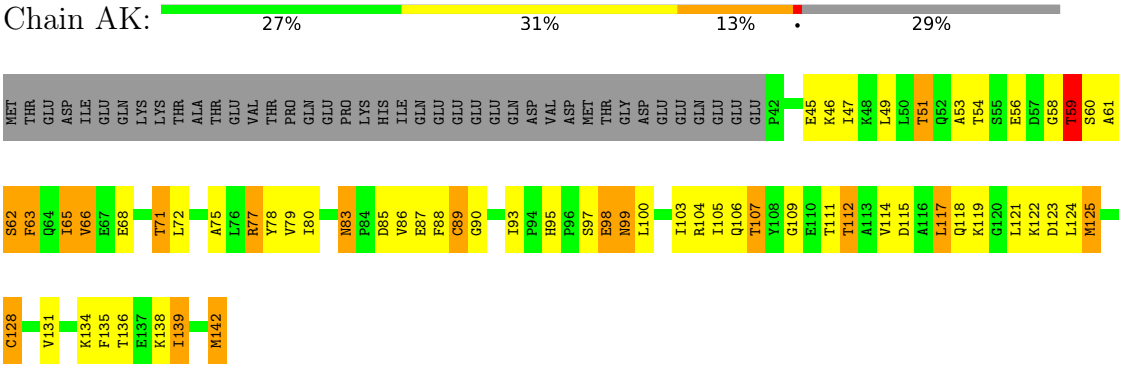
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain FJ:



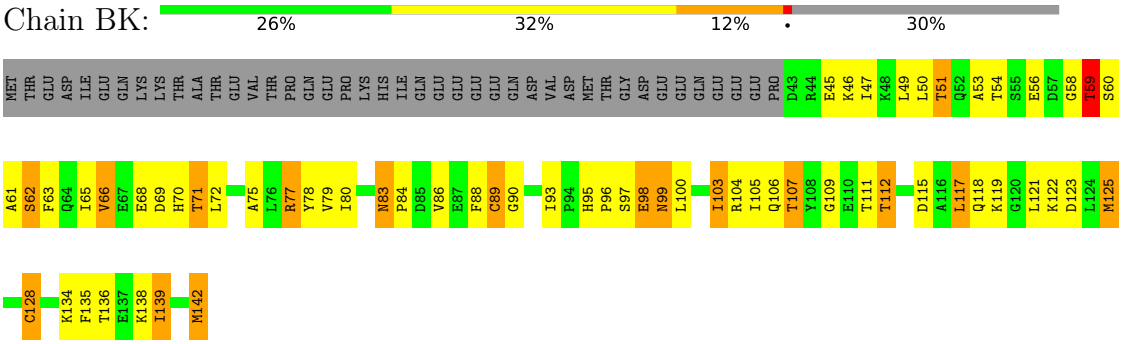
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain AK:



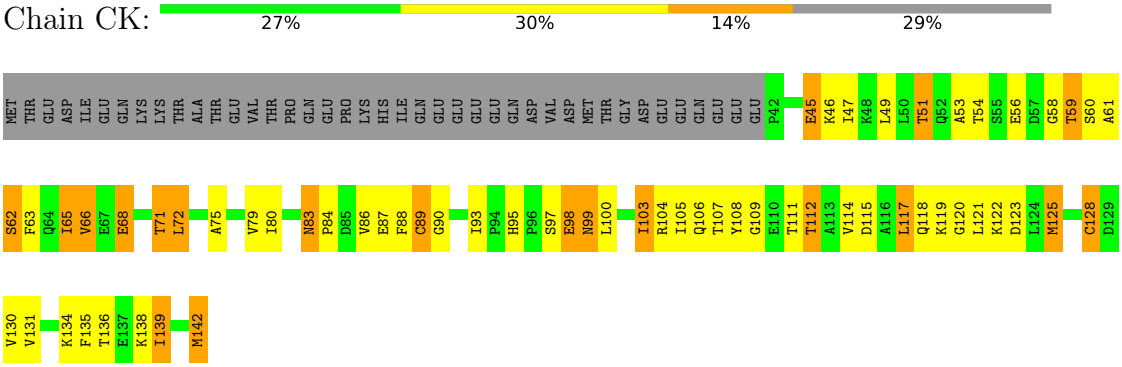
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain BK:



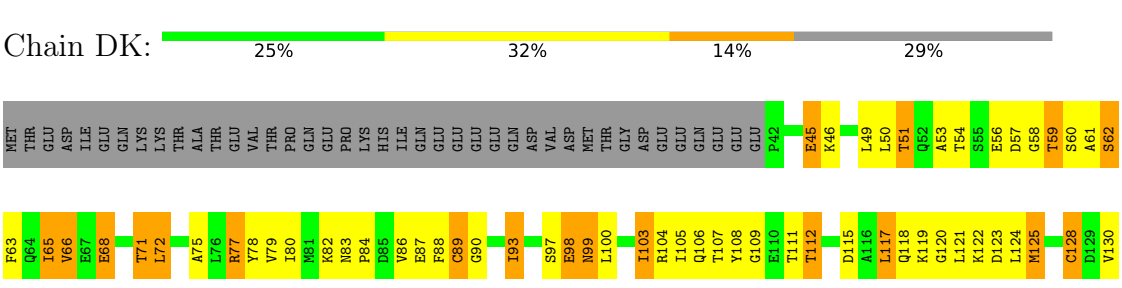
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain CK:



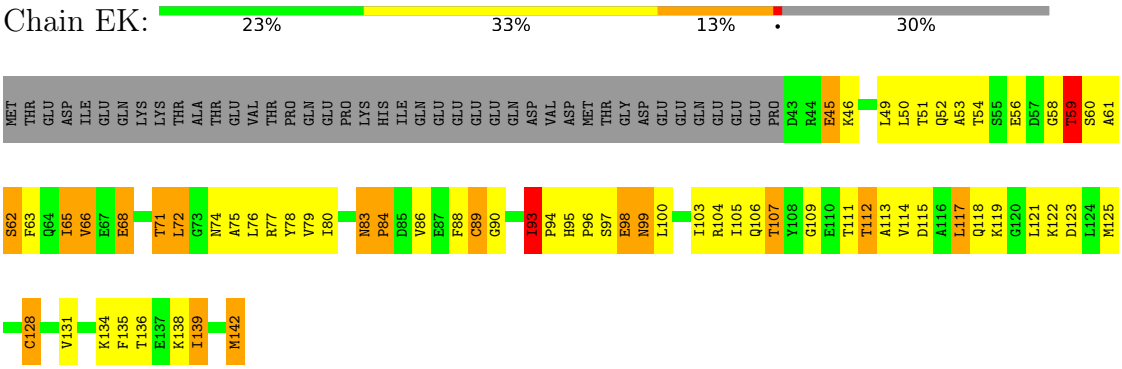
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain DK:



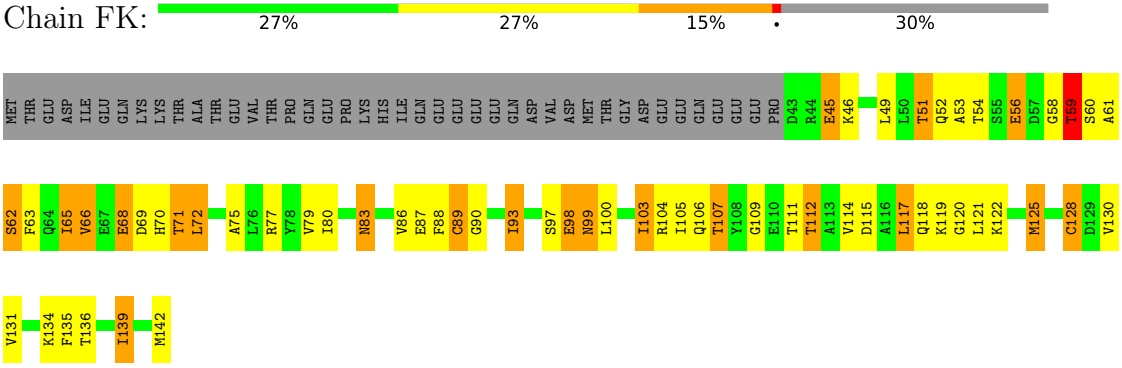
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain EK:



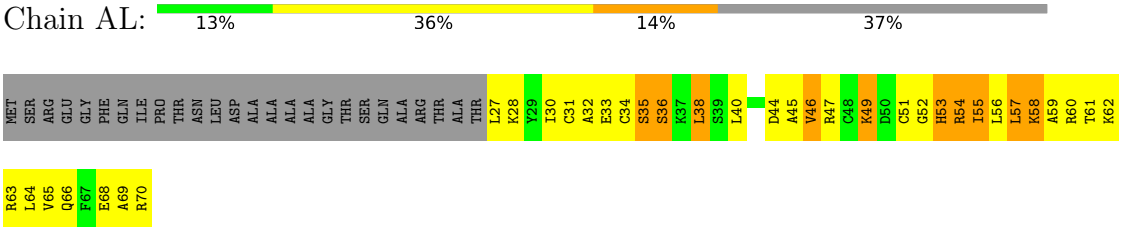
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain FK:



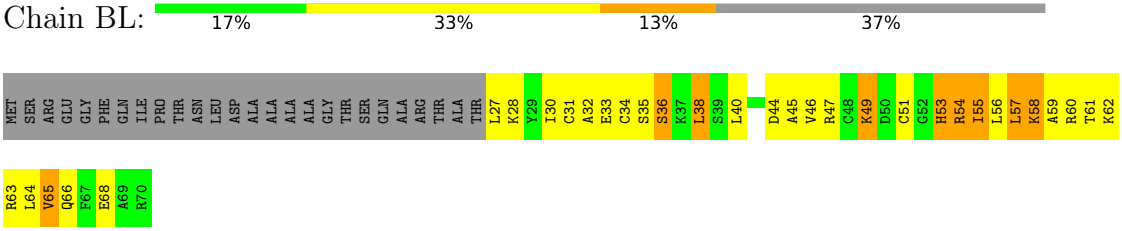
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain AL:



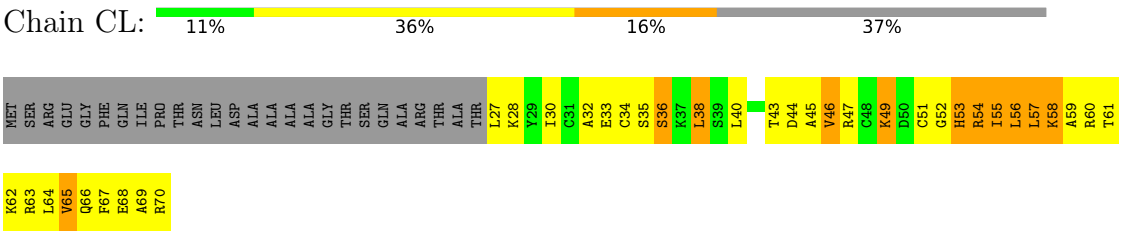
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain BL:



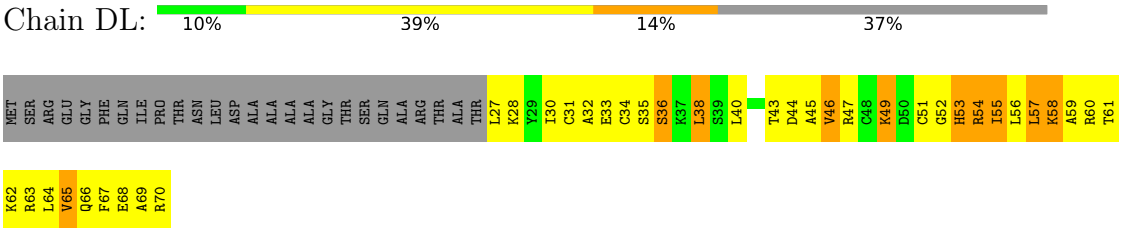
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain CL:



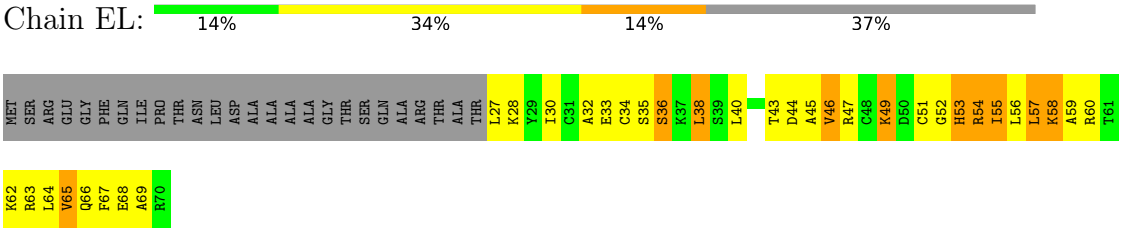
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain DL:



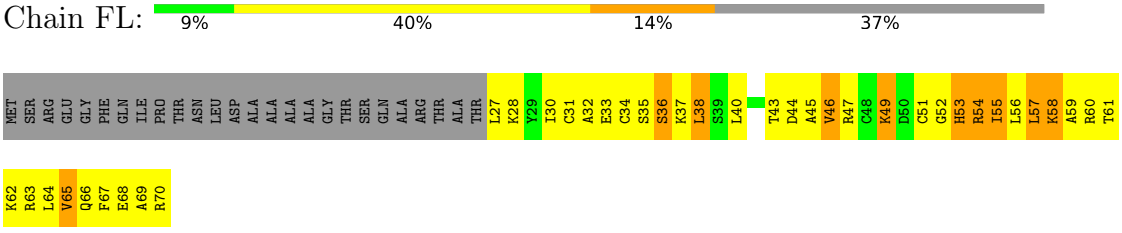
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain EL:



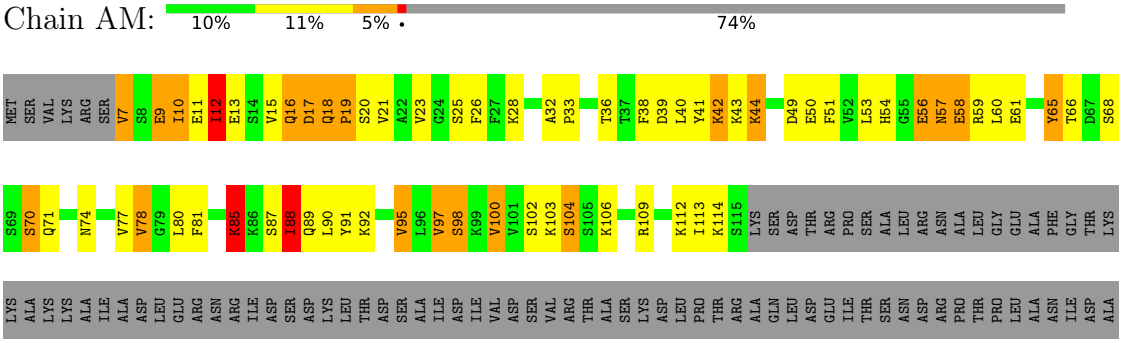
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

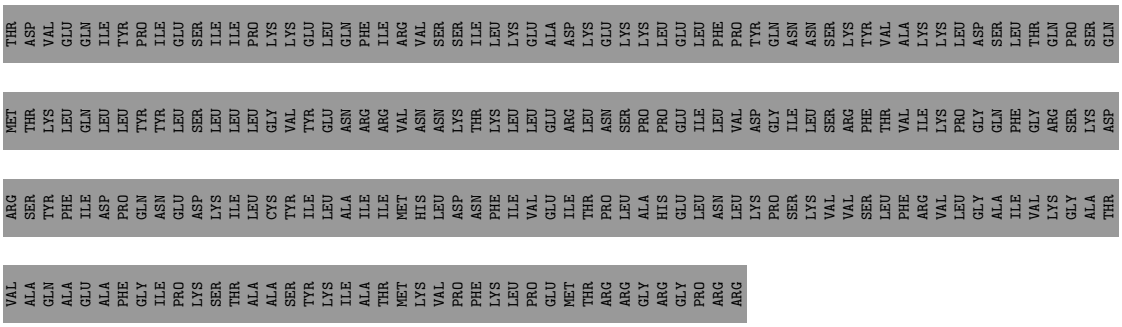
Chain FL:



• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

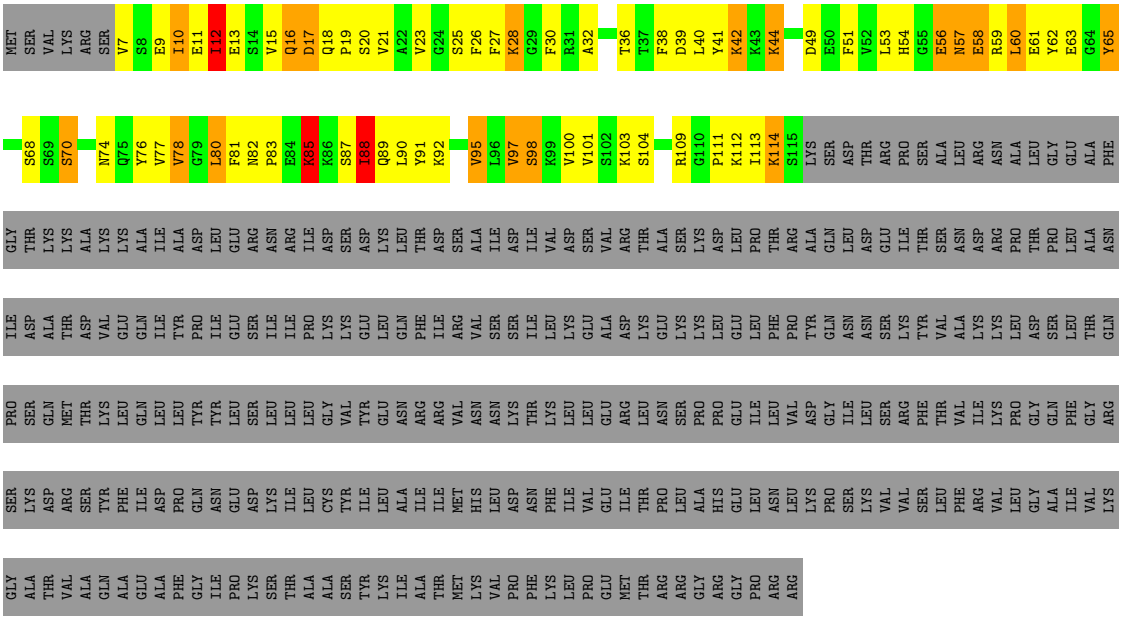
Chain AM:





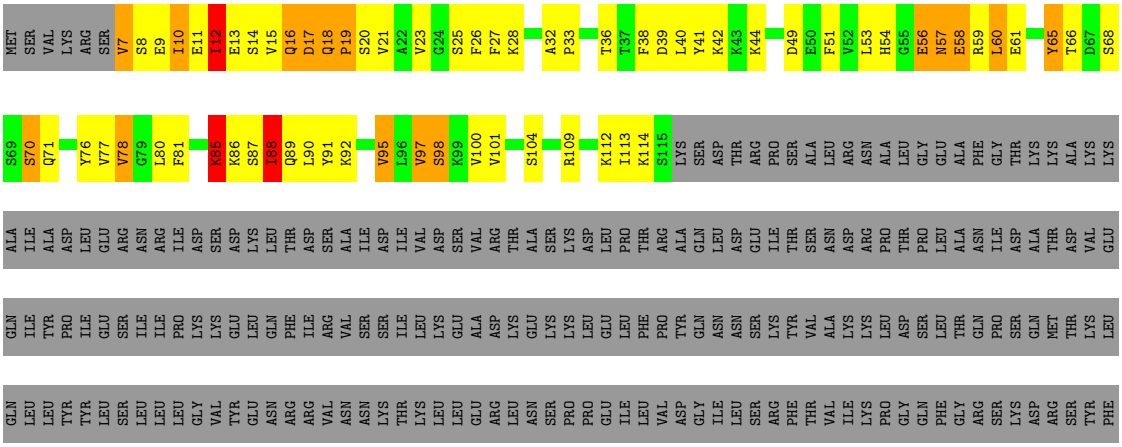
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

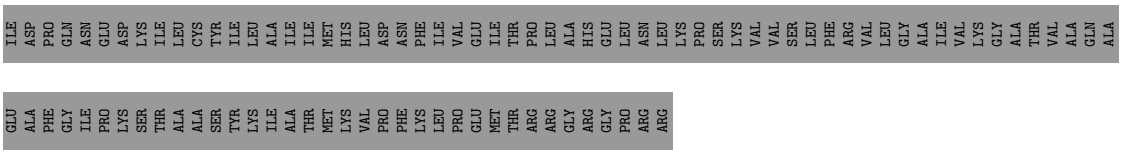
Chain BM:



• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

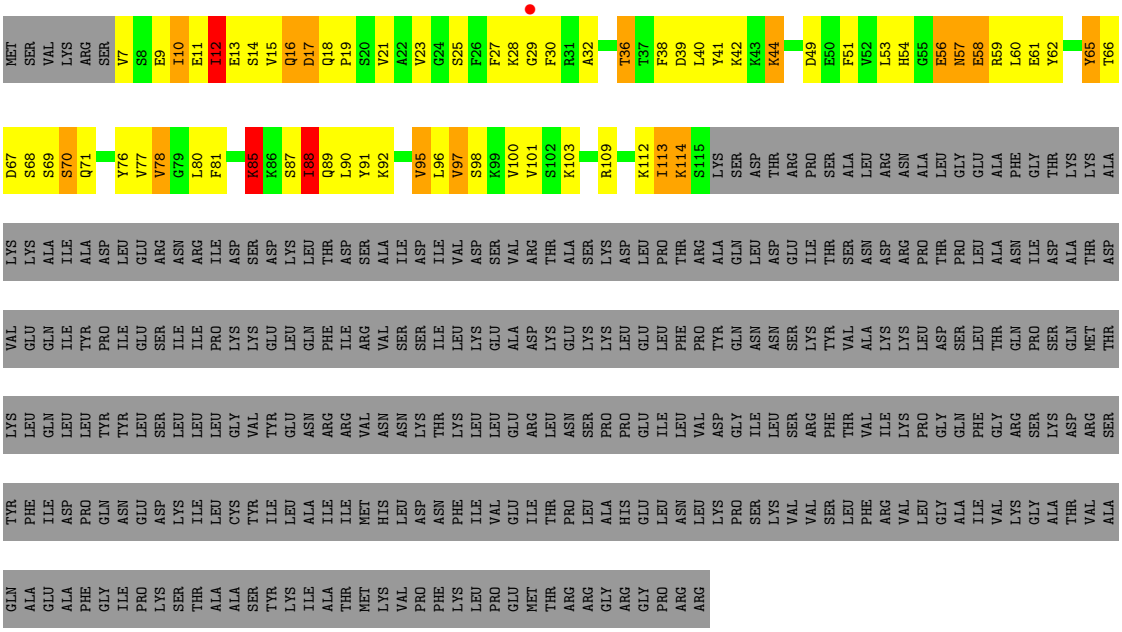
Chain CM:





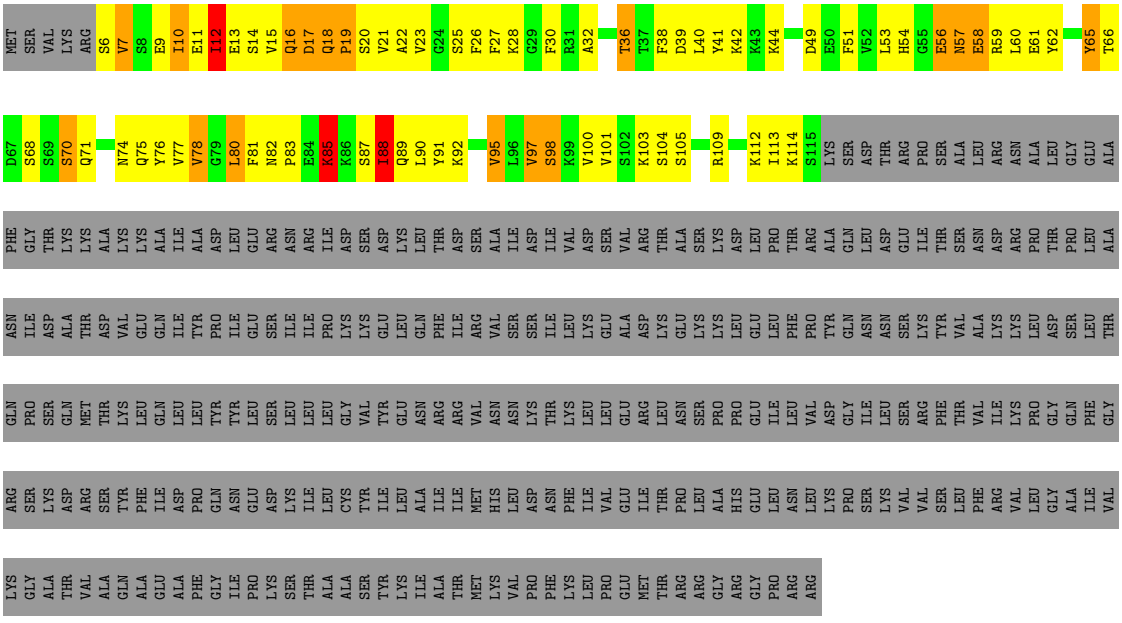
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain DM:



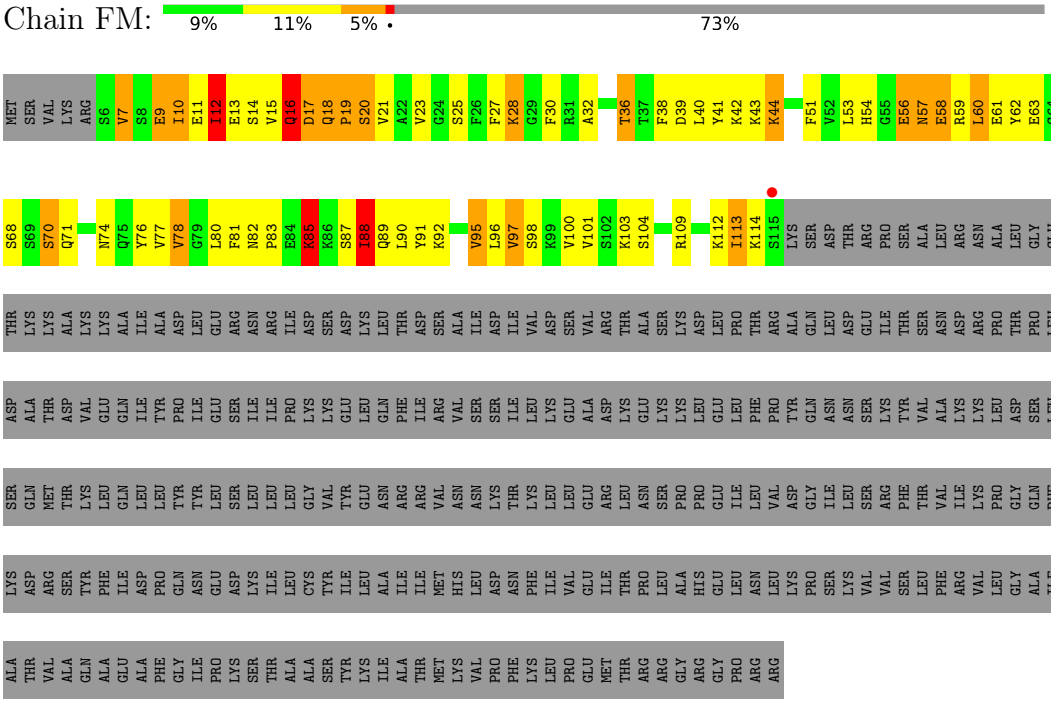
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain EM:



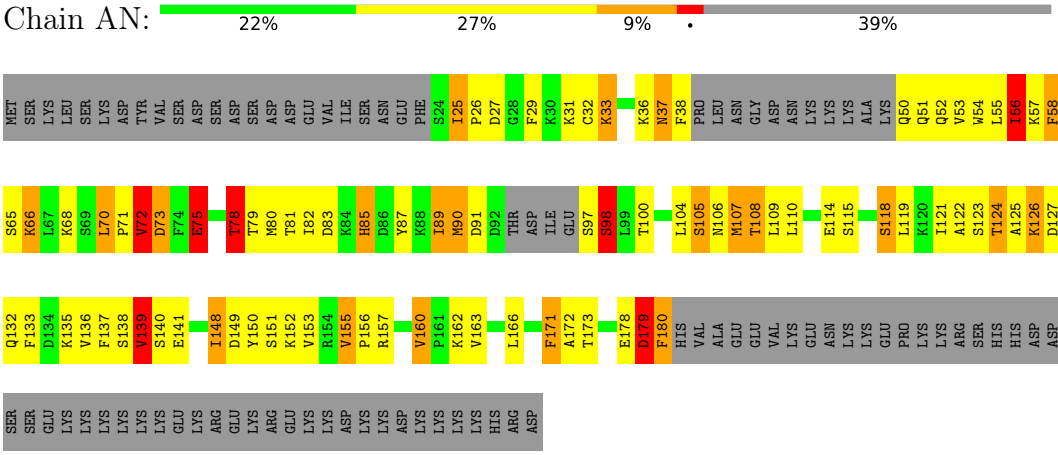
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain FM:



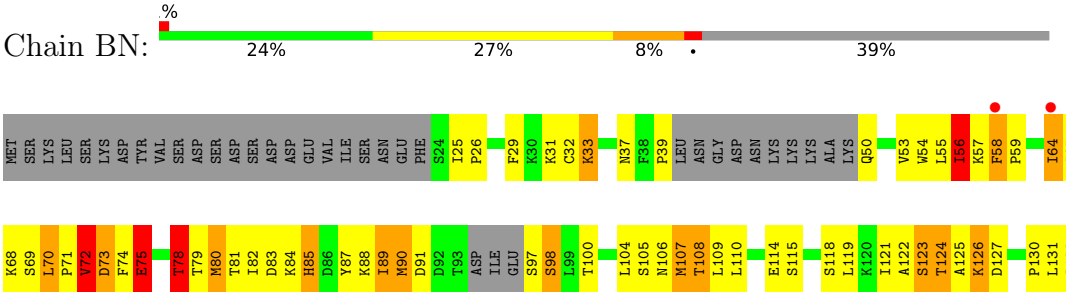
• Molecule 14: DNA-directed RNA polymerase I subunit RPA34

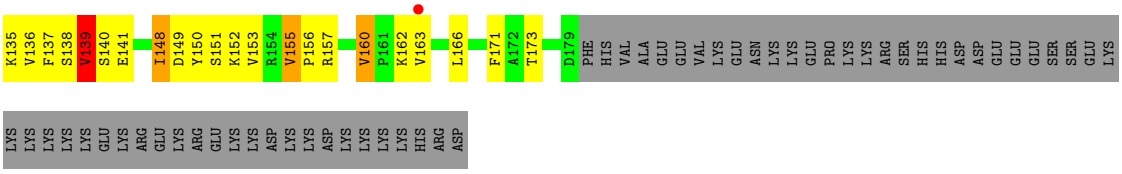
Chain AN:



• Molecule 14: DNA-directed RNA polymerase I subunit RPA34

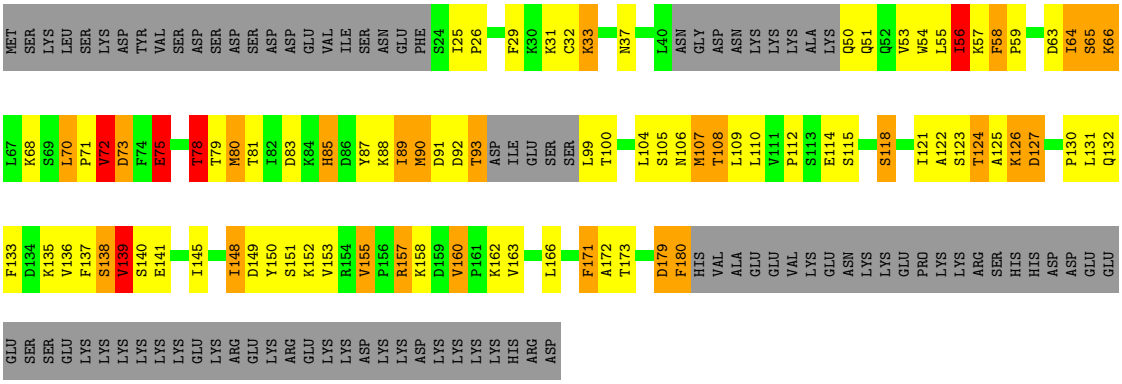
Chain BN:





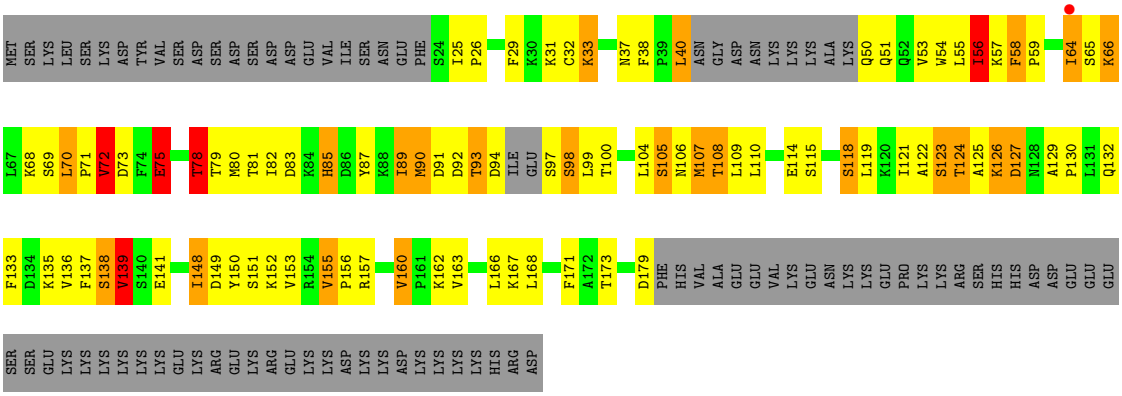
• Molecule 14: DNA-directed RNA polymerase I subunit RPA34

Chain CN:



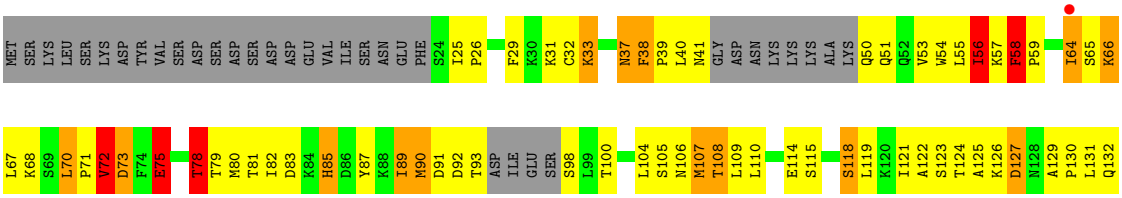
• Molecule 14: DNA-directed RNA polymerase I subunit RPA34

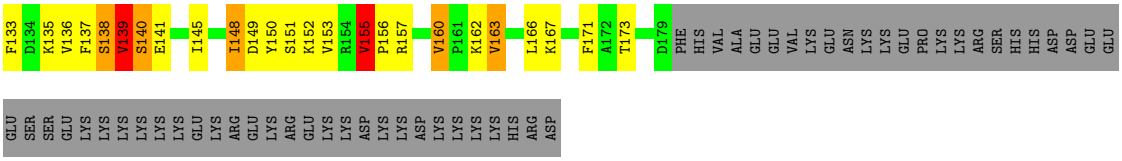
Chain DN:



• Molecule 14: DNA-directed RNA polymerase I subunit RPA34

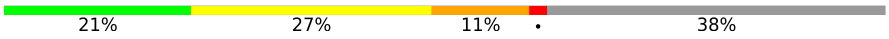
Chain EN:

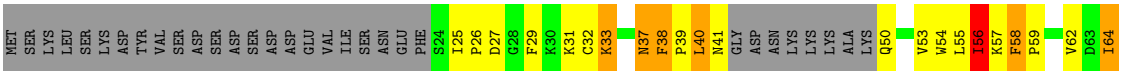


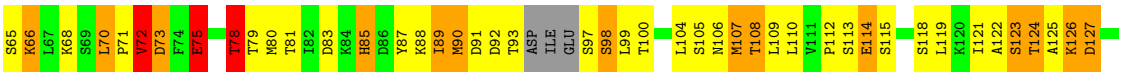


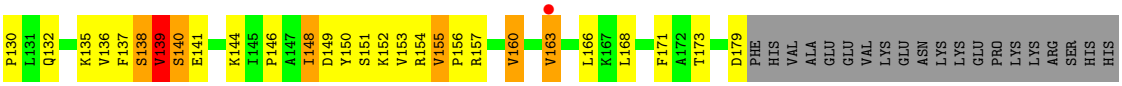
• Molecule 14: DNA-directed RNA polymerase I subunit RPA34

Chain FN:









4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	619.48Å 306.62Å 251.78Å 90.00° 97.50° 90.00°	Depositor
Resolution (Å)	49.69 – 5.50 49.69 – 5.50	Depositor EDS
% Data completeness (in resolution range)	99.1 (49.69-5.50) 98.9 (49.69-5.50)	Depositor EDS
R_{merge}	0.22	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.77 (at 5.39Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.196 , 0.235 0.204 , 0.243	Depositor DCC
R_{free} test set	1987 reflections (1.31%)	wwPDB-VP
Wilson B-factor (Å^2)	117.0	Xtriage
Anisotropy	0.698	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 235.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.34$, $< L^2 > = 0.17$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.89	EDS
Total number of atoms	204233	wwPDB-VP
Average B, all atoms (Å^2)	195.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.15% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: ZN

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	AA	0.78	3/11916 (0.0%)	1.03	28/16097 (0.2%)
1	BA	0.70	3/11752 (0.0%)	1.00	23/15875 (0.1%)
1	CA	0.85	5/11908 (0.0%)	1.05	30/16086 (0.2%)
1	DA	0.85	3/11910 (0.0%)	1.06	26/16090 (0.2%)
1	EA	0.88	9/11919 (0.1%)	1.07	35/16099 (0.2%)
1	FA	0.88	7/11923 (0.1%)	1.05	28/16106 (0.2%)
2	AB	0.74	2/9389 (0.0%)	1.03	38/12685 (0.3%)
2	BB	0.72	2/9377 (0.0%)	1.02	32/12671 (0.3%)
2	CB	0.88	7/9509 (0.1%)	1.08	45/12847 (0.4%)
2	DB	0.87	4/9474 (0.0%)	1.08	39/12802 (0.3%)
2	EB	0.87	5/9470 (0.1%)	1.08	40/12796 (0.3%)
2	FB	0.87	5/9475 (0.1%)	1.09	44/12802 (0.3%)
3	AC	0.78	0/2465	1.03	7/3342 (0.2%)
3	BC	0.69	0/2465	1.00	6/3342 (0.2%)
3	CC	0.87	2/2465 (0.1%)	1.07	6/3342 (0.2%)
3	DC	0.84	2/2465 (0.1%)	1.05	5/3342 (0.1%)
3	EC	0.93	3/2465 (0.1%)	1.07	8/3342 (0.2%)
3	FC	0.89	2/2465 (0.1%)	1.08	6/3342 (0.2%)
4	AD	0.76	0/465	1.09	2/630 (0.3%)
4	BD	0.65	0/465	1.06	2/630 (0.3%)
4	CD	0.87	0/465	1.10	2/630 (0.3%)
4	DD	0.82	0/465	1.11	2/630 (0.3%)
4	ED	0.86	0/465	1.07	2/630 (0.3%)
4	FD	0.85	0/465	1.11	2/630 (0.3%)
5	AE	0.66	0/1796	0.97	2/2416 (0.1%)
5	BE	0.61	0/1796	0.96	2/2416 (0.1%)
5	CE	0.74	0/1796	1.02	3/2416 (0.1%)
5	DE	0.78	0/1796	1.03	2/2416 (0.1%)
5	EE	0.74	0/1796	0.98	0/2416
5	FE	0.81	0/1796	1.01	3/2416 (0.1%)
6	AF	0.73	0/821	1.01	0/1106
6	BF	0.60	0/821	0.97	2/1106 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
6	CF	0.79	0/830	1.06	1/1118 (0.1%)
6	DF	0.81	1/830 (0.1%)	1.09	2/1118 (0.2%)
6	EF	0.79	1/830 (0.1%)	1.07	2/1118 (0.2%)
6	FF	0.83	0/830	1.07	0/1118
7	AG	0.81	0/1637	1.08	7/2226 (0.3%)
7	AO	1.05	0/417	1.08	1/562 (0.2%)
7	BG	0.70	0/1577	1.04	8/2145 (0.4%)
7	BO	1.08	0/408	1.05	1/550 (0.2%)
7	CG	0.91	0/1637	1.09	8/2226 (0.4%)
7	CO	1.18	1/402 (0.2%)	1.37	3/542 (0.6%)
7	DG	0.89	0/1637	1.10	5/2226 (0.2%)
7	DO	1.14	0/417	1.34	5/562 (0.9%)
7	EG	0.87	1/1637 (0.1%)	1.07	8/2226 (0.4%)
7	EO	1.06	0/417	1.19	1/562 (0.2%)
7	FG	0.94	2/1637 (0.1%)	1.12	10/2226 (0.4%)
7	FO	1.07	1/417 (0.2%)	1.26	6/562 (1.1%)
8	AH	0.83	0/1081	1.01	2/1463 (0.1%)
8	BH	0.64	1/1070 (0.1%)	0.90	2/1449 (0.1%)
8	CH	0.86	0/1070	1.03	7/1449 (0.5%)
8	DH	0.88	2/1093 (0.2%)	1.00	2/1480 (0.1%)
8	EH	0.90	4/1093 (0.4%)	1.06	5/1480 (0.3%)
8	FH	1.06	3/1093 (0.3%)	1.12	8/1480 (0.5%)
9	AI	0.91	1/956 (0.1%)	1.01	3/1288 (0.2%)
9	BI	0.74	0/721	0.93	2/969 (0.2%)
9	CI	0.92	1/956 (0.1%)	1.01	3/1288 (0.2%)
9	DI	0.92	0/956	1.01	3/1288 (0.2%)
9	EI	1.01	1/910 (0.1%)	1.08	3/1223 (0.2%)
9	FI	1.02	3/956 (0.3%)	1.03	2/1288 (0.2%)
10	AJ	0.70	0/567	0.99	0/761
10	BJ	0.67	0/578	1.00	2/775 (0.3%)
10	CJ	0.85	0/567	1.03	3/761 (0.4%)
10	DJ	0.76	0/578	0.98	1/775 (0.1%)
10	EJ	0.89	1/567 (0.2%)	1.01	0/761
10	FJ	0.83	0/567	1.01	0/761
11	AK	0.80	0/804	1.08	4/1083 (0.4%)
11	BK	0.65	0/796	1.02	2/1072 (0.2%)
11	CK	0.88	0/804	1.07	4/1083 (0.4%)
11	DK	0.82	0/804	1.06	2/1083 (0.2%)
11	EK	0.82	0/796	1.07	4/1072 (0.4%)
11	FK	0.80	0/796	1.05	4/1072 (0.4%)
12	AL	0.81	0/354	0.97	1/468 (0.2%)
12	BL	0.75	0/354	0.94	0/468
12	CL	0.86	0/354	1.03	2/468 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
12	DL	0.82	0/354	1.00	1/468 (0.2%)
12	EL	0.89	0/354	1.06	1/468 (0.2%)
12	FL	0.82	0/354	0.98	1/468 (0.2%)
13	AM	0.82	0/879	1.01	0/1180
13	BM	0.81	0/879	1.01	1/1180 (0.1%)
13	CM	0.91	0/879	1.04	2/1180 (0.2%)
13	DM	0.88	0/879	1.03	1/1180 (0.1%)
13	EM	0.87	0/885	1.07	1/1188 (0.1%)
13	FM	0.89	0/885	1.04	2/1188 (0.2%)
14	AN	0.90	2/1148 (0.2%)	1.06	1/1546 (0.1%)
14	BN	0.88	2/1151 (0.2%)	1.06	2/1552 (0.1%)
14	CN	0.96	2/1159 (0.2%)	1.12	2/1563 (0.1%)
14	DN	0.95	1/1167 (0.1%)	1.19	7/1574 (0.4%)
14	EN	0.99	2/1161 (0.2%)	1.17	9/1566 (0.6%)
14	FN	0.99	2/1167 (0.2%)	1.20	6/1574 (0.4%)
All	All	0.83	99/208122 (0.0%)	1.05	648/281066 (0.2%)

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	EA	0	1

All (99) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	FH	76	THR	CA-C	12.85	1.60	1.53
1	EA	75	HIS	CD2-NE2	11.71	1.50	1.37
8	FH	76	THR	N-CA	11.10	1.53	1.46
1	FA	1013	THR	CA-CB	10.15	1.65	1.52
1	EA	75	HIS	CG-CD2	9.99	1.46	1.35
1	DA	1013	THR	CA-CB	8.60	1.63	1.52
14	FN	100	THR	CA-CB	8.06	1.66	1.53
2	CB	813	LEU	CA-C	7.77	1.60	1.53
1	EA	1013	THR	CA-CB	7.57	1.62	1.52
14	EN	100	THR	CA-C	7.55	1.60	1.53
1	CA	1013	THR	CA-CB	7.50	1.62	1.52
1	EA	1203	ASN	CA-C	7.42	1.61	1.52
2	AB	1040	VAL	CA-CB	7.30	1.63	1.54
14	FN	100	THR	CA-C	7.11	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	EN	100	THR	CA-CB	6.91	1.64	1.53
2	AB	1040	VAL	CA-C	6.90	1.61	1.52
14	BN	100	THR	CA-C	6.82	1.59	1.52
2	FB	813	LEU	CA-C	6.79	1.59	1.53
2	CB	1040	VAL	CA-C	6.73	1.60	1.52
2	DB	1040	VAL	CA-CB	6.66	1.63	1.54
3	CC	83	VAL	CA-CB	-6.58	1.45	1.54
8	FH	76	THR	CA-CB	6.57	1.63	1.53
8	EH	76	THR	CA-CB	6.53	1.64	1.53
1	EA	75	HIS	CA-CB	-6.52	1.37	1.53
14	DN	100	THR	CA-C	6.52	1.58	1.52
8	DH	76	THR	CA-C	6.51	1.61	1.52
9	AI	123	THR	CA-CB	6.49	1.63	1.53
1	AA	1013	THR	CA-CB	6.43	1.60	1.52
8	EH	118	PHE	CA-C	-6.42	1.46	1.53
1	BA	1013	THR	CA-CB	6.36	1.60	1.52
2	BB	1040	VAL	CA-CB	6.33	1.62	1.54
10	EJ	13	VAL	CA-CB	-6.32	1.48	1.54
1	EA	75	HIS	CG-ND1	-6.30	1.31	1.38
2	BB	1040	VAL	CA-C	6.28	1.60	1.52
9	EI	123	THR	CA-CB	6.24	1.64	1.53
2	CB	1040	VAL	CA-CB	6.20	1.62	1.54
14	CN	100	THR	CA-CB	6.18	1.63	1.53
3	CC	101	ILE	CA-CB	-6.18	1.46	1.54
3	EC	83	VAL	CA-CB	-6.17	1.46	1.54
1	CA	1203	ASN	CA-C	6.10	1.59	1.52
2	EB	1028	VAL	CA-C	-6.05	1.45	1.52
14	AN	100	THR	CA-C	5.99	1.59	1.52
2	FB	1028	VAL	CA-C	-5.98	1.46	1.52
1	CA	1193	VAL	CA-CB	-5.98	1.48	1.55
2	DB	1040	VAL	CA-C	5.96	1.59	1.52
14	CN	100	THR	CA-C	5.96	1.59	1.52
8	EH	76	THR	N-CA	5.94	1.53	1.46
3	EC	83	VAL	CA-C	-5.85	1.45	1.52
1	FA	1562	ILE	CA-CB	-5.85	1.47	1.54
1	FA	1348	VAL	CA-CB	5.84	1.61	1.54
1	BA	1012	LYS	CA-C	5.83	1.60	1.52
2	CB	10	GLN	CA-CB	5.80	1.63	1.53
7	FG	171	ASN	CA-C	5.78	1.60	1.52
3	EC	101	ILE	CA-CB	-5.71	1.46	1.54
1	FA	462	LYS	N-CA	5.69	1.53	1.46
2	CB	10	GLN	CB-CG	5.65	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	FB	292	ILE	CA-CB	-5.62	1.48	1.55
1	DA	1201	THR	CA-CB	5.61	1.62	1.53
2	FB	1040	VAL	CA-CB	5.59	1.61	1.54
8	DH	76	THR	CA-CB	5.59	1.62	1.53
3	DC	101	ILE	CA-CB	-5.58	1.46	1.54
2	CB	10	GLN	N-CA	5.56	1.53	1.46
1	BA	1339	THR	CA-C	5.56	1.58	1.52
1	DA	1292	ILE	CA-CB	-5.55	1.47	1.54
6	EF	130	ILE	CA-CB	-5.53	1.47	1.54
2	DB	10	GLN	CA-C	5.53	1.60	1.52
2	EB	1028	VAL	CA-CB	-5.49	1.47	1.55
7	EG	216	HIS	CA-C	5.48	1.59	1.52
2	CB	10	GLN	CA-C	5.47	1.60	1.52
7	FG	173	VAL	CA-CB	5.38	1.60	1.54
8	BH	4	THR	CA-CB	5.38	1.59	1.53
14	BN	100	THR	CA-CB	5.36	1.62	1.54
1	AA	1014	SER	CA-C	5.34	1.59	1.53
2	EB	1040	VAL	CA-C	5.33	1.59	1.52
1	CA	363	PRO	CA-C	-5.33	1.49	1.51
1	AA	1339	THR	CA-C	5.24	1.58	1.52
2	EB	1143	THR	CA-CB	5.24	1.61	1.53
1	EA	1201	THR	CA-CB	5.22	1.61	1.53
8	EH	77	ARG	N-CA	5.18	1.52	1.46
6	DF	74	ILE	CA-C	-5.18	1.49	1.52
2	EB	1040	VAL	N-CA	5.18	1.52	1.46
2	DB	218	ILE	CA-CB	-5.17	1.47	1.54
9	CI	99	LEU	CA-C	5.17	1.58	1.52
1	FA	1339	THR	CA-C	5.15	1.58	1.52
7	FO	303	ASP	CA-C	5.13	1.59	1.52
7	CO	278	ILE	CA-CB	-5.11	1.48	1.54
9	FI	123	THR	CA-CB	5.11	1.60	1.53
1	EA	1330	VAL	CA-CB	5.10	1.59	1.54
9	FI	125	ASN	CB-CG	5.10	1.64	1.52
1	FA	1013	THR	N-CA	5.09	1.53	1.46
1	CA	626	ALA	CA-CB	-5.09	1.45	1.53
1	EA	1562	ILE	CA-CB	-5.07	1.48	1.54
1	FA	1203	ASN	CA-C	5.06	1.58	1.52
9	FI	99	LEU	N-CA	5.04	1.52	1.46
2	FB	12	ARG	CA-C	5.03	1.63	1.52
3	FC	70	ILE	CA-CB	-5.03	1.48	1.54
3	DC	83	VAL	CA-CB	-5.03	1.47	1.54
3	FC	83	VAL	CA-CB	-5.02	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	AN	98	SER	CA-C	5.00	1.58	1.52

All (648) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	FN	38	PHE	CA-C-N	12.24	135.15	119.84
14	FN	38	PHE	C-N-CA	12.24	135.15	119.84
8	FH	76	THR	N-CA-C	10.57	117.45	108.78
2	EB	571	ALA	CA-C-N	10.46	130.56	119.89
2	EB	571	ALA	C-N-CA	10.46	130.56	119.89
2	DB	571	ALA	CA-C-N	10.28	130.38	119.89
2	DB	571	ALA	C-N-CA	10.28	130.38	119.89
2	FB	571	ALA	CA-C-N	9.67	129.75	119.89
2	FB	571	ALA	C-N-CA	9.67	129.75	119.89
2	BB	571	ALA	CA-C-N	9.63	129.71	119.89
2	BB	571	ALA	C-N-CA	9.63	129.71	119.89
2	CB	571	ALA	CA-C-N	9.41	129.49	119.89
2	CB	571	ALA	C-N-CA	9.41	129.49	119.89
2	AB	571	ALA	CA-C-N	9.21	129.28	119.89
2	AB	571	ALA	C-N-CA	9.21	129.28	119.89
2	AB	712	SER	CA-C-N	-9.07	110.31	119.56
2	AB	712	SER	C-N-CA	-9.07	110.31	119.56
8	FH	22	LYS	N-CA-C	-8.98	104.39	114.62
2	FB	1110	ILE	N-CA-C	-8.97	104.59	113.20
14	DN	93	THR	N-CA-C	-8.96	101.30	113.30
1	FA	1636	SER	CA-C-N	8.40	127.98	119.24
1	FA	1636	SER	C-N-CA	8.40	127.98	119.24
1	DA	363	PRO	O-C-N	8.36	125.16	121.31
1	EA	363	PRO	CA-C-N	8.34	128.40	119.90
1	EA	363	PRO	C-N-CA	8.34	128.40	119.90
1	FA	1442	VAL	N-CA-C	-8.34	105.04	111.62
2	CB	712	SER	CA-C-N	-8.21	111.19	119.56
2	CB	712	SER	C-N-CA	-8.21	111.19	119.56
1	CA	363	PRO	CA-C-N	8.19	128.26	119.90
1	CA	363	PRO	C-N-CA	8.19	128.26	119.90
2	FB	832	TRP	CA-C-N	8.15	130.03	119.84
2	FB	832	TRP	C-N-CA	8.15	130.03	119.84
1	EA	75	HIS	N-CA-CB	8.15	125.89	110.82
1	CA	363	PRO	O-C-N	8.13	125.05	121.31
1	EA	1636	SER	CA-C-N	8.08	127.64	119.24
1	EA	1636	SER	C-N-CA	8.08	127.64	119.24
1	DA	363	PRO	CA-C-N	8.07	128.14	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	DA	363	PRO	C-N-CA	8.07	128.14	119.90
2	FB	712	SER	CA-C-N	-8.06	111.34	119.56
2	FB	712	SER	C-N-CA	-8.06	111.34	119.56
2	EB	712	SER	CA-C-N	-8.01	111.39	119.56
2	EB	712	SER	C-N-CA	-8.01	111.39	119.56
2	EB	962	MET	N-CA-C	-7.99	102.27	110.97
7	CO	290	GLU	N-CA-C	-7.93	102.57	111.14
7	EO	274	SER	N-CA-C	-7.86	103.67	113.18
2	FB	728	THR	CB-CA-C	-7.82	102.52	110.65
5	CE	52	ARG	CB-CG-CD	7.75	129.13	111.30
2	DB	712	SER	CA-C-N	-7.73	111.67	119.56
2	DB	712	SER	C-N-CA	-7.73	111.67	119.56
2	DB	832	TRP	CA-C-N	7.66	129.42	119.84
2	DB	832	TRP	C-N-CA	7.66	129.42	119.84
2	BB	1110	ILE	N-CA-C	-7.66	105.85	113.20
2	CB	1110	ILE	N-CA-C	-7.65	105.86	113.20
2	EB	704	THR	CA-C-N	7.62	127.39	119.76
2	EB	704	THR	C-N-CA	7.62	127.39	119.76
2	FB	704	THR	CA-C-N	7.59	127.35	119.76
2	FB	704	THR	C-N-CA	7.59	127.35	119.76
2	DB	962	MET	N-CA-C	-7.54	102.75	110.97
2	BB	712	SER	CA-C-N	-7.53	111.88	119.56
2	BB	712	SER	C-N-CA	-7.53	111.88	119.56
1	FA	1128	ASN	CA-C-N	7.47	127.18	119.56
1	FA	1128	ASN	C-N-CA	7.47	127.18	119.56
2	AB	832	TRP	CA-C-N	7.41	129.10	119.84
2	AB	832	TRP	C-N-CA	7.41	129.10	119.84
2	EB	832	TRP	CA-C-N	7.36	129.04	119.84
2	EB	832	TRP	C-N-CA	7.36	129.04	119.84
7	FG	50	ALA	CA-C-N	7.35	127.36	119.28
7	FG	50	ALA	C-N-CA	7.35	127.36	119.28
5	DE	52	ARG	CB-CG-CD	7.34	128.19	111.30
7	FG	11	ARG	CB-CG-CD	7.34	128.18	111.30
12	EL	52	GLY	N-CA-C	-7.33	104.70	115.63
9	BI	19	ASN	CA-C-N	7.31	128.98	119.84
9	BI	19	ASN	C-N-CA	7.31	128.98	119.84
8	CH	22	LYS	N-CA-C	-7.31	106.29	114.62
2	FB	962	MET	N-CA-C	-7.31	103.00	110.97
2	BB	832	TRP	CA-C-N	7.28	128.94	119.84
2	BB	832	TRP	C-N-CA	7.28	128.94	119.84
2	CB	704	THR	CA-C-N	7.27	127.03	119.76
2	CB	704	THR	C-N-CA	7.27	127.03	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	EA	498	PRO	CA-C-N	7.24	126.77	119.24
1	EA	498	PRO	C-N-CA	7.24	126.77	119.24
7	AG	50	ALA	CA-C-N	7.23	127.23	119.28
7	AG	50	ALA	C-N-CA	7.23	127.23	119.28
2	CB	775	VAL	CB-CA-C	-7.23	105.13	113.22
1	BA	1128	ASN	CA-C-N	7.19	126.90	119.56
1	BA	1128	ASN	C-N-CA	7.19	126.90	119.56
2	CB	832	TRP	CA-C-N	7.17	128.81	119.84
2	CB	832	TRP	C-N-CA	7.17	128.81	119.84
8	EH	22	LYS	N-CA-C	-7.17	105.46	114.56
3	FC	74	GLU	CA-C-N	-7.15	117.44	122.59
3	FC	74	GLU	C-N-CA	-7.15	117.44	122.59
2	BB	704	THR	CA-C-N	7.12	126.88	119.76
2	BB	704	THR	C-N-CA	7.12	126.88	119.76
1	AA	1442	VAL	N-CA-C	-7.11	106.00	111.62
2	DB	704	THR	CA-C-N	7.08	126.84	119.76
2	DB	704	THR	C-N-CA	7.08	126.84	119.76
14	EN	56	ILE	CB-CA-C	-7.07	101.43	111.40
1	FA	1052	GLY	N-CA-C	-7.07	105.56	115.32
3	BC	283	GLU	N-CA-C	7.06	119.58	111.11
9	AI	19	ASN	CA-C-N	7.04	128.64	119.84
9	AI	19	ASN	C-N-CA	7.04	128.64	119.84
1	BA	1636	SER	CA-C-N	7.04	126.56	119.24
1	BA	1636	SER	C-N-CA	7.04	126.56	119.24
1	AA	498	PRO	CA-C-N	7.04	126.56	119.24
1	AA	498	PRO	C-N-CA	7.04	126.56	119.24
12	AL	52	GLY	N-CA-C	-7.04	105.37	115.64
1	CA	1636	SER	CA-C-N	7.03	126.55	119.24
1	CA	1636	SER	C-N-CA	7.03	126.55	119.24
2	DB	836	TRP	N-CA-C	-7.02	104.75	113.38
1	DA	1052	GLY	N-CA-C	-6.97	105.61	115.30
1	EA	363	PRO	O-C-N	6.97	124.52	121.31
9	DI	19	ASN	CA-C-N	6.93	128.51	119.84
9	DI	19	ASN	C-N-CA	6.93	128.51	119.84
3	CC	283	GLU	N-CA-C	6.90	119.39	111.11
1	DA	1636	SER	CA-C-N	6.90	126.42	119.24
1	DA	1636	SER	C-N-CA	6.90	126.42	119.24
1	AA	716	PRO	O-C-N	6.90	124.48	121.31
9	FI	19	ASN	CA-C-N	6.89	128.45	119.84
9	FI	19	ASN	C-N-CA	6.89	128.45	119.84
1	CA	1081	ASN	CA-C-N	6.89	126.13	118.97
1	CA	1081	ASN	C-N-CA	6.89	126.13	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	CG	33	GLY	N-CA-C	-6.87	106.28	115.21
2	FB	1058	GLN	CA-C-N	6.87	126.89	119.89
2	FB	1058	GLN	C-N-CA	6.87	126.89	119.89
12	DL	52	GLY	N-CA-C	-6.86	105.62	115.64
7	EG	11	ARG	CB-CG-CD	6.86	127.07	111.30
1	BA	731	ILE	CB-CA-C	-6.85	103.20	111.97
1	EA	75	HIS	CG-ND1-CE1	6.83	120.91	109.30
1	CA	731	ILE	CB-CA-C	-6.83	103.23	111.97
7	BG	50	ALA	CA-C-N	6.80	126.77	119.28
7	BG	50	ALA	C-N-CA	6.80	126.77	119.28
2	FB	836	TRP	N-CA-C	-6.80	105.01	113.38
2	EB	944	GLN	CA-C-N	6.80	126.77	119.76
2	EB	944	GLN	C-N-CA	6.80	126.77	119.76
12	FL	52	GLY	N-CA-C	-6.79	105.73	115.64
1	EA	1442	VAL	N-CA-C	-6.78	106.26	111.62
2	AB	704	THR	CA-C-N	6.78	126.53	119.76
2	AB	704	THR	C-N-CA	6.78	126.53	119.76
2	AB	944	GLN	CA-C-N	6.77	126.74	119.76
2	AB	944	GLN	C-N-CA	6.77	126.74	119.76
4	FD	18	THR	CA-C-N	6.77	126.75	119.78
4	FD	18	THR	C-N-CA	6.77	126.75	119.78
7	CG	50	ALA	CA-C-N	6.76	126.72	119.28
7	CG	50	ALA	C-N-CA	6.76	126.72	119.28
7	DG	61	VAL	CB-CA-C	-6.76	103.32	111.97
2	AB	1110	ILE	N-CA-C	-6.72	106.75	113.20
2	CB	1050	GLY	CA-C-N	6.72	127.12	119.93
2	CB	1050	GLY	C-N-CA	6.72	127.12	119.93
1	EA	75	HIS	CG-CD2-NE2	-6.70	100.50	107.20
1	AA	1636	SER	CA-C-N	6.69	126.20	119.24
1	AA	1636	SER	C-N-CA	6.69	126.20	119.24
2	DB	775	VAL	CB-CA-C	-6.69	105.73	113.22
2	EB	728	THR	CB-CA-C	-6.69	103.70	110.65
11	AK	83	ASN	CA-C-N	6.68	128.19	119.84
11	AK	83	ASN	C-N-CA	6.68	128.19	119.84
1	DA	1128	ASN	CA-C-N	6.68	126.37	119.56
1	DA	1128	ASN	C-N-CA	6.68	126.37	119.56
4	ED	18	THR	CA-C-N	6.68	126.66	119.78
4	ED	18	THR	C-N-CA	6.68	126.66	119.78
2	EB	1110	ILE	N-CA-C	-6.67	106.79	113.20
1	FA	498	PRO	CA-C-N	6.67	125.91	118.97
1	FA	498	PRO	C-N-CA	6.67	125.91	118.97
2	FB	944	GLN	CA-C-N	6.66	126.62	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	FB	944	GLN	C-N-CA	6.66	126.62	119.76
7	BG	61	VAL	CB-CA-C	-6.65	103.37	111.88
2	AB	292	ILE	CB-CA-C	-6.65	105.12	111.44
1	BA	498	PRO	CA-C-N	6.64	126.15	119.24
1	BA	498	PRO	C-N-CA	6.64	126.15	119.24
1	DA	1231	ALA	N-CA-C	-6.64	105.18	113.28
1	EA	75	HIS	ND1-CE1-NE2	-6.64	101.76	108.40
1	FA	363	PRO	CA-C-N	6.63	126.66	119.90
1	FA	363	PRO	C-N-CA	6.63	126.66	119.90
9	CI	19	ASN	CA-C-N	6.62	128.12	119.84
9	CI	19	ASN	C-N-CA	6.62	128.12	119.84
3	AC	74	GLU	CA-C-N	-6.62	117.83	122.59
3	AC	74	GLU	C-N-CA	-6.62	117.83	122.59
4	DD	18	THR	CA-C-N	6.60	126.58	119.78
4	DD	18	THR	C-N-CA	6.60	126.58	119.78
2	BB	836	TRP	N-CA-C	-6.59	105.27	113.38
14	AN	56	ILE	CB-CA-C	-6.59	100.49	111.29
1	BA	363	PRO	CA-C-N	6.58	126.62	119.90
1	BA	363	PRO	C-N-CA	6.58	126.62	119.90
7	AO	286	ILE	CB-CA-C	-6.58	103.30	111.92
2	CB	106	LYS	CA-C-N	6.56	127.59	119.98
2	CB	106	LYS	C-N-CA	6.56	127.59	119.98
7	FO	274	SER	N-CA-C	6.54	119.38	111.40
14	CN	56	ILE	CB-CA-C	-6.54	100.57	111.29
2	CB	728	THR	CB-CA-C	-6.54	103.85	110.65
1	DA	974	THR	CB-CA-C	-6.52	102.26	111.85
2	EB	92	GLY	N-CA-C	6.52	118.15	111.56
9	EI	19	ASN	CA-C-N	6.52	127.99	119.84
9	EI	19	ASN	C-N-CA	6.52	127.99	119.84
2	EB	97	VAL	N-CA-C	6.51	117.19	108.27
2	FB	637	TYR	CA-C-N	6.51	126.86	119.83
2	FB	637	TYR	C-N-CA	6.51	126.86	119.83
4	AD	18	THR	CA-C-N	6.49	126.47	119.78
4	AD	18	THR	C-N-CA	6.49	126.47	119.78
2	EB	292	ILE	CB-CA-C	-6.49	105.28	111.44
2	DB	292	ILE	CB-CA-C	-6.48	105.28	111.44
7	EG	50	ALA	CA-C-N	6.48	126.41	119.28
7	EG	50	ALA	C-N-CA	6.48	126.41	119.28
1	AA	497	VAL	N-CA-C	6.47	114.52	107.60
14	DN	127	ASP	N-CA-C	-6.46	105.22	113.23
2	BB	728	THR	CB-CA-C	-6.46	103.94	110.65
1	EA	731	ILE	CB-CA-C	-6.45	103.62	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CA	498	PRO	CA-C-N	6.45	125.95	119.24
1	CA	498	PRO	C-N-CA	6.45	125.95	119.24
14	FN	56	ILE	CB-CA-C	-6.42	102.34	111.40
2	AB	674	ILE	N-CA-C	6.42	116.87	107.37
1	FA	497	VAL	N-CA-C	6.42	114.46	107.60
1	FA	974	THR	CB-CA-C	-6.42	102.42	111.85
1	BA	497	VAL	N-CA-C	6.41	114.45	107.60
2	AB	728	THR	CB-CA-C	-6.40	103.99	110.65
3	FC	283	GLU	N-CA-C	6.40	118.79	111.11
5	FE	85	GLU	CA-C-N	6.39	125.62	118.97
5	FE	85	GLU	C-N-CA	6.39	125.62	118.97
7	DG	45	LEU	N-CA-C	6.39	118.60	107.49
7	DO	291	SER	N-CA-C	-6.38	104.37	111.71
4	BD	18	THR	CA-C-N	6.36	126.33	119.78
4	BD	18	THR	C-N-CA	6.36	126.33	119.78
1	EA	1128	ASN	CA-C-N	6.36	126.04	119.56
1	EA	1128	ASN	C-N-CA	6.36	126.04	119.56
3	EC	74	GLU	CA-C-N	-6.35	118.02	122.59
3	EC	74	GLU	C-N-CA	-6.35	118.02	122.59
6	DF	134	ILE	N-CA-C	6.34	117.05	108.17
2	DB	931	TRP	CA-C-N	6.34	126.67	119.83
2	DB	931	TRP	C-N-CA	6.34	126.67	119.83
2	DB	903	ILE	CB-CA-C	-6.33	100.91	111.29
4	CD	18	THR	CA-C-N	6.33	126.30	119.78
4	CD	18	THR	C-N-CA	6.33	126.30	119.78
2	FB	580	GLY	CA-C-N	6.32	127.47	120.45
2	FB	580	GLY	C-N-CA	6.32	127.47	120.45
1	AA	731	ILE	CB-CA-C	-6.32	103.88	111.97
1	AA	1128	ASN	CA-C-N	6.32	126.00	119.56
1	AA	1128	ASN	C-N-CA	6.32	126.00	119.56
1	CA	666	VAL	CB-CA-C	-6.31	104.45	110.70
12	CL	52	GLY	N-CA-C	-6.31	106.43	115.64
2	CB	109	SER	N-CA-C	6.30	116.77	107.88
2	BB	292	ILE	CB-CA-C	-6.27	105.49	111.44
7	AG	33	GLY	N-CA-C	-6.25	107.09	115.21
1	AA	1052	GLY	N-CA-C	-6.24	106.63	115.43
3	BC	74	GLU	CA-C-N	-6.24	118.10	122.59
3	BC	74	GLU	C-N-CA	-6.24	118.10	122.59
1	CA	1442	VAL	N-CA-C	-6.24	106.69	111.62
2	BB	580	GLY	CA-C-N	6.23	127.37	120.45
2	BB	580	GLY	C-N-CA	6.23	127.37	120.45
7	FO	297	LEU	CA-C-N	6.22	127.62	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	FO	297	LEU	C-N-CA	6.22	127.62	119.84
2	EB	109	SER	N-CA-C	6.21	116.77	108.38
2	DB	1110	ILE	N-CA-C	-6.21	107.24	113.20
2	CB	97	VAL	N-CA-C	6.21	116.77	108.27
14	EN	38	PHE	CA-C-N	6.21	127.86	120.23
14	EN	38	PHE	C-N-CA	6.21	127.86	120.23
2	FB	109	SER	N-CA-C	6.18	116.59	107.88
2	CB	962	MET	N-CA-C	-6.17	104.24	110.97
2	BB	1058	GLN	CA-C-N	6.17	126.19	119.89
2	BB	1058	GLN	C-N-CA	6.17	126.19	119.89
7	EG	61	VAL	CB-CA-C	-6.17	103.98	111.88
2	FB	903	ILE	CB-CA-C	-6.15	101.20	111.29
8	CH	80	ARG	CA-C-N	6.15	126.72	120.38
8	CH	80	ARG	C-N-CA	6.15	126.72	120.38
7	AG	45	LEU	N-CA-C	6.14	118.17	107.49
1	EA	142	GLY	CA-C-N	6.13	132.73	121.70
1	EA	142	GLY	C-N-CA	6.13	132.73	121.70
2	CB	665	GLY	CA-C-N	6.11	125.32	118.97
2	CB	665	GLY	C-N-CA	6.11	125.32	118.97
3	EC	283	GLU	N-CA-C	6.11	118.44	111.11
2	AB	775	VAL	CB-CA-C	-6.10	105.72	112.68
9	CI	41	GLN	N-CA-C	-6.10	105.48	113.17
2	AB	1040	VAL	N-CA-C	6.10	117.80	108.71
1	FA	893	ASP	N-CA-C	-6.09	104.71	111.71
7	FG	61	VAL	CB-CA-C	-6.08	104.10	111.88
1	CA	362	VAL	CA-C-N	6.07	124.09	119.66
1	CA	362	VAL	C-N-CA	6.07	124.09	119.66
2	CB	580	GLY	CA-C-N	6.06	127.18	120.45
2	CB	580	GLY	C-N-CA	6.06	127.18	120.45
8	CH	57	VAL	CB-CA-C	-6.06	103.50	110.41
11	AK	95	HIS	CA-C-N	6.04	126.83	120.12
11	AK	95	HIS	C-N-CA	6.04	126.83	120.12
1	AA	1546	VAL	CB-CA-C	-6.03	106.59	111.71
2	DB	1058	GLN	CA-C-N	6.02	126.03	119.89
2	DB	1058	GLN	C-N-CA	6.02	126.03	119.89
2	FB	97	VAL	N-CA-C	6.02	116.52	108.27
2	BB	97	VAL	N-CA-C	6.02	116.52	108.27
1	CA	126	GLN	N-CA-C	-6.01	105.77	113.23
1	FA	363	PRO	O-C-N	6.01	124.08	121.31
7	BG	45	LEU	N-CA-C	6.00	117.94	107.49
2	EB	674	ILE	N-CA-C	5.99	116.23	107.37
14	BN	56	ILE	CB-CA-C	-5.98	101.48	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	DA	731	ILE	CB-CA-C	-5.98	104.32	111.97
1	BA	1052	GLY	N-CA-C	-5.97	107.41	115.36
2	EB	337	VAL	N-CA-C	5.97	116.16	110.42
2	BB	109	SER	N-CA-C	5.97	116.44	108.38
1	CA	739	VAL	N-CA-C	5.96	117.08	111.48
8	FH	76	THR	CB-CA-C	-5.96	108.49	117.07
10	DJ	68	LYS	N-CA-C	5.95	118.47	108.23
2	DB	97	VAL	N-CA-C	5.95	116.42	108.27
14	DN	93	THR	CB-CA-C	5.94	120.21	110.17
2	CB	1040	VAL	N-CA-C	5.93	117.55	108.71
1	AA	796	SER	N-CA-C	-5.93	104.73	111.07
1	FA	1081	ASN	CA-C-N	5.93	125.14	118.97
1	FA	1081	ASN	C-N-CA	5.93	125.14	118.97
2	BB	775	VAL	CB-CA-C	-5.92	106.59	113.22
2	DB	106	LYS	CA-C-N	5.92	126.85	119.98
2	DB	106	LYS	C-N-CA	5.92	126.85	119.98
2	AB	962	MET	N-CA-C	-5.92	104.52	110.97
2	CB	471	VAL	CB-CA-C	-5.91	102.97	111.19
8	BH	80	ARG	CA-C-N	5.91	126.46	120.38
8	BH	80	ARG	C-N-CA	5.91	126.46	120.38
6	EF	73	ALA	CA-C-N	-5.90	118.20	123.33
6	EF	73	ALA	C-N-CA	-5.90	118.20	123.33
7	EG	45	LEU	N-CA-C	5.90	117.76	107.49
2	AB	580	GLY	CA-C-N	5.89	126.99	120.45
2	AB	580	GLY	C-N-CA	5.89	126.99	120.45
2	EB	836	TRP	N-CA-C	-5.89	106.14	113.38
9	AI	41	GLN	N-CA-C	-5.89	105.75	113.17
2	CB	944	GLN	CA-C-N	5.88	125.82	119.76
2	CB	944	GLN	C-N-CA	5.88	125.82	119.76
2	DB	471	VAL	CB-CA-C	-5.88	103.02	111.19
1	AA	363	PRO	CA-C-N	5.88	125.89	119.90
1	AA	363	PRO	C-N-CA	5.88	125.89	119.90
2	AB	1058	GLN	CA-C-N	5.88	125.88	119.89
2	AB	1058	GLN	C-N-CA	5.88	125.88	119.89
1	DA	1156	LYS	N-CA-C	-5.87	106.77	114.04
7	CG	61	VAL	CB-CA-C	-5.86	104.38	111.88
2	FB	292	ILE	CB-CA-C	-5.86	105.87	111.44
2	EB	1040	VAL	N-CA-C	5.86	117.44	108.71
2	CB	637	TYR	CA-C-N	5.86	126.05	119.90
2	CB	637	TYR	C-N-CA	5.86	126.05	119.90
7	FG	216	HIS	N-CA-C	5.85	118.01	108.76
1	EA	1052	GLY	N-CA-C	-5.85	107.17	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	CJ	25	LEU	N-CA-C	-5.85	106.14	113.28
3	DC	283	GLU	N-CA-C	5.84	118.12	111.11
2	AB	109	SER	N-CA-C	5.84	116.27	108.38
2	FB	931	TRP	CA-C-N	5.84	126.13	119.83
2	FB	931	TRP	C-N-CA	5.84	126.13	119.83
1	BA	126	GLN	N-CA-C	-5.82	106.01	113.23
7	FO	307	GLU	CA-C-N	-5.82	115.36	123.10
7	FO	307	GLU	C-N-CA	-5.82	115.36	123.10
8	EH	80	ARG	CA-C-N	5.82	126.37	120.38
8	EH	80	ARG	C-N-CA	5.82	126.37	120.38
1	EA	126	GLN	N-CA-C	-5.81	106.02	113.23
2	FB	471	VAL	CB-CA-C	-5.81	103.12	111.19
1	CA	456	VAL	CB-CA-C	-5.81	104.54	111.97
2	BB	196	VAL	CB-CA-C	-5.79	104.40	111.88
11	CK	83	ASN	CA-C-N	5.79	127.07	119.84
11	CK	83	ASN	C-N-CA	5.79	127.07	119.84
3	DC	74	GLU	CA-C-N	-5.78	118.43	122.59
3	DC	74	GLU	C-N-CA	-5.78	118.43	122.59
3	DC	91	VAL	CB-CA-C	-5.77	104.50	112.24
1	EA	1203	ASN	N-CA-C	5.77	118.52	108.76
3	AC	283	GLU	N-CA-C	5.77	118.03	111.11
1	FA	456	VAL	CB-CA-C	-5.77	104.58	111.97
2	AB	637	TYR	CA-C-N	5.76	125.94	119.90
2	AB	637	TYR	C-N-CA	5.76	125.94	119.90
2	CB	1186	ASP	N-CA-C	-5.75	105.01	111.28
2	FB	964	VAL	CB-CA-C	-5.75	104.63	111.81
1	AA	126	GLN	N-CA-C	-5.74	106.27	113.28
7	DO	306	SER	N-CA-C	5.74	119.01	107.41
3	CC	85	PHE	N-CA-C	5.73	118.09	108.23
2	DB	964	VAL	CB-CA-C	-5.73	104.64	111.81
1	EA	1436	ASN	N-CA-C	5.73	117.22	108.52
2	DB	674	ILE	N-CA-C	5.70	115.81	107.37
13	CM	101	VAL	N-CA-C	5.69	116.30	107.99
13	EM	101	VAL	N-CA-C	5.69	116.30	107.99
2	CB	292	ILE	CB-CA-C	-5.68	106.04	111.44
1	FA	126	GLN	N-CA-C	-5.68	106.19	113.23
5	FE	196	VAL	CB-CA-C	-5.67	102.73	110.90
2	AB	106	LYS	CA-C-N	5.67	126.56	119.98
2	AB	106	LYS	C-N-CA	5.67	126.56	119.98
2	EB	637	TYR	CA-C-N	5.66	125.85	119.90
2	EB	637	TYR	C-N-CA	5.66	125.85	119.90
2	FB	337	VAL	N-CA-C	5.66	115.85	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	DB	109	SER	N-CA-C	5.65	115.70	108.24
2	EB	775	VAL	CB-CA-C	-5.65	106.24	112.68
1	FA	731	ILE	CB-CA-C	-5.65	104.64	111.88
2	FB	106	LYS	CA-C-N	5.65	126.53	119.98
2	FB	106	LYS	C-N-CA	5.65	126.53	119.98
1	EA	75	HIS	ND1-CG-CD2	-5.64	100.46	106.10
7	FG	45	LEU	N-CA-C	5.63	117.29	107.49
7	DG	216	HIS	N-CA-C	5.63	117.66	108.76
2	CB	953	ALA	N-CA-C	-5.63	106.00	112.92
7	DG	50	ALA	CA-C-N	5.63	125.47	119.28
7	DG	50	ALA	C-N-CA	5.63	125.47	119.28
1	FA	800	VAL	CB-CA-C	-5.63	104.65	112.02
1	AA	456	VAL	CB-CA-C	-5.62	104.77	111.97
2	CB	844	GLY	N-CA-C	-5.62	107.35	115.27
7	DO	270	LEU	CA-C-N	-5.61	113.98	119.76
7	DO	270	LEU	C-N-CA	-5.61	113.98	119.76
1	AA	800	VAL	CB-CA-C	-5.61	104.68	112.02
3	BC	85	PHE	N-CA-C	5.60	117.85	107.99
1	CA	1436	ASN	N-CA-C	5.60	117.03	108.52
14	FN	127	ASP	N-CA-C	-5.59	106.30	113.23
1	FA	996	TYR	N-CA-C	-5.58	104.84	111.03
2	CB	54	GLU	CB-CA-C	-5.56	107.45	114.40
9	EI	41	GLN	N-CA-C	-5.55	106.17	113.17
2	DB	54	GLU	CB-CA-C	-5.55	107.47	114.40
7	DO	286	ILE	CB-CA-C	-5.55	105.97	111.30
1	EA	1231	ALA	N-CA-C	-5.54	106.52	113.28
13	BM	101	VAL	N-CA-C	5.53	116.06	107.99
8	AH	96	VAL	N-CA-C	5.53	115.95	107.77
2	BB	1040	VAL	N-CA-C	5.53	116.94	108.71
14	EN	56	ILE	N-CA-C	5.52	115.59	107.75
2	DB	1087	LEU	N-CA-C	-5.52	105.26	111.28
1	FA	988	SER	N-CA-C	5.52	117.10	111.14
7	CG	45	LEU	N-CA-C	5.52	117.09	107.49
14	EN	127	ASP	N-CA-C	-5.51	106.72	113.50
7	FG	33	GLY	N-CA-C	-5.51	108.05	115.21
7	BG	250	ILE	N-CA-C	5.50	115.25	108.53
2	EB	1050	GLY	CA-C-N	5.50	125.82	119.93
2	EB	1050	GLY	C-N-CA	5.50	125.82	119.93
7	FO	309	VAL	N-CA-C	5.50	115.51	107.37
14	BN	123	SER	N-CA-C	5.50	117.00	107.93
2	DB	944	GLN	CA-C-N	5.50	125.42	119.76
2	DB	944	GLN	C-N-CA	5.50	125.42	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	EB	964	VAL	CB-CA-C	-5.49	104.94	111.81
1	DA	1442	VAL	N-CA-C	-5.49	107.28	111.62
1	AA	363	PRO	O-C-N	5.49	123.83	121.31
1	DA	1081	ASN	CA-C-N	5.49	124.68	118.97
1	DA	1081	ASN	C-N-CA	5.49	124.68	118.97
1	BA	1289	SER	N-CA-C	5.47	118.58	110.48
2	BB	962	MET	N-CA-C	-5.47	105.01	110.97
1	EA	707	THR	N-CA-C	-5.47	104.64	112.13
2	BB	637	TYR	CA-C-N	5.46	125.63	119.90
2	BB	637	TYR	C-N-CA	5.46	125.63	119.90
2	EB	1186	ASP	N-CA-C	-5.46	105.41	111.36
7	BG	33	GLY	N-CA-C	-5.45	108.20	115.40
14	EN	58	PHE	CA-C-N	-5.45	114.98	120.21
14	EN	58	PHE	C-N-CA	-5.45	114.98	120.21
2	AB	1050	GLY	CA-C-N	5.44	125.75	119.93
2	AB	1050	GLY	C-N-CA	5.44	125.75	119.93
14	CN	127	ASP	N-CA-C	-5.44	106.81	113.50
1	EA	1288	ARG	N-CA-C	5.44	117.87	107.75
2	DB	1040	VAL	N-CA-C	5.44	116.81	108.71
9	DI	41	GLN	N-CA-C	-5.43	106.33	113.17
11	EK	83	ASN	CA-C-N	5.43	126.62	119.84
11	EK	83	ASN	C-N-CA	5.43	126.62	119.84
6	BF	105	ALA	CA-C-N	5.42	126.27	119.98
6	BF	105	ALA	C-N-CA	5.42	126.27	119.98
3	AC	276	SER	N-CA-C	-5.42	105.54	111.82
2	BB	944	GLN	CA-C-N	5.40	125.33	119.76
2	BB	944	GLN	C-N-CA	5.40	125.33	119.76
2	AB	943	ILE	N-CA-C	5.39	115.82	107.78
1	FA	517	ALA	N-CA-C	-5.39	104.44	111.02
7	EG	33	GLY	N-CA-C	-5.39	108.20	115.21
1	EA	1195	GLU	CA-C-N	-5.39	114.12	119.56
1	EA	1195	GLU	C-N-CA	-5.39	114.12	119.56
2	AB	931	TRP	CA-C-N	5.38	125.64	119.83
2	AB	931	TRP	C-N-CA	5.38	125.64	119.83
1	CA	511	VAL	CB-CA-C	-5.38	103.60	110.98
1	FA	739	VAL	N-CA-C	5.38	116.19	111.56
1	EA	982	VAL	N-CA-C	5.38	114.34	106.55
13	FM	101	VAL	N-CA-C	5.38	115.84	107.99
7	CO	312	GLU	N-CA-C	5.38	116.75	110.41
2	EB	106	LYS	CA-C-N	5.37	126.21	119.98
2	EB	106	LYS	C-N-CA	5.37	126.21	119.98
2	EB	931	TRP	CA-C-N	5.37	125.63	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	EB	931	TRP	C-N-CA	5.37	125.63	119.83
14	EN	155	VAL	CA-C-N	5.37	125.38	119.90
14	EN	155	VAL	C-N-CA	5.37	125.38	119.90
3	EC	85	PHE	N-CA-C	5.37	117.46	108.23
2	BB	54	GLU	CB-CA-C	-5.36	107.69	114.40
1	DA	1289	SER	N-CA-C	5.36	118.85	110.32
1	FA	1231	ALA	N-CA-C	-5.36	106.74	113.28
7	FG	144	HIS	N-CA-C	5.36	117.41	108.99
1	AA	362	VAL	CA-C-N	5.36	123.57	119.66
1	AA	362	VAL	C-N-CA	5.36	123.57	119.66
8	DH	80	ARG	CA-C-N	5.36	125.90	120.38
8	DH	80	ARG	C-N-CA	5.36	125.90	120.38
8	CH	96	VAL	N-CA-C	5.36	115.76	107.78
11	FK	93	ILE	CA-C-N	5.36	125.17	119.28
11	FK	93	ILE	C-N-CA	5.36	125.17	119.28
2	DB	596	VAL	CB-CA-C	-5.35	103.86	111.40
2	FB	775	VAL	CB-CA-C	-5.35	106.58	112.68
2	CB	903	ILE	CB-CA-C	-5.34	102.53	111.29
1	EA	75	HIS	CA-CB-CG	-5.34	108.45	113.80
7	AG	61	VAL	CB-CA-C	-5.34	105.04	111.88
12	CL	56	LEU	N-CA-C	5.34	117.31	109.24
1	BA	872	ASP	CA-C-N	5.34	126.51	119.84
1	BA	872	ASP	C-N-CA	5.34	126.51	119.84
1	DA	872	ASP	CA-C-N	5.33	126.51	119.84
1	DA	872	ASP	C-N-CA	5.33	126.51	119.84
1	EA	517	ALA	N-CA-C	-5.33	104.52	111.02
1	BA	1563	VAL	CB-CA-C	-5.32	104.89	111.70
1	CA	800	VAL	CB-CA-C	-5.32	105.06	112.02
1	EA	1111	GLU	CA-C-N	5.32	126.06	120.11
1	EA	1111	GLU	C-N-CA	5.32	126.06	120.11
2	CB	931	TRP	CA-C-N	5.31	125.56	119.83
2	CB	931	TRP	C-N-CA	5.31	125.56	119.83
2	AB	878	GLU	CA-C-N	5.30	126.47	119.84
2	AB	878	GLU	C-N-CA	5.30	126.47	119.84
1	BA	456	VAL	CB-CA-C	-5.30	105.18	111.97
10	CJ	3	VAL	CA-C-N	5.30	125.22	119.76
10	CJ	3	VAL	C-N-CA	5.30	125.22	119.76
2	EB	587	GLN	N-CA-C	5.30	117.03	108.34
8	CH	62	SER	N-CA-C	5.30	115.53	108.38
14	DN	123	SER	N-CA-C	5.30	117.24	108.13
11	EK	93	ILE	CA-C-N	5.30	125.11	119.28
11	EK	93	ILE	C-N-CA	5.30	125.11	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	FB	587	GLN	N-CA-C	5.29	117.02	108.34
2	FB	878	GLU	CA-C-N	5.29	126.45	119.84
2	FB	878	GLU	C-N-CA	5.29	126.45	119.84
3	DC	85	PHE	N-CA-C	5.28	117.29	107.99
3	CC	72	ILE	CB-CA-C	-5.28	105.73	110.91
8	CH	79	TRP	N-CA-C	5.28	117.22	109.24
2	CB	964	VAL	CB-CA-C	-5.28	105.21	111.81
3	EC	83	VAL	CB-CA-C	-5.28	102.94	110.12
1	EA	1546	VAL	CB-CA-C	-5.27	107.23	111.71
2	FB	665	GLY	CA-C-N	5.27	124.45	118.97
2	FB	665	GLY	C-N-CA	5.27	124.45	118.97
1	DA	362	VAL	CA-C-N	5.26	123.50	119.66
1	DA	362	VAL	C-N-CA	5.26	123.50	119.66
1	DA	1203	ASN	N-CA-C	5.26	117.66	108.76
2	DB	844	GLY	N-CA-C	-5.26	107.96	115.64
5	CE	52	ARG	CG-CD-NE	5.25	123.56	112.00
2	CB	196	VAL	CB-CA-C	-5.25	105.11	111.88
2	DB	637	TYR	CA-C-N	5.25	125.41	119.90
2	DB	637	TYR	C-N-CA	5.25	125.41	119.90
7	CO	305	GLY	N-CA-C	-5.24	107.77	114.85
1	BA	362	VAL	CA-C-N	5.24	123.48	119.66
1	BA	362	VAL	C-N-CA	5.24	123.48	119.66
1	CA	10	GLU	N-CA-C	5.24	117.71	108.75
1	AA	988	SER	N-CA-C	5.24	116.67	111.07
2	AB	1087	LEU	N-CA-C	-5.23	105.58	111.28
7	EG	11	ARG	CA-CB-CG	-5.23	103.63	114.10
2	BB	106	LYS	CA-C-N	5.23	126.05	119.98
2	BB	106	LYS	C-N-CA	5.23	126.05	119.98
2	CB	1087	LEU	N-CA-C	-5.22	105.58	111.28
2	FB	1050	GLY	CA-C-N	5.22	125.52	119.93
2	FB	1050	GLY	C-N-CA	5.22	125.52	119.93
13	CM	86	LYS	N-CA-C	-5.22	106.94	113.15
2	EB	902	SER	N-CA-C	5.22	115.13	108.24
3	AC	170	GLU	CA-C-N	5.21	124.97	119.76
3	AC	170	GLU	C-N-CA	5.21	124.97	119.76
2	CB	878	GLU	CA-C-N	5.21	126.35	119.84
2	CB	878	GLU	C-N-CA	5.21	126.35	119.84
7	CG	144	HIS	N-CA-C	5.21	117.17	108.99
2	AB	97	VAL	N-CA-C	5.20	115.39	108.27
8	EH	57	VAL	CB-CA-C	-5.20	104.48	110.41
1	CA	1563	VAL	CB-CA-C	-5.19	105.05	111.70
8	FH	57	VAL	CB-CA-C	-5.19	104.50	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	AB	903	ILE	CB-CA-C	-5.18	102.79	111.29
1	CA	1063	MET	N-CA-C	-5.18	106.46	112.89
11	BK	83	ASN	CA-C-N	5.18	126.32	119.84
11	BK	83	ASN	C-N-CA	5.18	126.32	119.84
3	EC	138	VAL	N-CA-C	5.18	115.44	107.77
1	DA	893	ASP	N-CA-C	-5.18	105.76	111.71
2	DB	11	ALA	CA-C-N	5.18	131.43	121.54
2	DB	11	ALA	C-N-CA	5.18	131.43	121.54
6	DF	98	ALA	N-CA-C	-5.18	105.64	111.28
7	CG	216	HIS	N-CA-C	5.17	116.93	108.76
2	BB	964	VAL	CB-CA-C	-5.17	105.35	111.81
1	EA	716	PRO	O-C-N	5.17	123.69	121.31
14	DN	129	ALA	CA-C-N	5.17	125.46	119.93
14	DN	129	ALA	C-N-CA	5.17	125.46	119.93
8	FH	80	ARG	CA-C-N	5.17	125.70	120.38
8	FH	80	ARG	C-N-CA	5.17	125.70	120.38
2	FB	1186	ASP	N-CA-C	-5.17	105.73	111.36
14	FN	56	ILE	N-CA-C	5.17	115.09	107.75
13	DM	101	VAL	N-CA-C	5.16	115.53	107.99
1	DA	126	GLN	N-CA-C	-5.16	106.98	113.28
3	CC	83	VAL	CB-CA-C	-5.16	102.83	111.29
11	DK	93	ILE	CA-C-N	5.15	124.95	119.28
11	DK	93	ILE	C-N-CA	5.15	124.95	119.28
5	DE	196	VAL	CB-CA-C	-5.15	103.48	110.90
11	FK	83	ASN	CA-C-N	5.15	126.28	119.84
11	FK	83	ASN	C-N-CA	5.15	126.28	119.84
1	CA	535	GLN	N-CA-C	5.15	116.67	108.79
1	BA	1226	VAL	N-CA-C	5.14	116.07	111.90
1	CA	918	LYS	N-CA-C	-5.14	102.03	109.59
3	CC	74	GLU	CA-C-N	-5.14	118.89	122.59
3	CC	74	GLU	C-N-CA	-5.14	118.89	122.59
2	DB	587	GLN	N-CA-C	5.14	116.78	108.34
1	FA	1436	ASN	N-CA-C	5.14	116.34	108.52
7	FG	11	ARG	CA-CB-CG	-5.14	103.82	114.10
5	CE	150	VAL	N-CA-C	5.14	113.10	107.60
7	AG	250	ILE	N-CA-C	5.13	114.79	108.53
1	CA	1128	ASN	CA-C-N	5.13	124.92	119.28
1	CA	1128	ASN	C-N-CA	5.13	124.92	119.28
2	BB	903	ILE	CB-CA-C	-5.12	102.89	111.29
2	BB	902	SER	N-CA-C	5.12	115.00	108.24
2	FB	274	VAL	CB-CA-C	-5.12	105.42	111.97
3	FC	85	PHE	N-CA-C	5.12	116.65	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	CB	967	LEU	N-CA-C	-5.12	105.14	111.33
10	BJ	3	VAL	CA-C-N	5.11	125.03	119.76
10	BJ	3	VAL	C-N-CA	5.11	125.03	119.76
3	BC	170	GLU	CA-C-N	5.11	124.87	119.76
3	BC	170	GLU	C-N-CA	5.11	124.87	119.76
5	BE	85	GLU	CA-C-N	5.10	124.55	119.24
5	BE	85	GLU	C-N-CA	5.10	124.55	119.24
1	DA	1436	ASN	N-CA-C	5.10	116.28	108.52
7	AG	216	HIS	N-CA-C	5.10	116.82	108.76
8	FH	100	THR	N-CA-C	5.10	116.82	109.07
14	DN	56	ILE	N-CA-C	5.10	116.34	108.44
1	AA	974	THR	CB-CA-C	-5.09	104.36	111.85
2	AB	68	ILE	N-CA-C	-5.09	107.78	111.90
7	FG	248	THR	CB-CA-C	-5.09	107.19	114.87
2	AB	774	ALA	N-CA-C	5.08	116.99	107.99
3	AC	72	ILE	CB-CA-C	-5.08	106.42	111.30
11	CK	95	HIS	CA-C-N	5.08	125.76	120.12
11	CK	95	HIS	C-N-CA	5.08	125.76	120.12
3	FC	222	VAL	N-CA-C	5.08	115.79	108.48
13	FM	101	VAL	CB-CA-C	-5.08	104.02	110.98
6	CF	125	LEU	N-CA-C	-5.07	105.88	111.71
2	EB	283	THR	N-CA-C	5.07	116.23	108.42
14	FN	123	SER	N-CA-C	5.07	116.30	107.93
1	AA	517	ALA	N-CA-C	-5.07	104.84	111.02
5	AE	85	GLU	CA-C-N	5.07	124.51	119.24
5	AE	85	GLU	C-N-CA	5.07	124.51	119.24
2	EB	953	ALA	N-CA-C	-5.06	106.69	112.92
2	CB	187	SER	CA-C-N	-5.06	116.25	123.03
2	CB	187	SER	C-N-CA	-5.06	116.25	123.03
1	AA	1276	THR	CA-C-N	-5.05	118.64	122.33
1	AA	1276	THR	C-N-CA	-5.05	118.64	122.33
3	EC	72	ILE	CB-CA-C	-5.05	105.96	110.91
1	AA	943	ILE	N-CA-C	-5.05	108.91	113.71
1	AA	1231	ALA	N-CA-C	-5.04	107.12	113.28
7	BG	162	ILE	CA-C-N	5.04	126.15	119.84
7	BG	162	ILE	C-N-CA	5.04	126.15	119.84
1	CA	893	ASP	N-CA-C	-5.04	105.78	111.28
1	FA	918	LYS	N-CA-C	-5.04	102.18	109.59
2	FB	217	ILE	N-CA-C	5.04	115.91	108.45
2	CB	902	SER	N-CA-C	5.04	114.89	108.24
1	EA	800	VAL	CB-CA-C	-5.04	105.42	112.02
2	EB	878	GLU	CA-C-N	5.04	126.14	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	EB	878	GLU	C-N-CA	5.04	126.14	119.84
3	EC	35	LYS	N-CA-C	-5.03	106.24	112.38
8	FH	96	VAL	N-CA-C	5.03	115.22	107.77
1	BA	363	PRO	O-C-N	5.03	123.62	121.31
7	BO	285	SER	N-CA-C	-5.03	105.93	111.71
3	FC	223	SER	N-CA-C	-5.03	106.36	113.20
1	DA	1226	VAL	N-CA-C	5.02	115.97	111.90
1	BA	1081	ASN	CA-C-N	5.02	124.19	118.97
1	BA	1081	ASN	C-N-CA	5.02	124.19	118.97
2	FB	774	ALA	N-CA-C	5.02	116.88	107.99
7	CG	11	ARG	CB-CG-CD	5.02	122.84	111.30
1	CA	1226	VAL	N-CA-C	5.02	115.96	111.90
8	EH	100	THR	N-CA-C	5.02	116.82	109.24
2	EB	1058	GLN	CA-C-N	5.02	126.11	119.84
2	EB	1058	GLN	C-N-CA	5.02	126.11	119.84
1	DA	534	THR	N-CA-C	-5.01	108.19	114.56
2	FB	902	SER	N-CA-C	5.01	114.86	108.24
7	EG	216	HIS	N-CA-C	5.01	116.67	108.76
2	DB	12	ARG	CA-C-N	-5.00	114.46	121.72
2	DB	12	ARG	C-N-CA	-5.00	114.46	121.72
8	AH	100	THR	N-CA-C	5.00	116.80	109.24
1	CA	1524	VAL	N-CA-C	5.00	115.24	107.78
1	FA	1489	VAL	N-CA-CB	-5.00	105.37	110.62

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	EA	75	HIS	Sidechain

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	AA	11703	0	11787	788	0
1	BA	11540	0	11624	746	0
1	CA	11695	0	11780	843	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	DA	11697	0	11775	853	0
1	EA	11706	0	11788	831	0
1	FA	11709	0	11790	849	0
2	AB	9187	0	9100	624	0
2	BB	9175	0	9074	606	0
2	CB	9304	0	9216	663	0
2	DB	9269	0	9175	684	0
2	EB	9265	0	9179	673	0
2	FB	9270	0	9180	685	0
3	AC	2413	0	2404	172	0
3	BC	2413	0	2404	154	0
3	CC	2413	0	2404	190	0
3	DC	2413	0	2404	184	0
3	EC	2413	0	2404	174	0
3	FC	2413	0	2404	180	0
4	AD	459	0	462	25	0
4	BD	459	0	462	33	0
4	CD	459	0	462	27	0
4	DD	459	0	462	26	0
4	ED	459	0	462	30	0
4	FD	459	0	462	32	0
5	AE	1760	0	1788	89	0
5	BE	1760	0	1788	89	0
5	CE	1760	0	1788	97	0
5	DE	1760	0	1788	104	0
5	EE	1760	0	1788	89	0
5	FE	1760	0	1788	112	0
6	AF	807	0	827	45	0
6	BF	807	0	827	44	0
6	CF	816	0	833	41	0
6	DF	816	0	833	40	0
6	EF	816	0	833	44	0
6	FF	816	0	833	39	0
7	AG	1599	0	1602	116	0
7	AO	413	0	389	49	0
7	BG	1539	0	1552	112	0
7	BO	404	0	383	46	0
7	CG	1599	0	1602	111	0
7	CO	398	0	378	42	0
7	DG	1599	0	1602	123	0
7	DO	413	0	389	36	0
7	EG	1599	0	1602	121	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	EO	413	0	389	49	0
7	FG	1599	0	1602	116	0
7	FO	413	0	389	38	0
8	AH	1063	0	1034	61	0
8	BH	1052	0	1021	62	0
8	CH	1052	0	1021	73	0
8	DH	1075	0	1046	72	0
8	EH	1075	0	1046	67	0
8	FH	1075	0	1046	65	0
9	AI	943	0	929	65	0
9	BI	716	0	709	40	0
9	CI	943	0	929	67	0
9	DI	943	0	929	65	0
9	EI	898	0	880	58	0
9	FI	943	0	929	66	0
10	AJ	558	0	572	43	0
10	BJ	569	0	585	38	0
10	CJ	558	0	572	47	0
10	DJ	569	0	585	40	0
10	EJ	558	0	572	36	0
10	FJ	558	0	572	40	0
11	AK	793	0	790	42	0
11	BK	786	0	782	42	0
11	CK	793	0	790	47	0
11	DK	793	0	790	52	0
11	EK	786	0	782	48	0
11	FK	786	0	782	49	0
12	AL	352	0	374	48	0
12	BL	352	0	374	26	0
12	CL	352	0	374	44	0
12	DL	352	0	374	42	0
12	EL	352	0	374	35	0
12	FL	352	0	374	45	0
13	AM	863	0	864	62	0
13	BM	863	0	864	78	0
13	CM	863	0	864	61	0
13	DM	863	0	864	59	0
13	EM	869	0	869	70	0
13	FM	869	0	869	73	0
14	AN	1127	0	1133	88	0
14	BN	1130	0	1138	83	0
14	CN	1137	0	1148	87	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	DN	1146	0	1153	79	0
14	EN	1140	0	1150	80	0
14	FN	1146	0	1155	80	0
15	AA	2	0	0	0	0
15	AB	1	0	0	0	0
15	AI	2	0	0	0	0
15	AJ	1	0	0	0	0
15	AL	1	0	0	0	0
15	BA	2	0	0	0	0
15	BB	1	0	0	0	0
15	BI	2	0	0	0	0
15	BJ	1	0	0	0	0
15	BL	1	0	0	0	0
15	CA	2	0	0	0	0
15	CB	1	0	0	0	0
15	CI	2	0	0	0	0
15	CJ	1	0	0	0	0
15	CL	1	0	0	0	0
15	DA	2	0	0	0	0
15	DB	1	0	0	0	0
15	DI	2	0	0	0	0
15	DJ	1	0	0	0	0
15	DL	1	0	0	0	0
15	EA	2	0	0	0	0
15	EB	1	0	0	0	0
15	EI	2	0	0	0	0
15	EJ	1	0	0	0	0
15	EL	1	0	0	0	0
15	FA	2	0	0	0	0
15	FB	1	0	0	0	0
15	FI	2	0	0	0	0
15	FJ	1	0	0	0	0
15	FL	1	0	0	0	0
All	All	204233	0	204265	12684	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 31.

All (12684) 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)
7:FG:11:ARG:HG2	7:FG:11:ARG:HH11	1.10	1.15
7:DG:11:ARG:HH11	7:DG:11:ARG:HG3	1.13	1.11
7:AG:11:ARG:HH11	7:AG:11:ARG:HG3	1.14	1.10
7:EG:11:ARG:HH11	7:EG:11:ARG:HG2	1.13	1.10
7:CG:11:ARG:HG3	7:CG:11:ARG:HH11	1.11	1.08
2:CB:935:ASP:OD1	3:CC:69:ARG:NH2	1.93	1.00
12:AL:34:CYS:HB3	12:AL:51:CYS:SG	2.02	0.99
1:EA:970:LYS:HG2	1:EA:973:GLU:HG2	1.45	0.99
7:BG:49:LEU:HD11	7:BG:53:TYR:HB2	1.42	0.99
12:CL:34:CYS:HB3	12:CL:51:CYS:SG	2.02	0.99
2:FB:75:ASP:OD1	2:FB:93:ASN:ND2	1.96	0.99
3:EC:115:TRP:HA	3:EC:210:LEU:HD11	1.46	0.98
2:FB:699:ILE:HG12	2:FB:700:LEU:HD12	1.45	0.97
7:EG:49:LEU:HD11	7:EG:53:TYR:HB2	1.46	0.97
7:AG:49:LEU:HD11	7:AG:53:TYR:HB2	1.44	0.97
7:CG:49:LEU:HD11	7:CG:53:TYR:HB2	1.45	0.96
12:EL:34:CYS:HB3	12:EL:51:CYS:SG	2.05	0.96
1:AA:1243:TRP:O	1:AA:1517:ARG:NH1	1.98	0.96
1:DA:1202:LEU:HD22	9:DI:99:LEU:HD22	1.48	0.96
1:EA:429:THR:OG1	7:EO:273:VAL:HG11	1.66	0.96
12:BL:34:CYS:HB3	12:BL:51:CYS:SG	2.05	0.95
2:DB:360:VAL:HA	2:DB:370:LYS:HZ3	1.31	0.95
2:FB:655:TYR:HA	2:FB:688:HIS:HD2	1.32	0.95
2:DB:699:ILE:HG12	2:DB:700:LEU:HD12	1.49	0.95
1:FA:395:LEU:HD22	7:FO:276:LYS:HD3	1.47	0.94
2:EB:360:VAL:HA	2:EB:370:LYS:HZ3	1.29	0.94
2:EB:699:ILE:HG12	2:EB:700:LEU:HD12	1.49	0.94
2:AB:699:ILE:HG12	2:AB:700:LEU:HD12	1.50	0.94
12:DL:34:CYS:HB3	12:DL:51:CYS:SG	2.07	0.94
12:FL:34:CYS:HB3	12:FL:51:CYS:SG	2.08	0.94
7:CG:149:ILE:HG22	7:CG:150:HIS:HD2	1.34	0.93
1:EA:1033:SER:HB3	6:EF:139:PRO:HG2	1.50	0.93
5:AE:57:MET:N	5:AE:57:MET:SD	2.42	0.93
1:CA:1243:TRP:O	1:CA:1517:ARG:NH1	2.01	0.93
3:CC:115:TRP:HA	3:CC:210:LEU:HD11	1.49	0.93
1:DA:1202:LEU:HD13	9:DI:99:LEU:HD13	1.49	0.93
8:DH:5:LEU:HB2	8:DH:60:ALA:HA	1.49	0.93
2:DB:212:ASN:HD21	2:DB:239:VAL:HG22	1.32	0.93
2:EB:214:PRO:HB3	2:EB:377:MET:HE3	1.48	0.93
7:FG:149:ILE:HG22	7:FG:150:HIS:HD2	1.34	0.93
3:AC:115:TRP:HA	3:AC:210:LEU:HD11	1.49	0.92
8:BH:5:LEU:HB2	8:BH:60:ALA:HA	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:964:LYS:NZ	2:AB:672:MET:O	2.02	0.92
3:FC:115:TRP:HA	3:FC:210:LEU:HD11	1.50	0.92
7:DG:49:LEU:HD11	7:DG:53:TYR:HB2	1.49	0.92
7:FG:11:ARG:HG2	7:FG:11:ARG:NH1	1.78	0.92
1:EA:1261:VAL:C	1:EA:1262:LEU:N	2.28	0.91
1:EA:680:LEU:HD21	1:EA:731:ILE:HD12	1.53	0.91
3:EC:100:ARG:NH1	3:EC:193:LEU:O	2.03	0.91
2:EB:212:ASN:HD21	2:EB:239:VAL:HG22	1.35	0.91
1:EA:825:ALA:HB1	2:EB:776:ILE:HD11	1.50	0.91
1:BA:1243:TRP:O	1:BA:1517:ARG:NH1	2.04	0.91
2:BB:212:ASN:HD21	2:BB:239:VAL:HG22	1.31	0.91
1:DA:1243:TRP:O	1:DA:1517:ARG:NH1	2.04	0.90
1:FA:1243:TRP:O	1:FA:1517:ARG:NH1	2.03	0.90
8:FH:53:ASP:HB3	8:FH:55:LEU:HD11	1.53	0.90
2:AB:214:PRO:HB3	2:AB:377:MET:HE3	1.53	0.90
2:AB:655:TYR:HA	2:AB:688:HIS:HD2	1.37	0.90
2:CB:893:ASN:O	2:CB:895:PHE:N	2.04	0.90
1:AA:475:ARG:HE	7:AO:316:GLU:HG2	1.37	0.90
2:CB:360:VAL:HA	2:CB:370:LYS:HZ1	1.35	0.90
1:CA:1287:ALA:HA	1:CA:1478:ALA:HB2	1.52	0.90
2:CB:699:ILE:HG12	2:CB:700:LEU:HD12	1.51	0.90
8:DH:53:ASP:HB3	8:DH:55:LEU:HD11	1.52	0.89
2:DB:935:ASP:OD1	3:DC:69:ARG:NH2	2.05	0.89
1:BA:719:ILE:HG12	8:BH:97:MET:HG2	1.54	0.89
2:AB:358:VAL:O	2:AB:370:LYS:NZ	2.05	0.89
1:EA:1243:TRP:O	1:EA:1517:ARG:NH1	2.06	0.89
3:CC:32:ASN:HB2	3:CC:35:LYS:HE3	1.52	0.89
2:FB:214:PRO:HB3	2:FB:377:MET:HE3	1.55	0.89
2:CB:804:TYR:HB3	2:CB:904:LYS:HD3	1.54	0.89
1:DA:1225:ILE:HD13	1:DA:1566:ILE:HG23	1.53	0.89
3:FC:100:ARG:NH1	3:FC:193:LEU:O	2.05	0.89
1:FA:1059:LYS:HD2	1:FA:1177:SER:HA	1.55	0.88
3:BC:115:TRP:HA	3:BC:210:LEU:HD11	1.52	0.88
14:EN:78:THR:HB	14:EN:89:ILE:HB	1.55	0.88
7:FG:248:THR:OG1	7:FG:249:LEU:N	2.03	0.88
1:CA:1291:VAL:HG13	1:CA:1473:LYS:HB2	1.54	0.88
1:DA:429:THR:HG21	7:DO:274:SER:HB3	1.54	0.88
8:AH:40:LEU:HD13	8:AH:123:MET:HE3	1.54	0.88
7:FG:43:ILE:HD11	7:FG:120:VAL:HG12	1.55	0.88
1:AA:1225:ILE:HD13	1:AA:1566:ILE:HG23	1.54	0.88
7:DG:11:ARG:HG3	7:DG:11:ARG:NH1	1.84	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:DL:34:CYS:CB	12:DL:51:CYS:SG	2.62	0.88
1:FA:1291:VAL:HG13	1:FA:1473:LYS:HB2	1.55	0.88
7:FG:49:LEU:HD11	7:FG:53:TYR:HB2	1.54	0.88
1:CA:477:ASN:O	2:CB:1091:ARG:NH2	2.06	0.88
1:CA:1225:ILE:HD13	1:CA:1566:ILE:HG23	1.54	0.88
2:EB:935:ASP:OD1	3:EC:69:ARG:NH2	2.07	0.88
2:EB:1052:VAL:HA	2:EB:1059:PRO:HA	1.53	0.88
1:DA:477:ASN:OD1	2:DB:1047:ARG:NH1	2.07	0.87
1:BA:964:LYS:NZ	2:BB:672:MET:O	2.06	0.87
2:CB:212:ASN:HD21	2:CB:239:VAL:HG22	1.39	0.87
7:CG:11:ARG:HG3	7:CG:11:ARG:NH1	1.84	0.87
7:AG:248:THR:OG1	7:AG:249:LEU:N	2.02	0.87
1:BA:425:ASN:HD21	7:BO:274:SER:HB2	1.39	0.87
2:EB:811:LEU:HD13	2:EB:823:GLN:HE21	1.40	0.87
1:EA:1291:VAL:HG13	1:EA:1473:LYS:HB2	1.57	0.87
1:BA:1292:ILE:HD11	1:BA:1473:LYS:H	1.40	0.87
5:DE:5:ASN:HD21	5:DE:52:ARG:HH21	1.20	0.87
12:CL:47:ARG:HB3	12:CL:54:ARG:HG3	1.55	0.87
3:DC:115:TRP:HA	3:DC:210:LEU:HD11	1.56	0.87
2:FB:212:ASN:HD21	2:FB:239:VAL:HG22	1.38	0.87
1:AA:1059:LYS:HD2	1:AA:1177:SER:HA	1.57	0.87
1:BA:1225:ILE:HD13	1:BA:1566:ILE:HG23	1.57	0.87
7:BG:43:ILE:HD11	7:BG:120:VAL:HG12	1.56	0.87
13:CM:10:ILE:HD11	14:CN:72:VAL:HB	1.57	0.87
3:DC:126:PHE:HA	3:DC:130:ASN:HD22	1.39	0.87
2:FB:850:THR:H	2:FB:882:ILE:HG13	1.39	0.87
8:FH:40:LEU:HD13	8:FH:123:MET:HE3	1.55	0.87
2:AB:850:THR:H	2:AB:882:ILE:HG13	1.40	0.86
13:AM:10:ILE:HD11	14:AN:72:VAL:HB	1.57	0.86
3:CC:126:PHE:HA	3:CC:130:ASN:HD22	1.39	0.86
1:FA:1273:THR:HA	9:FI:48:VAL:HG22	1.57	0.86
3:EC:69:ARG:O	3:EC:73:SER:OG	1.93	0.86
2:BB:804:TYR:HB3	2:BB:904:LYS:HD3	1.56	0.86
3:BC:32:ASN:HB2	3:BC:35:LYS:HE3	1.57	0.86
7:AG:43:ILE:HD11	7:AG:120:VAL:HG12	1.56	0.86
3:DC:32:ASN:HB2	3:DC:35:LYS:HE3	1.57	0.86
7:EG:11:ARG:HG2	7:EG:11:ARG:NH1	1.80	0.86
8:CH:5:LEU:HB2	8:CH:60:ALA:HA	1.56	0.86
1:DA:964:LYS:NZ	2:DB:672:MET:O	2.09	0.86
1:DA:1292:ILE:HD11	1:DA:1473:LYS:H	1.38	0.86
7:AO:272:ILE:O	7:AO:275:ASN:ND2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:729:LYS:HD2	8:CH:120:GLY:HA3	1.58	0.86
2:DB:358:VAL:O	2:DB:370:LYS:NZ	2.08	0.86
3:DC:100:ARG:NH1	3:DC:193:LEU:O	2.08	0.86
13:FM:10:ILE:HD11	14:FN:72:VAL:HB	1.56	0.86
7:AG:11:ARG:HG3	7:AG:11:ARG:NH1	1.84	0.86
3:AC:100:ARG:NH1	3:AC:193:LEU:O	2.08	0.86
1:EA:1251:ALA:O	1:EA:1254:PHE:N	2.09	0.86
3:BC:100:ARG:NH1	3:BC:193:LEU:O	2.08	0.85
12:EL:47:ARG:HB3	12:EL:54:ARG:HG3	1.58	0.85
1:EA:843:ARG:NH1	2:EB:988:GLU:OE2	2.09	0.85
7:AG:35:SER:OG	7:AG:132:VAL:O	1.95	0.85
12:EL:34:CYS:CB	12:EL:51:CYS:SG	2.63	0.85
7:EO:272:ILE:HG23	7:EO:275:ASN:HB2	1.58	0.85
1:FA:1456:PHE:HB3	1:FA:1474:LEU:HD11	1.58	0.85
3:CC:100:ARG:NH1	3:CC:193:LEU:O	2.09	0.85
1:DA:76:GLN:HE22	2:DB:1111:LEU:HD12	1.41	0.85
2:DB:811:LEU:HD13	2:DB:823:GLN:HE21	1.42	0.85
8:EH:5:LEU:HB2	8:EH:60:ALA:HA	1.58	0.85
1:AA:120:CYS:HB3	1:AA:189:VAL:HG21	1.59	0.85
1:AA:843:ARG:NH1	2:AB:988:GLU:OE2	2.10	0.85
6:CF:110:ASP:N	6:CF:110:ASP:OD1	2.10	0.85
7:DG:43:ILE:HD11	7:DG:120:VAL:HG12	1.58	0.85
3:AC:103:LEU:O	10:AJ:6:ARG:NH2	2.07	0.85
1:CA:970:LYS:HG2	1:CA:973:GLU:HG2	1.59	0.85
2:CB:655:TYR:HA	2:CB:688:HIS:HD2	1.41	0.85
2:EB:132:SER:HB2	2:EB:134:ARG:HD3	1.57	0.85
2:AB:520:LEU:HD21	2:AB:530:PRO:HA	1.59	0.85
14:CN:78:THR:HB	14:CN:89:ILE:HB	1.58	0.85
1:DA:477:ASN:O	2:DB:1091:ARG:NH2	2.09	0.85
1:FA:1033:SER:HB3	6:FF:139:PRO:HG2	1.59	0.85
14:FN:78:THR:HB	14:FN:89:ILE:HB	1.59	0.85
1:CA:467:PHE:HA	1:CA:471:MET:HE3	1.58	0.85
2:CB:214:PRO:HB3	2:CB:377:MET:HE3	1.57	0.85
2:CB:1017:ALA:O	3:CC:65:ASN:ND2	2.10	0.84
1:FA:794:VAL:HG23	1:FA:795:HIS:H	1.41	0.84
1:AA:1033:SER:HB3	6:AF:139:PRO:HG2	1.59	0.84
11:AK:89:CYS:SG	11:AK:90:GLY:N	2.50	0.84
8:EH:93:TYR:HA	8:EH:145:ARG:HG3	1.58	0.84
2:FB:358:VAL:O	2:FB:370:LYS:NZ	2.10	0.84
7:FO:265:SER:OG	7:FO:266:GLN:N	1.98	0.84
8:AH:93:TYR:HA	8:AH:145:ARG:HG3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:179:ASP:HB2	14:AN:180:PHE:CE1	2.12	0.84
1:DA:1291:VAL:HG13	1:DA:1473:LYS:HB2	1.59	0.84
2:DB:850:THR:H	2:DB:882:ILE:HG13	1.40	0.84
4:DD:44:ILE:HD13	4:DD:90:LYS:HG3	1.59	0.84
5:EE:198:ILE:HD11	5:EE:212:ARG:HG2	1.59	0.84
1:BA:477:ASN:OD1	2:BB:1047:ARG:NH1	2.10	0.84
1:FA:477:ASN:OD1	2:FB:1047:ARG:NH1	2.11	0.84
5:CE:57:MET:SD	5:CE:57:MET:N	2.48	0.84
7:CG:35:SER:OG	7:CG:132:VAL:O	1.95	0.84
1:EA:719:ILE:HG12	8:EH:97:MET:HG2	1.59	0.84
1:AA:1291:VAL:HG13	1:AA:1473:LYS:HB2	1.60	0.84
14:CN:179:ASP:HB2	14:CN:180:PHE:CE1	2.12	0.84
1:FA:964:LYS:NZ	2:FB:672:MET:O	2.09	0.84
8:AH:53:ASP:HB3	8:AH:55:LEU:HD11	1.57	0.84
1:CA:825:ALA:HB1	2:CB:776:ILE:HD11	1.60	0.84
1:DA:1059:LYS:HD2	1:DA:1177:SER:HA	1.58	0.84
7:DG:248:THR:OG1	7:DG:249:LEU:N	2.08	0.84
1:EA:794:VAL:HG23	1:EA:795:HIS:H	1.41	0.84
2:EB:850:THR:H	2:EB:882:ILE:HG13	1.40	0.84
1:EA:830:MET:HE1	2:EB:963:PHE:HB3	1.57	0.84
2:CB:397:THR:HB	2:CB:666:PRO:HB3	1.60	0.84
3:CC:84:TYR:O	3:CC:204:LEU:HB2	1.77	0.84
1:EA:1456:PHE:HB3	1:EA:1474:LEU:HD11	1.58	0.84
2:BB:360:VAL:HA	2:BB:370:LYS:HZ1	1.42	0.83
2:CB:132:SER:HB2	2:CB:134:ARG:HD3	1.60	0.83
7:CG:248:THR:OG1	7:CG:249:LEU:N	2.03	0.83
2:FB:935:ASP:OD1	3:FC:69:ARG:NH2	2.11	0.83
13:EM:12:ILE:HG21	14:EN:68:LYS:HA	1.58	0.83
1:AA:830:MET:HE1	2:AB:963:PHE:HB3	1.60	0.83
2:AB:360:VAL:HA	2:AB:370:LYS:HZ1	1.43	0.83
2:BB:214:PRO:HB3	2:BB:377:MET:HE3	1.60	0.83
2:EB:358:VAL:O	2:EB:370:LYS:NZ	2.10	0.83
1:CA:120:CYS:HB3	1:CA:189:VAL:HG21	1.60	0.83
1:CA:1059:LYS:HD2	1:CA:1177:SER:HA	1.61	0.83
2:CB:203:ILE:HD13	2:CB:405:GLY:HA3	1.59	0.83
2:EB:804:TYR:HB3	2:EB:904:LYS:HD3	1.60	0.83
2:AB:1017:ALA:O	3:AC:65:ASN:ND2	2.11	0.83
2:CB:929:ARG:NH2	11:CK:97:SER:OG	2.11	0.83
7:EO:266:GLN:O	7:EO:269:SER:N	2.11	0.83
2:BB:132:SER:HB2	2:BB:134:ARG:HD3	1.60	0.83
1:DA:794:VAL:HG23	1:DA:795:HIS:H	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:149:ILE:HG22	7:BG:150:HIS:HD2	1.44	0.83
7:CO:273:VAL:O	7:CO:275:ASN:N	2.11	0.83
2:DB:655:TYR:HA	2:DB:688:HIS:HD2	1.42	0.83
5:DE:57:MET:N	5:DE:57:MET:SD	2.52	0.83
8:BH:53:ASP:HB3	8:BH:55:LEU:HD11	1.60	0.83
1:CA:830:MET:HE1	2:CB:963:PHE:HB3	1.60	0.83
1:CA:1456:PHE:HB3	1:CA:1474:LEU:HD11	1.60	0.83
7:AG:149:ILE:HG22	7:AG:150:HIS:HD2	1.42	0.83
1:CA:1251:ALA:O	1:CA:1254:PHE:N	2.12	0.83
8:CH:53:ASP:HB3	8:CH:55:LEU:HD11	1.59	0.83
11:CK:88:PHE:HB3	11:CK:106:GLN:HB2	1.61	0.83
1:DA:1456:PHE:HB3	1:DA:1474:LEU:HD11	1.60	0.83
1:BA:1291:VAL:HG13	1:BA:1473:LYS:HB2	1.61	0.83
2:BB:699:ILE:HG12	2:BB:700:LEU:HD12	1.61	0.83
3:CC:103:LEU:O	10:CJ:6:ARG:NH2	2.12	0.83
1:AA:794:VAL:HG23	1:AA:795:HIS:H	1.44	0.82
12:BL:47:ARG:HB3	12:BL:54:ARG:HG3	1.61	0.82
2:CB:358:VAL:O	2:CB:370:LYS:NZ	2.11	0.82
3:DC:83:VAL:HG13	3:DC:206:ALA:HB2	1.61	0.82
1:EA:1059:LYS:HD2	1:EA:1177:SER:HA	1.60	0.82
8:EH:40:LEU:HD13	8:EH:123:MET:HE3	1.60	0.82
1:FA:843:ARG:NH1	2:FB:988:GLU:OE2	2.11	0.82
7:FG:35:SER:OG	7:FG:132:VAL:O	1.95	0.82
2:BB:1060:VAL:HG23	7:BO:314:THR:HG23	1.58	0.82
2:EB:73:ILE:HG13	2:EB:429:ARG:HH22	1.45	0.82
8:EH:53:ASP:HB3	8:EH:55:LEU:HD11	1.60	0.82
1:FA:970:LYS:HG2	1:FA:973:GLU:HG2	1.60	0.82
1:FA:1251:ALA:O	1:FA:1254:PHE:N	2.12	0.82
8:AH:5:LEU:HB2	8:AH:60:ALA:HA	1.62	0.82
12:AL:63:ARG:HG2	12:AL:64:LEU:H	1.42	0.82
3:EC:84:TYR:O	3:EC:204:LEU:HB2	1.80	0.82
7:EG:35:SER:OG	7:EG:132:VAL:O	1.97	0.82
1:FA:120:CYS:HB3	1:FA:189:VAL:HG21	1.62	0.82
5:FE:5:ASN:HD21	5:FE:52:ARG:HH21	1.26	0.82
1:AA:477:ASN:O	2:AB:1091:ARG:NH2	2.12	0.82
11:AK:88:PHE:HB3	11:AK:106:GLN:HB2	1.62	0.82
1:CA:680:LEU:HD21	1:CA:731:ILE:HD12	1.59	0.82
2:CB:850:THR:H	2:CB:882:ILE:HG13	1.42	0.82
2:DB:214:PRO:HB3	2:DB:377:MET:HE3	1.61	0.82
2:EB:520:LEU:HD21	2:EB:530:PRO:HA	1.59	0.82
2:FB:360:VAL:HA	2:FB:370:LYS:HZ1	1.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DN:78:THR:HB	14:DN:89:ILE:HB	1.60	0.82
1:AA:611:GLU:OE1	1:AA:615:ARG:NH1	2.13	0.82
1:BA:1456:PHE:HB3	1:BA:1474:LEU:HD11	1.61	0.82
5:FE:57:MET:SD	5:FE:57:MET:N	2.53	0.82
1:BA:970:LYS:HG2	1:BA:973:GLU:HG2	1.60	0.82
1:DA:1251:ALA:O	1:DA:1254:PHE:N	2.12	0.82
6:EF:110:ASP:N	6:EF:110:ASP:OD1	2.13	0.82
7:EG:248:THR:OG1	7:EG:249:LEU:N	2.06	0.82
1:FA:835:LEU:HG	1:FA:985:ARG:HH12	1.44	0.82
14:AN:78:THR:HB	14:AN:89:ILE:HB	1.62	0.82
1:BA:1059:LYS:HD2	1:BA:1177:SER:HA	1.62	0.82
1:DA:669:LEU:HD12	1:DA:786:TYR:HD1	1.44	0.82
1:FA:1292:ILE:HD11	1:FA:1473:LYS:H	1.42	0.82
2:CB:94:LYS:HB3	2:CB:146:ASN:HA	1.61	0.82
2:DB:804:TYR:HB3	2:DB:904:LYS:HD3	1.59	0.82
1:FA:1276:THR:HG23	1:FA:1288:ARG:HH11	1.43	0.82
1:BA:835:LEU:HG	1:BA:985:ARG:HH12	1.43	0.81
3:BC:126:PHE:HA	3:BC:130:ASN:HD22	1.45	0.81
1:DA:970:LYS:HG2	1:DA:973:GLU:HG2	1.61	0.81
12:FL:47:ARG:HB3	12:FL:54:ARG:HG3	1.62	0.81
1:BA:1033:SER:HB3	6:BF:139:PRO:HG2	1.60	0.81
2:CB:520:LEU:HD21	2:CB:530:PRO:HA	1.61	0.81
7:EG:149:ILE:HG22	7:EG:150:HIS:HD2	1.45	0.81
2:AB:212:ASN:HD21	2:AB:239:VAL:HG22	1.43	0.81
2:AB:929:ARG:NH2	11:AK:97:SER:OG	2.13	0.81
13:BM:40:LEU:HD11	13:BM:51:PHE:HB3	1.62	0.81
8:CH:93:TYR:HA	8:CH:145:ARG:HG3	1.60	0.81
2:DB:651:ARG:NH2	2:DB:690:GLU:OE1	2.13	0.81
1:CA:794:VAL:HG23	1:CA:795:HIS:H	1.43	0.81
1:CA:1246:VAL:HG13	1:CA:1250:GLN:HB3	1.59	0.81
3:AC:100:ARG:O	3:AC:103:LEU:N	2.14	0.81
7:DG:149:ILE:HG22	7:DG:150:HIS:HD2	1.42	0.81
2:FB:1017:ALA:O	3:FC:65:ASN:ND2	2.14	0.81
2:BB:94:LYS:HB3	2:BB:146:ASN:HA	1.60	0.81
2:BB:358:VAL:O	2:BB:370:LYS:NZ	2.14	0.81
2:BB:520:LEU:HD21	2:BB:530:PRO:HA	1.62	0.81
10:BJ:10:CYS:SG	10:BJ:43:ARG:NH1	2.54	0.81
1:AA:715:LEU:HD22	1:AA:716:PRO:HD2	1.61	0.81
7:BG:35:SER:OG	7:BG:132:VAL:O	1.98	0.81
1:EA:1225:ILE:HD13	1:EA:1566:ILE:HG23	1.62	0.81
2:FB:929:ARG:NH2	11:FK:97:SER:OG	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:124:LEU:HD11	1:AA:189:VAL:HG22	1.63	0.81
1:BA:825:ALA:HB1	2:BB:776:ILE:HD11	1.62	0.81
2:BB:655:TYR:HA	2:BB:688:HIS:HD2	1.45	0.81
8:CH:40:LEU:HD13	8:CH:123:MET:HE3	1.63	0.81
3:AC:32:ASN:HB2	3:AC:35:LYS:HE3	1.63	0.81
1:BA:477:ASN:O	2:BB:1091:ARG:NH2	2.14	0.81
6:BF:110:ASP:OD1	6:BF:110:ASP:N	2.14	0.81
14:DN:40:LEU:HA	14:DN:51:GLN:HE22	1.43	0.81
1:BA:124:LEU:HD11	1:BA:189:VAL:HG22	1.63	0.80
3:BC:228:ARG:NH1	14:BN:173:THR:OG1	2.15	0.80
1:EA:818:THR:HG23	2:EB:780:GLY:HA3	1.63	0.80
2:EB:203:ILE:HD13	2:EB:405:GLY:HA3	1.63	0.80
9:EI:109:THR:OG1	9:EI:124:ASN:ND2	2.14	0.80
3:FC:125:LYS:O	3:FC:130:ASN:ND2	2.15	0.80
3:DC:84:TYR:O	3:DC:204:LEU:HB2	1.81	0.80
12:DL:63:ARG:HG2	12:DL:64:LEU:H	1.43	0.80
2:FB:1052:VAL:HA	2:FB:1059:PRO:HA	1.63	0.80
11:FK:112:THR:N	11:FK:115:ASP:OD2	2.13	0.80
1:EA:120:CYS:HB3	1:EA:189:VAL:HG21	1.63	0.80
3:FC:103:LEU:O	10:FJ:6:ARG:NH2	2.13	0.80
1:CA:477:ASN:OD1	2:CB:1047:ARG:NH1	2.14	0.80
3:EC:126:PHE:HA	3:EC:130:ASN:HD22	1.45	0.80
7:AG:159:LYS:HZ2	7:BO:278:ILE:HB	1.46	0.80
13:AM:40:LEU:HD11	13:AM:51:PHE:HB3	1.63	0.80
14:BN:78:THR:HB	14:BN:89:ILE:HB	1.64	0.80
3:FC:83:VAL:HG13	3:FC:206:ALA:HB2	1.63	0.80
8:FH:5:LEU:HB2	8:FH:60:ALA:HA	1.63	0.80
1:AA:1513:GLU:O	1:AA:1515:GLY:N	2.15	0.80
11:AK:54:THR:HG22	11:AK:61:ALA:HA	1.62	0.80
2:DB:520:LEU:HD21	2:DB:530:PRO:HA	1.63	0.80
1:FA:611:GLU:OE1	1:FA:615:ARG:NH1	2.14	0.80
8:AH:55:LEU:HD23	8:AH:146:ARG:HG2	1.64	0.80
1:BA:1617:THR:HB	1:BA:1620:GLN:HG2	1.64	0.80
2:AB:1041:ASN:O	2:AB:1043:LYS:N	2.15	0.80
3:EC:228:ARG:NH1	14:EN:173:THR:OG1	2.15	0.80
8:FH:55:LEU:HD23	8:FH:146:ARG:HG2	1.62	0.80
7:BG:248:THR:OG1	7:BG:249:LEU:N	2.07	0.80
1:DA:1276:THR:HG23	1:DA:1288:ARG:HH11	1.47	0.80
1:EA:966:LEU:HG	1:EA:968:SER:H	1.45	0.80
6:AF:110:ASP:OD1	6:AF:110:ASP:N	2.13	0.80
1:BA:1251:ALA:O	1:BA:1254:PHE:N	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1292:ILE:HD11	1:CA:1473:LYS:H	1.46	0.80
5:CE:41:ASP:OD1	5:CE:41:ASP:N	2.15	0.80
1:DA:120:CYS:HB3	1:DA:189:VAL:HG21	1.64	0.80
2:DB:1041:ASN:O	2:DB:1043:LYS:N	2.15	0.80
1:EA:477:ASN:OD1	2:EB:1047:ARG:NH1	2.14	0.80
1:EA:964:LYS:NZ	2:EB:672:MET:O	2.15	0.80
1:AA:76:GLN:HE22	2:AB:1111:LEU:HD12	1.46	0.79
2:AB:161:LEU:HD12	2:AB:162:PRO:HD2	1.64	0.79
1:CA:835:LEU:HG	1:CA:985:ARG:HH12	1.47	0.79
7:DG:35:SER:OG	7:DG:132:VAL:O	2.01	0.79
1:FA:1305:GLU:HG3	9:FI:60:LEU:HG	1.64	0.79
3:AC:83:VAL:HG13	3:AC:206:ALA:HB2	1.63	0.79
8:BH:40:LEU:HD13	8:BH:123:MET:HE3	1.62	0.79
3:CC:69:ARG:O	3:CC:73:SER:OG	2.00	0.79
1:EA:467:PHE:HA	1:EA:471:MET:HE3	1.63	0.79
1:AA:825:ALA:HB1	2:AB:776:ILE:HD11	1.64	0.79
11:CK:54:THR:HG22	11:CK:61:ALA:HA	1.65	0.79
1:DA:560:GLN:O	1:DA:575:LYS:NZ	2.14	0.79
2:DB:132:SER:HB2	2:DB:134:ARG:HD3	1.64	0.79
2:EB:893:ASN:O	2:EB:895:PHE:N	2.15	0.79
1:BA:76:GLN:HE22	2:BB:1111:LEU:HD12	1.47	0.79
2:CB:885:VAL:HG11	12:CL:58:LYS:HB3	1.64	0.79
2:CB:897:GLU:HB3	12:CL:43:THR:HG23	1.62	0.79
7:CG:40:ARG:NH1	7:CG:123:TYR:OH	2.15	0.79
7:DO:301:LYS:HA	7:DO:307:GLU:HA	1.65	0.79
1:EA:936:SER:HB2	9:EI:112:TYR:OH	1.81	0.79
3:FC:84:TYR:O	3:FC:204:LEU:HB2	1.82	0.79
2:CB:811:LEU:HD13	2:CB:823:GLN:HE21	1.48	0.79
13:DM:32:ALA:HB3	14:DN:121:ILE:HD11	1.64	0.79
3:FC:69:ARG:O	3:FC:73:SER:OG	1.99	0.79
6:FF:110:ASP:N	6:FF:110:ASP:OD1	2.15	0.79
1:AA:970:LYS:HG2	1:AA:973:GLU:HG2	1.62	0.79
2:BB:850:THR:H	2:BB:882:ILE:HG13	1.46	0.79
8:CH:55:LEU:HD23	8:CH:146:ARG:HG2	1.65	0.79
11:DK:88:PHE:HB3	11:DK:106:GLN:HB2	1.65	0.79
3:EC:83:VAL:HG13	3:EC:206:ALA:HB2	1.64	0.79
3:EC:125:LYS:O	3:EC:130:ASN:ND2	2.16	0.79
7:EG:153:PHE:HB3	7:EG:243:VAL:HG21	1.63	0.79
10:FJ:10:CYS:SG	10:FJ:43:ARG:NH1	2.55	0.79
1:AA:835:LEU:HG	1:AA:985:ARG:HH12	1.46	0.79
1:BA:794:VAL:HG23	1:BA:795:HIS:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1657:LEU:HD11	6:FF:135:ARG:HB2	1.65	0.79
3:AC:69:ARG:O	3:AC:73:SER:OG	2.00	0.79
12:AL:47:ARG:HB3	12:AL:54:ARG:HG3	1.65	0.79
14:DN:93:THR:HG23	14:DN:99:LEU:HD11	1.64	0.79
1:EA:956:ARG:HE	1:EA:979:GLY:HA3	1.48	0.79
5:BE:5:ASN:HD21	5:BE:52:ARG:HH21	1.30	0.79
8:CH:5:LEU:HD22	8:CH:135:LEU:HD23	1.63	0.79
1:FA:966:LEU:HG	1:FA:968:SER:H	1.48	0.79
2:FB:203:ILE:HD13	2:FB:405:GLY:HA3	1.64	0.79
2:BB:970:LYS:NZ	2:BB:1011:GLU:OE2	2.13	0.78
3:EC:103:LEU:O	10:EJ:6:ARG:NH2	2.15	0.78
2:AB:804:TYR:HB3	2:AB:904:LYS:HD3	1.65	0.78
1:CA:699:CYS:SG	1:CA:700:ILE:N	2.56	0.78
5:DE:136:ASN:OD1	5:DE:138:ALA:N	2.16	0.78
13:DM:12:ILE:HG21	14:DN:68:LYS:HA	1.65	0.78
1:EA:124:LEU:HD11	1:EA:189:VAL:HG22	1.64	0.78
2:FB:132:SER:HB2	2:FB:134:ARG:HD3	1.66	0.78
3:AC:84:TYR:O	3:AC:204:LEU:HB2	1.82	0.78
3:BC:84:TYR:O	3:BC:204:LEU:HB2	1.83	0.78
2:DB:929:ARG:NH2	11:DK:97:SER:OG	2.16	0.78
1:AA:1484:LEU:HG	2:AB:308:LEU:HD11	1.66	0.78
2:AB:935:ASP:OD1	3:AC:69:ARG:NH2	2.16	0.78
2:CB:73:ILE:HG13	2:CB:429:ARG:HH22	1.49	0.78
2:CB:612:LYS:NZ	2:CB:624:LEU:O	2.16	0.78
1:DA:524:ILE:O	1:DA:554:ARG:NH1	2.16	0.78
2:DB:94:LYS:HB3	2:DB:146:ASN:HA	1.65	0.78
2:FB:848:ILE:HD11	12:FL:58:LYS:HD3	1.64	0.78
7:FG:45:LEU:HD11	7:FG:118:CYS:HB2	1.65	0.78
1:AA:1456:PHE:HB3	1:AA:1474:LEU:HD11	1.64	0.78
2:DB:1052:VAL:HA	2:DB:1059:PRO:HA	1.65	0.78
3:EC:32:ASN:HB2	3:EC:35:LYS:HE3	1.64	0.78
1:FA:1225:ILE:HD13	1:FA:1566:ILE:HG23	1.64	0.78
7:CG:43:ILE:HD11	7:CG:120:VAL:HG12	1.64	0.78
5:FE:198:ILE:HD11	5:FE:212:ARG:HG2	1.65	0.78
1:AA:211:THR:HB	5:AE:173:SER:HB2	1.65	0.78
1:EA:1292:ILE:HD11	1:EA:1473:LYS:H	1.47	0.78
1:FA:11:ILE:HG21	2:FB:1198:TYR:HB2	1.65	0.78
1:FA:1202:LEU:HD13	9:FI:99:LEU:HD13	1.65	0.78
3:FC:228:ARG:NH1	14:FN:173:THR:OG1	2.16	0.78
1:AA:680:LEU:HD21	1:AA:731:ILE:HD12	1.65	0.78
1:AA:1292:ILE:HD11	1:AA:1473:LYS:H	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1344:ILE:HG22	2:AB:334:PHE:HE2	1.47	0.78
2:CB:651:ARG:NH2	2:CB:690:GLU:OE1	2.16	0.78
2:BB:396:ALA:HB1	2:BB:523:GLU:HG3	1.66	0.78
1:EA:1246:VAL:HG13	1:EA:1250:GLN:HB3	1.64	0.78
2:EB:94:LYS:HB3	2:EB:146:ASN:HA	1.66	0.78
2:EB:655:TYR:HA	2:EB:688:HIS:HD2	1.47	0.78
1:FA:825:ALA:HB1	2:FB:776:ILE:HD11	1.63	0.78
2:CB:848:ILE:HG13	12:CL:60:ARG:HA	1.66	0.78
1:FA:124:LEU:HD11	1:FA:189:VAL:HG22	1.65	0.78
7:BG:153:PHE:HB3	7:BG:243:VAL:HG21	1.64	0.77
1:CA:1657:LEU:HD11	6:CF:135:ARG:HB2	1.66	0.77
3:EC:135:SER:HA	3:EC:205:LYS:HA	1.65	0.77
8:FH:93:TYR:HA	8:FH:145:ARG:HG3	1.65	0.77
2:AB:132:SER:HB2	2:AB:134:ARG:HD3	1.64	0.77
1:BA:120:CYS:HB3	1:BA:189:VAL:HG21	1.66	0.77
3:CC:83:VAL:HG13	3:CC:206:ALA:HB2	1.63	0.77
2:BB:1041:ASN:O	2:BB:1043:LYS:N	2.18	0.77
2:BB:1052:VAL:HA	2:BB:1059:PRO:HA	1.65	0.77
2:CB:138:LEU:HD22	2:CB:157:ASP:HA	1.64	0.77
5:FE:136:ASN:OD1	5:FE:138:ALA:N	2.16	0.77
1:BA:830:MET:HE1	2:BB:963:PHE:HB3	1.65	0.77
12:CL:63:ARG:HG2	12:CL:64:LEU:H	1.50	0.77
2:DB:161:LEU:HD12	2:DB:162:PRO:HD2	1.66	0.77
1:EA:669:LEU:HD12	1:EA:786:TYR:HD1	1.48	0.77
14:FN:87:TYR:HB3	14:FN:139:VAL:HG12	1.67	0.77
7:AG:105:ILE:HG12	7:AG:116:THR:HB	1.66	0.77
1:DA:124:LEU:HD11	1:DA:189:VAL:HG22	1.67	0.77
8:DH:93:TYR:HA	8:DH:145:ARG:HG3	1.66	0.77
1:DA:966:LEU:HG	1:DA:968:SER:H	1.48	0.77
1:DA:1617:THR:HB	1:DA:1620:GLN:HG2	1.67	0.77
13:DM:40:LEU:HD11	13:DM:51:PHE:HB3	1.67	0.77
2:FB:1041:ASN:O	2:FB:1043:LYS:N	2.17	0.77
2:AB:1052:VAL:HA	2:AB:1059:PRO:HA	1.65	0.77
2:EB:533:THR:OG1	2:EB:542:LEU:O	2.01	0.77
1:AA:422:ARG:HD3	7:AO:272:ILE:HG13	1.66	0.77
1:BA:669:LEU:HD12	1:BA:786:TYR:HD1	1.50	0.77
2:BB:1110:ILE:H	2:BB:1111:LEU:HD23	1.49	0.77
2:DB:12:ARG:HH22	2:DB:17:ARG:HH22	1.33	0.77
5:DE:6:GLU:HA	5:DE:9:ILE:HB	1.66	0.77
1:FA:964:LYS:HZ1	1:FA:967:PRO:HA	1.49	0.77
1:FA:1553:TYR:HD1	5:FE:144:ILE:HB	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DG:153:PHE:HB3	7:DG:243:VAL:HG21	1.67	0.77
1:EA:809:VAL:O	1:EA:813:LEU:HG	1.84	0.77
2:EB:397:THR:HB	2:EB:666:PRO:HB3	1.65	0.77
2:FB:127:ARG:NH1	2:FB:185:GLU:OE2	2.18	0.77
2:FB:397:THR:HB	2:FB:666:PRO:HB3	1.66	0.77
12:FL:34:CYS:CB	12:FL:51:CYS:SG	2.67	0.77
2:BB:162:PRO:HG3	2:BB:462:GLN:HG3	1.67	0.76
2:BB:203:ILE:HD13	2:BB:405:GLY:HA3	1.65	0.76
13:CM:12:ILE:HG21	14:CN:68:LYS:HA	1.67	0.76
7:CO:274:SER:OG	7:CO:275:ASN:OD1	2.03	0.76
3:EC:100:ARG:O	3:EC:103:LEU:N	2.17	0.76
1:FA:956:ARG:HE	1:FA:979:GLY:HA3	1.51	0.76
1:CA:966:LEU:HG	1:CA:968:SER:H	1.50	0.76
2:DB:728:THR:OG1	2:DB:766:PRO:O	2.04	0.76
8:DH:40:LEU:HD13	8:DH:123:MET:HE3	1.66	0.76
3:EC:328:LEU:HB3	11:EK:121:LEU:HD11	1.66	0.76
2:FB:884:GLU:O	2:FB:903:ILE:HG22	1.86	0.76
2:FB:885:VAL:HG11	12:FL:58:LYS:HB3	1.67	0.76
5:FE:6:GLU:HA	5:FE:9:ILE:HB	1.67	0.76
11:BK:88:PHE:HB3	11:BK:106:GLN:HB2	1.67	0.76
1:CA:1202:LEU:HD13	9:CI:99:LEU:HD13	1.68	0.76
2:EB:929:ARG:NH2	11:EK:97:SER:OG	2.17	0.76
1:FA:1513:GLU:O	1:FA:1515:GLY:N	2.18	0.76
2:FB:811:LEU:HD13	2:FB:823:GLN:HE21	1.50	0.76
1:AA:477:ASN:OD1	2:AB:1047:ARG:NH1	2.18	0.76
2:AB:588:ILE:O	2:AB:591:LYS:HG2	1.84	0.76
1:BA:467:PHE:HA	1:BA:471:MET:HE3	1.66	0.76
1:BA:966:LEU:HG	1:BA:968:SER:H	1.50	0.76
1:BA:1050:TYR:HB3	1:BA:1054:ALA:HA	1.65	0.76
3:DC:69:ARG:O	3:DC:73:SER:OG	2.02	0.76
7:EG:43:ILE:HD11	7:EG:120:VAL:HG12	1.66	0.76
9:EI:86:CYS:SG	9:EI:94:MET:HE3	2.26	0.76
1:FA:818:THR:HG23	2:FB:780:GLY:HA3	1.68	0.76
1:AA:1657:LEU:HD11	6:AF:135:ARG:HB2	1.66	0.76
1:BA:1287:ALA:HB1	1:BA:1478:ALA:HB2	1.67	0.76
1:EA:856:GLU:OE1	1:EA:857:ALA:N	2.19	0.76
3:EC:174:ARG:O	3:EC:178:THR:OG1	2.02	0.76
2:FB:655:TYR:HA	2:FB:688:HIS:CD2	2.19	0.76
7:FO:277:LYS:NZ	7:FO:281:ASP:OD2	2.15	0.76
2:AB:127:ARG:NH1	2:AB:185:GLU:OE2	2.19	0.76
1:BA:1513:GLU:O	1:BA:1515:GLY:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:964:LYS:HZ1	1:CA:967:PRO:HA	1.49	0.76
3:CC:125:LYS:O	3:CC:130:ASN:ND2	2.18	0.76
1:EA:1050:TYR:HB3	1:EA:1054:ALA:HA	1.68	0.76
5:EE:6:GLU:HA	5:EE:9:ILE:HB	1.68	0.76
2:EB:651:ARG:NH2	2:EB:690:GLU:OE1	2.18	0.76
2:AB:884:GLU:O	2:AB:903:ILE:HG22	1.85	0.76
3:BC:69:ARG:O	3:BC:73:SER:OG	2.03	0.76
1:CA:809:VAL:O	1:CA:813:LEU:HG	1.85	0.76
4:CD:22:ILE:O	7:CG:76:LYS:NZ	2.19	0.76
13:CM:15:VAL:HG22	13:CM:90:LEU:HD12	1.68	0.76
1:DA:512:THR:OG1	1:DA:513:ALA:N	2.13	0.76
3:AC:45:SER:OG	3:AC:271:ARG:NH2	2.19	0.76
2:CB:848:ILE:HD11	12:CL:58:LYS:HD3	1.68	0.76
1:DA:1474:LEU:HD13	1:DA:1475:GLU:H	1.51	0.76
8:EH:55:LEU:HD23	8:EH:146:ARG:HG2	1.66	0.76
1:AA:964:LYS:HZ1	1:AA:967:PRO:HA	1.49	0.76
8:BH:55:LEU:HD23	8:BH:146:ARG:HG2	1.66	0.76
1:FA:830:MET:HE1	2:FB:963:PHE:HB3	1.67	0.76
2:FB:161:LEU:HD12	2:FB:162:PRO:HD2	1.68	0.76
9:FI:109:THR:OG1	9:FI:124:ASN:ND2	2.19	0.76
14:FN:40:LEU:HD12	14:FN:41:ASN:H	1.48	0.76
2:BB:73:ILE:HG13	2:BB:429:ARG:HH22	1.51	0.75
1:FA:477:ASN:O	2:FB:1091:ARG:NH2	2.20	0.75
1:AA:966:LEU:HG	1:AA:968:SER:H	1.51	0.75
1:DA:467:PHE:HA	1:DA:471:MET:HE3	1.68	0.75
1:EA:194:ALA:O	1:EA:198:SER:OG	2.04	0.75
2:EB:467:THR:HB	2:EB:469:ASN:HD22	1.51	0.75
2:EB:970:LYS:NZ	2:EB:1011:GLU:OE2	2.16	0.75
11:FK:54:THR:HG22	11:FK:61:ALA:HA	1.68	0.75
1:AA:395:LEU:HD13	7:AO:276:LYS:HB2	1.67	0.75
5:AE:6:GLU:HA	5:AE:9:ILE:HB	1.67	0.75
7:AG:45:LEU:HD11	7:AG:118:CYS:HB2	1.69	0.75
1:CA:1305:GLU:HG3	9:CI:60:LEU:HG	1.66	0.75
1:DA:1513:GLU:O	1:DA:1515:GLY:N	2.19	0.75
1:FA:399:LEU:HD11	7:FO:270:LEU:HB3	1.68	0.75
1:FA:560:GLN:O	1:FA:575:LYS:NZ	2.15	0.75
3:FC:126:PHE:HA	3:FC:130:ASN:HD22	1.51	0.75
13:FM:40:LEU:HD11	13:FM:51:PHE:HB3	1.66	0.75
1:AA:422:ARG:NH1	7:AO:270:LEU:O	2.19	0.75
1:AA:1251:ALA:O	1:AA:1254:PHE:N	2.17	0.75
1:EA:209:THR:HG21	5:EE:174:GLN:HG3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:FL:34:CYS:SG	12:FL:36:SER:OG	2.44	0.75
1:CA:611:GLU:OE1	1:CA:615:ARG:NH1	2.20	0.75
5:CE:136:ASN:OD1	5:CE:138:ALA:N	2.19	0.75
7:EO:272:ILE:HD13	7:EO:275:ASN:H	1.51	0.75
1:FA:1484:LEU:HG	2:FB:308:LEU:HD11	1.66	0.75
2:AB:651:ARG:NH2	2:AB:690:GLU:OE1	2.20	0.75
2:CB:674:ILE:HG23	2:CB:688:HIS:HB2	1.69	0.75
2:DB:73:ILE:HG13	2:DB:429:ARG:HH22	1.52	0.75
2:EB:22:GLU:OE2	10:EJ:55:ASP:N	2.17	0.75
2:FB:788:ILE:HB	2:FB:948:ILE:HB	1.68	0.75
1:CA:97:TYR:O	1:CA:101:SER:OG	2.05	0.75
1:CA:1028:GLU:HA	1:CA:1187:ILE:HG12	1.68	0.75
2:DB:674:ILE:HG23	2:DB:688:HIS:HB2	1.69	0.75
5:DE:54:GLN:HB2	5:DE:57:MET:HE1	1.68	0.75
7:FG:153:PHE:HB3	7:FG:243:VAL:HG21	1.68	0.75
2:CB:467:THR:HB	2:CB:469:ASN:HD22	1.52	0.75
13:CM:40:LEU:HD11	13:CM:51:PHE:HB3	1.67	0.75
1:DA:835:LEU:HG	1:DA:985:ARG:HH12	1.51	0.75
11:DK:89:CYS:SG	11:DK:90:GLY:N	2.60	0.75
2:EB:1041:ASN:O	2:EB:1043:LYS:N	2.20	0.75
13:EM:38:PHE:HB3	13:EM:53:LEU:HD11	1.69	0.75
2:BB:161:LEU:HD12	2:BB:162:PRO:HD2	1.67	0.75
3:BC:329:LYS:HD2	11:BK:122:LYS:HE2	1.68	0.75
3:CC:126:PHE:HA	3:CC:130:ASN:ND2	2.01	0.75
5:BE:6:GLU:HA	5:BE:9:ILE:HB	1.68	0.74
13:BM:10:ILE:HD11	14:BN:72:VAL:HB	1.68	0.74
2:CB:1052:VAL:HA	2:CB:1059:PRO:HA	1.67	0.74
5:CE:175:LEU:HD13	5:CE:176:PRO:HD2	1.69	0.74
7:CG:89:ILE:HA	7:CG:118:CYS:SG	2.27	0.74
1:FA:1050:TYR:HB3	1:FA:1054:ALA:HA	1.69	0.74
2:CB:884:GLU:O	2:CB:903:ILE:HG22	1.85	0.74
9:CI:13:CYS:SG	9:CI:14:GLY:N	2.60	0.74
2:DB:970:LYS:NZ	2:DB:1011:GLU:OE2	2.15	0.74
2:DB:1017:ALA:O	3:DC:65:ASN:ND2	2.20	0.74
6:DF:110:ASP:OD1	6:DF:110:ASP:N	2.19	0.74
13:DM:10:ILE:HD11	14:DN:72:VAL:HB	1.67	0.74
1:EA:30:LYS:NZ	1:EA:51:ASP:OD2	2.18	0.74
1:EA:709:ARG:O	1:EA:711:LYS:N	2.18	0.74
2:EB:138:LEU:HD22	2:EB:157:ASP:HA	1.66	0.74
11:EK:54:THR:HG22	11:EK:61:ALA:HA	1.69	0.74
2:FB:588:ILE:O	2:FB:591:LYS:HG2	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:934:ILE:HG21	3:AC:73:SER:HB3	1.70	0.74
8:AH:5:LEU:HD22	8:AH:135:LEU:HD23	1.69	0.74
14:AN:87:TYR:HB3	14:AN:139:VAL:HG12	1.68	0.74
1:BA:611:GLU:OE1	1:BA:615:ARG:NH1	2.20	0.74
1:DA:141:LEU:HG	1:DA:142:GLY:H	1.52	0.74
2:DB:884:GLU:O	2:DB:903:ILE:HG22	1.85	0.74
2:FB:520:LEU:HD21	2:FB:530:PRO:HA	1.68	0.74
2:AB:970:LYS:NZ	2:AB:1011:GLU:OE2	2.14	0.74
5:AE:93:MET:HG2	5:AE:120:ALA:HB1	1.69	0.74
1:CA:964:LYS:NZ	2:CB:672:MET:O	2.19	0.74
12:CL:34:CYS:CB	12:CL:51:CYS:SG	2.62	0.74
2:DB:203:ILE:HD13	2:DB:405:GLY:HA3	1.70	0.74
13:DM:80:LEU:HD21	14:DN:40:LEU:HD12	1.70	0.74
8:EH:5:LEU:HD22	8:EH:135:LEU:HD23	1.69	0.74
1:FA:509:GLU:OE1	1:FA:584:ARG:NH1	2.21	0.74
3:AC:197:ARG:HG2	10:AJ:61:LEU:HD22	1.69	0.74
1:CA:620:ASN:OD1	1:CA:667:ARG:NH2	2.20	0.74
7:DG:45:LEU:HD11	7:DG:118:CYS:HB2	1.69	0.74
1:FA:809:VAL:O	1:FA:813:LEU:HG	1.87	0.74
2:BB:397:THR:HB	2:BB:666:PRO:HB3	1.69	0.74
1:CA:1050:TYR:HB3	1:CA:1054:ALA:HA	1.66	0.74
1:EA:745:PRO:HG2	1:EA:1075:ALA:HB2	1.69	0.74
1:AA:1246:VAL:HG13	1:AA:1250:GLN:HB3	1.68	0.74
2:AB:567:SER:HB2	14:AN:59:PRO:HB3	1.68	0.74
3:AC:126:PHE:HA	3:AC:130:ASN:HD22	1.51	0.74
3:BC:103:LEU:O	10:BJ:6:ARG:NH2	2.20	0.74
3:BC:135:SER:HA	3:BC:205:LYS:HA	1.70	0.74
12:BL:53:HIS:O	12:BL:55:ILE:N	2.17	0.74
1:DA:1553:TYR:HD1	5:DE:144:ILE:HB	1.51	0.74
5:DE:175:LEU:HD13	5:DE:176:PRO:HD2	1.70	0.74
1:FA:1252:ASP:HA	1:FA:1255:CYS:SG	2.28	0.74
2:DB:212:ASN:OD1	2:DB:212:ASN:N	2.17	0.74
2:EB:567:SER:HB2	14:EN:59:PRO:HB3	1.70	0.74
10:EJ:10:CYS:SG	10:EJ:43:ARG:NH1	2.61	0.74
1:FA:669:LEU:HD12	1:FA:786:TYR:HD1	1.52	0.74
5:FE:175:LEU:HD13	5:FE:176:PRO:HD2	1.70	0.74
8:FH:118:PHE:HB2	8:FH:121:LEU:HB2	1.70	0.74
11:FK:89:CYS:SG	11:FK:90:GLY:N	2.60	0.74
1:AA:1557:ALA:HB2	5:AE:150:VAL:HG22	1.68	0.74
1:CA:1617:THR:HB	1:CA:1620:GLN:HG2	1.70	0.74
2:EB:884:GLU:O	2:EB:903:ILE:HG22	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:EN:87:TYR:HB3	14:EN:139:VAL:HG12	1.70	0.74
1:AA:194:ALA:O	1:AA:198:SER:OG	2.06	0.74
2:CB:1041:ASN:O	2:CB:1043:LYS:N	2.21	0.74
2:BB:138:LEU:HD22	2:BB:157:ASP:HA	1.70	0.73
1:CA:113:VAL:HG13	1:CA:182:LYS:HG3	1.70	0.73
1:DA:1028:GLU:HA	1:DA:1187:ILE:HG12	1.69	0.73
2:AB:152:LEU:HD13	2:AB:443:LYS:HG3	1.69	0.73
2:AB:203:ILE:HD13	2:AB:405:GLY:HA3	1.68	0.73
5:AE:198:ILE:HD11	5:AE:212:ARG:HG2	1.68	0.73
1:BA:1474:LEU:HD13	1:BA:1475:GLU:H	1.52	0.73
5:BE:57:MET:SD	5:BE:57:MET:N	2.57	0.73
1:CA:124:LEU:HD11	1:CA:189:VAL:HG22	1.70	0.73
2:CB:152:LEU:HD13	2:CB:443:LYS:HG3	1.68	0.73
2:DB:213:HIS:HB2	2:DB:643:PHE:CZ	2.22	0.73
3:DC:100:ARG:O	3:DC:103:LEU:N	2.18	0.73
8:DH:55:LEU:HD23	8:DH:146:ARG:HG2	1.70	0.73
13:EM:10:ILE:HD11	14:EN:72:VAL:HB	1.70	0.73
1:FA:1261:VAL:HG12	1:FA:1498:ILE:HD12	1.68	0.73
2:FB:1047:ARG:NH2	2:FB:1051:PRO:O	2.21	0.73
12:FL:63:ARG:HG2	12:FL:64:LEU:H	1.53	0.73
1:AA:1050:TYR:HB3	1:AA:1054:ALA:HA	1.69	0.73
1:AA:1474:LEU:HD13	1:AA:1475:GLU:H	1.54	0.73
2:AB:396:ALA:HB1	2:AB:523:GLU:HG3	1.71	0.73
1:BA:40:ASN:N	1:BA:40:ASN:OD1	2.21	0.73
11:BK:89:CYS:SG	11:BK:90:GLY:N	2.61	0.73
1:CA:1276:THR:HG23	1:CA:1288:ARG:HH11	1.53	0.73
9:CI:86:CYS:SG	9:CI:94:MET:HE3	2.29	0.73
1:EA:835:LEU:HG	1:EA:985:ARG:HH12	1.51	0.73
2:FB:651:ARG:NH2	2:FB:690:GLU:OE1	2.21	0.73
1:AA:467:PHE:HA	1:AA:471:MET:HE3	1.69	0.73
1:AA:1261:VAL:HG12	1:AA:1498:ILE:HD12	1.70	0.73
1:BA:908:VAL:HG11	9:BI:82:ILE:HG13	1.71	0.73
12:BL:63:ARG:HG2	12:BL:64:LEU:H	1.54	0.73
7:CO:270:LEU:HG	7:CO:271:PRO:HD2	1.70	0.73
1:FA:1474:LEU:HD13	1:FA:1475:GLU:H	1.52	0.73
1:AA:1237:GLN:H	1:AA:1544:ASN:HB3	1.54	0.73
13:AM:15:VAL:HG22	13:AM:90:LEU:HD12	1.69	0.73
13:BM:38:PHE:HB3	13:BM:53:LEU:HD11	1.70	0.73
2:DB:130:LEU:HD22	2:DB:198:GLY:HA3	1.70	0.73
1:EA:1263:LEU:HB2	1:EA:1496:SER:HB2	1.70	0.73
1:FA:1264:SER:O	9:FI:56:PHE:HB3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:153:HIS:CD2	5:FE:184:VAL:HG11	2.22	0.73
10:AJ:7:CYS:SG	10:AJ:8:PHE:N	2.61	0.73
1:BA:97:TYR:O	1:BA:101:SER:OG	2.06	0.73
2:BB:651:ARG:NH2	2:BB:690:GLU:OE1	2.22	0.73
1:CA:76:GLN:HE22	2:CB:1111:LEU:HD12	1.54	0.73
1:CA:856:GLU:OE1	1:CA:857:ALA:N	2.21	0.73
3:CC:197:ARG:HG2	10:CJ:61:LEU:HD22	1.71	0.73
7:CG:45:LEU:HD11	7:CG:118:CYS:HB2	1.68	0.73
3:DC:103:LEU:O	10:DJ:6:ARG:NH2	2.21	0.73
1:EA:729:LYS:HD2	8:EH:120:GLY:HA3	1.70	0.73
5:BE:136:ASN:OD1	5:BE:138:ALA:N	2.22	0.73
1:CA:509:GLU:OE1	1:CA:584:ARG:NH1	2.21	0.73
2:CB:75:ASP:OD2	2:CB:93:ASN:ND2	2.21	0.73
1:DA:1050:TYR:HB3	1:DA:1054:ALA:HA	1.68	0.73
3:DC:126:PHE:HA	3:DC:130:ASN:ND2	2.02	0.73
2:EB:749:THR:OG1	2:EB:763:ASP:OD1	2.06	0.73
2:EB:753:LYS:O	2:EB:981:SER:OG	2.05	0.73
1:FA:641:GLU:HB2	6:FF:99:LEU:HD22	1.71	0.73
2:FB:714:ARG:HG3	2:FB:922:GLY:HA3	1.71	0.73
2:FB:776:ILE:HB	2:FB:1026:ILE:HD13	1.71	0.73
2:AB:397:THR:HB	2:AB:666:PRO:HB3	1.71	0.73
2:BB:212:ASN:OD1	2:BB:212:ASN:N	2.22	0.73
2:DB:751:ILE:HG12	2:DB:969:GLY:HA2	1.71	0.73
2:FB:109:SER:OG	2:FB:110:ASN:N	2.21	0.73
2:FB:533:THR:OG1	2:FB:542:LEU:O	2.05	0.73
1:CA:1293:HIS:HE1	1:CA:1469:TRP:HB2	1.54	0.73
2:EB:788:ILE:HB	2:EB:948:ILE:HB	1.70	0.73
11:EK:88:PHE:HB3	11:EK:106:GLN:HB2	1.69	0.73
2:BB:1002:LYS:NZ	14:BN:166:LEU:HD13	2.03	0.73
3:CC:136:LEU:O	3:CC:203:SER:HA	1.89	0.73
1:EA:611:GLU:OE1	1:EA:615:ARG:NH1	2.22	0.73
2:EB:751:ILE:HG12	2:EB:969:GLY:HA2	1.69	0.73
1:BA:512:THR:OG1	1:BA:513:ALA:N	2.17	0.72
1:FA:40:ASN:OD1	1:FA:40:ASN:N	2.21	0.72
1:FA:680:LEU:HD21	1:FA:731:ILE:HD12	1.71	0.72
1:FA:850:SER:O	1:FA:852:ASP:N	2.22	0.72
2:FB:152:LEU:HD13	2:FB:443:LYS:HG3	1.70	0.72
2:FB:834:LYS:C	2:FB:836:TRP:H	1.95	0.72
2:AB:73:ILE:HG13	2:AB:429:ARG:HH22	1.54	0.72
8:AH:95:TYR:HD2	8:AH:144:ILE:HD13	1.55	0.72
2:BB:109:SER:OG	2:BB:110:ASN:N	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:73:ILE:HD13	2:CB:74:PHE:H	1.54	0.72
3:CC:135:SER:HA	3:CC:205:LYS:HA	1.71	0.72
1:DA:1033:SER:HB3	6:DF:139:PRO:HG2	1.69	0.72
3:EC:164:ALA:HB2	3:EC:191:ILE:HB	1.71	0.72
7:BG:237:HIS:HB2	7:BG:244:SER:HB3	1.71	0.72
1:CA:1261:VAL:HG12	1:CA:1498:ILE:HD12	1.71	0.72
1:CA:1263:LEU:HB2	1:CA:1496:SER:HB2	1.72	0.72
1:DA:38:LEU:HD12	7:DO:291:SER:HB3	1.71	0.72
2:FB:804:TYR:HB3	2:FB:904:LYS:HD3	1.72	0.72
3:AC:125:LYS:O	3:AC:130:ASN:ND2	2.23	0.72
1:CA:1470:CYS:SG	1:CA:1471:GLU:N	2.62	0.72
8:DH:5:LEU:HD22	8:DH:135:LEU:HD23	1.71	0.72
1:EA:699:CYS:SG	1:EA:700:ILE:N	2.63	0.72
2:EB:623:ASP:HA	2:EB:663:ILE:HG21	1.71	0.72
7:EO:266:GLN:O	7:EO:268:GLU:N	2.23	0.72
2:BB:73:ILE:HD13	2:BB:74:PHE:H	1.54	0.72
1:DA:968:SER:CB	2:DB:676:VAL:HG23	2.20	0.72
2:DB:397:THR:HB	2:DB:666:PRO:HB3	1.71	0.72
3:DC:228:ARG:NH1	14:DN:173:THR:OG1	2.20	0.72
2:EB:229:TYR:HA	2:EB:253:LEU:HD22	1.72	0.72
1:FA:1264:SER:HB3	9:FI:56:PHE:CD1	2.24	0.72
2:FB:888:ILE:HG13	12:FL:54:ARG:O	1.89	0.72
2:AB:212:ASN:N	2:AB:212:ASN:OD1	2.23	0.72
1:BA:729:LYS:HD2	8:BH:120:GLY:HA3	1.70	0.72
2:BB:884:GLU:O	2:BB:903:ILE:HG22	1.88	0.72
12:DL:47:ARG:HB3	12:DL:54:ARG:HG3	1.71	0.72
1:EA:532:GLY:O	1:EA:580:HIS:N	2.16	0.72
1:EA:715:LEU:HD22	1:EA:716:PRO:HD2	1.71	0.72
2:EB:699:ILE:HD13	2:EB:699:ILE:H	1.54	0.72
5:EE:5:ASN:HD21	5:EE:52:ARG:HH21	1.36	0.72
1:FA:467:PHE:HA	1:FA:471:MET:HE3	1.72	0.72
1:FA:709:ARG:O	1:FA:711:LYS:N	2.21	0.72
1:AA:1009:THR:HG21	9:AI:101:LEU:HD23	1.72	0.72
1:AA:1202:LEU:HD11	9:AI:101:LEU:HD11	1.70	0.72
2:AB:73:ILE:HD13	2:AB:74:PHE:H	1.54	0.72
2:BB:935:ASP:OD1	3:BC:69:ARG:NH2	2.23	0.72
2:CB:229:TYR:HA	2:CB:253:LEU:HD22	1.70	0.72
2:DB:834:LYS:C	2:DB:836:TRP:H	1.97	0.72
3:EC:126:PHE:HA	3:EC:130:ASN:ND2	2.04	0.72
2:FB:94:LYS:HB3	2:FB:146:ASN:HA	1.71	0.72
1:AA:669:LEU:HD12	1:AA:786:TYR:HD1	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:125:LYS:O	3:BC:130:ASN:ND2	2.22	0.72
1:CA:1513:GLU:O	1:CA:1515:GLY:N	2.23	0.72
3:FC:84:TYR:HB3	12:FL:64:LEU:HD11	1.72	0.72
1:CA:30:LYS:NZ	1:CA:51:ASP:OD2	2.20	0.72
1:CA:40:ASN:OD1	1:CA:40:ASN:N	2.21	0.72
7:CG:149:ILE:HG22	7:CG:150:HIS:CD2	2.23	0.72
2:DB:623:ASP:HA	2:DB:663:ILE:HG21	1.72	0.72
10:EJ:7:CYS:SG	10:EJ:8:PHE:N	2.62	0.72
1:FA:82:PRO:HG2	1:FA:396:ILE:HD12	1.70	0.72
3:FC:32:ASN:HB2	3:FC:35:LYS:HE3	1.72	0.72
4:FD:44:ILE:HD13	4:FD:90:LYS:HG3	1.72	0.72
1:AA:618:TYR:HB3	1:AA:670:ILE:HD11	1.72	0.72
1:BA:1016:SER:HB2	1:BA:1019:LEU:HD22	1.70	0.72
2:CB:754:ALA:O	2:CB:756:LEU:N	2.23	0.72
1:DA:99:ARG:O	1:DA:109:ARG:NH2	2.22	0.72
1:DA:1217:LEU:HD13	1:DA:1573:TYR:HE1	1.55	0.72
1:DA:1261:VAL:HG12	1:DA:1498:ILE:HD12	1.72	0.72
1:DA:1557:ALA:HB2	5:DE:150:VAL:HG22	1.72	0.72
2:EB:152:LEU:HD13	2:EB:443:LYS:HG3	1.71	0.72
3:FC:135:SER:HA	3:FC:205:LYS:HA	1.72	0.72
2:AB:655:TYR:HA	2:AB:688:HIS:CD2	2.23	0.71
1:BA:524:ILE:O	1:BA:554:ARG:NH1	2.22	0.71
1:BA:809:VAL:O	1:BA:813:LEU:HG	1.90	0.71
5:BE:175:LEU:HD13	5:BE:176:PRO:HD2	1.72	0.71
13:CM:38:PHE:HB3	13:CM:53:LEU:HD11	1.71	0.71
1:DA:809:VAL:O	1:DA:813:LEU:HG	1.90	0.71
2:DB:467:THR:HB	2:DB:469:ASN:HD22	1.55	0.71
1:EA:1638:SER:HA	1:EA:1641:ILE:HD12	1.71	0.71
2:EB:134:ARG:HA	2:EB:163:VAL:HG23	1.72	0.71
1:BA:618:TYR:HB3	1:BA:670:ILE:HD11	1.71	0.71
3:BC:136:LEU:O	3:BC:203:SER:HA	1.90	0.71
12:BL:34:CYS:CB	12:BL:51:CYS:SG	2.61	0.71
1:CA:524:ILE:O	1:CA:554:ARG:NH1	2.22	0.71
2:CB:130:LEU:HD22	2:CB:198:GLY:HA3	1.72	0.71
2:CB:572:PRO:O	2:CB:576:THR:OG1	2.06	0.71
3:CC:201:GLU:O	3:CC:202:ILE:HD12	1.91	0.71
8:CH:62:SER:OG	8:CH:63:LEU:N	2.21	0.71
7:CO:272:ILE:HG23	7:CO:275:ASN:HD21	1.56	0.71
2:DB:848:ILE:HG13	12:DL:60:ARG:HA	1.71	0.71
13:DM:38:PHE:HB3	13:DM:53:LEU:HD11	1.72	0.71
5:FE:41:ASP:OD1	5:FE:41:ASP:N	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:709:ARG:O	1:AA:711:LYS:N	2.21	0.71
1:AA:748:ASN:HD22	1:AA:748:ASN:N	1.89	0.71
1:AA:804:GLU:N	1:AA:804:GLU:OE1	2.23	0.71
1:AA:1322:ILE:HG21	1:AA:1457:ILE:HD11	1.72	0.71
2:BB:674:ILE:HG23	2:BB:688:HIS:HB2	1.73	0.71
2:BB:834:LYS:C	2:BB:836:TRP:H	1.97	0.71
3:BC:83:VAL:HG13	3:BC:206:ALA:HB2	1.72	0.71
13:EM:40:LEU:HD11	13:EM:51:PHE:HB3	1.71	0.71
13:EM:80:LEU:HD13	14:EN:39:PRO:HG2	1.72	0.71
2:BB:431:ASP:HB3	2:BB:438:ILE:HD11	1.73	0.71
1:CA:1033:SER:HB3	6:CF:139:PRO:HG2	1.70	0.71
2:EB:971:ALA:O	2:EB:974:LEU:N	2.24	0.71
1:AA:748:ASN:ND2	1:AA:1072:ASN:OD1	2.23	0.71
1:CA:11:ILE:HG21	2:CB:1198:TYR:HB2	1.73	0.71
1:CA:618:TYR:O	1:CA:621:THR:OG1	2.06	0.71
1:DA:985:ARG:HD2	1:DA:987:TYR:HB3	1.72	0.71
3:DC:314:PHE:O	3:DC:317:SER:OG	2.08	0.71
3:DC:329:LYS:HD2	11:DK:122:LYS:HE2	1.72	0.71
5:DE:93:MET:HG2	5:DE:120:ALA:HB1	1.72	0.71
12:EL:63:ARG:HG2	12:EL:64:LEU:H	1.56	0.71
1:FA:1028:GLU:HA	1:FA:1187:ILE:HG12	1.71	0.71
1:FA:1202:LEU:HD22	9:FI:99:LEU:HD22	1.71	0.71
1:FA:1263:LEU:HB2	1:FA:1496:SER:HB2	1.72	0.71
1:FA:1293:HIS:HE1	1:FA:1469:TRP:HB2	1.56	0.71
14:AN:97:SER:HB3	14:AN:105:SER:HB3	1.73	0.71
1:BA:11:ILE:HG21	2:BB:1198:TYR:HB2	1.73	0.71
1:BA:818:THR:HG23	2:BB:780:GLY:HA3	1.73	0.71
5:CE:5:ASN:HD21	5:CE:52:ARG:HH21	1.37	0.71
9:DI:99:LEU:HB2	9:DI:111:PHE:HZ	1.56	0.71
1:EA:865:ASP:OD2	1:EA:867:ASP:N	2.22	0.71
5:EE:153:HIS:CD2	5:EE:184:VAL:HG11	2.26	0.71
1:AA:882:ILE:HD13	1:AA:888:LYS:HB3	1.73	0.71
1:BA:55:GLY:HA2	1:BA:72:CYS:SG	2.31	0.71
1:BA:1557:ALA:HB2	5:BE:150:VAL:HG22	1.73	0.71
11:CK:89:CYS:SG	11:CK:90:GLY:N	2.64	0.71
2:EB:972:GLY:HA2	2:EB:977:ILE:HG22	1.72	0.71
5:EE:41:ASP:OD1	5:EE:41:ASP:N	2.18	0.71
14:FN:105:SER:OG	14:FN:132:GLN:NE2	2.23	0.71
1:AA:113:VAL:HG13	1:AA:182:LYS:HG3	1.70	0.71
2:BB:776:ILE:HB	2:BB:1026:ILE:HD13	1.72	0.71
7:BG:105:ILE:HG12	7:BG:116:THR:HB	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:834:LYS:C	2:CB:836:TRP:H	1.99	0.71
7:CG:105:ILE:HG12	7:CG:116:THR:HB	1.73	0.71
14:CN:93:THR:HG23	14:CN:99:LEU:HD21	1.71	0.71
1:DA:549:MET:SD	1:DA:553:GLN:NE2	2.63	0.71
1:EA:385:LEU:HD13	1:EA:437:PHE:HA	1.73	0.71
1:EA:1513:GLU:O	1:EA:1515:GLY:N	2.23	0.71
3:EC:329:LYS:HD2	11:EK:122:LYS:HE2	1.71	0.71
1:FA:532:GLY:O	1:FA:580:HIS:N	2.17	0.71
1:FA:855:ARG:O	1:FA:858:ALA:N	2.23	0.71
1:FA:1638:SER:HA	1:FA:1641:ILE:HD12	1.73	0.71
2:AB:788:ILE:HB	2:AB:948:ILE:HB	1.71	0.71
1:BA:745:PRO:HG2	1:BA:1075:ALA:HB2	1.72	0.71
1:CA:510:PRO:O	1:CA:515:ASN:ND2	2.23	0.71
2:CB:970:LYS:NZ	2:CB:1011:GLU:OE2	2.19	0.71
7:DG:105:ILE:HG12	7:DG:116:THR:HB	1.72	0.71
1:EA:40:ASN:N	1:EA:40:ASN:OD1	2.23	0.71
12:AL:34:CYS:CB	12:AL:51:CYS:SG	2.64	0.71
9:BI:13:CYS:SG	9:BI:14:GLY:N	2.63	0.71
5:DE:41:ASP:OD1	5:DE:41:ASP:N	2.17	0.71
1:EA:97:TYR:O	1:EA:101:SER:OG	2.08	0.71
1:EA:618:TYR:HB3	1:EA:670:ILE:HD11	1.71	0.71
1:EA:1276:THR:HG23	1:EA:1288:ARG:HH11	1.56	0.71
1:EA:1474:LEU:HD13	1:EA:1475:GLU:H	1.55	0.71
1:FA:1617:THR:HB	1:FA:1620:GLN:HG2	1.72	0.71
2:FB:73:ILE:HD13	2:FB:74:PHE:H	1.56	0.71
2:FB:967:LEU:H	2:FB:967:LEU:HD12	1.55	0.71
2:BB:52:LEU:HB3	2:BB:61:LEU:HD11	1.71	0.70
7:BG:45:LEU:HD11	7:BG:118:CYS:HB2	1.72	0.70
1:CA:391:THR:HG21	7:CO:284:VAL:HG21	1.73	0.70
2:CB:788:ILE:HB	2:CB:948:ILE:HB	1.72	0.70
7:CG:248:THR:HG1	7:CG:249:LEU:H	1.38	0.70
2:DB:213:HIS:HB2	2:DB:643:PHE:HZ	1.56	0.70
2:DB:229:TYR:HA	2:DB:253:LEU:HD22	1.72	0.70
2:DB:832:TRP:HZ3	2:DB:834:LYS:HA	1.55	0.70
1:EA:472:MET:SD	1:EA:1025:LYS:NZ	2.58	0.70
1:AA:809:VAL:O	1:AA:813:LEU:HG	1.91	0.70
1:BA:1241:PRO:HG3	1:BA:1540:GLY:HA3	1.73	0.70
1:BA:1246:VAL:HG13	1:BA:1250:GLN:HB3	1.73	0.70
9:CI:99:LEU:HB2	9:CI:111:PHE:HZ	1.56	0.70
2:DB:431:ASP:HB3	2:DB:438:ILE:HD11	1.71	0.70
1:FA:1647:ASN:HB3	1:FA:1649:VAL:HG23	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:433:ASP:OD1	7:AO:277:LYS:NZ	2.22	0.70
2:AB:623:ASP:HA	2:AB:663:ILE:HG21	1.74	0.70
2:CB:212:ASN:N	2:CB:212:ASN:OD1	2.22	0.70
6:DF:97:ARG:HA	6:DF:100:GLN:HG3	1.73	0.70
8:EH:62:SER:OG	8:EH:63:LEU:N	2.19	0.70
2:AB:752:VAL:HG21	2:AB:965:GLU:HG2	1.73	0.70
2:AB:774:ALA:HB3	2:AB:948:ILE:HA	1.74	0.70
4:AD:44:ILE:HD13	4:AD:90:LYS:HG3	1.72	0.70
5:BE:198:ILE:HD11	5:BE:212:ARG:HG2	1.72	0.70
1:CA:669:LEU:HD22	1:CA:673:HIS:ND1	2.06	0.70
2:CB:109:SER:OG	2:CB:110:ASN:N	2.23	0.70
1:DA:855:ARG:O	1:DA:858:ALA:N	2.24	0.70
2:DB:52:LEU:HB3	2:DB:61:LEU:HD11	1.73	0.70
3:DC:197:ARG:HG2	10:DJ:61:LEU:HD22	1.72	0.70
1:EA:1322:ILE:HG21	1:EA:1457:ILE:HD11	1.72	0.70
2:EB:845:LEU:HD12	12:EL:58:LYS:HD2	1.74	0.70
2:EB:886:ASN:O	2:EB:902:SER:N	2.22	0.70
1:FA:76:GLN:HE22	2:FB:1111:LEU:HD12	1.55	0.70
1:FA:693:GLN:OE1	11:FK:88:PHE:HA	1.91	0.70
1:AA:669:LEU:HD22	1:AA:673:HIS:ND1	2.06	0.70
2:AB:1047:ARG:NH2	2:AB:1051:PRO:O	2.25	0.70
5:AE:136:ASN:OD1	5:AE:138:ALA:N	2.25	0.70
5:AE:192:ARG:NH2	5:AE:215:MET:O	2.24	0.70
1:BA:1322:ILE:HG21	1:BA:1457:ILE:HD11	1.72	0.70
2:CB:567:SER:HB2	14:CN:59:PRO:HB3	1.72	0.70
1:DA:1139:ASN:HB2	5:DE:205:SER:HA	1.72	0.70
2:EB:396:ALA:HB1	2:EB:523:GLU:HG3	1.73	0.70
2:EB:834:LYS:O	2:EB:836:TRP:N	2.24	0.70
2:FB:892:SER:OG	2:FB:896:GLN:NE2	2.25	0.70
1:CA:385:LEU:HD13	1:CA:437:PHE:HA	1.74	0.70
1:CA:512:THR:OG1	1:CA:513:ALA:N	2.18	0.70
1:CA:748:ASN:N	1:CA:748:ASN:HD22	1.88	0.70
11:DK:54:THR:HG22	11:DK:61:ALA:HA	1.73	0.70
2:EB:834:LYS:C	2:EB:836:TRP:H	1.97	0.70
1:FA:1217:LEU:HD13	1:FA:1573:TYR:HE1	1.56	0.70
2:FB:262:PHE:CE2	2:FB:269:TYR:HB2	2.26	0.70
8:BH:5:LEU:HD22	8:BH:135:LEU:HD23	1.72	0.70
5:CE:93:MET:HG2	5:CE:120:ALA:HB1	1.73	0.70
1:EA:1617:THR:HB	1:EA:1620:GLN:HG2	1.72	0.70
1:FA:1220:PRO:O	1:FA:1223:ARG:N	2.25	0.70
5:FE:137:GLU:O	5:FE:139:ALA:N	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:94:LYS:HB3	2:AB:146:ASN:HA	1.74	0.70
2:AB:109:SER:OG	2:AB:110:ASN:N	2.21	0.70
1:CA:82:PRO:HG2	1:CA:396:ILE:HD12	1.73	0.70
1:DA:1293:HIS:HE1	1:DA:1469:TRP:HB2	1.56	0.70
1:DA:1555:VAL:N	5:DE:182:ASP:OD1	2.20	0.70
1:EA:123:ARG:HD3	1:EA:337:TYR:CE1	2.25	0.70
2:FB:749:THR:OG1	2:FB:763:ASP:OD1	2.10	0.70
1:AA:461:GLU:HA	1:AA:465:GLY:HA2	1.74	0.70
1:AA:1590:THR:OG1	5:AE:212:ARG:NH2	2.24	0.70
2:CB:655:TYR:HA	2:CB:688:HIS:CD2	2.26	0.70
11:CK:58:GLY:C	11:CK:60:SER:H	2.00	0.70
2:DB:629:VAL:HG11	2:DB:636:GLN:HG2	1.74	0.70
2:EB:1047:ARG:NH2	2:EB:1051:PRO:O	2.25	0.70
2:FB:674:ILE:HG23	2:FB:688:HIS:HB2	1.72	0.70
1:AA:512:THR:OG1	1:AA:513:ALA:N	2.16	0.70
1:AA:856:GLU:OE1	1:AA:857:ALA:N	2.25	0.70
1:BA:1293:HIS:HE1	1:BA:1469:TRP:HB2	1.57	0.70
2:BB:98:SER:HA	2:BB:421:LEU:HD21	1.74	0.70
1:CA:1235:THR:O	1:CA:1544:ASN:ND2	2.25	0.70
1:CA:1237:GLN:H	1:CA:1544:ASN:HB3	1.56	0.70
1:CA:1322:ILE:HG21	1:CA:1457:ILE:HD11	1.74	0.70
2:CB:72:VAL:HG22	2:CB:96:SER:HA	1.74	0.70
2:CB:713:PRO:HA	2:CB:716:MET:HE2	1.74	0.70
2:CB:751:ILE:HG12	2:CB:969:GLY:HA2	1.72	0.70
2:DB:134:ARG:HA	2:DB:163:VAL:HG23	1.72	0.70
5:DE:153:HIS:CD2	5:DE:184:VAL:HG11	2.27	0.70
2:AB:170:CYS:SG	2:AB:172:LEU:N	2.65	0.69
4:AD:36:VAL:HG21	7:AG:38:ILE:HD13	1.74	0.69
1:DA:956:ARG:HE	1:DA:979:GLY:HA3	1.55	0.69
2:DB:683:ASN:HA	14:DN:150:TYR:CE1	2.27	0.69
8:DH:62:SER:OG	8:DH:63:LEU:N	2.25	0.69
1:FA:194:ALA:O	1:FA:198:SER:OG	2.09	0.69
2:FB:972:GLY:HA2	2:FB:977:ILE:HG22	1.74	0.69
1:AA:141:LEU:HG	1:AA:142:GLY:H	1.57	0.69
3:AC:328:LEU:HB3	11:AK:121:LEU:HD11	1.73	0.69
1:CA:855:ARG:O	1:CA:858:ALA:N	2.25	0.69
1:CA:1335:LYS:HD2	1:CA:1338:ARG:HH21	1.57	0.69
2:CB:127:ARG:NH1	2:CB:185:GLU:OE2	2.24	0.69
9:CI:6:SER:H	9:CI:45:LEU:HD22	1.56	0.69
9:CI:109:THR:OG1	9:CI:124:ASN:ND2	2.26	0.69
3:DC:125:LYS:O	3:DC:130:ASN:ND2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:82:PRO:HG2	1:EA:396:ILE:HD12	1.74	0.69
1:EA:509:GLU:OE1	1:EA:584:ARG:NH1	2.25	0.69
1:AA:745:PRO:HG2	1:AA:1075:ALA:HB2	1.74	0.69
3:AC:329:LYS:HD2	11:AK:122:LYS:HE2	1.74	0.69
13:AM:38:PHE:HB3	13:AM:53:LEU:HD11	1.74	0.69
2:BB:567:SER:HB2	14:BN:59:PRO:HB3	1.73	0.69
2:BB:629:VAL:HG11	2:BB:636:GLN:HG2	1.73	0.69
1:CA:1202:LEU:HD11	9:CI:101:LEU:HD11	1.74	0.69
1:CA:1217:LEU:HD13	1:CA:1573:TYR:HE1	1.57	0.69
2:DB:752:VAL:HG21	2:DB:965:GLU:HG2	1.74	0.69
9:DI:88:GLN:OE1	9:DI:119:TYR:HB2	1.92	0.69
1:EA:1335:LYS:HD2	1:EA:1338:ARG:HH21	1.58	0.69
1:FA:729:LYS:HD2	8:FH:120:GLY:HA3	1.74	0.69
2:FB:474:SER:O	2:FB:476:LEU:N	2.25	0.69
2:AB:891:GLU:O	2:AB:894:LYS:N	2.26	0.69
5:AE:152:LYS:HE3	5:AE:154:ILE:HD11	1.74	0.69
5:BE:153:HIS:CD2	5:BE:184:VAL:HG11	2.27	0.69
1:CA:1220:PRO:O	1:CA:1223:ARG:N	2.25	0.69
1:DA:509:GLU:OE1	1:DA:584:ARG:NH1	2.23	0.69
2:EB:161:LEU:HD12	2:EB:162:PRO:HD2	1.73	0.69
2:EB:832:TRP:HZ3	2:EB:834:LYS:HA	1.57	0.69
2:FB:170:CYS:SG	2:FB:172:LEU:N	2.66	0.69
2:AB:162:PRO:HG3	2:AB:462:GLN:HG3	1.75	0.69
1:BA:721:LYS:HG2	1:BA:722:PRO:HA	1.75	0.69
4:BD:22:ILE:O	7:BG:76:LYS:NZ	2.26	0.69
1:DA:721:LYS:HG2	1:DA:722:PRO:HA	1.73	0.69
3:DC:164:ALA:HB2	3:DC:191:ILE:HB	1.74	0.69
14:DN:87:TYR:HB3	14:DN:139:VAL:HG12	1.72	0.69
1:EA:510:PRO:O	1:EA:515:ASN:ND2	2.25	0.69
1:EA:524:ILE:O	1:EA:554:ARG:NH1	2.25	0.69
1:EA:1016:SER:HB2	1:EA:1019:LEU:HD22	1.74	0.69
2:FB:73:ILE:HG13	2:FB:429:ARG:HH22	1.57	0.69
1:AA:387:SER:HA	1:AA:390:LEU:HD12	1.75	0.69
2:AB:612:LYS:NZ	2:AB:624:LEU:O	2.25	0.69
1:BA:1059:LYS:NZ	1:BA:1178:LEU:O	2.25	0.69
2:BB:467:THR:HB	2:BB:469:ASN:HD22	1.56	0.69
1:CA:936:SER:HB2	9:CI:112:TYR:OH	1.92	0.69
1:CA:1335:LYS:HD2	1:CA:1338:ARG:NH2	2.07	0.69
2:CB:98:SER:OG	2:CB:99:VAL:N	2.20	0.69
3:CC:100:ARG:O	3:CC:103:LEU:N	2.20	0.69
3:DC:198:PRO:O	10:DJ:64:ASN:ND2	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DN:105:SER:OG	14:DN:132:GLN:NE2	2.25	0.69
1:EA:748:ASN:HD22	1:EA:748:ASN:N	1.90	0.69
1:EA:782:ASP:OD1	1:EA:783:LYS:N	2.25	0.69
1:FA:748:ASN:HD22	1:FA:748:ASN:N	1.91	0.69
1:AA:637:PHE:HD1	1:AA:638:PRO:HD2	1.58	0.69
2:AB:699:ILE:HD13	2:AB:699:ILE:H	1.58	0.69
2:BB:788:ILE:HB	2:BB:948:ILE:HB	1.73	0.69
11:BK:54:THR:HG22	11:BK:61:ALA:HA	1.74	0.69
1:CA:669:LEU:HD12	1:CA:786:TYR:HD1	1.56	0.69
2:CB:774:ALA:HB3	2:CB:948:ILE:HA	1.75	0.69
2:DB:1002:LYS:NZ	14:DN:166:LEU:HD13	2.08	0.69
3:FC:225:ALA:HB1	3:FC:302:VAL:HG22	1.74	0.69
2:AB:533:THR:OG1	2:AB:542:LEU:O	2.08	0.69
2:AB:674:ILE:HG23	2:AB:688:HIS:HB2	1.73	0.69
2:AB:749:THR:OG1	2:AB:763:ASP:OD1	2.11	0.69
3:AC:136:LEU:O	3:AC:203:SER:HA	1.93	0.69
7:AG:40:ARG:NH1	7:AG:123:TYR:OH	2.25	0.69
1:BA:956:ARG:HE	1:BA:979:GLY:HA3	1.58	0.69
1:BA:1647:ASN:HB3	1:BA:1649:VAL:HG23	1.75	0.69
2:BB:1202:PRO:HG3	7:BG:46:TYR:CE2	2.27	0.69
1:CA:782:ASP:OD1	1:CA:783:LYS:N	2.24	0.69
2:CB:971:ALA:O	2:CB:974:LEU:N	2.26	0.69
7:CO:272:ILE:HG23	7:CO:275:ASN:ND2	2.07	0.69
1:DA:715:LEU:HD22	1:DA:716:PRO:HD2	1.74	0.69
2:DB:533:THR:OG1	2:DB:542:LEU:O	2.09	0.69
5:DE:48:ASP:O	5:DE:50:MET:N	2.26	0.69
1:EA:477:ASN:O	2:EB:1091:ARG:NH2	2.26	0.69
1:EA:1220:PRO:O	1:EA:1223:ARG:N	2.26	0.69
1:EA:1226:VAL:HG12	1:EA:1227:MET:HG2	1.75	0.69
1:FA:113:VAL:HG13	1:FA:182:LYS:HG3	1.75	0.69
1:FA:699:CYS:SG	1:FA:700:ILE:N	2.66	0.69
1:FA:856:GLU:OE1	1:FA:857:ALA:N	2.26	0.69
2:FB:212:ASN:N	2:FB:212:ASN:OD1	2.25	0.69
3:FC:164:ALA:HB2	3:FC:191:ILE:HB	1.75	0.69
7:FG:149:ILE:HG22	7:FG:150:HIS:CD2	2.24	0.69
8:FH:5:LEU:HD22	8:FH:135:LEU:HD23	1.75	0.69
1:AA:1217:LEU:HD13	1:AA:1573:TYR:HE1	1.57	0.69
2:AB:811:LEU:HD13	2:AB:823:GLN:HE21	1.57	0.69
1:CA:721:LYS:HG2	1:CA:722:PRO:HA	1.74	0.69
2:CB:533:THR:OG1	2:CB:542:LEU:O	2.09	0.69
12:CL:53:HIS:O	12:CL:55:ILE:N	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:DM:112:LYS:HG3	13:DM:113:ILE:HD12	1.74	0.69
2:EB:612:LYS:NZ	2:EB:624:LEU:O	2.26	0.69
3:EC:136:LEU:O	3:EC:203:SER:HA	1.93	0.69
1:FA:618:TYR:O	1:FA:621:THR:OG1	2.11	0.69
5:FE:86:PRO:HA	5:FE:113:GLN:HB2	1.75	0.69
1:AA:472:MET:SD	1:AA:1025:LYS:NZ	2.58	0.69
1:BA:1333:ILE:HD11	1:BA:1483:LEU:HD11	1.75	0.69
2:BB:98:SER:OG	2:BB:99:VAL:N	2.26	0.69
2:DB:98:SER:OG	2:DB:99:VAL:N	2.24	0.69
2:DB:138:LEU:HD22	2:DB:157:ASP:HA	1.75	0.69
7:EG:24:VAL:O	7:EG:128:GLN:NE2	2.25	0.69
2:FB:170:CYS:SG	2:FB:171:HIS:N	2.65	0.69
1:BA:532:GLY:O	1:BA:580:HIS:N	2.15	0.68
1:CA:882:ILE:HD13	1:CA:888:LYS:HB3	1.75	0.68
2:CB:431:ASP:HB3	2:CB:438:ILE:HD11	1.74	0.68
2:CB:834:LYS:O	2:CB:836:TRP:N	2.26	0.68
7:CG:24:VAL:O	7:CG:128:GLN:NE2	2.25	0.68
1:DA:611:GLU:OE1	1:DA:615:ARG:NH1	2.26	0.68
5:DE:192:ARG:NH2	5:DE:215:MET:O	2.26	0.68
3:EC:90:SER:OG	3:EC:91:VAL:N	2.25	0.68
2:FB:623:ASP:HA	2:FB:663:ILE:HG21	1.75	0.68
13:FM:38:PHE:HB3	13:FM:53:LEU:HD11	1.75	0.68
1:AA:463:LYS:NZ	7:AO:315:SER:OG	2.24	0.68
1:AA:1276:THR:HG23	1:AA:1288:ARG:HH11	1.58	0.68
2:BB:213:HIS:HB2	2:BB:643:PHE:CZ	2.28	0.68
1:CA:418:VAL:HG11	7:CO:268:GLU:HG3	1.74	0.68
12:DL:53:HIS:O	12:DL:55:ILE:N	2.24	0.68
4:ED:44:ILE:HD13	4:ED:90:LYS:HG3	1.76	0.68
1:AA:1617:THR:HB	1:AA:1620:GLN:HG2	1.74	0.68
2:AB:848:ILE:HD11	12:AL:58:LYS:HD3	1.76	0.68
2:BB:327:LEU:HD13	2:BB:351:GLN:HG2	1.75	0.68
2:CB:38:LEU:O	2:CB:41:ALA:N	2.23	0.68
1:DA:11:ILE:HG21	2:DB:1198:TYR:HB2	1.75	0.68
1:DA:1237:GLN:H	1:DA:1544:ASN:HB3	1.57	0.68
2:DB:210:ARG:NH2	2:DB:625:GLU:OE2	2.26	0.68
3:DC:229:LEU:O	3:DC:293:ARG:NH1	2.26	0.68
13:DM:15:VAL:HG22	13:DM:90:LEU:HD12	1.76	0.68
11:EK:89:CYS:SG	11:EK:90:GLY:N	2.66	0.68
1:FA:472:MET:SD	1:FA:1025:LYS:NZ	2.61	0.68
2:FB:431:ASP:HB3	2:FB:438:ILE:HD11	1.75	0.68
3:FC:314:PHE:O	3:FC:317:SER:OG	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:229:TYR:HA	2:AB:253:LEU:HD22	1.73	0.68
2:BB:104:ILE:HB	2:BB:169:ARG:HG3	1.74	0.68
2:CB:832:TRP:HZ3	2:CB:834:LYS:HA	1.58	0.68
2:CB:876:SER:O	2:CB:878:GLU:N	2.20	0.68
1:DA:1026:GLN:HA	1:DA:1611:MET:HE3	1.75	0.68
3:DC:136:LEU:O	3:DC:203:SER:HA	1.93	0.68
11:DK:98:GLU:O	11:DK:100:LEU:N	2.26	0.68
1:FA:141:LEU:HG	1:FA:142:GLY:H	1.59	0.68
1:FA:1276:THR:O	9:FI:44:ASN:HB3	1.94	0.68
13:FM:32:ALA:HB3	14:FN:121:ILE:HD11	1.75	0.68
1:CA:618:TYR:HB3	1:CA:670:ILE:HD11	1.74	0.68
5:DE:86:PRO:HA	5:DE:113:GLN:HB2	1.76	0.68
1:FA:1136:VAL:HG11	1:FA:1140:PHE:HD2	1.59	0.68
13:BM:78:VAL:O	13:BM:91:TYR:N	2.26	0.68
14:BN:87:TYR:HB3	14:BN:139:VAL:HG12	1.73	0.68
1:DA:637:PHE:HD1	1:DA:638:PRO:HD2	1.58	0.68
1:EA:512:THR:OG1	1:EA:513:ALA:N	2.21	0.68
1:EA:574:ASN:N	1:EA:574:ASN:OD1	2.24	0.68
7:EG:45:LEU:HD11	7:EG:118:CYS:HB2	1.75	0.68
11:FK:88:PHE:HB3	11:FK:106:GLN:HB2	1.73	0.68
2:AB:431:ASP:HB3	2:AB:438:ILE:HD11	1.76	0.68
2:AB:833:PRO:HG2	2:AB:836:TRP:CZ2	2.29	0.68
2:AB:834:LYS:C	2:AB:836:TRP:H	2.02	0.68
9:AI:6:SER:H	9:AI:45:LEU:HD22	1.58	0.68
1:BA:1003:ARG:NH2	2:BB:520:LEU:HD22	2.08	0.68
5:BE:87:SER:HA	5:BE:115:ASN:HB3	1.76	0.68
1:CA:471:MET:HA	1:CA:474:LYS:HE3	1.76	0.68
1:DA:1242:ILE:HD11	1:DA:1517:ARG:HB3	1.76	0.68
3:DC:201:GLU:O	3:DC:202:ILE:HD12	1.93	0.68
1:EA:1007:ILE:HG22	2:EB:515:THR:HG22	1.75	0.68
2:EB:891:GLU:O	2:EB:894:LYS:N	2.26	0.68
5:EE:175:LEU:HD13	5:EE:176:PRO:HD2	1.76	0.68
1:FA:1215:VAL:HG22	1:FA:1216:THR:H	1.59	0.68
2:FB:52:LEU:HB3	2:FB:61:LEU:HD11	1.75	0.68
2:FB:834:LYS:O	2:FB:836:TRP:N	2.26	0.68
1:AA:471:MET:HA	1:AA:474:LYS:HE3	1.76	0.68
2:AB:138:LEU:HD22	2:AB:157:ASP:HA	1.75	0.68
2:AB:346:ASP:OD1	13:AM:113:ILE:HG23	1.93	0.68
1:BA:812:VAL:HG12	1:BA:813:LEU:HD23	1.75	0.68
1:CA:1447:GLN:HG3	1:CA:1460:TYR:HB3	1.76	0.68
1:CA:1563:VAL:HA	1:CA:1566:ILE:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:964:LYS:NZ	1:DA:967:PRO:HA	2.09	0.68
3:EC:225:ALA:HB1	3:EC:302:VAL:HG22	1.75	0.68
5:EE:93:MET:HG2	5:EE:120:ALA:HB1	1.76	0.68
7:EG:159:LYS:HZ1	7:FO:279:VAL:HG23	1.59	0.68
1:FA:1563:VAL:HA	1:FA:1566:ILE:HD11	1.76	0.68
1:AA:509:GLU:OE1	1:AA:584:ARG:NH1	2.25	0.68
1:AA:524:ILE:O	1:AA:554:ARG:NH1	2.27	0.68
1:AA:1563:VAL:HA	1:AA:1566:ILE:HD11	1.76	0.68
3:AC:135:SER:HA	3:AC:205:LYS:HA	1.74	0.68
9:AI:88:GLN:OE1	9:AI:119:TYR:HB2	1.94	0.68
1:BA:620:ASN:OD1	1:BA:667:ARG:NH2	2.26	0.68
1:BA:985:ARG:HD2	1:BA:987:TYR:HB3	1.74	0.68
2:BB:906:ARG:NE	3:BC:95:GLU:OE2	2.27	0.68
1:CA:892:LEU:O	1:CA:896:THR:OG1	2.12	0.68
2:CB:749:THR:OG1	2:CB:763:ASP:OD1	2.11	0.68
1:DA:40:ASN:N	1:DA:40:ASN:OD1	2.26	0.68
2:DB:857:PRO:HA	2:DB:871:ILE:HD11	1.76	0.68
13:DM:21:VAL:HB	14:DN:109:LEU:HD11	1.76	0.68
2:EB:834:LYS:HB2	1:FA:553:GLN:NE2	2.09	0.68
8:EH:118:PHE:HB2	8:EH:121:LEU:HB2	1.76	0.68
3:FC:85:PHE:O	12:FL:64:LEU:HA	1.94	0.68
3:FC:329:LYS:HD2	11:FK:122:LYS:HE2	1.76	0.68
1:AA:1039:ARG:NH2	5:AE:168:TYR:O	2.27	0.68
2:AB:833:PRO:O	2:AB:834:LYS:HB3	1.94	0.68
5:AE:156:LEU:HD21	5:AE:197:LYS:HB2	1.74	0.68
1:CA:211:THR:HB	5:CE:173:SER:HB2	1.76	0.68
2:CB:554:GLN:HA	2:CB:646:HIS:CD2	2.29	0.68
5:CE:153:HIS:CD2	5:CE:184:VAL:HG11	2.29	0.68
2:EB:98:SER:OG	2:EB:99:VAL:N	2.27	0.68
3:EC:201:GLU:O	3:EC:202:ILE:HD12	1.94	0.68
3:EC:229:LEU:O	3:EC:293:ARG:NH1	2.26	0.68
14:EN:122:ALA:O	14:EN:130:PRO:HA	1.94	0.68
1:FA:512:THR:OG1	1:FA:513:ALA:N	2.17	0.68
2:FB:134:ARG:HA	2:FB:163:VAL:HG23	1.75	0.68
14:FN:122:ALA:O	14:FN:130:PRO:HA	1.94	0.68
1:AA:936:SER:HB2	9:AI:112:TYR:OH	1.94	0.67
2:AB:327:LEU:HD13	2:AB:351:GLN:HG2	1.75	0.67
11:AK:58:GLY:C	11:AK:60:SER:H	2.01	0.67
1:BA:882:ILE:HD13	1:BA:888:LYS:HB3	1.74	0.67
1:BA:1263:LEU:HB2	1:BA:1496:SER:HB2	1.75	0.67
2:CB:776:ILE:HB	2:CB:1026:ILE:HD13	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:807:GLU:O	2:CB:902:SER:OG	2.05	0.67
2:DB:972:GLY:HA2	2:DB:977:ILE:HG22	1.76	0.67
1:EA:55:GLY:HA2	1:EA:72:CYS:SG	2.35	0.67
1:EA:560:GLN:O	1:EA:575:LYS:NZ	2.19	0.67
2:EB:162:PRO:HG3	2:EB:462:GLN:HG3	1.75	0.67
8:EH:63:LEU:HB2	8:EH:88:SER:HB2	1.76	0.67
2:FB:138:LEU:HD22	2:FB:157:ASP:HA	1.75	0.67
5:AE:175:LEU:HD13	5:AE:176:PRO:HD2	1.77	0.67
2:BB:547:HIS:HB2	2:BB:760:TYR:OH	1.95	0.67
1:DA:1657:LEU:HD11	6:DF:135:ARG:HB2	1.76	0.67
5:DE:198:ILE:HD11	5:DE:212:ARG:HG2	1.75	0.67
12:DL:45:ALA:O	12:DL:47:ARG:N	2.27	0.67
1:EA:637:PHE:HD1	1:EA:638:PRO:HD2	1.59	0.67
13:EM:12:ILE:CG2	14:EN:68:LYS:HA	2.23	0.67
1:FA:637:PHE:HD1	1:FA:638:PRO:HD2	1.59	0.67
1:AA:693:GLN:NE2	11:AK:87:GLU:O	2.24	0.67
1:BA:30:LYS:NZ	1:BA:51:ASP:OD2	2.22	0.67
1:BA:748:ASN:HD22	1:BA:748:ASN:N	1.92	0.67
1:BA:1028:GLU:HA	1:BA:1187:ILE:HG12	1.77	0.67
2:CB:161:LEU:HD12	2:CB:162:PRO:HD2	1.74	0.67
2:CB:213:HIS:HB2	2:CB:643:PHE:CZ	2.29	0.67
5:CE:6:GLU:HA	5:CE:9:ILE:HB	1.75	0.67
2:DB:396:ALA:HB1	2:DB:523:GLU:HG3	1.76	0.67
13:DM:12:ILE:CG2	14:DN:68:LYS:HA	2.24	0.67
1:EA:1657:LEU:HD11	6:EF:135:ARG:HB2	1.75	0.67
2:EB:1060:VAL:HG23	7:EO:316:GLU:OE1	1.93	0.67
5:EE:136:ASN:OD1	5:EE:138:ALA:N	2.26	0.67
7:EG:105:ILE:HG12	7:EG:116:THR:HB	1.74	0.67
1:FA:721:LYS:HG2	1:FA:722:PRO:HA	1.76	0.67
1:FA:1335:LYS:HD2	1:FA:1338:ARG:NH2	2.09	0.67
11:FK:58:GLY:C	11:FK:60:SER:H	2.02	0.67
2:AB:130:LEU:HD22	2:AB:198:GLY:HA3	1.76	0.67
12:AL:34:CYS:SG	12:AL:36:SER:OG	2.53	0.67
1:BA:82:PRO:HG2	1:BA:396:ILE:HD12	1.75	0.67
1:BA:680:LEU:HD21	1:BA:731:ILE:HD12	1.77	0.67
13:BM:15:VAL:HG22	13:BM:90:LEU:HD12	1.75	0.67
8:CH:95:TYR:HD2	8:CH:144:ILE:HD13	1.59	0.67
1:DA:418:VAL:HG11	7:DO:268:GLU:HG3	1.76	0.67
2:DB:845:LEU:HD12	12:DL:58:LYS:HD2	1.75	0.67
1:EA:1108:HIS:CG	1:EA:1117:SER:HB3	2.28	0.67
2:FB:104:ILE:HA	2:FB:137:LEU:HD22	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FH:63:LEU:HB3	8:FH:89:LEU:HB3	1.76	0.67
1:AA:209:THR:HG21	5:AE:174:GLN:HG3	1.77	0.67
2:AB:170:CYS:SG	2:AB:171:HIS:N	2.66	0.67
2:AB:754:ALA:O	2:AB:756:LEU:N	2.28	0.67
5:AE:153:HIS:CD2	5:AE:184:VAL:HG11	2.29	0.67
2:BB:210:ARG:NH2	2:BB:625:GLU:OE2	2.27	0.67
2:BB:286:ARG:HG2	13:BM:27:PHE:CD1	2.29	0.67
1:CA:1016:SER:HB2	1:CA:1019:LEU:HD22	1.75	0.67
5:CE:133:GLU:HB3	5:CE:135:PHE:HE1	1.59	0.67
1:DA:618:TYR:HB3	1:DA:670:ILE:HD11	1.77	0.67
1:DA:1470:CYS:SG	1:DA:1471:GLU:N	2.68	0.67
5:DE:137:GLU:O	5:DE:139:ALA:N	2.28	0.67
2:FB:408:LEU:HA	2:FB:411:MET:HG3	1.76	0.67
14:FN:148:ILE:H	14:FN:148:ILE:HD12	1.58	0.67
1:AA:956:ARG:HE	1:AA:979:GLY:HA3	1.60	0.67
1:BA:1217:LEU:HD11	1:BA:1572:ARG:HD2	1.77	0.67
2:BB:152:LEU:HD13	2:BB:443:LYS:HG3	1.76	0.67
3:CC:228:ARG:NH1	14:CN:173:THR:OG1	2.27	0.67
1:DA:669:LEU:HD12	1:DA:786:TYR:CD1	2.29	0.67
2:EB:52:LEU:HB3	2:EB:61:LEU:HD11	1.76	0.67
11:EK:58:GLY:C	11:EK:60:SER:H	2.02	0.67
13:EM:77:VAL:O	14:EN:56:ILE:HD12	1.95	0.67
2:FB:213:HIS:HB2	2:FB:643:PHE:CZ	2.30	0.67
2:FB:857:PRO:HA	2:FB:871:ILE:HD11	1.77	0.67
4:FD:82:LEU:HD22	7:FG:67:ASN:HD22	1.60	0.67
1:AA:1293:HIS:HE1	1:AA:1469:TRP:HB2	1.59	0.67
2:AB:845:LEU:HD12	12:AL:58:LYS:HD2	1.77	0.67
5:AE:54:GLN:HB2	5:AE:57:MET:HE1	1.75	0.67
2:BB:832:TRP:HZ3	2:BB:834:LYS:HA	1.59	0.67
8:BH:93:TYR:HA	8:BH:145:ARG:HG3	1.74	0.67
9:BI:73:LYS:HA	9:BI:76:LEU:HD12	1.76	0.67
2:CB:752:VAL:HG21	2:CB:965:GLU:HG2	1.76	0.67
2:CB:906:ARG:NE	3:CC:95:GLU:OE2	2.26	0.67
1:DA:491:GLU:OE1	1:DA:815:ARG:NH2	2.16	0.67
1:DA:745:PRO:HG2	1:DA:1075:ALA:HB2	1.77	0.67
1:DA:1482:LYS:NZ	2:DB:304:ASP:OD1	2.27	0.67
1:DA:1662:ASN:HB3	7:DG:57:PRO:HD2	1.77	0.67
2:DB:162:PRO:HG3	2:DB:462:GLN:HG3	1.76	0.67
1:EA:1028:GLU:HA	1:EA:1187:ILE:HG12	1.77	0.67
1:FA:574:ASN:OD1	1:FA:574:ASN:N	2.24	0.67
1:BA:618:TYR:O	1:BA:621:THR:OG1	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:833:PRO:HG2	2:BB:836:TRP:CZ2	2.30	0.67
4:BD:16:LEU:O	7:BG:64:GLN:NE2	2.28	0.67
1:DA:97:TYR:O	1:DA:101:SER:OG	2.13	0.67
14:DN:148:ILE:H	14:DN:148:ILE:HD12	1.59	0.67
7:DO:283:GLU:HA	7:DO:286:ILE:HD11	1.77	0.67
2:EB:738:ASP:N	2:EB:738:ASP:OD1	2.28	0.67
1:FA:812:VAL:HG12	1:FA:813:LEU:HD23	1.77	0.67
1:FA:945:CYS:HB3	1:FA:946:LEU:HD23	1.77	0.67
2:FB:612:LYS:NZ	2:FB:624:LEU:O	2.27	0.67
8:FH:57:VAL:HG13	8:FH:144:ILE:HG13	1.75	0.67
8:FH:107:VAL:HG23	8:FH:112:ILE:HA	1.77	0.67
2:AB:562:PRO:HG3	2:AB:588:ILE:HD13	1.77	0.67
1:BA:549:MET:SD	1:BA:553:GLN:HB2	2.34	0.67
1:BA:1215:VAL:HG22	1:BA:1216:THR:H	1.58	0.67
1:BA:1621:PHE:CD1	1:BA:1624:LYS:HE2	2.30	0.67
2:BB:72:VAL:HG22	2:BB:96:SER:HA	1.76	0.67
9:BI:86:CYS:SG	9:BI:94:MET:HE3	2.34	0.67
7:BO:276:LYS:O	7:BO:278:ILE:N	2.28	0.67
1:CA:125:LEU:HD11	1:CA:219:LEU:HD12	1.77	0.67
2:CB:52:LEU:HB3	2:CB:61:LEU:HD11	1.75	0.67
3:CC:255:VAL:HG12	3:CC:256:ILE:HG12	1.76	0.67
8:CH:136:LYS:HE3	13:EM:11:GLU:OE1	1.94	0.67
2:DB:655:TYR:HA	2:DB:688:HIS:CD2	2.29	0.67
1:EA:1261:VAL:HG12	1:EA:1498:ILE:HD12	1.75	0.67
10:FJ:2:ILE:HD12	10:FJ:57:ILE:HD13	1.76	0.67
2:AB:832:TRP:HZ3	2:AB:834:LYS:HA	1.59	0.67
2:BB:623:ASP:HA	2:BB:663:ILE:HG21	1.77	0.67
4:BD:44:ILE:HD13	4:BD:90:LYS:HG3	1.77	0.67
1:CA:461:GLU:HA	1:CA:465:GLY:HA2	1.77	0.67
2:CB:396:ALA:HB1	2:CB:523:GLU:HG3	1.77	0.67
2:CB:629:VAL:HG11	2:CB:636:GLN:HG2	1.77	0.67
2:DB:73:ILE:HD13	2:DB:74:PHE:H	1.59	0.67
7:DG:237:HIS:HB2	7:DG:244:SER:HB3	1.77	0.67
11:DK:58:GLY:C	11:DK:60:SER:H	2.03	0.67
1:EA:669:LEU:HD22	1:EA:673:HIS:ND1	2.10	0.67
1:FA:850:SER:OG	1:FA:851:VAL:N	2.26	0.67
2:FB:229:TYR:HA	2:FB:253:LEU:HD22	1.77	0.67
1:AA:1028:GLU:HA	1:AA:1187:ILE:HG12	1.77	0.66
1:BA:113:VAL:HG13	1:BA:182:LYS:HG3	1.77	0.66
2:BB:833:PRO:O	2:BB:834:LYS:HB3	1.93	0.66
1:CA:945:CYS:HB3	1:CA:946:LEU:HD23	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:10:CYS:SG	10:CJ:43:ARG:NH1	2.67	0.66
2:DB:999:GLN:NE2	14:DN:166:LEU:HD21	2.10	0.66
1:EA:720:PHE:CZ	8:EH:141:TYR:HE2	2.14	0.66
2:EB:863:ASP:HB3	2:EB:866:LEU:HB2	1.75	0.66
13:FM:15:VAL:HG22	13:FM:90:LEU:HD12	1.76	0.66
14:AN:148:ILE:H	14:AN:148:ILE:HD12	1.60	0.66
2:BB:752:VAL:HG21	2:BB:965:GLU:HG2	1.77	0.66
8:CH:106:GLU:HA	8:CH:112:ILE:HG12	1.77	0.66
1:DA:55:GLY:HA2	1:DA:72:CYS:SG	2.35	0.66
1:DA:1322:ILE:HG21	1:DA:1457:ILE:HD11	1.76	0.66
13:EM:15:VAL:HG22	13:EM:90:LEU:HD12	1.75	0.66
1:AA:385:LEU:HD13	1:AA:437:PHE:HA	1.78	0.66
2:AB:210:ARG:NH2	2:AB:625:GLU:OE2	2.28	0.66
2:BB:863:ASP:HB3	2:BB:866:LEU:HB2	1.77	0.66
1:CA:574:ASN:OD1	1:CA:574:ASN:N	2.25	0.66
1:CA:715:LEU:HD22	1:CA:716:PRO:HD2	1.76	0.66
2:DB:520:LEU:CD2	2:DB:530:PRO:HA	2.26	0.66
2:DB:834:LYS:O	2:DB:836:TRP:N	2.28	0.66
4:DD:22:ILE:CD1	7:DG:45:LEU:HA	2.25	0.66
1:EA:850:SER:O	1:EA:852:ASP:N	2.28	0.66
2:EB:212:ASN:OD1	2:EB:212:ASN:N	2.28	0.66
2:EB:790:ASN:OD1	2:EB:792:SER:N	2.28	0.66
12:EL:53:HIS:O	12:EL:55:ILE:N	2.25	0.66
1:FA:974:THR:O	1:FA:974:THR:OG1	2.11	0.66
1:FA:1601:GLN:C	1:FA:1603:MET:H	2.03	0.66
5:AE:5:ASN:HD21	5:AE:52:ARG:HH21	1.40	0.66
1:BA:194:ALA:O	1:BA:198:SER:OG	2.13	0.66
1:BA:581:ILE:HD11	1:BA:605:VAL:HG21	1.77	0.66
1:BA:637:PHE:HD1	1:BA:638:PRO:HD2	1.59	0.66
2:BB:834:LYS:O	2:BB:836:TRP:N	2.28	0.66
11:BK:58:GLY:C	11:BK:60:SER:H	2.02	0.66
1:CA:956:ARG:HE	1:CA:979:GLY:HA3	1.60	0.66
2:CB:972:GLY:HA2	2:CB:977:ILE:HG22	1.78	0.66
3:CC:314:PHE:O	3:CC:317:SER:OG	2.14	0.66
1:DA:1220:PRO:O	1:DA:1223:ARG:N	2.29	0.66
2:DB:788:ILE:HB	2:DB:948:ILE:HB	1.77	0.66
2:DB:904:LYS:C	2:DB:905:TYR:HD1	2.02	0.66
4:ED:22:ILE:O	7:EG:76:LYS:NZ	2.27	0.66
9:EI:13:CYS:SG	9:EI:14:GLY:N	2.66	0.66
9:EI:99:LEU:HB2	9:EI:111:PHE:HZ	1.59	0.66
1:FA:471:MET:HA	1:FA:474:LYS:HE3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:213:HIS:HB2	2:FB:643:PHE:HZ	1.59	0.66
2:FB:906:ARG:NE	3:FC:95:GLU:OE2	2.28	0.66
2:AB:972:GLY:HA2	2:AB:977:ILE:HG22	1.76	0.66
7:AG:153:PHE:HB3	7:AG:243:VAL:HG21	1.76	0.66
1:DA:549:MET:SD	1:DA:553:GLN:HB2	2.35	0.66
5:DE:133:GLU:HB3	5:DE:135:PHE:HE1	1.61	0.66
1:EA:425:ASN:OD1	7:EO:273:VAL:HG12	1.96	0.66
1:FA:522:ALA:HB1	1:FA:532:GLY:HA2	1.77	0.66
1:FA:748:ASN:ND2	1:FA:1072:ASN:OD1	2.28	0.66
3:FC:136:LEU:O	3:FC:203:SER:HA	1.96	0.66
12:FL:53:HIS:O	12:FL:55:ILE:N	2.26	0.66
1:AA:372:LYS:HB3	7:AO:297:LEU:HD22	1.78	0.66
1:AA:618:TYR:O	1:AA:621:THR:OG1	2.13	0.66
1:AA:1662:ASN:HB3	7:AG:57:PRO:HD2	1.77	0.66
2:AB:885:VAL:HG11	12:AL:58:LYS:HB3	1.76	0.66
3:BC:100:ARG:O	3:BC:103:LEU:N	2.21	0.66
4:BD:36:VAL:HG22	7:BG:38:ILE:HG21	1.77	0.66
1:CA:709:ARG:O	1:CA:711:LYS:N	2.23	0.66
9:CI:41:GLN:HB3	9:CI:42:PHE:CE2	2.31	0.66
14:CN:148:ILE:H	14:CN:148:ILE:HD12	1.60	0.66
1:EA:620:ASN:OD1	1:EA:667:ARG:NH2	2.28	0.66
1:FA:385:LEU:HD13	1:FA:437:PHE:HA	1.78	0.66
1:FA:758:GLU:O	1:FA:760:TRP:N	2.28	0.66
3:FC:100:ARG:HH12	3:FC:193:LEU:HA	1.61	0.66
7:FG:88:LYS:O	7:FG:118:CYS:HB3	1.95	0.66
2:AB:971:ALA:O	2:AB:974:LEU:N	2.28	0.66
11:AK:112:THR:N	11:AK:115:ASP:OD2	2.27	0.66
1:CA:641:GLU:HB2	6:CF:99:LEU:HD22	1.77	0.66
3:CC:90:SER:OG	3:CC:91:VAL:N	2.26	0.66
1:DA:1621:PHE:CD1	1:DA:1624:LYS:HE2	2.31	0.66
2:DB:17:ARG:HD2	2:DB:758:ASP:HB3	1.76	0.66
2:FB:752:VAL:HG21	2:FB:965:GLU:HG2	1.78	0.66
7:FG:24:VAL:O	7:FG:128:GLN:NE2	2.28	0.66
13:FM:78:VAL:O	13:FM:91:TYR:N	2.25	0.66
1:AA:11:ILE:HG21	2:AB:1198:TYR:HB2	1.77	0.66
1:AA:40:ASN:OD1	1:AA:40:ASN:N	2.28	0.66
2:AB:1026:ILE:HD11	2:AB:1028:VAL:HG13	1.77	0.66
9:AI:109:THR:OG1	9:AI:124:ASN:ND2	2.29	0.66
2:BB:751:ILE:HG12	2:BB:969:GLY:HA2	1.78	0.66
3:BC:126:PHE:HA	3:BC:130:ASN:ND2	2.09	0.66
14:BN:88:LYS:HD3	14:BN:90:MET:HE2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:19:LEU:HB3	1:CA:24:ILE:HD11	1.76	0.66
1:CA:440:SER:N	1:CA:458:GLN:HE22	1.94	0.66
2:CB:575:HIS:HE2	13:CM:76:TYR:HH	1.41	0.66
2:CB:1110:ILE:H	2:CB:1111:LEU:HD23	1.59	0.66
11:CK:98:GLU:O	11:CK:100:LEU:N	2.28	0.66
14:CN:87:TYR:HB3	14:CN:139:VAL:HG12	1.77	0.66
1:DA:812:VAL:HG12	1:DA:813:LEU:HD23	1.78	0.66
1:DA:1016:SER:HB2	1:DA:1019:LEU:HD22	1.75	0.66
10:DJ:10:CYS:SG	10:DJ:43:ARG:NH1	2.69	0.66
1:FA:669:LEU:HD22	1:FA:673:HIS:ND1	2.11	0.66
1:FA:720:PHE:CZ	8:FH:141:TYR:HE2	2.13	0.66
1:FA:968:SER:CB	2:FB:676:VAL:HG23	2.26	0.66
2:FB:396:ALA:HB1	2:FB:523:GLU:HG3	1.77	0.66
2:AB:213:HIS:HB2	2:AB:643:PHE:CZ	2.31	0.66
2:AB:751:ILE:HG12	2:AB:969:GLY:HA2	1.78	0.66
14:AN:97:SER:HA	14:AN:104:LEU:O	1.95	0.66
7:AO:300:VAL:O	7:AO:302:GLU:N	2.29	0.66
3:BC:333:ILE:CD1	11:BK:47:ILE:HG13	2.26	0.66
13:BM:21:VAL:HB	14:BN:109:LEU:HD11	1.77	0.66
1:CA:194:ALA:O	1:CA:198:SER:OG	2.13	0.66
1:CA:1487:ASN:O	1:CA:1490:GLU:N	2.28	0.66
5:CE:86:PRO:HA	5:CE:113:GLN:HB2	1.76	0.66
1:DA:440:SER:N	1:DA:458:GLN:HE22	1.93	0.66
14:DN:58:PHE:HA	14:DN:139:VAL:HG23	1.76	0.66
1:EA:669:LEU:HD12	1:EA:786:TYR:CD1	2.31	0.66
1:FA:804:GLU:OE1	1:FA:804:GLU:N	2.29	0.66
9:FI:6:SER:H	9:FI:45:LEU:HD22	1.60	0.66
1:AA:30:LYS:NZ	1:AA:51:ASP:OD2	2.19	0.66
1:AA:574:ASN:OD1	1:AA:574:ASN:N	2.29	0.66
1:BA:709:ARG:O	1:BA:711:LYS:N	2.25	0.66
2:BB:699:ILE:HD13	2:BB:699:ILE:H	1.60	0.66
5:BE:41:ASP:OD1	5:BE:41:ASP:N	2.25	0.66
1:CA:1647:ASN:HB3	1:CA:1649:VAL:HG23	1.77	0.66
2:DB:1026:ILE:HD11	2:DB:1028:VAL:HG13	1.78	0.66
8:EH:63:LEU:HB3	8:EH:89:LEU:HB3	1.77	0.66
1:FA:745:PRO:HG2	1:FA:1075:ALA:HB2	1.77	0.66
1:AA:1016:SER:HB2	1:AA:1019:LEU:HD22	1.77	0.65
3:AC:228:ARG:NH1	14:AN:173:THR:OG1	2.25	0.65
13:AM:10:ILE:HB	14:AN:70:LEU:HD21	1.76	0.65
1:BA:722:PRO:HD2	8:BH:46:LEU:HD13	1.78	0.65
1:BA:1273:THR:OG1	1:BA:1291:VAL:HB	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:748:ASN:HD22	1:DA:748:ASN:N	1.93	0.65
2:DB:401:GLU:HA	2:DB:649:MET:HE2	1.77	0.65
8:DH:57:VAL:HG13	8:DH:144:ILE:HG13	1.77	0.65
9:DI:6:SER:H	9:DI:45:LEU:HD22	1.61	0.65
13:DM:77:VAL:O	14:DN:56:ILE:HD12	1.95	0.65
1:EA:618:TYR:O	1:EA:621:THR:OG1	2.13	0.65
2:FB:1110:ILE:H	2:FB:1111:LEU:HD23	1.61	0.65
8:FH:106:GLU:HG2	8:FH:112:ILE:HD11	1.79	0.65
2:AB:66:LYS:C	2:AB:68:ILE:H	2.04	0.65
2:BB:212:ASN:ND2	2:BB:239:VAL:HG22	2.08	0.65
3:BC:229:LEU:O	3:BC:293:ARG:NH1	2.30	0.65
1:CA:974:THR:O	1:CA:974:THR:OG1	2.08	0.65
1:CA:1059:LYS:NZ	1:CA:1178:LEU:O	2.24	0.65
1:CA:1463:ASP:C	1:CA:1465:GLU:H	2.04	0.65
1:DA:385:LEU:HD13	1:DA:437:PHE:HA	1.77	0.65
1:EA:804:GLU:OE1	1:EA:804:GLU:N	2.29	0.65
1:EA:897:SER:HA	1:EA:900:VAL:HG22	1.78	0.65
3:EC:224:THR:HB	10:EJ:10:CYS:HB2	1.78	0.65
1:FA:715:LEU:HD22	1:FA:716:PRO:HD2	1.78	0.65
1:FA:1335:LYS:HD2	1:FA:1338:ARG:HH21	1.61	0.65
1:FA:1463:ASP:C	1:FA:1465:GLU:H	2.05	0.65
2:FB:251:HIS:HB2	2:FB:259:THR:OG1	1.97	0.65
5:FE:93:MET:HG2	5:FE:120:ALA:HB1	1.77	0.65
1:AA:865:ASP:OD2	1:AA:867:ASP:N	2.26	0.65
2:AB:1110:ILE:H	2:AB:1111:LEU:HD23	1.61	0.65
12:AL:40:LEU:HD22	12:AL:44:ASP:HB3	1.78	0.65
2:BB:262:PHE:CE2	2:BB:269:TYR:HB2	2.31	0.65
2:BB:562:PRO:HG3	2:BB:588:ILE:HD13	1.78	0.65
2:BB:612:LYS:NZ	2:BB:624:LEU:O	2.29	0.65
1:CA:1662:ASN:HB3	7:CG:57:PRO:HD2	1.78	0.65
12:CL:34:CYS:SG	12:CL:36:SER:OG	2.54	0.65
3:DC:328:LEU:HD11	11:DK:65:ILE:HD11	1.77	0.65
12:DL:33:GLU:HG2	12:DL:55:ILE:HG12	1.79	0.65
1:EA:469:LYS:NZ	7:EO:314:THR:O	2.30	0.65
2:EB:772:VAL:HG12	2:EB:946:ASP:H	1.62	0.65
13:EM:32:ALA:HB3	14:EN:121:ILE:HD11	1.78	0.65
1:FA:1026:GLN:HA	1:FA:1611:MET:HE3	1.76	0.65
1:AA:581:ILE:HD11	1:AA:605:VAL:HG21	1.79	0.65
1:AA:855:ARG:O	1:AA:858:ALA:N	2.29	0.65
1:AA:1601:GLN:C	1:AA:1603:MET:H	2.05	0.65
11:AK:98:GLU:O	11:AK:100:LEU:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:509:GLU:OE1	1:BA:584:ARG:NH1	2.29	0.65
1:BA:856:GLU:OE1	1:BA:857:ALA:N	2.29	0.65
7:CG:153:PHE:HB3	7:CG:243:VAL:HG21	1.79	0.65
2:DB:38:LEU:O	2:DB:41:ALA:N	2.22	0.65
3:DC:135:SER:HA	3:DC:205:LYS:HA	1.78	0.65
2:EB:104:ILE:HA	2:EB:137:LEU:HD22	1.78	0.65
1:FA:1272:VAL:C	9:FI:48:VAL:HG13	2.20	0.65
1:FA:1273:THR:OG1	1:FA:1291:VAL:HB	1.96	0.65
2:FB:754:ALA:O	2:FB:756:LEU:N	2.28	0.65
3:FC:126:PHE:HA	3:FC:130:ASN:ND2	2.11	0.65
1:AA:399:LEU:HD11	7:AO:270:LEU:HD13	1.77	0.65
1:AA:850:SER:OG	1:AA:851:VAL:N	2.27	0.65
2:AB:134:ARG:HA	2:AB:163:VAL:HG23	1.76	0.65
2:BB:213:HIS:HB2	2:BB:643:PHE:HZ	1.61	0.65
1:CA:1638:SER:HA	1:CA:1641:ILE:HD12	1.77	0.65
1:DA:1058:THR:C	1:DA:1060:GLU:H	2.05	0.65
1:DA:1059:LYS:NZ	1:DA:1178:LEU:O	2.27	0.65
5:DE:147:HIS:HB3	5:DE:150:VAL:HG23	1.78	0.65
2:EB:520:LEU:CD2	2:EB:530:PRO:HA	2.25	0.65
2:EB:751:ILE:HG23	2:EB:752:VAL:HG22	1.76	0.65
1:FA:511:VAL:HG22	1:FA:519:LEU:HD12	1.79	0.65
1:FA:693:GLN:NE2	11:FK:87:GLU:O	2.26	0.65
1:FA:1094:ALA:HB2	1:FA:1132:TYR:HB3	1.79	0.65
5:FE:48:ASP:O	5:FE:50:MET:N	2.28	0.65
5:FE:137:GLU:C	5:FE:139:ALA:H	2.03	0.65
7:FG:105:ILE:HG12	7:FG:116:THR:HB	1.77	0.65
7:FG:237:HIS:HB2	7:FG:244:SER:HB3	1.79	0.65
1:AA:1305:GLU:HG3	9:AI:60:LEU:HG	1.77	0.65
13:BM:32:ALA:HB3	14:BN:121:ILE:HD11	1.77	0.65
1:CA:812:VAL:HG12	1:CA:813:LEU:HD23	1.77	0.65
1:DA:1273:THR:OG1	1:DA:1291:VAL:HB	1.96	0.65
6:DF:147:SER:HB3	6:DF:150:GLU:HG2	1.79	0.65
1:EA:471:MET:HA	1:EA:474:LYS:HE3	1.77	0.65
2:EB:629:VAL:HG11	2:EB:636:GLN:HG2	1.77	0.65
2:EB:674:ILE:HG23	2:EB:688:HIS:HB2	1.77	0.65
5:EE:192:ARG:NH2	5:EE:215:MET:O	2.29	0.65
9:EI:73:LYS:HA	9:EI:76:LEU:HD12	1.78	0.65
1:FA:596:HIS:CD2	1:FA:596:HIS:H	2.15	0.65
2:FB:262:PHE:CZ	2:FB:269:TYR:HB2	2.31	0.65
1:AA:55:GLY:HA2	1:AA:72:CYS:SG	2.37	0.65
1:AA:964:LYS:NZ	1:AA:967:PRO:HA	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:128:ASP:OD1	3:AC:174:ARG:NH1	2.28	0.65
7:AG:237:HIS:HB2	7:AG:244:SER:HB3	1.79	0.65
2:BB:738:ASP:N	2:BB:738:ASP:OD1	2.29	0.65
7:BG:37:CYS:HB3	7:BG:125:TRP:CD1	2.32	0.65
1:CA:123:ARG:HD3	1:CA:337:TYR:CE1	2.32	0.65
1:CA:1273:THR:HA	9:CI:48:VAL:HG22	1.78	0.65
2:CB:98:SER:HA	2:CB:421:LEU:HD21	1.79	0.65
3:CC:85:PHE:O	12:CL:64:LEU:HA	1.97	0.65
1:DA:975:ASP:OD1	1:DA:976:ALA:N	2.29	0.65
1:EA:1662:ASN:HB3	7:EG:57:PRO:HD2	1.77	0.65
2:EB:903:ILE:HD13	2:EB:905:TYR:CE1	2.31	0.65
1:FA:1333:ILE:HD11	1:FA:1483:LEU:HD11	1.78	0.65
2:FB:971:ALA:O	2:FB:974:LEU:N	2.30	0.65
9:FI:13:CYS:SG	9:FI:14:GLY:N	2.69	0.65
1:AA:99:ARG:O	1:AA:109:ARG:NH2	2.29	0.65
2:AB:904:LYS:C	2:AB:905:TYR:HD1	2.04	0.65
2:BB:575:HIS:HE2	13:BM:76:TYR:HH	1.42	0.65
1:CA:1252:ASP:HA	1:CA:1255:CYS:SG	2.36	0.65
1:EA:1288:ARG:HB2	1:EA:1478:ALA:HA	1.78	0.65
1:EA:1601:GLN:C	1:EA:1603:MET:H	2.04	0.65
5:EE:86:PRO:HA	5:EE:113:GLN:HB2	1.79	0.65
12:EL:34:CYS:SG	12:EL:36:SER:OG	2.54	0.65
1:FA:125:LEU:HD11	1:FA:219:LEU:HD12	1.79	0.65
1:FA:1545:ASP:OD1	1:FA:1546:VAL:N	2.27	0.65
7:FO:296:ASP:CG	7:FO:297:LEU:H	2.04	0.65
2:AB:17:ARG:HD2	2:AB:758:ASP:HB3	1.79	0.65
2:AB:262:PHE:CE2	2:AB:269:TYR:HB2	2.32	0.65
2:AB:520:LEU:CD2	2:AB:530:PRO:HA	2.26	0.65
1:BA:809:VAL:HG13	1:BA:813:LEU:HD11	1.79	0.65
2:BB:127:ARG:NH1	2:BB:185:GLU:OE2	2.29	0.65
2:BB:520:LEU:CD2	2:BB:530:PRO:HA	2.27	0.65
5:BE:93:MET:HG2	5:BE:120:ALA:HB1	1.77	0.65
14:BN:148:ILE:HD12	14:BN:148:ILE:H	1.62	0.65
1:CA:964:LYS:NZ	1:CA:967:PRO:HA	2.10	0.65
1:CA:1009:THR:HG21	9:CI:101:LEU:HD23	1.79	0.65
10:CJ:45:CYS:O	10:CJ:48:ARG:HB3	1.96	0.65
1:DA:1272:VAL:HG12	1:DA:1273:THR:H	1.62	0.65
13:DM:40:LEU:HD12	13:DM:41:TYR:H	1.62	0.65
1:EA:1333:ILE:HD11	1:EA:1483:LEU:HD11	1.79	0.65
2:EB:754:ALA:O	2:EB:756:LEU:N	2.30	0.65
2:FB:832:TRP:HZ3	2:FB:834:LYS:HA	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:19:LEU:HB3	1:AA:24:ILE:HD11	1.79	0.65
2:AB:629:VAL:HG11	2:AB:636:GLN:HG2	1.77	0.65
9:AI:99:LEU:HB2	9:AI:111:PHE:HZ	1.61	0.65
13:AM:112:LYS:HG3	13:AM:113:ILE:HD12	1.78	0.65
7:AO:272:ILE:HG22	7:AO:275:ASN:HD21	1.62	0.65
1:BA:560:GLN:O	1:BA:575:LYS:NZ	2.18	0.65
1:BA:1237:GLN:H	1:BA:1544:ASN:HB3	1.60	0.65
3:BC:128:ASP:OD1	3:BC:174:ARG:NH1	2.30	0.65
3:BC:277:ARG:HG3	3:BC:291:LEU:HD13	1.79	0.65
5:BE:54:GLN:HB2	5:BE:57:MET:HE1	1.79	0.65
11:BK:112:THR:N	11:BK:115:ASP:OD2	2.28	0.65
2:CB:833:PRO:O	2:CB:834:LYS:HB3	1.95	0.65
1:DA:194:ALA:O	1:DA:198:SER:OG	2.14	0.65
1:DA:693:GLN:NE2	11:DK:87:GLU:O	2.22	0.65
1:DA:693:GLN:OE1	11:DK:88:PHE:HA	1.97	0.65
1:DA:709:ARG:O	1:DA:711:LYS:N	2.26	0.65
1:DA:1463:ASP:C	1:DA:1465:GLU:H	2.03	0.65
2:DB:474:SER:O	2:DB:476:LEU:N	2.30	0.65
2:DB:790:ASN:OD1	2:DB:792:SER:N	2.29	0.65
6:DF:128:LYS:NZ	6:DF:148:VAL:O	2.26	0.65
1:EA:641:GLU:HB2	6:EF:99:LEU:HD22	1.79	0.65
2:EB:17:ARG:HD2	2:EB:758:ASP:HB3	1.79	0.65
1:FA:1:MET:HE2	7:FG:110:ASP:HB3	1.78	0.65
1:FA:1016:SER:HB2	1:FA:1019:LEU:HD22	1.79	0.65
1:FA:1237:GLN:H	1:FA:1544:ASN:HB3	1.61	0.65
1:FA:1601:GLN:O	1:FA:1603:MET:N	2.26	0.65
2:FB:130:LEU:HD22	2:FB:198:GLY:HA3	1.79	0.65
2:FB:474:SER:C	2:FB:476:LEU:H	2.05	0.65
2:FB:572:PRO:O	2:FB:576:THR:OG1	2.13	0.65
11:FK:98:GLU:O	11:FK:100:LEU:N	2.31	0.65
7:FO:266:GLN:OE1	7:FO:267:ALA:N	2.30	0.65
7:AG:24:VAL:O	7:AG:128:GLN:NE2	2.28	0.64
9:AI:41:GLN:HB3	9:AI:42:PHE:CE2	2.31	0.64
5:BE:156:LEU:HD21	5:BE:197:LYS:HB2	1.79	0.64
1:CA:596:HIS:H	1:CA:596:HIS:CD2	2.16	0.64
7:CG:237:HIS:HB2	7:CG:244:SER:HB3	1.79	0.64
1:DA:19:LEU:HB3	1:DA:24:ILE:HD11	1.80	0.64
1:DA:1012:LYS:HE3	2:DB:515:THR:HG23	1.79	0.64
2:DB:833:PRO:HG2	2:DB:836:TRP:CZ2	2.31	0.64
1:EA:855:ARG:O	1:EA:858:ALA:N	2.30	0.64
8:EH:57:VAL:HG13	8:EH:144:ILE:HG13	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FH:62:SER:OG	8:FH:63:LEU:N	2.29	0.64
12:FL:45:ALA:O	12:FL:47:ARG:N	2.30	0.64
2:BB:242:ASP:OD2	2:BB:414:LYS:NZ	2.26	0.64
2:CB:162:PRO:HG3	2:CB:462:GLN:HG3	1.77	0.64
2:CB:967:LEU:H	2:CB:967:LEU:HD12	1.61	0.64
3:CC:253:PRO:HG2	14:CN:180:PHE:CD1	2.32	0.64
6:CF:128:LYS:NZ	6:CF:148:VAL:O	2.25	0.64
13:CM:32:ALA:HB3	14:CN:121:ILE:HD11	1.79	0.64
14:CN:71:PRO:HB2	14:CN:89:ILE:HD12	1.77	0.64
1:DA:882:ILE:HD13	1:DA:888:LYS:HB3	1.79	0.64
1:DA:974:THR:O	1:DA:974:THR:OG1	2.08	0.64
1:DA:1235:THR:O	1:DA:1544:ASN:ND2	2.30	0.64
9:DI:41:GLN:HB3	9:DI:42:PHE:CE2	2.32	0.64
1:EA:391:THR:HG21	7:EO:284:VAL:HG21	1.77	0.64
1:EA:596:HIS:H	1:EA:596:HIS:CD2	2.15	0.64
1:EA:1545:ASP:OD1	1:EA:1546:VAL:N	2.28	0.64
9:EI:41:GLN:HB3	9:EI:42:PHE:CE2	2.32	0.64
10:EJ:45:CYS:O	10:EJ:48:ARG:HB3	1.96	0.64
1:FA:99:ARG:O	1:FA:109:ARG:NH2	2.30	0.64
1:AA:97:TYR:O	1:AA:101:SER:OG	2.11	0.64
13:AM:78:VAL:O	13:AM:91:TYR:N	2.27	0.64
1:BA:1217:LEU:HD13	1:BA:1573:TYR:HE1	1.62	0.64
1:CA:615:ARG:NH2	2:CB:928:SER:OG	2.31	0.64
2:CB:403:LEU:HD11	2:CB:408:LEU:HB2	1.79	0.64
8:CH:30:SER:HB3	8:CH:36:CYS:HB3	1.79	0.64
2:DB:612:LYS:NZ	2:DB:624:LEU:O	2.30	0.64
2:EB:212:ASN:ND2	2:EB:239:VAL:HG22	2.11	0.64
13:EM:78:VAL:O	13:EM:91:TYR:N	2.26	0.64
11:FK:49:LEU:HD12	11:FK:62:SER:O	1.98	0.64
2:AB:467:THR:HB	2:AB:469:ASN:HD22	1.62	0.64
1:BA:715:LEU:HD22	1:BA:716:PRO:HD2	1.77	0.64
1:BA:804:GLU:OE1	1:BA:804:GLU:N	2.30	0.64
1:BA:1026:GLN:HA	1:BA:1611:MET:HE3	1.78	0.64
1:BA:1216:THR:OG1	1:BA:1234:LYS:HB2	1.97	0.64
2:BB:17:ARG:HD2	2:BB:758:ASP:HB3	1.79	0.64
3:BC:198:PRO:O	10:BJ:64:ASN:ND2	2.27	0.64
4:BD:36:VAL:HG21	7:BG:38:ILE:HD13	1.79	0.64
1:CA:975:ASP:OD1	1:CA:976:ALA:N	2.30	0.64
1:CA:1474:LEU:HD13	1:CA:1475:GLU:H	1.62	0.64
2:CB:699:ILE:H	2:CB:699:ILE:HD13	1.60	0.64
2:DB:567:SER:HB2	14:DN:59:PRO:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DH:118:PHE:HB2	8:DH:121:LEU:HB2	1.78	0.64
3:EC:100:ARG:HH12	3:EC:193:LEU:HA	1.62	0.64
1:FA:964:LYS:NZ	1:FA:967:PRO:HA	2.12	0.64
4:FD:89:LEU:HA	4:FD:92:ILE:HD12	1.79	0.64
1:AA:470:HIS:O	2:AB:1058:GLN:NE2	2.29	0.64
1:AA:945:CYS:HB3	1:AA:946:LEU:HD23	1.78	0.64
1:BA:461:GLU:HA	1:BA:465:GLY:HA2	1.78	0.64
1:CA:1333:ILE:HD11	1:CA:1483:LEU:HD11	1.80	0.64
1:CA:1658:ALA:HB2	7:CG:107:ILE:HD11	1.79	0.64
2:CB:588:ILE:O	2:CB:591:LYS:HG2	1.97	0.64
2:CB:891:GLU:O	2:CB:894:LYS:N	2.30	0.64
1:DA:1508:VAL:O	1:DA:1510:PRO:HD3	1.98	0.64
2:DB:109:SER:OG	2:DB:110:ASN:N	2.28	0.64
2:EB:73:ILE:HD13	2:EB:74:PHE:H	1.62	0.64
2:EB:833:PRO:O	2:EB:834:LYS:HB3	1.97	0.64
1:FA:524:ILE:O	1:FA:554:ARG:NH1	2.29	0.64
1:FA:620:ASN:OD1	1:FA:667:ARG:NH2	2.29	0.64
2:FB:327:LEU:HD13	2:FB:351:GLN:HG2	1.79	0.64
2:FB:886:ASN:O	2:FB:902:SER:N	2.21	0.64
1:AA:960:MET:O	1:AA:963:GLY:N	2.28	0.64
1:BA:897:SER:HA	1:BA:900:VAL:HG22	1.80	0.64
2:CB:772:VAL:HG12	2:CB:946:ASP:H	1.62	0.64
3:CC:225:ALA:HB1	3:CC:302:VAL:HG22	1.80	0.64
8:CH:63:LEU:HB3	8:CH:89:LEU:HB3	1.77	0.64
13:CM:77:VAL:O	14:CN:56:ILE:HD12	1.98	0.64
1:DA:748:ASN:ND2	1:DA:1072:ASN:OD1	2.30	0.64
2:DB:848:ILE:HD11	12:DL:58:LYS:HD3	1.79	0.64
5:FE:55:ARG:NH2	5:FE:113:GLN:OE1	2.31	0.64
2:AB:97:VAL:HG13	2:AB:141:LEU:HD11	1.80	0.64
13:BM:12:ILE:HG21	14:BN:68:LYS:HA	1.79	0.64
1:CA:1557:ALA:HB2	5:CE:150:VAL:HG22	1.80	0.64
2:CB:134:ARG:HA	2:CB:163:VAL:HG23	1.77	0.64
8:CH:107:VAL:HG23	8:CH:112:ILE:HA	1.79	0.64
1:DA:96:ILE:HG23	1:DA:228:LEU:HD21	1.78	0.64
8:DH:30:SER:HB3	8:DH:36:CYS:HB3	1.80	0.64
1:EA:721:LYS:HG2	1:EA:722:PRO:HA	1.78	0.64
1:EA:1601:GLN:O	1:EA:1603:MET:N	2.28	0.64
1:EA:1647:ASN:HB3	1:EA:1649:VAL:HG23	1.79	0.64
3:EC:128:ASP:OD1	3:EC:174:ARG:NH1	2.28	0.64
4:ED:36:VAL:HG21	7:EG:38:ILE:HD13	1.79	0.64
2:FB:782:ASP:HB3	2:FB:788:ILE:HG12	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:790:ASN:OD1	2:FB:792:SER:N	2.31	0.64
1:AA:620:ASN:OD1	1:AA:667:ARG:NH2	2.30	0.64
1:AA:818:THR:HG23	2:AB:780:GLY:HA3	1.79	0.64
1:BA:945:CYS:HB3	1:BA:946:LEU:HD23	1.80	0.64
5:BE:137:GLU:O	5:BE:139:ALA:N	2.30	0.64
1:CA:637:PHE:HD1	1:CA:638:PRO:HD2	1.63	0.64
7:CG:88:LYS:O	7:CG:118:CYS:HB3	1.97	0.64
12:CL:30:ILE:O	12:CL:57:LEU:HD12	1.97	0.64
2:DB:833:PRO:O	2:DB:834:LYS:HB3	1.97	0.64
1:EA:1335:LYS:HD2	1:EA:1338:ARG:NH2	2.12	0.64
2:EB:18:THR:HA	2:EB:21:ARG:HH21	1.62	0.64
14:FN:55:LEU:HD12	14:FN:56:ILE:H	1.61	0.64
2:BB:655:TYR:HA	2:BB:688:HIS:CD2	2.30	0.64
1:DA:102:CYS:HB2	1:DA:109:ARG:HG2	1.80	0.64
1:DA:1590:THR:OG1	5:DE:212:ARG:NH2	2.30	0.64
2:DB:104:ILE:HA	2:DB:137:LEU:HD22	1.79	0.64
1:EA:141:LEU:HG	1:EA:142:GLY:H	1.62	0.64
1:EA:461:GLU:HA	1:EA:465:GLY:HA2	1.79	0.64
1:EA:1293:HIS:HE1	1:EA:1469:TRP:HB2	1.63	0.64
1:EA:1563:VAL:HA	1:EA:1566:ILE:HD11	1.80	0.64
2:EB:675:ALA:O	2:EB:690:GLU:HG2	1.98	0.64
3:EC:325:ALA:O	3:EC:328:LEU:N	2.31	0.64
1:FA:1242:ILE:HD11	1:FA:1517:ARG:HB3	1.80	0.64
2:FB:751:ILE:HG12	2:FB:969:GLY:HA2	1.80	0.64
2:FB:887:LEU:O	2:FB:888:ILE:HD12	1.98	0.64
2:FB:1002:LYS:NZ	14:FN:166:LEU:HD13	2.13	0.64
3:FC:201:GLU:O	3:FC:202:ILE:HD12	1.98	0.64
4:FD:22:ILE:HD12	7:FG:45:LEU:HA	1.80	0.64
2:AB:262:PHE:CZ	2:AB:269:TYR:HB2	2.33	0.64
1:BA:549:MET:SD	1:BA:553:GLN:NE2	2.71	0.64
2:BB:972:GLY:HA2	2:BB:977:ILE:HG22	1.80	0.64
3:BC:224:THR:HB	10:BJ:10:CYS:HB2	1.80	0.64
2:CB:17:ARG:HD2	2:CB:758:ASP:HB3	1.80	0.64
8:CH:63:LEU:HB2	8:CH:88:SER:HB2	1.80	0.64
1:DA:1215:VAL:HG22	1:DA:1216:THR:H	1.63	0.64
2:DB:776:ILE:HB	2:DB:1026:ILE:HD13	1.80	0.64
2:DB:891:GLU:O	2:DB:894:LYS:N	2.26	0.64
2:DB:1046:VAL:HG22	2:DB:1047:ARG:H	1.63	0.64
2:EB:1037:ARG:O	2:EB:1039:MET:N	2.30	0.64
7:EG:237:HIS:HB2	7:EG:244:SER:HB3	1.80	0.64
14:EN:105:SER:OG	14:EN:132:GLN:NE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:655:TYR:HD1	2:FB:688:HIS:HE2	1.46	0.64
2:FB:843:ASP:OD1	2:FB:845:LEU:HG	1.98	0.64
1:BA:1463:ASP:C	1:BA:1465:GLU:H	2.06	0.63
5:CE:198:ILE:HD11	5:CE:212:ARG:HG2	1.80	0.63
1:DA:349:LEU:HD12	1:DA:351:LYS:HE3	1.80	0.63
1:DA:1003:ARG:CZ	2:DB:520:LEU:HD22	2.28	0.63
1:DA:1202:LEU:HD11	9:DI:101:LEU:HD11	1.79	0.63
5:DE:137:GLU:C	5:DE:139:ALA:H	2.04	0.63
1:EA:440:SER:N	1:EA:458:GLN:HE22	1.95	0.63
2:EB:848:ILE:HD11	12:EL:58:LYS:HD3	1.80	0.63
10:FJ:7:CYS:SG	10:FJ:8:PHE:N	2.71	0.63
13:FM:112:LYS:HG3	13:FM:113:ILE:HD12	1.80	0.63
1:AA:1059:LYS:NZ	1:AA:1178:LEU:O	2.27	0.63
1:AA:1252:ASP:HA	1:AA:1255:CYS:SG	2.38	0.63
2:AB:857:PRO:HA	2:AB:871:ILE:HD11	1.79	0.63
9:AI:13:CYS:SG	9:AI:14:GLY:N	2.67	0.63
1:BA:596:HIS:H	1:BA:596:HIS:CD2	2.17	0.63
12:BL:45:ALA:O	12:BL:47:ARG:N	2.32	0.63
1:CA:719:ILE:HG12	8:CH:97:MET:HG2	1.81	0.63
1:CA:1601:GLN:C	1:CA:1603:MET:H	2.06	0.63
1:DA:519:LEU:O	1:DA:523:VAL:HG23	1.98	0.63
2:DB:72:VAL:HG22	2:DB:96:SER:HA	1.79	0.63
2:DB:832:TRP:CZ3	2:DB:834:LYS:HA	2.32	0.63
9:DI:38:PRO:HG2	9:DI:41:GLN:HB2	1.79	0.63
2:EB:1143:THR:HG23	7:EG:18:LYS:HE2	1.81	0.63
1:FA:1059:LYS:NZ	1:FA:1178:LEU:O	2.26	0.63
1:FA:1263:LEU:C	1:FA:1265:GLU:H	2.06	0.63
3:FC:197:ARG:HG2	10:FJ:61:LEU:HD22	1.80	0.63
2:AB:52:LEU:HB3	2:AB:61:LEU:HD11	1.78	0.63
2:AB:213:HIS:HB2	2:AB:643:PHE:HZ	1.63	0.63
2:AB:1195:ARG:HH21	2:AB:1197:ARG:HD2	1.64	0.63
1:BA:1305:GLU:HG3	9:BI:60:LEU:HG	1.79	0.63
2:CB:783:MET:O	2:CB:785:ASP:N	2.32	0.63
2:DB:897:GLU:HB3	12:DL:43:THR:HG23	1.80	0.63
11:DK:49:LEU:HD12	11:DK:62:SER:O	1.98	0.63
1:EA:1215:VAL:HG22	1:EA:1216:THR:H	1.64	0.63
2:EB:311:ARG:HH22	9:EI:8:ILE:HD12	1.63	0.63
3:EC:77:SER:O	3:EC:210:LEU:HA	1.98	0.63
1:FA:1246:VAL:HG13	1:FA:1250:GLN:HB3	1.80	0.63
1:AA:1661:PRO:HA	7:AG:102:GLU:HA	1.79	0.63
7:AG:250:ILE:HG22	7:AG:251:SER:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1326:GLU:OE1	1:DA:1454:HIS:HB3	1.99	0.63
1:DA:1601:GLN:C	1:DA:1603:MET:H	2.06	0.63
2:DB:262:PHE:CE2	2:DB:269:TYR:HB2	2.33	0.63
2:EB:713:PRO:HA	2:EB:716:MET:HE2	1.80	0.63
2:EB:728:THR:OG1	2:EB:766:PRO:O	2.13	0.63
3:EC:101:ILE:HA	3:EC:104:VAL:HG23	1.80	0.63
2:FB:72:VAL:HG22	2:FB:96:SER:HA	1.80	0.63
2:FB:162:PRO:HG3	2:FB:462:GLN:HG3	1.79	0.63
3:FC:100:ARG:O	3:FC:103:LEU:N	2.24	0.63
3:AC:126:PHE:HA	3:AC:130:ASN:ND2	2.13	0.63
8:AH:107:VAL:HG23	8:AH:112:ILE:HA	1.80	0.63
1:BA:511:VAL:HG22	1:BA:519:LEU:HD12	1.81	0.63
2:BB:295:ASN:HB3	14:BN:104:LEU:HD13	1.79	0.63
8:BH:62:SER:OG	8:BH:63:LEU:N	2.31	0.63
1:CA:1620:GLN:O	1:CA:1623:THR:N	2.32	0.63
7:CG:139:ILE:HD12	7:CG:140:GLN:H	1.63	0.63
9:CI:38:PRO:HG2	9:CI:41:GLN:HB2	1.79	0.63
1:DA:1264:SER:O	9:DI:56:PHE:HB3	1.98	0.63
3:DC:174:ARG:O	3:DC:178:THR:OG1	2.12	0.63
4:DD:22:ILE:HG23	7:DG:44:ALA:O	1.98	0.63
8:DH:38:LEU:HD11	8:DH:123:MET:HG3	1.80	0.63
1:EA:1305:GLU:HG3	9:EI:60:LEU:HG	1.79	0.63
4:FD:36:VAL:HG21	7:FG:38:ILE:HD13	1.79	0.63
9:FI:86:CYS:SG	9:FI:94:MET:HE3	2.38	0.63
1:AA:510:PRO:O	1:AA:515:ASN:ND2	2.30	0.63
5:AE:133:GLU:HB3	5:AE:135:PHE:HE1	1.63	0.63
1:BA:669:LEU:HD13	1:BA:673:HIS:HB3	1.80	0.63
2:BB:754:ALA:O	2:BB:756:LEU:N	2.31	0.63
1:CA:1026:GLN:HA	1:CA:1611:MET:HE3	1.81	0.63
1:CA:1195:GLU:O	1:CA:1198:THR:OG1	2.15	0.63
1:CA:1246:VAL:HG22	1:CA:1250:GLN:NE2	2.14	0.63
3:CC:164:ALA:HB2	3:CC:191:ILE:HB	1.80	0.63
1:DA:1136:VAL:HG11	1:DA:1140:PHE:HD2	1.63	0.63
1:DA:1173:LYS:O	1:DA:1177:SER:OG	2.13	0.63
2:DB:403:LEU:HD11	2:DB:408:LEU:HB2	1.81	0.63
2:DB:699:ILE:HD13	2:DB:699:ILE:H	1.62	0.63
3:DC:255:VAL:HG12	3:DC:256:ILE:HG12	1.79	0.63
7:DG:40:ARG:NH1	7:DG:123:TYR:OH	2.31	0.63
11:DK:49:LEU:HD11	11:DK:54:THR:HG21	1.81	0.63
8:EH:106:GLU:HA	8:EH:112:ILE:HG12	1.78	0.63
2:FB:904:LYS:C	2:FB:905:TYR:HD1	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FM:77:VAL:O	14:FN:56:ILE:HD12	1.98	0.63
1:AA:1263:LEU:HB2	1:AA:1496:SER:HB2	1.80	0.63
2:AB:738:ASP:N	2:AB:738:ASP:OD1	2.32	0.63
8:AH:106:GLU:HA	8:AH:112:ILE:HG12	1.80	0.63
13:AM:12:ILE:HG21	14:AN:68:LYS:HA	1.81	0.63
1:BA:19:LEU:HB3	1:BA:24:ILE:HD11	1.80	0.63
1:BA:975:ASP:OD1	1:BA:976:ALA:N	2.31	0.63
2:BB:749:THR:OG1	2:BB:763:ASP:OD1	2.17	0.63
3:BC:101:ILE:HA	3:BC:104:VAL:HG23	1.79	0.63
10:CJ:7:CYS:SG	10:CJ:8:PHE:N	2.71	0.63
1:DA:511:VAL:HG22	1:DA:519:LEU:HD12	1.81	0.63
1:DA:1563:VAL:HA	1:DA:1566:ILE:HD11	1.81	0.63
2:DB:554:GLN:HA	2:DB:646:HIS:CD2	2.33	0.63
2:DB:749:THR:OG1	2:DB:763:ASP:OD1	2.17	0.63
1:EA:1454:HIS:HB2	1:EA:1457:ILE:HG13	1.79	0.63
2:EB:857:PRO:HA	2:EB:871:ILE:HD11	1.80	0.63
2:EB:906:ARG:NE	3:EC:95:GLU:OE2	2.32	0.63
2:FB:718:GLN:CD	2:FB:920:ARG:HA	2.23	0.63
2:FB:833:PRO:O	2:FB:834:LYS:HB3	1.97	0.63
8:FH:106:GLU:HA	8:FH:112:ILE:HG12	1.80	0.63
1:AA:82:PRO:HG2	1:AA:396:ILE:HD12	1.81	0.63
3:AC:164:ALA:HB2	3:AC:191:ILE:HB	1.80	0.63
1:BA:1288:ARG:HB2	1:BA:1478:ALA:HA	1.81	0.63
2:BB:783:MET:O	2:BB:785:ASP:N	2.32	0.63
6:BF:128:LYS:NZ	6:BF:148:VAL:O	2.31	0.63
10:BJ:2:ILE:HG12	10:BJ:3:VAL:H	1.62	0.63
2:CB:327:LEU:HD13	2:CB:351:GLN:HG2	1.78	0.63
2:CB:833:PRO:HG2	2:CB:836:TRP:CZ2	2.33	0.63
2:CB:1178:ILE:HD12	2:CB:1179:PRO:O	1.99	0.63
3:CC:128:ASP:OD1	3:CC:174:ARG:NH1	2.29	0.63
7:CG:40:ARG:HD3	7:CG:123:TYR:HE1	1.64	0.63
1:DA:58:LEU:HD11	7:DO:295:LEU:HD11	1.79	0.63
1:DA:125:LEU:HD11	1:DA:219:LEU:HD12	1.79	0.63
3:DC:224:THR:HB	10:DJ:10:CYS:HB2	1.81	0.63
12:DL:34:CYS:SG	12:DL:36:SER:OG	2.57	0.63
1:EA:11:ILE:HG21	2:EB:1198:TYR:HB2	1.79	0.63
1:EA:966:LEU:HD12	1:EA:967:PRO:HD2	1.80	0.63
1:EA:1456:PHE:CB	1:EA:1474:LEU:HD11	2.28	0.63
2:EB:327:LEU:HD13	2:EB:351:GLN:HG2	1.81	0.63
2:EB:403:LEU:HD11	2:EB:408:LEU:HB2	1.79	0.63
2:EB:1017:ALA:O	3:EC:65:ASN:ND2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1322:ILE:HG21	1:FA:1457:ILE:HD11	1.81	0.63
1:FA:1647:ASN:HD22	1:FA:1648:ASN:H	1.47	0.63
2:FB:520:LEU:CD2	2:FB:530:PRO:HA	2.28	0.63
9:FI:99:LEU:HB2	9:FI:111:PHE:HZ	1.63	0.63
1:AA:1236:PRO:HB2	1:AA:1524:VAL:HG23	1.80	0.63
1:AA:1508:VAL:O	1:AA:1510:PRO:HD3	1.99	0.63
1:AA:1638:SER:HA	1:AA:1641:ILE:HD12	1.79	0.63
2:AB:898:LEU:HD22	12:AL:46:VAL:HG22	1.80	0.63
2:BB:811:LEU:HD13	2:BB:823:GLN:HE21	1.64	0.63
5:BE:86:PRO:HA	5:BE:113:GLN:HB2	1.80	0.63
8:BH:95:TYR:HD2	8:BH:144:ILE:HD13	1.64	0.63
2:CB:773:VAL:HG21	2:CB:1031:VAL:HB	1.81	0.63
1:DA:113:VAL:HG13	1:DA:182:LYS:HG3	1.80	0.63
1:DA:729:LYS:HD2	8:DH:120:GLY:HA3	1.80	0.63
1:DA:752:LYS:HG3	1:DA:768:GLU:HA	1.80	0.63
5:DE:5:ASN:ND2	5:DE:52:ARG:HH21	1.93	0.63
7:DG:88:LYS:O	7:DG:118:CYS:HB3	1.98	0.63
8:DH:95:TYR:HD2	8:DH:144:ILE:HD13	1.63	0.63
1:EA:964:LYS:HZ1	1:EA:967:PRO:HA	1.64	0.63
2:EB:104:ILE:HB	2:EB:169:ARG:HG3	1.79	0.63
2:EB:588:ILE:O	2:EB:591:LYS:HG2	1.99	0.63
8:EH:13:SER:N	8:EH:27:GLU:O	2.28	0.63
14:EN:148:ILE:HD12	14:EN:148:ILE:H	1.63	0.63
2:FB:17:ARG:HD2	2:FB:758:ASP:HB3	1.80	0.63
13:FM:81:PHE:HD1	13:FM:88:ILE:HB	1.63	0.63
1:AA:985:ARG:HD2	1:AA:987:TYR:HB3	1.81	0.62
1:AA:1463:ASP:C	1:AA:1465:GLU:H	2.06	0.62
2:AB:718:GLN:CD	2:AB:920:ARG:HA	2.24	0.62
1:BA:756:LYS:HG2	9:BI:85:LYS:NZ	2.14	0.62
2:BB:335:ARG:NH1	13:BM:113:ILE:HG23	2.14	0.62
9:BI:6:SER:H	9:BI:45:LEU:HD22	1.64	0.62
1:CA:669:LEU:HD13	1:CA:673:HIS:HB3	1.80	0.62
1:CA:1215:VAL:HG22	1:CA:1216:THR:H	1.63	0.62
1:CA:1247:SER:OG	1:CA:1249:GLU:N	2.32	0.62
1:CA:1545:ASP:OD1	1:CA:1546:VAL:N	2.30	0.62
8:CH:38:LEU:HD11	8:CH:123:MET:HG3	1.80	0.62
11:CK:125:MET:HA	11:CK:128:CYS:SG	2.39	0.62
1:DA:1216:THR:OG1	1:DA:1234:LYS:HB2	1.99	0.62
9:DI:72:LYS:HB2	9:DI:73:LYS:HE3	1.81	0.62
2:EB:109:SER:OG	2:EB:110:ASN:N	2.31	0.62
1:FA:753:ASN:ND2	1:FA:767:ASN:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:210:ARG:NH2	2:FB:625:GLU:OE2	2.32	0.62
4:FD:22:ILE:O	7:FG:76:LYS:NZ	2.31	0.62
1:AA:850:SER:O	1:AA:852:ASP:N	2.32	0.62
1:AA:1247:SER:OG	1:AA:1249:GLU:N	2.30	0.62
2:AB:22:GLU:OE2	10:AJ:55:ASP:N	2.29	0.62
12:AL:53:HIS:O	12:AL:55:ILE:N	2.28	0.62
1:BA:964:LYS:HZ1	1:BA:967:PRO:HA	1.63	0.62
1:BA:1273:THR:HA	9:BI:48:VAL:HG22	1.80	0.62
1:BA:1289:SER:HA	1:BA:1475:GLU:OE1	1.98	0.62
2:BB:38:LEU:O	2:BB:41:ALA:N	2.24	0.62
2:BB:1046:VAL:HG22	2:BB:1047:ARG:H	1.64	0.62
6:BF:101:ILE:HG21	6:BF:120:ILE:HG21	1.80	0.62
1:CA:558:ALA:O	1:CA:561:LEU:HG	1.99	0.62
3:CC:45:SER:OG	3:CC:271:ARG:NH2	2.27	0.62
3:EC:255:VAL:HG12	3:EC:256:ILE:HG12	1.81	0.62
12:EL:45:ALA:O	12:EL:47:ARG:N	2.32	0.62
1:FA:480:ALA:HB2	2:FB:1046:VAL:HG23	1.81	0.62
1:FA:1482:LYS:NZ	2:FB:304:ASP:OD1	2.31	0.62
2:FB:38:LEU:O	2:FB:41:ALA:N	2.24	0.62
1:AA:782:ASP:OD1	1:AA:783:LYS:N	2.31	0.62
1:AA:1637:PRO:HG3	1:AA:1647:ASN:HD21	1.64	0.62
3:AC:100:ARG:HH12	3:AC:193:LEU:HA	1.64	0.62
3:AC:101:ILE:HA	3:AC:104:VAL:HG23	1.80	0.62
3:AC:225:ALA:HB1	3:AC:302:VAL:HG22	1.81	0.62
8:AH:38:LEU:HD11	8:AH:123:MET:HG3	1.81	0.62
3:BC:201:GLU:O	3:BC:202:ILE:HD12	2.00	0.62
1:CA:745:PRO:HG2	1:CA:1075:ALA:HB2	1.81	0.62
1:CA:818:THR:HG23	2:CB:780:GLY:HA3	1.81	0.62
1:CA:874:GLU:O	1:CA:878:ARG:HB2	1.99	0.62
2:CB:228:SER:HB2	2:CB:253:LEU:HD13	1.81	0.62
2:CB:520:LEU:CD2	2:CB:530:PRO:HA	2.29	0.62
1:DA:82:PRO:HG2	1:DA:396:ILE:HD12	1.80	0.62
1:DA:387:SER:HA	1:DA:390:LEU:HD12	1.79	0.62
1:DA:487:ASP:OD1	2:DB:781:TYR:OH	2.16	0.62
1:DA:1526:PHE:O	1:DA:1529:MET:N	2.32	0.62
2:DB:104:ILE:HB	2:DB:169:ARG:HG3	1.82	0.62
8:DH:63:LEU:HB3	8:DH:89:LEU:HB3	1.80	0.62
1:EA:113:VAL:HG13	1:EA:182:LYS:HG3	1.79	0.62
1:EA:545:SER:O	1:EA:545:SER:OG	2.18	0.62
1:EA:1026:GLN:HA	1:EA:1611:MET:HE3	1.82	0.62
2:EB:562:PRO:HG3	2:EB:588:ILE:HD13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:776:ILE:HB	2:EB:1026:ILE:HD13	1.80	0.62
4:ED:82:LEU:HD22	7:EG:67:ASN:HD22	1.63	0.62
11:EK:112:THR:N	11:EK:115:ASP:OD2	2.32	0.62
1:FA:882:ILE:HD13	1:FA:888:LYS:HB3	1.79	0.62
2:FB:467:THR:HB	2:FB:469:ASN:HD22	1.64	0.62
5:FE:192:ARG:NH2	5:FE:215:MET:O	2.33	0.62
1:AA:1298:ASP:N	1:AA:1298:ASP:OD1	2.30	0.62
3:AC:229:LEU:O	3:AC:293:ARG:NH1	2.33	0.62
6:BF:101:ILE:HD13	6:BF:120:ILE:HG22	1.81	0.62
7:BG:40:ARG:NH1	7:BG:123:TYR:OH	2.31	0.62
1:CA:387:SER:HA	1:CA:390:LEU:HD12	1.80	0.62
2:CB:829:ASN:HB2	1:DA:538:ASN:HD21	1.64	0.62
1:DA:809:VAL:HG13	1:DA:813:LEU:HD11	1.80	0.62
1:DA:1294:MET:HG2	1:DA:1296:PHE:CE1	2.35	0.62
1:DA:1601:GLN:O	1:DA:1603:MET:N	2.31	0.62
2:DB:843:ASP:OD1	2:DB:845:LEU:HG	1.99	0.62
2:DB:1110:ILE:H	2:DB:1111:LEU:HD23	1.63	0.62
1:EA:975:ASP:OD1	1:EA:976:ALA:N	2.32	0.62
1:EA:1022:CYS:SG	1:EA:1615:TYR:OH	2.56	0.62
8:EH:107:VAL:HG23	8:EH:112:ILE:HA	1.80	0.62
1:FA:1344:ILE:HD13	2:FB:329:TYR:HE2	1.64	0.62
3:FC:229:LEU:O	3:FC:293:ARG:NH1	2.33	0.62
4:FD:33:THR:O	4:FD:36:VAL:HB	1.99	0.62
1:AA:641:GLU:HB2	6:AF:99:LEU:HD22	1.82	0.62
4:BD:24:ALA:HA	7:BG:43:ILE:HA	1.79	0.62
8:BH:60:ALA:O	8:BH:140:ALA:HB1	2.00	0.62
8:BH:118:PHE:HB2	8:BH:121:LEU:HB2	1.81	0.62
13:BM:77:VAL:O	14:BN:56:ILE:HD12	1.99	0.62
14:BN:58:PHE:HA	14:BN:139:VAL:HG23	1.80	0.62
1:DA:1273:THR:HA	9:DI:48:VAL:HG22	1.82	0.62
2:DB:751:ILE:HG23	2:DB:752:VAL:HG22	1.80	0.62
4:DD:22:ILE:HD12	7:DG:45:LEU:HA	1.81	0.62
1:EA:928:MET:HG2	2:EB:955:PRO:HG3	1.81	0.62
2:EB:105:ALA:O	2:EB:135:GLY:HA3	1.99	0.62
2:EB:904:LYS:C	2:EB:905:TYR:HD1	2.08	0.62
1:FA:1118:VAL:HG11	5:FE:154:ILE:HG13	1.80	0.62
2:FB:501:ARG:HG3	2:FB:699:ILE:HD12	1.82	0.62
7:FG:40:ARG:NH1	7:FG:123:TYR:OH	2.33	0.62
7:FO:272:ILE:HG13	7:FO:274:SER:H	1.62	0.62
1:AA:74:GLY:HA3	1:AA:364:PRO:HB3	1.82	0.62
9:BI:41:GLN:HB3	9:BI:42:PHE:CE2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BL:40:LEU:HD22	12:BL:44:ASP:HB3	1.81	0.62
1:CA:1324:LEU:HD22	1:CA:1492:ILE:HG13	1.82	0.62
1:DA:67:LEU:HD13	1:DA:71:PHE:HB3	1.80	0.62
1:DA:825:ALA:HB1	2:DB:776:ILE:HD11	1.82	0.62
1:DA:1246:VAL:HG13	1:DA:1250:GLN:HB3	1.80	0.62
2:DB:850:THR:N	2:DB:882:ILE:HG13	2.12	0.62
2:DB:934:ILE:HG21	3:DC:73:SER:HB3	1.81	0.62
2:DB:967:LEU:H	2:DB:967:LEU:HD12	1.62	0.62
6:DF:101:ILE:HD13	6:DF:120:ILE:HG22	1.81	0.62
1:EA:1202:LEU:HD11	9:EI:101:LEU:HD11	1.80	0.62
1:EA:1246:VAL:HG22	1:EA:1250:GLN:NE2	2.14	0.62
2:EB:431:ASP:HB3	2:EB:438:ILE:HD11	1.82	0.62
2:EB:893:ASN:O	2:EB:893:ASN:ND2	2.33	0.62
1:FA:618:TYR:HB3	1:FA:670:ILE:HD11	1.80	0.62
2:FB:22:GLU:OE2	10:FJ:55:ASP:N	2.32	0.62
2:FB:66:LYS:C	2:FB:68:ILE:H	2.06	0.62
3:FC:328:LEU:HD11	11:FK:65:ILE:HD11	1.82	0.62
1:AA:729:LYS:HD2	8:AH:120:GLY:HA3	1.81	0.62
1:AA:1217:LEU:HD11	1:AA:1572:ARG:HD2	1.81	0.62
1:BA:425:ASN:OD1	7:BO:274:SER:N	2.32	0.62
1:BA:669:LEU:HD22	1:BA:673:HIS:ND1	2.15	0.62
1:BA:843:ARG:NH1	2:BB:988:GLU:OE2	2.28	0.62
2:BB:848:ILE:HD11	12:BL:58:LYS:HD3	1.81	0.62
14:BN:55:LEU:HB3	14:BN:136:VAL:HG22	1.82	0.62
2:CB:584:CYS:HB2	2:CB:598:HIS:ND1	2.14	0.62
3:CC:229:LEU:O	3:CC:293:ARG:NH1	2.33	0.62
8:CH:60:ALA:O	8:CH:140:ALA:HB1	2.00	0.62
1:DA:211:THR:O	1:DA:214:ASP:N	2.32	0.62
1:DA:964:LYS:HZ1	1:DA:967:PRO:HA	1.65	0.62
1:DA:1585:ILE:O	1:DA:1589:MET:HG3	2.00	0.62
2:DB:127:ARG:NH1	2:DB:185:GLU:OE2	2.30	0.62
3:DC:45:SER:OG	3:DC:271:ARG:NH2	2.28	0.62
11:DK:46:LYS:HE3	11:DK:66:VAL:O	2.00	0.62
1:EA:99:ARG:O	1:EA:109:ARG:NH2	2.33	0.62
1:EA:388:LYS:HG2	7:EO:281:ASP:OD1	2.00	0.62
2:EB:228:SER:HB2	2:EB:253:LEU:HD13	1.82	0.62
1:FA:1202:LEU:HD11	9:FI:101:LEU:HD11	1.80	0.62
1:FA:1447:GLN:HG3	1:FA:1460:TYR:HB3	1.80	0.62
2:FB:429:ARG:O	2:FB:433:ASN:ND2	2.28	0.62
2:FB:738:ASP:OD1	2:FB:738:ASP:N	2.32	0.62
1:BA:1136:VAL:HG11	1:BA:1140:PHE:HD2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1342:PRO:HD2	2:BB:272:PRO:HG3	1.82	0.62
1:BA:1657:LEU:HD11	6:BF:135:ARG:HB2	1.80	0.62
5:BE:137:GLU:C	5:BE:139:ALA:H	2.08	0.62
14:CN:179:ASP:HB2	14:CN:180:PHE:CD1	2.34	0.62
1:DA:620:ASN:OD1	1:DA:667:ARG:NH2	2.32	0.62
1:DA:722:PRO:HD2	8:DH:46:LEU:HD13	1.82	0.62
1:DA:960:MET:HE1	1:DA:967:PRO:HD3	1.81	0.62
2:DB:1178:ILE:HD12	2:DB:1179:PRO:O	2.00	0.62
8:DH:76:THR:HG22	8:DH:77:ARG:H	1.65	0.62
1:EA:1060:GLU:O	1:EA:1063:MET:N	2.32	0.62
1:EA:1247:SER:OG	1:EA:1249:GLU:N	2.30	0.62
1:FA:672:ASP:HB2	2:FB:783:MET:HE3	1.82	0.62
2:FB:35:PHE:HB3	2:FB:38:LEU:HD23	1.82	0.62
5:FE:54:GLN:HB2	5:FE:57:MET:HE1	1.81	0.62
1:AA:836:THR:OG1	1:AA:837:ALA:N	2.31	0.62
5:AE:86:PRO:HA	5:AE:113:GLN:HB2	1.82	0.62
14:AN:71:PRO:HB2	14:AN:89:ILE:HD12	1.82	0.62
7:AO:275:ASN:O	7:BG:159:LYS:NZ	2.32	0.62
1:BA:1236:PRO:HB2	1:BA:1524:VAL:HG23	1.81	0.62
4:BD:19:PRO:HB3	7:BG:46:TYR:O	2.00	0.62
2:CB:22:GLU:OE2	10:CJ:55:ASP:N	2.30	0.62
5:CE:54:GLN:HB2	5:CE:57:MET:HE1	1.82	0.62
2:DB:738:ASP:N	2:DB:738:ASP:OD1	2.31	0.62
1:EA:1470:CYS:SG	1:EA:1471:GLU:N	2.73	0.62
1:EA:1647:ASN:HD22	1:EA:1648:ASN:H	1.48	0.62
3:EC:85:PHE:O	12:EL:64:LEU:HA	1.99	0.62
5:EE:156:LEU:HD21	5:EE:197:LYS:HB2	1.82	0.62
1:FA:1344:ILE:HG22	2:FB:334:PHE:HE2	1.63	0.62
1:FA:1526:PHE:O	1:FA:1529:MET:N	2.32	0.62
2:FB:772:VAL:HG12	2:FB:946:ASP:H	1.64	0.62
1:AA:1026:GLN:HA	1:AA:1611:MET:HE3	1.81	0.62
1:AA:1235:THR:O	1:AA:1544:ASN:ND2	2.33	0.62
2:AB:903:ILE:HD13	2:AB:905:TYR:CE1	2.35	0.62
1:BA:450:LYS:NZ	1:BA:450:LYS:HB3	2.13	0.62
1:BA:1200:MET:HE1	1:BA:1569:VAL:HG12	1.81	0.62
2:BB:586:VAL:HG22	2:BB:640:LEU:HD23	1.82	0.62
2:BB:1186:ASP:OD2	2:BB:1198:TYR:OH	2.15	0.62
3:BC:328:LEU:HB3	11:BK:121:LEU:HD11	1.82	0.62
5:BE:55:ARG:NH2	5:BE:113:GLN:OE1	2.33	0.62
8:BH:63:LEU:HB2	8:BH:88:SER:HB2	1.81	0.62
1:CA:113:VAL:HG22	1:CA:182:LYS:NZ	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:28:TYR:CE1	5:CE:78:LEU:HB3	2.35	0.62
6:CF:101:ILE:HG21	6:CF:120:ILE:HG21	1.81	0.62
14:CN:85:HIS:HB3	14:CN:87:TYR:CE1	2.35	0.62
1:DA:1647:ASN:HD22	1:DA:1648:ASN:H	1.48	0.62
10:DJ:7:CYS:SG	10:DJ:8:PHE:N	2.73	0.62
2:EB:832:TRP:CZ3	2:EB:834:LYS:HA	2.35	0.62
2:EB:1046:VAL:HG22	2:EB:1047:ARG:H	1.64	0.62
7:EG:229:LEU:HD12	7:EG:230:ARG:H	1.64	0.62
11:EK:98:GLU:O	11:EK:100:LEU:N	2.33	0.62
1:FA:74:GLY:HA3	1:FA:364:PRO:HB3	1.81	0.62
1:FA:1294:MET:HG2	1:FA:1296:PHE:CE1	2.35	0.62
2:FB:338:PHE:CZ	2:FB:353:VAL:HG13	2.35	0.62
10:FJ:43:ARG:O	10:FJ:47:ARG:HG3	2.00	0.62
1:AA:719:ILE:HG12	8:AH:97:MET:HG2	1.81	0.61
1:AA:875:LEU:O	1:AA:879:LEU:HG	2.00	0.61
2:AB:834:LYS:O	2:AB:836:TRP:N	2.32	0.61
8:AH:63:LEU:HB2	8:AH:88:SER:HB2	1.81	0.61
1:BA:892:LEU:O	1:BA:896:THR:OG1	2.18	0.61
2:CB:213:HIS:HB2	2:CB:643:PHE:HZ	1.64	0.61
5:CE:137:GLU:O	5:CE:139:ALA:N	2.33	0.61
1:DA:1003:ARG:NH2	2:DB:520:LEU:HD22	2.14	0.61
1:DA:1272:VAL:O	1:DA:1273:THR:OG1	2.18	0.61
1:DA:1288:ARG:HB2	1:DA:1478:ALA:HA	1.82	0.61
2:DB:1047:ARG:NH2	2:DB:1051:PRO:O	2.33	0.61
9:DI:94:MET:HG2	9:DI:114:CYS:HA	1.82	0.61
10:DJ:45:CYS:O	10:DJ:48:ARG:HB3	2.00	0.61
1:EA:74:GLY:HA3	1:EA:364:PRO:HB3	1.81	0.61
2:EB:35:PHE:HB3	2:EB:38:LEU:HD23	1.81	0.61
7:EO:283:GLU:O	7:EO:286:ILE:HB	2.00	0.61
1:FA:1003:ARG:NH2	2:FB:520:LEU:HD22	2.15	0.61
1:FA:1216:THR:OG1	1:FA:1234:LYS:HB2	2.00	0.61
1:FA:1217:LEU:HD11	1:FA:1572:ARG:HD2	1.82	0.61
5:FE:19:VAL:O	5:FE:23:VAL:HG23	2.00	0.61
9:FI:88:GLN:OE1	9:FI:119:TYR:HB2	1.99	0.61
13:FM:21:VAL:HB	14:FN:109:LEU:HD11	1.82	0.61
1:AA:596:HIS:H	1:AA:596:HIS:CD2	2.17	0.61
1:AA:693:GLN:OE1	11:AK:88:PHE:HA	2.00	0.61
1:BA:113:VAL:HG22	1:BA:182:LYS:NZ	2.15	0.61
2:BB:832:TRP:CZ3	2:BB:834:LYS:HA	2.35	0.61
2:BB:1002:LYS:HZ2	14:BN:166:LEU:HD13	1.65	0.61
1:CA:468:ARG:HD2	1:CA:1021:ARG:NH1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:939:SER:OG	2:CB:943:ILE:N	2.31	0.61
3:CC:329:LYS:HD2	11:CK:122:LYS:HE2	1.82	0.61
5:CE:137:GLU:C	5:CE:139:ALA:H	2.08	0.61
12:CL:45:ALA:O	12:CL:47:ARG:N	2.33	0.61
1:DA:1241:PRO:HG3	1:DA:1540:GLY:HA3	1.81	0.61
2:DB:549:CYS:H	2:DB:550:ARG:NH1	1.97	0.61
2:DB:754:ALA:O	2:DB:756:LEU:N	2.33	0.61
10:DJ:2:ILE:HG12	10:DJ:3:VAL:H	1.65	0.61
1:EA:945:CYS:HB3	1:EA:946:LEU:HD23	1.81	0.61
2:EB:714:ARG:HG3	2:EB:922:GLY:HA3	1.82	0.61
2:EB:849:GLY:H	2:EB:882:ILE:HB	1.64	0.61
2:FB:699:ILE:H	2:FB:699:ILE:HD13	1.63	0.61
3:FC:100:ARG:HH12	3:FC:193:LEU:C	2.07	0.61
5:FE:87:SER:HA	5:FE:115:ASN:HB3	1.82	0.61
9:FI:73:LYS:HA	9:FI:76:LEU:HD12	1.82	0.61
1:AA:1175:MET:O	1:AA:1178:LEU:HG	2.00	0.61
3:BC:225:ALA:HB1	3:BC:302:VAL:HG22	1.81	0.61
4:BD:19:PRO:HG3	7:BG:47:VAL:HG12	1.81	0.61
7:BG:149:ILE:HD11	7:BG:155:ALA:HB2	1.81	0.61
1:CA:865:ASP:OD2	1:CA:867:ASP:N	2.30	0.61
1:CA:1117:SER:O	1:CA:1117:SER:OG	2.16	0.61
8:CH:118:PHE:HB2	8:CH:121:LEU:HB2	1.82	0.61
9:CI:73:LYS:HA	9:CI:76:LEU:HD12	1.80	0.61
2:DB:675:ALA:O	2:DB:690:GLU:HG2	2.00	0.61
8:DH:38:LEU:HD12	8:DH:124:ARG:O	2.00	0.61
1:EA:125:LEU:HD11	1:EA:219:LEU:HD12	1.82	0.61
1:EA:1217:LEU:HD11	1:EA:1572:ARG:HD2	1.82	0.61
2:EB:752:VAL:HG21	2:EB:965:GLU:HG2	1.83	0.61
2:EB:967:LEU:HD12	2:EB:967:LEU:H	1.64	0.61
2:FB:547:HIS:HB2	2:FB:760:TYR:OH	2.00	0.61
3:FC:328:LEU:HB3	11:FK:121:LEU:HD11	1.81	0.61
7:FG:29:ASP:C	7:FG:31:LYS:H	2.07	0.61
7:FO:286:ILE:O	7:FO:289:LYS:N	2.31	0.61
1:AA:721:LYS:HG2	1:AA:722:PRO:HA	1.83	0.61
13:AM:12:ILE:CG2	14:AN:68:LYS:HA	2.31	0.61
1:BA:425:ASN:ND2	7:BO:274:SER:HB2	2.12	0.61
4:BD:89:LEU:HA	4:BD:92:ILE:HD12	1.81	0.61
13:BM:81:PHE:HD1	13:BM:88:ILE:HB	1.64	0.61
1:DA:1263:LEU:HB2	1:DA:1496:SER:HB2	1.81	0.61
1:DA:1647:ASN:HB3	1:DA:1649:VAL:HG23	1.81	0.61
2:DB:170:CYS:SG	2:DB:171:HIS:N	2.74	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:1002:LYS:HZ3	14:DN:166:LEU:HD13	1.64	0.61
14:DN:55:LEU:O	14:DN:136:VAL:HG13	2.00	0.61
1:EA:1326:GLU:OE1	1:EA:1454:HIS:HB3	2.00	0.61
5:EE:137:GLU:C	5:EE:139:ALA:H	2.08	0.61
1:FA:1456:PHE:CB	1:FA:1474:LEU:HD11	2.30	0.61
10:FJ:45:CYS:O	10:FJ:48:ARG:HB3	2.00	0.61
1:AA:918:LYS:O	1:AA:923:ASN:ND2	2.32	0.61
2:AB:300:SER:HB3	9:AI:49:THR:HG23	1.82	0.61
7:AG:139:ILE:HD12	7:AG:140:GLN:H	1.65	0.61
14:AN:179:ASP:HB2	14:AN:180:PHE:CD1	2.36	0.61
1:BA:385:LEU:HD13	1:BA:437:PHE:HA	1.80	0.61
1:BA:865:ASP:OD2	1:BA:867:ASP:N	2.31	0.61
5:BE:40:GLU:HA	5:BE:43:LYS:HE3	1.81	0.61
1:CA:804:GLU:OE1	1:CA:804:GLU:N	2.32	0.61
1:CA:1502:PRO:O	1:CA:1503:HIS:HB2	1.99	0.61
1:CA:1585:ILE:O	1:CA:1589:MET:HG3	2.01	0.61
2:CB:104:ILE:HB	2:CB:169:ARG:HG3	1.82	0.61
14:CN:93:THR:C	14:CN:99:LEU:HG	2.26	0.61
1:DA:985:ARG:HG2	1:DA:988:SER:H	1.65	0.61
2:DB:152:LEU:HD13	2:DB:443:LYS:HG3	1.82	0.61
5:DE:152:LYS:HE3	5:DE:154:ILE:HD11	1.83	0.61
1:EA:76:GLN:HE22	2:EB:1111:LEU:HD12	1.65	0.61
1:EA:482:SER:HB2	2:EB:1044:PHE:HB3	1.80	0.61
1:EA:1003:ARG:NH2	2:EB:520:LEU:HD22	2.14	0.61
2:EB:428:VAL:O	2:EB:432:ILE:HD12	2.01	0.61
7:EG:29:ASP:C	7:EG:31:LYS:H	2.08	0.61
1:FA:1637:PRO:HG3	1:FA:1647:ASN:HD21	1.64	0.61
2:FB:380:LYS:HG3	2:FB:637:TYR:CD2	2.35	0.61
2:FB:863:ASP:HB3	2:FB:866:LEU:HB2	1.81	0.61
3:FC:45:SER:OG	3:FC:271:ARG:NH2	2.26	0.61
1:AA:1647:ASN:HB3	1:AA:1649:VAL:HG23	1.81	0.61
2:AB:295:ASN:HB3	14:AN:104:LEU:HD13	1.81	0.61
1:CA:611:GLU:CD	1:CA:615:ARG:HD2	2.25	0.61
1:CA:1027:LEU:HD21	1:CA:1588:MET:HG2	1.83	0.61
2:CB:714:ARG:HG3	2:CB:922:GLY:HA3	1.82	0.61
2:CB:1037:ARG:O	2:CB:1039:MET:N	2.32	0.61
10:CJ:2:ILE:HG12	10:CJ:3:VAL:H	1.66	0.61
1:DA:804:GLU:N	1:DA:804:GLU:OE1	2.34	0.61
2:DB:170:CYS:SG	2:DB:172:LEU:N	2.73	0.61
2:DB:811:LEU:HD13	2:DB:823:GLN:NE2	2.13	0.61
1:EA:956:ARG:HG2	1:EA:979:GLY:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EH:35:GLN:O	8:EH:127:GLY:HA2	2.00	0.61
1:FA:669:LEU:HD12	1:FA:786:TYR:CD1	2.35	0.61
1:FA:782:ASP:OD1	1:FA:783:LYS:N	2.32	0.61
1:AA:752:LYS:HG3	1:AA:768:GLU:HA	1.83	0.61
4:AD:82:LEU:HD22	7:AG:67:ASN:HD22	1.65	0.61
5:AE:147:HIS:HB3	5:AE:150:VAL:HG23	1.81	0.61
2:BB:683:ASN:HA	14:BN:150:TYR:CE1	2.35	0.61
1:CA:854:GLY:O	1:CA:974:THR:HB	2.01	0.61
1:DA:596:HIS:H	1:DA:596:HIS:CD2	2.18	0.61
2:DB:97:VAL:HG13	2:DB:141:LEU:HD11	1.83	0.61
9:DI:109:THR:OG1	9:DI:124:ASN:ND2	2.34	0.61
13:DM:81:PHE:HD1	13:DM:88:ILE:HB	1.64	0.61
14:DN:55:LEU:HB3	14:DN:136:VAL:HG22	1.82	0.61
1:EA:211:THR:O	1:EA:214:ASP:N	2.34	0.61
2:EB:127:ARG:NH1	2:EB:185:GLU:OE2	2.28	0.61
2:EB:301:PHE:HD1	2:EB:302:LEU:HD23	1.64	0.61
8:EH:60:ALA:O	8:EH:140:ALA:HB1	2.00	0.61
1:FA:209:THR:HG21	5:FE:174:GLN:HG3	1.82	0.61
1:FA:510:PRO:O	1:FA:515:ASN:ND2	2.33	0.61
1:FA:1272:VAL:HG12	1:FA:1273:THR:H	1.65	0.61
2:FB:693:PRO:O	2:FB:696:ILE:HG13	1.99	0.61
2:FB:757:TYR:CZ	2:FB:762:MET:HB3	2.36	0.61
14:FN:58:PHE:HA	14:FN:139:VAL:HG23	1.82	0.61
2:AB:403:LEU:HD11	2:AB:408:LEU:HB2	1.82	0.61
2:AB:713:PRO:HA	2:AB:716:MET:HE2	1.82	0.61
8:AH:62:SER:OG	8:AH:63:LEU:N	2.32	0.61
9:AI:86:CYS:SG	9:AI:94:MET:HE3	2.41	0.61
2:BB:751:ILE:HG23	2:BB:752:VAL:HG22	1.83	0.61
1:CA:897:SER:HA	1:CA:900:VAL:HG22	1.82	0.61
1:CA:1264:SER:O	9:CI:56:PHE:HB3	2.00	0.61
1:DA:843:ARG:NH1	2:DB:988:GLU:OE2	2.27	0.61
1:DA:1344:ILE:HD13	2:DB:329:TYR:HE2	1.65	0.61
2:DB:782:ASP:HB3	2:DB:788:ILE:HG12	1.82	0.61
2:DB:1138:ALA:O	2:DB:1141:LEU:HG	2.01	0.61
2:DB:1186:ASP:O	2:DB:1190:SER:OG	2.17	0.61
13:DM:56:GLU:HB2	13:DM:61:GLU:HA	1.82	0.61
1:EA:19:LEU:HB3	1:EA:24:ILE:HD11	1.80	0.61
2:EB:213:HIS:HB2	2:EB:643:PHE:CZ	2.36	0.61
7:EG:149:ILE:HD11	7:EG:155:ALA:HB2	1.83	0.61
8:EH:106:GLU:HG2	8:EH:112:ILE:HD11	1.83	0.61
13:FM:15:VAL:HA	13:FM:90:LEU:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1658:ALA:HB2	7:AG:107:ILE:HD11	1.81	0.61
2:AB:586:VAL:HG22	2:AB:640:LEU:HD23	1.83	0.61
2:AB:783:MET:O	2:AB:785:ASP:N	2.34	0.61
2:AB:946:ASP:OD2	10:AJ:48:ARG:NH2	2.34	0.61
1:BA:211:THR:O	1:BA:214:ASP:N	2.32	0.61
1:BA:1326:GLU:OE1	1:BA:1454:HIS:HB3	2.01	0.61
1:BA:1585:ILE:O	1:BA:1589:MET:HG3	2.01	0.61
3:BC:314:PHE:O	3:BC:317:SER:OG	2.17	0.61
2:CB:547:HIS:HB2	2:CB:760:TYR:OH	2.01	0.61
2:CB:549:CYS:H	2:CB:550:ARG:NH1	1.98	0.61
2:CB:986:PHE:CD2	2:CB:992:PRO:HG3	2.35	0.61
4:CD:32:SER:N	4:CD:35:GLU:OE2	2.33	0.61
3:DC:128:ASP:OD1	3:DC:174:ARG:NH1	2.32	0.61
3:DC:225:ALA:HB1	3:DC:302:VAL:HG22	1.83	0.61
1:EA:669:LEU:HD13	1:EA:673:HIS:HB3	1.82	0.61
1:EA:1487:ASN:O	1:EA:1490:GLU:N	2.34	0.61
2:EB:72:VAL:HG22	2:EB:96:SER:HA	1.80	0.61
2:EB:380:LYS:HE3	2:EB:637:TYR:HB3	1.83	0.61
1:FA:897:SER:HA	1:FA:900:VAL:HG22	1.83	0.61
1:FA:1031:HIS:HB2	1:FA:1182:GLY:O	2.01	0.61
3:FC:277:ARG:HG3	3:FC:291:LEU:HD13	1.83	0.61
8:FH:95:TYR:HD2	8:FH:144:ILE:HD13	1.66	0.61
1:AA:1484:LEU:CG	2:AB:308:LEU:HD11	2.31	0.61
7:AO:284:VAL:HG12	7:AO:288:ASN:HD21	1.65	0.61
5:BE:5:ASN:ND2	5:BE:52:ARG:HH21	1.98	0.61
1:CA:141:LEU:HG	1:CA:142:GLY:H	1.65	0.61
2:CB:428:VAL:O	2:CB:432:ILE:HD12	2.01	0.61
1:DA:1502:PRO:O	1:DA:1503:HIS:HB2	1.99	0.61
1:EA:993:GLN:CD	2:EB:676:VAL:HG21	2.26	0.61
2:EB:887:LEU:O	2:EB:888:ILE:HD12	2.00	0.61
2:EB:1195:ARG:HH21	2:EB:1197:ARG:HD2	1.65	0.61
9:EI:6:SER:H	9:EI:45:LEU:HD22	1.64	0.61
11:EK:49:LEU:HD11	11:EK:54:THR:HG21	1.83	0.61
2:FB:833:PRO:HG2	2:FB:836:TRP:CZ2	2.36	0.61
2:FB:852:VAL:HG13	2:FB:856:ASP:HB2	1.82	0.61
3:FC:316:LYS:O	3:FC:320:ILE:N	2.33	0.61
1:AA:395:LEU:HD12	7:AO:273:VAL:HG13	1.83	0.60
2:AB:714:ARG:HG3	2:AB:922:GLY:HA3	1.83	0.60
2:AB:986:PHE:CD1	14:AN:160:VAL:HG21	2.36	0.60
3:AC:253:PRO:HG2	14:AN:180:PHE:CD1	2.36	0.60
14:AN:105:SER:OG	14:AN:132:GLN:NE2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:82:LEU:HG	7:BG:124:VAL:HA	1.83	0.60
14:BN:122:ALA:O	14:BN:130:PRO:HA	2.02	0.60
1:CA:674:ILE:O	1:CA:678:VAL:HG23	2.01	0.60
1:CA:693:GLN:OE1	11:CK:88:PHE:HA	2.01	0.60
1:CA:843:ARG:NH1	2:CB:988:GLU:OE2	2.23	0.60
2:CB:863:ASP:HB3	2:CB:866:LEU:HB2	1.83	0.60
1:DA:1:MET:HE2	7:DG:110:ASP:HB3	1.83	0.60
1:DA:1216:THR:HG23	1:DA:1234:LYS:HD2	1.83	0.60
1:DA:1292:ILE:O	1:DA:1292:ILE:HD12	2.01	0.60
7:DG:61:VAL:HG11	7:DG:87:LEU:HD21	1.83	0.60
1:EA:558:ALA:O	1:EA:561:LEU:HG	2.01	0.60
1:EA:818:THR:CG2	2:EB:780:GLY:HA3	2.30	0.60
8:EH:38:LEU:HD11	8:EH:123:MET:HG3	1.81	0.60
1:FA:596:HIS:H	1:FA:596:HIS:HD2	1.49	0.60
1:FA:1474:LEU:HD13	1:FA:1475:GLU:N	2.14	0.60
1:FA:1508:VAL:O	1:FA:1510:PRO:HD3	2.01	0.60
1:AA:123:ARG:HD3	1:AA:337:TYR:CE1	2.36	0.60
1:AA:1579:PHE:HA	1:AA:1582:LEU:HG	1.83	0.60
2:AB:772:VAL:HG12	2:AB:946:ASP:H	1.65	0.60
2:AB:843:ASP:OD1	2:AB:845:LEU:HG	2.00	0.60
2:AB:1186:ASP:O	2:AB:1190:SER:OG	2.19	0.60
3:AC:90:SER:OG	3:AC:91:VAL:N	2.33	0.60
6:AF:99:LEU:HB3	7:AG:112:PRO:HD3	1.82	0.60
1:BA:123:ARG:HD3	1:BA:337:TYR:CE1	2.35	0.60
1:BA:545:SER:O	1:BA:545:SER:OG	2.19	0.60
1:BA:603:HIS:NE2	1:BA:624:TYR:OH	2.34	0.60
2:BB:75:ASP:OD1	2:BB:76:GLY:N	2.33	0.60
2:BB:533:THR:OG1	2:BB:542:LEU:O	2.18	0.60
2:BB:572:PRO:O	2:BB:576:THR:OG1	2.17	0.60
8:BH:30:SER:HB3	8:BH:36:CYS:HB3	1.81	0.60
13:CM:15:VAL:HA	13:CM:90:LEU:HB2	1.81	0.60
1:DA:461:GLU:HA	1:DA:465:GLY:HA2	1.83	0.60
8:DH:106:GLU:HA	8:DH:112:ILE:HG12	1.84	0.60
1:EA:113:VAL:HG22	1:EA:182:LYS:NZ	2.16	0.60
1:EA:1545:ASP:CG	1:EA:1546:VAL:N	2.59	0.60
1:EA:1661:PRO:HA	7:EG:102:GLU:HA	1.83	0.60
2:EB:474:SER:O	2:EB:476:LEU:N	2.34	0.60
8:EH:95:TYR:HD2	8:EH:144:ILE:HD13	1.66	0.60
1:FA:1590:THR:OG1	5:FE:212:ARG:NH2	2.34	0.60
1:FA:1620:GLN:O	1:FA:1623:THR:N	2.34	0.60
3:FC:255:VAL:HG12	3:FC:256:ILE:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1220:PRO:O	1:AA:1223:ARG:N	2.34	0.60
2:AB:675:ALA:O	2:AB:690:GLU:HG2	2.00	0.60
3:AC:84:TYR:HB3	12:AL:64:LEU:HD11	1.82	0.60
12:AL:32:ALA:HB2	12:AL:57:LEU:HG	1.83	0.60
1:BA:1656:VAL:HG23	7:BG:107:ILE:HB	1.83	0.60
2:BB:1049:THR:HG21	7:BO:304:ASN:HB3	1.83	0.60
8:BH:57:VAL:HG13	8:BH:144:ILE:HG13	1.84	0.60
1:CA:1344:ILE:HG22	2:CB:334:PHE:HE2	1.65	0.60
1:CA:1661:PRO:HA	7:CG:102:GLU:HA	1.82	0.60
2:CB:841:ASP:HB3	2:CB:843:ASP:OD1	2.02	0.60
8:CH:106:GLU:HG2	8:CH:112:ILE:HD11	1.83	0.60
10:CJ:36:LEU:HD11	10:CJ:51:LEU:HB2	1.83	0.60
13:CM:12:ILE:CG2	14:CN:68:LYS:HA	2.30	0.60
1:DA:211:THR:HB	5:DE:173:SER:HB2	1.83	0.60
1:DA:1263:LEU:HG	1:DA:1267:ILE:HD11	1.83	0.60
8:DH:107:VAL:HG23	8:DH:112:ILE:HA	1.83	0.60
1:EA:549:MET:SD	1:EA:553:GLN:NE2	2.74	0.60
1:EA:1502:PRO:O	1:EA:1503:HIS:HB2	2.01	0.60
3:EC:88:ASN:OD1	3:EC:202:ILE:HD11	2.01	0.60
1:FA:1019:LEU:HD23	1:FA:1020:GLN:N	2.16	0.60
1:FA:1235:THR:O	1:FA:1544:ASN:ND2	2.35	0.60
1:FA:1546:VAL:O	1:FA:1549:VAL:N	2.34	0.60
2:FB:242:ASP:OD2	2:FB:414:LYS:NZ	2.28	0.60
2:FB:713:PRO:HA	2:FB:716:MET:HE2	1.83	0.60
11:FK:60:SER:OG	11:FK:104:ARG:NH2	2.33	0.60
2:AB:572:PRO:O	2:AB:576:THR:OG1	2.16	0.60
3:AC:228:ARG:NH1	14:AN:173:THR:H	1.99	0.60
7:AG:37:CYS:HB3	7:AG:125:TRP:CD1	2.36	0.60
1:BA:1060:GLU:O	1:BA:1063:MET:N	2.34	0.60
1:BA:1474:LEU:HD13	1:BA:1475:GLU:N	2.16	0.60
2:BB:852:VAL:HG13	2:BB:856:ASP:HB2	1.84	0.60
5:BE:192:ARG:NH2	5:BE:215:MET:O	2.34	0.60
7:BO:276:LYS:C	7:BO:278:ILE:H	2.09	0.60
1:CA:363:PRO:HB3	2:CB:1187:SER:OG	2.01	0.60
1:CA:1019:LEU:HD23	1:CA:1020:GLN:N	2.17	0.60
2:CB:623:ASP:HA	2:CB:663:ILE:HG21	1.82	0.60
2:CB:738:ASP:OD1	2:CB:738:ASP:N	2.33	0.60
1:DA:1474:LEU:HD13	1:DA:1475:GLU:N	2.15	0.60
2:DB:327:LEU:HD13	2:DB:351:GLN:HG2	1.82	0.60
2:EB:52:LEU:HD22	2:EB:61:LEU:HD21	1.82	0.60
2:EB:383:SER:OG	2:EB:384:LEU:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:655:TYR:HA	2:EB:688:HIS:CD2	2.34	0.60
13:EM:58:GLU:HG2	13:EM:59:ARG:N	2.14	0.60
1:FA:1202:LEU:HD11	9:FI:101:LEU:HD21	1.84	0.60
2:FB:886:ASN:N	2:FB:902:SER:O	2.28	0.60
1:AA:456:VAL:HG11	2:AB:1192:MET:SD	2.42	0.60
1:AA:473:GLY:HA2	2:AB:1071:VAL:O	2.01	0.60
1:AA:1216:THR:OG1	1:AA:1234:LYS:HB2	2.01	0.60
2:AB:401:GLU:HA	2:AB:649:MET:HE2	1.84	0.60
2:AB:501:ARG:HG3	2:AB:699:ILE:HD12	1.84	0.60
13:AM:56:GLU:HB2	13:AM:61:GLU:HA	1.83	0.60
1:BA:615:ARG:NH2	2:BB:928:SER:OG	2.34	0.60
1:BA:1220:PRO:O	1:BA:1223:ARG:N	2.34	0.60
1:CA:1202:LEU:HD22	9:CI:99:LEU:HD22	1.82	0.60
2:DB:18:THR:HA	2:DB:21:ARG:NH2	2.17	0.60
1:EA:456:VAL:HG11	2:EB:1192:MET:SD	2.41	0.60
2:EB:346:ASP:OD1	13:EM:113:ILE:HG23	2.01	0.60
2:EB:625:GLU:HB2	2:EB:643:PHE:O	2.01	0.60
3:EC:100:ARG:HH12	3:EC:193:LEU:C	2.09	0.60
7:EG:37:CYS:HB3	7:EG:125:TRP:CD1	2.36	0.60
10:EJ:2:ILE:HG12	10:EJ:3:VAL:H	1.67	0.60
1:FA:491:GLU:OE1	1:FA:815:ARG:NH2	2.19	0.60
1:FA:537:GLN:HE21	1:FA:541:GLY:HA2	1.66	0.60
1:FA:1288:ARG:HB2	1:FA:1478:ALA:HA	1.83	0.60
1:FA:1344:ILE:HD13	2:FB:329:TYR:CE2	2.37	0.60
4:FD:22:ILE:CD1	7:FG:45:LEU:HA	2.31	0.60
7:FG:45:LEU:CD1	7:FG:118:CYS:HB2	2.32	0.60
1:AA:1487:ASN:O	1:AA:1490:GLU:N	2.35	0.60
1:AA:1545:ASP:OD1	1:AA:1546:VAL:N	2.31	0.60
1:BA:1272:VAL:HG12	1:BA:1273:THR:H	1.66	0.60
8:BH:106:GLU:HA	8:BH:112:ILE:HG12	1.82	0.60
2:CB:75:ASP:OD1	2:CB:77:LYS:NZ	2.35	0.60
2:CB:262:PHE:CE2	2:CB:269:TYR:HB2	2.36	0.60
2:CB:392:ASP:HB3	2:CB:399:HIS:CE1	2.37	0.60
5:CE:192:ARG:NH2	5:CE:215:MET:O	2.34	0.60
14:CN:58:PHE:HA	14:CN:139:VAL:HG23	1.84	0.60
1:DA:945:CYS:HB3	1:DA:946:LEU:HD23	1.84	0.60
2:DB:66:LYS:C	2:DB:68:ILE:H	2.09	0.60
14:DN:122:ALA:O	14:DN:130:PRO:HA	2.01	0.60
1:EA:1245:ASP:OD2	1:EA:1245:ASP:N	2.31	0.60
1:EA:1658:ALA:HB2	7:EG:107:ILE:HD11	1.83	0.60
2:EB:504:HIS:HB3	2:EB:542:LEU:HD23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EO:285:SER:O	7:EO:289:LYS:HB2	2.02	0.60
1:BA:1563:VAL:HA	1:BA:1566:ILE:HD11	1.82	0.60
4:BD:19:PRO:HG3	7:BG:47:VAL:CG1	2.32	0.60
12:BL:33:GLU:HG2	12:BL:55:ILE:HG12	1.84	0.60
2:CB:1073:GLU:H	2:CB:1073:GLU:CD	2.08	0.60
1:DA:1200:MET:HE1	1:DA:1569:VAL:HG12	1.82	0.60
2:DB:41:ALA:HB1	2:DB:501:ARG:HH11	1.67	0.60
8:DH:63:LEU:HB2	8:DH:88:SER:HB2	1.83	0.60
1:EA:748:ASN:ND2	1:EA:1072:ASN:OD1	2.35	0.60
2:EB:783:MET:O	2:EB:785:ASP:N	2.35	0.60
5:EE:133:GLU:HB3	5:EE:135:PHE:HE1	1.67	0.60
8:FH:60:ALA:O	8:FH:140:ALA:HB1	2.02	0.60
9:FI:41:GLN:HB3	9:FI:42:PHE:CE2	2.37	0.60
1:AA:1248:ASP:O	1:AA:1251:ALA:HB3	2.02	0.60
1:AA:1502:PRO:O	1:AA:1503:HIS:HB2	2.01	0.60
5:AE:178:ILE:HG22	5:AE:212:ARG:HB3	1.84	0.60
1:BA:1016:SER:CB	1:BA:1019:LEU:HD22	2.32	0.60
2:BB:588:ILE:O	2:BB:591:LYS:HG2	2.02	0.60
8:BH:63:LEU:HB3	8:BH:89:LEU:HB3	1.82	0.60
12:BL:32:ALA:HB3	12:BL:55:ILE:HG13	1.84	0.60
1:CA:545:SER:O	1:CA:545:SER:OG	2.20	0.60
1:CA:1226:VAL:HG12	1:CA:1227:MET:HG2	1.84	0.60
2:CB:1046:VAL:HG22	2:CB:1047:ARG:H	1.67	0.60
3:CC:223:SER:HB2	3:CC:303:GLU:HB3	1.83	0.60
14:CN:70:LEU:HG	14:CN:70:LEU:O	2.01	0.60
2:DB:18:THR:HA	2:DB:21:ARG:HH21	1.65	0.60
4:DD:32:SER:N	4:DD:35:GLU:OE2	2.35	0.60
5:DE:28:TYR:CE1	5:DE:78:LEU:HB3	2.37	0.60
7:DG:29:ASP:C	7:DG:31:LYS:H	2.10	0.60
1:FA:1108:HIS:CG	1:FA:1117:SER:HB3	2.35	0.60
1:FA:1236:PRO:HB2	1:FA:1524:VAL:HG23	1.83	0.60
5:FE:47:CYS:SG	5:FE:53:PRO:HA	2.42	0.60
8:FH:38:LEU:HD12	8:FH:124:ARG:O	2.01	0.60
13:FM:56:GLU:HB2	13:FM:61:GLU:HA	1.83	0.60
1:AA:785:GLN:O	1:AA:794:VAL:HG22	2.02	0.60
1:AA:975:ASP:OD1	1:AA:976:ALA:N	2.34	0.60
7:AO:284:VAL:O	7:AO:288:ASN:ND2	2.35	0.60
1:BA:399:LEU:HD13	7:BO:271:PRO:HG2	1.83	0.60
1:BA:1108:HIS:CG	1:BA:1117:SER:HB3	2.36	0.60
2:BB:971:ALA:O	2:BB:974:LEU:N	2.35	0.60
2:BB:1047:ARG:NH2	2:BB:1051:PRO:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:99:ARG:O	1:CA:109:ARG:NH2	2.35	0.60
1:CA:1216:THR:OG1	1:CA:1234:LYS:HB2	2.01	0.60
6:CF:70:LYS:HG3	7:CG:94:PRO:O	2.01	0.60
7:CG:37:CYS:HB3	7:CG:125:TRP:CD1	2.37	0.60
1:DA:680:LEU:HD21	1:DA:731:ILE:HD12	1.82	0.60
11:DK:112:THR:N	11:DK:115:ASP:OD2	2.30	0.60
1:EA:1237:GLN:H	1:EA:1544:ASN:HB3	1.66	0.60
1:FA:586:VAL:HG13	1:FA:638:PRO:HG2	1.83	0.60
1:FA:927:ALA:O	1:FA:931:SER:OG	2.10	0.60
1:FA:1136:VAL:HG22	1:FA:1174:TYR:CD1	2.37	0.60
2:FB:562:PRO:HG3	2:FB:588:ILE:HD13	1.84	0.60
5:FE:133:GLU:HB3	5:FE:135:PHE:HE1	1.67	0.60
2:AB:104:ILE:HA	2:AB:137:LEU:HD22	1.83	0.60
13:AM:15:VAL:HA	13:AM:90:LEU:HB2	1.83	0.60
2:BB:134:ARG:HA	2:BB:163:VAL:HG23	1.82	0.60
2:BB:807:GLU:O	2:BB:902:SER:OG	2.10	0.60
5:BE:48:ASP:O	5:BE:50:MET:N	2.34	0.60
5:BE:133:GLU:HB3	5:BE:135:PHE:HE1	1.66	0.60
1:CA:203:THR:OG1	1:CA:204:GLU:N	2.32	0.60
2:CB:852:VAL:HG13	2:CB:856:ASP:HB2	1.84	0.60
11:CK:49:LEU:HD11	11:CK:54:THR:HG21	1.83	0.60
1:DA:510:PRO:O	1:DA:515:ASN:ND2	2.33	0.60
1:DA:1019:LEU:HD23	1:DA:1020:GLN:N	2.16	0.60
1:EA:699:CYS:O	1:EA:815:ARG:NH1	2.35	0.60
1:EA:974:THR:O	1:EA:974:THR:OG1	2.14	0.60
1:EA:1009:THR:HG21	9:EI:101:LEU:HD23	1.84	0.60
1:EA:1019:LEU:HD23	1:EA:1020:GLN:N	2.15	0.60
1:EA:1217:LEU:HD13	1:EA:1573:TYR:HE1	1.67	0.60
1:EA:1447:GLN:HG3	1:EA:1460:TYR:HB3	1.82	0.60
1:FA:697:TYR:HE1	1:FA:702:PRO:CD	2.14	0.60
1:FA:850:SER:O	1:FA:853:THR:N	2.34	0.60
2:FB:549:CYS:H	2:FB:550:ARG:NH1	2.00	0.60
9:FI:10:CYS:HB3	9:FI:13:CYS:SG	2.41	0.60
2:AB:547:HIS:HB2	2:AB:760:TYR:OH	2.02	0.59
2:AB:1138:ALA:O	2:AB:1141:LEU:HG	2.02	0.59
3:AC:277:ARG:HG3	3:AC:291:LEU:HD13	1.82	0.59
11:AK:49:LEU:HD11	11:AK:54:THR:HG21	1.84	0.59
1:BA:574:ASN:OD1	1:BA:574:ASN:N	2.35	0.59
2:BB:649:MET:HE3	2:BB:666:PRO:HG2	1.84	0.59
5:BE:147:HIS:HB3	5:BE:150:VAL:HG23	1.84	0.59
1:CA:52:LEU:C	1:CA:54:LEU:H	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1272:VAL:O	1:CA:1273:THR:OG1	2.17	0.59
3:CC:230:LEU:HD12	3:CC:231:PRO:HD2	1.83	0.59
13:CM:81:PHE:HD1	13:CM:88:ILE:HB	1.67	0.59
1:DA:1094:ALA:HB2	1:DA:1132:TYR:HB3	1.84	0.59
2:DB:474:SER:C	2:DB:476:LEU:H	2.09	0.59
1:EA:753:ASN:ND2	1:EA:767:ASN:O	2.35	0.59
1:EA:1236:PRO:HB2	1:EA:1524:VAL:HG23	1.83	0.59
1:EA:1263:LEU:C	1:EA:1265:GLU:H	2.10	0.59
1:EA:1658:ALA:O	7:EG:104:LEU:HA	2.02	0.59
2:EB:940:GLU:HB2	2:EB:1012:PRO:HB2	1.83	0.59
13:EM:113:ILE:HG22	13:EM:113:ILE:O	2.01	0.59
1:FA:11:ILE:CG2	2:FB:1198:TYR:HB2	2.32	0.59
1:FA:97:TYR:O	1:FA:101:SER:OG	2.18	0.59
1:FA:703:GLU:H	1:FA:703:GLU:CD	2.09	0.59
1:FA:1136:VAL:HG22	1:FA:1174:TYR:CE1	2.36	0.59
2:FB:1195:ARG:HH21	2:FB:1197:ARG:HD2	1.66	0.59
3:FC:42:VAL:HG22	3:FC:56:LEU:HD22	1.84	0.59
1:AA:499:PRO:HG3	1:AA:609:PRO:HA	1.84	0.59
2:AB:470:LEU:HD22	2:AB:484:TYR:HE1	1.67	0.59
2:AB:1002:LYS:NZ	14:AN:166:LEU:HD13	2.17	0.59
2:AB:1037:ARG:O	2:AB:1039:MET:N	2.35	0.59
10:AJ:31:ASP:OD1	10:AJ:34:THR:HB	2.01	0.59
11:BK:49:LEU:HD12	11:BK:62:SER:O	2.01	0.59
14:BN:55:LEU:HD12	14:BN:56:ILE:H	1.67	0.59
1:CA:1094:ALA:HB2	1:CA:1132:TYR:HB3	1.84	0.59
2:CB:210:ARG:NH2	2:CB:625:GLU:OE2	2.35	0.59
13:CM:40:LEU:HD12	13:CM:41:TYR:H	1.66	0.59
14:CN:55:LEU:O	14:CN:136:VAL:HG13	2.02	0.59
2:EB:841:ASP:HB3	2:EB:843:ASP:OD1	2.03	0.59
2:EB:1150:LYS:N	2:EB:1150:LYS:HZ2	1.99	0.59
1:FA:558:ALA:O	1:FA:561:LEU:HG	2.02	0.59
1:FA:804:GLU:H	1:FA:804:GLU:CD	2.09	0.59
1:FA:896:THR:O	1:FA:900:VAL:HG13	2.02	0.59
12:FL:40:LEU:HD22	12:FL:44:ASP:HB3	1.84	0.59
14:AN:58:PHE:HA	14:AN:139:VAL:HG23	1.83	0.59
7:AO:272:ILE:HG22	7:AO:275:ASN:ND2	2.17	0.59
1:BA:510:PRO:O	1:BA:515:ASN:ND2	2.35	0.59
7:BG:89:ILE:HA	7:BG:118:CYS:SG	2.43	0.59
10:BJ:41:LEU:HD22	10:BJ:46:CYS:HB3	1.83	0.59
1:CA:1019:LEU:HD21	1:CA:1194:GLY:HA2	1.84	0.59
2:CB:532:HIS:CD2	2:CB:700:LEU:HD22	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:934:ILE:HG21	3:CC:73:SER:HB3	1.83	0.59
2:CB:1026:ILE:HD11	2:CB:1028:VAL:HG13	1.84	0.59
14:CN:122:ALA:O	14:CN:130:PRO:HA	2.01	0.59
1:DA:7:VAL:HG12	1:DA:9:SER:H	1.66	0.59
1:DA:574:ASN:OD1	1:DA:574:ASN:N	2.32	0.59
1:DA:669:LEU:HD13	1:DA:673:HIS:HB3	1.84	0.59
2:DB:714:ARG:HG3	2:DB:922:GLY:HA3	1.83	0.59
5:DE:19:VAL:O	5:DE:23:VAL:HG23	2.02	0.59
11:DK:51:THR:O	11:DK:54:THR:OG1	2.19	0.59
1:EA:892:LEU:O	1:EA:896:THR:OG1	2.19	0.59
1:EA:1033:SER:HB3	6:EF:139:PRO:CG	2.30	0.59
1:EA:1146:SER:OG	1:EA:1147:PHE:N	2.31	0.59
1:EA:1272:VAL:HG12	1:EA:1273:THR:H	1.67	0.59
2:EB:18:THR:HA	2:EB:21:ARG:NH2	2.16	0.59
4:ED:89:LEU:HA	4:ED:92:ILE:HD12	1.84	0.59
1:FA:1487:ASN:O	1:FA:1490:GLU:N	2.36	0.59
1:FA:1555:VAL:N	5:FE:182:ASP:OD1	2.31	0.59
2:FB:52:LEU:HD22	2:FB:61:LEU:HD21	1.85	0.59
3:FC:77:SER:O	3:FC:210:LEU:HA	2.02	0.59
7:FG:37:CYS:HB3	7:FG:125:TRP:CD1	2.37	0.59
1:AA:987:TYR:C	1:AA:987:TYR:CD2	2.81	0.59
14:AN:55:LEU:O	14:AN:136:VAL:HG13	2.01	0.59
1:BA:530:TRP:HZ2	1:BA:582:LYS:HA	1.67	0.59
2:BB:250:LEU:HD11	2:BB:378:ILE:HD13	1.84	0.59
2:BB:713:PRO:HA	2:BB:716:MET:HE2	1.84	0.59
2:BB:904:LYS:C	2:BB:905:TYR:HD1	2.10	0.59
2:BB:1037:ARG:O	2:BB:1039:MET:N	2.34	0.59
2:BB:1121:GLY:HA2	7:BG:241:ARG:NH2	2.16	0.59
1:CA:549:MET:SD	1:CA:553:GLN:HB2	2.42	0.59
2:CB:170:CYS:SG	2:CB:172:LEU:N	2.73	0.59
2:CB:383:SER:OG	2:CB:384:LEU:N	2.33	0.59
2:CB:526:GLY:HA2	2:CB:696:ILE:HG22	1.84	0.59
1:DA:1638:SER:HA	1:DA:1641:ILE:HD12	1.84	0.59
2:DB:274:VAL:HA	2:DB:277:LEU:HD12	1.84	0.59
1:EA:511:VAL:HG22	1:EA:519:LEU:HD12	1.84	0.59
1:EA:718:THR:O	8:EH:98:TYR:N	2.35	0.59
2:EB:795:GLU:OE2	3:EC:216:HIS:HA	2.02	0.59
13:EM:40:LEU:HD12	13:EM:41:TYR:H	1.68	0.59
1:FA:461:GLU:HA	1:FA:465:GLY:HA2	1.83	0.59
1:FA:831:ASP:OD1	1:FA:831:ASP:N	2.35	0.59
1:FA:843:ARG:NE	1:FA:945:CYS:O	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1263:LEU:O	1:FA:1265:GLU:N	2.36	0.59
2:FB:554:GLN:HA	2:FB:646:HIS:CD2	2.38	0.59
2:FB:751:ILE:HG23	2:FB:752:VAL:HG22	1.84	0.59
2:FB:774:ALA:HB3	2:FB:948:ILE:HA	1.83	0.59
2:FB:849:GLY:H	2:FB:882:ILE:HB	1.67	0.59
2:FB:1138:ALA:O	2:FB:1141:LEU:HG	2.01	0.59
1:AA:102:CYS:HB2	1:AA:109:ARG:HG2	1.84	0.59
1:AA:1273:THR:OG1	1:AA:1291:VAL:HB	2.03	0.59
2:AB:104:ILE:HB	2:AB:169:ARG:HG3	1.84	0.59
2:AB:228:SER:HB2	2:AB:253:LEU:HD13	1.85	0.59
2:AB:863:ASP:HB3	2:AB:866:LEU:HB2	1.83	0.59
3:AC:85:PHE:O	12:AL:64:LEU:HA	2.02	0.59
8:AH:118:PHE:HB2	8:AH:121:LEU:HB2	1.85	0.59
1:BA:102:CYS:HB2	1:BA:109:ARG:HG2	1.82	0.59
1:BA:669:LEU:HD12	1:BA:786:TYR:CD1	2.33	0.59
1:BA:1019:LEU:HD23	1:BA:1020:GLN:N	2.18	0.59
2:BB:857:PRO:HA	2:BB:871:ILE:HD11	1.85	0.59
11:BK:98:GLU:O	11:BK:100:LEU:N	2.35	0.59
14:BN:105:SER:OG	14:BN:132:GLN:NE2	2.35	0.59
1:CA:1151:ASN:HB3	1:CA:1154:LEU:HD12	1.85	0.59
1:CA:1623:THR:HA	1:CA:1626:VAL:HG22	1.85	0.59
2:CB:35:PHE:HB3	2:CB:38:LEU:HD23	1.83	0.59
6:CF:92:ARG:O	6:CF:96:THR:OG1	2.21	0.59
13:CM:113:ILE:O	13:CM:113:ILE:HG22	2.03	0.59
14:CN:75:GLU:H	14:CN:91:ASP:CG	2.10	0.59
1:DA:897:SER:HA	1:DA:900:VAL:HG22	1.84	0.59
1:DA:937:ASN:HB3	9:DI:82:ILE:HD11	1.84	0.59
1:DA:1236:PRO:HB2	1:DA:1524:VAL:HG23	1.84	0.59
2:DB:971:ALA:O	2:DB:974:LEU:N	2.36	0.59
3:DC:85:PHE:O	12:DL:64:LEU:HA	2.03	0.59
11:DK:60:SER:OG	11:DK:104:ARG:NH2	2.30	0.59
2:EB:1047:ARG:NH2	2:EB:1059:PRO:HB3	2.18	0.59
1:FA:987:TYR:C	1:FA:987:TYR:CD2	2.80	0.59
1:FA:1003:ARG:CZ	2:FB:520:LEU:HD22	2.32	0.59
1:FA:1662:ASN:HB3	7:FG:57:PRO:HD2	1.84	0.59
2:FB:98:SER:OG	2:FB:99:VAL:N	2.32	0.59
4:FD:32:SER:N	4:FD:35:GLU:OE2	2.35	0.59
5:FE:5:ASN:ND2	5:FE:52:ARG:HH21	1.98	0.59
7:FG:10:ASN:HB2	7:FG:14:ALA:HB3	1.84	0.59
8:FH:63:LEU:HB2	8:FH:88:SER:HB2	1.84	0.59
11:FK:80:ILE:HD13	11:FK:105:ILE:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FM:10:ILE:HB	14:FN:70:LEU:HD21	1.84	0.59
1:AA:943:ILE:HA	1:AA:986:PHE:HB2	1.85	0.59
2:AB:888:ILE:HG13	12:AL:55:ILE:HA	1.85	0.59
1:BA:74:GLY:HA3	1:BA:364:PRO:HB3	1.84	0.59
1:BA:509:GLU:OE1	1:BA:579:ARG:NH2	2.34	0.59
1:BA:1272:VAL:O	1:BA:1273:THR:OG1	2.19	0.59
1:BA:1617:THR:CB	1:BA:1620:GLN:HG2	2.33	0.59
3:BC:45:SER:OG	3:BC:271:ARG:NH2	2.24	0.59
2:CB:876:SER:C	2:CB:878:GLU:H	2.10	0.59
1:DA:835:LEU:HD22	1:DA:915:GLY:O	2.02	0.59
1:DA:1146:SER:OG	1:DA:1147:PHE:N	2.33	0.59
1:DA:1263:LEU:C	1:DA:1265:GLU:H	2.11	0.59
1:DA:1484:LEU:HD13	2:DB:305:ARG:CZ	2.32	0.59
1:DA:1545:ASP:OD1	1:DA:1546:VAL:N	2.29	0.59
2:DB:98:SER:HA	2:DB:421:LEU:HD21	1.84	0.59
2:DB:713:PRO:HA	2:DB:716:MET:HE2	1.84	0.59
2:DB:718:GLN:CD	2:DB:920:ARG:HA	2.28	0.59
2:DB:849:GLY:H	2:DB:882:ILE:HB	1.68	0.59
9:DI:86:CYS:SG	9:DI:94:MET:HE3	2.42	0.59
14:DN:75:GLU:H	14:DN:91:ASP:CB	2.16	0.59
1:EA:1508:VAL:O	1:EA:1510:PRO:HD3	2.01	0.59
1:EA:1545:ASP:CG	1:EA:1546:VAL:H	2.11	0.59
6:EF:97:ARG:HA	6:EF:100:GLN:HG3	1.85	0.59
1:FA:440:SER:N	1:FA:458:GLN:HE22	2.01	0.59
1:FA:865:ASP:OD2	1:FA:867:ASP:N	2.34	0.59
2:FB:392:ASP:HB3	2:FB:399:HIS:CE1	2.37	0.59
4:FD:22:ILE:HG23	7:FG:44:ALA:O	2.02	0.59
14:FN:55:LEU:O	14:FN:136:VAL:HG13	2.03	0.59
1:AA:615:ARG:NH2	2:AB:928:SER:OG	2.36	0.59
1:AA:1200:MET:HE1	1:AA:1569:VAL:HG12	1.84	0.59
2:AB:956:SER:O	9:AI:107:GLY:HA2	2.02	0.59
1:BA:782:ASP:OD1	1:BA:783:LYS:N	2.36	0.59
1:BA:1601:GLN:C	1:BA:1603:MET:H	2.10	0.59
2:BB:753:LYS:O	2:BB:981:SER:OG	2.18	0.59
3:BC:329:LYS:CD	11:BK:122:LYS:HE2	2.33	0.59
1:CA:469:LYS:HZ3	7:CO:314:THR:C	2.11	0.59
1:CA:1508:VAL:O	1:CA:1510:PRO:HD3	2.02	0.59
2:CB:104:ILE:HA	2:CB:137:LEU:HD22	1.85	0.59
2:CB:1150:LYS:N	2:CB:1150:LYS:HZ2	2.00	0.59
8:CH:15:VAL:HG22	8:CH:26:ILE:HG12	1.85	0.59
1:DA:323:ILE:O	1:DA:327:VAL:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1019:LEU:HD21	1:DA:1194:GLY:HA2	1.84	0.59
3:DC:128:ASP:C	3:DC:130:ASN:H	2.10	0.59
1:EA:478:TYR:O	2:EB:1091:ARG:NH2	2.36	0.59
2:EB:887:LEU:HB3	2:EB:901:VAL:HG13	1.84	0.59
5:EE:152:LYS:HE3	5:EE:154:ILE:HD11	1.84	0.59
11:EK:49:LEU:HD12	11:EK:62:SER:O	2.03	0.59
1:AA:812:VAL:HG12	1:AA:813:LEU:HD23	1.84	0.59
2:AB:832:TRP:CZ3	2:AB:834:LYS:HA	2.37	0.59
6:AF:101:ILE:HG21	6:AF:120:ILE:HG21	1.84	0.59
1:BA:855:ARG:O	1:BA:858:ALA:N	2.35	0.59
1:BA:1235:THR:O	1:BA:1544:ASN:ND2	2.36	0.59
1:BA:1623:THR:HA	1:BA:1626:VAL:HG22	1.85	0.59
2:BB:170:CYS:SG	2:BB:172:LEU:N	2.74	0.59
2:BB:773:VAL:HG21	2:BB:1031:VAL:HB	1.85	0.59
7:BO:300:VAL:O	7:BO:308:ILE:HG13	2.02	0.59
1:CA:55:GLY:HA2	1:CA:72:CYS:SG	2.42	0.59
5:CE:152:LYS:HE3	5:CE:154:ILE:HD11	1.83	0.59
5:CE:156:LEU:HD21	5:CE:197:LYS:HB2	1.83	0.59
1:DA:856:GLU:OE1	1:DA:857:ALA:N	2.35	0.59
1:DA:1463:ASP:O	1:DA:1465:GLU:N	2.35	0.59
2:DB:108:MET:SD	2:DB:120:LYS:HA	2.42	0.59
7:DG:33:GLY:HA3	7:DG:230:ARG:NH1	2.18	0.59
1:EA:985:ARG:HD2	1:EA:987:TYR:HB3	1.84	0.59
1:EA:1289:SER:HA	1:EA:1475:GLU:OE1	2.03	0.59
2:EB:262:PHE:CE2	2:EB:269:TYR:HB2	2.37	0.59
2:FB:693:PRO:HB2	2:FB:984:TRP:CZ3	2.38	0.59
6:FF:147:SER:HB3	6:FF:150:GLU:HG2	1.83	0.59
1:AA:558:ALA:O	1:AA:561:LEU:HG	2.03	0.59
3:AC:77:SER:O	3:AC:210:LEU:HA	2.03	0.59
1:BA:947:LEU:HB2	1:BA:982:VAL:HG11	1.84	0.59
4:BD:22:ILE:HD12	7:BG:45:LEU:HA	1.84	0.59
7:BG:250:ILE:HG22	7:BG:251:SER:H	1.68	0.59
1:CA:680:LEU:HD12	1:CA:820:TYR:CD1	2.38	0.59
1:CA:1060:GLU:O	1:CA:1063:MET:N	2.35	0.59
2:CB:857:PRO:HA	2:CB:871:ILE:HD11	1.85	0.59
3:CC:70:ILE:O	3:CC:72:ILE:N	2.35	0.59
1:DA:818:THR:HG23	2:DB:780:GLY:HA3	1.83	0.59
1:DA:1545:ASP:CG	1:DA:1546:VAL:N	2.61	0.59
2:DB:986:PHE:CD2	2:DB:992:PRO:HG3	2.38	0.59
6:DF:83:PRO:O	6:DF:151:LEU:HD22	2.03	0.59
11:DK:118:GLN:O	11:DK:121:LEU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:672:ASP:HB2	2:EB:783:MET:HE3	1.85	0.59
1:EA:1092:GLU:O	1:EA:1094:ALA:N	2.35	0.59
2:EB:41:ALA:HB1	2:EB:501:ARG:HH11	1.67	0.59
2:EB:401:GLU:HA	2:EB:649:MET:HE2	1.85	0.59
2:EB:547:HIS:HB2	2:EB:760:TYR:OH	2.02	0.59
2:EB:811:LEU:HD13	2:EB:823:GLN:NE2	2.14	0.59
7:EG:89:ILE:HA	7:EG:118:CYS:SG	2.43	0.59
7:EG:226:ASP:O	2:FB:434:ARG:NH1	2.36	0.59
14:EN:58:PHE:HA	14:EN:139:VAL:HG23	1.85	0.59
14:EN:71:PRO:HB2	14:EN:89:ILE:HD12	1.85	0.59
1:FA:7:VAL:HG11	2:FB:1175:THR:O	2.03	0.59
1:FA:1502:PRO:O	1:FA:1503:HIS:HB2	2.02	0.59
1:AA:591:ARG:HB2	1:AA:633:MET:HG2	1.83	0.59
1:AA:1136:VAL:HG11	1:AA:1140:PHE:HD2	1.67	0.59
1:AA:1538:VAL:HA	1:AA:1541:ILE:HD11	1.85	0.59
2:AB:412:ILE:O	2:AB:416:LYS:HG2	2.03	0.59
3:AC:201:GLU:O	3:AC:202:ILE:HD12	2.01	0.59
8:AH:60:ALA:O	8:AH:140:ALA:HB1	2.03	0.59
7:AO:279:VAL:HG22	7:BG:159:LYS:NZ	2.18	0.59
1:BA:440:SER:N	1:BA:458:GLN:HE22	2.01	0.59
1:BA:748:ASN:ND2	1:BA:1072:ASN:OD1	2.36	0.59
2:BB:554:GLN:HA	2:BB:646:HIS:CD2	2.38	0.59
3:BC:255:VAL:HG12	3:BC:256:ILE:HG12	1.85	0.59
14:BN:55:LEU:O	14:BN:136:VAL:HG13	2.02	0.59
1:CA:549:MET:SD	1:CA:553:GLN:NE2	2.76	0.59
1:CA:947:LEU:HB2	1:CA:982:VAL:HG11	1.84	0.59
7:CG:10:ASN:HB2	7:CG:14:ALA:HB3	1.85	0.59
10:CJ:54:VAL:C	10:CJ:56:LEU:H	2.10	0.59
2:DB:75:ASP:OD2	2:DB:93:ASN:ND2	2.36	0.59
2:DB:212:ASN:ND2	2:DB:239:VAL:HG22	2.11	0.59
5:DE:178:ILE:HG22	5:DE:212:ARG:HB3	1.85	0.59
2:EB:683:ASN:HA	14:EN:150:TYR:CE1	2.37	0.59
12:EL:30:ILE:O	12:EL:57:LEU:HD12	2.02	0.59
1:FA:1247:SER:OG	1:FA:1249:GLU:N	2.33	0.59
1:FA:1298:ASP:N	1:FA:1298:ASP:OD1	2.31	0.59
1:FA:1658:ALA:O	7:FG:104:LEU:HA	2.03	0.59
2:FB:609:ARG:O	2:FB:612:LYS:HB3	2.03	0.59
7:FG:50:ALA:HA	7:FG:113:PHE:CE2	2.38	0.59
1:AA:399:LEU:CD1	7:AO:270:LEU:HD13	2.33	0.58
1:AA:1019:LEU:HD23	1:AA:1020:GLN:N	2.18	0.58
2:AB:41:ALA:HB1	2:AB:501:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:242:ASP:OD2	2:AB:414:LYS:NZ	2.32	0.58
2:AB:1073:GLU:CD	2:AB:1073:GLU:H	2.11	0.58
3:AC:147:PRO:HG2	3:AC:150:SER:HB2	1.85	0.58
2:BB:401:GLU:HA	2:BB:649:MET:HE2	1.85	0.58
2:BB:1073:GLU:H	2:BB:1073:GLU:CD	2.10	0.58
1:CA:966:LEU:HD12	1:CA:967:PRO:HD2	1.83	0.58
1:CA:1273:THR:OG1	1:CA:1291:VAL:HB	2.03	0.58
1:CA:1294:MET:HG2	1:CA:1296:PHE:CE1	2.38	0.58
2:CB:105:ALA:O	2:CB:135:GLY:HA3	2.03	0.58
2:CB:164:MET:O	2:CB:167:SER:OG	2.20	0.58
2:CB:693:PRO:HB2	2:CB:984:TRP:CZ3	2.37	0.58
3:CC:65:ASN:OD1	3:CC:68:ARG:NH1	2.36	0.58
3:CC:88:ASN:OD1	3:CC:202:ILE:HD11	2.03	0.58
1:DA:615:ARG:NH2	2:DB:928:SER:OG	2.37	0.58
2:DB:35:PHE:HB3	2:DB:38:LEU:HD23	1.85	0.58
2:DB:228:SER:HB2	2:DB:253:LEU:HD13	1.84	0.58
2:DB:886:ASN:O	2:DB:902:SER:N	2.27	0.58
3:DC:233:ILE:HD11	3:DC:291:LEU:HG	1.84	0.58
7:DG:149:ILE:HG22	7:DG:150:HIS:CD2	2.32	0.58
1:EA:429:THR:HG1	7:EO:273:VAL:HG11	1.68	0.58
1:EA:468:ARG:HD2	1:EA:1021:ARG:NH1	2.17	0.58
1:EA:832:ASP:OD2	1:EA:924:SER:OG	2.20	0.58
4:ED:32:SER:N	4:ED:35:GLU:OE2	2.36	0.58
5:EE:54:GLN:HB2	5:EE:57:MET:HE1	1.85	0.58
2:FB:832:TRP:CZ3	2:FB:834:LYS:HA	2.38	0.58
1:AA:522:ALA:HB1	1:AA:532:GLY:HA2	1.84	0.58
5:AE:19:VAL:O	5:AE:23:VAL:HG23	2.03	0.58
13:AM:59:ARG:HD2	13:AM:60:LEU:HD21	1.85	0.58
1:BA:1540:GLY:HA2	5:BE:148:GLU:OE2	2.03	0.58
2:BB:41:ALA:HB1	2:BB:501:ARG:HH11	1.68	0.58
2:BB:916:LYS:HE3	2:BB:1040:VAL:HG13	1.85	0.58
2:BB:1060:VAL:HG21	7:BO:311:GLU:CD	2.28	0.58
2:BB:1060:VAL:HG21	7:BO:311:GLU:OE2	2.03	0.58
5:BE:178:ILE:HG22	5:BE:212:ARG:HB3	1.85	0.58
7:BG:29:ASP:C	7:BG:31:LYS:H	2.11	0.58
1:CA:1456:PHE:CB	1:CA:1474:LEU:HD11	2.32	0.58
2:CB:41:ALA:HB1	2:CB:501:ARG:HH11	1.68	0.58
2:CB:832:TRP:CZ3	2:CB:834:LYS:HA	2.38	0.58
4:CD:82:LEU:HD22	7:CG:67:ASN:HD22	1.68	0.58
1:DA:473:GLY:HA2	2:DB:1071:VAL:O	2.03	0.58
1:DA:1617:THR:CB	1:DA:1620:GLN:HG2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:393:ASN:ND2	2:DB:395:ASP:HB2	2.18	0.58
2:DB:693:PRO:HB2	2:DB:984:TRP:CZ3	2.38	0.58
2:DB:852:VAL:HG13	2:DB:856:ASP:HB2	1.84	0.58
7:DG:72:LYS:O	7:DG:81:VAL:HG23	2.03	0.58
1:EA:477:ASN:OD1	2:EB:1049:THR:HG23	2.03	0.58
3:FC:128:ASP:OD1	3:FC:174:ARG:NH1	2.36	0.58
5:FE:56:LYS:HG3	5:FE:84:ASP:OD2	2.03	0.58
1:AA:585:ASP:OD1	1:AA:644:ARG:NH1	2.36	0.58
1:AA:1215:VAL:HG22	1:AA:1216:THR:H	1.67	0.58
1:AA:1289:SER:HA	1:AA:1475:GLU:OE1	2.04	0.58
2:AB:940:GLU:HB2	2:AB:1012:PRO:HB2	1.84	0.58
5:AE:157:SER:OG	5:AE:160:GLU:HG3	2.04	0.58
9:AI:73:LYS:HA	9:AI:76:LEU:HD12	1.85	0.58
14:AN:122:ALA:O	14:AN:130:PRO:HA	2.03	0.58
1:BA:387:SER:HA	1:BA:390:LEU:HD12	1.84	0.58
1:BA:596:HIS:H	1:BA:596:HIS:HD2	1.50	0.58
2:BB:262:PHE:CZ	2:BB:269:TYR:HB2	2.37	0.58
1:CA:1139:ASN:HB2	5:CE:205:SER:HA	1.85	0.58
1:DA:1118:VAL:HG11	5:DE:154:ILE:HG13	1.85	0.58
2:DB:22:GLU:OE2	10:DJ:55:ASP:N	2.33	0.58
2:DB:547:HIS:HB2	2:DB:760:TYR:OH	2.04	0.58
2:DB:625:GLU:HB2	2:DB:643:PHE:O	2.03	0.58
2:DB:703:LEU:HD23	2:DB:754:ALA:HB3	1.85	0.58
3:DC:101:ILE:HA	3:DC:104:VAL:HG23	1.83	0.58
7:DG:248:THR:HG1	7:DG:249:LEU:H	1.45	0.58
1:EA:1621:PHE:CD1	1:EA:1624:LYS:HE2	2.38	0.58
2:EB:52:LEU:HB3	2:EB:61:LEU:CD1	2.33	0.58
7:EG:82:LEU:HG	7:EG:124:VAL:HA	1.85	0.58
1:FA:55:GLY:HA2	1:FA:72:CYS:SG	2.43	0.58
1:FA:1258:ILE:O	1:FA:1501:ILE:HG13	2.03	0.58
1:FA:1621:PHE:CD1	1:FA:1624:LYS:HE2	2.38	0.58
2:FB:41:ALA:HB1	2:FB:501:ARG:HH11	1.67	0.58
2:FB:274:VAL:HA	2:FB:277:LEU:HD12	1.85	0.58
8:FH:101:ALA:HB2	8:FH:116:TYR:CE1	2.37	0.58
1:AA:349:LEU:HD12	1:AA:351:LYS:HE3	1.85	0.58
1:AA:545:SER:O	1:AA:545:SER:OG	2.19	0.58
1:AA:1326:GLU:OE1	1:AA:1454:HIS:HB3	2.03	0.58
1:AA:1333:ILE:HD11	1:AA:1483:LEU:HD11	1.85	0.58
2:AB:19:LEU:HD21	10:AJ:25:LEU:HB3	1.84	0.58
2:AB:782:ASP:HB3	2:AB:788:ILE:HG12	1.85	0.58
2:AB:916:LYS:HE3	2:AB:1040:VAL:HG13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:65:ASN:OD1	3:AC:68:ARG:NH1	2.36	0.58
8:AH:15:VAL:HG22	8:AH:26:ILE:HG12	1.84	0.58
7:AO:265:SER:N	7:AO:268:GLU:OE1	2.36	0.58
7:AO:265:SER:O	7:AO:267:ALA:N	2.29	0.58
1:BA:1261:VAL:HG12	1:BA:1498:ILE:HD12	1.84	0.58
4:CD:89:LEU:HA	4:CD:92:ILE:HD12	1.86	0.58
1:DA:537:GLN:HE21	1:DA:541:GLY:HA2	1.67	0.58
1:DA:581:ILE:HD11	1:DA:605:VAL:HG21	1.85	0.58
1:DA:966:LEU:HD23	1:DA:969:PHE:CD2	2.39	0.58
2:DB:584:CYS:HB2	2:DB:598:HIS:ND1	2.18	0.58
2:DB:863:ASP:HB3	2:DB:866:LEU:HB2	1.86	0.58
4:DD:89:LEU:HA	4:DD:92:ILE:HD12	1.86	0.58
13:DM:10:ILE:HB	14:DN:70:LEU:HD21	1.86	0.58
14:DN:55:LEU:HD12	14:DN:56:ILE:H	1.67	0.58
2:EB:213:HIS:HB2	2:EB:643:PHE:HZ	1.68	0.58
2:EB:1178:ILE:HD12	2:EB:1179:PRO:O	2.03	0.58
9:EI:38:PRO:HG2	9:EI:41:GLN:HB2	1.85	0.58
1:FA:482:SER:HB2	2:FB:1044:PHE:HB3	1.85	0.58
1:AA:475:ARG:NH1	2:AB:1068:GLY:O	2.36	0.58
2:AB:474:SER:O	2:AB:476:LEU:N	2.36	0.58
2:AB:975:HIS:NE2	2:AB:1003:ALA:HB2	2.18	0.58
2:AB:1046:VAL:HG22	2:AB:1047:ARG:H	1.67	0.58
6:AF:100:GLN:HG2	7:AG:112:PRO:CB	2.34	0.58
14:AN:55:LEU:HB3	14:AN:136:VAL:HG22	1.84	0.58
2:BB:774:ALA:HB3	2:BB:948:ILE:HA	1.85	0.58
7:BG:37:CYS:HB3	7:BG:125:TRP:HD1	1.69	0.58
9:BI:2:SER:HA	9:BI:9:PHE:O	2.04	0.58
3:CC:101:ILE:HA	3:CC:104:VAL:HG23	1.84	0.58
1:DA:586:VAL:HG13	1:DA:638:PRO:HG2	1.84	0.58
1:DA:1342:PRO:CG	2:DB:259:THR:HG22	2.33	0.58
5:EE:137:GLU:O	5:EE:139:ALA:N	2.36	0.58
1:FA:669:LEU:HD13	1:FA:673:HIS:HB3	1.85	0.58
7:FG:72:LYS:O	7:FG:81:VAL:HG23	2.04	0.58
1:AA:211:THR:O	1:AA:214:ASP:N	2.37	0.58
9:AI:101:LEU:HD11	9:AI:122:ARG:HH22	1.68	0.58
1:BA:558:ALA:O	1:BA:561:LEU:HG	2.04	0.58
1:BA:674:ILE:O	1:BA:678:VAL:HG23	2.04	0.58
2:BB:718:GLN:CD	2:BB:920:ARG:HA	2.29	0.58
1:CA:522:ALA:HB1	1:CA:532:GLY:HA2	1.86	0.58
1:CA:835:LEU:HD22	1:CA:915:GLY:O	2.04	0.58
1:CA:1240:LEU:HD11	1:CA:1529:MET:SD	2.42	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1248:ASP:O	1:CA:1251:ALA:HB3	2.03	0.58
1:CA:1619:CYS:O	1:CA:1622:LEU:HB3	2.04	0.58
2:CB:474:SER:O	2:CB:476:LEU:N	2.36	0.58
2:CB:753:LYS:O	2:CB:981:SER:OG	2.17	0.58
2:CB:795:GLU:OE2	3:CC:216:HIS:HA	2.04	0.58
2:CB:846:PRO:HG3	2:CB:858:ILE:O	2.03	0.58
1:DA:669:LEU:HD22	1:DA:673:HIS:ND1	2.19	0.58
1:DA:785:GLN:O	1:DA:794:VAL:HG22	2.02	0.58
2:DB:1053:ASN:ND2	2:DB:1054:SER:H	2.02	0.58
3:DC:303:GLU:OE1	10:DJ:43:ARG:NH2	2.36	0.58
14:DN:71:PRO:HB2	14:DN:89:ILE:HD12	1.86	0.58
1:EA:553:GLN:NE2	2:FB:834:LYS:HB2	2.18	0.58
2:EB:130:LEU:HD22	2:EB:198:GLY:HA3	1.84	0.58
2:EB:983:PRO:HB2	2:EB:984:TRP:CE3	2.39	0.58
5:EE:57:MET:SD	5:EE:57:MET:N	2.67	0.58
2:FB:242:ASP:OD1	2:FB:244:THR:HG23	2.04	0.58
2:FB:783:MET:O	2:FB:785:ASP:N	2.37	0.58
14:FN:55:LEU:C	14:FN:56:ILE:HG13	2.28	0.58
1:AA:125:LEU:HD11	1:AA:219:LEU:HD12	1.85	0.58
1:AA:1474:LEU:HD13	1:AA:1475:GLU:N	2.16	0.58
1:BA:1553:TYR:CZ	5:BE:147:HIS:CD2	2.92	0.58
2:BB:1026:ILE:HD11	2:BB:1028:VAL:HG13	1.86	0.58
7:BG:88:LYS:O	7:BG:118:CYS:HB3	2.03	0.58
9:BI:38:PRO:HG2	9:BI:41:GLN:HB2	1.86	0.58
1:CA:1236:PRO:HB2	1:CA:1524:VAL:HG23	1.86	0.58
2:CB:262:PHE:CZ	2:CB:269:TYR:HB2	2.39	0.58
2:CB:675:ALA:O	2:CB:690:GLU:HG2	2.02	0.58
3:CC:328:LEU:HB3	11:CK:121:LEU:HD11	1.85	0.58
5:CE:7:ARG:O	5:CE:11:ARG:HG3	2.03	0.58
1:DA:1456:PHE:CB	1:DA:1474:LEU:HD11	2.31	0.58
2:DB:572:PRO:O	2:DB:576:THR:OG1	2.13	0.58
2:DB:588:ILE:O	2:DB:591:LYS:HG2	2.02	0.58
7:DG:37:CYS:HB3	7:DG:125:TRP:CD1	2.38	0.58
9:DI:2:SER:HB2	9:DI:11:LEU:HD21	1.85	0.58
10:DJ:43:ARG:O	10:DJ:47:ARG:HG3	2.04	0.58
12:DL:32:ALA:HB2	12:DL:57:LEU:HG	1.86	0.58
1:EA:1294:MET:HG2	1:EA:1296:PHE:CE1	2.38	0.58
2:EB:850:THR:N	2:EB:882:ILE:HG13	2.16	0.58
1:FA:111:LYS:O	1:FA:115:VAL:HG23	2.03	0.58
1:FA:468:ARG:HD2	1:FA:1021:ARG:NH1	2.19	0.58
1:FA:1151:ASN:HB3	1:FA:1154:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:962:MET:O	2:FB:965:GLU:N	2.37	0.58
3:FC:230:LEU:HD12	3:FC:231:PRO:HD2	1.85	0.58
7:FG:40:ARG:HD3	7:FG:123:TYR:HE1	1.69	0.58
8:FH:7:ASP:HB2	8:FH:57:VAL:O	2.03	0.58
2:AB:558:VAL:HA	2:AB:561:ILE:HG13	1.86	0.58
2:AB:975:HIS:HE2	2:AB:1003:ALA:HB2	1.68	0.58
1:BA:611:GLU:CD	1:BA:615:ARG:HD2	2.28	0.58
1:BA:1294:MET:HG2	1:BA:1296:PHE:CE1	2.39	0.58
2:BB:130:LEU:HD22	2:BB:198:GLY:HA3	1.85	0.58
7:BG:61:VAL:HG11	7:BG:87:LEU:HD21	1.84	0.58
13:BM:10:ILE:HB	14:BN:70:LEU:HD21	1.85	0.58
1:CA:499:PRO:HG3	1:CA:609:PRO:HA	1.86	0.58
1:CA:550:SER:O	1:CA:553:GLN:HG3	2.03	0.58
1:CA:591:ARG:HB2	1:CA:633:MET:HG2	1.86	0.58
2:CB:751:ILE:HG23	2:CB:752:VAL:HG22	1.85	0.58
2:CB:874:TYR:CZ	2:CB:876:SER:HB2	2.39	0.58
1:DA:727:THR:OG1	1:DA:728:GLY:N	2.37	0.58
1:DA:1217:LEU:HD11	1:DA:1572:ARG:HD2	1.85	0.58
1:DA:1538:VAL:HA	1:DA:1541:ILE:HD11	1.86	0.58
1:DA:1586:ALA:O	1:DA:1589:MET:N	2.36	0.58
13:DM:39:ASP:C	13:DM:53:LEU:HD12	2.28	0.58
1:FA:943:ILE:HA	1:FA:986:PHE:HB2	1.85	0.58
2:FB:644:GLY:HA2	2:FB:648:ARG:CZ	2.34	0.58
12:FL:33:GLU:HG2	12:FL:55:ILE:HG12	1.85	0.58
7:FO:267:ALA:C	7:FO:269:SER:H	2.12	0.58
7:FO:297:LEU:HD22	7:FO:310:TYR:CE2	2.38	0.58
1:AA:1108:HIS:CG	1:AA:1117:SER:HB3	2.39	0.58
6:AF:101:ILE:HD13	6:AF:120:ILE:HG22	1.85	0.58
8:AH:7:ASP:HB2	8:AH:57:VAL:O	2.04	0.58
1:BA:1447:GLN:HG3	1:BA:1460:TYR:HB3	1.84	0.58
2:BB:52:LEU:HB3	2:BB:61:LEU:CD1	2.34	0.58
4:BD:32:SER:N	4:BD:35:GLU:OE2	2.37	0.58
1:CA:596:HIS:H	1:CA:596:HIS:HD2	1.51	0.58
1:CA:809:VAL:HG13	1:CA:813:LEU:HD11	1.85	0.58
1:CA:850:SER:OG	1:CA:851:VAL:N	2.31	0.58
1:CA:1289:SER:HA	1:CA:1475:GLU:OE1	2.02	0.58
6:CF:101:ILE:HD13	6:CF:120:ILE:HG22	1.85	0.58
1:DA:758:GLU:O	1:DA:760:TRP:N	2.36	0.58
1:DA:1333:ILE:HD11	1:DA:1483:LEU:HD11	1.85	0.58
1:EA:480:ALA:HB2	2:EB:1046:VAL:HG23	1.86	0.58
1:EA:943:ILE:HA	1:EA:986:PHE:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1273:THR:OG1	1:EA:1291:VAL:HB	2.03	0.58
2:EB:66:LYS:C	2:EB:68:ILE:H	2.11	0.58
2:EB:960:ILE:O	2:EB:963:PHE:HB2	2.04	0.58
1:FA:1271:ILE:HG23	9:FI:50:THR:HG22	1.85	0.58
2:FB:675:ALA:O	2:FB:690:GLU:HG2	2.03	0.58
5:FE:156:LEU:HD21	5:FE:197:LYS:HB2	1.86	0.58
11:FK:46:LYS:HE3	11:FK:66:VAL:O	2.03	0.58
2:AB:392:ASP:HB3	2:AB:399:HIS:CE1	2.39	0.58
5:AE:7:ARG:O	5:AE:11:ARG:HG3	2.03	0.58
7:AG:88:LYS:O	7:AG:118:CYS:HB3	2.03	0.58
7:AG:174:GLU:HG3	2:BB:463:TYR:HE2	1.69	0.58
11:AK:83:ASN:HB3	11:AK:86:VAL:HG23	1.85	0.58
1:BA:1324:LEU:HD22	1:BA:1492:ILE:HG13	1.85	0.58
1:BA:1502:PRO:O	1:BA:1503:HIS:HB2	2.03	0.58
2:BB:286:ARG:HG2	13:BM:27:PHE:CG	2.38	0.58
2:BB:940:GLU:HB2	2:BB:1012:PRO:HB2	1.86	0.58
6:BF:70:LYS:HG3	7:BG:94:PRO:O	2.04	0.58
1:CA:422:ARG:HD2	7:CO:271:PRO:O	2.03	0.58
1:CA:850:SER:O	1:CA:852:ASP:N	2.37	0.58
2:CB:66:LYS:C	2:CB:68:ILE:H	2.09	0.58
2:CB:408:LEU:HA	2:CB:411:MET:HG3	1.86	0.58
2:CB:1138:ALA:O	2:CB:1141:LEU:HG	2.03	0.58
2:CB:1143:THR:O	2:CB:1143:THR:HG23	2.03	0.58
13:CM:78:VAL:O	13:CM:91:TYR:N	2.29	0.58
1:DA:123:ARG:HD3	1:DA:337:TYR:CE1	2.38	0.58
1:DA:947:LEU:HB2	1:DA:982:VAL:HG11	1.86	0.58
1:DA:1289:SER:HA	1:DA:1475:GLU:OE1	2.04	0.58
3:DC:77:SER:O	3:DC:210:LEU:HA	2.04	0.58
14:DN:97:SER:HB3	14:DN:105:SER:HB3	1.86	0.58
1:EA:522:ALA:HB1	1:EA:532:GLY:HA2	1.86	0.58
1:EA:727:THR:OG1	1:EA:728:GLY:N	2.33	0.58
1:EA:987:TYR:C	1:EA:987:TYR:CD2	2.81	0.58
1:EA:1637:PRO:HG3	1:EA:1647:ASN:HD21	1.68	0.58
2:EB:98:SER:HA	2:EB:421:LEU:HD21	1.85	0.58
2:EB:939:SER:OG	2:EB:943:ILE:N	2.37	0.58
2:EB:1151:ILE:HG22	2:EB:1152:PHE:H	1.69	0.58
10:EJ:31:ASP:OD1	10:EJ:34:THR:HB	2.03	0.58
12:EL:40:LEU:HD22	12:EL:44:ASP:HB3	1.86	0.58
7:EO:267:ALA:O	7:EO:270:LEU:HG	2.04	0.58
1:FA:530:TRP:HZ2	1:FA:582:LYS:HA	1.68	0.58
1:FA:818:THR:CG2	2:FB:780:GLY:HA3	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1538:VAL:HA	1:FA:1541:ILE:HD11	1.85	0.58
2:FB:775:VAL:H	2:FB:1028:VAL:HG12	1.69	0.58
2:FB:1198:TYR:H	2:FB:1198:TYR:HD2	1.50	0.58
7:FO:282:ASP:O	7:FO:286:ILE:HG12	2.04	0.58
1:AA:993:GLN:CD	2:AB:676:VAL:HG21	2.28	0.57
2:AB:1006:ASN:HB3	2:AB:1010:ASN:O	2.03	0.57
6:AF:147:SER:HB3	6:AF:150:GLU:HG2	1.86	0.57
1:BA:1019:LEU:HD21	1:BA:1194:GLY:HA2	1.85	0.57
2:BB:52:LEU:HD22	2:BB:61:LEU:HD21	1.86	0.57
2:BB:474:SER:C	2:BB:476:LEU:H	2.12	0.57
3:BC:150:SER:OG	3:BC:155:GLU:OE2	2.15	0.57
10:BJ:43:ARG:O	10:BJ:47:ARG:HG3	2.04	0.57
1:CA:1003:ARG:NH2	2:CB:520:LEU:HD22	2.19	0.57
1:CA:1288:ARG:HB2	1:CA:1478:ALA:HA	1.86	0.57
1:CA:1291:VAL:HG22	1:CA:1473:LYS:CD	2.34	0.57
2:CB:904:LYS:C	2:CB:905:TYR:HD1	2.11	0.57
1:DA:596:HIS:H	1:DA:596:HIS:HD2	1.51	0.57
1:DA:597:LYS:HB2	2:DB:1082:HIS:CE1	2.38	0.57
1:DA:1447:GLN:HG3	1:DA:1460:TYR:HB3	1.85	0.57
2:DB:548:LYS:HA	2:DB:550:ARG:NH2	2.19	0.57
1:EA:1094:ALA:HB2	1:EA:1132:TYR:HB3	1.86	0.57
9:EI:88:GLN:OE1	9:EI:119:TYR:HB2	2.03	0.57
1:FA:7:VAL:HG12	1:FA:9:SER:H	1.69	0.57
2:FB:380:LYS:HE3	2:FB:637:TYR:HB3	1.85	0.57
5:FE:98:ILE:O	5:FE:102:GLU:HB2	2.04	0.57
1:AA:892:LEU:O	1:AA:896:THR:OG1	2.22	0.57
1:AA:1003:ARG:NH2	2:AB:520:LEU:HD22	2.19	0.57
2:AB:848:ILE:HG13	12:AL:60:ARG:HA	1.85	0.57
2:AB:967:LEU:H	2:AB:967:LEU:HD12	1.67	0.57
7:AG:45:LEU:CD1	7:AG:118:CYS:HB2	2.35	0.57
7:AO:279:VAL:HG22	7:BG:159:LYS:HZ2	1.68	0.57
1:BA:125:LEU:HD11	1:BA:219:LEU:HD12	1.86	0.57
3:CC:325:ALA:O	3:CC:328:LEU:N	2.35	0.57
4:CD:22:ILE:H	7:CG:76:LYS:NZ	2.03	0.57
14:CN:55:LEU:HB3	14:CN:136:VAL:HG22	1.86	0.57
2:DB:286:ARG:HG2	13:DM:27:PHE:CG	2.39	0.57
2:DB:783:MET:O	2:DB:785:ASP:N	2.37	0.57
7:DG:139:ILE:HD12	7:DG:140:GLN:H	1.69	0.57
1:EA:896:THR:O	1:EA:900:VAL:HG13	2.04	0.57
1:EA:1543:SER:OG	1:EA:1544:ASN:N	2.37	0.57
2:EB:886:ASN:N	2:EB:902:SER:O	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EH:30:SER:HB3	8:EH:36:CYS:HB3	1.85	0.57
12:EL:33:GLU:HG2	12:EL:55:ILE:HG12	1.85	0.57
1:FA:30:LYS:NZ	1:FA:51:ASP:OD2	2.27	0.57
1:FA:102:CYS:HB2	1:FA:109:ARG:HG2	1.86	0.57
1:FA:752:LYS:HG3	1:FA:768:GLU:HA	1.86	0.57
1:FA:1545:ASP:CG	1:FA:1546:VAL:N	2.61	0.57
11:FK:83:ASN:HB3	11:FK:86:VAL:HG23	1.85	0.57
1:AA:699:CYS:SG	1:AA:700:ILE:N	2.77	0.57
1:AA:1288:ARG:HB2	1:AA:1478:ALA:HA	1.86	0.57
2:AB:98:SER:OG	2:AB:99:VAL:N	2.37	0.57
2:AB:474:SER:C	2:AB:476:LEU:H	2.12	0.57
1:BA:58:LEU:HA	7:BO:298:PRO:HG3	1.85	0.57
1:BA:586:VAL:HG13	1:BA:638:PRO:HG2	1.86	0.57
1:BA:752:LYS:HG3	1:BA:768:GLU:HA	1.86	0.57
1:BA:832:ASP:OD2	1:BA:924:SER:OG	2.20	0.57
2:BB:403:LEU:HD11	2:BB:408:LEU:HB2	1.85	0.57
2:BB:986:PHE:CD2	2:BB:992:PRO:HG3	2.39	0.57
3:BC:164:ALA:HB2	3:BC:191:ILE:HB	1.86	0.57
6:BF:106:PRO:HG2	7:BG:55:GLU:HG2	1.85	0.57
1:CA:1269:LYS:HD2	1:CA:1271:ILE:HD11	1.87	0.57
1:CA:1298:ASP:N	1:CA:1298:ASP:OD1	2.37	0.57
1:DA:91:PHE:CD2	1:DA:249:THR:HG22	2.39	0.57
1:DA:1276:THR:HG23	1:DA:1288:ARG:NH1	2.18	0.57
1:DA:1305:GLU:HG3	9:DI:60:LEU:HG	1.85	0.57
2:DB:644:GLY:HA2	2:DB:648:ARG:CZ	2.34	0.57
7:DG:50:ALA:HA	7:DG:113:PHE:CE2	2.38	0.57
2:EB:474:SER:C	2:EB:476:LEU:H	2.12	0.57
7:EO:314:THR:HB	7:EO:316:GLU:OE2	2.05	0.57
1:FA:1139:ASN:HB2	5:FE:205:SER:HA	1.86	0.57
2:FB:104:ILE:HD12	2:FB:169:ARG:HG3	1.86	0.57
7:FG:139:ILE:HD12	7:FG:140:GLN:H	1.68	0.57
1:AA:897:SER:HA	1:AA:900:VAL:HG22	1.86	0.57
1:AA:1085:LEU:HD13	6:AF:84:TYR:OH	2.04	0.57
1:AA:1585:ILE:O	1:AA:1589:MET:HG3	2.04	0.57
7:AG:10:ASN:HB2	7:AG:14:ALA:HB3	1.86	0.57
8:AH:57:VAL:HG13	8:AH:144:ILE:HG13	1.84	0.57
1:BA:422:ARG:NH1	7:BO:270:LEU:O	2.37	0.57
1:BA:1151:ASN:HB3	1:BA:1154:LEU:HD12	1.85	0.57
2:BB:714:ARG:HG3	2:BB:922:GLY:HA3	1.86	0.57
2:BB:887:LEU:O	2:BB:888:ILE:HD12	2.04	0.57
11:BK:80:ILE:HD13	11:BK:105:ILE:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:56:GLU:HB2	13:BM:61:GLU:HA	1.86	0.57
1:CA:511:VAL:HG22	1:CA:519:LEU:HD12	1.85	0.57
1:CA:581:ILE:HD11	1:CA:605:VAL:HG21	1.84	0.57
1:CA:1117:SER:C	1:CA:1119:LYS:H	2.11	0.57
1:CA:1242:ILE:HD11	1:CA:1517:ARG:HB3	1.87	0.57
2:CB:212:ASN:ND2	2:CB:239:VAL:HG22	2.14	0.57
7:CG:29:ASP:C	7:CG:31:LYS:H	2.11	0.57
7:CG:159:LYS:NZ	7:DO:276:LYS:HA	2.18	0.57
14:CN:55:LEU:HD12	14:CN:56:ILE:H	1.70	0.57
1:DA:914:ASP:O	1:DA:919:LYS:NZ	2.30	0.57
1:DA:1105:ARG:NH1	1:DA:1138:GLU:OE1	2.34	0.57
2:DB:757:TYR:CZ	2:DB:762:MET:HB3	2.39	0.57
2:DB:986:PHE:CD1	14:DN:160:VAL:HG21	2.39	0.57
6:DF:92:ARG:O	6:DF:96:THR:OG1	2.21	0.57
1:EA:1622:LEU:HD11	2:EB:1194:ILE:HD13	1.86	0.57
2:EB:1053:ASN:ND2	2:EB:1054:SER:H	2.03	0.57
1:FA:457:LYS:C	1:FA:459:ALA:H	2.12	0.57
3:FC:83:VAL:HG22	3:FC:206:ALA:HB1	1.85	0.57
13:FM:12:ILE:HG21	14:FN:68:LYS:HA	1.86	0.57
14:FN:55:LEU:HB3	14:FN:136:VAL:HG22	1.86	0.57
1:AA:468:ARG:HD2	1:AA:1021:ARG:NH1	2.19	0.57
1:AA:968:SER:CB	2:AB:676:VAL:HG23	2.34	0.57
1:AA:1647:ASN:HD22	1:AA:1648:ASN:H	1.52	0.57
2:AB:554:GLN:HA	2:AB:646:HIS:CD2	2.39	0.57
3:AC:321:LEU:HD11	11:AK:124:LEU:HD21	1.86	0.57
9:AI:94:MET:HG2	9:AI:114:CYS:HA	1.85	0.57
12:AL:45:ALA:O	12:AL:47:ARG:N	2.37	0.57
1:BA:1456:PHE:CB	1:BA:1474:LEU:HD11	2.32	0.57
2:BB:757:TYR:CZ	2:BB:762:MET:HB3	2.40	0.57
1:CA:1175:MET:O	1:CA:1178:LEU:HG	2.04	0.57
1:CA:1200:MET:HE1	1:CA:1569:VAL:HG12	1.86	0.57
1:CA:1332:GLU:O	1:CA:1336:GLN:HG2	2.04	0.57
12:CL:33:GLU:HG2	12:CL:55:ILE:HG12	1.85	0.57
13:CM:56:GLU:HB2	13:CM:61:GLU:HA	1.86	0.57
2:DB:383:SER:OG	2:DB:384:LEU:N	2.34	0.57
2:DB:843:ASP:HB2	2:DB:845:LEU:HD21	1.85	0.57
2:DB:960:ILE:O	2:DB:963:PHE:HB2	2.03	0.57
2:DB:1195:ARG:HH21	2:DB:1197:ARG:HD2	1.70	0.57
1:EA:928:MET:HG3	1:EA:933:ALA:HB3	1.87	0.57
1:EA:936:SER:O	1:EA:940:VAL:HG23	2.05	0.57
2:EB:392:ASP:HB3	2:EB:399:HIS:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:649:MET:HE3	2:EB:666:PRO:HG2	1.87	0.57
2:EB:693:PRO:O	2:EB:696:ILE:HG13	2.03	0.57
2:EB:774:ALA:HB3	2:EB:948:ILE:HA	1.85	0.57
2:EB:999:GLN:NE2	14:EN:166:LEU:HD21	2.20	0.57
3:EC:83:VAL:N	12:EL:67:PHE:O	2.29	0.57
11:EK:80:ILE:HD13	11:EK:105:ILE:HD11	1.86	0.57
13:EM:81:PHE:HD1	13:EM:88:ILE:HB	1.69	0.57
1:FA:581:ILE:HD11	1:FA:605:VAL:HG21	1.86	0.57
1:FA:874:GLU:O	1:FA:878:ARG:HB2	2.03	0.57
1:FA:966:LEU:HD12	1:FA:967:PRO:HD2	1.87	0.57
1:FA:1326:GLU:OE1	1:FA:1454:HIS:HB3	2.04	0.57
2:FB:655:TYR:HD1	2:FB:688:HIS:NE2	2.01	0.57
3:FC:216:HIS:CE1	3:FC:218:LYS:HB3	2.40	0.57
12:FL:32:ALA:HB2	12:FL:57:LEU:HG	1.84	0.57
1:AA:363:PRO:HB3	2:AB:1187:SER:OG	2.05	0.57
1:AA:1117:SER:C	1:AA:1119:LYS:H	2.13	0.57
2:AB:72:VAL:HG11	2:AB:94:LYS:HE3	1.86	0.57
2:AB:99:VAL:HG11	2:AB:139:LEU:HD13	1.87	0.57
2:AB:542:LEU:C	2:AB:543:ASN:HD22	2.12	0.57
7:AG:93:ASP:HB2	7:AG:104:LEU:HD12	1.85	0.57
1:BA:422:ARG:HD3	7:BO:272:ILE:HB	1.85	0.57
1:BA:512:THR:O	1:BA:516:ILE:HB	2.05	0.57
1:BA:1105:ARG:NH1	1:BA:1138:GLU:OE1	2.35	0.57
2:BB:273:VAL:HA	2:BB:276:ILE:HD13	1.87	0.57
2:BB:703:LEU:HD23	2:BB:754:ALA:HB3	1.85	0.57
2:BB:887:LEU:HB3	2:BB:901:VAL:HG13	1.87	0.57
13:BM:113:ILE:HG22	13:BM:113:ILE:O	2.04	0.57
1:CA:530:TRP:HZ2	1:CA:582:LYS:HA	1.70	0.57
1:CA:713:VAL:HB	1:CA:738:ASN:HD21	1.70	0.57
1:CA:1092:GLU:O	1:CA:1094:ALA:N	2.38	0.57
1:CA:1484:LEU:HG	2:CB:308:LEU:HD11	1.86	0.57
2:CB:117:VAL:HG12	2:CB:118:GLU:H	1.70	0.57
7:CG:250:ILE:HG22	7:CG:251:SER:H	1.68	0.57
7:DG:89:ILE:HA	7:DG:118:CYS:SG	2.43	0.57
12:DL:63:ARG:HG2	12:DL:64:LEU:N	2.16	0.57
1:EA:596:HIS:H	1:EA:596:HIS:HD2	1.49	0.57
1:EA:1151:ASN:HB3	1:EA:1154:LEU:HD12	1.86	0.57
1:EA:1248:ASP:O	1:EA:1251:ALA:HB3	2.04	0.57
7:EG:139:ILE:HD12	7:EG:140:GLN:H	1.68	0.57
1:FA:1019:LEU:HD21	1:FA:1194:GLY:HA2	1.86	0.57
1:FA:1060:GLU:O	1:FA:1063:MET:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:825:PHE:HE2	2:FB:899:GLN:HA	1.70	0.57
7:FG:29:ASP:O	7:FG:31:LYS:N	2.37	0.57
13:FM:16:GLN:HG3	13:FM:17:ASP:H	1.70	0.57
1:AA:113:VAL:HG22	1:AA:182:LYS:NZ	2.19	0.57
1:AA:425:ASN:OD1	7:AO:272:ILE:HG23	2.05	0.57
1:AA:596:HIS:H	1:AA:596:HIS:HD2	1.52	0.57
1:AA:804:GLU:CD	1:AA:804:GLU:H	2.10	0.57
3:AC:100:ARG:HH12	3:AC:193:LEU:C	2.13	0.57
5:AE:70:SER:OG	5:AE:71:LYS:N	2.37	0.57
1:BA:1003:ARG:CZ	2:BB:520:LEU:HD22	2.34	0.57
5:BE:98:ILE:O	5:BE:102:GLU:HB2	2.04	0.57
14:BN:110:LEU:HB3	14:BN:119:LEU:HB3	1.87	0.57
1:CA:74:GLY:HA3	1:CA:364:PRO:HB3	1.85	0.57
1:CA:1136:VAL:HG11	1:CA:1140:PHE:HD2	1.69	0.57
1:CA:1539:ASP:O	5:CE:147:HIS:NE2	2.38	0.57
2:CB:825:PHE:HE2	2:CB:899:GLN:HA	1.68	0.57
2:CB:1195:ARG:HH21	2:CB:1197:ARG:HD2	1.68	0.57
7:CG:61:VAL:HG11	7:CG:87:LEU:HD21	1.87	0.57
9:CI:72:LYS:HB2	9:CI:73:LYS:HE3	1.86	0.57
10:CJ:2:ILE:HG12	10:CJ:3:VAL:HG23	1.85	0.57
2:DB:940:GLU:HB2	2:DB:1012:PRO:HB2	1.86	0.57
1:EA:470:HIS:O	2:EB:1058:GLN:NE2	2.36	0.57
1:EA:850:SER:OG	1:EA:851:VAL:N	2.26	0.57
2:EB:190:ILE:HG12	2:EB:191:GLY:N	2.19	0.57
2:EB:234:ILE:HB	2:EB:250:LEU:HB2	1.86	0.57
2:EB:397:THR:HA	2:EB:400:GLN:OE1	2.05	0.57
3:EC:80:ALA:HA	3:EC:208:CYS:HB3	1.85	0.57
11:EK:118:GLN:O	11:EK:121:LEU:N	2.37	0.57
1:FA:785:GLN:O	1:FA:794:VAL:HG22	2.05	0.57
1:FA:808:LYS:O	1:FA:809:VAL:C	2.47	0.57
1:FA:1440:ASN:OD1	1:FA:1440:ASN:N	2.37	0.57
2:FB:105:ALA:O	2:FB:135:GLY:HA3	2.04	0.57
2:FB:1047:ARG:NH2	2:FB:1059:PRO:HB3	2.19	0.57
3:AC:42:VAL:HG22	3:AC:56:LEU:HD22	1.87	0.57
1:BA:618:TYR:HB3	1:BA:670:ILE:CD1	2.34	0.57
1:BA:759:TYR:CE1	1:BA:913:PRO:HG3	2.39	0.57
2:BB:474:SER:O	2:BB:476:LEU:N	2.38	0.57
7:BG:57:PRO:HG2	7:BG:58:LEU:H	1.68	0.57
8:BH:38:LEU:HD11	8:BH:123:MET:HG3	1.87	0.57
1:CA:669:LEU:HD12	1:CA:786:TYR:CD1	2.39	0.57
2:CB:845:LEU:HD12	12:CL:58:LYS:HD2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:986:PHE:CD1	14:CN:160:VAL:HG21	2.40	0.57
5:DE:55:ARG:NH2	5:DE:113:GLN:OE1	2.38	0.57
6:DF:101:ILE:HG21	6:DF:120:ILE:HG21	1.85	0.57
1:EA:1016:SER:CB	1:EA:1019:LEU:HD22	2.35	0.57
1:EA:1136:VAL:HG11	1:EA:1140:PHE:HD2	1.69	0.57
1:EA:1474:LEU:HD13	1:EA:1475:GLU:N	2.19	0.57
2:EB:572:PRO:O	2:EB:576:THR:OG1	2.12	0.57
3:EC:314:PHE:O	3:EC:317:SER:OG	2.17	0.57
7:EG:149:ILE:HG22	7:EG:150:HIS:CD2	2.34	0.57
10:EJ:36:LEU:HD11	10:EJ:51:LEU:HB2	1.86	0.57
1:FA:719:ILE:HG12	8:FH:97:MET:HG2	1.87	0.57
1:FA:1485:MET:HA	1:FA:1488:ILE:HD12	1.86	0.57
2:FB:97:VAL:HG13	2:FB:141:LEU:HD11	1.86	0.57
1:AA:1136:VAL:HG22	1:AA:1174:TYR:CE1	2.39	0.57
1:AA:1294:MET:HG2	1:AA:1296:PHE:CE1	2.40	0.57
1:AA:1456:PHE:CB	1:AA:1474:LEU:HD11	2.33	0.57
2:AB:693:PRO:O	2:AB:696:ILE:HG13	2.04	0.57
2:AB:775:VAL:H	2:AB:1028:VAL:HG12	1.69	0.57
10:AJ:45:CYS:O	10:AJ:48:ARG:HB3	2.05	0.57
1:BA:76:GLN:NE2	2:BB:1111:LEU:HD12	2.19	0.57
1:BA:519:LEU:O	1:BA:523:VAL:HG23	2.03	0.57
1:BA:585:ASP:OD1	1:BA:644:ARG:NH1	2.38	0.57
1:BA:641:GLU:HB2	6:BF:99:LEU:HD22	1.87	0.57
1:BA:966:LEU:HD23	1:BA:969:PHE:CD2	2.40	0.57
1:BA:1512:PRO:HB3	1:BA:1517:ARG:HA	1.86	0.57
1:BA:1553:TYR:HD1	5:BE:144:ILE:HB	1.70	0.57
2:BB:229:TYR:HA	2:BB:253:LEU:HD22	1.86	0.57
1:CA:1326:GLU:OE1	1:CA:1454:HIS:HB3	2.05	0.57
3:CC:102:GLY:HA3	12:CL:69:ALA:CB	2.35	0.57
14:CN:75:GLU:H	14:CN:91:ASP:CB	2.17	0.57
1:DA:74:GLY:HA3	1:DA:364:PRO:HB3	1.87	0.57
2:DB:558:VAL:HA	2:DB:561:ILE:HG13	1.87	0.57
3:DC:230:LEU:HD12	3:DC:231:PRO:HD2	1.87	0.57
8:DH:7:ASP:HB2	8:DH:57:VAL:O	2.05	0.57
8:DH:13:SER:N	8:DH:27:GLU:O	2.36	0.57
1:EA:874:GLU:O	1:EA:878:ARG:HB2	2.05	0.57
1:EA:1557:ALA:HB2	5:EE:150:VAL:HG22	1.86	0.57
2:EB:38:LEU:O	2:EB:41:ALA:N	2.24	0.57
2:EB:170:CYS:SG	2:EB:172:LEU:N	2.77	0.57
2:EB:782:ASP:HB3	2:EB:788:ILE:HG12	1.86	0.57
4:ED:22:ILE:HG23	7:EG:44:ALA:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:ED:31:VAL:HG23	7:EG:38:ILE:HB	1.87	0.57
1:FA:480:ALA:HB1	1:FA:501:PHE:CZ	2.39	0.57
1:FA:1162:ASN:H	1:FA:1165:LYS:HD2	1.69	0.57
2:FB:532:HIS:ND1	2:FB:700:LEU:HD13	2.19	0.57
2:FB:848:ILE:HG13	12:FL:59:ALA:O	2.04	0.57
3:FC:218:LYS:NZ	12:FL:69:ALA:HB3	2.18	0.57
8:FH:38:LEU:HD13	8:FH:125:LEU:HB2	1.85	0.57
1:AA:67:LEU:HD13	1:AA:71:PHE:HB3	1.86	0.57
2:AB:731:VAL:HG11	10:AJ:59:LYS:HB3	1.87	0.57
2:AB:757:TYR:CZ	2:AB:762:MET:HB3	2.40	0.57
7:AG:40:ARG:HD3	7:AG:123:TYR:HE1	1.70	0.57
8:AH:63:LEU:HB3	8:AH:89:LEU:HB3	1.86	0.57
12:BL:34:CYS:SG	12:BL:36:SER:OG	2.63	0.57
1:CA:477:ASN:OD1	2:CB:1049:THR:HG23	2.04	0.57
2:CB:59:GLY:O	2:CB:62:ASN:N	2.38	0.57
2:CB:625:GLU:HB2	2:CB:643:PHE:O	2.05	0.57
5:CE:64:PRO:HB3	5:CE:68:SER:HB2	1.87	0.57
1:DA:482:SER:HB2	2:DB:1044:PHE:HB3	1.87	0.57
1:DA:1247:SER:OG	1:DA:1249:GLU:N	2.38	0.57
2:DB:52:LEU:HD22	2:DB:61:LEU:HD21	1.86	0.57
2:DB:886:ASN:N	2:DB:902:SER:O	2.29	0.57
1:EA:759:TYR:CE1	1:EA:913:PRO:HG3	2.39	0.57
2:EB:251:HIS:HB2	2:EB:259:THR:OG1	2.04	0.57
2:EB:575:HIS:NE2	13:EM:76:TYR:OH	2.38	0.57
14:EN:109:LEU:O	14:EN:110:LEU:HD23	2.05	0.57
1:FA:211:THR:HB	5:FE:173:SER:HB2	1.87	0.57
1:FA:422:ARG:HD2	7:FO:270:LEU:O	2.05	0.57
1:FA:478:TYR:N	2:FB:1047:ARG:O	2.37	0.57
1:FA:646:GLU:CD	2:FB:1086:PHE:HB2	2.30	0.57
1:FA:1200:MET:HE1	1:FA:1569:VAL:HG12	1.87	0.57
1:FA:1454:HIS:HB2	1:FA:1457:ILE:HG13	1.86	0.57
2:FB:72:VAL:HG13	2:FB:95:LEU:O	2.05	0.57
2:FB:703:LEU:HD23	2:FB:754:ALA:HB3	1.87	0.57
9:FI:101:LEU:O	9:FI:106:GLU:HG2	2.05	0.57
13:FM:23:VAL:HG13	14:FN:108:THR:O	2.05	0.57
1:AA:976:ALA:HB1	1:AA:981:TYR:HB3	1.85	0.56
1:AA:1257:SER:HA	1:AA:1499:ARG:NH2	2.20	0.56
1:AA:1272:VAL:HG12	1:AA:1273:THR:H	1.69	0.56
2:AB:72:VAL:HG22	2:AB:96:SER:HA	1.86	0.56
2:AB:251:HIS:HB2	2:AB:259:THR:OG1	2.04	0.56
2:AB:470:LEU:HD22	2:AB:484:TYR:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:195:LYS:HB2	10:AJ:57:ILE:HD11	1.87	0.56
11:AK:60:SER:OG	11:AK:104:ARG:NH2	2.31	0.56
1:BA:484:ILE:HG23	1:BA:631:ASP:O	2.05	0.56
1:BA:699:CYS:O	1:BA:815:ARG:NH1	2.37	0.56
2:BB:178:TYR:O	2:BB:182:GLN:HG2	2.05	0.56
7:BG:45:LEU:CD1	7:BG:118:CYS:HB2	2.35	0.56
8:BH:106:GLU:HG2	8:BH:112:ILE:HD11	1.87	0.56
10:BJ:7:CYS:SG	10:BJ:8:PHE:N	2.78	0.56
11:BK:125:MET:HA	11:BK:128:CYS:SG	2.44	0.56
13:BM:40:LEU:HD12	13:BM:41:TYR:H	1.70	0.56
1:CA:537:GLN:HE21	1:CA:541:GLY:HA2	1.70	0.56
1:CA:947:LEU:HB2	1:CA:982:VAL:HG21	1.87	0.56
1:CA:1458:THR:HG21	1:CA:1475:GLU:HG2	1.87	0.56
1:CA:1512:PRO:HB3	1:CA:1517:ARG:HA	1.87	0.56
2:CB:211:ARG:NH2	2:CB:243:GLN:OE1	2.33	0.56
5:CE:19:VAL:O	5:CE:23:VAL:HG23	2.05	0.56
5:CE:87:SER:HA	5:CE:115:ASN:HB3	1.87	0.56
1:DA:987:TYR:CD2	1:DA:987:TYR:C	2.83	0.56
1:DA:1531:ASP:OD2	5:DE:11:ARG:NH1	2.38	0.56
2:DB:903:ILE:HD13	2:DB:905:TYR:CE1	2.40	0.56
5:DE:87:SER:HA	5:DE:115:ASN:HB3	1.87	0.56
1:EA:581:ILE:HD11	1:EA:605:VAL:HG21	1.87	0.56
1:EA:586:VAL:HG13	1:EA:638:PRO:HG2	1.86	0.56
1:EA:693:GLN:OE1	11:EK:88:PHE:HA	2.05	0.56
1:EA:1272:VAL:O	1:EA:1273:THR:OG1	2.22	0.56
2:EB:73:ILE:HG13	2:EB:429:ARG:NH2	2.18	0.56
2:EB:718:GLN:CD	2:EB:920:ARG:HA	2.30	0.56
2:EB:1201:GLU:HG3	2:EB:1203:LYS:H	1.70	0.56
6:EF:99:LEU:HB3	7:EG:112:PRO:HD3	1.87	0.56
1:FA:1092:GLU:O	1:FA:1094:ALA:N	2.37	0.56
2:FB:228:SER:HB2	2:FB:253:LEU:HD13	1.87	0.56
2:FB:629:VAL:HG11	2:FB:636:GLN:HG2	1.86	0.56
2:FB:934:ILE:HG21	3:FC:73:SER:HB3	1.86	0.56
7:FG:33:GLY:HA3	7:FG:230:ARG:NH1	2.20	0.56
1:AA:203:THR:OG1	1:AA:204:GLU:N	2.37	0.56
1:AA:1003:ARG:CZ	2:AB:520:LEU:HD22	2.35	0.56
1:AA:1241:PRO:HG3	1:AA:1540:GLY:HA3	1.85	0.56
6:AF:97:ARG:HG2	6:AF:130:ILE:HD13	1.87	0.56
2:BB:72:VAL:HG11	2:BB:94:LYS:HE3	1.88	0.56
2:BB:228:SER:HB2	2:BB:253:LEU:HD13	1.86	0.56
2:BB:782:ASP:HB3	2:BB:788:ILE:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:1083:GLY:HA3	6:BF:88:TYR:CE1	2.39	0.56
5:BE:152:LYS:HE3	5:BE:154:ILE:HD11	1.87	0.56
8:BH:116:TYR:HB2	8:BH:123:MET:SD	2.45	0.56
1:CA:470:HIS:O	2:CB:1058:GLN:NE2	2.39	0.56
1:CA:586:VAL:HG13	1:CA:638:PRO:HG2	1.86	0.56
1:CA:1526:PHE:O	1:CA:1529:MET:N	2.37	0.56
2:CB:18:THR:HA	2:CB:21:ARG:HH21	1.70	0.56
13:CM:39:ASP:C	13:CM:53:LEU:HD12	2.30	0.56
1:DA:1027:LEU:HD21	1:DA:1588:MET:HG2	1.86	0.56
1:DA:1117:SER:O	1:DA:1117:SER:OG	2.21	0.56
5:DE:156:LEU:HD21	5:DE:197:LYS:HB2	1.87	0.56
1:EA:1324:LEU:HD22	1:EA:1492:ILE:HG13	1.87	0.56
2:EB:311:ARG:HH22	9:EI:8:ILE:CD1	2.17	0.56
2:EB:687:THR:OG1	2:EB:688:HIS:ND1	2.37	0.56
3:EC:45:SER:OG	3:EC:271:ARG:NH2	2.29	0.56
7:EG:29:ASP:O	7:EG:31:LYS:N	2.38	0.56
9:EI:2:SER:HA	9:EI:9:PHE:O	2.05	0.56
1:FA:70:LYS:C	1:FA:71:PHE:HD1	2.13	0.56
2:FB:104:ILE:HB	2:FB:169:ARG:HG3	1.85	0.56
2:FB:939:SER:OG	2:FB:943:ILE:N	2.38	0.56
5:FE:76:GLY:H	5:FE:106:GLN:HG2	1.68	0.56
10:FJ:31:ASP:OD1	10:FJ:34:THR:HB	2.04	0.56
1:AA:7:VAL:HG12	1:AA:9:SER:H	1.71	0.56
1:AA:758:GLU:O	1:AA:760:TRP:N	2.38	0.56
1:AA:1218:GLY:O	1:AA:1222:LEU:HD22	2.05	0.56
1:AA:1270:VAL:HB	9:AI:51:THR:HG21	1.86	0.56
3:AC:325:ALA:O	3:AC:328:LEU:N	2.37	0.56
7:AG:33:GLY:HA3	7:AG:230:ARG:NH1	2.20	0.56
13:AM:40:LEU:HD12	13:AM:41:TYR:H	1.70	0.56
1:BA:875:LEU:O	1:BA:879:LEU:HG	2.04	0.56
3:BC:329:LYS:CE	11:BK:122:LYS:HE2	2.35	0.56
7:BG:72:LYS:O	7:BG:81:VAL:HG23	2.05	0.56
1:CA:491:GLU:OE1	1:CA:815:ARG:NH2	2.21	0.56
1:CA:507:TYR:HB3	1:CA:579:ARG:HH12	1.70	0.56
1:CA:699:CYS:O	1:CA:815:ARG:NH1	2.38	0.56
1:CA:1262:LEU:HD12	1:CA:1264:SER:HG	1.69	0.56
2:CB:18:THR:HA	2:CB:21:ARG:NH2	2.20	0.56
2:CB:570:VAL:HG13	2:CB:596:VAL:HG13	1.86	0.56
3:CC:77:SER:O	3:CC:210:LEU:HA	2.06	0.56
5:CE:178:ILE:HG22	5:CE:212:ARG:HB3	1.87	0.56
1:DA:550:SER:O	1:DA:553:GLN:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:830:MET:HE3	2:DB:967:LEU:HD11	1.87	0.56
1:DA:836:THR:OG1	1:DA:837:ALA:N	2.38	0.56
1:DA:1151:ASN:HB3	1:DA:1154:LEU:HD12	1.86	0.56
1:DA:1264:SER:HB3	9:DI:56:PHE:CD1	2.40	0.56
2:DB:75:ASP:OD1	2:DB:76:GLY:N	2.26	0.56
2:DB:412:ILE:O	2:DB:416:LYS:HG2	2.04	0.56
2:DB:772:VAL:HG12	2:DB:946:ASP:H	1.71	0.56
2:DB:825:PHE:HE2	2:DB:899:GLN:HA	1.70	0.56
2:DB:903:ILE:HD12	2:DB:903:ILE:N	2.20	0.56
5:DE:127:ILE:HD11	5:DE:132:ILE:HD11	1.88	0.56
9:DI:13:CYS:SG	9:DI:14:GLY:N	2.76	0.56
14:DN:97:SER:HA	14:DN:104:LEU:O	2.04	0.56
1:EA:91:PHE:CD2	1:EA:249:THR:HG22	2.39	0.56
1:EA:102:CYS:HB2	1:EA:109:ARG:HG2	1.86	0.56
1:EA:713:VAL:HB	1:EA:738:ASN:HD21	1.71	0.56
1:EA:1028:GLU:OE1	1:EA:1638:SER:HB2	2.05	0.56
1:EA:1458:THR:HG21	1:EA:1475:GLU:HG2	1.88	0.56
3:EC:233:ILE:HD11	3:EC:291:LEU:HG	1.86	0.56
4:ED:47:LYS:HD3	4:ED:82:LEU:HD13	1.86	0.56
10:EJ:54:VAL:C	10:EJ:56:LEU:H	2.12	0.56
11:EK:60:SER:OG	11:EK:104:ARG:NH2	2.36	0.56
13:EM:56:GLU:HB2	13:EM:61:GLU:HA	1.87	0.56
7:EO:290:GLU:C	7:EO:292:HIS:H	2.13	0.56
1:FA:976:ALA:HB1	1:FA:981:TYR:HB3	1.87	0.56
1:FA:1276:THR:HG23	1:FA:1288:ARG:NH1	2.17	0.56
1:FA:1447:GLN:NE2	1:FA:1459:LYS:HG2	2.20	0.56
1:FA:1557:ALA:HB2	5:FE:150:VAL:HG22	1.86	0.56
2:FB:848:ILE:HG13	12:FL:60:ARG:HA	1.86	0.56
2:FB:986:PHE:CD2	2:FB:992:PRO:HG3	2.41	0.56
3:FC:85:PHE:HA	3:FC:204:LEU:HD13	1.88	0.56
6:FF:101:ILE:HD13	6:FF:120:ILE:HG22	1.87	0.56
9:FI:2:SER:HA	9:FI:9:PHE:O	2.05	0.56
13:FM:39:ASP:C	13:FM:53:LEU:HD12	2.31	0.56
1:AA:323:ILE:O	1:AA:327:VAL:HG23	2.06	0.56
2:AB:98:SER:HA	2:AB:421:LEU:HD21	1.86	0.56
2:AB:886:ASN:O	2:AB:902:SER:N	2.28	0.56
7:AG:29:ASP:C	7:AG:31:LYS:H	2.14	0.56
1:BA:250:LYS:HD3	1:BA:428:VAL:HG22	1.87	0.56
1:BA:471:MET:HA	1:BA:474:LYS:HE3	1.86	0.56
1:BA:1298:ASP:OD1	1:BA:1298:ASP:N	2.39	0.56
2:CB:380:LYS:HG3	2:CB:637:TYR:CD2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:501:ARG:HG3	2:CB:699:ILE:HD12	1.88	0.56
3:CC:83:VAL:HG22	3:CC:206:ALA:HB1	1.88	0.56
11:CK:112:THR:N	11:CK:115:ASP:OD2	2.36	0.56
1:DA:1195:GLU:O	1:DA:1198:THR:OG1	2.24	0.56
2:DB:212:ASN:OD1	2:DB:239:VAL:HG13	2.06	0.56
7:DG:24:VAL:O	7:DG:128:GLN:NE2	2.37	0.56
11:DK:75:ALA:O	11:DK:79:VAL:HG23	2.05	0.56
2:EB:1026:ILE:HD11	2:EB:1028:VAL:HG13	1.86	0.56
14:EN:78:THR:OG1	14:EN:89:ILE:O	2.17	0.56
14:EN:90:MET:O	14:EN:137:PHE:HB3	2.05	0.56
1:FA:513:ALA:O	1:FA:516:ILE:HG22	2.06	0.56
1:FA:928:MET:HG3	1:FA:933:ALA:HB3	1.88	0.56
2:FB:311:ARG:HH22	9:FI:8:ILE:HD12	1.70	0.56
2:FB:843:ASP:HB2	2:FB:845:LEU:HD21	1.86	0.56
2:FB:960:ILE:O	2:FB:963:PHE:HB2	2.05	0.56
1:AA:511:VAL:HG22	1:AA:519:LEU:HD12	1.86	0.56
1:AA:519:LEU:O	1:AA:523:VAL:HG23	2.06	0.56
2:AB:493:PHE:HE2	2:AB:762:MET:HE1	1.70	0.56
1:BA:572:THR:HA	7:BG:52:MET:SD	2.45	0.56
1:BA:964:LYS:NZ	1:BA:967:PRO:HA	2.21	0.56
1:BA:1508:VAL:O	1:BA:1510:PRO:HD3	2.06	0.56
1:BA:1526:PHE:O	1:BA:1529:MET:N	2.39	0.56
2:BB:104:ILE:HA	2:BB:137:LEU:HD22	1.86	0.56
2:BB:1186:ASP:O	2:BB:1190:SER:OG	2.24	0.56
3:BC:90:SER:OG	3:BC:91:VAL:N	2.37	0.56
3:BC:228:ARG:NH1	14:BN:173:THR:H	2.04	0.56
9:BI:2:SER:HB2	9:BI:11:LEU:HD21	1.88	0.56
10:BJ:18:TRP:O	10:BJ:22:LEU:HG	2.06	0.56
1:CA:188:TYR:O	1:CA:191:MET:N	2.39	0.56
1:CA:189:VAL:O	1:CA:193:ILE:HG13	2.06	0.56
3:CC:70:ILE:C	3:CC:72:ILE:H	2.13	0.56
9:CI:23:VAL:HB	9:CI:39:LYS:HE3	1.88	0.56
12:CL:38:LEU:HD12	12:CL:49:LYS:HD3	1.88	0.56
1:DA:545:SER:O	1:DA:545:SER:OG	2.23	0.56
1:DA:1276:THR:O	9:DI:44:ASN:HB3	2.05	0.56
1:DA:1585:ILE:O	1:DA:1588:MET:HB3	2.04	0.56
2:DB:190:ILE:HG12	2:DB:191:GLY:N	2.20	0.56
1:EA:1298:ASP:OD1	1:EA:1298:ASP:N	2.35	0.56
2:EB:532:HIS:ND1	2:EB:700:LEU:HD13	2.21	0.56
1:FA:947:LEU:HB2	1:FA:982:VAL:HG11	1.87	0.56
1:FA:1058:THR:C	1:FA:1060:GLU:H	2.12	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:548:LYS:HA	2:FB:550:ARG:NH2	2.21	0.56
2:FB:903:ILE:HD13	2:FB:905:TYR:CE1	2.41	0.56
4:FD:47:LYS:HD3	4:FD:82:LEU:HD13	1.88	0.56
9:FI:38:PRO:HG2	9:FI:41:GLN:HB2	1.87	0.56
1:AA:440:SER:N	1:AA:458:GLN:HE22	2.04	0.56
1:AA:513:ALA:O	1:AA:516:ILE:HG22	2.05	0.56
1:AA:1324:LEU:HD22	1:AA:1492:ILE:HG13	1.87	0.56
2:AB:212:ASN:ND2	2:AB:239:VAL:HG22	2.18	0.56
4:AD:33:THR:O	4:AD:36:VAL:HB	2.05	0.56
11:AK:80:ILE:HD13	11:AK:105:ILE:HD11	1.87	0.56
2:BB:301:PHE:HD1	2:BB:302:LEU:HD23	1.69	0.56
2:BB:1138:ALA:O	2:BB:1141:LEU:HG	2.06	0.56
7:BG:139:ILE:HD12	7:BG:140:GLN:H	1.69	0.56
1:CA:693:GLN:NE2	11:CK:87:GLU:O	2.31	0.56
1:CA:785:GLN:O	1:CA:794:VAL:HG22	2.05	0.56
1:CA:1007:ILE:HG22	2:CB:515:THR:HG22	1.87	0.56
2:CB:548:LYS:HA	2:CB:550:ARG:NH2	2.20	0.56
2:CB:849:GLY:H	2:CB:882:ILE:HB	1.71	0.56
3:CC:233:ILE:HD11	3:CC:291:LEU:HG	1.87	0.56
1:DA:379:GLU:HA	7:DO:292:HIS:CD2	2.40	0.56
2:DB:392:ASP:HB3	2:DB:399:HIS:CE1	2.41	0.56
2:DB:995:TYR:CE1	14:DN:162:LYS:HG3	2.40	0.56
7:DG:26:ASN:ND2	7:DG:37:CYS:SG	2.79	0.56
13:DM:15:VAL:HA	13:DM:90:LEU:HB2	1.86	0.56
1:EA:203:THR:OG1	1:EA:204:GLU:N	2.37	0.56
2:EB:526:GLY:HA2	2:EB:696:ILE:HG22	1.86	0.56
7:EG:93:ASP:HB2	7:EG:104:LEU:HD12	1.88	0.56
13:EM:16:GLN:HG3	13:EM:17:ASP:H	1.70	0.56
13:EM:39:ASP:C	13:EM:53:LEU:HD12	2.31	0.56
13:EM:112:LYS:HG3	13:EM:113:ILE:HD12	1.88	0.56
1:FA:1085:LEU:HD13	6:FF:84:TYR:OH	2.04	0.56
2:FB:301:PHE:HD1	2:FB:302:LEU:HD23	1.71	0.56
2:FB:661:GLU:HG3	2:FB:662:ASP:N	2.20	0.56
6:FF:101:ILE:HG21	6:FF:120:ILE:HG21	1.86	0.56
2:AB:526:GLY:HA2	2:AB:696:ILE:HG22	1.87	0.56
2:AB:532:HIS:CD2	2:AB:700:LEU:HD22	2.41	0.56
2:AB:649:MET:HE3	2:AB:666:PRO:HG2	1.87	0.56
2:AB:849:GLY:H	2:AB:882:ILE:HB	1.71	0.56
13:AM:113:ILE:O	13:AM:113:ILE:HG22	2.06	0.56
1:BA:491:GLU:OE1	1:BA:815:ARG:NH2	2.20	0.56
1:BA:1146:SER:OG	1:BA:1147:PHE:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:929:ARG:NH2	11:BK:97:SER:OG	2.39	0.56
2:BB:1060:VAL:HG22	2:BB:1061:LYS:N	2.21	0.56
6:BF:147:SER:HB3	6:BF:150:GLU:HG2	1.88	0.56
13:BM:59:ARG:HD2	13:BM:60:LEU:HD21	1.88	0.56
1:CA:584:ARG:HD3	6:CF:116:ASP:HB2	1.87	0.56
1:CA:718:THR:OG1	1:CA:730:GLN:OE1	2.24	0.56
1:CA:1245:ASP:OD2	1:CA:1245:ASP:N	2.38	0.56
2:CB:401:GLU:HA	2:CB:649:MET:HE2	1.87	0.56
2:CB:782:ASP:HB3	2:CB:788:ILE:HG12	1.88	0.56
1:DA:1094:ALA:HB1	1:DA:1135:SER:HB2	1.88	0.56
2:DB:609:ARG:O	2:DB:612:LYS:HB3	2.05	0.56
14:DN:38:PHE:HE2	14:DN:40:LEU:HD13	1.69	0.56
1:EA:1216:THR:OG1	1:EA:1234:LYS:HB2	2.06	0.56
1:EA:1463:ASP:C	1:EA:1465:GLU:H	2.13	0.56
2:EB:416:LYS:HD2	2:EB:460:LYS:HD2	1.88	0.56
7:EG:57:PRO:HG2	7:EG:58:LEU:H	1.70	0.56
1:FA:697:TYR:HE1	1:FA:702:PRO:HD3	1.71	0.56
2:FB:244:THR:O	2:FB:244:THR:OG1	2.23	0.56
2:FB:683:ASN:OD1	14:FN:154:ARG:NH2	2.26	0.56
2:FB:1024:ALA:O	2:FB:1026:ILE:N	2.38	0.56
14:FN:71:PRO:HB2	14:FN:89:ILE:HD12	1.86	0.56
1:AA:1094:ALA:HB2	1:AA:1132:TYR:HB3	1.88	0.56
1:AA:1526:PHE:O	1:AA:1529:MET:N	2.38	0.56
2:AB:913:ILE:HD13	2:AB:930:LYS:HG3	1.87	0.56
8:AH:106:GLU:HG2	8:AH:112:ILE:HD11	1.87	0.56
1:BA:1019:LEU:HD21	1:BA:1194:GLY:CA	2.35	0.56
1:BA:1027:LEU:HD21	1:BA:1588:MET:HG2	1.87	0.56
2:BB:94:LYS:O	2:BB:146:ASN:N	2.19	0.56
5:BE:157:SER:OG	5:BE:160:GLU:HG3	2.06	0.56
1:CA:720:PHE:CZ	8:CH:141:TYR:HE2	2.24	0.56
1:CA:896:THR:O	1:CA:900:VAL:HG13	2.06	0.56
2:CB:542:LEU:C	2:CB:543:ASN:HD22	2.14	0.56
2:CB:693:PRO:O	2:CB:696:ILE:HG13	2.06	0.56
3:CC:128:ASP:C	3:CC:130:ASN:H	2.14	0.56
13:CM:59:ARG:HD2	13:CM:60:LEU:HD21	1.87	0.56
1:DA:830:MET:HE1	2:DB:963:PHE:HB3	1.88	0.56
2:DB:887:LEU:O	2:DB:888:ILE:HD12	2.06	0.56
1:EA:697:TYR:HE1	1:EA:702:PRO:HD3	1.70	0.56
2:EB:1186:ASP:O	2:EB:1190:SER:OG	2.24	0.56
7:EG:88:LYS:O	7:EG:118:CYS:HB3	2.05	0.56
8:EH:38:LEU:HD12	8:EH:124:ARG:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:567:SER:HB2	14:FN:59:PRO:HB3	1.88	0.56
3:FC:289:VAL:HG12	3:FC:290:LYS:H	1.71	0.56
3:FC:325:ALA:O	3:FC:328:LEU:N	2.37	0.56
12:FL:30:ILE:O	12:FL:57:LEU:HD12	2.06	0.56
13:FM:80:LEU:HD13	14:FN:39:PRO:HG2	1.87	0.56
13:FM:81:PHE:HB2	13:FM:88:ILE:HD13	1.86	0.56
1:AA:624:TYR:O	1:AA:625:ASN:HB3	2.05	0.56
1:AA:1601:GLN:O	1:AA:1603:MET:N	2.33	0.56
3:AC:83:VAL:HG12	3:AC:204:LEU:HD12	1.88	0.56
3:AC:303:GLU:OE1	10:AJ:43:ARG:NH2	2.39	0.56
10:AJ:2:ILE:HD12	10:AJ:57:ILE:HD13	1.87	0.56
1:BA:1175:MET:O	1:BA:1178:LEU:HG	2.06	0.56
1:CA:426:ALA:HA	7:CO:273:VAL:HG21	1.86	0.56
1:CA:472:MET:SD	1:CA:1025:LYS:NZ	2.61	0.56
7:CG:26:ASN:ND2	7:CG:37:CYS:SG	2.79	0.56
9:CI:23:VAL:HG21	9:CI:28:VAL:HG13	1.88	0.56
11:CK:49:LEU:HD12	11:CK:62:SER:O	2.06	0.56
13:CM:112:LYS:HG3	13:CM:113:ILE:HD12	1.88	0.56
1:DA:475:ARG:NH1	2:DB:1068:GLY:O	2.39	0.56
1:DA:1271:ILE:HG23	9:DI:50:THR:HG22	1.87	0.56
1:DA:1335:LYS:HD2	1:DA:1338:ARG:NH2	2.21	0.56
1:DA:1620:GLN:O	1:DA:1623:THR:N	2.38	0.56
2:DB:380:LYS:HE3	2:DB:637:TYR:HB3	1.87	0.56
2:DB:846:PRO:HG3	2:DB:858:ILE:O	2.06	0.56
9:DI:73:LYS:HA	9:DI:76:LEU:HD12	1.87	0.56
14:DN:69:SER:CB	8:FH:75:ALA:HB2	2.35	0.56
1:EA:1585:ILE:O	1:EA:1589:MET:HG3	2.06	0.56
2:EB:59:GLY:O	2:EB:62:ASN:N	2.39	0.56
2:EB:70:GLU:HG2	2:EB:97:VAL:C	2.31	0.56
10:EJ:43:ARG:NH1	10:EJ:46:CYS:SG	2.79	0.56
7:EO:297:LEU:HD22	7:EO:297:LEU:H	1.71	0.56
1:FA:591:ARG:HB2	1:FA:633:MET:HG2	1.88	0.56
1:FA:885:ASP:O	1:FA:889:SER:HB3	2.06	0.56
1:FA:960:MET:O	1:FA:963:GLY:N	2.35	0.56
2:FB:98:SER:HA	2:FB:421:LEU:HD21	1.87	0.56
14:FN:107:MET:N	14:FN:107:MET:SD	2.78	0.56
7:FO:297:LEU:HD13	7:FO:310:TYR:HD2	1.69	0.56
2:AB:850:THR:N	2:AB:882:ILE:HG13	2.18	0.56
1:BA:93:GLN:HB2	1:BA:355:PHE:HE2	1.71	0.56
8:BH:35:GLN:O	8:BH:127:GLY:HA2	2.05	0.56
9:BI:10:CYS:HB3	9:BI:13:CYS:SG	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:12:ILE:CG2	14:BN:68:LYS:HA	2.36	0.56
7:BO:273:VAL:O	7:BO:277:LYS:HB2	2.05	0.56
2:CB:851:TYR:HD1	2:CB:881:TYR:CE1	2.24	0.56
1:DA:1545:ASP:CG	1:DA:1546:VAL:H	2.14	0.56
2:DB:501:ARG:HG3	2:DB:699:ILE:HD12	1.87	0.56
2:DB:774:ALA:HB3	2:DB:948:ILE:HA	1.88	0.56
11:DK:86:VAL:HG13	11:DK:105:ILE:HG23	1.87	0.56
1:EA:875:LEU:O	1:EA:879:LEU:HG	2.06	0.56
10:EJ:43:ARG:O	10:EJ:47:ARG:HG3	2.06	0.56
1:FA:456:VAL:HG11	2:FB:1192:MET:SD	2.46	0.56
2:FB:501:ARG:NH2	2:FB:546:ALA:O	2.39	0.56
2:FB:683:ASN:HA	14:FN:150:TYR:CE1	2.41	0.56
2:FB:1026:ILE:HD11	2:FB:1028:VAL:HG13	1.87	0.56
3:FC:83:VAL:N	12:FL:67:PHE:O	2.30	0.56
2:AB:693:PRO:HB2	2:AB:984:TRP:CZ3	2.41	0.55
3:AC:147:PRO:O	3:AC:149:GLY:N	2.39	0.55
5:AE:137:GLU:O	5:AE:139:ALA:N	2.39	0.55
2:BB:59:GLY:O	2:BB:62:ASN:N	2.39	0.55
2:BB:251:HIS:HB2	2:BB:259:THR:OG1	2.06	0.55
2:BB:493:PHE:HE2	2:BB:762:MET:HE1	1.71	0.55
14:BN:72:VAL:HG22	14:BN:137:PHE:HE1	1.71	0.55
1:CA:473:GLY:HA2	2:CB:1071:VAL:O	2.06	0.55
1:CA:475:ARG:HB3	1:CA:475:ARG:HH11	1.71	0.55
1:CA:753:ASN:ND2	1:CA:767:ASN:O	2.40	0.55
1:CA:1146:SER:OG	1:CA:1147:PHE:N	2.36	0.55
1:CA:1617:THR:CB	1:CA:1620:GLN:HG2	2.35	0.55
2:CB:170:CYS:SG	2:CB:171:HIS:N	2.79	0.55
9:CI:10:CYS:HB3	9:CI:13:CYS:SG	2.46	0.55
1:DA:399:LEU:HD13	7:DO:271:PRO:HG2	1.89	0.55
1:DA:471:MET:HA	1:DA:474:LYS:HE3	1.87	0.55
1:DA:641:GLU:HB2	6:DF:99:LEU:HD22	1.88	0.55
2:DB:262:PHE:CZ	2:DB:269:TYR:HB2	2.41	0.55
2:DB:380:LYS:HG3	2:DB:637:TYR:CD2	2.41	0.55
2:DB:851:TYR:HD1	2:DB:881:TYR:CE1	2.24	0.55
3:DC:328:LEU:HB3	11:DK:121:LEU:HD11	1.87	0.55
10:DJ:2:ILE:HD12	10:DJ:57:ILE:HD13	1.86	0.55
1:EA:812:VAL:HG12	1:EA:813:LEU:HD23	1.89	0.55
1:EA:1294:MET:N	1:EA:1294:MET:SD	2.80	0.55
2:EB:493:PHE:HE2	2:EB:762:MET:HE1	1.71	0.55
2:EB:628:TYR:HD1	2:EB:640:LEU:HD13	1.70	0.55
2:EB:916:LYS:HE3	2:EB:1040:VAL:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:100:ARG:HH12	3:EC:193:LEU:CA	2.19	0.55
6:EF:101:ILE:HG21	6:EF:120:ILE:HG21	1.86	0.55
14:EN:55:LEU:HB3	14:EN:136:VAL:HG22	1.89	0.55
14:EN:92:ASP:O	14:EN:93:THR:OG1	2.21	0.55
1:FA:1022:CYS:HA	1:FA:1615:TYR:OH	2.06	0.55
1:FA:1216:THR:HG23	1:FA:1234:LYS:HD2	1.87	0.55
2:FB:178:TYR:O	2:FB:182:GLN:HG2	2.06	0.55
2:FB:383:SER:OG	2:FB:384:LEU:N	2.39	0.55
3:FC:101:ILE:HA	3:FC:104:VAL:HG23	1.89	0.55
1:AA:1617:THR:CB	1:AA:1620:GLN:HG2	2.36	0.55
2:AB:887:LEU:O	2:AB:887:LEU:HD22	2.07	0.55
5:AE:98:ILE:O	5:AE:102:GLU:HB2	2.06	0.55
14:AN:149:ASP:O	14:AN:153:VAL:HG12	2.06	0.55
1:BA:203:THR:OG1	1:BA:204:GLU:N	2.39	0.55
1:BA:756:LYS:HG2	9:BI:85:LYS:CE	2.36	0.55
1:BA:850:SER:OG	1:BA:851:VAL:N	2.37	0.55
1:BA:1136:VAL:HG22	1:BA:1174:TYR:CE1	2.41	0.55
2:BB:19:LEU:N	2:BB:19:LEU:HD23	2.21	0.55
2:BB:975:HIS:NE2	2:BB:1003:ALA:HB2	2.22	0.55
3:BC:83:VAL:HG12	3:BC:204:LEU:HD12	1.88	0.55
3:BC:100:ARG:HH12	3:BC:193:LEU:HA	1.71	0.55
14:BN:148:ILE:HD13	14:BN:150:TYR:OH	2.06	0.55
1:CA:976:ALA:HB1	1:CA:981:TYR:HB3	1.88	0.55
1:CA:1463:ASP:O	1:CA:1465:GLU:N	2.33	0.55
2:CB:73:ILE:HG13	2:CB:429:ARG:NH2	2.21	0.55
2:CB:274:VAL:HA	2:CB:277:LEU:HD12	1.88	0.55
2:CB:474:SER:C	2:CB:476:LEU:H	2.13	0.55
2:CB:903:ILE:HD13	2:CB:905:TYR:CE1	2.40	0.55
2:CB:983:PRO:HB2	2:CB:984:TRP:CE3	2.42	0.55
1:DA:20:THR:HG23	1:DA:23:GLU:HG3	1.89	0.55
1:DA:699:CYS:O	1:DA:815:ARG:NH1	2.40	0.55
1:DA:1292:ILE:CD1	1:DA:1473:LYS:H	2.17	0.55
1:DA:1454:HIS:HB2	1:DA:1457:ILE:HG13	1.88	0.55
1:DA:1559:ARG:O	1:DA:1563:VAL:HG23	2.06	0.55
2:DB:693:PRO:O	2:DB:696:ILE:HG13	2.06	0.55
7:DG:57:PRO:HG2	7:DG:58:LEU:H	1.72	0.55
1:EA:908:VAL:HG11	9:EI:82:ILE:HG13	1.88	0.55
1:EA:1028:GLU:CD	1:EA:1637:PRO:HB2	2.32	0.55
2:EB:408:LEU:HA	2:EB:411:MET:HG3	1.87	0.55
2:EB:644:GLY:HA2	2:EB:648:ARG:CZ	2.36	0.55
1:FA:615:ARG:NH2	2:FB:928:SER:OG	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1146:SER:OG	1:FA:1147:PHE:N	2.38	0.55
2:FB:311:ARG:HH22	9:FI:8:ILE:CD1	2.19	0.55
2:FB:1046:VAL:HG22	2:FB:1047:ARG:H	1.71	0.55
3:AC:59:ILE:HD11	3:AC:63:ILE:HB	1.88	0.55
7:AG:89:ILE:HA	7:AG:118:CYS:SG	2.46	0.55
1:BA:339:PHE:O	1:BA:1629:ASN:HB2	2.06	0.55
1:BA:850:SER:O	1:BA:852:ASP:N	2.39	0.55
1:BA:960:MET:HE1	1:BA:967:PRO:HD3	1.87	0.55
1:BA:1257:SER:HA	1:BA:1499:ARG:NH2	2.21	0.55
1:BA:1264:SER:HG	1:BA:1494:ARG:HA	1.71	0.55
2:BB:66:LYS:C	2:BB:68:ILE:H	2.13	0.55
2:BB:584:CYS:HB2	2:BB:598:HIS:ND1	2.22	0.55
2:BB:917:PHE:HD2	2:BB:1035:ARG:HA	1.72	0.55
3:BC:137:ASN:CG	3:BC:203:SER:HB2	2.32	0.55
7:BO:283:GLU:O	7:BO:286:ILE:HB	2.06	0.55
1:CA:803:PRO:O	1:CA:806:ALA:HB3	2.05	0.55
1:CA:1217:LEU:HD13	1:CA:1573:TYR:CE1	2.40	0.55
6:CF:147:SER:HB3	6:CF:150:GLU:HG2	1.87	0.55
1:DA:470:HIS:O	2:DB:1058:GLN:NE2	2.38	0.55
1:DA:1108:HIS:CG	1:DA:1117:SER:HB3	2.41	0.55
1:DA:1487:ASN:O	1:DA:1490:GLU:N	2.39	0.55
2:DB:526:GLY:HA2	2:DB:696:ILE:HG22	1.89	0.55
3:DC:289:VAL:HG12	3:DC:290:LYS:H	1.71	0.55
1:EA:509:GLU:OE1	1:EA:579:ARG:NH2	2.37	0.55
1:EA:615:ARG:NH2	2:EB:928:SER:OG	2.39	0.55
1:EA:618:TYR:HB3	1:EA:670:ILE:CD1	2.36	0.55
2:EB:250:LEU:HD11	2:EB:378:ILE:HD13	1.88	0.55
2:EB:501:ARG:HG3	2:EB:699:ILE:HD12	1.88	0.55
1:FA:937:ASN:O	1:FA:940:VAL:HB	2.06	0.55
2:FB:970:LYS:NZ	2:FB:1011:GLU:OE2	2.24	0.55
6:FF:128:LYS:NZ	6:FF:148:VAL:O	2.38	0.55
1:AA:560:GLN:O	1:AA:575:LYS:NZ	2.28	0.55
1:AA:928:MET:HG3	1:AA:933:ALA:HB3	1.88	0.55
1:AA:1292:ILE:O	1:AA:1292:ILE:HD12	2.05	0.55
2:AB:408:LEU:HA	2:AB:411:MET:HG3	1.88	0.55
2:AB:584:CYS:HB2	2:AB:598:HIS:ND1	2.22	0.55
2:AB:609:ARG:O	2:AB:612:LYS:HB3	2.06	0.55
2:AB:1024:ALA:O	2:AB:1026:ILE:N	2.39	0.55
4:AD:32:SER:N	4:AD:35:GLU:OE2	2.40	0.55
5:AE:177:ARG:HD3	5:AE:215:MET:HB2	1.89	0.55
6:AF:92:ARG:O	6:AF:96:THR:OG1	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:72:LYS:O	7:AG:81:VAL:HG23	2.07	0.55
10:AJ:54:VAL:C	10:AJ:56:LEU:H	2.14	0.55
1:BA:96:ILE:HG23	1:BA:228:LEU:HD21	1.88	0.55
1:BA:785:GLN:O	1:BA:794:VAL:HG22	2.06	0.55
1:BA:896:THR:O	1:BA:900:VAL:HG13	2.07	0.55
6:BF:92:ARG:O	6:BF:96:THR:OG1	2.21	0.55
2:CB:97:VAL:HG13	2:CB:141:LEU:HD11	1.89	0.55
2:CB:558:VAL:HA	2:CB:561:ILE:HG13	1.88	0.55
2:CB:956:SER:O	9:CI:107:GLY:HA2	2.05	0.55
14:CN:105:SER:OG	14:CN:132:GLN:NE2	2.39	0.55
1:DA:1092:GLU:O	1:DA:1094:ALA:N	2.39	0.55
1:DA:1342:PRO:HG2	2:DB:259:THR:HG22	1.88	0.55
2:DB:887:LEU:HB3	2:DB:901:VAL:HG13	1.88	0.55
1:EA:483:VAL:HG21	2:EB:1042:ASP:HA	1.87	0.55
1:EA:1241:PRO:HG3	1:EA:1540:GLY:HA3	1.87	0.55
2:EB:210:ARG:NH2	2:EB:625:GLU:OE2	2.39	0.55
2:EB:554:GLN:HA	2:EB:646:HIS:CD2	2.41	0.55
2:EB:662:ASP:OD1	2:EB:663:ILE:N	2.39	0.55
2:EB:773:VAL:HG21	2:EB:1031:VAL:HB	1.88	0.55
7:EO:280:PHE:O	7:EO:283:GLU:HG3	2.06	0.55
1:FA:1241:PRO:HG3	1:FA:1540:GLY:HA3	1.87	0.55
2:FB:138:LEU:O	2:FB:139:LEU:HD23	2.06	0.55
2:AB:250:LEU:HD11	2:AB:378:ILE:HD13	1.87	0.55
2:AB:776:ILE:HB	2:AB:1026:ILE:HD13	1.88	0.55
3:AC:163:TYR:N	3:AC:166:ASP:OD2	2.39	0.55
5:AE:40:GLU:HA	5:AE:43:LYS:HE3	1.87	0.55
1:BA:7:VAL:HG11	2:BB:1175:THR:O	2.06	0.55
1:BA:456:VAL:HG11	2:BB:1192:MET:SD	2.47	0.55
1:BA:758:GLU:O	1:BA:760:TRP:N	2.39	0.55
1:BA:1335:LYS:HD2	1:BA:1338:ARG:HH21	1.72	0.55
1:CA:470:HIS:NE2	7:CO:314:THR:O	2.39	0.55
1:CA:697:TYR:HE1	1:CA:702:PRO:CD	2.20	0.55
1:CA:985:ARG:HD2	1:CA:987:TYR:HB3	1.88	0.55
2:CB:562:PRO:HG3	2:CB:588:ILE:HD13	1.89	0.55
2:CB:888:ILE:HG13	12:CL:54:ARG:O	2.06	0.55
3:CC:84:TYR:HB3	12:CL:64:LEU:HD11	1.88	0.55
5:CE:48:ASP:O	5:CE:50:MET:N	2.38	0.55
1:DA:1298:ASP:OD1	1:DA:1298:ASP:N	2.39	0.55
2:DB:744:LEU:HD11	2:DB:799:GLY:HA2	1.89	0.55
2:DB:773:VAL:HG21	2:DB:1031:VAL:HB	1.89	0.55
10:DJ:43:ARG:NH1	10:DJ:46:CYS:SG	2.79	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:808:LYS:O	1:EA:809:VAL:C	2.49	0.55
1:EA:831:ASP:OD1	1:EA:831:ASP:N	2.31	0.55
1:EA:1263:LEU:O	1:EA:1265:GLU:N	2.39	0.55
1:EA:1556:GLU:O	1:EA:1559:ARG:HB3	2.05	0.55
2:EB:542:LEU:C	2:EB:543:ASN:HD22	2.15	0.55
3:EC:128:ASP:C	3:EC:130:ASN:H	2.15	0.55
7:EO:290:GLU:O	7:EO:293:LYS:N	2.30	0.55
1:FA:315:ILE:HG13	1:FA:319:GLU:HB2	1.88	0.55
2:FB:290:ASP:O	2:FB:292:ILE:N	2.40	0.55
3:FC:172:GLN:HB2	3:FC:175:GLN:NE2	2.21	0.55
4:FD:82:LEU:HD22	7:FG:67:ASN:ND2	2.21	0.55
5:FE:147:HIS:HB3	5:FE:150:VAL:HG23	1.86	0.55
12:FL:32:ALA:HB3	12:FL:55:ILE:HG13	1.89	0.55
1:AA:480:ALA:HB2	2:AB:1046:VAL:HG23	1.87	0.55
2:AB:1002:LYS:HZ3	14:AN:166:LEU:HD13	1.70	0.55
9:AI:2:SER:HB2	9:AI:11:LEU:HD21	1.88	0.55
1:BA:974:THR:O	1:BA:974:THR:OG1	2.18	0.55
1:BA:1148:LEU:HD11	1:BA:1167:ARG:HB2	1.89	0.55
2:BB:675:ALA:HB2	2:BB:686:HIS:CG	2.41	0.55
2:BB:903:ILE:HD13	2:BB:905:TYR:CE1	2.41	0.55
5:BE:7:ARG:O	5:BE:11:ARG:HG3	2.07	0.55
10:BJ:36:LEU:HD11	10:BJ:51:LEU:HB2	1.89	0.55
1:CA:709:ARG:C	1:CA:711:LYS:H	2.12	0.55
2:CB:656:LEU:HG	2:CB:687:THR:O	2.07	0.55
3:CC:86:PHE:HE2	3:CC:205:LYS:HE3	1.71	0.55
3:CC:289:VAL:HG12	3:CC:290:LYS:H	1.72	0.55
1:DA:1553:TYR:CD1	5:DE:144:ILE:HB	2.39	0.55
1:DA:1656:VAL:HG23	7:DG:107:ILE:HB	1.87	0.55
2:DB:983:PRO:HB2	2:DB:984:TRP:CE3	2.42	0.55
2:DB:1047:ARG:NH2	2:DB:1059:PRO:HB3	2.21	0.55
4:DD:36:VAL:HG21	7:DG:38:ILE:HD13	1.89	0.55
11:DK:53:ALA:HB1	11:DK:104:ARG:HH12	1.72	0.55
11:DK:60:SER:HG	11:DK:104:ARG:HH21	1.51	0.55
11:DK:83:ASN:HB3	11:DK:86:VAL:HG23	1.87	0.55
1:EA:93:GLN:HB2	1:EA:355:PHE:HE2	1.70	0.55
1:EA:315:ILE:HG13	1:EA:319:GLU:HB2	1.87	0.55
1:EA:1617:THR:CB	1:EA:1620:GLN:HG2	2.37	0.55
2:EB:757:TYR:CZ	2:EB:762:MET:HB3	2.41	0.55
3:EC:84:TYR:HB3	12:EL:64:LEU:HD11	1.88	0.55
6:EF:65:ARG:HB3	6:EF:65:ARG:NH1	2.22	0.55
6:EF:92:ARG:O	6:EF:96:THR:OG1	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:47:GLY:HA2	2:FB:50:ASN:HD22	1.72	0.55
2:FB:1047:ARG:NH1	2:FB:1050:GLY:H	2.05	0.55
3:FC:222:VAL:C	3:FC:224:THR:H	2.14	0.55
14:FN:37:ASN:HD22	14:FN:38:PHE:H	1.55	0.55
1:AA:795:HIS:O	1:AA:798:HIS:HB3	2.07	0.55
1:AA:1031:HIS:HB2	1:AA:1182:GLY:O	2.06	0.55
1:AA:1136:VAL:HG22	1:AA:1174:TYR:CD1	2.42	0.55
1:AA:1470:CYS:SG	1:AA:1471:GLU:N	2.80	0.55
2:AB:164:MET:O	2:AB:167:SER:OG	2.25	0.55
2:AB:898:LEU:N	12:AL:46:VAL:HG21	2.22	0.55
14:AN:55:LEU:HD12	14:AN:56:ILE:H	1.72	0.55
1:BA:697:TYR:HE1	1:BA:702:PRO:HD3	1.71	0.55
1:BA:1094:ALA:HB2	1:BA:1132:TYR:HB3	1.87	0.55
1:BA:1638:SER:HA	1:BA:1641:ILE:HD12	1.88	0.55
2:BB:383:SER:OG	2:BB:384:LEU:N	2.39	0.55
2:BB:693:PRO:HB2	2:BB:984:TRP:CZ3	2.41	0.55
2:BB:845:LEU:HD12	12:BL:58:LYS:HD2	1.89	0.55
2:BB:967:LEU:HD12	2:BB:967:LEU:H	1.71	0.55
10:BJ:54:VAL:C	10:BJ:56:LEU:H	2.13	0.55
14:BN:97:SER:HB3	14:BN:105:SER:HB3	1.89	0.55
1:CA:1545:ASP:CG	1:CA:1546:VAL:N	2.65	0.55
1:DA:203:THR:OG1	1:DA:204:GLU:N	2.39	0.55
1:DA:697:TYR:HE1	1:DA:702:PRO:CD	2.20	0.55
1:DA:966:LEU:HD11	1:DA:968:SER:HB3	1.88	0.55
2:DB:504:HIS:HB3	2:DB:542:LEU:HD23	1.89	0.55
2:DB:575:HIS:NE2	13:DM:76:TYR:OH	2.38	0.55
5:DE:98:ILE:O	5:DE:102:GLU:HB2	2.05	0.55
2:EB:1073:GLU:H	2:EB:1073:GLU:CD	2.15	0.55
1:FA:835:LEU:HD22	1:FA:915:GLY:O	2.07	0.55
2:FB:403:LEU:HD11	2:FB:408:LEU:HB2	1.87	0.55
4:FD:89:LEU:O	4:FD:92:ILE:N	2.35	0.55
1:AA:406:LEU:HB3	7:AO:266:GLN:CB	2.37	0.55
1:AA:1151:ASN:HB3	1:AA:1154:LEU:HD12	1.88	0.55
3:AC:128:ASP:C	3:AC:130:ASN:H	2.15	0.55
5:AE:28:TYR:CE1	5:AE:78:LEU:HB3	2.42	0.55
9:AI:122:ARG:HG3	9:AI:122:ARG:O	2.07	0.55
11:AK:54:THR:HG22	11:AK:61:ALA:CA	2.36	0.55
13:AM:42:LYS:O	14:AN:29:PHE:HA	2.07	0.55
1:BA:589:MET:SD	1:BA:635:MET:HE3	2.47	0.55
1:BA:1241:PRO:HG3	1:BA:1540:GLY:CA	2.37	0.55
2:BB:294:GLY:O	13:BM:28:LYS:NZ	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:913:ILE:HD13	2:BB:930:LYS:HG3	1.89	0.55
3:BC:65:ASN:OD1	3:BC:68:ARG:NH1	2.40	0.55
3:BC:86:PHE:HE2	3:BC:205:LYS:HE3	1.72	0.55
3:BC:197:ARG:HG2	10:BJ:61:LEU:HD22	1.89	0.55
7:BG:24:VAL:O	7:BG:128:GLN:NE2	2.40	0.55
1:CA:1262:LEU:HD12	1:CA:1264:SER:OG	2.07	0.55
2:CB:295:ASN:HB3	14:CN:104:LEU:HD13	1.88	0.55
2:CB:533:THR:OG1	2:CB:534:PRO:HD2	2.06	0.55
2:CB:644:GLY:HA2	2:CB:648:ARG:CZ	2.37	0.55
2:CB:775:VAL:H	2:CB:1028:VAL:HG12	1.71	0.55
2:CB:1047:ARG:NH1	2:CB:1050:GLY:H	2.05	0.55
3:CC:100:ARG:HH12	3:CC:193:LEU:HA	1.71	0.55
1:DA:1136:VAL:HG22	1:DA:1174:TYR:CD1	2.42	0.55
1:DA:1335:LYS:HD2	1:DA:1338:ARG:HH21	1.72	0.55
1:DA:1555:VAL:CG1	5:DE:178:ILE:HD13	2.37	0.55
7:DG:86:GLY:O	7:DG:120:VAL:HG23	2.06	0.55
8:DH:97:MET:HB3	8:DH:118:PHE:CD1	2.42	0.55
2:EB:47:GLY:HA2	2:EB:50:ASN:HD22	1.72	0.55
2:EB:987:ASN:O	2:EB:989:ASP:N	2.40	0.55
3:EC:86:PHE:HE2	3:EC:205:LYS:HE3	1.72	0.55
7:EO:283:GLU:HA	7:EO:286:ILE:HD12	1.89	0.55
1:FA:416:ARG:O	1:FA:419:ILE:HB	2.06	0.55
1:FA:809:VAL:HG13	1:FA:813:LEU:HD11	1.88	0.55
2:FB:38:LEU:HD21	2:FB:760:TYR:O	2.06	0.55
2:FB:604:ILE:O	2:FB:608:LEU:HG	2.07	0.55
2:FB:773:VAL:HG21	2:FB:1031:VAL:HB	1.87	0.55
2:FB:776:ILE:HD12	2:FB:777:SER:H	1.72	0.55
8:FH:101:ALA:HB2	8:FH:116:TYR:HE1	1.72	0.55
1:AA:611:GLU:CD	1:AA:615:ARG:HD2	2.31	0.55
1:AA:835:LEU:HD22	1:AA:915:GLY:O	2.07	0.55
1:AA:1458:THR:HG21	1:AA:1475:GLU:HG2	1.89	0.55
2:AB:1151:ILE:HG22	2:AB:1152:PHE:H	1.72	0.55
13:AM:81:PHE:HD1	13:AM:88:ILE:HB	1.71	0.55
1:BA:1007:ILE:HG22	2:BB:515:THR:HG22	1.89	0.55
1:BA:1139:ASN:HB2	5:BE:205:SER:HA	1.89	0.55
2:BB:35:PHE:HB3	2:BB:38:LEU:HD23	1.88	0.55
2:BB:97:VAL:HG13	2:BB:141:LEU:HD11	1.89	0.55
2:BB:851:TYR:HD1	2:BB:881:TYR:CE1	2.25	0.55
3:BC:85:PHE:CG	3:BC:204:LEU:HD13	2.42	0.55
5:BE:19:VAL:O	5:BE:23:VAL:HG23	2.07	0.55
1:CA:808:LYS:O	1:CA:809:VAL:C	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:96:SER:OG	2:CB:144:SER:O	2.21	0.55
2:CB:609:ARG:O	2:CB:612:LYS:HB3	2.07	0.55
2:CB:790:ASN:OD1	2:CB:792:SER:N	2.40	0.55
3:CC:37:LYS:HD2	11:CK:130:VAL:HG22	1.88	0.55
4:CD:33:THR:O	4:CD:36:VAL:HB	2.07	0.55
7:CG:45:LEU:CD1	7:CG:118:CYS:HB2	2.36	0.55
7:CG:229:LEU:HD12	7:CG:230:ARG:H	1.71	0.55
10:CJ:6:ARG:HB3	10:CJ:11:GLY:O	2.07	0.55
1:DA:850:SER:OG	1:DA:851:VAL:N	2.33	0.55
2:DB:885:VAL:HG11	12:DL:58:LYS:HB3	1.89	0.55
2:DB:987:ASN:O	2:DB:989:ASP:N	2.40	0.55
3:DC:42:VAL:HG22	3:DC:56:LEU:HD22	1.87	0.55
3:DC:66:ALA:O	3:DC:70:ILE:HG13	2.07	0.55
9:DI:13:CYS:HB3	9:DI:33:CYS:HB3	1.88	0.55
1:EA:1235:THR:O	1:EA:1544:ASN:ND2	2.40	0.55
2:EB:1186:ASP:OD2	2:EB:1198:TYR:OH	2.16	0.55
1:FA:371:SER:HB3	7:FO:311:GLU:HA	1.89	0.55
1:FA:484:ILE:HG23	1:FA:631:ASP:O	2.06	0.55
1:FA:1647:ASN:HD22	1:FA:1648:ASN:N	2.04	0.55
2:FB:140:LYS:HE2	2:FB:153:PHE:HD2	1.72	0.55
2:FB:397:THR:HA	2:FB:400:GLN:OE1	2.07	0.55
2:AB:383:SER:OG	2:AB:384:LEU:N	2.39	0.55
2:AB:644:GLY:HA2	2:AB:648:ARG:CZ	2.37	0.55
5:AE:137:GLU:C	5:AE:139:ALA:H	2.15	0.55
7:AG:67:ASN:O	7:AG:70:VAL:HG23	2.07	0.55
1:BA:52:LEU:C	1:BA:54:LEU:H	2.15	0.55
1:BA:127:TYR:CE2	1:BA:193:ILE:HD13	2.41	0.55
1:BA:843:ARG:NE	1:BA:945:CYS:O	2.38	0.55
2:BB:74:PHE:HB2	2:BB:91:LEU:O	2.07	0.55
7:BG:33:GLY:HA3	7:BG:230:ARG:NH1	2.22	0.55
8:BH:97:MET:HB3	8:BH:118:PHE:CD1	2.42	0.55
10:BJ:69:ARG:HD3	12:BL:33:GLU:O	2.07	0.55
11:BK:49:LEU:HD11	11:BK:54:THR:HG21	1.89	0.55
1:CA:519:LEU:O	1:CA:523:VAL:HG23	2.07	0.55
1:CA:914:ASP:O	1:CA:919:LYS:NZ	2.31	0.55
1:CA:1040:ASP:CG	1:CA:1041:ALA:H	2.15	0.55
1:CA:1217:LEU:HD11	1:CA:1572:ARG:HD2	1.87	0.55
1:CA:1241:PRO:HG3	1:CA:1540:GLY:HA3	1.89	0.55
1:DA:718:THR:OG1	1:DA:730:GLN:OE1	2.24	0.55
1:DA:1170:MET:HA	1:DA:1173:LYS:HB3	1.89	0.55
1:DA:1322:ILE:O	1:DA:1325:LEU:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:679:GLN:NE2	14:DN:155:VAL:O	2.38	0.55
2:DB:909:ARG:O	2:DB:1035:ARG:NH2	2.38	0.55
2:EB:848:ILE:HG13	12:EL:60:ARG:HA	1.88	0.55
5:EE:147:HIS:HB3	5:EE:150:VAL:HG23	1.88	0.55
5:EE:198:ILE:HD12	5:EE:210:SER:OG	2.07	0.55
14:EN:75:GLU:H	14:EN:91:ASP:CB	2.19	0.55
1:FA:19:LEU:HB3	1:FA:24:ILE:HD11	1.89	0.55
1:FA:487:ASP:OD1	2:FB:781:TYR:OH	2.19	0.55
1:FA:721:LYS:H	8:FH:96:VAL:HB	1.72	0.55
1:FA:809:VAL:HG12	1:FA:810:LEU:N	2.21	0.55
1:FA:832:ASP:OD2	1:FA:924:SER:OG	2.25	0.55
1:FA:1254:PHE:CE2	1:FA:1258:ILE:HD13	2.42	0.55
2:FB:99:VAL:HG11	2:FB:139:LEU:HD13	1.88	0.55
2:FB:555:GLN:NE2	2:FB:644:GLY:O	2.40	0.55
7:FG:250:ILE:HG22	7:FG:251:SER:H	1.72	0.55
3:AC:70:ILE:O	3:AC:72:ILE:N	2.40	0.54
3:AC:70:ILE:C	3:AC:72:ILE:H	2.16	0.54
6:AF:102:SER:HB3	6:AF:117:PRO:HB3	1.88	0.54
1:BA:669:LEU:H	1:BA:787:GLY:HA2	1.71	0.54
1:BA:729:LYS:HD2	8:BH:120:GLY:CA	2.37	0.54
2:BB:73:ILE:HG13	2:BB:429:ARG:NH2	2.22	0.54
4:BD:22:ILE:HG23	7:BG:44:ALA:O	2.07	0.54
2:CB:290:ASP:O	2:CB:292:ILE:N	2.40	0.54
2:CB:649:MET:HE3	2:CB:666:PRO:HG2	1.89	0.54
2:CB:940:GLU:HB2	2:CB:1012:PRO:HB2	1.89	0.54
3:CC:150:SER:OG	3:CC:155:GLU:OE2	2.19	0.54
9:CI:2:SER:HA	9:CI:9:PHE:O	2.06	0.54
1:DA:505:LEU:O	1:DA:581:ILE:HG22	2.07	0.54
1:DA:522:ALA:HB1	1:DA:532:GLY:HA2	1.87	0.54
1:DA:875:LEU:O	1:DA:879:LEU:HG	2.06	0.54
2:DB:612:LYS:N	2:DB:620:LEU:HD21	2.22	0.54
2:DB:1153:ILE:HD12	2:DB:1154:ASP:H	1.72	0.54
3:DC:223:SER:HB2	3:DC:303:GLU:HB3	1.89	0.54
4:DD:47:LYS:HD3	4:DD:82:LEU:HD13	1.89	0.54
10:DJ:41:LEU:HD22	10:DJ:46:CYS:HB3	1.89	0.54
1:EA:709:ARG:C	1:EA:711:LYS:H	2.14	0.54
1:EA:719:ILE:HG22	1:EA:725:LEU:H	1.72	0.54
1:EA:758:GLU:O	1:EA:760:TRP:N	2.40	0.54
1:EA:822:THR:O	2:EB:778:TYR:HE1	1.89	0.54
1:EA:952:LEU:CD1	2:EB:519:LYS:HD2	2.37	0.54
2:EB:346:ASP:H	13:EM:113:ILE:HG13	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:852:VAL:HG13	2:EB:856:ASP:HB2	1.89	0.54
14:EN:64:ILE:C	14:EN:66:LYS:H	2.15	0.54
1:FA:699:CYS:O	1:FA:815:ARG:NH1	2.39	0.54
1:FA:1012:LYS:HE3	2:FB:515:THR:HG23	1.88	0.54
1:FA:1195:GLU:O	1:FA:1198:THR:OG1	2.24	0.54
1:FA:1324:LEU:HD22	1:FA:1492:ILE:HG13	1.88	0.54
2:FB:913:ILE:HD13	2:FB:930:LYS:HG3	1.88	0.54
3:FC:100:ARG:HH12	3:FC:193:LEU:CA	2.19	0.54
1:AA:1440:ASN:OD1	1:AA:1440:ASN:N	2.40	0.54
1:AA:1621:PHE:CD1	1:AA:1624:LYS:HE2	2.41	0.54
2:AB:140:LYS:HE2	2:AB:153:PHE:HD2	1.72	0.54
1:BA:987:TYR:C	1:BA:987:TYR:CD2	2.85	0.54
2:CB:380:LYS:HE3	2:CB:637:TYR:HB3	1.89	0.54
2:CB:887:LEU:HB3	2:CB:901:VAL:HG13	1.89	0.54
3:CC:147:PRO:O	3:CC:149:GLY:N	2.41	0.54
4:CD:36:VAL:HG21	7:CG:38:ILE:HD13	1.90	0.54
8:CH:97:MET:HB3	8:CH:118:PHE:CD1	2.42	0.54
12:CL:40:LEU:HD22	12:CL:44:ASP:HB3	1.89	0.54
13:CM:58:GLU:HG2	13:CM:59:ARG:N	2.22	0.54
1:DA:7:VAL:HG11	2:DB:1175:THR:O	2.08	0.54
1:DA:530:TRP:HZ2	1:DA:582:LYS:HA	1.71	0.54
3:DC:147:PRO:HG2	3:DC:150:SER:HB2	1.89	0.54
6:DF:70:LYS:HG3	7:DG:94:PRO:O	2.08	0.54
13:DM:78:VAL:O	13:DM:91:TYR:N	2.35	0.54
14:DN:107:MET:N	14:DN:107:MET:SD	2.80	0.54
1:EA:472:MET:HE1	1:EA:1638:SER:OG	2.08	0.54
1:EA:512:THR:O	1:EA:516:ILE:HB	2.08	0.54
2:EB:349:VAL:O	2:EB:353:VAL:HG23	2.06	0.54
2:EB:854:GLU:HG3	2:EB:875:HIS:HA	1.89	0.54
2:EB:1048:SER:OG	2:EB:1049:THR:N	2.40	0.54
3:EC:71:MET:HE3	3:EC:313:ILE:HG22	1.89	0.54
7:EG:250:ILE:HG22	7:EG:251:SER:H	1.71	0.54
9:EI:101:LEU:HD11	9:EI:122:ARG:HH22	1.72	0.54
1:FA:239:PHE:CG	1:FA:260:GLN:HG2	2.42	0.54
1:FA:956:ARG:HG2	1:FA:979:GLY:O	2.07	0.54
1:FA:975:ASP:OD1	1:FA:976:ALA:N	2.40	0.54
1:FA:1248:ASP:O	1:FA:1251:ALA:HB3	2.08	0.54
10:FJ:18:TRP:O	10:FJ:22:LEU:HG	2.07	0.54
7:FO:265:SER:HB3	7:FO:268:GLU:HG2	1.87	0.54
1:AA:339:PHE:O	1:AA:1629:ASN:HB2	2.08	0.54
1:AA:1027:LEU:HD21	1:AA:1588:MET:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1314:GLN:O	1:AA:1318:SER:HB3	2.06	0.54
1:AA:1540:GLY:O	1:AA:1542:THR:N	2.40	0.54
2:BB:105:ALA:O	2:BB:135:GLY:HA3	2.07	0.54
8:BH:107:VAL:HG23	8:BH:112:ILE:HA	1.88	0.54
10:BJ:45:CYS:O	10:BJ:48:ARG:HB3	2.07	0.54
1:CA:9:SER:OG	4:CD:20:VAL:HG21	2.07	0.54
1:CA:579:ARG:HH11	1:CA:579:ARG:HG3	1.71	0.54
1:CA:1540:GLY:O	1:CA:1542:THR:N	2.38	0.54
6:CF:83:PRO:O	6:CF:151:LEU:HD22	2.06	0.54
9:CI:101:LEU:O	9:CI:106:GLU:HG2	2.07	0.54
1:DA:223:PHE:CZ	1:DA:227:LEU:HD21	2.42	0.54
1:DA:1262:LEU:HD12	1:DA:1264:SER:HG	1.73	0.54
13:DM:16:GLN:HG3	13:DM:17:ASP:H	1.72	0.54
1:EA:836:THR:OG1	1:EA:837:ALA:N	2.40	0.54
1:EA:937:ASN:O	1:EA:940:VAL:HB	2.07	0.54
2:EB:876:SER:C	2:EB:878:GLU:H	2.15	0.54
1:FA:550:SER:O	1:FA:553:GLN:HG3	2.07	0.54
1:FA:966:LEU:HD23	1:FA:969:PHE:CD2	2.42	0.54
1:FA:1175:MET:O	1:FA:1178:LEU:HG	2.08	0.54
2:FB:18:THR:HA	2:FB:21:ARG:NH2	2.22	0.54
6:FF:92:ARG:O	6:FF:96:THR:OG1	2.21	0.54
1:AA:669:LEU:HD12	1:AA:786:TYR:CD1	2.38	0.54
2:AB:18:THR:HA	2:AB:21:ARG:HH21	1.70	0.54
2:AB:35:PHE:HB3	2:AB:38:LEU:HD23	1.89	0.54
2:AB:773:VAL:HG21	2:AB:1031:VAL:HB	1.88	0.54
2:AB:825:PHE:HE2	2:AB:899:GLN:HA	1.73	0.54
2:AB:1047:ARG:HG3	2:AB:1068:GLY:HA2	1.90	0.54
3:AC:255:VAL:HG12	3:AC:256:ILE:HG12	1.89	0.54
7:AG:50:ALA:HA	7:AG:113:PHE:CE2	2.43	0.54
10:AJ:43:ARG:O	10:AJ:47:ARG:HG3	2.08	0.54
1:BA:1226:VAL:HG12	1:BA:1227:MET:HG2	1.89	0.54
1:BA:1344:ILE:HD13	2:BB:329:TYR:HE2	1.72	0.54
1:BA:1538:VAL:HA	1:BA:1541:ILE:HD11	1.89	0.54
1:BA:1596:LEU:HD22	1:BA:1602:GLY:HA2	1.89	0.54
2:BB:412:ILE:O	2:BB:416:LYS:HG2	2.07	0.54
2:BB:707:SER:HB2	2:BB:715:ASN:OD1	2.07	0.54
3:BC:128:ASP:C	3:BC:130:ASN:H	2.14	0.54
7:BO:287:GLU:O	7:BO:291:SER:N	2.39	0.54
1:CA:512:THR:O	1:CA:516:ILE:HB	2.06	0.54
1:CA:532:GLY:O	1:CA:580:HIS:N	2.24	0.54
1:CA:1216:THR:HG23	1:CA:1234:LYS:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1257:SER:HA	1:CA:1499:ARG:NH2	2.22	0.54
2:CB:12:ARG:NH2	2:CB:755:ASN:OD1	2.40	0.54
2:CB:848:ILE:CG1	12:CL:60:ARG:HA	2.35	0.54
2:CB:964:VAL:O	2:CB:966:SER:N	2.40	0.54
5:CE:39:LEU:O	5:CE:42:PHE:HB3	2.08	0.54
1:DA:58:LEU:HD22	7:DO:296:ASP:OD1	2.07	0.54
1:DA:896:THR:O	1:DA:900:VAL:HG13	2.08	0.54
1:DA:1540:GLY:O	1:DA:1542:THR:N	2.38	0.54
1:DA:1589:MET:HE2	1:DA:1598:PHE:HE1	1.72	0.54
2:DB:242:ASP:OD2	2:DB:414:LYS:NZ	2.36	0.54
2:DB:1123:ILE:HD12	2:DB:1124:SER:H	1.72	0.54
2:EB:1138:ALA:O	2:EB:1141:LEU:HG	2.07	0.54
3:EC:70:ILE:C	3:EC:72:ILE:H	2.14	0.54
14:EN:55:LEU:C	14:EN:56:ILE:HG13	2.32	0.54
2:FB:533:THR:OG1	2:FB:534:PRO:HD2	2.08	0.54
2:FB:584:CYS:HB2	2:FB:598:HIS:ND1	2.23	0.54
2:FB:649:MET:HE3	2:FB:666:PRO:HG2	1.90	0.54
3:FC:65:ASN:OD1	3:FC:68:ARG:NH1	2.41	0.54
11:FK:49:LEU:HD11	11:FK:54:THR:HG21	1.90	0.54
2:AB:18:THR:HA	2:AB:21:ARG:NH2	2.22	0.54
2:AB:1186:ASP:OD2	2:AB:1198:TYR:OH	2.24	0.54
3:AC:85:PHE:CG	3:AC:204:LEU:HD13	2.41	0.54
5:AE:127:ILE:HD11	5:AE:132:ILE:HD11	1.89	0.54
1:BA:521:GLN:O	1:BA:524:ILE:HB	2.07	0.54
1:BA:1136:VAL:HG22	1:BA:1174:TYR:CD1	2.42	0.54
1:BA:1458:THR:HG21	1:BA:1475:GLU:HG2	1.90	0.54
2:BB:140:LYS:HE2	2:BB:153:PHE:HD2	1.72	0.54
2:BB:693:PRO:O	2:BB:696:ILE:HG13	2.08	0.54
2:BB:834:LYS:C	2:BB:836:TRP:N	2.65	0.54
3:BC:147:PRO:HG2	3:BC:150:SER:HB2	1.89	0.54
3:BC:223:SER:HB2	3:BC:303:GLU:HB3	1.89	0.54
9:BI:33:CYS:HB2	13:BM:60:LEU:CD2	2.38	0.54
11:BK:83:ASN:HB3	11:BK:86:VAL:HG23	1.88	0.54
1:CA:624:TYR:O	1:CA:625:ASN:HB3	2.07	0.54
2:CB:302:LEU:HD11	2:CB:379:ARG:CZ	2.38	0.54
3:CC:100:ARG:HH12	3:CC:193:LEU:C	2.14	0.54
1:DA:189:VAL:O	1:DA:193:ILE:HG13	2.08	0.54
1:DA:597:LYS:HZ1	1:DA:656:GLN:HE22	1.54	0.54
2:DB:38:LEU:HD21	2:DB:760:TYR:O	2.07	0.54
2:DB:338:PHE:CZ	2:DB:353:VAL:HG13	2.42	0.54
2:DB:707:SER:HB2	2:DB:715:ASN:OD1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:59:ILE:HG12	3:DC:60:ASP:N	2.23	0.54
3:DC:69:ARG:HD3	11:DK:71:THR:OG1	2.08	0.54
8:DH:106:GLU:HG2	8:DH:112:ILE:HD11	1.88	0.54
9:DI:23:VAL:HG21	9:DI:28:VAL:HG13	1.89	0.54
1:EA:3:ILE:HA	7:EG:111:THR:HG22	1.90	0.54
7:EG:132:VAL:HG23	7:EG:232:THR:HB	1.88	0.54
9:EI:95:ASN:HB2	9:EI:113:THR:HB	1.89	0.54
13:EM:77:VAL:HG21	14:EN:64:ILE:HD12	1.90	0.54
14:EN:55:LEU:HD12	14:EN:56:ILE:H	1.72	0.54
1:FA:1144:LEU:O	1:FA:1148:LEU:HB2	2.08	0.54
1:FA:1226:VAL:HG12	1:FA:1227:MET:HG2	1.90	0.54
2:FB:412:ILE:O	2:FB:416:LYS:HG2	2.07	0.54
5:FE:143:ASN:O	5:FE:145:THR:N	2.40	0.54
7:FG:39:VAL:HB	7:FG:126:GLN:HE21	1.72	0.54
13:FM:57:ASN:O	13:FM:103:LYS:NZ	2.40	0.54
1:AA:1335:LYS:HD2	1:AA:1338:ARG:HH21	1.72	0.54
3:AC:88:ASN:OD1	3:AC:202:ILE:HD11	2.07	0.54
12:AL:63:ARG:HG2	12:AL:64:LEU:N	2.15	0.54
1:BA:349:LEU:HD12	1:BA:351:LYS:HE3	1.89	0.54
1:BA:818:THR:CG2	2:BB:780:GLY:HA3	2.37	0.54
2:BB:1195:ARG:HH21	2:BB:1197:ARG:HD2	1.71	0.54
3:BC:77:SER:O	3:BC:210:LEU:HA	2.08	0.54
3:BC:100:ARG:HH12	3:BC:193:LEU:C	2.14	0.54
1:CA:809:VAL:HG12	1:CA:810:LEU:N	2.22	0.54
1:CA:1019:LEU:HD21	1:CA:1194:GLY:CA	2.38	0.54
1:CA:1263:LEU:HG	1:CA:1267:ILE:HD11	1.89	0.54
9:CI:88:GLN:OE1	9:CI:119:TYR:HB2	2.07	0.54
7:CO:311:GLU:O	7:CO:312:GLU:HG3	2.08	0.54
1:DA:1559:ARG:NH2	5:DE:200:ARG:HD3	2.23	0.54
2:DB:52:LEU:HB3	2:DB:61:LEU:CD1	2.37	0.54
2:DB:661:GLU:HG3	2:DB:662:ASP:N	2.20	0.54
2:DB:821:ILE:HD11	2:DB:899:GLN:OE1	2.07	0.54
2:DB:913:ILE:HD13	2:DB:930:LYS:HG3	1.89	0.54
7:DG:132:VAL:HG23	7:DG:232:THR:HB	1.90	0.54
1:EA:480:ALA:HB2	2:EB:1046:VAL:HA	1.89	0.54
1:EA:1257:SER:HA	1:EA:1499:ARG:NH2	2.23	0.54
1:EA:1647:ASN:HD22	1:EA:1648:ASN:N	2.05	0.54
2:EB:178:TYR:O	2:EB:182:GLN:HG2	2.08	0.54
13:EM:15:VAL:HA	13:EM:90:LEU:HB2	1.90	0.54
3:FC:88:ASN:OD1	3:FC:202:ILE:HD11	2.06	0.54
11:FK:75:ALA:O	11:FK:79:VAL:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FM:40:LEU:HD12	13:FM:41:TYR:H	1.72	0.54
1:AA:586:VAL:HG13	1:AA:638:PRO:HG2	1.89	0.54
2:AB:1047:ARG:NH2	2:AB:1059:PRO:HB3	2.22	0.54
4:AD:22:ILE:HG23	7:AG:44:ALA:O	2.07	0.54
7:AG:229:LEU:HD12	7:AG:230:ARG:H	1.73	0.54
8:AH:30:SER:HB3	8:AH:36:CYS:HB3	1.89	0.54
1:BA:99:ARG:O	1:BA:109:ARG:NH2	2.40	0.54
1:BA:753:ASN:ND2	1:BA:767:ASN:O	2.41	0.54
2:BB:849:GLY:H	2:BB:882:ILE:HB	1.72	0.54
1:CA:928:MET:HG3	1:CA:933:ALA:HB3	1.89	0.54
1:CA:987:TYR:C	1:CA:987:TYR:CD2	2.85	0.54
1:CA:1260:LYS:HA	1:CA:1499:ARG:O	2.07	0.54
2:CB:1047:ARG:NH2	2:CB:1051:PRO:O	2.41	0.54
2:CB:1053:ASN:ND2	2:CB:1054:SER:H	2.06	0.54
5:CE:76:GLY:H	5:CE:106:GLN:HG2	1.72	0.54
1:DA:1136:VAL:HG22	1:DA:1174:TYR:CE1	2.43	0.54
1:DA:1137:SER:HB2	5:DE:205:SER:HB2	1.88	0.54
2:DB:906:ARG:NE	3:DC:95:GLU:OE2	2.37	0.54
3:DC:100:ARG:HH12	3:DC:193:LEU:C	2.16	0.54
9:DI:101:LEU:HD11	9:DI:122:ARG:HH22	1.73	0.54
1:EA:14:VAL:HG22	2:EB:1198:TYR:HB3	1.89	0.54
1:EA:804:GLU:H	1:EA:804:GLU:CD	2.15	0.54
1:EA:1216:THR:HG23	1:EA:1234:LYS:HD2	1.88	0.54
5:EE:178:ILE:HG22	5:EE:212:ARG:HB3	1.90	0.54
7:EG:40:ARG:NH1	7:EG:123:TYR:OH	2.41	0.54
14:EN:70:LEU:O	14:EN:70:LEU:HG	2.08	0.54
1:FA:136:LEU:HD13	1:FA:189:VAL:HG23	1.90	0.54
1:FA:1463:ASP:O	1:FA:1465:GLU:N	2.38	0.54
1:FA:1470:CYS:SG	1:FA:1471:GLU:N	2.81	0.54
1:FA:1646:LEU:HD11	2:FB:1085:SER:HB3	1.90	0.54
2:FB:211:ARG:NH2	2:FB:243:GLN:OE1	2.31	0.54
5:FE:127:ILE:HD11	5:FE:132:ILE:HD11	1.90	0.54
7:FG:132:VAL:HG23	7:FG:232:THR:HB	1.89	0.54
8:FH:123:MET:HE1	8:FH:142:LEU:HD22	1.89	0.54
10:FJ:43:ARG:NH1	10:FJ:46:CYS:SG	2.80	0.54
1:AA:1447:GLN:HG3	1:AA:1460:TYR:HB3	1.90	0.54
2:AB:532:HIS:ND1	2:AB:700:LEU:HD13	2.23	0.54
2:AB:790:ASN:OD1	2:AB:792:SER:N	2.41	0.54
2:AB:888:ILE:HG13	12:AL:54:ARG:O	2.08	0.54
3:AC:233:ILE:HD11	3:AC:291:LEU:HG	1.88	0.54
11:AK:125:MET:HA	11:AK:128:CYS:SG	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:10:ILE:HG22	13:AM:11:GLU:H	1.73	0.54
13:AM:39:ASP:C	13:AM:53:LEU:HD12	2.32	0.54
13:AM:77:VAL:HG21	14:AN:64:ILE:HD12	1.90	0.54
7:AO:265:SER:C	7:AO:267:ALA:H	2.16	0.54
1:BA:713:VAL:HB	1:BA:738:ASN:HD21	1.73	0.54
2:BB:345:SER:HA	13:BM:113:ILE:CG1	2.38	0.54
5:BE:70:SER:OG	5:BE:71:LYS:N	2.40	0.54
1:CA:102:CYS:HB2	1:CA:109:ARG:HG2	1.90	0.54
1:CA:752:LYS:HG3	1:CA:768:GLU:HA	1.90	0.54
1:CA:1196:PRO:C	1:CA:1198:THR:H	2.15	0.54
2:CB:190:ILE:HG12	2:CB:191:GLY:N	2.23	0.54
14:CN:90:MET:O	14:CN:137:PHE:HB3	2.07	0.54
1:DA:1344:ILE:HG22	2:DB:334:PHE:HE2	1.72	0.54
2:DB:1060:VAL:HG22	2:DB:1061:LYS:N	2.23	0.54
2:DB:1157:GLN:HB3	2:DB:1168:VAL:HG12	1.89	0.54
7:DG:80:VAL:HG12	7:DG:82:LEU:HD23	1.90	0.54
8:DH:35:GLN:O	8:DH:127:GLY:HA2	2.07	0.54
12:DL:32:ALA:HB3	12:DL:55:ILE:HG13	1.88	0.54
1:EA:363:PRO:HB3	2:EB:1187:SER:OG	2.08	0.54
1:EA:1252:ASP:HA	1:EA:1255:CYS:SG	2.48	0.54
2:EB:262:PHE:CZ	2:EB:269:TYR:HB2	2.43	0.54
14:EN:55:LEU:O	14:EN:136:VAL:HG13	2.07	0.54
1:FA:624:TYR:O	1:FA:625:ASN:HB3	2.08	0.54
1:FA:1028:GLU:HB3	1:FA:1187:ILE:HD11	1.90	0.54
1:FA:1556:GLU:O	1:FA:1559:ARG:HB3	2.08	0.54
11:FK:128:CYS:O	11:FK:131:VAL:HB	2.07	0.54
1:AA:315:ILE:HG13	1:AA:319:GLU:HB2	1.89	0.54
1:AA:659:THR:HG23	1:AA:664:SER:O	2.06	0.54
1:AA:759:TYR:CE1	1:AA:913:PRO:HG3	2.42	0.54
1:AA:1294:MET:N	1:AA:1294:MET:SD	2.81	0.54
2:AB:960:ILE:O	2:AB:963:PHE:HB2	2.08	0.54
4:AD:22:ILE:H	7:AG:76:LYS:NZ	2.05	0.54
5:AE:28:TYR:HA	5:AE:64:PRO:HA	1.89	0.54
7:AO:286:ILE:C	7:AO:288:ASN:H	2.14	0.54
1:BA:854:GLY:O	1:BA:974:THR:HB	2.07	0.54
1:BA:1335:LYS:HD2	1:BA:1338:ARG:NH2	2.23	0.54
2:BB:170:CYS:SG	2:BB:171:HIS:N	2.81	0.54
4:BD:22:ILE:CD1	7:BG:45:LEU:HA	2.37	0.54
2:CB:52:LEU:HD22	2:CB:61:LEU:HD21	1.89	0.54
1:DA:512:THR:O	1:DA:516:ILE:HB	2.08	0.54
1:DA:850:SER:O	1:DA:852:ASP:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1028:GLU:CD	1:DA:1637:PRO:HB2	2.33	0.54
1:DA:1324:LEU:HD22	1:DA:1492:ILE:HG13	1.90	0.54
2:DB:164:MET:O	2:DB:167:SER:OG	2.21	0.54
2:DB:542:LEU:C	2:DB:543:ASN:HD22	2.16	0.54
9:DI:15:ASP:CG	9:DI:32:GLN:HG3	2.33	0.54
1:EA:499:PRO:HG3	1:EA:609:PRO:HA	1.90	0.54
2:EB:280:LEU:HD12	2:EB:371:PHE:HD1	1.72	0.54
1:FA:1263:LEU:HG	1:FA:1267:ILE:HD11	1.90	0.54
1:FA:1272:VAL:O	1:FA:1273:THR:OG1	2.22	0.54
2:FB:52:LEU:HB3	2:FB:61:LEU:CD1	2.38	0.54
2:FB:164:MET:O	2:FB:167:SER:OG	2.20	0.54
2:FB:1002:LYS:HZ2	14:FN:166:LEU:HD13	1.71	0.54
7:FG:82:LEU:HG	7:FG:124:VAL:HA	1.89	0.54
8:FH:116:TYR:HB2	8:FH:123:MET:SD	2.48	0.54
1:AA:189:VAL:O	1:AA:193:ILE:HG13	2.08	0.54
1:AA:214:ASP:OD2	5:AE:177:ARG:NH2	2.40	0.54
1:AA:1022:CYS:HA	1:AA:1615:TYR:HH	1.73	0.54
1:AA:1022:CYS:SG	1:AA:1615:TYR:OH	2.64	0.54
1:AA:1117:SER:O	1:AA:1117:SER:OG	2.19	0.54
2:AB:472:SER:OG	2:AB:473:GLN:N	2.40	0.54
5:AE:133:GLU:HB3	5:AE:135:PHE:CE1	2.41	0.54
10:AJ:10:CYS:SG	10:AJ:43:ARG:NH1	2.81	0.54
12:AL:30:ILE:O	12:AL:57:LEU:HD12	2.08	0.54
1:BA:522:ALA:HB1	1:BA:532:GLY:HA2	1.90	0.54
1:BA:956:ARG:HG2	1:BA:979:GLY:O	2.07	0.54
1:BA:1262:LEU:HD12	1:BA:1264:SER:OG	2.08	0.54
3:BC:233:ILE:HD11	3:BC:291:LEU:HG	1.90	0.54
9:BI:89:CYS:SG	9:BI:117:CYS:SG	3.06	0.54
1:CA:758:GLU:O	1:CA:760:TRP:N	2.40	0.54
2:CB:301:PHE:HD1	2:CB:302:LEU:HD23	1.72	0.54
4:CD:47:LYS:HD3	4:CD:82:LEU:HD13	1.89	0.54
7:CG:82:LEU:HG	7:CG:124:VAL:HA	1.89	0.54
1:DA:480:ALA:HB2	2:DB:1046:VAL:HG23	1.89	0.54
1:DA:693:GLN:O	1:DA:696:ILE:HB	2.08	0.54
1:DA:697:TYR:HE1	1:DA:702:PRO:HD3	1.74	0.54
1:DA:701:ARG:O	1:DA:704:ASP:HB2	2.07	0.54
1:DA:782:ASP:OD1	1:DA:783:LYS:N	2.41	0.54
1:DA:1555:VAL:HG11	5:DE:178:ILE:HD13	1.90	0.54
2:DB:105:ALA:O	2:DB:135:GLY:HA3	2.07	0.54
2:DB:539:CYS:C	2:DB:541:LEU:H	2.15	0.54
2:DB:586:VAL:HB	2:DB:593:ILE:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:547:ILE:C	1:EA:549:MET:H	2.14	0.54
2:EB:46:ILE:HG22	2:EB:50:ASN:HD21	1.73	0.54
2:EB:209:GLN:OE1	2:EB:237:ARG:HB2	2.08	0.54
2:EB:380:LYS:HG3	2:EB:637:TYR:CD2	2.43	0.54
5:EE:127:ILE:HD11	5:EE:132:ILE:HD11	1.89	0.54
8:EH:15:VAL:HG22	8:EH:26:ILE:HG12	1.89	0.54
1:FA:18:ILE:HA	2:FB:1193:GLY:O	2.08	0.54
1:FA:123:ARG:HD3	1:FA:337:TYR:CE1	2.43	0.54
1:FA:477:ASN:OD1	2:FB:1049:THR:HG23	2.07	0.54
2:FB:1186:ASP:O	2:FB:1190:SER:OG	2.27	0.54
5:FE:70:SER:OG	5:FE:71:LYS:N	2.39	0.54
9:FI:101:LEU:HD11	9:FI:122:ARG:HH22	1.73	0.54
13:FM:77:VAL:HG21	14:FN:64:ILE:HD12	1.90	0.54
1:AA:1553:TYR:HD1	5:AE:144:ILE:HB	1.73	0.53
2:AB:286:ARG:HD2	9:AI:9:PHE:CG	2.43	0.53
2:AB:428:VAL:O	2:AB:432:ILE:HD12	2.08	0.53
5:AE:22:MET:HA	5:AE:187:TYR:CZ	2.43	0.53
1:BA:499:PRO:HG3	1:BA:609:PRO:HA	1.90	0.53
1:BA:1245:ASP:OD2	1:BA:1245:ASP:N	2.34	0.53
1:BA:1292:ILE:HD12	1:BA:1292:ILE:O	2.08	0.53
1:BA:1545:ASP:OD1	1:BA:1546:VAL:N	2.36	0.53
7:BG:93:ASP:HB2	7:BG:104:LEU:HD12	1.91	0.53
9:BI:23:VAL:HG21	9:BI:28:VAL:HG13	1.90	0.53
1:CA:1244:ASN:HA	1:CA:1517:ARG:HH11	1.73	0.53
2:CB:903:ILE:N	2:CB:903:ILE:HD12	2.23	0.53
5:CE:147:HIS:HB3	5:CE:150:VAL:HG23	1.89	0.53
7:CG:139:ILE:CD1	7:CG:140:GLN:H	2.20	0.53
8:CH:38:LEU:HD12	8:CH:124:ARG:O	2.07	0.53
1:DA:30:LYS:NZ	1:DA:51:ASP:OD2	2.24	0.53
7:DG:29:ASP:O	7:DG:31:LYS:N	2.41	0.53
14:DN:26:PRO:HB2	14:DN:29:PHE:CD1	2.42	0.53
1:EA:61:LEU:HG	1:EA:67:LEU:O	2.09	0.53
1:EA:555:LYS:O	1:EA:558:ALA:HB3	2.08	0.53
1:EA:1621:PHE:O	1:EA:1624:LYS:HB2	2.08	0.53
2:EB:170:CYS:SG	2:EB:171:HIS:N	2.80	0.53
1:FA:399:LEU:CD1	7:FO:270:LEU:HB3	2.37	0.53
1:FA:1659:LYS:HA	7:FG:104:LEU:HD23	1.90	0.53
2:FB:575:HIS:NE2	13:FM:76:TYR:OH	2.38	0.53
8:FH:13:SER:N	8:FH:27:GLU:O	2.34	0.53
8:FH:35:GLN:O	8:FH:127:GLY:HA2	2.08	0.53
1:AA:58:LEU:HD11	7:AO:295:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1216:THR:HG23	1:AA:1234:LYS:HD2	1.89	0.53
11:AK:75:ALA:O	11:AK:79:VAL:HG23	2.08	0.53
13:AM:58:GLU:HG2	13:AM:59:ARG:N	2.23	0.53
1:BA:943:ILE:HA	1:BA:986:PHE:HB2	1.89	0.53
1:BA:1105:ARG:HH22	1:BA:1138:GLU:CD	2.17	0.53
2:BB:275:MET:SD	2:BB:330:LEU:HD21	2.47	0.53
2:BB:558:VAL:HA	2:BB:561:ILE:HG13	1.91	0.53
6:BF:102:SER:HB3	6:BF:117:PRO:HB3	1.89	0.53
5:CE:40:GLU:HA	5:CE:43:LYS:HE3	1.91	0.53
9:CI:2:SER:O	9:CI:9:PHE:N	2.35	0.53
13:CM:21:VAL:HB	14:CN:109:LEU:HD11	1.91	0.53
1:DA:816:LEU:HG	1:DA:817:PHE:N	2.24	0.53
1:DA:966:LEU:HD12	1:DA:967:PRO:HD2	1.90	0.53
1:DA:1556:GLU:O	1:DA:1559:ARG:HB3	2.08	0.53
2:DB:533:THR:OG1	2:DB:534:PRO:HD2	2.08	0.53
7:DG:229:LEU:HD12	7:DG:230:ARG:H	1.72	0.53
3:EC:197:ARG:HG2	10:EJ:61:LEU:HD22	1.90	0.53
3:EC:227:TYR:HA	3:EC:299:ILE:O	2.08	0.53
4:ED:16:LEU:O	7:EG:64:GLN:NE2	2.41	0.53
5:EE:39:LEU:O	5:EE:42:PHE:HB3	2.08	0.53
10:EJ:54:VAL:HG12	10:EJ:56:LEU:HB2	1.88	0.53
13:EM:10:ILE:HG22	13:EM:11:GLU:N	2.24	0.53
1:FA:39:ASP:OD2	1:FA:43:HIS:HB2	2.08	0.53
1:FA:1095:LEU:CD2	1:FA:1134:GLY:HA3	2.38	0.53
1:FA:1170:MET:HA	1:FA:1173:LYS:HB3	1.90	0.53
2:FB:416:LYS:HD2	2:FB:460:LYS:HD2	1.89	0.53
2:FB:902:SER:OG	2:FB:903:ILE:N	2.41	0.53
1:AA:70:LYS:C	1:AA:71:PHE:HD1	2.17	0.53
1:AA:1263:LEU:C	1:AA:1265:GLU:H	2.17	0.53
2:AB:934:ILE:HG21	3:AC:73:SER:CB	2.38	0.53
7:AG:149:ILE:HG22	7:AG:150:HIS:CD2	2.32	0.53
8:AH:94:ASP:N	8:AH:94:ASP:OD1	2.40	0.53
9:AI:38:PRO:HG2	9:AI:41:GLN:HB2	1.90	0.53
14:AN:75:GLU:H	14:AN:91:ASP:CB	2.22	0.53
2:BB:939:SER:OG	2:BB:943:ILE:N	2.40	0.53
4:BD:89:LEU:HD23	4:BD:92:ILE:HD12	1.90	0.53
10:BJ:54:VAL:HG12	10:BJ:56:LEU:HB2	1.89	0.53
13:BM:81:PHE:HB2	13:BM:88:ILE:HD13	1.89	0.53
14:BN:69:SER:HB3	8:DH:75:ALA:HB2	1.90	0.53
7:BO:272:ILE:HG13	7:BO:274:SER:H	1.73	0.53
1:CA:1016:SER:CB	1:CA:1019:LEU:HD22	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:276:ILE:O	2:CB:280:LEU:HG	2.09	0.53
2:CB:532:HIS:ND1	2:CB:700:LEU:HD13	2.23	0.53
5:CE:133:GLU:HB3	5:CE:135:PHE:CE1	2.42	0.53
9:CI:65:SER:OG	9:CI:66:VAL:N	2.40	0.53
10:CJ:2:ILE:HD12	10:CJ:57:ILE:HD13	1.89	0.53
10:CJ:31:ASP:OD1	10:CJ:34:THR:HB	2.08	0.53
10:CJ:54:VAL:HG12	10:CJ:56:LEU:HB2	1.90	0.53
1:DA:52:LEU:C	1:DA:54:LEU:H	2.16	0.53
1:DA:111:LYS:O	1:DA:115:VAL:HG23	2.08	0.53
1:DA:591:ARG:HB2	1:DA:633:MET:HG2	1.90	0.53
1:DA:671:GLN:HA	2:DB:952:HIS:HD2	1.73	0.53
1:DA:1647:ASN:HD22	1:DA:1648:ASN:N	2.05	0.53
3:DC:84:TYR:HB3	12:DL:64:LEU:HD11	1.89	0.53
1:EA:882:ILE:HD13	1:EA:888:LYS:HB3	1.89	0.53
1:EA:1104:TYR:HE2	1:EA:1119:LYS:HD2	1.72	0.53
2:EB:338:PHE:CZ	2:EB:353:VAL:HG13	2.44	0.53
3:EC:83:VAL:HG22	3:EC:206:ALA:HB1	1.89	0.53
3:EC:97:LEU:O	3:EC:100:ARG:HB2	2.08	0.53
9:EI:94:MET:HG2	9:EI:114:CYS:HA	1.89	0.53
13:EM:57:ASN:O	13:EM:103:LYS:NZ	2.41	0.53
14:EN:110:LEU:CD2	14:EN:121:ILE:HA	2.38	0.53
1:FA:349:LEU:HD12	1:FA:351:LYS:HE3	1.89	0.53
1:FA:936:SER:O	1:FA:940:VAL:HG23	2.07	0.53
1:FA:1559:ARG:HD2	1:FA:1587:ASP:OD1	2.08	0.53
2:FB:307:GLU:OE2	2:FB:311:ARG:NH1	2.37	0.53
2:FB:662:ASP:OD1	2:FB:663:ILE:N	2.41	0.53
2:FB:787:MET:O	2:FB:788:ILE:HD13	2.08	0.53
2:FB:975:HIS:HE2	2:FB:1003:ALA:HB2	1.74	0.53
5:FE:22:MET:HA	5:FE:187:TYR:CZ	2.43	0.53
13:FM:113:ILE:O	13:FM:113:ILE:HG22	2.07	0.53
2:AB:302:LEU:HD11	2:AB:379:ARG:CZ	2.39	0.53
2:AB:468:GLY:O	2:AB:482:SER:HA	2.08	0.53
2:AB:714:ARG:NH1	9:AI:105:ASP:HA	2.24	0.53
2:AB:1160:GLU:HG2	2:AB:1166:LYS:HG2	1.90	0.53
5:AE:33:GLU:O	5:AE:36:GLU:N	2.41	0.53
2:BB:1198:TYR:CD2	2:BB:1198:TYR:N	2.75	0.53
1:CA:513:ALA:O	1:CA:516:ILE:HG22	2.08	0.53
1:CA:604:LYS:HZ2	6:CF:119:ARG:HH22	1.56	0.53
1:CA:763:GLY:HA3	8:CH:25:ARG:NE	2.23	0.53
1:CA:1105:ARG:NH1	1:CA:1138:GLU:OE1	2.39	0.53
1:CA:1238:MET:HG3	1:CA:1524:VAL:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:209:GLN:OE1	2:CB:237:ARG:HB2	2.08	0.53
2:CB:888:ILE:HG13	12:CL:55:ILE:HA	1.89	0.53
5:CE:98:ILE:O	5:CE:102:GLU:HB2	2.09	0.53
4:DD:89:LEU:O	4:DD:92:ILE:N	2.37	0.53
1:EA:809:VAL:HG13	1:EA:813:LEU:HD11	1.90	0.53
1:EA:1019:LEU:HD21	1:EA:1194:GLY:HA2	1.90	0.53
2:EB:242:ASP:OD2	2:EB:414:LYS:NZ	2.35	0.53
2:EB:280:LEU:O	2:EB:323:ARG:NH2	2.42	0.53
2:EB:584:CYS:HB2	2:EB:598:HIS:ND1	2.23	0.53
2:EB:986:PHE:CD1	14:EN:160:VAL:HG21	2.44	0.53
3:EC:70:ILE:O	3:EC:72:ILE:N	2.41	0.53
5:EE:98:ILE:O	5:EE:102:GLU:HB2	2.07	0.53
11:EK:46:LYS:HE3	11:EK:66:VAL:O	2.08	0.53
14:EN:26:PRO:HB2	14:EN:29:PHE:CD1	2.44	0.53
1:FA:718:THR:OG1	1:FA:730:GLN:OE1	2.26	0.53
1:FA:928:MET:HG2	2:FB:955:PRO:HG3	1.90	0.53
3:FC:97:LEU:O	3:FC:100:ARG:HB2	2.08	0.53
6:FF:70:LYS:HG3	7:FG:94:PRO:O	2.07	0.53
8:FH:30:SER:HB3	8:FH:36:CYS:HB3	1.91	0.53
13:FM:58:GLU:HG2	13:FM:59:ARG:N	2.22	0.53
1:AA:552:GLU:HB3	2:BB:837:LEU:HD12	1.90	0.53
1:AA:597:LYS:HB2	2:AB:1082:HIS:CE1	2.44	0.53
1:AA:1092:GLU:O	1:AA:1094:ALA:N	2.40	0.53
1:AA:1162:ASN:H	1:AA:1165:LYS:HD2	1.72	0.53
2:AB:504:HIS:HB3	2:AB:542:LEU:HD23	1.90	0.53
3:AC:223:SER:HB2	3:AC:303:GLU:HB3	1.90	0.53
3:AC:314:PHE:O	3:AC:317:SER:OG	2.20	0.53
12:AL:33:GLU:HG2	12:AL:55:ILE:HG12	1.89	0.53
1:BA:9:SER:OG	4:BD:20:VAL:HG21	2.08	0.53
1:BA:111:LYS:O	1:BA:115:VAL:HG23	2.08	0.53
1:BA:480:ALA:HB2	2:BB:1046:VAL:HA	1.91	0.53
1:BA:513:ALA:O	1:BA:516:ILE:HG22	2.09	0.53
1:BA:1332:GLU:O	1:BA:1336:GLN:HG2	2.09	0.53
1:BA:1440:ASN:N	1:BA:1440:ASN:OD1	2.41	0.53
2:BB:18:THR:HA	2:BB:21:ARG:HH21	1.73	0.53
2:BB:392:ASP:HB3	2:BB:399:HIS:CE1	2.43	0.53
2:BB:604:ILE:O	2:BB:608:LEU:HG	2.09	0.53
3:BC:95:GLU:HG2	3:BC:96:VAL:N	2.24	0.53
13:BM:80:LEU:HD11	14:BN:39:PRO:HD2	1.90	0.53
1:CA:211:THR:O	1:CA:214:ASP:N	2.33	0.53
1:CA:426:ALA:CA	7:CO:273:VAL:HG21	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:975:HIS:NE2	2:CB:1003:ALA:HB2	2.23	0.53
3:CC:228:ARG:NH1	14:CN:173:THR:H	2.06	0.53
1:DA:1546:VAL:O	1:DA:1549:VAL:N	2.42	0.53
2:DB:251:HIS:HB2	2:DB:259:THR:OG1	2.09	0.53
2:DB:772:VAL:HB	2:DB:946:ASP:OD2	2.09	0.53
8:DH:14:GLU:HG2	8:DH:15:VAL:N	2.23	0.53
1:EA:985:ARG:HG2	1:EA:988:SER:H	1.74	0.53
2:EB:775:VAL:H	2:EB:1028:VAL:HG12	1.73	0.53
1:FA:1016:SER:CB	1:FA:1019:LEU:HD22	2.39	0.53
2:FB:1037:ARG:O	2:FB:1039:MET:N	2.40	0.53
3:FC:37:LYS:HD2	11:FK:130:VAL:HG22	1.90	0.53
1:AA:756:LYS:HG2	9:AI:85:LYS:NZ	2.24	0.53
1:AA:1022:CYS:HG	1:AA:1615:TYR:HH	1.56	0.53
10:AJ:2:ILE:HG12	10:AJ:3:VAL:H	1.71	0.53
6:BF:58:PHE:HZ	7:BG:117:TRP:CH2	2.27	0.53
14:BN:90:MET:O	14:BN:137:PHE:HB3	2.09	0.53
1:CA:342:ARG:CZ	1:CA:342:ARG:HB2	2.38	0.53
1:CA:1263:LEU:C	1:CA:1265:GLU:H	2.16	0.53
1:CA:1621:PHE:CD1	1:CA:1624:LYS:HE2	2.44	0.53
3:CC:86:PHE:CE2	3:CC:205:LYS:HE3	2.44	0.53
7:CG:72:LYS:O	7:CG:81:VAL:HG23	2.09	0.53
1:DA:624:TYR:O	1:DA:625:ASN:HB3	2.08	0.53
1:DA:874:GLU:O	1:DA:878:ARG:HB2	2.08	0.53
1:DA:1239:THR:HG23	1:DA:1520:VAL:HG13	1.91	0.53
2:DB:301:PHE:HD1	2:DB:302:LEU:HD23	1.73	0.53
2:DB:917:PHE:HD2	2:DB:1035:ARG:HA	1.73	0.53
7:DG:82:LEU:HG	7:DG:124:VAL:HA	1.90	0.53
14:DN:31:LYS:O	14:DN:33:LYS:N	2.42	0.53
1:EA:7:VAL:HG12	1:EA:9:SER:H	1.72	0.53
1:EA:896:THR:HG21	1:EA:956:ARG:NH1	2.24	0.53
1:EA:1596:LEU:HD22	1:EA:1602:GLY:HA2	1.90	0.53
2:EB:885:VAL:HG11	12:EL:58:LYS:HB3	1.89	0.53
3:EC:86:PHE:CE2	3:EC:205:LYS:HE3	2.43	0.53
7:EG:10:ASN:HB2	7:EG:14:ALA:HB3	1.91	0.53
8:EH:12:VAL:HA	8:EH:28:ALA:HB2	1.91	0.53
14:EN:55:LEU:HB2	14:EN:133:PHE:CZ	2.43	0.53
14:EN:85:HIS:HB3	14:EN:87:TYR:CE1	2.44	0.53
1:FA:3:ILE:HA	7:FG:111:THR:HG22	1.91	0.53
1:FA:692:TYR:O	1:FA:696:ILE:HG12	2.08	0.53
2:FB:542:LEU:C	2:FB:543:ASN:HD22	2.17	0.53
14:FN:75:GLU:H	14:FN:91:ASP:CB	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:808:LYS:O	1:AA:809:VAL:C	2.51	0.53
1:AA:1269:LYS:HD2	1:AA:1271:ILE:HD11	1.89	0.53
1:AA:1272:VAL:O	1:AA:1273:THR:OG1	2.21	0.53
1:AA:1545:ASP:CG	1:AA:1546:VAL:N	2.66	0.53
1:BA:697:TYR:HE1	1:BA:702:PRO:CD	2.22	0.53
1:BA:836:THR:OG1	1:BA:837:ALA:N	2.42	0.53
2:BB:346:ASP:CG	13:BM:113:ILE:HA	2.33	0.53
2:BB:504:HIS:HB3	2:BB:542:LEU:HD23	1.91	0.53
2:BB:612:LYS:N	2:BB:620:LEU:HD21	2.23	0.53
2:BB:772:VAL:HG12	2:BB:946:ASP:H	1.74	0.53
2:BB:1055:LEU:HD11	7:BO:312:GLU:HG3	1.91	0.53
7:BG:149:ILE:HG22	7:BG:150:HIS:CD2	2.33	0.53
9:BI:20:PRO:C	9:BI:22:ALA:H	2.17	0.53
1:CA:1108:HIS:CG	1:CA:1117:SER:HB3	2.44	0.53
2:CB:397:THR:HA	2:CB:400:GLN:OE1	2.08	0.53
2:CB:1151:ILE:HG22	2:CB:1152:PHE:H	1.73	0.53
3:CC:174:ARG:O	3:CC:178:THR:OG1	2.12	0.53
8:CH:102:TYR:HE2	8:CH:116:TYR:C	2.17	0.53
13:CM:89:GLN:O	13:CM:90:LEU:HD23	2.08	0.53
1:DA:555:LYS:O	1:DA:558:ALA:HB3	2.08	0.53
1:DA:850:SER:O	1:DA:853:THR:N	2.36	0.53
1:DA:1117:SER:C	1:DA:1119:LYS:H	2.15	0.53
1:DA:1344:ILE:HG23	2:DB:271:VAL:HG22	1.90	0.53
2:DB:408:LEU:HA	2:DB:411:MET:HG3	1.89	0.53
7:DG:66:LEU:HD11	7:DG:87:LEU:HD22	1.91	0.53
8:DH:12:VAL:HA	8:DH:28:ALA:HB2	1.90	0.53
14:DN:90:MET:O	14:DN:137:PHE:HB3	2.09	0.53
1:EA:1:MET:HE2	7:EG:110:ASP:HB3	1.90	0.53
2:EB:470:LEU:HD22	2:EB:484:TYR:HE1	1.74	0.53
2:EB:986:PHE:CD2	2:EB:992:PRO:HG3	2.44	0.53
2:EB:1198:TYR:H	2:EB:1198:TYR:HD2	1.57	0.53
1:FA:545:SER:O	1:FA:545:SER:OG	2.25	0.53
1:FA:1019:LEU:HD21	1:FA:1194:GLY:CA	2.38	0.53
1:FA:1289:SER:HA	1:FA:1475:GLU:OE1	2.08	0.53
5:FE:40:GLU:HA	5:FE:43:LYS:HE3	1.91	0.53
8:FH:38:LEU:HD11	8:FH:123:MET:HG3	1.90	0.53
8:FH:102:TYR:HE2	8:FH:116:TYR:C	2.16	0.53
1:AA:835:LEU:HG	1:AA:985:ARG:NH1	2.21	0.53
1:AA:885:ASP:O	1:AA:889:SER:HB3	2.07	0.53
1:AA:1217:LEU:HD13	1:AA:1573:TYR:CE1	2.41	0.53
1:AA:1245:ASP:OD2	1:AA:1245:ASP:N	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:429:ARG:O	2:AB:433:ASN:ND2	2.32	0.53
2:AB:501:ARG:HG3	2:AB:699:ILE:CD1	2.39	0.53
2:AB:983:PRO:HB2	2:AB:984:TRP:CE3	2.44	0.53
6:AF:119:ARG:HA	6:AF:122:MET:HG3	1.90	0.53
7:AG:159:LYS:NZ	7:BO:278:ILE:HB	2.20	0.53
1:BA:90:PHE:HE1	1:BA:1623:THR:HG23	1.74	0.53
1:BA:1291:VAL:HA	1:BA:1473:LYS:HB2	1.90	0.53
1:BA:1326:GLU:HG2	1:BA:1456:PHE:HD2	1.74	0.53
2:BB:532:HIS:CD2	2:BB:700:LEU:HD22	2.44	0.53
2:BB:625:GLU:HB2	2:BB:643:PHE:O	2.08	0.53
2:BB:843:ASP:OD1	2:BB:845:LEU:HG	2.09	0.53
2:BB:987:ASN:O	2:BB:989:ASP:N	2.42	0.53
10:BJ:31:ASP:OD1	10:BJ:34:THR:HB	2.08	0.53
1:CA:697:TYR:HE1	1:CA:702:PRO:HD3	1.72	0.53
1:CA:1058:THR:C	1:CA:1060:GLU:H	2.17	0.53
2:CB:52:LEU:HB3	2:CB:61:LEU:CD1	2.38	0.53
2:CB:459:SER:O	2:CB:462:GLN:N	2.42	0.53
2:CB:728:THR:OG1	2:CB:766:PRO:O	2.18	0.53
2:CB:757:TYR:CZ	2:CB:762:MET:HB3	2.44	0.53
1:DA:1344:ILE:HD13	2:DB:329:TYR:CE2	2.44	0.53
1:DA:1463:ASP:HB2	1:DA:1469:TRP:CD1	2.44	0.53
2:DB:244:THR:HG21	2:DB:414:LYS:HD3	1.90	0.53
2:DB:462:GLN:O	2:DB:466:SER:N	2.42	0.53
2:DB:470:LEU:HD22	2:DB:484:TYR:HE1	1.73	0.53
8:DH:94:ASP:N	8:DH:94:ASP:OD1	2.42	0.53
1:EA:1049:MET:HG2	1:EA:1054:ALA:HB2	1.90	0.53
2:EB:301:PHE:CD1	2:EB:302:LEU:HD23	2.43	0.53
3:EC:65:ASN:OD1	3:EC:68:ARG:NH1	2.42	0.53
9:EI:10:CYS:HB3	9:EI:13:CYS:SG	2.49	0.53
10:EJ:2:ILE:HD12	10:EJ:57:ILE:HD13	1.91	0.53
1:FA:67:LEU:HD13	1:FA:71:PHE:HB3	1.90	0.53
1:FA:211:THR:O	1:FA:214:ASP:N	2.39	0.53
1:FA:678:VAL:O	1:FA:681:THR:N	2.41	0.53
1:FA:1092:GLU:O	1:FA:1095:LEU:N	2.39	0.53
1:FA:1661:PRO:HA	7:FG:102:GLU:HA	1.91	0.53
2:FB:665:GLY:N	2:FB:668:GLU:OE1	2.41	0.53
3:FC:147:PRO:O	3:FC:149:GLY:N	2.42	0.53
3:FC:277:ARG:NH1	3:FC:291:LEU:HD13	2.24	0.53
1:AA:1019:LEU:HD21	1:AA:1194:GLY:HA2	1.90	0.53
1:AA:1620:GLN:O	1:AA:1623:THR:N	2.41	0.53
3:AC:59:ILE:HG12	3:AC:60:ASP:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:248:GLN:HG3	3:AC:256:ILE:O	2.09	0.53
5:AE:41:ASP:OD1	5:AE:41:ASP:N	2.23	0.53
14:AN:85:HIS:HB3	14:AN:87:TYR:CE1	2.44	0.53
1:BA:1028:GLU:CD	1:BA:1637:PRO:HB2	2.33	0.53
1:BA:1662:ASN:HB3	7:BG:57:PRO:HD2	1.89	0.53
2:BB:628:TYR:HD1	2:BB:640:LEU:HD13	1.72	0.53
2:BB:675:ALA:O	2:BB:690:GLU:HG2	2.09	0.53
2:BB:744:LEU:HD11	2:BB:799:GLY:HA2	1.89	0.53
2:BB:825:PHE:HE2	2:BB:899:GLN:HA	1.74	0.53
13:BM:39:ASP:C	13:BM:53:LEU:HD12	2.34	0.53
1:CA:748:ASN:ND2	1:CA:1072:ASN:OD1	2.42	0.53
1:CA:1240:LEU:HD23	1:CA:1541:ILE:HG23	1.90	0.53
2:CB:72:VAL:HA	2:CB:95:LEU:O	2.09	0.53
2:CB:250:LEU:HD11	2:CB:378:ILE:HD13	1.91	0.53
2:CB:962:MET:O	2:CB:965:GLU:N	2.42	0.53
1:DA:457:LYS:C	1:DA:459:ALA:H	2.15	0.53
2:DB:655:TYR:HD1	2:DB:688:HIS:HE2	1.57	0.53
4:DD:24:ALA:HA	7:DG:43:ILE:HA	1.90	0.53
1:EA:701:ARG:O	1:EA:704:ASP:HB2	2.09	0.53
1:EA:763:GLY:HA3	8:EH:25:ARG:NE	2.24	0.53
1:EA:1620:GLN:O	1:EA:1623:THR:N	2.41	0.53
2:EB:942:GLY:C	2:EB:943:ILE:HD12	2.34	0.53
7:EG:37:CYS:HB3	7:EG:125:TRP:HD1	1.73	0.53
10:EJ:6:ARG:HB3	10:EJ:11:GLY:O	2.07	0.53
1:FA:323:ILE:O	1:FA:327:VAL:HG23	2.09	0.53
2:FB:184:LYS:NZ	12:FL:33:GLU:OE1	2.32	0.53
2:FB:891:GLU:O	2:FB:894:LYS:N	2.31	0.53
3:FC:216:HIS:O	3:FC:218:LYS:N	2.42	0.53
10:FJ:2:ILE:HG12	10:FJ:3:VAL:H	1.73	0.53
10:FJ:45:CYS:O	10:FJ:49:MET:HG2	2.09	0.53
1:AA:39:ASP:OD2	1:AA:43:HIS:HB2	2.08	0.53
1:AA:1226:VAL:HG12	1:AA:1227:MET:HG2	1.91	0.53
1:AA:1555:VAL:CG1	5:AE:178:ILE:HD13	2.39	0.53
13:AM:16:GLN:HG3	13:AM:17:ASP:H	1.74	0.53
2:BB:373:MET:HE2	2:BB:592:ILE:HG13	1.91	0.53
5:BE:177:ARG:HD3	5:BE:215:MET:HB2	1.91	0.53
10:BJ:2:ILE:HD12	10:BJ:57:ILE:HD13	1.91	0.53
7:BO:298:PRO:O	7:BO:310:TYR:OH	2.27	0.53
1:CA:864:LEU:HD11	1:CA:875:LEU:HA	1.91	0.53
1:CA:968:SER:CB	2:CB:676:VAL:HG23	2.39	0.53
1:CA:1590:THR:OG1	5:CE:212:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:5:LEU:CD2	8:CH:135:LEU:HD23	2.35	0.53
1:DA:968:SER:HB2	2:DB:676:VAL:HG23	1.88	0.53
1:DA:1016:SER:CB	1:DA:1019:LEU:HD22	2.38	0.53
1:DA:1530:TRP:O	5:DE:14:ARG:NH2	2.41	0.53
2:DB:210:ARG:HH22	2:DB:625:GLU:CD	2.17	0.53
2:DB:662:ASP:OD1	2:DB:663:ILE:N	2.42	0.53
8:DH:116:TYR:HB2	8:DH:123:MET:SD	2.49	0.53
7:DO:282:ASP:O	7:DO:286:ILE:HG12	2.09	0.53
1:EA:323:ILE:O	1:EA:327:VAL:HG23	2.09	0.53
1:EA:680:LEU:HD12	1:EA:820:TYR:CD1	2.44	0.53
1:EA:1609:SER:O	1:EA:1612:LYS:HB2	2.09	0.53
9:EI:122:ARG:HG3	9:EI:122:ARG:O	2.09	0.53
11:EK:58:GLY:C	11:EK:60:SER:N	2.67	0.53
1:FA:864:LEU:HD11	1:FA:875:LEU:HA	1.89	0.53
1:FA:1073:TYR:CZ	1:FA:1077:LEU:HD22	2.44	0.53
1:FA:1559:ARG:O	1:FA:1563:VAL:HG23	2.09	0.53
2:FB:628:TYR:HD1	2:FB:640:LEU:HD13	1.74	0.53
3:FC:70:ILE:O	3:FC:72:ILE:N	2.42	0.53
5:FE:80:VAL:HG22	5:FE:109:ILE:HB	1.91	0.53
1:AA:720:PHE:CZ	8:AH:141:TYR:HE2	2.27	0.52
1:AA:1024:THR:O	1:AA:1028:GLU:N	2.41	0.52
1:AA:1512:PRO:HB3	1:AA:1517:ARG:HA	1.91	0.52
2:AB:105:ALA:O	2:AB:135:GLY:HA3	2.09	0.52
2:AB:876:SER:C	2:AB:878:GLU:H	2.17	0.52
7:AG:139:ILE:CD1	7:AG:140:GLN:H	2.21	0.52
8:AH:38:LEU:HD12	8:AH:124:ARG:O	2.08	0.52
10:AJ:41:LEU:HD22	10:AJ:46:CYS:HB3	1.89	0.52
3:BC:42:VAL:HG22	3:BC:56:LEU:HD22	1.91	0.52
5:BE:143:ASN:O	5:BE:145:THR:N	2.41	0.52
1:CA:681:THR:HG21	1:CA:781:LEU:HG	1.90	0.52
1:CA:1105:ARG:HH12	1:CA:1138:GLU:CD	2.17	0.52
2:CB:362:LEU:HB2	2:CB:370:LYS:HE2	1.91	0.52
3:CC:79:ALA:HB3	3:CC:219:PHE:CE1	2.44	0.52
3:CC:216:HIS:CE1	3:CC:218:LYS:HB3	2.44	0.52
1:DA:39:ASP:OD2	1:DA:43:HIS:HB2	2.09	0.52
1:DA:372:LYS:HZ1	7:DO:297:LEU:HD11	1.75	0.52
1:DA:1102:LEU:HD22	1:DA:1141:GLN:HE21	1.74	0.52
1:DA:1263:LEU:O	1:DA:1265:GLU:N	2.42	0.52
3:DC:100:ARG:HH12	3:DC:193:LEU:HA	1.73	0.52
4:DD:82:LEU:HD22	7:DG:67:ASN:HD22	1.74	0.52
14:DN:148:ILE:HD13	14:DN:150:TYR:OH	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:164:MET:O	2:EB:167:SER:OG	2.14	0.52
2:EB:459:SER:O	2:EB:462:GLN:N	2.42	0.52
6:EF:100:GLN:HG2	7:EG:112:PRO:CB	2.38	0.52
1:FA:727:THR:OG1	1:FA:728:GLY:N	2.43	0.52
1:FA:1640:ARG:O	1:FA:1644:GLY:N	2.32	0.52
1:AA:670:ILE:HD13	1:AA:670:ILE:N	2.24	0.52
1:AA:699:CYS:O	1:AA:815:ARG:NH1	2.43	0.52
2:AB:604:ILE:O	2:AB:608:LEU:HG	2.10	0.52
2:AB:848:ILE:HD12	2:AB:885:VAL:HG21	1.91	0.52
5:AE:48:ASP:O	5:AE:50:MET:N	2.42	0.52
7:AG:57:PRO:HG2	7:AG:58:LEU:H	1.74	0.52
10:AJ:36:LEU:HD11	10:AJ:51:LEU:HB2	1.91	0.52
1:BA:11:ILE:CG2	2:BB:1198:TYR:HB2	2.40	0.52
1:BA:20:THR:HG23	1:BA:23:GLU:HG3	1.91	0.52
1:BA:253:GLU:O	1:BA:312:SER:HA	2.09	0.52
1:BA:1216:THR:HG23	1:BA:1234:LYS:HD2	1.89	0.52
1:BA:1242:ILE:HD11	1:BA:1517:ARG:HB3	1.90	0.52
2:BB:99:VAL:HG11	2:BB:139:LEU:HD13	1.91	0.52
3:BC:48:ASP:CG	3:BC:49:ALA:N	2.68	0.52
4:BD:94:ARG:HD2	4:BD:99:LEU:HD13	1.91	0.52
12:BL:32:ALA:HB2	12:BL:57:LEU:HG	1.89	0.52
1:CA:669:LEU:HD22	1:CA:673:HIS:HD1	1.74	0.52
2:CB:251:HIS:HB2	2:CB:259:THR:OG1	2.08	0.52
2:CB:280:LEU:HD12	2:CB:371:PHE:HD1	1.75	0.52
2:CB:776:ILE:HD12	2:CB:777:SER:H	1.74	0.52
5:CE:43:LYS:O	5:CE:47:CYS:HB2	2.09	0.52
6:CF:136:ARG:O	6:CF:143:PHE:HB2	2.09	0.52
10:CJ:48:ARG:HB3	10:CJ:48:ARG:HH11	1.74	0.52
1:DA:976:ALA:HB1	1:DA:981:TYR:HB3	1.90	0.52
1:DA:1242:ILE:CD1	1:DA:1517:ARG:HB3	2.38	0.52
1:DA:1314:GLN:O	1:DA:1318:SER:HB3	2.09	0.52
2:DB:74:PHE:HD2	2:DB:91:LEU:HD22	1.75	0.52
2:DB:649:MET:HE3	2:DB:666:PRO:HG2	1.90	0.52
2:DB:885:VAL:HA	2:DB:903:ILE:HG22	1.92	0.52
2:DB:1198:TYR:H	2:DB:1198:TYR:HD2	1.56	0.52
4:DD:33:THR:O	4:DD:36:VAL:HB	2.10	0.52
1:EA:176:THR:HA	1:EA:179:ASN:ND2	2.24	0.52
2:EB:744:LEU:HD12	2:EB:800:TYR:O	2.09	0.52
3:EC:83:VAL:HG12	3:EC:204:LEU:HD12	1.90	0.52
9:EI:72:LYS:HB2	9:EI:73:LYS:HE3	1.91	0.52
1:FA:9:SER:OG	4:FD:20:VAL:HG21	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:512:THR:O	1:FA:516:ILE:HB	2.09	0.52
1:FA:960:MET:HE1	1:FA:967:PRO:HD3	1.90	0.52
2:FB:876:SER:C	2:FB:878:GLU:H	2.15	0.52
2:FB:903:ILE:N	2:FB:903:ILE:HD12	2.23	0.52
3:FC:70:ILE:C	3:FC:72:ILE:H	2.17	0.52
14:FN:31:LYS:O	14:FN:33:LYS:N	2.42	0.52
1:AA:111:LYS:O	1:AA:115:VAL:HG23	2.09	0.52
1:AA:1454:HIS:HB2	1:AA:1457:ILE:HG13	1.92	0.52
1:AA:1555:VAL:HG13	1:AA:1556:GLU:N	2.24	0.52
1:BA:808:LYS:O	1:BA:809:VAL:C	2.51	0.52
1:BA:835:LEU:HG	1:BA:985:ARG:NH1	2.19	0.52
1:BA:1217:LEU:HD11	1:BA:1572:ARG:CD	2.38	0.52
1:BA:1344:ILE:HD13	2:BB:329:TYR:CE2	2.44	0.52
2:BB:627:GLY:H	2:BB:642:LEU:HD22	1.75	0.52
2:BB:687:THR:OG1	2:BB:688:HIS:ND1	2.42	0.52
13:BM:85:LYS:C	13:BM:87:SER:H	2.17	0.52
14:BN:97:SER:HA	14:BN:104:LEU:O	2.08	0.52
1:CA:1066:PHE:HB3	1:CA:1147:PHE:CE2	2.44	0.52
2:CB:886:ASN:O	2:CB:902:SER:N	2.30	0.52
2:CB:998:GLU:O	2:CB:1001:ALA:N	2.42	0.52
3:CC:147:PRO:HG2	3:CC:150:SER:HB2	1.90	0.52
5:CE:177:ARG:CZ	5:CE:179:GLN:HE22	2.22	0.52
7:CG:57:PRO:HG2	7:CG:58:LEU:H	1.74	0.52
11:CK:58:GLY:C	11:CK:60:SER:N	2.64	0.52
11:CK:60:SER:OG	11:CK:104:ARG:NH2	2.36	0.52
13:CM:10:ILE:HB	14:CN:70:LEU:HD21	1.91	0.52
1:DA:920:PHE:CG	1:DA:921:PRO:HA	2.44	0.52
1:DA:1024:THR:O	1:DA:1028:GLU:N	2.43	0.52
1:DA:1237:GLN:HG2	1:DA:1544:ASN:HD22	1.74	0.52
2:DB:615:GLY:C	2:DB:617:THR:H	2.17	0.52
2:DB:628:TYR:HD1	2:DB:640:LEU:HD13	1.74	0.52
9:DI:10:CYS:HB3	9:DI:13:CYS:SG	2.48	0.52
1:EA:349:LEU:HD12	1:EA:351:LYS:HE3	1.90	0.52
1:EA:718:THR:HG22	8:EH:98:TYR:O	2.10	0.52
1:EA:1027:LEU:HD21	1:EA:1588:MET:HG2	1.91	0.52
2:EB:244:THR:HG21	2:EB:414:LYS:HD3	1.90	0.52
2:EB:609:ARG:O	2:EB:612:LYS:HB3	2.10	0.52
2:EB:876:SER:O	2:EB:878:GLU:N	2.34	0.52
5:EE:87:SER:HA	5:EE:115:ASN:HB3	1.92	0.52
10:EJ:16:ASP:C	10:EJ:18:TRP:H	2.18	0.52
1:FA:52:LEU:C	1:FA:54:LEU:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:58:LEU:HD11	7:FO:295:LEU:HD11	1.90	0.52
1:FA:674:ILE:O	1:FA:678:VAL:HG23	2.09	0.52
1:FA:1021:ARG:O	1:FA:1025:LYS:HB2	2.09	0.52
1:FA:1264:SER:HA	1:FA:1267:ILE:HD12	1.91	0.52
2:FB:854:GLU:HG3	2:FB:875:HIS:HA	1.92	0.52
2:FB:1073:GLU:CD	2:FB:1073:GLU:H	2.17	0.52
2:FB:1157:GLN:HB3	2:FB:1168:VAL:HG12	1.92	0.52
6:FF:72:LYS:HD2	6:FF:141:GLY:C	2.34	0.52
1:AA:966:LEU:HD12	1:AA:967:PRO:HD2	1.90	0.52
1:AA:1012:LYS:HE3	2:AB:515:THR:HG23	1.90	0.52
1:AA:1258:ILE:O	1:AA:1501:ILE:HG13	2.10	0.52
2:AB:301:PHE:HD1	2:AB:302:LEU:HD23	1.73	0.52
2:AB:713:PRO:HG3	9:AI:100:GLN:NE2	2.24	0.52
2:AB:1178:ILE:HD12	2:AB:1179:PRO:O	2.09	0.52
3:AC:289:VAL:HG12	3:AC:290:LYS:H	1.73	0.52
9:AI:2:SER:HA	9:AI:9:PHE:O	2.08	0.52
12:AL:38:LEU:HD12	12:AL:49:LYS:HD3	1.91	0.52
13:AM:41:TYR:CD2	14:AN:25:ILE:HD11	2.43	0.52
14:AN:55:LEU:HB2	14:AN:133:PHE:CZ	2.45	0.52
7:BG:40:ARG:HD3	7:BG:123:TYR:HE1	1.74	0.52
14:BN:55:LEU:C	14:BN:56:ILE:HG13	2.34	0.52
1:CA:875:LEU:O	1:CA:879:LEU:HG	2.09	0.52
1:CA:1073:TYR:CE1	1:CA:1077:LEU:HD22	2.45	0.52
1:CA:1463:ASP:HB2	1:CA:1469:TRP:CD1	2.44	0.52
10:CJ:43:ARG:O	10:CJ:47:ARG:HG3	2.08	0.52
11:CK:60:SER:HG	11:CK:104:ARG:HH21	1.57	0.52
11:CK:118:GLN:O	11:CK:121:LEU:N	2.43	0.52
13:CM:81:PHE:HB2	13:CM:88:ILE:HD13	1.92	0.52
14:CN:72:VAL:O	14:CN:73:ASP:C	2.53	0.52
1:DA:197:LEU:HD23	1:DA:202:THR:O	2.10	0.52
1:DA:719:ILE:HG12	8:DH:97:MET:HG2	1.92	0.52
1:DA:1484:LEU:HG	2:DB:308:LEU:HD11	1.92	0.52
1:DA:1516:LYS:O	1:DA:1518:VAL:HB	2.09	0.52
2:DB:708:ASP:OD1	2:DB:708:ASP:N	2.41	0.52
2:DB:841:ASP:HB3	2:DB:843:ASP:OD1	2.09	0.52
2:DB:848:ILE:HD12	2:DB:885:VAL:HG21	1.91	0.52
2:DB:902:SER:OG	2:DB:903:ILE:N	2.39	0.52
5:DE:40:GLU:HA	5:DE:43:LYS:HE3	1.91	0.52
7:DG:45:LEU:CD1	7:DG:118:CYS:HB2	2.39	0.52
1:EA:52:LEU:C	1:EA:54:LEU:H	2.18	0.52
2:EB:703:LEU:HD23	2:EB:754:ALA:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:230:LEU:HD12	3:EC:231:PRO:HD2	1.91	0.52
5:EE:159:ASP:O	5:EE:163:GLU:HG2	2.09	0.52
7:EG:46:TYR:CD1	7:EG:117:TRP:CD1	2.98	0.52
1:FA:93:GLN:HB2	1:FA:355:PHE:HE2	1.73	0.52
1:FA:521:GLN:O	1:FA:524:ILE:HB	2.08	0.52
1:FA:855:ARG:NH1	1:FA:868:THR:O	2.42	0.52
1:FA:882:ILE:HD11	9:FI:67:VAL:HG11	1.90	0.52
2:FB:286:ARG:HG2	13:FM:27:PHE:CG	2.44	0.52
2:FB:359:LEU:HD22	2:FB:361:HIS:CE1	2.44	0.52
2:FB:474:SER:C	2:FB:476:LEU:N	2.66	0.52
2:FB:744:LEU:HD11	2:FB:799:GLY:HA2	1.91	0.52
2:FB:895:PHE:O	2:FB:896:GLN:C	2.52	0.52
3:FC:147:PRO:HG2	3:FC:150:SER:HB2	1.90	0.52
4:FD:30:HIS:NE2	7:FG:26:ASN:OD1	2.25	0.52
1:AA:188:TYR:O	1:AA:191:MET:N	2.42	0.52
1:AA:426:ALA:O	1:AA:430:ILE:HG22	2.09	0.52
1:AA:663:GLY:O	1:AA:790:LYS:HE3	2.10	0.52
1:AA:1016:SER:CB	1:AA:1019:LEU:HD22	2.39	0.52
1:AA:1555:VAL:N	5:AE:182:ASP:OD1	2.34	0.52
1:AA:1597:ALA:O	1:AA:1602:GLY:HA3	2.09	0.52
2:AB:70:GLU:HG2	2:AB:97:VAL:C	2.35	0.52
2:AB:612:LYS:N	2:AB:620:LEU:HD21	2.25	0.52
3:AC:228:ARG:HD3	14:AN:173:THR:CG2	2.40	0.52
11:AK:53:ALA:HB1	11:AK:104:ARG:HH12	1.74	0.52
1:BA:70:LYS:C	1:BA:71:PHE:HD1	2.18	0.52
1:BA:1484:LEU:HG	2:BB:308:LEU:HD11	1.90	0.52
2:BB:18:THR:HA	2:BB:21:ARG:NH2	2.25	0.52
2:BB:359:LEU:HD22	2:BB:361:HIS:CE1	2.45	0.52
3:BC:85:PHE:O	12:BL:64:LEU:HA	2.09	0.52
7:BG:66:LEU:HD11	7:BG:87:LEU:HD22	1.92	0.52
1:CA:70:LYS:C	1:CA:71:PHE:HD1	2.17	0.52
1:CA:748:ASN:N	1:CA:748:ASN:ND2	2.57	0.52
2:CB:718:GLN:CD	2:CB:920:ARG:HA	2.34	0.52
1:DA:339:PHE:O	1:DA:1629:ASN:HB2	2.09	0.52
1:DA:558:ALA:O	1:DA:561:LEU:HG	2.10	0.52
1:DA:753:ASN:OD1	1:DA:755:ILE:N	2.40	0.52
1:DA:947:LEU:HB2	1:DA:982:VAL:HG21	1.91	0.52
1:DA:1532:GLN:HB2	1:DA:1536:ILE:HD11	1.92	0.52
2:DB:211:ARG:NH2	2:DB:243:GLN:OE1	2.30	0.52
2:DB:493:PHE:HE2	2:DB:762:MET:HE1	1.74	0.52
11:DK:58:GLY:C	11:DK:60:SER:N	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:756:LYS:HG2	9:EI:85:LYS:NZ	2.24	0.52
1:EA:1292:ILE:HD12	1:EA:1292:ILE:O	2.10	0.52
2:EB:1006:ASN:HB3	2:EB:1010:ASN:O	2.09	0.52
7:EG:33:GLY:HA3	7:EG:230:ARG:NH1	2.24	0.52
12:EL:32:ALA:HB2	12:EL:57:LEU:HG	1.91	0.52
7:EO:290:GLU:O	7:EO:292:HIS:N	2.42	0.52
1:FA:602:GLY:O	1:FA:653:THR:HG22	2.09	0.52
2:FB:887:LEU:O	2:FB:887:LEU:HD22	2.10	0.52
2:FB:1053:ASN:ND2	2:FB:1054:SER:H	2.07	0.52
2:FB:1056:THR:HB	2:FB:1058:GLN:HG3	1.92	0.52
3:FC:48:ASP:CG	3:FC:49:ALA:N	2.68	0.52
5:FE:177:ARG:NH1	5:FE:179:GLN:HE22	2.07	0.52
1:AA:136:LEU:HD13	1:AA:189:VAL:HG23	1.92	0.52
1:AA:874:GLU:O	1:AA:878:ARG:HB2	2.10	0.52
2:AB:772:VAL:O	2:AB:946:ASP:HB2	2.10	0.52
2:AB:854:GLU:HG3	2:AB:875:HIS:HA	1.91	0.52
2:AB:903:ILE:HD12	2:AB:903:ILE:N	2.24	0.52
4:AD:47:LYS:HD3	4:AD:82:LEU:HD13	1.90	0.52
5:AE:55:ARG:NH2	5:AE:113:GLN:OE1	2.42	0.52
1:BA:968:SER:CB	2:BB:676:VAL:HG23	2.40	0.52
1:BA:1321:PHE:HD1	1:BA:1496:SER:OG	1.93	0.52
2:BB:164:MET:O	2:BB:167:SER:OG	2.22	0.52
2:BB:349:VAL:O	2:BB:353:VAL:HG23	2.09	0.52
2:BB:887:LEU:O	2:BB:887:LEU:HD22	2.08	0.52
1:CA:39:ASP:OD2	1:CA:43:HIS:HB2	2.09	0.52
1:CA:1246:VAL:HG22	1:CA:1250:GLN:HE22	1.73	0.52
1:CA:1562:ILE:O	1:CA:1566:ILE:HG13	2.09	0.52
1:CA:1608:SER:OG	1:CA:1632:GLU:OE1	2.27	0.52
3:CC:253:PRO:HG2	14:CN:180:PHE:CG	2.44	0.52
3:CC:253:PRO:HB2	14:CN:180:PHE:HD1	1.75	0.52
7:CG:149:ILE:HD11	7:CG:155:ALA:HB2	1.91	0.52
1:DA:830:MET:HB3	2:DB:1008:HIS:HB3	1.90	0.52
1:DA:1270:VAL:HB	9:DI:51:THR:HG21	1.92	0.52
2:DB:242:ASP:OD1	2:DB:244:THR:HG23	2.09	0.52
2:DB:250:LEU:HD11	2:DB:378:ILE:HD13	1.92	0.52
2:DB:1006:ASN:HB3	2:DB:1010:ASN:O	2.08	0.52
2:DB:1151:ILE:HG22	2:DB:1152:PHE:H	1.74	0.52
6:DF:102:SER:HB3	6:DF:117:PRO:HB3	1.92	0.52
7:DG:149:ILE:HD11	7:DG:155:ALA:HB2	1.92	0.52
11:DK:125:MET:HA	11:DK:128:CYS:SG	2.50	0.52
1:EA:70:LYS:C	1:EA:71:PHE:HD1	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:842:TRP:CZ3	1:EA:910:LYS:HG3	2.45	0.52
1:EA:843:ARG:NE	1:EA:945:CYS:O	2.40	0.52
1:EA:1060:GLU:O	1:EA:1061:SER:C	2.52	0.52
2:EB:972:GLY:CA	2:EB:977:ILE:HG22	2.39	0.52
7:EO:281:ASP:O	7:EO:284:VAL:N	2.41	0.52
1:FA:59:ARG:CZ	7:FO:298:PRO:HB3	2.40	0.52
1:FA:918:LYS:O	1:FA:923:ASN:ND2	2.40	0.52
1:FA:1217:LEU:HD13	1:FA:1573:TYR:CE1	2.43	0.52
2:FB:707:SER:HB2	2:FB:715:ASN:OD1	2.10	0.52
2:FB:1006:ASN:HB3	2:FB:1010:ASN:O	2.10	0.52
7:FG:57:PRO:HG2	7:FG:58:LEU:H	1.75	0.52
7:FG:61:VAL:HG11	7:FG:87:LEU:HD21	1.91	0.52
2:AB:703:LEU:HD21	2:AB:757:TYR:HD2	1.73	0.52
6:AF:128:LYS:NZ	6:AF:148:VAL:O	2.36	0.52
7:AG:37:CYS:HB3	7:AG:125:TRP:HD1	1.73	0.52
13:AM:32:ALA:HB3	14:AN:121:ILE:HD11	1.92	0.52
1:BA:936:SER:O	1:BA:940:VAL:HG23	2.10	0.52
3:BC:333:ILE:HD13	11:BK:47:ILE:HG13	1.92	0.52
1:CA:547:ILE:C	1:CA:549:MET:H	2.16	0.52
1:CA:1555:VAL:HG13	1:CA:1556:GLU:N	2.25	0.52
2:CB:886:ASN:N	2:CB:902:SER:O	2.32	0.52
2:CB:995:TYR:CE1	14:CN:162:LYS:HG3	2.44	0.52
5:CE:75:MET:HE1	5:CE:155:ARG:HH22	1.74	0.52
7:CG:33:GLY:HA3	7:CG:230:ARG:NH1	2.25	0.52
14:CN:64:ILE:C	14:CN:66:LYS:H	2.18	0.52
1:DA:956:ARG:HG2	1:DA:979:GLY:O	2.10	0.52
1:DA:1447:GLN:NE2	1:DA:1459:LYS:HG2	2.24	0.52
2:DB:586:VAL:HG22	2:DB:640:LEU:HD23	1.91	0.52
2:DB:975:HIS:HE2	2:DB:1003:ALA:HB2	1.75	0.52
3:DC:59:ILE:HG12	3:DC:60:ASP:H	1.74	0.52
13:DM:113:ILE:O	13:DM:113:ILE:HG22	2.09	0.52
7:DO:314:THR:HB	7:DO:316:GLU:HG3	1.92	0.52
1:EA:39:ASP:OD2	1:EA:43:HIS:HB2	2.09	0.52
1:EA:783:LYS:HE3	1:EA:932:GLY:HA3	1.92	0.52
1:EA:947:LEU:HB2	1:EA:982:VAL:HG11	1.90	0.52
1:EA:1440:ASN:N	1:EA:1440:ASN:OD1	2.42	0.52
1:EA:1623:THR:HA	1:EA:1626:VAL:HG22	1.91	0.52
2:EB:274:VAL:HA	2:EB:277:LEU:HD12	1.92	0.52
2:EB:612:LYS:N	2:EB:620:LEU:HD21	2.24	0.52
2:EB:833:PRO:HG2	2:EB:836:TRP:CZ2	2.45	0.52
5:EE:177:ARG:HD3	5:EE:215:MET:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EH:97:MET:HB3	8:EH:118:PHE:CD1	2.45	0.52
1:FA:719:ILE:HG22	1:FA:725:LEU:H	1.75	0.52
1:FA:1603:MET:HE1	1:FA:1612:LYS:HA	1.89	0.52
2:FB:295:ASN:HB3	14:FN:104:LEU:HD13	1.91	0.52
3:FC:45:SER:HG	3:FC:271:ARG:HH22	1.56	0.52
3:FC:54:PHE:CZ	3:FC:300:PHE:HB3	2.45	0.52
5:FE:178:ILE:HG22	5:FE:212:ARG:HB3	1.91	0.52
14:FN:26:PRO:HB2	14:FN:29:PHE:CD1	2.45	0.52
1:AA:549:MET:SD	1:AA:553:GLN:HB2	2.49	0.52
1:AA:669:LEU:HD13	1:AA:673:HIS:HB3	1.90	0.52
1:AA:709:ARG:C	1:AA:711:LYS:H	2.14	0.52
1:AA:1092:GLU:O	1:AA:1095:LEU:N	2.42	0.52
1:AA:1102:LEU:CD1	1:AA:1105:ARG:HH21	2.23	0.52
1:AA:1244:ASN:HA	1:AA:1517:ARG:HH11	1.74	0.52
2:AB:276:ILE:O	2:AB:280:LEU:HG	2.10	0.52
5:AE:80:VAL:HG22	5:AE:109:ILE:HB	1.91	0.52
1:BA:1247:SER:OG	1:BA:1249:GLU:N	2.37	0.52
1:BA:1470:CYS:SG	1:BA:1471:GLU:N	2.83	0.52
2:BB:662:ASP:OD1	2:BB:663:ILE:N	2.42	0.52
13:BM:10:ILE:HG22	13:BM:11:GLU:H	1.75	0.52
1:CA:95:TYR:CZ	1:CA:245:LYS:HB3	2.45	0.52
2:CB:244:THR:HG21	2:CB:414:LYS:HD3	1.91	0.52
2:CB:264:TRP:NE1	2:CB:265:ARG:HG2	2.24	0.52
2:CB:885:VAL:HA	2:CB:903:ILE:HG22	1.92	0.52
3:CC:235:ILE:HA	3:CC:289:VAL:HG13	1.92	0.52
11:CK:54:THR:HG22	11:CK:61:ALA:CA	2.36	0.52
7:CO:289:LYS:C	7:CO:289:LYS:HE2	2.34	0.52
1:DA:607:VAL:O	1:DA:608:LEU:HD23	2.10	0.52
1:DA:618:TYR:O	1:DA:621:THR:OG1	2.26	0.52
1:DA:683:LYS:HB2	8:DH:20:TYR:CE1	2.45	0.52
1:DA:843:ARG:NE	1:DA:945:CYS:O	2.41	0.52
1:DA:1324:LEU:HD22	1:DA:1492:ILE:HG23	1.92	0.52
2:DB:72:VAL:HG11	2:DB:94:LYS:HE3	1.92	0.52
2:DB:1052:VAL:HG13	7:DO:306:SER:HB2	1.92	0.52
2:DB:1073:GLU:CD	2:DB:1073:GLU:H	2.18	0.52
14:DN:55:LEU:HB2	14:DN:133:PHE:CZ	2.45	0.52
1:EA:1032:VAL:O	1:EA:1182:GLY:N	2.43	0.52
1:EA:1258:ILE:O	1:EA:1501:ILE:HG13	2.10	0.52
1:EA:1463:ASP:HB2	1:EA:1469:TRP:CD1	2.44	0.52
2:EB:501:ARG:NH2	2:EB:546:ALA:O	2.42	0.52
2:EB:600:GLN:CD	14:EN:90:MET:HE1	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:1110:ILE:H	2:EB:1111:LEU:HD23	1.75	0.52
5:EE:5:ASN:ND2	5:EE:52:ARG:HH21	2.05	0.52
1:FA:611:GLU:CD	1:FA:615:ARG:HD2	2.35	0.52
1:FA:693:GLN:O	1:FA:696:ILE:HB	2.09	0.52
1:FA:1117:SER:C	1:FA:1119:LYS:H	2.17	0.52
2:FB:260:PHE:HD1	2:FB:261:ARG:N	2.07	0.52
7:FG:149:ILE:HD11	7:FG:155:ALA:HB2	1.92	0.52
7:FG:158:LYS:O	7:FG:162:ILE:HG13	2.10	0.52
14:FN:92:ASP:O	14:FN:93:THR:OG1	2.27	0.52
1:AA:239:PHE:CG	1:AA:260:GLN:HG2	2.44	0.52
1:AA:674:ILE:O	1:AA:678:VAL:HG23	2.10	0.52
1:AA:713:VAL:HG12	1:AA:714:THR:H	1.75	0.52
1:AA:1506:ARG:CZ	1:AA:1506:ARG:HB2	2.38	0.52
2:AB:559:SER:C	2:AB:561:ILE:H	2.18	0.52
2:AB:846:PRO:HG3	2:AB:858:ILE:O	2.10	0.52
2:AB:852:VAL:HG13	2:AB:856:ASP:HB2	1.92	0.52
2:AB:1047:ARG:NH1	2:AB:1050:GLY:H	2.08	0.52
5:AE:106:GLN:O	5:AE:131:THR:HG23	2.10	0.52
1:BA:597:LYS:HB2	2:BB:1082:HIS:CE1	2.45	0.52
2:BB:345:SER:HA	13:BM:113:ILE:HD11	1.91	0.52
2:BB:609:ARG:O	2:BB:612:LYS:HB3	2.09	0.52
1:CA:7:VAL:HG12	1:CA:9:SER:H	1.73	0.52
1:CA:1028:GLU:OE1	1:CA:1638:SER:HB2	2.10	0.52
1:CA:1105:ARG:HH22	1:CA:1138:GLU:CD	2.18	0.52
1:CA:1237:GLN:HB2	1:CA:1544:ASN:HB2	1.91	0.52
1:CA:1474:LEU:HD13	1:CA:1475:GLU:N	2.25	0.52
2:CB:848:ILE:HD12	2:CB:885:VAL:HG21	1.92	0.52
3:CC:163:TYR:N	3:CC:166:ASP:OD2	2.38	0.52
3:CC:316:LYS:O	3:CC:320:ILE:N	2.40	0.52
5:CE:64:PRO:HB3	5:CE:68:SER:CB	2.40	0.52
1:DA:1105:ARG:HH12	1:DA:1138:GLU:CD	2.17	0.52
2:DB:209:GLN:OE1	2:DB:237:ARG:HB2	2.10	0.52
2:DB:775:VAL:H	2:DB:1028:VAL:HG12	1.73	0.52
2:DB:776:ILE:HD12	2:DB:777:SER:H	1.74	0.52
2:DB:1024:ALA:O	2:DB:1026:ILE:N	2.43	0.52
4:DD:25:THR:OG1	7:DG:42:PRO:HB2	2.10	0.52
5:DE:39:LEU:O	5:DE:42:PHE:HB3	2.09	0.52
14:DN:90:MET:HB2	14:DN:92:ASP:OD1	2.09	0.52
1:EA:603:HIS:HE2	1:EA:624:TYR:HH	1.57	0.52
1:EA:1144:LEU:O	1:EA:1148:LEU:HB2	2.10	0.52
1:EA:1526:PHE:O	1:EA:1529:MET:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:539:CYS:C	2:EB:541:LEU:H	2.18	0.52
7:EG:18:LYS:O	7:EG:20:HIS:N	2.43	0.52
7:EG:61:VAL:HG11	7:EG:87:LEU:HD21	1.91	0.52
7:EG:140:GLN:HB3	7:EG:217:TRP:HD1	1.75	0.52
9:EI:2:SER:HB2	9:EI:11:LEU:HD21	1.91	0.52
11:EK:135:PHE:CE2	11:EK:139:ILE:HG13	2.45	0.52
1:FA:646:GLU:OE1	2:FB:1086:PHE:HB2	2.09	0.52
1:FA:875:LEU:O	1:FA:879:LEU:HG	2.10	0.52
1:FA:1027:LEU:HD21	1:FA:1588:MET:HG2	1.91	0.52
2:FB:807:GLU:O	2:FB:902:SER:OG	2.10	0.52
2:FB:983:PRO:HB2	2:FB:984:TRP:CE3	2.45	0.52
5:FE:154:ILE:HB	5:FE:197:LYS:HB3	1.91	0.52
7:FO:296:ASP:CG	7:FO:297:LEU:N	2.68	0.52
1:AA:618:TYR:HB3	1:AA:670:ILE:CD1	2.39	0.52
1:AA:1146:SER:OG	1:AA:1147:PHE:N	2.41	0.52
2:AB:178:TYR:O	2:AB:182:GLN:HG2	2.10	0.52
2:AB:1093:LEU:HD11	2:AB:1179:PRO:HB3	1.92	0.52
3:AC:230:LEU:HD12	3:AC:231:PRO:HD2	1.91	0.52
4:AD:89:LEU:HA	4:AD:92:ILE:HD12	1.92	0.52
1:BA:1248:ASP:O	1:BA:1251:ALA:HB3	2.10	0.52
2:BB:125:GLU:O	2:BB:129:ARG:HB2	2.10	0.52
2:BB:277:LEU:HG	2:BB:374:LEU:HD21	1.92	0.52
2:BB:408:LEU:HA	2:BB:411:MET:HG3	1.92	0.52
2:BB:1050:GLY:O	7:BO:306:SER:HB2	2.09	0.52
3:BC:277:ARG:NH1	3:BC:291:LEU:HD13	2.25	0.52
13:BM:58:GLU:HG2	13:BM:59:ARG:N	2.25	0.52
13:BM:77:VAL:HG21	14:BN:64:ILE:HD12	1.91	0.52
1:CA:680:LEU:HD12	1:CA:820:TYR:CG	2.45	0.52
1:CA:1271:ILE:HG22	9:CI:48:VAL:HG12	1.92	0.52
2:CB:138:LEU:O	2:CB:139:LEU:HD23	2.10	0.52
5:CE:28:TYR:HA	5:CE:64:PRO:HA	1.92	0.52
1:DA:70:LYS:C	1:DA:71:PHE:HD1	2.17	0.52
1:DA:804:GLU:CD	1:DA:804:GLU:H	2.16	0.52
1:DA:1263:LEU:HA	1:DA:1498:ILE:HD11	1.93	0.52
2:DB:72:VAL:HG13	2:DB:95:LEU:O	2.09	0.52
3:DC:51:GLU:HB3	3:DC:303:GLU:HA	1.92	0.52
3:DC:325:ALA:O	3:DC:328:LEU:N	2.43	0.52
7:DG:10:ASN:HB2	7:DG:14:ALA:HB3	1.91	0.52
14:DN:85:HIS:HB3	14:DN:87:TYR:CE1	2.45	0.52
1:EA:7:VAL:HG11	2:EB:1175:THR:O	2.10	0.52
2:EB:772:VAL:HB	2:EB:946:ASP:OD2	2.11	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:851:TYR:HD1	2:EB:881:TYR:CE1	2.28	0.52
3:EC:223:SER:HB2	3:EC:303:GLU:HB3	1.92	0.52
7:EG:72:LYS:O	7:EG:81:VAL:HG23	2.09	0.52
1:FA:188:TYR:O	1:FA:191:MET:N	2.43	0.52
1:FA:250:LYS:HD3	1:FA:428:VAL:HG22	1.92	0.52
1:FA:1269:LYS:HD2	1:FA:1271:ILE:HD11	1.91	0.52
2:FB:380:LYS:HE3	2:FB:637:TYR:CB	2.40	0.52
2:FB:393:ASN:ND2	2:FB:395:ASP:HB2	2.24	0.52
2:FB:504:HIS:HB3	2:FB:542:LEU:HD23	1.91	0.52
2:FB:916:LYS:HE3	2:FB:1040:VAL:HG13	1.91	0.52
2:FB:1178:ILE:HD12	2:FB:1179:PRO:O	2.09	0.52
3:FC:248:GLN:HG3	3:FC:256:ILE:O	2.10	0.52
7:FG:53:TYR:HB3	7:FG:56:ASN:O	2.10	0.52
9:FI:122:ARG:HG3	9:FI:122:ARG:O	2.09	0.52
1:AA:1195:GLU:O	1:AA:1198:THR:OG1	2.27	0.51
1:AA:1246:VAL:HG22	1:AA:1250:GLN:NE2	2.24	0.51
2:AB:821:ILE:HD11	2:AB:899:GLN:OE1	2.10	0.51
2:AB:858:ILE:HG12	2:AB:872:LYS:O	2.10	0.51
3:AC:87:ASN:OD1	12:AL:60:ARG:HD3	2.10	0.51
3:AC:253:PRO:HB2	14:AN:180:PHE:HD1	1.75	0.51
11:AK:49:LEU:HD12	11:AK:62:SER:O	2.10	0.51
1:BA:1012:LYS:HE3	2:BB:515:THR:HG23	1.92	0.51
1:BA:1447:GLN:NE2	1:BA:1459:LYS:HG2	2.25	0.51
2:BB:526:GLY:HA2	2:BB:696:ILE:HG22	1.91	0.51
3:BC:163:TYR:N	3:BC:166:ASP:OD2	2.40	0.51
3:BC:173:GLY:C	3:BC:175:GLN:H	2.18	0.51
10:BJ:2:ILE:HG12	10:BJ:3:VAL:HG23	1.92	0.51
1:CA:315:ILE:HG13	1:CA:319:GLU:HB2	1.92	0.51
1:CA:509:GLU:OE1	1:CA:579:ARG:NH2	2.42	0.51
1:CA:1272:VAL:C	9:CI:48:VAL:HG13	2.36	0.51
2:CB:906:ARG:HD2	3:CC:93:GLN:HG3	1.92	0.51
2:CB:1143:THR:HG21	2:CB:1150:LYS:N	2.25	0.51
4:CD:14:THR:OG1	4:CD:16:LEU:HB2	2.10	0.51
7:CG:29:ASP:O	7:CG:31:LYS:N	2.43	0.51
14:CN:71:PRO:HD2	14:CN:89:ILE:HD11	1.91	0.51
1:DA:456:VAL:O	1:DA:459:ALA:HB3	2.10	0.51
1:DA:602:GLY:O	1:DA:653:THR:HG22	2.10	0.51
1:DA:918:LYS:O	1:DA:923:ASN:ND2	2.40	0.51
1:DA:1184:ALA:O	1:DA:1186:GLY:N	2.43	0.51
1:DA:1217:LEU:HD13	1:DA:1573:TYR:CE1	2.40	0.51
2:DB:162:PRO:HB2	2:DB:409:TYR:OH	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:604:ILE:O	2:DB:608:LEU:HG	2.10	0.51
2:DB:848:ILE:CG1	12:DL:60:ARG:HA	2.40	0.51
3:DC:191:ILE:O	3:DC:193:LEU:HD13	2.10	0.51
7:DG:29:ASP:OD1	7:DG:29:ASP:N	2.39	0.51
8:DH:5:LEU:O	8:DH:6:PHE:HB2	2.10	0.51
9:DI:95:ASN:HB2	9:DI:113:THR:HB	1.92	0.51
12:DL:40:LEU:HD22	12:DL:44:ASP:HB3	1.91	0.51
14:DN:55:LEU:C	14:DN:56:ILE:HG13	2.34	0.51
1:EA:70:LYS:HE2	1:EA:71:PHE:CE1	2.44	0.51
2:EB:76:GLY:HA3	2:EB:77:LYS:HZ2	1.75	0.51
3:EC:150:SER:OG	3:EC:155:GLU:OE2	2.23	0.51
3:EC:188:ASP:O	3:EC:191:ILE:HG13	2.11	0.51
6:EF:100:GLN:HG2	7:EG:112:PRO:HB3	1.92	0.51
9:EI:109:THR:HG21	9:EI:122:ARG:NH1	2.25	0.51
13:EM:10:ILE:HG22	13:EM:11:GLU:H	1.74	0.51
1:FA:214:ASP:OD2	5:FE:177:ARG:NH2	2.43	0.51
1:FA:456:VAL:O	1:FA:459:ALA:HB3	2.10	0.51
1:FA:713:VAL:HG12	1:FA:714:THR:H	1.74	0.51
1:FA:1531:ASP:OD2	5:FE:11:ARG:NH1	2.43	0.51
1:FA:1553:TYR:CD1	5:FE:144:ILE:HB	2.39	0.51
3:FC:128:ASP:C	3:FC:130:ASN:H	2.19	0.51
1:AA:478:TYR:N	2:AB:1047:ARG:O	2.43	0.51
1:AA:947:LEU:HB2	1:AA:982:VAL:HG11	1.92	0.51
1:AA:1463:ASP:O	1:AA:1465:GLU:N	2.39	0.51
2:AB:851:TYR:HD1	2:AB:881:TYR:CE1	2.28	0.51
7:AG:149:ILE:HD11	7:AG:155:ALA:HB2	1.91	0.51
11:AK:118:GLN:O	11:AK:121:LEU:N	2.44	0.51
1:BA:70:LYS:HE2	1:BA:71:PHE:CE1	2.44	0.51
1:BA:1463:ASP:O	1:BA:1465:GLU:N	2.39	0.51
1:BA:1647:ASN:HD22	1:BA:1648:ASN:H	1.56	0.51
1:BA:1661:PRO:HA	7:BG:102:GLU:HA	1.92	0.51
2:BB:307:GLU:OE2	2:BB:311:ARG:NH1	2.44	0.51
2:BB:909:ARG:O	2:BB:1035:ARG:NH2	2.39	0.51
1:CA:456:VAL:HG11	2:CB:1192:MET:SD	2.49	0.51
1:CA:1031:HIS:HB2	1:CA:1182:GLY:O	2.10	0.51
1:CA:1067:GLU:C	1:CA:1069:CYS:N	2.68	0.51
1:CA:1173:LYS:O	1:CA:1177:SER:OG	2.14	0.51
1:CA:1272:VAL:HG12	1:CA:1273:THR:H	1.75	0.51
2:CB:260:PHE:HD1	2:CB:261:ARG:N	2.08	0.51
2:CB:612:LYS:N	2:CB:620:LEU:HD21	2.25	0.51
2:CB:902:SER:OG	2:CB:903:ILE:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:218:VAL:HA	7:CG:224:PRO:HA	1.92	0.51
7:CG:226:ASP:O	2:DB:434:ARG:HD3	2.10	0.51
13:CM:7:VAL:HA	14:CN:73:ASP:OD2	2.10	0.51
1:DA:492:THR:HG23	1:DA:811:SER:OG	2.10	0.51
1:DA:1661:PRO:HA	7:DG:102:GLU:HA	1.93	0.51
2:DB:132:SER:HA	2:DB:195:ILE:O	2.10	0.51
2:DB:939:SER:OG	2:DB:943:ILE:N	2.41	0.51
2:DB:962:MET:O	2:DB:965:GLU:N	2.43	0.51
2:DB:1198:TYR:CD2	2:DB:1198:TYR:N	2.78	0.51
3:DC:90:SER:OG	3:DC:91:VAL:N	2.39	0.51
8:DH:60:ALA:O	8:DH:140:ALA:HB1	2.11	0.51
14:DN:72:VAL:HG22	14:DN:137:PHE:HE1	1.74	0.51
1:EA:549:MET:SD	1:EA:553:GLN:HB2	2.50	0.51
1:EA:703:GLU:H	1:EA:703:GLU:CD	2.18	0.51
1:EA:879:LEU:HD12	1:EA:972:TYR:HB3	1.93	0.51
1:EA:920:PHE:CG	1:EA:921:PRO:HA	2.45	0.51
2:EB:611:TRP:C	2:EB:620:LEU:HD21	2.35	0.51
2:EB:903:ILE:HD13	2:EB:905:TYR:HE1	1.73	0.51
3:EC:245:ARG:N	3:EC:245:ARG:HD2	2.25	0.51
5:EE:22:MET:HA	5:EE:187:TYR:CZ	2.46	0.51
6:EF:128:LYS:NZ	6:EF:148:VAL:O	2.36	0.51
1:FA:836:THR:OG1	1:FA:837:ALA:N	2.43	0.51
1:FA:1299:ASN:HA	1:FA:1302:TYR:CE2	2.46	0.51
11:FK:58:GLY:O	11:FK:60:SER:N	2.42	0.51
13:FM:112:LYS:O	13:FM:113:ILE:HG13	2.10	0.51
14:FN:72:VAL:HG22	14:FN:137:PHE:HE1	1.76	0.51
14:FN:97:SER:HB3	14:FN:105:SER:HB3	1.92	0.51
1:AA:1585:ILE:O	1:AA:1588:MET:HB3	2.10	0.51
2:AB:205:MET:HB2	2:AB:502:MET:O	2.10	0.51
3:AC:253:PRO:HG2	14:AN:180:PHE:CG	2.46	0.51
1:BA:7:VAL:HG12	1:BA:9:SER:H	1.76	0.51
2:BB:47:GLY:HA2	2:BB:50:ASN:HD22	1.75	0.51
2:BB:1002:LYS:HZ3	14:BN:166:LEU:HD13	1.73	0.51
3:BC:88:ASN:OD1	3:BC:202:ILE:HD11	2.09	0.51
2:CB:1117:VAL:HG21	2:CB:1162:GLY:N	2.26	0.51
1:DA:1512:PRO:HB3	1:DA:1517:ARG:HA	1.93	0.51
7:DG:93:ASP:HB2	7:DG:104:LEU:HD12	1.91	0.51
10:DJ:31:ASP:OD1	10:DJ:34:THR:HB	2.10	0.51
11:DK:117:LEU:O	11:DK:121:LEU:HB2	2.10	0.51
1:EA:1095:LEU:CD2	1:EA:1134:GLY:HA3	2.40	0.51
2:EB:772:VAL:O	2:EB:946:ASP:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:858:ILE:HG12	2:EB:872:LYS:O	2.11	0.51
1:FA:189:VAL:O	1:FA:193:ILE:HG13	2.11	0.51
1:FA:203:THR:OG1	1:FA:204:GLU:N	2.42	0.51
1:FA:1240:LEU:HD11	1:FA:1529:MET:SD	2.51	0.51
1:FA:1245:ASP:OD2	1:FA:1245:ASP:N	2.38	0.51
1:FA:1251:ALA:O	1:FA:1253:THR:N	2.43	0.51
1:FA:1555:VAL:HG13	1:FA:1556:GLU:N	2.25	0.51
1:FA:1656:VAL:HG23	7:FG:107:ILE:HB	1.91	0.51
2:FB:117:VAL:HG12	2:FB:118:GLU:H	1.75	0.51
2:FB:273:VAL:HA	2:FB:276:ILE:HD13	1.92	0.51
2:FB:1198:TYR:CD2	2:FB:1198:TYR:N	2.76	0.51
3:FC:285:PHE:C	3:FC:287:ASP:H	2.19	0.51
5:FE:177:ARG:HD3	5:FE:215:MET:HB2	1.92	0.51
6:FF:97:ARG:HA	6:FF:100:GLN:HG3	1.92	0.51
7:FG:37:CYS:HB3	7:FG:125:TRP:HD1	1.74	0.51
13:FM:16:GLN:HB3	13:FM:92:LYS:H	1.74	0.51
1:AA:892:LEU:HG	1:AA:893:ASP:N	2.24	0.51
1:AA:1240:LEU:HD23	1:AA:1541:ILE:HG23	1.92	0.51
1:AA:1242:ILE:HD11	1:AA:1517:ARG:HB3	1.91	0.51
1:AA:1332:GLU:O	1:AA:1336:GLN:HG2	2.10	0.51
2:AB:555:GLN:NE2	2:AB:644:GLY:O	2.43	0.51
3:AC:228:ARG:HG3	3:AC:299:ILE:HD12	1.92	0.51
11:AK:58:GLY:C	11:AK:60:SER:N	2.67	0.51
1:BA:537:GLN:HE21	1:BA:541:GLY:HA2	1.76	0.51
1:BA:684:ASP:OD1	8:BH:20:TYR:HB3	2.11	0.51
1:BA:699:CYS:SG	1:BA:700:ILE:N	2.82	0.51
1:BA:1092:GLU:O	1:BA:1094:ALA:N	2.43	0.51
2:BB:46:ILE:HG22	2:BB:50:ASN:HD21	1.75	0.51
2:BB:903:ILE:HD12	2:BB:903:ILE:N	2.25	0.51
3:BC:209:ILE:HG12	3:BC:210:LEU:O	2.09	0.51
14:BN:71:PRO:HB2	14:BN:89:ILE:HD12	1.92	0.51
1:CA:831:ASP:OD1	1:CA:831:ASP:N	2.33	0.51
2:CB:887:LEU:O	2:CB:888:ILE:HD12	2.10	0.51
3:CC:277:ARG:HG3	3:CC:291:LEU:HD13	1.91	0.51
5:CE:22:MET:HA	5:CE:187:TYR:CZ	2.45	0.51
13:CM:16:GLN:HG3	13:CM:17:ASP:H	1.75	0.51
1:DA:188:TYR:O	1:DA:191:MET:N	2.44	0.51
1:DA:879:LEU:HD12	1:DA:972:TYR:HB3	1.92	0.51
1:DA:1202:LEU:HD22	9:DI:99:LEU:CD2	2.31	0.51
2:DB:893:ASN:ND2	2:DB:895:PHE:HD1	2.09	0.51
3:DC:199:GLY:HA3	10:DJ:66:LEU:HD22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:DI:99:LEU:HB2	9:DI:111:PHE:CZ	2.42	0.51
1:EA:752:LYS:HG3	1:EA:768:GLU:HA	1.93	0.51
1:EA:1170:MET:HA	1:EA:1173:LYS:HB3	1.93	0.51
2:EB:273:VAL:HA	2:EB:276:ILE:HD13	1.92	0.51
2:EB:586:VAL:HG22	2:EB:640:LEU:HD23	1.92	0.51
3:EC:48:ASP:CG	3:EC:49:ALA:N	2.68	0.51
5:EE:28:TYR:CE1	5:EE:78:LEU:HB3	2.45	0.51
5:EE:56:LYS:HG3	5:EE:84:ASP:OD2	2.10	0.51
7:EG:45:LEU:CD1	7:EG:118:CYS:HB2	2.40	0.51
1:FA:697:TYR:CE1	1:FA:702:PRO:HD3	2.46	0.51
1:FA:1170:MET:O	1:FA:1173:LYS:N	2.43	0.51
1:FA:1292:ILE:HD12	1:FA:1292:ILE:O	2.09	0.51
2:FB:687:THR:OG1	2:FB:688:HIS:ND1	2.43	0.51
1:AA:806:ALA:O	1:AA:809:VAL:N	2.44	0.51
1:AA:928:MET:HG2	2:AB:955:PRO:HG3	1.92	0.51
1:AA:1335:LYS:HD2	1:AA:1338:ARG:NH2	2.25	0.51
2:AB:38:LEU:HD21	2:AB:760:TYR:O	2.11	0.51
2:AB:772:VAL:HB	2:AB:946:ASP:OD2	2.10	0.51
13:AM:23:VAL:HB	13:AM:95:VAL:HG22	1.92	0.51
1:BA:533:ALA:HB2	1:BA:579:ARG:HA	1.92	0.51
1:BA:709:ARG:C	1:BA:711:LYS:H	2.15	0.51
2:BB:846:PRO:HG3	2:BB:858:ILE:O	2.09	0.51
1:CA:339:PHE:O	1:CA:1629:ASN:HB2	2.11	0.51
1:CA:379:GLU:HA	7:CO:292:HIS:CD2	2.45	0.51
1:CA:422:ARG:HA	7:CO:272:ILE:HD12	1.93	0.51
1:CA:476:VAL:HG11	2:CB:1091:ARG:O	2.11	0.51
1:CA:701:ARG:O	1:CA:704:ASP:HB2	2.09	0.51
1:CA:1271:ILE:HG23	9:CI:50:THR:HG22	1.93	0.51
2:CB:162:PRO:HB2	2:CB:409:TYR:OH	2.11	0.51
2:CB:622:ILE:H	2:CB:622:ILE:HD12	1.76	0.51
2:CB:871:ILE:HD13	2:CB:873:THR:HG22	1.93	0.51
3:CC:277:ARG:NH1	3:CC:291:LEU:HD13	2.26	0.51
3:CC:328:LEU:HD11	11:CK:65:ILE:HD11	1.93	0.51
5:CE:55:ARG:NH2	5:CE:113:GLN:OE1	2.44	0.51
12:CL:32:ALA:HB2	12:CL:57:LEU:HG	1.92	0.51
1:DA:1237:GLN:HB2	1:DA:1544:ASN:HB2	1.91	0.51
1:DA:1640:ARG:O	1:DA:1644:GLY:N	2.34	0.51
2:DB:346:ASP:OD1	13:DM:113:ILE:HG23	2.11	0.51
2:DB:359:LEU:HD22	2:DB:361:HIS:CE1	2.46	0.51
2:DB:470:LEU:HD22	2:DB:484:TYR:CE1	2.46	0.51
1:EA:395:LEU:HD13	7:EO:276:LYS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:491:GLU:OE1	1:EA:815:ARG:NH2	2.24	0.51
1:EA:607:VAL:O	1:EA:608:LEU:HD23	2.11	0.51
1:EA:1540:GLY:O	1:EA:1542:THR:N	2.40	0.51
2:EB:14:ALA:HB2	2:EB:980:ASP:CB	2.40	0.51
2:EB:211:ARG:NH2	2:EB:243:GLN:OE1	2.37	0.51
2:EB:975:HIS:NE2	2:EB:1003:ALA:HB2	2.25	0.51
2:EB:1077:ASP:O	2:EB:1080:ILE:HB	2.11	0.51
5:EE:19:VAL:O	5:EE:23:VAL:HG23	2.11	0.51
8:EH:103:LYS:HB3	8:EH:115:TYR:HB2	1.93	0.51
7:EO:301:LYS:HA	7:EO:307:GLU:HA	1.92	0.51
2:FB:401:GLU:HA	2:FB:649:MET:HE2	1.92	0.51
5:FE:28:TYR:CE1	5:FE:78:LEU:HB3	2.45	0.51
14:FN:148:ILE:HD13	14:FN:150:TYR:OH	2.10	0.51
1:AA:896:THR:O	1:AA:900:VAL:HG13	2.09	0.51
1:AA:1019:LEU:HD21	1:AA:1194:GLY:CA	2.41	0.51
1:AA:1098:SER:OG	1:AA:1141:GLN:NE2	2.44	0.51
1:AA:1263:LEU:HG	1:AA:1267:ILE:HD11	1.92	0.51
1:AA:1271:ILE:HG23	9:AI:50:THR:HG22	1.93	0.51
1:AA:1609:SER:O	1:AA:1612:LYS:HB2	2.10	0.51
2:AB:397:THR:HA	2:AB:400:GLN:OE1	2.10	0.51
3:AC:103:LEU:O	10:AJ:6:ARG:CZ	2.58	0.51
14:AN:70:LEU:O	14:AN:70:LEU:HG	2.09	0.51
14:AN:97:SER:CB	14:AN:105:SER:HB3	2.40	0.51
1:BA:372:LYS:HG2	7:BO:310:TYR:HD2	1.76	0.51
1:BA:482:SER:HB2	2:BB:1044:PHE:HB3	1.92	0.51
1:BA:507:TYR:HB2	1:BA:637:PHE:CZ	2.46	0.51
1:BA:727:THR:HG21	8:BH:119:GLY:O	2.10	0.51
1:BA:1263:LEU:HG	1:BA:1267:ILE:HD11	1.93	0.51
1:BA:1454:HIS:HB2	1:BA:1457:ILE:HG13	1.91	0.51
2:BB:501:ARG:NH2	2:BB:546:ALA:O	2.44	0.51
2:BB:790:ASN:OD1	2:BB:792:SER:N	2.44	0.51
5:BE:56:LYS:HG3	5:BE:84:ASP:OD2	2.10	0.51
13:BM:112:LYS:HG3	13:BM:113:ILE:HD12	1.92	0.51
1:CA:862:THR:HA	9:CI:67:VAL:HG12	1.92	0.51
1:CA:943:ILE:HA	1:CA:986:PHE:HB2	1.92	0.51
1:CA:1104:TYR:HE2	1:CA:1119:LYS:HD2	1.75	0.51
2:CB:72:VAL:HG11	2:CB:94:LYS:HE3	1.93	0.51
3:CC:85:PHE:HA	3:CC:204:LEU:HD13	1.93	0.51
4:CD:22:ILE:H	7:CG:76:LYS:HZ1	1.58	0.51
4:CD:44:ILE:HD13	4:CD:90:LYS:HG3	1.92	0.51
8:CH:13:SER:N	8:CH:27:GLU:O	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:778:CYS:SG	1:DA:779:GLY:N	2.83	0.51
2:DB:164:MET:HG3	2:DB:165:LEU:N	2.25	0.51
2:DB:772:VAL:O	2:DB:946:ASP:HB2	2.10	0.51
2:DB:876:SER:C	2:DB:878:GLU:H	2.19	0.51
5:DE:198:ILE:HD12	5:DE:210:SER:OG	2.11	0.51
14:DN:75:GLU:H	14:DN:91:ASP:CG	2.18	0.51
1:EA:809:VAL:HG12	1:EA:810:LEU:N	2.26	0.51
1:EA:1586:ALA:O	1:EA:1589:MET:N	2.43	0.51
2:EB:615:GLY:C	2:EB:617:THR:H	2.18	0.51
2:EB:837:LEU:HD12	1:FA:552:GLU:HB3	1.91	0.51
3:EC:59:ILE:HD11	3:EC:63:ILE:HB	1.91	0.51
3:EC:113:LEU:HD11	3:EC:130:ASN:C	2.36	0.51
1:FA:20:THR:HG23	1:FA:23:GLU:HG3	1.93	0.51
1:FA:342:ARG:CZ	1:FA:342:ARG:HB2	2.39	0.51
2:FB:627:GLY:H	2:FB:642:LEU:HD22	1.75	0.51
2:FB:876:SER:O	2:FB:878:GLU:N	2.34	0.51
3:FC:90:SER:OG	3:FC:91:VAL:N	2.43	0.51
5:FE:198:ILE:HD12	5:FE:210:SER:OG	2.10	0.51
8:FH:97:MET:HB3	8:FH:118:PHE:CD1	2.46	0.51
9:FI:23:VAL:HG21	9:FI:28:VAL:HG13	1.91	0.51
13:FM:89:GLN:O	13:FM:90:LEU:HD23	2.10	0.51
1:AA:406:LEU:HB3	7:AO:266:GLN:HB3	1.92	0.51
1:AA:1559:ARG:O	1:AA:1563:VAL:HG23	2.11	0.51
2:AB:501:ARG:NH2	2:AB:546:ALA:O	2.44	0.51
3:AC:224:THR:HB	10:AJ:10:CYS:HB2	1.93	0.51
8:AH:35:GLN:O	8:AH:127:GLY:HA2	2.11	0.51
10:AJ:18:TRP:O	10:AJ:22:LEU:HG	2.11	0.51
1:BA:136:LEU:HD13	1:BA:189:VAL:HG23	1.93	0.51
1:BA:426:ALA:O	1:BA:430:ILE:HG22	2.11	0.51
1:BA:1117:SER:C	1:BA:1119:LYS:H	2.19	0.51
2:BB:1157:GLN:HB3	2:BB:1168:VAL:HG12	1.92	0.51
3:BC:316:LYS:O	3:BC:320:ILE:N	2.43	0.51
7:BG:29:ASP:O	7:BG:31:LYS:N	2.43	0.51
12:BL:31:CYS:HA	12:BL:56:LEU:HD23	1.93	0.51
1:CA:497:VAL:HG23	1:CA:606:ARG:O	2.11	0.51
1:CA:669:LEU:H	1:CA:787:GLY:HA2	1.75	0.51
1:CA:1085:LEU:HD13	6:CF:84:TYR:OH	2.11	0.51
2:CB:72:VAL:HG13	2:CB:95:LEU:O	2.10	0.51
3:CC:227:TYR:HA	3:CC:299:ILE:O	2.11	0.51
8:CH:7:ASP:HB2	8:CH:57:VAL:O	2.09	0.51
8:CH:57:VAL:HG13	8:CH:144:ILE:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1457:ILE:HA	1:DA:1474:LEU:CD2	2.40	0.51
1:DA:1485:MET:O	1:DA:1489:VAL:HG23	2.10	0.51
1:DA:1589:MET:HE2	1:DA:1598:PHE:CE1	2.46	0.51
5:DE:143:ASN:O	5:DE:145:THR:N	2.44	0.51
10:DJ:54:VAL:C	10:DJ:56:LEU:H	2.19	0.51
1:EA:892:LEU:HG	1:EA:893:ASP:OD1	2.11	0.51
1:EA:1007:ILE:CG2	2:EB:515:THR:HG22	2.40	0.51
1:EA:1193:VAL:O	1:EA:1196:PRO:HD2	2.10	0.51
1:EA:1477:ALA:O	1:EA:1480:THR:OG1	2.29	0.51
1:EA:1579:PHE:HA	1:EA:1582:LEU:HG	1.91	0.51
1:FA:1580:ARG:NH2	5:FE:204:THR:HG23	2.26	0.51
1:FA:1601:GLN:C	1:FA:1603:MET:N	2.69	0.51
2:FB:36:PRO:O	2:FB:39:GLN:HG3	2.11	0.51
2:FB:744:LEU:HD12	2:FB:745:GLN:H	1.76	0.51
1:AA:20:THR:HG23	1:AA:23:GLU:HG3	1.92	0.51
1:AA:719:ILE:HG22	1:AA:725:LEU:H	1.76	0.51
1:AA:862:THR:HA	9:AI:67:VAL:HG12	1.93	0.51
2:AB:1018:THR:HB	2:AB:1020:GLU:OE1	2.09	0.51
3:AC:134:LEU:HD23	3:AC:169:PHE:HA	1.93	0.51
3:AC:173:GLY:C	3:AC:175:GLN:H	2.19	0.51
3:AC:316:LYS:O	3:AC:320:ILE:N	2.37	0.51
14:AN:72:VAL:HG22	14:AN:137:PHE:HE1	1.76	0.51
1:BA:893:ASP:OD2	1:BA:956:ARG:N	2.37	0.51
2:BB:1060:VAL:HG21	7:BO:311:GLU:OE1	2.10	0.51
2:BB:1083:GLY:HA3	6:BF:88:TYR:HE1	1.76	0.51
1:CA:907:VAL:HG12	1:CA:945:CYS:SG	2.49	0.51
1:CA:1105:ARG:NH2	1:CA:1138:GLU:OE2	2.43	0.51
2:CB:703:LEU:HD23	2:CB:754:ALA:HB3	1.92	0.51
1:DA:315:ILE:HG13	1:DA:319:GLU:HB2	1.92	0.51
2:DB:59:GLY:O	2:DB:62:ASN:N	2.44	0.51
7:DO:312:GLU:O	7:DO:314:THR:N	2.44	0.51
1:EA:692:TYR:O	1:EA:696:ILE:HG12	2.11	0.51
1:EA:862:THR:HA	9:EI:67:VAL:HG12	1.92	0.51
1:EA:964:LYS:NZ	1:EA:967:PRO:HA	2.25	0.51
1:EA:1332:GLU:O	1:EA:1336:GLN:HG2	2.11	0.51
2:EB:72:VAL:HG13	2:EB:95:LEU:O	2.11	0.51
2:EB:572:PRO:HG2	13:EM:70:SER:HB2	1.91	0.51
2:EB:1044:PHE:O	2:EB:1045:GLN:HB3	2.10	0.51
7:EG:159:LYS:NZ	7:FO:279:VAL:HG23	2.25	0.51
14:EN:57:LYS:HD3	14:EN:138:SER:OG	2.11	0.51
1:FA:507:TYR:HB3	1:FA:579:ARG:HH12	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:794:VAL:HG23	1:FA:795:HIS:N	2.21	0.51
1:FA:892:LEU:O	1:FA:896:THR:OG1	2.29	0.51
1:FA:1244:ASN:HA	1:FA:1517:ARG:HH11	1.76	0.51
1:FA:1272:VAL:HG23	9:FI:49:THR:O	2.11	0.51
2:FB:210:ARG:HH22	2:FB:625:GLU:CD	2.19	0.51
3:FC:216:HIS:ND1	3:FC:218:LYS:HD2	2.25	0.51
5:FE:153:HIS:N	5:FE:153:HIS:HD1	2.09	0.51
3:AC:95:GLU:HG2	3:AC:96:VAL:N	2.25	0.51
13:AM:23:VAL:HG13	14:AN:108:THR:O	2.11	0.51
14:AN:37:ASN:HD22	14:AN:38:PHE:H	1.58	0.51
1:BA:874:GLU:O	1:BA:878:ARG:HB2	2.10	0.51
2:BB:380:LYS:HE3	2:BB:637:TYR:HB3	1.92	0.51
2:BB:1093:LEU:HD11	2:BB:1179:PRO:HB3	1.93	0.51
1:CA:1601:GLN:O	1:CA:1603:MET:N	2.36	0.51
2:CB:887:LEU:O	2:CB:887:LEU:HD22	2.10	0.51
3:CC:48:ASP:CG	3:CC:49:ALA:N	2.69	0.51
9:CI:2:SER:HB2	9:CI:11:LEU:HD21	1.93	0.51
1:DA:491:GLU:CD	1:DA:815:ARG:HH21	2.15	0.51
1:DA:507:TYR:HB2	1:DA:637:PHE:CZ	2.46	0.51
1:DA:603:HIS:HE2	1:DA:624:TYR:HH	1.59	0.51
1:DA:1105:ARG:HH22	1:DA:1138:GLU:CD	2.18	0.51
1:DA:1291:VAL:HA	1:DA:1473:LYS:HB2	1.92	0.51
2:DB:428:VAL:O	2:DB:432:ILE:HD12	2.11	0.51
7:DG:80:VAL:O	7:DG:124:VAL:HG13	2.10	0.51
9:DI:2:SER:HA	9:DI:9:PHE:O	2.10	0.51
1:EA:536:ILE:HG12	1:EA:577:VAL:HG22	1.92	0.51
1:EA:1105:ARG:NH1	1:EA:1138:GLU:OE1	2.42	0.51
1:EA:1440:ASN:C	1:EA:1442:VAL:H	2.18	0.51
3:EC:303:GLU:OE1	10:EJ:43:ARG:NH2	2.44	0.51
8:EH:7:ASP:HB2	8:EH:57:VAL:O	2.10	0.51
1:FA:585:ASP:OD1	1:FA:644:ARG:NH1	2.43	0.51
1:FA:689:ARG:HD2	8:FH:81:PRO:HG3	1.92	0.51
1:FA:888:LYS:HG2	9:FI:67:VAL:HG21	1.91	0.51
1:FA:1262:LEU:HD12	1:FA:1264:SER:HG	1.76	0.51
3:FC:218:LYS:HZ2	12:FL:69:ALA:HB3	1.76	0.51
7:FG:67:ASN:O	7:FG:70:VAL:HG23	2.11	0.51
7:FG:100:THR:O	7:FG:102:GLU:N	2.44	0.51
1:AA:753:ASN:ND2	1:AA:767:ASN:O	2.44	0.51
1:AA:1612:LYS:HB3	1:AA:1621:PHE:CG	2.46	0.51
1:AA:1647:ASN:HD22	1:AA:1648:ASN:N	2.09	0.51
2:AB:52:LEU:HB3	2:AB:61:LEU:CD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:244:THR:O	2:AB:244:THR:OG1	2.29	0.51
1:BA:928:MET:HG2	2:BB:955:PRO:HG3	1.92	0.51
1:BA:1586:ALA:O	1:BA:1589:MET:N	2.44	0.51
2:BB:14:ALA:HB2	2:BB:980:ASP:CB	2.41	0.51
11:BK:58:GLY:C	11:BK:60:SER:N	2.69	0.51
13:BM:16:GLN:HG3	13:BM:17:ASP:H	1.74	0.51
14:BN:75:GLU:H	14:BN:91:ASP:CB	2.24	0.51
7:BO:307:GLU:O	7:BO:309:VAL:N	2.41	0.51
1:CA:521:GLN:O	1:CA:524:ILE:HB	2.10	0.51
1:CA:1263:LEU:HA	1:CA:1498:ILE:HD11	1.93	0.51
2:CB:559:SER:C	2:CB:561:ILE:H	2.19	0.51
2:CB:1180:PHE:O	2:CB:1182:LEU:N	2.44	0.51
3:CC:201:GLU:C	3:CC:202:ILE:HD12	2.36	0.51
7:CO:274:SER:OG	7:CO:275:ASN:N	2.43	0.51
1:DA:214:ASP:OD2	5:DE:177:ARG:NH2	2.44	0.51
2:DB:164:MET:HE2	2:DB:193:TYR:O	2.11	0.51
2:DB:656:LEU:HG	2:DB:687:THR:O	2.11	0.51
2:DB:915:ASP:OD1	2:DB:1038:HIS:ND1	2.43	0.51
7:DG:158:LYS:O	7:DG:162:ILE:HG13	2.11	0.51
13:DM:58:GLU:HG2	13:DM:59:ARG:N	2.25	0.51
1:EA:785:GLN:O	1:EA:794:VAL:HG22	2.11	0.51
1:EA:850:SER:O	1:EA:853:THR:N	2.37	0.51
1:EA:976:ALA:HB1	1:EA:981:TYR:HB3	1.93	0.51
1:EA:1200:MET:HE1	1:EA:1569:VAL:HG12	1.93	0.51
5:EE:33:GLU:O	5:EE:36:GLU:N	2.44	0.51
1:FA:113:VAL:HG22	1:FA:182:LYS:NZ	2.25	0.51
1:FA:457:LYS:C	1:FA:459:ALA:N	2.67	0.51
1:FA:519:LEU:HD13	1:FA:577:VAL:HB	1.92	0.51
4:FD:94:ARG:HD2	4:FD:99:LEU:HD13	1.92	0.51
5:FE:26:ARG:NH2	5:FE:133:GLU:OE1	2.42	0.51
5:FE:157:SER:OG	5:FE:160:GLU:HG3	2.09	0.51
7:FG:166:TRP:CE2	7:FG:219:ASP:HB2	2.45	0.51
11:FK:118:GLN:O	11:FK:121:LEU:N	2.43	0.51
14:FN:70:LEU:O	14:FN:70:LEU:HG	2.09	0.51
7:FO:301:LYS:NZ	7:FO:307:GLU:OE1	2.40	0.51
1:AA:701:ARG:O	1:AA:704:ASP:HB2	2.12	0.50
1:AA:783:LYS:HE3	1:AA:932:GLY:HA3	1.93	0.50
1:AA:794:VAL:HG23	1:AA:795:HIS:N	2.22	0.50
2:AB:898:LEU:HD13	12:AL:46:VAL:HG11	1.93	0.50
3:AC:69:ARG:HD3	11:AK:71:THR:OG1	2.10	0.50
1:CA:20:THR:HG23	1:CA:23:GLU:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:122:LEU:O	1:CA:126:GLN:HG3	2.11	0.50
1:CA:1490:GLU:O	1:CA:1493:CYS:HB2	2.11	0.50
2:CB:94:LYS:O	2:CB:146:ASN:N	2.20	0.50
3:CC:95:GLU:HG2	3:CC:96:VAL:N	2.27	0.50
7:CG:29:ASP:OD1	7:CG:29:ASP:N	2.40	0.50
7:CG:50:ALA:HA	7:CG:113:PHE:CE2	2.46	0.50
1:DA:505:LEU:HD13	1:DA:637:PHE:HB2	1.93	0.50
1:DA:1019:LEU:HD21	1:DA:1194:GLY:CA	2.41	0.50
1:DA:1555:VAL:HG13	1:DA:1556:GLU:N	2.26	0.50
2:DB:532:HIS:ND1	2:DB:700:LEU:HD13	2.26	0.50
2:DB:753:LYS:O	2:DB:981:SER:OG	2.12	0.50
2:DB:1037:ARG:O	2:DB:1039:MET:N	2.43	0.50
1:EA:460:LEU:O	1:EA:466:LEU:HB3	2.11	0.50
1:EA:597:LYS:HB2	2:EB:1082:HIS:NE2	2.26	0.50
1:EA:722:PRO:HD2	8:EH:46:LEU:HD13	1.92	0.50
1:EA:1056:ASP:OD1	1:EA:1057:ILE:N	2.44	0.50
2:EB:35:PHE:O	2:EB:38:LEU:HD23	2.11	0.50
2:EB:302:LEU:HD11	2:EB:379:ARG:CZ	2.40	0.50
2:EB:662:ASP:O	2:EB:663:ILE:HB	2.10	0.50
1:FA:1342:PRO:HD2	2:FB:272:PRO:HG3	1.91	0.50
1:FA:1450:ILE:O	1:FA:1454:HIS:ND1	2.39	0.50
2:FB:210:ARG:NH2	2:FB:625:GLU:OE1	2.44	0.50
2:FB:1000:LEU:HD13	2:FB:1009:GLY:HA2	1.92	0.50
1:AA:697:TYR:HE1	1:AA:702:PRO:CD	2.23	0.50
1:AA:1589:MET:O	1:AA:1596:LEU:HB2	2.10	0.50
2:AB:210:ARG:HB2	2:AB:399:HIS:C	2.36	0.50
2:AB:326:VAL:O	2:AB:330:LEU:HG	2.11	0.50
2:AB:876:SER:O	2:AB:878:GLU:N	2.37	0.50
2:AB:887:LEU:HB3	2:AB:901:VAL:HG13	1.92	0.50
2:AB:904:LYS:C	2:AB:905:TYR:CD1	2.88	0.50
3:AC:100:ARG:HH12	3:AC:193:LEU:CA	2.23	0.50
9:AI:10:CYS:HB3	9:AI:13:CYS:SG	2.51	0.50
13:AM:10:ILE:HG22	13:AM:11:GLU:N	2.25	0.50
14:AN:55:LEU:C	14:AN:56:ILE:HG13	2.36	0.50
1:BA:39:ASP:OD2	1:BA:43:HIS:HB2	2.11	0.50
1:BA:591:ARG:HB2	1:BA:633:MET:HG2	1.93	0.50
1:BA:1263:LEU:HA	1:BA:1498:ILE:HD11	1.93	0.50
2:BB:572:PRO:HG2	13:BM:70:SER:HB2	1.93	0.50
2:BB:644:GLY:HA2	2:BB:648:ARG:CZ	2.41	0.50
2:BB:744:LEU:HD12	2:BB:745:GLN:H	1.76	0.50
2:BB:775:VAL:H	2:BB:1028:VAL:HG12	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:776:ILE:HD12	2:BB:777:SER:H	1.75	0.50
14:BN:149:ASP:O	14:BN:153:VAL:HG12	2.12	0.50
1:CA:727:THR:OG1	1:CA:728:GLY:N	2.43	0.50
1:CA:1104:TYR:CE2	1:CA:1119:LYS:HD2	2.45	0.50
1:CA:1218:GLY:O	1:CA:1222:LEU:HD22	2.11	0.50
1:CA:1344:ILE:CD1	1:CA:1344:ILE:H	2.23	0.50
2:CB:974:LEU:O	10:CJ:47:ARG:NH1	2.44	0.50
3:CC:310:PRO:O	3:CC:313:ILE:N	2.44	0.50
5:CE:33:GLU:O	5:CE:36:GLU:N	2.44	0.50
5:CE:157:SER:OG	5:CE:160:GLU:HG3	2.11	0.50
1:DA:76:GLN:NE2	2:DB:1111:LEU:HD12	2.17	0.50
1:DA:943:ILE:HA	1:DA:986:PHE:HB2	1.94	0.50
1:DA:1142:ASP:O	1:DA:1145:GLU:N	2.45	0.50
1:DA:1247:SER:OG	1:DA:1248:ASP:N	2.43	0.50
2:DB:975:HIS:NE2	2:DB:1003:ALA:HB2	2.26	0.50
10:DJ:18:TRP:O	10:DJ:22:LEU:HG	2.10	0.50
13:DM:77:VAL:HG21	14:DN:64:ILE:HD12	1.92	0.50
1:EA:9:SER:OG	4:ED:20:VAL:HG21	2.11	0.50
1:EA:239:PHE:CG	1:EA:260:GLN:HG2	2.46	0.50
1:EA:1472:PHE:O	1:EA:1473:LYS:HB3	2.11	0.50
1:EA:1640:ARG:O	1:EA:1644:GLY:N	2.40	0.50
2:EB:117:VAL:HG12	2:EB:118:GLU:H	1.76	0.50
2:EB:138:LEU:O	2:EB:139:LEU:HD23	2.12	0.50
2:EB:290:ASP:O	2:EB:292:ILE:N	2.44	0.50
5:EE:55:ARG:NH2	5:EE:113:GLN:OE1	2.44	0.50
5:EE:143:ASN:O	5:EE:145:THR:N	2.44	0.50
1:FA:91:PHE:CD2	1:FA:249:THR:HG22	2.46	0.50
1:FA:920:PHE:CG	1:FA:921:PRO:HA	2.47	0.50
1:FA:985:ARG:HG2	1:FA:988:SER:H	1.76	0.50
2:FB:972:GLY:CA	2:FB:977:ILE:HG22	2.40	0.50
2:FB:1153:ILE:HD12	2:FB:1154:ASP:H	1.75	0.50
3:FC:227:TYR:HA	3:FC:299:ILE:O	2.11	0.50
7:FG:229:LEU:HD12	7:FG:230:ARG:H	1.76	0.50
11:FK:51:THR:O	11:FK:54:THR:OG1	2.27	0.50
1:AA:23:GLU:OE1	2:AB:1195:ARG:NH1	2.44	0.50
1:AA:52:LEU:C	1:AA:54:LEU:H	2.18	0.50
1:AA:1028:GLU:OE1	1:AA:1638:SER:HB2	2.11	0.50
2:AB:549:CYS:H	2:AB:550:ARG:NH1	2.09	0.50
2:AB:834:LYS:HB2	1:BA:553:GLN:NE2	2.26	0.50
1:BA:472:MET:SD	1:BA:1025:LYS:NZ	2.70	0.50
1:BA:678:VAL:HG22	1:BA:781:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:706:HIS:NE2	1:BA:739:VAL:O	2.41	0.50
1:BA:993:GLN:CD	2:BB:676:VAL:HG21	2.37	0.50
1:BA:1556:GLU:O	1:BA:1559:ARG:HB3	2.12	0.50
1:BA:1601:GLN:O	1:BA:1603:MET:N	2.38	0.50
2:BB:876:SER:O	2:BB:878:GLU:N	2.36	0.50
2:BB:983:PRO:HB2	2:BB:984:TRP:CE3	2.46	0.50
1:CA:136:LEU:HD13	1:CA:189:VAL:HG23	1.93	0.50
1:CA:209:THR:HG21	5:CE:174:GLN:HG3	1.93	0.50
1:CA:470:HIS:NE2	7:CO:314:THR:C	2.70	0.50
1:CA:1440:ASN:C	1:CA:1442:VAL:H	2.18	0.50
1:CA:1647:ASN:HD22	1:CA:1648:ASN:H	1.58	0.50
2:CB:1160:GLU:HG2	2:CB:1166:LYS:HG2	1.94	0.50
8:CH:5:LEU:CB	8:CH:60:ALA:HA	2.37	0.50
8:CH:116:TYR:HB2	8:CH:123:MET:SD	2.51	0.50
11:CK:90:GLY:O	11:CK:103:ILE:HD13	2.11	0.50
12:CL:63:ARG:HG2	12:CL:64:LEU:N	2.23	0.50
1:DA:480:ALA:HB2	2:DB:1046:VAL:HA	1.92	0.50
1:DA:692:TYR:O	1:DA:696:ILE:HG12	2.11	0.50
2:DB:904:LYS:C	2:DB:905:TYR:CD1	2.87	0.50
5:DE:133:GLU:HB3	5:DE:135:PHE:CE1	2.43	0.50
6:DF:119:ARG:HA	6:DF:122:MET:HG3	1.93	0.50
12:DL:38:LEU:HD12	12:DL:49:LYS:HD3	1.92	0.50
1:EA:126:GLN:NE2	1:EA:340:HIS:O	2.43	0.50
1:EA:521:GLN:O	1:EA:524:ILE:HB	2.11	0.50
1:EA:794:VAL:HG23	1:EA:795:HIS:N	2.20	0.50
1:EA:1104:TYR:CE2	1:EA:1119:LYS:HD2	2.46	0.50
1:EA:1217:LEU:HD11	1:EA:1572:ARG:CD	2.41	0.50
2:EB:72:VAL:HA	2:EB:95:LEU:O	2.11	0.50
2:EB:181:VAL:HG22	10:EJ:63:TYR:OH	2.11	0.50
2:EB:789:ILE:HD11	2:EB:947:ILE:HG12	1.93	0.50
2:EB:998:GLU:O	2:EB:1001:ALA:N	2.45	0.50
2:EB:1178:ILE:HD12	2:EB:1182:LEU:HB3	1.92	0.50
3:EC:81:GLU:OE1	3:EC:81:GLU:HA	2.11	0.50
3:EC:112:MET:HE1	3:EC:182:CYS:SG	2.52	0.50
4:ED:22:ILE:CD1	7:EG:45:LEU:HA	2.41	0.50
1:FA:1057:ILE:H	1:FA:1057:ILE:HD12	1.76	0.50
1:FA:1555:VAL:CG1	5:FE:178:ILE:HD13	2.42	0.50
3:FC:66:ALA:O	3:FC:70:ILE:HG13	2.11	0.50
9:FI:20:PRO:C	9:FI:22:ALA:H	2.19	0.50
12:FL:30:ILE:HD12	12:FL:59:ALA:HB2	1.94	0.50
1:AA:521:GLN:O	1:AA:524:ILE:HB	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:697:TYR:HE1	1:AA:702:PRO:HD3	1.77	0.50
1:AA:830:MET:HE3	2:AB:967:LEU:HD11	1.93	0.50
1:AA:936:SER:O	1:AA:940:VAL:HG23	2.11	0.50
3:AC:150:SER:OG	3:AC:155:GLU:OE2	2.17	0.50
4:AD:22:ILE:CD1	7:AG:45:LEU:HA	2.42	0.50
9:AI:23:VAL:HG21	9:AI:28:VAL:HG13	1.93	0.50
9:AI:65:SER:OG	9:AI:66:VAL:N	2.45	0.50
1:BA:778:CYS:SG	1:BA:779:GLY:N	2.85	0.50
1:BA:804:GLU:CD	1:BA:804:GLU:H	2.15	0.50
1:BA:960:MET:O	1:BA:963:GLY:N	2.37	0.50
3:BC:66:ALA:O	3:BC:70:ILE:HG13	2.12	0.50
7:BG:80:VAL:HG12	7:BG:82:LEU:HD23	1.92	0.50
12:BL:30:ILE:O	12:BL:57:LEU:HD12	2.10	0.50
1:CA:429:THR:HG21	7:CO:274:SER:HB3	1.93	0.50
1:CA:505:LEU:HD13	1:CA:637:PHE:HB2	1.93	0.50
1:CA:618:TYR:HB3	1:CA:670:ILE:CD1	2.39	0.50
1:CA:753:ASN:OD1	1:CA:755:ILE:N	2.45	0.50
2:CB:178:TYR:O	2:CB:182:GLN:HG2	2.12	0.50
2:CB:215:MET:O	2:CB:234:ILE:HD13	2.11	0.50
2:CB:380:LYS:HE3	2:CB:637:TYR:CB	2.41	0.50
5:CE:177:ARG:HD3	5:CE:215:MET:HB2	1.93	0.50
8:CH:33:GLN:HG3	8:CH:131:ASN:HD21	1.76	0.50
11:CK:83:ASN:HB3	11:CK:86:VAL:HG23	1.93	0.50
13:CM:78:VAL:HG23	14:CN:55:LEU:HD13	1.93	0.50
1:DA:674:ILE:O	1:DA:678:VAL:HG23	2.12	0.50
2:DB:73:ILE:HG13	2:DB:429:ARG:NH2	2.25	0.50
2:DB:302:LEU:HD11	2:DB:379:ARG:CZ	2.41	0.50
2:DB:425:ILE:HG22	2:DB:426:ALA:N	2.26	0.50
2:DB:874:TYR:CZ	2:DB:876:SER:HB2	2.47	0.50
7:DG:155:ALA:HA	7:DG:245:VAL:HB	1.94	0.50
11:DK:90:GLY:O	11:DK:103:ILE:HD13	2.11	0.50
7:DO:266:GLN:O	7:DO:269:SER:N	2.35	0.50
1:EA:1057:ILE:HD12	1:EA:1057:ILE:H	1.76	0.50
1:EA:1314:GLN:O	1:EA:1318:SER:HB3	2.11	0.50
1:EA:1447:GLN:NE2	1:EA:1459:LYS:HG2	2.26	0.50
6:EF:67:LYS:O	6:EF:71:GLU:HG3	2.11	0.50
1:FA:470:HIS:O	2:FB:1058:GLN:NE2	2.43	0.50
1:FA:492:THR:HG23	1:FA:811:SER:OG	2.11	0.50
1:FA:659:THR:HG22	1:FA:666:VAL:HG22	1.93	0.50
1:FA:1291:VAL:HA	1:FA:1473:LYS:HB2	1.93	0.50
1:FA:1457:ILE:HA	1:FA:1474:LEU:CD2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1562:ILE:O	1:FA:1566:ILE:HG13	2.11	0.50
2:FB:290:ASP:OD1	13:FM:28:LYS:HE2	2.12	0.50
3:FC:223:SER:HB2	3:FC:303:GLU:HB3	1.92	0.50
3:FC:230:LEU:O	3:FC:294:VAL:HG23	2.11	0.50
7:FG:139:ILE:CD1	7:FG:140:GLN:H	2.24	0.50
11:FK:61:ALA:O	11:FK:104:ARG:HD2	2.12	0.50
1:AA:36:THR:HG22	1:AA:37:VAL:N	2.27	0.50
1:AA:680:LEU:HD12	1:AA:820:TYR:CD1	2.46	0.50
1:AA:934:LYS:HE2	2:AB:956:SER:OG	2.12	0.50
1:AA:1005:GLY:HA3	9:AI:100:GLN:O	2.11	0.50
1:AA:1291:VAL:HG22	1:AA:1473:LYS:CD	2.42	0.50
1:AA:1555:VAL:HG11	5:AE:178:ILE:HD13	1.93	0.50
1:AA:1656:VAL:HG23	7:AG:107:ILE:HB	1.94	0.50
2:AB:625:GLU:HB2	2:AB:643:PHE:O	2.12	0.50
11:AK:46:LYS:HE3	11:AK:66:VAL:O	2.11	0.50
13:AM:89:GLN:O	13:AM:90:LEU:HD23	2.11	0.50
1:BA:425:ASN:OD1	7:BO:272:ILE:HG13	2.11	0.50
1:BA:892:LEU:HG	1:BA:893:ASP:N	2.26	0.50
1:BA:1058:THR:C	1:BA:1060:GLU:H	2.20	0.50
1:BA:1252:ASP:HA	1:BA:1255:CYS:SG	2.52	0.50
7:BG:29:ASP:OD1	7:BG:29:ASP:N	2.36	0.50
7:BG:105:ILE:HG12	7:BG:116:THR:CB	2.41	0.50
2:CB:420:TYR:CE1	2:CB:424:ILE:HD11	2.47	0.50
2:CB:843:ASP:OD1	2:CB:845:LEU:HG	2.12	0.50
3:CC:75:VAL:HG12	3:CC:308:MET:HE1	1.94	0.50
3:CC:97:LEU:O	3:CC:100:ARG:HB2	2.12	0.50
3:CC:253:PRO:CG	14:CN:180:PHE:CD1	2.94	0.50
1:DA:795:HIS:O	1:DA:798:HIS:HB3	2.12	0.50
2:DB:138:LEU:O	2:DB:139:LEU:HD23	2.11	0.50
2:DB:559:SER:C	2:DB:561:ILE:H	2.20	0.50
1:EA:127:TYR:HD1	1:EA:202:THR:HG21	1.77	0.50
1:EA:416:ARG:O	1:EA:419:ILE:HB	2.11	0.50
1:EA:1105:ARG:HH12	1:EA:1138:GLU:CD	2.19	0.50
1:EA:1218:GLY:O	1:EA:1222:LEU:HD22	2.11	0.50
10:EJ:48:ARG:HB3	10:EJ:48:ARG:HH11	1.76	0.50
12:EL:32:ALA:HB3	12:EL:55:ILE:HG13	1.94	0.50
7:EO:290:GLU:C	7:EO:292:HIS:N	2.65	0.50
1:FA:127:TYR:HD1	1:FA:202:THR:HG21	1.76	0.50
1:FA:701:ARG:O	1:FA:704:ASP:HB2	2.12	0.50
1:FA:753:ASN:OD1	1:FA:755:ILE:N	2.43	0.50
1:FA:1073:TYR:CE1	1:FA:1077:LEU:HD22	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1242:ILE:CD1	1:FA:1517:ARG:HB3	2.42	0.50
1:FA:1263:LEU:C	1:FA:1265:GLU:N	2.70	0.50
1:FA:1559:ARG:NH2	5:FE:200:ARG:HD3	2.26	0.50
2:FB:615:GLY:C	2:FB:617:THR:H	2.20	0.50
2:FB:841:ASP:HB3	2:FB:843:ASP:OD1	2.11	0.50
1:AA:1144:LEU:O	1:AA:1148:LEU:HB2	2.11	0.50
1:AA:1202:LEU:HD22	9:AI:99:LEU:HD22	1.92	0.50
1:AA:1596:LEU:HD22	1:AA:1602:GLY:HA2	1.92	0.50
2:AB:277:LEU:HG	2:AB:374:LEU:HD21	1.92	0.50
2:AB:733:LEU:HD22	10:AJ:60:PHE:HE2	1.77	0.50
2:AB:748:GLN:HB3	10:AJ:52:THR:O	2.12	0.50
2:AB:843:ASP:HB2	2:AB:845:LEU:HD21	1.93	0.50
12:AL:32:ALA:HB3	12:AL:55:ILE:HG13	1.93	0.50
1:BA:468:ARG:HD2	1:BA:1021:ARG:NH1	2.26	0.50
1:BA:507:TYR:HB3	1:BA:579:ARG:HH12	1.74	0.50
1:BA:1620:GLN:O	1:BA:1623:THR:N	2.45	0.50
2:BB:210:ARG:HH22	2:BB:625:GLU:CD	2.20	0.50
2:BB:1198:TYR:H	2:BB:1198:TYR:HD2	1.53	0.50
14:BN:64:ILE:C	14:BN:66:LYS:H	2.20	0.50
1:CA:713:VAL:HG12	1:CA:714:THR:H	1.77	0.50
1:CA:1326:GLU:HG2	1:CA:1456:PHE:HD2	1.76	0.50
2:CB:703:LEU:HD21	2:CB:757:TYR:HD2	1.76	0.50
2:CB:895:PHE:O	2:CB:896:GLN:C	2.54	0.50
2:CB:898:LEU:HD22	12:CL:46:VAL:HG22	1.93	0.50
3:CC:55:ASP:C	3:CC:56:LEU:HD23	2.36	0.50
3:CC:80:ALA:HA	3:CC:208:CYS:HB3	1.92	0.50
5:CE:72:PHE:CZ	5:CE:155:ARG:HG2	2.47	0.50
7:CG:93:ASP:HB2	7:CG:104:LEU:HD12	1.92	0.50
7:CG:235:ASN:HB3	7:CG:246:ASP:HB3	1.94	0.50
1:DA:536:ILE:HG12	1:DA:577:VAL:HG22	1.94	0.50
1:DA:927:ALA:O	1:DA:931:SER:OG	2.14	0.50
1:DA:1144:LEU:O	1:DA:1148:LEU:HB2	2.11	0.50
2:DB:38:LEU:HD22	2:DB:38:LEU:H	1.77	0.50
2:DB:72:VAL:HA	2:DB:95:LEU:O	2.12	0.50
2:DB:203:ILE:CD1	2:DB:203:ILE:H	2.18	0.50
2:DB:277:LEU:HG	2:DB:374:LEU:HD21	1.93	0.50
2:DB:774:ALA:HA	2:DB:1028:VAL:CG1	2.40	0.50
13:DM:85:LYS:C	13:DM:87:SER:H	2.20	0.50
1:EA:519:LEU:O	1:EA:523:VAL:HG23	2.12	0.50
1:EA:854:GLY:O	1:EA:974:THR:HB	2.11	0.50
1:EA:885:ASP:O	1:EA:889:SER:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1276:THR:HG23	1:EA:1288:ARG:NH1	2.27	0.50
5:EE:32:GLN:O	5:EE:35:VAL:HB	2.12	0.50
1:FA:339:PHE:O	1:FA:1629:ASN:HB2	2.11	0.50
1:FA:1196:PRO:C	1:FA:1198:THR:H	2.18	0.50
2:FB:14:ALA:HB2	2:FB:980:ASP:CB	2.42	0.50
2:FB:250:LEU:HD11	2:FB:378:ILE:HD13	1.93	0.50
2:FB:260:PHE:CD1	2:FB:260:PHE:C	2.90	0.50
2:FB:526:GLY:HA2	2:FB:696:ILE:HG22	1.93	0.50
2:FB:848:ILE:HD11	12:FL:58:LYS:CD	2.38	0.50
5:FE:64:PRO:HG2	5:FE:75:MET:HB3	1.94	0.50
1:AA:1559:ARG:NH2	5:AE:200:ARG:HD3	2.27	0.50
6:AF:100:GLN:HG2	7:AG:112:PRO:HB3	1.94	0.50
1:BA:1144:LEU:O	1:BA:1148:LEU:HB2	2.12	0.50
1:BA:1540:GLY:HA2	5:BE:148:GLU:CD	2.37	0.50
2:BB:38:LEU:HD21	2:BB:760:TYR:O	2.12	0.50
2:BB:260:PHE:CD2	2:BB:276:ILE:HG12	2.47	0.50
7:BG:41:VAL:O	7:BG:122:LEU:HB2	2.12	0.50
9:BI:2:SER:O	9:BI:9:PHE:N	2.40	0.50
10:BJ:16:ASP:C	10:BJ:18:TRP:H	2.19	0.50
7:BO:291:SER:HA	7:BO:294:GLU:OE2	2.12	0.50
1:CA:239:PHE:CG	1:CA:260:GLN:HG2	2.47	0.50
3:CC:160:ALA:HA	3:CC:196:LEU:HD12	1.94	0.50
3:CC:216:HIS:ND1	3:CC:218:LYS:HB3	2.27	0.50
7:CG:159:LYS:HZ1	7:DO:276:LYS:HA	1.76	0.50
13:CM:10:ILE:HG22	13:CM:11:GLU:H	1.75	0.50
2:DB:1044:PHE:O	2:DB:1045:GLN:HB3	2.10	0.50
3:DC:83:VAL:HG12	3:DC:204:LEU:HD12	1.93	0.50
5:DE:72:PHE:CZ	5:DE:155:ARG:HG2	2.47	0.50
6:DF:60:GLN:O	6:DF:64:ILE:HG13	2.11	0.50
7:DG:46:TYR:CD1	7:DG:117:TRP:CD1	2.99	0.50
8:DH:15:VAL:HG22	8:DH:26:ILE:HG12	1.93	0.50
8:DH:102:TYR:HE2	8:DH:116:TYR:C	2.20	0.50
11:DK:61:ALA:O	11:DK:104:ARG:HD2	2.12	0.50
1:EA:189:VAL:O	1:EA:193:ILE:HG13	2.11	0.50
1:EA:497:VAL:HG23	1:EA:606:ARG:O	2.11	0.50
2:EB:789:ILE:CD1	2:EB:947:ILE:HG12	2.42	0.50
2:EB:1047:ARG:HG3	2:EB:1068:GLY:HA2	1.92	0.50
7:EG:39:VAL:HB	7:EG:126:GLN:HE21	1.76	0.50
14:EN:148:ILE:HD13	14:EN:150:TYR:OH	2.11	0.50
1:FA:1062:HIS:HD2	1:FA:1068:PHE:CD1	2.30	0.50
2:FB:18:THR:HA	2:FB:21:ARG:HH21	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:73:ILE:HG23	2:FB:74:PHE:N	2.27	0.50
2:FB:162:PRO:HB2	2:FB:409:TYR:OH	2.12	0.50
2:FB:215:MET:O	2:FB:234:ILE:HD13	2.12	0.50
2:FB:600:GLN:OE1	14:FN:90:MET:HE1	2.11	0.50
2:FB:1002:LYS:O	14:FN:168:LEU:HD23	2.12	0.50
3:FC:172:GLN:H	3:FC:175:GLN:HB2	1.77	0.50
9:FI:11:LEU:HD12	9:FI:11:LEU:H	1.77	0.50
9:FI:94:MET:HG2	9:FI:114:CYS:HA	1.93	0.50
10:FJ:54:VAL:C	10:FJ:56:LEU:H	2.18	0.50
14:FN:90:MET:O	14:FN:137:PHE:HB3	2.11	0.50
7:FO:277:LYS:HG3	7:FO:281:ASP:OD2	2.12	0.50
3:AC:253:PRO:HB2	14:AN:180:PHE:CD1	2.47	0.50
4:AD:22:ILE:O	7:AG:76:LYS:NZ	2.44	0.50
14:AN:148:ILE:HD13	14:AN:150:TYR:OH	2.11	0.50
2:BB:332:ASP:HB2	13:BM:114:LYS:HG3	1.94	0.50
7:BG:132:VAL:HG23	7:BG:232:THR:HB	1.93	0.50
1:CA:111:LYS:O	1:CA:115:VAL:HG23	2.12	0.50
1:CA:552:GLU:HB3	2:DB:837:LEU:HD12	1.94	0.50
1:CA:836:THR:OG1	1:CA:837:ALA:N	2.45	0.50
1:CA:1021:ARG:O	1:CA:1025:LYS:HB2	2.11	0.50
1:CA:1094:ALA:HB1	1:CA:1135:SER:HB2	1.94	0.50
1:CA:1102:LEU:CD1	1:CA:1105:ARG:HH21	2.25	0.50
2:CB:140:LYS:HE2	2:CB:153:PHE:HD2	1.77	0.50
3:CC:85:PHE:CG	3:CC:204:LEU:HD13	2.45	0.50
3:CC:110:PRO:HG3	3:CC:308:MET:HE2	1.94	0.50
7:CG:132:VAL:HG23	7:CG:232:THR:HB	1.94	0.50
13:CM:77:VAL:O	14:CN:55:LEU:HD12	2.12	0.50
13:CM:85:LYS:C	13:CM:87:SER:H	2.19	0.50
1:DA:1437:ASN:OD1	1:DA:1439:MET:HE3	2.12	0.50
3:DC:160:ALA:HA	3:DC:196:LEU:HD12	1.94	0.50
7:DG:37:CYS:HB3	7:DG:125:TRP:HD1	1.76	0.50
10:DJ:16:ASP:C	10:DJ:18:TRP:H	2.19	0.50
1:EA:58:LEU:HD11	7:EO:295:LEU:HD11	1.92	0.50
2:EB:655:TYR:HD1	2:EB:688:HIS:HE2	1.60	0.50
3:EC:59:ILE:HG12	3:EC:60:ASP:N	2.27	0.50
1:FA:519:LEU:O	1:FA:523:VAL:HG23	2.11	0.50
1:FA:547:ILE:C	1:FA:549:MET:H	2.18	0.50
1:FA:1263:LEU:HA	1:FA:1498:ILE:HD11	1.93	0.50
2:FB:417:ILE:O	2:FB:420:TYR:HB3	2.12	0.50
2:FB:1186:ASP:OD2	2:FB:1198:TYR:OH	2.24	0.50
3:FC:227:TYR:CD1	3:FC:298:PHE:HD2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:112:TYR:CE1	5:FE:136:ASN:HB2	2.47	0.50
8:FH:5:LEU:O	8:FH:6:PHE:HB2	2.11	0.50
10:FJ:54:VAL:HG12	10:FJ:56:LEU:HB2	1.94	0.50
11:FK:54:THR:HG22	11:FK:61:ALA:CA	2.41	0.50
1:AA:956:ARG:HG2	1:AA:979:GLY:O	2.12	0.50
2:AB:161:LEU:HD11	2:AB:409:TYR:CE2	2.47	0.50
6:AF:106:PRO:HG2	7:AG:55:GLU:HG2	1.93	0.50
9:AI:11:LEU:H	9:AI:11:LEU:HD12	1.76	0.50
9:AI:109:THR:HG21	9:AI:122:ARG:NH1	2.27	0.50
14:AN:110:LEU:CD2	14:AN:121:ILE:HA	2.42	0.50
1:BA:11:ILE:HD12	1:BA:11:ILE:O	2.12	0.50
1:BA:579:ARG:HH11	1:BA:579:ARG:HG3	1.76	0.50
2:BB:242:ASP:OD1	2:BB:244:THR:HG23	2.11	0.50
2:BB:626:ILE:N	2:BB:668:GLU:OE2	2.45	0.50
3:BC:77:SER:OG	3:BC:78:VAL:N	2.45	0.50
11:BK:51:THR:O	11:BK:54:THR:OG1	2.27	0.50
1:CA:323:ILE:O	1:CA:327:VAL:HG23	2.12	0.50
1:CA:1440:ASN:O	1:CA:1444:ARG:HB3	2.12	0.50
2:CB:1201:GLU:HG3	2:CB:1203:LYS:H	1.76	0.50
3:CC:173:GLY:C	3:CC:175:GLN:H	2.19	0.50
3:CC:230:LEU:O	3:CC:294:VAL:HG23	2.12	0.50
9:CI:94:MET:HG2	9:CI:114:CYS:HA	1.94	0.50
11:CK:115:ASP:O	11:CK:118:GLN:N	2.45	0.50
7:CO:275:ASN:N	7:CO:275:ASN:OD1	2.34	0.50
1:DA:457:LYS:C	1:DA:459:ALA:N	2.70	0.50
1:DA:713:VAL:HB	1:DA:738:ASN:HD21	1.76	0.50
1:DA:1170:MET:O	1:DA:1173:LYS:N	2.45	0.50
1:DA:1174:TYR:O	1:DA:1177:SER:N	2.36	0.50
2:DB:264:TRP:NE1	2:DB:265:ARG:HG2	2.27	0.50
2:DB:572:PRO:HG2	13:DM:70:SER:HB2	1.94	0.50
2:DB:624:LEU:HD12	2:DB:625:GLU:H	1.77	0.50
2:DB:916:LYS:HE3	2:DB:1040:VAL:HG13	1.94	0.50
3:DC:209:ILE:HG12	3:DC:210:LEU:N	2.27	0.50
4:DD:90:LYS:HA	4:DD:93:GLN:HG2	1.94	0.50
13:DM:81:PHE:HB2	13:DM:88:ILE:HD13	1.93	0.50
1:EA:121:LYS:O	1:EA:124:LEU:N	2.45	0.50
1:EA:127:TYR:CE2	1:EA:193:ILE:HD13	2.47	0.50
1:EA:579:ARG:HH11	1:EA:579:ARG:HG3	1.77	0.50
1:EA:1512:PRO:HB3	1:EA:1517:ARG:HA	1.93	0.50
2:EB:398:GLN:HB3	2:EB:399:HIS:ND1	2.27	0.50
2:EB:420:TYR:CE1	2:EB:424:ILE:HD11	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:600:GLN:OE1	14:EN:90:MET:HE1	2.11	0.50
2:EB:661:GLU:HG3	2:EB:662:ASP:N	2.27	0.50
2:EB:902:SER:OG	2:EB:903:ILE:N	2.45	0.50
3:EC:216:HIS:CE1	3:EC:218:LYS:HB3	2.47	0.50
8:EH:9:ILE:HD13	8:EH:56:THR:HG23	1.93	0.50
14:EN:31:LYS:O	14:EN:33:LYS:N	2.45	0.50
1:FA:835:LEU:HG	1:FA:985:ARG:NH1	2.19	0.50
2:FB:825:PHE:HZ	2:FB:899:GLN:O	1.95	0.50
2:FB:888:ILE:CD1	12:FL:55:ILE:HA	2.42	0.50
2:FB:1201:GLU:HG3	2:FB:1203:LYS:H	1.75	0.50
7:FG:40:ARG:HB2	7:FG:123:TYR:CE1	2.47	0.50
7:FG:91:ASP:OD2	7:FG:103:LYS:HG2	2.11	0.50
14:FN:88:LYS:HD3	14:FN:90:MET:HE2	1.94	0.50
1:AA:32:ILE:HG21	1:AA:49:LEU:HD23	1.94	0.49
1:AA:530:TRP:HZ2	1:AA:582:LYS:HA	1.76	0.49
1:AA:1058:THR:C	1:AA:1060:GLU:H	2.18	0.49
1:AA:1202:LEU:HD13	9:AI:99:LEU:HD13	1.93	0.49
2:AB:244:THR:HG21	2:AB:414:LYS:HD3	1.93	0.49
7:AG:91:ASP:OD2	7:AG:103:LYS:HG2	2.12	0.49
7:AG:226:ASP:O	2:BB:434:ARG:NH1	2.45	0.49
1:BA:624:TYR:O	1:BA:625:ASN:HB3	2.11	0.49
1:BA:1637:PRO:CB	1:BA:1647:ASN:HD21	2.25	0.49
2:BB:428:VAL:O	2:BB:432:ILE:HD12	2.11	0.49
2:BB:876:SER:C	2:BB:878:GLU:H	2.19	0.49
5:BE:28:TYR:CE1	5:BE:78:LEU:HB3	2.46	0.49
1:CA:672:ASP:HB2	2:CB:783:MET:HE3	1.94	0.49
2:CB:70:GLU:HG2	2:CB:97:VAL:C	2.37	0.49
2:CB:210:ARG:HB2	2:CB:399:HIS:C	2.36	0.49
2:CB:840:LEU:HD11	2:CB:858:ILE:C	2.36	0.49
2:CB:858:ILE:HG12	2:CB:859:CYS:N	2.26	0.49
3:CC:83:VAL:HG12	3:CC:204:LEU:HD12	1.93	0.49
3:CC:203:SER:O	3:CC:204:LEU:HB3	2.11	0.49
7:CG:37:CYS:HB3	7:CG:125:TRP:HD1	1.77	0.49
7:CG:158:LYS:O	7:CG:162:ILE:HG13	2.11	0.49
9:CI:101:LEU:HD11	9:CI:122:ARG:HH22	1.77	0.49
14:CN:149:ASP:O	14:CN:153:VAL:HG12	2.11	0.49
7:CO:292:HIS:O	7:CO:295:LEU:HB2	2.12	0.49
1:DA:499:PRO:O	1:DA:501:PHE:N	2.45	0.49
1:DA:794:VAL:HG23	1:DA:795:HIS:N	2.22	0.49
1:DA:1196:PRO:C	1:DA:1198:THR:H	2.20	0.49
2:DB:260:PHE:HD1	2:DB:261:ARG:N	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:474:SER:C	2:DB:476:LEU:N	2.67	0.49
3:DC:137:ASN:CG	3:DC:203:SER:HB2	2.37	0.49
5:DE:137:GLU:C	5:DE:139:ALA:N	2.70	0.49
1:EA:584:ARG:HD3	6:EF:116:ASP:HB2	1.92	0.49
1:EA:681:THR:HG21	1:EA:781:LEU:HG	1.94	0.49
1:EA:1066:PHE:HB3	1:EA:1147:PHE:CE2	2.47	0.49
1:EA:1437:ASN:OD1	1:EA:1439:MET:HE3	2.12	0.49
2:EB:219:ARG:HG2	2:EB:221:SER:HB3	1.93	0.49
2:EB:380:LYS:HE3	2:EB:637:TYR:CB	2.42	0.49
2:EB:707:SER:HB2	2:EB:715:ASN:OD1	2.12	0.49
2:EB:829:ASN:HB2	1:FA:538:ASN:HD21	1.75	0.49
4:ED:36:VAL:HG22	7:EG:38:ILE:HG21	1.94	0.49
8:EH:39:THR:HG22	8:EH:124:ARG:HB3	1.93	0.49
13:EM:18:GLN:HG3	13:EM:19:PRO:HD2	1.94	0.49
13:EM:85:LYS:C	13:EM:87:SER:H	2.19	0.49
1:FA:191:MET:SD	1:FA:191:MET:C	2.95	0.49
1:FA:387:SER:HA	1:FA:390:LEU:HD12	1.95	0.49
1:FA:669:LEU:H	1:FA:787:GLY:HA2	1.76	0.49
1:FA:1024:THR:O	1:FA:1028:GLU:N	2.45	0.49
1:FA:1637:PRO:CG	1:FA:1647:ASN:HD21	2.24	0.49
2:FB:362:LEU:HB2	2:FB:370:LYS:HE2	1.93	0.49
3:FC:59:ILE:HD11	3:FC:63:ILE:HB	1.93	0.49
3:FC:224:THR:HB	10:FJ:10:CYS:HB2	1.94	0.49
4:FD:21:VAL:O	4:FD:22:ILE:HD13	2.12	0.49
7:FG:100:THR:C	7:FG:102:GLU:N	2.68	0.49
1:AA:718:THR:OG1	1:AA:730:GLN:OE1	2.28	0.49
1:AA:1264:SER:O	9:AI:56:PHE:HB3	2.11	0.49
2:AB:274:VAL:HA	2:AB:277:LEU:HD12	1.94	0.49
2:AB:764:ASN:HB3	10:AJ:59:LYS:NZ	2.27	0.49
5:AE:87:SER:HA	5:AE:115:ASN:HB3	1.94	0.49
7:AG:66:LEU:HD11	7:AG:87:LEU:HD22	1.94	0.49
14:AN:171:PHE:CE1	14:AN:180:PHE:HE2	2.30	0.49
1:BA:456:VAL:O	1:BA:460:LEU:HG	2.11	0.49
1:BA:1125:ALA:O	5:BE:167:ARG:NH2	2.45	0.49
1:BA:1314:GLN:O	1:BA:1318:SER:HB3	2.12	0.49
1:BA:1545:ASP:CG	1:BA:1546:VAL:N	2.71	0.49
3:BC:209:ILE:HG12	3:BC:210:LEU:N	2.27	0.49
4:BD:22:ILE:HD13	7:BG:46:TYR:H	1.77	0.49
9:BI:23:VAL:HB	9:BI:39:LYS:HE3	1.93	0.49
9:BI:94:MET:HG2	9:BI:114:CYS:HA	1.94	0.49
1:CA:597:LYS:HB2	2:CB:1082:HIS:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:778:CYS:SG	1:CA:779:GLY:N	2.85	0.49
1:CA:1136:VAL:HG22	1:CA:1174:TYR:CE1	2.47	0.49
1:CA:1144:LEU:O	1:CA:1148:LEU:HB2	2.11	0.49
1:CA:1264:SER:HB3	9:CI:56:PHE:CD1	2.46	0.49
2:CB:811:LEU:HD13	2:CB:823:GLN:NE2	2.22	0.49
2:CB:977:ILE:HD13	2:CB:978:ALA:O	2.12	0.49
2:CB:1198:TYR:H	2:CB:1198:TYR:HD2	1.59	0.49
12:CL:32:ALA:HB3	12:CL:55:ILE:HG13	1.93	0.49
13:CM:26:PHE:CZ	13:CM:98:SER:HB2	2.46	0.49
7:CO:273:VAL:HG12	7:CO:274:SER:H	1.77	0.49
1:DA:507:TYR:OH	1:DA:641:GLU:N	2.45	0.49
2:DB:15:ASP:O	2:DB:753:LYS:HE3	2.12	0.49
2:DB:203:ILE:H	2:DB:203:ILE:HD12	1.76	0.49
2:DB:398:GLN:HB3	2:DB:399:HIS:ND1	2.28	0.49
2:DB:532:HIS:CD2	2:DB:700:LEU:HD22	2.47	0.49
2:DB:705:PRO:HG3	2:DB:920:ARG:CZ	2.41	0.49
2:DB:840:LEU:HD11	2:DB:858:ILE:C	2.38	0.49
5:DE:20:LYS:NZ	5:DE:37:LEU:HD22	2.27	0.49
13:DM:112:LYS:O	13:DM:113:ILE:HG13	2.13	0.49
2:EB:888:ILE:HG13	12:EL:55:ILE:HA	1.95	0.49
2:EB:903:ILE:N	2:EB:903:ILE:HD12	2.26	0.49
1:FA:1220:PRO:O	1:FA:1223:ARG:HB2	2.12	0.49
1:FA:1264:SER:HB3	9:FI:56:PHE:HD1	1.74	0.49
1:FA:1585:ILE:O	1:FA:1588:MET:HB3	2.13	0.49
2:FB:19:LEU:N	2:FB:19:LEU:HD23	2.27	0.49
2:FB:312:GLY:O	2:FB:316:ARG:HB2	2.12	0.49
2:FB:612:LYS:N	2:FB:620:LEU:HD21	2.27	0.49
2:FB:655:TYR:CZ	2:FB:657:PRO:HG2	2.47	0.49
2:FB:885:VAL:HA	2:FB:903:ILE:HG22	1.93	0.49
13:FM:16:GLN:CG	13:FM:17:ASP:H	2.25	0.49
1:AA:91:PHE:CD2	1:AA:249:THR:HG22	2.47	0.49
1:AA:657:TYR:O	1:AA:665:PRO:HA	2.13	0.49
1:AA:681:THR:O	1:AA:729:LYS:NZ	2.22	0.49
1:AA:1148:LEU:HD11	1:AA:1167:ARG:HB2	1.92	0.49
2:AB:655:TYR:HD1	2:AB:688:HIS:HE2	1.60	0.49
2:AB:848:ILE:CG1	12:AL:60:ARG:HA	2.42	0.49
3:AC:253:PRO:C	3:AC:255:VAL:H	2.19	0.49
11:AK:60:SER:HG	11:AK:104:ARG:HH21	1.56	0.49
14:AN:26:PRO:HB2	14:AN:29:PHE:CD1	2.46	0.49
1:BA:247:GLY:O	1:BA:442:LYS:HG2	2.13	0.49
1:BA:903:ILE:O	1:BA:907:VAL:HG23	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1033:SER:HB3	6:BF:139:PRO:CG	2.36	0.49
1:BA:1237:GLN:HB2	1:BA:1544:ASN:HB2	1.94	0.49
2:BB:542:LEU:C	2:BB:543:ASN:HD22	2.19	0.49
7:BG:229:LEU:HD12	7:BG:230:ARG:H	1.76	0.49
13:BM:15:VAL:HA	13:BM:90:LEU:HB2	1.94	0.49
7:BO:282:ASP:O	7:BO:286:ILE:HG13	2.11	0.49
1:CA:61:LEU:HG	1:CA:67:LEU:O	2.12	0.49
1:CA:1049:MET:HG2	1:CA:1054:ALA:HB2	1.92	0.49
1:CA:1263:LEU:O	1:CA:1265:GLU:N	2.45	0.49
1:CA:1656:VAL:HG23	7:CG:107:ILE:HB	1.93	0.49
2:CB:277:LEU:HG	2:CB:374:LEU:HD21	1.93	0.49
2:CB:483:GLY:C	2:CB:484:TYR:HD2	2.20	0.49
2:CB:675:ALA:HB2	2:CB:686:HIS:CG	2.47	0.49
2:CB:987:ASN:O	2:CB:989:ASP:N	2.45	0.49
2:CB:1198:TYR:CD2	2:CB:1198:TYR:N	2.80	0.49
1:DA:476:VAL:HG21	2:DB:1091:ARG:HE	1.77	0.49
1:DA:480:ALA:HB1	1:DA:501:PHE:CZ	2.47	0.49
1:DA:618:TYR:HB3	1:DA:670:ILE:CD1	2.42	0.49
1:DA:1028:GLU:OE1	1:DA:1638:SER:HB2	2.12	0.49
2:DB:168:ASN:OD1	2:DB:169:ARG:HG2	2.13	0.49
2:DB:234:ILE:HB	2:DB:250:LEU:HB2	1.93	0.49
2:DB:379:ARG:CZ	2:DB:580:GLY:HA2	2.43	0.49
7:DG:62:MET:HA	7:DG:66:LEU:HB2	1.93	0.49
7:DO:274:SER:HA	7:DO:277:LYS:HB3	1.94	0.49
1:EA:530:TRP:HZ2	1:EA:582:LYS:HA	1.76	0.49
1:EA:748:ASN:N	1:EA:748:ASN:ND2	2.60	0.49
2:EB:260:PHE:CD1	2:EB:260:PHE:C	2.90	0.49
3:EC:69:ARG:HD3	11:EK:71:THR:OG1	2.11	0.49
3:EC:173:GLY:C	3:EC:175:GLN:H	2.20	0.49
5:EE:182:ASP:OD2	5:EE:184:VAL:HG23	2.12	0.49
7:EG:139:ILE:CD1	7:EG:140:GLN:H	2.24	0.49
13:EM:23:VAL:HB	13:EM:95:VAL:HG22	1.93	0.49
13:EM:112:LYS:O	13:EM:113:ILE:HG13	2.13	0.49
1:FA:1247:SER:OG	1:FA:1248:ASP:N	2.45	0.49
2:FB:501:ARG:HG3	2:FB:699:ILE:CD1	2.42	0.49
3:FC:134:LEU:HD23	3:FC:169:PHE:HA	1.95	0.49
6:FF:83:PRO:O	6:FF:151:LEU:HD22	2.12	0.49
7:FG:93:ASP:HB2	7:FG:104:LEU:HD12	1.94	0.49
9:FI:13:CYS:HB3	9:FI:33:CYS:HB3	1.94	0.49
11:FK:135:PHE:CE2	11:FK:139:ILE:HG13	2.47	0.49
12:FL:64:LEU:HD12	12:FL:65:VAL:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:818:THR:CG2	2:AB:780:GLY:HA3	2.42	0.49
1:AA:1073:TYR:HD2	1:AA:1074:TYR:CE2	2.31	0.49
2:AB:38:LEU:O	2:AB:41:ALA:N	2.34	0.49
2:AB:201:LYS:NZ	2:AB:466:SER:HA	2.27	0.49
2:AB:1053:ASN:ND2	2:AB:1054:SER:H	2.10	0.49
2:AB:1117:VAL:HG21	2:AB:1162:GLY:N	2.28	0.49
1:BA:123:ARG:HG3	1:BA:193:ILE:HD11	1.94	0.49
1:BA:753:ASN:OD1	1:BA:755:ILE:N	2.45	0.49
1:BA:850:SER:O	1:BA:853:THR:N	2.44	0.49
1:BA:1098:SER:OG	1:BA:1141:GLN:NE2	2.45	0.49
2:BB:301:PHE:CD1	2:BB:302:LEU:HD23	2.47	0.49
2:BB:304:ASP:O	2:BB:308:LEU:HG	2.11	0.49
2:BB:1160:GLU:HG2	2:BB:1166:LYS:HG2	1.94	0.49
5:BE:43:LYS:O	5:BE:47:CYS:HB2	2.12	0.49
7:BG:140:GLN:HB3	7:BG:217:TRP:HD1	1.76	0.49
13:BM:16:GLN:HB3	13:BM:92:LYS:H	1.77	0.49
14:BN:26:PRO:HB2	14:BN:29:PHE:CD1	2.47	0.49
1:CA:476:VAL:HG23	2:CB:1091:ARG:HH21	1.77	0.49
1:CA:927:ALA:O	1:CA:931:SER:OG	2.15	0.49
2:CB:628:TYR:HD1	2:CB:640:LEU:HD13	1.76	0.49
4:CD:46:GLU:OE1	7:CG:62:MET:HE1	2.12	0.49
5:CE:127:ILE:HD11	5:CE:132:ILE:HD11	1.93	0.49
6:CF:100:GLN:HG2	7:CG:112:PRO:CB	2.42	0.49
11:CK:58:GLY:O	11:CK:60:SER:N	2.45	0.49
13:CM:18:GLN:HG3	13:CM:19:PRO:HD2	1.94	0.49
1:DA:597:LYS:NZ	1:DA:656:GLN:HE22	2.10	0.49
1:DA:1241:PRO:HG3	1:DA:1540:GLY:CA	2.43	0.49
2:DB:800:TYR:CD2	2:DB:800:TYR:C	2.90	0.49
2:DB:895:PHE:O	2:DB:896:GLN:C	2.55	0.49
2:DB:1047:ARG:HG3	2:DB:1068:GLY:HA2	1.93	0.49
3:DC:216:HIS:ND1	3:DC:218:LYS:HD2	2.27	0.49
3:DC:277:ARG:HG3	3:DC:291:LEU:HD13	1.95	0.49
9:DI:10:CYS:HB2	9:DI:17:LEU:HD21	1.94	0.49
13:DM:57:ASN:O	13:DM:103:LYS:NZ	2.45	0.49
1:EA:821:ILE:CD1	2:EB:777:SER:HB2	2.42	0.49
1:EA:947:LEU:HB2	1:EA:982:VAL:HG21	1.93	0.49
1:EA:1262:LEU:HD12	1:EA:1264:SER:OG	2.12	0.49
1:EA:1264:SER:HA	1:EA:1267:ILE:HD12	1.95	0.49
1:EA:1559:ARG:O	1:EA:1563:VAL:HG23	2.13	0.49
2:EB:971:ALA:O	2:EB:973:ALA:N	2.45	0.49
3:EC:142:ARG:O	3:EC:144:PRO:HD3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:160:ALA:HA	3:EC:196:LEU:HD12	1.94	0.49
11:EK:128:CYS:O	11:EK:131:VAL:HB	2.11	0.49
14:EN:131:LEU:HG	14:EN:132:GLN:N	2.26	0.49
1:FA:758:GLU:O	1:FA:761:GLY:N	2.38	0.49
2:FB:887:LEU:HB3	2:FB:901:VAL:HG13	1.94	0.49
2:FB:917:PHE:HD2	2:FB:1035:ARG:HA	1.77	0.49
3:FC:203:SER:O	3:FC:204:LEU:HB3	2.12	0.49
1:AA:753:ASN:OD1	1:AA:755:ILE:N	2.44	0.49
2:AB:751:ILE:HG23	2:AB:752:VAL:HG22	1.94	0.49
5:AE:5:ASN:ND2	5:AE:52:ARG:HH21	2.08	0.49
8:AH:5:LEU:CD2	8:AH:135:LEU:HD23	2.41	0.49
9:AI:33:CYS:HB2	13:AM:60:LEU:CD2	2.43	0.49
1:BA:718:THR:OG1	1:BA:730:GLN:OE1	2.30	0.49
1:BA:1104:TYR:HE2	1:BA:1119:LYS:HD2	1.76	0.49
1:BA:1240:LEU:HD23	1:BA:1541:ILE:HG23	1.95	0.49
1:BA:1637:PRO:HG3	1:BA:1647:ASN:HD21	1.76	0.49
2:BB:72:VAL:HA	2:BB:95:LEU:O	2.11	0.49
2:BB:244:THR:HG21	2:BB:414:LYS:HD3	1.95	0.49
2:BB:380:LYS:HG3	2:BB:637:TYR:CD2	2.47	0.49
3:BC:254:GLY:O	3:BC:268:LYS:HB2	2.12	0.49
3:BC:289:VAL:HG12	3:BC:290:LYS:H	1.77	0.49
14:BN:58:PHE:N	14:BN:58:PHE:CD1	2.81	0.49
14:BN:107:MET:N	14:BN:107:MET:SD	2.82	0.49
1:CA:885:ASP:O	1:CA:889:SER:HB3	2.12	0.49
1:CA:1440:ASN:OD1	1:CA:1440:ASN:N	2.45	0.49
1:CA:1585:ILE:O	1:CA:1588:MET:HB3	2.12	0.49
2:CB:304:ASP:O	2:CB:308:LEU:HG	2.12	0.49
2:CB:1053:ASN:O	2:CB:1057:MET:HE2	2.13	0.49
3:CC:69:ARG:HD3	11:CK:71:THR:OG1	2.13	0.49
3:CC:136:LEU:HD22	3:CC:167:LEU:HA	1.95	0.49
7:CO:280:PHE:O	7:CO:284:VAL:HG23	2.12	0.49
1:DA:223:PHE:CE2	1:DA:227:LEU:HD11	2.47	0.49
1:DA:468:ARG:HD2	1:DA:1021:ARG:NH1	2.27	0.49
1:DA:809:VAL:HG12	1:DA:810:LEU:N	2.28	0.49
2:DB:878:GLU:OE2	2:DB:907:ILE:HG23	2.12	0.49
3:DC:80:ALA:HA	3:DC:208:CYS:HB3	1.94	0.49
3:DC:181:ASP:O	3:DC:183:PRO:HD3	2.13	0.49
11:DK:58:GLY:O	11:DK:60:SER:N	2.45	0.49
1:EA:247:GLY:O	1:EA:442:LYS:HG2	2.12	0.49
1:EA:631:ASP:OD1	1:EA:631:ASP:N	2.46	0.49
1:EA:1456:PHE:HB3	1:EA:1474:LEU:CD1	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:45:HIS:H	2:EB:45:HIS:CD2	2.31	0.49
2:EB:296:ASP:C	2:EB:298:LYS:H	2.19	0.49
2:EB:1053:ASN:HD22	2:EB:1054:SER:H	1.60	0.49
2:EB:1117:VAL:HG21	2:EB:1162:GLY:N	2.27	0.49
5:EE:64:PRO:HG2	5:EE:75:MET:HB3	1.95	0.49
12:EL:38:LEU:HD12	12:EL:49:LYS:HD3	1.94	0.49
14:EN:107:MET:SD	14:EN:107:MET:N	2.83	0.49
1:FA:1447:GLN:HE22	1:FA:1459:LYS:HG2	1.77	0.49
2:FB:1038:HIS:CE1	2:FB:1042:ASP:OD2	2.65	0.49
2:FB:1043:LYS:HG2	2:FB:1063:ARG:HG2	1.94	0.49
2:FB:1048:SER:OG	2:FB:1049:THR:N	2.46	0.49
2:FB:1151:ILE:HG22	2:FB:1152:PHE:H	1.78	0.49
3:FC:80:ALA:HA	3:FC:208:CYS:HB3	1.93	0.49
4:FD:36:VAL:HG22	7:FG:38:ILE:HG21	1.94	0.49
1:AA:550:SER:O	1:AA:553:GLN:HG3	2.13	0.49
2:AB:210:ARG:HH22	2:AB:625:GLU:CD	2.20	0.49
2:AB:324:THR:HG23	2:AB:347:LEU:HD21	1.95	0.49
2:AB:996:PHE:HA	2:AB:999:GLN:HG3	1.94	0.49
6:AF:70:LYS:HG3	7:AG:94:PRO:O	2.12	0.49
6:AF:83:PRO:O	6:AF:151:LEU:HD22	2.13	0.49
10:AJ:54:VAL:HG12	10:AJ:56:LEU:HB2	1.94	0.49
14:AN:31:LYS:O	14:AN:33:LYS:N	2.46	0.49
14:AN:107:MET:N	14:AN:107:MET:SD	2.83	0.49
1:BA:90:PHE:CE1	1:BA:1623:THR:HG23	2.48	0.49
1:BA:315:ILE:HG13	1:BA:319:GLU:HB2	1.93	0.49
1:BA:323:ILE:O	1:BA:327:VAL:HG23	2.12	0.49
2:BB:841:ASP:HB3	2:BB:843:ASP:OD1	2.13	0.49
3:CC:224:THR:HB	10:CJ:10:CYS:HB2	1.94	0.49
3:CC:253:PRO:HB2	14:CN:180:PHE:CD1	2.48	0.49
5:CE:70:SER:OG	5:CE:71:LYS:N	2.41	0.49
6:CF:102:SER:HB3	6:CF:117:PRO:HB3	1.94	0.49
6:CF:123:LYS:O	6:CF:126:ALA:HB3	2.13	0.49
1:DA:253:GLU:O	1:DA:312:SER:HA	2.11	0.49
1:DA:472:MET:SD	1:DA:1025:LYS:NZ	2.75	0.49
1:DA:936:SER:O	1:DA:940:VAL:HG23	2.13	0.49
1:DA:1252:ASP:HA	1:DA:1255:CYS:SG	2.52	0.49
2:DB:655:TYR:HD1	2:DB:688:HIS:NE2	2.10	0.49
3:DC:209:ILE:HG12	3:DC:210:LEU:O	2.13	0.49
5:DE:64:PRO:HG2	5:DE:75:MET:HB3	1.94	0.49
5:DE:70:SER:OG	5:DE:71:LYS:N	2.43	0.49
9:DI:122:ARG:HG3	9:DI:122:ARG:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:550:SER:O	1:EA:553:GLN:HG3	2.13	0.49
1:EA:585:ASP:OD1	1:EA:644:ARG:NH1	2.45	0.49
1:EA:669:LEU:H	1:EA:787:GLY:HA2	1.77	0.49
1:EA:1031:HIS:HB2	1:EA:1182:GLY:O	2.12	0.49
2:EB:67:ASP:O	2:EB:68:ILE:HD13	2.13	0.49
2:EB:242:ASP:OD1	2:EB:244:THR:HG23	2.13	0.49
2:EB:858:ILE:HG12	2:EB:859:CYS:N	2.27	0.49
2:EB:1076:ARG:O	2:EB:1080:ILE:HG13	2.11	0.49
3:EC:85:PHE:CG	3:EC:204:LEU:HD13	2.47	0.49
1:FA:778:CYS:SG	1:FA:779:GLY:N	2.85	0.49
1:FA:806:ALA:O	1:FA:809:VAL:N	2.46	0.49
1:FA:1460:TYR:HA	1:FA:1472:PHE:HB3	1.94	0.49
2:FB:21:ARG:HD3	2:FB:763:ASP:HB3	1.94	0.49
4:FD:89:LEU:HD23	4:FD:92:ILE:HD12	1.93	0.49
9:FI:101:LEU:CD1	9:FI:122:ARG:HH22	2.26	0.49
14:FN:110:LEU:CD2	14:FN:121:ILE:HA	2.42	0.49
1:AA:38:LEU:HB2	7:AO:291:SER:HB3	1.94	0.49
1:AA:703:GLU:CD	1:AA:703:GLU:H	2.19	0.49
1:AA:722:PRO:HD2	8:AH:46:LEU:HD13	1.95	0.49
2:AB:264:TRP:NE1	2:AB:265:ARG:HG2	2.27	0.49
2:AB:611:TRP:C	2:AB:620:LEU:HD21	2.37	0.49
2:AB:972:GLY:CA	2:AB:977:ILE:HG22	2.43	0.49
1:BA:1104:TYR:CE2	1:BA:1119:LYS:HD2	2.48	0.49
1:BA:1590:THR:OG1	5:BE:212:ARG:NH2	2.46	0.49
1:BA:1647:ASN:HD22	1:BA:1648:ASN:N	2.11	0.49
2:BB:600:GLN:OE1	14:BN:90:MET:HE1	2.12	0.49
2:BB:886:ASN:O	2:BB:902:SER:N	2.34	0.49
2:BB:1024:ALA:O	2:BB:1026:ILE:N	2.45	0.49
3:BC:86:PHE:CE2	3:BC:205:LYS:HE3	2.47	0.49
8:BH:102:TYR:HE2	8:BH:116:TYR:C	2.21	0.49
1:CA:467:PHE:O	1:CA:471:MET:HB2	2.13	0.49
1:CA:835:LEU:HG	1:CA:985:ARG:NH1	2.23	0.49
1:CA:975:ASP:CG	1:CA:976:ALA:N	2.71	0.49
1:CA:1073:TYR:CZ	1:CA:1077:LEU:HD22	2.48	0.49
1:CA:1637:PRO:CB	1:CA:1647:ASN:HD21	2.25	0.49
2:CB:242:ASP:OD2	2:CB:414:LYS:NZ	2.44	0.49
2:CB:728:THR:HG21	2:CB:765:PHE:HA	1.95	0.49
2:CB:774:ALA:HA	2:CB:1028:VAL:CG1	2.43	0.49
2:CB:1143:THR:CG2	2:CB:1150:LYS:N	2.75	0.49
8:CH:42:ILE:HD13	8:CH:95:TYR:CE2	2.48	0.49
9:CI:20:PRO:C	9:CI:22:ALA:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:372:LYS:HZ3	7:DO:297:LEU:HD21	1.78	0.49
1:DA:478:TYR:N	2:DB:1047:ARG:O	2.45	0.49
1:DA:759:TYR:CE1	1:DA:913:PRO:HG3	2.48	0.49
1:DA:1485:MET:HA	1:DA:1488:ILE:HD12	1.93	0.49
2:DB:380:LYS:HE3	2:DB:637:TYR:CB	2.43	0.49
3:DC:102:GLY:HA3	12:DL:69:ALA:CB	2.43	0.49
3:DC:135:SER:O	3:DC:168:LYS:HG3	2.13	0.49
1:EA:545:SER:C	1:EA:547:ILE:H	2.20	0.49
1:EA:753:ASN:OD1	1:EA:755:ILE:N	2.42	0.49
1:EA:835:LEU:HD22	1:EA:915:GLY:O	2.13	0.49
1:EA:920:PHE:CD1	1:EA:921:PRO:HA	2.48	0.49
2:EB:744:LEU:HD12	2:EB:745:GLN:H	1.76	0.49
4:ED:24:ALA:HA	7:EG:43:ILE:HG22	1.94	0.49
11:EK:83:ASN:HB3	11:EK:86:VAL:HG23	1.94	0.49
1:FA:892:LEU:HG	1:FA:893:ASP:OD1	2.11	0.49
1:FA:985:ARG:HD2	1:FA:987:TYR:HB3	1.95	0.49
1:FA:1117:SER:O	1:FA:1117:SER:OG	2.25	0.49
1:FA:1609:SER:O	1:FA:1612:LYS:HB2	2.12	0.49
2:FB:212:ASN:ND2	2:FB:239:VAL:HG22	2.15	0.49
2:FB:1047:ARG:CZ	2:FB:1059:PRO:HB3	2.42	0.49
3:FC:112:MET:HE1	3:FC:182:CYS:SG	2.53	0.49
3:FC:160:ALA:HA	3:FC:196:LEU:HD12	1.95	0.49
7:FG:26:ASN:ND2	7:FG:37:CYS:SG	2.86	0.49
1:AA:507:TYR:HB3	1:AA:579:ARG:HH12	1.78	0.49
1:AA:547:ILE:C	1:AA:549:MET:H	2.21	0.49
1:AA:669:LEU:HA	1:AA:669:LEU:HD23	1.60	0.49
1:AA:680:LEU:HD12	1:AA:820:TYR:CG	2.48	0.49
1:AA:1637:PRO:CG	1:AA:1647:ASN:HD21	2.25	0.49
2:AB:19:LEU:HD23	2:AB:19:LEU:N	2.27	0.49
2:AB:52:LEU:HD22	2:AB:61:LEU:HD21	1.95	0.49
2:AB:903:ILE:HD13	2:AB:905:TYR:HE1	1.78	0.49
2:AB:917:PHE:HD2	2:AB:1035:ARG:HA	1.78	0.49
2:AB:986:PHE:CD2	2:AB:992:PRO:HG3	2.48	0.49
2:AB:987:ASN:O	2:AB:989:ASP:N	2.46	0.49
2:AB:1047:ARG:CZ	2:AB:1059:PRO:HB3	2.43	0.49
3:AC:285:PHE:C	3:AC:287:ASP:H	2.19	0.49
3:AC:310:PRO:O	3:AC:313:ILE:N	2.46	0.49
8:AH:59:ILE:HG13	8:AH:142:LEU:HA	1.95	0.49
11:AK:58:GLY:O	11:AK:60:SER:N	2.45	0.49
1:BA:701:ARG:O	1:BA:704:ASP:HB2	2.13	0.49
1:BA:1102:LEU:HD12	1:BA:1105:ARG:HE	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1463:ASP:HB2	1:BA:1469:TRP:CD1	2.48	0.49
1:BA:1613:MET:HA	1:BA:1618:THR:HA	1.94	0.49
2:BB:1047:ARG:HG3	2:BB:1068:GLY:HA2	1.95	0.49
3:BC:248:GLN:HG3	3:BC:256:ILE:O	2.12	0.49
1:CA:36:THR:HA	7:CO:288:ASN:OD1	2.13	0.49
1:CA:1344:ILE:H	1:CA:1344:ILE:HD12	1.76	0.49
1:CA:1456:PHE:HB3	1:CA:1474:LEU:CD1	2.39	0.49
2:CB:840:LEU:HD12	2:CB:857:PRO:HB2	1.93	0.49
9:CI:94:MET:HE1	9:CI:121:PHE:HE1	1.78	0.49
9:CI:122:ARG:HG3	9:CI:122:ARG:O	2.13	0.49
10:CJ:18:TRP:O	10:CJ:22:LEU:HG	2.12	0.49
14:CN:26:PRO:HB2	14:CN:29:PHE:CD1	2.48	0.49
1:DA:1072:ASN:O	1:DA:1075:ALA:N	2.46	0.49
2:DB:19:LEU:HD23	2:DB:19:LEU:N	2.27	0.49
2:DB:970:LYS:NZ	2:DB:1028:VAL:O	2.40	0.49
2:DB:1053:ASN:HD22	2:DB:1054:SER:H	1.61	0.49
6:DF:100:GLN:HG2	7:DG:112:PRO:CB	2.42	0.49
13:DM:10:ILE:HD12	14:DN:70:LEU:O	2.12	0.49
14:DN:26:PRO:HB2	14:DN:29:PHE:CE1	2.48	0.49
14:DN:64:ILE:C	14:DN:66:LYS:H	2.20	0.49
1:EA:82:PRO:HG3	1:EA:393:SER:O	2.13	0.49
1:EA:387:SER:HA	1:EA:390:LEU:HD12	1.94	0.49
1:EA:480:ALA:HB1	1:EA:501:PHE:CZ	2.48	0.49
1:EA:956:ARG:HE	1:EA:979:GLY:CA	2.20	0.49
1:EA:1242:ILE:HD11	1:EA:1517:ARG:HB3	1.95	0.49
1:EA:1321:PHE:C	1:EA:1321:PHE:CD2	2.90	0.49
1:EA:1559:ARG:HD2	1:EA:1587:ASP:OD1	2.12	0.49
2:EB:38:LEU:HD22	2:EB:38:LEU:H	1.78	0.49
2:EB:76:GLY:C	2:EB:77:LYS:HG2	2.37	0.49
2:EB:132:SER:HA	2:EB:195:ILE:O	2.13	0.49
2:EB:345:SER:HA	13:EM:113:ILE:HD11	1.95	0.49
2:EB:350:GLY:O	2:EB:353:VAL:HB	2.13	0.49
2:EB:744:LEU:HD11	2:EB:799:GLY:HA2	1.95	0.49
2:EB:885:VAL:HA	2:EB:903:ILE:HG22	1.95	0.49
2:EB:934:ILE:HG21	3:EC:73:SER:HB3	1.94	0.49
3:EC:245:ARG:HD2	3:EC:245:ARG:H	1.77	0.49
6:EF:101:ILE:HD13	6:EF:120:ILE:HG22	1.95	0.49
8:EH:40:LEU:HD12	8:EH:41:ASP:N	2.28	0.49
8:EH:103:LYS:O	8:EH:104:PHE:HD1	1.96	0.49
1:FA:795:HIS:O	1:FA:798:HIS:HB3	2.13	0.49
1:FA:1060:GLU:O	1:FA:1061:SER:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1162:ASN:O	1:FA:1165:LYS:HB2	2.13	0.49
1:FA:1658:ALA:HB2	7:FG:107:ILE:HD11	1.94	0.49
2:FB:45:HIS:CD2	2:FB:45:HIS:H	2.31	0.49
2:FB:627:GLY:O	2:FB:641:TYR:N	2.46	0.49
2:FB:940:GLU:HB2	2:FB:1012:PRO:HB2	1.93	0.49
3:FC:85:PHE:CG	3:FC:204:LEU:HD13	2.47	0.49
4:FD:31:VAL:HG23	7:FG:38:ILE:HB	1.95	0.49
8:FH:124:ARG:NH1	8:FH:126:GLU:OE1	2.45	0.49
14:FN:155:VAL:HG13	14:FN:156:PRO:HD2	1.95	0.49
7:FO:267:ALA:C	7:FO:269:SER:N	2.70	0.49
1:AA:95:TYR:CZ	1:AA:245:LYS:HB3	2.48	0.49
1:AA:505:LEU:O	1:AA:581:ILE:HG22	2.13	0.49
1:AA:1562:ILE:O	1:AA:1566:ILE:HG13	2.13	0.49
2:AB:117:VAL:HG12	2:AB:118:GLU:H	1.77	0.49
2:AB:655:TYR:CZ	2:AB:657:PRO:HG2	2.48	0.49
2:AB:662:ASP:OD1	2:AB:663:ILE:N	2.46	0.49
3:AC:216:HIS:CE1	3:AC:218:LYS:HB3	2.48	0.49
1:BA:1162:ASN:H	1:BA:1165:LYS:HD2	1.76	0.49
2:BB:874:TYR:CZ	2:BB:876:SER:HB2	2.48	0.49
5:BE:64:PRO:HG2	5:BE:75:MET:HB3	1.95	0.49
13:BM:57:ASN:O	13:BM:103:LYS:NZ	2.45	0.49
1:CA:81:LEU:C	1:CA:83:VAL:H	2.20	0.49
1:CA:113:VAL:HG22	1:CA:182:LYS:CE	2.42	0.49
1:CA:939:ASN:O	1:CA:942:GLN:HB2	2.13	0.49
1:CA:1579:PHE:HA	1:CA:1582:LEU:HG	1.95	0.49
2:CB:349:VAL:O	2:CB:353:VAL:HG23	2.13	0.49
5:CE:64:PRO:HG2	5:CE:75:MET:HB3	1.95	0.49
1:DA:1559:ARG:HD2	1:DA:1587:ASP:OD1	2.12	0.49
2:DB:972:GLY:CA	2:DB:977:ILE:HG22	2.43	0.49
2:EB:550:ARG:O	2:EB:551:ILE:HD13	2.13	0.49
2:EB:1144:LYS:HG2	2:EB:1150:LYS:HD2	1.94	0.49
8:EH:116:TYR:HB2	8:EH:123:MET:SD	2.52	0.49
13:EM:10:ILE:HB	14:EN:70:LEU:HD21	1.94	0.49
1:FA:555:LYS:O	1:FA:558:ALA:HB3	2.12	0.49
1:FA:579:ARG:HH11	1:FA:579:ARG:HG3	1.78	0.49
1:FA:1257:SER:HA	1:FA:1499:ARG:NH2	2.28	0.49
1:FA:1446:ARG:HH12	1:FA:1462:PHE:HB3	1.77	0.49
2:FB:656:LEU:HG	2:FB:687:THR:O	2.12	0.49
3:FC:133:VAL:HG12	3:FC:170:GLU:HB2	1.93	0.49
1:AA:50:TYR:OH	1:AA:370:PRO:HG3	2.13	0.49
1:AA:342:ARG:CZ	1:AA:342:ARG:HB2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1060:GLU:O	1:AA:1063:MET:N	2.42	0.49
1:AA:1102:LEU:HD22	1:AA:1141:GLN:HE21	1.77	0.49
2:AB:732:ALA:O	2:AB:736:ARG:HG3	2.13	0.49
2:AB:888:ILE:HD11	12:AL:55:ILE:HB	1.95	0.49
2:AB:974:LEU:O	10:AJ:47:ARG:NH1	2.46	0.49
3:AC:209:ILE:HG12	3:AC:210:LEU:N	2.28	0.49
4:AD:85:SER:O	4:AD:88:GLN:N	2.43	0.49
1:BA:32:ILE:HG21	1:BA:49:LEU:HD23	1.95	0.49
1:BA:369:LEU:HD12	2:BB:1054:SER:HB2	1.95	0.49
1:BA:416:ARG:O	1:BA:419:ILE:HB	2.13	0.49
1:BA:550:SER:O	1:BA:553:GLN:HG3	2.13	0.49
1:BA:631:ASP:OD1	1:BA:631:ASP:N	2.45	0.49
1:BA:966:LEU:HD12	1:BA:967:PRO:HD2	1.94	0.49
1:BA:1105:ARG:NH2	1:BA:1138:GLU:OE2	2.46	0.49
1:BA:1325:LEU:HD22	1:BA:1492:ILE:HG21	1.95	0.49
1:BA:1440:ASN:C	1:BA:1442:VAL:H	2.21	0.49
2:BB:138:LEU:O	2:BB:139:LEU:HD23	2.13	0.49
2:BB:190:ILE:HG12	2:BB:191:GLY:N	2.27	0.49
2:BB:476:LEU:HA	2:BB:476:LEU:HD23	1.62	0.49
2:BB:1053:ASN:ND2	2:BB:1054:SER:H	2.11	0.49
3:BC:147:PRO:O	3:BC:149:GLY:N	2.46	0.49
7:BG:155:ALA:HA	7:BG:245:VAL:HB	1.94	0.49
8:BH:15:VAL:HG22	8:BH:26:ILE:HG12	1.95	0.49
11:BK:135:PHE:CE2	11:BK:139:ILE:HG13	2.48	0.49
14:BN:55:LEU:HB2	14:BN:133:PHE:CZ	2.48	0.49
1:CA:91:PHE:CD2	1:CA:249:THR:HG22	2.47	0.49
1:CA:96:ILE:HG23	1:CA:228:LEU:HD21	1.95	0.49
1:CA:669:LEU:HD13	1:CA:673:HIS:CG	2.48	0.49
1:CA:839:GLY:O	1:CA:842:TRP:HB2	2.12	0.49
1:CA:964:LYS:HB3	1:CA:964:LYS:HE2	1.60	0.49
1:CA:1138:GLU:O	1:CA:1141:GLN:HB3	2.13	0.49
2:CB:655:TYR:CE2	2:CB:657:PRO:HB2	2.47	0.49
2:CB:1047:ARG:HG3	2:CB:1068:GLY:HA2	1.95	0.49
3:CC:245:ARG:HD2	3:CC:245:ARG:N	2.28	0.49
7:CG:40:ARG:HB2	7:CG:123:TYR:CE1	2.48	0.49
8:CH:108:SER:O	8:CH:110:ASP:N	2.46	0.49
1:DA:369:LEU:HD12	2:DB:1054:SER:HB2	1.95	0.49
1:DA:1619:CYS:O	1:DA:1622:LEU:HB3	2.12	0.49
2:DB:94:LYS:O	2:DB:146:ASN:N	2.25	0.49
2:DB:807:GLU:O	2:DB:902:SER:OG	2.08	0.49
7:DG:250:ILE:HG22	7:DG:251:SER:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DN:70:LEU:O	14:DN:70:LEU:HG	2.13	0.49
14:DN:149:ASP:O	14:DN:153:VAL:HG12	2.13	0.49
1:EA:537:GLN:HE21	1:EA:541:GLY:HA2	1.78	0.49
1:EA:591:ARG:HB2	1:EA:633:MET:HG2	1.94	0.49
1:EA:721:LYS:H	8:EH:96:VAL:HB	1.78	0.49
1:EA:795:HIS:O	1:EA:798:HIS:HB3	2.13	0.49
1:EA:1310:LYS:O	1:EA:1313:LEU:HB3	2.12	0.49
2:EB:409:TYR:O	2:EB:413:LEU:HB2	2.13	0.49
2:EB:897:GLU:HB3	12:EL:43:THR:HG23	1.94	0.49
2:EB:915:ASP:OD1	2:EB:1038:HIS:ND1	2.46	0.49
5:EE:48:ASP:O	5:EE:50:MET:N	2.46	0.49
1:FA:1028:GLU:HA	1:FA:1187:ILE:CG1	2.42	0.49
1:FA:1028:GLU:OE1	1:FA:1638:SER:HB2	2.13	0.49
1:FA:1296:PHE:O	1:FA:1468:LYS:NZ	2.45	0.49
1:FA:1472:PHE:O	1:FA:1473:LYS:HB3	2.13	0.49
2:FB:190:ILE:HG12	2:FB:191:GLY:N	2.26	0.49
2:FB:532:HIS:CD2	2:FB:700:LEU:HD22	2.48	0.49
2:FB:851:TYR:HD1	2:FB:881:TYR:CE1	2.31	0.49
5:FE:3:GLN:O	5:FE:7:ARG:HG2	2.13	0.49
13:FM:10:ILE:HG22	13:FM:11:GLU:N	2.28	0.49
1:AA:519:LEU:HD13	1:AA:577:VAL:HB	1.95	0.48
1:AA:669:LEU:HD22	1:AA:673:HIS:HD1	1.74	0.48
1:AA:855:ARG:NH1	1:AA:868:THR:O	2.43	0.48
1:AA:1189:ALA:O	1:AA:1193:VAL:HG23	2.13	0.48
2:AB:94:LYS:O	2:AB:146:ASN:N	2.22	0.48
2:AB:776:ILE:HD12	2:AB:777:SER:H	1.77	0.48
2:AB:898:LEU:HD22	12:AL:46:VAL:CG2	2.43	0.48
8:AH:13:SER:N	8:AH:27:GLU:O	2.42	0.48
8:AH:101:ALA:HB2	8:AH:116:TYR:CE1	2.48	0.48
8:AH:103:LYS:O	8:AH:104:PHE:HD1	1.96	0.48
1:BA:122:LEU:O	1:BA:126:GLN:HG3	2.12	0.48
1:BA:659:THR:HG22	1:BA:666:VAL:HG22	1.93	0.48
1:BA:896:THR:HG21	1:BA:956:ARG:NH1	2.28	0.48
2:BB:350:GLY:O	2:BB:353:VAL:HB	2.13	0.48
3:BC:325:ALA:O	3:BC:328:LEU:N	2.43	0.48
13:BM:80:LEU:CD1	14:BN:39:PRO:HD2	2.43	0.48
14:BN:97:SER:OG	14:BN:98:SER:N	2.46	0.48
1:CA:90:PHE:HE1	1:CA:1623:THR:HG23	1.77	0.48
1:CA:1122:PRO:HG3	5:CE:207:ARG:HB3	1.95	0.48
1:CA:1485:MET:O	1:CA:1489:VAL:HG23	2.13	0.48
1:DA:1073:TYR:CZ	1:DA:1077:LEU:HD22	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1238:MET:HG3	1:DA:1524:VAL:HG22	1.95	0.48
1:DA:1326:GLU:HG2	1:DA:1456:PHE:HD2	1.77	0.48
1:DA:1649:VAL:CG1	2:DB:1083:GLY:HA2	2.43	0.48
3:DC:68:ARG:O	3:DC:72:ILE:HD12	2.13	0.48
3:DC:88:ASN:OD1	3:DC:202:ILE:HD11	2.12	0.48
3:DC:95:GLU:HG2	3:DC:96:VAL:N	2.27	0.48
1:EA:697:TYR:HE1	1:EA:702:PRO:CD	2.26	0.48
1:EA:1072:ASN:O	1:EA:1075:ALA:N	2.46	0.48
1:EA:1240:LEU:HD23	1:EA:1541:ILE:HG23	1.93	0.48
2:EB:533:THR:OG1	2:EB:534:PRO:HD2	2.13	0.48
2:EB:604:ILE:O	2:EB:608:LEU:HG	2.13	0.48
2:EB:787:MET:O	2:EB:788:ILE:HD13	2.12	0.48
2:EB:1047:ARG:CZ	2:EB:1059:PRO:HB3	2.43	0.48
3:EC:147:PRO:O	3:EC:149:GLY:N	2.46	0.48
7:EG:66:LEU:HD11	7:EG:87:LEU:HD22	1.94	0.48
8:EH:13:SER:HB2	8:EH:27:GLU:HB2	1.95	0.48
10:EJ:3:VAL:CG1	10:EJ:15:GLY:HA2	2.43	0.48
1:FA:1168:ALA:O	1:FA:1171:GLN:N	2.46	0.48
1:FA:1549:VAL:HG21	1:FA:1561:THR:HG21	1.95	0.48
2:FB:161:LEU:HD12	2:FB:162:PRO:CD	2.41	0.48
2:FB:845:LEU:HD12	12:FL:58:LYS:HD2	1.95	0.48
2:FB:847:TYR:O	2:FB:882:ILE:HD12	2.13	0.48
2:AB:73:ILE:HG13	2:AB:429:ARG:NH2	2.25	0.48
13:AM:112:LYS:O	13:AM:113:ILE:HG13	2.13	0.48
1:BA:492:THR:HG23	1:BA:811:SER:OG	2.13	0.48
1:BA:659:THR:HG23	1:BA:664:SER:O	2.12	0.48
1:BA:1326:GLU:O	1:BA:1330:VAL:HG23	2.13	0.48
1:BA:1559:ARG:O	1:BA:1563:VAL:HG23	2.13	0.48
2:BB:326:VAL:O	2:BB:330:LEU:HG	2.13	0.48
2:BB:1130:ARG:NH2	2:BB:1195:ARG:HD2	2.27	0.48
11:BK:118:GLN:O	11:BK:121:LEU:N	2.46	0.48
1:CA:816:LEU:HG	1:CA:817:PHE:N	2.25	0.48
1:CA:1556:GLU:O	1:CA:1559:ARG:HB3	2.13	0.48
2:CB:501:ARG:NH2	2:CB:546:ALA:O	2.46	0.48
3:CC:245:ARG:HD2	3:CC:245:ARG:H	1.78	0.48
7:CG:66:LEU:HD11	7:CG:87:LEU:HD22	1.94	0.48
8:CH:5:LEU:O	8:CH:6:PHE:HB2	2.13	0.48
10:CJ:43:ARG:NH1	10:CJ:46:CYS:SG	2.86	0.48
1:DA:532:GLY:O	1:DA:580:HIS:N	2.24	0.48
1:DA:1104:TYR:HE2	1:DA:1119:LYS:HD2	1.77	0.48
2:DB:323:ARG:O	2:DB:327:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:1201:GLU:HG3	2:DB:1203:LYS:H	1.78	0.48
5:DE:112:TYR:CE1	5:DE:136:ASN:HB2	2.47	0.48
7:DG:41:VAL:O	7:DG:122:LEU:HB2	2.13	0.48
13:DM:89:GLN:O	13:DM:90:LEU:HD23	2.12	0.48
7:DO:290:GLU:CD	7:DO:291:SER:N	2.71	0.48
1:EA:1440:ASN:O	1:EA:1444:ARG:HB3	2.13	0.48
2:EB:586:VAL:O	2:EB:593:ILE:HG22	2.13	0.48
2:EB:975:HIS:HE2	2:EB:1003:ALA:HB2	1.78	0.48
3:EC:110:PRO:HG3	3:EC:308:MET:HE2	1.95	0.48
5:EE:48:ASP:OD1	5:EE:48:ASP:N	2.45	0.48
5:EE:64:PRO:HB3	5:EE:68:SER:HB2	1.95	0.48
7:EG:46:TYR:CD1	7:EG:117:TRP:HD1	2.31	0.48
9:EI:99:LEU:HB2	9:EI:111:PHE:CZ	2.44	0.48
10:EJ:45:CYS:O	10:EJ:49:MET:HG2	2.13	0.48
13:EM:16:GLN:CG	13:EM:17:ASP:H	2.25	0.48
13:EM:80:LEU:CD1	14:EN:39:PRO:HG2	2.42	0.48
1:FA:253:GLU:O	1:FA:312:SER:HA	2.13	0.48
1:FA:1053:ASP:HB3	5:FE:205:SER:HB2	1.95	0.48
1:FA:1262:LEU:O	1:FA:1265:GLU:HB2	2.13	0.48
1:FA:1273:THR:N	9:FI:48:VAL:HG13	2.28	0.48
1:FA:1314:GLN:O	1:FA:1318:SER:HB3	2.13	0.48
8:FH:40:LEU:HD12	8:FH:41:ASP:N	2.28	0.48
14:FN:64:ILE:C	14:FN:66:LYS:H	2.20	0.48
14:FN:85:HIS:HB3	14:FN:87:TYR:CE1	2.48	0.48
1:AA:70:LYS:HE2	1:AA:71:PHE:CE1	2.49	0.48
1:AA:96:ILE:HG23	1:AA:228:LEU:HD21	1.94	0.48
1:AA:1073:TYR:CE1	1:AA:1077:LEU:HD22	2.48	0.48
1:AA:1260:LYS:HA	1:AA:1499:ARG:O	2.13	0.48
1:AA:1446:ARG:HH22	1:AA:1462:PHE:H	1.61	0.48
2:AB:59:GLY:O	2:AB:62:ASN:N	2.46	0.48
2:AB:714:ARG:HG2	2:AB:959:THR:CG2	2.43	0.48
2:AB:1060:VAL:HG22	2:AB:1061:LYS:N	2.28	0.48
3:AC:227:TYR:CD1	3:AC:298:PHE:HD2	2.31	0.48
4:AD:94:ARG:HD2	4:AD:99:LEU:HD13	1.94	0.48
7:AG:77:VAL:HG11	7:AG:124:VAL:HG21	1.95	0.48
14:AN:26:PRO:HB2	14:AN:29:PHE:CE1	2.48	0.48
7:AO:267:ALA:HA	7:AO:270:LEU:HB2	1.96	0.48
1:BA:91:PHE:CD2	1:BA:249:THR:HG22	2.48	0.48
1:BA:937:ASN:O	1:BA:940:VAL:HB	2.13	0.48
1:BA:1105:ARG:HH12	1:BA:1138:GLU:CD	2.20	0.48
1:BA:1299:ASN:HA	1:BA:1302:TYR:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1597:ALA:O	1:BA:1602:GLY:HA3	2.13	0.48
2:BB:210:ARG:HB2	2:BB:399:HIS:C	2.38	0.48
14:BN:70:LEU:O	14:BN:70:LEU:HG	2.13	0.48
1:CA:125:LEU:CD1	1:CA:219:LEU:HD12	2.43	0.48
1:CA:555:LYS:O	1:CA:558:ALA:HB3	2.13	0.48
1:CA:806:ALA:O	1:CA:809:VAL:N	2.46	0.48
1:CA:937:ASN:O	1:CA:940:VAL:HB	2.13	0.48
1:CA:1028:GLU:CD	1:CA:1637:PRO:HB2	2.39	0.48
2:CB:548:LYS:HG2	2:CB:550:ARG:NH2	2.27	0.48
2:CB:847:TYR:O	2:CB:882:ILE:HD12	2.13	0.48
2:CB:1024:ALA:O	2:CB:1026:ILE:N	2.46	0.48
2:CB:1060:VAL:HG21	7:CO:311:GLU:OE2	2.13	0.48
2:CB:1186:ASP:O	2:CB:1190:SER:OG	2.31	0.48
9:CI:94:MET:HE1	9:CI:121:PHE:CE1	2.48	0.48
1:DA:10:GLU:CG	1:DA:1645:LYS:HE3	2.43	0.48
1:DA:671:GLN:CA	2:DB:952:HIS:HD2	2.27	0.48
1:DA:1010:ALA:HB1	2:DB:536:GLY:HA2	1.94	0.48
1:DA:1441:LYS:HA	1:DA:1444:ARG:HD2	1.96	0.48
1:DA:1450:ILE:HG22	1:DA:1457:ILE:HG21	1.95	0.48
2:DB:117:VAL:HG12	2:DB:118:GLU:H	1.79	0.48
2:DB:555:GLN:HE21	2:DB:556:SER:N	2.12	0.48
3:DC:77:SER:OG	3:DC:78:VAL:N	2.45	0.48
3:DC:131:THR:HG22	3:DC:132:ILE:H	1.78	0.48
3:DC:173:GLY:C	3:DC:175:GLN:H	2.20	0.48
3:DC:245:ARG:H	3:DC:245:ARG:HD2	1.78	0.48
5:DE:7:ARG:O	5:DE:11:ARG:HG3	2.14	0.48
5:DE:76:GLY:H	5:DE:106:GLN:HG2	1.78	0.48
9:DI:95:ASN:N	9:DI:113:THR:O	2.40	0.48
1:EA:507:TYR:HB3	1:EA:579:ARG:HH12	1.77	0.48
1:EA:1085:LEU:HD13	6:EF:84:TYR:OH	2.13	0.48
1:EA:1326:GLU:HG2	1:EA:1456:PHE:HD2	1.78	0.48
1:EA:1562:ILE:O	1:EA:1566:ILE:HG13	2.14	0.48
2:EB:19:LEU:N	2:EB:19:LEU:HD23	2.29	0.48
2:EB:260:PHE:HD1	2:EB:261:ARG:N	2.11	0.48
2:EB:274:VAL:HG11	2:EB:313:PHE:HB2	1.96	0.48
2:EB:290:ASP:C	2:EB:292:ILE:H	2.22	0.48
2:EB:858:ILE:HD11	2:EB:872:LYS:HB3	1.96	0.48
4:ED:22:ILE:HD12	7:EG:45:LEU:HA	1.94	0.48
8:EH:101:ALA:HB2	8:EH:116:TYR:CE1	2.49	0.48
1:FA:95:TYR:CZ	1:FA:245:LYS:HB3	2.48	0.48
1:FA:127:TYR:CE2	1:FA:193:ILE:HD13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:934:LYS:HE2	2:FB:956:SER:OG	2.13	0.48
1:FA:1218:GLY:O	1:FA:1222:LEU:HD22	2.13	0.48
2:FB:108:MET:SD	2:FB:120:LYS:HA	2.53	0.48
2:FB:870:LYS:HB2	2:FB:870:LYS:HE2	1.49	0.48
11:FK:86:VAL:HG13	11:FK:105:ILE:HG23	1.94	0.48
1:AA:127:TYR:CE2	1:AA:193:ILE:HD13	2.49	0.48
1:AA:416:ARG:O	1:AA:419:ILE:HB	2.14	0.48
1:AA:1049:MET:HG2	1:AA:1054:ALA:HB2	1.93	0.48
1:AA:1440:ASN:C	1:AA:1442:VAL:H	2.21	0.48
1:AA:1450:ILE:HG22	1:AA:1457:ILE:HG21	1.94	0.48
2:AB:373:MET:HE2	2:AB:592:ILE:HG13	1.96	0.48
2:AB:707:SER:HB2	2:AB:715:ASN:OD1	2.13	0.48
2:AB:837:LEU:HD22	2:AB:837:LEU:HA	1.63	0.48
2:AB:1060:VAL:HG23	7:AO:314:THR:HB	1.94	0.48
3:AC:216:HIS:ND1	3:AC:218:LYS:HD2	2.28	0.48
5:AE:76:GLY:H	5:AE:106:GLN:HG2	1.78	0.48
6:AF:67:LYS:O	6:AF:71:GLU:HG3	2.13	0.48
8:AH:116:TYR:HB2	8:AH:123:MET:SD	2.53	0.48
11:AK:135:PHE:CE2	11:AK:139:ILE:HG13	2.49	0.48
1:BA:67:LEU:HD13	1:BA:71:PHE:HB3	1.94	0.48
1:BA:692:TYR:O	1:BA:696:ILE:HG12	2.13	0.48
1:BA:809:VAL:HG12	1:BA:810:LEU:N	2.27	0.48
1:BA:1217:LEU:HD13	1:BA:1573:TYR:CE1	2.47	0.48
2:BB:38:LEU:HD22	2:BB:38:LEU:H	1.77	0.48
2:BB:302:LEU:HD11	2:BB:379:ARG:CZ	2.42	0.48
2:BB:470:LEU:HD22	2:BB:484:TYR:HE1	1.79	0.48
2:BB:716:MET:O	2:BB:719:CYS:HB2	2.13	0.48
3:BC:97:LEU:O	3:BC:100:ARG:HB2	2.14	0.48
3:BC:136:LEU:HD13	3:BC:166:ASP:O	2.14	0.48
6:BF:83:PRO:O	6:BF:151:LEU:HD22	2.13	0.48
11:BK:46:LYS:HE3	11:BK:66:VAL:O	2.13	0.48
14:BN:56:ILE:HG22	14:BN:57:LYS:H	1.78	0.48
1:CA:1555:VAL:N	5:CE:182:ASP:OD1	2.33	0.48
2:CB:132:SER:HA	2:CB:195:ILE:O	2.13	0.48
2:CB:526:GLY:CA	2:CB:696:ILE:HG22	2.44	0.48
2:CB:683:ASN:HA	14:CN:150:TYR:CE1	2.48	0.48
2:CB:744:LEU:HD11	2:CB:799:GLY:HA2	1.95	0.48
2:CB:1007:TYR:C	2:CB:1009:GLY:H	2.22	0.48
3:CC:133:VAL:HG12	3:CC:170:GLU:HB2	1.96	0.48
4:CD:36:VAL:HG22	7:CG:38:ILE:HG21	1.95	0.48
6:CF:99:LEU:HB3	7:CG:112:PRO:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:94:ASP:N	8:CH:94:ASP:OD1	2.46	0.48
13:CM:23:VAL:HG13	14:CN:108:THR:O	2.12	0.48
14:CN:110:LEU:CD2	14:CN:121:ILE:HA	2.43	0.48
1:DA:808:LYS:O	1:DA:809:VAL:C	2.56	0.48
1:DA:1263:LEU:C	1:DA:1265:GLU:N	2.72	0.48
2:DB:161:LEU:HD11	2:DB:409:TYR:CE2	2.48	0.48
2:DB:397:THR:HA	2:DB:400:GLN:OE1	2.13	0.48
2:DB:887:LEU:O	2:DB:887:LEU:HD22	2.13	0.48
1:EA:96:ILE:HG23	1:EA:228:LEU:HD21	1.94	0.48
1:EA:1003:ARG:NH2	2:EB:533:THR:HG21	2.27	0.48
1:EA:1117:SER:C	1:EA:1119:LYS:H	2.21	0.48
1:EA:1246:VAL:HG22	1:EA:1250:GLN:HE22	1.76	0.48
1:EA:1261:VAL:C	1:EA:1498:ILE:HB	2.38	0.48
1:EA:1601:GLN:C	1:EA:1603:MET:N	2.69	0.48
2:EB:244:THR:O	2:EB:244:THR:OG1	2.31	0.48
2:EB:260:PHE:CD2	2:EB:276:ILE:HG12	2.48	0.48
2:EB:655:TYR:HD1	2:EB:688:HIS:NE2	2.11	0.48
14:EN:58:PHE:N	14:EN:58:PHE:CD1	2.80	0.48
1:FA:1530:TRP:O	5:FE:14:ARG:NH2	2.46	0.48
2:FB:345:SER:HA	13:FM:113:ILE:CG1	2.43	0.48
2:FB:629:VAL:HB	2:FB:639:GLY:H	1.78	0.48
3:FC:209:ILE:HG12	3:FC:210:LEU:N	2.28	0.48
11:FK:90:GLY:O	11:FK:103:ILE:HD13	2.13	0.48
14:FN:75:GLU:H	14:FN:91:ASP:CG	2.21	0.48
1:AA:456:VAL:O	1:AA:459:ALA:HB3	2.13	0.48
1:AA:732:ILE:H	1:AA:732:ILE:HG12	1.26	0.48
1:AA:809:VAL:HG13	1:AA:813:LEU:HD11	1.95	0.48
1:AA:987:TYR:C	1:AA:987:TYR:HD2	2.22	0.48
2:AB:655:TYR:HD1	2:AB:688:HIS:NE2	2.11	0.48
2:AB:703:LEU:HD23	2:AB:754:ALA:HB3	1.95	0.48
5:AE:39:LEU:O	5:AE:42:PHE:HB3	2.13	0.48
1:BA:607:VAL:O	1:BA:608:LEU:HD23	2.14	0.48
1:BA:697:TYR:CE1	1:BA:702:PRO:HD3	2.49	0.48
1:BA:731:ILE:O	1:BA:735:VAL:HG23	2.14	0.48
1:BA:934:LYS:HE2	2:BB:956:SER:OG	2.14	0.48
1:BA:1446:ARG:HG2	1:BA:1450:ILE:HD13	1.94	0.48
2:BB:117:VAL:HG12	2:BB:118:GLU:H	1.78	0.48
2:BB:162:PRO:HB2	2:BB:409:TYR:OH	2.14	0.48
2:BB:346:ASP:OD2	13:BM:114:LYS:HG3	2.14	0.48
2:BB:532:HIS:ND1	2:BB:700:LEU:HD13	2.29	0.48
1:CA:124:LEU:HD12	1:CA:133:SER:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:504:LYS:HD3	2:CB:1046:VAL:HG11	1.95	0.48
1:CA:1102:LEU:HD22	1:CA:1141:GLN:HE21	1.78	0.48
1:CA:1276:THR:HG23	1:CA:1288:ARG:NH1	2.25	0.48
2:CB:273:VAL:HA	2:CB:276:ILE:HD13	1.95	0.48
3:CC:181:ASP:O	3:CC:183:PRO:HD3	2.14	0.48
8:CH:108:SER:O	8:CH:109:LYS:C	2.56	0.48
14:CN:148:ILE:HD13	14:CN:150:TYR:OH	2.12	0.48
1:DA:16:PHE:N	1:DA:16:PHE:CD1	2.81	0.48
1:DA:475:ARG:HB3	1:DA:475:ARG:HH11	1.79	0.48
1:DA:934:LYS:HE2	2:DB:956:SER:OG	2.13	0.48
1:DA:1073:TYR:CE1	1:DA:1077:LEU:HD22	2.49	0.48
2:DB:312:GLY:O	2:DB:316:ARG:HB2	2.13	0.48
2:DB:555:GLN:NE2	2:DB:644:GLY:O	2.47	0.48
2:DB:845:LEU:HD12	12:DL:58:LYS:CD	2.44	0.48
3:DC:147:PRO:O	3:DC:149:GLY:N	2.46	0.48
3:DC:204:LEU:HG	3:DC:204:LEU:O	2.14	0.48
8:DH:101:ALA:HB2	8:DH:116:TYR:CE1	2.48	0.48
1:EA:118:TYR:CD2	1:EA:223:PHE:HD1	2.31	0.48
1:EA:1027:LEU:O	1:EA:1030:VAL:HB	2.13	0.48
1:EA:1291:VAL:HG22	1:EA:1473:LYS:CD	2.43	0.48
1:EA:1603:MET:HE1	1:EA:1612:LYS:HA	1.93	0.48
2:EB:96:SER:OG	2:EB:144:SER:O	2.22	0.48
2:EB:326:VAL:O	2:EB:330:LEU:HG	2.13	0.48
11:EK:58:GLY:O	11:EK:60:SER:N	2.46	0.48
1:FA:509:GLU:OE1	1:FA:579:ARG:NH2	2.45	0.48
1:FA:596:HIS:CD2	1:FA:596:HIS:N	2.80	0.48
1:FA:1039:ARG:NH2	5:FE:168:TYR:O	2.44	0.48
2:FB:548:LYS:HA	2:FB:550:ARG:HH22	1.78	0.48
2:FB:705:PRO:HG3	2:FB:920:ARG:CZ	2.44	0.48
3:FC:233:ILE:HD11	3:FC:291:LEU:HG	1.96	0.48
5:FE:39:LEU:O	5:FE:42:PHE:HB3	2.13	0.48
8:FH:108:SER:O	8:FH:109:LYS:C	2.57	0.48
9:FI:2:SER:HB2	9:FI:11:LEU:HD21	1.94	0.48
10:FJ:41:LEU:HD22	10:FJ:46:CYS:HB3	1.95	0.48
1:AA:13:SER:OG	1:AA:1631:ARG:NH1	2.47	0.48
1:AA:809:VAL:HG12	1:AA:810:LEU:N	2.29	0.48
1:AA:895:VAL:O	1:AA:899:LYS:HG2	2.13	0.48
1:AA:1196:PRO:C	1:AA:1198:THR:H	2.21	0.48
1:AA:1270:VAL:HB	9:AI:51:THR:CG2	2.44	0.48
1:AA:1288:ARG:HE	1:AA:1480:THR:HB	1.79	0.48
2:AB:380:LYS:HE3	2:AB:637:TYR:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:609:ARG:CZ	2:AB:672:MET:HE1	2.44	0.48
2:AB:887:LEU:HD13	12:AL:56:LEU:O	2.13	0.48
3:AC:136:LEU:HD13	3:AC:166:ASP:O	2.13	0.48
13:AM:81:PHE:HB2	13:AM:88:ILE:HD13	1.95	0.48
1:BA:223:PHE:CE2	1:BA:227:LEU:HD11	2.47	0.48
1:BA:426:ALA:HB2	7:BO:273:VAL:HG21	1.95	0.48
1:BA:668:GLY:HA3	1:BA:787:GLY:C	2.39	0.48
1:BA:1170:MET:HA	1:BA:1173:LYS:HB3	1.94	0.48
1:BA:1173:LYS:O	1:BA:1177:SER:OG	2.24	0.48
1:BA:1263:LEU:C	1:BA:1265:GLU:H	2.21	0.48
2:BB:132:SER:HA	2:BB:195:ILE:O	2.13	0.48
2:BB:205:MET:HB2	2:BB:502:MET:O	2.13	0.48
2:BB:212:ASN:OD1	2:BB:239:VAL:HG13	2.13	0.48
2:BB:290:ASP:OD1	13:BM:28:LYS:HE2	2.13	0.48
2:BB:381:LEU:O	2:BB:385:VAL:HG23	2.13	0.48
2:BB:398:GLN:HB3	2:BB:399:HIS:ND1	2.29	0.48
8:BH:101:ALA:HB2	8:BH:116:TYR:CE1	2.49	0.48
7:BO:300:VAL:HB	7:BO:308:ILE:HB	1.96	0.48
1:CA:460:LEU:O	1:CA:466:LEU:HB3	2.13	0.48
1:CA:697:TYR:CE1	1:CA:702:PRO:HD3	2.48	0.48
1:CA:920:PHE:CD1	1:CA:921:PRO:HA	2.49	0.48
1:CA:1001:ALA:O	1:CA:1004:GLU:HB2	2.14	0.48
1:CA:1136:VAL:HG22	1:CA:1174:TYR:CD1	2.49	0.48
1:CA:1292:ILE:HD12	1:CA:1292:ILE:O	2.12	0.48
1:CA:1463:ASP:C	1:CA:1465:GLU:N	2.71	0.48
1:CA:1649:VAL:O	1:CA:1652:GLY:N	2.42	0.48
2:CB:972:GLY:CA	2:CB:977:ILE:HG22	2.41	0.48
2:CB:1044:PHE:O	2:CB:1045:GLN:HB3	2.12	0.48
6:CF:97:ARG:HA	6:CF:100:GLN:HG3	1.94	0.48
8:CH:12:VAL:HA	8:CH:28:ALA:HB2	1.94	0.48
11:CK:128:CYS:O	11:CK:131:VAL:HB	2.14	0.48
1:DA:476:VAL:HG23	2:DB:1091:ARG:HH21	1.78	0.48
1:DA:896:THR:HG21	1:DA:956:ARG:NH1	2.29	0.48
1:DA:920:PHE:CD1	1:DA:921:PRO:HA	2.48	0.48
2:DB:655:TYR:CZ	2:DB:657:PRO:HG2	2.48	0.48
2:DB:796:ARG:HD2	10:DJ:7:CYS:O	2.14	0.48
2:DB:876:SER:O	2:DB:878:GLU:N	2.37	0.48
3:DC:70:ILE:O	3:DC:72:ILE:N	2.47	0.48
3:DC:148:LYS:NZ	3:EC:148:LYS:HE2	2.28	0.48
7:DG:46:TYR:HD1	7:DG:117:TRP:HD1	1.62	0.48
9:DI:2:SER:O	9:DI:9:PHE:N	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:93:GLN:HG3	1:EA:1627:LEU:HD13	1.96	0.48
1:EA:457:LYS:C	1:EA:459:ALA:H	2.21	0.48
1:EA:589:MET:SD	1:EA:635:MET:HG3	2.53	0.48
1:EA:678:VAL:O	1:EA:681:THR:N	2.45	0.48
1:EA:806:ALA:O	1:EA:809:VAL:N	2.46	0.48
1:EA:1484:LEU:CG	2:EB:308:LEU:HD11	2.44	0.48
2:EB:636:GLN:HB3	2:EB:671:TYR:OH	2.14	0.48
3:EC:329:LYS:CD	11:EK:122:LYS:HE2	2.39	0.48
1:FA:4:SER:HB2	1:FA:573:LEU:CD2	2.43	0.48
2:FB:234:ILE:HB	2:FB:250:LEU:HB2	1.96	0.48
2:FB:586:VAL:HG22	2:FB:640:LEU:HD23	1.96	0.48
2:FB:753:LYS:O	2:FB:981:SER:OG	2.11	0.48
2:FB:792:SER:HB2	2:FB:933:THR:HB	1.96	0.48
2:FB:888:ILE:HD11	12:FL:55:ILE:HA	1.95	0.48
3:FC:181:ASP:O	3:FC:183:PRO:HD3	2.13	0.48
6:FF:93:ILE:HD13	6:FF:93:ILE:HA	1.59	0.48
11:FK:117:LEU:O	11:FK:121:LEU:HB2	2.14	0.48
1:AA:603:HIS:NE2	1:AA:624:TYR:OH	2.46	0.48
1:AA:937:ASN:O	1:AA:940:VAL:HB	2.13	0.48
2:AB:687:THR:OG1	2:AB:688:HIS:ND1	2.47	0.48
2:AB:898:LEU:CD2	12:AL:46:VAL:HG13	2.44	0.48
3:AC:245:ARG:H	3:AC:245:ARG:HD2	1.78	0.48
10:AJ:2:ILE:HG12	10:AJ:3:VAL:HG23	1.95	0.48
1:BA:928:MET:HG3	1:BA:933:ALA:HB3	1.95	0.48
2:BB:209:GLN:OE1	2:BB:237:ARG:HB2	2.13	0.48
2:BB:274:VAL:HG11	2:BB:313:PHE:HB2	1.95	0.48
2:BB:501:ARG:HG3	2:BB:699:ILE:HD12	1.96	0.48
3:BC:227:TYR:HA	3:BC:299:ILE:O	2.14	0.48
1:CA:7:VAL:HG11	2:CB:1175:THR:O	2.13	0.48
1:CA:719:ILE:HG23	1:CA:723:TYR:O	2.13	0.48
2:CB:692:THR:HB	2:CB:693:PRO:HD2	1.96	0.48
3:CC:73:SER:O	3:CC:212:ILE:HD13	2.14	0.48
1:DA:697:TYR:CE1	1:DA:702:PRO:HD3	2.49	0.48
1:DA:713:VAL:HG23	1:DA:738:ASN:OD1	2.13	0.48
1:DA:1270:VAL:HB	9:DI:51:THR:CG2	2.42	0.48
2:DB:178:TYR:O	2:DB:182:GLN:HG2	2.13	0.48
2:DB:202:LEU:HD13	2:DB:500:PHE:CE2	2.48	0.48
2:DB:548:LYS:HA	2:DB:550:ARG:HH22	1.78	0.48
1:EA:596:HIS:CD2	1:EA:596:HIS:N	2.78	0.48
1:EA:1000:MET:SD	2:EB:520:LEU:O	2.72	0.48
1:EA:1019:LEU:HD21	1:EA:1194:GLY:CA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1191:GLN:C	1:EA:1193:VAL:H	2.21	0.48
2:EB:97:VAL:HG13	2:EB:141:LEU:HD11	1.95	0.48
2:EB:526:GLY:CA	2:EB:696:ILE:HG22	2.44	0.48
3:EC:285:PHE:C	3:EC:287:ASP:H	2.20	0.48
4:ED:89:LEU:O	4:ED:92:ILE:N	2.43	0.48
8:EH:102:TYR:HE2	8:EH:116:TYR:C	2.21	0.48
7:EO:290:GLU:HA	7:EO:293:LYS:HG3	1.95	0.48
1:FA:435:ASN:O	1:FA:438:ILE:N	2.47	0.48
1:FA:456:VAL:O	1:FA:460:LEU:HG	2.13	0.48
1:FA:554:ARG:O	1:FA:555:LYS:C	2.57	0.48
1:FA:1275:THR:HG22	9:FI:46:LYS:HB2	1.94	0.48
1:FA:1446:ARG:HH22	1:FA:1462:PHE:H	1.60	0.48
1:FA:1458:THR:HG21	1:FA:1475:GLU:HG2	1.95	0.48
5:FE:7:ARG:O	5:FE:11:ARG:HG3	2.14	0.48
12:FL:38:LEU:HD12	12:FL:49:LYS:HD3	1.95	0.48
1:AA:103:LEU:HD11	1:AA:243:PHE:HZ	1.79	0.48
1:AA:223:PHE:CE2	1:AA:227:LEU:HD11	2.48	0.48
1:AA:569:SER:OG	1:AA:570:THR:HG23	2.13	0.48
1:AA:1458:THR:HG23	1:AA:1473:LYS:O	2.13	0.48
1:AA:1623:THR:HA	1:AA:1626:VAL:HG22	1.94	0.48
2:AB:141:LEU:HD23	2:AB:450:LEU:HD11	1.96	0.48
2:AB:380:LYS:HG3	2:AB:637:TYR:CD2	2.49	0.48
2:AB:474:SER:C	2:AB:476:LEU:N	2.72	0.48
3:AC:195:LYS:HB2	10:AJ:57:ILE:CD1	2.43	0.48
1:BA:189:VAL:O	1:BA:193:ILE:HG13	2.13	0.48
1:BA:1073:TYR:CZ	1:BA:1077:LEU:HD22	2.49	0.48
1:BA:1218:GLY:O	1:BA:1222:LEU:HD22	2.14	0.48
1:BA:1457:ILE:HA	1:BA:1474:LEU:CD2	2.43	0.48
3:BC:71:MET:HE3	3:BC:71:MET:HB3	1.75	0.48
7:BG:125:TRP:CZ2	7:BG:127:PRO:HG3	2.49	0.48
8:BH:97:MET:N	8:BH:142:LEU:O	2.46	0.48
14:BN:66:LYS:HD3	8:DH:77:ARG:NH1	2.29	0.48
14:BN:124:THR:C	14:BN:126:LYS:H	2.22	0.48
1:CA:936:SER:O	1:CA:940:VAL:HG23	2.13	0.48
1:CA:1292:ILE:CD1	1:CA:1473:LYS:H	2.23	0.48
4:CD:94:ARG:HD2	4:CD:99:LEU:HD13	1.96	0.48
1:DA:864:LEU:HD11	1:DA:875:LEU:HA	1.95	0.48
1:DA:928:MET:HG3	1:DA:933:ALA:HB3	1.94	0.48
1:DA:1039:ARG:HB3	1:DA:1044:THR:O	2.14	0.48
1:DA:1458:THR:HG21	1:DA:1475:GLU:HG2	1.95	0.48
1:DA:1562:ILE:O	1:DA:1566:ILE:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:12:ARG:HH22	2:DB:17:ARG:NH2	2.08	0.48
2:DB:67:ASP:O	2:DB:68:ILE:HD13	2.13	0.48
5:DE:80:VAL:HG22	5:DE:109:ILE:HB	1.96	0.48
7:DO:300:VAL:O	7:DO:308:ILE:HG13	2.14	0.48
1:EA:1656:VAL:HG23	7:EG:107:ILE:HB	1.94	0.48
2:EB:104:ILE:HD12	2:EB:169:ARG:HG3	1.96	0.48
2:EB:125:GLU:O	2:EB:129:ARG:HB2	2.14	0.48
2:EB:575:HIS:HE2	13:EM:76:TYR:HH	1.48	0.48
2:EB:825:PHE:HE2	2:EB:899:GLN:HA	1.79	0.48
3:EC:250:CYS:O	3:EC:278:GLU:HB3	2.14	0.48
7:EG:46:TYR:HD1	7:EG:117:TRP:HD1	1.61	0.48
8:EH:5:LEU:O	8:EH:6:PHE:HB2	2.13	0.48
11:EK:115:ASP:O	11:EK:118:GLN:N	2.47	0.48
1:FA:395:LEU:HD13	7:FO:276:LYS:HB3	1.96	0.48
1:FA:657:TYR:O	1:FA:665:PRO:HA	2.14	0.48
1:FA:920:PHE:CD1	1:FA:921:PRO:HA	2.49	0.48
1:FA:992:PRO:HG3	2:FB:984:TRP:CE2	2.48	0.48
1:FA:1007:ILE:HG22	2:FB:515:THR:HG22	1.96	0.48
1:FA:1619:CYS:O	1:FA:1622:LEU:HB3	2.13	0.48
2:FB:389:CYS:HB2	2:FB:635:GLY:O	2.14	0.48
2:FB:703:LEU:HD21	2:FB:757:TYR:HD2	1.79	0.48
4:FD:90:LYS:HA	4:FD:93:GLN:HG2	1.96	0.48
5:FE:28:TYR:HA	5:FE:64:PRO:HA	1.96	0.48
7:FG:100:THR:C	7:FG:102:GLU:H	2.21	0.48
9:FI:95:ASN:HB2	9:FI:113:THR:HB	1.95	0.48
11:FK:125:MET:HA	11:FK:128:CYS:SG	2.53	0.48
14:FN:149:ASP:O	14:FN:153:VAL:HG12	2.14	0.48
2:AB:312:GLY:O	2:AB:316:ARG:HB2	2.14	0.48
3:AC:328:LEU:HD11	11:AK:65:ILE:HD11	1.96	0.48
7:AG:18:LYS:O	7:AG:20:HIS:N	2.47	0.48
2:BB:161:LEU:HD11	2:BB:409:TYR:CE2	2.48	0.48
2:BB:244:THR:O	2:BB:244:THR:OG1	2.29	0.48
2:BB:986:PHE:CD1	14:BN:160:VAL:HG21	2.48	0.48
3:BC:133:VAL:HG12	3:BC:170:GLU:HB2	1.96	0.48
5:BE:178:ILE:HD11	5:BE:182:ASP:HB3	1.96	0.48
8:BH:124:ARG:NH1	8:BH:126:GLU:OE1	2.47	0.48
1:CA:480:ALA:HB2	2:CB:1046:VAL:HG23	1.95	0.48
1:CA:759:TYR:CE1	1:CA:913:PRO:HG3	2.49	0.48
1:CA:937:ASN:HB3	9:CI:82:ILE:HD11	1.96	0.48
1:CA:1586:ALA:O	1:CA:1589:MET:N	2.47	0.48
2:CB:290:ASP:C	2:CB:292:ILE:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:586:VAL:O	2:CB:593:ILE:HG22	2.13	0.48
2:CB:848:ILE:HB	12:CL:60:ARG:HG3	1.95	0.48
3:CC:137:ASN:CG	3:CC:203:SER:HB2	2.38	0.48
7:CG:46:TYR:CD1	7:CG:117:TRP:CD1	3.02	0.48
8:CH:97:MET:N	8:CH:142:LEU:O	2.46	0.48
9:CI:13:CYS:HB3	9:CI:33:CYS:HB3	1.95	0.48
13:CM:77:VAL:HG21	14:CN:64:ILE:HD12	1.95	0.48
14:CN:55:LEU:HB2	14:CN:133:PHE:CZ	2.49	0.48
7:CO:287:GLU:O	7:CO:288:ASN:C	2.57	0.48
1:DA:596:HIS:CD2	1:DA:596:HIS:N	2.82	0.48
1:DA:729:LYS:HE3	1:DA:779:GLY:O	2.14	0.48
1:DA:1104:TYR:CE2	1:DA:1119:LYS:HD2	2.49	0.48
1:DA:1262:LEU:HD12	1:DA:1264:SER:OG	2.14	0.48
2:DB:787:MET:O	2:DB:788:ILE:HD13	2.14	0.48
2:DB:858:ILE:HG12	2:DB:872:LYS:O	2.14	0.48
9:DI:20:PRO:C	9:DI:22:ALA:H	2.22	0.48
1:EA:124:LEU:HD12	1:EA:133:SER:HA	1.94	0.48
1:EA:1292:ILE:CD1	1:EA:1473:LYS:H	2.24	0.48
2:EB:655:TYR:CE2	2:EB:657:PRO:HB2	2.49	0.48
3:EC:133:VAL:C	3:EC:134:LEU:HG	2.39	0.48
3:EC:277:ARG:HG3	3:EC:291:LEU:HD13	1.95	0.48
5:EE:43:LYS:O	5:EE:47:CYS:HB2	2.14	0.48
11:EK:54:THR:HG22	11:EK:61:ALA:CA	2.41	0.48
14:EN:75:GLU:H	14:EN:91:ASP:CG	2.22	0.48
1:FA:699:CYS:O	1:FA:812:VAL:HG22	2.13	0.48
1:FA:702:PRO:HD2	1:FA:703:GLU:OE2	2.14	0.48
1:FA:1224:GLU:HB3	1:FA:1233:ILE:HG22	1.96	0.48
1:FA:1260:LYS:HA	1:FA:1499:ARG:O	2.14	0.48
1:FA:1292:ILE:CD1	1:FA:1473:LYS:H	2.21	0.48
1:FA:1564:ASN:O	1:FA:1567:ASN:HB3	2.13	0.48
2:FB:205:MET:HB2	2:FB:502:MET:O	2.13	0.48
2:FB:381:LEU:O	2:FB:385:VAL:HG23	2.13	0.48
10:FJ:2:ILE:HG12	10:FJ:3:VAL:HG23	1.96	0.48
13:FM:12:ILE:CG2	14:FN:68:LYS:HA	2.44	0.48
1:AA:507:TYR:HB2	1:AA:637:PHE:CZ	2.49	0.48
1:AA:1263:LEU:HA	1:AA:1498:ILE:HD11	1.95	0.48
1:AA:1457:ILE:HA	1:AA:1474:LEU:HD22	1.96	0.48
2:AB:190:ILE:HG12	2:AB:191:GLY:N	2.29	0.48
2:AB:234:ILE:HB	2:AB:250:LEU:HB2	1.96	0.48
2:AB:533:THR:OG1	2:AB:534:PRO:HD2	2.13	0.48
2:AB:871:ILE:HD13	2:AB:873:THR:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:1130:ARG:NH2	2:AB:1195:ARG:HD2	2.29	0.48
5:AE:43:LYS:O	5:AE:47:CYS:HB2	2.14	0.48
1:BA:95:TYR:CZ	1:BA:245:LYS:HB3	2.49	0.48
1:BA:467:PHE:O	1:BA:471:MET:HB2	2.14	0.48
1:BA:885:ASP:O	1:BA:889:SER:HB3	2.14	0.48
1:BA:1226:VAL:HG22	1:BA:1598:PHE:CE1	2.49	0.48
2:BB:73:ILE:HG23	2:BB:74:PHE:N	2.28	0.48
3:BC:172:GLN:H	3:BC:175:GLN:HB2	1.78	0.48
3:BC:181:ASP:O	3:BC:183:PRO:HD3	2.14	0.48
1:CA:475:ARG:NH1	2:CB:1068:GLY:O	2.47	0.48
1:CA:818:THR:CG2	2:CB:780:GLY:HA3	2.43	0.48
1:CA:1200:MET:HE2	1:CA:1573:TYR:CG	2.49	0.48
1:CA:1446:ARG:HH12	1:CA:1462:PHE:HB3	1.79	0.48
2:CB:409:TYR:O	2:CB:413:LEU:HB2	2.14	0.48
2:CB:1018:THR:HB	2:CB:1020:GLU:OE1	2.14	0.48
3:CC:83:VAL:N	12:CL:67:PHE:O	2.40	0.48
7:CG:41:VAL:O	7:CG:122:LEU:HB2	2.14	0.48
8:CH:35:GLN:O	8:CH:127:GLY:HA2	2.14	0.48
1:DA:484:ILE:HG23	1:DA:631:ASP:O	2.14	0.48
1:DA:1067:GLU:C	1:DA:1069:CYS:N	2.70	0.48
1:DA:1191:GLN:C	1:DA:1193:VAL:H	2.20	0.48
1:DA:1258:ILE:O	1:DA:1501:ILE:HG13	2.13	0.48
1:DA:1272:VAL:C	9:DI:48:VAL:HG13	2.38	0.48
2:DB:48:SER:C	2:DB:406:GLY:HA3	2.39	0.48
2:DB:366:GLY:O	2:DB:367:SER:C	2.56	0.48
3:DC:110:PRO:HG3	3:DC:308:MET:HE2	1.96	0.48
7:DO:272:ILE:HG23	7:DO:275:ASN:HD22	1.77	0.48
1:EA:339:PHE:O	1:EA:1629:ASN:HB2	2.14	0.48
1:EA:659:THR:HG23	1:EA:664:SER:O	2.14	0.48
1:EA:669:LEU:HA	1:EA:669:LEU:HD23	1.55	0.48
1:EA:1173:LYS:O	1:EA:1177:SER:OG	2.23	0.48
2:EB:913:ILE:HD11	2:EB:929:ARG:N	2.29	0.48
2:EB:917:PHE:HD2	2:EB:1035:ARG:HA	1.78	0.48
5:EE:133:GLU:HB3	5:EE:135:PHE:CE1	2.49	0.48
9:EI:101:LEU:O	9:EI:106:GLU:HG2	2.14	0.48
13:EM:14:SER:O	13:EM:90:LEU:N	2.45	0.48
1:FA:13:SER:OG	1:FA:1631:ARG:NH1	2.46	0.48
1:FA:1104:TYR:HE2	1:FA:1119:LYS:HD2	1.79	0.48
1:FA:1484:LEU:CG	2:FB:308:LEU:HD11	2.39	0.48
2:FB:212:ASN:OD1	2:FB:239:VAL:HG13	2.13	0.48
2:FB:846:PRO:HG3	2:FB:858:ILE:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:964:VAL:O	2:FB:966:SER:N	2.47	0.48
2:FB:1117:VAL:HG21	2:FB:1162:GLY:N	2.29	0.48
3:FC:310:PRO:O	3:FC:313:ILE:N	2.47	0.48
1:AA:1446:ARG:HH12	1:AA:1462:PHE:HB3	1.79	0.47
2:AB:273:VAL:HA	2:AB:276:ILE:HD13	1.96	0.47
3:AC:121:PRO:O	3:AC:125:LYS:HB2	2.14	0.47
3:AC:133:VAL:HG12	3:AC:170:GLU:HB2	1.95	0.47
5:AE:178:ILE:HD11	5:AE:182:ASP:HB3	1.96	0.47
6:AF:97:ARG:HG2	6:AF:130:ILE:CD1	2.44	0.47
1:BA:457:LYS:C	1:BA:459:ALA:H	2.22	0.47
1:BA:722:PRO:CD	8:BH:46:LEU:HD13	2.44	0.47
2:BB:549:CYS:H	2:BB:550:ARG:NH1	2.12	0.47
5:BE:75:MET:HE1	5:BE:155:ARG:HH22	1.79	0.47
8:BH:38:LEU:HD12	8:BH:124:ARG:O	2.14	0.47
1:CA:719:ILE:HG22	1:CA:725:LEU:H	1.79	0.47
1:CA:892:LEU:HG	1:CA:893:ASP:N	2.29	0.47
5:CE:159:ASP:O	5:CE:163:GLU:HG2	2.14	0.47
6:CF:67:LYS:O	6:CF:71:GLU:HG3	2.14	0.47
1:DA:835:LEU:HG	1:DA:985:ARG:NH1	2.26	0.47
1:DA:992:PRO:HG3	2:DB:984:TRP:CE2	2.48	0.47
1:DA:1162:ASN:H	1:DA:1165:LYS:HD2	1.79	0.47
1:DA:1175:MET:O	1:DA:1178:LEU:HG	2.14	0.47
2:DB:73:ILE:HG23	2:DB:74:PHE:N	2.28	0.47
2:DB:850:THR:O	2:DB:881:TYR:HA	2.14	0.47
2:DB:979:GLN:HA	2:DB:979:GLN:OE1	2.13	0.47
2:DB:1048:SER:O	2:DB:1049:THR:OG1	2.31	0.47
5:DE:33:GLU:O	5:DE:36:GLU:N	2.47	0.47
7:DG:139:ILE:CD1	7:DG:140:GLN:H	2.27	0.47
12:DL:31:CYS:HA	12:DL:56:LEU:HD23	1.95	0.47
1:EA:386:LEU:O	1:EA:389:VAL:HB	2.14	0.47
1:EA:498:PRO:O	1:EA:501:PHE:HB2	2.14	0.47
1:EA:670:ILE:HD13	1:EA:670:ILE:N	2.28	0.47
1:EA:1006:LEU:O	1:EA:1010:ALA:HB3	2.14	0.47
1:EA:1130:ALA:HB1	6:EF:82:THR:HB	1.94	0.47
1:EA:1589:MET:HE2	1:EA:1598:PHE:HE1	1.79	0.47
2:EB:467:THR:HB	2:EB:469:ASN:ND2	2.24	0.47
2:EB:549:CYS:H	2:EB:550:ARG:NH1	2.12	0.47
2:EB:714:ARG:HG2	2:EB:959:THR:CG2	2.44	0.47
2:EB:895:PHE:O	2:EB:896:GLN:C	2.56	0.47
2:EB:1026:ILE:CD1	2:EB:1028:VAL:HG13	2.44	0.47
3:EC:67:PHE:CE1	3:EC:318:VAL:HG22	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:134:LEU:HD23	3:EC:169:PHE:HA	1.96	0.47
7:EG:80:VAL:HG12	7:EG:82:LEU:HD23	1.95	0.47
8:EH:88:SER:OG	8:EH:89:LEU:N	2.47	0.47
1:FA:669:LEU:HD22	1:FA:673:HIS:HD1	1.79	0.47
1:FA:709:ARG:C	1:FA:711:LYS:H	2.18	0.47
1:FA:854:GLY:O	1:FA:974:THR:HB	2.13	0.47
1:FA:1102:LEU:HD22	1:FA:1141:GLN:HE21	1.79	0.47
1:FA:1617:THR:CB	1:FA:1620:GLN:HG2	2.41	0.47
2:FB:472:SER:OG	2:FB:473:GLN:N	2.47	0.47
2:FB:772:VAL:HB	2:FB:946:ASP:OD2	2.14	0.47
2:FB:772:VAL:O	2:FB:946:ASP:HB2	2.13	0.47
2:FB:986:PHE:CD1	14:FN:160:VAL:HG21	2.49	0.47
7:FG:43:ILE:C	7:FG:43:ILE:HD12	2.39	0.47
12:FL:63:ARG:HG2	12:FL:64:LEU:N	2.25	0.47
14:FN:97:SER:HA	14:FN:104:LEU:O	2.14	0.47
1:AA:118:TYR:CD2	1:AA:223:PHE:HD1	2.33	0.47
1:AA:512:THR:O	1:AA:516:ILE:HB	2.14	0.47
1:AA:1202:LEU:HD22	9:AI:99:LEU:HD13	1.97	0.47
1:AA:1237:GLN:HB2	1:AA:1544:ASN:HB2	1.97	0.47
2:AB:66:LYS:C	2:AB:68:ILE:N	2.72	0.47
2:AB:323:ARG:O	2:AB:327:LEU:HG	2.14	0.47
10:AJ:6:ARG:HB3	10:AJ:11:GLY:O	2.13	0.47
1:BA:928:MET:HB2	1:BA:928:MET:HE2	1.83	0.47
1:BA:1200:MET:HG2	1:BA:1573:TYR:CD2	2.49	0.47
2:BB:97:VAL:O	2:BB:421:LEU:HD22	2.14	0.47
2:BB:577:PHE:HE2	13:BM:26:PHE:O	1.96	0.47
2:BB:853:GLU:HB3	2:BB:879:PRO:HB3	1.95	0.47
2:BB:1093:LEU:HD12	2:BB:1093:LEU:HA	1.64	0.47
3:BC:174:ARG:O	3:BC:178:THR:OG1	2.18	0.47
5:BE:22:MET:HA	5:BE:187:TYR:CZ	2.49	0.47
5:BE:80:VAL:HG22	5:BE:109:ILE:HB	1.96	0.47
7:BG:158:LYS:O	7:BG:162:ILE:HG13	2.14	0.47
11:BK:58:GLY:O	11:BK:60:SER:N	2.47	0.47
1:CA:603:HIS:NE2	1:CA:624:TYR:OH	2.44	0.47
1:CA:843:ARG:NE	1:CA:945:CYS:O	2.42	0.47
1:CA:1080:TYR:HB3	1:CA:1172:LEU:HD21	1.95	0.47
1:CA:1183:GLU:HA	6:CF:88:TYR:OH	2.14	0.47
2:CB:19:LEU:N	2:CB:19:LEU:HD23	2.29	0.47
2:CB:151:ASN:OD1	2:CB:151:ASN:N	2.46	0.47
2:CB:662:ASP:OD1	2:CB:663:ILE:N	2.47	0.47
1:DA:11:ILE:HD12	1:DA:11:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:250:LYS:HD3	1:DA:428:VAL:HG22	1.95	0.47
1:DA:441:THR:C	1:DA:443:ALA:H	2.21	0.47
1:DA:498:PRO:HA	1:DA:499:PRO:HD3	1.66	0.47
1:DA:1202:LEU:HD11	9:DI:101:LEU:HD21	1.96	0.47
1:DA:1248:ASP:O	1:DA:1251:ALA:HB3	2.14	0.47
1:DA:1291:VAL:HG22	1:DA:1473:LYS:CD	2.44	0.47
2:DB:219:ARG:HG2	2:DB:221:SER:HB3	1.95	0.47
2:DB:744:LEU:HD12	2:DB:745:GLN:H	1.79	0.47
2:DB:774:ALA:HA	2:DB:1028:VAL:HG12	1.96	0.47
2:DB:888:ILE:HG13	12:DL:55:ILE:HA	1.95	0.47
3:DC:136:LEU:HD13	3:DC:166:ASP:O	2.12	0.47
3:DC:321:LEU:HD11	11:DK:124:LEU:HD21	1.97	0.47
5:DE:177:ARG:HD3	5:DE:215:MET:HB2	1.95	0.47
7:DG:80:VAL:HG12	7:DG:82:LEU:CD2	2.44	0.47
14:DN:82:ILE:HB	14:DN:87:TYR:CE1	2.48	0.47
1:EA:513:ALA:O	1:EA:516:ILE:HG22	2.14	0.47
1:EA:527:PRO:HG3	1:EA:534:THR:HA	1.95	0.47
1:EA:996:TYR:CE2	1:EA:1000:MET:HE2	2.49	0.47
2:EB:260:PHE:C	2:EB:260:PHE:HD1	2.22	0.47
3:EC:223:SER:OG	10:EJ:12:LYS:HA	2.14	0.47
7:EO:306:SER:O	7:EO:308:ILE:N	2.47	0.47
1:FA:261:ILE:HG22	1:FA:265:ARG:HE	1.78	0.47
1:FA:1105:ARG:NH1	1:FA:1138:GLU:OE1	2.45	0.47
2:FB:216:ALA:C	2:FB:217:ILE:HD12	2.39	0.47
2:FB:476:LEU:HA	2:FB:476:LEU:HD23	1.55	0.47
10:FJ:3:VAL:CG1	10:FJ:15:GLY:HA2	2.44	0.47
1:AA:335:LEU:O	1:AA:339:PHE:HD1	1.98	0.47
1:AA:545:SER:C	1:AA:547:ILE:H	2.22	0.47
1:AA:669:LEU:H	1:AA:787:GLY:HA2	1.79	0.47
1:AA:1073:TYR:CZ	1:AA:1077:LEU:HD22	2.49	0.47
2:AB:290:ASP:O	2:AB:292:ILE:N	2.47	0.47
2:AB:660:LYS:HB3	2:AB:661:GLU:H	1.51	0.47
2:AB:840:LEU:HD11	2:AB:858:ILE:C	2.39	0.47
5:AE:64:PRO:HB3	5:AE:68:SER:HB2	1.96	0.47
7:AG:41:VAL:O	7:AG:122:LEU:HB2	2.13	0.47
1:BA:555:LYS:O	1:BA:558:ALA:HB3	2.14	0.47
1:BA:646:GLU:OE1	2:BB:1084:THR:HB	2.14	0.47
1:BA:1049:MET:HG2	1:BA:1054:ALA:HB2	1.95	0.47
2:BB:54:GLU:HB3	2:BB:55:GLY:H	1.55	0.47
2:BB:332:ASP:OD1	13:BM:114:LYS:HB2	2.14	0.47
5:BE:64:PRO:HB3	5:BE:68:SER:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:10:ILE:HG22	13:BM:11:GLU:N	2.28	0.47
1:CA:399:LEU:HD13	7:CO:271:PRO:HG2	1.95	0.47
1:CA:507:TYR:HB3	1:CA:579:ARG:NH1	2.28	0.47
1:CA:736:LEU:HD22	1:CA:736:LEU:HA	1.61	0.47
1:CA:966:LEU:HD23	1:CA:969:PHE:CD2	2.48	0.47
1:CA:1493:CYS:C	1:CA:1495:LYS:H	2.22	0.47
2:CB:548:LYS:HA	2:CB:550:ARG:HH22	1.79	0.47
2:CB:586:VAL:HG22	2:CB:640:LEU:HD23	1.96	0.47
3:CC:51:GLU:HB3	3:CC:303:GLU:HA	1.96	0.47
5:CE:3:GLN:O	5:CE:7:ARG:HG2	2.14	0.47
11:CK:53:ALA:HB1	11:CK:104:ARG:HH12	1.79	0.47
13:CM:80:LEU:HD22	14:CN:51:GLN:OE1	2.14	0.47
1:DA:1202:LEU:HD11	9:DI:101:LEU:CG	2.43	0.47
3:DC:201:GLU:C	3:DC:202:ILE:HD12	2.39	0.47
3:DC:250:CYS:HB3	3:DC:279:VAL:HG13	1.95	0.47
5:DE:28:TYR:HA	5:DE:64:PRO:HA	1.96	0.47
13:DM:30:PHE:CE1	13:DM:62:TYR:HE2	2.33	0.47
14:DN:124:THR:C	14:DN:126:LYS:H	2.23	0.47
1:EA:197:LEU:HD23	1:EA:202:THR:O	2.14	0.47
1:EA:250:LYS:HD3	1:EA:428:VAL:HG22	1.95	0.47
1:EA:624:TYR:O	1:EA:625:ASN:HB3	2.14	0.47
1:EA:729:LYS:HE3	1:EA:779:GLY:O	2.14	0.47
1:EA:1148:LEU:HD11	1:EA:1167:ARG:HB2	1.96	0.47
1:EA:1217:LEU:HD11	1:EA:1572:ARG:NE	2.29	0.47
1:EA:1260:LYS:HA	1:EA:1499:ARG:O	2.14	0.47
1:EA:1263:LEU:HA	1:EA:1498:ILE:HD11	1.96	0.47
2:EB:99:VAL:HG11	2:EB:139:LEU:HD13	1.96	0.47
2:EB:323:ARG:O	2:EB:327:LEU:HG	2.15	0.47
2:EB:713:PRO:HG3	9:EI:100:GLN:NE2	2.29	0.47
2:EB:956:SER:O	9:EI:107:GLY:HA2	2.13	0.47
3:EC:164:ALA:CB	3:EC:191:ILE:HB	2.43	0.47
9:EI:57:PRO:HA	9:EI:61:ARG:HG2	1.96	0.47
11:EK:117:LEU:O	11:EK:121:LEU:HB2	2.14	0.47
13:EM:26:PHE:CZ	13:EM:98:SER:HB2	2.49	0.47
7:EO:266:GLN:O	7:EO:267:ALA:C	2.56	0.47
1:FA:1240:LEU:HD23	1:FA:1541:ILE:HG23	1.96	0.47
1:FA:1272:VAL:CG1	1:FA:1273:THR:H	2.26	0.47
1:FA:1516:LYS:O	1:FA:1518:VAL:HB	2.15	0.47
2:FB:376:PHE:HB2	2:FB:592:ILE:HD11	1.97	0.47
2:FB:873:THR:HG1	2:FB:875:HIS:CD2	2.31	0.47
7:FG:41:VAL:HA	7:FG:42:PRO:HD3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FM:81:PHE:CD1	13:FM:88:ILE:HB	2.46	0.47
1:AA:1022:CYS:HA	1:AA:1615:TYR:OH	2.14	0.47
1:AA:1447:GLN:NE2	1:AA:1459:LYS:HG2	2.30	0.47
2:AB:151:ASN:OD1	2:AB:151:ASN:N	2.47	0.47
2:AB:161:LEU:HD12	2:AB:162:PRO:CD	2.41	0.47
2:AB:425:ILE:HG22	2:AB:426:ALA:N	2.29	0.47
2:AB:751:ILE:HG22	2:AB:770:ASN:OD1	2.14	0.47
2:AB:886:ASN:N	2:AB:902:SER:O	2.34	0.47
2:AB:1044:PHE:O	2:AB:1045:GLN:HB3	2.14	0.47
2:AB:1051:PRO:HA	7:AO:307:GLU:HB3	1.96	0.47
3:AC:112:MET:HE1	3:AC:182:CYS:SG	2.55	0.47
7:AG:29:ASP:O	7:AG:31:LYS:N	2.47	0.47
1:BA:1540:GLY:O	1:BA:1542:THR:N	2.44	0.47
2:BB:615:GLY:C	2:BB:617:THR:H	2.23	0.47
4:BD:24:ALA:HA	7:BG:43:ILE:HG22	1.96	0.47
13:BM:26:PHE:CZ	13:BM:98:SER:HB2	2.49	0.47
1:CA:67:LEU:HD13	1:CA:71:PHE:HB3	1.95	0.47
1:CA:93:GLN:HG3	1:CA:1627:LEU:HD13	1.96	0.47
1:CA:718:THR:O	8:CH:98:TYR:N	2.47	0.47
1:CA:719:ILE:O	1:CA:724:PRO:HA	2.14	0.47
1:CA:903:ILE:O	1:CA:907:VAL:HG23	2.14	0.47
1:CA:1028:GLU:HB3	1:CA:1187:ILE:HD11	1.95	0.47
1:CA:1472:PHE:O	1:CA:1473:LYS:HB3	2.13	0.47
2:CB:470:LEU:HD22	2:CB:484:TYR:HE1	1.80	0.47
2:CB:744:LEU:HD12	2:CB:745:GLN:H	1.79	0.47
2:CB:787:MET:O	2:CB:788:ILE:HD13	2.15	0.47
2:CB:913:ILE:HD11	2:CB:929:ARG:N	2.28	0.47
3:CC:195:LYS:HB2	10:CJ:57:ILE:HD11	1.97	0.47
4:CD:47:LYS:NZ	7:CG:67:ASN:HD21	2.13	0.47
5:CE:5:ASN:ND2	5:CE:52:ARG:HH21	2.06	0.47
1:DA:426:ALA:O	1:DA:430:ILE:HG22	2.14	0.47
1:DA:646:GLU:C	1:DA:648:LEU:H	2.22	0.47
1:DA:754:LYS:HB2	1:DA:782:ASP:OD2	2.14	0.47
1:DA:960:MET:O	1:DA:963:GLY:N	2.38	0.47
1:DA:1264:SER:HA	1:DA:1267:ILE:HD12	1.95	0.47
1:DA:1539:ASP:O	5:DE:147:HIS:CD2	2.68	0.47
2:DB:300:SER:OG	9:DI:47:VAL:HG12	2.15	0.47
2:DB:627:GLY:O	2:DB:641:TYR:N	2.47	0.47
2:DB:859:CYS:SG	2:DB:860:ALA:N	2.87	0.47
2:DB:985:ILE:O	14:DN:160:VAL:HG22	2.15	0.47
3:DC:59:ILE:HD11	3:DC:63:ILE:HB	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DF:76:LYS:HG3	6:DF:79:ARG:CZ	2.45	0.47
13:DM:81:PHE:CD1	13:DM:88:ILE:HB	2.48	0.47
14:DN:71:PRO:HD2	14:DN:89:ILE:HD11	1.95	0.47
1:EA:103:LEU:HD11	1:EA:243:PHE:HZ	1.79	0.47
1:EA:927:ALA:O	1:EA:931:SER:OG	2.12	0.47
1:EA:1451:ILE:HA	1:EA:1457:ILE:HB	1.96	0.47
2:EB:276:ILE:O	2:EB:280:LEU:HG	2.14	0.47
2:EB:1198:TYR:CD2	2:EB:1198:TYR:N	2.82	0.47
4:ED:33:THR:O	4:ED:36:VAL:HB	2.14	0.47
5:EE:154:ILE:HB	5:EE:197:LYS:HB3	1.95	0.47
5:EE:177:ARG:CZ	5:EE:179:GLN:HE22	2.28	0.47
6:EF:123:LYS:O	6:EF:126:ALA:HB3	2.15	0.47
7:EG:10:ASN:HB3	7:EG:11:ARG:H	1.52	0.47
9:EI:11:LEU:H	9:EI:11:LEU:HD12	1.78	0.47
10:EJ:2:ILE:HG12	10:EJ:3:VAL:HG23	1.97	0.47
1:FA:533:ALA:HB2	1:FA:579:ARG:HA	1.96	0.47
1:FA:678:VAL:HG22	1:FA:781:LEU:O	2.14	0.47
1:FA:1325:LEU:HD13	1:FA:1325:LEU:HA	1.72	0.47
1:FA:1485:MET:O	1:FA:1489:VAL:HG23	2.15	0.47
1:FA:1586:ALA:O	1:FA:1589:MET:N	2.46	0.47
1:FA:1589:MET:O	1:FA:1596:LEU:HB2	2.15	0.47
2:FB:72:VAL:HA	2:FB:95:LEU:O	2.14	0.47
2:FB:415:GLU:O	2:FB:418:ASP:HB3	2.15	0.47
2:FB:811:LEU:HD13	2:FB:823:GLN:NE2	2.24	0.47
3:FC:172:GLN:H	3:FC:175:GLN:CD	2.22	0.47
3:FC:228:ARG:NH1	14:FN:173:THR:H	2.13	0.47
6:FF:98:ALA:HB2	6:FF:118:LEU:HD13	1.97	0.47
7:FG:80:VAL:HG12	7:FG:82:LEU:HD23	1.96	0.47
8:FH:100:THR:O	8:FH:116:TYR:HA	2.14	0.47
12:FL:63:ARG:HH11	12:FL:63:ARG:HG3	1.80	0.47
2:AB:242:ASP:OD1	2:AB:244:THR:HG23	2.15	0.47
2:AB:359:LEU:HD22	2:AB:361:HIS:CE1	2.49	0.47
2:AB:768:GLY:C	2:AB:769:PHE:CD2	2.92	0.47
2:AB:1150:LYS:N	2:AB:1150:LYS:HZ2	2.12	0.47
5:AE:170:LEU:HD13	5:AE:175:LEU:HD23	1.97	0.47
7:AG:62:MET:HA	7:AG:66:LEU:HB2	1.96	0.47
1:BA:480:ALA:HB2	2:BB:1046:VAL:HG23	1.95	0.47
1:BA:703:GLU:CD	1:BA:703:GLU:H	2.22	0.47
1:BA:712:ILE:HD12	11:BK:88:PHE:CE1	2.50	0.47
1:BA:1292:ILE:CD1	1:BA:1473:LYS:H	2.17	0.47
1:BA:1487:ASN:O	1:BA:1490:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1603:MET:HE1	1:BA:1612:LYS:HA	1.96	0.47
2:BB:108:MET:SD	2:BB:120:LYS:HA	2.55	0.47
2:BB:895:PHE:O	2:BB:896:GLN:C	2.58	0.47
2:BB:960:ILE:O	2:BB:963:PHE:HB2	2.15	0.47
3:BC:227:TYR:CD1	3:BC:298:PHE:HD2	2.32	0.47
7:BG:50:ALA:HA	7:BG:113:PHE:CE2	2.48	0.47
1:CA:39:ASP:OD1	1:CA:41:LEU:N	2.46	0.47
1:CA:669:LEU:HA	1:CA:669:LEU:HD23	1.58	0.47
1:CA:1067:GLU:O	1:CA:1069:CYS:N	2.47	0.47
1:CA:1270:VAL:HB	9:CI:51:THR:CG2	2.45	0.47
1:CA:1276:THR:O	9:CI:44:ASN:HB3	2.14	0.47
1:CA:1538:VAL:HA	1:CA:1541:ILE:HD11	1.96	0.47
1:CA:1658:ALA:CB	7:CG:107:ILE:HD11	2.45	0.47
2:CB:622:ILE:H	2:CB:622:ILE:CD1	2.28	0.47
2:CB:891:GLU:HA	12:CL:54:ARG:HH11	1.78	0.47
2:CB:1002:LYS:NZ	14:CN:166:LEU:HD13	2.29	0.47
3:CC:62:SER:OG	3:CC:63:ILE:HD12	2.14	0.47
3:CC:75:VAL:HA	3:CC:76:PRO:HD3	1.76	0.47
3:CC:128:ASP:C	3:CC:130:ASN:N	2.73	0.47
3:CC:133:VAL:C	3:CC:134:LEU:HG	2.38	0.47
3:CC:146:ALA:HB2	3:CC:156:LEU:HA	1.96	0.47
14:CN:55:LEU:C	14:CN:56:ILE:HG13	2.40	0.47
1:DA:136:LEU:HD13	1:DA:189:VAL:HG23	1.95	0.47
1:DA:533:ALA:HB2	1:DA:579:ARG:HA	1.97	0.47
1:DA:603:HIS:NE2	1:DA:624:TYR:OH	2.46	0.47
1:DA:719:ILE:HG23	1:DA:723:TYR:O	2.14	0.47
1:DA:939:ASN:O	1:DA:942:GLN:HB2	2.14	0.47
2:DB:70:GLU:HG2	2:DB:97:VAL:C	2.39	0.47
2:DB:381:LEU:O	2:DB:385:VAL:HG23	2.15	0.47
3:DC:61:THR:HA	3:DC:298:PHE:CZ	2.50	0.47
7:DG:18:LYS:O	7:DG:20:HIS:N	2.47	0.47
13:DM:59:ARG:HD2	13:DM:60:LEU:HD21	1.97	0.47
1:EA:113:VAL:HG22	1:EA:182:LYS:HZ1	1.79	0.47
1:EA:659:THR:HG22	1:EA:666:VAL:HG22	1.96	0.47
1:EA:674:ILE:O	1:EA:678:VAL:HG23	2.14	0.47
1:EA:839:GLY:O	1:EA:842:TRP:HB2	2.15	0.47
1:EA:1136:VAL:HG22	1:EA:1174:TYR:CD1	2.49	0.47
2:EB:205:MET:HB2	2:EB:502:MET:O	2.15	0.47
2:EB:296:ASP:C	2:EB:298:LYS:N	2.72	0.47
2:EB:304:ASP:O	2:EB:308:LEU:HG	2.15	0.47
2:EB:757:TYR:CE2	2:EB:762:MET:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:807:GLU:O	2:EB:902:SER:OG	2.13	0.47
4:ED:88:GLN:NE2	4:ED:91:ARG:HH21	2.13	0.47
7:EG:40:ARG:HD3	7:EG:123:TYR:HE1	1.79	0.47
7:EG:91:ASP:OD2	7:EG:103:LYS:HG2	2.14	0.47
8:EH:123:MET:HE1	8:EH:142:LEU:HD22	1.96	0.47
14:EN:56:ILE:HG22	14:EN:57:LYS:H	1.80	0.47
7:EO:314:THR:HB	7:EO:316:GLU:CD	2.40	0.47
1:FA:473:GLY:HA2	2:FB:1071:VAL:O	2.15	0.47
1:FA:507:TYR:HB3	1:FA:579:ARG:NH1	2.30	0.47
1:FA:545:SER:C	1:FA:547:ILE:H	2.22	0.47
1:FA:669:LEU:HD13	1:FA:673:HIS:CG	2.49	0.47
1:FA:1437:ASN:OD1	1:FA:1439:MET:HE3	2.14	0.47
3:FC:199:GLY:HA3	10:FJ:66:LEU:HD22	1.95	0.47
14:FN:55:LEU:HD12	14:FN:56:ILE:N	2.29	0.47
1:AA:537:GLN:HE21	1:AA:541:GLY:HA2	1.79	0.47
1:AA:589:MET:SD	1:AA:635:MET:HG3	2.55	0.47
1:AA:816:LEU:HG	1:AA:817:PHE:N	2.27	0.47
1:AA:903:ILE:O	1:AA:907:VAL:HG23	2.14	0.47
1:AA:952:LEU:HD21	1:AA:1000:MET:O	2.15	0.47
1:AA:1324:LEU:HD22	1:AA:1492:ILE:HG23	1.97	0.47
2:AB:315:LYS:HG3	2:AB:316:ARG:N	2.28	0.47
2:AB:728:THR:OG1	2:AB:766:PRO:O	2.20	0.47
2:AB:848:ILE:HD12	2:AB:885:VAL:CG2	2.45	0.47
2:AB:939:SER:OG	2:AB:943:ILE:N	2.48	0.47
2:AB:1136:GLU:H	2:AB:1136:GLU:HG3	1.31	0.47
7:AG:29:ASP:OD1	7:AG:29:ASP:N	2.41	0.47
8:AH:12:VAL:HB	8:AH:53:ASP:H	1.79	0.47
9:AI:72:LYS:HB2	9:AI:73:LYS:HE3	1.95	0.47
14:AN:71:PRO:HD2	14:AN:89:ILE:HD11	1.95	0.47
2:BB:70:GLU:CD	2:BB:96:SER:HB2	2.39	0.47
2:BB:290:ASP:O	2:BB:292:ILE:N	2.47	0.47
2:BB:848:ILE:HD12	2:BB:885:VAL:HG21	1.96	0.47
2:BB:871:ILE:HD13	2:BB:873:THR:HG22	1.97	0.47
4:BD:14:THR:OG1	4:BD:16:LEU:HB2	2.13	0.47
4:BD:90:LYS:HA	4:BD:93:GLN:HG2	1.97	0.47
1:CA:335:LEU:O	1:CA:339:PHE:HD1	1.98	0.47
1:CA:1555:VAL:HG13	1:CA:1556:GLU:H	1.78	0.47
2:CB:561:ILE:HB	2:CB:562:PRO:HD3	1.97	0.47
2:CB:783:MET:O	2:CB:784:ASP:C	2.57	0.47
3:CC:228:ARG:HG3	3:CC:299:ILE:HD12	1.97	0.47
1:DA:703:GLU:CD	1:DA:703:GLU:H	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:719:ILE:HG22	1:DA:725:LEU:H	1.78	0.47
1:DA:907:VAL:HG12	1:DA:945:CYS:SG	2.55	0.47
1:DA:1021:ARG:O	1:DA:1025:LYS:HB2	2.15	0.47
1:DA:1597:ALA:O	1:DA:1602:GLY:HA3	2.14	0.47
2:DB:374:LEU:O	2:DB:378:ILE:HG12	2.14	0.47
2:DB:679:GLN:HG3	14:DN:155:VAL:O	2.14	0.47
2:DB:898:LEU:HD22	12:DL:46:VAL:HG22	1.97	0.47
2:DB:1043:LYS:HG2	2:DB:1063:ARG:HG2	1.96	0.47
5:DE:176:PRO:HB2	5:DE:212:ARG:CD	2.44	0.47
7:DG:41:VAL:HA	7:DG:42:PRO:HD3	1.76	0.47
1:EA:113:VAL:O	1:EA:116:HIS:HB3	2.15	0.47
1:EA:335:LEU:O	1:EA:339:PHE:HD1	1.98	0.47
1:EA:1290:TYR:O	1:EA:1473:LYS:HG3	2.15	0.47
2:EB:73:ILE:HG23	2:EB:74:PHE:N	2.30	0.47
2:EB:141:LEU:HD23	2:EB:450:LEU:HD11	1.95	0.47
2:EB:362:LEU:HB2	2:EB:370:LYS:HE2	1.96	0.47
2:EB:532:HIS:CD2	2:EB:700:LEU:HD22	2.50	0.47
2:EB:931:TRP:HA	2:EB:932:PRO:HD3	1.80	0.47
2:EB:1024:ALA:O	2:EB:1026:ILE:N	2.47	0.47
3:EC:54:PHE:CZ	3:EC:300:PHE:HB3	2.50	0.47
13:EM:16:GLN:HB3	13:EM:92:LYS:H	1.79	0.47
1:FA:10:GLU:CG	1:FA:1645:LYS:HE3	2.44	0.47
1:FA:819:ASN:O	1:FA:822:THR:OG1	2.32	0.47
1:FA:1451:ILE:HA	1:FA:1457:ILE:HB	1.96	0.47
2:FB:493:PHE:HE2	2:FB:762:MET:HE1	1.79	0.47
2:FB:795:GLU:OE2	3:FC:216:HIS:HA	2.15	0.47
3:FC:48:ASP:OD2	3:FC:50:ARG:N	2.46	0.47
3:FC:54:PHE:CE1	3:FC:300:PHE:HB3	2.49	0.47
5:FE:133:GLU:HB3	5:FE:135:PHE:CE1	2.47	0.47
7:FG:95:LEU:HD23	7:FG:95:LEU:HA	1.73	0.47
7:FG:140:GLN:HB3	7:FG:217:TRP:HD1	1.79	0.47
8:FH:128:ASN:OD1	8:FH:130:ARG:HB2	2.14	0.47
14:FN:124:THR:C	14:FN:126:LYS:H	2.22	0.47
1:AA:509:GLU:OE1	1:AA:579:ARG:NH2	2.40	0.47
1:AA:671:GLN:C	2:AB:952:HIS:CD2	2.93	0.47
1:AA:719:ILE:HG23	1:AA:723:TYR:O	2.14	0.47
1:AA:896:THR:HG21	1:AA:956:ARG:NH1	2.30	0.47
1:AA:966:LEU:HD11	1:AA:968:SER:HB3	1.95	0.47
1:AA:1066:PHE:HB3	1:AA:1147:PHE:CE2	2.50	0.47
1:AA:1067:GLU:C	1:AA:1069:CYS:N	2.72	0.47
1:AA:1170:MET:HA	1:AA:1173:LYS:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1263:LEU:O	1:AA:1265:GLU:N	2.47	0.47
1:AA:1457:ILE:HA	1:AA:1474:LEU:CD2	2.44	0.47
1:AA:1463:ASP:C	1:AA:1465:GLU:N	2.72	0.47
2:AB:125:GLU:O	2:AB:129:ARG:HB2	2.14	0.47
2:AB:293:ILE:HD12	2:AB:302:LEU:HB3	1.96	0.47
2:AB:807:GLU:O	2:AB:902:SER:OG	2.15	0.47
2:AB:870:LYS:HB2	2:AB:870:LYS:HE2	1.50	0.47
3:AC:102:GLY:HA3	12:AL:69:ALA:CB	2.44	0.47
3:AC:225:ALA:HB2	3:AC:302:VAL:HG13	1.96	0.47
3:AC:253:PRO:CG	14:AN:180:PHE:CD1	2.97	0.47
6:AF:138:LEU:O	6:AF:140:ASP:N	2.42	0.47
7:AG:158:LYS:HE3	7:AG:246:ASP:OD1	2.15	0.47
11:AK:47:ILE:HD11	11:AK:63:PHE:HB3	1.97	0.47
12:AL:61:THR:O	12:AL:63:ARG:N	2.48	0.47
14:AN:124:THR:C	14:AN:126:LYS:H	2.23	0.47
1:BA:480:ALA:HB1	1:BA:501:PHE:CZ	2.50	0.47
1:BA:519:LEU:HD13	1:BA:577:VAL:HB	1.95	0.47
1:BA:596:HIS:CD2	1:BA:596:HIS:N	2.80	0.47
1:BA:674:ILE:HG12	1:BA:783:LYS:HB2	1.95	0.47
1:BA:975:ASP:CG	1:BA:976:ALA:N	2.73	0.47
2:BB:260:PHE:HD2	2:BB:276:ILE:HG12	1.79	0.47
2:BB:425:ILE:HG22	2:BB:426:ALA:N	2.30	0.47
2:BB:470:LEU:HD22	2:BB:484:TYR:CE1	2.49	0.47
2:BB:548:LYS:HA	2:BB:550:ARG:NH2	2.30	0.47
2:BB:611:TRP:C	2:BB:620:LEU:HD21	2.39	0.47
2:BB:656:LEU:HD21	2:BB:689:VAL:HG12	1.97	0.47
2:BB:1058:GLN:H	2:BB:1058:GLN:HG3	1.48	0.47
3:BC:110:PRO:HG3	3:BC:308:MET:HE2	1.97	0.47
5:BE:127:ILE:HD11	5:BE:132:ILE:HD11	1.96	0.47
7:BG:53:TYR:HB3	7:BG:56:ASN:O	2.14	0.47
8:BH:63:LEU:HB3	8:BH:89:LEU:H	1.78	0.47
9:BI:13:CYS:HB3	9:BI:33:CYS:HB3	1.96	0.47
10:BJ:3:VAL:CG1	10:BJ:15:GLY:HA2	2.45	0.47
7:BO:276:LYS:C	7:BO:278:ILE:N	2.70	0.47
1:CA:10:GLU:CG	1:CA:1645:LYS:HE3	2.45	0.47
1:CA:93:GLN:HB2	1:CA:355:PHE:HE2	1.78	0.47
1:CA:126:GLN:NE2	1:CA:340:HIS:O	2.48	0.47
1:CA:545:SER:C	1:CA:547:ILE:H	2.23	0.47
1:CA:693:GLN:O	1:CA:696:ILE:HB	2.15	0.47
1:CA:956:ARG:HG2	1:CA:979:GLY:O	2.14	0.47
1:CA:1170:MET:HA	1:CA:1173:LYS:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1612:LYS:HB3	1:CA:1621:PHE:CG	2.49	0.47
1:CA:1621:PHE:O	1:CA:1624:LYS:HB2	2.15	0.47
2:CB:242:ASP:OD1	2:CB:244:THR:HG23	2.15	0.47
2:CB:323:ARG:O	2:CB:327:LEU:HG	2.15	0.47
2:CB:346:ASP:OD1	13:CM:113:ILE:HG23	2.15	0.47
2:CB:360:VAL:HA	2:CB:370:LYS:NZ	2.19	0.47
2:CB:534:PRO:O	2:CB:539:CYS:HA	2.14	0.47
2:CB:575:HIS:NE2	13:CM:76:TYR:OH	2.40	0.47
2:CB:960:ILE:O	2:CB:963:PHE:HB2	2.14	0.47
3:CC:48:ASP:OD2	3:CC:50:ARG:N	2.46	0.47
3:CC:67:PHE:O	3:CC:70:ILE:HB	2.15	0.47
3:CC:303:GLU:OE1	10:CJ:43:ARG:NH2	2.48	0.47
10:CJ:33:GLY:O	10:CJ:47:ARG:NH2	2.48	0.47
11:CK:135:PHE:CE2	11:CK:139:ILE:HG13	2.49	0.47
14:CN:56:ILE:HG22	14:CN:57:LYS:H	1.80	0.47
14:CN:58:PHE:CD1	14:CN:58:PHE:N	2.83	0.47
1:DA:735:VAL:O	1:DA:739:VAL:HG22	2.14	0.47
1:DA:885:ASP:O	1:DA:889:SER:HB3	2.14	0.47
1:DA:888:LYS:HG2	9:DI:67:VAL:HG21	1.97	0.47
1:DA:1028:GLU:HA	1:DA:1187:ILE:CG1	2.41	0.47
1:DA:1085:LEU:H	1:DA:1085:LEU:HG	1.50	0.47
1:DA:1229:ALA:CB	1:DA:1597:ALA:HB2	2.45	0.47
1:DA:1446:ARG:HH12	1:DA:1462:PHE:HB3	1.80	0.47
2:DB:196:VAL:HG13	2:DB:462:GLN:HG2	1.97	0.47
2:DB:463:TYR:CD1	2:DB:463:TYR:C	2.92	0.47
2:DB:468:GLY:O	2:DB:482:SER:HA	2.13	0.47
2:DB:716:MET:O	2:DB:719:CYS:HB2	2.14	0.47
2:DB:1077:ASP:O	2:DB:1080:ILE:HB	2.15	0.47
2:DB:1093:LEU:HD12	2:DB:1093:LEU:HA	1.62	0.47
3:DC:85:PHE:HA	3:DC:204:LEU:HD13	1.95	0.47
3:DC:134:LEU:HD23	3:DC:169:PHE:HA	1.97	0.47
3:DC:237:GLN:NE2	3:DC:288:LYS:HE2	2.29	0.47
6:DF:93:ILE:HD13	6:DF:93:ILE:HA	1.62	0.47
6:DF:100:GLN:HG2	7:DG:112:PRO:HB3	1.97	0.47
9:DI:103:SER:HB3	9:DI:104:ALA:H	1.59	0.47
1:EA:67:LEU:HD13	1:EA:71:PHE:HB3	1.97	0.47
1:EA:211:THR:O	1:EA:212:VAL:C	2.58	0.47
1:EA:699:CYS:O	1:EA:812:VAL:HG22	2.14	0.47
1:EA:707:THR:O	1:EA:708:THR:OG1	2.31	0.47
1:EA:1018:TYR:HD2	1:EA:1227:MET:HE1	1.80	0.47
1:EA:1056:ASP:OD1	1:EA:1058:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1058:THR:C	1:EA:1060:GLU:H	2.21	0.47
2:EB:379:ARG:CZ	2:EB:580:GLY:HA2	2.45	0.47
2:EB:612:LYS:HD2	2:EB:622:ILE:C	2.40	0.47
2:EB:887:LEU:O	2:EB:887:LEU:HD22	2.14	0.47
2:EB:954:PHE:N	2:EB:955:PRO:HD2	2.30	0.47
2:EB:962:MET:O	2:EB:965:GLU:N	2.47	0.47
2:EB:962:MET:O	2:EB:963:PHE:C	2.58	0.47
2:EB:1123:ILE:HD12	2:EB:1124:SER:H	1.79	0.47
3:EC:55:ASP:C	3:EC:56:LEU:HD23	2.40	0.47
4:ED:14:THR:OG1	4:ED:16:LEU:HB2	2.15	0.47
4:ED:82:LEU:HD22	7:EG:67:ASN:ND2	2.28	0.47
5:EE:170:LEU:HD13	5:EE:175:LEU:HD23	1.96	0.47
10:EJ:18:TRP:O	10:EJ:22:LEU:HG	2.15	0.47
1:FA:16:PHE:N	1:FA:16:PHE:CD1	2.83	0.47
1:FA:498:PRO:HA	1:FA:499:PRO:HD3	1.66	0.47
1:FA:631:ASP:OD1	1:FA:631:ASP:N	2.45	0.47
1:FA:748:ASN:N	1:FA:748:ASN:ND2	2.59	0.47
1:FA:1539:ASP:O	5:FE:147:HIS:CD2	2.68	0.47
1:FA:1617:THR:OG1	1:FA:1617:THR:O	2.33	0.47
2:FB:209:GLN:OE1	2:FB:237:ARG:HB2	2.15	0.47
2:FB:290:ASP:C	2:FB:292:ILE:H	2.22	0.47
2:FB:774:ALA:HA	2:FB:1028:VAL:CG1	2.45	0.47
2:FB:800:TYR:C	2:FB:800:TYR:CD2	2.93	0.47
2:FB:1052:VAL:HG22	7:FO:307:GLU:O	2.15	0.47
5:FE:152:LYS:HE3	5:FE:154:ILE:HD11	1.95	0.47
5:FE:178:ILE:HD12	5:FE:179:GLN:N	2.30	0.47
10:FJ:16:ASP:C	10:FJ:18:TRP:H	2.23	0.47
1:AA:1054:ALA:O	1:AA:1179:ILE:HG22	2.15	0.47
2:AB:38:LEU:H	2:AB:38:LEU:HD22	1.79	0.47
2:AB:190:ILE:HG12	2:AB:191:GLY:O	2.15	0.47
2:AB:349:VAL:O	2:AB:353:VAL:HG23	2.14	0.47
2:AB:398:GLN:HB3	2:AB:399:HIS:ND1	2.29	0.47
2:AB:902:SER:OG	2:AB:903:ILE:N	2.46	0.47
14:AN:178:GLU:C	14:AN:180:PHE:H	2.23	0.47
1:BA:1024:THR:O	1:BA:1028:GLU:N	2.48	0.47
1:BA:1553:TYR:CD1	5:BE:144:ILE:HB	2.50	0.47
1:BA:1559:ARG:HD2	1:BA:1587:ASP:OD1	2.15	0.47
2:BB:586:VAL:O	2:BB:593:ILE:HG22	2.15	0.47
1:CA:90:PHE:CE1	1:CA:1623:THR:HG23	2.49	0.47
1:CA:113:VAL:HG13	1:CA:182:LYS:CG	2.43	0.47
1:CA:431:GLN:O	1:CA:435:ASN:ND2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:484:ILE:HG23	1:CA:631:ASP:O	2.15	0.47
1:CA:721:LYS:H	8:CH:96:VAL:HB	1.80	0.47
1:CA:1060:GLU:O	1:CA:1061:SER:C	2.57	0.47
2:CB:141:LEU:HD23	2:CB:450:LEU:HD11	1.96	0.47
2:CB:234:ILE:HB	2:CB:250:LEU:HB2	1.95	0.47
3:CC:77:SER:OG	3:CC:78:VAL:N	2.47	0.47
11:CK:117:LEU:O	11:CK:121:LEU:HB2	2.15	0.47
1:DA:699:CYS:SG	1:DA:700:ILE:N	2.88	0.47
1:DA:1028:GLU:HB3	1:DA:1187:ILE:HD11	1.96	0.47
1:DA:1218:GLY:O	1:DA:1222:LEU:HD22	2.14	0.47
1:DA:1342:PRO:HD2	2:DB:272:PRO:HG3	1.96	0.47
2:DB:778:TYR:CE2	2:DB:937:PRO:HD3	2.50	0.47
2:DB:975:HIS:HE1	14:DN:167:LYS:O	1.98	0.47
3:DC:83:VAL:HG22	3:DC:206:ALA:HB1	1.96	0.47
3:DC:86:PHE:HE2	3:DC:205:LYS:HE3	1.80	0.47
3:DC:163:TYR:C	3:DC:193:LEU:HD22	2.40	0.47
3:DC:216:HIS:CE1	3:DC:218:LYS:HB3	2.50	0.47
6:DF:98:ALA:HB2	6:DF:118:LEU:HD13	1.97	0.47
8:DH:59:ILE:HG12	8:DH:141:TYR:O	2.15	0.47
8:DH:128:ASN:OD1	8:DH:130:ARG:HB2	2.14	0.47
12:DL:30:ILE:O	12:DL:57:LEU:HD12	2.14	0.47
1:EA:693:GLN:O	1:EA:696:ILE:HB	2.15	0.47
1:EA:803:PRO:O	1:EA:806:ALA:HB3	2.15	0.47
1:EA:855:ARG:NH1	1:EA:868:THR:O	2.45	0.47
1:EA:928:MET:HE2	1:EA:928:MET:HB2	1.79	0.47
2:EB:470:LEU:HD22	2:EB:484:TYR:CE1	2.50	0.47
2:EB:846:PRO:HG3	2:EB:858:ILE:O	2.14	0.47
3:EC:95:GLU:HG2	3:EC:96:VAL:N	2.29	0.47
3:EC:172:GLN:HB2	3:EC:175:GLN:NE2	2.29	0.47
3:EC:248:GLN:HG3	3:EC:256:ILE:O	2.15	0.47
4:ED:24:ALA:HA	7:EG:43:ILE:HA	1.96	0.47
7:EG:29:ASP:OD1	7:EG:29:ASP:N	2.43	0.47
7:EG:80:VAL:O	7:EG:124:VAL:HG13	2.15	0.47
1:FA:93:GLN:HG3	1:FA:1627:LEU:HD13	1.97	0.47
1:FA:603:HIS:NE2	1:FA:624:TYR:OH	2.43	0.47
1:FA:1095:LEU:HD21	1:FA:1134:GLY:HA3	1.97	0.47
2:FB:276:ILE:O	2:FB:280:LEU:HG	2.15	0.47
2:FB:611:TRP:C	2:FB:620:LEU:HD21	2.40	0.47
2:FB:979:GLN:OE1	2:FB:979:GLN:HA	2.15	0.47
10:FJ:6:ARG:HB3	10:FJ:11:GLY:O	2.14	0.47
1:AA:371:SER:HA	7:AO:310:TYR:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1217:LEU:HD11	1:AA:1572:ARG:CD	2.44	0.47
2:AB:913:ILE:HD11	2:AB:929:ARG:N	2.30	0.47
7:AG:82:LEU:HG	7:AG:124:VAL:HA	1.96	0.47
7:AG:105:ILE:HG23	7:AG:115:PHE:O	2.14	0.47
9:AI:20:PRO:C	9:AI:22:ALA:H	2.23	0.47
13:AM:65:TYR:O	13:AM:97:VAL:N	2.41	0.47
1:BA:534:THR:OG1	1:BA:535:GLN:HG2	2.15	0.47
1:BA:947:LEU:HB2	1:BA:982:VAL:HG21	1.96	0.47
2:BB:274:VAL:HA	2:BB:277:LEU:HD12	1.97	0.47
2:BB:346:ASP:H	13:BM:113:ILE:HG13	1.79	0.47
2:BB:728:THR:HG21	2:BB:765:PHE:HA	1.95	0.47
2:BB:843:ASP:HB2	2:BB:845:LEU:HD21	1.97	0.47
7:BG:105:ILE:HG23	7:BG:115:PHE:O	2.13	0.47
7:BG:139:ILE:CD1	7:BG:140:GLN:H	2.27	0.47
1:CA:480:ALA:HB2	2:CB:1046:VAL:HA	1.97	0.47
1:CA:928:MET:HE2	1:CA:928:MET:HB2	1.88	0.47
1:CA:1168:ALA:O	1:CA:1171:GLN:N	2.48	0.47
1:CA:1543:SER:OG	1:CA:1544:ASN:N	2.48	0.47
2:CB:14:ALA:HB2	2:CB:980:ASP:CB	2.44	0.47
2:CB:220:PRO:O	2:CB:223:ALA:HB3	2.15	0.47
2:CB:876:SER:C	2:CB:878:GLU:N	2.71	0.47
2:CB:971:ALA:O	2:CB:973:ALA:N	2.48	0.47
3:CC:131:THR:HG23	3:CC:209:ILE:HG22	1.97	0.47
1:DA:513:ALA:O	1:DA:516:ILE:HG22	2.15	0.47
1:DA:644:ARG:HH21	6:DF:118:LEU:HD23	1.79	0.47
1:DA:1342:PRO:HG3	2:DB:259:THR:HG22	1.97	0.47
2:DB:169:ARG:HD3	2:DB:169:ARG:HA	1.74	0.47
2:DB:562:PRO:HG3	2:DB:588:ILE:HD13	1.96	0.47
2:DB:652:PRO:O	2:DB:653:VAL:HG13	2.15	0.47
2:DB:858:ILE:HD13	2:DB:873:THR:O	2.14	0.47
2:DB:872:LYS:HD3	2:DB:872:LYS:HA	1.71	0.47
8:DH:5:LEU:CD2	8:DH:135:LEU:HD23	2.43	0.47
7:DO:266:GLN:HB3	7:DO:267:ALA:H	1.55	0.47
1:EA:81:LEU:C	1:EA:83:VAL:H	2.21	0.47
1:EA:713:VAL:HG23	1:EA:738:ASN:OD1	2.15	0.47
1:EA:1227:MET:HE2	1:EA:1227:MET:HB3	1.70	0.47
2:EB:59:GLY:O	2:EB:61:LEU:N	2.48	0.47
2:EB:474:SER:C	2:EB:476:LEU:N	2.73	0.47
2:EB:1136:GLU:H	2:EB:1136:GLU:HG3	1.40	0.47
5:EE:7:ARG:O	5:EE:11:ARG:HG3	2.15	0.47
10:EJ:3:VAL:HG12	10:EJ:15:GLY:HA2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:EK:59:THR:HA	11:EK:107:THR:HG23	1.96	0.47
1:FA:32:ILE:HG21	1:FA:49:LEU:HD23	1.97	0.47
1:FA:197:LEU:HD23	1:FA:202:THR:O	2.15	0.47
1:FA:510:PRO:HG2	6:FF:102:SER:OG	2.14	0.47
1:FA:780:ILE:C	1:FA:781:LEU:HD23	2.40	0.47
1:FA:829:GLY:HA2	2:FB:1027:TYR:CD2	2.50	0.47
1:FA:1022:CYS:SG	1:FA:1598:PHE:HB2	2.55	0.47
1:FA:1094:ALA:HB1	1:FA:1135:SER:HB2	1.97	0.47
2:FB:125:GLU:O	2:FB:129:ARG:HB2	2.14	0.47
2:FB:539:CYS:C	2:FB:541:LEU:H	2.22	0.47
3:FC:51:GLU:HB3	3:FC:303:GLU:HA	1.96	0.47
3:FC:174:ARG:O	3:FC:178:THR:OG1	2.14	0.47
1:AA:670:ILE:HD13	1:AA:670:ILE:H	1.80	0.47
1:AA:1102:LEU:HD12	1:AA:1105:ARG:HE	1.79	0.47
2:AB:274:VAL:HG11	2:AB:313:PHE:HB2	1.97	0.47
2:AB:389:CYS:HB2	2:AB:635:GLY:O	2.15	0.47
2:AB:527:PHE:CE2	2:AB:651:ARG:HD3	2.50	0.47
2:AB:898:LEU:HD22	12:AL:46:VAL:HG13	1.97	0.47
2:AB:1104:CYS:HB2	2:AB:1128:CYS:SG	2.54	0.47
3:AC:222:VAL:C	3:AC:224:THR:H	2.23	0.47
9:AI:113:THR:HG23	9:AI:120:LYS:HB3	1.97	0.47
14:AN:56:ILE:HG22	14:AN:57:LYS:H	1.79	0.47
1:BA:879:LEU:HD12	1:BA:972:TYR:HB3	1.97	0.47
1:BA:1117:SER:O	1:BA:1117:SER:OG	2.27	0.47
1:BA:1579:PHE:HA	1:BA:1582:LEU:HG	1.96	0.47
3:BC:69:ARG:HD3	11:BK:71:THR:OG1	2.15	0.47
11:BK:75:ALA:O	11:BK:79:VAL:HG23	2.15	0.47
13:BM:62:TYR:O	13:BM:63:GLU:HG3	2.15	0.47
1:CA:52:LEU:C	1:CA:54:LEU:N	2.72	0.47
1:CA:1451:ILE:HA	1:CA:1457:ILE:HB	1.96	0.47
1:CA:1559:ARG:O	1:CA:1563:VAL:HG23	2.15	0.47
2:CB:104:ILE:HD12	2:CB:169:ARG:HG3	1.96	0.47
2:CB:108:MET:SD	2:CB:120:LYS:HA	2.55	0.47
2:CB:548:LYS:HA	2:CB:550:ARG:CZ	2.45	0.47
2:CB:626:ILE:N	2:CB:668:GLU:OE2	2.47	0.47
2:CB:821:ILE:HD11	2:CB:899:GLN:OE1	2.15	0.47
3:CC:237:GLN:NE2	3:CC:288:LYS:HE2	2.29	0.47
6:CF:138:LEU:HB3	6:CF:140:ASP:OD1	2.15	0.47
8:CH:40:LEU:HD12	8:CH:41:ASP:N	2.30	0.47
13:CM:10:ILE:HG22	13:CM:11:GLU:N	2.30	0.47
14:CN:31:LYS:O	14:CN:33:LYS:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:93:GLN:HB2	1:DA:355:PHE:HE2	1.80	0.47
1:DA:416:ARG:O	1:DA:419:ILE:HB	2.15	0.47
2:DB:360:VAL:HA	2:DB:370:LYS:NZ	2.16	0.47
2:DB:373:MET:HE2	2:DB:592:ILE:HG13	1.97	0.47
5:DE:18:THR:HA	5:DE:21:GLU:OE1	2.15	0.47
10:DJ:6:ARG:HB3	10:DJ:11:GLY:O	2.13	0.47
1:EA:864:LEU:HD11	1:EA:875:LEU:HA	1.97	0.47
2:EB:523:GLU:H	2:EB:523:GLU:HG2	1.40	0.47
3:EC:201:GLU:C	3:EC:202:ILE:HD12	2.39	0.47
4:ED:94:ARG:HD2	4:ED:99:LEU:HD13	1.96	0.47
5:EE:71:LYS:NZ	5:EE:160:GLU:OE2	2.40	0.47
7:EG:140:GLN:HB3	7:EG:217:TRP:CD1	2.50	0.47
9:EI:94:MET:SD	9:EI:121:PHE:HE1	2.38	0.47
13:EM:89:GLN:O	13:EM:90:LEU:HD23	2.14	0.47
1:FA:669:LEU:HD23	1:FA:669:LEU:HA	1.56	0.47
1:FA:816:LEU:HG	1:FA:817:PHE:N	2.26	0.47
1:FA:855:ARG:HH12	1:FA:867:ASP:C	2.22	0.47
1:FA:1463:ASP:HB2	1:FA:1469:TRP:CD1	2.49	0.47
1:FA:1484:LEU:HD13	2:FB:305:ARG:CZ	2.44	0.47
2:FB:301:PHE:CD1	2:FB:302:LEU:HD23	2.49	0.47
2:FB:859:CYS:SG	2:FB:860:ALA:N	2.88	0.47
2:FB:1178:ILE:HD12	2:FB:1182:LEU:HB3	1.95	0.47
5:FE:41:ASP:O	5:FE:44:ALA:HB3	2.15	0.47
7:FG:165:ASP:OD2	7:FG:220:SER:HA	2.15	0.47
1:AA:18:ILE:HA	2:AB:1193:GLY:O	2.14	0.46
1:AA:748:ASN:HD22	1:AA:748:ASN:H	1.63	0.46
1:AA:819:ASN:O	1:AA:822:THR:OG1	2.33	0.46
1:AA:1060:GLU:O	1:AA:1061:SER:C	2.59	0.46
1:AA:1217:LEU:CD1	1:AA:1573:TYR:HE1	2.27	0.46
1:AA:1344:ILE:H	1:AA:1344:ILE:HD12	1.79	0.46
2:AB:262:PHE:O	2:AB:268:GLU:HG2	2.15	0.46
2:AB:1048:SER:OG	2:AB:1049:THR:N	2.49	0.46
3:AC:172:GLN:H	3:AC:175:GLN:HB2	1.80	0.46
4:AD:24:ALA:HA	7:AG:43:ILE:HA	1.97	0.46
8:AH:9:ILE:HD13	8:AH:56:THR:HG23	1.95	0.46
10:AJ:45:CYS:O	10:AJ:49:MET:HG2	2.15	0.46
13:AM:85:LYS:C	13:AM:87:SER:H	2.22	0.46
1:BA:498:PRO:HA	1:BA:499:PRO:HD3	1.75	0.46
1:BA:816:LEU:HG	1:BA:817:PHE:N	2.30	0.46
1:BA:976:ALA:HB1	1:BA:981:TYR:HB3	1.96	0.46
1:BA:1291:VAL:HG22	1:BA:1473:LYS:CD	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1450:ILE:O	1:BA:1454:HIS:ND1	2.39	0.46
1:BA:1617:THR:O	1:BA:1617:THR:OG1	2.33	0.46
2:BB:72:VAL:HG13	2:BB:95:LEU:O	2.14	0.46
2:BB:497:ILE:HD12	2:BB:497:ILE:HA	1.69	0.46
2:BB:970:LYS:HG2	2:BB:1000:LEU:HD21	1.96	0.46
2:BB:974:LEU:O	10:BJ:47:ARG:NH1	2.48	0.46
2:BB:1006:ASN:HB3	2:BB:1010:ASN:O	2.15	0.46
3:BC:67:PHE:CE1	3:BC:318:VAL:HG22	2.50	0.46
11:BK:117:LEU:O	11:BK:121:LEU:HB2	2.15	0.46
1:CA:113:VAL:HG11	1:CA:181:LEU:HD23	1.97	0.46
1:CA:223:PHE:CZ	1:CA:227:LEU:HD21	2.50	0.46
1:CA:1137:SER:HB2	5:CE:205:SER:HB2	1.96	0.46
1:CA:1200:MET:HG2	1:CA:1573:TYR:CD2	2.50	0.46
2:CB:260:PHE:CD1	2:CB:260:PHE:C	2.93	0.46
2:CB:286:ARG:HG2	13:CM:27:PHE:CG	2.50	0.46
2:CB:425:ILE:HG22	2:CB:426:ALA:N	2.30	0.46
2:CB:1073:GLU:O	2:CB:1076:ARG:HB3	2.15	0.46
2:CB:1186:ASP:OD2	2:CB:1198:TYR:OH	2.28	0.46
9:CI:99:LEU:HB2	9:CI:111:PHE:CZ	2.43	0.46
13:CM:51:PHE:O	13:CM:66:THR:HG23	2.15	0.46
1:DA:95:TYR:CZ	1:DA:245:LYS:HB3	2.50	0.46
1:DA:829:GLY:HA2	2:DB:1027:TYR:CD2	2.50	0.46
1:DA:1105:ARG:NH2	1:DA:1138:GLU:OE2	2.46	0.46
2:DB:104:ILE:HD12	2:DB:169:ARG:HG3	1.97	0.46
2:DB:211:ARG:N	2:DB:401:GLU:OE2	2.49	0.46
2:DB:276:ILE:O	2:DB:280:LEU:HG	2.14	0.46
2:DB:376:PHE:HB2	2:DB:592:ILE:HD11	1.97	0.46
2:DB:751:ILE:HG22	2:DB:770:ASN:OD1	2.15	0.46
2:DB:954:PHE:H	2:DB:955:PRO:HD2	1.80	0.46
5:DE:143:ASN:HB3	5:DE:146:HIS:CE1	2.50	0.46
7:DO:290:GLU:CD	7:DO:290:GLU:C	2.83	0.46
1:EA:32:ILE:HG23	1:EA:47:GLY:O	2.15	0.46
1:EA:719:ILE:HG23	1:EA:723:TYR:O	2.14	0.46
1:EA:1269:LYS:HD2	1:EA:1271:ILE:HD11	1.97	0.46
1:EA:1296:PHE:O	1:EA:1468:LYS:NZ	2.44	0.46
2:EB:567:SER:HB2	14:EN:59:PRO:CB	2.43	0.46
2:EB:832:TRP:HE3	2:EB:834:LYS:H	1.63	0.46
3:EC:328:LEU:HA	3:EC:328:LEU:HD13	1.50	0.46
5:EE:28:TYR:HA	5:EE:64:PRO:HA	1.97	0.46
11:EK:77:ARG:HG3	11:EK:78:TYR:N	2.30	0.46
1:FA:118:TYR:CD2	1:FA:223:PHE:HD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:426:ALA:O	1:FA:430:ILE:HG22	2.15	0.46
1:FA:527:PRO:HG3	1:FA:534:THR:HA	1.96	0.46
1:FA:719:ILE:HG23	1:FA:723:TYR:O	2.14	0.46
2:FB:428:VAL:O	2:FB:432:ILE:HD12	2.14	0.46
2:FB:838:GLU:C	2:FB:840:LEU:H	2.23	0.46
6:FF:106:PRO:HG2	7:FG:55:GLU:HG2	1.97	0.46
13:FM:62:TYR:O	13:FM:63:GLU:HG3	2.15	0.46
14:FN:97:SER:OG	14:FN:98:SER:N	2.48	0.46
1:AA:579:ARG:HG3	1:AA:579:ARG:HH11	1.80	0.46
1:AA:1220:PRO:O	1:AA:1223:ARG:HB2	2.16	0.46
2:AB:138:LEU:O	2:AB:139:LEU:HD23	2.15	0.46
2:AB:260:PHE:HD1	2:AB:261:ARG:N	2.13	0.46
2:AB:275:MET:SD	2:AB:330:LEU:HD21	2.56	0.46
2:AB:906:ARG:HD2	3:AC:93:GLN:HG3	1.96	0.46
2:AB:1120:ILE:HD11	7:BO:287:GLU:HG3	1.97	0.46
5:AE:64:PRO:HG2	5:AE:75:MET:HB3	1.97	0.46
13:AM:81:PHE:HB3	14:AN:52:GLN:O	2.15	0.46
1:BA:379:GLU:HB3	7:BO:292:HIS:CD2	2.51	0.46
1:BA:985:ARG:HG2	1:BA:988:SER:H	1.79	0.46
1:BA:1070:LEU:HD11	1:BA:1161:VAL:HG11	1.98	0.46
1:BA:1269:LYS:HD2	1:BA:1271:ILE:HD11	1.97	0.46
1:BA:1622:LEU:HD11	2:BB:1194:ILE:HD13	1.97	0.46
1:BA:1657:LEU:HA	7:BG:107:ILE:HG12	1.98	0.46
2:BB:379:ARG:CZ	2:BB:580:GLY:HA2	2.45	0.46
2:BB:397:THR:HA	2:BB:400:GLN:OE1	2.15	0.46
2:BB:1044:PHE:O	2:BB:1045:GLN:HB3	2.16	0.46
3:BC:245:ARG:H	3:BC:245:ARG:HD2	1.81	0.46
4:BD:33:THR:O	4:BD:36:VAL:HB	2.15	0.46
6:BF:97:ARG:HA	6:BF:100:GLN:HG3	1.97	0.46
9:BI:20:PRO:O	9:BI:22:ALA:N	2.48	0.46
14:BN:71:PRO:HD2	14:BN:89:ILE:HD11	1.97	0.46
1:CA:678:VAL:HG22	1:CA:781:LEU:O	2.14	0.46
1:CA:1450:ILE:O	1:CA:1454:HIS:ND1	2.41	0.46
1:CA:1564:ASN:O	1:CA:1567:ASN:HB3	2.15	0.46
2:CB:161:LEU:HD11	2:CB:409:TYR:CE2	2.50	0.46
2:CB:791:LYS:NZ	3:CC:215:ASP:O	2.48	0.46
7:CG:38:ILE:H	7:CG:38:ILE:HG13	1.20	0.46
10:CJ:16:ASP:C	10:CJ:18:TRP:H	2.22	0.46
13:CM:112:LYS:O	13:CM:113:ILE:HG13	2.15	0.46
1:DA:1102:LEU:CD1	1:DA:1105:ARG:HH21	2.29	0.46
2:DB:38:LEU:O	2:DB:40:GLU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:415:GLU:O	2:DB:418:ASP:HB3	2.15	0.46
2:DB:532:HIS:CE1	2:DB:544:HIS:CE1	3.03	0.46
2:DB:636:GLN:HG3	2:DB:637:TYR:N	2.30	0.46
2:DB:832:TRP:HE3	2:DB:834:LYS:H	1.61	0.46
3:DC:65:ASN:OD1	3:DC:68:ARG:NH1	2.47	0.46
3:DC:85:PHE:CG	3:DC:204:LEU:HD13	2.50	0.46
1:EA:188:TYR:O	1:EA:191:MET:N	2.48	0.46
1:EA:441:THR:C	1:EA:443:ALA:H	2.23	0.46
1:EA:754:LYS:HB2	1:EA:782:ASP:OD2	2.15	0.46
1:EA:835:LEU:HG	1:EA:985:ARG:NH1	2.26	0.46
1:EA:1238:MET:SD	1:EA:1524:VAL:HA	2.56	0.46
1:EA:1240:LEU:HD11	1:EA:1529:MET:SD	2.55	0.46
1:EA:1493:CYS:C	1:EA:1495:LYS:H	2.22	0.46
1:EA:1565:GLU:O	1:EA:1568:ASN:HB3	2.15	0.46
2:EB:492:ASN:OD1	2:EB:494:TYR:HB2	2.14	0.46
2:EB:526:GLY:N	2:EB:696:ILE:HG22	2.31	0.46
3:EC:59:ILE:HG12	3:EC:60:ASP:H	1.79	0.46
12:EL:33:GLU:HG3	12:EL:53:HIS:ND1	2.30	0.46
1:FA:618:TYR:HB3	1:FA:670:ILE:CD1	2.46	0.46
1:FA:663:GLY:O	1:FA:790:LYS:HE3	2.15	0.46
1:FA:1189:ALA:O	1:FA:1193:VAL:HG23	2.16	0.46
1:FA:1565:GLU:O	1:FA:1568:ASN:HB3	2.14	0.46
2:FB:122:TYR:CE2	2:FB:183:HIS:CD2	3.03	0.46
2:FB:260:PHE:HD1	2:FB:260:PHE:C	2.22	0.46
2:FB:944:GLN:HA	2:FB:945:PRO:HD3	1.73	0.46
2:FB:1026:ILE:O	2:FB:1026:ILE:HG13	2.13	0.46
2:FB:1058:GLN:HG3	2:FB:1058:GLN:H	1.48	0.46
2:FB:1093:LEU:HD11	2:FB:1179:PRO:HB3	1.97	0.46
3:FC:73:SER:O	3:FC:212:ILE:HD13	2.15	0.46
3:FC:75:VAL:HG12	3:FC:308:MET:HE1	1.96	0.46
1:AA:90:PHE:HE1	1:AA:1623:THR:HG23	1.81	0.46
1:AA:93:GLN:HB2	1:AA:355:PHE:HE2	1.78	0.46
1:AA:712:ILE:N	11:AK:106:GLN:OE1	2.39	0.46
1:AA:934:LYS:HB3	2:AB:955:PRO:HG2	1.97	0.46
2:AB:290:ASP:C	2:AB:292:ILE:H	2.24	0.46
2:AB:420:TYR:CE1	2:AB:424:ILE:HD11	2.50	0.46
3:AC:86:PHE:HE2	3:AC:205:LYS:HE3	1.81	0.46
4:AD:36:VAL:HG22	7:AG:38:ILE:HG21	1.96	0.46
8:AH:5:LEU:O	8:AH:6:PHE:HB2	2.15	0.46
14:AN:75:GLU:H	14:AN:91:ASP:CG	2.23	0.46
7:AO:300:VAL:HG23	7:AO:308:ILE:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:132:GLU:OE2	1:BA:201:ARG:NH2	2.49	0.46
1:BA:680:LEU:HD12	1:BA:820:TYR:CD1	2.50	0.46
1:BA:1553:TYR:HB3	5:BE:150:VAL:HG21	1.97	0.46
2:BB:548:LYS:HG2	2:BB:550:ARG:NH2	2.30	0.46
2:BB:559:SER:C	2:BB:561:ILE:H	2.24	0.46
2:BB:661:GLU:HG3	2:BB:662:ASP:N	2.30	0.46
2:BB:821:ILE:HD11	2:BB:899:GLN:OE1	2.16	0.46
4:BD:47:LYS:HD3	4:BD:82:LEU:HD13	1.96	0.46
14:BN:72:VAL:HG22	14:BN:137:PHE:CE1	2.51	0.46
1:CA:197:LEU:HD23	1:CA:202:THR:O	2.14	0.46
1:CA:476:VAL:HG21	2:CB:1091:ARG:HE	1.80	0.46
1:CA:515:ASN:ND2	1:CA:519:LEU:HD11	2.30	0.46
1:CA:596:HIS:CD2	1:CA:596:HIS:N	2.81	0.46
1:CA:1237:GLN:H	1:CA:1544:ASN:CB	2.26	0.46
1:CA:1326:GLU:O	1:CA:1330:VAL:HG23	2.16	0.46
1:CA:1539:ASP:O	5:CE:147:HIS:CD2	2.69	0.46
1:CA:1553:TYR:HD1	5:CE:144:ILE:HB	1.80	0.46
2:CB:219:ARG:HG2	2:CB:221:SER:HB3	1.97	0.46
2:CB:463:TYR:HE2	7:DG:174:GLU:HG3	1.80	0.46
2:CB:800:TYR:CD1	2:CB:910:THR:HG23	2.49	0.46
3:CC:172:GLN:H	3:CC:175:GLN:HB2	1.79	0.46
5:CE:120:ALA:O	5:CE:123:LEU:HB2	2.16	0.46
6:CF:72:LYS:HD2	6:CF:141:GLY:C	2.41	0.46
1:DA:13:SER:OG	1:DA:1631:ARG:NH1	2.49	0.46
1:DA:670:ILE:HD13	1:DA:670:ILE:N	2.31	0.46
1:DA:839:GLY:O	1:DA:842:TRP:HB2	2.16	0.46
1:DA:855:ARG:HH12	1:DA:867:ASP:C	2.24	0.46
1:DA:928:MET:HG2	2:DB:955:PRO:HG3	1.98	0.46
1:DA:1450:ILE:O	1:DA:1454:HIS:ND1	2.39	0.46
1:DA:1484:LEU:HD21	2:DB:304:ASP:HB3	1.98	0.46
2:DB:164:MET:HE2	2:DB:193:TYR:C	2.40	0.46
2:DB:210:ARG:NH2	2:DB:625:GLU:CD	2.73	0.46
2:DB:260:PHE:CD1	2:DB:260:PHE:C	2.94	0.46
2:DB:1047:ARG:CZ	2:DB:1059:PRO:HB3	2.45	0.46
3:DC:197:ARG:H	3:DC:200:GLN:NE2	2.12	0.46
7:DG:46:TYR:CD1	7:DG:117:TRP:HD1	2.34	0.46
8:DH:5:LEU:CB	8:DH:60:ALA:HA	2.34	0.46
8:DH:59:ILE:HG13	8:DH:142:LEU:HA	1.98	0.46
11:DK:54:THR:HG22	11:DK:61:ALA:CA	2.43	0.46
11:DK:80:ILE:HD13	11:DK:105:ILE:HD11	1.97	0.46
1:EA:505:LEU:HD13	1:EA:637:PHE:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:966:LEU:HD23	1:EA:969:PHE:CD2	2.50	0.46
1:EA:1095:LEU:HD21	1:EA:1134:GLY:HA3	1.97	0.46
5:EE:46:TYR:HA	5:EE:57:MET:HE2	1.97	0.46
14:EN:64:ILE:O	14:EN:66:LYS:N	2.49	0.46
1:FA:642:ASN:HB3	2:FB:1086:PHE:CD1	2.50	0.46
1:FA:693:GLN:CD	11:FK:88:PHE:HA	2.40	0.46
1:FA:1097:TYR:HD2	1:FA:1123:VAL:HG13	1.79	0.46
1:FA:1623:THR:HA	1:FA:1626:VAL:HG22	1.97	0.46
2:FB:156:ARG:HA	2:FB:156:ARG:HD2	1.49	0.46
2:FB:662:ASP:O	2:FB:663:ILE:HB	2.16	0.46
2:FB:837:LEU:HD22	2:FB:837:LEU:HA	1.60	0.46
2:FB:1150:LYS:N	2:FB:1150:LYS:HZ2	2.13	0.46
3:FC:83:VAL:HG13	3:FC:206:ALA:CB	2.42	0.46
5:FE:33:GLU:O	5:FE:36:GLU:N	2.49	0.46
7:FG:29:ASP:OD1	7:FG:29:ASP:N	2.40	0.46
7:FG:59:GLN:O	7:FG:62:MET:N	2.48	0.46
8:FH:94:ASP:N	8:FH:94:ASP:OD1	2.48	0.46
9:FI:121:PHE:H	9:FI:121:PHE:HD1	1.63	0.46
13:FM:10:ILE:HG22	13:FM:11:GLU:H	1.81	0.46
1:AA:1003:ARG:NH2	2:AB:533:THR:HG21	2.31	0.46
1:AA:1589:MET:HE2	1:AA:1598:PHE:HE1	1.81	0.46
2:AB:134:ARG:HB2	2:AB:161:LEU:C	2.41	0.46
2:AB:655:TYR:CE2	2:AB:657:PRO:HB2	2.51	0.46
2:AB:841:ASP:HB3	2:AB:843:ASP:OD1	2.15	0.46
2:AB:998:GLU:O	2:AB:1001:ALA:N	2.49	0.46
14:AN:64:ILE:C	14:AN:66:LYS:H	2.22	0.46
1:BA:214:ASP:OD2	5:BE:177:ARG:NH2	2.48	0.46
1:BA:795:HIS:O	1:BA:798:HIS:HB3	2.15	0.46
1:BA:1076:LEU:HD23	1:BA:1076:LEU:HA	1.77	0.46
2:BB:203:ILE:H	2:BB:203:ILE:HD12	1.80	0.46
2:BB:751:ILE:HG22	2:BB:770:ASN:OD1	2.15	0.46
8:BH:14:GLU:HG2	8:BH:15:VAL:N	2.30	0.46
8:BH:123:MET:HE1	8:BH:142:LEU:HD22	1.96	0.46
7:BO:288:ASN:O	7:BO:292:HIS:ND1	2.49	0.46
1:CA:457:LYS:C	1:CA:459:ALA:H	2.23	0.46
1:CA:1003:ARG:CZ	2:CB:520:LEU:HD22	2.45	0.46
1:CA:1224:GLU:HB3	1:CA:1233:ILE:HG22	1.97	0.46
1:CA:1226:VAL:HG22	1:CA:1598:PHE:CE1	2.51	0.46
1:CA:1454:HIS:HB2	1:CA:1457:ILE:HG13	1.98	0.46
2:CB:125:GLU:O	2:CB:129:ARG:HB2	2.16	0.46
2:CB:187:SER:CB	10:CJ:59:LYS:HZ3	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:825:PHE:HZ	2:CB:899:GLN:O	1.98	0.46
2:CB:1130:ARG:NH2	2:CB:1195:ARG:HD2	2.30	0.46
3:CC:66:ALA:O	3:CC:70:ILE:HG13	2.15	0.46
3:CC:71:MET:HE3	3:CC:313:ILE:HG22	1.98	0.46
3:CC:204:LEU:O	3:CC:204:LEU:HG	2.15	0.46
11:CK:46:LYS:HE3	11:CK:66:VAL:O	2.16	0.46
1:DA:23:GLU:OE1	2:DB:1195:ARG:NH1	2.47	0.46
1:DA:569:SER:OG	1:DA:570:THR:HG23	2.16	0.46
1:DA:571:HIS:CE1	1:DA:572:THR:HG23	2.50	0.46
1:DA:681:THR:O	1:DA:729:LYS:NZ	2.31	0.46
1:DA:1031:HIS:HB2	1:DA:1182:GLY:O	2.16	0.46
1:DA:1124:LEU:HD23	1:DA:1124:LEU:HA	1.71	0.46
2:DB:871:ILE:HD13	2:DB:873:THR:HG22	1.96	0.46
2:DB:996:PHE:HA	2:DB:999:GLN:HG3	1.98	0.46
2:DB:1047:ARG:NH1	2:DB:1050:GLY:H	2.13	0.46
4:DD:93:GLN:HG3	4:DD:94:ARG:N	2.30	0.46
5:DE:75:MET:HE1	5:DE:155:ARG:HH22	1.80	0.46
10:DJ:49:MET:HE3	10:DJ:49:MET:HB3	1.82	0.46
13:DM:10:ILE:HG22	13:DM:11:GLU:H	1.80	0.46
13:DM:10:ILE:HG22	13:DM:11:GLU:N	2.30	0.46
1:EA:611:GLU:CD	1:EA:615:ARG:HD2	2.40	0.46
1:EA:1490:GLU:O	1:EA:1493:CYS:HB2	2.16	0.46
2:EB:215:MET:O	2:EB:234:ILE:HD13	2.15	0.46
2:EB:260:PHE:HD2	2:EB:276:ILE:HG12	1.81	0.46
2:EB:264:TRP:NE1	2:EB:265:ARG:HG2	2.30	0.46
2:EB:346:ASP:CG	13:EM:113:ILE:HA	2.41	0.46
2:EB:393:ASN:ND2	2:EB:395:ASP:HB2	2.30	0.46
2:EB:843:ASP:OD1	2:EB:845:LEU:HG	2.16	0.46
2:EB:1110:ILE:HD13	2:EB:1111:LEU:HD23	1.97	0.46
2:EB:1130:ARG:NH2	2:EB:1195:ARG:HD2	2.30	0.46
2:EB:1151:ILE:HG22	2:EB:1152:PHE:N	2.30	0.46
3:EC:132:ILE:HD13	3:EC:132:ILE:HA	1.65	0.46
6:EF:86:THR:HG23	6:EF:89:GLU:OE1	2.15	0.46
6:EF:136:ARG:O	6:EF:143:PHE:HB2	2.15	0.46
14:EN:71:PRO:HD2	14:EN:89:ILE:HD11	1.96	0.46
1:FA:53:ALA:O	1:FA:54:LEU:HD23	2.16	0.46
1:FA:90:PHE:HE1	1:FA:1623:THR:HG23	1.80	0.46
1:FA:457:LYS:O	1:FA:459:ALA:N	2.48	0.46
1:FA:729:LYS:HE3	1:FA:779:GLY:O	2.14	0.46
1:FA:955:ARG:HB3	1:FA:955:ARG:HH11	1.80	0.46
2:FB:280:LEU:O	2:FB:323:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:286:ARG:HG2	13:FM:27:PHE:CD1	2.51	0.46
2:FB:475:GLY:C	2:FB:477:ASP:N	2.71	0.46
2:FB:582:SER:O	2:FB:598:HIS:NE2	2.49	0.46
2:FB:872:LYS:HA	2:FB:872:LYS:HD3	1.57	0.46
6:FF:118:LEU:HD13	6:FF:118:LEU:HA	1.80	0.46
14:FN:139:VAL:HB	14:FN:140:SER:H	1.27	0.46
1:AA:487:ASP:OD1	2:AB:781:TYR:OH	2.33	0.46
1:AA:816:LEU:HG	1:AA:817:PHE:HD1	1.80	0.46
1:AA:1101:THR:O	1:AA:1105:ARG:HB2	2.16	0.46
1:AA:1612:LYS:HD3	1:AA:1621:PHE:CD1	2.50	0.46
1:AA:1646:LEU:HD11	2:AB:1085:SER:HB3	1.98	0.46
2:AB:548:LYS:HA	2:AB:550:ARG:NH2	2.30	0.46
2:AB:970:LYS:HG2	2:AB:1000:LEU:HD21	1.97	0.46
3:AC:174:ARG:O	3:AC:178:THR:OG1	2.17	0.46
5:AE:56:LYS:HG3	5:AE:84:ASP:OD2	2.16	0.46
14:AN:109:LEU:O	14:AN:110:LEU:HD23	2.15	0.46
1:BA:395:LEU:HB2	7:BO:273:VAL:HG13	1.98	0.46
1:BA:683:LYS:HB2	8:BH:20:TYR:CE1	2.51	0.46
1:BA:1116:GLN:HB3	5:BE:207:ARG:HH21	1.80	0.46
1:BA:1619:CYS:O	1:BA:1622:LEU:HB3	2.15	0.46
2:BB:276:ILE:O	2:BB:280:LEU:HG	2.15	0.46
8:BH:94:ASP:OD1	8:BH:94:ASP:N	2.49	0.46
9:BI:60:LEU:HD23	9:BI:60:LEU:HA	1.77	0.46
1:CA:4:SER:HB2	1:CA:573:LEU:CD2	2.45	0.46
1:CA:197:LEU:HD21	1:CA:203:THR:O	2.16	0.46
1:CA:498:PRO:HA	1:CA:499:PRO:HD3	1.74	0.46
1:CA:735:VAL:O	1:CA:739:VAL:HG22	2.16	0.46
1:CA:756:LYS:C	1:CA:758:GLU:N	2.73	0.46
1:CA:782:ASP:CG	1:CA:783:LYS:N	2.74	0.46
1:CA:1101:THR:O	1:CA:1105:ARG:HB2	2.16	0.46
1:CA:1130:ALA:HB1	6:CF:82:THR:HB	1.98	0.46
1:CA:1216:THR:HB	1:CA:1221:ARG:HD3	1.98	0.46
2:CB:964:VAL:C	2:CB:966:SER:N	2.70	0.46
3:CC:61:THR:HA	3:CC:298:PHE:CZ	2.51	0.46
8:CH:33:GLN:HB2	8:CH:36:CYS:HB2	1.97	0.46
7:CO:280:PHE:O	7:CO:281:ASP:C	2.58	0.46
1:DA:239:PHE:CG	1:DA:260:GLN:HG2	2.50	0.46
1:DA:456:VAL:O	1:DA:460:LEU:HG	2.16	0.46
1:DA:672:ASP:HB2	2:DB:783:MET:HE3	1.98	0.46
1:DA:804:GLU:O	1:DA:805:VAL:C	2.58	0.46
1:DA:1057:ILE:H	1:DA:1057:ILE:HD12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1260:LYS:HA	1:DA:1499:ARG:O	2.16	0.46
1:DA:1344:ILE:H	1:DA:1344:ILE:HD12	1.80	0.46
3:DC:245:ARG:HD2	3:DC:245:ARG:N	2.30	0.46
5:DE:176:PRO:HB2	5:DE:212:ARG:HD3	1.98	0.46
6:DF:153:VAL:O	6:DF:154:ASP:HB2	2.15	0.46
7:DO:302:GLU:HB3	7:DO:303:ASP:H	1.59	0.46
1:EA:987:TYR:C	1:EA:987:TYR:HD2	2.24	0.46
2:EB:376:PHE:C	2:EB:376:PHE:CD2	2.92	0.46
2:EB:693:PRO:HB2	2:EB:984:TRP:CZ3	2.50	0.46
7:EG:87:LEU:HA	7:EG:120:VAL:HG23	1.98	0.46
7:EO:276:LYS:O	7:EO:280:PHE:HB2	2.15	0.46
1:FA:488:PRO:HD2	2:FB:781:TYR:CZ	2.50	0.46
1:FA:497:VAL:HG23	1:FA:606:ARG:O	2.15	0.46
1:FA:499:PRO:C	1:FA:501:PHE:N	2.74	0.46
1:FA:595:LEU:HD22	1:FA:595:LEU:HA	1.77	0.46
1:FA:1189:ALA:HA	1:FA:1192:SER:OG	2.16	0.46
2:FB:1047:ARG:HG3	2:FB:1068:GLY:HA2	1.98	0.46
3:FC:81:GLU:OE1	3:FC:81:GLU:HA	2.15	0.46
3:FC:209:ILE:HG12	3:FC:210:LEU:O	2.15	0.46
5:FE:152:LYS:C	5:FE:153:HIS:HD1	2.22	0.46
8:FH:12:VAL:HA	8:FH:28:ALA:HB2	1.98	0.46
8:FH:15:VAL:HG22	8:FH:26:ILE:HG12	1.96	0.46
9:FI:2:SER:O	9:FI:9:PHE:N	2.43	0.46
9:FI:109:THR:HG21	9:FI:122:ARG:NH1	2.30	0.46
1:AA:113:VAL:HG13	1:AA:182:LYS:CG	2.44	0.46
1:AA:113:VAL:HG11	1:AA:181:LEU:HD23	1.97	0.46
1:AA:832:ASP:OD2	1:AA:924:SER:OG	2.25	0.46
1:AA:850:SER:O	1:AA:853:THR:N	2.46	0.46
1:AA:1148:LEU:CD2	1:AA:1163:GLU:HG2	2.46	0.46
1:AA:1148:LEU:HD21	1:AA:1163:GLU:HG2	1.98	0.46
2:AB:209:GLN:OE1	2:AB:237:ARG:HB2	2.16	0.46
2:AB:260:PHE:CD1	2:AB:260:PHE:C	2.92	0.46
2:AB:534:PRO:O	2:AB:539:CYS:HA	2.14	0.46
2:AB:850:THR:O	2:AB:881:TYR:HA	2.15	0.46
3:AC:48:ASP:CG	3:AC:49:ALA:N	2.74	0.46
3:AC:110:PRO:HG3	3:AC:308:MET:HE2	1.96	0.46
3:AC:195:LYS:HE3	10:AJ:2:ILE:HD11	1.97	0.46
8:AH:40:LEU:HD12	8:AH:41:ASP:N	2.30	0.46
1:BA:93:GLN:HG3	1:BA:1627:LEU:HD13	1.97	0.46
1:BA:748:ASN:N	1:BA:748:ASN:ND2	2.57	0.46
1:BA:830:MET:HE3	2:BB:967:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1562:ILE:O	1:BA:1566:ILE:HG13	2.15	0.46
2:BB:211:ARG:NH2	2:BB:243:GLN:OE1	2.36	0.46
2:BB:234:ILE:HB	2:BB:250:LEU:HB2	1.97	0.46
2:BB:262:PHE:O	2:BB:268:GLU:HG2	2.15	0.46
2:BB:705:PRO:HG3	2:BB:920:ARG:CZ	2.45	0.46
2:BB:714:ARG:HG2	2:BB:959:THR:CG2	2.45	0.46
2:BB:778:TYR:CE2	2:BB:937:PRO:HD3	2.51	0.46
2:BB:1047:ARG:NH2	2:BB:1059:PRO:HB3	2.31	0.46
2:BB:1153:ILE:HD12	2:BB:1154:ASP:H	1.80	0.46
7:BG:140:GLN:HB3	7:BG:217:TRP:CD1	2.51	0.46
11:BK:53:ALA:HB1	11:BK:104:ARG:HH12	1.80	0.46
1:CA:530:TRP:CZ2	1:CA:607:VAL:HG21	2.51	0.46
1:CA:602:GLY:O	1:CA:653:THR:HG22	2.16	0.46
1:CA:1612:LYS:HD3	1:CA:1621:PHE:CD1	2.51	0.46
2:CB:770:ASN:O	10:CJ:48:ARG:NE	2.48	0.46
2:CB:850:THR:N	2:CB:882:ILE:HG13	2.20	0.46
3:CC:254:GLY:O	3:CC:268:LYS:HB2	2.15	0.46
9:CI:94:MET:SD	9:CI:121:PHE:HE1	2.39	0.46
9:CI:95:ASN:HB2	9:CI:113:THR:HB	1.97	0.46
1:DA:1076:LEU:HD23	1:DA:1076:LEU:HA	1.72	0.46
1:DA:1102:LEU:HD12	1:DA:1102:LEU:HA	1.61	0.46
1:DA:1164:LYS:O	1:DA:1167:ARG:HB3	2.15	0.46
1:DA:1262:LEU:O	1:DA:1265:GLU:HB2	2.16	0.46
2:DB:561:ILE:HB	2:DB:562:PRO:HD3	1.98	0.46
2:DB:854:GLU:HG3	2:DB:875:HIS:HA	1.98	0.46
2:DB:1060:VAL:HG22	2:DB:1061:LYS:H	1.80	0.46
3:DC:97:LEU:O	3:DC:100:ARG:HB2	2.15	0.46
3:DC:223:SER:OG	10:DJ:12:LYS:HA	2.16	0.46
3:DC:253:PRO:C	3:DC:255:VAL:H	2.24	0.46
5:DE:56:LYS:HG3	5:DE:84:ASP:OD2	2.16	0.46
7:DG:105:ILE:HG23	7:DG:115:PHE:O	2.16	0.46
10:DJ:2:ILE:HG12	10:DJ:3:VAL:HG23	1.96	0.46
1:EA:10:GLU:HG3	1:EA:1645:LYS:HE3	1.97	0.46
1:EA:211:THR:HB	5:EE:173:SER:HB2	1.98	0.46
1:EA:467:PHE:O	1:EA:471:MET:HB2	2.16	0.46
1:EA:727:THR:OG1	1:EA:729:LYS:N	2.44	0.46
1:EA:756:LYS:C	1:EA:758:GLU:N	2.73	0.46
1:EA:903:ILE:O	1:EA:907:VAL:HG23	2.16	0.46
1:EA:964:LYS:HE2	1:EA:964:LYS:HB3	1.60	0.46
1:EA:1003:ARG:CZ	2:EB:520:LEU:HD22	2.46	0.46
1:EA:1555:VAL:HG13	1:EA:1556:GLU:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:212:ASN:OD1	2:EB:239:VAL:HG13	2.15	0.46
2:EB:257:GLN:HG3	2:EB:316:ARG:HH22	1.81	0.46
2:EB:296:ASP:O	2:EB:298:LYS:N	2.49	0.46
2:EB:306:LEU:HD23	2:EB:310:LEU:HG	1.98	0.46
2:EB:800:TYR:CD1	2:EB:910:THR:HG23	2.51	0.46
2:EB:838:GLU:C	2:EB:840:LEU:H	2.23	0.46
2:EB:848:ILE:HD12	2:EB:885:VAL:HG21	1.97	0.46
2:EB:954:PHE:H	2:EB:955:PRO:HD2	1.80	0.46
3:EC:51:GLU:HB3	3:EC:303:GLU:HA	1.96	0.46
4:ED:22:ILE:H	7:EG:76:LYS:NZ	2.12	0.46
7:EG:41:VAL:O	7:EG:122:LEU:HB2	2.15	0.46
1:FA:475:ARG:NH1	2:FB:1068:GLY:O	2.49	0.46
1:FA:987:TYR:C	1:FA:987:TYR:HD2	2.23	0.46
1:FA:1326:GLU:O	1:FA:1330:VAL:HG23	2.15	0.46
2:FB:194:PHE:O	2:FB:200:GLU:HA	2.16	0.46
2:FB:850:THR:N	2:FB:882:ILE:HG13	2.17	0.46
3:FC:95:GLU:HG2	3:FC:96:VAL:N	2.31	0.46
3:FC:103:LEU:HB2	10:FJ:5:VAL:HG11	1.98	0.46
3:FC:198:PRO:O	10:FJ:64:ASN:ND2	2.41	0.46
3:FC:230:LEU:HD11	3:FC:270:ALA:HB3	1.97	0.46
7:FG:66:LEU:HD11	7:FG:87:LEU:HD22	1.97	0.46
8:FH:59:ILE:HG13	8:FH:142:LEU:HA	1.97	0.46
10:FJ:48:ARG:HB3	10:FJ:48:ARG:HH11	1.81	0.46
13:FM:70:SER:O	13:FM:74:ASN:HB2	2.16	0.46
7:FO:266:GLN:HB3	7:FO:267:ALA:H	1.52	0.46
1:AA:113:VAL:HG22	1:AA:182:LYS:CE	2.45	0.46
1:AA:250:LYS:HD3	1:AA:428:VAL:HG22	1.98	0.46
1:AA:369:LEU:HD12	2:AB:1054:SER:HB2	1.98	0.46
1:AA:372:LYS:CB	7:AO:297:LEU:HD22	2.46	0.46
1:AA:1021:ARG:O	1:AA:1025:LYS:HB2	2.16	0.46
1:AA:1321:PHE:HD1	1:AA:1496:SER:OG	1.99	0.46
1:AA:1603:MET:HE1	1:AA:1612:LYS:HA	1.97	0.46
1:AA:1637:PRO:CB	1:AA:1647:ASN:HD21	2.27	0.46
2:AB:459:SER:O	2:AB:462:GLN:N	2.49	0.46
2:AB:1178:ILE:HD12	2:AB:1182:LEU:HB3	1.98	0.46
7:AG:58:LEU:HD23	7:AG:58:LEU:HA	1.61	0.46
7:AG:80:VAL:HG12	7:AG:82:LEU:HD23	1.96	0.46
8:AH:100:THR:O	8:AH:116:TYR:HA	2.16	0.46
1:BA:406:LEU:CD2	7:BO:270:LEU:HD11	2.46	0.46
1:BA:584:ARG:HD3	6:BF:116:ASP:HB2	1.98	0.46
1:BA:955:ARG:HB3	1:BA:955:ARG:HH11	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1457:ILE:HA	1:BA:1474:LEU:HD22	1.97	0.46
2:BB:467:THR:HB	2:BB:469:ASN:ND2	2.27	0.46
2:BB:1048:SER:OG	2:BB:1049:THR:N	2.39	0.46
3:BC:134:LEU:HD23	3:BC:169:PHE:HA	1.97	0.46
3:BC:136:LEU:HD22	3:BC:167:LEU:HA	1.97	0.46
3:BC:245:ARG:HD2	3:BC:245:ARG:N	2.31	0.46
5:BE:133:GLU:HB3	5:BE:135:PHE:CE1	2.49	0.46
14:BN:31:LYS:O	14:BN:33:LYS:N	2.49	0.46
1:CA:855:ARG:HH12	1:CA:867:ASP:C	2.24	0.46
1:CA:1073:TYR:HD2	1:CA:1074:TYR:CE2	2.33	0.46
1:CA:1556:GLU:HG3	5:CE:153:HIS:NE2	2.31	0.46
2:CB:999:GLN:NE2	14:CN:166:LEU:HD21	2.31	0.46
3:CC:333:ILE:HD12	3:CC:333:ILE:HA	1.65	0.46
8:CH:59:ILE:HG13	8:CH:142:LEU:HA	1.98	0.46
8:CH:100:THR:O	8:CH:116:TYR:HA	2.16	0.46
14:CN:109:LEU:O	14:CN:110:LEU:HD23	2.15	0.46
1:DA:62:CYS:HB2	1:DA:72:CYS:SG	2.55	0.46
1:DA:345:LEU:H	1:DA:345:LEU:HG	1.36	0.46
1:DA:507:TYR:HB3	1:DA:579:ARG:HH12	1.81	0.46
1:DA:806:ALA:O	1:DA:809:VAL:N	2.49	0.46
1:DA:818:THR:CG2	2:DB:780:GLY:HA3	2.46	0.46
1:DA:1238:MET:O	1:DA:1521:THR:HG23	2.16	0.46
2:DB:273:VAL:O	2:DB:277:LEU:HD12	2.15	0.46
2:DB:295:ASN:HB3	14:DN:104:LEU:HD13	1.98	0.46
2:DB:307:GLU:OE2	2:DB:311:ARG:NH1	2.45	0.46
2:DB:409:TYR:O	2:DB:413:LEU:HB2	2.15	0.46
2:DB:906:ARG:HD2	3:DC:93:GLN:HG3	1.97	0.46
2:DB:908:ARG:NH2	12:DL:70:ARG:OXT	2.48	0.46
2:DB:1136:GLU:H	2:DB:1136:GLU:HG3	1.32	0.46
1:EA:674:ILE:HG12	1:EA:783:LYS:HB2	1.97	0.46
1:EA:1184:ALA:O	1:EA:1186:GLY:N	2.49	0.46
1:EA:1463:ASP:O	1:EA:1465:GLU:N	2.45	0.46
2:EB:783:MET:O	2:EB:784:ASP:C	2.59	0.46
3:EC:75:VAL:HG12	3:EC:308:MET:HE1	1.97	0.46
11:EK:68:GLU:HG2	11:EK:72:LEU:HD23	1.98	0.46
14:EN:72:VAL:HG22	14:EN:137:PHE:HE1	1.79	0.46
14:EN:149:ASP:O	14:EN:153:VAL:HG12	2.16	0.46
7:EO:273:VAL:CG1	7:EO:274:SER:N	2.75	0.46
1:FA:50:TYR:OH	1:FA:370:PRO:HG3	2.15	0.46
1:FA:670:ILE:HD13	1:FA:670:ILE:N	2.29	0.46
1:FA:896:THR:HG21	1:FA:956:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1238:MET:HG3	1:FA:1524:VAL:HG22	1.97	0.46
2:FB:302:LEU:HD11	2:FB:379:ARG:CZ	2.45	0.46
2:FB:483:GLY:C	2:FB:484:TYR:HD2	2.23	0.46
5:FE:159:ASP:O	5:FE:163:GLU:HG2	2.16	0.46
13:FM:16:GLN:CB	13:FM:91:TYR:HA	2.46	0.46
13:FM:65:TYR:C	13:FM:65:TYR:CD2	2.94	0.46
1:AA:603:HIS:HE2	1:AA:624:TYR:HH	1.62	0.46
1:AA:659:THR:HG22	1:AA:666:VAL:HG22	1.97	0.46
1:AA:748:ASN:N	1:AA:748:ASN:ND2	2.57	0.46
1:AA:1007:ILE:HG22	2:AB:515:THR:HG22	1.98	0.46
1:AA:1566:ILE:HG13	1:AA:1566:ILE:H	1.15	0.46
2:AB:73:ILE:HG23	2:AB:74:PHE:N	2.30	0.46
2:AB:894:LYS:HA	12:AL:54:ARG:NH1	2.30	0.46
8:AH:123:MET:HE1	8:AH:142:LEU:HD22	1.98	0.46
1:BA:335:LEU:O	1:BA:339:PHE:HD1	1.98	0.46
1:BA:1094:ALA:HB1	1:BA:1135:SER:HB2	1.98	0.46
2:BB:140:LYS:HE2	2:BB:153:PHE:CD2	2.51	0.46
2:BB:708:ASP:OD1	2:BB:708:ASP:N	2.47	0.46
2:BB:886:ASN:N	2:BB:902:SER:O	2.39	0.46
7:BG:67:ASN:O	7:BG:70:VAL:HG23	2.16	0.46
12:BL:64:LEU:HD12	12:BL:65:VAL:N	2.31	0.46
1:CA:127:TYR:HD1	1:CA:202:THR:HG21	1.81	0.46
1:CA:426:ALA:O	1:CA:430:ILE:HG22	2.16	0.46
1:CA:429:THR:HG21	7:CO:274:SER:CB	2.46	0.46
1:CA:674:ILE:CG2	1:CA:931:SER:HB2	2.46	0.46
1:CA:674:ILE:HG22	1:CA:675:SER:N	2.30	0.46
1:CA:692:TYR:O	1:CA:696:ILE:HG12	2.14	0.46
1:CA:724:PRO:O	1:CA:725:LEU:HD23	2.15	0.46
1:CA:790:LYS:C	1:CA:792:GLY:H	2.24	0.46
1:CA:1024:THR:O	1:CA:1028:GLU:N	2.48	0.46
1:CA:1325:LEU:HD13	1:CA:1325:LEU:HA	1.68	0.46
2:CB:286:ARG:HG2	13:CM:27:PHE:CD1	2.51	0.46
2:CB:660:LYS:HB3	2:CB:661:GLU:H	1.52	0.46
2:CB:731:VAL:HG11	10:CJ:59:LYS:HB3	1.97	0.46
3:CC:172:GLN:HB2	3:CC:175:GLN:NE2	2.31	0.46
6:CF:119:ARG:HA	6:CF:122:MET:HG3	1.96	0.46
13:CM:33:PRO:HG2	13:CM:57:ASN:ND2	2.31	0.46
1:DA:499:PRO:C	1:DA:501:PHE:N	2.73	0.46
1:DA:905:SER:OG	1:DA:906:GLN:N	2.48	0.46
2:DB:122:TYR:CE2	2:DB:183:HIS:CD2	3.04	0.46
2:DB:423:ASN:O	2:DB:426:ALA:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:542:LEU:HD23	2:DB:542:LEU:HA	1.79	0.46
2:DB:744:LEU:HD12	2:DB:800:TYR:O	2.16	0.46
2:DB:1058:GLN:H	2:DB:1058:GLN:HG3	1.46	0.46
3:DC:88:ASN:O	12:DL:60:ARG:NH1	2.47	0.46
3:DC:128:ASP:C	3:DC:130:ASN:N	2.72	0.46
3:DC:133:VAL:HG12	3:DC:170:GLU:HB2	1.97	0.46
3:DC:203:SER:O	3:DC:204:LEU:HB3	2.14	0.46
3:DC:216:HIS:ND1	3:DC:218:LYS:HB3	2.30	0.46
10:DJ:21:TYR:CZ	10:DJ:25:LEU:HD11	2.51	0.46
7:DO:315:SER:O	7:DO:315:SER:OG	2.32	0.46
1:EA:95:TYR:CZ	1:EA:245:LYS:HB3	2.50	0.46
1:EA:507:TYR:HB2	1:EA:637:PHE:CZ	2.51	0.46
1:EA:732:ILE:H	1:EA:732:ILE:HG12	1.31	0.46
1:EA:828:CYS:SG	2:EB:963:PHE:HZ	2.39	0.46
1:EA:1291:VAL:HA	1:EA:1473:LYS:HB2	1.96	0.46
1:EA:1446:ARG:HH12	1:EA:1462:PHE:HB3	1.80	0.46
1:EA:1564:ASN:O	1:EA:1567:ASN:HB3	2.16	0.46
3:EC:146:ALA:HB2	3:EC:156:LEU:HA	1.98	0.46
8:EH:14:GLU:HG2	8:EH:15:VAL:N	2.31	0.46
1:FA:993:GLN:CD	2:FB:676:VAL:HG21	2.41	0.46
1:FA:1326:GLU:HG2	1:FA:1456:PHE:HD2	1.80	0.46
1:FA:1585:ILE:O	1:FA:1589:MET:HG3	2.15	0.46
2:FB:210:ARG:NH2	2:FB:625:GLU:CD	2.74	0.46
2:FB:702:ASN:OD1	2:FB:756:LEU:HD13	2.16	0.46
2:FB:778:TYR:CE2	2:FB:937:PRO:HD3	2.51	0.46
2:FB:1060:VAL:HG22	2:FB:1061:LYS:N	2.30	0.46
3:FC:191:ILE:O	3:FC:193:LEU:HD13	2.16	0.46
3:FC:209:ILE:HD13	3:FC:209:ILE:H	1.80	0.46
5:FE:127:ILE:HD11	5:FE:132:ILE:CD1	2.46	0.46
9:FI:10:CYS:HB2	9:FI:17:LEU:HD21	1.98	0.46
1:AA:1032:VAL:O	1:AA:1182:GLY:N	2.49	0.46
1:AA:1124:LEU:HD23	1:AA:1124:LEU:HA	1.75	0.46
1:AA:1262:LEU:HD12	1:AA:1264:SER:OG	2.15	0.46
1:AA:1451:ILE:HA	1:AA:1457:ILE:HB	1.98	0.46
2:AB:505:ARG:HG3	2:AB:541:LEU:HD23	1.96	0.46
2:AB:526:GLY:CA	2:AB:696:ILE:HG22	2.46	0.46
2:AB:787:MET:O	2:AB:788:ILE:HD13	2.16	0.46
3:AC:71:MET:HE3	3:AC:71:MET:HB3	1.84	0.46
1:BA:507:TYR:HB3	1:BA:579:ARG:NH1	2.31	0.46
1:BA:527:PRO:HG3	1:BA:534:THR:HA	1.98	0.46
1:BA:547:ILE:C	1:BA:549:MET:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1324:LEU:HD22	1:BA:1492:ILE:HG23	1.98	0.46
2:BB:338:PHE:CZ	2:BB:353:VAL:HG13	2.51	0.46
6:BF:93:ILE:HD13	6:BF:93:ILE:HA	1.63	0.46
13:BM:30:PHE:CE1	13:BM:62:TYR:HE2	2.34	0.46
13:BM:70:SER:O	13:BM:74:ASN:HB2	2.16	0.46
1:CA:727:THR:OG1	1:CA:729:LYS:N	2.43	0.46
1:CA:780:ILE:H	1:CA:780:ILE:HG13	1.62	0.46
1:CA:1189:ALA:O	1:CA:1193:VAL:HG23	2.16	0.46
1:CA:1603:MET:O	1:CA:1606:SER:N	2.43	0.46
1:CA:1640:ARG:O	1:CA:1643:VAL:N	2.49	0.46
2:CB:201:LYS:NZ	2:CB:466:SER:HA	2.31	0.46
2:CB:604:ILE:O	2:CB:608:LEU:HG	2.15	0.46
2:CB:714:ARG:HG2	2:CB:959:THR:CG2	2.46	0.46
2:CB:916:LYS:HE3	2:CB:1040:VAL:HG13	1.97	0.46
2:CB:1077:ASP:O	2:CB:1080:ILE:HB	2.16	0.46
3:CC:228:ARG:HH12	14:CN:172:ALA:HB1	1.80	0.46
6:CF:69:LEU:O	6:CF:72:LYS:HB2	2.15	0.46
7:CG:41:VAL:HA	7:CG:42:PRO:HD3	1.77	0.46
7:CG:163:PRO:HB2	7:CG:166:TRP:CD1	2.51	0.46
14:CN:75:GLU:C	14:CN:91:ASP:HB3	2.41	0.46
1:DA:669:LEU:H	1:DA:787:GLY:HA2	1.81	0.46
1:DA:1229:ALA:HB1	1:DA:1595:TYR:CD2	2.51	0.46
2:DB:14:ALA:HB3	2:DB:978:ALA:O	2.16	0.46
2:DB:210:ARG:HB2	2:DB:399:HIS:C	2.41	0.46
2:DB:326:VAL:O	2:DB:330:LEU:HG	2.16	0.46
2:DB:501:ARG:NH2	2:DB:546:ALA:O	2.49	0.46
3:DC:222:VAL:C	3:DC:224:THR:H	2.24	0.46
11:DK:78:TYR:OH	11:DK:82:LYS:NZ	2.38	0.46
1:EA:16:PHE:N	1:EA:16:PHE:CD1	2.83	0.46
1:EA:892:LEU:HG	1:EA:893:ASP:N	2.30	0.46
1:EA:1196:PRO:C	1:EA:1198:THR:H	2.22	0.46
1:EA:1546:VAL:O	1:EA:1549:VAL:N	2.49	0.46
1:EA:1608:SER:OG	1:EA:1632:GLU:OE1	2.33	0.46
1:EA:1637:PRO:CB	1:EA:1647:ASN:HD21	2.29	0.46
2:EB:36:PRO:O	2:EB:39:GLN:HG3	2.16	0.46
2:EB:286:ARG:HG2	13:EM:27:PHE:CG	2.51	0.46
2:EB:359:LEU:HD23	2:EB:359:LEU:HA	1.58	0.46
2:EB:665:GLY:N	2:EB:668:GLU:OE1	2.48	0.46
3:EC:140:CYS:HB2	3:EC:196:LEU:HD13	1.97	0.46
7:EG:50:ALA:HA	7:EG:113:PHE:CE2	2.51	0.46
9:EI:13:CYS:HB3	9:EI:33:CYS:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:892:LEU:HG	1:FA:893:ASP:N	2.31	0.46
1:FA:903:ILE:O	1:FA:907:VAL:HG23	2.16	0.46
1:FA:1104:TYR:CE2	1:FA:1119:LYS:HD2	2.51	0.46
1:FA:1182:GLY:O	1:FA:1183:GLU:C	2.59	0.46
1:FA:1239:THR:HG23	1:FA:1520:VAL:HG13	1.96	0.46
1:FA:1481:GLU:O	1:FA:1482:LYS:C	2.58	0.46
1:FA:1512:PRO:HB3	1:FA:1517:ARG:HA	1.98	0.46
1:FA:1621:PHE:O	1:FA:1624:LYS:HB2	2.16	0.46
2:FB:54:GLU:HB3	2:FB:55:GLY:H	1.58	0.46
2:FB:302:LEU:HD11	2:FB:379:ARG:NH1	2.31	0.46
2:FB:571:ALA:HA	2:FB:572:PRO:HD3	1.75	0.46
2:FB:853:GLU:HB3	2:FB:879:PRO:HB3	1.98	0.46
2:FB:1086:PHE:O	2:FB:1089:GLN:N	2.49	0.46
3:FC:173:GLY:C	3:FC:175:GLN:H	2.24	0.46
1:AA:727:THR:OG1	1:AA:728:GLY:N	2.49	0.46
1:AA:1057:ILE:H	1:AA:1057:ILE:HD12	1.80	0.46
1:AA:1273:THR:HA	9:AI:48:VAL:HG22	1.98	0.46
2:AB:1198:TYR:H	2:AB:1198:TYR:HD2	1.61	0.46
3:AC:59:ILE:HG12	3:AC:60:ASP:H	1.79	0.46
3:AC:70:ILE:HG21	3:AC:317:SER:HA	1.99	0.46
3:AC:77:SER:OG	3:AC:78:VAL:N	2.49	0.46
3:AC:136:LEU:HD22	3:AC:167:LEU:HA	1.98	0.46
4:AD:22:ILE:HD12	7:AG:45:LEU:HA	1.98	0.46
5:AE:47:CYS:HG	5:AE:52:ARG:C	2.24	0.46
7:AG:132:VAL:HG23	7:AG:232:THR:HB	1.96	0.46
10:AJ:18:TRP:CZ2	10:AJ:53:HIS:HD2	2.34	0.46
1:BA:1175:MET:HE2	1:BA:1175:MET:HB3	1.69	0.46
1:BA:1246:VAL:HG22	1:BA:1250:GLN:NE2	2.30	0.46
1:BA:1264:SER:O	9:BI:56:PHE:HB3	2.16	0.46
2:BB:19:LEU:HD21	10:BJ:25:LEU:HB3	1.98	0.46
2:BB:219:ARG:HG2	2:BB:221:SER:HB3	1.98	0.46
2:BB:323:ARG:O	2:BB:327:LEU:HG	2.15	0.46
2:BB:768:GLY:HA3	2:BB:1032:TYR:CZ	2.51	0.46
2:BB:1007:TYR:CG	3:BC:281:ARG:HD3	2.51	0.46
3:BC:45:SER:HB3	3:BC:53:ASN:HB3	1.97	0.46
3:BC:84:TYR:HB3	12:BL:64:LEU:HD11	1.97	0.46
3:BC:285:PHE:C	3:BC:287:ASP:H	2.24	0.46
1:CA:11:ILE:CG2	2:CB:1198:TYR:HB2	2.45	0.46
1:CA:492:THR:HG23	1:CA:811:SER:OG	2.16	0.46
1:CA:1596:LEU:HD22	1:CA:1602:GLY:HA2	1.97	0.46
2:CB:381:LEU:O	2:CB:385:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:642:LEU:HD22	2:CB:642:LEU:HA	1.76	0.46
2:CB:661:GLU:HG3	2:CB:662:ASP:N	2.26	0.46
3:CC:82:TYR:O	3:CC:207:HIS:N	2.47	0.46
3:CC:88:ASN:O	12:CL:60:ARG:NH1	2.46	0.46
7:CG:73:TYR:CD2	7:CG:238:THR:HB	2.51	0.46
11:CK:51:THR:O	11:CK:54:THR:OG1	2.32	0.46
14:CN:93:THR:HG22	14:CN:99:LEU:HD11	1.97	0.46
1:DA:472:MET:HB3	2:DB:1076:ARG:HD3	1.98	0.46
1:DA:753:ASN:ND2	1:DA:767:ASN:O	2.49	0.46
1:DA:826:PHE:H	2:DB:776:ILE:HD11	1.81	0.46
1:DA:1055:ILE:HD13	1:DA:1055:ILE:HA	1.83	0.46
2:DB:570:VAL:HG13	2:DB:596:VAL:HG13	1.97	0.46
2:DB:1076:ARG:O	2:DB:1080:ILE:HG13	2.15	0.46
2:DB:1119:ARG:HD2	2:DB:1119:ARG:HA	1.52	0.46
2:DB:1178:ILE:O	2:DB:1178:ILE:HG13	2.15	0.46
3:DC:316:LYS:O	3:DC:320:ILE:N	2.43	0.46
9:DI:65:SER:OG	9:DI:66:VAL:N	2.48	0.46
1:EA:1262:LEU:O	1:EA:1265:GLU:HB2	2.16	0.46
2:EB:275:MET:SD	2:EB:330:LEU:HD21	2.56	0.46
2:EB:626:ILE:N	2:EB:668:GLU:OE2	2.48	0.46
2:EB:660:LYS:HB3	2:EB:661:GLU:H	1.50	0.46
2:EB:699:ILE:HD13	2:EB:699:ILE:N	2.29	0.46
2:EB:888:ILE:HG13	12:EL:54:ARG:O	2.16	0.46
5:EE:40:GLU:HA	5:EE:43:LYS:HE3	1.98	0.46
5:EE:127:ILE:HD11	5:EE:132:ILE:CD1	2.46	0.46
7:EG:29:ASP:C	7:EG:31:LYS:N	2.73	0.46
7:EG:165:ASP:OD2	7:EG:220:SER:HA	2.15	0.46
14:EN:54:TRP:CZ2	14:EN:135:LYS:HD2	2.51	0.46
1:FA:480:ALA:HB2	2:FB:1046:VAL:HA	1.97	0.46
1:FA:756:LYS:C	1:FA:758:GLU:N	2.73	0.46
1:FA:1270:VAL:HB	9:FI:51:THR:CG2	2.46	0.46
1:FA:1271:ILE:HG22	9:FI:48:VAL:HG12	1.98	0.46
2:FB:468:GLY:O	2:FB:482:SER:HA	2.16	0.46
2:FB:558:VAL:HA	2:FB:561:ILE:HG13	1.97	0.46
2:FB:642:LEU:HD22	2:FB:642:LEU:HA	1.76	0.46
2:FB:964:VAL:C	2:FB:966:SER:N	2.71	0.46
9:FI:8:ILE:H	9:FI:16:LEU:CD1	2.29	0.46
1:AA:1:MET:HE2	7:AG:110:ASP:HB3	1.97	0.45
1:AA:532:GLY:O	1:AA:580:HIS:N	2.25	0.45
1:AA:584:ARG:HD3	6:AF:116:ASP:HB2	1.98	0.45
1:AA:966:LEU:HD23	1:AA:969:PHE:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1168:ALA:O	1:AA:1171:GLN:N	2.49	0.45
1:AA:1325:LEU:HD13	1:AA:1325:LEU:HA	1.65	0.45
2:AB:169:ARG:HD3	2:AB:169:ARG:HA	1.80	0.45
2:AB:280:LEU:HD12	2:AB:371:PHE:HD1	1.82	0.45
2:AB:716:MET:O	2:AB:719:CYS:HB2	2.16	0.45
2:AB:942:GLY:C	2:AB:943:ILE:HD12	2.42	0.45
2:AB:1026:ILE:CD1	2:AB:1028:VAL:HG13	2.46	0.45
3:AC:245:ARG:HD2	3:AC:245:ARG:N	2.31	0.45
10:AJ:60:PHE:O	10:AJ:63:TYR:N	2.47	0.45
1:BA:1078:LYS:HA	1:BA:1078:LYS:HD2	1.69	0.45
1:BA:1251:ALA:O	1:BA:1253:THR:N	2.49	0.45
2:BB:14:ALA:HB2	2:BB:980:ASP:CG	2.41	0.45
2:BB:280:LEU:HD12	2:BB:371:PHE:HD1	1.81	0.45
2:BB:347:LEU:HA	2:BB:347:LEU:HD13	1.70	0.45
2:BB:840:LEU:HD12	2:BB:857:PRO:HB2	1.98	0.45
9:BI:57:PRO:HA	9:BI:61:ARG:HG2	1.97	0.45
12:BL:38:LEU:HD12	12:BL:49:LYS:HD3	1.98	0.45
13:BM:42:LYS:O	14:BN:29:PHE:HA	2.16	0.45
1:CA:211:THR:O	1:CA:212:VAL:C	2.59	0.45
1:CA:1640:ARG:O	1:CA:1644:GLY:N	2.40	0.45
1:CA:1659:LYS:HA	7:CG:104:LEU:HD23	1.98	0.45
2:CB:472:SER:OG	2:CB:473:GLN:N	2.47	0.45
2:CB:1060:VAL:HG22	2:CB:1061:LYS:N	2.31	0.45
8:CH:93:TYR:N	8:CH:93:TYR:CD1	2.84	0.45
11:CK:75:ALA:O	11:CK:79:VAL:HG23	2.16	0.45
14:CN:131:LEU:HG	14:CN:132:GLN:N	2.31	0.45
7:CO:279:VAL:HG23	7:DG:159:LYS:HZ3	1.81	0.45
7:CO:280:PHE:HD1	7:CO:280:PHE:HA	1.72	0.45
1:DA:457:LYS:O	1:DA:459:ALA:N	2.49	0.45
1:DA:1158:SER:HB3	1:DA:1159:ASP:H	1.56	0.45
1:DA:1175:MET:HB3	1:DA:1175:MET:HE2	1.60	0.45
1:DA:1240:LEU:HD23	1:DA:1541:ILE:HG23	1.98	0.45
3:DC:48:ASP:CG	3:DC:49:ALA:N	2.73	0.45
1:EA:483:VAL:CG2	2:EB:1042:ASP:HA	2.45	0.45
1:EA:602:GLY:O	1:EA:653:THR:HG22	2.16	0.45
1:EA:646:GLU:CD	2:EB:1086:PHE:HB2	2.41	0.45
1:EA:695:TYR:HE1	1:EA:820:TYR:HA	1.80	0.45
1:EA:1263:LEU:HG	1:EA:1267:ILE:HD11	1.99	0.45
1:EA:1450:ILE:HG22	1:EA:1457:ILE:HG21	1.98	0.45
2:EB:359:LEU:HD22	2:EB:361:HIS:CE1	2.51	0.45
3:EC:85:PHE:HA	3:EC:204:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EH:5:LEU:CD2	8:EH:135:LEU:HD23	2.43	0.45
11:EK:60:SER:HG	11:EK:104:ARG:HH21	1.59	0.45
1:FA:82:PRO:HG3	1:FA:393:SER:O	2.17	0.45
1:FA:123:ARG:HG3	1:FA:193:ILE:HD11	1.98	0.45
1:FA:460:LEU:O	1:FA:466:LEU:HB3	2.16	0.45
1:FA:552:GLU:O	1:FA:553:GLN:C	2.59	0.45
2:FB:264:TRP:NE1	2:FB:265:ARG:HG2	2.31	0.45
2:FB:379:ARG:CZ	2:FB:580:GLY:HA2	2.45	0.45
3:FC:188:ASP:O	3:FC:191:ILE:HG13	2.16	0.45
3:FC:235:ILE:H	3:FC:235:ILE:HG12	1.47	0.45
5:FE:112:TYR:CZ	5:FE:136:ASN:HB2	2.51	0.45
13:FM:85:LYS:C	13:FM:87:SER:H	2.22	0.45
1:AA:126:GLN:NE2	1:AA:340:HIS:O	2.47	0.45
1:AA:484:ILE:HG23	1:AA:631:ASP:O	2.15	0.45
1:AA:678:VAL:HG22	1:AA:781:LEU:O	2.17	0.45
1:AA:1028:GLU:CD	1:AA:1637:PRO:HB2	2.41	0.45
1:AA:1626:VAL:HG11	2:AB:1194:ILE:HD13	1.98	0.45
2:AB:45:HIS:H	2:AB:45:HIS:CD2	2.32	0.45
2:AB:211:ARG:NH2	2:AB:243:GLN:OE1	2.38	0.45
2:AB:257:GLN:HG3	2:AB:316:ARG:HH22	1.81	0.45
2:AB:359:LEU:HD23	2:AB:359:LEU:HA	1.61	0.45
2:AB:476:LEU:HA	2:AB:476:LEU:HD23	1.57	0.45
3:AC:64:ALA:O	3:AC:67:PHE:HB2	2.16	0.45
5:AE:153:HIS:N	5:AE:153:HIS:HD1	2.14	0.45
7:AG:125:TRP:CZ2	7:AG:127:PRO:HG3	2.50	0.45
14:AN:87:TYR:HB3	14:AN:139:VAL:CG1	2.43	0.45
1:BA:545:SER:C	1:BA:547:ILE:H	2.25	0.45
1:BA:727:THR:OG1	1:BA:728:GLY:N	2.49	0.45
1:BA:1291:VAL:HG12	1:BA:1292:ILE:H	1.82	0.45
2:BB:656:LEU:HG	2:BB:687:THR:O	2.15	0.45
2:BB:774:ALA:HA	2:BB:1028:VAL:CG1	2.47	0.45
2:BB:1047:ARG:NH1	2:BB:1050:GLY:H	2.13	0.45
7:BG:38:ILE:H	7:BG:38:ILE:HG13	1.27	0.45
7:BG:134:GLU:O	7:BG:149:ILE:HG23	2.16	0.45
7:BG:218:VAL:HA	7:BG:224:PRO:HA	1.98	0.45
1:CA:536:ILE:HG12	1:CA:577:VAL:HG22	1.97	0.45
1:CA:595:LEU:HD22	1:CA:595:LEU:HA	1.79	0.45
1:CA:1054:ALA:O	1:CA:1179:ILE:HG22	2.16	0.45
1:CA:1142:ASP:O	1:CA:1145:GLU:N	2.49	0.45
1:CA:1287:ALA:HA	1:CA:1478:ALA:CB	2.36	0.45
2:CB:38:LEU:H	2:CB:38:LEU:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:301:PHE:CD1	2:CB:302:LEU:HD23	2.50	0.45
2:CB:468:GLY:O	2:CB:482:SER:HA	2.16	0.45
2:CB:476:LEU:HD23	2:CB:476:LEU:HA	1.52	0.45
2:CB:571:ALA:HA	2:CB:572:PRO:HD3	1.74	0.45
2:CB:627:GLY:O	2:CB:641:TYR:N	2.49	0.45
2:CB:1178:ILE:HD12	2:CB:1182:LEU:HB3	1.98	0.45
3:CC:67:PHE:HE1	3:CC:318:VAL:HA	1.81	0.45
5:CE:143:ASN:O	5:CE:145:THR:N	2.50	0.45
7:CG:67:ASN:O	7:CG:70:VAL:HG23	2.16	0.45
11:CK:68:GLU:HG2	11:CK:72:LEU:HD23	1.98	0.45
11:CK:138:LYS:O	11:CK:142:MET:HB2	2.15	0.45
12:CL:61:THR:O	12:CL:63:ARG:N	2.49	0.45
1:DA:113:VAL:HG11	1:DA:181:LEU:HD23	1.98	0.45
1:DA:713:VAL:HG12	1:DA:714:THR:H	1.80	0.45
1:DA:1226:VAL:HG12	1:DA:1227:MET:HG2	1.98	0.45
2:DB:271:VAL:HB	2:DB:276:ILE:HD11	1.98	0.45
2:DB:290:ASP:O	2:DB:292:ILE:N	2.48	0.45
2:DB:600:GLN:OE1	14:DN:90:MET:HE1	2.15	0.45
3:DC:41:GLU:O	3:DC:57:ILE:HD12	2.15	0.45
3:DC:70:ILE:C	3:DC:72:ILE:H	2.23	0.45
7:DG:140:GLN:HB3	7:DG:217:TRP:HD1	1.80	0.45
14:DN:58:PHE:N	14:DN:58:PHE:CD1	2.84	0.45
1:EA:618:TYR:O	1:EA:620:ASN:N	2.50	0.45
1:EA:1105:ARG:HH22	1:EA:1138:GLU:CD	2.24	0.45
1:EA:1202:LEU:HD21	9:EI:101:LEU:CD2	2.46	0.45
1:EA:1220:PRO:O	1:EA:1223:ARG:HB2	2.16	0.45
2:EB:151:ASN:N	2:EB:151:ASN:OD1	2.48	0.45
2:EB:617:THR:HB	2:EB:620:LEU:HD23	1.98	0.45
2:EB:1050:GLY:O	7:EO:306:SER:OG	2.31	0.45
2:EB:1058:GLN:H	2:EB:1058:GLN:HG3	1.51	0.45
3:EC:303:GLU:O	3:EC:304:SER:HB2	2.16	0.45
6:EF:119:ARG:HA	6:EF:122:MET:HG3	1.98	0.45
13:EM:16:GLN:HE21	13:EM:18:GLN:H	1.63	0.45
1:FA:379:GLU:HA	7:FO:292:HIS:NE2	2.31	0.45
1:FA:505:LEU:O	1:FA:581:ILE:HG22	2.17	0.45
1:FA:790:LYS:C	1:FA:792:GLY:H	2.24	0.45
1:FA:964:LYS:HE2	1:FA:964:LYS:HB3	1.63	0.45
1:FA:1584:LEU:O	1:FA:1585:ILE:C	2.59	0.45
1:FA:1637:PRO:CB	1:FA:1647:ASN:HD21	2.28	0.45
2:FB:161:LEU:HD11	2:FB:409:TYR:CE2	2.50	0.45
2:FB:326:VAL:O	2:FB:330:LEU:HG	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:523:GLU:H	2:FB:523:GLU:HG2	1.39	0.45
5:FE:64:PRO:HB3	5:FE:68:SER:HB2	1.97	0.45
6:FF:69:LEU:O	6:FF:72:LYS:HB2	2.17	0.45
8:FH:93:TYR:N	8:FH:93:TYR:CD1	2.84	0.45
1:AA:843:ARG:NE	1:AA:945:CYS:O	2.44	0.45
5:AE:159:ASP:O	5:AE:163:GLU:HG2	2.16	0.45
9:AI:13:CYS:HB3	9:AI:33:CYS:HB3	1.97	0.45
9:AI:33:CYS:HB2	13:AM:60:LEU:HD22	1.97	0.45
9:AI:99:LEU:HB2	9:AI:111:PHE:CZ	2.48	0.45
13:AM:33:PRO:HG2	13:AM:57:ASN:ND2	2.31	0.45
1:BA:530:TRP:CZ2	1:BA:582:LYS:HA	2.49	0.45
1:BA:650:LEU:CD2	6:BF:87:LYS:HD3	2.46	0.45
1:BA:1092:GLU:O	1:BA:1095:LEU:N	2.46	0.45
2:BB:201:LYS:NZ	2:BB:466:SER:HA	2.31	0.45
3:BC:59:ILE:HG12	3:BC:60:ASP:N	2.31	0.45
3:BC:253:PRO:C	3:BC:255:VAL:H	2.25	0.45
7:BG:18:LYS:O	7:BG:20:HIS:N	2.50	0.45
8:BH:46:LEU:HD23	8:BH:46:LEU:HA	1.78	0.45
9:BI:88:GLN:NE2	9:BI:117:CYS:SG	2.89	0.45
7:BO:265:SER:N	7:BO:268:GLU:OE2	2.49	0.45
1:CA:472:MET:HE1	1:CA:1638:SER:OG	2.15	0.45
1:CA:993:GLN:CD	2:CB:676:VAL:HG21	2.42	0.45
1:CA:1220:PRO:O	1:CA:1223:ARG:HB2	2.16	0.45
1:CA:1270:VAL:HB	9:CI:51:THR:HG21	1.99	0.45
2:CB:501:ARG:HG3	2:CB:699:ILE:CD1	2.46	0.45
2:CB:539:CYS:C	2:CB:541:LEU:H	2.25	0.45
2:CB:755:ASN:C	2:CB:757:TYR:N	2.74	0.45
2:CB:913:ILE:HD13	2:CB:930:LYS:HG3	1.97	0.45
2:CB:960:ILE:H	2:CB:960:ILE:HG12	1.37	0.45
2:CB:970:LYS:HG2	2:CB:1000:LEU:HD21	1.98	0.45
3:CC:209:ILE:HG12	3:CC:210:LEU:O	2.16	0.45
3:CC:248:GLN:HG3	3:CC:256:ILE:O	2.16	0.45
13:CM:38:PHE:O	14:CN:118:SER:HA	2.17	0.45
7:CO:280:PHE:C	7:CO:284:VAL:HG23	2.41	0.45
1:DA:1245:ASP:OD2	1:DA:1245:ASP:N	2.47	0.45
1:DA:1272:VAL:HG23	9:DI:49:THR:O	2.15	0.45
1:DA:1342:PRO:HD3	2:DB:257:GLN:OE1	2.16	0.45
1:DA:1348:VAL:HG11	2:DB:225:ARG:NH2	2.31	0.45
1:DA:1493:CYS:C	1:DA:1495:LYS:H	2.23	0.45
2:DB:362:LEU:HB2	2:DB:370:LYS:HE2	1.98	0.45
2:DB:376:PHE:C	2:DB:376:PHE:CD2	2.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:964:VAL:O	2:DB:966:SER:N	2.48	0.45
2:DB:1117:VAL:HG21	2:DB:1162:GLY:N	2.31	0.45
5:DE:15:ALA:HA	5:DE:140:LEU:O	2.17	0.45
5:DE:43:LYS:O	5:DE:47:CYS:HB2	2.17	0.45
8:DH:40:LEU:HD12	8:DH:41:ASP:N	2.30	0.45
1:EA:657:TYR:O	1:EA:665:PRO:HA	2.17	0.45
1:EA:865:ASP:CG	1:EA:866:LYS:N	2.75	0.45
1:EA:952:LEU:HD11	2:EB:519:LYS:HD2	1.97	0.45
1:EA:975:ASP:CG	1:EA:976:ALA:N	2.75	0.45
2:EB:417:ILE:O	2:EB:420:TYR:HB3	2.17	0.45
2:EB:1046:VAL:HG22	2:EB:1047:ARG:N	2.31	0.45
3:EC:218:LYS:NZ	12:EL:69:ALA:HB3	2.31	0.45
3:EC:253:PRO:C	3:EC:255:VAL:H	2.23	0.45
4:ED:25:THR:OG1	7:EG:42:PRO:HB2	2.16	0.45
5:EE:157:SER:OG	5:EE:160:GLU:HG3	2.16	0.45
8:EH:87:ARG:HE	8:EH:87:ARG:HB2	1.58	0.45
13:EM:10:ILE:HD12	14:EN:70:LEU:O	2.16	0.45
13:EM:36:THR:HG23	13:EM:57:ASN:ND2	2.32	0.45
1:FA:1229:ALA:CB	1:FA:1597:ALA:HB2	2.46	0.45
1:FA:1256:LYS:HD3	1:FA:1305:GLU:O	2.16	0.45
1:FA:1549:VAL:HG11	1:FA:1561:THR:OG1	2.16	0.45
2:FB:1082:HIS:HB2	2:FB:1084:THR:HG23	1.98	0.45
1:AA:457:LYS:C	1:AA:459:ALA:H	2.23	0.45
1:AA:952:LEU:CD1	2:AB:519:LYS:HD2	2.47	0.45
2:AB:260:PHE:HD1	2:AB:260:PHE:C	2.24	0.45
2:AB:675:ALA:HB2	2:AB:686:HIS:CG	2.52	0.45
5:AE:143:ASN:O	5:AE:145:THR:N	2.50	0.45
6:AF:97:ARG:HG3	6:AF:101:ILE:CD1	2.46	0.45
12:AL:33:GLU:HG3	12:AL:53:HIS:ND1	2.32	0.45
13:AM:9:GLU:HG2	14:AN:70:LEU:O	2.16	0.45
1:BA:835:LEU:HD22	1:BA:915:GLY:O	2.16	0.45
1:BA:934:LYS:HB3	2:BB:955:PRO:HG2	1.97	0.45
1:BA:1060:GLU:O	1:BA:1061:SER:C	2.59	0.45
1:BA:1217:LEU:HD11	1:BA:1572:ARG:NE	2.32	0.45
1:BA:1294:MET:N	1:BA:1294:MET:SD	2.89	0.45
1:BA:1621:PHE:O	1:BA:1624:LYS:HB2	2.16	0.45
2:BB:359:LEU:HD23	2:BB:359:LEU:HA	1.62	0.45
2:BB:374:LEU:O	2:BB:378:ILE:HG12	2.17	0.45
2:BB:800:TYR:C	2:BB:800:TYR:CD2	2.95	0.45
2:BB:852:VAL:HG22	2:BB:856:ASP:HB3	1.99	0.45
3:BC:54:PHE:CZ	3:BC:300:PHE:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:230:LEU:HD12	3:BC:231:PRO:HD2	1.99	0.45
1:CA:1229:ALA:CB	1:CA:1597:ALA:HB2	2.47	0.45
1:CA:1546:VAL:HG21	1:CA:1595:TYR:CE2	2.52	0.45
2:CB:296:ASP:C	2:CB:298:LYS:H	2.25	0.45
2:CB:389:CYS:HB2	2:CB:635:GLY:O	2.16	0.45
2:CB:505:ARG:HG3	2:CB:541:LEU:HD23	1.98	0.45
2:CB:532:HIS:CG	2:CB:700:LEU:HD22	2.50	0.45
2:CB:741:LEU:HD23	2:CB:741:LEU:HA	1.79	0.45
2:CB:804:TYR:HE1	2:CB:883:GLU:OE2	1.99	0.45
2:CB:1006:ASN:HB3	2:CB:1010:ASN:O	2.16	0.45
3:CC:209:ILE:HG12	3:CC:210:LEU:N	2.31	0.45
1:DA:597:LYS:HB2	2:DB:1082:HIS:NE2	2.30	0.45
1:DA:611:GLU:CD	1:DA:615:ARG:HD2	2.42	0.45
1:DA:668:GLY:HA3	1:DA:787:GLY:C	2.41	0.45
1:DA:709:ARG:C	1:DA:711:LYS:H	2.19	0.45
1:DA:1440:ASN:C	1:DA:1442:VAL:H	2.24	0.45
1:DA:1621:PHE:O	1:DA:1624:LYS:HB2	2.16	0.45
2:DB:1141:LEU:CD1	7:DG:17:ILE:HG21	2.47	0.45
3:DC:285:PHE:C	3:DC:287:ASP:H	2.24	0.45
5:DE:22:MET:HA	5:DE:187:TYR:CZ	2.51	0.45
7:DG:58:LEU:HD23	7:DG:58:LEU:HA	1.64	0.45
1:EA:782:ASP:O	1:EA:785:GLN:N	2.33	0.45
1:EA:1175:MET:O	1:EA:1178:LEU:HG	2.17	0.45
1:EA:1195:GLU:O	1:EA:1198:THR:OG1	2.29	0.45
1:EA:1485:MET:O	1:EA:1489:VAL:HG23	2.15	0.45
2:EB:551:ILE:CD1	2:EB:649:MET:HA	2.47	0.45
2:EB:658:LEU:HB3	2:EB:659:ASP:H	1.50	0.45
2:EB:692:THR:HB	2:EB:693:PRO:HD2	1.98	0.45
2:EB:693:PRO:C	2:EB:695:ASN:H	2.25	0.45
3:EC:328:LEU:HD11	11:EK:65:ILE:HD11	1.97	0.45
5:EE:20:LYS:NZ	5:EE:37:LEU:HD22	2.30	0.45
6:EF:120:ILE:O	6:EF:123:LYS:N	2.50	0.45
6:EF:147:SER:HB3	6:EF:150:GLU:HG2	1.98	0.45
1:FA:247:GLY:O	1:FA:442:LYS:HG2	2.17	0.45
1:FA:727:THR:OG1	1:FA:729:LYS:N	2.45	0.45
1:FA:1026:GLN:HA	1:FA:1611:MET:CE	2.46	0.45
1:FA:1039:ARG:HB3	1:FA:1044:THR:O	2.16	0.45
1:FA:1237:GLN:HB2	1:FA:1544:ASN:HB2	1.98	0.45
1:FA:1493:CYS:C	1:FA:1495:LYS:H	2.24	0.45
2:FB:323:ARG:O	2:FB:327:LEU:HG	2.16	0.45
2:FB:349:VAL:O	2:FB:353:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:1038:HIS:HE1	2:FB:1042:ASP:OD2	2.00	0.45
4:FD:14:THR:OG1	4:FD:16:LEU:HB2	2.16	0.45
4:FD:22:ILE:H	7:FG:76:LYS:NZ	2.14	0.45
7:FG:49:LEU:HG	7:FG:50:ALA:O	2.16	0.45
9:FI:72:LYS:HB2	9:FI:73:LYS:HE3	1.99	0.45
13:FM:36:THR:HG23	13:FM:57:ASN:ND2	2.31	0.45
1:AA:668:GLY:HA3	1:AA:787:GLY:C	2.41	0.45
1:AA:854:GLY:O	1:AA:974:THR:HB	2.17	0.45
1:AA:1006:LEU:HD22	9:AI:103:SER:HA	1.97	0.45
1:AA:1247:SER:OG	1:AA:1248:ASP:N	2.49	0.45
2:AB:304:ASP:O	2:AB:308:LEU:HG	2.16	0.45
2:AB:383:SER:HB2	2:AB:388:GLU:HB2	1.98	0.45
2:AB:811:LEU:HD13	2:AB:823:GLN:NE2	2.29	0.45
2:AB:1056:THR:HB	2:AB:1058:GLN:HG3	1.98	0.45
2:AB:1198:TYR:CD2	2:AB:1198:TYR:N	2.82	0.45
3:AC:216:HIS:ND1	3:AC:218:LYS:HB3	2.32	0.45
1:BA:1260:LYS:HA	1:BA:1499:ARG:O	2.17	0.45
2:BB:462:GLN:O	2:BB:466:SER:N	2.48	0.45
2:BB:1017:ALA:O	3:BC:65:ASN:ND2	2.50	0.45
3:BC:70:ILE:C	3:BC:72:ILE:H	2.24	0.45
6:BF:98:ALA:HB2	6:BF:118:LEU:HD13	1.99	0.45
14:BN:82:ILE:HB	14:BN:87:TYR:CE1	2.51	0.45
1:CA:118:TYR:CD2	1:CA:223:PHE:HD1	2.35	0.45
1:CA:253:GLU:O	1:CA:312:SER:HA	2.17	0.45
1:CA:456:VAL:O	1:CA:459:ALA:HB3	2.17	0.45
1:CA:893:ASP:OD2	1:CA:956:ARG:HB2	2.17	0.45
1:CA:960:MET:HE1	1:CA:967:PRO:HD3	1.98	0.45
1:CA:1516:LYS:O	1:CA:1518:VAL:HB	2.17	0.45
1:CA:1555:VAL:CG1	5:CE:178:ILE:HD13	2.47	0.45
2:CB:412:ILE:O	2:CB:416:LYS:HG2	2.16	0.45
2:CB:463:TYR:HE1	2:CB:467:THR:HG21	1.80	0.45
2:CB:655:TYR:HD1	2:CB:688:HIS:HE2	1.65	0.45
2:CB:714:ARG:HD3	2:CB:714:ARG:HA	1.77	0.45
2:CB:843:ASP:HB2	2:CB:845:LEU:HD21	1.98	0.45
2:CB:898:LEU:HA	2:CB:898:LEU:HD13	1.68	0.45
2:CB:1116:SER:OG	2:CB:1159:TRP:HB2	2.16	0.45
5:CE:112:TYR:CE1	5:CE:136:ASN:HB2	2.52	0.45
14:CN:90:MET:HB2	14:CN:92:ASP:OD1	2.16	0.45
1:DA:892:LEU:O	1:DA:896:THR:OG1	2.35	0.45
1:DA:1039:ARG:NH2	5:DE:168:TYR:O	2.49	0.45
2:DB:151:ASN:OD1	2:DB:151:ASN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:262:PHE:O	2:DB:268:GLU:HG2	2.16	0.45
2:DB:301:PHE:CD1	2:DB:302:LEU:HD23	2.51	0.45
2:DB:626:ILE:N	2:DB:668:GLU:OE2	2.49	0.45
5:DE:64:PRO:HB3	5:DE:68:SER:HB2	1.97	0.45
1:EA:646:GLU:C	1:EA:648:LEU:H	2.24	0.45
1:EA:719:ILE:O	1:EA:724:PRO:HA	2.17	0.45
1:EA:1117:SER:O	1:EA:1117:SER:OG	2.29	0.45
1:EA:1175:MET:HE2	1:EA:1175:MET:HB3	1.64	0.45
1:EA:1229:ALA:CB	1:EA:1597:ALA:HB2	2.46	0.45
2:EB:72:VAL:HG11	2:EB:94:LYS:HE3	1.98	0.45
2:EB:277:LEU:HG	2:EB:374:LEU:HD21	1.99	0.45
2:EB:559:SER:C	2:EB:561:ILE:H	2.24	0.45
2:EB:1026:ILE:HD11	2:EB:1028:VAL:CG1	2.46	0.45
3:EC:228:ARG:HD3	14:EN:173:THR:CG2	2.47	0.45
11:EK:76:LEU:O	11:EK:80:ILE:HG13	2.16	0.45
1:FA:572:THR:HA	7:FG:52:MET:SD	2.57	0.45
1:FA:1006:LEU:O	1:FA:1010:ALA:HB3	2.17	0.45
1:FA:1098:SER:OG	1:FA:1141:GLN:NE2	2.49	0.45
1:FA:1272:VAL:HG12	1:FA:1273:THR:N	2.32	0.45
1:FA:1580:ARG:CZ	5:FE:204:THR:HG23	2.46	0.45
2:FB:1053:ASN:HD22	2:FB:1054:SER:H	1.63	0.45
2:FB:1117:VAL:HB	2:FB:1160:GLU:O	2.16	0.45
3:FC:70:ILE:C	3:FC:72:ILE:N	2.75	0.45
11:FK:120:GLY:O	11:FK:121:LEU:C	2.59	0.45
13:FM:59:ARG:HD2	13:FM:60:LEU:HD21	1.97	0.45
14:FN:55:LEU:O	14:FN:136:VAL:HA	2.17	0.45
1:AA:82:PRO:HG3	1:AA:393:SER:O	2.16	0.45
1:AA:505:LEU:HD13	1:AA:637:PHE:HB2	1.99	0.45
1:AA:696:ILE:O	1:AA:700:ILE:HG13	2.17	0.45
1:AA:729:LYS:HE3	1:AA:779:GLY:O	2.17	0.45
1:AA:1344:ILE:H	1:AA:1344:ILE:CD1	2.25	0.45
1:AA:1463:ASP:HB2	1:AA:1469:TRP:CD1	2.51	0.45
13:AM:43:LYS:HE3	14:AN:27:ASP:O	2.15	0.45
14:AN:90:MET:O	14:AN:137:PHE:HB3	2.16	0.45
1:BA:672:ASP:HB2	2:BB:783:MET:HE3	1.98	0.45
1:BA:862:THR:HA	9:BI:67:VAL:HG12	1.98	0.45
1:BA:1241:PRO:HG3	1:BA:1540:GLY:C	2.41	0.45
1:BA:1322:ILE:CG2	1:BA:1457:ILE:HD11	2.45	0.45
1:BA:1485:MET:O	1:BA:1489:VAL:HG23	2.17	0.45
1:BA:1555:VAL:HG13	1:BA:1556:GLU:N	2.30	0.45
2:BB:260:PHE:HD1	2:BB:261:ARG:N	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:463:TYR:CD1	2:BB:463:TYR:C	2.93	0.45
2:BB:474:SER:C	2:BB:476:LEU:N	2.73	0.45
2:BB:732:ALA:O	2:BB:736:ARG:HG3	2.16	0.45
6:BF:119:ARG:HA	6:BF:122:MET:HG3	1.99	0.45
14:BN:75:GLU:H	14:BN:91:ASP:CG	2.24	0.45
1:CA:89:LEU:HD22	1:CA:89:LEU:HA	1.76	0.45
1:CA:223:PHE:CE2	1:CA:227:LEU:HD11	2.52	0.45
1:CA:507:TYR:HB2	1:CA:637:PHE:CZ	2.52	0.45
1:CA:522:ALA:O	1:CA:525:ASN:N	2.49	0.45
1:CA:631:ASP:OD1	1:CA:631:ASP:N	2.45	0.45
1:CA:1095:LEU:CD2	1:CA:1134:GLY:HA3	2.47	0.45
1:CA:1457:ILE:HA	1:CA:1474:LEU:HD22	1.97	0.45
2:CB:73:ILE:HG23	2:CB:74:PHE:N	2.30	0.45
2:CB:838:GLU:C	2:CB:840:LEU:H	2.25	0.45
2:CB:848:ILE:HD12	2:CB:885:VAL:CG2	2.46	0.45
5:CE:175:LEU:HD22	5:CE:175:LEU:HA	1.63	0.45
7:CG:99:ASP:O	7:CG:100:THR:C	2.59	0.45
1:DA:869:PRO:HG2	1:DA:872:ASP:HB2	1.99	0.45
1:DA:1067:GLU:C	1:DA:1069:CYS:H	2.25	0.45
1:DA:1543:SER:OG	1:DA:1544:ASN:N	2.48	0.45
2:DB:526:GLY:CA	2:DB:696:ILE:HG22	2.46	0.45
2:DB:565:LEU:HD23	2:DB:565:LEU:HA	1.65	0.45
2:DB:676:VAL:HG12	2:DB:677:THR:N	2.31	0.45
2:DB:687:THR:OG1	2:DB:688:HIS:ND1	2.49	0.45
2:DB:800:TYR:CD1	2:DB:910:THR:HG23	2.52	0.45
2:DB:847:TYR:O	2:DB:882:ILE:HD12	2.16	0.45
2:DB:1048:SER:OG	2:DB:1049:THR:N	2.47	0.45
5:DE:198:ILE:O	5:DE:199:ILE:HD13	2.17	0.45
12:DL:63:ARG:HH11	12:DL:63:ARG:HG3	1.81	0.45
1:EA:20:THR:HG23	1:EA:23:GLU:HG3	1.98	0.45
1:EA:214:ASP:OD2	5:EE:177:ARG:NH2	2.50	0.45
1:EA:534:THR:OG1	1:EA:535:GLN:HG2	2.17	0.45
1:EA:554:ARG:O	1:EA:555:LYS:C	2.59	0.45
1:EA:731:ILE:O	1:EA:735:VAL:HG23	2.17	0.45
1:EA:806:ALA:O	1:EA:807:ALA:C	2.60	0.45
1:EA:816:LEU:HG	1:EA:817:PHE:N	2.30	0.45
1:EA:1251:ALA:O	1:EA:1253:THR:N	2.49	0.45
1:EA:1659:LYS:HA	7:EG:104:LEU:HD23	1.97	0.45
2:EB:460:LYS:O	2:EB:463:TYR:HB3	2.16	0.45
2:EB:568:LEU:C	14:EN:140:SER:HB2	2.41	0.45
2:EB:751:ILE:HG23	2:EB:752:VAL:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:1178:ILE:O	2:EB:1178:ILE:HG13	2.12	0.45
3:EC:70:ILE:C	3:EC:72:ILE:N	2.74	0.45
3:EC:310:PRO:O	3:EC:313:ILE:N	2.49	0.45
3:EC:329:LYS:CE	11:EK:122:LYS:HE2	2.47	0.45
1:FA:654:ASP:C	1:FA:656:GLN:N	2.74	0.45
2:FB:66:LYS:C	2:FB:68:ILE:N	2.74	0.45
2:FB:158:CYS:O	2:FB:457:ILE:N	2.49	0.45
2:FB:1093:LEU:HD12	2:FB:1093:LEU:HA	1.58	0.45
4:FD:36:VAL:CG2	7:FG:38:ILE:HD13	2.46	0.45
5:FE:177:ARG:CZ	5:FE:179:GLN:HE22	2.29	0.45
9:FI:23:VAL:HB	9:FI:39:LYS:HE3	1.98	0.45
9:FI:111:PHE:HA	9:FI:121:PHE:O	2.16	0.45
11:FK:60:SER:HG	11:FK:104:ARG:HH21	1.61	0.45
12:FL:63:ARG:HG3	12:FL:63:ARG:NH1	2.32	0.45
2:AB:301:PHE:CD1	2:AB:302:LEU:HD23	2.51	0.45
2:AB:625:GLU:O	2:AB:642:LEU:HD13	2.17	0.45
2:AB:663:ILE:HD12	2:AB:663:ILE:HA	1.61	0.45
2:AB:744:LEU:HD11	2:AB:799:GLY:HA2	1.98	0.45
2:AB:1007:TYR:C	2:AB:1009:GLY:H	2.24	0.45
3:AC:203:SER:O	3:AC:204:LEU:HB3	2.16	0.45
8:AH:93:TYR:N	8:AH:93:TYR:CD1	2.85	0.45
14:AN:58:PHE:N	14:AN:58:PHE:CD1	2.84	0.45
1:BA:61:LEU:HG	1:BA:67:LEU:O	2.17	0.45
1:BA:81:LEU:C	1:BA:83:VAL:H	2.25	0.45
1:BA:713:VAL:HG23	1:BA:738:ASN:OD1	2.17	0.45
1:BA:773:ASP:OD2	1:BA:773:ASP:N	2.49	0.45
1:BA:1101:THR:O	1:BA:1105:ARG:HB2	2.15	0.45
3:BC:75:VAL:HG12	3:BC:308:MET:HE1	1.97	0.45
3:BC:85:PHE:HA	3:BC:204:LEU:HD13	1.99	0.45
5:BE:139:ALA:C	5:BE:141:VAL:N	2.75	0.45
8:BH:12:VAL:HB	8:BH:53:ASP:H	1.82	0.45
14:BN:26:PRO:HB2	14:BN:29:PHE:CE1	2.51	0.45
1:CA:681:THR:O	1:CA:729:LYS:NZ	2.33	0.45
1:CA:1072:ASN:O	1:CA:1075:ALA:N	2.50	0.45
1:CA:1162:ASN:H	1:CA:1165:LYS:HD2	1.81	0.45
2:CB:203:ILE:CD1	2:CB:203:ILE:H	2.24	0.45
8:CH:80:ARG:HB2	11:CK:108:TYR:HE1	1.82	0.45
1:DA:585:ASP:OD1	1:DA:644:ARG:NH1	2.49	0.45
1:DA:1189:ALA:O	1:DA:1193:VAL:HG23	2.16	0.45
1:DA:1202:LEU:HD11	9:DI:101:LEU:CD1	2.44	0.45
1:DA:1224:GLU:HB3	1:DA:1233:ILE:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1484:LEU:CD2	2:DB:304:ASP:HB3	2.47	0.45
2:DB:526:GLY:N	2:DB:696:ILE:HG22	2.32	0.45
2:DB:1093:LEU:HD11	2:DB:1179:PRO:HB3	1.99	0.45
2:DB:1189:LEU:HA	2:DB:1189:LEU:HD22	1.61	0.45
3:DC:71:MET:HE3	3:DC:71:MET:HB3	1.78	0.45
3:DC:81:GLU:HA	3:DC:81:GLU:OE1	2.17	0.45
3:DC:172:GLN:H	3:DC:175:GLN:HB2	1.81	0.45
7:DG:100:THR:C	7:DG:102:GLU:N	2.72	0.45
8:DH:30:SER:OG	8:DH:33:GLN:N	2.38	0.45
9:DI:11:LEU:H	9:DI:11:LEU:HD12	1.82	0.45
10:DJ:60:PHE:O	10:DJ:63:TYR:N	2.46	0.45
13:DM:10:ILE:HD13	14:DN:70:LEU:HG	1.99	0.45
1:EA:32:ILE:HG21	1:EA:49:LEU:HD23	1.98	0.45
1:EA:253:GLU:O	1:EA:312:SER:HA	2.17	0.45
1:EA:484:ILE:HG23	1:EA:631:ASP:O	2.16	0.45
1:EA:621:THR:HG23	1:EA:626:ALA:HB3	1.99	0.45
1:EA:935:GLY:N	9:EI:125:ASN:O	2.50	0.45
1:EA:1047:GLN:CD	1:EA:1584:LEU:HD13	2.42	0.45
2:EB:107:PRO:HG2	2:EB:133:TYR:CZ	2.51	0.45
2:EB:161:LEU:HD11	2:EB:409:TYR:CE2	2.51	0.45
2:EB:425:ILE:HG22	2:EB:426:ALA:N	2.32	0.45
2:EB:547:HIS:NE2	2:EB:694:THR:O	2.50	0.45
2:EB:548:LYS:HG2	2:EB:550:ARG:NH2	2.31	0.45
2:EB:627:GLY:H	2:EB:642:LEU:HD22	1.82	0.45
3:EC:42:VAL:HG22	3:EC:56:LEU:HD22	1.99	0.45
9:EI:8:ILE:H	9:EI:16:LEU:CD1	2.29	0.45
14:EN:110:LEU:HB3	14:EN:119:LEU:HB3	1.98	0.45
7:EO:272:ILE:HG12	7:EO:273:VAL:N	2.31	0.45
1:FA:1342:PRO:HG3	2:FB:259:THR:HG22	1.98	0.45
3:FC:59:ILE:HG12	3:FC:60:ASP:N	2.31	0.45
3:FC:136:LEU:HD13	3:FC:166:ASP:O	2.17	0.45
6:FF:97:ARG:HG2	6:FF:130:ILE:HD13	1.98	0.45
6:FF:102:SER:HB3	6:FF:117:PRO:HB3	1.99	0.45
9:FI:20:PRO:O	9:FI:22:ALA:N	2.49	0.45
9:FI:57:PRO:HA	9:FI:61:ARG:HG2	1.98	0.45
1:AA:674:ILE:HG12	1:AA:783:LYS:HB2	1.98	0.45
2:AB:54:GLU:HB3	2:AB:55:GLY:H	1.58	0.45
2:AB:376:PHE:HB2	2:AB:592:ILE:HD11	1.99	0.45
2:AB:434:ARG:HD3	7:BG:226:ASP:O	2.17	0.45
2:AB:617:THR:HG1	2:AB:620:LEU:HD23	1.82	0.45
2:AB:717:TYR:HB2	9:AI:104:ALA:HB1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:748:GLN:HA	10:AJ:54:VAL:HG23	1.99	0.45
3:AC:142:ARG:O	3:AC:144:PRO:HD3	2.17	0.45
3:AC:228:ARG:HH12	14:AN:172:ALA:HB1	1.82	0.45
4:AD:82:LEU:HD22	7:AG:67:ASN:ND2	2.30	0.45
4:AD:90:LYS:HA	4:AD:93:GLN:HG2	1.99	0.45
11:AK:117:LEU:O	11:AK:121:LEU:HB2	2.17	0.45
11:AK:128:CYS:O	11:AK:131:VAL:HB	2.17	0.45
1:BA:50:TYR:OH	1:BA:370:PRO:HG3	2.16	0.45
1:BA:754:LYS:HB2	1:BA:782:ASP:OD2	2.17	0.45
2:BB:1201:GLU:HG3	2:BB:1203:LYS:H	1.81	0.45
7:BG:46:TYR:CD1	7:BG:117:TRP:CD1	3.04	0.45
13:BM:65:TYR:O	13:BM:97:VAL:N	2.45	0.45
1:CA:191:MET:SD	1:CA:191:MET:C	3.00	0.45
1:CA:369:LEU:HA	1:CA:370:PRO:HD3	1.86	0.45
1:CA:478:TYR:O	2:CB:1091:ARG:NH2	2.50	0.45
1:CA:780:ILE:C	1:CA:781:LEU:HD23	2.42	0.45
1:CA:1039:ARG:NH2	5:CE:168:TYR:O	2.49	0.45
1:CA:1239:THR:HG23	1:CA:1520:VAL:HG13	1.98	0.45
1:CA:1322:ILE:CG2	1:CA:1457:ILE:HD11	2.46	0.45
1:CA:1501:ILE:O	1:CA:1504:ILE:N	2.49	0.45
1:CA:1582:LEU:O	1:CA:1583:ASP:C	2.60	0.45
1:CA:1637:PRO:HG3	1:CA:1647:ASN:HD21	1.82	0.45
2:CB:71:LYS:HB3	2:CB:425:ILE:CD1	2.47	0.45
2:CB:350:GLY:O	2:CB:353:VAL:HB	2.17	0.45
2:CB:376:PHE:HB2	2:CB:592:ILE:HD11	1.98	0.45
2:CB:772:VAL:O	2:CB:946:ASP:HB2	2.17	0.45
3:CC:59:ILE:HD11	3:CC:63:ILE:HB	1.98	0.45
3:CC:100:ARG:HH12	3:CC:193:LEU:CA	2.30	0.45
5:CE:32:GLN:O	5:CE:35:VAL:HB	2.15	0.45
5:CE:75:MET:HE1	5:CE:155:ARG:NH2	2.32	0.45
5:CE:182:ASP:OD2	5:CE:184:VAL:HG23	2.16	0.45
8:CH:33:GLN:HB2	8:CH:36:CYS:CB	2.46	0.45
8:CH:105:GLU:OE2	8:CH:115:TYR:OH	2.25	0.45
14:CN:72:VAL:HG22	14:CN:137:PHE:HE1	1.82	0.45
1:DA:495:ILE:HB	1:DA:603:HIS:ND1	2.31	0.45
1:DA:855:ARG:NH1	1:DA:868:THR:O	2.46	0.45
1:DA:975:ASP:CG	1:DA:976:ALA:N	2.74	0.45
1:DA:1122:PRO:HG3	5:DE:207:ARG:HB3	1.98	0.45
1:DA:1637:PRO:CB	1:DA:1647:ASN:HD21	2.30	0.45
2:DB:164:MET:HE3	2:DB:164:MET:HB2	1.79	0.45
2:DB:417:ILE:O	2:DB:420:TYR:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:792:SER:HB2	2:DB:933:THR:HB	1.97	0.45
2:DB:858:ILE:HD11	2:DB:872:LYS:HB3	1.98	0.45
7:DG:134:GLU:O	7:DG:149:ILE:HG23	2.16	0.45
14:DN:155:VAL:HG13	14:DN:156:PRO:HD2	1.98	0.45
1:EA:597:LYS:HB2	2:EB:1082:HIS:CE1	2.51	0.45
1:EA:1446:ARG:HG2	1:EA:1450:ILE:HD13	1.99	0.45
1:EA:1612:LYS:HD3	1:EA:1621:PHE:CD1	2.52	0.45
2:EB:570:VAL:HG13	2:EB:596:VAL:HG13	1.98	0.45
2:EB:622:ILE:H	2:EB:622:ILE:HD12	1.81	0.45
4:ED:40:LEU:HD22	4:ED:93:GLN:HB3	1.99	0.45
7:EG:95:LEU:HD23	7:EG:95:LEU:HA	1.73	0.45
9:EI:2:SER:O	9:EI:9:PHE:N	2.41	0.45
9:EI:94:MET:HE1	9:EI:121:PHE:CE1	2.52	0.45
1:FA:70:LYS:C	1:FA:71:PHE:CD1	2.94	0.45
1:FA:505:LEU:HD13	1:FA:637:PHE:HB2	1.99	0.45
1:FA:654:ASP:C	1:FA:656:GLN:H	2.25	0.45
1:FA:826:PHE:H	2:FB:776:ILE:HD11	1.82	0.45
1:FA:1217:LEU:HD11	1:FA:1572:ARG:CD	2.46	0.45
2:FB:201:LYS:NZ	2:FB:466:SER:HA	2.32	0.45
2:FB:203:ILE:CD1	2:FB:203:ILE:H	2.26	0.45
2:FB:733:LEU:HD22	10:FJ:60:PHE:HE2	1.82	0.45
2:FB:892:SER:OG	2:FB:893:ASN:N	2.50	0.45
2:FB:949:ILE:HG13	2:FB:950:ASN:N	2.31	0.45
2:FB:1150:LYS:N	2:FB:1150:LYS:HD3	2.32	0.45
2:FB:1195:ARG:NH2	2:FB:1197:ARG:HD2	2.31	0.45
3:FC:97:LEU:HD23	3:FC:97:LEU:HA	1.57	0.45
8:FH:108:SER:O	8:FH:110:ASP:N	2.49	0.45
14:FN:38:PHE:HA	14:FN:39:PRO:HD2	1.50	0.45
1:AA:124:LEU:HD12	1:AA:133:SER:HA	1.98	0.45
1:AA:697:TYR:CE1	1:AA:702:PRO:HD3	2.52	0.45
1:AA:753:ASN:CG	1:AA:780:ILE:HD11	2.42	0.45
1:AA:864:LEU:HD11	1:AA:875:LEU:HA	1.99	0.45
1:AA:957:VAL:HG13	1:AA:958:PRO:HD2	1.99	0.45
1:AA:1239:THR:HG23	1:AA:1520:VAL:HG13	1.98	0.45
2:AB:47:GLY:HA2	2:AB:50:ASN:HD22	1.82	0.45
2:AB:168:ASN:OD1	2:AB:169:ARG:HG2	2.17	0.45
2:AB:617:THR:HB	2:AB:620:LEU:HD23	1.98	0.45
2:AB:874:TYR:CZ	2:AB:876:SER:HB2	2.52	0.45
3:AC:172:GLN:HB2	3:AC:175:GLN:NE2	2.32	0.45
5:AE:144:ILE:HD13	5:AE:144:ILE:N	2.32	0.45
6:AF:97:ARG:HA	6:AF:100:GLN:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:46:TYR:CD1	7:AG:117:TRP:CD1	3.04	0.45
13:AM:70:SER:O	13:AM:74:ASN:HB2	2.17	0.45
1:BA:536:ILE:HG12	1:BA:577:VAL:HG22	1.98	0.45
1:BA:1021:ARG:HH12	1:BA:1615:TYR:HA	1.82	0.45
1:BA:1317:ILE:HA	1:BA:1321:PHE:HB3	1.98	0.45
1:BA:1484:LEU:HD21	2:BB:304:ASP:HB3	1.98	0.45
1:BA:1655:ASP:HB2	6:BF:135:ARG:HB3	1.99	0.45
2:BB:202:LEU:HD13	2:BB:500:PHE:CE2	2.52	0.45
2:BB:290:ASP:C	2:BB:292:ILE:H	2.24	0.45
2:BB:863:ASP:OD2	2:BB:866:LEU:HD12	2.17	0.45
6:BF:100:GLN:HG2	7:BG:112:PRO:CB	2.47	0.45
11:BK:80:ILE:HG22	11:BK:86:VAL:HG21	1.98	0.45
13:BM:23:VAL:HG13	14:BN:108:THR:O	2.17	0.45
1:CA:127:TYR:CE2	1:CA:193:ILE:HD13	2.52	0.45
1:CA:1102:LEU:HD12	1:CA:1102:LEU:HA	1.65	0.45
1:CA:1102:LEU:HD12	1:CA:1105:ARG:HE	1.82	0.45
1:CA:1217:LEU:HD11	1:CA:1572:ARG:CD	2.47	0.45
2:CB:203:ILE:H	2:CB:203:ILE:HD12	1.82	0.45
2:CB:493:PHE:HE2	2:CB:762:MET:HE1	1.81	0.45
2:CB:655:TYR:HD1	2:CB:688:HIS:NE2	2.14	0.45
2:CB:832:TRP:HE3	2:CB:834:LYS:H	1.65	0.45
2:CB:834:LYS:HB2	1:DA:553:GLN:NE2	2.31	0.45
2:CB:858:ILE:HD11	2:CB:872:LYS:HB3	1.98	0.45
8:CH:42:ILE:HG23	8:CH:95:TYR:CE2	2.52	0.45
1:DA:18:ILE:HA	2:DB:1193:GLY:O	2.15	0.45
1:DA:385:LEU:O	1:DA:389:VAL:HG23	2.17	0.45
1:DA:499:PRO:HG3	1:DA:609:PRO:HA	1.98	0.45
1:DA:595:LEU:HD22	1:DA:595:LEU:HA	1.72	0.45
1:DA:937:ASN:O	1:DA:940:VAL:HB	2.17	0.45
1:DA:956:ARG:HB3	1:DA:957:VAL:H	1.51	0.45
1:DA:1490:GLU:HG2	9:DI:55:ALA:HB1	1.98	0.45
1:DA:1582:LEU:O	1:DA:1583:ASP:C	2.60	0.45
1:DA:1649:VAL:HG11	2:DB:1080:ILE:O	2.17	0.45
2:DB:460:LYS:O	2:DB:463:TYR:HB3	2.17	0.45
2:DB:825:PHE:HZ	2:DB:899:GLN:O	1.99	0.45
3:DC:45:SER:HB3	3:DC:53:ASN:HB3	1.99	0.45
4:DD:14:THR:OG1	4:DD:16:LEU:HB2	2.17	0.45
5:DE:157:SER:OG	5:DE:160:GLU:HG3	2.16	0.45
7:DG:100:THR:O	7:DG:102:GLU:N	2.49	0.45
8:DH:138:GLU:HB2	8:DH:139:ASN:H	1.59	0.45
9:DI:57:PRO:HA	9:DI:61:ARG:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:DM:16:GLN:HB3	13:DM:91:TYR:HA	1.99	0.45
14:DN:110:LEU:CD2	14:DN:121:ILE:HA	2.47	0.45
1:EA:62:CYS:HB2	1:EA:72:CYS:SG	2.57	0.45
1:EA:223:PHE:CE2	1:EA:227:LEU:HD11	2.52	0.45
1:EA:426:ALA:O	1:EA:430:ILE:HG22	2.17	0.45
1:EA:825:ALA:HB1	2:EB:776:ILE:CD1	2.34	0.45
1:EA:1637:PRO:CG	1:EA:1647:ASN:HD21	2.28	0.45
2:EB:156:ARG:HD2	2:EB:156:ARG:HA	1.50	0.45
2:EB:347:LEU:HD13	2:EB:347:LEU:HA	1.70	0.45
2:EB:703:LEU:HD21	2:EB:757:TYR:HD2	1.82	0.45
2:EB:874:TYR:CZ	2:EB:876:SER:HB2	2.52	0.45
2:EB:949:ILE:HG13	2:EB:950:ASN:N	2.31	0.45
2:EB:960:ILE:O	2:EB:963:PHE:N	2.50	0.45
2:EB:1053:ASN:ND2	2:EB:1054:SER:N	2.63	0.45
2:EB:1160:GLU:HG2	2:EB:1166:LYS:HG2	1.98	0.45
5:EE:148:GLU:H	5:EE:148:GLU:HG3	1.53	0.45
6:EF:60:GLN:O	6:EF:64:ILE:HG13	2.16	0.45
7:EG:26:ASN:ND2	7:EG:37:CYS:SG	2.90	0.45
1:FA:713:VAL:HB	1:FA:738:ASN:HD21	1.82	0.45
1:FA:967:PRO:O	2:FB:674:ILE:N	2.50	0.45
1:FA:1010:ALA:HB1	2:FB:536:GLY:HA2	1.99	0.45
1:FA:1262:LEU:HD12	1:FA:1264:SER:OG	2.17	0.45
1:FA:1310:LYS:O	1:FA:1313:LEU:HB3	2.17	0.45
1:FA:1557:ALA:O	1:FA:1558:ALA:C	2.60	0.45
2:FB:72:VAL:HG11	2:FB:94:LYS:HE3	1.98	0.45
2:FB:95:LEU:HD22	2:FB:440:PHE:CD1	2.52	0.45
2:FB:376:PHE:CD2	2:FB:376:PHE:C	2.95	0.45
5:FE:46:TYR:HA	5:FE:57:MET:HE2	1.98	0.45
5:FE:71:LYS:NZ	5:FE:160:GLU:OE2	2.40	0.45
6:FF:76:LYS:HG3	6:FF:79:ARG:CZ	2.47	0.45
1:AA:10:GLU:CG	1:AA:1645:LYS:HE3	2.47	0.45
1:AA:497:VAL:HG23	1:AA:606:ARG:O	2.17	0.45
1:AA:778:CYS:SG	1:AA:779:GLY:N	2.90	0.45
1:AA:858:ALA:O	1:AA:862:THR:OG1	2.33	0.45
1:AA:939:ASN:O	1:AA:942:GLN:HB2	2.17	0.45
1:AA:1139:ASN:HB2	5:AE:205:SER:HA	1.98	0.45
1:AA:1546:VAL:HG21	1:AA:1595:TYR:CE2	2.52	0.45
3:AC:137:ASN:CG	3:AC:203:SER:HB2	2.42	0.45
3:AC:209:ILE:HG12	3:AC:210:LEU:O	2.16	0.45
8:AH:38:LEU:HD13	8:AH:125:LEU:HB2	1.99	0.45
12:AL:31:CYS:HA	12:AL:56:LEU:HD23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:44:LYS:HD2	13:AM:44:LYS:HA	1.67	0.45
1:BA:103:LEU:HD11	1:BA:243:PHE:HZ	1.81	0.45
1:BA:324:LEU:HD23	1:BA:324:LEU:HA	1.83	0.45
1:BA:473:GLY:HA2	2:BB:1071:VAL:O	2.17	0.45
1:BA:1555:VAL:HG13	1:BA:1556:GLU:H	1.82	0.45
2:BB:539:CYS:C	2:BB:541:LEU:H	2.25	0.45
2:BB:789:ILE:HD13	2:BB:789:ILE:HA	1.84	0.45
3:BC:131:THR:HG22	3:BC:132:ILE:H	1.82	0.45
3:BC:167:LEU:HD21	3:BC:193:LEU:HD21	1.98	0.45
5:BE:120:ALA:O	5:BE:123:LEU:HB2	2.17	0.45
5:BE:139:ALA:C	5:BE:141:VAL:H	2.23	0.45
14:BN:55:LEU:HB3	14:BN:136:VAL:CG2	2.47	0.45
14:BN:66:LYS:HB2	8:DH:77:ARG:HH12	1.82	0.45
1:CA:514:TYR:OH	6:CF:102:SER:HA	2.17	0.45
1:CA:646:GLU:OE1	2:CB:1086:PHE:HB2	2.16	0.45
1:CA:729:LYS:HE3	1:CA:779:GLY:O	2.17	0.45
1:CA:804:GLU:O	1:CA:805:VAL:C	2.59	0.45
1:CA:1242:ILE:CD1	1:CA:1517:ARG:HB3	2.46	0.45
1:CA:1317:ILE:HA	1:CA:1321:PHE:HB3	1.99	0.45
1:CA:1604:GLU:HA	1:CA:1612:LYS:HE2	1.99	0.45
2:CB:615:GLY:C	2:CB:617:THR:H	2.24	0.45
2:CB:848:ILE:HG13	12:CL:59:ALA:O	2.17	0.45
2:CB:1056:THR:HB	2:CB:1058:GLN:HG3	1.99	0.45
3:CC:81:GLU:OE1	3:CC:81:GLU:HA	2.16	0.45
4:CD:22:ILE:HD12	7:CG:45:LEU:HA	1.99	0.45
5:CE:56:LYS:HG3	5:CE:84:ASP:OD2	2.17	0.45
7:CG:46:TYR:HD1	7:CG:117:TRP:HD1	1.65	0.45
13:CM:65:TYR:O	13:CM:97:VAL:N	2.45	0.45
14:CN:26:PRO:HB2	14:CN:29:PHE:CE1	2.52	0.45
1:DA:407:GLN:H	1:DA:407:GLN:HG2	1.53	0.45
1:DA:659:THR:HG22	1:DA:666:VAL:HG22	1.99	0.45
1:DA:1086:ILE:HD13	1:DA:1086:ILE:HA	1.84	0.45
1:DA:1102:LEU:HD12	1:DA:1105:ARG:HE	1.81	0.45
1:DA:1317:ILE:HA	1:DA:1321:PHE:HB3	1.98	0.45
3:DC:188:ASP:O	3:DC:191:ILE:HG13	2.17	0.45
4:DD:19:PRO:HB3	7:DG:46:TYR:O	2.17	0.45
5:DE:55:ARG:O	5:DE:58:MET:HB2	2.17	0.45
14:DN:75:GLU:C	14:DN:91:ASP:HB3	2.42	0.45
7:DO:276:LYS:O	7:DO:279:VAL:N	2.50	0.45
2:EB:1052:VAL:HG12	2:EB:1059:PRO:HG3	1.99	0.45
2:EB:1119:ARG:HD2	2:EB:1119:ARG:HA	1.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:277:ARG:NH1	3:EC:291:LEU:HD13	2.32	0.45
9:EI:109:THR:HG21	9:EI:122:ARG:CZ	2.47	0.45
13:EM:51:PHE:O	13:EM:66:THR:HG23	2.17	0.45
1:FA:11:ILE:HD12	1:FA:11:ILE:O	2.17	0.45
1:FA:82:PRO:HD3	1:FA:393:SER:OG	2.16	0.45
1:FA:615:ARG:NH2	2:FB:928:SER:O	2.50	0.45
1:FA:646:GLU:C	1:FA:648:LEU:H	2.25	0.45
1:FA:1640:ARG:O	1:FA:1643:VAL:N	2.50	0.45
2:FB:140:LYS:HE2	2:FB:153:PHE:CD2	2.52	0.45
2:FB:346:ASP:OD1	13:FM:113:ILE:HG23	2.16	0.45
2:FB:548:LYS:HG2	2:FB:550:ARG:NH2	2.31	0.45
2:FB:675:ALA:HB2	2:FB:686:HIS:CG	2.52	0.45
2:FB:975:HIS:NE2	2:FB:1003:ALA:HB2	2.31	0.45
3:FC:68:ARG:O	3:FC:70:ILE:N	2.50	0.45
3:FC:98:ALA:O	3:FC:99:HIS:C	2.58	0.45
4:FD:19:PRO:HG3	7:FG:47:VAL:CG1	2.47	0.45
5:FE:139:ALA:O	5:FE:141:VAL:N	2.50	0.45
6:FF:67:LYS:O	6:FF:71:GLU:HG3	2.17	0.45
6:FF:123:LYS:O	6:FF:126:ALA:HB3	2.17	0.45
7:FG:29:ASP:C	7:FG:31:LYS:N	2.73	0.45
7:FG:80:VAL:O	7:FG:124:VAL:HG13	2.17	0.45
7:FG:168:PHE:HD1	7:FG:217:TRP:CE2	2.35	0.45
1:AA:596:HIS:CD2	1:AA:596:HIS:N	2.83	0.44
1:AA:829:GLY:HA2	2:AB:1027:TYR:CD2	2.52	0.44
1:AA:1162:ASN:O	1:AA:1165:LYS:HB2	2.17	0.44
1:AA:1296:PHE:O	1:AA:1468:LYS:NZ	2.48	0.44
2:AB:548:LYS:HG2	2:AB:550:ARG:NH2	2.32	0.44
2:AB:615:GLY:C	2:AB:617:THR:H	2.25	0.44
2:AB:708:ASP:OD1	2:AB:708:ASP:N	2.50	0.44
2:AB:728:THR:HG21	2:AB:765:PHE:HA	1.98	0.44
2:AB:825:PHE:HZ	2:AB:899:GLN:O	1.99	0.44
2:AB:897:GLU:O	2:AB:898:LEU:C	2.60	0.44
2:AB:1110:ILE:HD13	2:AB:1111:LEU:HD23	1.99	0.44
8:AH:50:ALA:O	8:AH:53:ASP:HB2	2.17	0.44
8:AH:101:ALA:HB2	8:AH:116:TYR:HE1	1.82	0.44
11:AK:51:THR:O	11:AK:54:THR:OG1	2.33	0.44
1:BA:729:LYS:HE3	1:BA:779:GLY:O	2.17	0.44
1:BA:821:ILE:CD1	2:BB:777:SER:HB2	2.47	0.44
1:BA:1031:HIS:HB2	1:BA:1182:GLY:O	2.17	0.44
1:BA:1440:ASN:O	1:BA:1444:ARG:HB3	2.16	0.44
2:BB:555:GLN:NE2	2:BB:644:GLY:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:902:SER:OG	2:BB:903:ILE:N	2.50	0.44
2:BB:979:GLN:OE1	2:BB:979:GLN:HA	2.17	0.44
3:BC:237:GLN:NE2	3:BC:288:LYS:HE2	2.32	0.44
5:BE:64:PRO:HB3	5:BE:68:SER:CB	2.48	0.44
5:BE:72:PHE:CZ	5:BE:155:ARG:HG2	2.52	0.44
9:BI:11:LEU:H	9:BI:11:LEU:HD12	1.82	0.44
1:CA:138:GLU:O	1:CA:139:ILE:HD13	2.18	0.44
1:CA:505:LEU:O	1:CA:581:ILE:HG22	2.17	0.44
1:CA:722:PRO:HD2	8:CH:46:LEU:HD13	1.98	0.44
1:CA:920:PHE:CG	1:CA:921:PRO:HA	2.52	0.44
1:CA:1081:ASN:ND2	1:CA:1084:ALA:HB2	2.33	0.44
1:CA:1437:ASN:OD1	1:CA:1439:MET:HE3	2.16	0.44
2:CB:878:GLU:HA	2:CB:879:PRO:HD2	1.82	0.44
2:CB:1112:THR:OG1	2:CB:1128:CYS:SG	2.75	0.44
3:CC:188:ASP:O	3:CC:191:ILE:HG13	2.17	0.44
6:CF:129:LYS:HD3	6:CF:129:LYS:HA	1.69	0.44
10:CJ:18:TRP:CZ2	10:CJ:53:HIS:HD2	2.34	0.44
10:CJ:41:LEU:HD22	10:CJ:46:CYS:HB3	1.98	0.44
11:CK:119:LYS:O	11:CK:123:ASP:HB2	2.17	0.44
1:DA:669:LEU:HA	1:DA:669:LEU:HD23	1.66	0.44
1:DA:1073:TYR:HD2	1:DA:1074:TYR:CE2	2.34	0.44
1:DA:1095:LEU:CD2	1:DA:1134:GLY:HA3	2.47	0.44
2:DB:501:ARG:HG3	2:DB:699:ILE:CD1	2.47	0.44
2:DB:696:ILE:HD12	2:DB:697:LEU:HG	2.00	0.44
2:DB:728:THR:HG21	2:DB:765:PHE:HA	1.98	0.44
2:DB:837:LEU:HD22	2:DB:837:LEU:HA	1.52	0.44
2:DB:1018:THR:HB	2:DB:1020:GLU:OE1	2.18	0.44
7:DG:91:ASP:OD2	7:DG:103:LYS:HG2	2.17	0.44
8:DH:100:THR:O	8:DH:116:TYR:HA	2.16	0.44
1:EA:197:LEU:HD21	1:EA:203:THR:O	2.17	0.44
1:EA:1189:ALA:O	1:EA:1193:VAL:HG23	2.17	0.44
1:EA:1321:PHE:HD1	1:EA:1496:SER:OG	2.00	0.44
2:EB:834:LYS:HD3	2:EB:835:GLU:OE1	2.17	0.44
2:EB:891:GLU:O	2:EB:893:ASN:N	2.50	0.44
5:EE:198:ILE:O	5:EE:199:ILE:HD13	2.16	0.44
6:EF:106:PRO:HG2	7:EG:55:GLU:HG2	1.99	0.44
12:EL:63:ARG:HG2	12:EL:64:LEU:N	2.29	0.44
1:FA:335:LEU:O	1:FA:339:PHE:HD1	2.00	0.44
1:FA:379:GLU:OE2	7:FO:289:LYS:HG3	2.17	0.44
1:FA:1073:TYR:HD2	1:FA:1074:TYR:CE2	2.34	0.44
2:FB:206:LEU:HD23	2:FB:206:LEU:HA	1.84	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:999:GLN:NE2	14:FN:166:LEU:HD21	2.32	0.44
2:FB:1011:GLU:HA	2:FB:1012:PRO:HD3	1.87	0.44
3:FC:41:GLU:O	3:FC:57:ILE:HD12	2.17	0.44
3:FC:86:PHE:O	3:FC:87:ASN:HB2	2.17	0.44
13:FM:65:TYR:O	13:FM:97:VAL:N	2.42	0.44
14:FN:71:PRO:HD2	14:FN:89:ILE:HD11	1.98	0.44
2:AB:194:PHE:O	2:AB:200:GLU:HA	2.17	0.44
2:AB:887:LEU:O	2:AB:888:ILE:HD12	2.17	0.44
3:AC:97:LEU:HD23	3:AC:97:LEU:HA	1.57	0.44
7:AG:38:ILE:H	7:AG:38:ILE:HG13	1.31	0.44
7:AG:39:VAL:HB	7:AG:126:GLN:HE21	1.82	0.44
7:AG:158:LYS:O	7:AG:162:ILE:HG13	2.17	0.44
13:AM:80:LEU:HD22	14:AN:51:GLN:OE1	2.17	0.44
1:BA:2:ASP:HB3	1:BA:5:LYS:HD3	1.99	0.44
1:BA:477:ASN:OD1	2:BB:1049:THR:HG23	2.16	0.44
2:BB:472:SER:OG	2:BB:473:GLN:N	2.50	0.44
2:BB:662:ASP:O	2:BB:663:ILE:HB	2.17	0.44
5:BE:76:GLY:H	5:BE:106:GLN:HG2	1.83	0.44
8:BH:33:GLN:HG3	8:BH:131:ASN:HD21	1.82	0.44
10:BJ:43:ARG:NH1	10:BJ:46:CYS:SG	2.90	0.44
1:CA:1012:LYS:HE3	2:CB:515:THR:HG23	1.99	0.44
1:CA:1457:ILE:HA	1:CA:1474:LEU:CD2	2.47	0.44
2:CB:59:GLY:O	2:CB:61:LEU:N	2.50	0.44
2:CB:94:LYS:HG2	2:CB:147:ASN:H	1.82	0.44
2:CB:372:ARG:HA	2:CB:375:LEU:HD12	1.99	0.44
2:CB:1047:ARG:NH2	2:CB:1059:PRO:HB3	2.32	0.44
2:CB:1053:ASN:HD22	2:CB:1054:SER:H	1.64	0.44
3:CC:134:LEU:HD23	3:CC:169:PHE:HA	1.99	0.44
10:CJ:54:VAL:O	10:CJ:56:LEU:N	2.38	0.44
14:CN:171:PHE:CE1	14:CN:180:PHE:HE2	2.34	0.44
1:DA:9:SER:OG	4:DD:20:VAL:HG21	2.18	0.44
1:DA:363:PRO:HB3	2:DB:1187:SER:OG	2.17	0.44
1:DA:756:LYS:C	1:DA:758:GLU:N	2.75	0.44
1:DA:854:GLY:O	1:DA:974:THR:HB	2.17	0.44
1:DA:1325:LEU:HD22	1:DA:1492:ILE:HG21	1.97	0.44
2:DB:14:ALA:HB2	2:DB:980:ASP:CB	2.46	0.44
2:DB:260:PHE:HD1	2:DB:260:PHE:C	2.25	0.44
2:DB:304:ASP:O	2:DB:308:LEU:HG	2.17	0.44
2:DB:970:LYS:HE3	2:DB:1029:GLY:HA2	1.99	0.44
3:DC:96:VAL:O	3:DC:97:LEU:C	2.61	0.44
1:EA:50:TYR:OH	1:EA:370:PRO:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1566:ILE:HG13	1:EA:1566:ILE:H	1.15	0.44
1:EA:1590:THR:OG1	5:EE:212:ARG:NH2	2.50	0.44
2:EB:59:GLY:O	2:EB:60:LEU:C	2.60	0.44
2:EB:475:GLY:C	2:EB:477:ASP:N	2.74	0.44
3:EC:203:SER:O	3:EC:204:LEU:HB3	2.16	0.44
14:EN:82:ILE:HB	14:EN:87:TYR:CE1	2.53	0.44
1:FA:49:LEU:HD23	1:FA:49:LEU:HA	1.81	0.44
1:FA:597:LYS:HB2	2:FB:1082:HIS:CE1	2.52	0.44
1:FA:1045:LEU:O	5:FE:176:PRO:HG3	2.16	0.44
2:FB:95:LEU:HD21	2:FB:143:TRP:CZ2	2.52	0.44
2:FB:1119:ARG:HD2	2:FB:1119:ARG:HA	1.61	0.44
3:FC:101:ILE:C	3:FC:103:LEU:N	2.75	0.44
3:FC:215:ASP:OD2	12:FL:70:ARG:NH2	2.49	0.44
3:FC:312:GLU:O	3:FC:315:PHE:N	2.51	0.44
5:FE:178:ILE:HD11	5:FE:182:ASP:HB3	1.99	0.44
10:FJ:45:CYS:HA	10:FJ:48:ARG:NH1	2.32	0.44
1:AA:457:LYS:C	1:AA:459:ALA:N	2.76	0.44
1:AA:772:LYS:HE3	1:AA:772:LYS:HB3	1.86	0.44
1:AA:960:MET:HE1	1:AA:967:PRO:HD3	1.98	0.44
1:AA:1105:ARG:NH1	1:AA:1138:GLU:OE1	2.47	0.44
1:AA:1238:MET:HG3	1:AA:1524:VAL:HG22	1.98	0.44
1:AA:1348:VAL:HG13	2:AB:268:GLU:O	2.16	0.44
1:AA:1477:ALA:O	1:AA:1480:THR:OG1	2.33	0.44
1:AA:1585:ILE:H	1:AA:1585:ILE:HG12	1.14	0.44
2:AB:36:PRO:O	2:AB:39:GLN:HG3	2.17	0.44
2:AB:104:ILE:HD12	2:AB:169:ARG:HG3	1.98	0.44
2:AB:205:MET:HE2	2:AB:502:MET:O	2.17	0.44
2:AB:210:ARG:NH2	2:AB:625:GLU:CD	2.75	0.44
2:AB:1053:ASN:O	2:AB:1057:MET:HE2	2.16	0.44
2:AB:1178:ILE:HB	2:AB:1182:LEU:HD23	2.00	0.44
3:AC:83:VAL:HG22	3:AC:206:ALA:HB1	1.99	0.44
3:AC:131:THR:HG22	3:AC:132:ILE:H	1.82	0.44
6:AF:60:GLN:O	6:AF:64:ILE:HG13	2.17	0.44
7:AG:105:ILE:HG12	7:AG:116:THR:CB	2.43	0.44
8:AH:97:MET:HB3	8:AH:118:PHE:CD1	2.53	0.44
12:AL:30:ILE:HD12	12:AL:59:ALA:HB2	1.99	0.44
14:AN:97:SER:OG	14:AN:98:SER:N	2.49	0.44
1:BA:1437:ASN:OD1	1:BA:1439:MET:HE3	2.17	0.44
2:BB:413:LEU:HD13	2:BB:413:LEU:HA	1.72	0.44
2:BB:642:LEU:HD22	2:BB:642:LEU:HA	1.76	0.44
3:BC:100:ARG:HH12	3:BC:193:LEU:CA	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:128:ASP:C	3:BC:130:ASN:N	2.75	0.44
8:BH:12:VAL:HG12	8:BH:51:ALA:HA	1.99	0.44
1:CA:41:LEU:HB3	1:CA:43:HIS:CE1	2.53	0.44
1:CA:349:LEU:HD12	1:CA:351:LYS:HE3	1.98	0.44
1:CA:1028:GLU:HA	1:CA:1187:ILE:CG1	2.41	0.44
2:CB:38:LEU:HD21	2:CB:760:TYR:O	2.16	0.44
2:CB:169:ARG:HD3	2:CB:169:ARG:HA	1.78	0.44
2:CB:462:GLN:O	2:CB:466:SER:N	2.51	0.44
2:CB:470:LEU:HD22	2:CB:484:TYR:CE1	2.53	0.44
2:CB:744:LEU:HD12	2:CB:800:TYR:O	2.16	0.44
2:CB:931:TRP:HA	2:CB:932:PRO:HD3	1.87	0.44
2:CB:1052:VAL:HG22	7:CO:307:GLU:O	2.16	0.44
3:CC:59:ILE:HG12	3:CC:60:ASP:N	2.30	0.44
7:CG:66:LEU:HB3	7:CG:84:TYR:CE2	2.52	0.44
9:CI:109:THR:HG21	9:CI:122:ARG:NH1	2.32	0.44
14:CN:107:MET:N	14:CN:107:MET:SD	2.88	0.44
1:DA:369:LEU:HA	1:DA:370:PRO:HD3	1.84	0.44
1:DA:707:THR:O	1:DA:708:THR:OG1	2.33	0.44
1:DA:1138:GLU:O	1:DA:1141:GLN:HB3	2.17	0.44
2:DB:971:ALA:O	2:DB:973:ALA:N	2.49	0.44
2:DB:1046:VAL:HG22	2:DB:1047:ARG:N	2.32	0.44
2:DB:1053:ASN:ND2	2:DB:1054:SER:N	2.64	0.44
4:DD:88:GLN:NE2	4:DD:91:ARG:HH21	2.15	0.44
5:DE:47:CYS:SG	5:DE:53:PRO:HA	2.57	0.44
7:DG:43:ILE:C	7:DG:43:ILE:HD12	2.42	0.44
9:DI:101:LEU:CD1	9:DI:122:ARG:HH22	2.30	0.44
11:DK:45:GLU:H	11:DK:45:GLU:HG3	1.38	0.44
13:DM:23:VAL:HG13	14:DN:108:THR:O	2.17	0.44
1:EA:457:LYS:C	1:EA:459:ALA:N	2.73	0.44
1:EA:663:GLY:O	1:EA:790:LYS:HE3	2.17	0.44
1:EA:939:ASN:O	1:EA:942:GLN:HB2	2.17	0.44
2:EB:463:TYR:CD1	2:EB:463:TYR:C	2.93	0.44
2:EB:768:GLY:HA3	2:EB:1032:TYR:CZ	2.52	0.44
2:EB:944:GLN:HA	2:EB:945:PRO:HD3	1.69	0.44
3:EC:96:VAL:O	3:EC:97:LEU:C	2.61	0.44
3:EC:172:GLN:H	3:EC:175:GLN:CD	2.26	0.44
3:EC:316:LYS:O	3:EC:320:ILE:N	2.42	0.44
5:EE:177:ARG:NH1	5:EE:179:GLN:HE22	2.14	0.44
9:EI:19:ASN:OD1	9:EI:20:PRO:HD2	2.18	0.44
10:EJ:21:TYR:CZ	10:EJ:25:LEU:HD11	2.52	0.44
13:EM:21:VAL:HB	14:EN:109:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:EM:30:PHE:CE1	13:EM:62:TYR:HE2	2.34	0.44
13:EM:70:SER:O	13:EM:74:ASN:HB2	2.17	0.44
1:FA:475:ARG:HB3	1:FA:475:ARG:HH11	1.82	0.44
1:FA:1291:VAL:HG22	1:FA:1473:LYS:CD	2.47	0.44
1:FA:1540:GLY:O	1:FA:1542:THR:N	2.48	0.44
1:FA:1579:PHE:HA	1:FA:1582:LEU:HG	1.98	0.44
2:FB:277:LEU:HG	2:FB:374:LEU:HD21	1.99	0.44
2:FB:1077:ASP:O	2:FB:1080:ILE:HB	2.18	0.44
3:FC:61:THR:HA	3:FC:298:PHE:CZ	2.52	0.44
4:FD:93:GLN:HG3	4:FD:94:ARG:N	2.31	0.44
11:FK:80:ILE:HG22	11:FK:86:VAL:HG21	1.98	0.44
13:FM:14:SER:O	13:FM:90:LEU:N	2.50	0.44
1:AA:247:GLY:O	1:AA:442:LYS:HG2	2.18	0.44
1:AA:395:LEU:HD21	7:AO:280:PHE:CD2	2.52	0.44
1:AA:899:LYS:O	1:AA:903:ILE:HG12	2.17	0.44
1:AA:947:LEU:HB2	1:AA:982:VAL:HG21	1.98	0.44
2:AB:140:LYS:HE2	2:AB:153:PHE:CD2	2.51	0.44
2:AB:219:ARG:HG2	2:AB:221:SER:HB3	1.99	0.44
2:AB:678:PRO:HB2	2:AB:679:GLN:NE2	2.32	0.44
2:AB:764:ASN:HB3	10:AJ:59:LYS:HZ1	1.83	0.44
2:AB:783:MET:O	2:AB:784:ASP:C	2.60	0.44
2:AB:895:PHE:O	2:AB:896:GLN:C	2.60	0.44
2:AB:1107:CYS:O	2:AB:1197:ARG:HG3	2.17	0.44
2:AB:1123:ILE:HD12	2:AB:1124:SER:H	1.82	0.44
14:AN:54:TRP:CZ2	14:AN:135:LYS:HD2	2.52	0.44
1:BA:1272:VAL:C	9:BI:48:VAL:HG13	2.43	0.44
2:BB:393:ASN:ND2	2:BB:395:ASP:HB2	2.33	0.44
4:BD:88:GLN:NE2	4:BD:91:ARG:HH21	2.16	0.44
7:BG:46:TYR:HD1	7:BG:117:TRP:HD1	1.65	0.44
9:BI:8:ILE:H	9:BI:16:LEU:CD1	2.30	0.44
1:CA:892:LEU:HD11	1:CA:956:ARG:NH1	2.32	0.44
1:CA:1291:VAL:HA	1:CA:1473:LYS:HB2	2.00	0.44
2:CB:460:LYS:O	2:CB:463:TYR:HB3	2.17	0.44
2:CB:903:ILE:HD13	2:CB:905:TYR:HE1	1.81	0.44
14:CN:124:THR:C	14:CN:126:LYS:H	2.23	0.44
1:DA:790:LYS:C	1:DA:792:GLY:H	2.24	0.44
1:DA:813:LEU:O	1:DA:816:LEU:N	2.51	0.44
1:DA:987:TYR:C	1:DA:987:TYR:HD2	2.25	0.44
1:DA:1241:PRO:HG3	1:DA:1540:GLY:C	2.42	0.44
2:DB:290:ASP:C	2:DB:292:ILE:H	2.25	0.44
2:DB:463:TYR:HE1	2:DB:467:THR:HG21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:989:ASP:HB3	2:DB:990:ASP:H	1.62	0.44
3:DC:132:ILE:HA	3:DC:132:ILE:HD13	1.77	0.44
3:DC:233:ILE:HD13	3:DC:233:ILE:HA	1.78	0.44
13:DM:65:TYR:O	13:DM:97:VAL:N	2.44	0.44
1:EA:689:ARG:HD2	8:EH:81:PRO:HG3	1.99	0.44
1:EA:952:LEU:HD22	1:EA:952:LEU:HA	1.86	0.44
1:EA:1195:GLU:HB3	1:EA:1196:PRO:HD3	1.99	0.44
1:EA:1202:LEU:HD11	9:EI:101:LEU:HD21	1.98	0.44
1:EA:1484:LEU:HG	2:EB:308:LEU:HD11	1.98	0.44
1:EA:1555:VAL:HG13	1:EA:1556:GLU:N	2.32	0.44
2:EB:38:LEU:HD21	2:EB:760:TYR:O	2.17	0.44
2:EB:137:LEU:HD23	2:EB:161:LEU:HD23	2.00	0.44
2:EB:392:ASP:HB3	2:EB:399:HIS:NE2	2.32	0.44
2:EB:1060:VAL:HG22	2:EB:1061:LYS:N	2.32	0.44
2:EB:1110:ILE:HD13	2:EB:1111:LEU:CD2	2.47	0.44
3:EC:216:HIS:ND1	3:EC:218:LYS:HB3	2.31	0.44
3:EC:273:ASP:CG	3:EC:275:VAL:H	2.25	0.44
6:EF:102:SER:HB3	6:EF:117:PRO:HB3	1.98	0.44
1:FA:223:PHE:CE2	1:FA:227:LEU:HD11	2.51	0.44
1:FA:379:GLU:HA	7:FO:292:HIS:CD2	2.53	0.44
1:FA:597:LYS:HB2	2:FB:1082:HIS:NE2	2.33	0.44
1:FA:1105:ARG:HH22	1:FA:1138:GLU:CD	2.26	0.44
1:FA:1195:GLU:HB3	1:FA:1196:PRO:HD3	1.99	0.44
2:FB:378:ILE:H	2:FB:378:ILE:HG12	1.62	0.44
2:FB:378:ILE:O	2:FB:381:LEU:HB3	2.16	0.44
2:FB:848:ILE:CG1	12:FL:60:ARG:HA	2.47	0.44
2:FB:1104:CYS:SG	2:FB:1106:GLU:HB2	2.57	0.44
3:FC:135:SER:O	3:FC:168:LYS:HG3	2.18	0.44
3:FC:210:LEU:H	3:FC:210:LEU:HD12	1.81	0.44
6:FF:153:VAL:O	6:FF:154:ASP:HB2	2.18	0.44
7:FG:43:ILE:H	7:FG:43:ILE:HG13	1.67	0.44
7:FG:134:GLU:O	7:FG:149:ILE:HG23	2.17	0.44
1:AA:90:PHE:CE1	1:AA:1623:THR:HG23	2.53	0.44
1:AA:476:VAL:HG23	2:AB:1091:ARG:HH21	1.82	0.44
1:AA:646:GLU:OE1	2:AB:1084:THR:HB	2.17	0.44
1:AA:1317:ILE:HA	1:AA:1321:PHE:HB3	1.98	0.44
2:AB:70:GLU:CD	2:AB:96:SER:HB2	2.43	0.44
2:AB:744:LEU:HD12	2:AB:800:TYR:O	2.16	0.44
3:AC:85:PHE:HA	3:AC:204:LEU:HD13	1.99	0.44
4:AD:93:GLN:HG3	4:AD:94:ARG:N	2.31	0.44
2:BB:45:HIS:H	2:BB:45:HIS:CD2	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:315:LYS:HG3	2:BB:316:ARG:N	2.31	0.44
2:BB:792:SER:HB2	2:BB:933:THR:HB	1.99	0.44
3:BC:203:SER:O	3:BC:204:LEU:HB3	2.17	0.44
4:BD:89:LEU:O	4:BD:92:ILE:N	2.47	0.44
10:BJ:33:GLY:O	10:BJ:47:ARG:NH2	2.50	0.44
11:BK:59:THR:HA	11:BK:107:THR:HG23	2.00	0.44
13:BM:76:TYR:CE1	14:BN:57:LYS:HG3	2.53	0.44
7:BO:284:VAL:O	7:BO:288:ASN:HB2	2.17	0.44
1:CA:16:PHE:CD1	1:CA:16:PHE:N	2.85	0.44
1:CA:416:ARG:O	1:CA:419:ILE:HB	2.18	0.44
1:CA:783:LYS:HE3	1:CA:932:GLY:HA3	1.99	0.44
1:CA:1238:MET:SD	1:CA:1524:VAL:HA	2.57	0.44
1:CA:1481:GLU:O	1:CA:1482:LYS:C	2.61	0.44
2:CB:260:PHE:HD1	2:CB:260:PHE:C	2.25	0.44
2:CB:373:MET:O	2:CB:376:PHE:HB3	2.18	0.44
2:CB:651:ARG:O	2:CB:663:ILE:HD12	2.17	0.44
2:CB:840:LEU:HD23	2:CB:845:LEU:C	2.42	0.44
3:CC:71:MET:HE3	3:CC:71:MET:HB3	1.77	0.44
5:CE:139:ALA:C	5:CE:141:VAL:N	2.76	0.44
7:CG:57:PRO:O	7:CG:58:LEU:C	2.60	0.44
1:DA:497:VAL:HB	1:DA:607:VAL:HA	1.99	0.44
1:DA:556:ALA:C	1:DA:558:ALA:N	2.75	0.44
1:DA:1637:PRO:HG3	1:DA:1647:ASN:HD21	1.81	0.44
2:DB:59:GLY:O	2:DB:61:LEU:N	2.51	0.44
2:DB:134:ARG:HB2	2:DB:161:LEU:C	2.42	0.44
2:DB:140:LYS:HE2	2:DB:153:PHE:HD2	1.83	0.44
2:DB:205:MET:HB2	2:DB:502:MET:O	2.17	0.44
2:DB:215:MET:O	2:DB:234:ILE:HD13	2.18	0.44
2:DB:529:CYS:SG	2:DB:530:PRO:HD2	2.56	0.44
2:DB:848:ILE:HD12	2:DB:885:VAL:CG2	2.47	0.44
2:DB:858:ILE:HG12	2:DB:859:CYS:N	2.33	0.44
2:DB:893:ASN:ND2	2:DB:895:PHE:CD1	2.86	0.44
2:DB:1180:PHE:O	2:DB:1182:LEU:N	2.50	0.44
3:DC:277:ARG:NH1	3:DC:291:LEU:HD13	2.33	0.44
4:DD:22:ILE:H	7:DG:76:LYS:NZ	2.16	0.44
7:DG:97:LYS:H	7:DG:97:LYS:HG3	1.59	0.44
7:DG:218:VAL:HA	7:DG:224:PRO:HA	1.99	0.44
13:DM:16:GLN:HB3	13:DM:92:LYS:H	1.82	0.44
1:EA:76:GLN:NE2	2:EB:1111:LEU:HD12	2.32	0.44
1:EA:425:ASN:OD1	7:EO:273:VAL:N	2.49	0.44
1:EA:949:GLN:HA	1:EA:981:TYR:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1067:GLU:C	1:EA:1069:CYS:N	2.75	0.44
1:EA:1168:ALA:O	1:EA:1171:GLN:N	2.51	0.44
1:EA:1597:ALA:O	1:EA:1602:GLY:HA3	2.18	0.44
2:EB:184:LYS:HE2	2:EB:735:HIS:CD2	2.52	0.44
2:EB:555:GLN:HE21	2:EB:556:SER:N	2.15	0.44
2:EB:717:TYR:HB2	9:EI:104:ALA:HB1	2.00	0.44
2:EB:858:ILE:HD13	2:EB:873:THR:O	2.18	0.44
3:EC:259:ASP:OD2	3:EC:262:SER:OG	2.28	0.44
4:ED:92:ILE:HG23	7:EG:150:HIS:O	2.18	0.44
8:EH:62:SER:HA	8:EH:141:TYR:CD1	2.52	0.44
8:EH:124:ARG:NH1	8:EH:126:GLU:OE1	2.50	0.44
9:EI:101:LEU:CD1	9:EI:122:ARG:HH22	2.30	0.44
1:FA:96:ILE:HG23	1:FA:228:LEU:HD21	1.98	0.44
1:FA:382:GLN:O	1:FA:386:LEU:HG	2.18	0.44
1:FA:1114:TYR:O	5:FE:152:LYS:NZ	2.38	0.44
1:FA:1175:MET:HE2	1:FA:1175:MET:HB3	1.78	0.44
1:FA:1325:LEU:HD22	1:FA:1492:ILE:HG21	1.99	0.44
1:FA:1490:GLU:O	1:FA:1493:CYS:HB2	2.18	0.44
2:FB:848:ILE:HD11	12:FL:58:LYS:HG2	1.99	0.44
2:FB:887:LEU:C	2:FB:888:ILE:HD12	2.42	0.44
7:FG:18:LYS:O	7:FG:20:HIS:N	2.50	0.44
11:FK:59:THR:HA	11:FK:107:THR:HG23	1.98	0.44
14:FN:26:PRO:HB2	14:FN:29:PHE:CE1	2.52	0.44
1:AA:429:THR:HG21	7:AO:274:SER:HA	1.99	0.44
1:AA:674:ILE:HG22	1:AA:675:SER:N	2.33	0.44
1:AA:1094:ALA:HB1	1:AA:1135:SER:HB2	2.00	0.44
1:AA:1460:TYR:HA	1:AA:1472:PHE:HB3	2.00	0.44
1:AA:1584:LEU:HD13	1:AA:1584:LEU:HA	1.86	0.44
2:AB:212:ASN:OD1	2:AB:239:VAL:HG13	2.17	0.44
2:AB:215:MET:O	2:AB:234:ILE:HD13	2.18	0.44
2:AB:526:GLY:N	2:AB:696:ILE:HG22	2.32	0.44
2:AB:662:ASP:O	2:AB:663:ILE:HB	2.17	0.44
2:AB:778:TYR:CE2	2:AB:937:PRO:HD3	2.53	0.44
2:AB:832:TRP:HE3	2:AB:834:LYS:H	1.65	0.44
2:AB:848:ILE:HG13	12:AL:59:ALA:O	2.18	0.44
2:AB:1011:GLU:C	2:AB:1025:ASP:HB3	2.42	0.44
7:AG:163:PRO:C	7:AG:165:ASP:H	2.26	0.44
13:AM:10:ILE:HD13	14:AN:70:LEU:HG	2.00	0.44
1:BA:1062:HIS:HD2	1:BA:1068:PHE:CD1	2.35	0.44
1:BA:1441:LYS:HA	1:BA:1444:ARG:HD2	1.99	0.44
2:BB:312:GLY:O	2:BB:316:ARG:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:526:GLY:N	2:BB:696:ILE:HG22	2.33	0.44
3:BC:83:VAL:HG22	3:BC:206:ALA:HB1	1.99	0.44
3:BC:121:PRO:O	3:BC:125:LYS:HB2	2.18	0.44
7:BG:60:GLY:O	7:BG:64:GLN:HB2	2.17	0.44
1:CA:76:GLN:NE2	2:CB:1111:LEU:HD12	2.29	0.44
1:CA:896:THR:HG21	1:CA:956:ARG:NH1	2.31	0.44
2:CB:45:HIS:CD2	2:CB:45:HIS:H	2.33	0.44
2:CB:379:ARG:CZ	2:CB:580:GLY:HA2	2.48	0.44
2:CB:548:LYS:HA	2:CB:550:ARG:NH1	2.32	0.44
2:CB:829:ASN:OD1	2:CB:829:ASN:N	2.50	0.44
2:CB:854:GLU:HG3	2:CB:875:HIS:HA	1.99	0.44
2:CB:887:LEU:HD13	12:CL:56:LEU:O	2.17	0.44
2:CB:972:GLY:O	2:CB:976:GLY:N	2.49	0.44
2:CB:1052:VAL:CG2	7:CO:308:ILE:HD13	2.47	0.44
6:CF:100:GLN:HG2	7:CG:112:PRO:HB3	2.00	0.44
10:CJ:45:CYS:O	10:CJ:49:MET:HG2	2.18	0.44
14:CN:157:ARG:HG2	14:CN:158:LYS:O	2.18	0.44
1:DA:93:GLN:HG3	1:DA:1627:LEU:HD13	1.98	0.44
1:DA:335:LEU:O	1:DA:339:PHE:HD1	2.00	0.44
1:DA:773:ASP:OD2	1:DA:773:ASP:N	2.50	0.44
1:DA:964:LYS:HZ3	1:DA:967:PRO:HA	1.82	0.44
1:DA:1018:TYR:OH	1:DA:1615:TYR:HE1	2.01	0.44
1:DA:1078:LYS:HD2	1:DA:1078:LYS:HA	1.73	0.44
1:DA:1440:ASN:OD1	1:DA:1440:ASN:N	2.50	0.44
1:DA:1446:ARG:HH22	1:DA:1462:PHE:H	1.65	0.44
2:DB:273:VAL:HA	2:DB:276:ILE:HD13	1.98	0.44
2:DB:902:SER:O	2:DB:903:ILE:HG23	2.17	0.44
2:DB:954:PHE:N	2:DB:955:PRO:HD2	2.33	0.44
3:DC:37:LYS:HD2	11:DK:130:VAL:HG22	2.00	0.44
3:DC:227:TYR:CD1	3:DC:298:PHE:HD2	2.36	0.44
4:DD:94:ARG:HD2	4:DD:99:LEU:HD13	1.99	0.44
5:DE:80:VAL:HG13	5:DE:109:ILE:HB	1.99	0.44
7:DG:86:GLY:C	7:DG:120:VAL:HG23	2.42	0.44
8:DH:124:ARG:NH1	8:DH:126:GLU:OE1	2.51	0.44
11:DK:80:ILE:HG22	11:DK:86:VAL:HG21	2.00	0.44
12:DL:63:ARG:HG3	12:DL:63:ARG:NH1	2.32	0.44
13:DM:23:VAL:HB	13:DM:95:VAL:HG22	2.00	0.44
13:DM:67:ASP:OD2	13:DM:69:SER:OG	2.33	0.44
1:EA:510:PRO:HG2	6:EF:102:SER:OG	2.18	0.44
1:EA:646:GLU:OE1	2:EB:1086:PHE:HB2	2.17	0.44
1:EA:836:THR:HG22	1:EA:916:THR:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1139:ASN:HB2	5:EE:205:SER:HA	1.99	0.44
2:EB:38:LEU:HD22	2:EB:38:LEU:N	2.32	0.44
2:EB:101:GLN:O	2:EB:139:LEU:HD22	2.18	0.44
2:EB:262:PHE:O	2:EB:268:GLU:HG2	2.18	0.44
2:EB:476:LEU:HD23	2:EB:476:LEU:HA	1.56	0.44
6:EF:141:GLY:O	6:EF:143:PHE:HD2	2.00	0.44
1:FA:113:VAL:HG11	1:FA:181:LEU:HD23	2.00	0.44
1:FA:507:TYR:OH	1:FA:641:GLU:N	2.51	0.44
1:FA:569:SER:OG	1:FA:570:THR:HG23	2.18	0.44
1:FA:644:ARG:HH21	6:FF:118:LEU:HD23	1.82	0.44
1:FA:752:LYS:HA	1:FA:769:VAL:HG23	1.99	0.44
1:FA:899:LYS:O	1:FA:903:ILE:HG12	2.18	0.44
1:FA:1124:LEU:HD23	1:FA:1124:LEU:HA	1.62	0.44
1:FA:1200:MET:HG2	1:FA:1573:TYR:CD2	2.52	0.44
1:FA:1440:ASN:O	1:FA:1444:ARG:HB3	2.17	0.44
1:FA:1457:ILE:HA	1:FA:1474:LEU:HD22	2.00	0.44
1:FA:1474:LEU:HD22	1:FA:1474:LEU:HA	1.65	0.44
2:FB:101:GLN:O	2:FB:139:LEU:HD22	2.18	0.44
2:FB:106:LYS:HB3	2:FB:171:HIS:CE1	2.52	0.44
2:FB:132:SER:HA	2:FB:195:ILE:O	2.17	0.44
2:FB:480:GLN:HG2	2:FB:484:TYR:OH	2.18	0.44
2:FB:874:TYR:CZ	2:FB:876:SER:HB2	2.52	0.44
2:FB:1020:GLU:HG3	3:FC:61:THR:OG1	2.18	0.44
2:FB:1110:ILE:HD13	2:FB:1111:LEU:HD23	1.99	0.44
5:FE:139:ALA:C	5:FE:141:VAL:H	2.24	0.44
6:FF:86:THR:HG23	6:FF:89:GLU:OE1	2.18	0.44
7:FG:57:PRO:O	7:FG:61:VAL:HG23	2.18	0.44
8:FH:33:GLN:HG3	8:FH:131:ASN:HD21	1.82	0.44
10:FJ:56:LEU:O	10:FJ:59:LYS:HB2	2.17	0.44
11:FK:45:GLU:H	11:FK:45:GLU:HG3	1.42	0.44
1:AA:4:SER:HB2	1:AA:573:LEU:CD2	2.48	0.44
1:AA:692:TYR:O	1:AA:696:ILE:HG12	2.18	0.44
1:AA:852:ASP:OD1	1:AA:855:ARG:NE	2.51	0.44
1:AA:856:GLU:H	1:AA:856:GLU:HG3	1.56	0.44
1:AA:1559:ARG:HD2	1:AA:1587:ASP:OD1	2.18	0.44
1:AA:1662:ASN:HB3	7:AG:57:PRO:CD	2.46	0.44
2:AB:21:ARG:HD3	2:AB:763:ASP:HB3	1.98	0.44
2:AB:617:THR:CB	2:AB:620:LEU:HD23	2.48	0.44
2:AB:693:PRO:C	2:AB:695:ASN:H	2.25	0.44
7:AG:99:ASP:O	7:AG:100:THR:C	2.60	0.44
7:AG:218:VAL:HA	7:AG:224:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:128:ASN:OD1	8:AH:130:ARG:HB2	2.17	0.44
9:AI:109:THR:HG21	9:AI:122:ARG:CZ	2.48	0.44
13:AM:18:GLN:HG3	13:AM:19:PRO:HD2	2.00	0.44
1:BA:16:PHE:N	1:BA:16:PHE:CD1	2.85	0.44
1:BA:342:ARG:CZ	1:BA:342:ARG:HB2	2.46	0.44
1:BA:621:THR:H	1:BA:621:THR:HG1	1.47	0.44
1:BA:657:TYR:O	1:BA:665:PRO:HA	2.17	0.44
1:BA:663:GLY:O	1:BA:790:LYS:HE3	2.18	0.44
1:BA:1011:VAL:HG21	2:BB:518:ARG:CD	2.48	0.44
1:BA:1348:VAL:HG11	2:BB:225:ARG:NH2	2.33	0.44
1:BA:1553:TYR:CE1	5:BE:147:HIS:CD2	3.06	0.44
2:BB:1007:TYR:C	2:BB:1009:GLY:H	2.26	0.44
3:BC:134:LEU:HD12	3:BC:208:CYS:SG	2.58	0.44
5:BE:39:LEU:O	5:BE:42:PHE:HB3	2.17	0.44
6:BF:79:ARG:HB3	6:BF:146:TRP:CZ2	2.53	0.44
7:BG:166:TRP:CE2	7:BG:219:ASP:HB2	2.53	0.44
8:BH:57:VAL:HG13	8:BH:144:ILE:CG1	2.48	0.44
8:BH:100:THR:O	8:BH:116:TYR:HA	2.18	0.44
9:BI:65:SER:OG	9:BI:66:VAL:N	2.51	0.44
14:BN:85:HIS:HB3	14:BN:87:TYR:CE1	2.52	0.44
1:CA:82:PRO:HG2	1:CA:396:ILE:CD1	2.45	0.44
1:CA:261:ILE:HG22	1:CA:265:ARG:HE	1.82	0.44
1:CA:659:THR:HG23	1:CA:664:SER:O	2.17	0.44
1:CA:832:ASP:OD2	1:CA:924:SER:OG	2.18	0.44
1:CA:928:MET:HG2	2:CB:955:PRO:HG3	1.99	0.44
1:CA:996:TYR:CE2	1:CA:1000:MET:HE2	2.52	0.44
1:CA:1263:LEU:HA	1:CA:1263:LEU:HD12	1.85	0.44
2:CB:181:VAL:HG22	10:CJ:63:TYR:OH	2.18	0.44
2:CB:296:ASP:C	2:CB:298:LYS:N	2.75	0.44
2:CB:703:LEU:HD23	2:CB:703:LEU:HA	1.75	0.44
2:CB:934:ILE:HG21	3:CC:73:SER:CB	2.46	0.44
5:CE:8:ASN:HA	5:CE:11:ARG:HG3	1.99	0.44
5:CE:178:ILE:HD11	5:CE:182:ASP:HB3	1.98	0.44
1:DA:142:GLY:O	1:DA:143:SER:C	2.60	0.44
1:DA:462:LYS:HD3	1:DA:469:LYS:HZ2	1.82	0.44
1:DA:631:ASP:OD1	1:DA:631:ASP:N	2.45	0.44
1:DA:1162:ASN:O	1:DA:1165:LYS:HB2	2.17	0.44
1:DA:1332:GLU:O	1:DA:1336:GLN:HG2	2.18	0.44
1:DA:1481:GLU:O	1:DA:1482:LYS:C	2.61	0.44
2:DB:894:LYS:HB2	2:DB:894:LYS:HE3	1.80	0.44
2:DB:965:GLU:HB3	2:DB:1031:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:1053:ASN:O	2:DB:1057:MET:HE2	2.18	0.44
5:DE:52:ARG:HA	5:DE:53:PRO:HD3	1.80	0.44
7:DG:39:VAL:HB	7:DG:126:GLN:HE21	1.83	0.44
7:DG:67:ASN:O	7:DG:70:VAL:HG23	2.17	0.44
13:DM:16:GLN:CB	13:DM:91:TYR:HA	2.48	0.44
1:EA:10:GLU:CG	1:EA:1645:LYS:HE3	2.47	0.44
1:EA:122:LEU:O	1:EA:126:GLN:HG3	2.17	0.44
1:EA:213:ASN:O	1:EA:216:ARG:HB3	2.18	0.44
1:EA:257:ASN:O	1:EA:261:ILE:HG13	2.18	0.44
1:EA:342:ARG:CZ	1:EA:342:ARG:HB2	2.46	0.44
1:EA:552:GLU:OE2	1:EA:552:GLU:N	2.51	0.44
1:EA:1136:VAL:HG22	1:EA:1174:TYR:CE1	2.51	0.44
1:EA:1162:ASN:H	1:EA:1165:LYS:HD2	1.81	0.44
2:EB:74:PHE:CD1	2:EB:94:LYS:HA	2.52	0.44
2:EB:483:GLY:C	2:EB:484:TYR:HD2	2.26	0.44
2:EB:728:THR:HG21	2:EB:765:PHE:HA	1.98	0.44
2:EB:872:LYS:HD3	2:EB:872:LYS:HA	1.66	0.44
2:EB:898:LEU:HD13	2:EB:898:LEU:HA	1.58	0.44
2:EB:964:VAL:O	2:EB:966:SER:N	2.50	0.44
3:EC:235:ILE:HA	3:EC:289:VAL:HG13	2.00	0.44
8:EH:138:GLU:HB2	8:EH:139:ASN:H	1.62	0.44
11:EK:95:HIS:HA	11:EK:96:PRO:HD3	1.81	0.44
13:EM:18:GLN:CG	13:EM:19:PRO:HD2	2.48	0.44
13:EM:81:PHE:HB2	13:EM:88:ILE:HD13	1.99	0.44
13:EM:104:SER:OG	13:EM:105:SER:N	2.50	0.44
1:FA:127:TYR:CD1	1:FA:202:THR:HG21	2.53	0.44
1:FA:223:PHE:CZ	1:FA:227:LEU:HD21	2.53	0.44
1:FA:956:ARG:HE	1:FA:979:GLY:CA	2.24	0.44
1:FA:1261:VAL:O	1:FA:1498:ILE:HB	2.17	0.44
1:FA:1332:GLU:O	1:FA:1336:GLN:HG2	2.18	0.44
2:FB:273:VAL:O	2:FB:277:LEU:HD12	2.18	0.44
2:FB:636:GLN:HG3	2:FB:637:TYR:N	2.29	0.44
2:FB:858:ILE:HG12	2:FB:872:LYS:O	2.18	0.44
2:FB:956:SER:O	9:FI:107:GLY:HA2	2.18	0.44
3:FC:134:LEU:HD12	3:FC:208:CYS:SG	2.58	0.44
3:FC:136:LEU:HD22	3:FC:167:LEU:HA	2.00	0.44
6:FF:58:PHE:HZ	7:FG:117:TRP:CH2	2.35	0.44
7:FG:89:ILE:HA	7:FG:118:CYS:SG	2.57	0.44
1:AA:16:PHE:N	1:AA:16:PHE:CD1	2.85	0.44
1:AA:127:TYR:HD1	1:AA:202:THR:HG21	1.83	0.44
1:AA:367:PHE:O	2:AB:1055:LEU:HD22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1485:MET:O	1:AA:1489:VAL:HG23	2.16	0.44
1:AA:1559:ARG:CZ	5:AE:200:ARG:HD3	2.47	0.44
2:AB:250:LEU:CD1	2:AB:378:ILE:HD13	2.48	0.44
2:AB:460:LYS:O	2:AB:463:TYR:HB3	2.18	0.44
2:AB:627:GLY:H	2:AB:642:LEU:HD22	1.82	0.44
3:AC:48:ASP:CG	3:AC:50:ARG:H	2.26	0.44
12:AL:63:ARG:HH11	12:AL:63:ARG:HG3	1.82	0.44
1:BA:510:PRO:HG2	6:BF:102:SER:OG	2.18	0.44
1:BA:589:MET:SD	1:BA:635:MET:HG3	2.58	0.44
1:BA:1028:GLU:OE1	1:BA:1638:SER:HB2	2.17	0.44
1:BA:1116:GLN:HE21	5:BE:207:ARG:HE	1.65	0.44
2:BB:161:LEU:HD12	2:BB:162:PRO:CD	2.42	0.44
3:BC:314:PHE:CD2	11:BK:135:PHE:CZ	3.06	0.44
13:BM:80:LEU:O	13:BM:88:ILE:HD12	2.18	0.44
14:BN:110:LEU:CD2	14:BN:121:ILE:HA	2.48	0.44
1:CA:422:ARG:HD3	7:CO:272:ILE:HB	1.99	0.44
1:CA:850:SER:O	1:CA:853:THR:N	2.45	0.44
1:CA:879:LEU:HD12	1:CA:972:TYR:HB3	1.99	0.44
1:CA:952:LEU:HD22	1:CA:952:LEU:HA	1.85	0.44
1:CA:1067:GLU:C	1:CA:1069:CYS:H	2.26	0.44
1:CA:1092:GLU:O	1:CA:1095:LEU:N	2.50	0.44
1:CA:1182:GLY:O	1:CA:1183:GLU:C	2.61	0.44
1:CA:1597:ALA:O	1:CA:1602:GLY:HA3	2.17	0.44
1:CA:1660:VAL:HA	1:CA:1661:PRO:HD3	1.87	0.44
2:CB:47:GLY:HA2	2:CB:50:ASN:HD22	1.82	0.44
2:CB:359:LEU:HD22	2:CB:361:HIS:CE1	2.53	0.44
2:CB:848:ILE:H	2:CB:848:ILE:HG12	1.56	0.44
2:CB:891:GLU:O	2:CB:892:SER:C	2.61	0.44
2:CB:954:PHE:N	2:CB:955:PRO:HD2	2.32	0.44
2:CB:996:PHE:HA	2:CB:999:GLN:HG3	2.00	0.44
3:CC:230:LEU:HD11	3:CC:270:ALA:HB3	1.99	0.44
3:CC:285:PHE:C	3:CC:287:ASP:H	2.26	0.44
7:CG:105:ILE:HG23	7:CG:115:PHE:O	2.18	0.44
8:CH:25:ARG:NH2	8:CH:39:THR:HG21	2.32	0.44
9:CI:111:PHE:HA	9:CI:121:PHE:O	2.18	0.44
11:CK:80:ILE:HD13	11:CK:105:ILE:HD11	1.99	0.44
1:DA:11:ILE:CG2	2:DB:1198:TYR:HB2	2.45	0.44
1:DA:856:GLU:H	1:DA:856:GLU:HG3	1.67	0.44
1:DA:1440:ASN:O	1:DA:1444:ARG:HB3	2.18	0.44
2:DB:210:ARG:NH2	2:DB:625:GLU:OE1	2.51	0.44
2:DB:378:ILE:O	2:DB:381:LEU:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:840:LEU:HD12	2:DB:857:PRO:HB2	1.98	0.44
2:DB:942:GLY:C	2:DB:943:ILE:HD12	2.43	0.44
3:DC:53:ASN:ND2	3:DC:300:PHE:O	2.51	0.44
5:DE:127:ILE:HD11	5:DE:132:ILE:CD1	2.47	0.44
6:DF:65:ARG:HB3	6:DF:65:ARG:NH1	2.32	0.44
9:DI:121:PHE:HD1	9:DI:121:PHE:H	1.64	0.44
1:EA:475:ARG:HB3	1:EA:475:ARG:HH11	1.83	0.44
1:EA:491:GLU:OE2	1:EA:808:LYS:HE3	2.17	0.44
1:EA:697:TYR:CE1	1:EA:702:PRO:HD3	2.49	0.44
1:EA:821:ILE:HD13	2:EB:777:SER:HB2	1.98	0.44
1:EA:960:MET:O	1:EA:963:GLY:N	2.46	0.44
1:EA:1040:ASP:CG	1:EA:1041:ALA:H	2.25	0.44
1:EA:1237:GLN:HB3	1:EA:1520:VAL:CG1	2.48	0.44
1:EA:1324:LEU:HD22	1:EA:1492:ILE:HG23	1.99	0.44
1:EA:1538:VAL:HA	1:EA:1541:ILE:HD11	2.00	0.44
2:EB:463:TYR:HE1	2:EB:467:THR:HG21	1.83	0.44
2:EB:768:GLY:C	2:EB:769:PHE:CD2	2.96	0.44
2:EB:785:ASP:HB3	2:EB:957:ARG:HH22	1.83	0.44
2:EB:893:ASN:HD22	2:EB:893:ASN:C	2.26	0.44
2:EB:902:SER:O	2:EB:903:ILE:HG23	2.18	0.44
2:EB:1047:ARG:NH1	2:EB:1050:GLY:H	2.16	0.44
2:EB:1180:PHE:O	2:EB:1182:LEU:N	2.51	0.44
3:EC:54:PHE:CD1	3:EC:54:PHE:N	2.86	0.44
3:EC:209:ILE:H	3:EC:209:ILE:HD13	1.83	0.44
3:EC:222:VAL:C	3:EC:224:THR:H	2.26	0.44
9:EI:94:MET:HE1	9:EI:121:PHE:HE1	1.83	0.44
13:EM:59:ARG:HD2	13:EM:60:LEU:HD21	2.00	0.44
7:EO:293:LYS:C	7:EO:295:LEU:H	2.24	0.44
1:FA:384:GLN:O	1:FA:387:SER:OG	2.33	0.44
1:FA:425:ASN:OD1	7:FO:273:VAL:N	2.51	0.44
1:FA:670:ILE:O	1:FA:673:HIS:HB2	2.18	0.44
1:FA:1058:THR:C	1:FA:1060:GLU:N	2.75	0.44
1:FA:1226:VAL:HG22	1:FA:1598:PHE:CE1	2.53	0.44
2:FB:274:VAL:HG11	2:FB:313:PHE:HB2	1.99	0.44
2:FB:757:TYR:CE2	2:FB:762:MET:HB3	2.52	0.44
2:FB:783:MET:O	2:FB:784:ASP:C	2.61	0.44
2:FB:840:LEU:HD12	2:FB:857:PRO:HB2	2.00	0.44
2:FB:1044:PHE:O	2:FB:1045:GLN:HB3	2.17	0.44
3:FC:77:SER:OG	3:FC:78:VAL:N	2.51	0.44
5:FE:175:LEU:HD22	5:FE:175:LEU:HA	1.63	0.44
1:AA:81:LEU:C	1:AA:83:VAL:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:456:VAL:O	1:AA:460:LEU:HG	2.18	0.44
1:AA:718:THR:HG1	1:AA:730:GLN:CD	2.26	0.44
1:AA:1095:LEU:CD2	1:AA:1134:GLY:HA3	2.47	0.44
1:AA:1450:ILE:O	1:AA:1454:HIS:ND1	2.41	0.44
2:AB:260:PHE:CD2	2:AB:276:ILE:HG12	2.52	0.44
2:AB:699:ILE:HD13	2:AB:699:ILE:N	2.29	0.44
3:AC:131:THR:HG23	3:AC:209:ILE:HG22	1.99	0.44
4:AD:39:PHE:CD2	7:AG:123:TYR:HD2	2.35	0.44
5:AE:26:ARG:NH2	5:AE:133:GLU:OE1	2.44	0.44
13:AM:57:ASN:O	13:AM:103:LYS:NZ	2.50	0.44
1:BA:530:TRP:CZ2	1:BA:607:VAL:HG21	2.52	0.44
1:BA:644:ARG:HH21	6:BF:118:LEU:HD23	1.82	0.44
1:BA:806:ALA:O	1:BA:809:VAL:N	2.51	0.44
1:BA:1263:LEU:O	1:BA:1265:GLU:N	2.51	0.44
1:BA:1450:ILE:HG22	1:BA:1457:ILE:HG21	2.00	0.44
1:BA:1472:PHE:O	1:BA:1473:LYS:HB3	2.17	0.44
1:BA:1612:LYS:HD3	1:BA:1621:PHE:CD1	2.52	0.44
2:BB:260:PHE:C	2:BB:260:PHE:CD1	2.95	0.44
2:BB:380:LYS:HE3	2:BB:637:TYR:CB	2.47	0.44
2:BB:533:THR:OG1	2:BB:534:PRO:HD2	2.18	0.44
2:BB:744:LEU:HD12	2:BB:800:TYR:O	2.18	0.44
2:BB:1046:VAL:HG22	2:BB:1047:ARG:N	2.31	0.44
2:BB:1178:ILE:HD12	2:BB:1182:LEU:HB3	2.00	0.44
3:BC:86:PHE:O	3:BC:87:ASN:HB2	2.17	0.44
11:BK:50:LEU:O	11:BK:54:THR:HG23	2.18	0.44
1:CA:753:ASN:CG	1:CA:780:ILE:HD11	2.43	0.44
1:CA:794:VAL:HG23	1:CA:795:HIS:N	2.21	0.44
1:CA:1446:ARG:HG2	1:CA:1450:ILE:HD13	2.00	0.44
2:CB:212:ASN:OD1	2:CB:239:VAL:HG13	2.18	0.44
2:CB:609:ARG:CZ	2:CB:672:MET:HE1	2.47	0.44
2:CB:1076:ARG:O	2:CB:1080:ILE:HG13	2.17	0.44
5:CE:208:TYR:C	5:CE:208:TYR:CD1	2.94	0.44
13:CM:51:PHE:H	13:CM:66:THR:CG2	2.31	0.44
1:DA:1337:LYS:HE2	1:DA:1337:LYS:HB3	1.85	0.44
1:DA:1463:ASP:C	1:DA:1465:GLU:N	2.71	0.44
1:DA:1600:ARG:HB3	1:DA:1601:GLN:OE1	2.17	0.44
2:DB:107:PRO:HG2	2:DB:133:TYR:CZ	2.53	0.44
2:DB:349:VAL:O	2:DB:353:VAL:HG23	2.17	0.44
2:DB:372:ARG:HA	2:DB:375:LEU:HD12	2.00	0.44
2:DB:1002:LYS:O	14:DN:168:LEU:HD23	2.17	0.44
7:DG:106:LYS:O	7:DG:107:ILE:HD13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DH:57:VAL:HG13	8:DH:144:ILE:CG1	2.45	0.44
11:DK:138:LYS:O	11:DK:142:MET:HB2	2.17	0.44
1:EA:514:TYR:OH	6:EF:102:SER:HA	2.18	0.44
1:EA:674:ILE:HG22	1:EA:675:SER:N	2.32	0.44
1:EA:751:SER:OG	1:EA:752:LYS:N	2.50	0.44
2:EB:290:ASP:C	2:EB:292:ILE:N	2.76	0.44
2:EB:863:ASP:OD2	2:EB:866:LEU:HD12	2.18	0.44
2:EB:961:GLY:HA2	2:EB:964:VAL:HG23	1.99	0.44
3:EC:128:ASP:C	3:EC:130:ASN:N	2.76	0.44
8:EH:94:ASP:OD1	8:EH:94:ASP:N	2.50	0.44
14:EN:139:VAL:HB	14:EN:140:SER:H	1.33	0.44
1:FA:773:ASP:OD2	1:FA:773:ASP:N	2.51	0.44
1:FA:808:LYS:O	1:FA:811:SER:N	2.51	0.44
1:FA:1056:ASP:OD1	1:FA:1057:ILE:N	2.51	0.44
2:FB:586:VAL:HB	2:FB:593:ILE:HG22	2.00	0.44
2:FB:954:PHE:H	2:FB:955:PRO:HD2	1.83	0.44
2:FB:1115:GLN:NE2	2:FB:1124:SER:OG	2.51	0.44
2:FB:1123:ILE:HD12	2:FB:1124:SER:H	1.83	0.44
3:FC:76:PRO:HA	3:FC:211:GLY:O	2.18	0.44
3:FC:216:HIS:ND1	3:FC:218:LYS:HB3	2.32	0.44
3:FC:229:LEU:O	3:FC:231:PRO:HD3	2.18	0.44
3:FC:328:LEU:HA	3:FC:328:LEU:HD13	1.48	0.44
5:FE:143:ASN:HB3	5:FE:146:HIS:CE1	2.53	0.44
7:FG:80:VAL:HG12	7:FG:82:LEU:CD2	2.48	0.44
7:FG:105:ILE:HG23	7:FG:115:PHE:O	2.17	0.44
13:FM:10:ILE:HD12	13:FM:10:ILE:N	2.33	0.44
7:FO:267:ALA:O	7:FO:269:SER:N	2.51	0.44
1:AA:462:LYS:HD3	1:AA:469:LYS:HZ2	1.83	0.43
1:AA:491:GLU:OE1	1:AA:815:ARG:NH2	2.28	0.43
1:AA:555:LYS:O	1:AA:558:ALA:HB3	2.18	0.43
1:AA:1001:ALA:O	1:AA:1004:GLU:HB2	2.17	0.43
1:AA:1241:PRO:HG3	1:AA:1540:GLY:CA	2.48	0.43
1:AA:1617:THR:OG1	1:AA:1617:THR:O	2.31	0.43
2:AB:656:LEU:HG	2:AB:687:THR:O	2.18	0.43
2:AB:744:LEU:HD12	2:AB:745:GLN:H	1.83	0.43
2:AB:898:LEU:HD13	2:AB:898:LEU:HA	1.64	0.43
2:AB:949:ILE:HG13	2:AB:950:ASN:N	2.33	0.43
3:AC:113:LEU:HD11	3:AC:130:ASN:C	2.43	0.43
5:AE:75:MET:HE1	5:AE:155:ARG:HH22	1.82	0.43
7:AG:100:THR:C	7:AG:102:GLU:N	2.76	0.43
7:AG:162:ILE:HG13	7:AG:162:ILE:H	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:233:VAL:HG13	7:AG:245:VAL:HG13	2.00	0.43
11:AK:138:LYS:O	11:AK:142:MET:HB2	2.18	0.43
1:BA:98:LEU:HA	1:BA:324:LEU:HD21	1.99	0.43
1:BA:113:VAL:HG22	1:BA:182:LYS:CE	2.48	0.43
1:BA:756:LYS:C	1:BA:758:GLU:N	2.76	0.43
1:BA:956:ARG:HB3	1:BA:957:VAL:H	1.47	0.43
1:BA:987:TYR:C	1:BA:987:TYR:HD2	2.25	0.43
1:BA:1102:LEU:HD22	1:BA:1141:GLN:HE21	1.81	0.43
1:BA:1148:LEU:CD2	1:BA:1163:GLU:HG2	2.48	0.43
1:BA:1224:GLU:HB3	1:BA:1233:ILE:HG22	1.99	0.43
1:BA:1447:GLN:HE22	1:BA:1459:LYS:HG2	1.83	0.43
2:BB:35:PHE:O	2:BB:38:LEU:HD23	2.18	0.43
2:BB:748:GLN:HE22	10:BJ:49:MET:HA	1.84	0.43
3:BC:97:LEU:HA	3:BC:97:LEU:HD23	1.62	0.43
12:BL:61:THR:O	12:BL:63:ARG:N	2.51	0.43
1:CA:32:ILE:HG21	1:CA:49:LEU:HD23	2.00	0.43
1:CA:50:TYR:OH	1:CA:370:PRO:HG3	2.17	0.43
1:CA:718:THR:HG22	8:CH:98:TYR:O	2.18	0.43
1:CA:1085:LEU:H	1:CA:1085:LEU:HG	1.55	0.43
2:CB:99:VAL:HG11	2:CB:139:LEU:HD13	1.99	0.43
2:CB:290:ASP:C	2:CB:292:ILE:N	2.74	0.43
2:CB:565:LEU:HA	2:CB:565:LEU:HD23	1.69	0.43
2:CB:1048:SER:OG	2:CB:1049:THR:N	2.50	0.43
2:CB:1107:CYS:O	2:CB:1197:ARG:HG3	2.18	0.43
4:CD:19:PRO:HB3	7:CG:46:TYR:O	2.18	0.43
5:CE:80:VAL:HG22	5:CE:109:ILE:HB	1.99	0.43
7:CG:163:PRO:C	7:CG:165:ASP:H	2.26	0.43
9:CI:20:PRO:O	9:CI:22:ALA:N	2.51	0.43
11:CK:114:VAL:O	11:CK:117:LEU:HB3	2.18	0.43
1:DA:527:PRO:HG3	1:DA:534:THR:HA	2.00	0.43
1:DA:969:PHE:CD2	1:DA:978:ALA:HA	2.53	0.43
1:DA:1227:MET:HE2	1:DA:1227:MET:HB3	1.58	0.43
1:DA:1580:ARG:NH2	5:DE:204:THR:HG23	2.33	0.43
1:DA:1604:GLU:HA	1:DA:1612:LYS:HE2	2.00	0.43
2:DB:703:LEU:HD23	2:DB:703:LEU:HA	1.73	0.43
12:DL:33:GLU:HG3	12:DL:53:HIS:ND1	2.33	0.43
13:DM:66:THR:HG22	13:DM:96:LEU:HG	2.00	0.43
14:DN:57:LYS:HD3	14:DN:138:SER:OG	2.18	0.43
7:DO:277:LYS:HZ2	7:DO:277:LYS:HG2	1.60	0.43
1:EA:670:ILE:HD13	1:EA:670:ILE:H	1.82	0.43
1:EA:810:LEU:O	1:EA:813:LEU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1022:CYS:HA	1:EA:1615:TYR:OH	2.18	0.43
1:EA:1344:ILE:CD1	1:EA:1344:ILE:H	2.30	0.43
1:EA:1526:PHE:O	1:EA:1528:ALA:N	2.51	0.43
2:EB:360:VAL:HA	2:EB:370:LYS:NZ	2.15	0.43
2:EB:898:LEU:HD22	12:EL:46:VAL:HG22	1.99	0.43
3:EC:163:TYR:N	3:EC:166:ASP:OD2	2.47	0.43
3:EC:229:LEU:HD22	3:EC:295:ARG:HA	1.99	0.43
3:EC:242:GLU:C	3:EC:244:ALA:N	2.76	0.43
3:EC:289:VAL:HG12	3:EC:290:LYS:H	1.81	0.43
7:EG:92:ALA:O	7:EG:94:PRO:HD3	2.18	0.43
12:EL:63:ARG:HG3	12:EL:63:ARG:NH1	2.33	0.43
1:FA:38:LEU:HB2	7:FO:291:SER:HB3	2.00	0.43
1:FA:70:LYS:HE2	1:FA:71:PHE:CE1	2.53	0.43
1:FA:370:PRO:O	7:FO:310:TYR:HB3	2.18	0.43
1:FA:571:HIS:CE1	1:FA:572:THR:HG23	2.52	0.43
1:FA:934:LYS:HG3	2:FB:956:SER:HB3	2.00	0.43
2:FB:290:ASP:C	2:FB:292:ILE:N	2.76	0.43
2:FB:586:VAL:O	2:FB:593:ILE:HG22	2.18	0.43
2:FB:850:THR:O	2:FB:881:TYR:HA	2.18	0.43
2:FB:939:SER:HA	2:FB:1013:MET:SD	2.58	0.43
2:FB:970:LYS:HG2	2:FB:1000:LEU:HD21	2.00	0.43
2:FB:1094:ASN:OD1	2:FB:1094:ASN:N	2.50	0.43
3:FC:311:GLU:H	3:FC:311:GLU:CD	2.26	0.43
5:FE:28:TYR:CE2	5:FE:75:MET:HE3	2.53	0.43
5:FE:55:ARG:O	5:FE:58:MET:HB2	2.18	0.43
7:FG:31:LYS:O	7:FG:33:GLY:N	2.51	0.43
11:FK:58:GLY:C	11:FK:60:SER:N	2.68	0.43
14:FN:87:TYR:HB3	14:FN:139:VAL:CG1	2.41	0.43
1:AA:223:PHE:CZ	1:AA:227:LEU:HD21	2.54	0.43
1:AA:879:LEU:HD12	1:AA:972:TYR:HB3	2.00	0.43
1:AA:1105:ARG:HH12	1:AA:1138:GLU:CD	2.26	0.43
1:AA:1271:ILE:HG22	9:AI:48:VAL:HG12	1.99	0.43
1:AA:1493:CYS:C	1:AA:1495:LYS:H	2.26	0.43
1:AA:1623:THR:O	1:AA:1627:LEU:HG	2.19	0.43
2:AB:21:ARG:HE	2:AB:21:ARG:HB3	1.68	0.43
2:AB:203:ILE:HA	2:AB:484:TYR:O	2.18	0.43
2:AB:347:LEU:HD13	2:AB:347:LEU:HA	1.72	0.43
2:AB:714:ARG:HD3	2:AB:714:ARG:HA	1.77	0.43
2:AB:785:ASP:HB3	2:AB:957:ARG:HH22	1.83	0.43
6:AF:72:LYS:HD2	6:AF:141:GLY:C	2.43	0.43
13:AM:66:THR:HB	13:AM:71:GLN:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1240:LEU:HD11	1:BA:1529:MET:SD	2.58	0.43
1:BA:1612:LYS:HB3	1:BA:1621:PHE:CG	2.52	0.43
2:BB:286:ARG:HD2	9:BI:9:PHE:CG	2.53	0.43
3:BC:59:ILE:HG12	3:BC:60:ASP:H	1.84	0.43
7:BG:26:ASN:HA	7:BG:27:PRO:HD3	1.91	0.43
7:BG:91:ASP:OD2	7:BG:103:LYS:HG2	2.18	0.43
12:BL:63:ARG:HG2	12:BL:64:LEU:N	2.28	0.43
13:BM:23:VAL:HB	13:BM:95:VAL:HG22	1.99	0.43
1:CA:49:LEU:HD23	1:CA:49:LEU:HA	1.79	0.43
1:CA:918:LYS:O	1:CA:923:ASN:ND2	2.43	0.43
1:CA:1323:HIS:CD2	1:CA:1454:HIS:CD2	3.06	0.43
1:CA:1481:GLU:H	1:CA:1481:GLU:HG2	1.59	0.43
2:CB:416:LYS:HD2	2:CB:460:LYS:HD2	1.99	0.43
2:CB:707:SER:HB2	2:CB:715:ASN:OD1	2.18	0.43
2:CB:902:SER:O	2:CB:903:ILE:HG23	2.18	0.43
3:CC:67:PHE:CE1	3:CC:318:VAL:HG22	2.53	0.43
4:CD:21:VAL:O	4:CD:22:ILE:HD13	2.18	0.43
5:CE:170:LEU:HD13	5:CE:175:LEU:HD23	1.99	0.43
7:CG:80:VAL:O	7:CG:124:VAL:HG13	2.18	0.43
10:CJ:60:PHE:O	10:CJ:63:TYR:N	2.48	0.43
1:DA:15:ASP:OD1	1:DA:1631:ARG:HA	2.18	0.43
1:DA:81:LEU:C	1:DA:83:VAL:H	2.26	0.43
1:DA:113:VAL:HG22	1:DA:182:LYS:NZ	2.33	0.43
1:DA:247:GLY:O	1:DA:442:LYS:HG2	2.18	0.43
1:DA:521:GLN:O	1:DA:524:ILE:HB	2.18	0.43
1:DA:706:HIS:NE2	1:DA:739:VAL:O	2.49	0.43
1:DA:719:ILE:HG22	1:DA:725:LEU:HB2	2.00	0.43
1:DA:831:ASP:O	1:DA:918:LYS:HB2	2.17	0.43
1:DA:966:LEU:HG	1:DA:968:SER:N	2.26	0.43
1:DA:1490:GLU:O	1:DA:1493:CYS:HB2	2.19	0.43
2:DB:393:ASN:HD21	2:DB:395:ASP:HB2	1.81	0.43
2:DB:609:ARG:CZ	2:DB:672:MET:HE1	2.48	0.43
2:DB:666:PRO:O	2:DB:670:VAL:HG22	2.18	0.43
3:DC:172:GLN:H	3:DC:175:GLN:CD	2.26	0.43
5:DE:170:LEU:HD13	5:DE:175:LEU:HD23	2.00	0.43
7:DG:40:ARG:HD3	7:DG:123:TYR:HE1	1.83	0.43
7:DG:144:HIS:HA	7:DG:157:ILE:O	2.18	0.43
7:DG:235:ASN:HB3	7:DG:246:ASP:HB3	2.00	0.43
8:DH:56:THR:O	8:DH:144:ILE:HG23	2.18	0.43
11:DK:77:ARG:HG3	11:DK:78:TYR:N	2.32	0.43
1:EA:36:THR:HA	7:EO:288:ASN:OD1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:492:THR:HG23	1:EA:811:SER:OG	2.18	0.43
1:EA:498:PRO:HA	1:EA:499:PRO:HD3	1.66	0.43
1:EA:956:ARG:NE	1:EA:979:GLY:HA3	2.24	0.43
1:EA:960:MET:HE1	1:EA:967:PRO:HD3	2.01	0.43
1:EA:1159:ASP:O	1:EA:1161:VAL:N	2.51	0.43
1:EA:1344:ILE:HG22	2:EB:334:PHE:HE2	1.84	0.43
1:EA:1589:MET:HE2	1:EA:1598:PHE:CE1	2.54	0.43
2:EB:52:LEU:HD22	2:EB:61:LEU:CD2	2.48	0.43
2:EB:477:ASP:O	2:EB:478:LEU:HG	2.18	0.43
2:EB:975:HIS:HE1	14:EN:167:LYS:O	2.01	0.43
3:EC:209:ILE:HG12	3:EC:210:LEU:O	2.18	0.43
5:EE:64:PRO:HB3	5:EE:68:SER:CB	2.48	0.43
7:EG:218:VAL:HA	7:EG:224:PRO:HA	1.99	0.43
1:FA:668:GLY:HA3	1:FA:787:GLY:C	2.43	0.43
1:FA:1028:GLU:CD	1:FA:1637:PRO:HB2	2.42	0.43
1:FA:1062:HIS:CD2	1:FA:1068:PHE:CD1	3.06	0.43
1:FA:1241:PRO:HG3	1:FA:1540:GLY:CA	2.48	0.43
2:FB:134:ARG:HB2	2:FB:161:LEU:C	2.44	0.43
2:FB:362:LEU:HD23	2:FB:362:LEU:HA	1.75	0.43
2:FB:470:LEU:HD22	2:FB:484:TYR:HE1	1.83	0.43
2:FB:744:LEU:HD12	2:FB:745:GLN:N	2.33	0.43
2:FB:987:ASN:O	2:FB:989:ASP:N	2.51	0.43
2:FB:1130:ARG:NH2	2:FB:1195:ARG:HD2	2.33	0.43
2:FB:1180:PHE:O	2:FB:1182:LEU:N	2.51	0.43
5:FE:79:TRP:CD1	5:FE:79:TRP:C	2.96	0.43
14:FN:40:LEU:HD12	14:FN:41:ASN:N	2.26	0.43
1:AA:553:GLN:NE2	2:BB:834:LYS:HB2	2.34	0.43
1:AA:865:ASP:CG	1:AA:866:LYS:N	2.76	0.43
1:AA:974:THR:O	1:AA:974:THR:OG1	2.21	0.43
1:AA:1237:GLN:H	1:AA:1544:ASN:CB	2.27	0.43
1:AA:1657:LEU:HA	7:AG:107:ILE:HG12	1.99	0.43
2:AB:210:ARG:NH2	2:AB:625:GLU:OE1	2.52	0.43
3:AC:103:LEU:O	10:AJ:6:ARG:NE	2.51	0.43
3:AC:135:SER:O	3:AC:168:LYS:HG3	2.18	0.43
5:AE:177:ARG:CZ	5:AE:179:GLN:HE22	2.32	0.43
9:AI:101:LEU:CD1	9:AI:122:ARG:HH22	2.32	0.43
10:AJ:33:GLY:O	10:AJ:47:ARG:NH2	2.51	0.43
13:AM:18:GLN:HB3	14:AN:36:LYS:HE3	2.00	0.43
7:AO:311:GLU:O	7:AO:312:GLU:HB2	2.17	0.43
1:BA:720:PHE:CZ	8:BH:141:TYR:HE2	2.35	0.43
1:BA:839:GLY:O	1:BA:842:TRP:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1001:ALA:O	1:BA:1004:GLU:HB2	2.18	0.43
1:BA:1493:CYS:C	1:BA:1495:LYS:H	2.27	0.43
2:BB:426:ALA:O	2:BB:429:ARG:HB3	2.18	0.43
2:BB:1136:GLU:H	2:BB:1136:GLU:HG3	1.35	0.43
5:BE:112:TYR:CE1	5:BE:136:ASN:HB2	2.52	0.43
6:BF:118:LEU:HD13	6:BF:118:LEU:HA	1.82	0.43
6:BF:153:VAL:O	6:BF:154:ASP:HB2	2.18	0.43
11:BK:95:HIS:HA	11:BK:96:PRO:HD3	1.81	0.43
14:BN:72:VAL:O	14:BN:73:ASP:C	2.62	0.43
7:BO:283:GLU:HA	7:BO:286:ILE:HD12	2.01	0.43
1:CA:483:VAL:N	1:CA:632:GLU:HG2	2.33	0.43
1:CA:706:HIS:HB2	1:CA:808:LYS:HZ3	1.83	0.43
1:CA:1601:GLN:C	1:CA:1603:MET:N	2.72	0.43
2:CB:463:TYR:C	2:CB:463:TYR:CD1	2.96	0.43
2:CB:611:TRP:C	2:CB:620:LEU:HD21	2.42	0.43
2:CB:962:MET:O	2:CB:963:PHE:C	2.62	0.43
2:CB:1011:GLU:C	2:CB:1025:ASP:HB3	2.43	0.43
12:CL:53:HIS:C	12:CL:55:ILE:H	2.17	0.43
1:DA:3:ILE:HA	7:DG:111:THR:HG22	2.00	0.43
1:DA:1058:THR:C	1:DA:1060:GLU:N	2.67	0.43
1:DA:1060:GLU:O	1:DA:1061:SER:C	2.60	0.43
1:DA:1243:TRP:HA	1:DA:1243:TRP:CE3	2.53	0.43
1:DA:1246:VAL:HG22	1:DA:1250:GLN:NE2	2.33	0.43
2:DB:194:PHE:O	2:DB:200:GLU:HA	2.18	0.43
2:DB:347:LEU:HD13	2:DB:347:LEU:HA	1.75	0.43
2:DB:389:CYS:HB2	2:DB:635:GLY:O	2.18	0.43
2:DB:611:TRP:C	2:DB:620:LEU:HD21	2.43	0.43
2:DB:653:VAL:C	2:DB:691:PHE:HE2	2.26	0.43
3:DC:83:VAL:N	12:DL:67:PHE:O	2.41	0.43
3:DC:195:LYS:HB2	10:DJ:57:ILE:CD1	2.48	0.43
7:DG:53:TYR:HB3	7:DG:56:ASN:O	2.18	0.43
7:DG:131:ASP:O	7:DG:233:VAL:HG23	2.18	0.43
1:EA:399:LEU:HD13	7:EO:271:PRO:HG2	2.00	0.43
1:EA:1441:LYS:HA	1:EA:1444:ARG:HD2	2.00	0.43
1:EA:1501:ILE:O	1:EA:1502:PRO:C	2.60	0.43
1:EA:1546:VAL:HG21	1:EA:1595:TYR:CE2	2.54	0.43
1:EA:1557:ALA:O	1:EA:1558:ALA:C	2.62	0.43
2:EB:548:LYS:HA	2:EB:550:ARG:NH2	2.34	0.43
2:EB:778:TYR:CE2	2:EB:937:PRO:HD3	2.54	0.43
2:EB:909:ARG:O	2:EB:1035:ARG:NH2	2.42	0.43
3:EC:67:PHE:HE1	3:EC:318:VAL:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:97:LEU:HD23	3:EC:97:LEU:HA	1.57	0.43
3:EC:147:PRO:HG2	3:EC:150:SER:HB2	1.99	0.43
3:EC:181:ASP:O	3:EC:183:PRO:HD3	2.19	0.43
5:EE:178:ILE:HD11	5:EE:182:ASP:HB3	2.00	0.43
11:EK:83:ASN:HA	11:EK:84:PRO:HD2	1.84	0.43
13:EM:66:THR:HB	13:EM:71:GLN:HG3	2.00	0.43
7:EO:286:ILE:HG22	7:EO:287:GLU:N	2.33	0.43
1:FA:674:ILE:CG2	1:FA:931:SER:HB2	2.48	0.43
1:FA:830:MET:HE3	2:FB:967:LEU:HD11	2.01	0.43
1:FA:1584:LEU:HD13	1:FA:1584:LEU:HA	1.89	0.43
2:FB:98:SER:O	2:FB:141:LEU:HD12	2.18	0.43
2:FB:213:HIS:C	2:FB:236:ILE:HD12	2.44	0.43
2:FB:350:GLY:O	2:FB:353:VAL:HB	2.18	0.43
2:FB:459:SER:O	2:FB:462:GLN:N	2.51	0.43
2:FB:565:LEU:HD23	2:FB:565:LEU:HA	1.72	0.43
2:FB:622:ILE:H	2:FB:622:ILE:HD12	1.83	0.43
2:FB:904:LYS:C	2:FB:905:TYR:CD1	2.92	0.43
3:FC:133:VAL:C	3:FC:134:LEU:HG	2.43	0.43
8:FH:118:PHE:CD2	8:FH:118:PHE:N	2.86	0.43
11:FK:118:GLN:O	11:FK:119:LYS:C	2.61	0.43
14:FN:54:TRP:CZ2	14:FN:135:LYS:HD2	2.53	0.43
1:AA:477:ASN:OD1	2:AB:1049:THR:HG23	2.17	0.43
1:AA:1078:LYS:HD2	1:AA:1078:LYS:HA	1.75	0.43
2:AB:302:LEU:HD11	2:AB:379:ARG:NH1	2.33	0.43
2:AB:906:ARG:NE	3:AC:95:GLU:OE2	2.47	0.43
2:AB:931:TRP:HA	2:AB:932:PRO:HD3	1.82	0.43
2:AB:1110:ILE:HD13	2:AB:1111:LEU:CD2	2.49	0.43
5:AE:82:PHE:CZ	5:AE:111:VAL:HG21	2.54	0.43
6:AF:136:ARG:O	6:AF:143:PHE:HB2	2.18	0.43
1:BA:363:PRO:HB3	2:BB:1187:SER:OG	2.19	0.43
1:BA:759:TYR:HB3	1:BA:920:PHE:CD2	2.53	0.43
1:BA:952:LEU:HD21	1:BA:1000:MET:O	2.18	0.43
1:BA:1238:MET:HG3	1:BA:1524:VAL:HG22	2.00	0.43
2:BB:210:ARG:NH2	2:BB:625:GLU:CD	2.76	0.43
2:BB:526:GLY:CA	2:BB:696:ILE:HG22	2.48	0.43
2:BB:774:ALA:HA	2:BB:1028:VAL:HG12	2.00	0.43
2:BB:944:GLN:HA	2:BB:945:PRO:HD3	1.75	0.43
2:BB:949:ILE:HG13	2:BB:950:ASN:N	2.33	0.43
2:BB:1117:VAL:HG21	2:BB:1162:GLY:N	2.34	0.43
2:BB:1119:ARG:HD2	2:BB:1119:ARG:HA	1.57	0.43
8:BH:101:ALA:HB2	8:BH:116:TYR:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:3:VAL:HG12	10:BJ:15:GLY:HA2	2.00	0.43
7:BO:304:ASN:HB2	7:BO:306:SER:HB3	2.00	0.43
1:CA:247:GLY:O	1:CA:442:LYS:HG2	2.19	0.43
1:CA:385:LEU:O	1:CA:389:VAL:HG23	2.18	0.43
1:CA:756:LYS:HE3	1:CA:759:TYR:HE2	1.83	0.43
1:CA:1022:CYS:SG	1:CA:1615:TYR:OH	2.76	0.43
1:CA:1184:ALA:O	1:CA:1186:GLY:N	2.51	0.43
1:CA:1546:VAL:O	1:CA:1549:VAL:N	2.51	0.43
2:CB:526:GLY:N	2:CB:696:ILE:HG22	2.33	0.43
2:CB:636:GLN:HG3	2:CB:637:TYR:N	2.32	0.43
2:CB:772:VAL:HB	2:CB:946:ASP:OD2	2.19	0.43
2:CB:825:PHE:CE2	2:CB:899:GLN:HA	2.52	0.43
3:CC:42:VAL:HG22	3:CC:56:LEU:HD22	2.00	0.43
3:CC:96:VAL:O	3:CC:97:LEU:C	2.61	0.43
3:CC:172:GLN:H	3:CC:175:GLN:CD	2.27	0.43
7:CG:86:GLY:C	7:CG:120:VAL:HG23	2.43	0.43
7:CG:166:TRP:CE2	7:CG:219:ASP:HB2	2.54	0.43
8:CH:9:ILE:HD13	8:CH:56:THR:HG23	1.99	0.43
8:CH:62:SER:HA	8:CH:141:TYR:CD1	2.53	0.43
13:CM:51:PHE:H	13:CM:66:THR:HG23	1.82	0.43
1:DA:399:LEU:CD1	7:DO:271:PRO:HG2	2.48	0.43
1:DA:547:ILE:C	1:DA:549:MET:H	2.26	0.43
1:DA:1603:MET:HE1	1:DA:1612:LYS:HA	2.01	0.43
1:DA:1623:THR:HA	1:DA:1626:VAL:HG22	1.99	0.43
2:DB:36:PRO:O	2:DB:39:GLN:HG3	2.18	0.43
2:DB:108:MET:HE3	2:DB:118:GLU:HB3	2.00	0.43
3:DC:328:LEU:HA	3:DC:328:LEU:HD13	1.59	0.43
6:DF:138:LEU:HB3	6:DF:140:ASP:OD1	2.19	0.43
1:EA:650:LEU:HD23	1:EA:650:LEU:O	2.18	0.43
1:EA:1001:ALA:O	1:EA:1004:GLU:HB2	2.17	0.43
1:EA:1006:LEU:HD22	9:EI:103:SER:HA	2.00	0.43
1:EA:1051:GLY:O	5:EE:204:THR:HB	2.18	0.43
1:EA:1337:LYS:HE2	1:EA:1337:LYS:HB3	1.78	0.43
2:EB:345:SER:HA	13:EM:113:ILE:CG1	2.47	0.43
2:EB:656:LEU:HG	2:EB:687:THR:O	2.18	0.43
2:EB:1013:MET:O	2:EB:1022:LEU:HG	2.18	0.43
13:EM:65:TYR:O	13:EM:97:VAL:N	2.47	0.43
13:EM:82:ASN:HA	13:EM:83:PRO:HD2	1.86	0.43
14:EN:145:ILE:H	14:EN:145:ILE:HG13	1.65	0.43
1:FA:499:PRO:HG3	1:FA:609:PRO:HA	2.00	0.43
1:FA:1085:LEU:H	1:FA:1085:LEU:HG	1.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1597:ALA:O	1:FA:1602:GLY:HA3	2.18	0.43
2:FB:547:HIS:HB2	2:FB:760:TYR:HH	1.83	0.43
2:FB:954:PHE:N	2:FB:955:PRO:HD2	2.34	0.43
3:FC:83:VAL:HG12	3:FC:204:LEU:HD12	2.00	0.43
3:FC:134:LEU:HD23	3:FC:169:PHE:HD1	1.84	0.43
7:FG:60:GLY:O	7:FG:64:GLN:HB2	2.17	0.43
7:FG:144:HIS:HA	7:FG:157:ILE:O	2.18	0.43
8:FH:46:LEU:HD23	8:FH:46:LEU:HA	1.83	0.43
7:FO:297:LEU:HD13	7:FO:310:TYR:CD2	2.50	0.43
1:AA:62:CYS:SG	1:AA:64:THR:N	2.88	0.43
1:AA:122:LEU:O	1:AA:126:GLN:HG3	2.18	0.43
1:AA:132:GLU:OE2	1:AA:201:ARG:NH2	2.50	0.43
1:AA:213:ASN:ND2	1:AA:1606:SER:O	2.52	0.43
1:AA:406:LEU:HB3	7:AO:266:GLN:HB2	1.99	0.43
1:AA:492:THR:HG23	1:AA:811:SER:OG	2.17	0.43
1:AA:821:ILE:CD1	2:AB:777:SER:HB2	2.48	0.43
1:AA:1007:ILE:O	1:AA:1011:VAL:HB	2.17	0.43
1:AA:1321:PHE:CD2	1:AA:1321:PHE:C	2.95	0.43
2:AB:338:PHE:CZ	2:AB:353:VAL:HG13	2.53	0.43
2:AB:523:GLU:H	2:AB:523:GLU:HG2	1.45	0.43
2:AB:994:ASP:OD1	2:AB:994:ASP:N	2.51	0.43
5:AE:152:LYS:C	5:AE:153:HIS:HD1	2.27	0.43
6:AF:79:ARG:HB3	6:AF:146:TRP:CZ2	2.53	0.43
6:AF:118:LEU:HD13	6:AF:118:LEU:HA	1.78	0.43
8:AH:102:TYR:HE2	8:AH:116:TYR:C	2.25	0.43
13:AM:102:SER:O	13:AM:106:LYS:HB2	2.19	0.43
1:BA:34:ASN:HA	1:BA:35:PRO:HD3	1.88	0.43
1:BA:677:GLY:O	1:BA:681:THR:HG23	2.19	0.43
1:BA:772:LYS:HE3	1:BA:772:LYS:HB3	1.90	0.43
1:BA:1456:PHE:HB3	1:BA:1474:LEU:CD1	2.41	0.43
1:BA:1481:GLU:H	1:BA:1481:GLU:HG2	1.45	0.43
1:BA:1546:VAL:HG21	1:BA:1595:TYR:CE2	2.53	0.43
2:BB:250:LEU:CD1	2:BB:378:ILE:HD13	2.47	0.43
2:BB:376:PHE:CD2	2:BB:376:PHE:C	2.96	0.43
2:BB:772:VAL:HB	2:BB:946:ASP:OD2	2.18	0.43
2:BB:917:PHE:CD2	2:BB:1035:ARG:HA	2.53	0.43
2:BB:1111:LEU:HD23	2:BB:1111:LEU:H	1.83	0.43
5:BE:154:ILE:HB	5:BE:197:LYS:HB3	2.00	0.43
7:BG:43:ILE:HD12	7:BG:43:ILE:C	2.44	0.43
10:BJ:48:ARG:HB3	10:BJ:48:ARG:HH11	1.82	0.43
13:BM:16:GLN:CG	13:BM:17:ASP:H	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:54:TRP:CZ2	14:BN:135:LYS:HD2	2.53	0.43
14:BN:55:LEU:O	14:BN:136:VAL:HA	2.19	0.43
1:CA:585:ASP:OD1	1:CA:644:ARG:NH1	2.50	0.43
1:CA:1057:ILE:H	1:CA:1057:ILE:HD12	1.84	0.43
1:CA:1314:GLN:O	1:CA:1318:SER:HB3	2.17	0.43
2:CB:417:ILE:O	2:CB:420:TYR:HB3	2.18	0.43
2:CB:800:TYR:CE1	2:CB:910:THR:HG23	2.53	0.43
2:CB:872:LYS:HD3	2:CB:872:LYS:HA	1.58	0.43
2:CB:1046:VAL:HG22	2:CB:1047:ARG:N	2.33	0.43
2:CB:1057:MET:HB2	2:CB:1097:ASP:HB2	1.99	0.43
3:CC:199:GLY:HA3	10:CJ:66:LEU:HD13	2.00	0.43
6:CF:128:LYS:NZ	6:CF:149:GLU:HA	2.34	0.43
10:CJ:37:SER:C	10:CJ:39:LEU:H	2.27	0.43
13:CM:18:GLN:CG	13:CM:19:PRO:HD2	2.49	0.43
1:DA:507:TYR:HB3	1:DA:579:ARG:NH1	2.33	0.43
1:DA:671:GLN:HB2	2:DB:783:MET:HG2	2.00	0.43
1:DA:1264:SER:HB3	9:DI:56:PHE:HD1	1.84	0.43
2:DB:264:TRP:CD1	2:DB:264:TRP:C	2.94	0.43
9:DI:11:LEU:HB3	13:DM:29:GLY:O	2.19	0.43
10:DJ:45:CYS:O	10:DJ:49:MET:HG2	2.18	0.43
10:DJ:48:ARG:HB3	10:DJ:48:ARG:HH11	1.84	0.43
1:EA:77:GLY:O	1:EA:78:HIS:HB3	2.18	0.43
1:EA:136:LEU:HD13	1:EA:189:VAL:HG23	2.00	0.43
1:EA:515:ASN:ND2	1:EA:519:LEU:HD11	2.33	0.43
1:EA:717:PRO:HB3	1:EA:726:TRP:CZ2	2.53	0.43
1:EA:996:TYR:HE2	1:EA:1000:MET:HE2	1.82	0.43
1:EA:1112:PRO:HB2	1:EA:1114:TYR:CE1	2.54	0.43
1:EA:1612:LYS:HB3	1:EA:1621:PHE:CG	2.53	0.43
2:EB:140:LYS:HE2	2:EB:153:PHE:HD2	1.83	0.43
2:EB:636:GLN:HG3	2:EB:637:TYR:N	2.30	0.43
2:EB:840:LEU:HD23	2:EB:845:LEU:C	2.43	0.43
7:EG:57:PRO:O	7:EG:58:LEU:C	2.61	0.43
11:EK:75:ALA:O	11:EK:79:VAL:HG23	2.19	0.43
1:FA:472:MET:HE1	1:FA:1638:SER:OG	2.18	0.43
1:FA:1609:SER:HA	1:FA:1612:LYS:HD2	2.00	0.43
2:FB:75:ASP:CG	2:FB:76:GLY:H	2.27	0.43
2:FB:250:LEU:HD23	2:FB:250:LEU:HA	1.89	0.43
2:FB:863:ASP:OD2	2:FB:866:LEU:HD12	2.19	0.43
3:FC:45:SER:HB3	3:FC:53:ASN:HB3	2.00	0.43
3:FC:142:ARG:O	3:FC:144:PRO:HD3	2.19	0.43
10:FJ:2:ILE:O	10:FJ:3:VAL:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:76:GLN:NE2	2:AB:1111:LEU:HD12	2.23	0.43
1:AA:472:MET:HE1	1:AA:1638:SER:OG	2.19	0.43
1:AA:1582:LEU:N	1:AA:1582:LEU:HD23	2.33	0.43
2:AB:547:HIS:O	2:AB:550:ARG:NH1	2.37	0.43
2:AB:703:LEU:HD23	2:AB:703:LEU:HA	1.88	0.43
2:AB:840:LEU:HD12	2:AB:857:PRO:HB2	1.99	0.43
5:AE:175:LEU:HD22	5:AE:175:LEU:HA	1.61	0.43
6:AF:98:ALA:HB2	6:AF:118:LEU:HD13	1.99	0.43
12:AL:63:ARG:HG3	12:AL:63:ARG:NH1	2.32	0.43
1:BA:113:VAL:HG22	1:BA:182:LYS:HZ1	1.83	0.43
2:BB:290:ASP:C	2:BB:292:ILE:N	2.77	0.43
2:BB:850:THR:N	2:BB:882:ILE:HG13	2.22	0.43
2:BB:878:GLU:OE2	2:BB:907:ILE:HG23	2.19	0.43
7:BG:58:LEU:HD23	7:BG:58:LEU:HA	1.59	0.43
7:BG:80:VAL:O	7:BG:124:VAL:HG13	2.19	0.43
7:BG:99:ASP:O	7:BG:100:THR:C	2.62	0.43
1:CA:1202:LEU:HD22	9:CI:99:LEU:CD2	2.46	0.43
1:CA:1247:SER:OG	1:CA:1248:ASP:N	2.50	0.43
1:CA:1261:VAL:O	1:CA:1498:ILE:HB	2.18	0.43
2:CB:205:MET:HB2	2:CB:502:MET:O	2.18	0.43
2:CB:262:PHE:O	2:CB:268:GLU:HG2	2.19	0.43
2:CB:965:GLU:HB3	2:CB:1031:VAL:HG22	2.00	0.43
9:CI:57:PRO:HA	9:CI:61:ARG:HG2	2.01	0.43
13:CM:16:GLN:HB3	13:CM:92:LYS:H	1.83	0.43
13:CM:81:PHE:CD1	13:CM:88:ILE:HB	2.51	0.43
1:DA:88:PRO:HB3	1:DA:435:ASN:OD1	2.19	0.43
1:DA:831:ASP:OD1	1:DA:831:ASP:N	2.43	0.43
1:DA:903:ILE:O	1:DA:907:VAL:HG23	2.18	0.43
1:DA:1323:HIS:CD2	1:DA:1454:HIS:CD2	3.05	0.43
1:DA:1612:LYS:O	1:DA:1615:TYR:N	2.46	0.43
2:DB:206:LEU:HD23	2:DB:206:LEU:HA	1.89	0.43
2:DB:306:LEU:HD23	2:DB:310:LEU:HG	1.99	0.43
2:DB:903:ILE:HD13	2:DB:905:TYR:HE1	1.83	0.43
3:DC:64:ALA:O	3:DC:67:PHE:HB2	2.19	0.43
3:DC:97:LEU:HD23	3:DC:97:LEU:HA	1.57	0.43
3:DC:209:ILE:HD13	3:DC:209:ILE:H	1.83	0.43
3:DC:269:ASP:OD1	3:DC:272:LYS:HE3	2.18	0.43
7:DG:163:PRO:HG2	7:DG:166:TRP:CD1	2.54	0.43
8:DH:88:SER:OG	8:DH:89:LEU:N	2.51	0.43
7:DO:290:GLU:C	7:DO:290:GLU:OE1	2.62	0.43
1:EA:10:GLU:OE2	2:EB:1176:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:668:GLY:HA3	1:EA:787:GLY:C	2.44	0.43
1:EA:756:LYS:HG2	9:EI:85:LYS:CE	2.48	0.43
1:EA:780:ILE:H	1:EA:780:ILE:HG13	1.67	0.43
1:EA:966:LEU:HD12	1:EA:967:PRO:CD	2.46	0.43
1:EA:1028:GLU:OE1	1:EA:1638:SER:N	2.46	0.43
1:EA:1039:ARG:NH2	5:EE:168:TYR:O	2.51	0.43
1:EA:1094:ALA:HB1	1:EA:1135:SER:HB2	2.01	0.43
1:EA:1151:ASN:C	1:EA:1153:LYS:H	2.26	0.43
1:EA:1193:VAL:C	1:EA:1196:PRO:HD2	2.44	0.43
1:EA:1613:MET:HA	1:EA:1618:THR:HA	2.01	0.43
2:EB:501:ARG:HG3	2:EB:699:ILE:CD1	2.48	0.43
2:EB:532:HIS:CE1	2:EB:544:HIS:CE1	3.07	0.43
2:EB:555:GLN:NE2	2:EB:644:GLY:O	2.52	0.43
2:EB:1002:LYS:NZ	14:EN:166:LEU:HD13	2.33	0.43
2:EB:1011:GLU:C	2:EB:1025:ASP:HB3	2.44	0.43
3:EC:77:SER:OG	3:EC:78:VAL:N	2.44	0.43
6:EF:98:ALA:HB2	6:EF:118:LEU:HD13	2.01	0.43
11:EK:114:VAL:O	11:EK:117:LEU:HB3	2.19	0.43
13:EM:76:TYR:CE1	14:EN:57:LYS:HG3	2.53	0.43
7:EO:272:ILE:HD13	7:EO:275:ASN:N	2.26	0.43
1:FA:62:CYS:HB2	1:FA:72:CYS:SG	2.59	0.43
1:FA:87:ASN:HA	1:FA:88:PRO:HD2	1.86	0.43
1:FA:864:LEU:HD12	1:FA:875:LEU:HD13	2.00	0.43
1:FA:956:ARG:NE	1:FA:979:GLY:HA3	2.27	0.43
1:FA:1229:ALA:HB1	1:FA:1595:TYR:CD2	2.53	0.43
1:FA:1261:VAL:HA	1:FA:1265:GLU:OE2	2.18	0.43
1:FA:1440:ASN:C	1:FA:1442:VAL:H	2.26	0.43
1:FA:1450:ILE:HG22	1:FA:1457:ILE:HG21	2.00	0.43
2:FB:796:ARG:HD2	10:FJ:7:CYS:O	2.18	0.43
2:FB:800:TYR:CE1	2:FB:910:THR:HG23	2.54	0.43
2:FB:821:ILE:HD11	2:FB:899:GLN:OE1	2.18	0.43
2:FB:931:TRP:HA	2:FB:932:PRO:HD3	1.84	0.43
3:FC:201:GLU:C	3:FC:202:ILE:HD12	2.43	0.43
5:FE:82:PHE:CZ	5:FE:111:VAL:HG21	2.54	0.43
5:FE:139:ALA:C	5:FE:141:VAL:N	2.76	0.43
6:FF:119:ARG:HA	6:FF:122:MET:HG3	2.01	0.43
9:FI:94:MET:SD	9:FI:121:PHE:HE1	2.41	0.43
10:FJ:18:TRP:CD2	10:FJ:22:LEU:HD21	2.54	0.43
11:FK:52:GLN:OE1	11:FK:52:GLN:N	2.37	0.43
1:AA:476:VAL:HG21	2:AB:1091:ARG:HE	1.83	0.43
1:AA:476:VAL:HG11	2:AB:1091:ARG:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:907:VAL:HG12	1:AA:945:CYS:SG	2.59	0.43
1:AA:934:LYS:HG3	2:AB:956:SER:HB3	2.00	0.43
1:AA:1011:VAL:HG21	2:AB:518:ARG:CD	2.49	0.43
1:AA:1202:LEU:HD11	9:AI:101:LEU:HD21	2.01	0.43
1:AA:1325:LEU:HD22	1:AA:1492:ILE:HG21	2.00	0.43
2:AB:68:ILE:HD13	2:AB:68:ILE:HA	1.70	0.43
2:AB:203:ILE:H	2:AB:203:ILE:HD12	1.84	0.43
2:AB:964:VAL:C	2:AB:966:SER:N	2.77	0.43
2:AB:964:VAL:O	2:AB:966:SER:N	2.52	0.43
2:AB:1076:ARG:O	2:AB:1080:ILE:HG13	2.19	0.43
3:AC:86:PHE:CE2	3:AC:205:LYS:HE3	2.54	0.43
3:AC:210:LEU:H	3:AC:210:LEU:HD12	1.84	0.43
7:AG:40:ARG:HB2	7:AG:123:TYR:CE1	2.54	0.43
7:AG:106:LYS:HG3	7:AG:107:ILE:N	2.34	0.43
10:AJ:3:VAL:CG1	10:AJ:15:GLY:HA2	2.49	0.43
11:AK:115:ASP:O	11:AK:118:GLN:N	2.50	0.43
1:BA:399:LEU:HD13	7:BO:271:PRO:O	2.19	0.43
1:BA:783:LYS:HE3	1:BA:932:GLY:HA3	2.01	0.43
1:BA:918:LYS:O	1:BA:923:ASN:ND2	2.47	0.43
1:BA:1124:LEU:HD23	1:BA:1124:LEU:HA	1.76	0.43
1:BA:1196:PRO:C	1:BA:1198:THR:H	2.27	0.43
1:BA:1196:PRO:HB3	1:BA:1575:ILE:HG21	2.00	0.43
1:BA:1272:VAL:CG1	1:BA:1273:THR:H	2.28	0.43
1:BA:1490:GLU:O	1:BA:1493:CYS:HB2	2.18	0.43
2:BB:260:PHE:HD1	2:BB:260:PHE:C	2.26	0.43
2:BB:492:ASN:OD1	2:BB:494:TYR:HB2	2.19	0.43
2:BB:609:ARG:CZ	2:BB:672:MET:HE1	2.49	0.43
2:BB:897:GLU:O	2:BB:898:LEU:C	2.62	0.43
2:BB:1018:THR:HB	2:BB:1020:GLU:OE1	2.19	0.43
4:BD:88:GLN:O	4:BD:92:ILE:HG13	2.18	0.43
5:BE:139:ALA:O	5:BE:141:VAL:N	2.51	0.43
1:CA:13:SER:OG	1:CA:1631:ARG:NH1	2.51	0.43
1:CA:641:GLU:HB2	6:CF:99:LEU:CD2	2.48	0.43
1:CA:864:LEU:HD12	1:CA:875:LEU:HD13	2.01	0.43
1:CA:1262:LEU:O	1:CA:1265:GLU:HB2	2.18	0.43
1:CA:1613:MET:HA	1:CA:1618:THR:HA	2.00	0.43
2:CB:271:VAL:HB	2:CB:276:ILE:HD11	2.01	0.43
3:CC:48:ASP:CG	3:CC:50:ARG:H	2.27	0.43
5:CE:136:ASN:CG	5:CE:137:GLU:N	2.76	0.43
6:CF:97:ARG:HG2	6:CF:130:ILE:HD13	2.01	0.43
9:CI:86:CYS:HA	9:CI:87:PRO:HD3	1.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:63:ARG:HH11	12:CL:63:ARG:HG3	1.84	0.43
7:CO:272:ILE:CG2	7:CO:275:ASN:HD21	2.27	0.43
1:DA:61:LEU:HG	1:DA:67:LEU:O	2.19	0.43
1:DA:1092:GLU:O	1:DA:1093:SER:C	2.61	0.43
1:DA:1191:GLN:C	1:DA:1193:VAL:N	2.77	0.43
1:DA:1261:VAL:O	1:DA:1498:ILE:HB	2.19	0.43
2:DB:219:ARG:HA	2:DB:220:PRO:HD2	1.85	0.43
2:DB:551:ILE:CD1	2:DB:649:MET:HA	2.48	0.43
2:DB:845:LEU:HD12	12:DL:58:LYS:CE	2.48	0.43
2:DB:1104:CYS:SG	2:DB:1106:GLU:HB2	2.59	0.43
3:DC:54:PHE:CZ	3:DC:300:PHE:HB3	2.54	0.43
4:DD:19:PRO:HG3	7:DG:47:VAL:CG1	2.48	0.43
5:DE:213:ILE:HD13	5:DE:214:CYS:N	2.33	0.43
8:DH:46:LEU:HD23	8:DH:46:LEU:HA	1.80	0.43
8:DH:97:MET:N	8:DH:142:LEU:O	2.48	0.43
1:EA:718:THR:OG1	1:EA:730:GLN:OE1	2.36	0.43
2:EB:169:ARG:HD3	2:EB:169:ARG:HA	1.77	0.43
2:EB:373:MET:HE1	2:EB:587:GLN:NE2	2.34	0.43
2:EB:571:ALA:HA	2:EB:572:PRO:HD3	1.74	0.43
2:EB:683:ASN:ND2	2:EB:683:ASN:H	2.17	0.43
2:EB:905:TYR:N	2:EB:905:TYR:CD1	2.86	0.43
2:EB:1093:LEU:HD12	2:EB:1093:LEU:HA	1.65	0.43
3:EC:71:MET:H	3:EC:71:MET:HG2	1.58	0.43
3:EC:216:HIS:ND1	3:EC:218:LYS:HD2	2.34	0.43
6:EF:129:LYS:HD3	6:EF:129:LYS:HA	1.79	0.43
11:EK:119:LYS:O	11:EK:123:ASP:HB2	2.18	0.43
14:EN:26:PRO:HB2	14:EN:29:PHE:CE1	2.53	0.43
14:EN:37:ASN:HD22	14:EN:38:PHE:H	1.65	0.43
14:EN:107:MET:O	14:EN:108:THR:HG23	2.19	0.43
7:EO:293:LYS:HB3	7:EO:293:LYS:NZ	2.34	0.43
1:FA:4:SER:HB2	1:FA:573:LEU:HD22	2.00	0.43
1:FA:1342:PRO:CG	2:FB:259:THR:HG22	2.48	0.43
2:FB:90:TYR:CG	2:FB:91:LEU:N	2.81	0.43
2:FB:373:MET:O	2:FB:376:PHE:HB3	2.19	0.43
2:FB:572:PRO:HG2	13:FM:70:SER:HB2	2.00	0.43
2:FB:858:ILE:HG12	2:FB:859:CYS:N	2.33	0.43
2:FB:996:PHE:HA	2:FB:999:GLN:HG3	2.01	0.43
3:FC:163:TYR:N	3:FC:166:ASP:OD2	2.48	0.43
14:FN:72:VAL:O	14:FN:73:ASP:C	2.62	0.43
1:AA:34:ASN:HA	1:AA:35:PRO:HD3	1.90	0.43
1:AA:93:GLN:HG3	1:AA:1627:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:467:PHE:O	1:AA:471:MET:HB2	2.19	0.43
1:AA:484:ILE:HG21	1:AA:633:MET:HG3	2.00	0.43
1:AA:1240:LEU:HD11	1:AA:1529:MET:SD	2.58	0.43
2:AB:376:PHE:CD2	2:AB:376:PHE:C	2.97	0.43
2:AB:409:TYR:O	2:AB:413:LEU:HB2	2.19	0.43
2:AB:885:VAL:O	12:AL:57:LEU:HB3	2.19	0.43
4:AD:14:THR:OG1	4:AD:16:LEU:HB2	2.18	0.43
5:AE:178:ILE:HD12	5:AE:179:GLN:N	2.34	0.43
11:AK:114:VAL:O	11:AK:117:LEU:HB3	2.19	0.43
13:AM:10:ILE:HD12	14:AN:70:LEU:O	2.18	0.43
14:AN:155:VAL:HG13	14:AN:156:PRO:HD2	2.00	0.43
7:AO:286:ILE:C	7:AO:288:ASN:N	2.76	0.43
1:BA:124:LEU:HD12	1:BA:133:SER:HA	2.01	0.43
1:BA:380:ASN:O	1:BA:383:ASN:HB2	2.19	0.43
1:BA:588:LEU:HD12	1:BA:588:LEU:HA	1.88	0.43
1:BA:756:LYS:HE3	1:BA:759:TYR:HE2	1.83	0.43
1:BA:1247:SER:OG	1:BA:1248:ASP:N	2.51	0.43
1:BA:1446:ARG:HH12	1:BA:1462:PHE:HB3	1.84	0.43
1:BA:1566:ILE:HG13	1:BA:1566:ILE:H	1.23	0.43
2:BB:561:ILE:HB	2:BB:562:PRO:HD3	2.01	0.43
2:BB:600:GLN:CD	14:BN:90:MET:HE1	2.44	0.43
2:BB:1043:LYS:HG2	2:BB:1063:ARG:HG2	2.01	0.43
3:BC:45:SER:HG	3:BC:271:ARG:HH22	1.58	0.43
3:BC:240:LYS:HB2	3:BC:240:LYS:HE3	1.89	0.43
7:BG:165:ASP:OD2	7:BG:220:SER:HA	2.18	0.43
8:BH:88:SER:OG	8:BH:89:LEU:N	2.52	0.43
10:BJ:45:CYS:O	10:BJ:49:MET:HG2	2.19	0.43
12:BL:53:HIS:C	12:BL:55:ILE:N	2.75	0.43
13:BM:77:VAL:O	14:BN:55:LEU:HD12	2.18	0.43
1:CA:616:LEU:HD12	1:CA:617:HIS:N	2.34	0.43
1:CA:657:TYR:O	1:CA:665:PRO:HA	2.18	0.43
1:CA:1026:GLN:HA	1:CA:1611:MET:CE	2.47	0.43
1:CA:1474:LEU:HD22	1:CA:1474:LEU:HA	1.86	0.43
2:CB:260:PHE:O	2:CB:270:LEU:HA	2.19	0.43
2:CB:262:PHE:CD1	2:CB:357:ILE:HG12	2.54	0.43
2:CB:293:ILE:HD12	2:CB:302:LEU:HB3	2.01	0.43
3:CC:41:GLU:O	3:CC:57:ILE:HD12	2.19	0.43
3:CC:70:ILE:C	3:CC:72:ILE:N	2.73	0.43
4:CD:89:LEU:O	4:CD:92:ILE:N	2.39	0.43
8:CH:47:PHE:O	8:CH:49:VAL:HG23	2.19	0.43
1:DA:671:GLN:O	1:DA:672:ASP:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:676:ALA:O	1:DA:677:GLY:C	2.60	0.43
1:DA:912:VAL:HA	1:DA:913:PRO:HA	1.77	0.43
1:DA:1244:ASN:HA	1:DA:1517:ARG:HH11	1.83	0.43
1:DA:1271:ILE:HG22	9:DI:48:VAL:HG12	2.01	0.43
1:DA:1556:GLU:HG3	5:DE:153:HIS:NE2	2.33	0.43
1:DA:1601:GLN:C	1:DA:1603:MET:N	2.71	0.43
2:DB:47:GLY:HA2	2:DB:50:ASN:HD22	1.84	0.43
2:DB:467:THR:HB	2:DB:469:ASN:ND2	2.28	0.43
2:DB:662:ASP:O	2:DB:663:ILE:HB	2.18	0.43
2:DB:870:LYS:HE2	2:DB:870:LYS:HB2	1.56	0.43
2:DB:944:GLN:HA	2:DB:945:PRO:HD3	1.74	0.43
2:DB:962:MET:O	2:DB:963:PHE:C	2.62	0.43
3:DC:230:LEU:O	3:DC:294:VAL:HG23	2.19	0.43
6:DF:67:LYS:O	6:DF:71:GLU:HG3	2.19	0.43
14:DN:56:ILE:HG22	14:DN:57:LYS:H	1.84	0.43
14:DN:72:VAL:HG22	14:DN:137:PHE:CE1	2.53	0.43
1:EA:499:PRO:C	1:EA:501:PHE:N	2.74	0.43
1:EA:1229:ALA:HB1	1:EA:1595:TYR:CD2	2.54	0.43
1:EA:1457:ILE:HA	1:EA:1474:LEU:CD2	2.49	0.43
1:EA:1458:THR:HG23	1:EA:1473:LYS:O	2.18	0.43
1:EA:1516:LYS:O	1:EA:1518:VAL:HB	2.19	0.43
1:EA:1546:VAL:O	1:EA:1547:ALA:C	2.62	0.43
2:EB:14:ALA:HB2	2:EB:980:ASP:HB2	2.00	0.43
2:EB:203:ILE:CD1	2:EB:203:ILE:H	2.27	0.43
2:EB:637:TYR:HA	2:EB:638:PRO:HD3	1.80	0.43
3:EC:131:THR:HG23	3:EC:209:ILE:HG22	2.01	0.43
3:EC:312:GLU:O	3:EC:315:PHE:N	2.52	0.43
5:EE:75:MET:HE1	5:EE:155:ARG:HH22	1.84	0.43
7:EG:73:TYR:CD2	7:EG:238:THR:HB	2.53	0.43
13:EM:57:ASN:C	13:EM:103:LYS:HZ1	2.27	0.43
1:FA:90:PHE:CE1	1:FA:1623:THR:HG23	2.54	0.43
1:FA:939:ASN:O	1:FA:942:GLN:HB2	2.18	0.43
1:FA:947:LEU:HB2	1:FA:982:VAL:HG21	1.99	0.43
1:FA:1047:GLN:CD	1:FA:1584:LEU:HD13	2.44	0.43
1:FA:1072:ASN:O	1:FA:1075:ALA:N	2.51	0.43
1:FA:1344:ILE:H	1:FA:1344:ILE:HD12	1.83	0.43
2:FB:683:ASN:ND2	2:FB:683:ASN:H	2.16	0.43
2:FB:800:TYR:CD1	2:FB:910:THR:HG23	2.54	0.43
2:FB:1110:ILE:HD13	2:FB:1111:LEU:CD2	2.48	0.43
2:FB:1136:GLU:H	2:FB:1136:GLU:HG3	1.36	0.43
3:FC:131:THR:HG23	3:FC:209:ILE:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FH:9:ILE:HD13	8:FH:56:THR:HG23	2.00	0.43
8:FH:47:PHE:O	8:FH:49:VAL:HG23	2.19	0.43
8:FH:57:VAL:HG13	8:FH:144:ILE:CG1	2.44	0.43
10:FJ:26:GLN:OE1	10:FJ:26:GLN:HA	2.18	0.43
1:AA:395:LEU:HD21	7:AO:280:PHE:CE2	2.53	0.43
1:AA:756:LYS:C	1:AA:758:GLU:N	2.76	0.43
1:AA:758:GLU:O	1:AA:761:GLY:N	2.39	0.43
1:AA:1472:PHE:O	1:AA:1473:LYS:HB3	2.17	0.43
2:AB:219:ARG:HA	2:AB:220:PRO:HD2	1.83	0.43
3:AC:75:VAL:HG12	3:AC:308:MET:HE1	2.00	0.43
3:AC:209:ILE:HD13	3:AC:209:ILE:H	1.84	0.43
7:AG:92:ALA:O	7:AG:94:PRO:HD3	2.18	0.43
9:AI:23:VAL:HB	9:AI:39:LYS:HE3	2.01	0.43
1:BA:88:PRO:HB3	1:BA:435:ASN:OD1	2.19	0.43
1:BA:223:PHE:CZ	1:BA:227:LEU:HD21	2.54	0.43
1:BA:313:THR:HG22	1:BA:314:TYR:N	2.34	0.43
1:BA:498:PRO:O	1:BA:501:PHE:HB2	2.19	0.43
1:BA:674:ILE:HG22	1:BA:675:SER:N	2.32	0.43
1:BA:790:LYS:C	1:BA:792:GLY:H	2.27	0.43
1:BA:1238:MET:SD	1:BA:1524:VAL:HA	2.59	0.43
2:BB:295:ASN:CB	14:BN:104:LEU:HD13	2.47	0.43
2:BB:885:VAL:C	2:BB:886:ASN:HD22	2.27	0.43
2:BB:1006:ASN:HD22	3:BC:277:ARG:HB2	1.84	0.43
1:CA:121:LYS:HE3	1:CA:219:LEU:HD22	2.01	0.43
1:CA:369:LEU:HD12	2:CB:1054:SER:HB2	2.01	0.43
1:CA:913:PRO:HB3	1:CA:926:GLN:OE1	2.19	0.43
2:CB:196:VAL:HG13	2:CB:462:GLN:HG2	2.00	0.43
2:CB:210:ARG:HH22	2:CB:625:GLU:CD	2.26	0.43
3:CC:54:PHE:CZ	3:CC:300:PHE:HB3	2.54	0.43
5:CE:48:ASP:OD1	5:CE:48:ASP:N	2.51	0.43
13:CM:16:GLN:CG	13:CM:17:ASP:H	2.30	0.43
1:DA:76:GLN:H	1:DA:76:GLN:HG2	1.59	0.43
1:DA:122:LEU:O	1:DA:126:GLN:HG3	2.18	0.43
1:DA:127:TYR:CE2	1:DA:193:ILE:HD13	2.54	0.43
1:DA:644:ARG:NH2	6:DF:118:LEU:HD23	2.34	0.43
1:DA:715:LEU:HD22	1:DA:715:LEU:HA	1.87	0.43
1:DA:1658:ALA:O	7:DG:104:LEU:HA	2.19	0.43
2:DB:125:GLU:O	2:DB:129:ARG:HB2	2.19	0.43
2:DB:220:PRO:O	2:DB:223:ALA:HB3	2.18	0.43
2:DB:315:LYS:HG3	2:DB:316:ARG:N	2.34	0.43
2:DB:642:LEU:HD22	2:DB:642:LEU:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:949:ILE:HG13	2:DB:950:ASN:N	2.34	0.43
2:DB:1026:ILE:CD1	2:DB:1028:VAL:HG13	2.46	0.43
3:DC:121:PRO:O	3:DC:125:LYS:HB2	2.18	0.43
3:DC:128:ASP:HB2	3:DC:129:GLU:H	1.74	0.43
3:DC:197:ARG:HG2	10:DJ:61:LEU:HB3	1.99	0.43
5:DE:143:ASN:C	5:DE:145:THR:N	2.77	0.43
5:DE:176:PRO:HB2	5:DE:212:ARG:NE	2.34	0.43
6:DF:120:ILE:O	6:DF:121:ALA:C	2.62	0.43
13:DM:16:GLN:CG	13:DM:17:ASP:H	2.30	0.43
14:DN:118:SER:O	14:DN:119:LEU:HD23	2.19	0.43
1:EA:76:GLN:HB3	1:EA:364:PRO:HD3	2.01	0.43
1:EA:1108:HIS:ND1	1:EA:1117:SER:HB3	2.33	0.43
2:EB:196:VAL:HG13	2:EB:462:GLN:HG2	2.01	0.43
6:EF:138:LEU:HB3	6:EF:140:ASP:OD1	2.18	0.43
7:EG:111:THR:HB	7:EG:112:PRO:HD2	2.01	0.43
1:FA:505:LEU:HD23	1:FA:505:LEU:HA	1.71	0.43
1:FA:644:ARG:NH2	6:FF:118:LEU:HD23	2.34	0.43
1:FA:1025:LYS:HE3	1:FA:1638:SER:OG	2.19	0.43
1:FA:1241:PRO:HG3	1:FA:1540:GLY:C	2.44	0.43
1:FA:1585:ILE:H	1:FA:1585:ILE:HG12	1.11	0.43
2:FB:202:LEU:HD13	2:FB:500:PHE:CE2	2.53	0.43
2:FB:693:PRO:C	2:FB:695:ASN:H	2.26	0.43
3:FC:225:ALA:HB2	3:FC:302:VAL:HG13	2.00	0.43
5:FE:198:ILE:HD11	5:FE:212:ARG:CG	2.44	0.43
7:FG:87:LEU:HA	7:FG:120:VAL:HG23	2.01	0.43
13:FM:9:GLU:HG2	14:FN:70:LEU:O	2.19	0.43
13:FM:10:ILE:HD13	14:FN:70:LEU:HG	2.00	0.43
1:AA:481:ARG:HA	1:AA:633:MET:O	2.19	0.43
1:AA:552:GLU:OE2	1:AA:552:GLU:N	2.51	0.43
1:AA:719:ILE:O	1:AA:724:PRO:HA	2.18	0.43
1:AA:803:PRO:O	1:AA:806:ALA:HB3	2.19	0.43
1:AA:1202:LEU:HD21	9:AI:101:LEU:CD2	2.49	0.43
2:AB:14:ALA:HB2	2:AB:980:ASP:CB	2.48	0.43
2:AB:1026:ILE:O	2:AB:1026:ILE:HG13	2.17	0.43
2:AB:1046:VAL:HG22	2:AB:1047:ARG:N	2.34	0.43
3:AC:80:ALA:HA	3:AC:208:CYS:HB3	2.00	0.43
3:AC:97:LEU:O	3:AC:100:ARG:HB2	2.19	0.43
3:AC:133:VAL:C	3:AC:134:LEU:HG	2.44	0.43
3:AC:216:HIS:O	3:AC:218:LYS:N	2.52	0.43
6:AF:86:THR:HG23	6:AF:89:GLU:OE1	2.19	0.43
7:AG:80:VAL:O	7:AG:124:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:221:ASN:OD1	7:AG:221:ASN:N	2.52	0.43
8:AH:12:VAL:HA	8:AH:28:ALA:HB2	2.01	0.43
9:AI:23:VAL:HG21	9:AI:28:VAL:HG22	2.00	0.43
13:AM:65:TYR:C	13:AM:65:TYR:CD2	2.97	0.43
1:BA:121:LYS:HE3	1:BA:219:LEU:HD13	2.01	0.43
1:BA:431:GLN:O	1:BA:435:ASN:ND2	2.52	0.43
1:BA:741:PRO:HA	1:BA:742:PRO:HD3	1.88	0.43
1:BA:810:LEU:O	1:BA:811:SER:C	2.62	0.43
1:BA:1168:ALA:O	1:BA:1171:GLN:N	2.52	0.43
1:BA:1482:LYS:NZ	2:BB:304:ASP:OD1	2.51	0.43
1:BA:1537:ASP:C	1:BA:1539:ASP:H	2.26	0.43
2:BB:703:LEU:HD21	2:BB:757:TYR:HD2	1.84	0.43
2:BB:840:LEU:HD11	2:BB:858:ILE:C	2.44	0.43
2:BB:1053:ASN:HD22	2:BB:1054:SER:H	1.65	0.43
3:BC:70:ILE:O	3:BC:72:ILE:N	2.51	0.43
3:BC:116:VAL:HG22	3:BC:130:ASN:OD1	2.19	0.43
1:CA:108:PHE:C	1:CA:110:LEU:H	2.27	0.43
1:CA:132:GLU:OE2	1:CA:201:ARG:NH2	2.51	0.43
1:CA:432:ASN:HA	1:CA:435:ASN:HD22	1.83	0.43
1:CA:507:TYR:OH	1:CA:641:GLU:N	2.52	0.43
1:CA:507:TYR:HA	1:CA:508:PRO:HD2	1.87	0.43
1:CA:882:ILE:HD11	9:CI:67:VAL:HG11	1.99	0.43
1:CA:985:ARG:HG2	1:CA:988:SER:H	1.83	0.43
1:CA:1063:MET:HE2	1:CA:1063:MET:HB3	1.83	0.43
1:CA:1611:MET:O	1:CA:1614:SER:OG	2.34	0.43
2:CB:416:LYS:HZ3	2:CB:471:VAL:CG1	2.32	0.43
2:CB:704:THR:HA	2:CB:705:PRO:HD2	1.88	0.43
2:CB:774:ALA:HA	2:CB:1028:VAL:HG12	1.99	0.43
3:CC:66:ALA:O	3:CC:67:PHE:C	2.62	0.43
5:CE:55:ARG:HB3	5:CE:82:PHE:HB3	2.01	0.43
6:CF:84:TYR:C	6:CF:151:LEU:HD13	2.44	0.43
7:CG:58:LEU:HD23	7:CG:58:LEU:HA	1.67	0.43
7:CG:80:VAL:HG12	7:CG:82:LEU:HD23	2.01	0.43
7:CG:163:PRO:HG2	7:CG:166:TRP:CD1	2.54	0.43
12:CL:30:ILE:HD12	12:CL:59:ALA:HB2	2.00	0.43
14:CN:58:PHE:HA	14:CN:139:VAL:CG2	2.48	0.43
1:DA:50:TYR:OH	1:DA:370:PRO:HG3	2.19	0.43
1:DA:488:PRO:HD2	2:DB:781:TYR:CZ	2.54	0.43
1:DA:545:SER:C	1:DA:547:ILE:H	2.27	0.43
1:DA:554:ARG:O	1:DA:555:LYS:C	2.62	0.43
1:DA:756:LYS:C	1:DA:758:GLU:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:985:ARG:HG3	1:DA:987:TYR:H	1.84	0.43
1:DA:1021:ARG:HH12	1:DA:1615:TYR:HA	1.84	0.43
1:DA:1062:HIS:HD2	1:DA:1068:PHE:CD1	2.37	0.43
2:DB:210:ARG:HH21	2:DB:667:PHE:HB2	1.84	0.43
2:DB:1153:ILE:CD1	2:DB:1154:ASP:H	2.31	0.43
3:DC:67:PHE:HE1	3:DC:318:VAL:HA	1.84	0.43
7:DG:168:PHE:HD1	7:DG:217:TRP:CE2	2.37	0.43
9:DI:20:PRO:O	9:DI:22:ALA:N	2.50	0.43
13:DM:80:LEU:HD12	13:DM:91:TYR:CE1	2.53	0.43
1:EA:914:ASP:O	1:EA:919:LYS:NZ	2.28	0.43
1:EA:1217:LEU:HD13	1:EA:1573:TYR:CE1	2.51	0.43
2:EB:163:VAL:HG12	2:EB:164:MET:N	2.34	0.43
2:EB:412:ILE:O	2:EB:416:LYS:HG2	2.18	0.43
2:EB:434:ARG:HD3	7:FG:226:ASP:O	2.18	0.43
2:EB:1125:THR:HG22	2:EB:1126:VAL:H	1.84	0.43
3:EC:209:ILE:HG12	3:EC:210:LEU:N	2.34	0.43
5:EE:106:GLN:O	5:EE:131:THR:HG23	2.19	0.43
8:EH:108:SER:O	8:EH:109:LYS:C	2.62	0.43
14:EN:155:VAL:HG13	14:EN:156:PRO:HD2	2.01	0.43
1:FA:197:LEU:HD21	1:FA:203:THR:O	2.19	0.43
1:FA:718:THR:HG22	8:FH:98:TYR:O	2.19	0.43
1:FA:1102:LEU:HD12	1:FA:1105:ARG:HE	1.83	0.43
2:FB:184:LYS:HE2	2:FB:735:HIS:CD2	2.54	0.43
2:FB:625:GLU:HB2	2:FB:643:PHE:O	2.18	0.43
2:FB:903:ILE:HD13	2:FB:905:TYR:HE1	1.83	0.43
7:FG:97:LYS:H	7:FG:97:LYS:HG3	1.52	0.43
10:FJ:3:VAL:HG12	10:FJ:15:GLY:HA2	2.01	0.43
1:AA:3:ILE:H	1:AA:3:ILE:HG12	1.57	0.42
1:AA:253:GLU:O	1:AA:312:SER:HA	2.19	0.42
1:AA:928:MET:HE2	1:AA:928:MET:HB2	1.92	0.42
1:AA:996:TYR:CE2	1:AA:1000:MET:HE2	2.53	0.42
1:AA:1182:GLY:O	1:AA:1183:GLU:C	2.62	0.42
1:AA:1314:GLN:HG3	1:AA:1315:ASN:N	2.34	0.42
2:AB:467:THR:HB	2:AB:469:ASN:ND2	2.31	0.42
2:AB:561:ILE:HB	2:AB:562:PRO:HD3	2.01	0.42
2:AB:1111:LEU:HD23	2:AB:1111:LEU:H	1.84	0.42
3:AC:81:GLU:OE1	12:AL:70:ARG:NH1	2.52	0.42
5:AE:93:MET:O	5:AE:97:VAL:HG23	2.19	0.42
7:AG:235:ASN:HB3	7:AG:246:ASP:HB3	2.01	0.42
11:AK:59:THR:HA	11:AK:107:THR:HG23	2.01	0.42
14:AN:55:LEU:HB3	14:AN:136:VAL:CG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:475:ARG:HB3	1:BA:475:ARG:HH11	1.84	0.42
1:BA:892:LEU:HG	1:BA:893:ASP:OD1	2.19	0.42
1:BA:1263:LEU:HA	1:BA:1263:LEU:HD12	1.87	0.42
2:BB:75:ASP:CG	2:BB:76:GLY:N	2.77	0.42
2:BB:328:GLN:NE2	13:BM:111:PRO:O	2.51	0.42
2:BB:848:ILE:HD12	2:BB:885:VAL:CG2	2.49	0.42
2:BB:858:ILE:HG12	2:BB:872:LYS:O	2.19	0.42
3:BC:81:GLU:OE1	3:BC:81:GLU:HA	2.18	0.42
5:BE:28:TYR:HA	5:BE:64:PRO:HA	2.01	0.42
7:BG:39:VAL:HB	7:BG:126:GLN:HE21	1.83	0.42
8:BH:5:LEU:O	8:BH:6:PHE:HB2	2.18	0.42
8:BH:128:ASN:OD1	8:BH:130:ARG:HB2	2.19	0.42
1:CA:530:TRP:CZ2	1:CA:582:LYS:HA	2.53	0.42
1:CA:1603:MET:HE3	1:CA:1603:MET:HB3	1.69	0.42
2:CB:22:GLU:O	2:CB:26:ILE:HG13	2.18	0.42
2:CB:54:GLU:HB3	2:CB:55:GLY:H	1.56	0.42
2:CB:504:HIS:HB3	2:CB:542:LEU:HD23	2.00	0.42
2:CB:858:ILE:HG12	2:CB:872:LYS:O	2.19	0.42
2:CB:878:GLU:OE2	2:CB:907:ILE:HG23	2.19	0.42
2:CB:894:LYS:HB2	2:CB:894:LYS:HE3	1.84	0.42
2:CB:909:ARG:O	2:CB:1035:ARG:NH2	2.44	0.42
2:CB:1086:PHE:O	2:CB:1089:GLN:N	2.52	0.42
3:CC:87:ASN:OD1	3:CC:88:ASN:N	2.52	0.42
3:CC:140:CYS:HB2	3:CC:196:LEU:HD13	2.02	0.42
3:CC:310:PRO:O	3:CC:311:GLU:C	2.62	0.42
6:CF:118:LEU:HD13	6:CF:118:LEU:HA	1.82	0.42
7:CG:39:VAL:HB	7:CG:126:GLN:HE21	1.83	0.42
7:CG:162:ILE:HG13	7:CG:162:ILE:H	1.64	0.42
8:CH:101:ALA:HB2	8:CH:116:TYR:CE1	2.53	0.42
8:CH:123:MET:HE1	8:CH:142:LEU:HD22	2.01	0.42
13:CM:12:ILE:HA	13:CM:88:ILE:HG23	2.01	0.42
14:CN:171:PHE:CD1	14:CN:180:PHE:HE2	2.36	0.42
1:DA:342:ARG:CZ	1:DA:342:ARG:HB2	2.48	0.42
1:DA:380:ASN:O	1:DA:383:ASN:HB2	2.19	0.42
1:DA:678:VAL:HG22	1:DA:781:LEU:O	2.19	0.42
1:DA:756:LYS:HE3	1:DA:759:TYR:HE2	1.84	0.42
1:DA:780:ILE:H	1:DA:780:ILE:HG13	1.75	0.42
1:DA:830:MET:CB	2:DB:1008:HIS:HB3	2.49	0.42
1:DA:1003:ARG:NH1	2:DB:520:LEU:HD22	2.34	0.42
1:DA:1237:GLN:H	1:DA:1544:ASN:CB	2.30	0.42
2:DB:61:LEU:O	2:DB:64:GLY:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:362:LEU:HD23	2:DB:362:LEU:HA	1.75	0.42
2:DB:732:ALA:O	2:DB:736:ARG:HG3	2.19	0.42
2:DB:785:ASP:HB3	2:DB:957:ARG:HH22	1.84	0.42
2:DB:887:LEU:HD13	12:DL:56:LEU:O	2.19	0.42
7:DG:40:ARG:HB2	7:DG:123:TYR:CE1	2.53	0.42
7:DG:60:GLY:O	7:DG:64:GLN:HB2	2.19	0.42
11:DK:115:ASP:O	11:DK:118:GLN:N	2.52	0.42
13:DM:76:TYR:CE1	14:DN:57:LYS:HG3	2.54	0.42
7:DO:266:GLN:O	7:DO:268:GLU:N	2.52	0.42
1:EA:520:ARG:O	1:EA:521:GLN:C	2.62	0.42
1:EA:1033:SER:O	1:EA:1181:PRO:HB3	2.19	0.42
1:EA:1164:LYS:O	1:EA:1167:ARG:HB3	2.19	0.42
2:EB:696:ILE:HG13	2:EB:696:ILE:H	1.73	0.42
2:EB:844:GLY:HA2	2:EB:860:ALA:HB3	2.01	0.42
2:EB:979:GLN:OE1	2:EB:979:GLN:HA	2.18	0.42
3:EC:61:THR:HA	3:EC:298:PHE:CZ	2.54	0.42
5:EE:139:ALA:C	5:EE:141:VAL:H	2.26	0.42
11:EK:138:LYS:O	11:EK:142:MET:HB2	2.19	0.42
13:EM:12:ILE:HA	13:EM:88:ILE:HG23	2.00	0.42
7:EO:304:ASN:HD22	7:EO:306:SER:HB2	1.83	0.42
1:FA:17:GLY:O	2:FB:1194:ILE:HA	2.19	0.42
1:FA:674:ILE:HG12	1:FA:783:LYS:HB2	2.00	0.42
1:FA:780:ILE:H	1:FA:780:ILE:HG13	1.67	0.42
1:FA:1003:ARG:NH2	2:FB:533:THR:HG21	2.34	0.42
1:FA:1321:PHE:CD2	1:FA:1321:PHE:C	2.96	0.42
1:FA:1526:PHE:O	1:FA:1528:ALA:N	2.52	0.42
2:FB:90:TYR:CD1	2:FB:91:LEU:N	2.86	0.42
2:FB:141:LEU:HD23	2:FB:450:LEU:HD11	2.00	0.42
2:FB:420:TYR:CE1	2:FB:424:ILE:HD11	2.54	0.42
2:FB:570:VAL:HG13	2:FB:596:VAL:HG13	1.99	0.42
2:FB:608:LEU:O	2:FB:612:LYS:N	2.44	0.42
2:FB:942:GLY:C	2:FB:943:ILE:HD12	2.44	0.42
3:FC:55:ASP:C	3:FC:56:LEU:HD23	2.44	0.42
10:FJ:36:LEU:HD11	10:FJ:51:LEU:HB2	2.01	0.42
7:FO:308:ILE:HD13	7:FO:308:ILE:HA	1.72	0.42
1:AA:11:ILE:HD12	1:AA:11:ILE:O	2.19	0.42
1:AA:549:MET:SD	1:AA:553:GLN:NE2	2.92	0.42
1:AA:671:GLN:CA	2:AB:952:HIS:HD2	2.33	0.42
1:AA:695:TYR:HE1	1:AA:820:TYR:HA	1.83	0.42
1:AA:865:ASP:HB3	1:AA:868:THR:OG1	2.19	0.42
1:AA:1067:GLU:C	1:AA:1069:CYS:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1130:ALA:HB1	6:AF:82:THR:HB	2.00	0.42
1:AA:1193:VAL:O	1:AA:1196:PRO:HD2	2.19	0.42
1:AA:1543:SER:OG	1:AA:1544:ASN:N	2.50	0.42
2:AB:692:THR:HB	2:AB:693:PRO:HD2	2.00	0.42
3:AC:73:SER:O	3:AC:212:ILE:HD13	2.19	0.42
5:AE:127:ILE:HD11	5:AE:132:ILE:CD1	2.48	0.42
6:AF:75:PRO:HG2	6:AF:78:GLN:OE1	2.19	0.42
14:AN:131:LEU:HG	14:AN:132:GLN:N	2.34	0.42
1:BA:509:GLU:HA	1:BA:510:PRO:HD3	1.83	0.42
1:BA:713:VAL:HG12	1:BA:714:THR:H	1.82	0.42
1:BA:785:GLN:HB3	1:BA:793:ILE:HG22	2.01	0.42
1:BA:852:ASP:OD1	1:BA:855:ARG:NE	2.49	0.42
1:BA:1582:LEU:N	1:BA:1582:LEU:HD23	2.34	0.42
2:BB:547:HIS:NE2	2:BB:694:THR:O	2.52	0.42
2:BB:551:ILE:CD1	2:BB:649:MET:HA	2.49	0.42
2:BB:699:ILE:HD13	2:BB:699:ILE:N	2.31	0.42
2:BB:783:MET:O	2:BB:784:ASP:C	2.62	0.42
3:BC:67:PHE:O	3:BC:71:MET:HG2	2.18	0.42
3:BC:321:LEU:HD23	11:BK:128:CYS:HB3	2.00	0.42
5:BE:47:CYS:SG	5:BE:53:PRO:HA	2.59	0.42
5:BE:82:PHE:CZ	5:BE:111:VAL:HG21	2.54	0.42
7:BG:41:VAL:HA	7:BG:42:PRO:HD3	1.84	0.42
1:CA:3:ILE:HA	7:CG:111:THR:HG22	2.00	0.42
1:CA:257:ASN:O	1:CA:261:ILE:HG13	2.19	0.42
1:CA:646:GLU:CD	2:CB:1086:PHE:HB2	2.45	0.42
1:CA:1055:ILE:HD13	1:CA:1055:ILE:HA	1.92	0.42
1:CA:1117:SER:C	1:CA:1119:LYS:N	2.75	0.42
1:CA:1647:ASN:HD22	1:CA:1648:ASN:N	2.17	0.42
2:CB:74:PHE:HB2	2:CB:91:LEU:HB3	2.01	0.42
2:CB:244:THR:O	2:CB:244:THR:OG1	2.32	0.42
2:CB:280:LEU:O	2:CB:323:ARG:NH2	2.52	0.42
2:CB:373:MET:HE2	2:CB:592:ILE:HG13	2.00	0.42
2:CB:475:GLY:C	2:CB:477:ASP:N	2.77	0.42
2:CB:547:HIS:NE2	2:CB:694:THR:O	2.51	0.42
7:CG:163:PRO:HG2	7:CG:166:TRP:NE1	2.34	0.42
1:DA:32:ILE:HG21	1:DA:49:LEU:HD23	2.00	0.42
1:DA:340:HIS:HB3	1:DA:342:ARG:O	2.20	0.42
1:DA:366:ARG:HG3	1:DA:367:PHE:CD1	2.54	0.42
1:DA:543:LEU:HA	1:DA:543:LEU:HD23	1.78	0.42
1:DA:717:PRO:HB3	1:DA:726:TRP:CZ2	2.54	0.42
1:DA:748:ASN:N	1:DA:748:ASN:ND2	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1660:VAL:HA	1:DA:1661:PRO:HD3	1.90	0.42
2:DB:1103:VAL:CG1	2:DB:1110:ILE:HG22	2.50	0.42
3:DC:227:TYR:HA	3:DC:299:ILE:O	2.19	0.42
5:DE:120:ALA:O	5:DE:123:LEU:HB2	2.20	0.42
9:DI:111:PHE:HA	9:DI:121:PHE:O	2.20	0.42
11:DK:80:ILE:H	11:DK:80:ILE:HG13	1.67	0.42
14:DN:110:LEU:HB3	14:DN:119:LEU:HB3	2.00	0.42
1:EA:380:ASN:HA	7:EO:312:GLU:OE1	2.19	0.42
1:EA:480:ALA:CB	2:EB:1046:VAL:HA	2.49	0.42
1:EA:907:VAL:HG12	1:EA:945:CYS:SG	2.59	0.42
1:EA:1097:TYR:HD2	1:EA:1123:VAL:HG13	1.84	0.42
1:EA:1314:GLN:HG3	1:EA:1315:ASN:N	2.34	0.42
1:EA:1325:LEU:HD22	1:EA:1492:ILE:HG21	2.01	0.42
2:EB:46:ILE:HG22	2:EB:50:ASN:ND2	2.34	0.42
2:EB:295:ASN:HB3	14:EN:104:LEU:HD13	2.01	0.42
2:EB:416:LYS:HZ3	2:EB:471:VAL:CG1	2.31	0.42
2:EB:501:ARG:HH21	2:EB:545:PHE:HB2	1.84	0.42
2:EB:529:CYS:SG	2:EB:530:PRO:HD2	2.59	0.42
2:EB:885:VAL:C	2:EB:886:ASN:HD22	2.27	0.42
2:EB:887:LEU:HD13	12:EL:56:LEU:O	2.19	0.42
7:EG:38:ILE:H	7:EG:38:ILE:HG13	1.29	0.42
11:EK:52:GLN:OE1	11:EK:52:GLN:N	2.39	0.42
12:EL:64:LEU:HD12	12:EL:65:VAL:N	2.34	0.42
13:EM:80:LEU:HD22	14:EN:51:GLN:OE1	2.18	0.42
13:EM:81:PHE:CD1	13:EM:88:ILE:HB	2.52	0.42
1:FA:507:TYR:HB2	1:FA:637:PHE:CZ	2.54	0.42
1:FA:554:ARG:O	1:FA:556:ALA:N	2.51	0.42
1:FA:1067:GLU:C	1:FA:1069:CYS:N	2.77	0.42
2:FB:70:GLU:HG2	2:FB:97:VAL:C	2.44	0.42
2:FB:164:MET:HE2	2:FB:193:TYR:O	2.19	0.42
2:FB:215:MET:HE3	2:FB:394:PRO:HB3	2.00	0.42
3:FC:197:ARG:HB3	3:FC:198:PRO:HD2	2.00	0.42
5:FE:32:GLN:O	5:FE:35:VAL:HB	2.18	0.42
12:FL:61:THR:O	12:FL:63:ARG:N	2.52	0.42
1:AA:1047:GLN:CD	1:AA:1584:LEU:HD13	2.44	0.42
1:AA:1490:GLU:O	1:AA:1493:CYS:HB2	2.19	0.42
1:AA:1589:MET:HE2	1:AA:1598:PHE:CE1	2.54	0.42
2:AB:381:LEU:O	2:AB:385:VAL:HG23	2.20	0.42
3:AC:223:SER:OG	10:AJ:12:LYS:HA	2.18	0.42
5:AE:164:LEU:HD12	5:AE:164:LEU:HA	1.87	0.42
9:AI:10:CYS:HB2	9:AI:17:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:66:LEU:HA	12:AL:35:SER:OG	2.18	0.42
14:AN:75:GLU:C	14:AN:91:ASP:HB3	2.44	0.42
14:AN:171:PHE:CD1	14:AN:180:PHE:HE2	2.37	0.42
1:BA:11:ILE:HD11	1:BA:1643:VAL:HG11	2.00	0.42
1:BA:719:ILE:HG22	1:BA:725:LEU:H	1.84	0.42
1:BA:722:PRO:HG2	8:BH:46:LEU:HD13	2.00	0.42
1:BA:808:LYS:O	1:BA:811:SER:N	2.52	0.42
1:BA:831:ASP:OD1	1:BA:831:ASP:N	2.44	0.42
1:BA:1600:ARG:HB2	1:BA:1616:GLU:CD	2.44	0.42
2:BB:288:ILE:HG22	2:BB:289:PHE:N	2.34	0.42
2:BB:351:GLN:O	2:BB:354:LEU:N	2.51	0.42
2:BB:566:TYR:HB3	13:BM:74:ASN:OD1	2.20	0.42
2:BB:744:LEU:HD12	2:BB:745:GLN:N	2.34	0.42
2:BB:1178:ILE:HB	2:BB:1182:LEU:HD23	2.00	0.42
9:BI:58:SER:H	9:BI:61:ARG:HB3	1.84	0.42
11:BK:69:ASP:HB2	11:BK:70:HIS:H	1.71	0.42
1:CA:520:ARG:O	1:CA:521:GLN:C	2.62	0.42
1:CA:659:THR:HG22	1:CA:666:VAL:HG22	2.00	0.42
1:CA:732:ILE:H	1:CA:732:ILE:HG12	1.27	0.42
1:CA:1303:SER:O	1:CA:1307:ASP:HA	2.20	0.42
2:CB:137:LEU:HD23	2:CB:161:LEU:HD23	2.00	0.42
2:CB:572:PRO:HG2	13:CM:70:SER:HB2	2.01	0.42
2:CB:768:GLY:C	2:CB:769:PHE:CD2	2.97	0.42
2:CB:1000:LEU:HD13	2:CB:1009:GLY:HA2	2.02	0.42
2:CB:1178:ILE:O	2:CB:1178:ILE:HG13	2.10	0.42
3:CC:70:ILE:HG21	3:CC:317:SER:HA	2.01	0.42
3:CC:131:THR:HG22	3:CC:132:ILE:H	1.85	0.42
3:CC:195:LYS:HB2	10:CJ:57:ILE:CD1	2.50	0.42
3:CC:216:HIS:ND1	3:CC:218:LYS:HD2	2.34	0.42
4:CD:22:ILE:HG23	7:CG:44:ALA:O	2.18	0.42
6:CF:60:GLN:O	6:CF:64:ILE:HG13	2.20	0.42
7:CG:50:ALA:HB1	7:CG:52:MET:HG2	2.01	0.42
8:CH:42:ILE:HD13	8:CH:95:TYR:HE2	1.83	0.42
11:CK:47:ILE:HD11	11:CK:63:PHE:HB3	2.00	0.42
1:DA:70:LYS:HE2	1:DA:71:PHE:CE1	2.53	0.42
1:DA:141:LEU:HG	1:DA:142:GLY:N	2.28	0.42
1:DA:772:LYS:HE3	1:DA:772:LYS:HB3	1.85	0.42
1:DA:1056:ASP:OD1	1:DA:1058:THR:HG23	2.20	0.42
1:DA:1257:SER:HA	1:DA:1499:ARG:NH2	2.34	0.42
1:DA:1527:GLN:HA	1:DA:1530:TRP:CE3	2.54	0.42
2:DB:161:LEU:HD12	2:DB:162:PRO:CD	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:86:PHE:O	3:DC:87:ASN:HB2	2.19	0.42
3:DC:100:ARG:HH12	3:DC:193:LEU:CA	2.33	0.42
3:DC:254:GLY:O	3:DC:268:LYS:HB2	2.19	0.42
8:DH:80:ARG:HB2	11:DK:108:TYR:HE1	1.84	0.42
1:EA:37:VAL:HG22	1:EA:49:LEU:HB2	2.02	0.42
1:EA:111:LYS:O	1:EA:115:VAL:HG23	2.19	0.42
1:EA:369:LEU:HD23	1:EA:369:LEU:HA	1.82	0.42
1:EA:507:TYR:HB3	1:EA:579:ARG:NH1	2.35	0.42
1:EA:530:TRP:CZ2	1:EA:607:VAL:HG21	2.53	0.42
1:EA:949:GLN:HB2	1:EA:981:TYR:HD1	1.84	0.42
1:EA:1237:GLN:HB2	1:EA:1544:ASN:HB2	2.02	0.42
2:EB:74:PHE:HB2	2:EB:91:LEU:O	2.19	0.42
2:EB:527:PHE:HE2	2:EB:669:GLN:NE2	2.17	0.42
2:EB:800:TYR:CE1	2:EB:910:THR:HG23	2.53	0.42
2:EB:887:LEU:C	2:EB:888:ILE:HD12	2.44	0.42
2:EB:989:ASP:HB3	2:EB:990:ASP:H	1.63	0.42
3:EC:254:GLY:O	3:EC:268:LYS:HB2	2.18	0.42
4:ED:93:GLN:HG3	4:ED:94:ARG:N	2.33	0.42
5:EE:112:TYR:CE1	5:EE:136:ASN:HB2	2.54	0.42
5:EE:120:ALA:O	5:EE:123:LEU:HB2	2.19	0.42
12:EL:63:ARG:HG3	12:EL:63:ARG:HH11	1.84	0.42
1:FA:262:THR:HA	1:FA:265:ARG:CZ	2.49	0.42
1:FA:556:ALA:C	1:FA:558:ALA:N	2.76	0.42
1:FA:856:GLU:H	1:FA:856:GLU:HG3	1.62	0.42
1:FA:1441:LYS:HA	1:FA:1444:ARG:HD2	2.00	0.42
1:FA:1555:VAL:HG11	5:FE:178:ILE:HD13	2.02	0.42
1:FA:1582:LEU:O	1:FA:1583:ASP:C	2.61	0.42
2:FB:168:ASN:OD1	2:FB:169:ARG:HG2	2.18	0.42
2:FB:373:MET:HE1	2:FB:587:GLN:NE2	2.34	0.42
2:FB:416:LYS:HZ3	2:FB:471:VAL:CG1	2.32	0.42
2:FB:462:GLN:O	2:FB:466:SER:N	2.52	0.42
2:FB:463:TYR:C	2:FB:463:TYR:CD1	2.96	0.42
2:FB:652:PRO:O	2:FB:653:VAL:HG13	2.19	0.42
2:FB:744:LEU:HD12	2:FB:800:TYR:O	2.18	0.42
2:FB:844:GLY:HA2	2:FB:860:ALA:HB3	2.01	0.42
2:FB:965:GLU:HB3	2:FB:1031:VAL:HG22	2.02	0.42
2:FB:994:ASP:OD1	2:FB:994:ASP:N	2.52	0.42
2:FB:1117:VAL:HA	2:FB:1118:PRO:HD3	1.89	0.42
9:FI:15:ASP:CG	9:FI:32:GLN:HG3	2.44	0.42
11:FK:115:ASP:O	11:FK:118:GLN:N	2.52	0.42
13:FM:16:GLN:HB3	13:FM:91:TYR:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FM:18:GLN:HG3	13:FM:19:PRO:HD2	2.01	0.42
14:FN:113:SER:OG	14:FN:114:GLU:N	2.50	0.42
7:FO:272:ILE:HG12	7:FO:275:ASN:ND2	2.34	0.42
1:AA:597:LYS:HB2	2:AB:1082:HIS:NE2	2.35	0.42
1:AA:672:ASP:HB2	2:AB:783:MET:HE3	2.02	0.42
1:AA:773:ASP:OD2	1:AA:773:ASP:N	2.52	0.42
1:AA:913:PRO:HB3	1:AA:926:GLN:OE1	2.20	0.42
1:AA:1063:MET:HE2	1:AA:1063:MET:HB3	1.86	0.42
1:AA:1076:LEU:HD23	1:AA:1076:LEU:HA	1.76	0.42
1:AA:1102:LEU:HD13	1:AA:1105:ARG:HH21	1.84	0.42
2:AB:280:LEU:O	2:AB:323:ARG:NH2	2.53	0.42
2:AB:548:LYS:HA	2:AB:550:ARG:NH1	2.35	0.42
2:AB:774:ALA:HA	2:AB:1028:VAL:CG1	2.49	0.42
2:AB:853:GLU:HB3	2:AB:879:PRO:HB3	2.02	0.42
2:AB:1151:ILE:HG22	2:AB:1152:PHE:N	2.34	0.42
3:AC:303:GLU:O	3:AC:304:SER:HB2	2.19	0.42
1:BA:113:VAL:HG13	1:BA:182:LYS:CG	2.47	0.42
1:BA:499:PRO:C	1:BA:501:PHE:N	2.77	0.42
1:BA:713:VAL:HB	1:BA:738:ASN:ND2	2.33	0.42
1:BA:751:SER:OG	1:BA:752:LYS:N	2.52	0.42
1:BA:920:PHE:CG	1:BA:921:PRO:HA	2.55	0.42
1:BA:1333:ILE:CD1	1:BA:1483:LEU:HD21	2.49	0.42
1:BA:1596:LEU:HD23	1:BA:1596:LEU:HA	1.81	0.42
2:BB:45:HIS:CE1	2:BB:205:MET:SD	3.12	0.42
2:BB:523:GLU:H	2:BB:523:GLU:HG2	1.48	0.42
2:BB:531:VAL:O	2:BB:716:MET:HG3	2.19	0.42
2:BB:622:ILE:HD12	2:BB:622:ILE:H	1.84	0.42
2:BB:1178:ILE:HD12	2:BB:1179:PRO:O	2.19	0.42
3:BC:82:TYR:HB3	3:BC:84:TYR:HE1	1.84	0.42
3:BC:197:ARG:HB3	3:BC:198:PRO:HD2	2.01	0.42
3:BC:228:ARG:HD3	14:BN:173:THR:CG2	2.49	0.42
3:BC:235:ILE:HA	3:BC:289:VAL:HG13	2.02	0.42
5:BE:176:PRO:HB2	5:BE:212:ARG:HD3	2.02	0.42
8:BH:12:VAL:HA	8:BH:28:ALA:HB2	2.02	0.42
8:BH:103:LYS:O	8:BH:104:PHE:HD1	2.02	0.42
1:CA:621:THR:HG23	1:CA:626:ALA:HB3	2.02	0.42
1:CA:795:HIS:O	1:CA:798:HIS:HB3	2.18	0.42
1:CA:987:TYR:C	1:CA:987:TYR:HD2	2.27	0.42
1:CA:1275:THR:HG22	9:CI:46:LYS:HB2	2.00	0.42
2:CB:792:SER:HB2	2:CB:933:THR:HB	2.00	0.42
2:CB:898:LEU:HD22	12:CL:46:VAL:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:916:LYS:HZ3	2:CB:924:LYS:HE2	1.83	0.42
3:CC:269:ASP:C	3:CC:271:ARG:N	2.78	0.42
5:CE:137:GLU:C	5:CE:139:ALA:N	2.73	0.42
7:CG:106:LYS:HG3	7:CG:107:ILE:N	2.34	0.42
9:CI:11:LEU:HD12	9:CI:11:LEU:H	1.83	0.42
12:CL:63:ARG:HG3	12:CL:63:ARG:NH1	2.34	0.42
1:DA:209:THR:HG21	5:DE:174:GLN:HG3	2.00	0.42
1:DA:481:ARG:HA	1:DA:633:MET:O	2.19	0.42
1:DA:966:LEU:CG	1:DA:968:SER:H	2.23	0.42
1:DA:1049:MET:HG2	1:DA:1054:ALA:HB2	2.01	0.42
1:DA:1226:VAL:HG12	1:DA:1227:MET:N	2.35	0.42
1:DA:1310:LYS:O	1:DA:1313:LEU:HB3	2.19	0.42
1:DA:1471:GLU:C	1:DA:1472:PHE:CD2	2.98	0.42
1:DA:1507:CYS:SG	1:DA:1508:VAL:N	2.91	0.42
1:DA:1655:ASP:HB2	6:DF:135:ARG:HB3	2.00	0.42
2:DB:91:LEU:CD1	2:DB:342:PRO:HB2	2.49	0.42
2:DB:655:TYR:CE2	2:DB:657:PRO:HB2	2.54	0.42
2:DB:825:PHE:CE2	2:DB:899:GLN:HA	2.53	0.42
2:DB:968:ALA:O	2:DB:979:GLN:HG3	2.19	0.42
2:DB:1007:TYR:C	2:DB:1009:GLY:H	2.27	0.42
2:DB:1110:ILE:O	2:DB:1110:ILE:HG12	2.16	0.42
2:DB:1141:LEU:HD13	7:DG:17:ILE:HG21	2.02	0.42
3:DC:73:SER:O	3:DC:212:ILE:HD13	2.19	0.42
3:DC:197:ARG:HB3	3:DC:198:PRO:HD2	2.01	0.42
7:DG:99:ASP:O	7:DG:100:THR:C	2.62	0.42
10:DJ:39:LEU:HD23	10:DJ:39:LEU:HA	1.82	0.42
12:DL:61:THR:O	12:DL:63:ARG:N	2.52	0.42
13:DM:44:LYS:HA	13:DM:44:LYS:HD2	1.67	0.42
1:EA:678:VAL:HG13	1:EA:781:LEU:O	2.19	0.42
1:EA:1102:LEU:HD12	1:EA:1102:LEU:HA	1.65	0.42
1:EA:1224:GLU:HB3	1:EA:1233:ILE:HG22	2.01	0.42
1:EA:1527:GLN:HA	1:EA:1530:TRP:CE3	2.54	0.42
1:EA:1619:CYS:O	1:EA:1622:LEU:HB3	2.19	0.42
1:EA:1620:GLN:N	1:EA:1620:GLN:CD	2.77	0.42
2:EB:376:PHE:HB2	2:EB:592:ILE:HD11	2.01	0.42
2:EB:389:CYS:HB2	2:EB:635:GLY:O	2.20	0.42
2:EB:840:LEU:HD12	2:EB:857:PRO:HB2	2.02	0.42
2:EB:878:GLU:HA	2:EB:879:PRO:HD2	1.85	0.42
3:EC:45:SER:HB3	3:EC:53:ASN:HB3	2.00	0.42
7:EG:31:LYS:C	7:EG:33:GLY:N	2.77	0.42
7:EG:49:LEU:HD12	7:EG:50:ALA:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:EH:128:ASN:OD1	8:EH:130:ARG:HB2	2.19	0.42
1:FA:723:TYR:CD1	1:FA:724:PRO:HD2	2.54	0.42
1:FA:968:SER:HB2	2:FB:676:VAL:HG23	1.98	0.42
2:FB:398:GLN:HB3	2:FB:399:HIS:ND1	2.35	0.42
2:FB:492:ASN:OD1	2:FB:494:TYR:HB2	2.19	0.42
2:FB:832:TRP:HE3	2:FB:834:LYS:H	1.67	0.42
2:FB:971:ALA:O	2:FB:973:ALA:N	2.52	0.42
2:FB:1052:VAL:HG12	2:FB:1059:PRO:HG3	2.00	0.42
3:FC:115:TRP:HB3	3:FC:116:VAL:H	1.65	0.42
4:FD:88:GLN:NE2	4:FD:91:ARG:HH21	2.16	0.42
7:FG:168:PHE:HD1	7:FG:217:TRP:CD2	2.38	0.42
12:FL:30:ILE:HD11	12:FL:37:LYS:NZ	2.35	0.42
1:AA:123:ARG:HG3	1:AA:193:ILE:HD11	2.01	0.42
1:AA:345:LEU:H	1:AA:345:LEU:HG	1.33	0.42
1:AA:530:TRP:CZ2	1:AA:607:VAL:HG21	2.55	0.42
1:AA:1342:PRO:HD2	2:AB:272:PRO:HG3	2.02	0.42
2:AB:452:ARG:HE	2:AB:452:ARG:HB2	1.64	0.42
2:AB:617:THR:OG1	2:AB:620:LEU:HD23	2.19	0.42
2:AB:656:LEU:HD21	2:AB:689:VAL:HG12	2.02	0.42
2:AB:848:ILE:H	2:AB:848:ILE:HG12	1.61	0.42
3:AC:101:ILE:C	3:AC:103:LEU:N	2.76	0.42
5:AE:116:ILE:HB	5:AE:121:MET:HE2	2.02	0.42
6:AF:100:GLN:HG2	7:AG:112:PRO:HB2	2.01	0.42
8:AH:47:PHE:O	8:AH:49:VAL:HG23	2.19	0.42
11:AK:89:CYS:HA	11:AK:104:ARG:O	2.20	0.42
1:BA:819:ASN:O	1:BA:822:THR:OG1	2.37	0.42
1:BA:859:ALA:HB1	1:BA:865:ASP:O	2.20	0.42
1:BA:1073:TYR:CE1	1:BA:1077:LEU:HD22	2.54	0.42
1:BA:1271:ILE:HG23	9:BI:50:THR:HG22	2.01	0.42
1:BA:1463:ASP:C	1:BA:1465:GLU:N	2.73	0.42
1:BA:1649:VAL:HG11	2:BB:1080:ILE:O	2.20	0.42
2:BB:572:PRO:CG	13:BM:70:SER:HB2	2.50	0.42
2:BB:575:HIS:NE2	13:BM:76:TYR:OH	2.45	0.42
2:BB:898:LEU:HA	2:BB:898:LEU:HD13	1.64	0.42
2:BB:1111:LEU:HD23	2:BB:1111:LEU:N	2.35	0.42
3:BC:48:ASP:OD2	3:BC:50:ARG:N	2.51	0.42
3:BC:67:PHE:HE1	3:BC:318:VAL:HA	1.84	0.42
3:BC:142:ARG:O	3:BC:144:PRO:HD3	2.19	0.42
5:BE:143:ASN:C	5:BE:145:THR:N	2.78	0.42
8:BH:108:SER:O	8:BH:109:LYS:C	2.63	0.42
10:BJ:2:ILE:HG13	10:BJ:55:ASP:OD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:119:LYS:O	11:BK:123:ASP:HB2	2.20	0.42
13:BM:23:VAL:HG11	14:BN:107:MET:HG3	2.01	0.42
1:CA:456:VAL:O	1:CA:460:LEU:HG	2.19	0.42
1:CA:462:LYS:HD3	1:CA:469:LYS:HZ2	1.84	0.42
1:CA:670:ILE:HD13	1:CA:670:ILE:N	2.34	0.42
1:CA:729:LYS:HD2	8:CH:120:GLY:CA	2.40	0.42
1:CA:892:LEU:HG	1:CA:893:ASP:OD1	2.19	0.42
1:CA:992:PRO:HG3	2:CB:984:TRP:CE2	2.54	0.42
1:CA:1227:MET:HB3	1:CA:1227:MET:HE2	1.60	0.42
1:CA:1342:PRO:HD2	2:CB:272:PRO:HG3	2.02	0.42
1:CA:1441:LYS:HA	1:CA:1444:ARG:HD2	2.00	0.42
1:CA:1646:LEU:HD12	1:CA:1646:LEU:HA	1.89	0.42
2:CB:35:PHE:O	2:CB:38:LEU:HD23	2.19	0.42
2:CB:347:LEU:HD13	2:CB:347:LEU:HA	1.66	0.42
2:CB:627:GLY:H	2:CB:642:LEU:HD22	1.84	0.42
2:CB:964:VAL:O	2:CB:965:GLU:C	2.62	0.42
2:CB:1158:ILE:HA	2:CB:1167:PHE:O	2.20	0.42
3:CC:67:PHE:O	3:CC:71:MET:HG2	2.19	0.42
3:CC:242:GLU:C	3:CC:244:ALA:N	2.77	0.42
3:CC:269:ASP:C	3:CC:271:ARG:H	2.26	0.42
7:CG:29:ASP:C	7:CG:31:LYS:N	2.76	0.42
7:CG:43:ILE:C	7:CG:43:ILE:HD12	2.44	0.42
7:CG:46:TYR:CD1	7:CG:117:TRP:HD1	2.37	0.42
7:CG:91:ASP:OD2	7:CG:103:LYS:HG2	2.19	0.42
14:CN:88:LYS:HD3	14:CN:90:MET:HE2	2.00	0.42
14:CN:139:VAL:HB	14:CN:140:SER:H	1.30	0.42
1:DA:118:TYR:CD2	1:DA:223:PHE:HD1	2.37	0.42
1:DA:1092:GLU:O	1:DA:1095:LEU:N	2.47	0.42
1:DA:1460:TYR:HA	1:DA:1472:PHE:HB3	2.02	0.42
1:DA:1472:PHE:O	1:DA:1473:LYS:HB3	2.18	0.42
2:DB:366:GLY:O	2:DB:368:GLN:N	2.53	0.42
2:DB:392:ASP:HB3	2:DB:399:HIS:NE2	2.35	0.42
2:DB:920:ARG:C	2:DB:921:HIS:CD2	2.98	0.42
2:DB:1153:ILE:HD12	2:DB:1154:ASP:N	2.34	0.42
3:DC:137:ASN:HD22	3:DC:137:ASN:N	2.18	0.42
3:DC:142:ARG:O	3:DC:144:PRO:HD3	2.19	0.42
3:DC:228:ARG:HG3	3:DC:299:ILE:HD12	2.01	0.42
4:DD:22:ILE:O	4:DD:23:HIS:ND1	2.52	0.42
5:DE:81:GLU:HG3	5:DE:82:PHE:N	2.34	0.42
7:DG:139:ILE:HD13	7:DG:139:ILE:HA	1.91	0.42
10:DJ:36:LEU:HD11	10:DJ:51:LEU:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:395:LEU:HD21	7:EO:280:PHE:CE2	2.55	0.42
1:EA:748:ASN:HD22	1:EA:748:ASN:H	1.65	0.42
1:EA:1142:ASP:O	1:EA:1145:GLU:N	2.52	0.42
1:EA:1617:THR:O	1:EA:1617:THR:OG1	2.37	0.42
2:EB:1093:LEU:HD11	2:EB:1179:PRO:HB3	2.00	0.42
3:EC:210:LEU:H	3:EC:210:LEU:HD12	1.85	0.42
5:EE:190:LEU:HA	5:EE:194:GLU:OE1	2.19	0.42
8:EH:100:THR:O	8:EH:116:TYR:HA	2.20	0.42
10:EJ:12:LYS:HD3	10:EJ:13:VAL:O	2.19	0.42
10:EJ:18:TRP:CZ2	10:EJ:53:HIS:HD2	2.38	0.42
1:FA:495:ILE:HG22	1:FA:604:LYS:O	2.19	0.42
1:FA:509:GLU:HG3	1:FA:579:ARG:CZ	2.49	0.42
1:FA:717:PRO:HD3	8:FH:79:TRP:CE3	2.54	0.42
1:FA:810:LEU:O	1:FA:813:LEU:N	2.50	0.42
1:FA:912:VAL:HA	1:FA:913:PRO:HA	1.76	0.42
1:FA:1216:THR:HB	1:FA:1221:ARG:HD3	2.01	0.42
2:FB:732:ALA:O	2:FB:736:ARG:HG3	2.19	0.42
3:FC:192:LEU:HD22	10:FJ:19:GLU:HG2	2.02	0.42
3:FC:254:GLY:O	3:FC:268:LYS:HB2	2.18	0.42
5:FE:164:LEU:HD12	5:FE:164:LEU:HA	1.79	0.42
7:FG:99:ASP:O	7:FG:100:THR:C	2.62	0.42
8:FH:3:ASN:N	8:FH:61:SER:HG	2.18	0.42
8:FH:5:LEU:CD2	8:FH:135:LEU:HD23	2.47	0.42
12:FL:64:LEU:HD12	12:FL:65:VAL:H	1.84	0.42
13:FM:82:ASN:HA	13:FM:83:PRO:HD2	1.90	0.42
14:FN:58:PHE:CD1	14:FN:58:PHE:N	2.87	0.42
1:AA:39:ASP:OD1	1:AA:41:LEU:N	2.52	0.42
1:AA:588:LEU:HA	1:AA:588:LEU:HD12	1.85	0.42
1:AA:967:PRO:O	2:AB:674:ILE:N	2.53	0.42
1:AA:1134:GLY:HA2	1:AA:1171:GLN:HG2	2.02	0.42
1:AA:1555:VAL:HG13	1:AA:1556:GLU:H	1.84	0.42
2:AB:59:GLY:O	2:AB:61:LEU:N	2.52	0.42
2:AB:470:LEU:N	2:AB:481:VAL:O	2.53	0.42
2:AB:885:VAL:HA	2:AB:903:ILE:HG22	2.01	0.42
14:AN:82:ILE:HB	14:AN:87:TYR:CE1	2.55	0.42
1:BA:87:ASN:HA	1:BA:88:PRO:HD2	1.85	0.42
1:BA:108:PHE:C	1:BA:110:LEU:H	2.28	0.42
1:BA:441:THR:C	1:BA:443:ALA:H	2.28	0.42
1:BA:913:PRO:HB3	1:BA:926:GLN:OE1	2.19	0.42
1:BA:1600:ARG:HB3	1:BA:1601:GLN:OE1	2.20	0.42
1:BA:1609:SER:O	1:BA:1612:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:94:LYS:HG2	2:BB:147:ASN:H	1.84	0.42
2:BB:362:LEU:HD23	2:BB:362:LEU:HA	1.77	0.42
2:BB:378:ILE:HG12	2:BB:378:ILE:H	1.56	0.42
2:BB:854:GLU:HG3	2:BB:875:HIS:HA	2.01	0.42
3:BC:48:ASP:CG	3:BC:50:ARG:H	2.27	0.42
3:BC:87:ASN:OD1	12:BL:60:ARG:HD3	2.19	0.42
5:BE:20:LYS:NZ	5:BE:37:LEU:HD22	2.34	0.42
1:CA:11:ILE:H	1:CA:11:ILE:HG13	1.63	0.42
1:CA:422:ARG:CD	7:CO:272:ILE:HB	2.48	0.42
1:CA:469:LYS:NZ	7:CO:314:THR:O	2.40	0.42
1:CA:481:ARG:HA	1:CA:633:MET:O	2.19	0.42
1:CA:957:VAL:HG13	1:CA:958:PRO:HD2	2.00	0.42
1:CA:1321:PHE:CD2	1:CA:1321:PHE:C	2.97	0.42
1:CA:1325:LEU:HD22	1:CA:1492:ILE:HG21	2.01	0.42
1:CA:1582:LEU:N	1:CA:1582:LEU:HD23	2.34	0.42
2:CB:202:LEU:HD13	2:CB:500:PHE:CE2	2.54	0.42
2:CB:480:GLN:OE1	2:CB:506:GLY:HA3	2.20	0.42
2:CB:731:VAL:HG13	10:CJ:60:PHE:CD1	2.55	0.42
2:CB:745:GLN:HA	2:CB:745:GLN:NE2	2.34	0.42
2:CB:979:GLN:OE1	2:CB:979:GLN:HA	2.19	0.42
2:CB:1143:THR:CG2	2:CB:1150:LYS:HD3	2.50	0.42
3:CC:112:MET:HE1	3:CC:182:CYS:SG	2.59	0.42
5:CE:52:ARG:HA	5:CE:53:PRO:HD3	1.82	0.42
6:CF:114:GLU:HG3	6:CF:120:ILE:HG13	2.01	0.42
7:CG:226:ASP:O	2:DB:434:ARG:NH1	2.53	0.42
1:DA:751:SER:OG	1:DA:752:LYS:N	2.53	0.42
1:DA:762:LYS:HE2	8:DH:27:GLU:OE2	2.18	0.42
1:DA:780:ILE:C	1:DA:781:LEU:HD23	2.45	0.42
1:DA:1060:GLU:O	1:DA:1063:MET:N	2.47	0.42
1:DA:1322:ILE:CG2	1:DA:1457:ILE:HD11	2.47	0.42
1:DA:1446:ARG:HG2	1:DA:1450:ILE:HD13	2.02	0.42
2:DB:45:HIS:H	2:DB:45:HIS:CD2	2.35	0.42
2:DB:71:LYS:HB3	2:DB:425:ILE:CD1	2.49	0.42
2:DB:184:LYS:HE2	2:DB:735:HIS:NE2	2.34	0.42
2:DB:358:VAL:O	2:DB:359:LEU:C	2.62	0.42
2:DB:824:HIS:O	2:DB:861:TYR:HB2	2.19	0.42
3:DC:101:ILE:C	3:DC:103:LEU:N	2.78	0.42
3:DC:216:HIS:O	3:DC:218:LYS:N	2.53	0.42
5:DE:70:SER:O	5:DE:73:PRO:HG3	2.19	0.42
5:DE:82:PHE:CZ	5:DE:111:VAL:HG21	2.54	0.42
5:DE:139:ALA:C	5:DE:141:VAL:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:DM:51:PHE:O	13:DM:66:THR:HG23	2.19	0.42
1:EA:191:MET:SD	1:EA:191:MET:C	3.03	0.42
1:EA:713:VAL:HB	1:EA:738:ASN:ND2	2.33	0.42
1:EA:1062:HIS:HD2	1:EA:1068:PHE:CD1	2.37	0.42
1:EA:1226:VAL:HG12	1:EA:1227:MET:N	2.35	0.42
1:EA:1226:VAL:HG22	1:EA:1598:PHE:CE1	2.55	0.42
1:EA:1307:ASP:O	1:EA:1499:ARG:NH1	2.46	0.42
2:EB:381:LEU:O	2:EB:385:VAL:HG23	2.20	0.42
2:EB:565:LEU:HD23	2:EB:565:LEU:HA	1.71	0.42
2:EB:871:ILE:HD13	2:EB:873:THR:HG22	2.00	0.42
3:EC:132:ILE:HG23	3:EC:132:ILE:HD12	1.79	0.42
3:EC:235:ILE:HG23	3:EC:289:VAL:HG22	2.02	0.42
5:EE:8:ASN:HA	5:EE:11:ARG:HG3	2.02	0.42
8:EH:93:TYR:N	8:EH:93:TYR:CD1	2.87	0.42
9:EI:121:PHE:HD1	9:EI:121:PHE:H	1.65	0.42
11:EK:45:GLU:H	11:EK:45:GLU:HG3	1.35	0.42
14:EN:129:ALA:HA	14:EN:130:PRO:HD3	1.93	0.42
1:FA:888:LYS:HG2	9:FI:67:VAL:CG2	2.49	0.42
1:FA:1275:THR:HG23	1:FA:1289:SER:OG	2.19	0.42
1:FA:1295:ARG:HA	1:FA:1468:LYS:O	2.20	0.42
2:FB:617:THR:HB	2:FB:620:LEU:HD23	2.02	0.42
2:FB:774:ALA:HA	2:FB:1028:VAL:HG12	2.01	0.42
3:FC:228:ARG:HG3	3:FC:299:ILE:HD12	2.01	0.42
6:FF:79:ARG:HB3	6:FF:146:TRP:CZ2	2.54	0.42
8:FH:103:LYS:O	8:FH:104:PHE:HD1	2.03	0.42
12:FL:31:CYS:HA	12:FL:56:LEU:HD23	2.02	0.42
14:FN:57:LYS:HD3	14:FN:138:SER:OG	2.20	0.42
1:AA:59:ARG:CZ	7:AO:298:PRO:HB3	2.50	0.42
1:AA:522:ALA:O	1:AA:525:ASN:N	2.53	0.42
1:AA:715:LEU:HD22	1:AA:715:LEU:HA	1.87	0.42
1:AA:993:GLN:CG	2:AB:676:VAL:HG21	2.50	0.42
1:AA:1002:GLY:O	1:AA:1006:LEU:HG	2.20	0.42
1:AA:1237:GLN:HB3	1:AA:1520:VAL:CG1	2.49	0.42
1:AA:1654:PHE:HE2	6:AF:92:ARG:HD3	1.84	0.42
2:AB:492:ASN:OD1	2:AB:494:TYR:HB2	2.19	0.42
2:AB:495:ARG:HA	2:AB:723:LYS:HG2	2.02	0.42
2:AB:795:GLU:O	3:AC:99:HIS:CE1	2.72	0.42
2:AB:885:VAL:C	2:AB:886:ASN:HD22	2.28	0.42
3:AC:53:ASN:ND2	3:AC:300:PHE:O	2.52	0.42
4:AD:88:GLN:NE2	4:AD:91:ARG:HH21	2.17	0.42
5:AE:79:TRP:CD1	5:AE:79:TRP:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:49:LEU:HG	7:AG:50:ALA:O	2.20	0.42
14:AN:55:LEU:HD22	14:AN:133:PHE:CE2	2.55	0.42
1:BA:126:GLN:NE2	1:BA:340:HIS:O	2.48	0.42
1:BA:456:VAL:O	1:BA:459:ALA:HB3	2.19	0.42
1:BA:794:VAL:HG23	1:BA:795:HIS:N	2.26	0.42
2:BB:137:LEU:HD23	2:BB:161:LEU:HD23	2.01	0.42
2:BB:302:LEU:HD11	2:BB:379:ARG:NH1	2.34	0.42
2:BB:745:GLN:NE2	2:BB:745:GLN:HA	2.35	0.42
3:BC:201:GLU:C	3:BC:202:ILE:HD12	2.45	0.42
7:BG:158:LYS:HE3	7:BG:246:ASP:OD1	2.19	0.42
10:BJ:6:ARG:HB3	10:BJ:11:GLY:O	2.19	0.42
11:BK:77:ARG:HG3	11:BK:78:TYR:N	2.35	0.42
7:BO:274:SER:O	7:BO:277:LYS:N	2.52	0.42
1:CA:362:VAL:HA	1:CA:363:PRO:HD3	1.91	0.42
1:CA:441:THR:C	1:CA:443:ALA:H	2.27	0.42
1:CA:713:VAL:HG12	1:CA:714:THR:N	2.34	0.42
1:CA:733:THR:HG23	1:CA:774:GLY:O	2.19	0.42
1:CA:804:GLU:H	1:CA:804:GLU:CD	2.18	0.42
1:CA:1078:LYS:HD2	1:CA:1078:LYS:HA	1.69	0.42
1:CA:1241:PRO:HG3	1:CA:1540:GLY:CA	2.50	0.42
1:CA:1294:MET:SD	1:CA:1294:MET:N	2.92	0.42
2:CB:53:THR:HA	2:CB:59:GLY:HA3	2.01	0.42
2:CB:66:LYS:C	2:CB:68:ILE:N	2.78	0.42
2:CB:161:LEU:HD12	2:CB:162:PRO:CD	2.46	0.42
2:CB:164:MET:HE2	2:CB:193:TYR:O	2.19	0.42
3:CC:253:PRO:HD2	14:CN:180:PHE:CE1	2.55	0.42
10:CJ:39:LEU:HA	10:CJ:39:LEU:HD23	1.80	0.42
13:CM:23:VAL:HB	13:CM:95:VAL:HG22	2.02	0.42
1:DA:391:THR:O	1:DA:395:LEU:HG	2.20	0.42
1:DA:693:GLN:CD	11:DK:88:PHE:HA	2.45	0.42
1:DA:1006:LEU:HD21	9:DI:100:GLN:HE21	1.85	0.42
1:DA:1193:VAL:O	1:DA:1196:PRO:HD2	2.20	0.42
1:DA:1261:VAL:HA	1:DA:1265:GLU:OE2	2.19	0.42
1:DA:1555:VAL:HG13	1:DA:1556:GLU:H	1.85	0.42
1:DA:1603:MET:HE3	1:DA:1603:MET:HB3	1.69	0.42
2:DB:472:SER:OG	2:DB:473:GLN:N	2.51	0.42
2:DB:475:GLY:C	2:DB:477:ASP:N	2.78	0.42
2:DB:627:GLY:H	2:DB:642:LEU:HD22	1.84	0.42
2:DB:745:GLN:HA	2:DB:745:GLN:NE2	2.33	0.42
2:DB:998:GLU:O	2:DB:1001:ALA:N	2.53	0.42
3:DC:146:ALA:O	3:DC:148:LYS:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DF:99:LEU:HB3	7:DG:112:PRO:HD3	2.02	0.42
6:DF:129:LYS:HD3	6:DF:129:LYS:HA	1.79	0.42
7:DG:71:MET:HE1	7:DG:152:ALA:HB1	2.02	0.42
7:DG:100:THR:C	7:DG:102:GLU:H	2.27	0.42
7:DO:284:VAL:HG13	7:DO:288:ASN:ND2	2.35	0.42
1:EA:589:MET:SD	1:EA:635:MET:HE3	2.59	0.42
1:EA:709:ARG:C	1:EA:711:LYS:N	2.73	0.42
1:EA:939:ASN:HB3	2:EB:958:MET:HE3	2.02	0.42
1:EA:999:CYS:O	1:EA:1003:ARG:HB3	2.20	0.42
1:EA:1273:THR:HA	9:EI:48:VAL:HG22	2.02	0.42
1:EA:1321:PHE:HD2	1:EA:1322:ILE:HD13	1.85	0.42
2:EB:215:MET:HE3	2:EB:394:PRO:HB3	2.00	0.42
2:EB:1086:PHE:O	2:EB:1089:GLN:N	2.53	0.42
3:EC:62:SER:HB2	11:EK:74:ASN:OD1	2.20	0.42
3:EC:211:GLY:HA3	3:EC:219:PHE:CZ	2.55	0.42
7:EG:39:VAL:O	7:EG:123:TYR:HA	2.20	0.42
7:EG:43:ILE:HD12	7:EG:43:ILE:C	2.45	0.42
8:EH:50:ALA:O	8:EH:53:ASP:HB2	2.20	0.42
8:EH:108:SER:O	8:EH:110:ASP:N	2.52	0.42
12:EL:53:HIS:C	12:EL:55:ILE:H	2.21	0.42
1:FA:132:GLU:HG2	1:FA:192:ALA:HB1	2.00	0.42
1:FA:1008:ASP:OD1	2:FB:515:THR:HG21	2.20	0.42
1:FA:1344:ILE:HG23	2:FB:271:VAL:HG22	2.01	0.42
1:FA:1582:LEU:HA	1:FA:1585:ILE:HG13	2.00	0.42
2:FB:35:PHE:O	2:FB:38:LEU:HD23	2.20	0.42
2:FB:301:PHE:O	2:FB:305:ARG:HG2	2.18	0.42
2:FB:876:SER:C	2:FB:878:GLU:N	2.78	0.42
2:FB:915:ASP:OD1	2:FB:1038:HIS:ND1	2.53	0.42
3:FC:110:PRO:HG3	3:FC:308:MET:HE2	2.01	0.42
3:FC:136:LEU:HD12	3:FC:137:ASN:N	2.35	0.42
3:FC:137:ASN:CG	3:FC:203:SER:HB2	2.44	0.42
4:FD:19:PRO:HB3	7:FG:46:TYR:O	2.20	0.42
4:FD:85:SER:O	4:FD:88:GLN:N	2.47	0.42
6:FF:136:ARG:O	6:FF:143:PHE:HB2	2.19	0.42
9:FI:95:ASN:O	9:FI:96:TYR:HB3	2.20	0.42
10:FJ:12:LYS:HD3	10:FJ:13:VAL:O	2.20	0.42
11:FK:69:ASP:HB2	11:FK:70:HIS:H	1.72	0.42
1:AA:52:LEU:C	1:AA:54:LEU:N	2.78	0.42
1:AA:121:LYS:O	1:AA:124:LEU:N	2.53	0.42
1:AA:422:ARG:HD2	7:AO:270:LEU:O	2.20	0.42
1:AA:1056:ASP:OD1	1:AA:1058:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1242:ILE:CD1	1:AA:1517:ARG:HB3	2.49	0.42
1:AA:1326:GLU:HG2	1:AA:1456:PHE:HD2	1.85	0.42
2:AB:28:PRO:HA	2:AB:29:PRO:HD3	1.92	0.42
2:AB:264:TRP:CD1	2:AB:264:TRP:C	2.98	0.42
2:AB:665:GLY:N	2:AB:668:GLU:OE1	2.47	0.42
2:AB:894:LYS:HB2	2:AB:894:LYS:HE3	1.86	0.42
2:AB:1189:LEU:HD22	2:AB:1189:LEU:HA	1.66	0.42
3:AC:88:ASN:O	12:AL:60:ARG:NH1	2.46	0.42
7:AG:122:LEU:HD22	7:AG:122:LEU:HA	1.87	0.42
7:AG:144:HIS:HA	7:AG:157:ILE:O	2.20	0.42
8:AH:108:SER:O	8:AH:109:LYS:C	2.63	0.42
9:AI:111:PHE:HA	9:AI:121:PHE:O	2.19	0.42
12:AL:40:LEU:HD23	12:AL:40:LEU:HA	1.84	0.42
13:AM:59:ARG:HG3	13:AM:60:LEU:HG	2.02	0.42
1:BA:457:LYS:C	1:BA:459:ALA:N	2.76	0.42
1:BA:505:LEU:HD13	1:BA:637:PHE:HB2	2.00	0.42
1:BA:569:SER:OG	1:BA:570:THR:HG23	2.19	0.42
1:BA:646:GLU:C	1:BA:648:LEU:H	2.26	0.42
1:BA:670:ILE:N	1:BA:670:ILE:HD13	2.34	0.42
1:BA:1007:ILE:O	1:BA:1011:VAL:HB	2.20	0.42
1:BA:1258:ILE:HD11	1:BA:1507:CYS:CB	2.50	0.42
1:BA:1344:ILE:HG22	2:BB:334:PHE:HE2	1.85	0.42
2:BB:70:GLU:HG2	2:BB:97:VAL:C	2.44	0.42
2:BB:98:SER:O	2:BB:141:LEU:HD12	2.20	0.42
2:BB:550:ARG:O	2:BB:551:ILE:HD13	2.19	0.42
2:BB:748:GLN:HB3	10:BJ:52:THR:OG1	2.19	0.42
2:BB:1076:ARG:O	2:BB:1080:ILE:HG13	2.20	0.42
3:BC:113:LEU:HD11	3:BC:130:ASN:C	2.45	0.42
3:BC:173:GLY:C	3:BC:175:GLN:N	2.78	0.42
4:BD:23:HIS:O	7:BG:44:ALA:N	2.38	0.42
13:BM:16:GLN:CB	13:BM:91:TYR:HA	2.50	0.42
7:BO:266:GLN:O	7:BO:269:SER:N	2.49	0.42
1:CA:36:THR:HG22	1:CA:37:VAL:N	2.35	0.42
1:CA:423:LEU:HD23	1:CA:423:LEU:HA	1.91	0.42
1:CA:462:LYS:HD3	1:CA:469:LYS:NZ	2.34	0.42
1:CA:527:PRO:HG3	1:CA:534:THR:HA	2.01	0.42
1:CA:1263:LEU:C	1:CA:1265:GLU:N	2.77	0.42
1:CA:1291:VAL:HG12	1:CA:1292:ILE:H	1.83	0.42
1:CA:1658:ALA:O	7:CG:104:LEU:HA	2.20	0.42
2:CB:152:LEU:HB3	2:CB:443:LYS:HZ2	1.84	0.42
2:CB:257:GLN:HG3	2:CB:316:ARG:HH22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:274:VAL:HG11	2:CB:313:PHE:HB2	2.01	0.42
2:CB:322:ASN:O	2:CB:326:VAL:HG23	2.20	0.42
2:CB:415:GLU:O	2:CB:418:ASP:HB3	2.20	0.42
2:CB:573:ALA:HA	2:CB:576:THR:HB	2.02	0.42
2:CB:800:TYR:CD2	2:CB:800:TYR:C	2.98	0.42
2:CB:852:VAL:HG22	2:CB:856:ASP:HB3	2.02	0.42
3:CC:101:ILE:H	3:CC:101:ILE:HG12	1.40	0.42
8:CH:30:SER:OG	8:CH:33:GLN:N	2.43	0.42
1:DA:103:LEU:HD11	1:DA:243:PHE:HZ	1.85	0.42
1:DA:671:GLN:C	2:DB:952:HIS:CD2	2.97	0.42
1:DA:702:PRO:HB2	11:DK:53:ALA:HB1	2.01	0.42
1:DA:1007:ILE:O	1:DA:1011:VAL:HB	2.19	0.42
1:DA:1066:PHE:HA	1:DA:1069:CYS:HB2	2.02	0.42
1:DA:1067:GLU:O	1:DA:1069:CYS:N	2.53	0.42
1:DA:1081:ASN:ND2	1:DA:1084:ALA:HB2	2.35	0.42
2:DB:714:ARG:HA	2:DB:714:ARG:HD3	1.74	0.42
2:DB:985:ILE:H	2:DB:985:ILE:HG12	1.56	0.42
3:DC:67:PHE:CE1	3:DC:318:VAL:HG22	2.55	0.42
3:DC:86:PHE:CE2	3:DC:205:LYS:HE3	2.55	0.42
3:DC:136:LEU:HD22	3:DC:167:LEU:HA	2.00	0.42
3:DC:193:LEU:HA	3:DC:193:LEU:HD12	1.82	0.42
3:DC:273:ASP:CG	3:DC:275:VAL:H	2.28	0.42
5:DE:15:ALA:HB1	5:DE:140:LEU:HB2	2.02	0.42
6:DF:118:LEU:HD13	6:DF:118:LEU:HA	1.73	0.42
13:DM:30:PHE:HE1	13:DM:62:TYR:HE2	1.67	0.42
1:EA:324:LEU:HD23	1:EA:324:LEU:HA	1.81	0.42
1:EA:407:GLN:H	1:EA:407:GLN:HG2	1.55	0.42
1:EA:484:ILE:HG21	1:EA:633:MET:HG3	2.02	0.42
1:EA:509:GLU:HG3	1:EA:579:ARG:CZ	2.50	0.42
1:EA:509:GLU:HG3	1:EA:579:ARG:NH2	2.35	0.42
1:EA:773:ASP:OD2	1:EA:773:ASP:N	2.53	0.42
1:EA:1059:LYS:NZ	1:EA:1178:LEU:O	2.40	0.42
1:EA:1243:TRP:HA	1:EA:1243:TRP:CE3	2.55	0.42
1:EA:1263:LEU:C	1:EA:1265:GLU:N	2.73	0.42
1:EA:1584:LEU:O	1:EA:1585:ILE:C	2.63	0.42
2:EB:38:LEU:O	2:EB:40:GLU:N	2.53	0.42
2:EB:215:MET:CE	2:EB:394:PRO:HB3	2.49	0.42
2:EB:480:GLN:OE1	2:EB:506:GLY:HA3	2.20	0.42
2:EB:774:ALA:HA	2:EB:1028:VAL:CG1	2.50	0.42
2:EB:847:TYR:O	2:EB:882:ILE:HD12	2.19	0.42
2:EB:1011:GLU:HA	2:EB:1012:PRO:HD3	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:67:PHE:O	3:EC:71:MET:HG2	2.20	0.42
3:EC:102:GLY:HA3	12:EL:69:ALA:CB	2.50	0.42
5:EE:46:TYR:HD2	5:EE:57:MET:HB2	1.85	0.42
7:EG:106:LYS:O	7:EG:107:ILE:HD13	2.20	0.42
8:EH:46:LEU:HD23	8:EH:46:LEU:HA	1.70	0.42
13:EM:22:ALA:O	14:EN:109:LEU:HD12	2.20	0.42
14:EN:163:VAL:O	14:EN:166:LEU:HD11	2.20	0.42
1:FA:36:THR:HG22	1:FA:37:VAL:N	2.35	0.42
1:FA:1102:LEU:CD1	1:FA:1105:ARG:HH21	2.32	0.42
2:FB:219:ARG:HG2	2:FB:221:SER:HB3	2.01	0.42
2:FB:347:LEU:HD13	2:FB:347:LEU:HA	1.75	0.42
2:FB:658:LEU:HB3	2:FB:659:ASP:H	1.44	0.42
2:FB:768:GLY:C	2:FB:769:PHE:CD2	2.98	0.42
2:FB:834:LYS:O	2:FB:837:LEU:N	2.43	0.42
2:FB:898:LEU:HA	2:FB:898:LEU:HD13	1.72	0.42
2:FB:1073:GLU:O	2:FB:1076:ARG:HB3	2.19	0.42
5:FE:153:HIS:N	5:FE:153:HIS:ND1	2.67	0.42
12:FL:33:GLU:HG3	12:FL:53:HIS:ND1	2.35	0.42
1:AA:211:THR:O	1:AA:212:VAL:C	2.62	0.42
1:AA:1159:ASP:C	1:AA:1161:VAL:H	2.28	0.42
1:AA:1337:LYS:HE2	1:AA:1337:LYS:HB3	1.76	0.42
1:AA:1344:ILE:HD13	2:AB:329:TYR:CE2	2.55	0.42
1:AA:1437:ASN:OD1	1:AA:1439:MET:HE3	2.19	0.42
1:AA:1621:PHE:O	1:AA:1624:LYS:HB2	2.20	0.42
1:AA:1646:LEU:HD12	1:AA:1646:LEU:HA	1.83	0.42
2:AB:22:GLU:O	2:AB:26:ILE:HG13	2.19	0.42
2:AB:203:ILE:H	2:AB:203:ILE:CD1	2.26	0.42
2:AB:206:LEU:HD23	2:AB:206:LEU:HA	1.91	0.42
2:AB:542:LEU:HD23	2:AB:542:LEU:HA	1.92	0.42
2:AB:617:THR:O	2:AB:620:LEU:HB3	2.20	0.42
2:AB:944:GLN:HA	2:AB:945:PRO:HD3	1.74	0.42
2:AB:1157:GLN:HB3	2:AB:1168:VAL:HG12	2.00	0.42
3:AC:233:ILE:HA	3:AC:233:ILE:HD13	1.72	0.42
7:AG:46:TYR:HD1	7:AG:117:TRP:HD1	1.67	0.42
10:AJ:16:ASP:C	10:AJ:18:TRP:H	2.28	0.42
11:AK:83:ASN:C	11:AK:85:ASP:H	2.27	0.42
1:BA:509:GLU:HG3	1:BA:579:ARG:CZ	2.49	0.42
1:BA:1063:MET:HE2	1:BA:1063:MET:HB3	1.74	0.42
1:BA:1474:LEU:HD22	1:BA:1474:LEU:HA	1.76	0.42
2:BB:187:SER:CB	10:BJ:59:LYS:HZ3	2.33	0.42
2:BB:904:LYS:C	2:BB:905:TYR:CD1	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:209:ILE:H	3:BC:209:ILE:HD13	1.85	0.42
3:BC:228:ARG:HG3	3:BC:299:ILE:HD12	2.01	0.42
6:BF:65:ARG:HB3	6:BF:65:ARG:NH1	2.35	0.42
1:CA:589:MET:SD	1:CA:635:MET:HG3	2.59	0.42
1:CA:819:ASN:O	1:CA:822:THR:OG1	2.32	0.42
1:CA:893:ASP:OD2	1:CA:956:ARG:N	2.38	0.42
2:CB:501:ARG:HH21	2:CB:545:PHE:HB2	1.84	0.42
2:CB:655:TYR:CZ	2:CB:657:PRO:HG2	2.54	0.42
2:CB:964:VAL:C	2:CB:966:SER:H	2.27	0.42
2:CB:1151:ILE:HG22	2:CB:1152:PHE:N	2.34	0.42
8:CH:103:LYS:HB3	8:CH:115:TYR:HB2	2.02	0.42
9:CI:37:TYR:HA	9:CI:38:PRO:HD2	1.90	0.42
13:CM:76:TYR:CE1	14:CN:57:LYS:HG3	2.54	0.42
1:DA:53:ALA:O	1:DA:54:LEU:HD23	2.20	0.42
1:DA:86:TYR:CE1	1:DA:251:ILE:HD12	2.55	0.42
1:DA:113:VAL:O	1:DA:116:HIS:HB3	2.19	0.42
1:DA:816:LEU:HG	1:DA:817:PHE:HD1	1.84	0.42
1:DA:882:ILE:HD11	9:DI:67:VAL:HG11	2.02	0.42
1:DA:913:PRO:HB3	1:DA:926:GLN:OE1	2.20	0.42
1:DA:1323:HIS:CD2	1:DA:1454:HIS:HD2	2.37	0.42
1:DA:1596:LEU:HD22	1:DA:1602:GLY:HA2	2.01	0.42
2:DB:78:PRO:HB3	2:DB:90:TYR:CE2	2.55	0.42
2:DB:184:LYS:HE2	2:DB:735:HIS:CD2	2.55	0.42
2:DB:727:GLY:HA3	2:DB:767:ASN:OD1	2.20	0.42
2:DB:768:GLY:HA3	2:DB:1032:TYR:CZ	2.54	0.42
13:DM:36:THR:HG23	13:DM:57:ASN:ND2	2.35	0.42
1:EA:113:VAL:HG22	1:EA:182:LYS:CE	2.50	0.42
1:EA:127:TYR:CD1	1:EA:202:THR:HG21	2.54	0.42
1:EA:552:GLU:O	1:EA:553:GLN:C	2.63	0.42
1:EA:603:HIS:NE2	1:EA:624:TYR:OH	2.46	0.42
1:EA:713:VAL:HG12	1:EA:714:THR:H	1.84	0.42
1:EA:852:ASP:O	1:EA:853:THR:C	2.63	0.42
1:EA:912:VAL:HA	1:EA:913:PRO:HA	1.86	0.42
1:EA:1028:GLU:C	1:EA:1030:VAL:H	2.28	0.42
1:EA:1261:VAL:O	1:EA:1498:ILE:HB	2.20	0.42
1:EA:1649:VAL:O	1:EA:1652:GLY:N	2.45	0.42
2:EB:479:GLN:H	2:EB:479:GLN:HG2	1.71	0.42
2:EB:589:ASP:HA	2:EB:643:PHE:HD1	1.85	0.42
2:EB:617:THR:O	2:EB:620:LEU:HB3	2.19	0.42
2:EB:662:ASP:CG	2:EB:663:ILE:H	2.28	0.42
2:EB:678:PRO:HB2	2:EB:679:GLN:NE2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:1150:LYS:N	2:EB:1150:LYS:HD3	2.35	0.42
7:EG:104:LEU:O	7:EG:105:ILE:HD12	2.20	0.42
7:EG:155:ALA:HA	7:EG:245:VAL:HB	2.02	0.42
8:EH:101:ALA:HB2	8:EH:116:TYR:HE1	1.83	0.42
13:EM:38:PHE:O	14:EN:118:SER:HA	2.20	0.42
1:FA:363:PRO:HB3	2:FB:1187:SER:OG	2.19	0.42
1:FA:484:ILE:HG13	1:FA:628:PHE:CE1	2.54	0.42
1:FA:585:ASP:HA	1:FA:644:ARG:NH1	2.35	0.42
1:FA:758:GLU:C	1:FA:760:TRP:N	2.77	0.42
1:FA:1336:GLN:C	1:FA:1338:ARG:H	2.28	0.42
1:FA:1646:LEU:HD12	1:FA:1646:LEU:HA	1.85	0.42
2:FB:107:PRO:HG2	2:FB:133:TYR:CZ	2.54	0.42
2:FB:151:ASN:OD1	2:FB:151:ASN:N	2.52	0.42
2:FB:210:ARG:HH21	2:FB:667:PHE:HB2	1.85	0.42
2:FB:262:PHE:CD1	2:FB:357:ILE:HG12	2.55	0.42
3:FC:113:LEU:HD11	3:FC:130:ASN:C	2.45	0.42
4:FD:24:ALA:HA	7:FG:43:ILE:HG22	2.02	0.42
4:FD:94:ARG:NH1	4:FD:100:PRO:HG2	2.34	0.42
5:FE:17:ARG:NH1	5:FE:36:GLU:HA	2.34	0.42
5:FE:143:ASN:C	5:FE:145:THR:N	2.77	0.42
6:FF:116:ASP:OD1	6:FF:118:LEU:N	2.43	0.42
8:FH:98:TYR:CD2	8:FH:98:TYR:C	2.98	0.42
13:FM:51:PHE:O	13:FM:66:THR:HG23	2.20	0.42
1:AA:314:TYR:CD2	1:AA:424:MET:HG3	2.55	0.42
1:AA:955:ARG:HB3	1:AA:955:ARG:HH11	1.85	0.42
1:AA:985:ARG:HG2	1:AA:988:SER:H	1.85	0.42
1:AA:1175:MET:HB3	1:AA:1175:MET:HE2	1.70	0.42
1:AA:1191:GLN:C	1:AA:1193:VAL:H	2.27	0.42
1:AA:1226:VAL:HG22	1:AA:1598:PHE:CE1	2.55	0.42
1:AA:1272:VAL:CG1	1:AA:1273:THR:H	2.31	0.42
1:AA:1474:LEU:HD22	1:AA:1474:LEU:HA	1.75	0.42
1:AA:1488:ILE:H	1:AA:1488:ILE:HG13	1.54	0.42
1:AA:1619:CYS:O	1:AA:1622:LEU:HB3	2.20	0.42
2:AB:122:TYR:CE2	2:AB:183:HIS:CD2	3.07	0.42
3:AC:181:ASP:O	3:AC:183:PRO:HD3	2.20	0.42
7:AG:50:ALA:HB1	7:AG:52:MET:HG2	2.00	0.42
8:AH:118:PHE:CD2	8:AH:118:PHE:N	2.88	0.42
13:AM:77:VAL:O	14:AN:55:LEU:HD12	2.20	0.42
7:AO:265:SER:HG	7:AO:268:GLU:H	1.68	0.42
1:BA:966:LEU:CG	1:BA:968:SER:H	2.28	0.42
1:BA:1176:ARG:CD	6:BF:84:TYR:CE1	3.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1226:VAL:HG12	1:BA:1227:MET:N	2.35	0.42
1:BA:1258:ILE:O	1:BA:1501:ILE:HG13	2.19	0.42
1:BA:1323:HIS:CD2	1:BA:1454:HIS:CD2	3.08	0.42
1:BA:1460:TYR:HA	1:BA:1472:PHE:HB3	2.00	0.42
2:BB:216:ALA:C	2:BB:217:ILE:HD12	2.45	0.42
2:BB:376:PHE:HB2	2:BB:592:ILE:HD11	2.01	0.42
2:BB:527:PHE:CE2	2:BB:651:ARG:HD3	2.55	0.42
2:BB:655:TYR:HD1	2:BB:688:HIS:HE2	1.67	0.42
2:BB:1053:ASN:ND2	2:BB:1054:SER:N	2.68	0.42
3:BC:53:ASN:ND2	3:BC:300:PHE:O	2.53	0.42
4:BD:93:GLN:HG3	4:BD:94:ARG:N	2.35	0.42
7:BG:80:VAL:HG12	7:BG:82:LEU:CD2	2.49	0.42
14:BN:80:MET:HE3	14:BN:80:MET:HB2	1.63	0.42
1:CA:82:PRO:HD3	1:CA:393:SER:OG	2.19	0.42
1:CA:597:LYS:HB2	2:CB:1082:HIS:NE2	2.35	0.42
1:CA:756:LYS:HD3	9:CI:92:GLU:OE1	2.19	0.42
1:CA:1007:ILE:O	1:CA:1011:VAL:HB	2.19	0.42
1:CA:1274:GLU:O	9:CI:46:LYS:HA	2.19	0.42
2:CB:366:GLY:O	2:CB:367:SER:C	2.63	0.42
2:CB:662:ASP:O	2:CB:663:ILE:HB	2.19	0.42
2:CB:716:MET:O	2:CB:719:CYS:HB2	2.19	0.42
2:CB:959:THR:O	2:CB:961:GLY:N	2.53	0.42
3:CC:230:LEU:HD12	3:CC:231:PRO:CD	2.49	0.42
5:CE:213:ILE:HD13	5:CE:214:CYS:C	2.45	0.42
9:CI:113:THR:HG23	9:CI:120:LYS:HB3	2.00	0.42
14:CN:63:ASP:OD1	14:CN:65:SER:OG	2.37	0.42
1:DA:98:LEU:HA	1:DA:324:LEU:HD21	2.01	0.42
1:DA:191:MET:SD	1:DA:191:MET:C	3.03	0.42
1:DA:484:ILE:HG21	1:DA:633:MET:HG3	2.02	0.42
1:DA:1235:THR:HA	1:DA:1236:PRO:HD2	1.95	0.42
2:DB:216:ALA:C	2:DB:217:ILE:HD12	2.44	0.42
2:DB:290:ASP:C	2:DB:292:ILE:N	2.77	0.42
2:DB:548:LYS:HA	2:DB:550:ARG:CZ	2.50	0.42
2:DB:561:ILE:HD11	2:DB:619:GLY:O	2.19	0.42
2:DB:663:ILE:HA	2:DB:663:ILE:HD12	1.54	0.42
3:DC:248:GLN:HG3	3:DC:256:ILE:O	2.20	0.42
3:DC:333:ILE:HD11	11:DK:49:LEU:N	2.35	0.42
4:DD:21:VAL:O	4:DD:22:ILE:HD13	2.20	0.42
5:DE:159:ASP:O	5:DE:163:GLU:HG2	2.19	0.42
5:DE:175:LEU:HD22	5:DE:175:LEU:HA	1.61	0.42
6:DF:84:TYR:C	6:DF:151:LEU:HD13	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:DM:14:SER:O	13:DM:90:LEU:N	2.50	0.42
14:DN:55:LEU:HD22	14:DN:133:PHE:CE2	2.54	0.42
1:EA:363:PRO:HA	1:EA:364:PRO:HD3	1.91	0.42
1:EA:569:SER:OG	1:EA:570:THR:HG23	2.19	0.42
1:EA:780:ILE:C	1:EA:781:LEU:HD23	2.45	0.42
1:EA:815:ARG:HH11	1:EA:815:ARG:HD2	1.74	0.42
1:EA:1457:ILE:HA	1:EA:1474:LEU:HD22	2.02	0.42
1:EA:1662:ASN:HB3	7:EG:57:PRO:CD	2.49	0.42
2:EB:54:GLU:HB3	2:EB:55:GLY:H	1.64	0.42
2:EB:203:ILE:H	2:EB:203:ILE:HD12	1.84	0.42
2:EB:206:LEU:HD23	2:EB:206:LEU:HA	1.89	0.42
2:EB:322:ASN:O	2:EB:326:VAL:HG23	2.20	0.42
2:EB:652:PRO:O	2:EB:653:VAL:HG13	2.20	0.42
2:EB:776:ILE:HD12	2:EB:777:SER:H	1.84	0.42
2:EB:876:SER:C	2:EB:878:GLU:N	2.77	0.42
6:EF:83:PRO:O	6:EF:151:LEU:HD22	2.20	0.42
7:EG:67:ASN:O	7:EG:70:VAL:HG23	2.20	0.42
7:EG:132:VAL:CG2	7:EG:232:THR:HB	2.49	0.42
7:EG:158:LYS:O	7:EG:162:ILE:HG13	2.20	0.42
11:EK:50:LEU:O	11:EK:54:THR:HG23	2.20	0.42
13:EM:23:VAL:HG13	14:EN:108:THR:O	2.20	0.42
14:EN:55:LEU:HB3	14:EN:136:VAL:CG2	2.50	0.42
1:FA:425:ASN:HD21	7:FO:274:SER:HB2	1.85	0.42
1:FA:852:ASP:O	1:FA:853:THR:C	2.63	0.42
1:FA:928:MET:HE2	1:FA:928:MET:HB2	1.93	0.42
1:FA:1130:ALA:HB1	6:FF:82:THR:HB	2.02	0.42
1:FA:1148:LEU:HD11	1:FA:1167:ARG:HB2	2.00	0.42
1:FA:1321:PHE:HD2	1:FA:1322:ILE:HD13	1.85	0.42
2:FB:68:ILE:HD13	2:FB:68:ILE:HA	1.68	0.42
2:FB:169:ARG:HD3	2:FB:169:ARG:HA	1.82	0.42
2:FB:286:ARG:NH2	13:FM:28:LYS:HD2	2.34	0.42
2:FB:1053:ASN:ND2	2:FB:1054:SER:N	2.67	0.42
3:FC:146:ALA:O	3:FC:148:LYS:N	2.52	0.42
5:FE:213:ILE:HD13	5:FE:214:CYS:N	2.35	0.42
7:FG:139:ILE:O	7:FG:140:GLN:HG3	2.20	0.42
7:FG:145:ILE:HB	7:FG:157:ILE:HB	2.02	0.42
8:FH:5:LEU:CB	8:FH:60:ALA:HA	2.41	0.42
13:FM:59:ARG:O	13:FM:60:LEU:HD23	2.20	0.42
1:AA:859:ALA:HB1	1:AA:865:ASP:O	2.20	0.41
1:AA:1159:ASP:O	1:AA:1161:VAL:HG23	2.20	0.41
1:AA:1291:VAL:HA	1:AA:1473:LYS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:23:SER:HA	2:AB:26:ILE:CD1	2.50	0.41
2:AB:1119:ARG:HD2	2:AB:1119:ARG:HA	1.61	0.41
3:AC:61:THR:HA	3:AC:298:PHE:CZ	2.54	0.41
3:AC:253:PRO:C	3:AC:255:VAL:N	2.78	0.41
7:AG:137:ILE:HD11	7:AG:229:LEU:HB2	2.02	0.41
8:AH:138:GLU:HB2	8:AH:139:ASN:H	1.67	0.41
1:BA:966:LEU:HD11	1:BA:968:SER:HB3	2.02	0.41
1:BA:1038:ILE:HB	1:BA:1047:GLN:HB2	2.01	0.41
1:BA:1102:LEU:HD12	1:BA:1102:LEU:HA	1.65	0.41
1:BA:1546:VAL:O	1:BA:1549:VAL:N	2.53	0.41
2:BB:190:ILE:HD12	2:BB:497:ILE:HD11	2.02	0.41
2:BB:215:MET:O	2:BB:234:ILE:HD13	2.19	0.41
2:BB:637:TYR:HA	2:BB:638:PRO:HD3	1.83	0.41
2:BB:785:ASP:HB3	2:BB:957:ARG:HH22	1.85	0.41
2:BB:803:MET:HE3	2:BB:805:LYS:HD2	2.02	0.41
2:BB:971:ALA:O	2:BB:973:ALA:N	2.53	0.41
2:BB:1141:LEU:CD1	7:BG:17:ILE:HD13	2.50	0.41
3:BC:328:LEU:HA	3:BC:328:LEU:HD13	1.59	0.41
5:BE:135:PHE:HZ	5:BE:186:LEU:O	2.02	0.41
13:BM:82:ASN:HA	13:BM:83:PRO:HD2	1.92	0.41
1:CA:70:LYS:HE2	1:CA:71:PHE:CE1	2.54	0.41
1:CA:77:GLY:O	1:CA:78:HIS:HB3	2.20	0.41
1:CA:247:GLY:C	1:CA:249:THR:H	2.28	0.41
1:CA:472:MET:HE1	1:CA:1025:LYS:HE3	2.02	0.41
1:CA:1482:LYS:NZ	2:CB:304:ASP:OD1	2.52	0.41
1:CA:1484:LEU:CG	2:CB:308:LEU:HD11	2.48	0.41
1:CA:1589:MET:O	1:CA:1596:LEU:HB2	2.19	0.41
2:CB:221:SER:C	2:CB:223:ALA:N	2.78	0.41
2:CB:378:ILE:H	2:CB:378:ILE:HG12	1.58	0.41
2:CB:673:ASN:HB2	2:CB:687:THR:HG23	2.01	0.41
2:CB:733:LEU:HD22	10:CJ:60:PHE:HE2	1.85	0.41
2:CB:1153:ILE:CG1	2:CB:1154:ASP:H	2.33	0.41
2:CB:1157:GLN:HB3	2:CB:1168:VAL:HG12	2.02	0.41
3:CC:105:PRO:HB2	3:CC:187:ALA:HB3	2.02	0.41
3:CC:255:VAL:HG12	3:CC:256:ILE:CG1	2.48	0.41
7:CG:233:VAL:HG13	7:CG:245:VAL:HG13	2.02	0.41
9:CI:95:ASN:N	9:CI:113:THR:O	2.46	0.41
11:CK:45:GLU:H	11:CK:45:GLU:HG3	1.34	0.41
12:CL:64:LEU:HD12	12:CL:65:VAL:N	2.35	0.41
14:CN:54:TRP:CZ2	14:CN:135:LYS:HD2	2.55	0.41
14:CN:57:LYS:HD3	14:CN:138:SER:OG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:2:ASP:HB3	1:DA:5:LYS:HD3	2.00	0.41
1:DA:602:GLY:C	1:DA:603:HIS:HD2	2.28	0.41
1:DA:900:VAL:HB	1:DA:981:TYR:CE1	2.54	0.41
1:DA:1012:LYS:CE	2:DB:515:THR:HG23	2.49	0.41
1:DA:1111:GLU:H	1:DA:1111:GLU:HG2	1.71	0.41
1:DA:1481:GLU:H	1:DA:1481:GLU:HG2	1.44	0.41
1:DA:1540:GLY:O	1:DA:1542:THR:HG22	2.20	0.41
2:DB:98:SER:O	2:DB:141:LEU:HD12	2.20	0.41
2:DB:221:SER:C	2:DB:223:ALA:N	2.75	0.41
2:DB:714:ARG:HG2	2:DB:959:THR:CG2	2.51	0.41
2:DB:966:SER:HB3	2:DB:967:LEU:H	1.68	0.41
3:DC:240:LYS:HB2	3:DC:240:LYS:HE3	1.91	0.41
3:DC:311:GLU:H	3:DC:311:GLU:CD	2.27	0.41
4:DD:89:LEU:HD23	4:DD:92:ILE:HD12	2.02	0.41
7:DG:243:VAL:H	7:DG:243:VAL:HG13	1.43	0.41
8:DH:39:THR:HG22	8:DH:124:ARG:HB3	2.01	0.41
8:DH:47:PHE:O	8:DH:49:VAL:HG23	2.20	0.41
1:EA:509:GLU:HA	1:EA:510:PRO:HD3	1.80	0.41
1:EA:1261:VAL:C	1:EA:1262:LEU:CA	2.93	0.41
1:EA:1640:ARG:O	1:EA:1643:VAL:N	2.53	0.41
2:EB:187:SER:CB	10:EJ:59:LYS:HZ3	2.32	0.41
2:EB:415:GLU:O	2:EB:418:ASP:HB3	2.19	0.41
2:EB:501:ARG:O	2:EB:544:HIS:HA	2.20	0.41
2:EB:959:THR:O	2:EB:961:GLY:N	2.53	0.41
3:EC:48:ASP:CG	3:EC:50:ARG:H	2.27	0.41
5:EE:196:VAL:O	5:EE:211:TYR:HB3	2.20	0.41
7:EG:105:ILE:HG23	7:EG:115:PHE:O	2.20	0.41
8:EH:9:ILE:H	8:EH:9:ILE:HG12	1.73	0.41
9:EI:65:SER:OG	9:EI:66:VAL:N	2.50	0.41
10:EJ:49:MET:HE3	10:EJ:49:MET:HB3	1.93	0.41
14:EN:67:LEU:O	14:EN:68:LYS:HD2	2.20	0.41
1:FA:804:GLU:O	1:FA:805:VAL:C	2.62	0.41
1:FA:1596:LEU:HD23	1:FA:1596:LEU:HA	1.93	0.41
2:FB:70:GLU:CD	2:FB:96:SER:HB2	2.44	0.41
2:FB:624:LEU:HD12	2:FB:625:GLU:H	1.85	0.41
2:FB:716:MET:O	2:FB:719:CYS:HB2	2.20	0.41
2:FB:731:VAL:HA	10:FJ:60:PHE:CZ	2.55	0.41
2:FB:960:ILE:O	2:FB:963:PHE:N	2.53	0.41
5:FE:15:ALA:HB1	5:FE:140:LEU:HB2	2.02	0.41
5:FE:182:ASP:HA	5:FE:183:PRO:HD3	1.96	0.41
7:FG:162:ILE:HA	7:FG:163:PRO:HD2	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:FJ:53:HIS:CG	10:FJ:54:VAL:N	2.88	0.41
13:FM:57:ASN:C	13:FM:103:LYS:HZ1	2.27	0.41
1:AA:41:LEU:HA	1:AA:41:LEU:HD23	1.87	0.41
1:AA:462:LYS:HD3	1:AA:469:LYS:NZ	2.35	0.41
1:AA:507:TYR:HB3	1:AA:579:ARG:NH1	2.34	0.41
1:AA:952:LEU:HD22	1:AA:952:LEU:HA	1.88	0.41
1:AA:956:ARG:HB3	1:AA:957:VAL:H	1.43	0.41
1:AA:1276:THR:HG23	1:AA:1288:ARG:NH1	2.31	0.41
1:AA:1650:GLY:C	1:AA:1652:GLY:H	2.28	0.41
2:AB:1011:GLU:HA	2:AB:1012:PRO:HD3	1.86	0.41
2:AB:1038:HIS:CE1	2:AB:1042:ASP:OD2	2.73	0.41
3:AC:136:LEU:HD12	3:AC:137:ASN:N	2.35	0.41
4:AD:24:ALA:HA	7:AG:43:ILE:HG22	2.02	0.41
5:AE:139:ALA:C	5:AE:141:VAL:H	2.28	0.41
6:AF:119:ARG:O	6:AF:122:MET:HB2	2.21	0.41
1:BA:43:HIS:HA	1:BA:44:PRO:HD3	1.91	0.41
1:BA:644:ARG:NH2	6:BF:118:LEU:HD23	2.35	0.41
1:BA:718:THR:HG22	8:BH:98:TYR:O	2.20	0.41
1:BA:1018:TYR:O	1:BA:1022:CYS:N	2.46	0.41
1:BA:1021:ARG:O	1:BA:1025:LYS:HB2	2.20	0.41
1:BA:1085:LEU:H	1:BA:1085:LEU:HG	1.52	0.41
1:BA:1116:GLN:HE21	5:BE:207:ARG:NE	2.18	0.41
1:BA:1600:ARG:HB2	1:BA:1616:GLU:OE1	2.20	0.41
2:BB:141:LEU:HD23	2:BB:450:LEU:HD11	2.03	0.41
2:BB:219:ARG:HA	2:BB:220:PRO:HD2	1.87	0.41
3:BC:310:PRO:O	3:BC:313:ILE:N	2.53	0.41
6:BF:69:LEU:O	6:BF:72:LYS:HB2	2.20	0.41
6:BF:72:LYS:HD2	6:BF:141:GLY:C	2.45	0.41
8:BH:63:LEU:CB	8:BH:88:SER:HB2	2.49	0.41
7:BO:301:LYS:NZ	7:BO:305:GLY:HA2	2.35	0.41
1:CA:121:LYS:O	1:CA:124:LEU:N	2.53	0.41
1:CA:393:SER:O	1:CA:396:ILE:HB	2.19	0.41
1:CA:457:LYS:C	1:CA:459:ALA:N	2.77	0.41
1:CA:1226:VAL:HG12	1:CA:1227:MET:N	2.34	0.41
1:CA:1501:ILE:O	1:CA:1502:PRO:C	2.62	0.41
2:CB:467:THR:HB	2:CB:469:ASN:ND2	2.26	0.41
2:CB:492:ASN:OD1	2:CB:494:TYR:HB2	2.19	0.41
2:CB:617:THR:OG1	2:CB:620:LEU:HD23	2.20	0.41
2:CB:665:GLY:N	2:CB:668:GLU:OE1	2.47	0.41
2:CB:885:VAL:HA	2:CB:903:ILE:CG2	2.50	0.41
2:CB:954:PHE:H	2:CB:955:PRO:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:117:ASP:O	3:CC:125:LYS:HG3	2.20	0.41
3:CC:190:ASP:O	3:CC:192:LEU:N	2.53	0.41
3:CC:333:ILE:HD11	11:CK:49:LEU:N	2.35	0.41
5:CE:139:ALA:C	5:CE:141:VAL:H	2.27	0.41
5:CE:198:ILE:HD12	5:CE:210:SER:OG	2.20	0.41
9:CI:103:SER:HB3	9:CI:104:ALA:H	1.63	0.41
10:CJ:54:VAL:C	10:CJ:56:LEU:N	2.76	0.41
1:DA:4:SER:HB2	1:DA:573:LEU:CD2	2.51	0.41
1:DA:49:LEU:HD23	1:DA:49:LEU:HA	1.79	0.41
1:DA:1220:PRO:O	1:DA:1223:ARG:HB2	2.20	0.41
1:DA:1256:LYS:HD3	1:DA:1305:GLU:O	2.21	0.41
1:DA:1462:PHE:HB3	1:DA:1464:ASP:OD1	2.20	0.41
1:DA:1579:PHE:HA	1:DA:1582:LEU:HG	2.02	0.41
2:DB:260:PHE:CD2	2:DB:276:ILE:HG12	2.55	0.41
2:DB:637:TYR:HA	2:DB:638:PRO:HD3	1.88	0.41
2:DB:733:LEU:HD12	2:DB:904:LYS:NZ	2.35	0.41
2:DB:964:VAL:C	2:DB:966:SER:N	2.75	0.41
8:DH:42:ILE:HD13	8:DH:95:TYR:CE2	2.54	0.41
8:DH:83:GLN:HB2	8:DH:84:ALA:H	1.53	0.41
8:DH:101:ALA:HB2	8:DH:116:TYR:HE1	1.85	0.41
14:DN:55:LEU:HD12	14:DN:56:ILE:N	2.33	0.41
14:DN:97:SER:OG	14:DN:98:SER:N	2.53	0.41
1:EA:76:GLN:N	1:EA:364:PRO:HG3	2.35	0.41
1:EA:113:VAL:H	1:EA:113:VAL:HG23	1.60	0.41
1:EA:425:ASN:OD1	7:EO:272:ILE:HG12	2.21	0.41
1:EA:495:ILE:HG22	1:EA:604:LYS:O	2.20	0.41
1:EA:595:LEU:HD22	1:EA:595:LEU:HA	1.82	0.41
1:EA:678:VAL:HG22	1:EA:781:LEU:O	2.19	0.41
1:EA:899:LYS:O	1:EA:903:ILE:HG12	2.19	0.41
1:EA:1447:GLN:HE22	1:EA:1459:LYS:HG2	1.84	0.41
2:EB:21:ARG:HG3	2:EB:763:ASP:HB3	2.02	0.41
2:EB:894:LYS:HB2	2:EB:894:LYS:HE3	1.88	0.41
2:EB:994:ASP:OD1	2:EB:994:ASP:N	2.53	0.41
3:EC:204:LEU:HG	3:EC:204:LEU:O	2.20	0.41
3:EC:228:ARG:NH1	14:EN:173:THR:H	2.18	0.41
5:EE:17:ARG:O	5:EE:20:LYS:HB2	2.20	0.41
6:EF:97:ARG:HG3	6:EF:101:ILE:CD1	2.50	0.41
9:EI:88:GLN:NE2	9:EI:117:CYS:SG	2.93	0.41
11:EK:93:ILE:HA	11:EK:94:PRO:HD2	1.85	0.41
7:EO:290:GLU:HA	7:EO:293:LYS:CD	2.50	0.41
1:FA:314:TYR:CD2	1:FA:424:MET:HG3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:457:LYS:O	1:FA:460:LEU:N	2.53	0.41
1:FA:688:THR:O	1:FA:689:ARG:C	2.63	0.41
1:FA:751:SER:O	1:FA:769:VAL:N	2.48	0.41
1:FA:988:SER:C	2:FB:709:PHE:HE2	2.28	0.41
1:FA:1227:MET:HE2	1:FA:1227:MET:HB3	1.67	0.41
2:FB:103:SER:O	2:FB:137:LEU:HD22	2.19	0.41
2:FB:163:VAL:HG12	2:FB:164:MET:N	2.35	0.41
2:FB:360:VAL:HA	2:FB:370:LYS:NZ	2.24	0.41
2:FB:961:GLY:HA2	2:FB:964:VAL:HG23	2.03	0.41
2:FB:1104:CYS:HB2	2:FB:1128:CYS:HB2	2.03	0.41
3:FC:269:ASP:C	3:FC:271:ARG:H	2.28	0.41
4:FD:88:GLN:O	4:FD:92:ILE:HG13	2.20	0.41
7:FG:31:LYS:C	7:FG:33:GLY:N	2.78	0.41
7:FG:46:TYR:CD1	7:FG:117:TRP:CD1	3.09	0.41
13:FM:44:LYS:HA	13:FM:44:LYS:HD2	1.62	0.41
14:FN:72:VAL:HG22	14:FN:137:PHE:CE1	2.54	0.41
14:FN:109:LEU:O	14:FN:110:LEU:HD23	2.20	0.41
1:AA:103:LEU:HD11	1:AA:243:PHE:CZ	2.55	0.41
1:AA:646:GLU:C	1:AA:648:LEU:H	2.27	0.41
1:AA:731:ILE:O	1:AA:735:VAL:HG23	2.20	0.41
1:AA:1344:ILE:HG23	2:AB:271:VAL:HG22	2.02	0.41
2:AB:107:PRO:HG2	2:AB:133:TYR:CZ	2.55	0.41
2:AB:292:ILE:HD13	2:AB:292:ILE:HA	1.91	0.41
2:AB:417:ILE:O	2:AB:420:TYR:HB3	2.20	0.41
2:AB:911:PRO:O	2:AB:930:LYS:NZ	2.52	0.41
3:AC:172:GLN:H	3:AC:175:GLN:CD	2.28	0.41
3:AC:173:GLY:C	3:AC:175:GLN:N	2.78	0.41
5:AE:134:THR:C	5:AE:135:PHE:HD1	2.29	0.41
5:AE:186:LEU:HD22	5:AE:186:LEU:HA	1.79	0.41
10:AJ:3:VAL:HG12	10:AJ:15:GLY:HA2	2.02	0.41
12:AL:45:ALA:HB1	12:AL:47:ARG:HG2	2.02	0.41
1:BA:1589:MET:HE2	1:BA:1598:PHE:HE1	1.85	0.41
1:BA:1637:PRO:CG	1:BA:1647:ASN:HD21	2.32	0.41
2:BB:505:ARG:HG3	2:BB:541:LEU:HD23	2.02	0.41
2:BB:586:VAL:HB	2:BB:593:ILE:HG22	2.01	0.41
2:BB:755:ASN:C	2:BB:757:TYR:N	2.77	0.41
3:BC:48:ASP:OD1	3:BC:49:ALA:N	2.52	0.41
3:BC:86:PHE:HB2	3:BC:203:SER:O	2.20	0.41
5:BE:182:ASP:OD2	5:BE:184:VAL:HG23	2.20	0.41
7:BG:162:ILE:HA	7:BG:163:PRO:HD2	1.85	0.41
10:BJ:49:MET:HE3	10:BJ:49:MET:HB3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:90:GLY:O	11:BK:103:ILE:HD13	2.20	0.41
12:BL:30:ILE:HD12	12:BL:59:ALA:HB2	2.02	0.41
13:BM:80:LEU:HD12	13:BM:91:TYR:CE1	2.56	0.41
13:BM:81:PHE:CD1	13:BM:88:ILE:HB	2.49	0.41
13:BM:112:LYS:O	13:BM:113:ILE:HG13	2.20	0.41
1:CA:345:LEU:H	1:CA:345:LEU:HG	1.25	0.41
1:CA:499:PRO:C	1:CA:501:PHE:N	2.78	0.41
1:CA:912:VAL:HA	1:CA:913:PRO:HA	1.78	0.41
1:CA:1322:ILE:O	1:CA:1325:LEU:N	2.53	0.41
2:CB:45:HIS:CE1	2:CB:205:MET:HE1	2.55	0.41
2:CB:59:GLY:O	2:CB:60:LEU:C	2.62	0.41
2:CB:1117:VAL:HG21	2:CB:1162:GLY:CA	2.50	0.41
3:CC:155:GLU:H	3:CC:155:GLU:HG2	1.69	0.41
3:CC:163:TYR:O	3:CC:166:ASP:HB2	2.21	0.41
4:CD:19:PRO:CB	4:CD:22:ILE:HD11	2.50	0.41
13:CM:59:ARG:O	13:CM:60:LEU:HD23	2.21	0.41
1:DA:213:ASN:ND2	1:DA:1606:SER:O	2.52	0.41
1:DA:372:LYS:HZ3	7:DO:297:LEU:CD2	2.33	0.41
1:DA:810:LEU:O	1:DA:811:SER:C	2.63	0.41
1:DA:1095:LEU:HD21	1:DA:1134:GLY:HA3	2.03	0.41
1:DA:1117:SER:C	1:DA:1119:LYS:N	2.78	0.41
1:DA:1184:ALA:C	1:DA:1186:GLY:N	2.77	0.41
1:DA:1584:LEU:O	1:DA:1585:ILE:C	2.63	0.41
2:DB:137:LEU:C	2:DB:138:LEU:HD23	2.45	0.41
2:DB:366:GLY:C	2:DB:368:GLN:N	2.77	0.41
2:DB:1011:GLU:HA	2:DB:1012:PRO:HD3	1.84	0.41
3:DC:75:VAL:HG12	3:DC:308:MET:HE1	2.02	0.41
3:DC:303:GLU:O	3:DC:304:SER:HB2	2.20	0.41
5:DE:17:ARG:NH1	5:DE:36:GLU:HA	2.35	0.41
7:DG:166:TRP:CE2	7:DG:219:ASP:HB2	2.55	0.41
10:DJ:18:TRP:CE2	10:DJ:22:LEU:HD21	2.55	0.41
1:EA:642:ASN:O	1:EA:645:ALA:HB3	2.21	0.41
1:EA:753:ASN:CG	1:EA:780:ILE:HD11	2.46	0.41
1:EA:1124:LEU:HD23	1:EA:1124:LEU:HA	1.68	0.41
2:EB:848:ILE:HD12	2:EB:885:VAL:CG2	2.50	0.41
2:EB:964:VAL:C	2:EB:966:SER:N	2.76	0.41
2:EB:1007:TYR:C	2:EB:1009:GLY:H	2.29	0.41
2:EB:1155:ASP:C	2:EB:1157:GLN:N	2.78	0.41
3:EC:54:PHE:CE1	3:EC:300:PHE:HB3	2.54	0.41
3:EC:197:ARG:HB3	3:EC:198:PRO:HD2	2.02	0.41
13:EM:80:LEU:HD12	13:EM:91:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:52:LEU:C	1:FA:54:LEU:N	2.78	0.41
1:FA:122:LEU:O	1:FA:126:GLN:HG3	2.20	0.41
1:FA:549:MET:SD	1:FA:553:GLN:NE2	2.93	0.41
1:FA:552:GLU:O	1:FA:555:LYS:N	2.53	0.41
1:FA:670:ILE:HD13	1:FA:670:ILE:H	1.85	0.41
1:FA:719:ILE:O	1:FA:724:PRO:HA	2.20	0.41
1:FA:750:ILE:H	1:FA:750:ILE:HG13	1.65	0.41
1:FA:830:MET:HB3	2:FB:1008:HIS:HB3	2.02	0.41
1:FA:1563:VAL:O	1:FA:1564:ASN:C	2.63	0.41
2:FB:59:GLY:O	2:FB:62:ASN:N	2.54	0.41
2:FB:154:GLU:HG2	2:FB:156:ARG:HD3	2.01	0.41
2:FB:244:THR:HG21	2:FB:414:LYS:HD3	2.02	0.41
2:FB:548:LYS:HA	2:FB:550:ARG:CZ	2.50	0.41
2:FB:663:ILE:HD12	2:FB:663:ILE:HA	1.49	0.41
2:FB:898:LEU:HD22	12:FL:46:VAL:HG22	2.01	0.41
2:FB:964:VAL:O	2:FB:965:GLU:C	2.63	0.41
3:FC:311:GLU:OE2	3:FC:311:GLU:N	2.49	0.41
5:FE:136:ASN:CG	5:FE:137:GLU:N	2.78	0.41
9:FI:10:CYS:CB	9:FI:13:CYS:SG	3.06	0.41
12:FL:40:LEU:HD23	12:FL:40:LEU:HA	1.85	0.41
13:FM:12:ILE:HA	13:FM:88:ILE:HG23	2.01	0.41
13:FM:66:THR:HG22	13:FM:96:LEU:HG	2.02	0.41
14:FN:99:LEU:HD23	14:FN:99:LEU:HA	1.92	0.41
1:AA:3:ILE:HA	7:AG:111:THR:HG22	2.02	0.41
1:AA:58:LEU:HD11	7:AO:295:LEU:HD11	2.01	0.41
1:AA:1086:ILE:HD13	1:AA:1086:ILE:HA	1.76	0.41
1:AA:1322:ILE:CG2	1:AA:1457:ILE:HD11	2.46	0.41
2:AB:954:PHE:N	2:AB:955:PRO:HD2	2.36	0.41
3:AC:66:ALA:O	3:AC:67:PHE:C	2.63	0.41
6:AF:153:VAL:O	6:AF:154:ASP:HB2	2.20	0.41
8:AH:108:SER:O	8:AH:110:ASP:N	2.52	0.41
7:AO:276:LYS:O	7:AO:279:VAL:HG23	2.20	0.41
1:BA:10:GLU:CG	1:BA:1645:LYS:HE3	2.50	0.41
1:BA:82:PRO:HD3	1:BA:393:SER:OG	2.20	0.41
1:BA:669:LEU:HD23	1:BA:669:LEU:HA	1.60	0.41
1:BA:1055:ILE:HD13	1:BA:1055:ILE:HA	1.87	0.41
1:BA:1242:ILE:CD1	1:BA:1517:ARG:HB3	2.51	0.41
1:BA:1501:ILE:O	1:BA:1502:PRO:C	2.63	0.41
1:BA:1516:LYS:O	1:BA:1518:VAL:HB	2.20	0.41
2:BB:215:MET:CE	2:BB:394:PRO:HB3	2.50	0.41
2:BB:262:PHE:CD1	2:BB:357:ILE:HG12	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:360:VAL:HA	2:BB:370:LYS:NZ	2.23	0.41
2:BB:859:CYS:SG	2:BB:860:ALA:N	2.93	0.41
3:BC:80:ALA:HA	3:BC:208:CYS:HB3	2.02	0.41
4:BD:39:PHE:HZ	7:BG:83:GLY:C	2.29	0.41
5:BE:79:TRP:CD1	5:BE:79:TRP:C	2.99	0.41
10:BJ:68:LYS:NZ	10:BJ:68:LYS:HB2	2.36	0.41
1:CA:394:LEU:C	1:CA:396:ILE:N	2.75	0.41
1:CA:750:ILE:H	1:CA:750:ILE:HG13	1.64	0.41
1:CA:1175:MET:HE2	1:CA:1175:MET:HB3	1.68	0.41
1:CA:1584:LEU:O	1:CA:1585:ILE:C	2.62	0.41
2:CB:107:PRO:HG2	2:CB:133:TYR:CZ	2.54	0.41
2:CB:397:THR:O	2:CB:398:GLN:C	2.63	0.41
2:CB:732:ALA:O	2:CB:736:ARG:HG3	2.20	0.41
2:CB:778:TYR:HB3	2:CB:779:THR:H	1.61	0.41
2:CB:778:TYR:CE2	2:CB:937:PRO:HD3	2.55	0.41
2:CB:1013:MET:O	2:CB:1022:LEU:HG	2.20	0.41
2:CB:1178:ILE:HB	2:CB:1182:LEU:HD23	2.02	0.41
5:CE:79:TRP:CD1	5:CE:79:TRP:C	2.99	0.41
5:CE:106:GLN:O	5:CE:131:THR:HG23	2.20	0.41
7:CG:155:ALA:HA	7:CG:245:VAL:HB	2.02	0.41
10:CJ:37:SER:C	10:CJ:39:LEU:N	2.78	0.41
11:CK:83:ASN:HA	11:CK:84:PRO:HD2	1.91	0.41
13:CM:20:SER:O	14:CN:112:PRO:HD3	2.21	0.41
1:DA:90:PHE:HE1	1:DA:1623:THR:HG23	1.85	0.41
1:DA:91:PHE:CG	1:DA:249:THR:HG22	2.56	0.41
1:DA:197:LEU:HD21	1:DA:203:THR:O	2.20	0.41
1:DA:363:PRO:O	1:DA:368:ARG:NE	2.52	0.41
1:DA:467:PHE:O	1:DA:471:MET:HB2	2.20	0.41
1:DA:501:PHE:O	1:DA:504:LYS:N	2.24	0.41
1:DA:657:TYR:O	1:DA:665:PRO:HA	2.21	0.41
1:DA:696:ILE:O	1:DA:700:ILE:HG13	2.20	0.41
1:DA:892:LEU:HG	1:DA:893:ASP:OD1	2.20	0.41
1:DA:1184:ALA:O	1:DA:1185:VAL:C	2.63	0.41
1:DA:1337:LYS:H	1:DA:1337:LYS:HG2	1.73	0.41
1:DA:1447:GLN:HE22	1:DA:1459:LYS:HG2	1.85	0.41
1:DA:1474:LEU:HD22	1:DA:1474:LEU:HA	1.64	0.41
1:DA:1477:ALA:O	1:DA:1480:THR:OG1	2.37	0.41
1:DA:1493:CYS:C	1:DA:1495:LYS:N	2.78	0.41
1:DA:1596:LEU:HA	1:DA:1596:LEU:HD23	1.77	0.41
2:DB:783:MET:O	2:DB:784:ASP:C	2.63	0.41
2:DB:834:LYS:O	2:DB:837:LEU:N	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:333:ILE:HD12	3:DC:333:ILE:HA	1.86	0.41
5:DE:71:LYS:NZ	5:DE:160:GLU:OE2	2.42	0.41
5:DE:178:ILE:HD12	5:DE:179:GLN:N	2.35	0.41
7:DG:105:ILE:HG12	7:DG:116:THR:CB	2.46	0.41
14:DN:58:PHE:HA	14:DN:139:VAL:CG2	2.46	0.41
1:EA:28:SER:CB	1:EA:78:HIS:HD1	2.32	0.41
1:EA:345:LEU:H	1:EA:345:LEU:HG	1.34	0.41
1:EA:888:LYS:CG	9:EI:69:THR:HG22	2.50	0.41
1:EA:1021:ARG:O	1:EA:1025:LYS:HB2	2.21	0.41
1:EA:1021:ARG:HH12	1:EA:1615:TYR:HA	1.84	0.41
1:EA:1024:THR:O	1:EA:1028:GLU:N	2.54	0.41
1:EA:1073:TYR:CE1	1:EA:1077:LEU:HD22	2.55	0.41
1:EA:1176:ARG:HD3	6:EF:84:TYR:HE1	1.86	0.41
2:EB:158:CYS:O	2:EB:457:ILE:N	2.52	0.41
2:EB:250:LEU:CD1	2:EB:378:ILE:HD13	2.51	0.41
2:EB:745:GLN:NE2	2:EB:745:GLN:HA	2.35	0.41
2:EB:1094:ASN:OD1	2:EB:1094:ASN:N	2.53	0.41
3:EC:98:ALA:O	3:EC:99:HIS:C	2.62	0.41
3:EC:233:ILE:HA	3:EC:233:ILE:HD13	1.70	0.41
4:ED:22:ILE:O	4:ED:23:HIS:ND1	2.54	0.41
6:EF:103:MET:O	7:EG:51:PRO:HG2	2.20	0.41
7:EG:99:ASP:O	7:EG:100:THR:C	2.63	0.41
7:EG:139:ILE:HD13	7:EG:139:ILE:HA	1.94	0.41
10:EJ:8:PHE:HD1	10:EJ:8:PHE:HA	1.67	0.41
10:EJ:41:LEU:HD22	10:EJ:46:CYS:HB3	2.02	0.41
1:FA:62:CYS:SG	1:FA:64:THR:N	2.89	0.41
1:FA:211:THR:O	1:FA:212:VAL:C	2.62	0.41
1:FA:354:SER:HB2	1:FA:355:PHE:HD1	1.85	0.41
1:FA:431:GLN:O	1:FA:434:VAL:HB	2.20	0.41
1:FA:499:PRO:O	1:FA:501:PHE:N	2.53	0.41
1:FA:581:ILE:HB	1:FA:637:PHE:CE2	2.56	0.41
1:FA:691:GLN:O	1:FA:692:TYR:C	2.62	0.41
1:FA:934:LYS:HB3	2:FB:955:PRO:HG2	2.03	0.41
1:FA:1137:SER:HB2	5:FE:205:SER:HB2	2.01	0.41
1:FA:1527:GLN:HA	1:FA:1530:TRP:CE3	2.55	0.41
2:FB:262:PHE:O	2:FB:268:GLU:HG2	2.20	0.41
2:FB:393:ASN:HD21	2:FB:395:ASP:HB2	1.86	0.41
2:FB:561:ILE:HB	2:FB:562:PRO:HD3	2.02	0.41
2:FB:575:HIS:HE2	13:FM:76:TYR:HH	1.54	0.41
2:FB:902:SER:O	2:FB:903:ILE:HG23	2.19	0.41
2:FB:1151:ILE:HD13	7:FG:21:LYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:1189:LEU:HD22	2:FB:1189:LEU:HA	1.55	0.41
5:FE:55:ARG:HB3	5:FE:82:PHE:HB3	2.02	0.41
7:FG:45:LEU:O	7:FG:117:TRP:HA	2.21	0.41
7:FG:62:MET:HA	7:FG:66:LEU:HB2	2.01	0.41
11:FK:114:VAL:O	11:FK:117:LEU:HB3	2.21	0.41
14:FN:144:LYS:O	14:FN:146:PRO:HD3	2.20	0.41
1:AA:736:LEU:HD22	1:AA:736:LEU:HA	1.65	0.41
1:AA:1159:ASP:C	1:AA:1161:VAL:N	2.79	0.41
1:AA:1170:MET:O	1:AA:1173:LYS:N	2.53	0.41
1:AA:1258:ILE:HB	1:AA:1501:ILE:HD12	2.01	0.41
2:AB:565:LEU:HD23	2:AB:565:LEU:HA	1.77	0.41
2:AB:628:TYR:HD1	2:AB:640:LEU:HD13	1.85	0.41
2:AB:954:PHE:H	2:AB:955:PRO:HD2	1.85	0.41
2:AB:1201:GLU:HG3	2:AB:1203:LYS:H	1.84	0.41
3:AC:117:ASP:O	3:AC:125:LYS:HG3	2.21	0.41
7:AG:31:LYS:O	7:AG:33:GLY:N	2.53	0.41
11:AK:77:ARG:HG3	11:AK:78:TYR:N	2.35	0.41
13:AM:21:VAL:HB	14:AN:109:LEU:HD11	2.03	0.41
1:BA:744:MET:HE3	1:BA:1078:LYS:HB3	2.03	0.41
1:BA:1018:TYR:HD2	1:BA:1227:MET:HE1	1.86	0.41
1:BA:1506:ARG:CZ	1:BA:1506:ARG:HB2	2.48	0.41
1:BA:1543:SER:OG	1:BA:1544:ASN:N	2.52	0.41
1:BA:1564:ASN:O	1:BA:1567:ASN:HB3	2.21	0.41
2:BB:570:VAL:HG13	2:BB:596:VAL:HG13	2.02	0.41
2:BB:733:LEU:HD22	10:BJ:60:PHE:HE2	1.85	0.41
2:BB:994:ASP:OD1	2:BB:994:ASP:N	2.50	0.41
4:BD:89:LEU:HA	4:BD:89:LEU:HD23	1.79	0.41
7:BG:46:TYR:CD1	7:BG:117:TRP:HD1	2.38	0.41
9:BI:63:LYS:C	9:BI:65:SER:H	2.29	0.41
1:CA:41:LEU:HD23	1:CA:41:LEU:HA	1.86	0.41
1:CA:188:TYR:O	1:CA:189:VAL:C	2.63	0.41
1:CA:669:LEU:HD13	1:CA:673:HIS:CB	2.47	0.41
1:CA:1058:THR:C	1:CA:1060:GLU:N	2.77	0.41
1:CA:1159:ASP:O	1:CA:1161:VAL:HG23	2.21	0.41
1:CA:1191:GLN:C	1:CA:1193:VAL:H	2.28	0.41
1:CA:1258:ILE:O	1:CA:1501:ILE:HG13	2.21	0.41
1:CA:1348:VAL:HG13	2:CB:268:GLU:O	2.20	0.41
2:CB:265:ARG:C	2:CB:267:ASN:H	2.28	0.41
2:CB:296:ASP:O	2:CB:298:LYS:N	2.53	0.41
2:CB:637:TYR:HA	2:CB:638:PRO:HD3	1.82	0.41
2:CB:702:ASN:OD1	2:CB:756:LEU:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:792:SER:HB3	2:CB:796:ARG:NH2	2.35	0.41
2:CB:824:HIS:O	2:CB:861:TYR:HB2	2.21	0.41
3:CC:98:ALA:O	3:CC:99:HIS:C	2.64	0.41
7:CG:58:LEU:HD23	7:CG:89:ILE:HD11	2.02	0.41
7:CG:100:THR:O	7:CG:102:GLU:N	2.54	0.41
13:CM:8:SER:HB2	14:CN:73:ASP:OD1	2.20	0.41
1:DA:964:LYS:HE2	1:DA:964:LYS:HB3	1.71	0.41
1:DA:996:TYR:HE2	1:DA:1000:MET:HE2	1.85	0.41
1:DA:1168:ALA:O	1:DA:1171:GLN:N	2.54	0.41
1:DA:1272:VAL:HG12	1:DA:1273:THR:N	2.32	0.41
2:DB:128:GLN:NE2	2:DB:735:HIS:HA	2.35	0.41
2:DB:771:ALA:O	2:DB:1030:VAL:HG12	2.20	0.41
3:DC:192:LEU:HD12	3:DC:192:LEU:HA	1.89	0.41
3:DC:235:ILE:H	3:DC:235:ILE:HG12	1.51	0.41
6:DF:111:LEU:C	6:DF:113:GLY:H	2.28	0.41
7:DG:163:PRO:C	7:DG:165:ASP:H	2.29	0.41
1:EA:98:LEU:HA	1:EA:324:LEU:HD21	2.01	0.41
1:EA:473:GLY:HA2	2:EB:1071:VAL:O	2.19	0.41
1:EA:600:MET:SD	2:EB:1079:LEU:HD21	2.61	0.41
1:EA:719:ILE:CG1	8:EH:97:MET:HG2	2.42	0.41
1:EA:1603:MET:HE3	1:EA:1603:MET:HB3	1.76	0.41
2:EB:75:ASP:OD1	2:EB:75:ASP:N	2.52	0.41
2:EB:624:LEU:HD12	2:EB:625:GLU:H	1.85	0.41
2:EB:977:ILE:HD13	2:EB:978:ALA:O	2.20	0.41
3:EC:71:MET:HE3	3:EC:71:MET:HB3	1.65	0.41
3:EC:193:LEU:HA	3:EC:193:LEU:HD12	1.77	0.41
5:EE:37:LEU:HD12	5:EE:37:LEU:HA	1.96	0.41
1:FA:659:THR:HG23	1:FA:664:SER:O	2.19	0.41
1:FA:821:ILE:CD1	2:FB:777:SER:HB2	2.51	0.41
1:FA:1459:LYS:HE3	1:FA:1459:LYS:HB3	1.92	0.41
1:FA:1546:VAL:HG21	1:FA:1595:TYR:CE2	2.55	0.41
1:FA:1612:LYS:O	1:FA:1615:TYR:N	2.48	0.41
2:FB:203:ILE:H	2:FB:203:ILE:HD12	1.85	0.41
2:FB:208:VAL:HG23	2:FB:401:GLU:HG2	2.03	0.41
2:FB:374:LEU:O	2:FB:378:ILE:HG12	2.20	0.41
2:FB:658:LEU:HD12	2:FB:658:LEU:HA	1.94	0.41
2:FB:699:ILE:HD13	2:FB:699:ILE:N	2.34	0.41
2:FB:785:ASP:HB3	2:FB:957:ARG:HH22	1.85	0.41
2:FB:825:PHE:CE2	2:FB:899:GLN:HA	2.52	0.41
3:FC:48:ASP:CG	3:FC:50:ARG:H	2.27	0.41
3:FC:240:LYS:HB2	3:FC:240:LYS:HE3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:144:ILE:N	5:FE:144:ILE:HD13	2.36	0.41
6:FF:100:GLN:HG2	7:FG:112:PRO:CB	2.50	0.41
8:FH:12:VAL:HG12	8:FH:51:ALA:HA	2.03	0.41
13:FM:23:VAL:HB	13:FM:95:VAL:HG22	2.02	0.41
1:AA:98:LEU:HA	1:AA:324:LEU:HD21	2.03	0.41
1:AA:425:ASN:CG	7:AO:272:ILE:HG12	2.46	0.41
1:AA:509:GLU:HA	1:AA:510:PRO:HD3	1.82	0.41
1:AA:556:ALA:C	1:AA:558:ALA:N	2.76	0.41
1:AA:584:ARG:HD3	6:AF:116:ASP:OD2	2.21	0.41
1:AA:733:THR:HG23	1:AA:774:GLY:O	2.20	0.41
1:AA:1261:VAL:O	1:AA:1498:ILE:HB	2.21	0.41
1:AA:1292:ILE:CD1	1:AA:1473:LYS:H	2.26	0.41
2:AB:416:LYS:HZ3	2:AB:471:VAL:CG1	2.33	0.41
2:AB:800:TYR:CD2	2:AB:800:TYR:C	2.98	0.41
3:AC:67:PHE:HE1	3:AC:318:VAL:HA	1.85	0.41
5:AE:72:PHE:CZ	5:AE:155:ARG:HG2	2.54	0.41
5:AE:112:TYR:CE1	5:AE:136:ASN:HB2	2.55	0.41
5:AE:134:THR:C	5:AE:135:PHE:CD1	2.99	0.41
5:AE:139:ALA:C	5:AE:141:VAL:N	2.78	0.41
7:AG:165:ASP:OD2	7:AG:220:SER:HA	2.20	0.41
8:AH:63:LEU:CB	8:AH:88:SER:HB2	2.48	0.41
8:AH:83:GLN:HB2	8:AH:84:ALA:H	1.57	0.41
13:AM:16:GLN:HB3	13:AM:92:LYS:H	1.84	0.41
1:BA:522:ALA:O	1:BA:525:ASN:N	2.53	0.41
1:BA:665:PRO:HB2	1:BA:788:ALA:HA	2.02	0.41
1:BA:706:HIS:CD2	1:BA:739:VAL:HA	2.56	0.41
1:BA:964:LYS:HB3	1:BA:964:LYS:HE2	1.74	0.41
1:BA:969:PHE:CD2	1:BA:978:ALA:HA	2.56	0.41
2:BB:122:TYR:CE2	2:BB:183:HIS:CD2	3.09	0.41
2:BB:156:ARG:HD2	2:BB:156:ARG:HA	1.52	0.41
2:BB:271:VAL:HB	2:BB:276:ILE:HD11	2.03	0.41
2:BB:345:SER:HA	13:BM:113:ILE:HG13	2.03	0.41
2:BB:416:LYS:HD2	2:BB:460:LYS:HD2	2.01	0.41
5:BE:23:VAL:HG12	5:BE:28:TYR:HB2	2.02	0.41
5:BE:26:ARG:NH2	5:BE:133:GLU:OE1	2.52	0.41
5:BE:75:MET:HE1	5:BE:155:ARG:NH2	2.36	0.41
8:BH:47:PHE:O	8:BH:49:VAL:HG23	2.21	0.41
9:BI:95:ASN:HB2	9:BI:113:THR:HB	2.02	0.41
13:BM:89:GLN:O	13:BM:90:LEU:HD23	2.20	0.41
14:BN:160:VAL:H	14:BN:160:VAL:HG23	1.61	0.41
1:CA:469:LYS:NZ	1:CA:470:HIS:HE1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:601:MET:HE2	1:CA:656:GLN:HG3	2.02	0.41
1:CA:696:ILE:O	1:CA:700:ILE:HG13	2.21	0.41
1:CA:751:SER:OG	1:CA:752:LYS:N	2.54	0.41
1:CA:947:LEU:HD13	1:CA:982:VAL:HG11	2.03	0.41
1:CA:1222:LEU:HA	1:CA:1225:ILE:HD12	2.03	0.41
1:CA:1555:VAL:HG11	5:CE:178:ILE:HD13	2.03	0.41
2:CB:966:SER:HB3	2:CB:967:LEU:H	1.63	0.41
2:CB:1020:GLU:O	2:CB:1021:GLU:C	2.63	0.41
2:CB:1053:ASN:ND2	2:CB:1054:SER:N	2.69	0.41
2:CB:1137:ASP:O	2:CB:1140:LYS:HB2	2.20	0.41
3:CC:121:PRO:O	3:CC:125:LYS:HB2	2.21	0.41
3:CC:216:HIS:O	3:CC:218:LYS:N	2.54	0.41
4:CD:94:ARG:NH2	4:CD:100:PRO:HG2	2.36	0.41
5:CE:102:GLU:C	5:CE:104:ASN:H	2.29	0.41
5:CE:153:HIS:HD1	5:CE:153:HIS:N	2.18	0.41
8:CH:59:ILE:HG12	8:CH:141:TYR:O	2.21	0.41
11:CK:120:GLY:O	11:CK:121:LEU:C	2.63	0.41
1:DA:31:GLN:NE2	1:DA:32:ILE:O	2.47	0.41
1:DA:477:ASN:OD1	2:DB:1049:THR:HG23	2.20	0.41
1:DA:495:ILE:HG22	1:DA:604:LYS:O	2.20	0.41
1:DA:821:ILE:CD1	2:DB:777:SER:HB2	2.50	0.41
1:DA:1168:ALA:HA	1:DA:1171:GLN:OE1	2.21	0.41
1:DA:1589:MET:O	1:DA:1596:LEU:HB2	2.21	0.41
2:DB:359:LEU:HD23	2:DB:359:LEU:HA	1.57	0.41
2:DB:844:GLY:HA2	2:DB:860:ALA:HB3	2.02	0.41
2:DB:848:ILE:HB	12:DL:60:ARG:HG3	2.01	0.41
3:DC:67:PHE:O	3:DC:71:MET:HG2	2.21	0.41
3:DC:229:LEU:O	3:DC:231:PRO:HD3	2.21	0.41
5:DE:136:ASN:CG	5:DE:137:GLU:N	2.78	0.41
7:DG:38:ILE:H	7:DG:38:ILE:HG13	1.29	0.41
12:DL:63:ARG:CG	12:DL:64:LEU:H	2.25	0.41
1:EA:36:THR:HG22	1:EA:37:VAL:N	2.36	0.41
1:EA:113:VAL:HG11	1:EA:181:LEU:HD23	2.03	0.41
1:EA:114:GLU:O	1:EA:115:VAL:C	2.64	0.41
1:EA:213:ASN:ND2	1:EA:1606:SER:O	2.54	0.41
1:EA:1102:LEU:HD12	1:EA:1105:ARG:HE	1.85	0.41
1:EA:1241:PRO:HG3	1:EA:1540:GLY:CA	2.51	0.41
1:EA:1256:LYS:HD3	1:EA:1305:GLU:O	2.20	0.41
1:EA:1507:CYS:SG	1:EA:1519:LEU:HB2	2.60	0.41
2:EB:15:ASP:O	2:EB:753:LYS:HE3	2.20	0.41
2:EB:731:VAL:HG13	10:EJ:60:PHE:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:964:VAL:O	2:EB:965:GLU:C	2.63	0.41
3:EC:70:ILE:HG21	3:EC:317:SER:HA	2.01	0.41
3:EC:82:TYR:HB3	3:EC:84:TYR:HE1	1.85	0.41
3:EC:136:LEU:HD13	3:EC:166:ASP:O	2.20	0.41
5:EE:139:ALA:C	5:EE:141:VAL:N	2.77	0.41
7:EG:134:GLU:O	7:EG:149:ILE:HG23	2.19	0.41
9:EI:52:ALA:C	9:EI:54:ASP:H	2.28	0.41
1:FA:1:MET:SD	1:FA:1:MET:C	3.03	0.41
1:FA:759:TYR:CE1	1:FA:913:PRO:HG3	2.55	0.41
1:FA:968:SER:O	1:FA:968:SER:OG	2.36	0.41
1:FA:1032:VAL:O	1:FA:1182:GLY:N	2.54	0.41
1:FA:1237:GLN:HB3	1:FA:1520:VAL:CG1	2.51	0.41
2:FB:728:THR:OG1	2:FB:766:PRO:O	2.24	0.41
2:FB:1076:ARG:O	2:FB:1080:ILE:HG13	2.20	0.41
9:FI:65:SER:OG	9:FI:66:VAL:N	2.54	0.41
9:FI:109:THR:HG21	9:FI:122:ARG:CZ	2.51	0.41
13:FM:20:SER:O	14:FN:112:PRO:HD3	2.20	0.41
1:AA:818:THR:O	1:AA:821:ILE:HG22	2.20	0.41
1:AA:1159:ASP:O	1:AA:1161:VAL:N	2.53	0.41
1:AA:1263:LEU:C	1:AA:1265:GLU:N	2.79	0.41
1:AA:1658:ALA:CB	7:AG:107:ILE:HD11	2.48	0.41
2:AB:46:ILE:HG22	2:AB:50:ASN:HD21	1.84	0.41
2:AB:72:VAL:HA	2:AB:95:LEU:O	2.20	0.41
2:AB:567:SER:HB2	14:AN:59:PRO:CB	2.44	0.41
2:AB:858:ILE:HD11	2:AB:872:LYS:HB3	2.02	0.41
3:AC:201:GLU:C	3:AC:202:ILE:HD12	2.45	0.41
3:AC:254:GLY:O	3:AC:268:LYS:HB2	2.19	0.41
3:AC:269:ASP:C	3:AC:271:ARG:N	2.79	0.41
5:AE:154:ILE:HB	5:AE:197:LYS:HB3	2.02	0.41
6:AF:120:ILE:O	6:AF:121:ALA:C	2.63	0.41
7:AG:237:HIS:O	7:AG:244:SER:HB3	2.21	0.41
9:AI:15:ASP:CG	9:AI:32:GLN:HG3	2.46	0.41
13:AM:16:GLN:HE21	13:AM:18:GLN:H	1.69	0.41
1:BA:176:THR:HA	1:BA:179:ASN:ND2	2.36	0.41
1:BA:554:ARG:O	1:BA:555:LYS:C	2.64	0.41
1:BA:733:THR:HG23	1:BA:774:GLY:O	2.21	0.41
1:BA:949:GLN:HA	1:BA:981:TYR:HA	2.02	0.41
1:BA:1222:LEU:HA	1:BA:1225:ILE:HD12	2.02	0.41
1:BA:1585:ILE:H	1:BA:1585:ILE:HG12	1.21	0.41
1:BA:1604:GLU:HA	1:BA:1612:LYS:HE2	2.02	0.41
2:BB:104:ILE:CB	2:BB:169:ARG:HG3	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:332:ASP:HB3	13:BM:114:LYS:HE3	2.03	0.41
2:BB:665:GLY:N	2:BB:668:GLU:OE1	2.49	0.41
2:BB:1026:ILE:CD1	2:BB:1028:VAL:HG13	2.50	0.41
3:BC:136:LEU:C	3:BC:137:ASN:HD22	2.29	0.41
3:BC:137:ASN:OD1	3:BC:203:SER:HB2	2.20	0.41
3:BC:303:GLU:O	3:BC:304:SER:HB2	2.21	0.41
4:BD:93:GLN:O	4:BD:97:LYS:HE3	2.20	0.41
6:BF:75:PRO:HG2	6:BF:78:GLN:OE1	2.21	0.41
14:BN:84:LYS:HB2	14:BN:84:LYS:HE2	1.93	0.41
1:CA:1:MET:HE2	7:CG:110:ASP:HB3	2.03	0.41
1:CA:37:VAL:HG22	1:CA:49:LEU:HB2	2.02	0.41
1:CA:618:TYR:O	1:CA:620:ASN:N	2.53	0.41
1:CA:1008:ASP:OD1	2:CB:515:THR:HG21	2.20	0.41
1:CA:1022:CYS:HA	1:CA:1615:TYR:OH	2.20	0.41
1:CA:1290:TYR:O	1:CA:1473:LYS:HG3	2.21	0.41
1:CA:1484:LEU:HD23	1:CA:1484:LEU:HA	1.82	0.41
2:CB:45:HIS:CE1	2:CB:205:MET:SD	3.14	0.41
2:CB:376:PHE:CD2	2:CB:376:PHE:C	2.99	0.41
2:CB:392:ASP:HB3	2:CB:399:HIS:NE2	2.35	0.41
2:CB:398:GLN:HB3	2:CB:399:HIS:ND1	2.35	0.41
2:CB:789:ILE:CD1	2:CB:947:ILE:HG12	2.50	0.41
2:CB:994:ASP:OD1	2:CB:994:ASP:N	2.51	0.41
4:CD:88:GLN:NE2	4:CD:91:ARG:HH21	2.18	0.41
5:CE:46:TYR:HA	5:CE:57:MET:HE2	2.02	0.41
5:CE:82:PHE:CZ	5:CE:111:VAL:HG21	2.56	0.41
5:CE:148:GLU:H	5:CE:148:GLU:HG3	1.53	0.41
5:CE:152:LYS:C	5:CE:153:HIS:HD1	2.28	0.41
6:CF:86:THR:HG23	6:CF:89:GLU:OE1	2.19	0.41
7:CG:97:LYS:H	7:CG:97:LYS:HG3	1.52	0.41
8:CH:136:LYS:HE3	13:EM:11:GLU:CD	2.45	0.41
9:CI:95:ASN:O	9:CI:96:TYR:HB3	2.20	0.41
13:CM:66:THR:HB	13:CM:71:GLN:HG3	2.02	0.41
1:DA:324:LEU:HA	1:DA:324:LEU:HD23	1.78	0.41
1:DA:1056:ASP:OD1	1:DA:1057:ILE:N	2.54	0.41
2:DB:35:PHE:O	2:DB:38:LEU:HD23	2.20	0.41
2:DB:559:SER:O	2:DB:561:ILE:N	2.50	0.41
2:DB:604:ILE:O	2:DB:607:THR:HB	2.20	0.41
2:DB:698:SER:O	2:DB:702:ASN:HB2	2.21	0.41
3:DC:113:LEU:HD11	3:DC:130:ASN:C	2.46	0.41
8:DH:12:VAL:HB	8:DH:53:ASP:H	1.86	0.41
8:DH:12:VAL:HG12	8:DH:51:ALA:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:DH:107:VAL:HG23	8:DH:107:VAL:H	1.55	0.41
10:DJ:56:LEU:O	10:DJ:59:LYS:HB2	2.21	0.41
12:DL:64:LEU:HD12	12:DL:65:VAL:N	2.36	0.41
13:DM:113:ILE:O	13:DM:114:LYS:C	2.63	0.41
1:EA:11:ILE:H	1:EA:11:ILE:HG13	1.56	0.41
1:EA:103:LEU:HD11	1:EA:243:PHE:CZ	2.56	0.41
1:EA:456:VAL:O	1:EA:459:ALA:HB3	2.20	0.41
1:EA:778:CYS:SG	1:EA:779:GLY:N	2.93	0.41
1:EA:1202:LEU:HD21	9:EI:101:LEU:HD21	2.02	0.41
1:EA:1264:SER:O	9:EI:56:PHE:HB3	2.20	0.41
1:EA:1532:GLN:O	1:EA:1535:PHE:HB2	2.21	0.41
2:EB:23:SER:HA	2:EB:26:ILE:CD1	2.50	0.41
2:EB:919:SER:OG	2:EB:920:ARG:N	2.52	0.41
2:EB:972:GLY:O	2:EB:977:ILE:N	2.53	0.41
3:EC:47:LEU:HD23	3:EC:48:ASP:N	2.36	0.41
5:EE:112:TYR:CZ	5:EE:136:ASN:HB2	2.56	0.41
7:EG:31:LYS:O	7:EG:33:GLY:N	2.53	0.41
7:EG:58:LEU:HD23	7:EG:89:ILE:HD11	2.02	0.41
7:EG:97:LYS:H	7:EG:97:LYS:HG3	1.53	0.41
8:EH:57:VAL:HG13	8:EH:144:ILE:CG1	2.45	0.41
10:EJ:2:ILE:HG23	10:EJ:3:VAL:N	2.34	0.41
11:EK:53:ALA:HB1	11:EK:104:ARG:HH12	1.85	0.41
1:FA:213:ASN:ND2	1:FA:1606:SER:O	2.54	0.41
1:FA:697:TYR:C	1:FA:699:CYS:H	2.29	0.41
1:FA:732:ILE:H	1:FA:732:ILE:HG12	1.27	0.41
1:FA:771:PHE:HE2	1:FA:776:LEU:HB2	1.84	0.41
1:FA:1347:ALA:HB2	2:FB:269:TYR:CE2	2.55	0.41
2:FB:559:SER:C	2:FB:561:ILE:H	2.29	0.41
2:FB:625:GLU:O	2:FB:642:LEU:HD13	2.20	0.41
2:FB:809:VAL:HG12	2:FB:901:VAL:HB	2.03	0.41
2:FB:1103:VAL:HG12	2:FB:1110:ILE:HG22	2.03	0.41
3:FC:131:THR:HG22	3:FC:132:ILE:H	1.86	0.41
3:FC:132:ILE:HG23	3:FC:132:ILE:HD12	1.82	0.41
3:FC:204:LEU:O	3:FC:204:LEU:HG	2.21	0.41
5:FE:170:LEU:HD13	5:FE:175:LEU:HD23	2.03	0.41
11:FK:68:GLU:HG2	11:FK:72:LEU:HD23	2.03	0.41
13:FM:30:PHE:CE1	13:FM:62:TYR:HE2	2.38	0.41
1:AA:82:PRO:HD3	1:AA:393:SER:OG	2.21	0.41
1:AA:495:ILE:HG22	1:AA:604:LYS:O	2.21	0.41
1:AA:1264:SER:HA	1:AA:1267:ILE:HD12	2.02	0.41
1:AA:1556:GLU:O	1:AA:1559:ARG:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:72:VAL:HG13	2:AB:95:LEU:O	2.20	0.41
2:AB:162:PRO:HB2	2:AB:409:TYR:OH	2.19	0.41
2:AB:260:PHE:HD2	2:AB:276:ILE:HG12	1.86	0.41
2:AB:306:LEU:HD23	2:AB:310:LEU:HG	2.02	0.41
2:AB:1053:ASN:HD22	2:AB:1054:SER:H	1.69	0.41
2:AB:1092:LEU:HD22	2:AB:1092:LEU:HA	1.85	0.41
2:AB:1195:ARG:NH2	2:AB:1197:ARG:HD2	2.32	0.41
3:AC:54:PHE:CZ	3:AC:300:PHE:HB3	2.56	0.41
3:AC:79:ALA:HB3	3:AC:219:PHE:CE1	2.55	0.41
3:AC:269:ASP:C	3:AC:271:ARG:H	2.28	0.41
6:AF:138:LEU:HA	6:AF:139:PRO:HD3	1.89	0.41
8:AH:5:LEU:CB	8:AH:60:ALA:HA	2.41	0.41
14:AN:136:VAL:C	14:AN:137:PHE:CD2	2.99	0.41
1:BA:386:LEU:O	1:BA:389:VAL:HB	2.21	0.41
1:BA:423:LEU:HD23	1:BA:423:LEU:HA	1.77	0.41
1:BA:621:THR:HG23	1:BA:626:ALA:HB3	2.03	0.41
1:BA:1095:LEU:CD2	1:BA:1134:GLY:HA3	2.50	0.41
2:BB:203:ILE:H	2:BB:203:ILE:CD1	2.22	0.41
2:BB:234:ILE:O	2:BB:249:VAL:HA	2.21	0.41
2:BB:387:GLY:O	2:BB:634:ARG:HG3	2.21	0.41
2:BB:542:LEU:HD23	2:BB:542:LEU:HA	1.90	0.41
2:BB:655:TYR:HD1	2:BB:688:HIS:NE2	2.18	0.41
2:BB:1108:GLY:O	2:BB:1198:TYR:HD2	2.04	0.41
3:BC:269:ASP:OD1	3:BC:272:LYS:HE3	2.20	0.41
5:BE:170:LEU:HD13	5:BE:175:LEU:HD23	2.02	0.41
7:BG:57:PRO:CG	7:BG:58:LEU:H	2.34	0.41
7:BG:100:THR:C	7:BG:102:GLU:N	2.79	0.41
7:BG:243:VAL:H	7:BG:243:VAL:HG13	1.45	0.41
8:BH:63:LEU:HB3	8:BH:89:LEU:N	2.35	0.41
13:BM:30:PHE:HE1	13:BM:62:TYR:HE2	1.69	0.41
1:CA:123:ARG:HH11	1:CA:123:ARG:HG2	1.86	0.41
1:CA:556:ALA:C	1:CA:558:ALA:N	2.78	0.41
1:CA:695:TYR:O	1:CA:696:ILE:C	2.63	0.41
1:CA:988:SER:O	2:CB:709:PHE:HE2	2.03	0.41
1:CA:1323:HIS:CD2	1:CA:1454:HIS:HD2	2.39	0.41
1:CA:1532:GLN:O	1:CA:1535:PHE:HB2	2.20	0.41
1:CA:1603:MET:HE1	1:CA:1612:LYS:HA	2.02	0.41
1:CA:1646:LEU:HD11	2:CB:1085:SER:HB3	2.02	0.41
2:CB:216:ALA:C	2:CB:217:ILE:HD12	2.45	0.41
2:CB:373:MET:HE1	2:CB:587:GLN:NE2	2.35	0.41
2:CB:452:ARG:HE	2:CB:452:ARG:HB2	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:890:ASP:OD2	2:CB:892:SER:OG	2.35	0.41
2:CB:944:GLN:HA	2:CB:945:PRO:HD3	1.72	0.41
2:CB:949:ILE:HG13	2:CB:950:ASN:N	2.35	0.41
3:CC:253:PRO:C	3:CC:255:VAL:H	2.28	0.41
7:CG:31:LYS:C	7:CG:33:GLY:N	2.79	0.41
8:CH:12:VAL:HB	8:CH:53:ASP:H	1.85	0.41
11:CK:80:ILE:HG22	11:CK:86:VAL:HG21	2.03	0.41
12:CL:53:HIS:C	12:CL:55:ILE:N	2.77	0.41
13:CM:14:SER:O	13:CM:90:LEU:N	2.50	0.41
14:CN:160:VAL:H	14:CN:160:VAL:HG23	1.61	0.41
1:DA:382:GLN:O	1:DA:386:LEU:HG	2.20	0.41
1:DA:706:HIS:CD2	1:DA:739:VAL:HA	2.56	0.41
1:DA:879:LEU:O	1:DA:883:LEU:N	2.46	0.41
1:DA:1229:ALA:HB2	1:DA:1597:ALA:HB2	2.02	0.41
1:DA:1254:PHE:CD1	1:DA:1535:PHE:HD1	2.39	0.41
1:DA:1275:THR:HG22	9:DI:46:LYS:HB2	2.02	0.41
1:DA:1549:VAL:HG21	1:DA:1561:THR:HG21	2.02	0.41
1:DA:1650:GLY:C	1:DA:1652:GLY:H	2.29	0.41
2:DB:38:LEU:HD13	2:DB:38:LEU:HA	1.88	0.41
2:DB:66:LYS:C	2:DB:68:ILE:N	2.78	0.41
2:DB:350:GLY:O	2:DB:353:VAL:HB	2.20	0.41
2:DB:910:THR:HA	2:DB:911:PRO:HD3	1.96	0.41
2:DB:913:ILE:HD11	2:DB:929:ARG:N	2.36	0.41
2:DB:1002:LYS:HZ2	14:DN:166:LEU:HD13	1.85	0.41
3:DC:40:PHE:CE2	11:DK:131:VAL:HG22	2.55	0.41
3:DC:112:MET:HE1	3:DC:182:CYS:SG	2.61	0.41
3:DC:136:LEU:C	3:DC:137:ASN:HD22	2.29	0.41
3:DC:225:ALA:HB2	3:DC:302:VAL:HG13	2.03	0.41
3:DC:242:GLU:C	3:DC:244:ALA:N	2.78	0.41
5:DE:186:LEU:HD22	5:DE:186:LEU:HA	1.81	0.41
6:DF:86:THR:HG23	6:DF:89:GLU:OE1	2.20	0.41
6:DF:106:PRO:HG2	7:DG:55:GLU:HG2	2.02	0.41
1:EA:114:GLU:O	1:EA:117:ARG:N	2.54	0.41
1:EA:574:ASN:ND2	6:EF:104:ASN:HD21	2.19	0.41
2:EB:824:HIS:O	2:EB:861:TYR:HB2	2.21	0.41
2:EB:929:ARG:HH21	11:EK:95:HIS:HE1	1.68	0.41
3:EC:325:ALA:O	3:EC:328:LEU:HB2	2.21	0.41
8:EH:98:TYR:CD2	8:EH:98:TYR:C	2.99	0.41
1:FA:81:LEU:C	1:FA:83:VAL:H	2.28	0.41
1:FA:481:ARG:O	2:FB:1044:PHE:HA	2.19	0.41
1:FA:520:ARG:O	1:FA:521:GLN:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:975:ASP:CG	1:FA:976:ALA:N	2.79	0.41
1:FA:1032:VAL:HG22	1:FA:1038:ILE:HD12	2.02	0.41
1:FA:1138:GLU:O	1:FA:1141:GLN:HB3	2.20	0.41
1:FA:1251:ALA:O	1:FA:1252:ASP:C	2.64	0.41
1:FA:1456:PHE:HB3	1:FA:1474:LEU:CD1	2.40	0.41
1:FA:1484:LEU:CD2	2:FB:304:ASP:HB3	2.50	0.41
1:FA:1555:VAL:HG13	1:FA:1556:GLU:H	1.84	0.41
2:FB:73:ILE:HG13	2:FB:429:ARG:NH2	2.30	0.41
2:FB:366:GLY:O	2:FB:367:SER:C	2.63	0.41
2:FB:407:PHE:N	2:FB:407:PHE:CD1	2.89	0.41
2:FB:655:TYR:CE2	2:FB:657:PRO:HB2	2.55	0.41
2:FB:888:ILE:HG13	12:FL:55:ILE:HA	2.03	0.41
2:FB:1185:LEU:HD23	2:FB:1186:ASP:N	2.36	0.41
3:FC:101:ILE:C	3:FC:103:LEU:H	2.28	0.41
5:FE:183:PRO:O	5:FE:184:VAL:C	2.64	0.41
7:FG:58:LEU:HA	7:FG:58:LEU:HD23	1.67	0.41
7:FG:77:VAL:HG11	7:FG:124:VAL:HG21	2.01	0.41
7:FG:111:THR:HB	7:FG:112:PRO:HD2	2.03	0.41
13:FM:80:LEU:HD12	13:FM:91:TYR:CE1	2.55	0.41
1:AA:41:LEU:HD23	7:AO:294:GLU:OE1	2.19	0.41
1:AA:244:ARG:HG2	1:AA:245:LYS:H	1.86	0.41
1:AA:369:LEU:HA	1:AA:370:PRO:HD3	1.85	0.41
1:AA:474:LYS:HD3	2:AB:1096:SER:OG	2.21	0.41
1:AA:611:GLU:CD	1:AA:615:ARG:HH11	2.29	0.41
1:AA:759:TYR:HB3	1:AA:920:PHE:CD2	2.56	0.41
1:AA:831:ASP:OD1	1:AA:831:ASP:N	2.40	0.41
1:AA:892:LEU:HG	1:AA:893:ASP:OD1	2.20	0.41
1:AA:1038:ILE:HB	1:AA:1047:GLN:HB2	2.02	0.41
1:AA:1095:LEU:HD21	1:AA:1134:GLY:HA3	2.03	0.41
1:AA:1216:THR:HB	1:AA:1221:ARG:HD3	2.03	0.41
1:AA:1262:LEU:O	1:AA:1265:GLU:HB2	2.20	0.41
1:AA:1539:ASP:O	5:AE:147:HIS:CD2	2.74	0.41
1:AA:1613:MET:HA	1:AA:1618:THR:HA	2.03	0.41
2:AB:97:VAL:O	2:AB:421:LEU:HD22	2.21	0.41
2:AB:463:TYR:C	2:AB:463:TYR:CD1	2.97	0.41
2:AB:792:SER:HB2	2:AB:933:THR:HB	2.02	0.41
2:AB:848:ILE:HD11	12:AL:58:LYS:HG2	2.02	0.41
2:AB:976:GLY:HA3	10:AJ:33:GLY:N	2.35	0.41
3:AC:81:GLU:OE1	3:AC:81:GLU:HA	2.21	0.41
3:AC:103:LEU:O	3:AC:104:VAL:C	2.64	0.41
3:AC:160:ALA:HA	3:AC:196:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:253:PRO:HD2	14:AN:180:PHE:CE1	2.55	0.41
9:AI:8:ILE:H	9:AI:16:LEU:CD1	2.34	0.41
13:AM:26:PHE:CZ	13:AM:98:SER:HB2	2.56	0.41
13:AM:59:ARG:O	13:AM:60:LEU:HD23	2.21	0.41
13:AM:77:VAL:O	14:AN:56:ILE:HD12	2.20	0.41
1:BA:113:VAL:HG11	1:BA:181:LEU:HD23	2.03	0.41
1:BA:188:TYR:O	1:BA:191:MET:N	2.54	0.41
1:BA:484:ILE:HG21	1:BA:633:MET:HG3	2.03	0.41
1:BA:654:ASP:C	1:BA:656:GLN:H	2.29	0.41
1:BA:780:ILE:H	1:BA:780:ILE:HG13	1.73	0.41
1:BA:821:ILE:HD13	2:BB:777:SER:HB2	2.01	0.41
1:BA:905:SER:HB2	9:BI:81:THR:N	2.36	0.41
1:BA:1162:ASN:O	1:BA:1165:LYS:HB2	2.21	0.41
1:BA:1527:GLN:HA	1:BA:1530:TRP:CE3	2.56	0.41
1:BA:1608:SER:OG	1:BA:1632:GLU:OE1	2.39	0.41
1:BA:1650:GLY:HA3	6:BF:88:TYR:CD1	2.55	0.41
2:BB:59:GLY:O	2:BB:60:LEU:C	2.64	0.41
2:BB:95:LEU:HD22	2:BB:440:PHE:CD1	2.56	0.41
2:BB:240:ARG:NH1	2:BB:360:VAL:HG11	2.36	0.41
2:BB:301:PHE:O	2:BB:305:ARG:HG2	2.21	0.41
2:BB:345:SER:HA	13:BM:113:ILE:CD1	2.50	0.41
2:BB:501:ARG:HG3	2:BB:699:ILE:CD1	2.51	0.41
2:BB:636:GLN:HG3	2:BB:637:TYR:N	2.35	0.41
2:BB:692:THR:HB	2:BB:693:PRO:HD2	2.03	0.41
2:BB:731:VAL:HG11	10:BJ:59:LYS:HB3	2.03	0.41
2:BB:832:TRP:HE3	2:BB:834:LYS:H	1.69	0.41
2:BB:838:GLU:C	2:BB:840:LEU:H	2.29	0.41
2:BB:878:GLU:HA	2:BB:879:PRO:HD2	1.79	0.41
2:BB:954:PHE:N	2:BB:955:PRO:HD2	2.36	0.41
2:BB:972:GLY:CA	2:BB:977:ILE:HG22	2.48	0.41
5:BE:17:ARG:NH1	5:BE:36:GLU:HA	2.36	0.41
5:BE:52:ARG:HA	5:BE:53:PRO:HD3	1.84	0.41
5:BE:106:GLN:O	5:BE:131:THR:HG23	2.20	0.41
5:BE:144:ILE:HD13	5:BE:144:ILE:N	2.36	0.41
5:BE:176:PRO:HB2	5:BE:212:ARG:CD	2.51	0.41
6:BF:70:LYS:HA	7:BG:94:PRO:CG	2.51	0.41
7:BG:100:THR:O	7:BG:102:GLU:N	2.54	0.41
8:BH:30:SER:OG	8:BH:33:GLN:N	2.48	0.41
9:BI:33:CYS:O	13:BM:59:ARG:HD3	2.21	0.41
11:BK:54:THR:HG22	11:BK:61:ALA:CA	2.46	0.41
12:BL:63:ARG:HH11	12:BL:63:ARG:HG3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:110:LEU:O	14:BN:119:LEU:HD22	2.21	0.41
7:BO:275:ASN:OD1	7:BO:275:ASN:N	2.54	0.41
1:CA:23:GLU:OE1	2:CB:1195:ARG:NH1	2.54	0.41
1:CA:53:ALA:O	1:CA:54:LEU:HD23	2.21	0.41
1:CA:70:LYS:C	1:CA:71:PHE:CD1	2.97	0.41
1:CA:124:LEU:HA	1:CA:124:LEU:HD23	1.87	0.41
1:CA:509:GLU:HG3	1:CA:579:ARG:CZ	2.51	0.41
1:CA:543:LEU:HD23	1:CA:543:LEU:HA	1.84	0.41
1:CA:771:PHE:CD1	1:CA:793:ILE:HD13	2.56	0.41
1:CA:922:CYS:O	1:CA:924:SER:N	2.53	0.41
1:CA:996:TYR:HE2	1:CA:1000:MET:HE2	1.86	0.41
1:CA:1007:ILE:CG2	2:CB:515:THR:HG22	2.50	0.41
1:CA:1032:VAL:HG22	1:CA:1038:ILE:HD12	2.02	0.41
1:CA:1202:LEU:HD21	9:CI:101:LEU:CD2	2.50	0.41
1:CA:1216:THR:O	1:CA:1217:LEU:HD23	2.20	0.41
1:CA:1217:LEU:HD11	1:CA:1572:ARG:NE	2.36	0.41
1:CA:1217:LEU:CD1	1:CA:1573:TYR:HE1	2.29	0.41
1:CA:1238:MET:O	1:CA:1521:THR:HG23	2.21	0.41
1:CA:1264:SER:OG	1:CA:1494:ARG:HA	2.20	0.41
1:CA:1504:ILE:N	1:CA:1504:ILE:HD12	2.36	0.41
1:CA:1600:ARG:HB2	1:CA:1616:GLU:CD	2.46	0.41
2:CB:260:PHE:CD2	2:CB:276:ILE:HG12	2.56	0.41
2:CB:870:LYS:HE2	2:CB:870:LYS:HB2	1.50	0.41
2:CB:1138:ALA:C	2:CB:1140:LYS:N	2.78	0.41
3:CC:86:PHE:O	3:CC:87:ASN:HB2	2.20	0.41
3:CC:136:LEU:HD13	3:CC:166:ASP:O	2.20	0.41
3:CC:191:ILE:O	3:CC:193:LEU:HD13	2.21	0.41
3:CC:197:ARG:H	3:CC:200:GLN:NE2	2.19	0.41
3:CC:222:VAL:C	3:CC:224:THR:H	2.28	0.41
5:CE:47:CYS:SG	5:CE:53:PRO:HA	2.61	0.41
8:CH:83:GLN:HB2	8:CH:84:ALA:H	1.57	0.41
9:CI:96:TYR:CD1	9:CI:96:TYR:C	2.98	0.41
10:CJ:3:VAL:HG12	10:CJ:15:GLY:HA2	2.03	0.41
1:DA:52:LEU:C	1:DA:54:LEU:N	2.78	0.41
1:DA:57:PHE:CE2	1:DA:58:LEU:HG	2.56	0.41
1:DA:499:PRO:C	1:DA:501:PHE:H	2.28	0.41
1:DA:583:ASN:HA	1:DA:605:VAL:HG12	2.03	0.41
1:DA:824:THR:O	2:DB:1022:LEU:HB3	2.21	0.41
1:DA:827:THR:HB	2:DB:1026:ILE:HB	2.03	0.41
1:DA:1038:ILE:HB	1:DA:1047:GLN:HB2	2.03	0.41
1:DA:1217:LEU:HD11	1:DA:1572:ARG:CD	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1237:GLN:HB3	1:DA:1520:VAL:CG1	2.50	0.41
1:DA:1584:LEU:HD13	1:DA:1584:LEU:HA	1.91	0.41
2:DB:38:LEU:C	2:DB:40:GLU:N	2.78	0.41
2:DB:286:ARG:HG2	13:DM:27:PHE:CB	2.50	0.41
2:DB:397:THR:O	2:DB:398:GLN:C	2.63	0.41
2:DB:465:LEU:HD23	2:DB:465:LEU:HA	1.92	0.41
2:DB:693:PRO:C	2:DB:695:ASN:H	2.29	0.41
2:DB:731:VAL:HG11	10:DJ:59:LYS:HB3	2.03	0.41
2:DB:757:TYR:CE2	2:DB:762:MET:HB3	2.56	0.41
2:DB:917:PHE:CD2	2:DB:1035:ARG:HA	2.54	0.41
3:DC:173:GLY:C	3:DC:175:GLN:N	2.79	0.41
3:DC:210:LEU:H	3:DC:210:LEU:HD12	1.86	0.41
5:DE:144:ILE:N	5:DE:144:ILE:HD13	2.36	0.41
7:DG:48:SER:HB3	7:DG:115:PHE:CE1	2.56	0.41
7:DG:95:LEU:HD23	7:DG:95:LEU:HA	1.69	0.41
8:DH:33:GLN:HG3	8:DH:131:ASN:HD21	1.86	0.41
8:DH:63:LEU:CB	8:DH:88:SER:HB2	2.50	0.41
8:DH:108:SER:O	8:DH:109:LYS:C	2.64	0.41
10:DJ:12:LYS:HD3	10:DJ:13:VAL:O	2.21	0.41
10:DJ:26:GLN:OE1	10:DJ:26:GLN:HA	2.21	0.41
11:DK:57:ASP:OD1	11:DK:58:GLY:N	2.54	0.41
11:DK:68:GLU:HG2	11:DK:72:LEU:HD23	2.03	0.41
13:DM:66:THR:HB	13:DM:71:GLN:HG3	2.02	0.41
1:EA:75:HIS:O	1:EA:76:GLN:C	2.63	0.41
1:EA:121:LYS:HE3	1:EA:219:LEU:HD13	2.02	0.41
1:EA:391:THR:O	1:EA:395:LEU:HG	2.21	0.41
1:EA:395:LEU:HD21	7:EO:280:PHE:CD2	2.56	0.41
1:EA:431:GLN:O	1:EA:434:VAL:HB	2.21	0.41
1:EA:551:VAL:HB	1:EA:552:GLU:H	1.70	0.41
1:EA:818:THR:O	1:EA:821:ILE:HG22	2.20	0.41
1:EA:855:ARG:HH12	1:EA:867:ASP:C	2.29	0.41
1:EA:896:THR:HG21	1:EA:956:ARG:HH12	1.86	0.41
1:EA:934:LYS:HG3	2:EB:956:SER:HB3	2.03	0.41
1:EA:1018:TYR:O	1:EA:1022:CYS:N	2.43	0.41
1:EA:1168:ALA:O	1:EA:1170:MET:N	2.54	0.41
1:EA:1200:MET:HG2	1:EA:1573:TYR:CD2	2.56	0.41
1:EA:1344:ILE:H	1:EA:1344:ILE:HD12	1.85	0.41
1:EA:1527:GLN:HG3	1:EA:1530:TRP:CZ3	2.55	0.41
1:EA:1539:ASP:O	5:EE:147:HIS:NE2	2.54	0.41
1:EA:1553:TYR:HD1	5:EE:144:ILE:HB	1.86	0.41
1:EA:1582:LEU:N	1:EA:1582:LEU:HD23	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1590:THR:C	1:EA:1592:GLN:N	2.79	0.41
2:EB:38:LEU:H	2:EB:38:LEU:CD2	2.33	0.41
2:EB:71:LYS:HB3	2:EB:425:ILE:CD1	2.50	0.41
2:EB:161:LEU:HD12	2:EB:162:PRO:CD	2.47	0.41
2:EB:366:GLY:O	2:EB:367:SER:C	2.63	0.41
2:EB:642:LEU:HD22	2:EB:642:LEU:HA	1.76	0.41
2:EB:658:LEU:HD12	2:EB:658:LEU:HA	1.97	0.41
2:EB:837:LEU:HD22	2:EB:837:LEU:HA	1.54	0.41
2:EB:870:LYS:HE2	2:EB:870:LYS:HB2	1.44	0.41
2:EB:996:PHE:HA	2:EB:999:GLN:HG3	2.03	0.41
2:EB:1018:THR:HB	2:EB:1020:GLU:OE1	2.21	0.41
2:EB:1053:ASN:O	2:EB:1057:MET:HE2	2.21	0.41
2:EB:1153:ILE:HD12	2:EB:1154:ASP:H	1.86	0.41
3:EC:41:GLU:O	3:EC:57:ILE:HD12	2.20	0.41
3:EC:134:LEU:O	3:EC:206:ALA:N	2.49	0.41
4:ED:46:GLU:OE1	7:EG:62:MET:HE1	2.21	0.41
5:EE:55:ARG:O	5:EE:58:MET:HB2	2.20	0.41
5:EE:175:LEU:HD22	5:EE:175:LEU:HA	1.60	0.41
7:EG:27:PRO:O	7:EG:35:SER:HA	2.21	0.41
7:EG:230:ARG:O	7:EG:249:LEU:HD21	2.21	0.41
13:EM:65:TYR:C	13:EM:65:TYR:CD2	2.99	0.41
1:FA:88:PRO:HB3	1:FA:435:ASN:OD1	2.20	0.41
1:FA:89:LEU:HD13	1:FA:89:LEU:O	2.20	0.41
1:FA:657:TYR:HE2	1:FA:795:HIS:HA	1.86	0.41
1:FA:723:TYR:HD1	1:FA:723:TYR:HA	1.74	0.41
1:FA:741:PRO:HA	1:FA:742:PRO:HD3	1.90	0.41
1:FA:843:ARG:NH2	1:FA:945:CYS:O	2.53	0.41
1:FA:1066:PHE:HB3	1:FA:1147:PHE:CE2	2.56	0.41
1:FA:1238:MET:O	1:FA:1521:THR:HG23	2.20	0.41
1:FA:1325:LEU:HD12	1:FA:1329:ILE:HD12	2.03	0.41
1:FA:1335:LYS:HG3	1:FA:1335:LYS:O	2.21	0.41
1:FA:1649:VAL:O	1:FA:1652:GLY:N	2.44	0.41
2:FB:46:ILE:HG22	2:FB:50:ASN:HD21	1.86	0.41
2:FB:359:LEU:HD23	2:FB:359:LEU:HA	1.53	0.41
2:FB:425:ILE:HG22	2:FB:426:ALA:N	2.36	0.41
2:FB:579:ALA:O	2:FB:583:LEU:HD11	2.21	0.41
2:FB:714:ARG:HA	2:FB:714:ARG:HD3	1.69	0.41
2:FB:891:GLU:O	2:FB:892:SER:C	2.64	0.41
2:FB:897:GLU:HB3	12:FL:43:THR:HG23	2.01	0.41
2:FB:1000:LEU:CD1	2:FB:1009:GLY:HA2	2.51	0.41
2:FB:1011:GLU:C	2:FB:1025:ASP:HB3	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:1091:ARG:HA	2:FB:1091:ARG:HD2	1.69	0.41
2:FB:1153:ILE:CD1	2:FB:1154:ASP:H	2.34	0.41
3:FC:54:PHE:N	3:FC:54:PHE:CD1	2.88	0.41
3:FC:63:ILE:O	3:FC:66:ALA:HB3	2.21	0.41
3:FC:103:LEU:O	3:FC:104:VAL:C	2.62	0.41
3:FC:128:ASP:C	3:FC:130:ASN:N	2.78	0.41
3:FC:242:GLU:C	3:FC:244:ALA:N	2.79	0.41
5:FE:23:VAL:HG12	5:FE:28:TYR:HB2	2.02	0.41
5:FE:182:ASP:OD2	5:FE:184:VAL:HG23	2.21	0.41
6:FF:105:ALA:HA	6:FF:106:PRO:HD3	1.93	0.41
8:FH:40:LEU:HG	8:FH:42:ILE:HG12	2.02	0.41
8:FH:102:TYR:CD2	8:FH:102:TYR:N	2.89	0.41
13:FM:62:TYR:C	13:FM:63:GLU:HG3	2.45	0.41
1:AA:49:LEU:HD23	1:AA:49:LEU:HA	1.82	0.41
1:AA:914:ASP:O	1:AA:919:LYS:NZ	2.33	0.41
1:AA:983:LYS:HZ3	1:AA:983:LYS:HG3	1.75	0.41
1:AA:1229:ALA:HB1	1:AA:1595:TYR:CD2	2.56	0.41
2:AB:71:LYS:HB3	2:AB:425:ILE:CD1	2.51	0.41
2:AB:95:LEU:HD21	2:AB:143:TRP:CZ2	2.56	0.41
2:AB:346:ASP:CG	13:AM:113:ILE:HA	2.45	0.41
2:AB:378:ILE:H	2:AB:378:ILE:HG12	1.61	0.41
2:AB:548:LYS:HA	2:AB:550:ARG:CZ	2.51	0.41
6:AF:65:ARG:HB3	6:AF:65:ARG:NH1	2.36	0.41
7:AG:29:ASP:C	7:AG:31:LYS:N	2.79	0.41
7:AG:80:VAL:HG12	7:AG:82:LEU:CD2	2.51	0.41
8:AH:97:MET:N	8:AH:142:LEU:O	2.49	0.41
9:AI:32:GLN:O	13:AM:104:SER:OG	2.35	0.41
9:AI:77:LYS:HD3	9:AI:77:LYS:HA	1.90	0.41
9:AI:95:ASN:HB2	9:AI:113:THR:HB	2.02	0.41
13:AM:16:GLN:CG	13:AM:17:ASP:H	2.31	0.41
1:BA:32:ILE:HG21	1:BA:49:LEU:CD2	2.51	0.41
1:BA:573:LEU:HD11	4:BD:16:LEU:HD11	2.03	0.41
1:BA:595:LEU:HD22	1:BA:595:LEU:HA	1.68	0.41
1:BA:741:PRO:C	1:BA:743:ASP:H	2.29	0.41
1:BA:1070:LEU:HD13	1:BA:1166:PHE:CD1	2.56	0.41
1:BA:1097:TYR:HD2	1:BA:1123:VAL:HG13	1.86	0.41
1:BA:1321:PHE:CD2	1:BA:1321:PHE:C	2.95	0.41
2:BB:21:ARG:HD3	2:BB:763:ASP:HB3	2.03	0.41
2:BB:71:LYS:HB3	2:BB:425:ILE:HG13	2.02	0.41
2:BB:168:ASN:OD1	2:BB:169:ARG:HG2	2.21	0.41
2:BB:273:VAL:O	2:BB:277:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:669:GLN:HA	2:BB:672:MET:CG	2.51	0.41
3:BC:131:THR:HG23	3:BC:209:ILE:HG22	2.03	0.41
3:BC:172:GLN:HB2	3:BC:175:GLN:NE2	2.35	0.41
3:BC:216:HIS:ND1	3:BC:218:LYS:HD2	2.36	0.41
3:BC:333:ILE:HD12	3:BC:333:ILE:HA	1.80	0.41
5:BE:83:CYS:HB2	5:BE:110:PHE:CZ	2.55	0.41
11:BK:138:LYS:O	11:BK:142:MET:HB2	2.20	0.41
14:BN:109:LEU:O	14:BN:110:LEU:HD23	2.20	0.41
1:CA:560:GLN:O	1:CA:575:LYS:NZ	2.32	0.41
1:CA:865:ASP:CG	1:CA:866:LYS:N	2.78	0.41
1:CA:872:ASP:OD1	1:CA:873:PRO:HD2	2.21	0.41
1:CA:1148:LEU:HD11	1:CA:1167:ARG:HB2	2.03	0.41
2:CB:624:LEU:HD12	2:CB:625:GLU:H	1.86	0.41
2:CB:674:ILE:HG23	2:CB:688:HIS:CB	2.46	0.41
2:CB:1077:ASP:O	2:CB:1078:ALA:C	2.63	0.41
3:CC:81:GLU:OE1	12:CL:70:ARG:NH1	2.54	0.41
5:CE:20:LYS:NZ	5:CE:37:LEU:HD22	2.36	0.41
7:CG:100:THR:C	7:CG:102:GLU:N	2.79	0.41
8:CH:47:PHE:HB2	8:CH:95:TYR:CD1	2.56	0.41
10:CJ:49:MET:HG2	10:CJ:49:MET:H	1.61	0.41
12:CL:33:GLU:HG3	12:CL:53:HIS:ND1	2.36	0.41
1:DA:1159:ASP:C	1:DA:1161:VAL:N	2.78	0.41
2:DB:286:ARG:HD2	9:DI:9:PHE:CG	2.56	0.41
2:DB:497:ILE:HD12	2:DB:497:ILE:HA	1.75	0.41
3:DC:105:PRO:HB2	3:DC:187:ALA:HB3	2.02	0.41
3:DC:117:ASP:O	3:DC:125:LYS:HG3	2.20	0.41
7:DG:39:VAL:O	7:DG:123:TYR:HA	2.21	0.41
8:DH:103:LYS:HB3	8:DH:115:TYR:HB2	2.03	0.41
11:DK:50:LEU:O	11:DK:54:THR:HG23	2.21	0.41
11:DK:62:SER:HA	11:DK:103:ILE:O	2.21	0.41
1:EA:39:ASP:OD1	1:EA:41:LEU:N	2.51	0.41
1:EA:394:LEU:C	1:EA:396:ILE:N	2.77	0.41
1:EA:399:LEU:HD11	7:EO:270:LEU:HB3	2.02	0.41
1:EA:422:ARG:HD2	7:EO:271:PRO:O	2.21	0.41
1:EA:423:LEU:HD23	1:EA:423:LEU:HA	1.83	0.41
1:EA:475:ARG:NH1	2:EB:1068:GLY:O	2.54	0.41
1:EA:545:SER:CB	1:EA:547:ILE:HG13	2.50	0.41
1:EA:750:ILE:H	1:EA:750:ILE:HG13	1.70	0.41
1:EA:905:SER:OG	1:EA:906:GLN:N	2.53	0.41
1:EA:1242:ILE:HA	1:EA:1536:ILE:HA	2.03	0.41
1:EA:1258:ILE:HD13	1:EA:1258:ILE:HG21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1459:LYS:HE3	1:EA:1459:LYS:HB3	1.95	0.41
1:EA:1582:LEU:O	1:EA:1583:ASP:C	2.63	0.41
2:EB:315:LYS:HG3	2:EB:316:ARG:N	2.35	0.41
2:EB:387:GLY:O	2:EB:634:ARG:HG3	2.21	0.41
2:EB:852:VAL:O	2:EB:879:PRO:HA	2.21	0.41
2:EB:873:THR:HG1	2:EB:875:HIS:CD2	2.39	0.41
3:EC:66:ALA:O	3:EC:70:ILE:HG13	2.20	0.41
6:EF:97:ARG:O	6:EF:100:GLN:HB2	2.21	0.41
8:EH:63:LEU:CB	8:EH:88:SER:HB2	2.48	0.41
12:EL:30:ILE:HD12	12:EL:59:ALA:HB2	2.03	0.41
14:EN:64:ILE:C	14:EN:66:LYS:N	2.78	0.41
1:FA:24:ILE:HD13	1:FA:359:VAL:HG23	2.03	0.41
1:FA:362:VAL:HA	1:FA:363:PRO:HD3	1.94	0.41
1:FA:669:LEU:HD13	1:FA:673:HIS:CB	2.50	0.41
1:FA:1102:LEU:HD12	1:FA:1102:LEU:HA	1.57	0.41
1:FA:1202:LEU:HD22	9:FI:99:LEU:CD2	2.47	0.41
1:FA:1608:SER:OG	1:FA:1632:GLU:OE1	2.39	0.41
2:FB:38:LEU:H	2:FB:38:LEU:HD22	1.85	0.41
2:FB:275:MET:SD	2:FB:330:LEU:HD21	2.62	0.41
2:FB:789:ILE:HD13	2:FB:789:ILE:HA	1.84	0.41
2:FB:1160:GLU:HG2	2:FB:1166:LYS:HG2	2.03	0.41
2:FB:1178:ILE:HB	2:FB:1179:PRO:HD2	2.03	0.41
3:FC:67:PHE:O	3:FC:70:ILE:HB	2.20	0.41
3:FC:96:VAL:O	3:FC:97:LEU:C	2.64	0.41
3:FC:333:ILE:HD11	11:FK:49:LEU:N	2.36	0.41
7:FG:163:PRO:C	7:FG:165:ASP:H	2.29	0.41
14:FN:110:LEU:HB3	14:FN:119:LEU:HB3	2.03	0.41
1:AA:631:ASP:OD1	1:AA:631:ASP:N	2.47	0.40
1:AA:713:VAL:HB	1:AA:738:ASN:HD21	1.85	0.40
1:AA:1117:SER:C	1:AA:1119:LYS:N	2.77	0.40
1:AA:1316:VAL:HG13	1:AA:1320:GLN:CG	2.51	0.40
2:AB:905:TYR:CD1	2:AB:905:TYR:N	2.89	0.40
2:AB:1150:LYS:N	2:AB:1150:LYS:HD3	2.36	0.40
3:AC:87:ASN:OD1	3:AC:88:ASN:N	2.54	0.40
3:AC:164:ALA:O	3:AC:167:LEU:HG	2.22	0.40
3:AC:328:LEU:HD13	3:AC:328:LEU:HA	1.57	0.40
5:AE:80:VAL:HG13	5:AE:109:ILE:HB	2.02	0.40
7:AG:10:ASN:HB3	7:AG:11:ARG:H	1.44	0.40
8:AH:33:GLN:HG3	8:AH:131:ASN:HD21	1.86	0.40
9:AI:13:CYS:HA	13:AM:100:VAL:HG11	2.04	0.40
9:AI:60:LEU:HD23	9:AI:60:LEU:HA	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:95:ASN:N	9:AI:113:THR:O	2.47	0.40
11:AK:119:LYS:O	11:AK:123:ASP:HB2	2.22	0.40
13:AM:7:VAL:HA	14:AN:73:ASP:OD2	2.21	0.40
1:BA:232:LYS:HB2	1:BA:232:LYS:HE3	1.95	0.40
1:BA:584:ARG:HD3	6:BF:116:ASP:OD2	2.21	0.40
1:BA:968:SER:HB2	2:BB:676:VAL:HG23	2.02	0.40
1:BA:1239:THR:HG23	1:BA:1520:VAL:HG13	2.03	0.40
1:BA:1271:ILE:HG22	9:BI:48:VAL:HG12	2.02	0.40
1:BA:1655:ASP:O	6:BF:134:ILE:HG12	2.21	0.40
2:BB:71:LYS:HB3	2:BB:425:ILE:CD1	2.51	0.40
2:BB:215:MET:HE3	2:BB:217:ILE:HD11	2.03	0.40
2:BB:215:MET:HE3	2:BB:394:PRO:HB3	2.02	0.40
2:BB:470:LEU:HD12	2:BB:470:LEU:HA	1.79	0.40
2:BB:852:VAL:O	2:BB:879:PRO:HA	2.22	0.40
2:BB:885:VAL:HA	2:BB:903:ILE:HG22	2.02	0.40
2:BB:1070:ARG:HD3	2:BB:1072:GLY:HA2	2.04	0.40
3:BC:51:GLU:HB3	3:BC:303:GLU:HA	2.03	0.40
3:BC:75:VAL:HA	3:BC:76:PRO:HD3	1.81	0.40
3:BC:197:ARG:HG2	10:BJ:61:LEU:HB3	2.03	0.40
5:BE:3:GLN:O	5:BE:7:ARG:HG2	2.21	0.40
6:BF:99:LEU:HB3	7:BG:112:PRO:HD3	2.02	0.40
8:BH:108:SER:O	8:BH:110:ASP:N	2.55	0.40
13:BM:21:VAL:HG21	13:BM:78:VAL:HG11	2.03	0.40
13:BM:44:LYS:HA	13:BM:44:LYS:HD2	1.66	0.40
13:BM:59:ARG:O	13:BM:60:LEU:HD23	2.21	0.40
1:CA:670:ILE:O	1:CA:673:HIS:HB2	2.21	0.40
1:CA:713:VAL:HB	1:CA:738:ASN:ND2	2.34	0.40
1:CA:1159:ASP:O	1:CA:1161:VAL:N	2.54	0.40
1:CA:1306:TYR:OH	9:CI:60:LEU:HB2	2.21	0.40
1:CA:1493:CYS:C	1:CA:1495:LYS:N	2.78	0.40
2:CB:315:LYS:HG3	2:CB:316:ARG:N	2.36	0.40
2:CB:477:ASP:O	2:CB:478:LEU:HG	2.20	0.40
2:CB:699:ILE:HD13	2:CB:699:ILE:N	2.31	0.40
2:CB:964:VAL:H	2:CB:964:VAL:HG23	1.61	0.40
3:CC:132:ILE:HD13	3:CC:132:ILE:HA	1.71	0.40
3:CC:323:ASN:O	3:CC:324:LYS:C	2.64	0.40
5:CE:164:LEU:HD12	5:CE:164:LEU:HA	1.79	0.40
14:CN:80:MET:HE3	14:CN:80:MET:HB2	1.57	0.40
1:DA:37:VAL:O	1:DA:38:LEU:HD23	2.21	0.40
1:DA:481:ARG:O	2:DB:1044:PHE:HA	2.21	0.40
1:DA:530:TRP:CZ2	1:DA:607:VAL:HG21	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:750:ILE:H	1:DA:750:ILE:HG13	1.69	0.40
1:DA:1006:LEU:HD21	9:DI:100:GLN:NE2	2.36	0.40
1:DA:1237:GLN:CG	1:DA:1544:ASN:HD22	2.33	0.40
1:DA:1251:ALA:O	1:DA:1253:THR:N	2.54	0.40
1:DA:1321:PHE:CD2	1:DA:1321:PHE:C	2.98	0.40
1:DA:1336:GLN:C	1:DA:1338:ARG:H	2.29	0.40
2:DB:28:PRO:HA	2:DB:29:PRO:HD3	1.92	0.40
2:DB:286:ARG:HG2	13:DM:27:PHE:CD1	2.56	0.40
2:DB:795:GLU:OE2	3:DC:216:HIS:HA	2.20	0.40
2:DB:970:LYS:NZ	2:DB:1029:GLY:HA2	2.36	0.40
3:DC:164:ALA:HB3	3:DC:189:PRO:O	2.21	0.40
6:DF:138:LEU:HA	6:DF:139:PRO:HD3	1.92	0.40
6:DF:141:GLY:O	6:DF:143:PHE:HD2	2.03	0.40
7:DG:163:PRO:HG2	7:DG:166:TRP:NE1	2.36	0.40
8:DH:118:PHE:CD2	8:DH:118:PHE:N	2.88	0.40
9:DI:23:VAL:HB	9:DI:39:LYS:HE3	2.03	0.40
11:DK:120:GLY:O	11:DK:121:LEU:C	2.62	0.40
7:DO:272:ILE:O	7:DO:275:ASN:HB3	2.21	0.40
1:EA:52:LEU:C	1:EA:54:LEU:N	2.78	0.40
1:EA:522:ALA:O	1:EA:525:ASN:N	2.55	0.40
1:EA:556:ALA:C	1:EA:558:ALA:N	2.77	0.40
1:EA:756:LYS:C	1:EA:758:GLU:H	2.29	0.40
1:EA:1176:ARG:HD3	6:EF:84:TYR:CE1	2.56	0.40
1:EA:1191:GLN:C	1:EA:1193:VAL:N	2.78	0.40
2:EB:95:LEU:HD22	2:EB:440:PHE:CD1	2.56	0.40
2:EB:210:ARG:HH21	2:EB:667:PHE:HB2	1.86	0.40
2:EB:586:VAL:HB	2:EB:593:ILE:HG22	2.02	0.40
2:EB:878:GLU:OE2	2:EB:907:ILE:HG23	2.21	0.40
2:EB:896:GLN:O	2:EB:897:GLU:C	2.63	0.40
3:EC:86:PHE:O	3:EC:87:ASN:HB2	2.21	0.40
3:EC:104:VAL:HA	3:EC:105:PRO:HD3	1.95	0.40
4:ED:93:GLN:O	4:ED:97:LYS:HE3	2.20	0.40
5:EE:139:ALA:O	5:EE:141:VAL:N	2.53	0.40
6:EF:138:LEU:HA	6:EF:139:PRO:HD3	1.95	0.40
7:EG:106:LYS:HG3	7:EG:107:ILE:N	2.35	0.40
7:EG:163:PRO:HB2	7:EG:166:TRP:CD1	2.56	0.40
10:EJ:13:VAL:O	10:EJ:17:LYS:NZ	2.52	0.40
11:EK:112:THR:O	11:EK:113:ALA:C	2.64	0.40
1:FA:435:ASN:C	1:FA:437:PHE:N	2.79	0.40
1:FA:509:GLU:HA	1:FA:510:PRO:HD3	1.81	0.40
1:FA:607:VAL:O	1:FA:608:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:712:ILE:N	11:FK:106:GLN:OE1	2.45	0.40
1:FA:957:VAL:HG13	1:FA:958:PRO:HD2	2.03	0.40
1:FA:1076:LEU:HA	1:FA:1076:LEU:HD23	1.72	0.40
1:FA:1196:PRO:C	1:FA:1198:THR:N	2.79	0.40
1:FA:1323:HIS:CD2	1:FA:1454:HIS:CD2	3.08	0.40
1:FA:1458:THR:HG23	1:FA:1473:LYS:O	2.20	0.40
1:FA:1556:GLU:HG3	5:FE:153:HIS:NE2	2.36	0.40
1:FA:1613:MET:C	1:FA:1615:TYR:H	2.28	0.40
2:FB:181:VAL:HG22	10:FJ:63:TYR:OH	2.21	0.40
2:FB:475:GLY:O	2:FB:477:ASP:N	2.54	0.40
2:FB:878:GLU:HA	2:FB:879:PRO:HD2	1.77	0.40
2:FB:962:MET:O	2:FB:963:PHE:C	2.64	0.40
2:FB:1043:LYS:HB3	2:FB:1063:ARG:HH11	1.86	0.40
3:FC:117:ASP:O	3:FC:125:LYS:HG3	2.21	0.40
5:FE:8:ASN:HA	5:FE:11:ARG:HG3	2.03	0.40
7:FG:92:ALA:O	7:FG:94:PRO:HD3	2.20	0.40
11:FK:70:HIS:O	11:FK:71:THR:C	2.64	0.40
13:FM:30:PHE:HE1	13:FM:62:TYR:HE2	1.69	0.40
14:FN:59:PRO:HG2	14:FN:62:VAL:HG23	2.02	0.40
1:AA:9:SER:OG	4:AD:20:VAL:HG21	2.20	0.40
1:AA:10:GLU:HG3	1:AA:1645:LYS:HE3	2.02	0.40
1:AA:65:CYS:HB2	2:AB:1115:GLN:HB2	2.03	0.40
1:AA:197:LEU:HD23	1:AA:202:THR:O	2.21	0.40
1:AA:388:LYS:HG2	7:AO:281:ASP:OD2	2.20	0.40
1:AA:1102:LEU:HD12	1:AA:1102:LEU:HA	1.62	0.40
1:AA:1183:GLU:HA	6:AF:88:TYR:OH	2.21	0.40
1:AA:1243:TRP:HA	1:AA:1243:TRP:CE3	2.56	0.40
1:AA:1659:LYS:HA	7:AG:104:LEU:HD23	2.01	0.40
2:AB:156:ARG:HD2	2:AB:156:ARG:HA	1.53	0.40
2:AB:184:LYS:HE2	2:AB:735:HIS:CD2	2.56	0.40
2:AB:532:HIS:CE1	2:AB:544:HIS:CE1	3.10	0.40
2:AB:586:VAL:O	2:AB:593:ILE:HG22	2.21	0.40
2:AB:738:ASP:O	2:AB:806:THR:OG1	2.35	0.40
2:AB:960:ILE:H	2:AB:960:ILE:HG12	1.39	0.40
2:AB:1178:ILE:O	2:AB:1178:ILE:HG13	2.21	0.40
3:AC:146:ALA:O	3:AC:148:LYS:N	2.55	0.40
4:AD:33:THR:HG23	4:AD:96:PHE:CD1	2.56	0.40
5:AE:20:LYS:NZ	5:AE:37:LEU:HD22	2.36	0.40
5:AE:90:VAL:HG13	5:AE:120:ALA:HA	2.04	0.40
7:AG:43:ILE:HD12	7:AG:43:ILE:C	2.46	0.40
7:AG:46:TYR:CD1	7:AG:117:TRP:HD1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:57:PRO:O	7:AG:61:VAL:HG23	2.21	0.40
7:AG:166:TRP:CE2	7:AG:219:ASP:HB2	2.56	0.40
8:AH:57:VAL:HG13	8:AH:144:ILE:CG1	2.49	0.40
8:AH:81:PRO:HA	8:AH:82:PRO:HD2	1.83	0.40
1:BA:11:ILE:H	1:BA:11:ILE:HG13	1.56	0.40
1:BA:197:LEU:HD21	1:BA:203:THR:O	2.21	0.40
1:BA:899:LYS:O	1:BA:903:ILE:HG12	2.22	0.40
1:BA:1086:ILE:HD13	1:BA:1086:ILE:HA	1.83	0.40
1:BA:1200:MET:SD	1:BA:1218:GLY:HA2	2.61	0.40
1:BA:1264:SER:OG	1:BA:1494:ARG:HA	2.21	0.40
1:BA:1549:VAL:HG21	1:BA:1561:THR:HG21	2.03	0.40
1:BA:1557:ALA:HA	5:BE:149:LEU:O	2.21	0.40
1:BA:1603:MET:O	1:BA:1606:SER:N	2.46	0.40
1:BA:1660:VAL:HA	1:BA:1661:PRO:HD3	1.95	0.40
2:BB:46:ILE:HG22	2:BB:50:ASN:ND2	2.36	0.40
2:BB:324:THR:HG23	2:BB:347:LEU:HD21	2.03	0.40
2:BB:468:GLY:O	2:BB:482:SER:HA	2.22	0.40
2:BB:653:VAL:C	2:BB:691:PHE:HE2	2.29	0.40
2:BB:942:GLY:C	2:BB:943:ILE:HD12	2.46	0.40
2:BB:970:LYS:NZ	2:BB:1028:VAL:O	2.42	0.40
2:BB:1060:VAL:HG22	2:BB:1061:LYS:H	1.85	0.40
2:BB:1116:SER:HB3	2:BB:1125:THR:H	1.87	0.40
3:BC:70:ILE:HG21	3:BC:317:SER:HA	2.04	0.40
6:BF:70:LYS:HA	7:BG:94:PRO:HG2	2.03	0.40
6:BF:76:LYS:HG3	6:BF:79:ARG:CZ	2.51	0.40
7:BG:122:LEU:HD22	7:BG:122:LEU:HA	1.88	0.40
8:BH:33:GLN:HB2	8:BH:36:CYS:CB	2.50	0.40
8:BH:83:GLN:HB2	8:BH:84:ALA:H	1.58	0.40
11:BK:83:ASN:HA	11:BK:84:PRO:HD2	1.87	0.40
14:BN:97:SER:CB	14:BN:105:SER:HB3	2.50	0.40
14:BN:155:VAL:HG13	14:BN:156:PRO:HD2	2.03	0.40
1:CA:19:LEU:HD23	1:CA:19:LEU:HA	1.84	0.40
1:CA:382:GLN:O	1:CA:386:LEU:HG	2.22	0.40
1:CA:467:PHE:N	1:CA:467:PHE:CD1	2.90	0.40
1:CA:644:ARG:NH2	6:CF:118:LEU:HD23	2.36	0.40
1:CA:790:LYS:C	1:CA:792:GLY:N	2.79	0.40
1:CA:1003:ARG:NH2	2:CB:533:THR:HG21	2.35	0.40
1:CA:1015:ARG:H	1:CA:1015:ARG:HG3	1.76	0.40
1:CA:1062:HIS:HD2	1:CA:1068:PHE:CD1	2.39	0.40
1:CA:1196:PRO:C	1:CA:1198:THR:N	2.78	0.40
1:CA:1241:PRO:HG3	1:CA:1540:GLY:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1321:PHE:HD1	1:CA:1496:SER:OG	2.04	0.40
2:CB:67:ASP:O	2:CB:68:ILE:HD13	2.21	0.40
2:CB:104:ILE:CB	2:CB:169:ARG:HG3	2.51	0.40
2:CB:550:ARG:O	2:CB:551:ILE:HD13	2.21	0.40
2:CB:888:ILE:CG1	12:CL:55:ILE:HA	2.51	0.40
3:CC:71:MET:HG2	3:CC:71:MET:H	1.52	0.40
7:CG:59:GLN:O	7:CG:60:GLY:C	2.64	0.40
10:CJ:49:MET:HE3	10:CJ:49:MET:HB3	1.89	0.40
7:CO:278:ILE:O	7:CO:281:ASP:HB2	2.22	0.40
1:DA:187:GLU:HG3	1:DA:188:TYR:N	2.37	0.40
1:DA:659:THR:HG23	1:DA:664:SER:O	2.21	0.40
1:DA:758:GLU:O	1:DA:761:GLY:N	2.45	0.40
1:DA:1022:CYS:HA	1:DA:1615:TYR:OH	2.19	0.40
1:DA:1102:LEU:HD13	1:DA:1105:ARG:HH21	1.86	0.40
1:DA:1240:LEU:O	1:DA:1518:VAL:HA	2.20	0.40
1:DA:1272:VAL:C	1:DA:1273:THR:OG1	2.65	0.40
1:DA:1657:LEU:HA	7:DG:107:ILE:HG12	2.02	0.40
2:DB:202:LEU:HD13	2:DB:500:PHE:CD2	2.56	0.40
2:DB:322:ASN:O	2:DB:326:VAL:HG23	2.21	0.40
2:DB:823:GLN:HG3	2:DB:861:TYR:CD2	2.56	0.40
2:DB:1082:HIS:HB2	2:DB:1084:THR:HG23	2.03	0.40
2:DB:1176:VAL:HG22	2:DB:1177:ALA:N	2.36	0.40
3:DC:55:ASP:C	3:DC:56:LEU:HD23	2.46	0.40
3:DC:87:ASN:OD1	12:DL:60:ARG:HD3	2.21	0.40
3:DC:115:TRP:HB3	3:DC:116:VAL:H	1.69	0.40
5:DE:75:MET:HE1	5:DE:155:ARG:NH2	2.35	0.40
7:DG:162:ILE:HG13	7:DG:162:ILE:H	1.66	0.40
9:DI:34:LYS:HA	9:DI:34:LYS:HD3	1.92	0.40
10:DJ:8:PHE:HD1	10:DJ:8:PHE:HA	1.68	0.40
1:EA:826:PHE:H	2:EB:776:ILE:HD11	1.86	0.40
1:EA:852:ASP:OD1	1:EA:855:ARG:NE	2.52	0.40
1:EA:966:LEU:HD11	1:EA:968:SER:HB3	2.03	0.40
1:EA:1105:ARG:NH2	1:EA:1138:GLU:OE2	2.49	0.40
1:EA:1162:ASN:O	1:EA:1165:LYS:HB2	2.22	0.40
1:EA:1170:MET:O	1:EA:1173:LYS:N	2.54	0.40
1:EA:1244:ASN:HA	1:EA:1517:ARG:HH11	1.87	0.40
1:EA:1336:GLN:C	1:EA:1338:ARG:H	2.29	0.40
1:EA:1596:LEU:HD23	1:EA:1596:LEU:HA	1.80	0.40
2:EB:22:GLU:O	2:EB:26:ILE:HG13	2.22	0.40
2:EB:215:MET:SD	2:EB:399:HIS:HB3	2.61	0.40
2:EB:256:GLY:O	2:EB:257:GLN:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:577:PHE:HD1	2:EB:577:PHE:HA	1.78	0.40
2:EB:845:LEU:HD12	12:EL:58:LYS:CD	2.48	0.40
2:EB:904:LYS:C	2:EB:905:TYR:CD1	2.93	0.40
2:EB:910:THR:HA	2:EB:911:PRO:HD3	1.96	0.40
2:EB:972:GLY:O	2:EB:976:GLY:N	2.52	0.40
3:EC:131:THR:HG22	3:EC:132:ILE:H	1.86	0.40
3:EC:140:CYS:CB	3:EC:196:LEU:HD13	2.51	0.40
6:EF:116:ASP:OD1	6:EF:118:LEU:N	2.47	0.40
9:EI:82:ILE:N	9:EI:94:MET:O	2.52	0.40
1:FA:522:ALA:O	1:FA:525:ASN:N	2.55	0.40
1:FA:618:TYR:O	1:FA:620:ASN:N	2.54	0.40
1:FA:650:LEU:HD11	6:FF:88:TYR:HD1	1.87	0.40
1:FA:937:ASN:HB3	9:FI:82:ILE:HD11	2.03	0.40
1:FA:969:PHE:CD2	1:FA:978:ALA:HA	2.56	0.40
1:FA:1001:ALA:O	1:FA:1004:GLU:HB2	2.20	0.40
1:FA:1191:GLN:C	1:FA:1193:VAL:H	2.29	0.40
1:FA:1238:MET:SD	1:FA:1524:VAL:HA	2.62	0.40
1:FA:1322:ILE:O	1:FA:1325:LEU:N	2.54	0.40
1:FA:1589:MET:HE2	1:FA:1598:PHE:HE1	1.86	0.40
2:FB:152:LEU:HA	2:FB:152:LEU:HD23	1.80	0.40
2:FB:164:MET:HE2	2:FB:193:TYR:C	2.45	0.40
2:FB:345:SER:HA	13:FM:113:ILE:HG12	2.04	0.40
3:FC:68:ARG:C	3:FC:70:ILE:N	2.76	0.40
3:FC:75:VAL:HA	3:FC:76:PRO:HD3	1.79	0.40
3:FC:245:ARG:HD2	3:FC:245:ARG:N	2.36	0.40
7:FG:140:GLN:HB3	7:FG:217:TRP:CD1	2.55	0.40
1:AA:460:LEU:O	1:AA:466:LEU:HB3	2.21	0.40
1:AA:545:SER:CB	1:AA:547:ILE:HG13	2.51	0.40
1:AA:780:ILE:C	1:AA:781:LEU:HD23	2.46	0.40
1:AA:1028:GLU:HA	1:AA:1187:ILE:CG1	2.50	0.40
1:AA:1105:ARG:HH22	1:AA:1138:GLU:CD	2.29	0.40
1:AA:1155:PHE:CD2	1:AA:1163:GLU:HG3	2.56	0.40
1:AA:1229:ALA:CB	1:AA:1597:ALA:HB2	2.51	0.40
1:AA:1456:PHE:HB3	1:AA:1474:LEU:CD1	2.43	0.40
1:AA:1481:GLU:O	1:AA:1482:LYS:C	2.64	0.40
2:AB:222:PHE:O	2:AB:229:TYR:HB3	2.21	0.40
2:AB:379:ARG:CZ	2:AB:580:GLY:HA2	2.50	0.40
2:AB:551:ILE:CD1	2:AB:649:MET:HA	2.51	0.40
2:AB:755:ASN:C	2:AB:757:TYR:N	2.80	0.40
2:AB:1117:VAL:HA	2:AB:1118:PRO:HD3	1.88	0.40
3:AC:128:ASP:C	3:AC:130:ASN:N	2.76	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:163:TYR:O	3:AC:166:ASP:HB2	2.21	0.40
3:AC:172:GLN:N	3:AC:175:GLN:HB2	2.36	0.40
6:AF:103:MET:O	7:AG:51:PRO:HG2	2.21	0.40
7:AG:26:ASN:ND2	7:AG:37:CYS:SG	2.94	0.40
1:BA:892:LEU:HD11	1:BA:956:ARG:NH1	2.35	0.40
1:BA:1057:ILE:H	1:BA:1057:ILE:HD12	1.87	0.40
1:BA:1080:TYR:HB3	1:BA:1172:LEU:HD21	2.03	0.40
1:BA:1220:PRO:O	1:BA:1223:ARG:HB2	2.21	0.40
1:BA:1448:SER:HA	1:BA:1451:ILE:HD12	2.04	0.40
1:BA:1459:LYS:HE3	1:BA:1459:LYS:HB3	1.98	0.40
2:BB:101:GLN:O	2:BB:139:LEU:HD22	2.22	0.40
2:BB:961:GLY:HA2	2:BB:964:VAL:HG23	2.02	0.40
2:BB:1112:THR:OG1	2:BB:1128:CYS:SG	2.79	0.40
3:BC:101:ILE:C	3:BC:103:LEU:N	2.80	0.40
3:BC:140:CYS:HB2	3:BC:196:LEU:HD13	2.04	0.40
3:BC:216:HIS:O	3:BC:218:LYS:N	2.55	0.40
4:BD:40:LEU:HD22	4:BD:93:GLN:HB3	2.02	0.40
6:BF:97:ARG:HG2	6:BF:130:ILE:HD13	2.04	0.40
7:BG:29:ASP:C	7:BG:31:LYS:N	2.77	0.40
7:BG:62:MET:HA	7:BG:66:LEU:HB2	2.02	0.40
7:BG:74:ASN:HB3	7:BG:77:VAL:HG23	2.04	0.40
7:BG:129:VAL:HG12	7:BG:235:ASN:HA	2.04	0.40
10:BJ:56:LEU:O	10:BJ:59:LYS:HB2	2.21	0.40
14:BN:139:VAL:HB	14:BN:140:SER:H	1.33	0.40
1:CA:569:SER:HB2	4:CD:17:ASN:ND2	2.36	0.40
1:CA:699:CYS:O	1:CA:812:VAL:HG22	2.21	0.40
1:CA:759:TYR:HB3	1:CA:920:PHE:CD2	2.56	0.40
1:CA:771:PHE:HE2	1:CA:776:LEU:HB2	1.86	0.40
1:CA:839:GLY:O	1:CA:840:ASN:C	2.64	0.40
1:CA:1047:GLN:CD	1:CA:1584:LEU:HD13	2.46	0.40
1:CA:1095:LEU:HD21	1:CA:1134:GLY:HA3	2.03	0.40
1:CA:1589:MET:HE2	1:CA:1598:PHE:HE1	1.85	0.40
1:CA:1650:GLY:C	1:CA:1652:GLY:H	2.29	0.40
2:CB:156:ARG:HD2	2:CB:156:ARG:HA	1.65	0.40
2:CB:796:ARG:HD2	10:CJ:7:CYS:O	2.21	0.40
2:CB:1007:TYR:C	2:CB:1009:GLY:N	2.79	0.40
3:CC:312:GLU:O	3:CC:313:ILE:C	2.65	0.40
4:CD:32:SER:O	4:CD:36:VAL:HG23	2.21	0.40
4:CD:85:SER:O	4:CD:88:GLN:N	2.49	0.40
5:CE:127:ILE:HD11	5:CE:132:ILE:CD1	2.51	0.40
7:CG:60:GLY:O	7:CG:64:GLN:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:62:MET:HA	7:CG:66:LEU:HB2	2.04	0.40
8:CH:81:PRO:HD2	11:CK:108:TYR:OH	2.22	0.40
9:CI:60:LEU:HA	9:CI:60:LEU:HD23	1.78	0.40
13:CM:10:ILE:HD12	14:CN:70:LEU:O	2.21	0.40
1:DA:19:LEU:HD23	1:DA:19:LEU:HA	1.89	0.40
1:DA:232:LYS:HB2	1:DA:232:LYS:HE3	1.84	0.40
1:DA:453:ILE:HA	1:DA:454:PRO:HD3	1.94	0.40
1:DA:691:GLN:O	1:DA:692:TYR:C	2.64	0.40
1:DA:741:PRO:HA	1:DA:742:PRO:HD3	1.78	0.40
1:DA:852:ASP:O	1:DA:853:THR:C	2.65	0.40
1:DA:865:ASP:OD2	1:DA:867:ASP:N	2.45	0.40
1:DA:1033:SER:O	1:DA:1181:PRO:HB3	2.21	0.40
1:DA:1063:MET:HE2	1:DA:1063:MET:HB3	1.84	0.40
1:DA:1537:ASP:C	1:DA:1539:ASP:H	2.29	0.40
1:DA:1610:PHE:HD1	1:DA:1610:PHE:HA	1.74	0.40
1:DA:1620:GLN:CD	1:DA:1620:GLN:N	2.79	0.40
2:DB:38:LEU:HD21	2:DB:760:TYR:C	2.46	0.40
2:DB:99:VAL:HG11	2:DB:139:LEU:HD13	2.03	0.40
2:DB:274:VAL:HG11	2:DB:313:PHE:HB2	2.03	0.40
2:DB:547:HIS:CD2	2:DB:694:THR:O	2.75	0.40
2:DB:586:VAL:O	2:DB:593:ILE:HG22	2.21	0.40
2:DB:696:ILE:HG13	2:DB:696:ILE:H	1.72	0.40
2:DB:1158:ILE:HA	2:DB:1167:PHE:O	2.22	0.40
3:DC:211:GLY:HA3	3:DC:219:PHE:CZ	2.56	0.40
7:DG:163:PRO:HB2	7:DG:166:TRP:CD1	2.57	0.40
8:DH:33:GLN:HB2	8:DH:36:CYS:CB	2.51	0.40
8:DH:108:SER:O	8:DH:110:ASP:N	2.54	0.40
12:DL:30:ILE:HD12	12:DL:59:ALA:HB2	2.04	0.40
12:DL:45:ALA:HB1	12:DL:47:ARG:HG2	2.02	0.40
14:DN:55:LEU:HB3	14:DN:136:VAL:CG2	2.51	0.40
1:EA:456:VAL:O	1:EA:460:LEU:HG	2.20	0.40
1:EA:675:SER:HB2	2:EB:952:HIS:NE2	2.36	0.40
1:EA:680:LEU:HD12	1:EA:820:TYR:CG	2.56	0.40
1:EA:918:LYS:O	1:EA:923:ASN:ND2	2.47	0.40
1:EA:1460:TYR:HA	1:EA:1472:PHE:HB3	2.02	0.40
1:EA:1463:ASP:C	1:EA:1465:GLU:N	2.78	0.40
2:EB:53:THR:HA	2:EB:59:GLY:HA3	2.03	0.40
2:EB:472:SER:OG	2:EB:473:GLN:N	2.54	0.40
2:EB:690:GLU:HG2	2:EB:690:GLU:H	1.67	0.40
2:EB:1073:GLU:O	2:EB:1076:ARG:HB3	2.22	0.40
2:EB:1178:ILE:HB	2:EB:1182:LEU:HD23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:173:GLY:C	3:EC:175:GLN:N	2.79	0.40
5:EE:52:ARG:HA	5:EE:53:PRO:HD3	1.88	0.40
5:EE:55:ARG:HB3	5:EE:82:PHE:HB3	2.03	0.40
6:EF:72:LYS:HD2	6:EF:141:GLY:C	2.46	0.40
6:EF:120:ILE:O	6:EF:121:ALA:C	2.64	0.40
7:EG:48:SER:HB3	7:EG:115:PHE:CE1	2.56	0.40
7:EG:60:GLY:O	7:EG:64:GLN:HB2	2.20	0.40
7:EG:235:ASN:HB3	7:EG:246:ASP:HB3	2.03	0.40
8:EH:33:GLN:HG3	8:EH:131:ASN:HD21	1.86	0.40
1:FA:394:LEU:C	1:FA:396:ILE:N	2.79	0.40
1:FA:671:GLN:O	1:FA:672:ASP:C	2.65	0.40
1:FA:763:GLY:HA3	8:FH:25:ARG:NE	2.36	0.40
1:FA:839:GLY:O	1:FA:842:TRP:HB2	2.21	0.40
1:FA:1168:ALA:O	1:FA:1169:LEU:C	2.64	0.40
1:FA:1229:ALA:HB3	1:FA:1597:ALA:HB2	2.03	0.40
2:FB:520:LEU:HD12	2:FB:520:LEU:HA	1.95	0.40
2:FB:626:ILE:N	2:FB:668:GLU:OE2	2.54	0.40
2:FB:905:TYR:CD1	2:FB:905:TYR:N	2.89	0.40
2:FB:1186:ASP:OD2	2:FB:1196:LEU:HD12	2.21	0.40
3:FC:172:GLN:N	3:FC:175:GLN:HB2	2.37	0.40
3:FC:245:ARG:HD2	3:FC:245:ARG:H	1.86	0.40
3:FC:317:SER:O	3:FC:320:ILE:HB	2.20	0.40
8:FH:33:GLN:HB2	8:FH:36:CYS:CB	2.50	0.40
10:FJ:60:PHE:O	10:FJ:63:TYR:N	2.51	0.40
13:FM:43:LYS:HE3	14:FN:27:ASP:O	2.21	0.40
1:AA:441:THR:C	1:AA:443:ALA:H	2.27	0.40
1:AA:958:PRO:HG2	2:AB:522:PRO:HG3	2.02	0.40
1:AA:1184:ALA:O	1:AA:1186:GLY:N	2.55	0.40
1:AA:1323:HIS:CD2	1:AA:1454:HIS:CD2	3.10	0.40
1:AA:1565:GLU:O	1:AA:1568:ASN:HB3	2.21	0.40
1:AA:1571:SER:C	1:AA:1573:TYR:H	2.30	0.40
2:AB:479:GLN:H	2:AB:479:GLN:HG2	1.67	0.40
2:AB:699:ILE:H	2:AB:699:ILE:CD1	2.32	0.40
2:AB:753:LYS:O	2:AB:981:SER:OG	2.14	0.40
2:AB:1000:LEU:HD13	2:AB:1009:GLY:HA2	2.03	0.40
3:AC:85:PHE:HA	3:AC:204:LEU:CB	2.52	0.40
3:AC:230:LEU:HD11	3:AC:270:ALA:HB3	2.03	0.40
3:AC:240:LYS:HB2	3:AC:240:LYS:HE3	1.90	0.40
5:AE:17:ARG:O	5:AE:20:LYS:HB2	2.21	0.40
14:AN:118:SER:O	14:AN:119:LEU:HD23	2.20	0.40
14:AN:179:ASP:C	14:AN:180:PHE:CD1	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AO:270:LEU:HD23	7:AO:270:LEU:HA	1.91	0.40
1:BA:111:LYS:HG3	1:BA:234:ASP:OD2	2.21	0.40
1:BA:476:VAL:HG11	2:BB:1091:ARG:O	2.22	0.40
1:BA:597:LYS:HB2	2:BB:1082:HIS:NE2	2.37	0.40
1:BA:601:MET:HE2	1:BA:656:GLN:HB2	2.03	0.40
1:BA:654:ASP:C	1:BA:656:GLN:N	2.78	0.40
1:BA:858:ALA:O	1:BA:862:THR:OG1	2.33	0.40
1:BA:1191:GLN:C	1:BA:1193:VAL:H	2.27	0.40
1:BA:1237:GLN:HB3	1:BA:1520:VAL:CG1	2.51	0.40
2:BB:233:GLY:HA2	2:BB:250:LEU:O	2.21	0.40
2:BB:366:GLY:O	2:BB:367:SER:C	2.63	0.40
2:BB:824:HIS:O	2:BB:861:TYR:HB2	2.21	0.40
2:BB:858:ILE:HG12	2:BB:859:CYS:N	2.35	0.40
2:BB:999:GLN:NE2	14:BN:166:LEU:HD21	2.37	0.40
7:BG:163:PRO:C	7:BG:165:ASP:H	2.30	0.40
13:BM:16:GLN:HB3	13:BM:91:TYR:HA	2.03	0.40
14:BN:131:LEU:HG	14:BN:132:GLN:N	2.36	0.40
1:CA:52:LEU:HD23	1:CA:52:LEU:HA	1.82	0.40
1:CA:470:HIS:CD2	7:CO:314:THR:HG22	2.56	0.40
1:CA:554:ARG:O	1:CA:555:LYS:C	2.64	0.40
1:CA:1158:SER:HB3	1:CA:1159:ASP:H	1.56	0.40
1:CA:1264:SER:HA	1:CA:1267:ILE:HD12	2.03	0.40
1:CA:1450:ILE:HG22	1:CA:1457:ILE:HG21	2.04	0.40
2:CB:68:ILE:HD13	2:CB:68:ILE:HA	1.66	0.40
2:CB:70:GLU:HG2	2:CB:97:VAL:O	2.21	0.40
2:CB:101:GLN:O	2:CB:139:LEU:HD22	2.22	0.40
2:CB:206:LEU:HD23	2:CB:206:LEU:HA	1.98	0.40
2:CB:377:MET:O	2:CB:378:ILE:C	2.64	0.40
2:CB:501:ARG:O	2:CB:544:HIS:HA	2.22	0.40
2:CB:789:ILE:HD11	2:CB:947:ILE:HG12	2.03	0.40
2:CB:845:LEU:HD12	12:CL:58:LYS:HE2	2.02	0.40
3:CC:199:GLY:HA3	10:CJ:66:LEU:HD22	2.03	0.40
5:CE:213:ILE:HD13	5:CE:214:CYS:N	2.35	0.40
6:CF:74:ILE:HA	6:CF:75:PRO:HD2	1.95	0.40
6:CF:105:ALA:HA	6:CF:106:PRO:HD3	1.91	0.40
7:CG:87:LEU:HA	7:CG:120:VAL:HG23	2.02	0.40
8:CH:128:ASN:OD1	8:CH:130:ARG:HB2	2.21	0.40
13:CM:7:VAL:C	14:CN:73:ASP:CG	2.88	0.40
7:CO:278:ILE:HB	7:DG:159:LYS:NZ	2.36	0.40
1:DA:90:PHE:CE1	1:DA:1623:THR:HG23	2.57	0.40
1:DA:394:LEU:C	1:DA:396:ILE:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:460:LEU:O	1:DA:466:LEU:HB3	2.21	0.40
1:DA:469:LYS:NZ	7:DO:314:THR:O	2.54	0.40
1:DA:509:GLU:OE1	1:DA:579:ARG:NH2	2.50	0.40
1:DA:751:SER:O	1:DA:769:VAL:N	2.47	0.40
1:DA:790:LYS:O	1:DA:792:GLY:N	2.55	0.40
1:DA:892:LEU:HG	1:DA:893:ASP:N	2.35	0.40
1:DA:952:LEU:HD22	1:DA:952:LEU:HA	1.86	0.40
1:DA:1226:VAL:HG22	1:DA:1598:PHE:CE1	2.56	0.40
1:DA:1529:MET:H	1:DA:1529:MET:HG2	1.66	0.40
1:DA:1548:ALA:O	1:DA:1549:VAL:C	2.65	0.40
2:DB:59:GLY:O	2:DB:60:LEU:C	2.63	0.40
2:DB:96:SER:OG	2:DB:144:SER:O	2.28	0.40
2:DB:383:SER:HB2	2:DB:388:GLU:HB2	2.03	0.40
2:DB:704:THR:HA	2:DB:705:PRO:HD2	1.93	0.40
2:DB:960:ILE:O	2:DB:963:PHE:N	2.54	0.40
2:DB:1026:ILE:HD11	2:DB:1028:VAL:CG1	2.48	0.40
3:DC:197:ARG:CG	10:DJ:61:LEU:HB3	2.51	0.40
3:DC:262:SER:C	3:DC:264:GLU:H	2.29	0.40
5:DE:177:ARG:NH1	5:DE:179:GLN:HE22	2.19	0.40
7:DG:26:ASN:HA	7:DG:27:PRO:HD3	1.89	0.40
7:DG:57:PRO:O	7:DG:58:LEU:C	2.65	0.40
7:DG:137:ILE:HD11	7:DG:229:LEU:HB2	2.03	0.40
7:DG:162:ILE:HA	7:DG:163:PRO:HD2	1.86	0.40
7:DG:221:ASN:OD1	7:DG:221:ASN:N	2.54	0.40
9:DI:8:ILE:H	9:DI:16:LEU:CD1	2.35	0.40
10:DJ:45:CYS:HA	10:DJ:48:ARG:NH1	2.37	0.40
14:DN:54:TRP:CZ2	14:DN:135:LYS:HD2	2.56	0.40
1:EA:1217:LEU:HD11	1:EA:1572:ARG:HE	1.86	0.40
2:EB:70:GLU:HG2	2:EB:97:VAL:O	2.20	0.40
2:EB:184:LYS:HE2	2:EB:735:HIS:NE2	2.37	0.40
2:EB:617:THR:CB	2:EB:620:LEU:HD23	2.51	0.40
2:EB:736:ARG:HB3	2:EB:738:ASP:OD1	2.21	0.40
2:EB:741:LEU:HA	2:EB:741:LEU:HD23	1.76	0.40
2:EB:913:ILE:HD12	2:EB:927:CYS:HB3	2.04	0.40
3:EC:136:LEU:HD22	3:EC:167:LEU:HA	2.04	0.40
3:EC:251:PHE:HB3	3:EC:255:VAL:HG11	2.02	0.40
7:EG:161:ASN:HB3	7:EG:248:THR:HA	2.04	0.40
9:EI:60:LEU:HD23	9:EI:60:LEU:HA	1.84	0.40
11:EK:72:LEU:HD12	11:EK:72:LEU:HA	1.54	0.40
13:EM:75:GLN:HG2	14:EN:64:ILE:HD11	2.03	0.40
14:EN:72:VAL:O	14:EN:73:ASP:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:77:GLY:O	1:FA:78:HIS:HB3	2.21	0.40
1:FA:530:TRP:CZ2	1:FA:607:VAL:HG21	2.56	0.40
1:FA:736:LEU:HD22	1:FA:736:LEU:HA	1.69	0.40
1:FA:765:LEU:C	1:FA:767:ASN:H	2.28	0.40
1:FA:810:LEU:O	1:FA:811:SER:C	2.65	0.40
1:FA:1027:LEU:O	1:FA:1028:GLU:C	2.64	0.40
1:FA:1136:VAL:HG11	1:FA:1140:PHE:CD2	2.49	0.40
1:FA:1243:TRP:HA	1:FA:1243:TRP:CE3	2.57	0.40
1:FA:1481:GLU:O	1:FA:1483:LEU:HD23	2.22	0.40
2:FB:97:VAL:O	2:FB:421:LEU:HD22	2.21	0.40
2:FB:104:ILE:CB	2:FB:169:ARG:HG3	2.51	0.40
2:FB:475:GLY:C	2:FB:477:ASP:H	2.29	0.40
2:FB:609:ARG:NH2	2:FB:626:ILE:HG13	2.36	0.40
2:FB:690:GLU:HG2	2:FB:690:GLU:H	1.68	0.40
2:FB:775:VAL:H	2:FB:1028:VAL:CG1	2.33	0.40
2:FB:956:SER:HB2	9:FI:107:GLY:HA3	2.04	0.40
3:FC:269:ASP:C	3:FC:271:ARG:N	2.79	0.40
5:FE:81:GLU:HG3	5:FE:82:PHE:N	2.35	0.40
11:FK:53:ALA:HB1	11:FK:104:ARG:HH12	1.87	0.40
13:FM:65:TYR:O	13:FM:97:VAL:HG23	2.22	0.40
14:FN:163:VAL:O	14:FN:166:LEU:HD11	2.22	0.40
1:AA:507:TYR:OH	1:AA:641:GLU:N	2.55	0.40
1:AA:583:ASN:HA	1:AA:605:VAL:HG12	2.03	0.40
1:AA:646:GLU:OE1	2:AB:1087:LEU:HG	2.22	0.40
1:AA:669:LEU:HG	1:AA:810:LEU:HD11	2.04	0.40
1:AA:671:GLN:HA	2:AB:952:HIS:HD2	1.86	0.40
1:AA:676:ALA:O	1:AA:677:GLY:C	2.64	0.40
1:AA:689:ARG:O	1:AA:692:TYR:HB3	2.22	0.40
1:AA:763:GLY:HA3	8:AH:25:ARG:NE	2.36	0.40
2:AB:570:VAL:HG13	2:AB:596:VAL:HG13	2.04	0.40
2:AB:771:ALA:O	2:AB:1030:VAL:HG12	2.22	0.40
3:AC:273:ASP:CG	3:AC:275:VAL:H	2.29	0.40
6:AF:123:LYS:O	6:AF:126:ALA:HB3	2.22	0.40
7:AG:73:TYR:CD2	7:AG:238:THR:HB	2.56	0.40
8:AH:39:THR:HG22	8:AH:124:ARG:HB3	2.04	0.40
1:BA:52:LEU:C	1:BA:54:LEU:N	2.76	0.40
1:BA:345:LEU:H	1:BA:345:LEU:HG	1.34	0.40
1:BA:744:MET:HE2	1:BA:1075:ALA:O	2.22	0.40
1:BA:1067:GLU:C	1:BA:1069:CYS:N	2.79	0.40
1:BA:1325:LEU:HD13	1:BA:1325:LEU:HA	1.67	0.40
1:BA:1526:PHE:O	1:BA:1528:ALA:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:164:MET:HE3	2:BB:164:MET:HB2	1.85	0.40
2:BB:389:CYS:HB2	2:BB:635:GLY:O	2.21	0.40
2:BB:655:TYR:CZ	2:BB:657:PRO:HG2	2.57	0.40
2:BB:872:LYS:HD3	2:BB:872:LYS:HA	1.76	0.40
2:BB:873:THR:HG1	2:BB:875:HIS:CD2	2.40	0.40
2:BB:913:ILE:HD11	2:BB:929:ARG:N	2.36	0.40
3:BC:172:GLN:H	3:BC:175:GLN:CD	2.29	0.40
5:BE:175:LEU:HD22	5:BE:175:LEU:HA	1.70	0.40
7:BG:50:ALA:HB1	7:BG:52:MET:HG2	2.03	0.40
14:BN:73:ASP:O	14:BN:74:PHE:C	2.65	0.40
1:CA:76:GLN:H	1:CA:76:GLN:HG2	1.61	0.40
1:CA:538:ASN:HB3	1:CA:539:GLU:H	1.71	0.40
1:CA:731:ILE:O	1:CA:735:VAL:HG23	2.21	0.40
1:CA:1018:TYR:OH	1:CA:1615:TYR:HE1	2.04	0.40
1:CA:1148:LEU:CD2	1:CA:1163:GLU:HG2	2.52	0.40
1:CA:1159:ASP:C	1:CA:1161:VAL:N	2.79	0.40
1:CA:1193:VAL:O	1:CA:1196:PRO:HD2	2.22	0.40
1:CA:1529:MET:H	1:CA:1529:MET:HG2	1.70	0.40
1:CA:1584:LEU:HD13	1:CA:1584:LEU:HA	1.95	0.40
2:CB:19:LEU:HD21	10:CJ:25:LEU:HB3	2.04	0.40
2:CB:46:ILE:HG22	2:CB:50:ASN:HD21	1.87	0.40
2:CB:128:GLN:NE2	2:CB:735:HIS:HA	2.37	0.40
2:CB:518:ARG:O	2:CB:519:LYS:C	2.64	0.40
2:CB:555:GLN:NE2	2:CB:644:GLY:O	2.55	0.40
2:CB:679:GLN:NE2	14:CN:155:VAL:O	2.49	0.40
2:CB:751:ILE:HG22	2:CB:770:ASN:OD1	2.21	0.40
2:CB:837:LEU:HD22	2:CB:837:LEU:HA	1.63	0.40
2:CB:1006:ASN:ND2	3:CC:277:ARG:HB2	2.36	0.40
3:CC:262:SER:C	3:CC:264:GLU:H	2.29	0.40
3:CC:303:GLU:O	3:CC:304:SER:HB2	2.22	0.40
3:CC:329:LYS:CD	11:CK:122:LYS:HE2	2.50	0.40
8:CH:46:LEU:HD23	8:CH:46:LEU:HA	1.81	0.40
8:CH:143:LEU:N	8:CH:143:LEU:HD12	2.36	0.40
9:CI:114:CYS:SG	9:CI:115:THR:N	2.95	0.40
7:CO:287:GLU:O	7:CO:290:GLU:N	2.52	0.40
1:DA:52:LEU:HD22	1:DA:56:ALA:HA	2.03	0.40
1:DA:70:LYS:HG2	7:DO:302:GLU:OE2	2.21	0.40
1:DA:510:PRO:HG2	6:DF:102:SER:OG	2.21	0.40
1:DA:765:LEU:C	1:DA:767:ASN:H	2.30	0.40
1:DA:1195:GLU:HB3	1:DA:1196:PRO:HD3	2.03	0.40
2:DB:71:LYS:HB3	2:DB:425:ILE:HD11	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:476:LEU:HD23	2:DB:476:LEU:HA	1.52	0.40
2:DB:909:ARG:HH22	2:DB:1038:HIS:CG	2.39	0.40
2:DB:1056:THR:HB	2:DB:1058:GLN:HG3	2.02	0.40
2:DB:1171:ASN:HD22	2:DB:1171:ASN:N	2.20	0.40
3:DC:100:ARG:O	3:DC:101:ILE:C	2.65	0.40
4:DD:32:SER:O	4:DD:36:VAL:HG23	2.21	0.40
5:DE:48:ASP:OD1	5:DE:48:ASP:N	2.47	0.40
5:DE:196:VAL:O	5:DE:211:TYR:HB3	2.22	0.40
6:DF:123:LYS:O	6:DF:126:ALA:HB3	2.22	0.40
6:DF:136:ARG:O	6:DF:143:PHE:HB2	2.22	0.40
7:DG:73:TYR:CD2	7:DG:238:THR:HB	2.57	0.40
8:DH:81:PRO:HA	8:DH:82:PRO:HD2	1.87	0.40
11:DK:119:LYS:O	11:DK:123:ASP:HB2	2.21	0.40
1:EA:11:ILE:HD11	1:EA:1643:VAL:HG11	2.04	0.40
1:EA:87:ASN:HA	1:EA:88:PRO:HD2	1.90	0.40
1:EA:488:PRO:HD2	2:EB:781:TYR:CZ	2.56	0.40
1:EA:819:ASN:O	1:EA:822:THR:OG1	2.38	0.40
1:EA:1085:LEU:H	1:EA:1085:LEU:HG	1.55	0.40
1:EA:1086:ILE:HG22	1:EA:1087:GLU:N	2.35	0.40
2:EB:38:LEU:HD13	2:EB:38:LEU:HA	1.78	0.40
2:EB:415:GLU:CD	2:EB:472:SER:HB2	2.45	0.40
2:EB:751:ILE:HG22	2:EB:770:ASN:OD1	2.21	0.40
2:EB:787:MET:HE3	2:EB:917:PHE:HB2	2.03	0.40
2:EB:838:GLU:C	2:EB:840:LEU:N	2.80	0.40
2:EB:840:LEU:HD11	2:EB:858:ILE:C	2.46	0.40
2:EB:985:ILE:H	2:EB:985:ILE:HG12	1.60	0.40
2:EB:1111:LEU:HD23	2:EB:1111:LEU:H	1.87	0.40
3:EC:128:ASP:HB2	3:EC:129:GLU:H	1.73	0.40
3:EC:317:SER:O	3:EC:320:ILE:HB	2.22	0.40
5:EE:20:LYS:NZ	5:EE:34:GLU:O	2.47	0.40
5:EE:79:TRP:CD1	5:EE:79:TRP:C	2.99	0.40
5:EE:143:ASN:HB3	5:EE:146:HIS:CE1	2.57	0.40
7:EG:86:GLY:O	7:EG:120:VAL:HG23	2.21	0.40
1:FA:125:LEU:CD1	1:FA:219:LEU:HD12	2.50	0.40
1:FA:453:ILE:HA	1:FA:454:PRO:HD3	1.98	0.40
1:FA:574:ASN:ND2	6:FF:104:ASN:HD21	2.20	0.40
1:FA:1142:ASP:O	1:FA:1145:GLU:N	2.54	0.40
1:FA:1447:GLN:HE21	1:FA:1459:LYS:HA	1.87	0.40
1:FA:1622:LEU:HD11	2:FB:1194:ILE:HD13	2.03	0.40
2:FB:45:HIS:CE1	2:FB:205:MET:SD	3.15	0.40
2:FB:379:ARG:O	2:FB:380:LYS:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:392:ASP:HB3	2:FB:399:HIS:NE2	2.36	0.40
2:FB:413:LEU:HD13	2:FB:413:LEU:HA	1.74	0.40
2:FB:527:PHE:HE2	2:FB:669:GLN:NE2	2.19	0.40
2:FB:714:ARG:HG2	2:FB:959:THR:CG2	2.52	0.40
2:FB:775:VAL:HG23	2:FB:1028:VAL:HG12	2.03	0.40
2:FB:966:SER:HB3	2:FB:967:LEU:H	1.66	0.40
3:FC:237:GLN:NE2	3:FC:288:LYS:HE2	2.36	0.40
3:FC:253:PRO:C	3:FC:255:VAL:H	2.29	0.40
3:FC:303:GLU:O	3:FC:304:SER:HB2	2.21	0.40
9:FI:33:CYS:HB2	13:FM:60:LEU:HD22	2.03	0.40
9:FI:113:THR:HA	9:FI:120:LYS:HB3	2.02	0.40
11:FK:56:GLU:H	11:FK:56:GLU:HG3	1.59	0.40
13:FM:66:THR:HB	13:FM:71:GLN:HG3	2.03	0.40
14:FN:97:SER:CB	14:FN:105:SER:HB3	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AA	1470/1664 (88%)	1124 (76%)	276 (19%)	70 (5%)	2	16
1	BA	1448/1664 (87%)	1124 (78%)	259 (18%)	65 (4%)	2	16
1	CA	1469/1664 (88%)	1131 (77%)	268 (18%)	70 (5%)	2	16
1	DA	1469/1664 (88%)	1138 (78%)	263 (18%)	68 (5%)	2	16
1	EA	1468/1664 (88%)	1127 (77%)	272 (18%)	69 (5%)	2	16
1	FA	1470/1664 (88%)	1127 (77%)	274 (19%)	69 (5%)	2	16
2	AB	1142/1203 (95%)	926 (81%)	158 (14%)	58 (5%)	1	14
2	BB	1141/1203 (95%)	923 (81%)	164 (14%)	54 (5%)	2	16
2	CB	1160/1203 (96%)	921 (79%)	171 (15%)	68 (6%)	1	12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	DB	1155/1203 (96%)	923 (80%)	172 (15%)	60 (5%)	1 14
2	EB	1154/1203 (96%)	928 (80%)	165 (14%)	61 (5%)	1 14
2	FB	1155/1203 (96%)	925 (80%)	165 (14%)	65 (6%)	1 14
3	AC	302/335 (90%)	231 (76%)	53 (18%)	18 (6%)	1 12
3	BC	302/335 (90%)	232 (77%)	53 (18%)	17 (6%)	1 14
3	CC	302/335 (90%)	234 (78%)	52 (17%)	16 (5%)	1 14
3	DC	302/335 (90%)	233 (77%)	51 (17%)	18 (6%)	1 12
3	EC	302/335 (90%)	233 (77%)	52 (17%)	17 (6%)	1 14
3	FC	302/335 (90%)	233 (77%)	51 (17%)	18 (6%)	1 12
4	AD	54/137 (39%)	49 (91%)	5 (9%)	0	100 100
4	BD	54/137 (39%)	50 (93%)	4 (7%)	0	100 100
4	CD	54/137 (39%)	49 (91%)	5 (9%)	0	100 100
4	DD	54/137 (39%)	50 (93%)	4 (7%)	0	100 100
4	ED	54/137 (39%)	50 (93%)	3 (6%)	1 (2%)	6 31
4	FD	54/137 (39%)	49 (91%)	4 (7%)	1 (2%)	6 31
5	AE	213/215 (99%)	176 (83%)	31 (15%)	6 (3%)	4 24
5	BE	213/215 (99%)	174 (82%)	32 (15%)	7 (3%)	3 20
5	CE	213/215 (99%)	174 (82%)	33 (16%)	6 (3%)	4 24
5	DE	213/215 (99%)	176 (83%)	31 (15%)	6 (3%)	4 24
5	EE	213/215 (99%)	175 (82%)	32 (15%)	6 (3%)	4 24
5	FE	213/215 (99%)	174 (82%)	33 (16%)	6 (3%)	4 24
6	AF	96/155 (62%)	85 (88%)	10 (10%)	1 (1%)	12 48
6	BF	96/155 (62%)	87 (91%)	8 (8%)	1 (1%)	12 48
6	CF	97/155 (63%)	87 (90%)	9 (9%)	1 (1%)	12 48
6	DF	97/155 (63%)	85 (88%)	11 (11%)	1 (1%)	12 48
6	EF	97/155 (63%)	88 (91%)	8 (8%)	1 (1%)	12 48
6	FF	97/155 (63%)	88 (91%)	7 (7%)	2 (2%)	5 29
7	AG	198/326 (61%)	143 (72%)	40 (20%)	15 (8%)	1 9
7	AO	50/326 (15%)	31 (62%)	11 (22%)	8 (16%)	0 2
7	BG	191/326 (59%)	139 (73%)	37 (19%)	15 (8%)	1 9
7	BO	49/326 (15%)	33 (67%)	11 (22%)	5 (10%)	0 6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
7	CG	198/326 (61%)	145 (73%)	38 (19%)	15 (8%)	1 9
7	CO	48/326 (15%)	32 (67%)	10 (21%)	6 (12%)	0 4
7	DG	198/326 (61%)	142 (72%)	38 (19%)	18 (9%)	0 8
7	DO	50/326 (15%)	31 (62%)	12 (24%)	7 (14%)	0 3
7	EG	198/326 (61%)	144 (73%)	40 (20%)	14 (7%)	1 10
7	EO	50/326 (15%)	30 (60%)	13 (26%)	7 (14%)	0 3
7	FG	198/326 (61%)	141 (71%)	40 (20%)	17 (9%)	0 8
7	FO	50/326 (15%)	34 (68%)	13 (26%)	3 (6%)	1 12
8	AH	128/146 (88%)	106 (83%)	19 (15%)	3 (2%)	5 27
8	BH	127/146 (87%)	105 (83%)	17 (13%)	5 (4%)	2 18
8	CH	127/146 (87%)	106 (84%)	18 (14%)	3 (2%)	4 26
8	DH	130/146 (89%)	104 (80%)	20 (15%)	6 (5%)	2 16
8	EH	130/146 (89%)	106 (82%)	17 (13%)	7 (5%)	1 14
8	FH	130/146 (89%)	106 (82%)	19 (15%)	5 (4%)	2 19
9	AI	122/125 (98%)	91 (75%)	28 (23%)	3 (2%)	4 25
9	BI	91/125 (73%)	70 (77%)	19 (21%)	2 (2%)	5 28
9	CI	122/125 (98%)	93 (76%)	25 (20%)	4 (3%)	3 20
9	DI	122/125 (98%)	93 (76%)	26 (21%)	3 (2%)	4 25
9	EI	113/125 (90%)	85 (75%)	25 (22%)	3 (3%)	4 25
9	FI	122/125 (98%)	92 (75%)	25 (20%)	5 (4%)	2 17
10	AJ	66/70 (94%)	45 (68%)	16 (24%)	5 (8%)	1 9
10	BJ	67/70 (96%)	45 (67%)	18 (27%)	4 (6%)	1 12
10	CJ	66/70 (94%)	47 (71%)	15 (23%)	4 (6%)	1 12
10	DJ	67/70 (96%)	47 (70%)	16 (24%)	4 (6%)	1 12
10	EJ	66/70 (94%)	47 (71%)	15 (23%)	4 (6%)	1 12
10	FJ	66/70 (94%)	47 (71%)	16 (24%)	3 (4%)	2 16
11	AK	99/142 (70%)	79 (80%)	17 (17%)	3 (3%)	3 22
11	BK	98/142 (69%)	80 (82%)	15 (15%)	3 (3%)	3 21
11	CK	99/142 (70%)	85 (86%)	11 (11%)	3 (3%)	3 22
11	DK	99/142 (70%)	81 (82%)	14 (14%)	4 (4%)	2 18
11	EK	98/142 (69%)	80 (82%)	14 (14%)	4 (4%)	2 17

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
11	FK	98/142 (69%)	82 (84%)	13 (13%)	3 (3%)	3 21
12	AL	42/70 (60%)	34 (81%)	5 (12%)	3 (7%)	1 10
12	BL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1 10
12	CL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1 10
12	DL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1 10
12	EL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1 10
12	FL	42/70 (60%)	34 (81%)	5 (12%)	3 (7%)	1 10
13	AM	107/415 (26%)	81 (76%)	17 (16%)	9 (8%)	0 8
13	BM	107/415 (26%)	81 (76%)	17 (16%)	9 (8%)	0 8
13	CM	107/415 (26%)	79 (74%)	19 (18%)	9 (8%)	0 8
13	DM	107/415 (26%)	82 (77%)	15 (14%)	10 (9%)	0 8
13	EM	108/415 (26%)	80 (74%)	18 (17%)	10 (9%)	0 8
13	FM	108/415 (26%)	80 (74%)	18 (17%)	10 (9%)	0 8
14	AN	136/233 (58%)	106 (78%)	17 (12%)	13 (10%)	0 7
14	BN	137/233 (59%)	110 (80%)	16 (12%)	11 (8%)	1 9
14	CN	137/233 (59%)	109 (80%)	17 (12%)	11 (8%)	1 9
14	DN	139/233 (60%)	112 (81%)	16 (12%)	11 (8%)	1 9
14	EN	138/233 (59%)	111 (80%)	15 (11%)	12 (9%)	0 8
14	FN	139/233 (60%)	112 (81%)	15 (11%)	12 (9%)	0 8
All	All	25348/33372 (76%)	19889 (78%)	4164 (16%)	1295 (5%)	1 14

All (1295) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AA	39	ASP
1	AA	547	ILE
1	AA	551	VAL
1	AA	710	SER
1	AA	851	VAL
1	AA	936	SER
1	AA	1061	SER
1	AA	1093	SER
1	AA	1158	SER
1	AA	1215	VAL
1	AA	1251	ALA

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Mol	Chain	Res	Type
1	AA	1252	ASP
1	AA	1264	SER
1	AA	1273	THR
1	AA	1514	ASN
1	AA	1599	ASN
2	AB	663	ILE
2	AB	676	VAL
2	AB	700	LEU
2	AB	755	ASN
2	AB	783	MET
2	AB	784	ASP
2	AB	810	ASP
2	AB	834	LYS
2	AB	896	GLN
2	AB	1025	ASP
2	AB	1042	ASP
2	AB	1044	PHE
3	AC	100	ARG
3	AC	148	LYS
5	AE	138	ALA
7	AG	99	ASP
7	AG	143	SER
7	AG	249	LEU
8	AH	109	LYS
12	AL	54	ARG
12	AL	62	LYS
13	AM	13	GLU
13	AM	85	LYS
14	AN	75	GLU
14	AN	139	VAL
7	AO	266	GLN
7	AO	303	ASP
7	AO	306	SER
7	AO	312	GLU
1	BA	39	ASP
1	BA	547	ILE
1	BA	551	VAL
1	BA	710	SER
1	BA	758	GLU
1	BA	851	VAL
1	BA	936	SER
1	BA	1061	SER

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Mol	Chain	Res	Type
1	BA	1093	SER
1	BA	1158	SER
1	BA	1215	VAL
1	BA	1251	ALA
1	BA	1252	ASP
1	BA	1264	SER
1	BA	1273	THR
1	BA	1514	ASN
1	BA	1599	ASN
2	BB	660	LYS
2	BB	663	ILE
2	BB	700	LEU
2	BB	755	ASN
2	BB	783	MET
2	BB	784	ASP
2	BB	834	LYS
2	BB	896	GLN
2	BB	1025	ASP
2	BB	1042	ASP
2	BB	1044	PHE
3	BC	148	LYS
3	BC	279	VAL
5	BE	49	SER
5	BE	138	ALA
7	BG	99	ASP
7	BG	221	ASN
8	BH	109	LYS
11	BK	99	ASN
12	BL	46	VAL
12	BL	54	ARG
12	BL	62	LYS
13	BM	17	ASP
13	BM	85	LYS
14	BN	75	GLU
14	BN	139	VAL
7	BO	313	ASN
1	CA	39	ASP
1	CA	547	ILE
1	CA	551	VAL
1	CA	652	ASN
1	CA	710	SER
1	CA	851	VAL

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Mol	Chain	Res	Type
1	CA	936	SER
1	CA	1061	SER
1	CA	1093	SER
1	CA	1158	SER
1	CA	1215	VAL
1	CA	1251	ALA
1	CA	1252	ASP
1	CA	1264	SER
1	CA	1273	THR
1	CA	1514	ASN
1	CA	1599	ASN
2	CB	90	TYR
2	CB	368	GLN
2	CB	559	SER
2	CB	660	LYS
2	CB	663	ILE
2	CB	676	VAL
2	CB	700	LEU
2	CB	755	ASN
2	CB	783	MET
2	CB	784	ASP
2	CB	834	LYS
2	CB	894	LYS
2	CB	896	GLN
2	CB	1025	ASP
2	CB	1042	ASP
2	CB	1044	PHE
3	CC	148	LYS
7	CG	99	ASP
7	CG	143	SER
7	CG	221	ASN
8	CH	109	LYS
12	CL	54	ARG
12	CL	62	LYS
13	CM	85	LYS
14	CN	75	GLU
14	CN	139	VAL
7	CO	273	VAL
7	CO	274	SER
1	DA	39	ASP
1	DA	551	VAL
1	DA	710	SER

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Mol	Chain	Res	Type
1	DA	851	VAL
1	DA	936	SER
1	DA	1061	SER
1	DA	1093	SER
1	DA	1158	SER
1	DA	1215	VAL
1	DA	1251	ALA
1	DA	1252	ASP
1	DA	1264	SER
1	DA	1273	THR
1	DA	1514	ASN
1	DA	1599	ASN
2	DB	368	GLN
2	DB	559	SER
2	DB	658	LEU
2	DB	660	LYS
2	DB	663	ILE
2	DB	700	LEU
2	DB	755	ASN
2	DB	783	MET
2	DB	784	ASP
2	DB	834	LYS
2	DB	892	SER
2	DB	893	ASN
2	DB	896	GLN
2	DB	1025	ASP
2	DB	1042	ASP
2	DB	1044	PHE
3	DC	148	LYS
3	DC	279	VAL
5	DE	49	SER
5	DE	138	ALA
7	DG	99	ASP
7	DG	143	SER
7	DG	221	ASN
7	DG	249	LEU
8	DH	109	LYS
12	DL	54	ARG
12	DL	62	LYS
13	DM	85	LYS
14	DN	75	GLU
14	DN	139	VAL

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Mol	Chain	Res	Type
7	DO	273	VAL
7	DO	301	LYS
7	DO	302	GLU
7	DO	313	ASN
1	EA	39	ASP
1	EA	255	ALA
1	EA	547	ILE
1	EA	551	VAL
1	EA	710	SER
1	EA	758	GLU
1	EA	851	VAL
1	EA	936	SER
1	EA	1061	SER
1	EA	1093	SER
1	EA	1158	SER
1	EA	1215	VAL
1	EA	1251	ALA
1	EA	1252	ASP
1	EA	1264	SER
1	EA	1273	THR
1	EA	1514	ASN
1	EA	1599	ASN
2	EB	368	GLN
2	EB	658	LEU
2	EB	660	LYS
2	EB	663	ILE
2	EB	676	VAL
2	EB	700	LEU
2	EB	755	ASN
2	EB	783	MET
2	EB	784	ASP
2	EB	810	ASP
2	EB	834	LYS
2	EB	892	SER
2	EB	894	LYS
2	EB	896	GLN
2	EB	1042	ASP
2	EB	1044	PHE
3	EC	148	LYS
5	EE	144	ILE
7	EG	99	ASP
7	EG	143	SER

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Mol	Chain	Res	Type
8	EH	109	LYS
12	EL	54	ARG
12	EL	62	LYS
13	EM	85	LYS
14	EN	75	GLU
14	EN	139	VAL
7	EO	266	GLN
7	EO	267	ALA
7	EO	307	GLU
1	FA	39	ASP
1	FA	255	ALA
1	FA	551	VAL
1	FA	652	ASN
1	FA	710	SER
1	FA	758	GLU
1	FA	851	VAL
1	FA	936	SER
1	FA	1061	SER
1	FA	1093	SER
1	FA	1158	SER
1	FA	1215	VAL
1	FA	1251	ALA
1	FA	1252	ASP
1	FA	1264	SER
1	FA	1273	THR
1	FA	1514	ASN
1	FA	1599	ASN
2	FB	90	TYR
2	FB	658	LEU
2	FB	660	LYS
2	FB	663	ILE
2	FB	676	VAL
2	FB	700	LEU
2	FB	755	ASN
2	FB	783	MET
2	FB	784	ASP
2	FB	834	LYS
2	FB	892	SER
2	FB	896	GLN
2	FB	1025	ASP
2	FB	1042	ASP
2	FB	1044	PHE

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Mol	Chain	Res	Type
3	FC	148	LYS
5	FE	49	SER
5	FE	138	ALA
7	FG	99	ASP
7	FG	143	SER
7	FG	221	ASN
8	FH	109	LYS
12	FL	54	ARG
12	FL	62	LYS
13	FM	7	VAL
13	FM	85	LYS
14	FN	75	GLU
14	FN	139	VAL
1	AA	255	ALA
1	AA	520	ARG
1	AA	619	ALA
1	AA	652	ASN
1	AA	758	GLU
1	AA	850	SER
1	AA	1272	VAL
1	AA	1464	ASP
1	AA	1482	LYS
1	AA	1503	HIS
1	AA	1650	GLY
2	AB	368	GLN
2	AB	475	GLY
2	AB	559	SER
2	AB	658	LEU
2	AB	660	LYS
2	AB	835	GLU
2	AB	877	SER
2	AB	966	SER
2	AB	971	ALA
2	AB	988	GLU
2	AB	1038	HIS
2	AB	1043	LYS
3	AC	129	GLU
3	AC	173	GLY
3	AC	174	ARG
3	AC	191	ILE
3	AC	217	ALA
3	AC	279	VAL

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Mol	Chain	Res	Type
5	AE	49	SER
5	AE	114	ASN
5	AE	144	ILE
7	AG	12	GLU
7	AG	19	LYS
7	AG	20	HIS
7	AG	100	THR
7	AG	152	ALA
7	AG	164	VAL
7	AG	221	ASN
9	AI	5	GLY
9	AI	21	ASN
10	AJ	5	VAL
10	AJ	55	ASP
11	AK	99	ASN
12	AL	46	VAL
13	AM	17	ASP
13	AM	114	LYS
14	AN	32	CYS
14	AN	73	ASP
14	AN	125	ALA
7	AO	301	LYS
7	AO	307	GLU
1	BA	347	ARG
1	BA	520	ARG
1	BA	652	ASN
1	BA	759	TYR
1	BA	850	SER
1	BA	853	THR
1	BA	1272	VAL
1	BA	1464	ASP
1	BA	1482	LYS
1	BA	1541	ILE
1	BA	1650	GLY
2	BB	38	LEU
2	BB	167	SER
2	BB	368	GLN
2	BB	475	GLY
2	BB	559	SER
2	BB	658	LEU
2	BB	676	VAL
2	BB	810	ASP

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Mol	Chain	Res	Type
2	BB	835	GLU
2	BB	877	SER
2	BB	971	ALA
2	BB	988	GLU
2	BB	989	ASP
2	BB	1038	HIS
2	BB	1043	LYS
3	BC	100	ARG
3	BC	129	GLU
3	BC	173	GLY
3	BC	303	GLU
5	BE	114	ASN
5	BE	144	ILE
7	BG	19	LYS
7	BG	20	HIS
7	BG	100	THR
7	BG	143	SER
7	BG	152	ALA
7	BG	164	VAL
7	BG	249	LEU
9	BI	5	GLY
9	BI	21	ASN
10	BJ	5	VAL
13	BM	13	GLU
13	BM	114	LYS
14	BN	32	CYS
14	BN	73	ASP
7	BO	277	LYS
7	BO	286	ILE
7	BO	302	GLU
7	BO	308	ILE
1	CA	255	ALA
1	CA	619	ALA
1	CA	704	ASP
1	CA	758	GLU
1	CA	759	TYR
1	CA	850	SER
1	CA	853	THR
1	CA	1160	GLY
1	CA	1272	VAL
1	CA	1464	ASP
1	CA	1482	LYS

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Mol	Chain	Res	Type
1	CA	1503	HIS
1	CA	1650	GLY
2	CB	12	ARG
2	CB	38	LEU
2	CB	475	GLY
2	CB	658	LEU
2	CB	756	LEU
2	CB	810	ASP
2	CB	835	GLU
2	CB	877	SER
2	CB	892	SER
2	CB	971	ALA
2	CB	988	GLU
2	CB	1038	HIS
2	CB	1043	LYS
2	CB	1181	VAL
3	CC	100	ARG
3	CC	173	GLY
3	CC	174	ARG
3	CC	191	ILE
3	CC	279	VAL
3	CC	303	GLU
3	CC	307	ALA
5	CE	49	SER
5	CE	114	ASN
5	CE	138	ALA
5	CE	144	ILE
7	CG	12	GLU
7	CG	20	HIS
7	CG	100	THR
7	CG	152	ALA
7	CG	164	VAL
7	CG	249	LEU
9	CI	5	GLY
9	CI	21	ASN
10	CJ	55	ASP
11	CK	99	ASN
12	CL	46	VAL
13	CM	13	GLU
13	CM	16	GLN
13	CM	17	ASP
13	CM	114	LYS

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Mol	Chain	Res	Type
14	CN	32	CYS
14	CN	73	ASP
7	CO	304	ASN
1	DA	255	ALA
1	DA	520	ARG
1	DA	547	ILE
1	DA	652	ASN
1	DA	704	ASP
1	DA	758	GLU
1	DA	759	TYR
1	DA	850	SER
1	DA	1160	GLY
1	DA	1272	VAL
1	DA	1464	ASP
1	DA	1482	LYS
1	DA	1503	HIS
1	DA	1541	ILE
1	DA	1650	GLY
2	DB	38	LEU
2	DB	167	SER
2	DB	475	GLY
2	DB	676	VAL
2	DB	810	ASP
2	DB	835	GLU
2	DB	877	SER
2	DB	971	ALA
2	DB	988	GLU
2	DB	1038	HIS
2	DB	1043	LYS
3	DC	100	ARG
3	DC	129	GLU
3	DC	173	GLY
3	DC	217	ALA
5	DE	114	ASN
5	DE	144	ILE
7	DG	12	GLU
7	DG	19	LYS
7	DG	20	HIS
7	DG	100	THR
7	DG	152	ALA
7	DG	164	VAL
9	DI	5	GLY

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Mol	Chain	Res	Type
9	DI	21	ASN
10	DJ	5	VAL
11	DK	99	ASN
12	DL	46	VAL
13	DM	13	GLU
13	DM	17	ASP
13	DM	114	LYS
14	DN	32	CYS
14	DN	73	ASP
7	DO	275	ASN
1	EA	652	ASN
1	EA	759	TYR
1	EA	850	SER
1	EA	940	VAL
1	EA	1050	TYR
1	EA	1160	GLY
1	EA	1272	VAL
1	EA	1347	ALA
1	EA	1464	ASP
1	EA	1482	LYS
1	EA	1503	HIS
1	EA	1650	GLY
2	EB	475	GLY
2	EB	559	SER
2	EB	701	ALA
2	EB	756	LEU
2	EB	835	GLU
2	EB	877	SER
2	EB	966	SER
2	EB	971	ALA
2	EB	988	GLU
2	EB	1025	ASP
2	EB	1038	HIS
2	EB	1043	LYS
3	EC	100	ARG
3	EC	129	GLU
3	EC	173	GLY
3	EC	191	ILE
3	EC	279	VAL
3	EC	303	GLU
3	EC	307	ALA
5	EE	49	SER

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Mol	Chain	Res	Type
5	EE	114	ASN
5	EE	138	ALA
7	EG	12	GLU
7	EG	19	LYS
7	EG	20	HIS
7	EG	100	THR
7	EG	152	ALA
7	EG	164	VAL
7	EG	221	ASN
7	EG	249	LEU
8	EH	76	THR
9	EI	5	GLY
10	EJ	5	VAL
10	EJ	55	ASP
11	EK	99	ASN
12	EL	46	VAL
13	EM	7	VAL
13	EM	13	GLU
13	EM	16	GLN
13	EM	17	ASP
13	EM	114	LYS
14	EN	73	ASP
1	FA	547	ILE
1	FA	759	TYR
1	FA	850	SER
1	FA	853	THR
1	FA	1160	GLY
1	FA	1272	VAL
1	FA	1347	ALA
1	FA	1464	ASP
1	FA	1482	LYS
1	FA	1503	HIS
1	FA	1650	GLY
2	FB	368	GLN
2	FB	475	GLY
2	FB	559	SER
2	FB	810	ASP
2	FB	835	GLU
2	FB	877	SER
2	FB	966	SER
2	FB	971	ALA
2	FB	988	GLU

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Mol	Chain	Res	Type
2	FB	1038	HIS
2	FB	1043	LYS
3	FC	100	ARG
3	FC	173	GLY
3	FC	279	VAL
3	FC	303	GLU
5	FE	114	ASN
5	FE	144	ILE
7	FG	12	GLU
7	FG	19	LYS
7	FG	20	HIS
7	FG	100	THR
7	FG	152	ALA
7	FG	164	VAL
7	FG	249	LEU
8	FH	77	ARG
9	FI	5	GLY
9	FI	21	ASN
9	FI	95	ASN
10	FJ	5	VAL
10	FJ	55	ASP
11	FK	59	THR
11	FK	99	ASN
12	FL	46	VAL
13	FM	13	GLU
13	FM	17	ASP
14	FN	32	CYS
14	FN	66	LYS
14	FN	73	ASP
7	FO	282	ASP
1	AA	216	ARG
1	AA	347	ARG
1	AA	538	ASN
1	AA	552	GLU
1	AA	704	ASP
1	AA	759	TYR
1	AA	843	ARG
1	AA	853	THR
1	AA	940	VAL
1	AA	956	ARG
1	AA	1160	GLY
1	AA	1347	ALA

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Mol	Chain	Res	Type
1	AA	1541	ILE
2	AB	38	LEU
2	AB	60	LEU
2	AB	167	SER
2	AB	291	GLY
2	AB	662	ASP
2	AB	756	LEU
2	AB	767	ASN
2	AB	989	ASP
2	AB	1022	LEU
2	AB	1045	GLN
2	AB	1156	SER
2	AB	1181	VAL
3	AC	303	GLU
3	AC	307	ALA
5	AE	2	ASP
9	AI	95	ASN
10	AJ	61	LEU
11	AK	59	THR
13	AM	16	GLN
13	AM	49	ASP
14	AN	65	SER
14	AN	66	LYS
14	AN	115	SER
14	AN	179	ASP
7	AO	304	ASN
1	BA	138	GLU
1	BA	216	ARG
1	BA	442	LYS
1	BA	538	ASN
1	BA	552	GLU
1	BA	619	ALA
1	BA	704	ASP
1	BA	940	VAL
1	BA	1033	SER
1	BA	1050	TYR
1	BA	1347	ALA
1	BA	1503	HIS
1	BA	1527	GLN
2	BB	499	HIS
2	BB	756	LEU
2	BB	867	ASN

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Mol	Chain	Res	Type
2	BB	898	LEU
2	BB	966	SER
2	BB	1022	LEU
2	BB	1045	GLN
3	BC	174	ARG
3	BC	191	ILE
3	BC	217	ALA
3	BC	307	ALA
5	BE	206	GLY
8	BH	20	TYR
10	BJ	55	ASP
11	BK	59	THR
13	BM	16	GLN
13	BM	19	PRO
14	BN	66	LYS
14	BN	115	SER
1	CA	211	THR
1	CA	347	ARG
1	CA	442	LYS
1	CA	520	ARG
1	CA	538	ASN
1	CA	1050	TYR
1	CA	1245	ASP
1	CA	1347	ALA
1	CA	1541	ILE
2	CB	10	GLN
2	CB	167	SER
2	CB	291	GLY
2	CB	398	GLN
2	CB	662	ASP
2	CB	767	ASN
2	CB	966	SER
2	CB	1022	LEU
2	CB	1045	GLN
3	CC	129	GLU
7	CG	19	LYS
7	CG	101	SER
8	CH	20	TYR
9	CI	95	ASN
10	CJ	5	VAL
11	CK	59	THR
14	CN	66	LYS

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Mol	Chain	Res	Type
14	CN	78	THR
14	CN	115	SER
1	DA	442	LYS
1	DA	619	ALA
1	DA	791	TYR
1	DA	853	THR
1	DA	1033	SER
1	DA	1050	TYR
1	DA	1347	ALA
2	DB	76	GLY
2	DB	212	ASN
2	DB	398	GLN
2	DB	701	ALA
2	DB	756	LEU
2	DB	767	ASN
2	DB	989	ASP
2	DB	1022	LEU
2	DB	1094	ASN
2	DB	1181	VAL
3	DC	174	ARG
3	DC	191	ILE
3	DC	303	GLU
3	DC	307	ALA
5	DE	2	ASP
7	DG	222	GLY
10	DJ	55	ASP
11	DK	59	THR
13	DM	16	GLN
14	DN	66	LYS
14	DN	83	ASP
14	DN	115	SER
14	DN	125	ALA
1	EA	74	GLY
1	EA	211	THR
1	EA	520	ARG
1	EA	538	ASN
1	EA	552	GLU
1	EA	558	ALA
1	EA	677	GLY
1	EA	701	ARG
1	EA	704	ASP
1	EA	843	ARG

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Mol	Chain	Res	Type
1	EA	853	THR
1	EA	956	ARG
1	EA	1033	SER
1	EA	1527	GLN
1	EA	1541	ILE
2	EB	38	LEU
2	EB	167	SER
2	EB	291	GLY
2	EB	367	SER
2	EB	767	ASN
2	EB	898	LEU
2	EB	1181	VAL
3	EC	68	ARG
8	EH	77	ARG
9	EI	95	ASN
11	EK	59	THR
13	EM	19	PRO
14	EN	32	CYS
14	EN	66	LYS
14	EN	115	SER
7	EO	291	SER
1	FA	216	ARG
1	FA	347	ARG
1	FA	520	ARG
1	FA	552	GLU
1	FA	677	GLY
1	FA	701	ARG
1	FA	704	ASP
1	FA	956	ARG
1	FA	1050	TYR
1	FA	1527	GLN
2	FB	20	GLU
2	FB	38	LEU
2	FB	60	LEU
2	FB	91	LEU
2	FB	167	SER
2	FB	291	GLY
2	FB	349	VAL
2	FB	398	GLN
2	FB	701	ALA
2	FB	756	LEU
2	FB	767	ASN

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Mol	Chain	Res	Type
2	FB	1007	TYR
2	FB	1022	LEU
3	FC	129	GLU
3	FC	174	ARG
3	FC	191	ILE
3	FC	217	ALA
3	FC	307	ALA
5	FE	2	ASP
7	FG	30	GLU
7	FG	32	ASN
7	FG	222	GLY
8	FH	20	TYR
9	FI	83	LYS
13	FM	16	GLN
13	FM	19	PRO
13	FM	114	LYS
14	FN	83	ASP
14	FN	115	SER
14	FN	125	ALA
7	FO	307	GLU
1	AA	211	THR
1	AA	442	LYS
1	AA	627	ASP
1	AA	701	ARG
1	AA	1033	SER
1	AA	1050	TYR
1	AA	1245	ASP
1	AA	1473	LYS
2	AB	212	ASN
2	AB	398	GLN
2	AB	519	LYS
2	AB	532	HIS
2	AB	701	ALA
2	AB	867	ASN
3	AC	87	ASN
5	AE	206	GLY
7	AG	32	ASN
7	AG	222	GLY
13	AM	19	PRO
14	AN	78	THR
14	AN	83	ASP
1	BA	211	THR

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Mol	Chain	Res	Type
1	BA	441	THR
1	BA	558	ALA
1	BA	627	ASP
1	BA	701	ARG
1	BA	843	ARG
1	BA	956	ARG
1	BA	987	TYR
1	BA	1245	ASP
1	BA	1473	LYS
2	BB	20	GLU
2	BB	291	GLY
2	BB	398	GLN
2	BB	662	ASP
2	BB	701	ALA
2	BB	767	ASN
2	BB	1094	ASN
2	BB	1156	SER
3	BC	68	ARG
5	BE	2	ASP
7	BG	30	GLU
7	BG	32	ASN
7	BG	222	GLY
10	BJ	17	LYS
13	BM	49	ASP
14	BN	78	THR
14	BN	83	ASP
14	BN	125	ALA
1	CA	22	LYS
1	CA	216	ARG
1	CA	552	GLU
1	CA	627	ASP
1	CA	701	ARG
1	CA	837	ALA
1	CA	956	ARG
1	CA	1441	LYS
1	CA	1473	LYS
1	CA	1527	GLN
2	CB	60	LEU
2	CB	212	ASN
2	CB	519	LYS
2	CB	701	ALA
2	CB	867	ASN

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Mol	Chain	Res	Type
2	CB	989	ASP
2	CB	1061	LYS
2	CB	1156	SER
3	CC	99	HIS
7	CG	30	GLU
7	CG	222	GLY
13	CM	19	PRO
14	CN	83	ASP
14	CN	125	ALA
1	DA	211	THR
1	DA	216	ARG
1	DA	347	ARG
1	DA	441	THR
1	DA	538	ASN
1	DA	552	GLU
1	DA	627	ASP
1	DA	701	ARG
1	DA	843	ARG
1	DA	940	VAL
1	DA	956	ARG
1	DA	1245	ASP
1	DA	1441	LYS
1	DA	1473	LYS
1	DA	1527	GLN
2	DB	60	LEU
2	DB	519	LYS
2	DB	616	LYS
2	DB	662	ASP
2	DB	966	SER
2	DB	1045	GLN
2	DB	1156	SER
7	DG	29	ASP
7	DG	30	GLU
7	DG	101	SER
8	DH	6	PHE
8	DH	20	TYR
8	DH	145	ARG
9	DI	95	ASN
13	DM	19	PRO
14	DN	65	SER
14	DN	78	THR
7	DO	274	SER

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Mol	Chain	Res	Type
1	EA	138	GLU
1	EA	188	TYR
1	EA	216	ARG
1	EA	347	ARG
1	EA	619	ALA
1	EA	627	ASP
1	EA	1344	ILE
1	EA	1441	LYS
1	EA	1473	LYS
2	EB	77	LYS
2	EB	257	GLN
2	EB	297	VAL
2	EB	662	ASP
2	EB	989	ASP
2	EB	1007	TYR
2	EB	1022	LEU
2	EB	1045	GLN
3	EC	99	HIS
3	EC	174	ARG
7	EG	30	GLU
7	EG	222	GLY
8	EH	6	PHE
13	EM	49	ASP
14	EN	65	SER
14	EN	125	ALA
7	EO	271	PRO
1	FA	442	LYS
1	FA	538	ASN
1	FA	627	ASP
1	FA	923	ASN
1	FA	940	VAL
1	FA	1441	LYS
1	FA	1473	LYS
1	FA	1541	ILE
2	FB	257	GLN
2	FB	494	TYR
2	FB	519	LYS
2	FB	867	ASN
2	FB	894	LYS
2	FB	1045	GLN
2	FB	1156	SER
3	FC	68	ARG

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Mol	Chain	Res	Type
7	FG	29	ASP
7	FG	101	SER
8	FH	6	PHE
8	FH	138	GLU
14	FN	65	SER
14	FN	78	THR
7	FO	294	GLU
1	AA	138	GLU
1	AA	322	ASN
1	AA	441	THR
1	AA	987	TYR
1	AA	1441	LYS
1	AA	1527	GLN
1	AA	1586	ALA
2	AB	257	GLN
2	AB	1052	VAL
2	AB	1094	ASN
2	AB	1153	ILE
3	AC	68	ARG
3	AC	304	SER
7	AG	30	GLU
8	AH	20	TYR
10	AJ	17	LYS
13	AM	12	ILE
13	AM	88	ILE
14	AN	140	SER
7	AO	282	ASP
1	BA	791	TYR
1	BA	1025	LYS
1	BA	1344	ILE
1	BA	1441	LYS
2	BB	519	LYS
2	BB	532	HIS
2	BB	1052	VAL
3	BC	87	ASN
3	BC	94	ASP
5	BE	102	GLU
7	BG	29	ASP
7	BG	57	PRO
8	BH	6	PHE
8	BH	138	GLU
8	BH	145	ARG

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Mol	Chain	Res	Type
13	BM	12	ILE
1	CA	188	TYR
1	CA	466	LEU
1	CA	623	ALA
1	CA	625	ASN
1	CA	794	VAL
1	CA	887	ASN
1	CA	940	VAL
1	CA	987	TYR
2	CB	349	VAL
2	CB	494	TYR
2	CB	898	LEU
2	CB	965	GLU
2	CB	1052	VAL
2	CB	1094	ASN
2	CB	1153	ILE
3	CC	87	ASN
3	CC	94	ASP
3	CC	217	ALA
5	CE	2	ASP
5	CE	206	GLY
8	CH	6	PHE
10	CJ	17	LYS
13	CM	12	ILE
13	CM	49	ASP
14	CN	65	SER
14	CN	72	VAL
7	CO	281	ASP
1	DA	188	TYR
1	DA	558	ALA
1	DA	623	ALA
1	DA	625	ASN
1	DA	987	TYR
1	DA	1185	VAL
1	DA	1472	PHE
1	DA	1502	PRO
2	DB	257	GLN
2	DB	291	GLY
2	DB	349	VAL
2	DB	867	ASN
2	DB	1052	VAL
3	DC	94	ASP

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Mol	Chain	Res	Type
3	DC	286	ALA
3	DC	304	SER
7	DG	32	ASN
7	DG	109	PRO
8	DH	138	GLU
13	DM	88	ILE
7	DO	267	ALA
1	EA	22	LYS
1	EA	623	ALA
1	EA	804	GLU
1	EA	837	ALA
1	EA	1068	PHE
1	EA	1245	ASP
2	EB	20	GLU
2	EB	60	LEU
2	EB	494	TYR
2	EB	519	LYS
2	EB	1052	VAL
2	EB	1061	LYS
2	EB	1094	ASN
2	EB	1156	SER
3	EC	71	MET
3	EC	94	ASP
3	EC	304	SER
4	ED	26	GLN
5	EE	2	ASP
5	EE	206	GLY
7	EG	109	PRO
8	EH	20	TYR
8	EH	138	GLU
10	EJ	17	LYS
14	EN	78	THR
14	EN	83	ASP
7	EO	300	VAL
7	EO	308	ILE
1	FA	141	LEU
1	FA	322	ASN
1	FA	558	ALA
1	FA	610	ASN
1	FA	794	VAL
1	FA	843	ARG
1	FA	887	ASN

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Mol	Chain	Res	Type
1	FA	1245	ASP
2	FB	89	GLY
2	FB	662	ASP
2	FB	989	ASP
2	FB	1052	VAL
2	FB	1061	LYS
2	FB	1094	ASN
2	FB	1153	ILE
3	FC	87	ASN
3	FC	94	ASP
3	FC	286	ALA
3	FC	310	PRO
7	FG	109	PRO
9	FI	102	ARG
13	FM	12	ILE
13	FM	88	ILE
1	AA	188	TYR
1	AA	466	LEU
1	AA	623	ALA
1	AA	677	GLY
1	AA	1185	VAL
1	AA	1502	PRO
2	AB	349	VAL
2	AB	657	PRO
2	AB	1061	LYS
3	AC	115	TRP
3	AC	149	GLY
3	AC	310	PRO
7	AG	109	PRO
1	BA	188	TYR
1	BA	623	ALA
1	BA	794	VAL
1	BA	1068	PHE
1	BA	1502	PRO
2	BB	911	PRO
2	BB	913	ILE
2	BB	1181	VAL
6	BF	139	PRO
13	BM	88	ILE
14	BN	65	SER
1	CA	53	ALA
1	CA	393	SER

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Mol	Chain	Res	Type
1	CA	677	GLY
1	CA	843	ARG
1	CA	1067	GLU
1	CA	1502	PRO
1	CA	1621	PHE
2	CB	257	GLN
2	CB	499	HIS
2	CB	532	HIS
2	CB	913	ILE
3	CC	149	GLY
6	CF	139	PRO
7	CG	109	PRO
9	CI	102	ARG
13	CM	88	ILE
7	CO	279	VAL
1	DA	677	GLY
1	DA	790	LYS
1	DA	794	VAL
1	DA	1586	ALA
2	DB	657	PRO
2	DB	898	LEU
2	DB	972	GLY
2	DB	1153	ILE
3	DC	87	ASN
3	DC	149	GLY
3	DC	310	PRO
10	DJ	17	LYS
13	DM	49	ASP
1	EA	466	LEU
1	EA	794	VAL
2	EB	491	ILE
2	EB	657	PRO
2	EB	867	ASN
9	EI	83	LYS
13	EM	12	ILE
14	EN	140	SER
1	FA	463	LYS
1	FA	564	PRO
1	FA	623	ALA
1	FA	1005	GLY
1	FA	1081	ASN
1	FA	1183	GLU

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Mol	Chain	Res	Type
1	FA	1185	VAL
1	FA	1502	PRO
1	FA	1586	ALA
2	FB	657	PRO
2	FB	913	ILE
2	FB	1093	LEU
2	FB	1120	ILE
2	FB	1181	VAL
4	FD	26	GLN
5	FE	206	GLY
6	FF	112	GLU
6	FF	139	PRO
7	FG	57	PRO
14	FN	140	SER
1	AA	1005	GLY
1	BA	564	PRO
1	BA	677	GLY
3	BC	149	GLY
14	BN	72	VAL
3	CC	252	PRO
7	CO	271	PRO
1	DA	1005	GLY
1	DA	1602	GLY
2	DB	911	PRO
2	DB	913	ILE
5	DE	206	GLY
6	DF	139	PRO
7	DG	57	PRO
11	DK	84	PRO
13	DM	12	ILE
14	DN	72	VAL
1	EA	1005	GLY
1	EA	1502	PRO
2	EB	349	VAL
2	EB	972	GLY
2	EB	1120	ILE
2	EB	1153	ILE
3	EC	149	GLY
6	EF	139	PRO
7	EG	57	PRO
11	EK	84	PRO
13	EM	88	ILE

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Mol	Chain	Res	Type
2	FB	76	GLY
2	FB	911	PRO
2	FB	972	GLY
3	FC	149	GLY
3	FC	252	PRO
14	FN	72	VAL
1	AA	564	PRO
1	AA	794	VAL
1	AA	1602	GLY
2	AB	148	GLY
2	AB	911	PRO
2	AB	913	ILE
6	AF	139	PRO
11	AK	109	GLY
1	BA	1160	GLY
1	BA	1185	VAL
2	BB	349	VAL
2	BB	972	GLY
3	BC	132	ILE
7	BG	109	PRO
2	CB	657	PRO
7	CG	57	PRO
1	DA	564	PRO
2	DB	903	ILE
7	DG	86	GLY
1	EA	564	PRO
1	EA	793	ILE
1	EA	1081	ASN
1	EA	1602	GLY
3	EC	147	PRO
8	EH	107	VAL
14	EN	72	VAL
10	FJ	14	VAL
11	FK	109	GLY
1	AA	742	PRO
1	AA	1509	HIS
2	AB	297	VAL
7	AG	57	PRO
10	AJ	14	VAL
2	BB	1062	GLY
3	BC	310	PRO
1	CA	564	PRO

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Mol	Chain	Res	Type
1	CA	1081	ASN
1	CA	1344	ILE
2	CB	148	GLY
2	CB	297	VAL
2	CB	491	ILE
2	CB	972	GLY
3	CC	310	PRO
10	CJ	14	VAL
11	CK	109	GLY
2	DB	148	GLY
2	DB	1062	GLY
3	DC	147	PRO
11	DK	109	GLY
1	EA	1185	VAL
2	EB	148	GLY
2	EB	833	PRO
2	EB	1062	GLY
3	EC	132	ILE
1	FA	1602	GLY
2	FB	148	GLY
1	AA	1344	ILE
2	AB	491	ILE
2	AB	1062	GLY
2	AB	1120	ILE
3	AC	147	PRO
8	AH	18	GLY
14	AN	72	VAL
1	BA	1081	ASN
2	BB	148	GLY
2	BB	491	ILE
2	BB	657	PRO
2	BB	1120	ILE
3	BC	147	PRO
10	BJ	14	VAL
11	BK	109	GLY
1	CA	3	ILE
2	CB	833	PRO
2	CB	911	PRO
2	CB	960	ILE
1	DA	1322	ILE
2	DB	297	VAL
2	DB	491	ILE

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Mol	Chain	Res	Type
3	DC	252	PRO
8	DH	82	PRO
10	DJ	14	VAL
10	EJ	14	VAL
11	EK	109	GLY
1	FA	323	ILE
1	FA	1344	ILE
1	FA	1509	HIS
2	FB	491	ILE
2	FB	903	ILE
2	FB	1062	GLY
3	FC	147	PRO
13	FM	113	ILE
1	AA	1081	ASN
1	AA	1118	VAL
2	AB	833	PRO
2	AB	972	GLY
3	AC	252	PRO
1	CA	1185	VAL
1	CA	1602	GLY
2	CB	903	ILE
2	CB	1062	GLY
13	DM	113	ILE
1	FA	1118	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	AA	1310/1465 (89%)	993 (76%)	317 (24%)	1 5
1	BA	1290/1465 (88%)	978 (76%)	312 (24%)	1 5
1	CA	1308/1465 (89%)	990 (76%)	318 (24%)	1 4
1	DA	1309/1465 (89%)	983 (75%)	326 (25%)	0 4
1	EA	1309/1465 (89%)	986 (75%)	323 (25%)	1 4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	FA	1309/1465 (89%)	990 (76%)	319 (24%)	1 4
2	AB	1012/1053 (96%)	758 (75%)	254 (25%)	0 4
2	BB	1010/1053 (96%)	758 (75%)	252 (25%)	0 4
2	CB	1024/1053 (97%)	758 (74%)	266 (26%)	0 4
2	DB	1020/1053 (97%)	763 (75%)	257 (25%)	0 4
2	EB	1021/1053 (97%)	766 (75%)	255 (25%)	0 4
2	FB	1021/1053 (97%)	757 (74%)	264 (26%)	0 4
3	AC	268/296 (90%)	212 (79%)	56 (21%)	1 7
3	BC	268/296 (90%)	212 (79%)	56 (21%)	1 7
3	CC	268/296 (90%)	215 (80%)	53 (20%)	1 8
3	DC	268/296 (90%)	213 (80%)	55 (20%)	1 7
3	EC	268/296 (90%)	212 (79%)	56 (21%)	1 7
3	FC	268/296 (90%)	212 (79%)	56 (21%)	1 7
4	AD	55/116 (47%)	45 (82%)	10 (18%)	2 9
4	BD	55/116 (47%)	46 (84%)	9 (16%)	2 11
4	CD	55/116 (47%)	46 (84%)	9 (16%)	2 11
4	DD	55/116 (47%)	45 (82%)	10 (18%)	2 9
4	ED	55/116 (47%)	45 (82%)	10 (18%)	2 9
4	FD	55/116 (47%)	46 (84%)	9 (16%)	2 11
5	AE	197/197 (100%)	154 (78%)	43 (22%)	1 6
5	BE	197/197 (100%)	155 (79%)	42 (21%)	1 6
5	CE	197/197 (100%)	152 (77%)	45 (23%)	1 6
5	DE	197/197 (100%)	152 (77%)	45 (23%)	1 6
5	EE	197/197 (100%)	155 (79%)	42 (21%)	1 6
5	FE	197/197 (100%)	153 (78%)	44 (22%)	1 6
6	AF	88/137 (64%)	73 (83%)	15 (17%)	2 10
6	BF	88/137 (64%)	73 (83%)	15 (17%)	2 10
6	CF	89/137 (65%)	72 (81%)	17 (19%)	1 8
6	DF	89/137 (65%)	73 (82%)	16 (18%)	2 9
6	EF	89/137 (65%)	73 (82%)	16 (18%)	2 9
6	FF	89/137 (65%)	73 (82%)	16 (18%)	2 9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	AG	180/291 (62%)	126 (70%)	54 (30%)	0 2
7	AO	50/291 (17%)	28 (56%)	22 (44%)	0 0
7	BG	173/291 (60%)	123 (71%)	50 (29%)	0 2
7	BO	49/291 (17%)	32 (65%)	17 (35%)	0 1
7	CG	180/291 (62%)	122 (68%)	58 (32%)	0 2
7	CO	48/291 (16%)	30 (62%)	18 (38%)	0 1
7	DG	180/291 (62%)	123 (68%)	57 (32%)	0 2
7	DO	50/291 (17%)	29 (58%)	21 (42%)	0 0
7	EG	180/291 (62%)	125 (69%)	55 (31%)	0 2
7	EO	50/291 (17%)	33 (66%)	17 (34%)	0 1
7	FG	180/291 (62%)	122 (68%)	58 (32%)	0 2
7	FO	50/291 (17%)	34 (68%)	16 (32%)	0 2
8	AH	116/128 (91%)	83 (72%)	33 (28%)	0 3
8	BH	115/128 (90%)	82 (71%)	33 (29%)	0 3
8	CH	115/128 (90%)	79 (69%)	36 (31%)	0 2
8	DH	117/128 (91%)	81 (69%)	36 (31%)	0 2
8	EH	117/128 (91%)	84 (72%)	33 (28%)	0 3
8	FH	117/128 (91%)	83 (71%)	34 (29%)	0 2
9	AI	109/110 (99%)	84 (77%)	25 (23%)	1 6
9	BI	86/110 (78%)	69 (80%)	17 (20%)	1 8
9	CI	109/110 (99%)	82 (75%)	27 (25%)	1 4
9	DI	109/110 (99%)	82 (75%)	27 (25%)	1 4
9	EI	104/110 (94%)	78 (75%)	26 (25%)	0 4
9	FI	109/110 (99%)	84 (77%)	25 (23%)	1 6
10	AJ	63/65 (97%)	46 (73%)	17 (27%)	0 3
10	BJ	64/65 (98%)	49 (77%)	15 (23%)	1 5
10	CJ	63/65 (97%)	46 (73%)	17 (27%)	0 3
10	DJ	64/65 (98%)	47 (73%)	17 (27%)	0 3
10	EJ	63/65 (97%)	45 (71%)	18 (29%)	0 3
10	FJ	63/65 (97%)	45 (71%)	18 (29%)	0 3
11	AK	91/130 (70%)	64 (70%)	27 (30%)	0 2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
11	BK	90/130 (69%)	63 (70%)	27 (30%)	0 2
11	CK	91/130 (70%)	66 (72%)	25 (28%)	0 3
11	DK	91/130 (70%)	64 (70%)	27 (30%)	0 2
11	EK	90/130 (69%)	64 (71%)	26 (29%)	0 2
11	FK	90/130 (69%)	63 (70%)	27 (30%)	0 2
12	AL	39/57 (68%)	26 (67%)	13 (33%)	0 2
12	BL	39/57 (68%)	26 (67%)	13 (33%)	0 2
12	CL	39/57 (68%)	26 (67%)	13 (33%)	0 2
12	DL	39/57 (68%)	26 (67%)	13 (33%)	0 2
12	EL	39/57 (68%)	26 (67%)	13 (33%)	0 2
12	FL	39/57 (68%)	26 (67%)	13 (33%)	0 2
13	AM	99/371 (27%)	71 (72%)	28 (28%)	0 3
13	BM	99/371 (27%)	70 (71%)	29 (29%)	0 2
13	CM	99/371 (27%)	72 (73%)	27 (27%)	0 3
13	DM	99/371 (27%)	74 (75%)	25 (25%)	0 4
13	EM	100/371 (27%)	72 (72%)	28 (28%)	0 3
13	FM	100/371 (27%)	71 (71%)	29 (29%)	0 2
14	AN	132/220 (60%)	89 (67%)	43 (33%)	0 2
14	BN	133/220 (60%)	93 (70%)	40 (30%)	0 2
14	CN	133/220 (60%)	91 (68%)	42 (32%)	0 2
14	DN	135/220 (61%)	92 (68%)	43 (32%)	0 2
14	EN	134/220 (61%)	92 (69%)	42 (31%)	0 2
14	FN	135/220 (61%)	94 (70%)	41 (30%)	0 2
All	All	22843/29562 (77%)	17084 (75%)	5759 (25%)	0 4

All (5759) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	3	ILE
1	AA	9	SER
1	AA	11	ILE
1	AA	12	THR
1	AA	18	ILE
1	AA	20	THR

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Mol	Chain	Res	Type
1	AA	22	LYS
1	AA	31	GLN
1	AA	40	ASN
1	AA	41	LEU
1	AA	83	VAL
1	AA	86	TYR
1	AA	89	LEU
1	AA	109	ARG
1	AA	112	SER
1	AA	114	GLU
1	AA	121	LYS
1	AA	130	ILE
1	AA	136	LEU
1	AA	176	THR
1	AA	177	LEU
1	AA	180	GLU
1	AA	186	SER
1	AA	189	VAL
1	AA	198	SER
1	AA	199	ASP
1	AA	202	THR
1	AA	203	THR
1	AA	205	ARG
1	AA	225	LYS
1	AA	312	SER
1	AA	315	ILE
1	AA	325	ASP
1	AA	326	THR
1	AA	330	LYS
1	AA	333	CYS
1	AA	345	LEU
1	AA	346	SER
1	AA	347	ARG
1	AA	349	LEU
1	AA	357	MET
1	AA	365	THR
1	AA	366	ARG
1	AA	371	SER
1	AA	372	LYS
1	AA	375	GLU
1	AA	381	SER
1	AA	394	LEU

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Mol	Chain	Res	Type
1	AA	397	ARG
1	AA	403	LEU
1	AA	406	LEU
1	AA	407	GLN
1	AA	409	ASP
1	AA	417	ARG
1	AA	423	LEU
1	AA	429	THR
1	AA	453	ILE
1	AA	462	LYS
1	AA	464	GLU
1	AA	466	LEU
1	AA	475	ARG
1	AA	476	VAL
1	AA	481	ARG
1	AA	483	VAL
1	AA	484	ILE
1	AA	485	SER
1	AA	500	VAL
1	AA	504	LYS
1	AA	505	LEU
1	AA	506	THR
1	AA	512	THR
1	AA	524	ILE
1	AA	529	LYS
1	AA	534	THR
1	AA	545	SER
1	AA	549	MET
1	AA	553	GLN
1	AA	555	LYS
1	AA	559	ASN
1	AA	562	LEU
1	AA	565	SER
1	AA	566	SER
1	AA	568	VAL
1	AA	574	ASN
1	AA	575	LYS
1	AA	576	LYS
1	AA	577	VAL
1	AA	581	ILE
1	AA	582	LYS
1	AA	583	ASN

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Mol	Chain	Res	Type
1	AA	590	ASN
1	AA	594	THR
1	AA	595	LEU
1	AA	596	HIS
1	AA	599	SER
1	AA	611	GLU
1	AA	613	THR
1	AA	621	THR
1	AA	627	ASP
1	AA	648	LEU
1	AA	653	THR
1	AA	659	THR
1	AA	666	VAL
1	AA	670	ILE
1	AA	675	SER
1	AA	678	VAL
1	AA	679	TRP
1	AA	681	THR
1	AA	684	ASP
1	AA	688	THR
1	AA	689	ARG
1	AA	700	ILE
1	AA	703	GLU
1	AA	706	HIS
1	AA	709	ARG
1	AA	713	VAL
1	AA	715	LEU
1	AA	718	THR
1	AA	719	ILE
1	AA	721	LYS
1	AA	723	TYR
1	AA	727	THR
1	AA	732	ILE
1	AA	736	LEU
1	AA	743	ASP
1	AA	744	MET
1	AA	748	ASN
1	AA	750	ILE
1	AA	755	ILE
1	AA	769	VAL
1	AA	772	LYS
1	AA	773	ASP

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Mol	Chain	Res	Type
1	AA	783	LYS
1	AA	789	SER
1	AA	804	GLU
1	AA	805	VAL
1	AA	808	LYS
1	AA	809	VAL
1	AA	810	LEU
1	AA	812	VAL
1	AA	816	LEU
1	AA	821	ILE
1	AA	822	THR
1	AA	830	MET
1	AA	831	ASP
1	AA	833	LEU
1	AA	836	THR
1	AA	856	GLU
1	AA	861	VAL
1	AA	862	THR
1	AA	876	LEU
1	AA	878	ARG
1	AA	882	ILE
1	AA	886	ASN
1	AA	889	SER
1	AA	892	LEU
1	AA	896	THR
1	AA	907	VAL
1	AA	917	MET
1	AA	922	CYS
1	AA	924	SER
1	AA	928	MET
1	AA	945	CYS
1	AA	952	LEU
1	AA	955	ARG
1	AA	956	ARG
1	AA	957	VAL
1	AA	959	VAL
1	AA	961	VAL
1	AA	964	LYS
1	AA	966	LEU
1	AA	973	GLU
1	AA	983	LYS
1	AA	985	ARG

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Mol	Chain	Res	Type
1	AA	987	TYR
1	AA	999	CYS
1	AA	1003	ARG
1	AA	1004	GLU
1	AA	1006	LEU
1	AA	1013	THR
1	AA	1015	ARG
1	AA	1019	LEU
1	AA	1021	ARG
1	AA	1023	LEU
1	AA	1026	GLN
1	AA	1030	VAL
1	AA	1033	SER
1	AA	1045	LEU
1	AA	1049	MET
1	AA	1053	ASP
1	AA	1057	ILE
1	AA	1059	LYS
1	AA	1072	ASN
1	AA	1076	LEU
1	AA	1083	SER
1	AA	1085	LEU
1	AA	1086	ILE
1	AA	1087	GLU
1	AA	1096	LYS
1	AA	1102	LEU
1	AA	1104	TYR
1	AA	1111	GLU
1	AA	1117	SER
1	AA	1118	VAL
1	AA	1123	VAL
1	AA	1135	SER
1	AA	1136	VAL
1	AA	1137	SER
1	AA	1143	LYS
1	AA	1146	SER
1	AA	1158	SER
1	AA	1159	ASP
1	AA	1169	LEU
1	AA	1172	LEU
1	AA	1173	LYS
1	AA	1175	MET

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Mol	Chain	Res	Type
1	AA	1188	ILE
1	AA	1192	SER
1	AA	1199	GLN
1	AA	1202	LEU
1	AA	1214	ASN
1	AA	1217	LEU
1	AA	1222	LEU
1	AA	1226	VAL
1	AA	1227	MET
1	AA	1235	THR
1	AA	1239	THR
1	AA	1242	ILE
1	AA	1243	TRP
1	AA	1245	ASP
1	AA	1247	SER
1	AA	1250	GLN
1	AA	1252	ASP
1	AA	1253	THR
1	AA	1260	LYS
1	AA	1262	LEU
1	AA	1264	SER
1	AA	1267	ILE
1	AA	1268	ASP
1	AA	1271	ILE
1	AA	1272	VAL
1	AA	1273	THR
1	AA	1275	THR
1	AA	1276	THR
1	AA	1278	THR
1	AA	1279	SER
1	AA	1288	ARG
1	AA	1289	SER
1	AA	1292	ILE
1	AA	1294	MET
1	AA	1298	ASP
1	AA	1301	GLU
1	AA	1303	SER
1	AA	1304	GLU
1	AA	1305	GLU
1	AA	1310	LYS
1	AA	1314	GLN
1	AA	1318	SER

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Mol	Chain	Res	Type
1	AA	1324	LEU
1	AA	1325	LEU
1	AA	1343	ASP
1	AA	1344	ILE
1	AA	1437	ASN
1	AA	1439	MET
1	AA	1440	ASN
1	AA	1441	LYS
1	AA	1442	VAL
1	AA	1444	ARG
1	AA	1452	SER
1	AA	1453	HIS
1	AA	1457	ILE
1	AA	1458	THR
1	AA	1459	LYS
1	AA	1465	GLU
1	AA	1466	SER
1	AA	1468	LYS
1	AA	1474	LEU
1	AA	1476	LEU
1	AA	1481	GLU
1	AA	1485	MET
1	AA	1497	ILE
1	AA	1501	ILE
1	AA	1506	ARG
1	AA	1513	GLU
1	AA	1514	ASN
1	AA	1518	VAL
1	AA	1519	LEU
1	AA	1520	VAL
1	AA	1529	MET
1	AA	1536	ILE
1	AA	1542	THR
1	AA	1546	VAL
1	AA	1559	ARG
1	AA	1561	THR
1	AA	1562	ILE
1	AA	1566	ILE
1	AA	1568	ASN
1	AA	1582	LEU
1	AA	1583	ASP
1	AA	1584	LEU

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Mol	Chain	Res	Type
1	AA	1585	ILE
1	AA	1590	THR
1	AA	1603	MET
1	AA	1607	THR
1	AA	1609	SER
1	AA	1613	MET
1	AA	1619	CYS
1	AA	1620	GLN
1	AA	1623	THR
1	AA	1628	ASP
1	AA	1629	ASN
1	AA	1633	GLN
1	AA	1635	ASP
1	AA	1638	SER
1	AA	1647	ASN
1	AA	1649	VAL
1	AA	1656	VAL
2	AB	19	LEU
2	AB	21	ARG
2	AB	22	GLU
2	AB	26	ILE
2	AB	33	SER
2	AB	37	LEU
2	AB	39	GLN
2	AB	42	VAL
2	AB	53	THR
2	AB	57	ASP
2	AB	65	VAL
2	AB	66	LYS
2	AB	68	ILE
2	AB	73	ILE
2	AB	74	PHE
2	AB	93	ASN
2	AB	96	SER
2	AB	101	GLN
2	AB	103	SER
2	AB	109	SER
2	AB	110	ASN
2	AB	117	VAL
2	AB	120	LYS
2	AB	124	SER
2	AB	130	LEU

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Mol	Chain	Res	Type
2	AB	137	LEU
2	AB	150	GLU
2	AB	151	ASN
2	AB	164	MET
2	AB	170	CYS
2	AB	181	VAL
2	AB	190	ILE
2	AB	201	LYS
2	AB	202	LEU
2	AB	203	ILE
2	AB	204	ARG
2	AB	206	LEU
2	AB	207	ILE
2	AB	212	ASN
2	AB	217	ILE
2	AB	228	SER
2	AB	231	HIS
2	AB	237	ARG
2	AB	238	SER
2	AB	244	THR
2	AB	245	SER
2	AB	247	THR
2	AB	257	GLN
2	AB	276	ILE
2	AB	295	ASN
2	AB	306	LEU
2	AB	309	LEU
2	AB	315	LYS
2	AB	316	ARG
2	AB	323	ARG
2	AB	328	GLN
2	AB	336	VAL
2	AB	343	ASP
2	AB	347	LEU
2	AB	351	GLN
2	AB	357	ILE
2	AB	368	GLN
2	AB	377	MET
2	AB	381	LEU
2	AB	397	THR
2	AB	398	GLN
2	AB	403	LEU

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Mol	Chain	Res	Type
2	AB	404	LEU
2	AB	412	ILE
2	AB	413	LEU
2	AB	417	ILE
2	AB	422	GLN
2	AB	425	ILE
2	AB	432	ILE
2	AB	434	ARG
2	AB	443	LYS
2	AB	452	ARG
2	AB	453	VAL
2	AB	454	ASN
2	AB	460	LYS
2	AB	470	LEU
2	AB	472	SER
2	AB	474	SER
2	AB	476	LEU
2	AB	477	ASP
2	AB	479	GLN
2	AB	497	ILE
2	AB	498	SER
2	AB	505	ARG
2	AB	507	SER
2	AB	519	LYS
2	AB	520	LEU
2	AB	521	LEU
2	AB	523	GLU
2	AB	537	SER
2	AB	541	LEU
2	AB	561	ILE
2	AB	577	PHE
2	AB	583	LEU
2	AB	585	CYS
2	AB	588	ILE
2	AB	593	ILE
2	AB	604	ILE
2	AB	616	LYS
2	AB	617	THR
2	AB	622	ILE
2	AB	624	LEU
2	AB	626	ILE
2	AB	636	GLN

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Mol	Chain	Res	Type
2	AB	642	LEU
2	AB	651	ARG
2	AB	653	VAL
2	AB	654	ARG
2	AB	658	LEU
2	AB	660	LYS
2	AB	661	GLU
2	AB	663	ILE
2	AB	670	VAL
2	AB	674	ILE
2	AB	683	ASN
2	AB	687	THR
2	AB	690	GLU
2	AB	696	ILE
2	AB	698	SER
2	AB	699	ILE
2	AB	703	LEU
2	AB	711	GLN
2	AB	714	ARG
2	AB	716	MET
2	AB	724	GLN
2	AB	725	THR
2	AB	731	VAL
2	AB	733	LEU
2	AB	737	SER
2	AB	738	ASP
2	AB	749	THR
2	AB	751	ILE
2	AB	752	VAL
2	AB	756	LEU
2	AB	762	MET
2	AB	772	VAL
2	AB	773	VAL
2	AB	777	SER
2	AB	779	THR
2	AB	782	ASP
2	AB	783	MET
2	AB	785	ASP
2	AB	789	ILE
2	AB	802	THR
2	AB	806	THR
2	AB	808	LYS

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Mol	Chain	Res	Type
2	AB	809	VAL
2	AB	811	LEU
2	AB	814	ASN
2	AB	823	GLN
2	AB	829	ASN
2	AB	830	ASP
2	AB	833	PRO
2	AB	834	LYS
2	AB	835	GLU
2	AB	837	LEU
2	AB	838	GLU
2	AB	840	LEU
2	AB	842	GLU
2	AB	843	ASP
2	AB	845	LEU
2	AB	848	ILE
2	AB	852	VAL
2	AB	858	ILE
2	AB	865	THR
2	AB	870	LYS
2	AB	871	ILE
2	AB	873	THR
2	AB	876	SER
2	AB	882	ILE
2	AB	883	GLU
2	AB	887	LEU
2	AB	888	ILE
2	AB	891	GLU
2	AB	895	PHE
2	AB	896	GLN
2	AB	897	GLU
2	AB	898	LEU
2	AB	903	ILE
2	AB	904	LYS
2	AB	905	TYR
2	AB	907	ILE
2	AB	910	THR
2	AB	933	THR
2	AB	944	GLN
2	AB	947	ILE
2	AB	949	ILE
2	AB	958	MET

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Mol	Chain	Res	Type
2	AB	960	ILE
2	AB	962	MET
2	AB	965	GLU
2	AB	967	LEU
2	AB	977	ILE
2	AB	985	ILE
2	AB	988	GLU
2	AB	991	THR
2	AB	1015	SER
2	AB	1018	THR
2	AB	1026	ILE
2	AB	1028	VAL
2	AB	1030	VAL
2	AB	1031	VAL
2	AB	1033	TYR
2	AB	1034	GLN
2	AB	1036	LEU
2	AB	1039	MET
2	AB	1040	VAL
2	AB	1044	PHE
2	AB	1045	GLN
2	AB	1047	ARG
2	AB	1056	THR
2	AB	1058	GLN
2	AB	1070	ARG
2	AB	1075	GLU
2	AB	1077	ASP
2	AB	1085	SER
2	AB	1091	ARG
2	AB	1092	LEU
2	AB	1093	LEU
2	AB	1094	ASN
2	AB	1102	SER
2	AB	1103	VAL
2	AB	1109	SER
2	AB	1110	ILE
2	AB	1111	LEU
2	AB	1112	THR
2	AB	1119	ARG
2	AB	1120	ILE
2	AB	1127	CYS
2	AB	1133	MET

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Mol	Chain	Res	Type
2	AB	1136	GLU
2	AB	1140	LYS
2	AB	1142	LEU
2	AB	1150	LYS
2	AB	1151	ILE
2	AB	1153	ILE
2	AB	1156	SER
2	AB	1157	GLN
2	AB	1163	GLN
2	AB	1168	VAL
2	AB	1173	THR
2	AB	1174	THR
2	AB	1181	VAL
2	AB	1185	LEU
2	AB	1189	LEU
2	AB	1190	SER
2	AB	1198	TYR
2	AB	1200	VAL
2	AB	1201	GLU
3	AC	32	ASN
3	AC	45	SER
3	AC	48	ASP
3	AC	51	GLU
3	AC	57	ILE
3	AC	59	ILE
3	AC	61	THR
3	AC	68	ARG
3	AC	69	ARG
3	AC	71	MET
3	AC	72	ILE
3	AC	78	VAL
3	AC	82	TYR
3	AC	86	PHE
3	AC	97	LEU
3	AC	101	ILE
3	AC	118	SER
3	AC	122	ASP
3	AC	128	ASP
3	AC	129	GLU
3	AC	131	THR
3	AC	132	ILE
3	AC	136	LEU

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Mol	Chain	Res	Type
3	AC	139	LYS
3	AC	151	THR
3	AC	168	LYS
3	AC	177	THR
3	AC	185	VAL
3	AC	193	LEU
3	AC	196	LEU
3	AC	202	ILE
3	AC	208	CYS
3	AC	209	ILE
3	AC	210	LEU
3	AC	222	VAL
3	AC	224	THR
3	AC	226	SER
3	AC	235	ILE
3	AC	237	GLN
3	AC	262	SER
3	AC	263	ASP
3	AC	264	GLU
3	AC	267	VAL
3	AC	274	THR
3	AC	275	VAL
3	AC	277	ARG
3	AC	279	VAL
3	AC	287	ASP
3	AC	289	VAL
3	AC	291	LEU
3	AC	294	VAL
3	AC	303	GLU
3	AC	313	ILE
3	AC	321	LEU
3	AC	324	LYS
3	AC	334	THR
4	AD	12	THR
4	AD	14	THR
4	AD	20	VAL
4	AD	47	LYS
4	AD	80	THR
4	AD	82	LEU
4	AD	87	SER
4	AD	88	GLN
4	AD	94	ARG

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Mol	Chain	Res	Type
4	AD	99	LEU
5	AE	4	GLU
5	AE	6	GLU
5	AE	8	ASN
5	AE	9	ILE
5	AE	10	SER
5	AE	31	THR
5	AE	34	GLU
5	AE	41	ASP
5	AE	57	MET
5	AE	60	PHE
5	AE	61	GLN
5	AE	66	GLU
5	AE	70	SER
5	AE	71	LYS
5	AE	78	LEU
5	AE	81	GLU
5	AE	90	VAL
5	AE	92	THR
5	AE	93	MET
5	AE	106	GLN
5	AE	107	THR
5	AE	123	LEU
5	AE	126	SER
5	AE	127	ILE
5	AE	131	THR
5	AE	141	VAL
5	AE	142	VAL
5	AE	144	ILE
5	AE	148	GLU
5	AE	150	VAL
5	AE	153	HIS
5	AE	166	LYS
5	AE	172	GLU
5	AE	173	SER
5	AE	175	LEU
5	AE	177	ARG
5	AE	178	ILE
5	AE	186	LEU
5	AE	192	ARG
5	AE	196	VAL
5	AE	202	SER

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Mol	Chain	Res	Type
5	AE	207	ARG
5	AE	213	ILE
6	AF	59	GLN
6	AF	77	ASP
6	AF	82	THR
6	AF	93	ILE
6	AF	96	THR
6	AF	99	LEU
6	AF	109	VAL
6	AF	110	ASP
6	AF	118	LEU
6	AF	130	ILE
6	AF	148	VAL
6	AF	149	GLU
6	AF	151	LEU
6	AF	152	ILE
6	AF	154	ASP
7	AG	10	ASN
7	AG	11	ARG
7	AG	15	ARG
7	AG	16	PHE
7	AG	17	ILE
7	AG	19	LYS
7	AG	20	HIS
7	AG	24	VAL
7	AG	29	ASP
7	AG	34	THR
7	AG	35	SER
7	AG	37	CYS
7	AG	38	ILE
7	AG	39	VAL
7	AG	45	LEU
7	AG	54	LEU
7	AG	64	GLN
7	AG	70	VAL
7	AG	76	LYS
7	AG	77	VAL
7	AG	80	VAL
7	AG	81	VAL
7	AG	95	LEU
7	AG	97	LYS
7	AG	105	ILE

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Mol	Chain	Res	Type
7	AG	106	LYS
7	AG	116	THR
7	AG	120	VAL
7	AG	122	LEU
7	AG	126	GLN
7	AG	128	GLN
7	AG	132	VAL
7	AG	139	ILE
7	AG	147	LEU
7	AG	148	LEU
7	AG	149	ILE
7	AG	164	VAL
7	AG	165	ASP
7	AG	169	VAL
7	AG	170	HIS
7	AG	172	ASP
7	AG	173	VAL
7	AG	174	GLU
7	AG	219	ASP
7	AG	221	ASN
7	AG	226	ASP
7	AG	232	THR
7	AG	233	VAL
7	AG	239	THR
7	AG	243	VAL
7	AG	248	THR
7	AG	249	LEU
7	AG	250	ILE
7	AG	251	SER
8	AH	5	LEU
8	AH	7	ASP
8	AH	8	ASP
8	AH	9	ILE
8	AH	13	SER
8	AH	25	ARG
8	AH	30	SER
8	AH	35	GLN
8	AH	42	ILE
8	AH	45	GLU
8	AH	46	LEU
8	AH	54	SER
8	AH	55	LEU

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Mol	Chain	Res	Type
8	AH	57	VAL
8	AH	59	ILE
8	AH	63	LEU
8	AH	80	ARG
8	AH	83	GLN
8	AH	87	ARG
8	AH	94	ASP
8	AH	107	VAL
8	AH	108	SER
8	AH	112	ILE
8	AH	114	VAL
8	AH	121	LEU
8	AH	122	LEU
8	AH	123	MET
8	AH	124	ARG
8	AH	133	ASN
8	AH	137	GLN
8	AH	138	GLU
8	AH	143	LEU
8	AH	145	ARG
9	AI	3	VAL
9	AI	8	ILE
9	AI	11	LEU
9	AI	15	ASP
9	AI	31	SER
9	AI	32	GLN
9	AI	45	LEU
9	AI	47	VAL
9	AI	49	THR
9	AI	66	VAL
9	AI	68	LYS
9	AI	72	LYS
9	AI	73	LYS
9	AI	93	GLU
9	AI	94	MET
9	AI	98	THR
9	AI	99	LEU
9	AI	100	GLN
9	AI	102	ARG
9	AI	106	GLU
9	AI	110	VAL
9	AI	111	PHE

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Mol	Chain	Res	Type
9	AI	120	LYS
9	AI	122	ARG
9	AI	123	THR
10	AJ	1	MET
10	AJ	3	VAL
10	AJ	7	CYS
10	AJ	12	LYS
10	AJ	13	VAL
10	AJ	14	VAL
10	AJ	20	SER
10	AJ	23	ASN
10	AJ	27	GLU
10	AJ	34	THR
10	AJ	38	ARG
10	AJ	44	TYR
10	AJ	48	ARG
10	AJ	58	GLU
10	AJ	66	LEU
10	AJ	67	GLU
10	AJ	68	LYS
11	AK	45	GLU
11	AK	51	THR
11	AK	56	GLU
11	AK	59	THR
11	AK	62	SER
11	AK	63	PHE
11	AK	65	ILE
11	AK	66	VAL
11	AK	68	GLU
11	AK	71	THR
11	AK	72	LEU
11	AK	77	ARG
11	AK	89	CYS
11	AK	93	ILE
11	AK	98	GLU
11	AK	99	ASN
11	AK	103	ILE
11	AK	107	THR
11	AK	111	THR
11	AK	112	THR
11	AK	117	LEU
11	AK	125	MET

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Mol	Chain	Res	Type
11	AK	128	CYS
11	AK	134	LYS
11	AK	136	THR
11	AK	139	ILE
11	AK	142	MET
12	AL	27	LEU
12	AL	28	LYS
12	AL	35	SER
12	AL	36	SER
12	AL	38	LEU
12	AL	49	LYS
12	AL	53	HIS
12	AL	55	ILE
12	AL	57	LEU
12	AL	58	LYS
12	AL	65	VAL
12	AL	66	GLN
12	AL	68	GLU
13	AM	7	VAL
13	AM	9	GLU
13	AM	10	ILE
13	AM	12	ILE
13	AM	18	GLN
13	AM	20	SER
13	AM	25	SER
13	AM	28	LYS
13	AM	36	THR
13	AM	42	LYS
13	AM	44	LYS
13	AM	50	GLU
13	AM	54	HIS
13	AM	56	GLU
13	AM	57	ASN
13	AM	58	GLU
13	AM	65	TYR
13	AM	68	SER
13	AM	70	SER
13	AM	78	VAL
13	AM	85	LYS
13	AM	88	ILE
13	AM	95	VAL
13	AM	97	VAL

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Mol	Chain	Res	Type
13	AM	98	SER
13	AM	100	VAL
13	AM	104	SER
13	AM	109	ARG
14	AN	25	ILE
14	AN	33	LYS
14	AN	37	ASN
14	AN	50	GLN
14	AN	53	VAL
14	AN	56	ILE
14	AN	58	PHE
14	AN	64	ILE
14	AN	70	LEU
14	AN	72	VAL
14	AN	75	GLU
14	AN	78	THR
14	AN	79	THR
14	AN	80	MET
14	AN	81	THR
14	AN	85	HIS
14	AN	89	ILE
14	AN	90	MET
14	AN	98	SER
14	AN	105	SER
14	AN	106	ASN
14	AN	107	MET
14	AN	108	THR
14	AN	114	GLU
14	AN	118	SER
14	AN	123	SER
14	AN	124	THR
14	AN	126	LYS
14	AN	127	ASP
14	AN	138	SER
14	AN	139	VAL
14	AN	141	GLU
14	AN	148	ILE
14	AN	151	SER
14	AN	152	LYS
14	AN	155	VAL
14	AN	157	ARG
14	AN	160	VAL

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Mol	Chain	Res	Type
14	AN	162	LYS
14	AN	163	VAL
14	AN	171	PHE
14	AN	179	ASP
14	AN	180	PHE
7	AO	265	SER
7	AO	266	GLN
7	AO	272	ILE
7	AO	275	ASN
7	AO	276	LYS
7	AO	278	ILE
7	AO	279	VAL
7	AO	280	PHE
7	AO	282	ASP
7	AO	283	GLU
7	AO	285	SER
7	AO	290	GLU
7	AO	292	HIS
7	AO	293	LYS
7	AO	294	GLU
7	AO	295	LEU
7	AO	297	LEU
7	AO	300	VAL
7	AO	303	ASP
7	AO	306	SER
7	AO	308	ILE
7	AO	316	GLU
1	BA	3	ILE
1	BA	9	SER
1	BA	11	ILE
1	BA	12	THR
1	BA	16	PHE
1	BA	18	ILE
1	BA	20	THR
1	BA	22	LYS
1	BA	31	GLN
1	BA	40	ASN
1	BA	41	LEU
1	BA	83	VAL
1	BA	86	TYR
1	BA	89	LEU
1	BA	109	ARG

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Mol	Chain	Res	Type
1	BA	112	SER
1	BA	114	GLU
1	BA	121	LYS
1	BA	130	ILE
1	BA	136	LEU
1	BA	176	THR
1	BA	177	LEU
1	BA	180	GLU
1	BA	186	SER
1	BA	189	VAL
1	BA	198	SER
1	BA	202	THR
1	BA	203	THR
1	BA	205	ARG
1	BA	225	LYS
1	BA	312	SER
1	BA	315	ILE
1	BA	325	ASP
1	BA	326	THR
1	BA	330	LYS
1	BA	333	CYS
1	BA	334	VAL
1	BA	345	LEU
1	BA	346	SER
1	BA	347	ARG
1	BA	349	LEU
1	BA	357	MET
1	BA	365	THR
1	BA	366	ARG
1	BA	371	SER
1	BA	372	LYS
1	BA	373	LEU
1	BA	375	GLU
1	BA	381	SER
1	BA	394	LEU
1	BA	397	ARG
1	BA	403	LEU
1	BA	406	LEU
1	BA	407	GLN
1	BA	409	ASP
1	BA	416	ARG
1	BA	417	ARG

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Mol	Chain	Res	Type
1	BA	423	LEU
1	BA	429	THR
1	BA	450	LYS
1	BA	453	ILE
1	BA	462	LYS
1	BA	464	GLU
1	BA	466	LEU
1	BA	475	ARG
1	BA	476	VAL
1	BA	481	ARG
1	BA	483	VAL
1	BA	484	ILE
1	BA	485	SER
1	BA	500	VAL
1	BA	504	LYS
1	BA	505	LEU
1	BA	506	THR
1	BA	512	THR
1	BA	524	ILE
1	BA	529	LYS
1	BA	534	THR
1	BA	549	MET
1	BA	553	GLN
1	BA	555	LYS
1	BA	559	ASN
1	BA	562	LEU
1	BA	565	SER
1	BA	566	SER
1	BA	568	VAL
1	BA	574	ASN
1	BA	575	LYS
1	BA	576	LYS
1	BA	577	VAL
1	BA	581	ILE
1	BA	582	LYS
1	BA	583	ASN
1	BA	590	ASN
1	BA	594	THR
1	BA	595	LEU
1	BA	596	HIS
1	BA	599	SER
1	BA	611	GLU

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Mol	Chain	Res	Type
1	BA	613	THR
1	BA	621	THR
1	BA	627	ASP
1	BA	648	LEU
1	BA	653	THR
1	BA	659	THR
1	BA	666	VAL
1	BA	670	ILE
1	BA	675	SER
1	BA	678	VAL
1	BA	679	TRP
1	BA	681	THR
1	BA	684	ASP
1	BA	688	THR
1	BA	689	ARG
1	BA	700	ILE
1	BA	703	GLU
1	BA	706	HIS
1	BA	709	ARG
1	BA	713	VAL
1	BA	714	THR
1	BA	715	LEU
1	BA	718	THR
1	BA	719	ILE
1	BA	723	TYR
1	BA	727	THR
1	BA	732	ILE
1	BA	736	LEU
1	BA	743	ASP
1	BA	744	MET
1	BA	748	ASN
1	BA	750	ILE
1	BA	769	VAL
1	BA	772	LYS
1	BA	773	ASP
1	BA	783	LYS
1	BA	789	SER
1	BA	804	GLU
1	BA	805	VAL
1	BA	808	LYS
1	BA	809	VAL
1	BA	812	VAL

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Mol	Chain	Res	Type
1	BA	816	LEU
1	BA	821	ILE
1	BA	822	THR
1	BA	830	MET
1	BA	831	ASP
1	BA	833	LEU
1	BA	836	THR
1	BA	856	GLU
1	BA	861	VAL
1	BA	862	THR
1	BA	876	LEU
1	BA	878	ARG
1	BA	886	ASN
1	BA	889	SER
1	BA	892	LEU
1	BA	896	THR
1	BA	907	VAL
1	BA	917	MET
1	BA	922	CYS
1	BA	924	SER
1	BA	928	MET
1	BA	945	CYS
1	BA	952	LEU
1	BA	955	ARG
1	BA	956	ARG
1	BA	957	VAL
1	BA	959	VAL
1	BA	961	VAL
1	BA	966	LEU
1	BA	973	GLU
1	BA	983	LYS
1	BA	985	ARG
1	BA	987	TYR
1	BA	998	HIS
1	BA	1003	ARG
1	BA	1004	GLU
1	BA	1013	THR
1	BA	1015	ARG
1	BA	1019	LEU
1	BA	1021	ARG
1	BA	1023	LEU
1	BA	1026	GLN

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Mol	Chain	Res	Type
1	BA	1030	VAL
1	BA	1033	SER
1	BA	1045	LEU
1	BA	1049	MET
1	BA	1053	ASP
1	BA	1057	ILE
1	BA	1059	LYS
1	BA	1072	ASN
1	BA	1076	LEU
1	BA	1083	SER
1	BA	1085	LEU
1	BA	1086	ILE
1	BA	1087	GLU
1	BA	1096	LYS
1	BA	1102	LEU
1	BA	1104	TYR
1	BA	1111	GLU
1	BA	1117	SER
1	BA	1118	VAL
1	BA	1123	VAL
1	BA	1135	SER
1	BA	1136	VAL
1	BA	1137	SER
1	BA	1143	LYS
1	BA	1146	SER
1	BA	1158	SER
1	BA	1159	ASP
1	BA	1169	LEU
1	BA	1173	LYS
1	BA	1175	MET
1	BA	1188	ILE
1	BA	1192	SER
1	BA	1199	GLN
1	BA	1202	LEU
1	BA	1214	ASN
1	BA	1217	LEU
1	BA	1222	LEU
1	BA	1226	VAL
1	BA	1227	MET
1	BA	1235	THR
1	BA	1239	THR
1	BA	1242	ILE

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Mol	Chain	Res	Type
1	BA	1243	TRP
1	BA	1245	ASP
1	BA	1247	SER
1	BA	1250	GLN
1	BA	1252	ASP
1	BA	1253	THR
1	BA	1262	LEU
1	BA	1264	SER
1	BA	1267	ILE
1	BA	1268	ASP
1	BA	1271	ILE
1	BA	1272	VAL
1	BA	1273	THR
1	BA	1275	THR
1	BA	1288	ARG
1	BA	1289	SER
1	BA	1292	ILE
1	BA	1294	MET
1	BA	1298	ASP
1	BA	1301	GLU
1	BA	1303	SER
1	BA	1304	GLU
1	BA	1305	GLU
1	BA	1310	LYS
1	BA	1314	GLN
1	BA	1318	SER
1	BA	1324	LEU
1	BA	1325	LEU
1	BA	1343	ASP
1	BA	1344	ILE
1	BA	1437	ASN
1	BA	1439	MET
1	BA	1440	ASN
1	BA	1441	LYS
1	BA	1442	VAL
1	BA	1444	ARG
1	BA	1450	ILE
1	BA	1452	SER
1	BA	1453	HIS
1	BA	1457	ILE
1	BA	1458	THR
1	BA	1459	LYS

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Mol	Chain	Res	Type
1	BA	1465	GLU
1	BA	1466	SER
1	BA	1468	LYS
1	BA	1474	LEU
1	BA	1476	LEU
1	BA	1481	GLU
1	BA	1485	MET
1	BA	1488	ILE
1	BA	1497	ILE
1	BA	1501	ILE
1	BA	1506	ARG
1	BA	1513	GLU
1	BA	1514	ASN
1	BA	1518	VAL
1	BA	1519	LEU
1	BA	1520	VAL
1	BA	1529	MET
1	BA	1536	ILE
1	BA	1542	THR
1	BA	1546	VAL
1	BA	1559	ARG
1	BA	1561	THR
1	BA	1562	ILE
1	BA	1566	ILE
1	BA	1568	ASN
1	BA	1582	LEU
1	BA	1583	ASP
1	BA	1584	LEU
1	BA	1585	ILE
1	BA	1590	THR
1	BA	1603	MET
1	BA	1607	THR
1	BA	1609	SER
1	BA	1613	MET
1	BA	1619	CYS
1	BA	1620	GLN
1	BA	1623	THR
1	BA	1628	ASP
1	BA	1629	ASN
1	BA	1633	GLN
1	BA	1635	ASP
1	BA	1638	SER

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Mol	Chain	Res	Type
1	BA	1647	ASN
1	BA	1649	VAL
1	BA	1656	VAL
2	BB	19	LEU
2	BB	21	ARG
2	BB	22	GLU
2	BB	26	ILE
2	BB	33	SER
2	BB	39	GLN
2	BB	53	THR
2	BB	57	ASP
2	BB	65	VAL
2	BB	66	LYS
2	BB	68	ILE
2	BB	73	ILE
2	BB	74	PHE
2	BB	90	TYR
2	BB	91	LEU
2	BB	93	ASN
2	BB	96	SER
2	BB	101	GLN
2	BB	103	SER
2	BB	109	SER
2	BB	110	ASN
2	BB	117	VAL
2	BB	120	LYS
2	BB	124	SER
2	BB	130	LEU
2	BB	136	LYS
2	BB	137	LEU
2	BB	150	GLU
2	BB	151	ASN
2	BB	164	MET
2	BB	170	CYS
2	BB	181	VAL
2	BB	190	ILE
2	BB	201	LYS
2	BB	202	LEU
2	BB	203	ILE
2	BB	204	ARG
2	BB	206	LEU
2	BB	207	ILE

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Mol	Chain	Res	Type
2	BB	212	ASN
2	BB	217	ILE
2	BB	228	SER
2	BB	231	HIS
2	BB	234	ILE
2	BB	237	ARG
2	BB	238	SER
2	BB	244	THR
2	BB	245	SER
2	BB	247	THR
2	BB	276	ILE
2	BB	295	ASN
2	BB	306	LEU
2	BB	309	LEU
2	BB	315	LYS
2	BB	316	ARG
2	BB	323	ARG
2	BB	328	GLN
2	BB	336	VAL
2	BB	343	ASP
2	BB	347	LEU
2	BB	351	GLN
2	BB	357	ILE
2	BB	368	GLN
2	BB	377	MET
2	BB	381	LEU
2	BB	397	THR
2	BB	398	GLN
2	BB	403	LEU
2	BB	404	LEU
2	BB	412	ILE
2	BB	413	LEU
2	BB	417	ILE
2	BB	422	GLN
2	BB	425	ILE
2	BB	432	ILE
2	BB	434	ARG
2	BB	443	LYS
2	BB	452	ARG
2	BB	453	VAL
2	BB	454	ASN
2	BB	460	LYS

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Mol	Chain	Res	Type
2	BB	472	SER
2	BB	474	SER
2	BB	476	LEU
2	BB	477	ASP
2	BB	479	GLN
2	BB	491	ILE
2	BB	497	ILE
2	BB	498	SER
2	BB	505	ARG
2	BB	507	SER
2	BB	519	LYS
2	BB	520	LEU
2	BB	521	LEU
2	BB	523	GLU
2	BB	537	SER
2	BB	541	LEU
2	BB	553	THR
2	BB	554	GLN
2	BB	561	ILE
2	BB	577	PHE
2	BB	583	LEU
2	BB	585	CYS
2	BB	593	ILE
2	BB	604	ILE
2	BB	616	LYS
2	BB	617	THR
2	BB	622	ILE
2	BB	624	LEU
2	BB	626	ILE
2	BB	636	GLN
2	BB	642	LEU
2	BB	653	VAL
2	BB	654	ARG
2	BB	658	LEU
2	BB	660	LYS
2	BB	661	GLU
2	BB	663	ILE
2	BB	670	VAL
2	BB	674	ILE
2	BB	683	ASN
2	BB	687	THR
2	BB	690	GLU

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Mol	Chain	Res	Type
2	BB	696	ILE
2	BB	698	SER
2	BB	699	ILE
2	BB	703	LEU
2	BB	711	GLN
2	BB	714	ARG
2	BB	716	MET
2	BB	724	GLN
2	BB	725	THR
2	BB	733	LEU
2	BB	737	SER
2	BB	738	ASP
2	BB	749	THR
2	BB	751	ILE
2	BB	752	VAL
2	BB	756	LEU
2	BB	762	MET
2	BB	772	VAL
2	BB	773	VAL
2	BB	777	SER
2	BB	779	THR
2	BB	782	ASP
2	BB	783	MET
2	BB	785	ASP
2	BB	789	ILE
2	BB	802	THR
2	BB	806	THR
2	BB	808	LYS
2	BB	809	VAL
2	BB	814	ASN
2	BB	823	GLN
2	BB	824	HIS
2	BB	829	ASN
2	BB	830	ASP
2	BB	833	PRO
2	BB	834	LYS
2	BB	835	GLU
2	BB	837	LEU
2	BB	838	GLU
2	BB	840	LEU
2	BB	842	GLU
2	BB	843	ASP

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Mol	Chain	Res	Type
2	BB	845	LEU
2	BB	848	ILE
2	BB	852	VAL
2	BB	858	ILE
2	BB	865	THR
2	BB	870	LYS
2	BB	871	ILE
2	BB	873	THR
2	BB	876	SER
2	BB	882	ILE
2	BB	883	GLU
2	BB	887	LEU
2	BB	888	ILE
2	BB	891	GLU
2	BB	895	PHE
2	BB	896	GLN
2	BB	897	GLU
2	BB	898	LEU
2	BB	903	ILE
2	BB	904	LYS
2	BB	905	TYR
2	BB	907	ILE
2	BB	910	THR
2	BB	933	THR
2	BB	944	GLN
2	BB	947	ILE
2	BB	949	ILE
2	BB	958	MET
2	BB	960	ILE
2	BB	962	MET
2	BB	965	GLU
2	BB	967	LEU
2	BB	977	ILE
2	BB	985	ILE
2	BB	988	GLU
2	BB	991	THR
2	BB	999	GLN
2	BB	1015	SER
2	BB	1018	THR
2	BB	1026	ILE
2	BB	1028	VAL
2	BB	1030	VAL

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Mol	Chain	Res	Type
2	BB	1031	VAL
2	BB	1033	TYR
2	BB	1034	GLN
2	BB	1036	LEU
2	BB	1039	MET
2	BB	1040	VAL
2	BB	1044	PHE
2	BB	1045	GLN
2	BB	1047	ARG
2	BB	1058	GLN
2	BB	1070	ARG
2	BB	1075	GLU
2	BB	1077	ASP
2	BB	1085	SER
2	BB	1091	ARG
2	BB	1092	LEU
2	BB	1093	LEU
2	BB	1094	ASN
2	BB	1102	SER
2	BB	1103	VAL
2	BB	1109	SER
2	BB	1110	ILE
2	BB	1111	LEU
2	BB	1112	THR
2	BB	1119	ARG
2	BB	1120	ILE
2	BB	1127	CYS
2	BB	1133	MET
2	BB	1136	GLU
2	BB	1140	LYS
2	BB	1142	LEU
2	BB	1153	ILE
2	BB	1156	SER
2	BB	1157	GLN
2	BB	1163	GLN
2	BB	1168	VAL
2	BB	1173	THR
2	BB	1174	THR
2	BB	1181	VAL
2	BB	1185	LEU
2	BB	1189	LEU
2	BB	1190	SER

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Mol	Chain	Res	Type
2	BB	1198	TYR
2	BB	1200	VAL
2	BB	1201	GLU
3	BC	32	ASN
3	BC	45	SER
3	BC	48	ASP
3	BC	51	GLU
3	BC	57	ILE
3	BC	59	ILE
3	BC	61	THR
3	BC	68	ARG
3	BC	69	ARG
3	BC	71	MET
3	BC	72	ILE
3	BC	78	VAL
3	BC	82	TYR
3	BC	86	PHE
3	BC	97	LEU
3	BC	101	ILE
3	BC	118	SER
3	BC	122	ASP
3	BC	128	ASP
3	BC	129	GLU
3	BC	131	THR
3	BC	132	ILE
3	BC	136	LEU
3	BC	139	LYS
3	BC	151	THR
3	BC	168	LYS
3	BC	177	THR
3	BC	185	VAL
3	BC	193	LEU
3	BC	196	LEU
3	BC	202	ILE
3	BC	208	CYS
3	BC	209	ILE
3	BC	210	LEU
3	BC	222	VAL
3	BC	224	THR
3	BC	226	SER
3	BC	235	ILE
3	BC	237	GLN

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Mol	Chain	Res	Type
3	BC	262	SER
3	BC	263	ASP
3	BC	264	GLU
3	BC	267	VAL
3	BC	272	LYS
3	BC	274	THR
3	BC	275	VAL
3	BC	277	ARG
3	BC	279	VAL
3	BC	287	ASP
3	BC	289	VAL
3	BC	291	LEU
3	BC	294	VAL
3	BC	303	GLU
3	BC	313	ILE
3	BC	324	LYS
3	BC	334	THR
4	BD	12	THR
4	BD	14	THR
4	BD	20	VAL
4	BD	80	THR
4	BD	82	LEU
4	BD	87	SER
4	BD	88	GLN
4	BD	94	ARG
4	BD	99	LEU
5	BE	4	GLU
5	BE	6	GLU
5	BE	8	ASN
5	BE	9	ILE
5	BE	10	SER
5	BE	31	THR
5	BE	41	ASP
5	BE	57	MET
5	BE	60	PHE
5	BE	61	GLN
5	BE	66	GLU
5	BE	70	SER
5	BE	71	LYS
5	BE	78	LEU
5	BE	81	GLU
5	BE	90	VAL

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Mol	Chain	Res	Type
5	BE	92	THR
5	BE	93	MET
5	BE	106	GLN
5	BE	107	THR
5	BE	123	LEU
5	BE	126	SER
5	BE	127	ILE
5	BE	131	THR
5	BE	141	VAL
5	BE	142	VAL
5	BE	144	ILE
5	BE	148	GLU
5	BE	150	VAL
5	BE	153	HIS
5	BE	166	LYS
5	BE	172	GLU
5	BE	175	LEU
5	BE	177	ARG
5	BE	178	ILE
5	BE	186	LEU
5	BE	192	ARG
5	BE	196	VAL
5	BE	198	ILE
5	BE	202	SER
5	BE	207	ARG
5	BE	213	ILE
6	BF	59	GLN
6	BF	77	ASP
6	BF	82	THR
6	BF	93	ILE
6	BF	96	THR
6	BF	99	LEU
6	BF	109	VAL
6	BF	110	ASP
6	BF	118	LEU
6	BF	130	ILE
6	BF	148	VAL
6	BF	149	GLU
6	BF	151	LEU
6	BF	152	ILE
6	BF	154	ASP
7	BG	15	ARG

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Mol	Chain	Res	Type
7	BG	16	PHE
7	BG	17	ILE
7	BG	19	LYS
7	BG	20	HIS
7	BG	24	VAL
7	BG	29	ASP
7	BG	34	THR
7	BG	35	SER
7	BG	37	CYS
7	BG	38	ILE
7	BG	39	VAL
7	BG	43	ILE
7	BG	45	LEU
7	BG	54	LEU
7	BG	64	GLN
7	BG	70	VAL
7	BG	76	LYS
7	BG	77	VAL
7	BG	80	VAL
7	BG	81	VAL
7	BG	95	LEU
7	BG	97	LYS
7	BG	105	ILE
7	BG	106	LYS
7	BG	116	THR
7	BG	120	VAL
7	BG	122	LEU
7	BG	126	GLN
7	BG	128	GLN
7	BG	132	VAL
7	BG	139	ILE
7	BG	147	LEU
7	BG	148	LEU
7	BG	149	ILE
7	BG	164	VAL
7	BG	165	ASP
7	BG	169	VAL
7	BG	170	HIS
7	BG	219	ASP
7	BG	221	ASN
7	BG	226	ASP
7	BG	232	THR

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Mol	Chain	Res	Type
7	BG	233	VAL
7	BG	239	THR
7	BG	243	VAL
7	BG	248	THR
7	BG	249	LEU
7	BG	250	ILE
7	BG	251	SER
8	BH	5	LEU
8	BH	7	ASP
8	BH	8	ASP
8	BH	9	ILE
8	BH	13	SER
8	BH	25	ARG
8	BH	30	SER
8	BH	35	GLN
8	BH	42	ILE
8	BH	45	GLU
8	BH	46	LEU
8	BH	54	SER
8	BH	55	LEU
8	BH	57	VAL
8	BH	59	ILE
8	BH	63	LEU
8	BH	80	ARG
8	BH	83	GLN
8	BH	87	ARG
8	BH	94	ASP
8	BH	107	VAL
8	BH	108	SER
8	BH	112	ILE
8	BH	114	VAL
8	BH	121	LEU
8	BH	122	LEU
8	BH	123	MET
8	BH	124	ARG
8	BH	133	ASN
8	BH	137	GLN
8	BH	138	GLU
8	BH	143	LEU
8	BH	145	ARG
9	BI	3	VAL
9	BI	8	ILE

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Mol	Chain	Res	Type
9	BI	11	LEU
9	BI	15	ASP
9	BI	31	SER
9	BI	32	GLN
9	BI	42	PHE
9	BI	45	LEU
9	BI	47	VAL
9	BI	49	THR
9	BI	66	VAL
9	BI	68	LYS
9	BI	73	LYS
9	BI	89	CYS
9	BI	93	GLU
9	BI	94	MET
9	BI	113	THR
10	BJ	1	MET
10	BJ	3	VAL
10	BJ	12	LYS
10	BJ	13	VAL
10	BJ	14	VAL
10	BJ	20	SER
10	BJ	23	ASN
10	BJ	27	GLU
10	BJ	34	THR
10	BJ	38	ARG
10	BJ	48	ARG
10	BJ	58	GLU
10	BJ	66	LEU
10	BJ	67	GLU
10	BJ	68	LYS
11	BK	45	GLU
11	BK	51	THR
11	BK	56	GLU
11	BK	59	THR
11	BK	62	SER
11	BK	63	PHE
11	BK	65	ILE
11	BK	66	VAL
11	BK	68	GLU
11	BK	71	THR
11	BK	72	LEU
11	BK	77	ARG

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Mol	Chain	Res	Type
11	BK	89	CYS
11	BK	93	ILE
11	BK	98	GLU
11	BK	99	ASN
11	BK	103	ILE
11	BK	107	THR
11	BK	111	THR
11	BK	112	THR
11	BK	117	LEU
11	BK	125	MET
11	BK	128	CYS
11	BK	134	LYS
11	BK	136	THR
11	BK	139	ILE
11	BK	142	MET
12	BL	27	LEU
12	BL	28	LYS
12	BL	35	SER
12	BL	36	SER
12	BL	38	LEU
12	BL	49	LYS
12	BL	53	HIS
12	BL	55	ILE
12	BL	57	LEU
12	BL	58	LYS
12	BL	65	VAL
12	BL	66	GLN
12	BL	68	GLU
13	BM	7	VAL
13	BM	9	GLU
13	BM	10	ILE
13	BM	12	ILE
13	BM	18	GLN
13	BM	20	SER
13	BM	25	SER
13	BM	28	LYS
13	BM	36	THR
13	BM	42	LYS
13	BM	44	LYS
13	BM	54	HIS
13	BM	56	GLU
13	BM	57	ASN

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Mol	Chain	Res	Type
13	BM	58	GLU
13	BM	60	LEU
13	BM	65	TYR
13	BM	68	SER
13	BM	70	SER
13	BM	78	VAL
13	BM	80	LEU
13	BM	85	LYS
13	BM	88	ILE
13	BM	95	VAL
13	BM	97	VAL
13	BM	98	SER
13	BM	100	VAL
13	BM	104	SER
13	BM	109	ARG
14	BN	25	ILE
14	BN	33	LYS
14	BN	37	ASN
14	BN	50	GLN
14	BN	53	VAL
14	BN	56	ILE
14	BN	58	PHE
14	BN	64	ILE
14	BN	70	LEU
14	BN	72	VAL
14	BN	75	GLU
14	BN	78	THR
14	BN	79	THR
14	BN	80	MET
14	BN	81	THR
14	BN	85	HIS
14	BN	89	ILE
14	BN	90	MET
14	BN	98	SER
14	BN	106	ASN
14	BN	107	MET
14	BN	108	THR
14	BN	114	GLU
14	BN	118	SER
14	BN	123	SER
14	BN	124	THR
14	BN	126	LYS

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Mol	Chain	Res	Type
14	BN	127	ASP
14	BN	138	SER
14	BN	139	VAL
14	BN	141	GLU
14	BN	148	ILE
14	BN	151	SER
14	BN	152	LYS
14	BN	155	VAL
14	BN	157	ARG
14	BN	160	VAL
14	BN	162	LYS
14	BN	163	VAL
14	BN	171	PHE
7	BO	268	GLU
7	BO	272	ILE
7	BO	273	VAL
7	BO	274	SER
7	BO	275	ASN
7	BO	280	PHE
7	BO	284	VAL
7	BO	294	GLU
7	BO	295	LEU
7	BO	296	ASP
7	BO	297	LEU
7	BO	301	LYS
7	BO	302	GLU
7	BO	306	SER
7	BO	307	GLU
7	BO	311	GLU
7	BO	314	THR
1	CA	3	ILE
1	CA	9	SER
1	CA	11	ILE
1	CA	12	THR
1	CA	16	PHE
1	CA	18	ILE
1	CA	20	THR
1	CA	22	LYS
1	CA	31	GLN
1	CA	40	ASN
1	CA	41	LEU
1	CA	62	CYS

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Mol	Chain	Res	Type
1	CA	83	VAL
1	CA	86	TYR
1	CA	89	LEU
1	CA	109	ARG
1	CA	112	SER
1	CA	114	GLU
1	CA	121	LYS
1	CA	130	ILE
1	CA	136	LEU
1	CA	176	THR
1	CA	177	LEU
1	CA	179	ASN
1	CA	180	GLU
1	CA	186	SER
1	CA	189	VAL
1	CA	198	SER
1	CA	199	ASP
1	CA	202	THR
1	CA	203	THR
1	CA	205	ARG
1	CA	225	LYS
1	CA	312	SER
1	CA	315	ILE
1	CA	325	ASP
1	CA	326	THR
1	CA	330	LYS
1	CA	333	CYS
1	CA	345	LEU
1	CA	346	SER
1	CA	347	ARG
1	CA	349	LEU
1	CA	357	MET
1	CA	365	THR
1	CA	366	ARG
1	CA	371	SER
1	CA	372	LYS
1	CA	373	LEU
1	CA	375	GLU
1	CA	381	SER
1	CA	394	LEU
1	CA	397	ARG
1	CA	403	LEU

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Mol	Chain	Res	Type
1	CA	406	LEU
1	CA	407	GLN
1	CA	408	LYS
1	CA	409	ASP
1	CA	417	ARG
1	CA	423	LEU
1	CA	429	THR
1	CA	453	ILE
1	CA	462	LYS
1	CA	464	GLU
1	CA	466	LEU
1	CA	475	ARG
1	CA	476	VAL
1	CA	481	ARG
1	CA	483	VAL
1	CA	484	ILE
1	CA	485	SER
1	CA	500	VAL
1	CA	504	LYS
1	CA	505	LEU
1	CA	506	THR
1	CA	509	GLU
1	CA	512	THR
1	CA	524	ILE
1	CA	529	LYS
1	CA	534	THR
1	CA	549	MET
1	CA	553	GLN
1	CA	555	LYS
1	CA	562	LEU
1	CA	565	SER
1	CA	566	SER
1	CA	568	VAL
1	CA	574	ASN
1	CA	575	LYS
1	CA	576	LYS
1	CA	577	VAL
1	CA	581	ILE
1	CA	582	LYS
1	CA	583	ASN
1	CA	590	ASN
1	CA	594	THR

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Mol	Chain	Res	Type
1	CA	595	LEU
1	CA	596	HIS
1	CA	599	SER
1	CA	611	GLU
1	CA	613	THR
1	CA	621	THR
1	CA	627	ASP
1	CA	648	LEU
1	CA	653	THR
1	CA	659	THR
1	CA	666	VAL
1	CA	670	ILE
1	CA	675	SER
1	CA	678	VAL
1	CA	679	TRP
1	CA	681	THR
1	CA	684	ASP
1	CA	688	THR
1	CA	689	ARG
1	CA	700	ILE
1	CA	703	GLU
1	CA	706	HIS
1	CA	709	ARG
1	CA	714	THR
1	CA	715	LEU
1	CA	718	THR
1	CA	719	ILE
1	CA	723	TYR
1	CA	727	THR
1	CA	732	ILE
1	CA	736	LEU
1	CA	743	ASP
1	CA	744	MET
1	CA	748	ASN
1	CA	750	ILE
1	CA	755	ILE
1	CA	769	VAL
1	CA	772	LYS
1	CA	773	ASP
1	CA	780	ILE
1	CA	783	LYS
1	CA	789	SER

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Mol	Chain	Res	Type
1	CA	804	GLU
1	CA	805	VAL
1	CA	808	LYS
1	CA	809	VAL
1	CA	810	LEU
1	CA	812	VAL
1	CA	816	LEU
1	CA	821	ILE
1	CA	822	THR
1	CA	830	MET
1	CA	831	ASP
1	CA	833	LEU
1	CA	836	THR
1	CA	856	GLU
1	CA	861	VAL
1	CA	862	THR
1	CA	876	LEU
1	CA	878	ARG
1	CA	882	ILE
1	CA	886	ASN
1	CA	889	SER
1	CA	892	LEU
1	CA	896	THR
1	CA	905	SER
1	CA	907	VAL
1	CA	917	MET
1	CA	922	CYS
1	CA	924	SER
1	CA	925	MET
1	CA	928	MET
1	CA	945	CYS
1	CA	952	LEU
1	CA	955	ARG
1	CA	956	ARG
1	CA	957	VAL
1	CA	959	VAL
1	CA	961	VAL
1	CA	964	LYS
1	CA	966	LEU
1	CA	973	GLU
1	CA	983	LYS
1	CA	985	ARG

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Mol	Chain	Res	Type
1	CA	987	TYR
1	CA	998	HIS
1	CA	1003	ARG
1	CA	1004	GLU
1	CA	1013	THR
1	CA	1015	ARG
1	CA	1019	LEU
1	CA	1021	ARG
1	CA	1023	LEU
1	CA	1026	GLN
1	CA	1030	VAL
1	CA	1033	SER
1	CA	1045	LEU
1	CA	1049	MET
1	CA	1053	ASP
1	CA	1057	ILE
1	CA	1059	LYS
1	CA	1072	ASN
1	CA	1076	LEU
1	CA	1083	SER
1	CA	1085	LEU
1	CA	1086	ILE
1	CA	1087	GLU
1	CA	1096	LYS
1	CA	1102	LEU
1	CA	1104	TYR
1	CA	1111	GLU
1	CA	1117	SER
1	CA	1118	VAL
1	CA	1123	VAL
1	CA	1135	SER
1	CA	1136	VAL
1	CA	1137	SER
1	CA	1143	LYS
1	CA	1146	SER
1	CA	1158	SER
1	CA	1159	ASP
1	CA	1169	LEU
1	CA	1172	LEU
1	CA	1173	LYS
1	CA	1175	MET
1	CA	1188	ILE

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Mol	Chain	Res	Type
1	CA	1199	GLN
1	CA	1202	LEU
1	CA	1214	ASN
1	CA	1217	LEU
1	CA	1222	LEU
1	CA	1226	VAL
1	CA	1227	MET
1	CA	1235	THR
1	CA	1239	THR
1	CA	1242	ILE
1	CA	1243	TRP
1	CA	1245	ASP
1	CA	1247	SER
1	CA	1250	GLN
1	CA	1252	ASP
1	CA	1253	THR
1	CA	1262	LEU
1	CA	1264	SER
1	CA	1267	ILE
1	CA	1268	ASP
1	CA	1271	ILE
1	CA	1272	VAL
1	CA	1273	THR
1	CA	1275	THR
1	CA	1276	THR
1	CA	1288	ARG
1	CA	1289	SER
1	CA	1292	ILE
1	CA	1294	MET
1	CA	1298	ASP
1	CA	1301	GLU
1	CA	1303	SER
1	CA	1304	GLU
1	CA	1305	GLU
1	CA	1310	LYS
1	CA	1314	GLN
1	CA	1318	SER
1	CA	1324	LEU
1	CA	1325	LEU
1	CA	1343	ASP
1	CA	1344	ILE
1	CA	1437	ASN

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Mol	Chain	Res	Type
1	CA	1439	MET
1	CA	1440	ASN
1	CA	1441	LYS
1	CA	1442	VAL
1	CA	1444	ARG
1	CA	1452	SER
1	CA	1453	HIS
1	CA	1457	ILE
1	CA	1458	THR
1	CA	1459	LYS
1	CA	1465	GLU
1	CA	1466	SER
1	CA	1468	LYS
1	CA	1472	PHE
1	CA	1474	LEU
1	CA	1476	LEU
1	CA	1481	GLU
1	CA	1485	MET
1	CA	1497	ILE
1	CA	1501	ILE
1	CA	1506	ARG
1	CA	1513	GLU
1	CA	1514	ASN
1	CA	1518	VAL
1	CA	1519	LEU
1	CA	1520	VAL
1	CA	1529	MET
1	CA	1536	ILE
1	CA	1542	THR
1	CA	1546	VAL
1	CA	1559	ARG
1	CA	1561	THR
1	CA	1562	ILE
1	CA	1566	ILE
1	CA	1568	ASN
1	CA	1582	LEU
1	CA	1583	ASP
1	CA	1584	LEU
1	CA	1585	ILE
1	CA	1590	THR
1	CA	1603	MET
1	CA	1607	THR

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Mol	Chain	Res	Type
1	CA	1609	SER
1	CA	1613	MET
1	CA	1619	CYS
1	CA	1620	GLN
1	CA	1622	LEU
1	CA	1628	ASP
1	CA	1629	ASN
1	CA	1633	GLN
1	CA	1635	ASP
1	CA	1638	SER
1	CA	1647	ASN
1	CA	1649	VAL
2	CB	19	LEU
2	CB	21	ARG
2	CB	22	GLU
2	CB	26	ILE
2	CB	33	SER
2	CB	37	LEU
2	CB	39	GLN
2	CB	53	THR
2	CB	57	ASP
2	CB	65	VAL
2	CB	66	LYS
2	CB	68	ILE
2	CB	73	ILE
2	CB	74	PHE
2	CB	75	ASP
2	CB	77	LYS
2	CB	90	TYR
2	CB	91	LEU
2	CB	93	ASN
2	CB	96	SER
2	CB	98	SER
2	CB	101	GLN
2	CB	103	SER
2	CB	109	SER
2	CB	110	ASN
2	CB	117	VAL
2	CB	120	LYS
2	CB	124	SER
2	CB	130	LEU
2	CB	137	LEU

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Mol	Chain	Res	Type
2	CB	150	GLU
2	CB	151	ASN
2	CB	164	MET
2	CB	170	CYS
2	CB	181	VAL
2	CB	190	ILE
2	CB	201	LYS
2	CB	202	LEU
2	CB	203	ILE
2	CB	204	ARG
2	CB	206	LEU
2	CB	207	ILE
2	CB	212	ASN
2	CB	217	ILE
2	CB	228	SER
2	CB	231	HIS
2	CB	237	ARG
2	CB	238	SER
2	CB	244	THR
2	CB	245	SER
2	CB	247	THR
2	CB	257	GLN
2	CB	276	ILE
2	CB	295	ASN
2	CB	306	LEU
2	CB	309	LEU
2	CB	315	LYS
2	CB	316	ARG
2	CB	328	GLN
2	CB	336	VAL
2	CB	343	ASP
2	CB	347	LEU
2	CB	351	GLN
2	CB	357	ILE
2	CB	368	GLN
2	CB	377	MET
2	CB	381	LEU
2	CB	397	THR
2	CB	398	GLN
2	CB	403	LEU
2	CB	404	LEU
2	CB	412	ILE

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Mol	Chain	Res	Type
2	CB	413	LEU
2	CB	417	ILE
2	CB	422	GLN
2	CB	425	ILE
2	CB	432	ILE
2	CB	434	ARG
2	CB	443	LYS
2	CB	452	ARG
2	CB	453	VAL
2	CB	454	ASN
2	CB	460	LYS
2	CB	462	GLN
2	CB	470	LEU
2	CB	472	SER
2	CB	474	SER
2	CB	476	LEU
2	CB	477	ASP
2	CB	479	GLN
2	CB	491	ILE
2	CB	497	ILE
2	CB	498	SER
2	CB	505	ARG
2	CB	507	SER
2	CB	519	LYS
2	CB	520	LEU
2	CB	521	LEU
2	CB	523	GLU
2	CB	537	SER
2	CB	541	LEU
2	CB	554	GLN
2	CB	561	ILE
2	CB	574	SER
2	CB	577	PHE
2	CB	583	LEU
2	CB	585	CYS
2	CB	593	ILE
2	CB	604	ILE
2	CB	616	LYS
2	CB	617	THR
2	CB	622	ILE
2	CB	624	LEU
2	CB	626	ILE

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Mol	Chain	Res	Type
2	CB	636	GLN
2	CB	642	LEU
2	CB	653	VAL
2	CB	654	ARG
2	CB	658	LEU
2	CB	660	LYS
2	CB	661	GLU
2	CB	663	ILE
2	CB	670	VAL
2	CB	674	ILE
2	CB	683	ASN
2	CB	687	THR
2	CB	690	GLU
2	CB	696	ILE
2	CB	698	SER
2	CB	699	ILE
2	CB	703	LEU
2	CB	711	GLN
2	CB	714	ARG
2	CB	716	MET
2	CB	724	GLN
2	CB	725	THR
2	CB	731	VAL
2	CB	733	LEU
2	CB	737	SER
2	CB	738	ASP
2	CB	749	THR
2	CB	751	ILE
2	CB	752	VAL
2	CB	756	LEU
2	CB	762	MET
2	CB	772	VAL
2	CB	773	VAL
2	CB	777	SER
2	CB	779	THR
2	CB	782	ASP
2	CB	783	MET
2	CB	785	ASP
2	CB	802	THR
2	CB	806	THR
2	CB	808	LYS
2	CB	809	VAL

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Mol	Chain	Res	Type
2	CB	811	LEU
2	CB	814	ASN
2	CB	823	GLN
2	CB	829	ASN
2	CB	830	ASP
2	CB	833	PRO
2	CB	835	GLU
2	CB	837	LEU
2	CB	838	GLU
2	CB	840	LEU
2	CB	842	GLU
2	CB	843	ASP
2	CB	845	LEU
2	CB	848	ILE
2	CB	852	VAL
2	CB	858	ILE
2	CB	865	THR
2	CB	870	LYS
2	CB	871	ILE
2	CB	872	LYS
2	CB	873	THR
2	CB	876	SER
2	CB	882	ILE
2	CB	883	GLU
2	CB	887	LEU
2	CB	888	ILE
2	CB	891	GLU
2	CB	892	SER
2	CB	895	PHE
2	CB	896	GLN
2	CB	897	GLU
2	CB	898	LEU
2	CB	903	ILE
2	CB	904	LYS
2	CB	905	TYR
2	CB	907	ILE
2	CB	910	THR
2	CB	919	SER
2	CB	927	CYS
2	CB	933	THR
2	CB	943	ILE
2	CB	944	GLN

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Mol	Chain	Res	Type
2	CB	947	ILE
2	CB	949	ILE
2	CB	958	MET
2	CB	960	ILE
2	CB	962	MET
2	CB	965	GLU
2	CB	967	LEU
2	CB	977	ILE
2	CB	985	ILE
2	CB	988	GLU
2	CB	991	THR
2	CB	999	GLN
2	CB	1015	SER
2	CB	1018	THR
2	CB	1026	ILE
2	CB	1027	TYR
2	CB	1028	VAL
2	CB	1030	VAL
2	CB	1031	VAL
2	CB	1033	TYR
2	CB	1034	GLN
2	CB	1036	LEU
2	CB	1039	MET
2	CB	1040	VAL
2	CB	1044	PHE
2	CB	1045	GLN
2	CB	1047	ARG
2	CB	1056	THR
2	CB	1058	GLN
2	CB	1070	ARG
2	CB	1075	GLU
2	CB	1077	ASP
2	CB	1085	SER
2	CB	1091	ARG
2	CB	1092	LEU
2	CB	1093	LEU
2	CB	1094	ASN
2	CB	1102	SER
2	CB	1103	VAL
2	CB	1109	SER
2	CB	1110	ILE
2	CB	1111	LEU

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Mol	Chain	Res	Type
2	CB	1112	THR
2	CB	1119	ARG
2	CB	1120	ILE
2	CB	1127	CYS
2	CB	1133	MET
2	CB	1136	GLU
2	CB	1140	LYS
2	CB	1142	LEU
2	CB	1143	THR
2	CB	1150	LYS
2	CB	1151	ILE
2	CB	1153	ILE
2	CB	1156	SER
2	CB	1157	GLN
2	CB	1163	GLN
2	CB	1168	VAL
2	CB	1173	THR
2	CB	1174	THR
2	CB	1181	VAL
2	CB	1182	LEU
2	CB	1185	LEU
2	CB	1189	LEU
2	CB	1190	SER
2	CB	1198	TYR
2	CB	1200	VAL
2	CB	1201	GLU
3	CC	32	ASN
3	CC	45	SER
3	CC	48	ASP
3	CC	51	GLU
3	CC	57	ILE
3	CC	59	ILE
3	CC	61	THR
3	CC	69	ARG
3	CC	71	MET
3	CC	72	ILE
3	CC	78	VAL
3	CC	82	TYR
3	CC	86	PHE
3	CC	97	LEU
3	CC	101	ILE
3	CC	118	SER

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Mol	Chain	Res	Type
3	CC	122	ASP
3	CC	128	ASP
3	CC	129	GLU
3	CC	131	THR
3	CC	132	ILE
3	CC	136	LEU
3	CC	139	LYS
3	CC	151	THR
3	CC	168	LYS
3	CC	177	THR
3	CC	185	VAL
3	CC	193	LEU
3	CC	196	LEU
3	CC	202	ILE
3	CC	208	CYS
3	CC	209	ILE
3	CC	210	LEU
3	CC	222	VAL
3	CC	224	THR
3	CC	226	SER
3	CC	235	ILE
3	CC	237	GLN
3	CC	262	SER
3	CC	264	GLU
3	CC	267	VAL
3	CC	274	THR
3	CC	275	VAL
3	CC	277	ARG
3	CC	279	VAL
3	CC	287	ASP
3	CC	289	VAL
3	CC	291	LEU
3	CC	294	VAL
3	CC	303	GLU
3	CC	313	ILE
3	CC	324	LYS
3	CC	334	THR
4	CD	12	THR
4	CD	14	THR
4	CD	20	VAL
4	CD	80	THR
4	CD	82	LEU

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Mol	Chain	Res	Type
4	CD	87	SER
4	CD	88	GLN
4	CD	94	ARG
4	CD	99	LEU
5	CE	4	GLU
5	CE	6	GLU
5	CE	8	ASN
5	CE	9	ILE
5	CE	10	SER
5	CE	31	THR
5	CE	34	GLU
5	CE	41	ASP
5	CE	52	ARG
5	CE	57	MET
5	CE	60	PHE
5	CE	61	GLN
5	CE	66	GLU
5	CE	70	SER
5	CE	71	LYS
5	CE	78	LEU
5	CE	81	GLU
5	CE	90	VAL
5	CE	92	THR
5	CE	93	MET
5	CE	106	GLN
5	CE	107	THR
5	CE	123	LEU
5	CE	126	SER
5	CE	127	ILE
5	CE	131	THR
5	CE	141	VAL
5	CE	142	VAL
5	CE	144	ILE
5	CE	148	GLU
5	CE	150	VAL
5	CE	152	LYS
5	CE	153	HIS
5	CE	166	LYS
5	CE	172	GLU
5	CE	175	LEU
5	CE	177	ARG
5	CE	178	ILE

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Mol	Chain	Res	Type
5	CE	186	LEU
5	CE	192	ARG
5	CE	196	VAL
5	CE	201	LYS
5	CE	202	SER
5	CE	207	ARG
5	CE	213	ILE
6	CF	56	GLU
6	CF	59	GLN
6	CF	77	ASP
6	CF	82	THR
6	CF	93	ILE
6	CF	96	THR
6	CF	99	LEU
6	CF	109	VAL
6	CF	110	ASP
6	CF	114	GLU
6	CF	118	LEU
6	CF	130	ILE
6	CF	148	VAL
6	CF	149	GLU
6	CF	151	LEU
6	CF	152	ILE
6	CF	154	ASP
7	CG	10	ASN
7	CG	11	ARG
7	CG	15	ARG
7	CG	16	PHE
7	CG	17	ILE
7	CG	19	LYS
7	CG	20	HIS
7	CG	24	VAL
7	CG	28	ILE
7	CG	29	ASP
7	CG	34	THR
7	CG	35	SER
7	CG	37	CYS
7	CG	38	ILE
7	CG	39	VAL
7	CG	43	ILE
7	CG	45	LEU
7	CG	54	LEU

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Mol	Chain	Res	Type
7	CG	64	GLN
7	CG	70	VAL
7	CG	76	LYS
7	CG	77	VAL
7	CG	80	VAL
7	CG	81	VAL
7	CG	95	LEU
7	CG	97	LYS
7	CG	105	ILE
7	CG	106	LYS
7	CG	111	THR
7	CG	116	THR
7	CG	120	VAL
7	CG	122	LEU
7	CG	126	GLN
7	CG	128	GLN
7	CG	132	VAL
7	CG	139	ILE
7	CG	141	SER
7	CG	147	LEU
7	CG	148	LEU
7	CG	149	ILE
7	CG	164	VAL
7	CG	165	ASP
7	CG	169	VAL
7	CG	170	HIS
7	CG	172	ASP
7	CG	173	VAL
7	CG	174	GLU
7	CG	219	ASP
7	CG	221	ASN
7	CG	226	ASP
7	CG	232	THR
7	CG	233	VAL
7	CG	239	THR
7	CG	243	VAL
7	CG	248	THR
7	CG	249	LEU
7	CG	250	ILE
7	CG	251	SER
8	CH	5	LEU
8	CH	7	ASP

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Mol	Chain	Res	Type
8	CH	8	ASP
8	CH	9	ILE
8	CH	13	SER
8	CH	25	ARG
8	CH	30	SER
8	CH	32	THR
8	CH	35	GLN
8	CH	38	LEU
8	CH	42	ILE
8	CH	45	GLU
8	CH	46	LEU
8	CH	54	SER
8	CH	55	LEU
8	CH	57	VAL
8	CH	59	ILE
8	CH	63	LEU
8	CH	80	ARG
8	CH	83	GLN
8	CH	87	ARG
8	CH	94	ASP
8	CH	100	THR
8	CH	107	VAL
8	CH	108	SER
8	CH	112	ILE
8	CH	114	VAL
8	CH	121	LEU
8	CH	122	LEU
8	CH	123	MET
8	CH	124	ARG
8	CH	133	ASN
8	CH	137	GLN
8	CH	138	GLU
8	CH	143	LEU
8	CH	145	ARG
9	CI	3	VAL
9	CI	8	ILE
9	CI	11	LEU
9	CI	15	ASP
9	CI	26	SER
9	CI	31	SER
9	CI	32	GLN
9	CI	42	PHE

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Mol	Chain	Res	Type
9	CI	45	LEU
9	CI	47	VAL
9	CI	49	THR
9	CI	66	VAL
9	CI	68	LYS
9	CI	70	SER
9	CI	72	LYS
9	CI	73	LYS
9	CI	89	CYS
9	CI	93	GLU
9	CI	98	THR
9	CI	100	GLN
9	CI	102	ARG
9	CI	106	GLU
9	CI	110	VAL
9	CI	111	PHE
9	CI	120	LYS
9	CI	122	ARG
9	CI	123	THR
10	CJ	1	MET
10	CJ	3	VAL
10	CJ	12	LYS
10	CJ	13	VAL
10	CJ	14	VAL
10	CJ	20	SER
10	CJ	23	ASN
10	CJ	27	GLU
10	CJ	34	THR
10	CJ	38	ARG
10	CJ	44	TYR
10	CJ	48	ARG
10	CJ	58	GLU
10	CJ	59	LYS
10	CJ	66	LEU
10	CJ	67	GLU
10	CJ	68	LYS
11	CK	45	GLU
11	CK	51	THR
11	CK	56	GLU
11	CK	59	THR
11	CK	62	SER
11	CK	65	ILE

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Mol	Chain	Res	Type
11	CK	66	VAL
11	CK	68	GLU
11	CK	71	THR
11	CK	72	LEU
11	CK	89	CYS
11	CK	93	ILE
11	CK	98	GLU
11	CK	99	ASN
11	CK	103	ILE
11	CK	107	THR
11	CK	111	THR
11	CK	112	THR
11	CK	117	LEU
11	CK	125	MET
11	CK	128	CYS
11	CK	134	LYS
11	CK	136	THR
11	CK	139	ILE
11	CK	142	MET
12	CL	27	LEU
12	CL	28	LYS
12	CL	35	SER
12	CL	36	SER
12	CL	38	LEU
12	CL	49	LYS
12	CL	53	HIS
12	CL	55	ILE
12	CL	57	LEU
12	CL	58	LYS
12	CL	65	VAL
12	CL	66	GLN
12	CL	68	GLU
13	CM	7	VAL
13	CM	9	GLU
13	CM	10	ILE
13	CM	12	ILE
13	CM	18	GLN
13	CM	25	SER
13	CM	28	LYS
13	CM	36	THR
13	CM	42	LYS
13	CM	44	LYS

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Mol	Chain	Res	Type
13	CM	54	HIS
13	CM	56	GLU
13	CM	57	ASN
13	CM	58	GLU
13	CM	60	LEU
13	CM	65	TYR
13	CM	68	SER
13	CM	70	SER
13	CM	78	VAL
13	CM	85	LYS
13	CM	88	ILE
13	CM	95	VAL
13	CM	97	VAL
13	CM	98	SER
13	CM	100	VAL
13	CM	104	SER
13	CM	109	ARG
14	CN	25	ILE
14	CN	33	LYS
14	CN	37	ASN
14	CN	50	GLN
14	CN	53	VAL
14	CN	56	ILE
14	CN	58	PHE
14	CN	64	ILE
14	CN	70	LEU
14	CN	72	VAL
14	CN	75	GLU
14	CN	78	THR
14	CN	79	THR
14	CN	80	MET
14	CN	81	THR
14	CN	85	HIS
14	CN	89	ILE
14	CN	90	MET
14	CN	93	THR
14	CN	106	ASN
14	CN	107	MET
14	CN	108	THR
14	CN	114	GLU
14	CN	118	SER
14	CN	123	SER

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Mol	Chain	Res	Type
14	CN	124	THR
14	CN	126	LYS
14	CN	127	ASP
14	CN	138	SER
14	CN	139	VAL
14	CN	141	GLU
14	CN	145	ILE
14	CN	148	ILE
14	CN	151	SER
14	CN	152	LYS
14	CN	155	VAL
14	CN	157	ARG
14	CN	160	VAL
14	CN	163	VAL
14	CN	171	PHE
14	CN	179	ASP
14	CN	180	PHE
7	CO	266	GLN
7	CO	268	GLU
7	CO	270	LEU
7	CO	272	ILE
7	CO	273	VAL
7	CO	275	ASN
7	CO	277	LYS
7	CO	280	PHE
7	CO	287	GLU
7	CO	289	LYS
7	CO	292	HIS
7	CO	295	LEU
7	CO	297	LEU
7	CO	300	VAL
7	CO	302	GLU
7	CO	306	SER
7	CO	310	TYR
7	CO	312	GLU
1	DA	3	ILE
1	DA	9	SER
1	DA	11	ILE
1	DA	12	THR
1	DA	16	PHE
1	DA	18	ILE
1	DA	20	THR

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Mol	Chain	Res	Type
1	DA	22	LYS
1	DA	31	GLN
1	DA	40	ASN
1	DA	41	LEU
1	DA	61	LEU
1	DA	62	CYS
1	DA	83	VAL
1	DA	86	TYR
1	DA	89	LEU
1	DA	109	ARG
1	DA	112	SER
1	DA	121	LYS
1	DA	130	ILE
1	DA	136	LEU
1	DA	143	SER
1	DA	176	THR
1	DA	177	LEU
1	DA	180	GLU
1	DA	186	SER
1	DA	189	VAL
1	DA	198	SER
1	DA	199	ASP
1	DA	202	THR
1	DA	203	THR
1	DA	205	ARG
1	DA	225	LYS
1	DA	312	SER
1	DA	315	ILE
1	DA	325	ASP
1	DA	326	THR
1	DA	330	LYS
1	DA	333	CYS
1	DA	334	VAL
1	DA	345	LEU
1	DA	346	SER
1	DA	347	ARG
1	DA	349	LEU
1	DA	357	MET
1	DA	359	VAL
1	DA	365	THR
1	DA	366	ARG
1	DA	371	SER

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Mol	Chain	Res	Type
1	DA	372	LYS
1	DA	375	GLU
1	DA	381	SER
1	DA	394	LEU
1	DA	397	ARG
1	DA	403	LEU
1	DA	406	LEU
1	DA	407	GLN
1	DA	409	ASP
1	DA	417	ARG
1	DA	423	LEU
1	DA	429	THR
1	DA	444	GLN
1	DA	453	ILE
1	DA	462	LYS
1	DA	464	GLU
1	DA	466	LEU
1	DA	475	ARG
1	DA	476	VAL
1	DA	481	ARG
1	DA	483	VAL
1	DA	484	ILE
1	DA	485	SER
1	DA	500	VAL
1	DA	504	LYS
1	DA	505	LEU
1	DA	506	THR
1	DA	509	GLU
1	DA	512	THR
1	DA	524	ILE
1	DA	529	LYS
1	DA	534	THR
1	DA	549	MET
1	DA	553	GLN
1	DA	555	LYS
1	DA	559	ASN
1	DA	562	LEU
1	DA	565	SER
1	DA	566	SER
1	DA	568	VAL
1	DA	574	ASN
1	DA	575	LYS

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Mol	Chain	Res	Type
1	DA	576	LYS
1	DA	577	VAL
1	DA	581	ILE
1	DA	582	LYS
1	DA	583	ASN
1	DA	590	ASN
1	DA	594	THR
1	DA	595	LEU
1	DA	596	HIS
1	DA	599	SER
1	DA	611	GLU
1	DA	613	THR
1	DA	621	THR
1	DA	627	ASP
1	DA	648	LEU
1	DA	653	THR
1	DA	659	THR
1	DA	666	VAL
1	DA	670	ILE
1	DA	675	SER
1	DA	678	VAL
1	DA	679	TRP
1	DA	681	THR
1	DA	684	ASP
1	DA	688	THR
1	DA	689	ARG
1	DA	700	ILE
1	DA	703	GLU
1	DA	706	HIS
1	DA	709	ARG
1	DA	713	VAL
1	DA	714	THR
1	DA	715	LEU
1	DA	718	THR
1	DA	719	ILE
1	DA	723	TYR
1	DA	727	THR
1	DA	732	ILE
1	DA	736	LEU
1	DA	743	ASP
1	DA	744	MET
1	DA	748	ASN

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Mol	Chain	Res	Type
1	DA	750	ILE
1	DA	755	ILE
1	DA	769	VAL
1	DA	772	LYS
1	DA	773	ASP
1	DA	783	LYS
1	DA	786	TYR
1	DA	789	SER
1	DA	804	GLU
1	DA	805	VAL
1	DA	808	LYS
1	DA	809	VAL
1	DA	812	VAL
1	DA	816	LEU
1	DA	821	ILE
1	DA	822	THR
1	DA	824	THR
1	DA	830	MET
1	DA	831	ASP
1	DA	833	LEU
1	DA	836	THR
1	DA	856	GLU
1	DA	861	VAL
1	DA	862	THR
1	DA	876	LEU
1	DA	878	ARG
1	DA	882	ILE
1	DA	886	ASN
1	DA	889	SER
1	DA	892	LEU
1	DA	896	THR
1	DA	907	VAL
1	DA	909	SER
1	DA	917	MET
1	DA	922	CYS
1	DA	924	SER
1	DA	925	MET
1	DA	945	CYS
1	DA	952	LEU
1	DA	955	ARG
1	DA	956	ARG
1	DA	957	VAL

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Mol	Chain	Res	Type
1	DA	959	VAL
1	DA	961	VAL
1	DA	966	LEU
1	DA	973	GLU
1	DA	983	LYS
1	DA	985	ARG
1	DA	987	TYR
1	DA	998	HIS
1	DA	999	CYS
1	DA	1003	ARG
1	DA	1004	GLU
1	DA	1013	THR
1	DA	1015	ARG
1	DA	1019	LEU
1	DA	1021	ARG
1	DA	1023	LEU
1	DA	1026	GLN
1	DA	1030	VAL
1	DA	1033	SER
1	DA	1045	LEU
1	DA	1049	MET
1	DA	1053	ASP
1	DA	1057	ILE
1	DA	1059	LYS
1	DA	1072	ASN
1	DA	1076	LEU
1	DA	1083	SER
1	DA	1085	LEU
1	DA	1086	ILE
1	DA	1087	GLU
1	DA	1096	LYS
1	DA	1102	LEU
1	DA	1104	TYR
1	DA	1111	GLU
1	DA	1117	SER
1	DA	1118	VAL
1	DA	1123	VAL
1	DA	1135	SER
1	DA	1136	VAL
1	DA	1137	SER
1	DA	1143	LYS
1	DA	1146	SER

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Mol	Chain	Res	Type
1	DA	1158	SER
1	DA	1159	ASP
1	DA	1169	LEU
1	DA	1173	LYS
1	DA	1175	MET
1	DA	1183	GLU
1	DA	1188	ILE
1	DA	1192	SER
1	DA	1199	GLN
1	DA	1202	LEU
1	DA	1214	ASN
1	DA	1217	LEU
1	DA	1222	LEU
1	DA	1226	VAL
1	DA	1227	MET
1	DA	1235	THR
1	DA	1239	THR
1	DA	1242	ILE
1	DA	1243	TRP
1	DA	1245	ASP
1	DA	1247	SER
1	DA	1250	GLN
1	DA	1252	ASP
1	DA	1253	THR
1	DA	1260	LYS
1	DA	1262	LEU
1	DA	1264	SER
1	DA	1267	ILE
1	DA	1268	ASP
1	DA	1271	ILE
1	DA	1272	VAL
1	DA	1273	THR
1	DA	1275	THR
1	DA	1276	THR
1	DA	1288	ARG
1	DA	1289	SER
1	DA	1292	ILE
1	DA	1294	MET
1	DA	1298	ASP
1	DA	1300	ASN
1	DA	1301	GLU
1	DA	1303	SER

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Mol	Chain	Res	Type
1	DA	1304	GLU
1	DA	1305	GLU
1	DA	1310	LYS
1	DA	1314	GLN
1	DA	1318	SER
1	DA	1324	LEU
1	DA	1325	LEU
1	DA	1329	ILE
1	DA	1343	ASP
1	DA	1344	ILE
1	DA	1434	GLU
1	DA	1437	ASN
1	DA	1439	MET
1	DA	1440	ASN
1	DA	1441	LYS
1	DA	1442	VAL
1	DA	1444	ARG
1	DA	1452	SER
1	DA	1453	HIS
1	DA	1457	ILE
1	DA	1458	THR
1	DA	1459	LYS
1	DA	1465	GLU
1	DA	1466	SER
1	DA	1468	LYS
1	DA	1474	LEU
1	DA	1476	LEU
1	DA	1481	GLU
1	DA	1485	MET
1	DA	1488	ILE
1	DA	1497	ILE
1	DA	1501	ILE
1	DA	1506	ARG
1	DA	1513	GLU
1	DA	1514	ASN
1	DA	1518	VAL
1	DA	1519	LEU
1	DA	1520	VAL
1	DA	1529	MET
1	DA	1533	GLU
1	DA	1536	ILE
1	DA	1542	THR

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Mol	Chain	Res	Type
1	DA	1546	VAL
1	DA	1559	ARG
1	DA	1561	THR
1	DA	1562	ILE
1	DA	1566	ILE
1	DA	1568	ASN
1	DA	1582	LEU
1	DA	1583	ASP
1	DA	1584	LEU
1	DA	1585	ILE
1	DA	1590	THR
1	DA	1603	MET
1	DA	1607	THR
1	DA	1609	SER
1	DA	1613	MET
1	DA	1619	CYS
1	DA	1620	GLN
1	DA	1623	THR
1	DA	1628	ASP
1	DA	1629	ASN
1	DA	1633	GLN
1	DA	1635	ASP
1	DA	1638	SER
1	DA	1647	ASN
1	DA	1649	VAL
2	DB	19	LEU
2	DB	21	ARG
2	DB	22	GLU
2	DB	26	ILE
2	DB	33	SER
2	DB	39	GLN
2	DB	42	VAL
2	DB	53	THR
2	DB	57	ASP
2	DB	65	VAL
2	DB	66	LYS
2	DB	68	ILE
2	DB	73	ILE
2	DB	74	PHE
2	DB	91	LEU
2	DB	93	ASN
2	DB	96	SER

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Mol	Chain	Res	Type
2	DB	101	GLN
2	DB	103	SER
2	DB	109	SER
2	DB	110	ASN
2	DB	117	VAL
2	DB	120	LYS
2	DB	124	SER
2	DB	130	LEU
2	DB	137	LEU
2	DB	150	GLU
2	DB	151	ASN
2	DB	164	MET
2	DB	170	CYS
2	DB	181	VAL
2	DB	190	ILE
2	DB	201	LYS
2	DB	202	LEU
2	DB	203	ILE
2	DB	204	ARG
2	DB	206	LEU
2	DB	207	ILE
2	DB	212	ASN
2	DB	217	ILE
2	DB	228	SER
2	DB	231	HIS
2	DB	234	ILE
2	DB	237	ARG
2	DB	238	SER
2	DB	244	THR
2	DB	245	SER
2	DB	247	THR
2	DB	257	GLN
2	DB	276	ILE
2	DB	295	ASN
2	DB	306	LEU
2	DB	309	LEU
2	DB	315	LYS
2	DB	316	ARG
2	DB	323	ARG
2	DB	328	GLN
2	DB	336	VAL
2	DB	343	ASP

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Mol	Chain	Res	Type
2	DB	347	LEU
2	DB	351	GLN
2	DB	357	ILE
2	DB	365	ASP
2	DB	368	GLN
2	DB	377	MET
2	DB	381	LEU
2	DB	397	THR
2	DB	398	GLN
2	DB	403	LEU
2	DB	404	LEU
2	DB	412	ILE
2	DB	413	LEU
2	DB	417	ILE
2	DB	422	GLN
2	DB	425	ILE
2	DB	432	ILE
2	DB	434	ARG
2	DB	443	LYS
2	DB	452	ARG
2	DB	453	VAL
2	DB	454	ASN
2	DB	460	LYS
2	DB	470	LEU
2	DB	472	SER
2	DB	474	SER
2	DB	476	LEU
2	DB	477	ASP
2	DB	479	GLN
2	DB	491	ILE
2	DB	497	ILE
2	DB	498	SER
2	DB	505	ARG
2	DB	507	SER
2	DB	519	LYS
2	DB	520	LEU
2	DB	521	LEU
2	DB	523	GLU
2	DB	537	SER
2	DB	541	LEU
2	DB	561	ILE
2	DB	577	PHE

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Mol	Chain	Res	Type
2	DB	583	LEU
2	DB	585	CYS
2	DB	588	ILE
2	DB	593	ILE
2	DB	604	ILE
2	DB	616	LYS
2	DB	617	THR
2	DB	622	ILE
2	DB	624	LEU
2	DB	626	ILE
2	DB	636	GLN
2	DB	642	LEU
2	DB	653	VAL
2	DB	654	ARG
2	DB	658	LEU
2	DB	660	LYS
2	DB	661	GLU
2	DB	663	ILE
2	DB	670	VAL
2	DB	674	ILE
2	DB	683	ASN
2	DB	687	THR
2	DB	696	ILE
2	DB	698	SER
2	DB	699	ILE
2	DB	703	LEU
2	DB	711	GLN
2	DB	714	ARG
2	DB	716	MET
2	DB	724	GLN
2	DB	725	THR
2	DB	731	VAL
2	DB	733	LEU
2	DB	737	SER
2	DB	738	ASP
2	DB	745	GLN
2	DB	749	THR
2	DB	751	ILE
2	DB	752	VAL
2	DB	756	LEU
2	DB	762	MET
2	DB	772	VAL

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Mol	Chain	Res	Type
2	DB	773	VAL
2	DB	777	SER
2	DB	779	THR
2	DB	782	ASP
2	DB	783	MET
2	DB	785	ASP
2	DB	789	ILE
2	DB	802	THR
2	DB	806	THR
2	DB	808	LYS
2	DB	809	VAL
2	DB	814	ASN
2	DB	823	GLN
2	DB	829	ASN
2	DB	830	ASP
2	DB	833	PRO
2	DB	835	GLU
2	DB	837	LEU
2	DB	838	GLU
2	DB	840	LEU
2	DB	842	GLU
2	DB	843	ASP
2	DB	845	LEU
2	DB	848	ILE
2	DB	852	VAL
2	DB	858	ILE
2	DB	865	THR
2	DB	870	LYS
2	DB	871	ILE
2	DB	873	THR
2	DB	876	SER
2	DB	882	ILE
2	DB	883	GLU
2	DB	887	LEU
2	DB	888	ILE
2	DB	891	GLU
2	DB	895	PHE
2	DB	896	GLN
2	DB	897	GLU
2	DB	898	LEU
2	DB	903	ILE
2	DB	904	LYS

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Mol	Chain	Res	Type
2	DB	905	TYR
2	DB	907	ILE
2	DB	910	THR
2	DB	919	SER
2	DB	933	THR
2	DB	943	ILE
2	DB	944	GLN
2	DB	947	ILE
2	DB	949	ILE
2	DB	958	MET
2	DB	960	ILE
2	DB	962	MET
2	DB	965	GLU
2	DB	967	LEU
2	DB	977	ILE
2	DB	985	ILE
2	DB	988	GLU
2	DB	991	THR
2	DB	999	GLN
2	DB	1015	SER
2	DB	1018	THR
2	DB	1026	ILE
2	DB	1028	VAL
2	DB	1030	VAL
2	DB	1031	VAL
2	DB	1033	TYR
2	DB	1034	GLN
2	DB	1036	LEU
2	DB	1039	MET
2	DB	1040	VAL
2	DB	1044	PHE
2	DB	1045	GLN
2	DB	1047	ARG
2	DB	1056	THR
2	DB	1058	GLN
2	DB	1070	ARG
2	DB	1075	GLU
2	DB	1077	ASP
2	DB	1085	SER
2	DB	1091	ARG
2	DB	1092	LEU
2	DB	1093	LEU

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Mol	Chain	Res	Type
2	DB	1094	ASN
2	DB	1102	SER
2	DB	1103	VAL
2	DB	1109	SER
2	DB	1110	ILE
2	DB	1111	LEU
2	DB	1112	THR
2	DB	1119	ARG
2	DB	1120	ILE
2	DB	1127	CYS
2	DB	1133	MET
2	DB	1136	GLU
2	DB	1140	LYS
2	DB	1142	LEU
2	DB	1151	ILE
2	DB	1153	ILE
2	DB	1156	SER
2	DB	1157	GLN
2	DB	1163	GLN
2	DB	1168	VAL
2	DB	1173	THR
2	DB	1174	THR
2	DB	1181	VAL
2	DB	1182	LEU
2	DB	1185	LEU
2	DB	1189	LEU
2	DB	1190	SER
2	DB	1198	TYR
2	DB	1200	VAL
2	DB	1201	GLU
3	DC	32	ASN
3	DC	45	SER
3	DC	48	ASP
3	DC	51	GLU
3	DC	57	ILE
3	DC	59	ILE
3	DC	61	THR
3	DC	68	ARG
3	DC	69	ARG
3	DC	71	MET
3	DC	72	ILE
3	DC	78	VAL

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Mol	Chain	Res	Type
3	DC	82	TYR
3	DC	86	PHE
3	DC	97	LEU
3	DC	101	ILE
3	DC	118	SER
3	DC	122	ASP
3	DC	128	ASP
3	DC	129	GLU
3	DC	131	THR
3	DC	132	ILE
3	DC	136	LEU
3	DC	139	LYS
3	DC	151	THR
3	DC	168	LYS
3	DC	177	THR
3	DC	185	VAL
3	DC	193	LEU
3	DC	196	LEU
3	DC	202	ILE
3	DC	208	CYS
3	DC	209	ILE
3	DC	210	LEU
3	DC	222	VAL
3	DC	224	THR
3	DC	226	SER
3	DC	235	ILE
3	DC	237	GLN
3	DC	262	SER
3	DC	263	ASP
3	DC	264	GLU
3	DC	267	VAL
3	DC	274	THR
3	DC	275	VAL
3	DC	277	ARG
3	DC	287	ASP
3	DC	289	VAL
3	DC	291	LEU
3	DC	294	VAL
3	DC	303	GLU
3	DC	313	ILE
3	DC	320	ILE
3	DC	324	LYS

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Mol	Chain	Res	Type
3	DC	334	THR
4	DD	12	THR
4	DD	14	THR
4	DD	20	VAL
4	DD	31	VAL
4	DD	80	THR
4	DD	82	LEU
4	DD	87	SER
4	DD	88	GLN
4	DD	94	ARG
4	DD	99	LEU
5	DE	4	GLU
5	DE	6	GLU
5	DE	8	ASN
5	DE	9	ILE
5	DE	10	SER
5	DE	31	THR
5	DE	34	GLU
5	DE	41	ASP
5	DE	52	ARG
5	DE	57	MET
5	DE	60	PHE
5	DE	61	GLN
5	DE	63	ASN
5	DE	66	GLU
5	DE	70	SER
5	DE	71	LYS
5	DE	78	LEU
5	DE	81	GLU
5	DE	90	VAL
5	DE	92	THR
5	DE	93	MET
5	DE	106	GLN
5	DE	107	THR
5	DE	123	LEU
5	DE	126	SER
5	DE	127	ILE
5	DE	131	THR
5	DE	141	VAL
5	DE	142	VAL
5	DE	144	ILE
5	DE	148	GLU

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Mol	Chain	Res	Type
5	DE	150	VAL
5	DE	153	HIS
5	DE	166	LYS
5	DE	172	GLU
5	DE	175	LEU
5	DE	177	ARG
5	DE	178	ILE
5	DE	186	LEU
5	DE	192	ARG
5	DE	196	VAL
5	DE	201	LYS
5	DE	202	SER
5	DE	207	ARG
5	DE	213	ILE
6	DF	56	GLU
6	DF	59	GLN
6	DF	77	ASP
6	DF	82	THR
6	DF	93	ILE
6	DF	96	THR
6	DF	99	LEU
6	DF	109	VAL
6	DF	110	ASP
6	DF	118	LEU
6	DF	130	ILE
6	DF	148	VAL
6	DF	149	GLU
6	DF	151	LEU
6	DF	152	ILE
6	DF	154	ASP
7	DG	10	ASN
7	DG	11	ARG
7	DG	15	ARG
7	DG	16	PHE
7	DG	17	ILE
7	DG	19	LYS
7	DG	20	HIS
7	DG	24	VAL
7	DG	29	ASP
7	DG	34	THR
7	DG	35	SER
7	DG	37	CYS

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Mol	Chain	Res	Type
7	DG	38	ILE
7	DG	39	VAL
7	DG	45	LEU
7	DG	54	LEU
7	DG	64	GLN
7	DG	70	VAL
7	DG	76	LYS
7	DG	77	VAL
7	DG	80	VAL
7	DG	81	VAL
7	DG	95	LEU
7	DG	97	LYS
7	DG	98	GLU
7	DG	105	ILE
7	DG	106	LYS
7	DG	111	THR
7	DG	116	THR
7	DG	120	VAL
7	DG	122	LEU
7	DG	126	GLN
7	DG	128	GLN
7	DG	132	VAL
7	DG	139	ILE
7	DG	141	SER
7	DG	147	LEU
7	DG	148	LEU
7	DG	149	ILE
7	DG	164	VAL
7	DG	165	ASP
7	DG	169	VAL
7	DG	170	HIS
7	DG	172	ASP
7	DG	173	VAL
7	DG	174	GLU
7	DG	219	ASP
7	DG	221	ASN
7	DG	226	ASP
7	DG	232	THR
7	DG	233	VAL
7	DG	239	THR
7	DG	243	VAL
7	DG	248	THR

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Mol	Chain	Res	Type
7	DG	249	LEU
7	DG	250	ILE
7	DG	251	SER
8	DH	5	LEU
8	DH	7	ASP
8	DH	8	ASP
8	DH	9	ILE
8	DH	13	SER
8	DH	14	GLU
8	DH	25	ARG
8	DH	30	SER
8	DH	35	GLN
8	DH	38	LEU
8	DH	42	ILE
8	DH	45	GLU
8	DH	46	LEU
8	DH	54	SER
8	DH	55	LEU
8	DH	57	VAL
8	DH	59	ILE
8	DH	63	LEU
8	DH	76	THR
8	DH	80	ARG
8	DH	83	GLN
8	DH	87	ARG
8	DH	94	ASP
8	DH	107	VAL
8	DH	108	SER
8	DH	112	ILE
8	DH	114	VAL
8	DH	121	LEU
8	DH	122	LEU
8	DH	123	MET
8	DH	124	ARG
8	DH	133	ASN
8	DH	137	GLN
8	DH	138	GLU
8	DH	143	LEU
8	DH	145	ARG
9	DI	3	VAL
9	DI	8	ILE
9	DI	11	LEU

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Mol	Chain	Res	Type
9	DI	15	ASP
9	DI	31	SER
9	DI	32	GLN
9	DI	42	PHE
9	DI	45	LEU
9	DI	47	VAL
9	DI	49	THR
9	DI	66	VAL
9	DI	68	LYS
9	DI	72	LYS
9	DI	73	LYS
9	DI	93	GLU
9	DI	94	MET
9	DI	98	THR
9	DI	100	GLN
9	DI	102	ARG
9	DI	106	GLU
9	DI	110	VAL
9	DI	111	PHE
9	DI	113	THR
9	DI	120	LYS
9	DI	121	PHE
9	DI	122	ARG
9	DI	123	THR
10	DJ	1	MET
10	DJ	3	VAL
10	DJ	12	LYS
10	DJ	13	VAL
10	DJ	14	VAL
10	DJ	20	SER
10	DJ	23	ASN
10	DJ	27	GLU
10	DJ	34	THR
10	DJ	38	ARG
10	DJ	48	ARG
10	DJ	58	GLU
10	DJ	59	LYS
10	DJ	66	LEU
10	DJ	67	GLU
10	DJ	68	LYS
10	DJ	69	ARG
11	DK	45	GLU

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Mol	Chain	Res	Type
11	DK	51	THR
11	DK	56	GLU
11	DK	59	THR
11	DK	62	SER
11	DK	63	PHE
11	DK	65	ILE
11	DK	66	VAL
11	DK	68	GLU
11	DK	71	THR
11	DK	72	LEU
11	DK	77	ARG
11	DK	89	CYS
11	DK	93	ILE
11	DK	98	GLU
11	DK	99	ASN
11	DK	103	ILE
11	DK	107	THR
11	DK	111	THR
11	DK	112	THR
11	DK	117	LEU
11	DK	125	MET
11	DK	128	CYS
11	DK	134	LYS
11	DK	136	THR
11	DK	139	ILE
11	DK	142	MET
12	DL	27	LEU
12	DL	28	LYS
12	DL	35	SER
12	DL	36	SER
12	DL	38	LEU
12	DL	49	LYS
12	DL	53	HIS
12	DL	55	ILE
12	DL	57	LEU
12	DL	58	LYS
12	DL	65	VAL
12	DL	66	GLN
12	DL	68	GLU
13	DM	7	VAL
13	DM	9	GLU
13	DM	10	ILE

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Mol	Chain	Res	Type
13	DM	12	ILE
13	DM	18	GLN
13	DM	25	SER
13	DM	28	LYS
13	DM	36	THR
13	DM	42	LYS
13	DM	44	LYS
13	DM	54	HIS
13	DM	56	GLU
13	DM	57	ASN
13	DM	58	GLU
13	DM	65	TYR
13	DM	68	SER
13	DM	70	SER
13	DM	78	VAL
13	DM	85	LYS
13	DM	88	ILE
13	DM	95	VAL
13	DM	97	VAL
13	DM	98	SER
13	DM	100	VAL
13	DM	109	ARG
14	DN	25	ILE
14	DN	33	LYS
14	DN	37	ASN
14	DN	40	LEU
14	DN	50	GLN
14	DN	53	VAL
14	DN	56	ILE
14	DN	58	PHE
14	DN	64	ILE
14	DN	70	LEU
14	DN	72	VAL
14	DN	75	GLU
14	DN	78	THR
14	DN	79	THR
14	DN	80	MET
14	DN	81	THR
14	DN	85	HIS
14	DN	89	ILE
14	DN	90	MET
14	DN	94	ASP

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Mol	Chain	Res	Type
14	DN	98	SER
14	DN	105	SER
14	DN	106	ASN
14	DN	107	MET
14	DN	108	THR
14	DN	114	GLU
14	DN	118	SER
14	DN	123	SER
14	DN	124	THR
14	DN	126	LYS
14	DN	127	ASP
14	DN	138	SER
14	DN	139	VAL
14	DN	141	GLU
14	DN	148	ILE
14	DN	151	SER
14	DN	152	LYS
14	DN	155	VAL
14	DN	157	ARG
14	DN	160	VAL
14	DN	163	VAL
14	DN	171	PHE
14	DN	179	ASP
7	DO	266	GLN
7	DO	268	GLU
7	DO	270	LEU
7	DO	272	ILE
7	DO	273	VAL
7	DO	276	LYS
7	DO	277	LYS
7	DO	278	ILE
7	DO	279	VAL
7	DO	280	PHE
7	DO	281	ASP
7	DO	286	ILE
7	DO	289	LYS
7	DO	295	LEU
7	DO	296	ASP
7	DO	297	LEU
7	DO	299	GLU
7	DO	300	VAL
7	DO	307	GLU

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Mol	Chain	Res	Type
7	DO	309	VAL
7	DO	315	SER
1	EA	3	ILE
1	EA	9	SER
1	EA	11	ILE
1	EA	12	THR
1	EA	18	ILE
1	EA	20	THR
1	EA	22	LYS
1	EA	31	GLN
1	EA	40	ASN
1	EA	41	LEU
1	EA	62	CYS
1	EA	83	VAL
1	EA	86	TYR
1	EA	89	LEU
1	EA	109	ARG
1	EA	112	SER
1	EA	114	GLU
1	EA	121	LYS
1	EA	130	ILE
1	EA	136	LEU
1	EA	143	SER
1	EA	176	THR
1	EA	177	LEU
1	EA	179	ASN
1	EA	180	GLU
1	EA	186	SER
1	EA	189	VAL
1	EA	198	SER
1	EA	199	ASP
1	EA	202	THR
1	EA	203	THR
1	EA	205	ARG
1	EA	225	LYS
1	EA	267	LYS
1	EA	312	SER
1	EA	315	ILE
1	EA	325	ASP
1	EA	326	THR
1	EA	330	LYS
1	EA	333	CYS

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Mol	Chain	Res	Type
1	EA	334	VAL
1	EA	345	LEU
1	EA	346	SER
1	EA	347	ARG
1	EA	349	LEU
1	EA	357	MET
1	EA	365	THR
1	EA	366	ARG
1	EA	371	SER
1	EA	372	LYS
1	EA	375	GLU
1	EA	381	SER
1	EA	394	LEU
1	EA	397	ARG
1	EA	403	LEU
1	EA	406	LEU
1	EA	407	GLN
1	EA	408	LYS
1	EA	409	ASP
1	EA	417	ARG
1	EA	423	LEU
1	EA	429	THR
1	EA	444	GLN
1	EA	453	ILE
1	EA	462	LYS
1	EA	464	GLU
1	EA	466	LEU
1	EA	475	ARG
1	EA	476	VAL
1	EA	481	ARG
1	EA	483	VAL
1	EA	484	ILE
1	EA	485	SER
1	EA	500	VAL
1	EA	504	LYS
1	EA	505	LEU
1	EA	506	THR
1	EA	512	THR
1	EA	524	ILE
1	EA	529	LYS
1	EA	534	THR
1	EA	545	SER

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Mol	Chain	Res	Type
1	EA	549	MET
1	EA	553	GLN
1	EA	555	LYS
1	EA	559	ASN
1	EA	562	LEU
1	EA	565	SER
1	EA	566	SER
1	EA	568	VAL
1	EA	574	ASN
1	EA	575	LYS
1	EA	576	LYS
1	EA	577	VAL
1	EA	581	ILE
1	EA	582	LYS
1	EA	583	ASN
1	EA	590	ASN
1	EA	594	THR
1	EA	595	LEU
1	EA	596	HIS
1	EA	599	SER
1	EA	611	GLU
1	EA	613	THR
1	EA	621	THR
1	EA	627	ASP
1	EA	648	LEU
1	EA	653	THR
1	EA	659	THR
1	EA	666	VAL
1	EA	670	ILE
1	EA	675	SER
1	EA	678	VAL
1	EA	679	TRP
1	EA	681	THR
1	EA	684	ASP
1	EA	688	THR
1	EA	689	ARG
1	EA	700	ILE
1	EA	703	GLU
1	EA	706	HIS
1	EA	709	ARG
1	EA	713	VAL
1	EA	714	THR

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Mol	Chain	Res	Type
1	EA	715	LEU
1	EA	718	THR
1	EA	719	ILE
1	EA	723	TYR
1	EA	727	THR
1	EA	732	ILE
1	EA	736	LEU
1	EA	743	ASP
1	EA	744	MET
1	EA	748	ASN
1	EA	750	ILE
1	EA	755	ILE
1	EA	769	VAL
1	EA	772	LYS
1	EA	773	ASP
1	EA	780	ILE
1	EA	783	LYS
1	EA	789	SER
1	EA	804	GLU
1	EA	805	VAL
1	EA	809	VAL
1	EA	810	LEU
1	EA	812	VAL
1	EA	816	LEU
1	EA	821	ILE
1	EA	822	THR
1	EA	824	THR
1	EA	830	MET
1	EA	831	ASP
1	EA	833	LEU
1	EA	836	THR
1	EA	856	GLU
1	EA	861	VAL
1	EA	862	THR
1	EA	868	THR
1	EA	876	LEU
1	EA	878	ARG
1	EA	882	ILE
1	EA	886	ASN
1	EA	889	SER
1	EA	892	LEU
1	EA	896	THR

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Mol	Chain	Res	Type
1	EA	907	VAL
1	EA	917	MET
1	EA	922	CYS
1	EA	924	SER
1	EA	925	MET
1	EA	928	MET
1	EA	945	CYS
1	EA	952	LEU
1	EA	956	ARG
1	EA	957	VAL
1	EA	959	VAL
1	EA	961	VAL
1	EA	964	LYS
1	EA	966	LEU
1	EA	973	GLU
1	EA	983	LYS
1	EA	985	ARG
1	EA	987	TYR
1	EA	998	HIS
1	EA	999	CYS
1	EA	1003	ARG
1	EA	1004	GLU
1	EA	1007	ILE
1	EA	1013	THR
1	EA	1015	ARG
1	EA	1019	LEU
1	EA	1021	ARG
1	EA	1023	LEU
1	EA	1026	GLN
1	EA	1030	VAL
1	EA	1033	SER
1	EA	1045	LEU
1	EA	1046	VAL
1	EA	1053	ASP
1	EA	1057	ILE
1	EA	1059	LYS
1	EA	1072	ASN
1	EA	1076	LEU
1	EA	1083	SER
1	EA	1085	LEU
1	EA	1086	ILE
1	EA	1087	GLU

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Mol	Chain	Res	Type
1	EA	1096	LYS
1	EA	1102	LEU
1	EA	1104	TYR
1	EA	1111	GLU
1	EA	1117	SER
1	EA	1118	VAL
1	EA	1123	VAL
1	EA	1135	SER
1	EA	1136	VAL
1	EA	1137	SER
1	EA	1143	LYS
1	EA	1146	SER
1	EA	1158	SER
1	EA	1159	ASP
1	EA	1169	LEU
1	EA	1172	LEU
1	EA	1173	LYS
1	EA	1175	MET
1	EA	1188	ILE
1	EA	1192	SER
1	EA	1199	GLN
1	EA	1202	LEU
1	EA	1214	ASN
1	EA	1217	LEU
1	EA	1222	LEU
1	EA	1226	VAL
1	EA	1227	MET
1	EA	1235	THR
1	EA	1239	THR
1	EA	1242	ILE
1	EA	1245	ASP
1	EA	1247	SER
1	EA	1250	GLN
1	EA	1253	THR
1	EA	1262	LEU
1	EA	1264	SER
1	EA	1267	ILE
1	EA	1268	ASP
1	EA	1271	ILE
1	EA	1272	VAL
1	EA	1273	THR
1	EA	1275	THR

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Mol	Chain	Res	Type
1	EA	1276	THR
1	EA	1288	ARG
1	EA	1289	SER
1	EA	1292	ILE
1	EA	1294	MET
1	EA	1298	ASP
1	EA	1301	GLU
1	EA	1303	SER
1	EA	1304	GLU
1	EA	1305	GLU
1	EA	1310	LYS
1	EA	1314	GLN
1	EA	1318	SER
1	EA	1324	LEU
1	EA	1325	LEU
1	EA	1344	ILE
1	EA	1437	ASN
1	EA	1439	MET
1	EA	1440	ASN
1	EA	1441	LYS
1	EA	1442	VAL
1	EA	1444	ARG
1	EA	1450	ILE
1	EA	1452	SER
1	EA	1453	HIS
1	EA	1457	ILE
1	EA	1458	THR
1	EA	1459	LYS
1	EA	1465	GLU
1	EA	1466	SER
1	EA	1468	LYS
1	EA	1474	LEU
1	EA	1476	LEU
1	EA	1481	GLU
1	EA	1485	MET
1	EA	1497	ILE
1	EA	1501	ILE
1	EA	1506	ARG
1	EA	1513	GLU
1	EA	1514	ASN
1	EA	1518	VAL
1	EA	1519	LEU

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Mol	Chain	Res	Type
1	EA	1520	VAL
1	EA	1529	MET
1	EA	1533	GLU
1	EA	1536	ILE
1	EA	1542	THR
1	EA	1546	VAL
1	EA	1555	VAL
1	EA	1559	ARG
1	EA	1561	THR
1	EA	1562	ILE
1	EA	1566	ILE
1	EA	1568	ASN
1	EA	1582	LEU
1	EA	1583	ASP
1	EA	1584	LEU
1	EA	1585	ILE
1	EA	1590	THR
1	EA	1603	MET
1	EA	1607	THR
1	EA	1609	SER
1	EA	1613	MET
1	EA	1619	CYS
1	EA	1620	GLN
1	EA	1622	LEU
1	EA	1628	ASP
1	EA	1633	GLN
1	EA	1635	ASP
1	EA	1638	SER
1	EA	1647	ASN
1	EA	1649	VAL
1	EA	1656	VAL
2	EB	19	LEU
2	EB	21	ARG
2	EB	22	GLU
2	EB	26	ILE
2	EB	33	SER
2	EB	39	GLN
2	EB	53	THR
2	EB	57	ASP
2	EB	65	VAL
2	EB	66	LYS
2	EB	68	ILE

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Mol	Chain	Res	Type
2	EB	73	ILE
2	EB	74	PHE
2	EB	77	LYS
2	EB	91	LEU
2	EB	93	ASN
2	EB	96	SER
2	EB	101	GLN
2	EB	103	SER
2	EB	109	SER
2	EB	110	ASN
2	EB	117	VAL
2	EB	120	LYS
2	EB	124	SER
2	EB	130	LEU
2	EB	132	SER
2	EB	136	LYS
2	EB	137	LEU
2	EB	150	GLU
2	EB	151	ASN
2	EB	164	MET
2	EB	170	CYS
2	EB	190	ILE
2	EB	201	LYS
2	EB	202	LEU
2	EB	203	ILE
2	EB	204	ARG
2	EB	206	LEU
2	EB	207	ILE
2	EB	212	ASN
2	EB	217	ILE
2	EB	228	SER
2	EB	231	HIS
2	EB	237	ARG
2	EB	238	SER
2	EB	244	THR
2	EB	245	SER
2	EB	247	THR
2	EB	257	GLN
2	EB	276	ILE
2	EB	295	ASN
2	EB	306	LEU
2	EB	309	LEU

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Mol	Chain	Res	Type
2	EB	315	LYS
2	EB	316	ARG
2	EB	323	ARG
2	EB	328	GLN
2	EB	336	VAL
2	EB	343	ASP
2	EB	347	LEU
2	EB	351	GLN
2	EB	357	ILE
2	EB	368	GLN
2	EB	377	MET
2	EB	381	LEU
2	EB	397	THR
2	EB	398	GLN
2	EB	403	LEU
2	EB	404	LEU
2	EB	412	ILE
2	EB	413	LEU
2	EB	417	ILE
2	EB	422	GLN
2	EB	425	ILE
2	EB	432	ILE
2	EB	434	ARG
2	EB	443	LYS
2	EB	452	ARG
2	EB	453	VAL
2	EB	454	ASN
2	EB	460	LYS
2	EB	462	GLN
2	EB	472	SER
2	EB	474	SER
2	EB	476	LEU
2	EB	477	ASP
2	EB	479	GLN
2	EB	491	ILE
2	EB	497	ILE
2	EB	498	SER
2	EB	505	ARG
2	EB	507	SER
2	EB	519	LYS
2	EB	520	LEU
2	EB	521	LEU

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Mol	Chain	Res	Type
2	EB	523	GLU
2	EB	537	SER
2	EB	541	LEU
2	EB	553	THR
2	EB	561	ILE
2	EB	574	SER
2	EB	577	PHE
2	EB	583	LEU
2	EB	585	CYS
2	EB	593	ILE
2	EB	604	ILE
2	EB	616	LYS
2	EB	617	THR
2	EB	622	ILE
2	EB	624	LEU
2	EB	626	ILE
2	EB	636	GLN
2	EB	642	LEU
2	EB	653	VAL
2	EB	654	ARG
2	EB	658	LEU
2	EB	660	LYS
2	EB	661	GLU
2	EB	663	ILE
2	EB	670	VAL
2	EB	674	ILE
2	EB	683	ASN
2	EB	687	THR
2	EB	696	ILE
2	EB	698	SER
2	EB	699	ILE
2	EB	703	LEU
2	EB	711	GLN
2	EB	714	ARG
2	EB	716	MET
2	EB	724	GLN
2	EB	725	THR
2	EB	731	VAL
2	EB	737	SER
2	EB	738	ASP
2	EB	749	THR
2	EB	751	ILE

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Mol	Chain	Res	Type
2	EB	752	VAL
2	EB	756	LEU
2	EB	762	MET
2	EB	772	VAL
2	EB	773	VAL
2	EB	777	SER
2	EB	779	THR
2	EB	782	ASP
2	EB	783	MET
2	EB	785	ASP
2	EB	789	ILE
2	EB	802	THR
2	EB	808	LYS
2	EB	809	VAL
2	EB	811	LEU
2	EB	814	ASN
2	EB	823	GLN
2	EB	824	HIS
2	EB	829	ASN
2	EB	830	ASP
2	EB	833	PRO
2	EB	835	GLU
2	EB	837	LEU
2	EB	838	GLU
2	EB	840	LEU
2	EB	842	GLU
2	EB	843	ASP
2	EB	845	LEU
2	EB	848	ILE
2	EB	852	VAL
2	EB	858	ILE
2	EB	865	THR
2	EB	870	LYS
2	EB	871	ILE
2	EB	873	THR
2	EB	876	SER
2	EB	882	ILE
2	EB	883	GLU
2	EB	887	LEU
2	EB	888	ILE
2	EB	891	GLU
2	EB	895	PHE

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Mol	Chain	Res	Type
2	EB	896	GLN
2	EB	897	GLU
2	EB	898	LEU
2	EB	903	ILE
2	EB	904	LYS
2	EB	905	TYR
2	EB	907	ILE
2	EB	910	THR
2	EB	912	GLN
2	EB	919	SER
2	EB	933	THR
2	EB	944	GLN
2	EB	947	ILE
2	EB	949	ILE
2	EB	958	MET
2	EB	960	ILE
2	EB	962	MET
2	EB	965	GLU
2	EB	967	LEU
2	EB	977	ILE
2	EB	985	ILE
2	EB	988	GLU
2	EB	991	THR
2	EB	1015	SER
2	EB	1018	THR
2	EB	1026	ILE
2	EB	1028	VAL
2	EB	1030	VAL
2	EB	1031	VAL
2	EB	1033	TYR
2	EB	1034	GLN
2	EB	1036	LEU
2	EB	1039	MET
2	EB	1040	VAL
2	EB	1044	PHE
2	EB	1045	GLN
2	EB	1047	ARG
2	EB	1058	GLN
2	EB	1070	ARG
2	EB	1075	GLU
2	EB	1077	ASP
2	EB	1085	SER

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Mol	Chain	Res	Type
2	EB	1091	ARG
2	EB	1092	LEU
2	EB	1093	LEU
2	EB	1094	ASN
2	EB	1102	SER
2	EB	1103	VAL
2	EB	1109	SER
2	EB	1110	ILE
2	EB	1111	LEU
2	EB	1112	THR
2	EB	1119	ARG
2	EB	1120	ILE
2	EB	1127	CYS
2	EB	1133	MET
2	EB	1136	GLU
2	EB	1140	LYS
2	EB	1142	LEU
2	EB	1144	LYS
2	EB	1150	LYS
2	EB	1151	ILE
2	EB	1153	ILE
2	EB	1156	SER
2	EB	1157	GLN
2	EB	1163	GLN
2	EB	1168	VAL
2	EB	1173	THR
2	EB	1174	THR
2	EB	1181	VAL
2	EB	1185	LEU
2	EB	1189	LEU
2	EB	1190	SER
2	EB	1198	TYR
2	EB	1200	VAL
2	EB	1201	GLU
3	EC	32	ASN
3	EC	45	SER
3	EC	48	ASP
3	EC	51	GLU
3	EC	57	ILE
3	EC	59	ILE
3	EC	61	THR
3	EC	68	ARG

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Mol	Chain	Res	Type
3	EC	69	ARG
3	EC	71	MET
3	EC	78	VAL
3	EC	82	TYR
3	EC	86	PHE
3	EC	97	LEU
3	EC	101	ILE
3	EC	118	SER
3	EC	122	ASP
3	EC	128	ASP
3	EC	129	GLU
3	EC	131	THR
3	EC	132	ILE
3	EC	136	LEU
3	EC	139	LYS
3	EC	151	THR
3	EC	168	LYS
3	EC	177	THR
3	EC	185	VAL
3	EC	193	LEU
3	EC	196	LEU
3	EC	202	ILE
3	EC	208	CYS
3	EC	209	ILE
3	EC	210	LEU
3	EC	222	VAL
3	EC	224	THR
3	EC	226	SER
3	EC	235	ILE
3	EC	237	GLN
3	EC	262	SER
3	EC	263	ASP
3	EC	264	GLU
3	EC	267	VAL
3	EC	274	THR
3	EC	275	VAL
3	EC	277	ARG
3	EC	279	VAL
3	EC	287	ASP
3	EC	289	VAL
3	EC	291	LEU
3	EC	294	VAL

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Mol	Chain	Res	Type
3	EC	303	GLU
3	EC	313	ILE
3	EC	320	ILE
3	EC	324	LYS
3	EC	328	LEU
3	EC	334	THR
4	ED	12	THR
4	ED	14	THR
4	ED	20	VAL
4	ED	42	SER
4	ED	80	THR
4	ED	82	LEU
4	ED	87	SER
4	ED	88	GLN
4	ED	94	ARG
4	ED	99	LEU
5	EE	4	GLU
5	EE	6	GLU
5	EE	8	ASN
5	EE	9	ILE
5	EE	10	SER
5	EE	34	GLU
5	EE	41	ASP
5	EE	57	MET
5	EE	60	PHE
5	EE	61	GLN
5	EE	66	GLU
5	EE	70	SER
5	EE	71	LYS
5	EE	78	LEU
5	EE	81	GLU
5	EE	90	VAL
5	EE	92	THR
5	EE	93	MET
5	EE	106	GLN
5	EE	107	THR
5	EE	123	LEU
5	EE	126	SER
5	EE	127	ILE
5	EE	131	THR
5	EE	141	VAL
5	EE	142	VAL

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Mol	Chain	Res	Type
5	EE	144	ILE
5	EE	148	GLU
5	EE	150	VAL
5	EE	153	HIS
5	EE	166	LYS
5	EE	172	GLU
5	EE	173	SER
5	EE	175	LEU
5	EE	177	ARG
5	EE	178	ILE
5	EE	186	LEU
5	EE	192	ARG
5	EE	196	VAL
5	EE	202	SER
5	EE	207	ARG
5	EE	213	ILE
6	EF	56	GLU
6	EF	59	GLN
6	EF	77	ASP
6	EF	82	THR
6	EF	93	ILE
6	EF	96	THR
6	EF	99	LEU
6	EF	109	VAL
6	EF	110	ASP
6	EF	118	LEU
6	EF	130	ILE
6	EF	148	VAL
6	EF	149	GLU
6	EF	151	LEU
6	EF	152	ILE
6	EF	154	ASP
7	EG	10	ASN
7	EG	11	ARG
7	EG	15	ARG
7	EG	16	PHE
7	EG	17	ILE
7	EG	19	LYS
7	EG	20	HIS
7	EG	24	VAL
7	EG	29	ASP
7	EG	34	THR

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Mol	Chain	Res	Type
7	EG	35	SER
7	EG	37	CYS
7	EG	38	ILE
7	EG	39	VAL
7	EG	43	ILE
7	EG	45	LEU
7	EG	54	LEU
7	EG	64	GLN
7	EG	70	VAL
7	EG	76	LYS
7	EG	77	VAL
7	EG	80	VAL
7	EG	81	VAL
7	EG	95	LEU
7	EG	97	LYS
7	EG	105	ILE
7	EG	106	LYS
7	EG	116	THR
7	EG	120	VAL
7	EG	122	LEU
7	EG	126	GLN
7	EG	128	GLN
7	EG	132	VAL
7	EG	139	ILE
7	EG	147	LEU
7	EG	148	LEU
7	EG	149	ILE
7	EG	164	VAL
7	EG	165	ASP
7	EG	169	VAL
7	EG	170	HIS
7	EG	172	ASP
7	EG	173	VAL
7	EG	174	GLU
7	EG	219	ASP
7	EG	221	ASN
7	EG	226	ASP
7	EG	232	THR
7	EG	233	VAL
7	EG	239	THR
7	EG	243	VAL
7	EG	248	THR

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Mol	Chain	Res	Type
7	EG	249	LEU
7	EG	250	ILE
7	EG	251	SER
8	EH	5	LEU
8	EH	7	ASP
8	EH	8	ASP
8	EH	9	ILE
8	EH	13	SER
8	EH	25	ARG
8	EH	30	SER
8	EH	35	GLN
8	EH	38	LEU
8	EH	42	ILE
8	EH	45	GLU
8	EH	46	LEU
8	EH	54	SER
8	EH	55	LEU
8	EH	57	VAL
8	EH	59	ILE
8	EH	63	LEU
8	EH	80	ARG
8	EH	83	GLN
8	EH	87	ARG
8	EH	94	ASP
8	EH	107	VAL
8	EH	108	SER
8	EH	112	ILE
8	EH	114	VAL
8	EH	121	LEU
8	EH	122	LEU
8	EH	123	MET
8	EH	124	ARG
8	EH	133	ASN
8	EH	137	GLN
8	EH	143	LEU
8	EH	145	ARG
9	EI	3	VAL
9	EI	8	ILE
9	EI	11	LEU
9	EI	15	ASP
9	EI	31	SER
9	EI	32	GLN

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Mol	Chain	Res	Type
9	EI	45	LEU
9	EI	47	VAL
9	EI	49	THR
9	EI	53	ASP
9	EI	66	VAL
9	EI	68	LYS
9	EI	72	LYS
9	EI	73	LYS
9	EI	89	CYS
9	EI	93	GLU
9	EI	94	MET
9	EI	98	THR
9	EI	100	GLN
9	EI	102	ARG
9	EI	106	GLU
9	EI	110	VAL
9	EI	111	PHE
9	EI	120	LYS
9	EI	122	ARG
9	EI	123	THR
10	EJ	1	MET
10	EJ	3	VAL
10	EJ	12	LYS
10	EJ	13	VAL
10	EJ	14	VAL
10	EJ	20	SER
10	EJ	23	ASN
10	EJ	27	GLU
10	EJ	32	GLU
10	EJ	34	THR
10	EJ	38	ARG
10	EJ	48	ARG
10	EJ	49	MET
10	EJ	58	GLU
10	EJ	59	LYS
10	EJ	66	LEU
10	EJ	67	GLU
10	EJ	68	LYS
11	EK	45	GLU
11	EK	51	THR
11	EK	56	GLU
11	EK	59	THR

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Mol	Chain	Res	Type
11	EK	62	SER
11	EK	63	PHE
11	EK	65	ILE
11	EK	66	VAL
11	EK	68	GLU
11	EK	71	THR
11	EK	72	LEU
11	EK	89	CYS
11	EK	93	ILE
11	EK	98	GLU
11	EK	99	ASN
11	EK	103	ILE
11	EK	107	THR
11	EK	111	THR
11	EK	112	THR
11	EK	117	LEU
11	EK	125	MET
11	EK	128	CYS
11	EK	134	LYS
11	EK	136	THR
11	EK	139	ILE
11	EK	142	MET
12	EL	27	LEU
12	EL	28	LYS
12	EL	35	SER
12	EL	36	SER
12	EL	38	LEU
12	EL	49	LYS
12	EL	53	HIS
12	EL	55	ILE
12	EL	57	LEU
12	EL	58	LYS
12	EL	65	VAL
12	EL	66	GLN
12	EL	68	GLU
13	EM	6	SER
13	EM	7	VAL
13	EM	9	GLU
13	EM	10	ILE
13	EM	12	ILE
13	EM	18	GLN
13	EM	20	SER

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Mol	Chain	Res	Type
13	EM	25	SER
13	EM	28	LYS
13	EM	36	THR
13	EM	42	LYS
13	EM	44	LYS
13	EM	54	HIS
13	EM	56	GLU
13	EM	57	ASN
13	EM	58	GLU
13	EM	65	TYR
13	EM	68	SER
13	EM	70	SER
13	EM	78	VAL
13	EM	80	LEU
13	EM	85	LYS
13	EM	88	ILE
13	EM	95	VAL
13	EM	97	VAL
13	EM	98	SER
13	EM	100	VAL
13	EM	109	ARG
14	EN	25	ILE
14	EN	33	LYS
14	EN	37	ASN
14	EN	40	LEU
14	EN	41	ASN
14	EN	50	GLN
14	EN	53	VAL
14	EN	56	ILE
14	EN	58	PHE
14	EN	64	ILE
14	EN	70	LEU
14	EN	72	VAL
14	EN	75	GLU
14	EN	78	THR
14	EN	79	THR
14	EN	80	MET
14	EN	81	THR
14	EN	85	HIS
14	EN	89	ILE
14	EN	90	MET
14	EN	98	SER

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Mol	Chain	Res	Type
14	EN	106	ASN
14	EN	107	MET
14	EN	108	THR
14	EN	114	GLU
14	EN	118	SER
14	EN	123	SER
14	EN	124	THR
14	EN	126	LYS
14	EN	127	ASP
14	EN	138	SER
14	EN	139	VAL
14	EN	141	GLU
14	EN	148	ILE
14	EN	151	SER
14	EN	152	LYS
14	EN	155	VAL
14	EN	157	ARG
14	EN	160	VAL
14	EN	162	LYS
14	EN	163	VAL
14	EN	171	PHE
7	EO	268	GLU
7	EO	270	LEU
7	EO	272	ILE
7	EO	273	VAL
7	EO	275	ASN
7	EO	279	VAL
7	EO	283	GLU
7	EO	292	HIS
7	EO	295	LEU
7	EO	296	ASP
7	EO	297	LEU
7	EO	301	LYS
7	EO	302	GLU
7	EO	303	ASP
7	EO	304	ASN
7	EO	309	VAL
7	EO	315	SER
1	FA	3	ILE
1	FA	9	SER
1	FA	11	ILE
1	FA	12	THR

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Mol	Chain	Res	Type
1	FA	18	ILE
1	FA	20	THR
1	FA	22	LYS
1	FA	31	GLN
1	FA	40	ASN
1	FA	41	LEU
1	FA	62	CYS
1	FA	83	VAL
1	FA	86	TYR
1	FA	89	LEU
1	FA	109	ARG
1	FA	112	SER
1	FA	113	VAL
1	FA	114	GLU
1	FA	121	LYS
1	FA	130	ILE
1	FA	136	LEU
1	FA	176	THR
1	FA	177	LEU
1	FA	179	ASN
1	FA	180	GLU
1	FA	186	SER
1	FA	189	VAL
1	FA	198	SER
1	FA	199	ASP
1	FA	202	THR
1	FA	203	THR
1	FA	205	ARG
1	FA	225	LYS
1	FA	312	SER
1	FA	315	ILE
1	FA	325	ASP
1	FA	326	THR
1	FA	330	LYS
1	FA	333	CYS
1	FA	345	LEU
1	FA	346	SER
1	FA	347	ARG
1	FA	349	LEU
1	FA	357	MET
1	FA	365	THR
1	FA	366	ARG

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Mol	Chain	Res	Type
1	FA	371	SER
1	FA	372	LYS
1	FA	373	LEU
1	FA	375	GLU
1	FA	381	SER
1	FA	394	LEU
1	FA	397	ARG
1	FA	403	LEU
1	FA	406	LEU
1	FA	407	GLN
1	FA	408	LYS
1	FA	409	ASP
1	FA	417	ARG
1	FA	423	LEU
1	FA	429	THR
1	FA	453	ILE
1	FA	462	LYS
1	FA	464	GLU
1	FA	466	LEU
1	FA	475	ARG
1	FA	476	VAL
1	FA	481	ARG
1	FA	483	VAL
1	FA	484	ILE
1	FA	500	VAL
1	FA	504	LYS
1	FA	505	LEU
1	FA	506	THR
1	FA	509	GLU
1	FA	512	THR
1	FA	524	ILE
1	FA	529	LYS
1	FA	534	THR
1	FA	545	SER
1	FA	549	MET
1	FA	553	GLN
1	FA	555	LYS
1	FA	562	LEU
1	FA	565	SER
1	FA	566	SER
1	FA	568	VAL
1	FA	574	ASN

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Mol	Chain	Res	Type
1	FA	575	LYS
1	FA	576	LYS
1	FA	577	VAL
1	FA	581	ILE
1	FA	582	LYS
1	FA	583	ASN
1	FA	590	ASN
1	FA	594	THR
1	FA	595	LEU
1	FA	596	HIS
1	FA	599	SER
1	FA	611	GLU
1	FA	613	THR
1	FA	621	THR
1	FA	627	ASP
1	FA	648	LEU
1	FA	653	THR
1	FA	659	THR
1	FA	666	VAL
1	FA	670	ILE
1	FA	675	SER
1	FA	678	VAL
1	FA	679	TRP
1	FA	684	ASP
1	FA	688	THR
1	FA	689	ARG
1	FA	700	ILE
1	FA	703	GLU
1	FA	706	HIS
1	FA	709	ARG
1	FA	713	VAL
1	FA	714	THR
1	FA	715	LEU
1	FA	718	THR
1	FA	719	ILE
1	FA	723	TYR
1	FA	727	THR
1	FA	732	ILE
1	FA	736	LEU
1	FA	743	ASP
1	FA	744	MET
1	FA	748	ASN

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Mol	Chain	Res	Type
1	FA	750	ILE
1	FA	755	ILE
1	FA	769	VAL
1	FA	772	LYS
1	FA	773	ASP
1	FA	783	LYS
1	FA	789	SER
1	FA	804	GLU
1	FA	805	VAL
1	FA	808	LYS
1	FA	809	VAL
1	FA	810	LEU
1	FA	812	VAL
1	FA	816	LEU
1	FA	821	ILE
1	FA	822	THR
1	FA	830	MET
1	FA	831	ASP
1	FA	833	LEU
1	FA	836	THR
1	FA	856	GLU
1	FA	861	VAL
1	FA	862	THR
1	FA	876	LEU
1	FA	878	ARG
1	FA	886	ASN
1	FA	889	SER
1	FA	892	LEU
1	FA	896	THR
1	FA	907	VAL
1	FA	909	SER
1	FA	917	MET
1	FA	922	CYS
1	FA	924	SER
1	FA	925	MET
1	FA	945	CYS
1	FA	952	LEU
1	FA	955	ARG
1	FA	956	ARG
1	FA	957	VAL
1	FA	959	VAL
1	FA	961	VAL

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Mol	Chain	Res	Type
1	FA	964	LYS
1	FA	966	LEU
1	FA	973	GLU
1	FA	983	LYS
1	FA	985	ARG
1	FA	987	TYR
1	FA	998	HIS
1	FA	1003	ARG
1	FA	1004	GLU
1	FA	1007	ILE
1	FA	1013	THR
1	FA	1015	ARG
1	FA	1019	LEU
1	FA	1021	ARG
1	FA	1023	LEU
1	FA	1026	GLN
1	FA	1030	VAL
1	FA	1033	SER
1	FA	1045	LEU
1	FA	1049	MET
1	FA	1057	ILE
1	FA	1059	LYS
1	FA	1072	ASN
1	FA	1076	LEU
1	FA	1083	SER
1	FA	1085	LEU
1	FA	1086	ILE
1	FA	1087	GLU
1	FA	1096	LYS
1	FA	1102	LEU
1	FA	1104	TYR
1	FA	1111	GLU
1	FA	1117	SER
1	FA	1118	VAL
1	FA	1123	VAL
1	FA	1135	SER
1	FA	1136	VAL
1	FA	1137	SER
1	FA	1143	LYS
1	FA	1146	SER
1	FA	1158	SER
1	FA	1159	ASP

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Mol	Chain	Res	Type
1	FA	1169	LEU
1	FA	1172	LEU
1	FA	1173	LYS
1	FA	1175	MET
1	FA	1188	ILE
1	FA	1192	SER
1	FA	1199	GLN
1	FA	1202	LEU
1	FA	1214	ASN
1	FA	1217	LEU
1	FA	1222	LEU
1	FA	1226	VAL
1	FA	1227	MET
1	FA	1235	THR
1	FA	1239	THR
1	FA	1242	ILE
1	FA	1243	TRP
1	FA	1245	ASP
1	FA	1247	SER
1	FA	1250	GLN
1	FA	1253	THR
1	FA	1262	LEU
1	FA	1264	SER
1	FA	1267	ILE
1	FA	1268	ASP
1	FA	1271	ILE
1	FA	1272	VAL
1	FA	1273	THR
1	FA	1275	THR
1	FA	1276	THR
1	FA	1288	ARG
1	FA	1289	SER
1	FA	1292	ILE
1	FA	1294	MET
1	FA	1298	ASP
1	FA	1301	GLU
1	FA	1303	SER
1	FA	1304	GLU
1	FA	1305	GLU
1	FA	1310	LYS
1	FA	1314	GLN
1	FA	1318	SER

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Mol	Chain	Res	Type
1	FA	1324	LEU
1	FA	1325	LEU
1	FA	1343	ASP
1	FA	1344	ILE
1	FA	1434	GLU
1	FA	1437	ASN
1	FA	1439	MET
1	FA	1440	ASN
1	FA	1441	LYS
1	FA	1442	VAL
1	FA	1444	ARG
1	FA	1450	ILE
1	FA	1452	SER
1	FA	1453	HIS
1	FA	1457	ILE
1	FA	1458	THR
1	FA	1459	LYS
1	FA	1465	GLU
1	FA	1466	SER
1	FA	1468	LYS
1	FA	1474	LEU
1	FA	1476	LEU
1	FA	1481	GLU
1	FA	1485	MET
1	FA	1488	ILE
1	FA	1497	ILE
1	FA	1501	ILE
1	FA	1506	ARG
1	FA	1513	GLU
1	FA	1514	ASN
1	FA	1518	VAL
1	FA	1519	LEU
1	FA	1520	VAL
1	FA	1529	MET
1	FA	1536	ILE
1	FA	1542	THR
1	FA	1543	SER
1	FA	1546	VAL
1	FA	1559	ARG
1	FA	1561	THR
1	FA	1562	ILE
1	FA	1566	ILE

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Mol	Chain	Res	Type
1	FA	1568	ASN
1	FA	1582	LEU
1	FA	1583	ASP
1	FA	1584	LEU
1	FA	1585	ILE
1	FA	1590	THR
1	FA	1603	MET
1	FA	1607	THR
1	FA	1609	SER
1	FA	1613	MET
1	FA	1619	CYS
1	FA	1622	LEU
1	FA	1623	THR
1	FA	1628	ASP
1	FA	1629	ASN
1	FA	1633	GLN
1	FA	1635	ASP
1	FA	1638	SER
1	FA	1647	ASN
1	FA	1649	VAL
1	FA	1656	VAL
2	FB	12	ARG
2	FB	19	LEU
2	FB	21	ARG
2	FB	22	GLU
2	FB	26	ILE
2	FB	33	SER
2	FB	39	GLN
2	FB	42	VAL
2	FB	53	THR
2	FB	57	ASP
2	FB	65	VAL
2	FB	66	LYS
2	FB	68	ILE
2	FB	73	ILE
2	FB	74	PHE
2	FB	77	LYS
2	FB	93	ASN
2	FB	96	SER
2	FB	98	SER
2	FB	101	GLN
2	FB	103	SER

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Mol	Chain	Res	Type
2	FB	109	SER
2	FB	110	ASN
2	FB	117	VAL
2	FB	120	LYS
2	FB	124	SER
2	FB	130	LEU
2	FB	136	LYS
2	FB	137	LEU
2	FB	150	GLU
2	FB	151	ASN
2	FB	164	MET
2	FB	170	CYS
2	FB	181	VAL
2	FB	190	ILE
2	FB	201	LYS
2	FB	202	LEU
2	FB	203	ILE
2	FB	204	ARG
2	FB	206	LEU
2	FB	207	ILE
2	FB	212	ASN
2	FB	217	ILE
2	FB	228	SER
2	FB	231	HIS
2	FB	234	ILE
2	FB	237	ARG
2	FB	238	SER
2	FB	244	THR
2	FB	245	SER
2	FB	247	THR
2	FB	276	ILE
2	FB	295	ASN
2	FB	306	LEU
2	FB	309	LEU
2	FB	315	LYS
2	FB	316	ARG
2	FB	328	GLN
2	FB	336	VAL
2	FB	343	ASP
2	FB	347	LEU
2	FB	351	GLN
2	FB	357	ILE

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Mol	Chain	Res	Type
2	FB	368	GLN
2	FB	377	MET
2	FB	381	LEU
2	FB	397	THR
2	FB	398	GLN
2	FB	403	LEU
2	FB	404	LEU
2	FB	412	ILE
2	FB	413	LEU
2	FB	417	ILE
2	FB	422	GLN
2	FB	425	ILE
2	FB	432	ILE
2	FB	434	ARG
2	FB	443	LYS
2	FB	452	ARG
2	FB	453	VAL
2	FB	454	ASN
2	FB	460	LYS
2	FB	462	GLN
2	FB	470	LEU
2	FB	472	SER
2	FB	474	SER
2	FB	476	LEU
2	FB	477	ASP
2	FB	479	GLN
2	FB	491	ILE
2	FB	497	ILE
2	FB	498	SER
2	FB	505	ARG
2	FB	507	SER
2	FB	515	THR
2	FB	519	LYS
2	FB	520	LEU
2	FB	521	LEU
2	FB	523	GLU
2	FB	537	SER
2	FB	541	LEU
2	FB	554	GLN
2	FB	561	ILE
2	FB	577	PHE
2	FB	583	LEU

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Mol	Chain	Res	Type
2	FB	585	CYS
2	FB	588	ILE
2	FB	593	ILE
2	FB	602	LYS
2	FB	604	ILE
2	FB	616	LYS
2	FB	617	THR
2	FB	622	ILE
2	FB	624	LEU
2	FB	626	ILE
2	FB	636	GLN
2	FB	642	LEU
2	FB	653	VAL
2	FB	654	ARG
2	FB	658	LEU
2	FB	660	LYS
2	FB	661	GLU
2	FB	663	ILE
2	FB	670	VAL
2	FB	674	ILE
2	FB	683	ASN
2	FB	687	THR
2	FB	696	ILE
2	FB	698	SER
2	FB	699	ILE
2	FB	703	LEU
2	FB	711	GLN
2	FB	714	ARG
2	FB	716	MET
2	FB	724	GLN
2	FB	725	THR
2	FB	731	VAL
2	FB	733	LEU
2	FB	737	SER
2	FB	738	ASP
2	FB	749	THR
2	FB	751	ILE
2	FB	752	VAL
2	FB	756	LEU
2	FB	762	MET
2	FB	772	VAL
2	FB	773	VAL

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Mol	Chain	Res	Type
2	FB	777	SER
2	FB	779	THR
2	FB	782	ASP
2	FB	783	MET
2	FB	785	ASP
2	FB	787	MET
2	FB	789	ILE
2	FB	802	THR
2	FB	806	THR
2	FB	808	LYS
2	FB	809	VAL
2	FB	811	LEU
2	FB	814	ASN
2	FB	823	GLN
2	FB	824	HIS
2	FB	829	ASN
2	FB	830	ASP
2	FB	833	PRO
2	FB	835	GLU
2	FB	837	LEU
2	FB	838	GLU
2	FB	840	LEU
2	FB	842	GLU
2	FB	843	ASP
2	FB	845	LEU
2	FB	848	ILE
2	FB	852	VAL
2	FB	858	ILE
2	FB	865	THR
2	FB	870	LYS
2	FB	871	ILE
2	FB	873	THR
2	FB	876	SER
2	FB	882	ILE
2	FB	883	GLU
2	FB	887	LEU
2	FB	888	ILE
2	FB	891	GLU
2	FB	892	SER
2	FB	895	PHE
2	FB	896	GLN
2	FB	897	GLU

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Mol	Chain	Res	Type
2	FB	898	LEU
2	FB	903	ILE
2	FB	904	LYS
2	FB	905	TYR
2	FB	907	ILE
2	FB	910	THR
2	FB	919	SER
2	FB	927	CYS
2	FB	933	THR
2	FB	944	GLN
2	FB	947	ILE
2	FB	949	ILE
2	FB	958	MET
2	FB	960	ILE
2	FB	962	MET
2	FB	965	GLU
2	FB	967	LEU
2	FB	977	ILE
2	FB	985	ILE
2	FB	988	GLU
2	FB	991	THR
2	FB	999	GLN
2	FB	1015	SER
2	FB	1018	THR
2	FB	1026	ILE
2	FB	1028	VAL
2	FB	1030	VAL
2	FB	1031	VAL
2	FB	1033	TYR
2	FB	1034	GLN
2	FB	1036	LEU
2	FB	1039	MET
2	FB	1040	VAL
2	FB	1044	PHE
2	FB	1045	GLN
2	FB	1047	ARG
2	FB	1058	GLN
2	FB	1070	ARG
2	FB	1075	GLU
2	FB	1077	ASP
2	FB	1085	SER
2	FB	1091	ARG

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Mol	Chain	Res	Type
2	FB	1092	LEU
2	FB	1093	LEU
2	FB	1094	ASN
2	FB	1102	SER
2	FB	1103	VAL
2	FB	1109	SER
2	FB	1110	ILE
2	FB	1111	LEU
2	FB	1112	THR
2	FB	1119	ARG
2	FB	1120	ILE
2	FB	1127	CYS
2	FB	1133	MET
2	FB	1136	GLU
2	FB	1140	LYS
2	FB	1142	LEU
2	FB	1150	LYS
2	FB	1151	ILE
2	FB	1153	ILE
2	FB	1156	SER
2	FB	1157	GLN
2	FB	1163	GLN
2	FB	1168	VAL
2	FB	1173	THR
2	FB	1174	THR
2	FB	1181	VAL
2	FB	1182	LEU
2	FB	1185	LEU
2	FB	1189	LEU
2	FB	1190	SER
2	FB	1198	TYR
2	FB	1200	VAL
2	FB	1201	GLU
3	FC	32	ASN
3	FC	45	SER
3	FC	48	ASP
3	FC	51	GLU
3	FC	57	ILE
3	FC	59	ILE
3	FC	61	THR
3	FC	68	ARG
3	FC	69	ARG

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Mol	Chain	Res	Type
3	FC	71	MET
3	FC	72	ILE
3	FC	78	VAL
3	FC	82	TYR
3	FC	86	PHE
3	FC	97	LEU
3	FC	101	ILE
3	FC	118	SER
3	FC	122	ASP
3	FC	128	ASP
3	FC	129	GLU
3	FC	131	THR
3	FC	132	ILE
3	FC	134	LEU
3	FC	136	LEU
3	FC	139	LYS
3	FC	151	THR
3	FC	168	LYS
3	FC	177	THR
3	FC	185	VAL
3	FC	193	LEU
3	FC	196	LEU
3	FC	202	ILE
3	FC	208	CYS
3	FC	209	ILE
3	FC	210	LEU
3	FC	222	VAL
3	FC	224	THR
3	FC	226	SER
3	FC	235	ILE
3	FC	237	GLN
3	FC	262	SER
3	FC	263	ASP
3	FC	264	GLU
3	FC	267	VAL
3	FC	274	THR
3	FC	275	VAL
3	FC	277	ARG
3	FC	287	ASP
3	FC	289	VAL
3	FC	291	LEU
3	FC	294	VAL

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Mol	Chain	Res	Type
3	FC	303	GLU
3	FC	313	ILE
3	FC	321	LEU
3	FC	324	LYS
3	FC	334	THR
4	FD	12	THR
4	FD	14	THR
4	FD	20	VAL
4	FD	80	THR
4	FD	82	LEU
4	FD	87	SER
4	FD	88	GLN
4	FD	94	ARG
4	FD	99	LEU
5	FE	4	GLU
5	FE	6	GLU
5	FE	8	ASN
5	FE	9	ILE
5	FE	10	SER
5	FE	31	THR
5	FE	34	GLU
5	FE	41	ASP
5	FE	57	MET
5	FE	60	PHE
5	FE	61	GLN
5	FE	66	GLU
5	FE	70	SER
5	FE	71	LYS
5	FE	78	LEU
5	FE	81	GLU
5	FE	90	VAL
5	FE	92	THR
5	FE	93	MET
5	FE	106	GLN
5	FE	107	THR
5	FE	123	LEU
5	FE	126	SER
5	FE	127	ILE
5	FE	131	THR
5	FE	141	VAL
5	FE	142	VAL
5	FE	144	ILE

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Mol	Chain	Res	Type
5	FE	148	GLU
5	FE	150	VAL
5	FE	153	HIS
5	FE	166	LYS
5	FE	172	GLU
5	FE	173	SER
5	FE	175	LEU
5	FE	177	ARG
5	FE	178	ILE
5	FE	186	LEU
5	FE	192	ARG
5	FE	196	VAL
5	FE	201	LYS
5	FE	202	SER
5	FE	207	ARG
5	FE	213	ILE
6	FF	56	GLU
6	FF	59	GLN
6	FF	77	ASP
6	FF	82	THR
6	FF	93	ILE
6	FF	96	THR
6	FF	99	LEU
6	FF	109	VAL
6	FF	110	ASP
6	FF	118	LEU
6	FF	130	ILE
6	FF	148	VAL
6	FF	149	GLU
6	FF	151	LEU
6	FF	152	ILE
6	FF	154	ASP
7	FG	10	ASN
7	FG	11	ARG
7	FG	15	ARG
7	FG	16	PHE
7	FG	19	LYS
7	FG	20	HIS
7	FG	24	VAL
7	FG	28	ILE
7	FG	29	ASP
7	FG	34	THR

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Mol	Chain	Res	Type
7	FG	35	SER
7	FG	37	CYS
7	FG	38	ILE
7	FG	39	VAL
7	FG	43	ILE
7	FG	45	LEU
7	FG	54	LEU
7	FG	64	GLN
7	FG	70	VAL
7	FG	76	LYS
7	FG	77	VAL
7	FG	80	VAL
7	FG	81	VAL
7	FG	95	LEU
7	FG	97	LYS
7	FG	105	ILE
7	FG	106	LYS
7	FG	111	THR
7	FG	116	THR
7	FG	120	VAL
7	FG	122	LEU
7	FG	126	GLN
7	FG	128	GLN
7	FG	132	VAL
7	FG	139	ILE
7	FG	141	SER
7	FG	147	LEU
7	FG	148	LEU
7	FG	149	ILE
7	FG	162	ILE
7	FG	164	VAL
7	FG	165	ASP
7	FG	169	VAL
7	FG	170	HIS
7	FG	172	ASP
7	FG	173	VAL
7	FG	174	GLU
7	FG	219	ASP
7	FG	221	ASN
7	FG	226	ASP
7	FG	232	THR
7	FG	233	VAL

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Mol	Chain	Res	Type
7	FG	239	THR
7	FG	243	VAL
7	FG	248	THR
7	FG	249	LEU
7	FG	250	ILE
7	FG	251	SER
8	FH	5	LEU
8	FH	7	ASP
8	FH	8	ASP
8	FH	9	ILE
8	FH	13	SER
8	FH	25	ARG
8	FH	30	SER
8	FH	35	GLN
8	FH	38	LEU
8	FH	42	ILE
8	FH	45	GLU
8	FH	46	LEU
8	FH	54	SER
8	FH	55	LEU
8	FH	57	VAL
8	FH	59	ILE
8	FH	63	LEU
8	FH	76	THR
8	FH	80	ARG
8	FH	83	GLN
8	FH	87	ARG
8	FH	94	ASP
8	FH	107	VAL
8	FH	108	SER
8	FH	112	ILE
8	FH	114	VAL
8	FH	121	LEU
8	FH	122	LEU
8	FH	123	MET
8	FH	124	ARG
8	FH	133	ASN
8	FH	137	GLN
8	FH	143	LEU
8	FH	145	ARG
9	FI	3	VAL
9	FI	8	ILE

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Mol	Chain	Res	Type
9	FI	11	LEU
9	FI	15	ASP
9	FI	31	SER
9	FI	32	GLN
9	FI	42	PHE
9	FI	45	LEU
9	FI	47	VAL
9	FI	49	THR
9	FI	66	VAL
9	FI	68	LYS
9	FI	72	LYS
9	FI	73	LYS
9	FI	93	GLU
9	FI	94	MET
9	FI	98	THR
9	FI	100	GLN
9	FI	102	ARG
9	FI	106	GLU
9	FI	110	VAL
9	FI	111	PHE
9	FI	120	LYS
9	FI	122	ARG
9	FI	123	THR
10	FJ	1	MET
10	FJ	3	VAL
10	FJ	5	VAL
10	FJ	12	LYS
10	FJ	13	VAL
10	FJ	14	VAL
10	FJ	20	SER
10	FJ	23	ASN
10	FJ	27	GLU
10	FJ	34	THR
10	FJ	38	ARG
10	FJ	48	ARG
10	FJ	49	MET
10	FJ	58	GLU
10	FJ	59	LYS
10	FJ	66	LEU
10	FJ	67	GLU
10	FJ	68	LYS
11	FK	45	GLU

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Mol	Chain	Res	Type
11	FK	51	THR
11	FK	56	GLU
11	FK	59	THR
11	FK	62	SER
11	FK	63	PHE
11	FK	65	ILE
11	FK	66	VAL
11	FK	68	GLU
11	FK	71	THR
11	FK	72	LEU
11	FK	77	ARG
11	FK	89	CYS
11	FK	93	ILE
11	FK	98	GLU
11	FK	99	ASN
11	FK	103	ILE
11	FK	107	THR
11	FK	111	THR
11	FK	112	THR
11	FK	117	LEU
11	FK	125	MET
11	FK	128	CYS
11	FK	134	LYS
11	FK	136	THR
11	FK	139	ILE
11	FK	142	MET
12	FL	27	LEU
12	FL	28	LYS
12	FL	35	SER
12	FL	36	SER
12	FL	38	LEU
12	FL	49	LYS
12	FL	53	HIS
12	FL	55	ILE
12	FL	57	LEU
12	FL	58	LYS
12	FL	65	VAL
12	FL	66	GLN
12	FL	68	GLU
13	FM	7	VAL
13	FM	9	GLU
13	FM	10	ILE

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Mol	Chain	Res	Type
13	FM	12	ILE
13	FM	16	GLN
13	FM	18	GLN
13	FM	20	SER
13	FM	25	SER
13	FM	28	LYS
13	FM	36	THR
13	FM	42	LYS
13	FM	44	LYS
13	FM	54	HIS
13	FM	56	GLU
13	FM	57	ASN
13	FM	58	GLU
13	FM	60	LEU
13	FM	65	TYR
13	FM	68	SER
13	FM	70	SER
13	FM	78	VAL
13	FM	85	LYS
13	FM	88	ILE
13	FM	95	VAL
13	FM	97	VAL
13	FM	98	SER
13	FM	100	VAL
13	FM	104	SER
13	FM	109	ARG
14	FN	25	ILE
14	FN	33	LYS
14	FN	37	ASN
14	FN	40	LEU
14	FN	50	GLN
14	FN	53	VAL
14	FN	56	ILE
14	FN	58	PHE
14	FN	64	ILE
14	FN	70	LEU
14	FN	72	VAL
14	FN	75	GLU
14	FN	78	THR
14	FN	79	THR
14	FN	80	MET
14	FN	81	THR

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Mol	Chain	Res	Type
14	FN	85	HIS
14	FN	89	ILE
14	FN	90	MET
14	FN	98	SER
14	FN	106	ASN
14	FN	107	MET
14	FN	108	THR
14	FN	114	GLU
14	FN	118	SER
14	FN	123	SER
14	FN	124	THR
14	FN	126	LYS
14	FN	127	ASP
14	FN	138	SER
14	FN	139	VAL
14	FN	141	GLU
14	FN	148	ILE
14	FN	151	SER
14	FN	152	LYS
14	FN	155	VAL
14	FN	157	ARG
14	FN	160	VAL
14	FN	163	VAL
14	FN	171	PHE
14	FN	179	ASP
7	FO	265	SER
7	FO	268	GLU
7	FO	269	SER
7	FO	272	ILE
7	FO	274	SER
7	FO	275	ASN
7	FO	277	LYS
7	FO	279	VAL
7	FO	280	PHE
7	FO	285	SER
7	FO	290	GLU
7	FO	293	LYS
7	FO	300	VAL
7	FO	301	LYS
7	FO	302	GLU
7	FO	308	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (590)

such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	43	HIS
1	AA	76	GLN
1	AA	179	ASN
1	AA	470	HIS
1	AA	521	GLN
1	AA	537	GLN
1	AA	553	GLN
1	AA	590	ASN
1	AA	596	HIS
1	AA	639	GLN
1	AA	649	ASN
1	AA	656	GLN
1	AA	748	ASN
1	AA	785	GLN
1	AA	942	GLN
1	AA	1081	ASN
1	AA	1113	HIS
1	AA	1116	GLN
1	AA	1141	GLN
1	AA	1162	ASN
1	AA	1203	ASN
1	AA	1250	GLN
1	AA	1293	HIS
1	AA	1320	GLN
1	AA	1443	GLN
1	AA	1447	GLN
1	AA	1514	ASN
1	AA	1544	ASN
1	AA	1620	GLN
1	AA	1633	GLN
1	AA	1647	ASN
2	AB	39	GLN
2	AB	45	HIS
2	AB	128	GLN
2	AB	182	GLN
2	AB	224	ASN
2	AB	235	GLN
2	AB	251	HIS
2	AB	254	ASN
2	AB	351	GLN
2	AB	393	ASN
2	AB	422	GLN

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Mol	Chain	Res	Type
2	AB	427	GLN
2	AB	469	ASN
2	AB	473	GLN
2	AB	543	ASN
2	AB	555	GLN
2	AB	636	GLN
2	AB	679	GLN
2	AB	695	ASN
2	AB	720	GLN
2	AB	724	GLN
2	AB	824	HIS
2	AB	886	ASN
2	AB	896	GLN
2	AB	921	HIS
2	AB	944	GLN
2	AB	952	HIS
2	AB	1053	ASN
2	AB	1082	HIS
2	AB	1115	GLN
2	AB	1163	GLN
2	AB	1171	ASN
3	AC	32	ASN
3	AC	53	ASN
3	AC	58	ASN
3	AC	137	ASN
3	AC	200	GLN
3	AC	323	ASN
4	AD	26	GLN
5	AE	5	ASN
5	AE	99	HIS
5	AE	179	GLN
6	AF	60	GLN
6	AF	104	ASN
7	AG	59	GLN
7	AG	64	GLN
7	AG	67	ASN
7	AG	121	ASN
7	AG	150	HIS
8	AH	3	ASN
8	AH	52	GLN
8	AH	133	ASN
8	AH	134	ASN

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Mol	Chain	Res	Type
9	AI	88	GLN
9	AI	97	HIS
9	AI	124	ASN
10	AJ	53	HIS
11	AK	102	ASN
11	AK	118	GLN
13	AM	16	GLN
13	AM	57	ASN
13	AM	82	ASN
14	AN	37	ASN
14	AN	50	GLN
14	AN	106	ASN
14	AN	132	GLN
14	AN	170	HIS
7	AO	275	ASN
7	AO	288	ASN
7	AO	304	ASN
1	BA	43	HIS
1	BA	76	GLN
1	BA	179	ASN
1	BA	470	HIS
1	BA	521	GLN
1	BA	537	GLN
1	BA	553	GLN
1	BA	596	HIS
1	BA	639	GLN
1	BA	656	GLN
1	BA	671	GLN
1	BA	748	ASN
1	BA	880	GLN
1	BA	942	GLN
1	BA	1081	ASN
1	BA	1116	GLN
1	BA	1141	GLN
1	BA	1162	ASN
1	BA	1191	GLN
1	BA	1203	ASN
1	BA	1250	GLN
1	BA	1293	HIS
1	BA	1299	ASN
1	BA	1447	GLN
1	BA	1544	ASN

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Mol	Chain	Res	Type
1	BA	1633	GLN
1	BA	1647	ASN
2	BB	39	GLN
2	BB	45	HIS
2	BB	50	ASN
2	BB	93	ASN
2	BB	128	GLN
2	BB	182	GLN
2	BB	224	ASN
2	BB	235	GLN
2	BB	251	HIS
2	BB	254	ASN
2	BB	351	GLN
2	BB	393	ASN
2	BB	422	GLN
2	BB	427	GLN
2	BB	469	ASN
2	BB	473	GLN
2	BB	543	ASN
2	BB	555	GLN
2	BB	636	GLN
2	BB	669	GLN
2	BB	720	GLN
2	BB	748	GLN
2	BB	886	ASN
2	BB	896	GLN
2	BB	921	HIS
2	BB	944	GLN
2	BB	952	HIS
2	BB	1006	ASN
2	BB	1053	ASN
2	BB	1082	HIS
2	BB	1115	GLN
2	BB	1171	ASN
3	BC	32	ASN
3	BC	53	ASN
3	BC	58	ASN
3	BC	137	ASN
3	BC	323	ASN
4	BD	26	GLN
4	BD	88	GLN
5	BE	5	ASN

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Mol	Chain	Res	Type
5	BE	99	HIS
5	BE	147	HIS
5	BE	179	GLN
6	BF	60	GLN
7	BG	59	GLN
7	BG	67	ASN
7	BG	121	ASN
7	BG	150	HIS
8	BH	131	ASN
8	BH	133	ASN
9	BI	88	GLN
10	BJ	53	HIS
11	BK	99	ASN
11	BK	102	ASN
13	BM	57	ASN
13	BM	82	ASN
13	BM	107	ASN
14	BN	37	ASN
14	BN	132	GLN
1	CA	43	HIS
1	CA	76	GLN
1	CA	179	ASN
1	CA	378	HIS
1	CA	431	GLN
1	CA	435	ASN
1	CA	470	HIS
1	CA	537	GLN
1	CA	560	GLN
1	CA	596	HIS
1	CA	636	HIS
1	CA	649	ASN
1	CA	656	GLN
1	CA	671	GLN
1	CA	748	ASN
1	CA	1081	ASN
1	CA	1113	HIS
1	CA	1116	GLN
1	CA	1141	GLN
1	CA	1162	ASN
1	CA	1191	GLN
1	CA	1250	GLN
1	CA	1293	HIS

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Mol	Chain	Res	Type
1	CA	1320	GLN
1	CA	1447	GLN
1	CA	1620	GLN
1	CA	1633	GLN
1	CA	1647	ASN
2	CB	10	GLN
2	CB	39	GLN
2	CB	45	HIS
2	CB	128	GLN
2	CB	224	ASN
2	CB	235	GLN
2	CB	251	HIS
2	CB	254	ASN
2	CB	328	GLN
2	CB	351	GLN
2	CB	393	ASN
2	CB	422	GLN
2	CB	427	GLN
2	CB	469	ASN
2	CB	473	GLN
2	CB	532	HIS
2	CB	543	ASN
2	CB	555	GLN
2	CB	587	GLN
2	CB	636	GLN
2	CB	720	GLN
2	CB	724	GLN
2	CB	824	HIS
2	CB	886	ASN
2	CB	893	ASN
2	CB	921	HIS
2	CB	944	GLN
2	CB	1006	ASN
2	CB	1053	ASN
2	CB	1082	HIS
2	CB	1115	GLN
2	CB	1171	ASN
3	CC	32	ASN
3	CC	53	ASN
3	CC	58	ASN
3	CC	137	ASN
3	CC	200	GLN

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Mol	Chain	Res	Type
3	CC	301	ASN
3	CC	323	ASN
4	CD	26	GLN
4	CD	88	GLN
5	CE	5	ASN
5	CE	99	HIS
5	CE	106	GLN
5	CE	146	HIS
5	CE	179	GLN
6	CF	60	GLN
6	CF	104	ASN
7	CG	59	GLN
7	CG	64	GLN
7	CG	67	ASN
7	CG	75	ASN
7	CG	119	HIS
7	CG	121	ASN
7	CG	150	HIS
8	CH	52	GLN
8	CH	131	ASN
8	CH	133	ASN
9	CI	88	GLN
9	CI	97	HIS
9	CI	124	ASN
10	CJ	53	HIS
11	CK	64	GLN
11	CK	99	ASN
11	CK	102	ASN
11	CK	118	GLN
13	CM	16	GLN
13	CM	57	ASN
13	CM	82	ASN
14	CN	37	ASN
14	CN	85	HIS
14	CN	132	GLN
7	CO	266	GLN
7	CO	292	HIS
1	DA	43	HIS
1	DA	76	GLN
1	DA	179	ASN
1	DA	521	GLN
1	DA	525	ASN

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Mol	Chain	Res	Type
1	DA	537	GLN
1	DA	538	ASN
1	DA	553	GLN
1	DA	590	ASN
1	DA	596	HIS
1	DA	656	GLN
1	DA	671	GLN
1	DA	748	ASN
1	DA	767	ASN
1	DA	880	GLN
1	DA	942	GLN
1	DA	1081	ASN
1	DA	1113	HIS
1	DA	1141	GLN
1	DA	1162	ASN
1	DA	1180	ASN
1	DA	1191	GLN
1	DA	1203	ASN
1	DA	1250	GLN
1	DA	1293	HIS
1	DA	1320	GLN
1	DA	1443	GLN
1	DA	1447	GLN
1	DA	1544	ASN
1	DA	1620	GLN
1	DA	1633	GLN
1	DA	1647	ASN
2	DB	10	GLN
2	DB	45	HIS
2	DB	50	ASN
2	DB	93	ASN
2	DB	128	GLN
2	DB	182	GLN
2	DB	224	ASN
2	DB	235	GLN
2	DB	251	HIS
2	DB	254	ASN
2	DB	328	GLN
2	DB	351	GLN
2	DB	393	ASN
2	DB	422	GLN
2	DB	427	GLN

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Mol	Chain	Res	Type
2	DB	469	ASN
2	DB	473	GLN
2	DB	543	ASN
2	DB	555	GLN
2	DB	636	GLN
2	DB	673	ASN
2	DB	720	GLN
2	DB	824	HIS
2	DB	886	ASN
2	DB	921	HIS
2	DB	944	GLN
2	DB	952	HIS
2	DB	975	HIS
2	DB	1053	ASN
2	DB	1115	GLN
2	DB	1171	ASN
2	DB	1199	ASN
3	DC	32	ASN
3	DC	53	ASN
3	DC	58	ASN
3	DC	137	ASN
3	DC	200	GLN
3	DC	323	ASN
4	DD	26	GLN
4	DD	88	GLN
5	DE	5	ASN
5	DE	99	HIS
5	DE	179	GLN
6	DF	60	GLN
6	DF	104	ASN
7	DG	26	ASN
7	DG	64	GLN
7	DG	67	ASN
7	DG	75	ASN
7	DG	121	ASN
7	DG	150	HIS
8	DH	133	ASN
9	DI	88	GLN
9	DI	97	HIS
9	DI	100	GLN
9	DI	124	ASN
10	DJ	53	HIS

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Mol	Chain	Res	Type
11	DK	102	ASN
11	DK	118	GLN
13	DM	57	ASN
13	DM	82	ASN
13	DM	107	ASN
14	DN	37	ASN
14	DN	50	GLN
14	DN	51	GLN
14	DN	132	GLN
14	DN	170	HIS
7	DO	275	ASN
7	DO	304	ASN
1	EA	43	HIS
1	EA	76	GLN
1	EA	179	ASN
1	EA	378	HIS
1	EA	431	GLN
1	EA	435	ASN
1	EA	470	HIS
1	EA	489	ASN
1	EA	521	GLN
1	EA	537	GLN
1	EA	590	ASN
1	EA	596	HIS
1	EA	617	HIS
1	EA	649	ASN
1	EA	656	GLN
1	EA	671	GLN
1	EA	748	ASN
1	EA	767	ASN
1	EA	880	GLN
1	EA	942	GLN
1	EA	1081	ASN
1	EA	1141	GLN
1	EA	1162	ASN
1	EA	1191	GLN
1	EA	1250	GLN
1	EA	1293	HIS
1	EA	1320	GLN
1	EA	1443	GLN
1	EA	1447	GLN
1	EA	1514	ASN

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Mol	Chain	Res	Type
1	EA	1620	GLN
1	EA	1633	GLN
1	EA	1647	ASN
2	EB	39	GLN
2	EB	45	HIS
2	EB	50	ASN
2	EB	128	GLN
2	EB	147	ASN
2	EB	224	ASN
2	EB	235	GLN
2	EB	251	HIS
2	EB	254	ASN
2	EB	328	GLN
2	EB	393	ASN
2	EB	422	GLN
2	EB	427	GLN
2	EB	469	ASN
2	EB	473	GLN
2	EB	499	HIS
2	EB	543	ASN
2	EB	555	GLN
2	EB	636	GLN
2	EB	669	GLN
2	EB	679	GLN
2	EB	720	GLN
2	EB	823	GLN
2	EB	824	HIS
2	EB	886	ASN
2	EB	893	ASN
2	EB	921	HIS
2	EB	944	GLN
2	EB	975	HIS
2	EB	1006	ASN
2	EB	1008	HIS
2	EB	1053	ASN
2	EB	1115	GLN
2	EB	1163	GLN
2	EB	1171	ASN
3	EC	32	ASN
3	EC	53	ASN
3	EC	58	ASN
3	EC	137	ASN

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Mol	Chain	Res	Type
3	EC	301	ASN
3	EC	323	ASN
4	ED	26	GLN
4	ED	88	GLN
5	EE	5	ASN
5	EE	99	HIS
5	EE	174	GLN
5	EE	179	GLN
6	EF	60	GLN
6	EF	104	ASN
7	EG	59	GLN
7	EG	64	GLN
7	EG	67	ASN
7	EG	75	ASN
7	EG	119	HIS
7	EG	121	ASN
8	EH	133	ASN
9	EI	88	GLN
9	EI	97	HIS
9	EI	124	ASN
10	EJ	53	HIS
11	EK	99	ASN
11	EK	102	ASN
11	EK	118	GLN
13	EM	16	GLN
13	EM	57	ASN
13	EM	82	ASN
14	EN	37	ASN
14	EN	50	GLN
14	EN	132	GLN
7	EO	304	ASN
1	FA	43	HIS
1	FA	76	GLN
1	FA	179	ASN
1	FA	336	GLN
1	FA	344	ASN
1	FA	378	HIS
1	FA	470	HIS
1	FA	521	GLN
1	FA	537	GLN
1	FA	590	ASN
1	FA	596	HIS

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Mol	Chain	Res	Type
1	FA	617	HIS
1	FA	639	GLN
1	FA	656	GLN
1	FA	671	GLN
1	FA	748	ASN
1	FA	767	ASN
1	FA	880	GLN
1	FA	942	GLN
1	FA	1081	ASN
1	FA	1141	GLN
1	FA	1162	ASN
1	FA	1191	GLN
1	FA	1203	ASN
1	FA	1250	GLN
1	FA	1293	HIS
1	FA	1443	GLN
1	FA	1447	GLN
1	FA	1544	ASN
1	FA	1633	GLN
1	FA	1647	ASN
2	FB	45	HIS
2	FB	50	ASN
2	FB	128	GLN
2	FB	182	GLN
2	FB	183	HIS
2	FB	197	ASN
2	FB	235	GLN
2	FB	254	ASN
2	FB	351	GLN
2	FB	393	ASN
2	FB	422	GLN
2	FB	427	GLN
2	FB	469	ASN
2	FB	473	GLN
2	FB	543	ASN
2	FB	555	GLN
2	FB	636	GLN
2	FB	720	GLN
2	FB	724	GLN
2	FB	824	HIS
2	FB	886	ASN
2	FB	893	ASN

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Mol	Chain	Res	Type
2	FB	896	GLN
2	FB	921	HIS
2	FB	952	HIS
2	FB	975	HIS
2	FB	1053	ASN
2	FB	1082	HIS
2	FB	1115	GLN
2	FB	1171	ASN
2	FB	1199	ASN
3	FC	32	ASN
3	FC	53	ASN
3	FC	137	ASN
3	FC	323	ASN
4	FD	26	GLN
4	FD	88	GLN
5	FE	5	ASN
5	FE	99	HIS
5	FE	106	GLN
5	FE	146	HIS
5	FE	179	GLN
6	FF	60	GLN
6	FF	104	ASN
7	FG	64	GLN
7	FG	119	HIS
7	FG	121	ASN
7	FG	150	HIS
8	FH	3	ASN
8	FH	52	GLN
8	FH	133	ASN
9	FI	88	GLN
9	FI	97	HIS
9	FI	124	ASN
10	FJ	53	HIS
11	FK	102	ASN
11	FK	118	GLN
13	FM	16	GLN
13	FM	57	ASN
13	FM	82	ASN
13	FM	107	ASN
14	FN	37	ASN
14	FN	50	GLN
14	FN	132	GLN

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Mol	Chain	Res	Type
7	FO	275	ASN
7	FO	313	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 42 ligands modelled in this entry, 42 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	EA	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	EA	1261:VAL	C	1262:LEU	N	2.28

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	AA	1484/1664 (89%)	-0.32	8 (0%)	87	77	174, 197, 249, 308	0
1	BA	1462/1664 (87%)	-0.19	10 (0%)	84	73	242, 262, 287, 314	0
1	CA	1483/1664 (89%)	-0.36	2 (0%)	92	87	143, 164, 201, 253	0
1	DA	1483/1664 (89%)	-0.30	8 (0%)	87	77	147, 170, 215, 278	0
1	EA	1484/1664 (89%)	-0.34	7 (0%)	87	77	149, 171, 207, 250	0
1	FA	1484/1664 (89%)	-0.36	4 (0%)	90	81	142, 160, 203, 262	0
2	AB	1154/1203 (95%)	-0.30	2 (0%)	91	84	179, 212, 250, 276	0
2	BB	1153/1203 (95%)	-0.26	3 (0%)	90	81	233, 245, 265, 279	0
2	CB	1170/1203 (97%)	-0.35	3 (0%)	90	81	144, 169, 196, 227	0
2	DB	1165/1203 (96%)	-0.34	1 (0%)	92	87	148, 169, 191, 222	0
2	EB	1164/1203 (96%)	-0.35	2 (0%)	91	84	148, 162, 188, 225	0
2	FB	1165/1203 (96%)	-0.34	1 (0%)	92	87	142, 164, 191, 212	0
3	AC	304/335 (90%)	-0.39	1 (0%)	90	81	190, 209, 237, 253	0
3	BC	304/335 (90%)	-0.19	0	100	100	248, 278, 311, 332	0
3	CC	304/335 (90%)	-0.31	0	100	100	162, 175, 191, 207	0
3	DC	304/335 (90%)	-0.31	2 (0%)	84	73	167, 182, 197, 206	0
3	EC	304/335 (90%)	-0.38	3 (0%)	79	67	158, 173, 190, 203	0
3	FC	304/335 (90%)	-0.33	0	100	100	154, 170, 187, 198	0
4	AD	58/137 (42%)	-0.17	0	100	100	207, 243, 266, 270	0
4	BD	58/137 (42%)	-0.19	1 (1%)	69	58	262, 281, 301, 303	0
4	CD	58/137 (42%)	-0.25	0	100	100	171, 184, 195, 200	0
4	DD	58/137 (42%)	-0.34	0	100	100	177, 190, 204, 207	0
4	ED	58/137 (42%)	-0.37	0	100	100	185, 202, 214, 215	0
4	FD	58/137 (42%)	-0.35	0	100	100	162, 186, 211, 212	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
5	AE	215/215 (100%)	-0.35	2 (0%) 81 69	186, 214, 234, 243	0
5	BE	215/215 (100%)	-0.20	2 (0%) 81 69	255, 281, 296, 307	0
5	CE	215/215 (100%)	-0.40	0 100 100	152, 178, 194, 206	0
5	DE	215/215 (100%)	-0.32	0 100 100	156, 187, 209, 222	0
5	EE	215/215 (100%)	-0.34	0 100 100	158, 189, 211, 228	0
5	FE	215/215 (100%)	-0.34	0 100 100	149, 179, 199, 212	0
6	AF	98/155 (63%)	-0.35	0 100 100	181, 190, 240, 243	0
6	BF	98/155 (63%)	-0.10	1 (1%) 79 67	251, 265, 299, 302	0
6	CF	99/155 (63%)	-0.37	0 100 100	148, 157, 185, 188	0
6	DF	99/155 (63%)	-0.32	0 100 100	152, 162, 201, 207	0
6	EF	99/155 (63%)	-0.32	0 100 100	154, 168, 211, 214	0
6	FF	99/155 (63%)	-0.29	0 100 100	144, 152, 209, 213	0
7	AG	202/326 (61%)	-0.23	1 (0%) 87 77	199, 249, 286, 305	0
7	AO	52/326 (15%)	-0.31	0 100 100	209, 235, 287, 294	0
7	BG	195/326 (59%)	-0.27	0 100 100	259, 290, 311, 319	0
7	BO	51/326 (15%)	-0.43	0 100 100	244, 259, 301, 312	0
7	CG	202/326 (61%)	-0.34	2 (0%) 79 67	171, 186, 215, 221	0
7	CO	50/326 (15%)	-0.42	0 100 100	159, 187, 235, 247	0
7	DG	202/326 (61%)	-0.24	0 100 100	165, 205, 241, 251	0
7	DO	52/326 (15%)	-0.31	0 100 100	167, 197, 258, 276	0
7	EG	202/326 (61%)	-0.28	2 (0%) 79 67	181, 209, 227, 234	0
7	EO	52/326 (15%)	-0.31	0 100 100	168, 190, 233, 246	0
7	FG	202/326 (61%)	-0.22	2 (0%) 79 67	158, 197, 226, 232	0
7	FO	52/326 (15%)	-0.43	0 100 100	163, 191, 241, 257	0
8	AH	132/146 (90%)	-0.31	0 100 100	180, 190, 197, 206	0
8	BH	131/146 (89%)	-0.23	0 100 100	282, 313, 328, 335	0
8	CH	131/146 (89%)	-0.37	1 (0%) 82 71	162, 175, 183, 187	0
8	DH	134/146 (91%)	-0.30	1 (0%) 84 73	167, 182, 196, 231	0
8	EH	134/146 (91%)	-0.36	0 100 100	164, 185, 201, 209	0
8	FH	134/146 (91%)	-0.32	1 (0%) 84 73	151, 162, 173, 203	0
9	AI	124/125 (99%)	-0.17	1 (0%) 82 71	189, 209, 254, 260	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
9	BI	97/125 (77%)	-0.14	1 (1%) 79 67	254, 264, 300, 307	0
9	CI	124/125 (99%)	-0.42	0 100 100	162, 179, 201, 206	0
9	DI	124/125 (99%)	-0.27	0 100 100	166, 187, 207, 214	0
9	EI	117/125 (93%)	-0.25	0 100 100	160, 177, 203, 235	0
9	FI	124/125 (99%)	-0.24	0 100 100	159, 181, 203, 211	0
10	AJ	68/70 (97%)	-0.18	0 100 100	194, 209, 227, 240	0
10	BJ	69/70 (98%)	-0.11	1 (1%) 73 61	245, 263, 275, 279	0
10	CJ	68/70 (97%)	-0.41	0 100 100	162, 172, 183, 195	0
10	DJ	69/70 (98%)	-0.28	1 (1%) 73 61	164, 174, 184, 191	0
10	EJ	68/70 (97%)	-0.35	1 (1%) 72 59	155, 165, 177, 180	0
10	FJ	68/70 (97%)	-0.33	0 100 100	155, 165, 179, 186	0
11	AK	101/142 (71%)	-0.43	0 100 100	186, 193, 213, 220	0
11	BK	100/142 (70%)	-0.35	0 100 100	259, 288, 305, 311	0
11	CK	101/142 (71%)	-0.42	0 100 100	157, 168, 182, 190	0
11	DK	101/142 (71%)	-0.37	0 100 100	161, 175, 190, 197	0
11	EK	100/142 (70%)	-0.49	0 100 100	154, 168, 182, 190	0
11	FK	100/142 (70%)	-0.41	0 100 100	150, 159, 174, 180	0
12	AL	44/70 (62%)	-0.44	0 100 100	201, 238, 253, 256	0
12	BL	44/70 (62%)	-0.16	0 100 100	241, 248, 255, 256	0
12	CL	44/70 (62%)	-0.35	0 100 100	163, 184, 192, 193	0
12	DL	44/70 (62%)	-0.38	0 100 100	167, 184, 191, 195	0
12	EL	44/70 (62%)	-0.42	0 100 100	158, 176, 188, 191	0
12	FL	44/70 (62%)	-0.46	0 100 100	159, 183, 193, 196	0
13	AM	109/415 (26%)	-0.32	0 100 100	228, 248, 259, 263	0
13	BM	109/415 (26%)	-0.32	0 100 100	247, 257, 278, 284	0
13	CM	109/415 (26%)	-0.37	0 100 100	181, 196, 202, 205	0
13	DM	109/415 (26%)	-0.29	1 (0%) 81 69	181, 197, 211, 218	0
13	EM	110/415 (26%)	-0.38	0 100 100	173, 189, 198, 203	0
13	FM	110/415 (26%)	-0.44	1 (0%) 81 69	177, 191, 198, 200	0
14	AN	142/233 (60%)	-0.13	0 100 100	194, 234, 266, 270	0
14	BN	143/233 (61%)	-0.12	3 (2%) 63 53	254, 266, 283, 297	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
14	CN	143/233 (61%)	-0.37	0 100 100	166, 187, 208, 219	0
14	DN	145/233 (62%)	-0.24	1 (0%) 84 73	167, 197, 213, 220	0
14	EN	144/233 (61%)	-0.25	1 (0%) 84 73	160, 184, 203, 214	0
14	FN	145/233 (62%)	-0.23	1 (0%) 84 73	157, 184, 204, 214	0
All	All	25720/33372 (77%)	-0.31	86 (0%) 90 81	142, 184, 273, 335	0

All (86) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BA	1489	VAL	4.5
5	AE	30	ILE	4.3
14	BN	64	ILE	3.8
3	EC	74	GLU	3.5
2	BB	1192	MET	3.3
1	DA	256	LEU	3.3
1	AA	118	TYR	3.2
1	FA	423	LEU	3.2
1	AA	334	VAL	3.2
1	DA	1193	VAL	3.1
1	EA	1089	LEU	3.0
1	EA	189	VAL	3.0
2	BB	1018	THR	3.0
1	AA	847	LEU	3.0
1	AA	570	THR	2.9
1	DA	97	TYR	2.9
4	BD	12	THR	2.7
1	EA	1287	ALA	2.7
10	EJ	44	TYR	2.7
3	DC	226	SER	2.7
14	EN	64	ILE	2.6
7	AG	142	ALA	2.6
7	EG	251	SER	2.6
1	BA	747	ILE	2.6
1	BA	523	VAL	2.6
7	CG	153	PHE	2.6
3	AC	156	LEU	2.6
1	AA	115	VAL	2.5
5	AE	31	THR	2.5
8	FH	4	THR	2.5
10	DJ	25	LEU	2.5
1	DA	253	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
2	CB	110	ASN	2.4
13	DM	29	GLY	2.4
1	DA	1329	ILE	2.4
6	BF	69	LEU	2.4
1	EA	16	PHE	2.4
1	BA	1485	MET	2.4
2	AB	1192	MET	2.4
1	DA	1287	ALA	2.4
7	FG	251	SER	2.4
1	CA	1460	TYR	2.3
7	EG	243	VAL	2.3
14	BN	163	VAL	2.3
1	DA	1570	PHE	2.2
7	CG	46	TYR	2.2
1	CA	334	VAL	2.2
14	DN	64	ILE	2.2
1	EA	250	LYS	2.2
1	FA	1579	PHE	2.2
3	EC	303	GLU	2.2
1	BA	1160	GLY	2.2
9	BI	87	PRO	2.2
1	BA	806	ALA	2.1
2	CB	1202	PRO	2.1
1	FA	16	PHE	2.1
9	AI	50	THR	2.1
2	DB	773	VAL	2.1
1	DA	1326	GLU	2.1
2	FB	320	LEU	2.1
1	BA	416	ARG	2.1
1	EA	382	GLN	2.1
1	BA	1655	ASP	2.1
1	AA	843	ARG	2.1
2	EB	490	LYS	2.1
1	AA	69	GLU	2.1
8	CH	52	GLN	2.1
5	BE	35	VAL	2.1
10	BJ	31	ASP	2.1
1	AA	122	LEU	2.1
5	BE	149	LEU	2.1
1	BA	1286	ALA	2.1
8	DH	4	THR	2.1
3	EC	156	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
14	FN	163	VAL	2.0
2	AB	437	ALA	2.0
2	BB	553	THR	2.0
2	EB	1172	GLU	2.0
13	FM	115	SER	2.0
1	BA	997	PHE	2.0
14	BN	58	PHE	2.0
3	DC	305	ALA	2.0
7	FG	243	VAL	2.0
2	CB	726	MET	2.0
1	FA	442	LYS	2.0
1	EA	437	PHE	2.0

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

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

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
15	ZN	BI	3002	1/1	0.93	0.11	311,311,311,311	0
15	ZN	DI	3002	1/1	0.97	0.04	195,195,195,195	0
15	ZN	BA	3001	1/1	0.98	0.05	248,248,248,248	0
15	ZN	BA	3002	1/1	0.98	0.04	283,283,283,283	0
15	ZN	AA	3001	1/1	0.98	0.05	222,222,222,222	0
15	ZN	AI	3001	1/1	0.98	0.04	247,247,247,247	0
15	ZN	EA	3002	1/1	0.98	0.03	215,215,215,215	0
15	ZN	EB	3001	1/1	0.98	0.05	169,169,169,169	0
15	ZN	FA	3001	1/1	0.98	0.06	178,178,178,178	0
15	ZN	FL	3001	1/1	0.98	0.04	184,184,184,184	0
15	ZN	AI	3002	1/1	0.99	0.03	213,213,213,213	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
15	ZN	BJ	3001	1/1	0.99	0.03	267,267,267,267	0
15	ZN	BL	3001	1/1	0.99	0.03	245,245,245,245	0
15	ZN	CA	3001	1/1	0.99	0.04	168,168,168,168	0
15	ZN	CA	3002	1/1	0.99	0.03	205,205,205,205	0
15	ZN	CB	3001	1/1	0.99	0.03	167,167,167,167	0
15	ZN	CI	3001	1/1	0.99	0.04	194,194,194,194	0
15	ZN	CI	3002	1/1	0.99	0.05	195,195,195,195	0
15	ZN	CL	3001	1/1	0.99	0.05	185,185,185,185	0
15	ZN	DA	3001	1/1	0.99	0.04	177,177,177,177	0
15	ZN	DA	3002	1/1	0.99	0.02	211,211,211,211	0
15	ZN	AJ	3001	1/1	0.99	0.06	197,197,197,197	0
15	ZN	EA	3001	1/1	0.99	0.08	171,171,171,171	0
15	ZN	AL	3001	1/1	0.99	0.04	241,241,241,241	0
15	ZN	AB	3001	1/1	0.99	0.04	214,214,214,214	0
15	ZN	EI	3001	1/1	0.99	0.05	187,187,187,187	0
15	ZN	EI	3002	1/1	0.99	0.03	198,198,198,198	0
15	ZN	EL	3001	1/1	0.99	0.06	176,176,176,176	0
15	ZN	AA	3002	1/1	0.99	0.03	262,262,262,262	0
15	ZN	FA	3002	1/1	0.99	0.02	202,202,202,202	0
15	ZN	FI	3002	1/1	0.99	0.03	190,190,190,190	0
15	ZN	BI	3001	1/1	0.99	0.06	257,257,257,257	0
15	ZN	DJ	3001	1/1	1.00	0.04	167,167,167,167	0
15	ZN	EJ	3001	1/1	1.00	0.02	159,159,159,159	0
15	ZN	DL	3001	1/1	1.00	0.03	184,184,184,184	0
15	ZN	BB	3001	1/1	1.00	0.04	252,252,252,252	0
15	ZN	DB	3001	1/1	1.00	0.07	172,172,172,172	0
15	ZN	FB	3001	1/1	1.00	0.06	163,163,163,163	0
15	ZN	FI	3001	1/1	1.00	0.05	189,189,189,189	0
15	ZN	DI	3001	1/1	1.00	0.04	195,195,195,195	0
15	ZN	FJ	3001	1/1	1.00	0.02	157,157,157,157	0
15	ZN	CJ	3001	1/1	1.00	0.06	164,164,164,164	0

6.5 Other polymers (i)

There are no such residues in this entry.