Full wwPDB EM Validation Report ⓘ

Dec 14, 2024 – 09:45 PM EST

PDB ID	:	1Q5C
EMDB ID	:	EMD-1052
Title	:	S-S-lambda-shaped TRANS and CIS interactions of cadherins model based on fitting C-cadherin (1L3W) to 3D map of desmosomes obtained by electron tomography
Authors	:	He, W.; Cowin, P.; Stokes, D.L.
Deposited on	:	2003-08-06
Resolution	:	30.00 Å(reported)
Based on initial model	:	1L3W

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

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

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

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

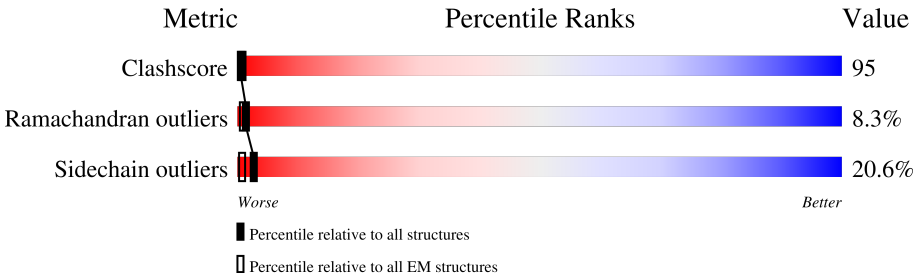
EMDB validation analysis	:	0.0.1.dev113
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)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

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 30.00 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=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%

Mol	Chain	Length	Quality of chain
1	A	880	16% 30% 11% • 39%
1	B	880	16% 31% 11% • 39%
1	C	880	15% 31% 11% • 39%
1	D	880	15% 32% 11% • 39%

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

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

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

2 Entry composition

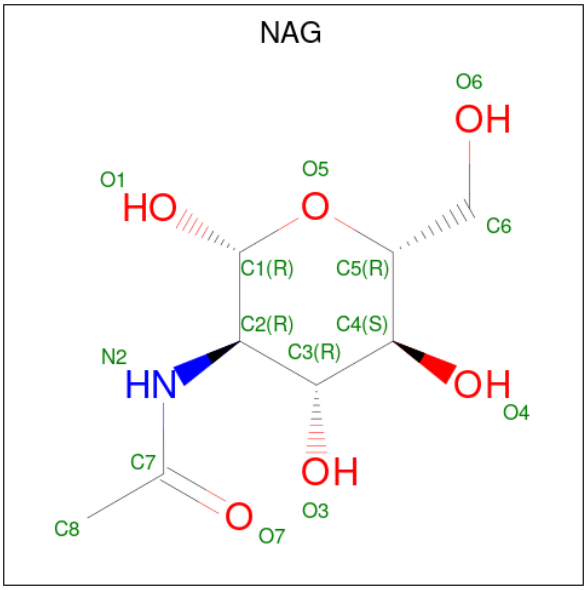
There are 4 unique types of molecules in this entry. The entry contains 17652 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called EP-cadherin.

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

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



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

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

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

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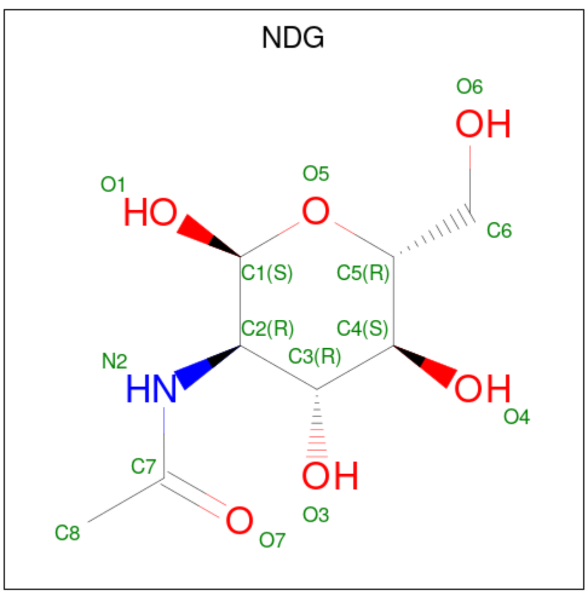
Mol	Chain	Residues	Atoms	AltConf
2	D	1	Total C N O 14 8 1 5	0
2	D	1	Total C N O 14 8 1 5	0
2	D	1	Total C N O 14 8 1 5	0
2	D	1	Total C N O 14 8 1 5	0
2	D	1	Total C N O 14 8 1 5	0
2	D	1	Total C N O 14 8 1 5	0
2	D	1	Total C N O 14 8 1 5	0
2	D	1	Total C N O 14 8 1 5	0

- Molecule 3 is 2-acetamido-2-deoxy-alpha-D-glucopyranose (three-letter code: NDG) (formula: $C_8H_{15}NO_6$).



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

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

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

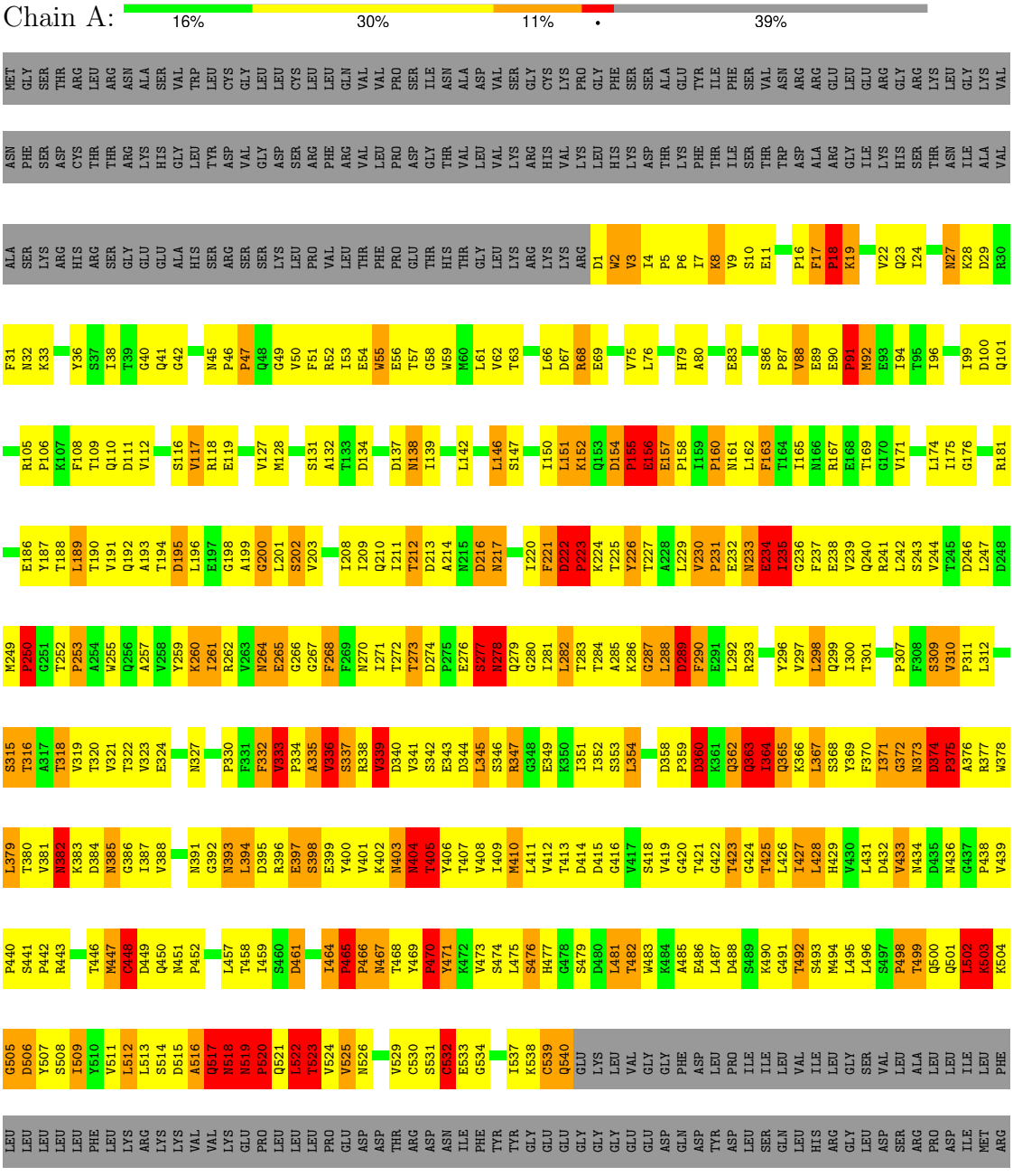
Mol	Chain	Residues	Atoms		AltConf
4	A	12	Total	Ca	0
			12	12	
4	B	12	Total	Ca	0
			12	12	
4	C	12	Total	Ca	0
			12	12	
4	D	12	Total	Ca	0
			12	12	

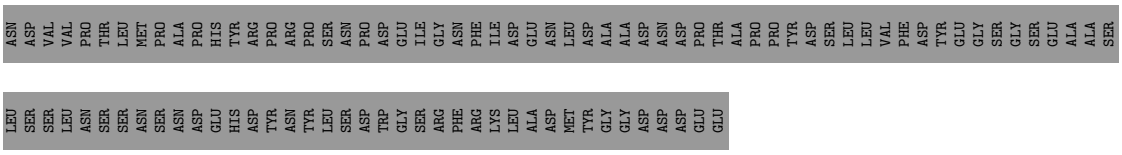
3 Residue-property plots (i)

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. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: EP-cadherin

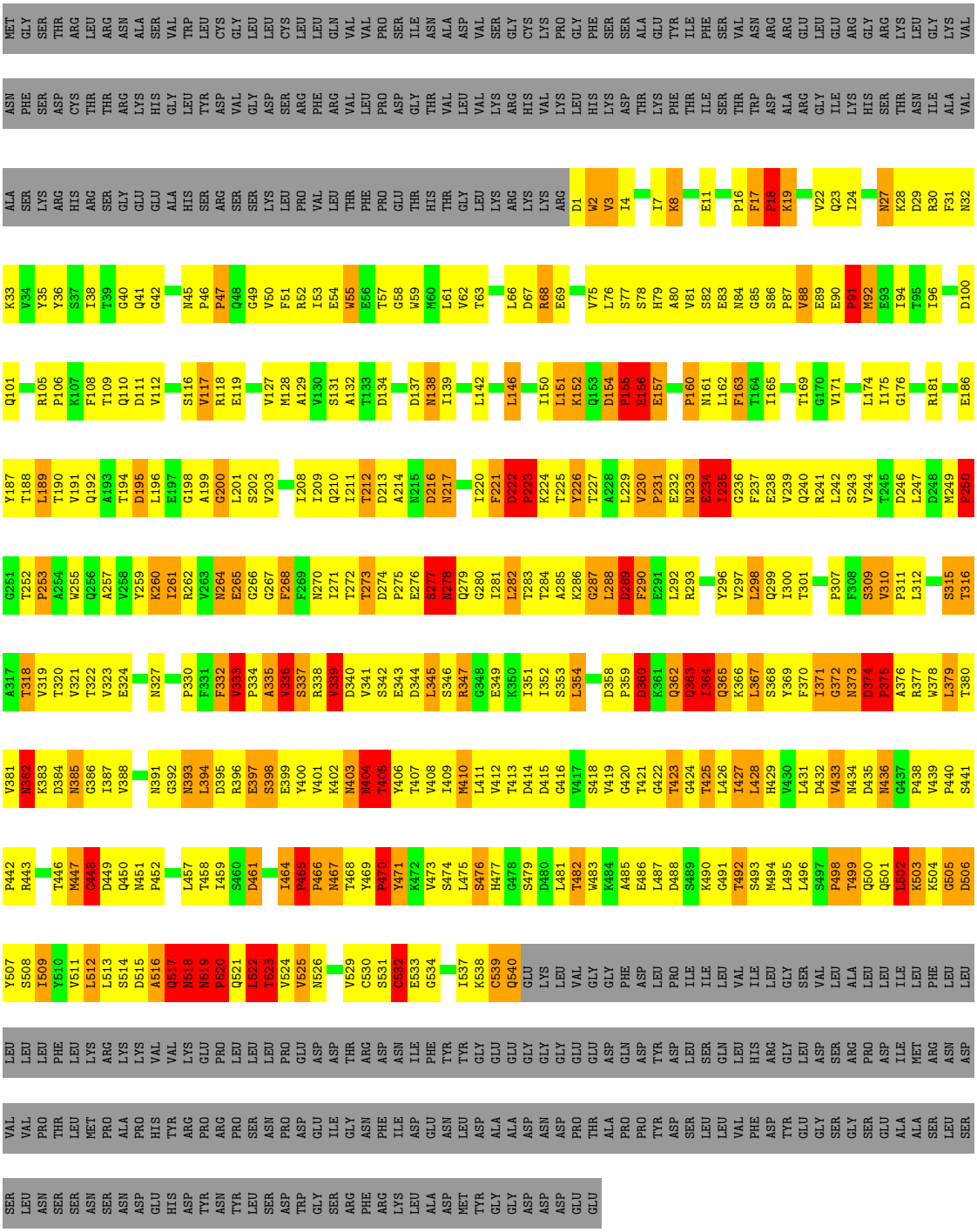
Chain A:





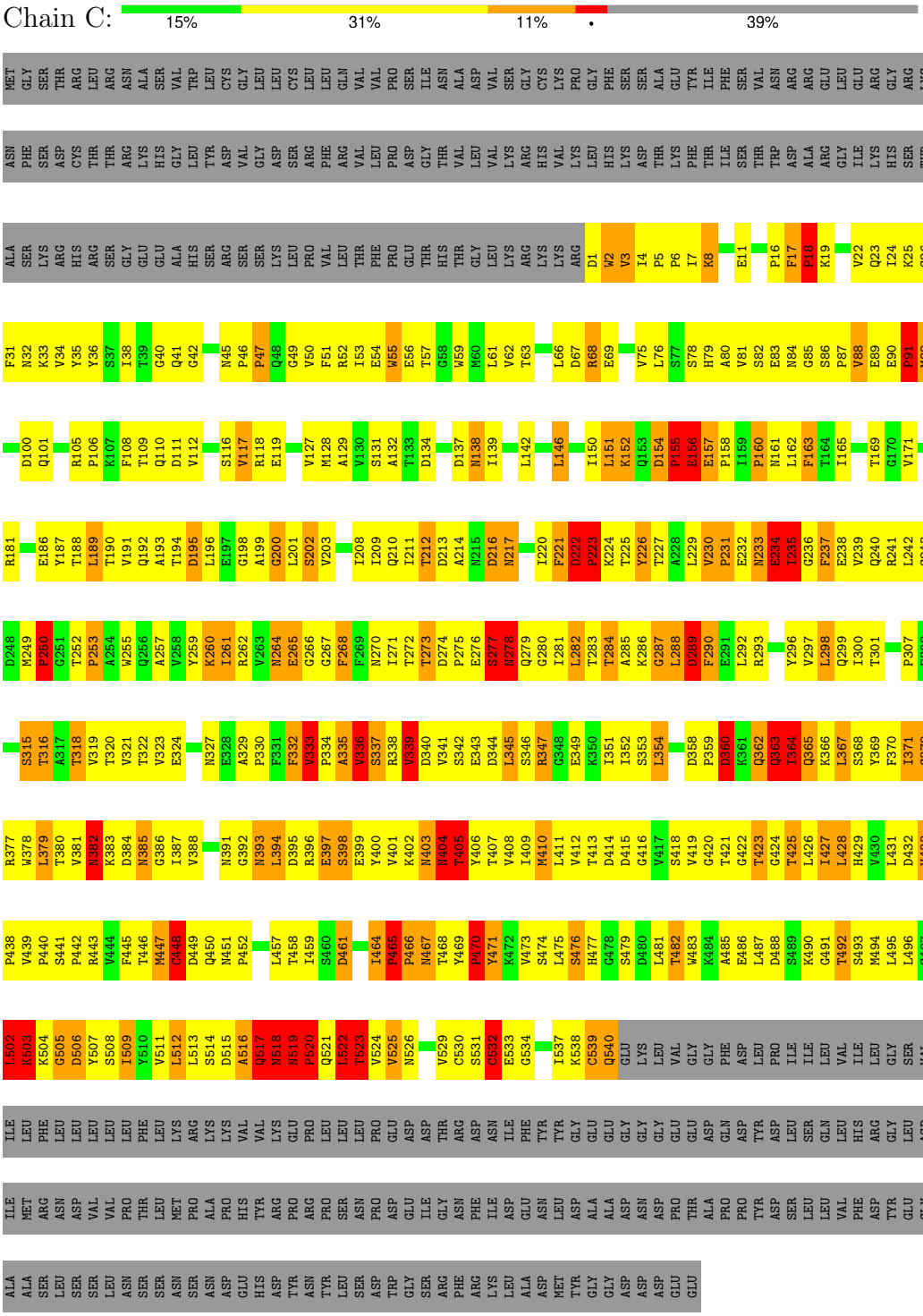
• Molecule 1: EP-cadherin

Chain B: 16% 31% 11% • 39%



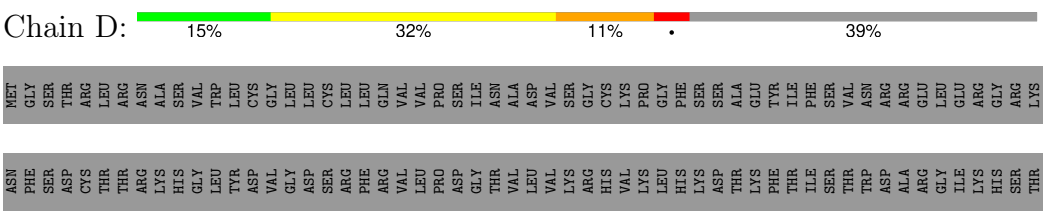
• Molecule 1: EP-cadherin

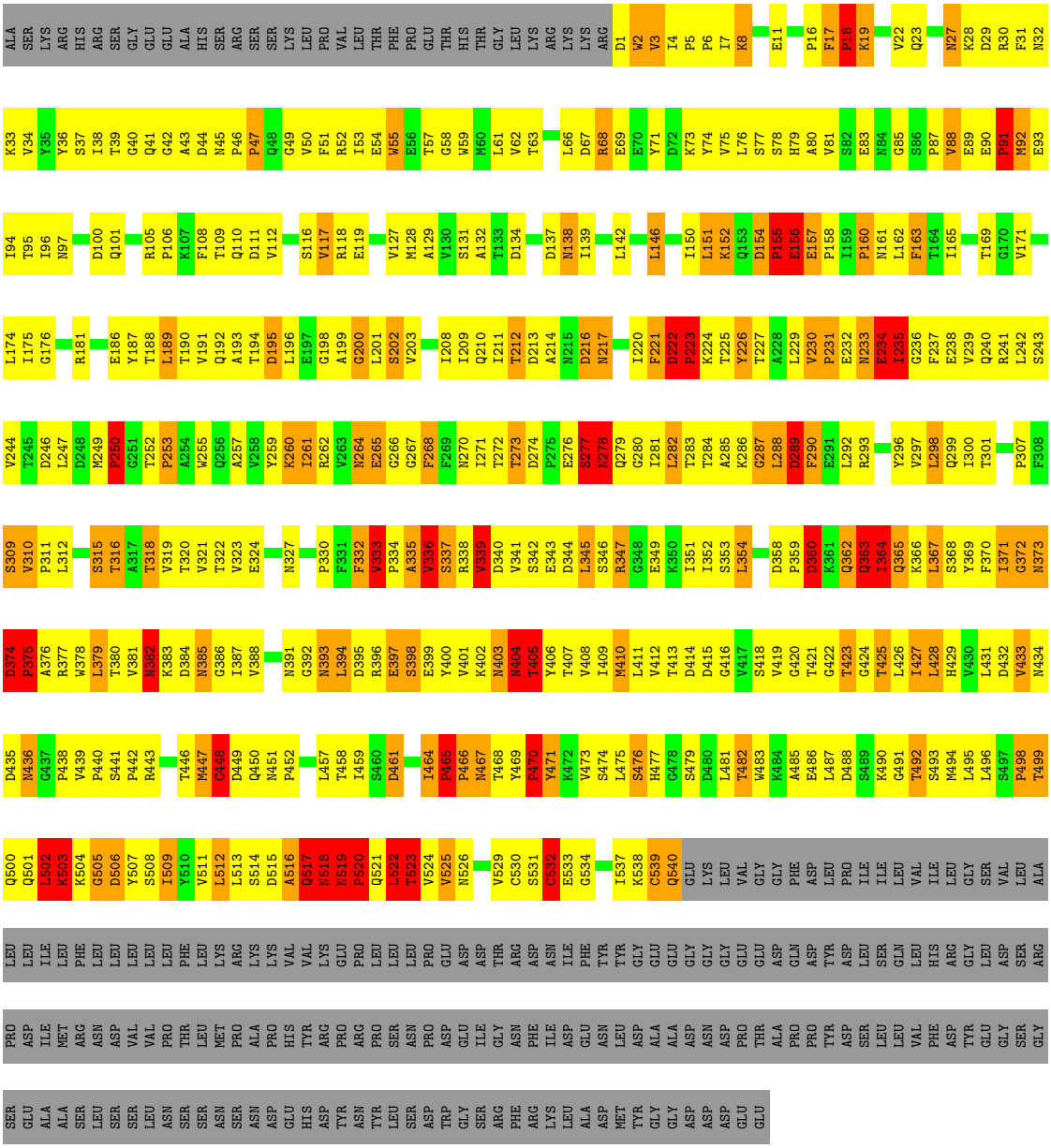
Chain C:



• Molecule 1: EP-cadherin

Chain D:




ALA SER LYS ARG HIS ARG SER GLY GLU GLU ALA HIS SER ARG SER SER LYS LEU PRO VAL LEU THR PHE PRO GLU THR HIS THR GLY LEU LYS ARG LYS LYS ARG
D1 W2 V3 I4 P5 P6 I7 K8 E11 P16 F17 P18 K19 V22 Q23 N27 K28 D29 R30 F31 N32
K33 V34 Y35 Y36 S37 I38 T39 G40 Q41 G42 A43 D44 N45 P46 P47 Q48 G49 V50 F51 R52 I53 E54 W55 E56 T57 G58 W59 M60 L61 V62 T63 L66 D67 R68 E69 E70 Y71 D72 K73 Y74 V75 L76 S77 S78 H79 A80 V81 S82 E83 N84 G85 S86 P87 V88 E89 E90 P91 M92 E93
I94 T95 I96 N97 D100 Q101 R105 P106 K107 F108 T109 Q110 D111 V112 S116 V117 R118 E119 V127 M128 A129 V130 S131 A132 T133 D134 D137 N138 I139 L142 L146 I150 L151 K152 Q153 D154 P155 E156 E157 P158 I159 P160 N161 L162 F163 T164 I165 T169 G170 V171
L174 I175 G176 R181 E186 Y187 T188 L189 T190 V191 Q192 A193 T194 D195 L196 E197 G198 A199 G200 L201 S202 V203 I208 I209 Q210 I211 T212 D213 A214 N215 D216 N217 I220 F221 D222 P223 K224 T225 Y226 T227 A228 L229 V230 P231 E232 N233 E234 I235 G236 F237 E238 V239 Q240 R241 L242 S243
V244 T245 D246 L247 D248 M249 P250 G251 T252 P253 A254 W255 Q256 A257 V258 Y259 K260 I261 R262 V263 N264 E265 G266 G267 F268 P269 N270 I271 T272 T273 D274 P275 E276 S277 N278 Q279 G280 I281 L282 T283 T284 A285 K286 G287 L288 D289 P290 E291 L292 R293 Y296 V297 L298 Q299 I300 T301 P307 F308
S309 V310 P311 L312 S315 T316 A317 T318 V319 T320 V321 T322 V323 E324 N327 P330 F331 F332 V333 P334 A335 V336 S337 R338 V339 D340 V341 S342 E343 D344 L345 S346 R347 G348 E349 K350 I351 I352 S353 L354 D358 P359 D360 K361 Q362 Q363 I364 Q365 K366 L367 S368 Y369 F370 I371 G372 N373
D374 P375 A376 R377 W378 L379 T380 V381 N382 K383 D384 N385 G386 I387 V388 N391 G392 N393 L394 D395 R396 E397 S398 E399 Y400 V401 K402 N403 N404 T405 Y406 T407 V408 I409 M410 L411 V412 T413 D414 D415 G416 V417 S418 V419 G420 T421 G422 T423 G424 T425 L426 I427 L428 H429 V430 L431 D432 V433 N434
D435 N436 G437 P438 V439 P440 S441 P442 R443 T446 M447 C448 D449 Q450 N451 P452 L457 T458 I459 S460 D461 I464 P465 P466 N467 T468 Y469 P470 Y471 K472 V473 S474 L475 S476 H477 G478 S479 D480 L481 T482 W483 K484 A485 E486 L487 D488 S489 K490 G491 T492 S493 M494 L495 L496 S497 P498 T499
Q500 Q501 L502 K503 K504 G505 D506 Y507 S508 I509 Y510 V511 L512 L513 S514 D515 A516 Q517 N518 N519 P520 Q521 L522 T523 V524 V525 N526 V529 C530 S531 C532 E533 G534 I537 K538 C539 Q540 GLU LYS LEU VAL GLY GLY PHE ASP LEU PRO ILE ILE LEU VAL ILE LEU GLY SER VAL LEU ALA
LEU LEU ILE LEU PHE LEU LEU LEU LEU LEU PHE LEU LYS ARG LYS LYS VAL VAL LYS GLU PRO LEU LEU LEU PRO GLU ASP ASP THR ARG ASP ASN ILE PHE TYR TYR GLY GLU GLU GLY GLY GLY GLU GLU ASP GLN ASP TYR ASP LEU SER GLN LEU LEU HIS ARG GLY LEU ASP SER ARG
PRO ASP ILE MET ARG ASN ASP VAL VAL PRO THR LEU MET PRO ALA PRO HIS TYR ARG PRO ARG PRO SER ASN PRO ASP GLU ILE GLY ASN PHE ILE ASP GLU ASN LEU ASP ALA ALA ASP ASN ASP PRO THR ALA PRO PRO TYR ASP SER LEU LEU VAL PHE ASP TYR GLU GLY SER GLY
SER GLU ALA ALA SER LEU SER SER LEU ASN SER SER ASN SER ASN ASP GLU HIS ASP TYR ASN TYR LEU SER ASP TRP GLY SER ARG PHE ARG LYS LEU ALA ASP MET TYR GLY GLY ASP ASP GLU GLU

4 Experimental information (i)

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

5 Model quality

5.1 Standard geometry

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.70	8/4276 (0.2%)	1.39	77/5839 (1.3%)
1	B	0.70	8/4276 (0.2%)	1.39	78/5839 (1.3%)
1	C	0.70	8/4276 (0.2%)	1.39	78/5839 (1.3%)
1	D	0.70	8/4276 (0.2%)	1.39	78/5839 (1.3%)
All	All	0.70	32/17104 (0.2%)	1.39	311/23356 (1.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	4
1	B	0	4
1	C	0	4
1	D	0	4
All	All	0	16

All (32) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	335	ALA	CA-CB	-8.37	1.34	1.52
1	A	335	ALA	CA-CB	-8.36	1.34	1.52
1	D	335	ALA	CA-CB	-8.34	1.34	1.52
1	C	335	ALA	CA-CB	-8.29	1.35	1.52
1	B	539	CYS	CB-SG	8.15	1.96	1.82
1	A	539	CYS	CB-SG	8.15	1.96	1.82
1	C	539	CYS	CB-SG	8.14	1.96	1.82
1	D	539	CYS	CB-SG	8.13	1.96	1.82
1	A	223	PRO	CG-CD	7.02	1.73	1.50
1	B	223	PRO	CG-CD	7.00	1.73	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	223	PRO	CG-CD	7.00	1.73	1.50
1	D	223	PRO	CG-CD	6.98	1.73	1.50
1	D	523	THR	N-CA	-6.25	1.33	1.46
1	B	523	THR	N-CA	-6.25	1.33	1.46
1	C	523	THR	N-CA	-6.22	1.33	1.46
1	A	523	THR	N-CA	-6.22	1.33	1.46
1	B	522	LEU	N-CA	-5.99	1.34	1.46
1	C	522	LEU	N-CA	-5.98	1.34	1.46
1	A	522	LEU	N-CA	-5.98	1.34	1.46
1	D	18	PRO	N-CD	5.97	1.56	1.47
1	C	18	PRO	N-CD	5.95	1.56	1.47
1	D	522	LEU	N-CA	-5.95	1.34	1.46
1	B	18	PRO	N-CD	5.94	1.56	1.47
1	A	18	PRO	N-CD	5.90	1.56	1.47
1	A	530	CYS	CB-SG	5.51	1.91	1.82
1	C	530	CYS	CB-SG	5.49	1.91	1.82
1	D	530	CYS	CB-SG	5.49	1.91	1.82
1	B	530	CYS	CB-SG	5.46	1.91	1.82
1	C	499	THR	CA-CB	5.04	1.66	1.53
1	B	499	THR	CA-CB	5.02	1.66	1.53
1	A	499	THR	CA-CB	5.02	1.66	1.53
1	D	499	THR	CA-CB	5.01	1.66	1.53

All (311) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	520	PRO	CA-C-N	-13.29	87.95	117.20
1	B	520	PRO	CA-C-N	-13.27	88.00	117.20
1	C	520	PRO	CA-C-N	-13.27	88.00	117.20
1	A	520	PRO	CA-C-N	-13.25	88.04	117.20
1	D	235	ILE	N-CA-C	12.74	145.39	111.00
1	D	290	PHE	N-CA-C	12.74	145.39	111.00
1	A	290	PHE	N-CA-C	12.73	145.38	111.00
1	C	235	ILE	N-CA-C	12.73	145.38	111.00
1	B	235	ILE	N-CA-C	12.73	145.37	111.00
1	C	290	PHE	N-CA-C	12.73	145.37	111.00
1	B	290	PHE	N-CA-C	12.72	145.35	111.00
1	A	235	ILE	N-CA-C	12.71	145.32	111.00
1	B	374	ASP	N-CA-C	11.61	142.35	111.00
1	A	374	ASP	N-CA-C	11.60	142.32	111.00
1	C	374	ASP	N-CA-C	11.60	142.33	111.00
1	D	374	ASP	N-CA-C	11.60	142.33	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	17	PHE	C-N-CD	-11.54	95.21	120.60
1	C	17	PHE	C-N-CD	-11.54	95.22	120.60
1	A	17	PHE	C-N-CD	-11.53	95.24	120.60
1	D	17	PHE	C-N-CD	-11.53	95.25	120.60
1	B	398	SER	N-CA-C	11.37	141.71	111.00
1	D	398	SER	N-CA-C	11.38	141.71	111.00
1	A	398	SER	N-CA-C	11.37	141.69	111.00
1	C	398	SER	N-CA-C	11.36	141.66	111.00
1	B	465	PRO	C-N-CD	-11.04	96.31	120.60
1	C	465	PRO	C-N-CD	-11.04	96.31	120.60
1	D	465	PRO	C-N-CD	-11.04	96.32	120.60
1	A	465	PRO	C-N-CD	-11.01	96.38	120.60
1	D	222	ASP	CB-CG-OD2	10.09	127.38	118.30
1	C	222	ASP	CB-CG-OD2	10.06	127.36	118.30
1	B	222	ASP	CB-CG-OD2	10.04	127.33	118.30
1	A	222	ASP	CB-CG-OD2	10.02	127.31	118.30
1	A	236	GLY	N-CA-C	-9.99	88.13	113.10
1	B	236	GLY	N-CA-C	-9.99	88.14	113.10
1	D	236	GLY	N-CA-C	-9.97	88.17	113.10
1	B	230	VAL	C-N-CD	-9.97	98.66	120.60
1	C	236	GLY	N-CA-C	-9.97	88.18	113.10
1	C	230	VAL	C-N-CD	-9.94	98.72	120.60
1	D	230	VAL	C-N-CD	-9.94	98.74	120.60
1	A	230	VAL	C-N-CD	-9.94	98.74	120.60
1	A	374	ASP	CB-CA-C	-9.66	91.08	110.40
1	B	376	ALA	N-CA-C	9.66	137.09	111.00
1	C	374	ASP	CB-CA-C	-9.66	91.08	110.40
1	B	374	ASP	CB-CA-C	-9.66	91.08	110.40
1	D	374	ASP	CB-CA-C	-9.66	91.08	110.40
1	C	376	ALA	N-CA-C	9.65	137.07	111.00
1	D	376	ALA	N-CA-C	9.65	137.07	111.00
1	A	376	ALA	N-CA-C	9.65	137.05	111.00
1	B	522	LEU	CA-CB-CG	-9.38	93.73	115.30
1	A	522	LEU	CA-CB-CG	-9.38	93.74	115.30
1	D	522	LEU	CA-CB-CG	-9.37	93.75	115.30
1	C	522	LEU	CA-CB-CG	-9.36	93.78	115.30
1	A	520	PRO	N-CA-C	9.31	136.31	112.10
1	C	520	PRO	N-CA-C	9.31	136.30	112.10
1	A	223	PRO	N-CA-C	-9.30	87.92	112.10
1	B	520	PRO	N-CA-C	9.30	136.27	112.10
1	A	221	PHE	C-N-CA	-9.29	98.46	121.70
1	B	221	PHE	C-N-CA	-9.29	98.47	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	221	PHE	C-N-CA	-9.29	98.46	121.70
1	C	223	PRO	N-CA-C	-9.30	87.93	112.10
1	D	221	PHE	C-N-CA	-9.29	98.46	121.70
1	D	223	PRO	N-CA-C	-9.30	87.93	112.10
1	B	223	PRO	N-CA-C	-9.29	87.94	112.10
1	D	481	LEU	N-CA-C	-9.29	85.92	111.00
1	B	481	LEU	N-CA-C	-9.28	85.95	111.00
1	D	520	PRO	N-CA-C	9.28	136.23	112.10
1	C	481	LEU	N-CA-C	-9.28	85.96	111.00
1	A	481	LEU	N-CA-C	-9.26	85.99	111.00
1	D	481	LEU	CA-CB-CG	-8.76	95.14	115.30
1	B	481	LEU	CA-CB-CG	-8.76	95.15	115.30
1	A	481	LEU	CA-CB-CG	-8.76	95.16	115.30
1	C	481	LEU	CA-CB-CG	-8.74	95.19	115.30
1	D	289	ASP	C-N-CA	-8.44	100.61	121.70
1	B	289	ASP	C-N-CA	-8.43	100.63	121.70
1	C	289	ASP	C-N-CA	-8.43	100.64	121.70
1	A	289	ASP	C-N-CA	-8.42	100.65	121.70
1	C	516	ALA	N-CA-C	-8.36	88.42	111.00
1	A	516	ALA	N-CA-C	-8.35	88.45	111.00
1	B	516	ALA	N-CA-C	-8.35	88.45	111.00
1	D	516	ALA	N-CA-C	-8.35	88.46	111.00
1	C	222	ASP	C-N-CD	-8.20	102.56	120.60
1	A	222	ASP	C-N-CD	-8.20	102.56	120.60
1	B	222	ASP	C-N-CD	-8.19	102.58	120.60
1	D	222	ASP	C-N-CD	-8.19	102.58	120.60
1	B	290	PHE	CA-C-N	-8.19	99.19	117.20
1	A	290	PHE	CA-C-N	-8.18	99.20	117.20
1	D	290	PHE	CA-C-N	-8.18	99.21	117.20
1	C	290	PHE	CA-C-N	-8.17	99.22	117.20
1	B	46	PRO	C-N-CD	-8.05	102.89	120.60
1	A	46	PRO	C-N-CD	-8.03	102.94	120.60
1	D	46	PRO	C-N-CD	-8.03	102.94	120.60
1	C	46	PRO	C-N-CD	-8.02	102.95	120.60
1	C	233	ASN	N-CA-C	7.88	132.27	111.00
1	A	233	ASN	N-CA-C	7.87	132.26	111.00
1	D	233	ASN	N-CA-C	7.86	132.22	111.00
1	B	233	ASN	N-CA-C	7.86	132.21	111.00
1	D	336	VAL	N-CA-C	7.81	132.09	111.00
1	A	336	VAL	N-CA-C	7.81	132.09	111.00
1	B	336	VAL	N-CA-C	7.80	132.05	111.00
1	C	522	LEU	C-N-CA	-7.80	102.21	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	522	LEU	C-N-CA	-7.79	102.23	121.70
1	C	336	VAL	N-CA-C	7.79	132.03	111.00
1	D	522	LEU	C-N-CA	-7.79	102.23	121.70
1	B	522	LEU	C-N-CA	-7.78	102.25	121.70
1	A	362	GLN	N-CA-C	-7.73	90.13	111.00
1	D	362	GLN	N-CA-C	-7.73	90.14	111.00
1	C	362	GLN	N-CA-C	-7.72	90.16	111.00
1	B	362	GLN	N-CA-C	-7.72	90.17	111.00
1	C	234	GLU	N-CA-C	-7.60	90.48	111.00
1	A	234	GLU	N-CA-C	-7.60	90.48	111.00
1	B	234	GLU	N-CA-C	-7.58	90.55	111.00
1	D	234	GLU	N-CA-C	-7.57	90.56	111.00
1	A	234	GLU	C-N-CA	7.43	140.28	121.70
1	D	234	GLU	C-N-CA	7.41	140.22	121.70
1	C	234	GLU	C-N-CA	7.40	140.21	121.70
1	B	234	GLU	C-N-CA	7.40	140.20	121.70
1	C	521	GLN	C-N-CA	-7.39	103.22	121.70
1	A	521	GLN	C-N-CA	-7.39	103.23	121.70
1	B	521	GLN	C-N-CA	-7.37	103.28	121.70
1	D	521	GLN	C-N-CA	-7.36	103.30	121.70
1	A	277	SER	N-CA-C	-7.21	91.53	111.00
1	D	277	SER	N-CA-C	-7.20	91.56	111.00
1	B	277	SER	N-CA-C	-7.19	91.59	111.00
1	C	277	SER	N-CA-C	-7.19	91.59	111.00
1	C	337	SER	N-CA-C	-7.19	91.59	111.00
1	D	337	SER	N-CA-C	-7.19	91.60	111.00
1	A	337	SER	N-CA-C	-7.18	91.62	111.00
1	B	337	SER	N-CA-C	-7.17	91.64	111.00
1	D	503	LYS	N-CA-C	7.03	129.97	111.00
1	C	503	LYS	N-CA-C	7.02	129.94	111.00
1	B	503	LYS	N-CA-C	7.01	129.92	111.00
1	A	503	LYS	N-CA-C	7.00	129.90	111.00
1	A	523	THR	N-CA-CB	-6.95	97.10	110.30
1	B	523	THR	N-CA-CB	-6.94	97.11	110.30
1	C	523	THR	N-CA-CB	-6.93	97.12	110.30
1	D	523	THR	N-CA-CB	-6.93	97.14	110.30
1	A	492	THR	N-CA-C	6.78	129.31	111.00
1	C	492	THR	N-CA-C	6.77	129.27	111.00
1	D	492	THR	N-CA-C	6.76	129.26	111.00
1	B	492	THR	N-CA-C	6.76	129.24	111.00
1	D	448	CYS	CA-CB-SG	-6.71	101.93	114.00
1	A	448	CYS	CA-CB-SG	-6.69	101.96	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	448	CYS	CA-CB-SG	-6.68	101.97	114.00
1	B	448	CYS	CA-CB-SG	-6.68	101.98	114.00
1	D	476	SER	N-CA-C	6.59	128.78	111.00
1	C	476	SER	N-CA-C	6.58	128.78	111.00
1	A	476	SER	N-CA-C	6.58	128.77	111.00
1	D	398	SER	C-N-CA	-6.58	105.24	121.70
1	A	398	SER	C-N-CA	-6.58	105.25	121.70
1	C	398	SER	C-N-CA	-6.58	105.25	121.70
1	B	398	SER	C-N-CA	-6.57	105.26	121.70
1	B	476	SER	N-CA-C	6.57	128.75	111.00
1	B	491	GLY	N-CA-C	6.55	129.47	113.10
1	D	491	GLY	N-CA-C	6.53	129.44	113.10
1	A	491	GLY	N-CA-C	6.53	129.41	113.10
1	C	525	VAL	N-CA-C	-6.53	93.38	111.00
1	C	491	GLY	N-CA-C	6.51	129.38	113.10
1	D	525	VAL	N-CA-C	-6.51	93.42	111.00
1	A	525	VAL	N-CA-C	-6.50	93.45	111.00
1	B	525	VAL	N-CA-C	-6.49	93.47	111.00
1	B	335	ALA	N-CA-C	-6.33	93.90	111.00
1	A	335	ALA	N-CA-C	-6.33	93.91	111.00
1	C	335	ALA	N-CA-C	-6.33	93.91	111.00
1	D	335	ALA	N-CA-C	-6.33	93.92	111.00
1	C	532	CYS	N-CA-C	6.32	128.06	111.00
1	D	532	CYS	N-CA-C	6.31	128.03	111.00
1	A	532	CYS	N-CA-C	6.30	128.00	111.00
1	B	532	CYS	N-CA-C	6.29	127.98	111.00
1	C	234	GLU	CA-C-N	-6.28	103.38	117.20
1	B	234	GLU	CA-C-N	-6.28	103.39	117.20
1	D	234	GLU	CA-C-N	-6.28	103.39	117.20
1	A	234	GLU	CA-C-N	-6.24	103.46	117.20
1	B	222	ASP	N-CA-C	6.16	127.64	111.00
1	A	222	ASP	N-CA-C	6.16	127.63	111.00
1	A	235	ILE	CA-C-N	-6.16	103.89	116.20
1	D	222	ASP	N-CA-C	6.16	127.62	111.00
1	C	222	ASP	N-CA-C	6.15	127.62	111.00
1	D	235	ILE	CA-C-N	-6.14	103.92	116.20
1	B	235	ILE	CA-C-N	-6.14	103.92	116.20
1	C	235	ILE	CA-C-N	-6.14	103.92	116.20
1	C	397	GLU	C-N-CA	-6.14	106.36	121.70
1	A	397	GLU	C-N-CA	-6.14	106.36	121.70
1	B	397	GLU	C-N-CA	-6.13	106.38	121.70
1	D	397	GLU	C-N-CA	-6.12	106.40	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	503	LYS	CB-CA-C	-6.11	98.19	110.40
1	B	18	PRO	CA-N-CD	-6.10	102.96	111.50
1	B	503	LYS	CB-CA-C	-6.09	98.22	110.40
1	C	18	PRO	CA-N-CD	-6.09	102.97	111.50
1	C	503	LYS	CB-CA-C	-6.09	98.22	110.40
1	A	503	LYS	CB-CA-C	-6.08	98.24	110.40
1	D	18	PRO	CA-N-CD	-6.08	102.99	111.50
1	A	18	PRO	CA-N-CD	-6.08	102.99	111.50
1	D	502	LEU	N-CA-C	6.07	127.38	111.00
1	C	502	LEU	N-CA-C	6.06	127.36	111.00
1	B	502	LEU	N-CA-C	6.05	127.33	111.00
1	A	502	LEU	N-CA-C	6.05	127.33	111.00
1	A	2	TRP	N-CA-C	-6.03	94.71	111.00
1	D	2	TRP	N-CA-C	-6.03	94.73	111.00
1	B	2	TRP	N-CA-C	-6.01	94.76	111.00
1	C	2	TRP	N-CA-C	-6.01	94.76	111.00
1	D	374	ASP	C-N-CD	5.98	140.95	128.40
1	A	222	ASP	N-CA-CB	5.97	121.35	110.60
1	C	374	ASP	C-N-CD	5.97	140.94	128.40
1	D	222	ASP	N-CA-CB	5.96	121.33	110.60
1	A	374	ASP	C-N-CD	5.96	140.91	128.40
1	C	222	ASP	N-CA-CB	5.95	121.30	110.60
1	B	374	ASP	C-N-CD	5.94	140.88	128.40
1	B	222	ASP	N-CA-CB	5.94	121.29	110.60
1	C	364	ILE	N-CA-C	-5.92	95.00	111.00
1	A	364	ILE	N-CA-C	-5.92	95.03	111.00
1	D	364	ILE	N-CA-C	-5.91	95.04	111.00
1	B	364	ILE	N-CA-C	-5.91	95.05	111.00
1	D	382	ASN	N-CA-C	-5.84	95.22	111.00
1	C	376	ALA	CA-C-N	-5.84	104.35	117.20
1	B	382	ASN	N-CA-C	-5.84	95.24	111.00
1	A	376	ALA	CA-C-N	-5.83	104.36	117.20
1	D	376	ALA	CA-C-N	-5.83	104.37	117.20
1	A	382	ASN	N-CA-C	-5.83	95.27	111.00
1	C	382	ASN	N-CA-C	-5.83	95.27	111.00
1	B	376	ALA	CA-C-N	-5.81	104.42	117.20
1	B	471	TYR	N-CA-C	5.74	126.50	111.00
1	C	471	TYR	N-CA-C	5.73	126.47	111.00
1	D	471	TYR	N-CA-C	5.72	126.45	111.00
1	A	471	TYR	N-CA-C	5.72	126.45	111.00
1	B	481	LEU	CA-C-N	-5.70	104.65	117.20
1	C	481	LEU	CA-C-N	-5.70	104.65	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	481	LEU	CA-C-N	-5.70	104.66	117.20
1	D	481	LEU	CA-C-N	-5.70	104.67	117.20
1	D	374	ASP	C-N-CA	-5.67	98.17	122.00
1	C	374	ASP	C-N-CA	-5.67	98.19	122.00
1	B	374	ASP	C-N-CA	-5.67	98.21	122.00
1	A	374	ASP	C-N-CA	-5.66	98.21	122.00
1	A	403	ASN	N-CA-C	-5.64	95.78	111.00
1	B	403	ASN	N-CA-C	-5.63	95.80	111.00
1	D	403	ASN	N-CA-C	-5.63	95.80	111.00
1	C	403	ASN	N-CA-C	-5.63	95.81	111.00
1	B	221	PHE	CA-C-N	5.58	129.48	117.20
1	A	221	PHE	CA-C-N	5.57	129.46	117.20
1	D	505	GLY	N-CA-C	5.57	127.03	113.10
1	C	505	GLY	N-CA-C	5.57	127.03	113.10
1	C	221	PHE	CA-C-N	5.56	129.43	117.20
1	D	221	PHE	CA-C-N	5.56	129.43	117.20
1	B	505	GLY	N-CA-C	5.55	126.98	113.10
1	D	502	LEU	CB-CA-C	-5.54	99.67	110.20
1	A	505	GLY	N-CA-C	5.54	126.95	113.10
1	B	502	LEU	CB-CA-C	-5.54	99.68	110.20
1	A	502	LEU	CB-CA-C	-5.53	99.69	110.20
1	C	502	LEU	CB-CA-C	-5.53	99.69	110.20
1	D	157	GLU	C-N-CD	-5.47	108.56	120.60
1	A	157	GLU	C-N-CD	-5.47	108.57	120.60
1	C	157	GLU	C-N-CD	-5.47	108.57	120.60
1	B	157	GLU	C-N-CD	-5.45	108.60	120.60
1	B	519	ASN	N-CA-C	5.37	125.49	111.00
1	D	519	ASN	N-CA-C	5.36	125.48	111.00
1	C	519	ASN	N-CA-C	5.35	125.44	111.00
1	A	519	ASN	N-CA-C	5.34	125.42	111.00
1	A	405	THR	N-CA-C	5.32	125.36	111.00
1	C	405	THR	N-CA-C	5.32	125.36	111.00
1	B	405	THR	N-CA-C	5.32	125.35	111.00
1	D	405	THR	N-CA-C	5.32	125.35	111.00
1	C	367	LEU	CA-CB-CG	-5.31	103.08	115.30
1	D	367	LEU	CA-CB-CG	-5.30	103.10	115.30
1	B	367	LEU	CA-CB-CG	-5.29	103.12	115.30
1	A	367	LEU	CA-CB-CG	-5.28	103.15	115.30
1	B	521	GLN	N-CA-C	-5.21	96.94	111.00
1	D	521	GLN	N-CA-C	-5.21	96.94	111.00
1	C	521	GLN	N-CA-C	-5.20	96.95	111.00
1	A	521	GLN	N-CA-C	-5.20	96.95	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	290	PHE	O-C-N	5.20	131.01	122.70
1	A	290	PHE	O-C-N	5.19	131.00	122.70
1	A	520	PRO	C-N-CA	5.18	134.65	121.70
1	B	290	PHE	O-C-N	5.17	130.98	122.70
1	C	532	CYS	N-CA-CB	-5.17	101.29	110.60
1	B	520	PRO	C-N-CA	5.17	134.62	121.70
1	C	290	PHE	O-C-N	5.17	130.97	122.70
1	C	520	PRO	C-N-CA	5.17	134.61	121.70
1	D	532	CYS	N-CA-CB	-5.16	101.31	110.60
1	A	532	CYS	N-CA-CB	-5.15	101.33	110.60
1	D	520	PRO	C-N-CA	5.14	134.54	121.70
1	B	18	PRO	CA-CB-CG	-5.13	94.26	104.00
1	B	532	CYS	N-CA-CB	-5.13	101.37	110.60
1	A	18	PRO	CA-CB-CG	-5.12	94.27	104.00
1	B	339	VAL	N-CA-C	5.12	124.83	111.00
1	D	18	PRO	CA-CB-CG	-5.12	94.27	104.00
1	C	339	VAL	N-CA-C	5.12	124.82	111.00
1	C	522	LEU	N-CA-C	-5.12	97.18	111.00
1	A	522	LEU	N-CA-C	-5.12	97.19	111.00
1	B	522	LEU	N-CA-C	-5.12	97.19	111.00
1	A	339	VAL	N-CA-C	5.11	124.81	111.00
1	D	522	LEU	N-CA-C	-5.11	97.21	111.00
1	D	339	VAL	N-CA-C	5.10	124.77	111.00
1	C	18	PRO	CA-CB-CG	-5.09	94.32	104.00
1	A	16	PRO	C-N-CA	-5.07	109.02	121.70
1	C	16	PRO	C-N-CA	-5.07	109.03	121.70
1	B	16	PRO	C-N-CA	-5.07	109.03	121.70
1	D	16	PRO	C-N-CA	-5.06	109.06	121.70
1	C	470	PRO	N-CA-C	5.03	125.19	112.10
1	C	332	PHE	N-CA-C	-5.03	97.42	111.00
1	D	332	PHE	N-CA-C	-5.03	97.42	111.00
1	B	470	PRO	N-CA-C	5.03	125.17	112.10
1	A	332	PHE	N-CA-C	-5.03	97.42	111.00
1	C	221	PHE	N-CA-C	5.03	124.57	111.00
1	B	332	PHE	N-CA-C	-5.03	97.43	111.00
1	B	221	PHE	N-CA-C	5.02	124.56	111.00
1	A	221	PHE	N-CA-C	5.02	124.55	111.00
1	A	539	CYS	N-CA-C	5.02	124.55	111.00
1	D	470	PRO	N-CA-C	5.02	125.15	112.10
1	B	539	CYS	N-CA-C	5.01	124.54	111.00
1	D	539	CYS	N-CA-C	5.01	124.54	111.00
1	D	221	PHE	N-CA-C	5.01	124.53	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	539	CYS	N-CA-C	5.01	124.52	111.00

There are no chirality outliers.

All (16) planarity outliers are listed below:

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

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4191	0	4089	796	0
1	B	4191	0	4081	863	0
1	C	4191	0	4078	1116	0
1	D	4191	0	4082	1111	0
2	A	182	0	168	93	0
2	B	182	0	168	90	0
2	C	182	0	169	92	0
2	D	182	0	169	92	0
3	A	28	0	24	9	0
3	B	28	0	24	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	28	0	24	8	0
3	D	28	0	24	9	0
4	A	12	0	0	0	0
4	B	12	0	0	0	0
4	C	12	0	0	0	0
4	D	12	0	0	0	0
All	All	17652	0	17100	3289	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 95.

All (3289) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:ILE:HB	1:D:2:TRP:CE2	1.18	1.70
1:C:87:PRO:HG3	1:D:43:ALA:CB	1.22	1.65
1:C:87:PRO:CG	1:D:43:ALA:CB	1.77	1.61
1:C:87:PRO:HG3	1:D:43:ALA:CA	1.16	1.58
1:D:464:ILE:HD12	1:D:465:PRO:CD	1.29	1.58
1:C:81:VAL:HG21	1:D:45:ASN:CB	1.32	1.55
1:C:87:PRO:CA	1:D:43:ALA:HB2	1.12	1.55
1:C:81:VAL:CG2	1:D:45:ASN:CB	1.80	1.54
1:A:24:ILE:CB	1:D:2:TRP:CE2	1.91	1.54
1:B:83:GLU:HB2	1:C:25:LYS:CD	1.10	1.54
1:B:464:ILE:HD12	1:B:465:PRO:CD	1.30	1.54
1:C:464:ILE:HD12	1:C:465:PRO:CD	1.30	1.54
1:A:464:ILE:HD12	1:A:465:PRO:CD	1.30	1.53
1:C:81:VAL:HG12	1:D:43:ALA:CB	1.33	1.53
1:C:83:GLU:HA	1:D:41:GLN:CD	1.24	1.53
1:C:81:VAL:CG1	1:D:43:ALA:HB3	1.40	1.52
1:B:31:PHE:HE1	1:D:75:VAL:CG1	1.22	1.50
1:C:1:ASP:HA	1:D:89:GLU:CD	1.21	1.48
1:B:83:GLU:CB	1:C:25:LYS:CD	1.87	1.48
1:B:33:LYS:N	1:C:25:LYS:HE2	1.26	1.47
1:A:24:ILE:CB	1:D:2:TRP:NE1	1.77	1.46
1:C:27:ASN:HD22	1:D:93:GLU:CB	1.26	1.46
1:A:1:ASP:N	1:B:94:ILE:HD11	1.18	1.45
1:C:32:ASN:H	1:D:75:VAL:CG2	1.24	1.45
1:C:79:HIS:CA	1:D:39:THR:HG21	1.24	1.45
1:C:87:PRO:CG	1:D:43:ALA:HA	1.38	1.43
1:B:31:PHE:N	1:C:30:ARG:HB2	1.31	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:464:ILE:CD1	1:C:465:PRO:HD2	1.50	1.42
1:C:79:HIS:HA	1:D:39:THR:CG2	1.09	1.41
1:A:2:TRP:CE2	1:B:80:ALA:CB	1.76	1.41
1:B:464:ILE:CD1	1:B:465:PRO:HD2	1.50	1.40
1:A:464:ILE:CD1	1:A:465:PRO:HD2	1.50	1.40
1:D:464:ILE:CD1	1:D:465:PRO:HD2	1.50	1.40
1:C:85:GLY:CA	1:D:42:GLY:N	1.83	1.38
1:B:31:PHE:HA	1:C:30:ARG:CA	1.54	1.38
1:C:81:VAL:CG2	1:D:45:ASN:HB2	0.91	1.37
1:C:83:GLU:HA	1:D:41:GLN:NE2	1.06	1.37
1:C:87:PRO:CD	1:D:43:ALA:HA	1.55	1.37
1:B:89:GLU:HA	1:D:1:ASP:CB	1.34	1.36
1:C:87:PRO:CA	1:D:43:ALA:CB	2.02	1.36
1:A:9:VAL:C	1:D:30:ARG:HD3	1.44	1.35
1:B:31:PHE:HA	1:C:30:ARG:N	1.38	1.35
1:C:1:ASP:N	1:D:28:LYS:HD3	1.37	1.34
1:A:90:GLU:HB3	1:B:3:VAL:C	1.46	1.33
1:C:83:GLU:CA	1:D:41:GLN:NE2	1.90	1.33
1:A:2:TRP:CD2	1:B:80:ALA:HB2	1.29	1.33
1:B:31:PHE:CE1	1:D:75:VAL:CG1	2.12	1.33
1:B:31:PHE:CE1	1:D:75:VAL:HG11	1.64	1.33
1:C:1:ASP:CA	1:D:89:GLU:CD	1.96	1.32
1:B:89:GLU:CA	1:D:1:ASP:CB	1.87	1.32
1:A:24:ILE:HB	1:D:2:TRP:NE1	1.02	1.32
1:C:90:GLU:HB3	1:D:79:HIS:O	1.28	1.31
1:C:1:ASP:O	1:D:28:LYS:NZ	1.63	1.31
1:C:87:PRO:CB	1:D:43:ALA:CB	2.09	1.31
1:C:27:ASN:ND2	1:D:93:GLU:CB	1.91	1.31
1:C:81:VAL:HG22	1:D:45:ASN:ND2	1.42	1.30
1:C:32:ASN:N	1:D:75:VAL:HG21	1.43	1.30
1:C:79:HIS:CB	1:D:44:ASP:OD1	1.81	1.29
1:C:85:GLY:HA2	1:D:42:GLY:N	1.40	1.28
1:C:32:ASN:N	1:D:75:VAL:CG2	1.92	1.27
1:A:2:TRP:CE2	1:B:80:ALA:HB2	0.95	1.27
1:A:4:ILE:CA	1:B:91:PRO:N	1.97	1.26
1:C:84:ASN:HB2	1:D:74:TYR:CE1	1.44	1.25
1:B:89:GLU:HA	1:D:1:ASP:CG	0.94	1.24
1:C:28:LYS:O	1:D:75:VAL:HG13	1.07	1.24
1:C:28:LYS:O	1:D:75:VAL:CG1	1.86	1.24
1:A:4:ILE:HA	1:B:91:PRO:N	1.20	1.23
1:A:91:PRO:N	1:B:3:VAL:HG22	1.51	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:GLU:HB2	1:C:25:LYS:CG	1.53	1.23
1:B:30:ARG:C	1:C:30:ARG:HB2	1.58	1.23
1:C:4:ILE:CG2	1:D:87:PRO:HG2	1.69	1.23
1:C:87:PRO:N	1:D:43:ALA:HB2	1.52	1.22
1:B:33:LYS:H	1:C:25:LYS:CE	1.52	1.22
1:C:90:GLU:OE1	1:D:53:ILE:CD1	1.85	1.22
1:A:2:TRP:CD2	1:B:80:ALA:CB	2.04	1.22
1:A:4:ILE:HA	1:B:90:GLU:C	1.59	1.22
1:C:1:ASP:HA	1:D:89:GLU:OE2	1.37	1.21
1:C:85:GLY:CA	1:D:42:GLY:CA	1.77	1.21
1:C:540:GLN:O	1:C:540:GLN:CD	1.79	1.21
1:B:86:SER:CA	1:D:90:GLU:HG3	1.62	1.20
1:C:87:PRO:CG	1:D:43:ALA:CA	1.85	1.20
1:C:84:ASN:HB2	1:D:74:TYR:CZ	1.43	1.20
1:B:540:GLN:O	1:B:540:GLN:CD	1.79	1.19
1:A:540:GLN:O	1:A:540:GLN:CD	1.79	1.19
1:C:31:PHE:HB2	1:D:95:THR:CG2	1.72	1.19
1:C:90:GLU:CA	1:D:79:HIS:H	1.53	1.19
1:B:32:ASN:HB2	1:C:29:ASP:OD2	1.41	1.19
1:B:83:GLU:N	1:C:25:LYS:HD3	1.56	1.19
1:C:84:ASN:CB	1:D:74:TYR:CE1	2.15	1.19
1:C:31:PHE:CB	1:D:95:THR:HG23	1.72	1.18
1:C:79:HIS:HB2	1:D:44:ASP:OD1	1.40	1.18
1:B:31:PHE:HE2	1:C:26:SER:O	1.25	1.18
1:D:450:GLN:HG2	1:D:532:CYS:O	1.43	1.18
1:C:450:GLN:HG2	1:C:532:CYS:O	1.43	1.18
1:D:8:LYS:H	1:D:8:LYS:HD2	1.04	1.18
1:D:540:GLN:O	1:D:540:GLN:CD	1.79	1.18
1:C:89:GLU:OE1	1:D:78:SER:OG	1.56	1.17
1:D:474:SER:HB2	1:D:512:LEU:HG	1.25	1.17
1:A:482:THR:HG23	1:A:499:THR:CG2	1.75	1.17
1:A:469:TYR:CG	1:A:470:PRO:HD2	1.81	1.16
1:B:89:GLU:CA	1:D:1:ASP:HB2	1.41	1.16
1:B:482:THR:HG23	1:B:499:THR:CG2	1.75	1.16
1:D:423:THR:HB	2:D:810:NAG:C7	1.76	1.16
1:D:482:THR:HG23	1:D:499:THR:CG2	1.75	1.16
1:B:423:THR:HB	2:B:810:NAG:C7	1.76	1.16
1:B:469:TYR:CG	1:B:470:PRO:HD2	1.81	1.16
1:B:83:GLU:CB	1:C:25:LYS:HD2	1.55	1.16
1:C:87:PRO:CD	1:D:43:ALA:CA	2.16	1.16
1:A:338:ARG:HD3	1:A:352:ILE:HG22	1.26	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1:ASP:N	1:D:88:VAL:HG12	1.61	1.16
1:C:482:THR:HG23	1:C:499:THR:CG2	1.75	1.16
1:D:234:GLU:H	1:D:235:ILE:HG23	1.08	1.16
1:C:35:TYR:O	1:D:45:ASN:ND2	1.76	1.15
1:D:338:ARG:HD3	1:D:352:ILE:HG22	1.26	1.15
1:B:234:GLU:H	1:B:235:ILE:HG23	1.08	1.15
1:C:469:TYR:CG	1:C:470:PRO:HD2	1.81	1.15
1:A:450:GLN:HG2	1:A:532:CYS:O	1.43	1.15
1:D:469:TYR:CG	1:D:470:PRO:HD2	1.80	1.15
1:C:83:GLU:CA	1:D:41:GLN:CD	2.11	1.15
1:C:91:PRO:CB	1:D:37:SER:OG	1.93	1.15
1:B:31:PHE:CA	1:C:30:ARG:N	2.08	1.14
1:C:87:PRO:CB	1:D:43:ALA:HB1	1.72	1.14
1:C:87:PRO:CB	1:D:43:ALA:HB2	1.75	1.14
1:B:450:GLN:HG2	1:B:532:CYS:O	1.43	1.14
1:C:423:THR:HB	2:C:810:NAG:C7	1.76	1.14
1:A:423:THR:HB	2:A:810:NAG:C7	1.76	1.13
1:C:8:LYS:H	1:C:8:LYS:HD2	1.04	1.13
1:B:30:ARG:C	1:C:30:ARG:CB	2.16	1.13
1:C:403:ASN:HB2	2:C:902:NAG:H83	1.30	1.13
1:A:9:VAL:C	1:D:30:ARG:CD	2.18	1.13
1:B:32:ASN:CB	1:C:29:ASP:OD2	1.96	1.13
1:C:81:VAL:HG23	1:D:45:ASN:HB2	1.28	1.13
1:C:84:ASN:CB	1:D:74:TYR:CZ	2.23	1.13
1:B:84:ASN:OD1	1:C:26:SER:CA	1.85	1.12
1:B:89:GLU:CA	1:D:1:ASP:CG	1.90	1.12
1:C:93:GLU:OE2	1:D:85:GLY:HA2	1.43	1.12
1:C:27:ASN:ND2	1:D:93:GLU:HB3	1.58	1.12
1:C:79:HIS:CA	1:D:39:THR:CG2	1.84	1.12
1:D:32:ASN:HD21	1:D:83:GLU:HB2	0.98	1.12
1:A:8:LYS:H	1:A:8:LYS:HD2	1.04	1.12
1:B:154:ASP:C	2:B:801:NAG:H82	1.70	1.12
1:C:31:PHE:HB2	1:D:95:THR:HG21	1.32	1.12
1:D:403:ASN:HB2	2:D:902:NAG:H83	1.30	1.12
1:B:89:GLU:N	1:D:1:ASP:HB2	1.65	1.11
1:B:301:THR:HG21	2:B:805:NAG:H82	1.29	1.11
1:A:403:ASN:HB2	2:A:902:NAG:H83	1.30	1.11
1:C:31:PHE:HB3	1:D:75:VAL:HG22	1.23	1.11
1:C:338:ARG:HD3	1:C:352:ILE:HG22	1.26	1.11
1:A:154:ASP:C	2:A:801:NAG:H82	1.70	1.11
1:B:83:GLU:H	1:C:25:LYS:HD3	0.97	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:154:ASP:C	2:D:801:NAG:H82	1.70	1.11
1:A:1:ASP:N	1:B:94:ILE:CD1	2.13	1.11
1:A:90:GLU:HB3	1:B:3:VAL:CA	1.70	1.10
1:B:222:ASP:O	1:B:222:ASP:OD1	1.69	1.10
1:C:474:SER:HB2	1:C:512:LEU:HG	1.25	1.10
1:B:83:GLU:CG	1:C:25:LYS:HD2	1.82	1.10
1:A:90:GLU:HG3	1:B:3:VAL:HG23	1.24	1.10
1:A:222:ASP:OD1	1:A:222:ASP:O	1.69	1.10
1:A:234:GLU:H	1:A:235:ILE:HG23	1.08	1.10
1:B:474:SER:HB2	1:B:512:LEU:HG	1.25	1.09
1:C:90:GLU:OE2	1:D:53:ILE:CG2	2.00	1.09
1:C:91:PRO:CA	1:D:37:SER:OG	1.81	1.09
1:A:227:THR:HG21	2:A:807:NAG:C8	1.82	1.09
1:C:86:SER:N	1:D:42:GLY:HA3	0.97	1.09
1:C:222:ASP:OD1	1:C:222:ASP:O	1.69	1.09
1:B:86:SER:CA	1:D:90:GLU:CA	2.30	1.09
1:C:154:ASP:C	2:C:801:NAG:H82	1.70	1.09
1:C:227:THR:HG21	2:C:807:NAG:C8	1.82	1.09
1:D:482:THR:HG23	1:D:499:THR:HG22	1.09	1.09
1:A:9:VAL:CA	1:D:30:ARG:HD3	1.83	1.09
1:C:482:THR:HG23	1:C:499:THR:HG22	1.09	1.09
1:A:32:ASN:HD21	1:A:83:GLU:HB2	0.98	1.09
1:B:227:THR:HG21	2:B:807:NAG:C8	1.82	1.08
1:C:32:ASN:HD21	1:C:83:GLU:HB2	0.98	1.08
1:D:227:THR:HG21	2:D:807:NAG:C8	1.82	1.08
1:C:234:GLU:H	1:C:235:ILE:HG23	1.08	1.08
1:A:474:SER:HB2	1:A:512:LEU:HG	1.25	1.08
1:B:8:LYS:H	1:B:8:LYS:HD2	1.04	1.08
1:C:31:PHE:CB	1:D:95:THR:CG2	2.29	1.08
1:D:222:ASP:OD1	1:D:222:ASP:O	1.69	1.08
1:D:301:THR:HG21	2:D:805:NAG:H82	1.29	1.08
1:B:33:LYS:N	1:C:25:LYS:CE	2.13	1.08
1:A:301:THR:HG21	2:A:805:NAG:H82	1.29	1.07
1:C:31:PHE:CE2	1:D:74:TYR:N	2.21	1.07
1:C:87:PRO:HA	1:D:43:ALA:HB2	1.11	1.07
1:C:90:GLU:OE1	1:D:53:ILE:HD13	0.90	1.07
1:C:301:THR:HG21	2:C:805:NAG:H82	1.29	1.07
1:B:31:PHE:CA	1:C:30:ARG:HB2	1.85	1.07
1:A:290:PHE:HB2	1:A:292:LEU:N	1.69	1.07
1:B:335:ALA:HB1	3:B:811:NDG:O6	1.54	1.07
1:B:482:THR:HG23	1:B:499:THR:HG22	1.09	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:29:ASP:HA	1:D:75:VAL:HG11	1.31	1.07
1:C:450:GLN:CG	1:C:532:CYS:O	2.03	1.07
1:C:89:GLU:N	1:D:38:ILE:HG13	1.69	1.07
1:A:450:GLN:CG	1:A:532:CYS:O	2.02	1.06
1:C:81:VAL:HG22	1:D:45:ASN:CG	1.74	1.06
1:C:87:PRO:HD3	1:D:43:ALA:HA	1.32	1.06
1:C:290:PHE:HB2	1:C:292:LEU:N	1.69	1.06
1:B:450:GLN:CG	1:B:532:CYS:O	2.03	1.06
1:C:1:ASP:H2	1:D:88:VAL:CG1	1.66	1.06
1:A:337:SER:HA	1:A:427:ILE:HG23	1.38	1.06
1:B:290:PHE:HB2	1:B:292:LEU:N	1.69	1.06
1:C:4:ILE:HG22	1:D:87:PRO:HB2	1.38	1.06
1:C:485:ALA:O	1:C:486:GLU:HG2	1.54	1.06
1:A:482:THR:HG23	1:A:499:THR:HG22	1.09	1.06
1:A:485:ALA:O	1:A:486:GLU:HG2	1.55	1.06
1:B:403:ASN:HB2	2:B:902:NAG:H83	1.30	1.06
1:D:290:PHE:HB2	1:D:292:LEU:N	1.69	1.06
1:A:335:ALA:HB1	3:A:811:NDG:O6	1.54	1.06
1:B:338:ARG:HD3	1:B:352:ILE:HG22	1.26	1.06
1:D:469:TYR:CD1	1:D:470:PRO:HD2	1.91	1.06
1:A:24:ILE:CA	1:D:2:TRP:CE2	2.23	1.05
1:B:469:TYR:CD1	1:B:470:PRO:HD2	1.92	1.05
1:C:84:ASN:C	1:D:74:TYR:CE2	2.28	1.05
1:D:335:ALA:HB1	3:D:811:NDG:O6	1.54	1.05
1:D:450:GLN:CG	1:D:532:CYS:O	2.03	1.05
1:B:485:ALA:O	1:B:486:GLU:HG2	1.55	1.05
1:A:464:ILE:CD1	1:A:465:PRO:CD	2.20	1.05
1:B:337:SER:HA	1:B:427:ILE:HG23	1.38	1.05
1:C:81:VAL:HG21	1:D:45:ASN:CA	1.87	1.05
1:C:335:ALA:HB1	3:C:811:NDG:O6	1.54	1.05
1:A:3:VAL:HG22	1:B:78:SER:H	1.21	1.04
1:A:8:LYS:HE3	1:D:28:LYS:HG3	1.39	1.04
1:C:31:PHE:HE2	1:D:73:LYS:C	1.50	1.04
1:C:82:SER:CB	1:D:75:VAL:H	1.70	1.04
1:C:522:LEU:HD22	1:C:523:THR:HB	1.39	1.04
1:D:485:ALA:O	1:D:486:GLU:HG2	1.54	1.04
1:B:31:PHE:CE2	1:C:26:SER:O	2.09	1.04
1:B:84:ASN:ND2	1:D:91:PRO:HB2	1.71	1.04
1:C:31:PHE:CG	1:D:95:THR:HG23	1.92	1.04
1:C:87:PRO:HG3	1:D:43:ALA:HB1	1.17	1.04
1:C:90:GLU:OE2	1:D:53:ILE:HG21	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:GLU:CB	1:D:79:HIS:O	2.05	1.04
1:C:469:TYR:CD1	1:C:470:PRO:HD2	1.92	1.04
1:A:24:ILE:HA	1:D:2:TRP:CG	1.60	1.04
1:A:290:PHE:HB2	1:A:292:LEU:H	0.88	1.04
1:B:464:ILE:CD1	1:B:465:PRO:CD	2.20	1.04
1:C:87:PRO:CG	1:D:43:ALA:HB1	1.61	1.04
1:D:464:ILE:CD1	1:D:465:PRO:CD	2.20	1.04
1:D:522:LEU:HD22	1:D:523:THR:HB	1.39	1.04
1:A:469:TYR:CD1	1:A:470:PRO:HD2	1.92	1.04
1:C:482:THR:HG21	1:C:499:THR:H	1.23	1.04
1:C:81:VAL:HG11	1:D:45:ASN:H	1.21	1.03
1:A:482:THR:CG2	1:A:499:THR:N	2.22	1.03
1:C:464:ILE:CD1	1:C:465:PRO:CD	2.20	1.03
1:C:482:THR:CG2	1:C:499:THR:N	2.22	1.03
1:A:1:ASP:H2	1:B:94:ILE:HD11	1.20	1.02
1:B:84:ASN:OD1	1:C:26:SER:C	1.96	1.02
1:D:482:THR:CG2	1:D:499:THR:N	2.22	1.02
1:B:83:GLU:CB	1:C:25:LYS:HD3	1.76	1.02
1:A:482:THR:HG21	1:A:499:THR:H	1.23	1.02
1:C:90:GLU:N	1:D:79:HIS:N	2.07	1.02
1:C:450:GLN:HB2	1:C:533:GLU:HA	1.41	1.02
1:C:337:SER:HA	1:C:427:ILE:HG23	1.38	1.02
1:C:403:ASN:HB2	2:C:902:NAG:C8	1.90	1.02
1:B:482:THR:CG2	1:B:499:THR:N	2.22	1.02
1:C:81:VAL:HG22	1:D:45:ASN:HD22	1.02	1.02
1:C:90:GLU:N	1:D:79:HIS:H	1.54	1.02
1:C:290:PHE:HB2	1:C:292:LEU:H	0.88	1.02
1:A:432:ASP:OD2	1:A:464:ILE:HG22	1.60	1.01
1:C:1:ASP:N	1:D:88:VAL:CG1	2.21	1.01
1:C:81:VAL:CG1	1:D:44:ASP:H	1.73	1.01
1:B:403:ASN:HB2	2:B:902:NAG:C8	1.90	1.01
1:B:290:PHE:HB2	1:B:292:LEU:H	0.88	1.01
1:B:432:ASP:OD2	1:B:464:ILE:HG22	1.60	1.01
1:C:81:VAL:HG11	1:D:44:ASP:N	1.75	1.01
1:C:82:SER:HB3	1:D:75:VAL:H	1.23	1.01
1:A:24:ILE:HB	1:D:2:TRP:CZ2	1.96	1.01
1:A:522:LEU:HD22	1:A:523:THR:HB	1.39	1.01
1:B:274:ASP:O	1:B:278:ASN:HA	1.61	1.01
1:D:290:PHE:HB2	1:D:292:LEU:H	0.88	1.01
1:A:403:ASN:HB2	2:A:902:NAG:C8	1.90	1.01
1:C:79:HIS:CB	1:D:39:THR:CG2	2.37	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:89:GLU:OE1	1:D:78:SER:N	1.75	1.01
1:C:93:GLU:H	1:D:81:VAL:HG11	1.25	1.01
1:C:274:ASP:O	1:C:278:ASN:HA	1.61	1.01
1:D:274:ASP:O	1:D:278:ASN:HA	1.61	1.01
1:C:4:ILE:HG22	1:D:87:PRO:CB	1.90	1.00
1:B:31:PHE:N	1:C:30:ARG:CB	2.24	1.00
1:B:522:LEU:HD22	1:B:523:THR:HB	1.39	1.00
1:C:32:ASN:N	1:D:75:VAL:HG23	1.76	1.00
1:D:337:SER:HA	1:D:427:ILE:HG23	1.38	1.00
1:A:188:THR:HG23	1:A:208:ILE:HG12	1.43	1.00
1:A:274:ASP:O	1:A:278:ASN:HA	1.61	1.00
1:C:81:VAL:HG22	1:D:45:ASN:HB2	1.32	1.00
1:D:403:ASN:HB2	2:D:902:NAG:C8	1.90	1.00
1:A:523:THR:HG23	1:A:524:VAL:H	1.27	1.00
1:B:86:SER:HA	1:D:90:GLU:CA	1.39	1.00
1:C:432:ASP:OD2	1:C:464:ILE:HG22	1.60	1.00
1:C:523:THR:HG23	1:C:524:VAL:H	1.26	1.00
1:D:432:ASP:OD2	1:D:464:ILE:HG22	1.60	1.00
1:A:450:GLN:HB2	1:A:533:GLU:HA	1.41	0.99
1:C:1:ASP:H2	1:D:88:VAL:HG12	0.84	0.99
1:C:93:GLU:CB	1:D:81:VAL:HG11	1.92	0.99
1:B:31:PHE:HE2	1:C:26:SER:C	1.65	0.99
1:C:79:HIS:CB	1:D:39:THR:HG22	1.93	0.99
1:C:90:GLU:CB	1:D:79:HIS:H	1.74	0.99
1:C:188:THR:HG23	1:C:208:ILE:HG12	1.43	0.99
1:B:482:THR:HG21	1:B:499:THR:H	1.23	0.99
1:B:320:THR:HG21	2:B:807:NAG:N2	1.78	0.99
1:C:4:ILE:CG2	1:D:87:PRO:CG	2.41	0.99
1:D:188:THR:HG23	1:D:208:ILE:HG12	1.43	0.99
1:D:450:GLN:HB2	1:D:533:GLU:HA	1.41	0.99
1:D:482:THR:HG21	1:D:499:THR:H	1.23	0.99
1:B:523:THR:HG23	1:B:524:VAL:H	1.26	0.98
1:B:31:PHE:HA	1:C:30:ARG:CB	1.92	0.98
1:B:450:GLN:HB2	1:B:533:GLU:HA	1.41	0.98
1:A:482:THR:CG2	1:A:499:THR:H	1.76	0.98
1:A:10:SER:N	1:D:30:ARG:CD	2.27	0.98
1:C:2:TRP:H	1:D:89:GLU:HA	1.23	0.98
1:A:320:THR:HG21	2:A:807:NAG:N2	1.78	0.98
1:B:82:SER:HB3	1:C:27:ASN:HB3	1.44	0.98
1:C:1:ASP:N	1:D:28:LYS:CD	2.25	0.98
1:D:482:THR:CG2	1:D:499:THR:H	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:91:PRO:HA	1:D:79:HIS:CD2	1.96	0.98
1:C:482:THR:CG2	1:C:499:THR:H	1.76	0.98
1:B:30:ARG:O	1:C:30:ARG:HG3	1.64	0.97
1:C:320:THR:HG21	2:C:807:NAG:N2	1.78	0.97
1:D:523:THR:HG23	1:D:524:VAL:H	1.26	0.97
1:C:31:PHE:CG	1:D:95:THR:CG2	2.47	0.97
1:D:8:LYS:H	1:D:8:LYS:CD	1.74	0.97
1:B:366:LYS:HG3	1:B:367:LEU:H	1.28	0.97
1:B:86:SER:CA	1:D:90:GLU:CG	2.20	0.97
1:C:8:LYS:H	1:C:8:LYS:CD	1.74	0.97
1:B:188:THR:HG23	1:B:208:ILE:HG12	1.43	0.97
1:A:366:LYS:HG3	1:A:367:LEU:H	1.28	0.97
1:B:87:PRO:HG2	1:C:2:TRP:HB2	1.45	0.97
1:D:320:THR:HG21	2:D:807:NAG:N2	1.78	0.97
1:C:80:ALA:HB3	1:D:77:SER:HB3	1.45	0.97
1:D:366:LYS:HG3	1:D:367:LEU:H	1.28	0.97
1:C:4:ILE:HG23	1:D:87:PRO:HG2	1.45	0.96
1:C:81:VAL:HG22	1:D:45:ASN:CB	1.78	0.96
1:A:32:ASN:HD21	1:A:83:GLU:CB	1.79	0.96
1:C:27:ASN:HD22	1:D:93:GLU:HB2	0.80	0.96
1:C:87:PRO:HA	1:D:43:ALA:CB	1.77	0.96
1:B:235:ILE:CG1	1:B:287:GLY:HA2	1.96	0.96
1:C:32:ASN:HD21	1:C:83:GLU:CB	1.79	0.96
1:C:81:VAL:HG13	1:D:44:ASP:OD2	1.64	0.96
1:C:86:SER:HA	1:D:42:GLY:C	1.83	0.96
1:D:482:THR:HG21	1:D:499:THR:N	1.81	0.96
1:B:482:THR:CG2	1:B:499:THR:H	1.76	0.96
1:A:3:VAL:HG22	1:B:78:SER:N	1.79	0.96
1:A:227:THR:HG21	2:A:807:NAG:H83	1.48	0.96
1:A:235:ILE:CG1	1:A:287:GLY:HA2	1.96	0.96
1:A:482:THR:HG21	1:A:499:THR:N	1.81	0.96
1:C:81:VAL:CG1	1:D:44:ASP:N	2.27	0.96
1:B:31:PHE:CA	1:C:30:ARG:H	1.75	0.96
1:C:27:ASN:ND2	1:D:93:GLU:H	1.62	0.96
1:C:320:THR:HG21	2:C:807:NAG:HN2	1.31	0.96
1:B:83:GLU:HB2	1:C:25:LYS:HD2	0.96	0.95
1:C:31:PHE:HE2	1:D:74:TYR:N	1.59	0.95
1:C:235:ILE:CG1	1:C:287:GLY:HA2	1.96	0.95
1:A:24:ILE:HB	1:D:2:TRP:HE1	1.28	0.95
1:B:31:PHE:CB	1:C:30:ARG:H	1.79	0.95
1:C:88:VAL:HG12	1:D:94:ILE:HB	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:88:VAL:O	1:D:94:ILE:HD12	1.65	0.95
1:B:320:THR:HG21	2:B:807:NAG:HN2	1.31	0.95
1:C:81:VAL:HB	1:D:41:GLN:C	1.86	0.95
1:A:2:TRP:NE1	1:B:80:ALA:HB2	1.82	0.95
1:A:24:ILE:CA	1:D:2:TRP:CG	2.39	0.95
1:A:90:GLU:CB	1:B:3:VAL:C	2.35	0.95
1:B:86:SER:N	1:D:90:GLU:HG3	1.44	0.95
1:C:1:ASP:H2	1:D:28:LYS:HD3	0.96	0.95
1:A:2:TRP:C	1:B:92:MET:HB2	1.79	0.95
1:A:90:GLU:CG	1:B:3:VAL:HG23	1.96	0.95
1:B:227:THR:HG21	2:B:807:NAG:H83	1.48	0.95
1:B:31:PHE:HE1	1:D:75:VAL:HG11	0.78	0.94
1:D:235:ILE:CG1	1:D:287:GLY:HA2	1.96	0.94
1:C:87:PRO:CA	1:D:76:LEU:HD22	1.96	0.94
1:A:24:ILE:HA	1:D:2:TRP:CD1	2.02	0.94
1:A:290:PHE:CB	1:A:292:LEU:H	1.79	0.94
1:B:366:LYS:CG	1:B:367:LEU:H	1.80	0.94
1:B:482:THR:HG21	1:B:499:THR:N	1.81	0.94
1:A:1:ASP:H3	1:B:94:ILE:CD1	1.73	0.94
1:A:4:ILE:CA	1:B:90:GLU:C	2.33	0.94
1:C:87:PRO:C	1:D:76:LEU:HD22	1.88	0.94
1:A:89:GLU:OE1	1:B:2:TRP:HB3	1.65	0.94
1:C:289:ASP:O	1:C:290:PHE:HB3	1.67	0.94
1:D:366:LYS:CG	1:D:367:LEU:H	1.80	0.94
1:B:83:GLU:CA	1:C:25:LYS:HD3	1.97	0.94
1:C:91:PRO:CA	1:D:79:HIS:CD2	2.50	0.94
1:C:90:GLU:HB3	1:D:79:HIS:C	1.87	0.94
1:D:227:THR:HG21	2:D:807:NAG:H83	1.48	0.94
1:D:290:PHE:CB	1:D:292:LEU:H	1.79	0.94
1:A:8:LYS:H	1:A:8:LYS:CD	1.74	0.94
1:C:290:PHE:CB	1:C:292:LEU:H	1.79	0.94
1:D:32:ASN:HD21	1:D:83:GLU:CB	1.79	0.94
1:C:366:LYS:HG3	1:C:367:LEU:H	1.28	0.94
1:A:99:ILE:HG21	1:D:30:ARG:HH12	1.29	0.93
1:C:27:ASN:HD22	1:C:28:LYS:N	1.66	0.93
1:C:91:PRO:HB2	1:D:37:SER:OG	1.65	0.93
1:A:195:ASP:HB2	1:A:201:LEU:H	1.34	0.93
1:B:396:ARG:HH22	1:B:464:ILE:HB	1.33	0.93
1:C:352:ILE:HG13	1:C:388:VAL:HB	1.51	0.93
1:D:352:ILE:HG13	1:D:388:VAL:HB	1.51	0.93
1:B:227:THR:HG21	2:B:807:NAG:C7	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:87:PRO:HD3	1:D:43:ALA:CA	1.92	0.93
1:C:366:LYS:CG	1:C:367:LEU:H	1.80	0.93
1:A:27:ASN:HD22	1:A:28:LYS:N	1.66	0.93
1:C:32:ASN:ND2	1:C:83:GLU:HB2	1.83	0.93
1:C:227:THR:HG21	2:C:807:NAG:H83	1.48	0.93
1:C:464:ILE:HD12	1:C:465:PRO:HD2	0.94	0.93
1:A:366:LYS:CG	1:A:367:LEU:H	1.80	0.93
1:A:396:ARG:HH22	1:A:464:ILE:HB	1.33	0.93
1:B:27:ASN:HD22	1:B:28:LYS:N	1.66	0.93
1:A:1:ASP:HA	1:B:24:ILE:HG21	1.51	0.93
1:A:24:ILE:CB	1:D:2:TRP:CD1	2.52	0.93
1:A:24:ILE:CG2	1:D:2:TRP:NE1	2.32	0.92
1:B:290:PHE:CB	1:B:292:LEU:H	1.79	0.92
1:B:464:ILE:HD12	1:B:465:PRO:HD2	0.94	0.92
1:D:195:ASP:HB2	1:D:201:LEU:H	1.34	0.92
1:A:90:GLU:C	1:B:3:VAL:HG22	1.85	0.92
1:A:320:THR:HG21	2:A:807:NAG:HN2	1.31	0.92
1:A:446:THR:HG23	1:A:539:CYS:SG	2.09	0.92
1:A:464:ILE:HD12	1:A:465:PRO:HD2	0.94	0.92
1:B:32:ASN:CA	1:C:29:ASP:OD2	2.17	0.92
1:B:404:ASN:ND2	1:B:404:ASN:O	2.03	0.92
1:C:27:ASN:ND2	1:D:93:GLU:HB2	1.65	0.92
1:D:464:ILE:HD12	1:D:465:PRO:HD2	0.94	0.92
1:A:227:THR:HG21	2:A:807:NAG:C7	1.99	0.92
1:C:81:VAL:HB	1:D:41:GLN:CA	1.86	0.92
1:C:404:ASN:O	1:C:404:ASN:ND2	2.03	0.92
1:D:289:ASP:O	1:D:290:PHE:HB3	1.67	0.92
1:D:320:THR:HG21	2:D:807:NAG:HN2	1.31	0.92
1:B:403:ASN:HB2	2:B:902:NAG:C7	2.00	0.92
1:C:86:SER:N	1:D:41:GLN:O	2.01	0.92
1:D:27:ASN:HD22	1:D:28:LYS:N	1.66	0.92
1:D:446:THR:HG23	1:D:539:CYS:SG	2.10	0.92
1:B:31:PHE:CA	1:C:30:ARG:CB	2.48	0.92
1:A:32:ASN:ND2	1:A:83:GLU:HB2	1.84	0.92
1:C:88:VAL:HG22	1:D:76:LEU:HD23	1.47	0.92
1:C:195:ASP:HB2	1:C:201:LEU:H	1.34	0.92
2:C:805:NAG:H62	2:C:806:NAG:C7	2.00	0.92
1:D:227:THR:HG21	2:D:807:NAG:C7	1.99	0.92
1:D:396:ARG:HH22	1:D:464:ILE:HB	1.33	0.92
1:C:87:PRO:HD3	1:D:42:GLY:O	1.69	0.92
1:C:227:THR:HG21	2:C:807:NAG:C7	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:446:THR:HG23	1:C:539:CYS:SG	2.10	0.92
2:A:805:NAG:H62	2:A:806:NAG:C7	1.99	0.91
1:B:446:THR:HG23	1:B:539:CYS:SG	2.10	0.91
1:C:1:ASP:H3	1:D:88:VAL:HB	1.35	0.91
1:C:340:ASP:HA	1:C:429:HIS:HB3	1.53	0.91
1:D:32:ASN:ND2	1:D:83:GLU:HB2	1.84	0.91
1:A:403:ASN:HB2	2:A:902:NAG:C7	2.00	0.91
1:A:404:ASN:O	1:A:404:ASN:ND2	2.03	0.91
1:C:86:SER:H	1:D:74:TYR:HD2	1.16	0.91
1:C:517:GLN:O	1:C:519:ASN:N	2.03	0.91
1:D:335:ALA:CB	3:D:811:NDG:O6	2.18	0.91
1:B:234:GLU:N	1:B:235:ILE:HG23	1.86	0.91
1:A:335:ALA:CB	3:A:811:NDG:O6	2.18	0.91
1:B:83:GLU:H	1:C:25:LYS:CD	1.84	0.91
1:B:335:ALA:CB	3:B:811:NDG:O6	2.18	0.91
1:C:1:ASP:O	1:D:28:LYS:CE	2.19	0.91
1:A:340:ASP:HA	1:A:429:HIS:HB3	1.53	0.91
1:B:289:ASP:O	1:B:290:PHE:HB3	1.67	0.91
2:C:805:NAG:O5	2:C:806:NAG:H83	1.71	0.91
1:A:10:SER:N	1:D:30:ARG:HD3	1.86	0.91
1:C:90:GLU:CD	1:D:53:ILE:HG21	1.89	0.91
1:C:396:ARG:HH22	1:C:464:ILE:HB	1.33	0.91
1:C:403:ASN:HB2	2:C:902:NAG:C7	2.00	0.91
1:D:403:ASN:HB2	2:D:902:NAG:C7	2.00	0.91
1:B:83:GLU:CG	1:C:25:LYS:CD	2.45	0.91
2:B:805:NAG:H62	2:B:806:NAG:C7	2.00	0.91
1:A:289:ASP:O	1:A:290:PHE:HB3	1.67	0.90
1:B:31:PHE:CE2	1:C:26:SER:C	2.45	0.90
1:B:352:ILE:HG13	1:B:388:VAL:HB	1.51	0.90
1:B:378:TRP:HB2	1:B:379:LEU:HD23	1.53	0.90
1:A:378:TRP:HB2	1:A:379:LEU:HD23	1.53	0.90
1:B:30:ARG:C	1:C:30:ARG:CG	2.31	0.90
1:D:234:GLU:N	1:D:235:ILE:HG23	1.86	0.90
2:D:805:NAG:O5	2:D:806:NAG:H83	1.71	0.90
1:C:79:HIS:HB3	1:D:44:ASP:OD1	1.70	0.90
1:D:8:LYS:HD2	1:D:8:LYS:N	1.87	0.90
1:D:517:GLN:O	1:D:519:ASN:N	2.03	0.90
1:A:154:ASP:HB3	1:A:155:PRO:HD2	1.54	0.90
1:C:1:ASP:HA	1:D:89:GLU:OE1	1.68	0.90
1:C:87:PRO:CD	1:D:43:ALA:CB	2.48	0.90
2:D:805:NAG:H62	2:D:806:NAG:C7	1.99	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:ILE:CB	1:D:2:TRP:CZ2	2.54	0.90
1:B:464:ILE:HD11	1:B:465:PRO:HD2	1.53	0.90
1:B:517:GLN:O	1:B:519:ASN:N	2.03	0.90
1:C:396:ARG:NH2	1:C:464:ILE:CG2	2.35	0.90
1:D:340:ASP:HA	1:D:429:HIS:HB3	1.53	0.90
1:D:404:ASN:O	1:D:404:ASN:ND2	2.03	0.90
1:C:374:ASP:O	1:C:375:PRO:C	2.06	0.90
1:C:378:TRP:HB2	1:C:379:LEU:HD23	1.53	0.90
1:A:396:ARG:NH2	1:A:464:ILE:CG2	2.35	0.90
2:A:805:NAG:O5	2:A:806:NAG:H83	1.71	0.90
1:B:154:ASP:HB3	1:B:155:PRO:HD2	1.54	0.90
1:C:234:GLU:N	1:C:235:ILE:HG23	1.86	0.90
1:A:234:GLU:N	1:A:235:ILE:HG23	1.86	0.90
1:C:335:ALA:CB	3:C:811:NDG:O6	2.18	0.90
1:C:90:GLU:OE2	1:D:53:ILE:HG23	1.72	0.89
1:B:396:ARG:NH2	1:B:464:ILE:CG2	2.35	0.89
1:B:518:ASN:O	1:B:520:PRO:HD3	1.72	0.89
1:A:523:THR:HG23	1:A:524:VAL:CG2	2.03	0.89
1:B:8:LYS:H	1:B:8:LYS:CD	1.74	0.89
1:B:195:ASP:HB2	1:B:201:LEU:H	1.34	0.89
1:C:8:LYS:HD2	1:C:8:LYS:N	1.87	0.89
1:C:81:VAL:CG2	1:D:45:ASN:HD22	1.85	0.89
1:D:449:ASP:H	1:D:532:CYS:HB3	1.37	0.89
1:A:338:ARG:HD3	1:A:352:ILE:CG2	2.02	0.89
1:C:93:GLU:H	1:D:81:VAL:CG1	1.86	0.89
2:B:805:NAG:O5	2:B:806:NAG:H83	1.71	0.89
1:C:371:ILE:CD1	1:C:381:VAL:HG11	2.03	0.89
1:C:518:ASN:O	1:C:520:PRO:HD3	1.72	0.89
1:D:154:ASP:HB3	1:D:155:PRO:HD2	1.54	0.89
1:D:523:THR:HG23	1:D:524:VAL:CG2	2.03	0.89
1:D:338:ARG:HD3	1:D:352:ILE:CG2	2.02	0.89
1:A:517:GLN:O	1:A:519:ASN:N	2.03	0.89
1:A:8:LYS:CE	1:D:28:LYS:HG3	2.03	0.89
1:D:464:ILE:HD12	1:D:465:PRO:HD3	1.53	0.89
1:D:518:ASN:O	1:D:520:PRO:HD3	1.72	0.89
1:A:4:ILE:HA	1:B:91:PRO:CD	1.94	0.89
1:A:8:LYS:HD2	1:A:8:LYS:N	1.87	0.89
1:B:464:ILE:HD12	1:B:465:PRO:HD3	1.53	0.89
1:A:221:PHE:HE1	1:A:315:SER:O	1.56	0.89
1:B:31:PHE:CA	1:C:30:ARG:CA	2.49	0.89
1:B:85:GLY:C	1:D:91:PRO:HD2	1.92	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:PHE:HE1	1:B:315:SER:O	1.56	0.89
1:C:154:ASP:HB3	1:C:155:PRO:HD2	1.54	0.89
1:D:221:PHE:HE1	1:D:315:SER:O	1.56	0.89
1:A:24:ILE:HG22	1:D:2:TRP:CD1	2.08	0.88
1:A:352:ILE:HG13	1:A:388:VAL:HB	1.51	0.88
1:B:449:ASP:H	1:B:532:CYS:HB3	1.37	0.88
1:C:318:THR:HG21	2:C:806:NAG:H5	1.55	0.88
1:B:371:ILE:CD1	1:B:381:VAL:HG11	2.03	0.88
1:C:89:GLU:OE1	1:D:78:SER:CB	2.21	0.88
1:A:449:ASP:H	1:A:532:CYS:HB3	1.37	0.88
1:B:8:LYS:HD2	1:B:8:LYS:N	1.87	0.88
1:C:31:PHE:HB3	1:D:75:VAL:CG2	2.02	0.88
1:C:81:VAL:HG13	1:D:40:GLY:H	1.38	0.88
1:C:464:ILE:HD12	1:C:465:PRO:HD3	1.53	0.88
1:C:486:GLU:HB2	1:C:495:LEU:HB2	1.56	0.88
1:D:396:ARG:NH2	1:D:464:ILE:CG2	2.35	0.88
1:A:3:VAL:HG23	1:B:91:PRO:HB3	1.55	0.88
1:C:338:ARG:HD3	1:C:352:ILE:CG2	2.02	0.88
1:B:523:THR:HG23	1:B:524:VAL:CG2	2.03	0.88
1:A:91:PRO:HA	1:B:1:ASP:O	1.73	0.88
1:A:374:ASP:O	1:A:375:PRO:C	2.06	0.88
1:B:338:ARG:HD3	1:B:352:ILE:CG2	2.02	0.88
1:C:464:ILE:HD11	1:C:465:PRO:HD2	1.53	0.88
1:C:482:THR:HG21	1:C:499:THR:N	1.81	0.88
1:D:378:TRP:HB2	1:D:379:LEU:HD23	1.53	0.88
1:A:464:ILE:HD11	1:A:465:PRO:HD2	1.53	0.88
1:C:449:ASP:H	1:C:532:CYS:HB3	1.37	0.88
1:A:343:GLU:HB3	1:A:433:VAL:HG21	1.55	0.88
1:A:486:GLU:HB2	1:A:495:LEU:HB2	1.56	0.88
1:C:483:TRP:CZ3	1:C:498:PRO:HG3	2.09	0.88
1:C:523:THR:HG23	1:C:524:VAL:CG2	2.03	0.88
1:B:483:TRP:CZ3	1:B:498:PRO:HG3	2.09	0.88
1:C:89:GLU:OE1	1:D:78:SER:CA	2.22	0.88
1:D:371:ILE:CD1	1:D:381:VAL:HG11	2.03	0.88
1:D:464:ILE:HD11	1:D:465:PRO:HD2	1.53	0.88
1:A:518:ASN:O	1:A:520:PRO:HD3	1.72	0.88
1:C:343:GLU:HB3	1:C:433:VAL:HG21	1.55	0.87
1:D:333:VAL:HB	1:D:334:PRO:HD3	1.56	0.87
1:D:483:TRP:CZ3	1:D:498:PRO:HG3	2.09	0.87
1:B:340:ASP:HA	1:B:429:HIS:HB3	1.53	0.87
1:B:257:ALA:O	1:B:273:THR:HG21	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:GLU:CD	1:D:53:ILE:HD13	1.95	0.87
1:C:440:PRO:CD	1:C:522:LEU:HD12	2.05	0.87
1:A:371:ILE:CD1	1:A:381:VAL:HG11	2.03	0.87
1:D:441:SER:OG	1:D:442:PRO:HD3	1.75	0.87
1:A:440:PRO:CD	1:A:522:LEU:HD12	2.05	0.87
1:C:257:ALA:O	1:C:273:THR:HG21	1.74	0.87
1:B:318:THR:HG21	2:B:806:NAG:H5	1.56	0.86
1:C:35:TYR:HD2	1:D:45:ASN:OD1	1.55	0.86
1:A:318:THR:HG21	2:A:806:NAG:H5	1.56	0.86
1:D:374:ASP:O	1:D:375:PRO:C	2.06	0.86
1:A:320:THR:HG21	2:A:807:NAG:C2	2.05	0.86
1:B:333:VAL:HB	1:B:334:PRO:HD3	1.56	0.86
1:B:343:GLU:HB3	1:B:433:VAL:HG21	1.55	0.86
1:C:81:VAL:CG1	1:D:45:ASN:H	1.87	0.86
1:C:221:PHE:HE1	1:C:315:SER:O	1.56	0.86
1:C:320:THR:HG21	2:C:807:NAG:C2	2.05	0.86
1:B:320:THR:HG21	2:B:807:NAG:C2	2.05	0.86
1:A:257:ALA:O	1:A:273:THR:HG21	1.74	0.86
1:B:486:GLU:HB2	1:B:495:LEU:HB2	1.56	0.86
1:C:333:VAL:HB	1:C:334:PRO:HD3	1.56	0.86
1:A:483:TRP:CZ3	1:A:498:PRO:HG3	2.09	0.86
1:B:374:ASP:O	1:B:375:PRO:C	2.06	0.86
1:C:82:SER:HB3	1:D:75:VAL:N	1.89	0.86
1:B:440:PRO:CD	1:B:522:LEU:HD12	2.05	0.86
1:B:441:SER:OG	1:B:442:PRO:HD3	1.75	0.86
1:A:99:ILE:HG21	1:D:30:ARG:NH1	1.90	0.86
1:A:441:SER:OG	1:A:442:PRO:HD3	1.75	0.86
1:C:91:PRO:CA	1:D:79:HIS:HD2	1.89	0.86
1:D:486:GLU:HB2	1:D:495:LEU:HB2	1.56	0.86
1:C:87:PRO:HD2	1:D:51:PHE:HB2	1.57	0.86
1:C:235:ILE:HG13	1:C:287:GLY:HA2	1.57	0.86
1:C:31:PHE:HE1	1:D:97:ASN:OD1	1.58	0.86
1:C:523:THR:HG23	1:C:524:VAL:N	1.90	0.86
1:A:440:PRO:HD2	1:A:522:LEU:HD12	1.58	0.85
1:C:441:SER:OG	1:C:442:PRO:HD3	1.75	0.85
1:B:464:ILE:HD12	1:B:465:PRO:N	1.91	0.85
1:A:464:ILE:HD12	1:A:465:PRO:HD3	1.53	0.85
1:D:440:PRO:CD	1:D:522:LEU:HD12	2.05	0.85
1:D:523:THR:HG23	1:D:524:VAL:N	1.90	0.85
1:B:483:TRP:HZ2	1:B:507:TYR:CE1	1.95	0.85
1:B:523:THR:HG23	1:B:524:VAL:N	1.90	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:85:GLY:CA	1:D:42:GLY:HA2	1.70	0.85
1:D:257:ALA:O	1:D:273:THR:HG21	1.74	0.85
1:A:235:ILE:HG13	1:A:287:GLY:HA2	1.58	0.85
1:C:91:PRO:HA	1:D:79:HIS:HD2	1.40	0.85
1:C:483:TRP:HZ2	1:C:507:TYR:CE1	1.95	0.85
1:D:423:THR:CB	2:D:810:NAG:C7	2.54	0.85
1:A:4:ILE:HG22	1:B:91:PRO:O	1.76	0.85
1:A:464:ILE:HD12	1:A:465:PRO:N	1.91	0.85
1:A:483:TRP:HZ2	1:A:507:TYR:CE1	1.95	0.85
1:C:451:ASN:N	1:C:533:GLU:O	2.10	0.85
1:D:318:THR:HG21	2:D:806:NAG:H5	1.56	0.85
1:D:343:GLU:HB3	1:D:433:VAL:HG21	1.55	0.85
1:B:483:TRP:HZ2	1:B:507:TYR:HE1	1.24	0.85
1:C:81:VAL:HG12	1:D:43:ALA:CA	2.07	0.85
1:C:90:GLU:CA	1:D:79:HIS:N	2.38	0.85
1:A:438:PRO:HB3	1:A:471:TYR:HE2	1.41	0.85
1:B:30:ARG:O	1:C:30:ARG:HA	1.77	0.85
1:C:31:PHE:O	1:D:73:LYS:HD3	1.77	0.85
1:C:87:PRO:HB3	1:D:43:ALA:HB1	1.56	0.85
1:D:464:ILE:HD12	1:D:465:PRO:N	1.91	0.85
1:D:483:TRP:HZ2	1:D:507:TYR:CE1	1.95	0.85
1:A:333:VAL:HB	1:A:334:PRO:HD3	1.56	0.85
1:A:423:THR:CB	2:A:810:NAG:C7	2.54	0.85
1:D:320:THR:HG21	2:D:807:NAG:C2	2.05	0.85
1:B:438:PRO:HB3	1:B:471:TYR:HE2	1.41	0.85
1:B:423:THR:CB	2:B:810:NAG:C7	2.54	0.84
1:B:375:PRO:HB3	1:B:400:TYR:CE2	2.12	0.84
1:C:423:THR:CB	2:C:810:NAG:C7	2.54	0.84
1:B:451:ASN:N	1:B:533:GLU:O	2.10	0.84
1:D:155:PRO:HB2	2:D:801:NAG:H81	1.60	0.84
1:B:230:VAL:O	1:B:324:GLU:N	2.11	0.84
1:B:235:ILE:HG13	1:B:287:GLY:HA2	1.58	0.84
1:C:438:PRO:HB3	1:C:471:TYR:HE2	1.41	0.84
1:A:523:THR:HG23	1:A:524:VAL:N	1.90	0.84
1:D:375:PRO:HB3	1:D:400:TYR:CE2	2.12	0.84
1:A:396:ARG:NE	1:A:432:ASP:HB2	1.93	0.84
1:C:1:ASP:H2	1:D:28:LYS:CD	1.86	0.84
1:C:375:PRO:HB3	1:C:400:TYR:CE2	2.12	0.84
1:D:396:ARG:NE	1:D:432:ASP:HB2	1.93	0.84
1:A:155:PRO:HB2	2:A:801:NAG:H81	1.59	0.84
1:C:230:VAL:O	1:C:324:GLU:N	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:440:PRO:HD2	1:C:522:LEU:HD12	1.59	0.84
1:D:230:VAL:O	1:D:324:GLU:N	2.11	0.84
1:A:423:THR:HB	2:A:810:NAG:N2	1.93	0.84
1:C:1:ASP:CA	1:D:89:GLU:OE2	2.16	0.84
1:C:1:ASP:CA	1:D:28:LYS:HD3	2.08	0.84
1:C:396:ARG:NE	1:C:432:ASP:HB2	1.93	0.84
1:A:375:PRO:HB3	1:A:400:TYR:CE2	2.12	0.83
1:A:147:SER:OG	1:A:167:ARG:HD2	1.78	0.83
1:C:464:ILE:HD12	1:C:465:PRO:N	1.92	0.83
1:D:438:PRO:HB3	1:D:471:TYR:HE2	1.41	0.83
1:A:423:THR:CB	2:A:810:NAG:N2	2.42	0.83
1:A:451:ASN:N	1:A:533:GLU:O	2.10	0.83
1:B:423:THR:CB	2:B:810:NAG:N2	2.42	0.83
1:A:87:PRO:O	1:B:2:TRP:CZ2	2.30	0.83
1:B:32:ASN:ND2	1:B:83:GLU:H	1.77	0.83
1:D:423:THR:CB	2:D:810:NAG:N2	2.42	0.83
1:B:32:ASN:CB	1:C:27:ASN:HA	2.07	0.83
1:B:448:CYS:O	1:B:452:PRO:HG3	1.79	0.83
1:C:448:CYS:O	1:C:452:PRO:HG3	1.79	0.83
1:D:448:CYS:O	1:D:452:PRO:HG3	1.78	0.83
1:A:230:VAL:O	1:A:324:GLU:N	2.11	0.83
1:C:423:THR:CB	2:C:810:NAG:N2	2.42	0.83
1:C:28:LYS:HD3	1:C:88:VAL:HG12	1.61	0.83
1:C:483:TRP:HZ2	1:C:507:TYR:HE1	1.24	0.83
1:B:396:ARG:NE	1:B:432:ASP:HB2	1.93	0.83
1:D:28:LYS:HD3	1:D:88:VAL:HG12	1.61	0.83
1:D:440:PRO:HD2	1:D:522:LEU:HD12	1.59	0.83
1:D:469:TYR:CG	1:D:470:PRO:CD	2.61	0.83
1:A:32:ASN:ND2	1:A:83:GLU:H	1.77	0.83
1:B:423:THR:HB	2:B:810:NAG:N2	1.93	0.83
1:B:446:THR:HG21	1:B:537:ILE:O	1.79	0.83
1:C:32:ASN:ND2	1:C:83:GLU:H	1.77	0.83
1:C:80:ALA:CB	1:D:39:THR:OG1	2.25	0.83
1:C:85:GLY:C	1:D:41:GLN:C	2.34	0.83
1:D:446:THR:HG21	1:D:537:ILE:O	1.79	0.83
1:A:289:ASP:O	1:A:289:ASP:OD2	1.97	0.82
1:B:154:ASP:HB3	2:B:801:NAG:HN2	1.44	0.82
1:B:482:THR:HG21	1:B:500:GLN:N	1.94	0.82
1:A:469:TYR:CG	1:A:470:PRO:CD	2.61	0.82
1:A:540:GLN:O	1:A:540:GLN:OE1	1.97	0.82
1:B:540:GLN:O	1:B:540:GLN:OE1	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:451:ASN:N	1:D:533:GLU:O	2.10	0.82
1:A:448:CYS:O	1:A:452:PRO:HG3	1.79	0.82
1:C:87:PRO:HD3	1:D:42:GLY:C	2.00	0.82
1:D:482:THR:HG21	1:D:500:GLN:N	1.94	0.82
1:C:482:THR:HG21	1:C:500:GLN:N	1.94	0.82
1:C:540:GLN:O	1:C:540:GLN:OE1	1.97	0.82
1:D:235:ILE:HG13	1:D:287:GLY:HA2	1.58	0.82
1:A:482:THR:HG21	1:A:500:GLN:N	1.94	0.82
1:B:469:TYR:CG	1:B:470:PRO:CD	2.61	0.82
1:D:423:THR:HB	2:D:810:NAG:N2	1.93	0.82
1:B:28:LYS:HD3	1:B:88:VAL:HG12	1.61	0.82
1:B:440:PRO:HD2	1:B:522:LEU:HD12	1.59	0.82
1:C:469:TYR:CG	1:C:470:PRO:CD	2.61	0.82
1:B:155:PRO:HB2	2:B:801:NAG:H81	1.59	0.82
1:B:234:GLU:H	1:B:235:ILE:CG2	1.92	0.82
1:B:277:SER:C	1:B:278:ASN:HD22	1.83	0.82
1:C:423:THR:HB	2:C:810:NAG:N2	1.93	0.82
1:D:483:TRP:HZ2	1:D:507:TYR:HE1	1.24	0.82
1:D:32:ASN:ND2	1:D:83:GLU:H	1.77	0.81
1:D:277:SER:C	1:D:278:ASN:HD22	1.83	0.81
1:D:289:ASP:O	1:D:289:ASP:OD2	1.97	0.81
1:A:3:VAL:N	1:B:78:SER:O	2.12	0.81
1:A:154:ASP:HB3	2:A:801:NAG:N2	1.95	0.81
1:C:155:PRO:HB2	2:C:801:NAG:H81	1.60	0.81
1:A:154:ASP:HB3	2:A:801:NAG:HN2	1.45	0.81
1:A:446:THR:HG21	1:A:537:ILE:O	1.79	0.81
1:B:289:ASP:O	1:B:289:ASP:OD2	1.97	0.81
1:C:85:GLY:CA	1:D:41:GLN:C	2.47	0.81
1:C:85:GLY:HA3	1:D:42:GLY:HA2	1.62	0.81
1:C:87:PRO:HG3	1:D:43:ALA:C	2.00	0.81
1:C:154:ASP:HB3	2:C:801:NAG:HN2	1.44	0.81
1:C:446:THR:HG21	1:C:537:ILE:O	1.79	0.81
1:A:483:TRP:HZ2	1:A:507:TYR:HE1	1.24	0.81
1:C:289:ASP:O	1:C:289:ASP:OD2	1.97	0.81
1:C:31:PHE:CE1	1:D:97:ASN:OD1	2.33	0.81
1:C:154:ASP:HB3	2:C:801:NAG:N2	1.95	0.81
1:B:496:LEU:HD21	1:B:509:ILE:HD13	1.63	0.81
1:D:154:ASP:HB3	2:D:801:NAG:N2	1.95	0.81
1:D:496:LEU:HD21	1:D:509:ILE:HD13	1.63	0.81
1:D:540:GLN:O	1:D:540:GLN:OE1	1.97	0.81
1:A:90:GLU:HB3	1:B:3:VAL:O	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:GLU:HB3	1:B:268:PHE:HE2	1.46	0.81
1:C:517:GLN:C	1:C:519:ASN:H	1.84	0.81
1:A:396:ARG:HH21	1:A:464:ILE:HG22	1.46	0.81
1:B:290:PHE:CE2	1:B:293:ARG:HB2	2.16	0.81
1:C:496:LEU:HD21	1:C:509:ILE:HD13	1.63	0.81
1:D:469:TYR:CD2	1:D:470:PRO:HD2	2.16	0.81
1:A:28:LYS:HD3	1:A:88:VAL:HG12	1.61	0.81
1:A:277:SER:C	1:A:278:ASN:HD22	1.84	0.81
1:B:469:TYR:CD2	1:B:470:PRO:HD2	2.16	0.81
1:C:290:PHE:CE2	1:C:293:ARG:HB2	2.16	0.81
1:A:486:GLU:O	1:A:494:MET:HA	1.81	0.81
1:B:30:ARG:C	1:C:30:ARG:HG3	1.96	0.81
1:B:127:VAL:HG13	1:B:128:MET:H	1.46	0.81
1:B:486:GLU:O	1:B:494:MET:HA	1.81	0.81
1:C:486:GLU:O	1:C:494:MET:HA	1.81	0.81
1:D:517:GLN:C	1:D:519:ASN:H	1.84	0.81
1:A:265:GLU:HB3	1:A:268:PHE:HE2	1.46	0.80
1:B:86:SER:N	1:D:91:PRO:HD2	1.96	0.80
1:B:154:ASP:HB3	2:B:801:NAG:N2	1.95	0.80
1:C:79:HIS:HB3	1:D:39:THR:HG22	1.63	0.80
1:C:84:ASN:HA	1:D:71:TYR:CD2	2.16	0.80
1:D:486:GLU:O	1:D:494:MET:HA	1.81	0.80
1:A:290:PHE:CE2	1:A:293:ARG:HB2	2.16	0.80
1:A:469:TYR:CD2	1:A:470:PRO:HD2	2.16	0.80
1:B:30:ARG:O	1:C:30:ARG:CG	2.29	0.80
1:A:517:GLN:C	1:A:519:ASN:H	1.84	0.80
1:C:432:ASP:OD2	1:C:464:ILE:CG2	2.30	0.80
1:A:127:VAL:HG13	1:A:128:MET:H	1.46	0.80
1:C:86:SER:CA	1:D:42:GLY:C	2.46	0.80
1:C:93:GLU:N	1:D:81:VAL:HG11	1.96	0.80
1:C:299:GLN:HG2	1:C:318:THR:HG23	1.62	0.80
1:D:265:GLU:HB3	1:D:268:PHE:HE2	1.46	0.80
1:D:406:TYR:CD1	2:D:808:NAG:H83	2.17	0.80
1:C:222:ASP:OD1	1:C:222:ASP:C	2.20	0.80
1:C:277:SER:C	1:C:278:ASN:HD22	1.84	0.80
1:A:396:ARG:HD3	1:A:431:LEU:C	2.02	0.80
1:B:517:GLN:C	1:B:519:ASN:H	1.84	0.80
1:C:265:GLU:HB3	1:C:268:PHE:HE2	1.46	0.80
1:C:540:GLN:O	1:C:540:GLN:CG	2.30	0.80
1:A:234:GLU:H	1:A:235:ILE:CG2	1.92	0.80
1:A:299:GLN:HG2	1:A:318:THR:HG23	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:482:THR:OG1	1:A:500:GLN:HG2	1.82	0.80
1:A:496:LEU:HD21	1:A:509:ILE:HD13	1.63	0.80
1:C:396:ARG:HH21	1:C:464:ILE:HG22	1.46	0.80
1:C:469:TYR:CD2	1:C:470:PRO:HD2	2.16	0.80
1:D:371:ILE:HD11	1:D:381:VAL:HG11	1.64	0.80
1:A:406:TYR:CD1	2:A:808:NAG:H83	2.17	0.80
1:C:1:ASP:H3	1:D:88:VAL:CB	1.95	0.80
1:D:234:GLU:H	1:D:235:ILE:CG2	1.92	0.80
1:A:232:GLU:HG3	1:A:290:PHE:N	1.98	0.79
1:A:290:PHE:HD2	1:A:293:ARG:H	1.28	0.79
1:B:155:PRO:C	1:B:157:GLU:H	1.86	0.79
1:B:232:GLU:HG3	1:B:290:PHE:N	1.98	0.79
1:B:406:TYR:CD1	2:B:808:NAG:H83	2.17	0.79
1:C:35:TYR:CD2	1:D:45:ASN:OD1	2.35	0.79
1:C:87:PRO:CD	1:D:43:ALA:HB2	2.12	0.79
1:C:234:GLU:H	1:C:235:ILE:CG2	1.92	0.79
1:D:396:ARG:HH21	1:D:464:ILE:HG22	1.46	0.79
1:B:396:ARG:HH21	1:B:464:ILE:HG22	1.46	0.79
1:B:396:ARG:HD3	1:B:431:LEU:C	2.03	0.79
1:C:1:ASP:CB	1:D:89:GLU:CD	2.37	0.79
1:C:83:GLU:OE1	1:D:41:GLN:NE2	2.12	0.79
1:D:449:ASP:HB3	1:D:532:CYS:H	1.47	0.79
1:D:540:GLN:O	1:D:540:GLN:CG	2.30	0.79
1:A:365:GLN:HG3	1:A:365:GLN:O	1.82	0.79
1:C:127:VAL:HG13	1:C:128:MET:H	1.46	0.79
1:D:290:PHE:CE2	1:D:293:ARG:HB2	2.16	0.79
1:A:523:THR:CG2	1:A:524:VAL:H	1.94	0.79
1:B:27:ASN:HD22	1:B:27:ASN:C	1.85	0.79
1:C:371:ILE:HD11	1:C:381:VAL:HG11	1.64	0.79
1:C:27:ASN:HD22	1:C:27:ASN:C	1.85	0.79
1:C:85:GLY:HA2	1:D:42:GLY:H	1.45	0.79
1:D:127:VAL:HG13	1:D:128:MET:H	1.46	0.79
2:D:904:NAG:H3	2:D:904:NAG:O7	1.82	0.79
1:A:7:ILE:HG23	1:D:27:ASN:OD1	1.83	0.79
1:A:195:ASP:HB3	1:A:200:GLY:HA3	1.65	0.79
1:C:406:TYR:CD1	2:C:808:NAG:H83	2.17	0.79
1:D:154:ASP:HB3	2:D:801:NAG:HN2	1.44	0.79
1:D:482:THR:OG1	1:D:500:GLN:HG2	1.82	0.79
2:D:809:NAG:H61	2:D:810:NAG:H62	1.65	0.79
1:A:24:ILE:CG1	1:D:2:TRP:CZ2	2.66	0.79
1:B:32:ASN:HB3	1:C:27:ASN:HA	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:ASP:HB3	1:B:532:CYS:H	1.47	0.79
1:C:27:ASN:ND2	1:D:93:GLU:N	2.30	0.79
1:C:154:ASP:CB	1:C:155:PRO:HD2	2.13	0.79
1:A:154:ASP:CB	1:A:155:PRO:HD2	2.13	0.79
1:A:301:THR:HG21	2:A:805:NAG:C8	2.12	0.79
1:A:485:ALA:O	1:A:486:GLU:CG	2.31	0.79
1:B:299:GLN:HG2	1:B:318:THR:HG23	1.63	0.79
2:B:904:NAG:H3	2:B:904:NAG:O7	1.82	0.79
1:C:485:ALA:O	1:C:486:GLU:CG	2.30	0.79
1:D:154:ASP:CB	1:D:155:PRO:HD2	2.13	0.79
1:D:299:GLN:HG2	1:D:318:THR:HG23	1.62	0.79
1:A:1:ASP:HA	1:B:24:ILE:HD13	1.63	0.79
1:A:222:ASP:OD1	1:A:222:ASP:C	2.20	0.79
1:C:396:ARG:HD3	1:C:431:LEU:C	2.03	0.79
1:A:432:ASP:OD2	1:A:464:ILE:CG2	2.30	0.78
1:A:540:GLN:O	1:A:540:GLN:CG	2.30	0.78
1:B:485:ALA:O	1:B:486:GLU:CG	2.31	0.78
1:A:238:GLU:HA	1:A:283:THR:HG22	1.66	0.78
1:B:154:ASP:CB	1:B:155:PRO:HD2	2.13	0.78
1:C:238:GLU:HA	1:C:283:THR:HG22	1.66	0.78
1:B:371:ILE:HD11	1:B:381:VAL:HG11	1.64	0.78
1:C:90:GLU:CB	1:D:79:HIS:N	2.45	0.78
1:D:232:GLU:HG3	1:D:290:PHE:N	1.98	0.78
1:B:222:ASP:OD1	1:B:222:ASP:C	2.20	0.78
1:C:232:GLU:HG3	1:C:290:PHE:N	1.98	0.78
1:D:396:ARG:HD3	1:D:431:LEU:C	2.03	0.78
1:A:24:ILE:CA	1:D:2:TRP:CD1	2.61	0.78
1:A:501:GLN:HG2	1:A:501:GLN:O	1.84	0.78
1:B:88:VAL:O	1:D:1:ASP:CB	2.32	0.78
2:B:809:NAG:H61	2:B:810:NAG:H62	1.65	0.78
1:D:432:ASP:OD2	1:D:464:ILE:CG2	2.30	0.78
1:C:155:PRO:C	1:C:157:GLU:H	1.86	0.78
2:C:809:NAG:H61	2:C:810:NAG:H62	1.65	0.78
1:A:155:PRO:C	1:A:157:GLU:H	1.86	0.78
1:A:156:GLU:HG3	1:A:160:PRO:HB3	1.66	0.78
1:A:524:VAL:CG2	2:A:904:NAG:H81	2.14	0.78
1:C:93:GLU:HB2	1:D:81:VAL:HG11	1.64	0.78
1:C:156:GLU:HG3	1:C:160:PRO:HB3	1.66	0.78
1:C:449:ASP:HB3	1:C:532:CYS:H	1.47	0.78
1:D:222:ASP:OD1	1:D:222:ASP:C	2.20	0.78
1:D:365:GLN:HG3	1:D:365:GLN:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:GLU:HG3	1:B:160:PRO:HB3	1.66	0.78
1:C:482:THR:OG1	1:C:500:GLN:HG2	1.82	0.78
1:D:155:PRO:C	1:D:157:GLU:H	1.86	0.78
2:A:904:NAG:O7	2:A:904:NAG:H3	1.82	0.78
1:B:432:ASP:OD2	1:B:464:ILE:CG2	2.30	0.78
1:B:482:THR:OG1	1:B:500:GLN:HG2	1.82	0.78
1:C:81:VAL:HG13	1:D:40:GLY:N	1.98	0.78
1:D:238:GLU:HA	1:D:283:THR:HG22	1.66	0.78
1:A:10:SER:HB2	1:D:30:ARG:HG3	1.64	0.78
1:A:449:ASP:HB3	1:A:532:CYS:H	1.47	0.78
1:B:238:GLU:HA	1:B:283:THR:HG22	1.66	0.78
1:B:523:THR:CG2	1:B:524:VAL:N	2.46	0.78
1:A:147:SER:OG	1:A:167:ARG:CG	2.32	0.77
1:A:371:ILE:HD11	1:A:381:VAL:HG11	1.64	0.77
1:B:524:VAL:CG2	2:B:904:NAG:H81	2.14	0.77
1:C:82:SER:N	1:D:41:GLN:O	2.17	0.77
1:D:27:ASN:HD22	1:D:27:ASN:C	1.85	0.77
1:B:290:PHE:HD2	1:B:293:ARG:H	1.28	0.77
1:B:335:ALA:HB1	3:B:811:NDG:H6	1.49	0.77
1:C:365:GLN:HG3	1:C:365:GLN:O	1.82	0.77
1:C:523:THR:CG2	1:C:524:VAL:H	1.94	0.77
1:A:2:TRP:CG	1:B:80:ALA:HB2	2.16	0.77
1:A:147:SER:OG	1:A:167:ARG:CD	2.32	0.77
1:C:524:VAL:CG2	2:C:904:NAG:H81	2.14	0.77
2:C:904:NAG:O7	2:C:904:NAG:H3	1.82	0.77
1:D:223:PRO:HD2	1:D:226:TYR:OH	1.85	0.77
1:D:485:ALA:O	1:D:486:GLU:CG	2.30	0.77
1:A:24:ILE:HG13	1:D:2:TRP:CZ2	2.19	0.77
1:A:223:PRO:HD2	1:A:226:TYR:OH	1.85	0.77
1:C:35:TYR:HD2	1:D:45:ASN:CG	1.86	0.77
1:D:194:THR:HB	1:D:198:GLY:HA2	1.66	0.77
1:D:524:VAL:CG2	2:D:904:NAG:H81	2.14	0.77
1:A:2:TRP:O	1:B:92:MET:HB2	1.83	0.77
1:C:86:SER:HA	1:D:42:GLY:O	1.84	0.77
1:C:195:ASP:HB3	1:C:200:GLY:HA3	1.65	0.77
1:C:223:PRO:HD2	1:C:226:TYR:OH	1.85	0.77
2:A:809:NAG:H61	2:A:810:NAG:H62	1.65	0.77
1:B:31:PHE:HZ	1:C:34:VAL:HG21	1.49	0.77
1:C:86:SER:HB3	1:D:76:LEU:HD11	1.66	0.77
1:C:90:GLU:OE2	1:D:36:TYR:C	2.17	0.77
1:C:194:THR:HB	1:C:198:GLY:HA2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:290:PHE:HZ	1:D:296:TYR:HH	1.30	0.77
1:C:523:THR:CG2	1:C:524:VAL:N	2.46	0.77
1:D:195:ASP:HB3	1:D:200:GLY:HA3	1.65	0.77
1:A:27:ASN:HD22	1:A:27:ASN:C	1.85	0.77
1:A:290:PHE:HZ	1:A:296:TYR:HH	1.33	0.77
1:A:505:GLY:C	1:A:506:ASP:OD1	2.23	0.77
1:B:30:ARG:O	1:C:30:ARG:CB	2.31	0.77
1:B:362:GLN:O	1:B:364:ILE:HG23	1.85	0.77
1:C:81:VAL:HG11	1:D:45:ASN:N	1.99	0.77
1:A:194:THR:HB	1:A:198:GLY:HA2	1.67	0.77
1:A:432:ASP:CG	1:A:464:ILE:HG22	2.05	0.77
1:B:540:GLN:O	1:B:540:GLN:CG	2.30	0.77
1:A:196:LEU:HB2	1:A:199:ALA:HB3	1.67	0.76
1:B:86:SER:HA	1:D:90:GLU:HA	1.62	0.76
1:C:31:PHE:HA	1:D:73:LYS:NZ	2.00	0.76
1:C:432:ASP:CG	1:C:464:ILE:HG22	2.05	0.76
1:D:272:THR:HG22	1:D:273:THR:H	1.51	0.76
1:B:440:PRO:HB3	1:B:457:LEU:HD21	1.67	0.76
1:D:290:PHE:HD2	1:D:293:ARG:H	1.28	0.76
1:D:505:GLY:C	1:D:506:ASP:OD1	2.23	0.76
1:A:366:LYS:CG	1:A:367:LEU:N	2.48	0.76
1:B:195:ASP:HB3	1:B:200:GLY:HA3	1.65	0.76
1:B:505:GLY:C	1:B:506:ASP:OD1	2.23	0.76
1:C:186:GLU:O	2:C:801:NAG:O7	2.03	0.76
1:C:362:GLN:O	1:C:364:ILE:HG23	1.85	0.76
1:D:186:GLU:O	2:D:801:NAG:O7	2.03	0.76
1:D:368:SER:HG	1:D:370:PHE:HE1	1.33	0.76
1:B:365:GLN:O	1:B:365:GLN:HG3	1.82	0.76
1:B:366:LYS:CG	1:B:367:LEU:N	2.48	0.76
1:C:396:ARG:HH21	1:C:464:ILE:CG2	1.98	0.76
1:D:241:ARG:HE	1:D:281:ILE:HD12	1.51	0.76
1:A:90:GLU:N	1:B:2:TRP:HE3	1.83	0.76
1:B:186:GLU:O	2:B:801:NAG:O7	2.04	0.76
1:C:88:VAL:CG1	1:D:94:ILE:HB	2.15	0.76
1:C:505:GLY:C	1:C:506:ASP:OD1	2.23	0.76
1:D:440:PRO:HB3	1:D:457:LEU:HD21	1.67	0.76
1:A:186:GLU:O	2:A:801:NAG:O7	2.03	0.76
1:A:396:ARG:HH21	1:A:464:ILE:CG2	1.98	0.76
1:B:432:ASP:CG	1:B:464:ILE:HG22	2.05	0.76
1:A:24:ILE:CG2	1:D:2:TRP:CD1	2.67	0.76
1:B:196:LEU:HB2	1:B:199:ALA:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:THR:HG23	1:B:524:VAL:HG22	1.67	0.76
1:C:4:ILE:HG21	1:D:87:PRO:HG2	1.68	0.76
1:D:362:GLN:O	1:D:364:ILE:HG23	1.85	0.76
1:B:501:GLN:O	1:B:501:GLN:HG2	1.84	0.76
1:C:88:VAL:C	1:D:38:ILE:HG13	2.05	0.76
1:C:196:LEU:HB2	1:C:199:ALA:HB3	1.67	0.76
1:D:156:GLU:HG3	1:D:160:PRO:HB3	1.66	0.76
1:D:366:LYS:CG	1:D:367:LEU:N	2.48	0.76
1:D:432:ASP:CG	1:D:464:ILE:HG22	2.05	0.76
1:A:440:PRO:HB3	1:A:457:LEU:HD21	1.67	0.76
1:A:523:THR:CG2	1:A:524:VAL:N	2.46	0.76
1:B:82:SER:CB	1:C:27:ASN:HB3	2.15	0.76
1:B:223:PRO:HD2	1:B:226:TYR:OH	1.85	0.76
1:D:371:ILE:HD12	1:D:410:MET:HB3	1.68	0.76
1:A:91:PRO:CA	1:B:1:ASP:O	2.34	0.76
1:C:501:GLN:HG2	1:C:501:GLN:O	1.84	0.76
1:D:196:LEU:HB2	1:D:199:ALA:HB3	1.67	0.76
1:D:448:CYS:SG	1:D:537:ILE:HG22	2.26	0.76
1:B:301:THR:HG21	2:B:805:NAG:C8	2.12	0.75
1:A:371:ILE:HD12	1:A:410:MET:HB3	1.68	0.75
1:B:84:ASN:HD22	1:D:91:PRO:HB2	1.49	0.75
1:C:301:THR:HG21	2:C:805:NAG:C8	2.13	0.75
1:C:371:ILE:HD12	1:C:410:MET:HB3	1.68	0.75
1:A:188:THR:HG23	1:A:208:ILE:CG1	2.16	0.75
1:B:88:VAL:HG13	1:C:27:ASN:OD1	1.87	0.75
1:B:272:THR:HG22	1:B:273:THR:H	1.51	0.75
1:B:364:ILE:HG13	1:B:364:ILE:O	1.87	0.75
1:C:366:LYS:CG	1:C:367:LEU:N	2.48	0.75
1:C:272:THR:HG22	1:C:273:THR:H	1.50	0.75
1:D:501:GLN:O	1:D:501:GLN:HG2	1.84	0.75
1:B:448:CYS:SG	1:B:537:ILE:HG22	2.27	0.75
1:A:362:GLN:O	1:A:364:ILE:HG23	1.85	0.75
1:A:396:ARG:NH2	1:A:464:ILE:HB	2.02	0.75
1:B:31:PHE:CE2	1:C:29:ASP:CB	2.68	0.75
1:B:194:THR:HB	1:B:198:GLY:HA2	1.67	0.75
1:B:482:THR:CG2	1:B:499:THR:CG2	2.62	0.75
1:C:448:CYS:SG	1:C:537:ILE:HG22	2.27	0.75
1:D:290:PHE:CD2	1:D:293:ARG:N	2.55	0.75
1:B:396:ARG:NH2	1:B:464:ILE:HB	2.02	0.75
1:C:440:PRO:HB3	1:C:457:LEU:HD21	1.67	0.75
1:D:449:ASP:HB3	1:D:532:CYS:N	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:290:PHE:HD2	1:C:293:ARG:H	1.28	0.75
1:A:5:PRO:HD2	1:B:90:GLU:OE2	1.87	0.75
1:A:448:CYS:SG	1:A:537:ILE:HG22	2.27	0.74
1:A:449:ASP:HB3	1:A:532:CYS:N	2.02	0.74
1:B:371:ILE:HD12	1:B:410:MET:HB3	1.68	0.74
1:A:523:THR:HG23	1:A:524:VAL:HG22	1.67	0.74
1:C:396:ARG:NH2	1:C:464:ILE:HB	2.02	0.74
1:D:523:THR:HG23	1:D:524:VAL:HG22	1.67	0.74
1:A:241:ARG:HE	1:A:281:ILE:HD12	1.51	0.74
1:A:272:THR:HG22	1:A:273:THR:H	1.50	0.74
1:C:2:TRP:N	1:D:89:GLU:HA	2.01	0.74
1:C:188:THR:HG23	1:C:208:ILE:CG1	2.16	0.74
1:A:3:VAL:HG23	1:B:91:PRO:CB	2.17	0.74
1:B:368:SER:HG	1:B:370:PHE:HE1	1.36	0.74
1:C:241:ARG:HE	1:C:281:ILE:HD12	1.51	0.74
1:D:188:THR:HG23	1:D:208:ILE:CG1	2.16	0.74
1:D:450:GLN:HG3	1:D:533:GLU:OE2	1.88	0.74
1:A:79:HIS:HA	1:B:1:ASP:H2	1.53	0.74
1:B:84:ASN:O	1:C:24:ILE:HB	1.87	0.74
1:B:84:ASN:HD21	1:D:91:PRO:HB2	1.53	0.74
1:B:396:ARG:HH21	1:B:464:ILE:CG2	1.99	0.74
1:B:449:ASP:HB3	1:B:532:CYS:N	2.02	0.74
1:B:450:GLN:HG3	1:B:533:GLU:OE2	1.88	0.74
1:C:90:GLU:C	1:D:79:HIS:H	1.78	0.74
1:A:364:ILE:O	1:A:364:ILE:HG13	1.87	0.74
1:C:80:ALA:HB3	1:D:39:THR:OG1	1.88	0.74
1:C:88:VAL:HG22	1:D:76:LEU:CD2	1.96	0.74
1:C:482:THR:CG2	1:C:499:THR:CG2	2.62	0.74
1:D:451:ASN:O	1:D:534:GLY:HA2	1.88	0.74
1:A:79:HIS:HA	1:B:1:ASP:N	2.03	0.74
1:A:298:LEU:N	1:A:298:LEU:HD23	2.03	0.74
1:C:87:PRO:C	1:D:76:LEU:CD2	2.53	0.74
1:C:290:PHE:HZ	1:C:296:TYR:HH	1.35	0.74
1:D:523:THR:CG2	1:D:524:VAL:N	2.46	0.74
1:A:450:GLN:HG3	1:A:533:GLU:OE2	1.88	0.74
1:C:31:PHE:CB	1:D:75:VAL:HG22	2.13	0.74
1:C:523:THR:HG23	1:C:524:VAL:HG22	1.67	0.74
1:A:90:GLU:C	1:B:3:VAL:CG2	2.57	0.73
1:B:188:THR:HG23	1:B:208:ILE:CG1	2.16	0.73
1:B:290:PHE:HZ	1:B:296:TYR:HH	1.33	0.73
1:B:320:THR:CG2	2:B:807:NAG:HN2	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:GLU:OE2	1:D:37:SER:CA	2.30	0.73
1:C:450:GLN:HG3	1:C:533:GLU:OE2	1.88	0.73
1:A:223:PRO:HB2	1:A:226:TYR:CE2	2.23	0.73
1:B:31:PHE:HA	1:C:30:ARG:HA	1.67	0.73
1:C:1:ASP:H1	1:D:28:LYS:HB2	1.53	0.73
1:C:26:SER:OG	1:D:77:SER:CB	2.36	0.73
1:C:449:ASP:HB3	1:C:532:CYS:N	2.02	0.73
1:D:320:THR:CG2	2:D:807:NAG:HN2	2.02	0.73
1:A:320:THR:CG2	2:A:807:NAG:N2	2.52	0.73
1:A:482:THR:CG2	1:A:499:THR:CG2	2.62	0.73
1:B:31:PHE:CE2	1:C:29:ASP:HB3	2.14	0.73
1:B:451:ASN:O	1:B:534:GLY:HA2	1.88	0.73
1:C:4:ILE:HG22	1:D:87:PRO:CG	2.16	0.73
1:C:88:VAL:HG12	1:D:94:ILE:CB	2.18	0.73
1:C:223:PRO:HB2	1:C:226:TYR:CE2	2.23	0.73
1:C:364:ILE:O	1:C:364:ILE:HG13	1.87	0.73
1:A:451:ASN:O	1:A:534:GLY:HA2	1.88	0.73
1:B:241:ARG:HE	1:B:281:ILE:HD12	1.51	0.73
1:C:79:HIS:CG	1:D:44:ASP:OD1	2.41	0.73
1:D:223:PRO:HB2	1:D:226:TYR:CE2	2.23	0.73
1:D:364:ILE:O	1:D:364:ILE:HG13	1.87	0.73
1:A:276:GLU:HG3	1:A:277:SER:H	1.54	0.73
1:B:298:LEU:N	1:B:298:LEU:HD23	2.03	0.73
1:C:1:ASP:H1	1:D:28:LYS:HD3	1.47	0.73
1:C:84:ASN:O	1:D:47:PRO:HG2	1.88	0.73
1:C:91:PRO:C	1:D:37:SER:OG	2.26	0.73
1:D:333:VAL:CB	1:D:334:PRO:HD3	2.18	0.73
1:C:451:ASN:O	1:C:534:GLY:HA2	1.88	0.73
1:D:373:ASN:ND2	1:D:374:ASP:H	1.87	0.73
1:A:333:VAL:CB	1:A:334:PRO:HD3	2.18	0.73
1:B:276:GLU:HG3	1:B:277:SER:H	1.54	0.73
1:C:290:PHE:HE2	1:C:293:ARG:HB2	1.52	0.73
1:B:223:PRO:HB2	1:B:226:TYR:CE2	2.23	0.73
1:B:273:THR:O	2:B:803:NAG:H82	1.89	0.73
1:B:290:PHE:HE2	1:B:293:ARG:HB2	1.52	0.73
1:B:320:THR:CG2	2:B:807:NAG:N2	2.52	0.73
1:B:373:ASN:ND2	1:B:374:ASP:H	1.87	0.73
1:D:298:LEU:N	1:D:298:LEU:HD23	2.03	0.73
1:D:301:THR:HG21	2:D:805:NAG:C8	2.12	0.73
1:A:342:SER:HA	1:A:431:LEU:HB2	1.71	0.73
1:B:364:ILE:O	1:B:364:ILE:CG1	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:364:ILE:O	1:D:364:ILE:CG1	2.37	0.73
1:D:396:ARG:HH21	1:D:464:ILE:CG2	1.98	0.73
1:A:373:ASN:ND2	1:A:374:ASP:H	1.87	0.72
1:C:273:THR:O	2:C:803:NAG:H82	1.89	0.72
1:C:511:VAL:HG23	1:C:523:THR:O	1.89	0.72
1:A:90:GLU:CB	1:B:3:VAL:O	2.34	0.72
1:A:273:THR:O	2:A:803:NAG:H82	1.89	0.72
1:A:320:THR:CG2	2:A:807:NAG:HN2	2.01	0.72
1:B:32:ASN:HA	1:C:29:ASP:OD2	1.87	0.72
1:B:33:LYS:HB3	1:B:83:GLU:HG2	1.71	0.72
1:C:1:ASP:N	1:D:88:VAL:CB	2.52	0.72
1:C:298:LEU:HD23	1:C:298:LEU:N	2.03	0.72
1:D:33:LYS:HB3	1:D:83:GLU:HG2	1.71	0.72
1:D:290:PHE:HE2	1:D:293:ARG:HB2	1.52	0.72
1:D:320:THR:CG2	2:D:807:NAG:N2	2.52	0.72
1:C:320:THR:CG2	2:C:807:NAG:N2	2.52	0.72
1:D:482:THR:CG2	1:D:499:THR:CG2	2.62	0.72
1:A:99:ILE:CG2	1:D:30:ARG:NH1	2.50	0.72
1:A:511:VAL:HG23	1:A:523:THR:O	1.89	0.72
1:C:373:ASN:ND2	1:C:374:ASP:H	1.87	0.72
1:D:273:THR:O	2:D:803:NAG:H82	1.89	0.72
1:D:511:VAL:HG23	1:D:523:THR:O	1.89	0.72
1:A:364:ILE:O	1:A:364:ILE:CG1	2.37	0.72
1:B:511:VAL:HG23	1:B:523:THR:O	1.89	0.72
1:C:333:VAL:CB	1:C:334:PRO:HD3	2.18	0.72
1:C:32:ASN:H	1:D:75:VAL:HG21	0.57	0.72
1:C:276:GLU:HG3	1:C:277:SER:H	1.54	0.72
1:A:394:LEU:HD12	1:A:394:LEU:N	2.05	0.72
1:B:333:VAL:CB	1:B:334:PRO:HD3	2.18	0.72
1:C:366:LYS:HG3	1:C:367:LEU:N	2.04	0.72
1:B:32:ASN:C	1:C:25:LYS:HE2	2.06	0.72
1:C:82:SER:HB2	1:D:75:VAL:H	1.52	0.72
1:D:276:GLU:HG3	1:D:277:SER:H	1.54	0.72
1:A:474:SER:CB	1:A:512:LEU:HG	2.14	0.71
1:B:88:VAL:C	1:D:1:ASP:HB2	2.09	0.71
1:D:396:ARG:NH2	1:D:464:ILE:HB	2.02	0.71
1:A:4:ILE:C	1:B:91:PRO:HB2	2.10	0.71
1:B:394:LEU:N	1:B:394:LEU:HD12	2.05	0.71
1:D:342:SER:HA	1:D:431:LEU:HB2	1.71	0.71
1:C:90:GLU:HB3	1:D:79:HIS:N	2.05	0.71
1:C:227:THR:O	2:C:812:NAG:O5	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:342:SER:HA	1:C:431:LEU:HB2	1.71	0.71
1:C:364:ILE:O	1:C:364:ILE:CG1	2.37	0.71
1:B:316:THR:O	2:B:806:NAG:H82	1.91	0.71
1:C:229:LEU:HD23	1:C:322:THR:HB	1.73	0.71
1:C:394:LEU:HD12	1:C:394:LEU:N	2.05	0.71
1:D:229:LEU:HD23	1:D:322:THR:HB	1.73	0.71
1:D:414:ASP:HB3	1:D:420:GLY:HA3	1.73	0.71
1:A:276:GLU:CG	1:A:277:SER:H	2.03	0.71
1:C:434:ASN:OD1	1:C:467:ASN:HB3	1.91	0.71
1:D:438:PRO:HB3	1:D:471:TYR:CE2	2.26	0.71
1:B:434:ASN:OD1	1:B:467:ASN:HB3	1.91	0.71
1:C:90:GLU:HB3	1:D:79:HIS:CA	2.20	0.71
1:A:289:ASP:O	1:A:289:ASP:CG	2.29	0.71
1:A:335:ALA:HB1	3:A:811:NDG:H6	1.55	0.71
1:A:403:ASN:CB	2:A:902:NAG:N2	2.54	0.71
1:B:187:TYR:HA	2:B:801:NAG:C7	2.21	0.71
1:B:30:ARG:O	1:C:30:ARG:CA	2.39	0.71
1:B:290:PHE:CD2	1:B:293:ARG:N	2.55	0.71
1:C:81:VAL:CG1	1:D:40:GLY:N	2.49	0.71
1:C:187:TYR:HA	2:C:801:NAG:C7	2.21	0.71
1:D:337:SER:CA	1:D:427:ILE:HG23	2.19	0.71
1:A:91:PRO:CA	1:B:3:VAL:HG22	2.21	0.71
1:C:93:GLU:OE2	1:D:85:GLY:CA	2.30	0.71
1:D:276:GLU:CG	1:D:277:SER:H	2.03	0.71
1:A:187:TYR:HA	2:A:801:NAG:C7	2.21	0.70
1:A:414:ASP:HB3	1:A:420:GLY:HA3	1.73	0.70
1:B:483:TRP:CZ2	1:B:507:TYR:HE1	2.09	0.70
1:C:26:SER:OG	1:D:77:SER:HB2	1.90	0.70
1:C:33:LYS:HB3	1:C:83:GLU:HG2	1.71	0.70
1:C:320:THR:CG2	2:C:807:NAG:HN2	2.02	0.70
1:D:394:LEU:HD12	1:D:394:LEU:N	2.05	0.70
1:A:290:PHE:HE2	1:A:293:ARG:HB2	1.52	0.70
1:A:290:PHE:CD2	1:A:293:ARG:N	2.54	0.70
1:B:33:LYS:H	1:C:25:LYS:HE2	0.84	0.70
1:B:227:THR:O	2:B:812:NAG:O5	2.09	0.70
1:B:229:LEU:HD23	1:B:322:THR:HB	1.73	0.70
1:B:342:SER:HA	1:B:431:LEU:HB2	1.71	0.70
1:C:85:GLY:N	1:D:74:TYR:CE2	2.59	0.70
1:D:187:TYR:HA	2:D:801:NAG:C7	2.21	0.70
1:B:414:ASP:HB3	1:B:420:GLY:HA3	1.73	0.70
1:D:434:ASN:OD1	1:D:467:ASN:HB3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:LYS:HB3	1:A:83:GLU:HG2	1.71	0.70
1:B:405:THR:OG1	1:B:406:TYR:N	2.22	0.70
1:D:227:THR:O	2:D:812:NAG:O5	2.09	0.70
1:D:316:THR:O	2:D:806:NAG:H82	1.91	0.70
1:A:1:ASP:HB3	1:B:92:MET:HB3	1.72	0.70
1:C:289:ASP:O	1:C:289:ASP:CG	2.29	0.70
1:A:3:VAL:CG2	1:B:78:SER:H	2.01	0.70
1:A:316:THR:O	2:A:806:NAG:H82	1.91	0.70
1:C:276:GLU:CG	1:C:277:SER:H	2.03	0.70
1:D:403:ASN:CB	2:D:902:NAG:N2	2.54	0.70
1:A:523:THR:HG23	1:A:524:VAL:HG23	1.73	0.70
1:C:31:PHE:CD1	1:D:95:THR:CG2	2.75	0.70
1:C:80:ALA:HB3	1:D:77:SER:CB	2.21	0.70
1:A:434:ASN:OD1	1:A:467:ASN:HB3	1.91	0.70
1:A:485:ALA:C	1:A:486:GLU:HG2	2.12	0.70
1:A:229:LEU:HD23	1:A:322:THR:HB	1.73	0.70
1:A:405:THR:OG1	1:A:406:TYR:N	2.22	0.70
1:B:83:GLU:N	1:C:25:LYS:CD	2.43	0.70
1:B:523:THR:HG23	1:B:524:VAL:HG23	1.74	0.70
1:C:4:ILE:CG2	1:D:87:PRO:CB	2.68	0.69
1:C:396:ARG:HE	1:C:432:ASP:HB2	1.57	0.69
1:C:414:ASP:HB3	1:C:420:GLY:HA3	1.73	0.69
1:D:474:SER:HB2	1:D:512:LEU:CG	2.15	0.69
1:A:227:THR:O	2:A:812:NAG:O5	2.09	0.69
1:A:438:PRO:HB3	1:A:471:TYR:CE2	2.26	0.69
1:C:1:ASP:H3	1:D:88:VAL:CG1	2.03	0.69
1:C:290:PHE:CD2	1:C:293:ARG:N	2.55	0.69
1:C:316:THR:O	2:C:806:NAG:H82	1.91	0.69
1:C:337:SER:CA	1:C:427:ILE:HG23	2.20	0.69
1:C:403:ASN:CB	2:C:902:NAG:N2	2.54	0.69
1:D:405:THR:OG1	1:D:406:TYR:N	2.22	0.69
1:D:485:ALA:C	1:D:486:GLU:HG2	2.11	0.69
1:A:483:TRP:CZ2	1:A:507:TYR:HE1	2.09	0.69
1:C:1:ASP:C	1:D:28:LYS:NZ	2.44	0.69
1:B:276:GLU:CG	1:B:277:SER:H	2.03	0.69
1:B:438:PRO:HB3	1:B:471:TYR:CE2	2.26	0.69
1:D:1:ASP:CG	1:D:2:TRP:H	1.96	0.69
1:B:485:ALA:C	1:B:486:GLU:HG2	2.11	0.69
1:C:35:TYR:CD2	1:D:45:ASN:CG	2.65	0.69
1:C:82:SER:HB3	1:D:75:VAL:O	1.92	0.69
1:C:186:GLU:OE1	2:C:801:NAG:H62	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:53:ILE:HG13	1:A:59:TRP:O	1.93	0.69
1:B:83:GLU:HG2	1:C:25:LYS:CD	2.20	0.69
1:C:483:TRP:CZ2	1:C:507:TYR:HE1	2.09	0.69
1:D:53:ILE:HG13	1:D:59:TRP:O	1.93	0.69
1:D:186:GLU:OE1	2:D:801:NAG:H62	1.93	0.69
1:A:10:SER:N	1:D:30:ARG:HG3	2.08	0.69
1:A:242:LEU:HD12	1:A:280:GLY:O	1.93	0.69
1:B:27:ASN:C	1:B:27:ASN:ND2	2.46	0.69
1:B:403:ASN:CB	2:B:902:NAG:N2	2.54	0.69
1:B:474:SER:CB	1:B:512:LEU:HG	2.14	0.69
1:C:79:HIS:HB3	1:D:39:THR:CG2	2.20	0.69
1:C:90:GLU:HG2	1:D:36:TYR:CB	2.08	0.69
1:C:289:ASP:O	1:C:290:PHE:CB	2.25	0.69
1:D:289:ASP:O	1:D:289:ASP:CG	2.29	0.69
1:B:83:GLU:O	1:C:25:LYS:N	2.17	0.69
1:B:242:LEU:HD12	1:B:280:GLY:O	1.93	0.69
1:C:83:GLU:CB	1:D:41:GLN:NE2	2.56	0.69
1:C:523:THR:HG23	1:C:524:VAL:HG23	1.74	0.69
1:A:27:ASN:C	1:A:27:ASN:ND2	2.46	0.69
1:A:366:LYS:HG3	1:A:367:LEU:N	2.04	0.69
1:C:405:THR:OG1	1:C:406:TYR:N	2.22	0.69
1:C:485:ALA:C	1:C:486:GLU:HG2	2.11	0.69
1:D:523:THR:HG23	1:D:524:VAL:HG23	1.74	0.69
1:A:1:ASP:H3	1:B:94:ILE:HD11	0.87	0.68
1:A:1:ASP:HA	1:B:24:ILE:CD1	2.22	0.68
1:A:186:GLU:OE1	2:A:801:NAG:H62	1.93	0.68
1:A:282:LEU:HD23	1:A:283:THR:N	2.08	0.68
1:B:282:LEU:HD23	1:B:283:THR:N	2.08	0.68
1:B:81:VAL:HB	1:D:90:GLU:HG2	1.74	0.68
1:C:31:PHE:HB3	1:D:95:THR:HG23	1.72	0.68
1:C:242:LEU:HD12	1:C:280:GLY:O	1.93	0.68
1:C:474:SER:HB2	1:C:512:LEU:CG	2.15	0.68
1:A:290:PHE:HZ	1:A:296:TYR:OH	1.76	0.68
1:A:320:THR:HG21	2:A:807:NAG:H2	1.76	0.68
1:B:289:ASP:O	1:B:289:ASP:CG	2.29	0.68
1:C:272:THR:HG22	1:C:273:THR:N	2.09	0.68
1:C:290:PHE:HZ	1:C:296:TYR:OH	1.77	0.68
1:D:272:THR:HG22	1:D:273:THR:N	2.09	0.68
1:D:396:ARG:HD3	1:D:431:LEU:O	1.94	0.68
1:A:396:ARG:HD3	1:A:431:LEU:O	1.93	0.68
1:B:282:LEU:HD23	1:B:283:THR:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:320:THR:HG21	2:B:807:NAG:H2	1.76	0.68
1:C:87:PRO:N	1:D:43:ALA:CB	2.35	0.68
1:C:282:LEU:HD23	1:C:283:THR:N	2.08	0.68
1:D:242:LEU:HD12	1:D:280:GLY:O	1.93	0.68
1:C:87:PRO:HD3	1:D:43:ALA:N	2.08	0.68
1:C:195:ASP:HB2	1:C:201:LEU:N	2.08	0.68
1:C:282:LEU:HD23	1:C:283:THR:H	1.58	0.68
1:A:482:THR:HG21	1:A:500:GLN:H	1.59	0.68
1:B:396:ARG:HD3	1:B:431:LEU:O	1.94	0.68
1:C:84:ASN:HA	1:D:71:TYR:CG	2.28	0.68
1:B:53:ILE:HG13	1:B:59:TRP:O	1.93	0.68
1:B:155:PRO:HB2	2:B:801:NAG:C8	2.24	0.68
1:B:333:VAL:HB	1:B:334:PRO:CD	2.24	0.68
1:B:337:SER:CA	1:B:427:ILE:HG23	2.20	0.68
1:C:89:GLU:CA	1:D:38:ILE:HG13	2.24	0.68
1:C:517:GLN:C	1:C:519:ASN:N	2.46	0.68
1:A:368:SER:HG	1:A:370:PHE:HE1	1.42	0.68
1:A:371:ILE:CG2	1:A:372:GLY:N	2.57	0.68
1:B:88:VAL:C	1:D:1:ASP:CB	2.62	0.68
1:B:347:ARG:CD	1:B:392:GLY:H	2.07	0.68
1:C:4:ILE:HG23	1:D:87:PRO:CG	2.17	0.68
1:C:53:ILE:HG13	1:C:59:TRP:O	1.93	0.68
1:D:396:ARG:HE	1:D:432:ASP:HB2	1.57	0.68
1:B:87:PRO:HG2	1:C:2:TRP:CB	2.21	0.68
1:B:221:PHE:CE1	1:B:315:SER:O	2.45	0.68
1:B:396:ARG:HE	1:B:432:ASP:CB	2.07	0.68
1:C:396:ARG:HD3	1:C:431:LEU:O	1.94	0.68
1:B:371:ILE:CG2	1:B:372:GLY:N	2.57	0.68
1:C:1:ASP:CA	1:D:89:GLU:CG	2.57	0.68
1:C:93:GLU:HB3	1:D:81:VAL:HG11	1.73	0.68
1:C:137:ASP:OD2	1:C:139:ILE:HG22	1.94	0.68
1:C:155:PRO:HB2	2:C:801:NAG:C8	2.24	0.68
1:C:371:ILE:CG2	1:C:372:GLY:N	2.57	0.68
1:C:440:PRO:HA	1:C:458:THR:O	1.94	0.68
1:D:347:ARG:CD	1:D:392:GLY:H	2.07	0.68
1:A:1:ASP:CG	1:A:2:TRP:H	1.96	0.67
1:A:272:THR:HG22	1:A:273:THR:N	2.09	0.67
1:A:282:LEU:HD23	1:A:283:THR:H	1.58	0.67
1:B:1:ASP:CG	1:B:2:TRP:H	1.96	0.67
1:B:186:GLU:OE1	2:B:801:NAG:H62	1.93	0.67
1:B:289:ASP:O	1:B:290:PHE:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:222:ASP:O	1:C:222:ASP:CG	2.32	0.67
1:D:282:LEU:HD23	1:D:283:THR:H	1.58	0.67
1:D:333:VAL:HB	1:D:334:PRO:CD	2.24	0.67
1:D:440:PRO:HA	1:D:458:THR:O	1.94	0.67
1:A:347:ARG:CD	1:A:392:GLY:H	2.07	0.67
1:B:32:ASN:HB2	1:C:27:ASN:HA	1.74	0.67
1:B:84:ASN:OD1	1:C:27:ASN:N	2.25	0.67
1:C:333:VAL:HB	1:C:334:PRO:CD	2.24	0.67
1:D:195:ASP:HB2	1:D:201:LEU:N	2.08	0.67
1:D:222:ASP:O	1:D:222:ASP:CG	2.32	0.67
1:D:396:ARG:HE	1:D:432:ASP:CB	2.07	0.67
1:D:423:THR:HB	2:D:810:NAG:C8	2.24	0.67
1:B:137:ASP:OD2	1:B:139:ILE:HG22	1.94	0.67
1:D:137:ASP:OD2	1:D:139:ILE:HG22	1.94	0.67
1:A:155:PRO:HB2	2:A:801:NAG:C8	2.24	0.67
1:C:91:PRO:C	1:D:79:HIS:CD2	2.66	0.67
1:C:347:ARG:CD	1:C:392:GLY:H	2.07	0.67
1:C:474:SER:CB	1:C:512:LEU:HG	2.14	0.67
1:A:24:ILE:C	1:D:2:TRP:CZ2	2.48	0.67
1:B:272:THR:HG22	1:B:273:THR:N	2.09	0.67
1:B:440:PRO:HA	1:B:458:THR:O	1.94	0.67
1:B:482:THR:HG21	1:B:500:GLN:H	1.59	0.67
1:C:90:GLU:HG2	1:D:36:TYR:HB3	1.75	0.67
1:D:27:ASN:C	1:D:27:ASN:ND2	2.46	0.67
1:D:282:LEU:HD23	1:D:283:THR:N	2.08	0.67
1:D:474:SER:CB	1:D:512:LEU:HG	2.14	0.67
1:D:483:TRP:CZ2	1:D:507:TYR:HE1	2.09	0.67
1:D:524:VAL:HG21	2:D:904:NAG:H81	1.77	0.67
1:B:290:PHE:HZ	1:B:296:TYR:OH	1.76	0.67
1:C:482:THR:HG21	1:C:500:GLN:H	1.58	0.67
1:D:396:ARG:NH2	1:D:464:ILE:CB	2.58	0.67
1:B:474:SER:HB2	1:B:512:LEU:CG	2.15	0.67
1:B:524:VAL:HG21	2:B:904:NAG:H81	1.76	0.67
1:D:187:TYR:HA	2:D:801:NAG:C8	2.25	0.67
1:A:90:GLU:N	1:B:2:TRP:CE3	2.60	0.67
1:A:396:ARG:HE	1:A:432:ASP:CB	2.07	0.67
1:B:396:ARG:HE	1:B:432:ASP:HB2	1.57	0.67
1:B:401:VAL:HG13	1:B:405:THR:O	1.95	0.67
1:C:224:LYS:HE3	1:C:316:THR:O	1.95	0.67
1:C:396:ARG:HE	1:C:432:ASP:CB	2.07	0.67
1:C:401:VAL:HG13	1:C:405:THR:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:SER:N	1:D:30:ARG:CG	2.58	0.67
1:A:137:ASP:OD2	1:A:139:ILE:HG22	1.94	0.67
1:A:423:THR:HB	2:A:810:NAG:C8	2.24	0.67
1:C:187:TYR:HA	2:C:801:NAG:C8	2.25	0.67
1:C:221:PHE:CE1	1:C:315:SER:O	2.45	0.67
1:B:195:ASP:HB2	1:B:201:LEU:N	2.08	0.67
1:B:222:ASP:O	1:B:222:ASP:CG	2.32	0.67
2:C:902:NAG:O7	2:C:902:NAG:H3	1.95	0.67
1:D:347:ARG:CG	1:D:392:GLY:H	2.08	0.67
1:D:373:ASN:ND2	1:D:374:ASP:N	2.43	0.67
1:D:446:THR:CG2	1:D:537:ILE:O	2.43	0.67
1:A:396:ARG:NH2	1:A:464:ILE:CB	2.58	0.66
1:B:446:THR:CG2	1:B:537:ILE:O	2.43	0.66
1:C:32:ASN:CG	1:C:33:LYS:H	1.98	0.66
1:D:401:VAL:HG13	1:D:405:THR:O	1.95	0.66
2:D:902:NAG:H3	2:D:902:NAG:O7	1.95	0.66
1:C:82:SER:CB	1:D:75:VAL:N	2.49	0.66
1:C:423:THR:HB	2:C:810:NAG:C8	2.24	0.66
1:D:32:ASN:CG	1:D:33:LYS:H	1.99	0.66
1:B:187:TYR:HA	2:B:801:NAG:C8	2.25	0.66
1:C:27:ASN:ND2	1:D:93:GLU:CA	2.58	0.66
1:C:232:GLU:HG3	1:C:290:PHE:H	1.61	0.66
1:C:524:VAL:HG21	2:C:904:NAG:H81	1.77	0.66
1:D:320:THR:HG21	2:D:807:NAG:H2	1.76	0.66
1:A:187:TYR:HA	2:A:801:NAG:C8	2.25	0.66
1:A:482:THR:OG1	1:A:500:GLN:CG	2.44	0.66
1:A:347:ARG:HD2	1:A:392:GLY:H	1.60	0.66
1:A:440:PRO:HA	1:A:458:THR:O	1.94	0.66
1:C:86:SER:CB	1:D:76:LEU:HD11	2.26	0.66
1:C:396:ARG:NH2	1:C:464:ILE:CB	2.58	0.66
1:D:232:GLU:HG2	1:D:289:ASP:HA	1.77	0.66
1:D:290:PHE:HZ	1:D:296:TYR:OH	1.77	0.66
1:D:371:ILE:CG2	1:D:372:GLY:N	2.57	0.66
1:D:403:ASN:HB2	2:D:902:NAG:N2	2.10	0.66
1:D:440:PRO:HD2	1:D:522:LEU:CD1	2.26	0.66
1:A:36:TYR:CE2	1:D:2:TRP:HH2	2.13	0.66
1:A:347:ARG:CG	1:A:392:GLY:H	2.08	0.66
1:B:347:ARG:HD2	1:B:392:GLY:H	1.60	0.66
1:B:396:ARG:NH2	1:B:464:ILE:CB	2.58	0.66
1:B:403:ASN:HB2	2:B:902:NAG:N2	2.10	0.66
1:B:423:THR:HB	2:B:810:NAG:C8	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:482:THR:OG1	1:B:500:GLN:CG	2.44	0.66
1:C:440:PRO:HD2	1:C:522:LEU:CD1	2.26	0.66
1:A:224:LYS:HE3	1:A:316:THR:O	1.95	0.66
1:A:524:VAL:HG21	2:A:904:NAG:H81	1.77	0.66
1:C:90:GLU:OE1	1:D:53:ILE:HG21	1.95	0.66
1:C:373:ASN:ND2	1:C:374:ASP:N	2.43	0.66
1:C:438:PRO:HB3	1:C:471:TYR:CE2	2.26	0.66
1:D:347:ARG:HD2	1:D:392:GLY:H	1.60	0.66
1:D:464:ILE:O	1:D:467:ASN:HB2	1.96	0.66
1:A:8:LYS:HB2	1:D:30:ARG:HE	1.61	0.66
1:A:195:ASP:HB2	1:A:201:LEU:N	2.08	0.66
1:A:373:ASN:ND2	1:A:374:ASP:N	2.43	0.66
1:C:232:GLU:HG2	1:C:289:ASP:HA	1.77	0.66
1:A:32:ASN:CG	1:A:33:LYS:H	1.99	0.66
1:A:396:ARG:HE	1:A:432:ASP:HB2	1.57	0.66
1:A:401:VAL:HG13	1:A:405:THR:O	1.95	0.66
1:A:440:PRO:HD2	1:A:522:LEU:CD1	2.26	0.66
1:B:440:PRO:HD3	1:B:522:LEU:HD12	1.78	0.66
2:B:805:NAG:C6	2:B:806:NAG:C7	2.74	0.66
1:B:232:GLU:HG3	1:B:290:PHE:H	1.61	0.66
1:B:347:ARG:CG	1:B:392:GLY:H	2.08	0.66
1:B:464:ILE:O	1:B:467:ASN:HB2	1.95	0.66
1:C:347:ARG:CG	1:C:392:GLY:H	2.08	0.66
1:C:482:THR:OG1	1:C:500:GLN:CG	2.44	0.66
1:D:366:LYS:HG3	1:D:367:LEU:HG	1.77	0.66
1:A:222:ASP:O	1:A:222:ASP:CG	2.32	0.65
1:A:337:SER:CA	1:A:427:ILE:HG23	2.20	0.65
1:A:403:ASN:HB2	2:A:902:NAG:N2	2.10	0.65
1:B:265:GLU:HB3	1:B:268:PHE:CE2	2.31	0.65
2:C:805:NAG:C6	2:C:806:NAG:C7	2.74	0.65
1:D:482:THR:HG21	1:D:500:GLN:H	1.59	0.65
1:B:224:LYS:HE3	1:B:316:THR:O	1.95	0.65
1:B:373:ASN:ND2	1:B:374:ASP:N	2.43	0.65
1:B:524:VAL:HG23	2:B:904:NAG:H81	1.78	0.65
1:C:88:VAL:HG12	1:D:94:ILE:N	2.10	0.65
1:C:320:THR:HG21	2:C:807:NAG:H2	1.76	0.65
1:A:10:SER:HB2	1:D:30:ARG:CG	2.26	0.65
1:A:232:GLU:HG2	1:A:289:ASP:HA	1.77	0.65
1:A:446:THR:CG2	1:A:537:ILE:O	2.44	0.65
1:A:464:ILE:O	1:A:467:ASN:HB2	1.96	0.65
1:C:1:ASP:H1	1:D:28:LYS:CD	2.03	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:366:LYS:HG3	1:C:367:LEU:HG	1.77	0.65
1:D:32:ASN:ND2	1:D:83:GLU:N	2.45	0.65
1:D:155:PRO:HB2	2:D:801:NAG:C8	2.24	0.65
1:D:482:THR:OG1	1:D:500:GLN:CG	2.44	0.65
2:A:902:NAG:H3	2:A:902:NAG:O7	1.95	0.65
1:B:30:ARG:HH11	1:C:30:ARG:HG2	1.60	0.65
1:C:347:ARG:HD2	1:C:392:GLY:H	1.60	0.65
1:D:488:ASP:HB2	1:D:493:SER:OG	1.97	0.65
1:A:90:GLU:HG3	1:B:3:VAL:CG2	2.14	0.65
1:A:333:VAL:HB	1:A:334:PRO:CD	2.24	0.65
1:B:440:PRO:HD2	1:B:522:LEU:CD1	2.26	0.65
1:A:32:ASN:ND2	1:A:83:GLU:N	2.44	0.65
1:B:84:ASN:OD1	1:C:26:SER:HA	1.71	0.65
1:B:232:GLU:HG2	1:B:289:ASP:HA	1.77	0.65
1:B:406:TYR:CE1	2:B:808:NAG:H83	2.32	0.65
1:C:464:ILE:O	1:C:467:ASN:HB2	1.96	0.65
1:C:488:ASP:HB2	1:C:493:SER:OG	1.97	0.65
1:C:524:VAL:HG23	2:C:904:NAG:H81	1.78	0.65
2:C:809:NAG:C6	2:C:810:NAG:H62	2.26	0.65
2:A:805:NAG:C6	2:A:806:NAG:C7	2.74	0.65
2:B:809:NAG:C6	2:B:810:NAG:H62	2.26	0.65
2:B:904:NAG:O7	2:B:904:NAG:C3	2.45	0.65
1:C:79:HIS:CG	1:D:39:THR:HG22	2.32	0.65
1:C:346:SER:OG	1:C:349:GLU:HG3	1.97	0.65
1:D:224:LYS:HE3	1:D:316:THR:O	1.95	0.65
1:A:89:GLU:OE1	1:B:2:TRP:CB	2.26	0.65
1:A:212:THR:HG22	1:A:213:ASP:H	1.62	0.65
1:B:31:PHE:CZ	1:C:34:VAL:HG21	2.32	0.65
1:C:403:ASN:HB2	2:C:902:NAG:N2	2.10	0.65
1:C:446:THR:CG2	1:C:537:ILE:O	2.44	0.65
1:A:2:TRP:CE2	1:B:79:HIS:O	2.43	0.65
1:A:327:ASN:HA	1:A:360:ASP:OD2	1.97	0.65
1:A:364:ILE:O	1:A:364:ILE:HD12	1.97	0.65
1:B:346:SER:OG	1:B:349:GLU:HG3	1.97	0.65
1:B:488:ASP:HB2	1:B:493:SER:OG	1.97	0.65
1:B:517:GLN:C	1:B:519:ASN:N	2.47	0.65
1:C:88:VAL:HG23	1:D:39:THR:O	1.97	0.65
1:A:2:TRP:CE2	1:B:80:ALA:HB1	2.16	0.65
1:A:440:PRO:HD3	1:A:522:LEU:HD12	1.78	0.65
1:B:366:LYS:HG3	1:B:367:LEU:HG	1.77	0.65
1:B:482:THR:HG21	1:B:499:THR:CA	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:81:VAL:CG1	1:D:43:ALA:CA	2.70	0.65
1:C:440:PRO:HD3	1:C:522:LEU:HD12	1.78	0.65
2:D:809:NAG:C6	2:D:810:NAG:H62	2.26	0.65
1:B:212:THR:HG22	1:B:213:ASP:H	1.62	0.64
1:B:327:ASN:HA	1:B:360:ASP:OD2	1.97	0.64
1:B:364:ILE:O	1:B:364:ILE:HD12	1.97	0.64
1:C:32:ASN:ND2	1:C:83:GLU:N	2.45	0.64
1:A:366:LYS:HG3	1:A:367:LEU:HG	1.77	0.64
1:C:31:PHE:HD2	1:D:75:VAL:HG23	1.62	0.64
1:A:482:THR:HG21	1:A:499:THR:CA	2.27	0.64
1:B:341:VAL:HG21	1:B:345:LEU:HD12	1.79	0.64
2:C:904:NAG:O7	2:C:904:NAG:C3	2.45	0.64
1:A:469:TYR:CD2	1:A:470:PRO:CD	2.81	0.64
1:D:212:THR:HG22	1:D:213:ASP:H	1.62	0.64
1:D:232:GLU:HG3	1:D:290:PHE:H	1.61	0.64
1:D:265:GLU:HB3	1:D:268:PHE:CE2	2.31	0.64
1:D:482:THR:HG21	1:D:499:THR:CA	2.27	0.64
1:A:346:SER:OG	1:A:349:GLU:HG3	1.97	0.64
1:A:482:THR:HG22	1:A:499:THR:N	2.13	0.64
2:B:902:NAG:H3	2:B:902:NAG:O7	1.95	0.64
1:C:364:ILE:O	1:C:364:ILE:HD12	1.97	0.64
1:D:406:TYR:CE1	2:D:808:NAG:H83	2.32	0.64
1:D:524:VAL:HG23	2:D:904:NAG:H81	1.78	0.64
1:A:154:ASP:O	2:A:801:NAG:H82	1.98	0.64
1:A:347:ARG:HG3	1:A:392:GLY:H	1.62	0.64
1:A:406:TYR:CE1	2:A:808:NAG:H83	2.32	0.64
2:A:809:NAG:C6	2:A:810:NAG:H62	2.26	0.64
1:C:504:LYS:NZ	1:C:531:SER:OG	2.31	0.64
1:D:341:VAL:HG21	1:D:345:LEU:HD12	1.79	0.64
1:D:346:SER:OG	1:D:349:GLU:HG3	1.97	0.64
1:D:409:ILE:HG12	1:D:425:THR:HG23	1.80	0.64
1:C:90:GLU:OE2	1:D:37:SER:HA	1.98	0.64
1:C:409:ILE:HG12	1:C:425:THR:HG23	1.80	0.64
1:A:343:GLU:HB3	1:A:433:VAL:CG2	2.28	0.64
1:A:524:VAL:HG23	2:A:904:NAG:H81	1.78	0.64
1:C:81:VAL:HG21	1:D:45:ASN:HB2	0.64	0.64
1:C:347:ARG:HG3	1:C:392:GLY:H	1.62	0.64
1:A:364:ILE:O	1:A:364:ILE:CD1	2.46	0.64
1:A:419:VAL:HG13	2:A:809:NAG:O7	1.98	0.64
1:B:409:ILE:HG12	1:B:425:THR:HG23	1.80	0.64
1:C:341:VAL:HG21	1:C:345:LEU:HD12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:347:ARG:HG3	1:D:392:GLY:H	1.62	0.64
1:D:375:PRO:HB3	1:D:400:TYR:CD2	2.33	0.64
1:A:474:SER:HB2	1:A:512:LEU:CG	2.15	0.64
1:C:327:ASN:HA	1:C:360:ASP:OD2	1.97	0.64
1:C:364:ILE:O	1:C:364:ILE:CD1	2.46	0.64
1:C:486:GLU:O	1:C:494:MET:CA	2.46	0.64
2:D:904:NAG:O7	2:D:904:NAG:C3	2.45	0.64
1:A:488:ASP:HB2	1:A:493:SER:OG	1.97	0.63
1:C:406:TYR:CE1	2:C:808:NAG:H83	2.32	0.63
1:D:327:ASN:HA	1:D:360:ASP:OD2	1.97	0.63
1:A:22:VAL:HG22	1:A:23:GLN:N	2.14	0.63
1:A:341:VAL:HG21	1:A:345:LEU:HD12	1.79	0.63
1:A:486:GLU:O	1:A:494:MET:CA	2.46	0.63
1:A:504:LYS:NZ	1:A:531:SER:OG	2.31	0.63
1:B:419:VAL:HG13	2:B:809:NAG:O7	1.98	0.63
1:C:343:GLU:HB3	1:C:433:VAL:CG2	2.28	0.63
1:D:221:PHE:CE1	1:D:315:SER:O	2.45	0.63
1:D:440:PRO:HD3	1:D:522:LEU:HD12	1.78	0.63
1:B:343:GLU:HB3	1:B:433:VAL:CG2	2.28	0.63
1:B:375:PRO:HB3	1:B:400:TYR:CD2	2.33	0.63
1:C:142:LEU:HB3	1:C:196:LEU:HA	1.81	0.63
1:A:10:SER:HA	1:D:30:ARG:HD2	1.81	0.63
1:B:87:PRO:HD2	1:D:90:GLU:O	1.97	0.63
1:B:142:LEU:HB3	1:B:196:LEU:HA	1.81	0.63
1:B:469:TYR:CD2	1:B:470:PRO:CD	2.81	0.63
1:C:84:ASN:HB3	1:D:73:LYS:O	1.98	0.63
1:C:154:ASP:O	1:C:155:PRO:C	2.36	0.63
1:C:265:GLU:HB3	1:C:268:PHE:CE2	2.31	0.63
1:C:375:PRO:HB3	1:C:400:TYR:CD2	2.33	0.63
1:C:419:VAL:HG13	2:C:809:NAG:O7	1.98	0.63
1:D:504:LYS:NZ	1:D:531:SER:OG	2.31	0.63
1:A:221:PHE:CE1	1:A:315:SER:O	2.45	0.63
1:B:371:ILE:HG22	1:B:372:GLY:N	2.14	0.63
1:C:371:ILE:HG22	1:C:372:GLY:N	2.14	0.63
1:A:154:ASP:CA	2:A:801:NAG:H82	2.29	0.63
1:A:232:GLU:HG3	1:A:290:PHE:H	1.61	0.63
1:A:486:GLU:O	1:A:495:LEU:N	2.31	0.63
1:B:127:VAL:HG22	1:B:128:MET:N	2.14	0.63
1:B:504:LYS:NZ	1:B:531:SER:OG	2.31	0.63
1:C:1:ASP:N	1:D:88:VAL:HB	2.11	0.63
1:C:446:THR:CG2	1:C:539:CYS:SG	2.86	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:LEU:HB3	1:D:196:LEU:HA	1.81	0.63
1:D:364:ILE:O	1:D:364:ILE:CD1	2.46	0.63
1:A:517:GLN:C	1:A:519:ASN:N	2.47	0.63
1:C:90:GLU:CD	1:D:36:TYR:HB3	2.18	0.63
1:C:469:TYR:CD2	1:C:470:PRO:CD	2.81	0.63
1:C:482:THR:HG21	1:C:499:THR:CA	2.27	0.63
1:D:154:ASP:O	1:D:155:PRO:C	2.36	0.63
1:D:469:TYR:CE1	1:D:470:PRO:HD2	2.34	0.63
1:D:486:GLU:O	1:D:494:MET:CA	2.46	0.63
1:B:347:ARG:HG3	1:B:392:GLY:H	1.62	0.63
1:C:403:ASN:CB	2:C:902:NAG:C7	2.76	0.63
1:D:22:VAL:HG22	1:D:23:GLN:N	2.14	0.63
1:D:364:ILE:O	1:D:364:ILE:HD12	1.97	0.63
1:D:419:VAL:HG13	2:D:809:NAG:O7	1.98	0.63
1:B:364:ILE:O	1:B:364:ILE:CD1	2.46	0.63
1:C:22:VAL:HG22	1:C:23:GLN:N	2.14	0.63
1:C:127:VAL:HG22	1:C:128:MET:N	2.14	0.63
1:C:154:ASP:CA	2:C:801:NAG:H82	2.29	0.63
1:C:212:THR:HG22	1:C:213:ASP:H	1.62	0.63
1:D:371:ILE:HG22	1:D:372:GLY:N	2.14	0.63
1:A:3:VAL:CG2	1:B:78:SER:N	2.60	0.62
1:A:142:LEU:HB3	1:A:196:LEU:HA	1.81	0.62
1:A:409:ILE:HG12	1:A:425:THR:HG23	1.80	0.62
1:B:22:VAL:HG22	1:B:23:GLN:N	2.14	0.62
1:B:154:ASP:O	1:B:155:PRO:C	2.36	0.62
1:C:81:VAL:CG1	1:D:43:ALA:CB	2.26	0.62
1:D:411:LEU:HD22	1:D:421:THR:HG23	1.81	0.62
1:A:127:VAL:HG22	1:A:128:MET:N	2.14	0.62
1:A:375:PRO:HB3	1:A:400:TYR:CD2	2.33	0.62
1:C:374:ASP:O	1:C:375:PRO:O	2.17	0.62
1:C:449:ASP:H	1:C:532:CYS:CB	2.12	0.62
1:B:154:ASP:O	2:B:801:NAG:H82	1.98	0.62
1:C:90:GLU:OE2	1:D:36:TYR:O	2.15	0.62
1:C:227:THR:CG2	2:C:807:NAG:C7	2.76	0.62
1:C:411:LEU:HD22	1:C:421:THR:HG23	1.81	0.62
1:D:343:GLU:HB3	1:D:433:VAL:CG2	2.27	0.62
1:D:508:SER:HB3	1:D:526:ASN:OD1	2.00	0.62
1:B:374:ASP:O	1:B:375:PRO:O	2.17	0.62
1:C:524:VAL:HG23	2:C:904:NAG:C8	2.29	0.62
1:D:127:VAL:HG22	1:D:128:MET:N	2.14	0.62
1:D:524:VAL:HG23	2:D:904:NAG:C8	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ARG:HD3	1:A:100:ASP:HA	1.82	0.62
1:A:89:GLU:O	1:B:1:ASP:O	2.18	0.62
1:B:154:ASP:CA	2:B:801:NAG:H82	2.29	0.62
1:C:87:PRO:O	1:D:38:ILE:HD11	2.00	0.62
1:C:524:VAL:CG2	2:C:904:NAG:C8	2.78	0.62
1:A:227:THR:CG2	2:A:807:NAG:C7	2.76	0.62
1:A:403:ASN:CB	2:A:902:NAG:C7	2.76	0.62
1:B:88:VAL:O	1:D:1:ASP:OD2	2.17	0.62
1:B:524:VAL:CG2	2:B:904:NAG:C8	2.78	0.62
1:C:154:ASP:O	2:C:801:NAG:H82	1.98	0.62
1:C:469:TYR:CE1	1:C:470:PRO:HD2	2.34	0.62
1:D:371:ILE:CG2	1:D:372:GLY:H	2.13	0.62
1:D:518:ASN:O	1:D:520:PRO:CD	2.46	0.62
2:D:805:NAG:C6	2:D:806:NAG:C7	2.74	0.62
1:A:1:ASP:H2	1:B:94:ILE:CD1	1.98	0.62
1:A:147:SER:OG	1:A:167:ARG:HG3	1.99	0.62
1:B:33:LYS:H	1:C:25:LYS:NZ	1.97	0.62
1:B:83:GLU:HG2	1:C:25:LYS:HD2	1.79	0.62
1:B:366:LYS:HG3	1:B:367:LEU:N	2.04	0.62
1:B:508:SER:HB3	1:B:526:ASN:OD1	1.99	0.62
1:C:508:SER:HB3	1:C:526:ASN:OD1	2.00	0.62
1:C:518:ASN:O	1:C:520:PRO:CD	2.46	0.62
1:A:212:THR:HG22	1:A:213:ASP:N	2.15	0.62
1:A:371:ILE:HG22	1:A:372:GLY:N	2.14	0.62
1:A:449:ASP:H	1:A:532:CYS:CB	2.12	0.62
1:A:524:VAL:HG23	2:A:904:NAG:C8	2.29	0.62
1:B:486:GLU:O	1:B:495:LEU:N	2.31	0.62
1:C:482:THR:HG22	1:C:499:THR:N	2.13	0.62
1:B:371:ILE:CG2	1:B:372:GLY:H	2.13	0.62
1:B:411:LEU:HD22	1:B:421:THR:HG23	1.81	0.62
1:B:518:ASN:O	1:B:520:PRO:CD	2.46	0.62
1:B:469:TYR:CE1	1:B:470:PRO:HD2	2.34	0.62
1:C:212:THR:HG22	1:C:213:ASP:N	2.15	0.62
1:D:154:ASP:CA	2:D:801:NAG:H82	2.29	0.62
1:A:91:PRO:CD	1:B:3:VAL:HG22	2.28	0.61
1:B:446:THR:CG2	1:B:539:CYS:SG	2.86	0.61
1:C:68:ARG:HD3	1:C:100:ASP:HA	1.82	0.61
1:C:486:GLU:O	1:C:495:LEU:N	2.31	0.61
1:D:68:ARG:HD3	1:D:100:ASP:HA	1.82	0.61
1:D:235:ILE:HG12	1:D:287:GLY:HA2	1.82	0.61
1:D:415:ASP:OD1	1:D:416:GLY:N	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:SER:HB3	1:A:526:ASN:OD1	2.00	0.61
1:A:524:VAL:CG2	2:A:904:NAG:C8	2.78	0.61
1:B:486:GLU:O	1:B:494:MET:CA	2.46	0.61
1:C:1:ASP:H1	1:D:28:LYS:CB	2.13	0.61
1:C:81:VAL:HG11	1:D:43:ALA:C	2.21	0.61
1:D:403:ASN:O	1:D:405:THR:N	2.33	0.61
1:A:374:ASP:O	1:A:375:PRO:O	2.17	0.61
1:C:181:ARG:NE	1:C:213:ASP:OD1	2.34	0.61
1:B:212:THR:HG22	1:B:213:ASP:N	2.15	0.61
1:C:27:ASN:HD21	1:D:93:GLU:H	1.45	0.61
1:C:85:GLY:HA3	1:D:47:PRO:HB2	1.82	0.61
1:D:374:ASP:O	1:D:375:PRO:O	2.17	0.61
1:A:2:TRP:CD1	1:B:80:ALA:HB2	2.35	0.61
1:A:154:ASP:O	1:A:155:PRO:C	2.36	0.61
1:A:411:LEU:HD22	1:A:421:THR:HG23	1.81	0.61
1:C:379:LEU:HD23	1:C:379:LEU:H	1.66	0.61
1:D:403:ASN:CB	2:D:902:NAG:C7	2.76	0.61
1:D:154:ASP:O	2:D:801:NAG:H82	1.98	0.61
1:D:524:VAL:CG2	2:D:904:NAG:C8	2.78	0.61
1:A:91:PRO:N	1:B:1:ASP:O	2.33	0.61
1:B:181:ARG:NE	1:B:213:ASP:OD1	2.34	0.61
1:B:403:ASN:O	1:B:405:THR:N	2.33	0.61
1:C:403:ASN:O	1:C:405:THR:N	2.33	0.61
1:D:469:TYR:CD2	1:D:470:PRO:CD	2.80	0.61
1:D:475:LEU:O	1:D:479:SER:HB3	2.01	0.61
1:A:9:VAL:N	1:D:30:ARG:HD3	2.15	0.61
1:A:403:ASN:O	1:A:405:THR:N	2.33	0.61
1:A:415:ASP:OD1	1:A:416:GLY:N	2.27	0.61
1:B:524:VAL:HG23	2:B:904:NAG:C8	2.29	0.61
1:C:31:PHE:O	1:D:73:LYS:CD	2.47	0.61
1:D:212:THR:HG22	1:D:213:ASP:N	2.15	0.61
1:A:181:ARG:NE	1:A:213:ASP:OD1	2.34	0.61
1:A:379:LEU:HD23	1:A:379:LEU:H	1.66	0.61
1:A:469:TYR:CE1	1:A:470:PRO:HD2	2.34	0.61
1:B:475:LEU:O	1:B:479:SER:HB3	2.01	0.61
1:C:368:SER:HG	1:C:370:PHE:HE1	1.48	0.61
1:D:181:ARG:NE	1:D:213:ASP:OD1	2.34	0.61
1:D:379:LEU:HD23	1:D:379:LEU:H	1.66	0.61
1:A:475:LEU:O	1:A:479:SER:HB3	2.01	0.61
1:D:449:ASP:H	1:D:532:CYS:CB	2.12	0.61
1:A:232:GLU:CG	1:A:290:PHE:N	2.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:68:ARG:HD3	1:B:100:ASP:HA	1.82	0.60
1:C:371:ILE:CG2	1:C:372:GLY:H	2.13	0.60
1:C:88:VAL:CA	1:D:38:ILE:HD11	2.31	0.60
1:C:189:LEU:N	1:C:189:LEU:HD23	2.16	0.60
1:D:189:LEU:N	1:D:189:LEU:HD23	2.16	0.60
1:A:9:VAL:C	1:D:30:ARG:HD2	2.16	0.60
1:B:379:LEU:HD23	1:B:379:LEU:H	1.66	0.60
1:B:450:GLN:HB2	1:B:533:GLU:CA	2.26	0.60
1:C:232:GLU:CG	1:C:290:PHE:N	2.64	0.60
1:C:81:VAL:H	1:D:45:ASN:HD22	1.48	0.60
1:C:90:GLU:CG	1:D:36:TYR:HB3	2.32	0.60
1:D:523:THR:CG2	1:D:524:VAL:H	1.94	0.60
1:B:189:LEU:N	1:B:189:LEU:HD23	2.17	0.60
1:D:403:ASN:CB	2:D:902:NAG:H83	2.21	0.60
1:C:336:VAL:HB	1:C:426:LEU:HD23	1.84	0.60
1:C:514:SER:HA	1:C:517:GLN:O	2.02	0.60
1:A:189:LEU:HD23	1:A:189:LEU:N	2.16	0.60
1:A:265:GLU:HB3	1:A:268:PHE:CE2	2.31	0.60
1:A:371:ILE:CG2	1:A:372:GLY:H	2.13	0.60
1:B:336:VAL:HB	1:B:426:LEU:HD23	1.84	0.60
1:D:227:THR:CG2	2:D:807:NAG:C7	2.76	0.60
1:A:2:TRP:CZ2	1:B:36:TYR:CD2	2.75	0.60
1:C:146:LEU:HA	1:C:194:THR:O	2.02	0.60
1:C:475:LEU:O	1:C:479:SER:HB3	2.01	0.60
1:D:446:THR:CG2	1:D:539:CYS:SG	2.86	0.60
1:B:227:THR:CG2	2:B:807:NAG:C7	2.76	0.60
1:B:396:ARG:NH2	1:B:464:ILE:HG21	2.17	0.60
1:C:32:ASN:CB	1:D:75:VAL:HG23	2.31	0.60
1:C:508:SER:HA	1:C:526:ASN:HA	1.84	0.60
1:C:116:SER:HA	1:C:210:GLN:O	2.02	0.60
1:B:88:VAL:O	1:D:1:ASP:CG	2.40	0.59
1:C:450:GLN:HB2	1:C:533:GLU:CA	2.26	0.59
1:B:508:SER:HA	1:B:526:ASN:HA	1.84	0.59
1:C:81:VAL:HG13	1:D:44:ASP:H	1.63	0.59
1:D:367:LEU:CB	1:D:413:THR:O	2.51	0.59
1:B:514:SER:HA	1:B:517:GLN:O	2.02	0.59
1:C:1:ASP:C	1:D:28:LYS:HZ3	1.97	0.59
1:D:116:SER:HA	1:D:210:GLN:O	2.02	0.59
1:D:232:GLU:CG	1:D:290:PHE:N	2.64	0.59
1:D:514:SER:HA	1:D:517:GLN:O	2.02	0.59
1:A:446:THR:CG2	1:A:539:CYS:SG	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:116:SER:HA	1:B:210:GLN:O	2.02	0.59
1:D:49:GLY:O	1:D:63:THR:HG21	2.02	0.59
1:D:146:LEU:HA	1:D:194:THR:O	2.02	0.59
1:D:239:VAL:HG13	1:D:240:GLN:H	1.67	0.59
1:B:239:VAL:HG13	1:B:240:GLN:H	1.67	0.59
1:B:268:PHE:HA	1:B:285:ALA:HB3	1.84	0.59
1:C:31:PHE:CB	1:D:95:THR:HG21	2.10	0.59
1:D:396:ARG:NH2	1:D:464:ILE:HG21	2.17	0.59
1:A:239:VAL:HG13	1:A:240:GLN:H	1.67	0.59
1:B:449:ASP:H	1:B:532:CYS:CB	2.12	0.59
1:C:443:ARG:HG3	1:C:443:ARG:HH11	1.67	0.59
1:D:336:VAL:HB	1:D:426:LEU:HD23	1.84	0.59
2:A:904:NAG:O7	2:A:904:NAG:C3	2.45	0.59
1:B:49:GLY:O	1:B:63:THR:HG21	2.02	0.59
1:B:286:LYS:O	1:B:287:GLY:O	2.21	0.59
1:C:235:ILE:HG12	1:C:287:GLY:HA2	1.82	0.59
1:C:239:VAL:HG13	1:C:240:GLN:H	1.67	0.59
1:A:49:GLY:O	1:A:63:THR:HG21	2.02	0.59
1:A:116:SER:HA	1:A:210:GLN:O	2.02	0.59
1:A:450:GLN:HB2	1:A:533:GLU:CA	2.26	0.59
1:A:514:SER:HA	1:A:517:GLN:O	2.02	0.59
1:A:518:ASN:O	1:A:520:PRO:CD	2.46	0.59
1:B:155:PRO:C	1:B:157:GLU:N	2.56	0.59
1:C:268:PHE:HA	1:C:285:ALA:HB3	1.84	0.59
1:C:286:LYS:O	1:C:287:GLY:O	2.21	0.59
1:A:90:GLU:CB	1:B:3:VAL:HG23	2.33	0.59
1:A:367:LEU:CB	1:A:413:THR:O	2.51	0.59
1:A:396:ARG:NH2	1:A:464:ILE:HG21	2.17	0.59
1:B:38:ILE:HG22	1:B:53:ILE:HG22	1.85	0.59
1:B:146:LEU:HA	1:B:194:THR:O	2.02	0.59
1:B:367:LEU:CB	1:B:413:THR:O	2.51	0.59
1:B:482:THR:HG22	1:B:499:THR:N	2.13	0.59
1:C:28:LYS:HB3	1:D:76:LEU:O	2.03	0.59
1:C:335:ALA:HB1	3:C:811:NDG:C6	2.33	0.59
1:D:363:GLN:O	1:D:364:ILE:HG22	2.03	0.59
1:D:486:GLU:O	1:D:495:LEU:N	2.31	0.59
1:D:508:SER:HA	1:D:526:ASN:HA	1.84	0.59
1:A:38:ILE:HG22	1:A:53:ILE:HG22	1.85	0.59
1:A:195:ASP:CB	1:A:200:GLY:HA3	2.33	0.59
1:C:49:GLY:O	1:C:63:THR:HG21	2.02	0.59
1:D:289:ASP:O	1:D:290:PHE:CB	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4:ILE:CG2	1:B:91:PRO:O	2.33	0.58
1:B:88:VAL:O	1:D:1:ASP:HB3	2.01	0.58
1:B:473:VAL:HA	1:B:513:LEU:HD23	1.85	0.58
1:C:443:ARG:HA	1:C:525:VAL:HG13	1.85	0.58
1:A:146:LEU:HA	1:A:194:THR:O	2.02	0.58
1:A:299:GLN:C	1:A:300:ILE:HD12	2.24	0.58
1:C:367:LEU:CB	1:C:413:THR:O	2.51	0.58
1:D:38:ILE:HG22	1:D:53:ILE:HG22	1.85	0.58
1:A:286:LYS:O	1:A:287:GLY:O	2.21	0.58
1:B:232:GLU:HG2	1:B:289:ASP:CA	2.33	0.58
1:B:335:ALA:HB1	3:B:811:NDG:C6	2.33	0.58
1:B:403:ASN:CB	2:B:902:NAG:C7	2.76	0.58
1:C:86:SER:N	1:D:74:TYR:HD2	1.94	0.58
1:C:88:VAL:CG2	1:D:76:LEU:HD23	2.25	0.58
1:C:155:PRO:C	1:C:157:GLU:N	2.56	0.58
1:D:443:ARG:HA	1:D:525:VAL:HG13	1.85	0.58
1:A:91:PRO:HA	1:B:1:ASP:C	2.23	0.58
1:A:443:ARG:HH11	1:A:443:ARG:HG3	1.67	0.58
1:B:537:ILE:HG12	1:B:538:LYS:N	2.19	0.58
1:C:309:SER:O	1:C:310:VAL:HG23	2.03	0.58
1:D:232:GLU:HG2	1:D:289:ASP:CA	2.33	0.58
1:D:286:LYS:O	1:D:287:GLY:O	2.21	0.58
1:D:366:LYS:HG3	1:D:367:LEU:N	2.04	0.58
1:B:522:LEU:CD2	1:B:523:THR:HB	2.26	0.58
1:C:28:LYS:HD3	1:D:76:LEU:O	2.02	0.58
1:C:406:TYR:HB3	1:C:428:LEU:CD2	2.33	0.58
1:A:336:VAL:HB	1:A:426:LEU:HD23	1.84	0.58
1:C:31:PHE:HA	1:D:73:LYS:HZ1	1.69	0.58
1:C:226:TYR:CE2	1:C:242:LEU:HD23	2.39	0.58
1:C:447:MET:HB2	1:C:529:VAL:HG22	1.84	0.58
1:D:221:PHE:HA	1:D:244:VAL:HG12	1.85	0.58
1:D:226:TYR:CE2	1:D:242:LEU:HD23	2.39	0.58
1:A:1:ASP:CA	1:B:24:ILE:HD13	2.33	0.58
1:B:42:GLY:HA2	1:B:47:PRO:O	2.04	0.58
1:B:232:GLU:CG	1:B:290:PHE:N	2.64	0.58
1:B:235:ILE:HG12	1:B:287:GLY:HA2	1.82	0.58
1:D:406:TYR:HB3	1:D:428:LEU:CD2	2.33	0.58
1:D:443:ARG:HH11	1:D:443:ARG:HG3	1.67	0.58
1:D:522:LEU:CD2	1:D:523:THR:HB	2.26	0.58
1:D:537:ILE:HG12	1:D:538:LYS:N	2.19	0.58
1:A:363:GLN:O	1:A:364:ILE:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:VAL:HA	1:A:513:LEU:HD23	1.85	0.58
1:C:42:GLY:HA2	1:C:47:PRO:O	2.04	0.58
1:C:232:GLU:HG2	1:C:289:ASP:CA	2.33	0.58
1:C:396:ARG:NH2	1:C:464:ILE:HG21	2.17	0.58
1:D:473:VAL:HA	1:D:513:LEU:HD23	1.85	0.58
1:A:232:GLU:HG2	1:A:289:ASP:CA	2.33	0.58
1:A:537:ILE:HG12	1:A:538:LYS:N	2.19	0.58
1:B:406:TYR:HB3	1:B:428:LEU:CD2	2.33	0.58
1:B:443:ARG:HH11	1:B:443:ARG:HG3	1.67	0.58
1:C:27:ASN:ND2	1:C:27:ASN:C	2.46	0.58
1:C:79:HIS:ND1	1:D:39:THR:HG22	2.19	0.58
1:D:296:TYR:HB2	1:D:321:VAL:HB	1.86	0.58
1:A:89:GLU:CD	1:B:2:TRP:CD1	2.51	0.58
1:A:154:ASP:CB	1:A:155:PRO:CD	2.82	0.58
1:A:221:PHE:HA	1:A:244:VAL:HG12	1.85	0.58
1:A:309:SER:O	1:A:310:VAL:HG23	2.03	0.58
1:A:406:TYR:HB3	1:A:428:LEU:CD2	2.33	0.58
1:A:508:SER:HA	1:A:526:ASN:HA	1.84	0.58
1:B:415:ASP:OD1	1:B:416:GLY:N	2.27	0.58
1:B:443:ARG:HA	1:B:525:VAL:HG13	1.85	0.58
1:C:38:ILE:HG22	1:C:53:ILE:HG22	1.85	0.58
1:C:299:GLN:C	1:C:300:ILE:HD12	2.24	0.58
1:C:332:PHE:CD2	1:C:424:GLY:HA3	2.39	0.58
1:D:42:GLY:HA2	1:D:47:PRO:O	2.04	0.58
1:A:42:GLY:HA2	1:A:47:PRO:O	2.04	0.57
1:A:406:TYR:HB3	1:A:428:LEU:HD21	1.86	0.57
1:B:87:PRO:CG	1:C:2:TRP:HB2	2.29	0.57
1:B:309:SER:O	1:B:310:VAL:HG23	2.03	0.57
1:C:90:GLU:CG	1:D:79:HIS:O	2.51	0.57
1:A:268:PHE:HA	1:A:285:ALA:HB3	1.84	0.57
1:A:447:MET:HB2	1:A:529:VAL:HG22	1.84	0.57
1:B:299:GLN:C	1:B:300:ILE:HD12	2.24	0.57
1:B:332:PHE:CD2	1:B:424:GLY:HA3	2.39	0.57
1:B:406:TYR:HB3	1:B:428:LEU:HD21	1.87	0.57
1:C:84:ASN:O	1:D:74:TYR:CE2	2.57	0.57
1:C:88:VAL:CG1	1:D:94:ILE:O	2.52	0.57
1:C:240:GLN:HG3	1:C:241:ARG:N	2.19	0.57
1:D:240:GLN:HG3	1:D:241:ARG:N	2.19	0.57
1:D:268:PHE:HA	1:D:285:ALA:HB3	1.84	0.57
1:A:332:PHE:CD2	1:A:424:GLY:HA3	2.39	0.57
1:B:154:ASP:CB	1:B:155:PRO:CD	2.82	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:PHE:HA	1:B:244:VAL:HG12	1.85	0.57
1:B:226:TYR:CE2	1:B:242:LEU:HD23	2.39	0.57
1:B:523:THR:CG2	1:B:524:VAL:H	1.94	0.57
1:C:296:TYR:HB2	1:C:321:VAL:HB	1.86	0.57
1:C:473:VAL:HA	1:C:513:LEU:HD23	1.85	0.57
1:D:299:GLN:C	1:D:300:ILE:HD12	2.24	0.57
1:D:447:MET:HB2	1:D:529:VAL:HG22	1.84	0.57
1:B:155:PRO:N	2:B:801:NAG:H82	2.20	0.57
1:B:447:MET:HB2	1:B:529:VAL:HG22	1.84	0.57
1:C:87:PRO:C	1:D:38:ILE:HD11	2.24	0.57
1:C:154:ASP:CB	2:C:801:NAG:HN2	2.16	0.57
1:D:154:ASP:CB	1:D:155:PRO:CD	2.82	0.57
1:D:330:PRO:HD3	1:D:414:ASP:HB2	1.86	0.57
1:A:336:VAL:HG12	1:A:338:ARG:HB2	1.87	0.57
1:B:28:LYS:NZ	1:D:2:TRP:O	2.33	0.57
1:C:79:HIS:HB3	1:D:44:ASP:CG	2.25	0.57
1:C:83:GLU:CB	1:D:41:GLN:HE22	2.16	0.57
1:A:2:TRP:CZ2	1:B:79:HIS:O	2.38	0.57
1:B:68:ARG:HG3	1:B:69:GLU:N	2.19	0.57
1:B:330:PRO:HD3	1:B:414:ASP:HB2	1.86	0.57
1:C:87:PRO:CD	1:D:43:ALA:N	2.65	0.57
1:C:363:GLN:O	1:C:364:ILE:HG22	2.03	0.57
1:D:32:ASN:HD22	1:D:83:GLU:H	1.51	0.57
1:D:195:ASP:CB	1:D:200:GLY:HA3	2.33	0.57
1:D:482:THR:HG22	1:D:499:THR:N	2.13	0.57
1:A:10:SER:CA	1:D:30:ARG:HD2	2.35	0.57
1:A:235:ILE:HG12	1:A:287:GLY:HA2	1.82	0.57
1:B:195:ASP:CB	1:B:200:GLY:HA3	2.33	0.57
1:B:363:GLN:O	1:B:364:ILE:HG22	2.03	0.57
1:B:393:ASN:C	1:B:394:LEU:HD12	2.25	0.57
1:D:332:PHE:CD2	1:D:424:GLY:HA3	2.39	0.57
1:D:406:TYR:HB3	1:D:428:LEU:HD21	1.87	0.57
1:A:330:PRO:HD3	1:A:414:ASP:HB2	1.86	0.57
1:C:195:ASP:CB	1:C:200:GLY:HA3	2.33	0.57
1:C:505:GLY:HA2	1:C:529:VAL:H	1.69	0.57
1:D:154:ASP:CB	2:D:801:NAG:HN2	2.16	0.57
1:A:108:PHE:CE1	1:A:203:VAL:HG23	2.40	0.57
1:A:296:TYR:HB2	1:A:321:VAL:HB	1.86	0.57
1:A:335:ALA:HB1	3:A:811:NDG:C6	2.33	0.57
1:A:369:TYR:HD1	1:A:383:LYS:O	1.88	0.57
1:B:189:LEU:HD21	1:B:209:ILE:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:222:ASP:N	1:B:243:SER:O	2.38	0.57
1:B:240:GLN:HG3	1:B:241:ARG:N	2.19	0.57
1:B:259:TYR:O	1:B:260:LYS:HB3	2.05	0.57
1:B:336:VAL:HG12	1:B:338:ARG:HB2	1.87	0.57
1:C:89:GLU:N	1:D:38:ILE:CG1	2.58	0.57
1:D:369:TYR:HD1	1:D:383:LYS:O	1.88	0.57
1:C:26:SER:CB	1:D:77:SER:HB2	2.34	0.57
1:C:154:ASP:CB	1:C:155:PRO:CD	2.82	0.57
1:C:221:PHE:HA	1:C:244:VAL:HG12	1.85	0.57
1:C:537:ILE:HG12	1:C:538:LYS:N	2.19	0.57
1:A:240:GLN:HG3	1:A:241:ARG:N	2.19	0.56
1:B:118:ARG:HA	1:B:212:THR:HB	1.87	0.56
1:D:335:ALA:HB1	3:D:811:NDG:C6	2.33	0.56
1:A:118:ARG:HA	1:A:212:THR:HB	1.87	0.56
1:A:393:ASN:C	1:A:394:LEU:HD12	2.25	0.56
1:A:443:ARG:HA	1:A:525:VAL:HG13	1.85	0.56
1:B:85:GLY:O	1:D:90:GLU:HA	2.05	0.56
1:B:378:TRP:O	1:B:391:ASN:HB2	2.06	0.56
1:D:68:ARG:HG3	1:D:69:GLU:N	2.19	0.56
1:A:68:ARG:HG3	1:A:69:GLU:N	2.19	0.56
1:A:226:TYR:CE2	1:A:242:LEU:HD23	2.39	0.56
1:A:505:GLY:HA2	1:A:529:VAL:H	1.69	0.56
1:B:369:TYR:HD1	1:B:383:LYS:O	1.88	0.56
1:C:27:ASN:HD21	1:D:93:GLU:HB3	1.60	0.56
1:C:82:SER:OG	1:D:74:TYR:HB3	2.05	0.56
1:C:155:PRO:N	2:C:801:NAG:H82	2.20	0.56
1:C:369:TYR:HD1	1:C:383:LYS:O	1.88	0.56
1:D:189:LEU:HD21	1:D:209:ILE:HD12	1.87	0.56
1:D:309:SER:O	1:D:310:VAL:HG23	2.03	0.56
1:B:154:ASP:CB	2:B:801:NAG:HN2	2.16	0.56
1:B:296:TYR:HB2	1:B:321:VAL:HB	1.86	0.56
1:C:32:ASN:CG	1:C:33:LYS:N	2.59	0.56
1:C:68:ARG:HG3	1:C:69:GLU:N	2.19	0.56
1:C:85:GLY:HA2	1:D:41:GLN:C	2.13	0.56
1:C:335:ALA:HB1	3:C:811:NDG:H6	1.66	0.56
1:C:336:VAL:HG12	1:C:338:ARG:HB2	1.87	0.56
1:C:393:ASN:C	1:C:394:LEU:HD12	2.25	0.56
1:D:378:TRP:O	1:D:391:ASN:HB2	2.06	0.56
1:D:517:GLN:C	1:D:519:ASN:N	2.47	0.56
1:A:5:PRO:N	1:B:91:PRO:HB2	2.21	0.56
1:A:259:TYR:O	1:A:260:LYS:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:GLU:CG	1:C:25:LYS:HD3	2.25	0.56
1:B:394:LEU:N	1:B:394:LEU:CD1	2.69	0.56
1:C:432:ASP:CG	1:C:464:ILE:CG2	2.74	0.56
1:D:222:ASP:N	1:D:243:SER:O	2.38	0.56
1:A:155:PRO:C	1:A:157:GLU:N	2.56	0.56
1:A:189:LEU:HD21	1:A:209:ILE:HD12	1.87	0.56
1:A:222:ASP:N	1:A:243:SER:O	2.38	0.56
1:B:30:ARG:NH1	1:C:30:ARG:HB3	2.21	0.56
1:C:108:PHE:CE1	1:C:203:VAL:HG23	2.40	0.56
1:C:378:TRP:O	1:C:391:ASN:HB2	2.06	0.56
1:C:415:ASP:OD1	1:C:416:GLY:N	2.26	0.56
1:D:155:PRO:N	2:D:801:NAG:H82	2.20	0.56
1:A:403:ASN:CB	2:A:902:NAG:H83	2.21	0.56
1:B:108:PHE:CE1	1:B:203:VAL:HG23	2.40	0.56
1:C:189:LEU:HD21	1:C:209:ILE:HD12	1.87	0.56
1:D:32:ASN:CG	1:D:33:LYS:N	2.59	0.56
1:A:4:ILE:CA	1:B:91:PRO:CD	2.69	0.56
1:C:162:LEU:O	1:C:174:LEU:HD12	2.06	0.56
1:C:365:GLN:O	1:C:365:GLN:CG	2.54	0.56
1:D:108:PHE:CE1	1:D:203:VAL:HG23	2.40	0.56
1:D:162:LEU:O	1:D:174:LEU:HD12	2.06	0.56
1:D:393:ASN:C	1:D:394:LEU:HD12	2.25	0.56
1:D:450:GLN:HB2	1:D:533:GLU:CA	2.26	0.56
1:B:505:GLY:HA2	1:B:529:VAL:H	1.69	0.56
1:C:118:ARG:HA	1:C:212:THR:HB	1.87	0.56
1:C:406:TYR:HB3	1:C:428:LEU:HD21	1.86	0.56
1:D:432:ASP:CG	1:D:464:ILE:CG2	2.74	0.56
1:C:31:PHE:O	1:D:73:LYS:CE	2.54	0.56
1:C:88:VAL:HG13	1:D:94:ILE:O	2.05	0.56
1:C:222:ASP:N	1:C:243:SER:O	2.38	0.56
1:C:482:THR:HG21	1:C:499:THR:C	2.27	0.56
1:D:336:VAL:HG12	1:D:338:ARG:HB2	1.87	0.56
1:A:2:TRP:CH2	1:B:35:TYR:O	2.58	0.55
1:A:394:LEU:N	1:A:394:LEU:CD1	2.69	0.55
1:D:339:VAL:HG21	1:D:351:ILE:CG2	2.36	0.55
1:B:162:LEU:O	1:B:174:LEU:HD12	2.06	0.55
1:C:35:TYR:HB3	1:D:45:ASN:ND2	2.22	0.55
1:C:330:PRO:HD3	1:C:414:ASP:HB2	1.86	0.55
1:D:259:TYR:O	1:D:260:LYS:HB3	2.05	0.55
1:B:318:THR:CG2	2:B:806:NAG:H5	2.34	0.55
1:C:1:ASP:N	1:D:89:GLU:OE2	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:89:GLU:C	1:D:38:ILE:HG13	2.26	0.55
1:C:352:ILE:HG13	1:C:388:VAL:CB	2.33	0.55
1:C:403:ASN:CB	2:C:902:NAG:H83	2.21	0.55
1:D:155:PRO:HG2	2:D:801:NAG:O7	2.07	0.55
1:D:505:GLY:HA2	1:D:529:VAL:H	1.70	0.55
1:A:333:VAL:CG2	1:A:334:PRO:HD3	2.36	0.55
1:A:482:THR:HG21	1:A:499:THR:C	2.27	0.55
1:B:339:VAL:HG21	1:B:351:ILE:CG2	2.37	0.55
1:C:79:HIS:HB3	1:D:39:THR:CB	2.36	0.55
1:C:259:TYR:O	1:C:260:LYS:HB3	2.05	0.55
1:C:339:VAL:HG21	1:C:351:ILE:CG2	2.37	0.55
1:D:118:ARG:HA	1:D:212:THR:HB	1.87	0.55
1:D:268:PHE:CD2	1:D:268:PHE:N	2.75	0.55
1:D:394:LEU:N	1:D:394:LEU:CD1	2.69	0.55
1:A:365:GLN:O	1:A:365:GLN:CG	2.54	0.55
1:B:30:ARG:NH1	1:C:30:ARG:CG	2.69	0.55
1:C:278:ASN:HD22	1:C:278:ASN:N	2.05	0.55
1:D:28:LYS:HB3	1:D:88:VAL:HG11	1.89	0.55
1:A:154:ASP:CG	1:A:155:PRO:CD	2.75	0.55
1:A:162:LEU:O	1:A:174:LEU:HD12	2.06	0.55
1:A:318:THR:CG2	2:A:806:NAG:H5	2.34	0.55
1:C:79:HIS:N	1:D:39:THR:HG21	2.10	0.55
1:C:459:ILE:HG21	1:C:471:TYR:CE2	2.42	0.55
1:D:155:PRO:C	1:D:157:GLU:N	2.56	0.55
1:D:419:VAL:CG1	1:D:420:GLY:N	2.70	0.55
1:A:32:ASN:CG	1:A:33:LYS:N	2.59	0.55
1:B:330:PRO:HB3	1:B:358:ASP:HB2	1.89	0.55
1:C:333:VAL:CG2	1:C:334:PRO:HD3	2.36	0.55
1:C:394:LEU:N	1:C:394:LEU:CD1	2.69	0.55
1:C:439:VAL:HG13	1:C:522:LEU:HD11	1.88	0.55
1:A:419:VAL:CG1	1:A:420:GLY:N	2.70	0.55
1:B:28:LYS:HE3	1:D:4:ILE:N	2.13	0.55
1:B:226:TYR:O	1:B:227:THR:CG2	2.55	0.55
1:B:419:VAL:CG1	1:B:420:GLY:N	2.70	0.55
1:B:482:THR:HG21	1:B:499:THR:C	2.27	0.55
1:C:81:VAL:HG21	1:D:45:ASN:N	2.20	0.55
1:C:86:SER:O	1:D:41:GLN:O	2.25	0.55
1:D:154:ASP:CG	1:D:155:PRO:CD	2.75	0.55
1:A:155:PRO:N	2:A:801:NAG:H82	2.20	0.55
1:A:226:TYR:O	1:A:227:THR:CG2	2.55	0.55
1:B:83:GLU:CB	1:C:25:LYS:CG	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:333:VAL:CG2	1:B:334:PRO:HD3	2.36	0.55
1:B:432:ASP:CG	1:B:464:ILE:CG2	2.74	0.55
1:C:82:SER:OG	1:D:74:TYR:CD2	2.60	0.55
1:C:83:GLU:CA	1:D:41:GLN:HE22	2.06	0.55
1:C:155:PRO:HG2	2:C:801:NAG:O7	2.07	0.55
1:D:278:ASN:HD22	1:D:278:ASN:N	2.05	0.55
1:D:459:ILE:HG21	1:D:471:TYR:CE2	2.42	0.55
1:D:466:PRO:O	1:D:468:THR:N	2.40	0.55
1:A:10:SER:N	1:D:30:ARG:HD2	2.20	0.55
1:A:363:GLN:C	1:A:364:ILE:CG2	2.76	0.55
1:A:378:TRP:O	1:A:391:ASN:HB2	2.06	0.55
1:A:438:PRO:HB2	1:A:513:LEU:HD12	1.89	0.55
1:A:459:ILE:HG21	1:A:471:TYR:CE2	2.42	0.55
1:B:154:ASP:CG	1:B:155:PRO:CD	2.75	0.55
1:B:155:PRO:HG2	2:B:801:NAG:O7	2.07	0.55
1:C:31:PHE:CB	1:D:75:VAL:CG2	2.80	0.55
1:D:333:VAL:CG2	1:D:334:PRO:HD3	2.36	0.55
1:D:482:THR:HG21	1:D:499:THR:C	2.27	0.55
1:A:75:VAL:O	1:A:76:LEU:HD23	2.07	0.54
1:B:28:LYS:HB3	1:B:88:VAL:HG11	1.89	0.54
1:B:32:ASN:C	1:C:25:LYS:CE	2.68	0.54
1:B:466:PRO:O	1:B:468:THR:N	2.40	0.54
1:C:31:PHE:CD2	1:D:74:TYR:O	2.60	0.54
1:D:363:GLN:C	1:D:364:ILE:CG2	2.75	0.54
1:D:439:VAL:HG13	1:D:522:LEU:HD11	1.88	0.54
1:A:339:VAL:HG21	1:A:351:ILE:CG2	2.37	0.54
1:C:226:TYR:HB2	1:C:319:VAL:HG22	1.89	0.54
1:D:272:THR:CG2	1:D:273:THR:H	2.19	0.54
1:A:90:GLU:HB2	1:B:3:VAL:O	2.06	0.54
1:A:330:PRO:HB3	1:A:358:ASP:HB2	1.89	0.54
1:A:432:ASP:CG	1:A:464:ILE:CG2	2.74	0.54
1:A:466:PRO:O	1:A:468:THR:N	2.40	0.54
1:A:490:LYS:O	1:A:490:LYS:HG2	2.08	0.54
1:B:169:THR:OG1	1:B:171:VAL:HG23	2.07	0.54
1:C:32:ASN:HD22	1:C:83:GLU:H	1.51	0.54
1:C:169:THR:OG1	1:C:171:VAL:HG23	2.08	0.54
1:D:226:TYR:O	1:D:227:THR:CG2	2.55	0.54
1:D:330:PRO:HB3	1:D:358:ASP:HB2	1.89	0.54
1:B:439:VAL:HG13	1:B:522:LEU:HD11	1.88	0.54
1:B:450:GLN:CB	1:B:532:CYS:O	2.56	0.54
1:C:154:ASP:CG	1:C:155:PRO:CD	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:367:LEU:C	1:C:367:LEU:HD12	2.28	0.54
1:C:419:VAL:CG1	1:C:420:GLY:N	2.70	0.54
1:B:226:TYR:HB2	1:B:319:VAL:HG22	1.89	0.54
1:C:28:LYS:HB3	1:C:88:VAL:HG11	1.89	0.54
1:D:117:VAL:O	1:D:211:ILE:HA	2.07	0.54
1:A:10:SER:CB	1:D:30:ARG:HG3	2.36	0.54
1:A:268:PHE:CD2	1:A:268:PHE:N	2.75	0.54
1:A:332:PHE:HD2	1:A:424:GLY:HA3	1.73	0.54
1:A:439:VAL:HG13	1:A:522:LEU:HD11	1.88	0.54
1:C:87:PRO:CG	1:D:43:ALA:HB2	1.86	0.54
1:C:88:VAL:CG2	1:D:75:VAL:O	2.43	0.54
1:C:268:PHE:CD2	1:C:268:PHE:N	2.75	0.54
1:C:466:PRO:O	1:C:468:THR:N	2.40	0.54
1:D:367:LEU:C	1:D:367:LEU:HD12	2.28	0.54
1:D:490:LYS:O	1:D:490:LYS:HG2	2.08	0.54
1:B:217:ASN:N	1:B:217:ASN:ND2	2.56	0.54
1:B:367:LEU:C	1:B:367:LEU:HD12	2.28	0.54
1:C:1:ASP:N	1:D:28:LYS:CB	2.71	0.54
1:D:169:THR:OG1	1:D:171:VAL:HG23	2.07	0.54
1:A:28:LYS:HB3	1:A:88:VAL:HG11	1.89	0.54
1:A:155:PRO:HG2	2:A:801:NAG:O7	2.07	0.54
1:B:459:ILE:HG21	1:B:471:TYR:CE2	2.42	0.54
1:C:26:SER:HG	1:D:77:SER:CB	2.19	0.54
1:C:93:GLU:HB3	1:D:81:VAL:CG1	2.37	0.54
1:C:117:VAL:O	1:C:211:ILE:HA	2.07	0.54
1:C:226:TYR:O	1:C:227:THR:CG2	2.55	0.54
1:C:330:PRO:HB3	1:C:358:ASP:HB2	1.89	0.54
1:D:217:ASN:N	1:D:217:ASN:ND2	2.56	0.54
1:D:332:PHE:HD2	1:D:424:GLY:HA3	1.73	0.54
1:A:272:THR:CG2	1:A:273:THR:H	2.18	0.54
1:A:367:LEU:HD12	1:A:367:LEU:C	2.28	0.54
1:B:363:GLN:C	1:B:364:ILE:CG2	2.76	0.54
1:B:403:ASN:CB	2:B:902:NAG:H83	2.21	0.54
1:D:241:ARG:NE	1:D:281:ILE:HD12	2.22	0.54
1:D:438:PRO:HB2	1:D:513:LEU:HD12	1.89	0.54
1:B:252:THR:HG23	1:B:253:PRO:HD2	1.90	0.54
1:B:490:LYS:O	1:B:490:LYS:HG2	2.08	0.54
1:C:90:GLU:H	1:D:79:HIS:N	1.91	0.54
1:C:217:ASN:N	1:C:217:ASN:ND2	2.56	0.54
1:C:252:THR:HG23	1:C:253:PRO:HD2	1.90	0.54
1:C:363:GLN:C	1:C:364:ILE:CG2	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:443:ARG:HG3	1:D:443:ARG:NH1	2.24	0.54
1:A:32:ASN:HD22	1:A:83:GLU:H	1.51	0.53
1:A:217:ASN:N	1:A:217:ASN:ND2	2.56	0.53
1:B:75:VAL:O	1:B:76:LEU:HD23	2.08	0.53
1:B:81:VAL:CB	1:D:90:GLU:HG2	2.37	0.53
1:B:86:SER:N	1:D:91:PRO:CD	2.70	0.53
1:B:117:VAL:O	1:B:211:ILE:HA	2.07	0.53
1:B:249:MET:O	1:B:252:THR:HB	2.08	0.53
1:B:272:THR:CG2	1:B:273:THR:H	2.19	0.53
1:A:249:MET:O	1:A:252:THR:HB	2.09	0.53
1:A:373:ASN:HB3	1:A:409:ILE:H	1.74	0.53
1:B:403:ASN:C	1:B:405:THR:H	2.12	0.53
1:B:438:PRO:HB2	1:B:513:LEU:HD12	1.89	0.53
1:B:458:THR:HG22	1:B:493:SER:HB3	1.91	0.53
1:C:85:GLY:N	1:D:74:TYR:CD2	2.77	0.53
1:A:117:VAL:O	1:A:211:ILE:HA	2.07	0.53
1:A:443:ARG:HG3	1:A:443:ARG:NH1	2.23	0.53
1:C:75:VAL:O	1:C:76:LEU:HD23	2.08	0.53
1:C:79:HIS:CB	1:D:39:THR:CB	2.80	0.53
1:C:438:PRO:HB2	1:C:513:LEU:HD12	1.89	0.53
1:C:522:LEU:CD2	1:C:523:THR:HB	2.26	0.53
1:D:105:ARG:HG3	1:D:106:PRO:HD2	1.91	0.53
1:D:373:ASN:HB3	1:D:409:ILE:H	1.73	0.53
1:D:450:GLN:CB	1:D:532:CYS:O	2.56	0.53
1:A:22:VAL:HG22	1:A:23:GLN:H	1.73	0.53
1:A:458:THR:HG22	1:A:493:SER:HB3	1.91	0.53
1:C:88:VAL:C	1:D:38:ILE:CG1	2.76	0.53
1:C:154:ASP:C	2:C:801:NAG:C8	2.62	0.53
1:C:443:ARG:HG3	1:C:443:ARG:NH1	2.23	0.53
1:C:450:GLN:CB	1:C:532:CYS:O	2.56	0.53
1:D:458:THR:HG22	1:D:493:SER:HB3	1.91	0.53
1:B:332:PHE:HD2	1:B:424:GLY:HA3	1.73	0.53
1:B:373:ASN:HB3	1:B:409:ILE:H	1.74	0.53
1:C:83:GLU:C	1:D:41:GLN:NE2	2.61	0.53
1:C:490:LYS:HG2	1:C:490:LYS:O	2.08	0.53
1:C:533:GLU:HA	1:C:533:GLU:OE2	2.09	0.53
1:D:22:VAL:HG22	1:D:23:GLN:H	1.73	0.53
1:D:367:LEU:HD13	1:D:412:VAL:HG23	1.91	0.53
1:A:320:THR:CG2	2:A:807:NAG:C2	2.77	0.53
1:C:105:ARG:HG3	1:C:106:PRO:HD2	1.91	0.53
1:C:272:THR:CG2	1:C:273:THR:H	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:276:GLU:CG	1:C:277:SER:N	2.71	0.53
1:D:75:VAL:O	1:D:76:LEU:HD23	2.08	0.53
1:A:169:THR:OG1	1:A:171:VAL:HG23	2.07	0.53
1:C:312:LEU:O	3:C:804:NDG:C8	2.57	0.53
1:C:369:TYR:O	1:C:383:LYS:HG2	2.09	0.53
1:D:242:LEU:O	1:D:279:GLN:HB3	2.09	0.53
1:D:249:MET:O	1:D:252:THR:HB	2.08	0.53
1:B:379:LEU:H	1:B:379:LEU:CD2	2.22	0.53
1:C:318:THR:CG2	2:C:806:NAG:H5	2.34	0.53
1:C:332:PHE:HD2	1:C:424:GLY:HA3	1.73	0.53
1:A:154:ASP:CB	2:A:801:NAG:HN2	2.16	0.53
1:A:242:LEU:O	1:A:279:GLN:HB3	2.09	0.53
1:A:312:LEU:O	3:A:804:NDG:C8	2.57	0.53
1:A:347:ARG:HG3	1:A:391:ASN:HA	1.91	0.53
1:A:403:ASN:C	1:A:405:THR:H	2.12	0.53
1:B:276:GLU:CG	1:B:277:SER:N	2.71	0.53
1:B:369:TYR:O	1:B:383:LYS:HG2	2.09	0.53
1:A:4:ILE:CB	1:B:90:GLU:C	2.76	0.53
1:A:252:THR:HG23	1:A:253:PRO:HD2	1.90	0.53
1:A:278:ASN:HD22	1:A:278:ASN:N	2.05	0.53
1:C:249:MET:O	1:C:252:THR:HB	2.08	0.53
1:D:403:ASN:C	1:D:405:THR:H	2.12	0.53
1:A:289:ASP:O	1:A:290:PHE:CB	2.25	0.52
1:B:347:ARG:HG3	1:B:391:ASN:HA	1.91	0.52
1:C:1:ASP:O	1:D:28:LYS:CD	2.57	0.52
1:D:31:PHE:CD2	1:D:32:ASN:HB2	2.44	0.52
1:D:227:THR:CG2	2:D:807:NAG:H83	2.32	0.52
1:A:226:TYR:HB2	1:A:319:VAL:HG22	1.89	0.52
1:A:369:TYR:O	1:A:383:LYS:HG2	2.09	0.52
1:A:2:TRP:CZ2	1:B:36:TYR:HA	2.43	0.52
1:A:4:ILE:CA	1:B:91:PRO:CB	2.81	0.52
1:A:24:ILE:HA	1:D:2:TRP:CB	2.33	0.52
1:A:24:ILE:CG2	1:D:2:TRP:HE1	2.18	0.52
1:A:31:PHE:CD2	1:A:32:ASN:HB2	2.45	0.52
1:A:352:ILE:HG13	1:A:388:VAL:CB	2.33	0.52
1:A:450:GLN:CB	1:A:532:CYS:O	2.56	0.52
1:A:512:LEU:HD11	1:A:519:ASN:HD21	1.75	0.52
1:B:31:PHE:CD2	1:B:32:ASN:HB2	2.44	0.52
1:C:81:VAL:CG1	1:D:43:ALA:H	2.22	0.52
1:D:312:LEU:O	3:D:804:NDG:C8	2.57	0.52
1:D:496:LEU:HD21	1:D:509:ILE:CD1	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:512:LEU:HD11	1:D:519:ASN:HD21	1.74	0.52
1:D:533:GLU:HA	1:D:533:GLU:OE2	2.09	0.52
1:A:2:TRP:HH2	1:B:35:TYR:O	1.92	0.52
1:B:443:ARG:HG3	1:B:443:ARG:NH1	2.23	0.52
1:C:31:PHE:CD2	1:C:32:ASN:HB2	2.45	0.52
1:C:91:PRO:N	1:D:79:HIS:HD2	2.03	0.52
1:C:268:PHE:C	1:C:285:ALA:HB3	2.30	0.52
1:C:379:LEU:H	1:C:379:LEU:CD2	2.22	0.52
1:D:272:THR:CG2	2:D:803:NAG:HN2	2.23	0.52
1:A:367:LEU:HD13	1:A:412:VAL:HG23	1.91	0.52
1:B:22:VAL:HG22	1:B:23:GLN:H	1.73	0.52
1:B:312:LEU:O	3:B:804:NDG:C8	2.57	0.52
1:B:496:LEU:HD21	1:B:509:ILE:CD1	2.38	0.52
1:C:403:ASN:C	1:C:405:THR:H	2.12	0.52
1:D:226:TYR:HB2	1:D:319:VAL:HG22	1.89	0.52
1:B:30:ARG:NH1	1:C:30:ARG:HG2	2.25	0.52
1:B:512:LEU:HD11	1:B:519:ASN:HD21	1.75	0.52
1:C:28:LYS:CB	1:D:76:LEU:O	2.57	0.52
1:C:194:THR:HG22	1:C:195:ASP:N	2.25	0.52
1:C:512:LEU:HD11	1:C:519:ASN:HD21	1.74	0.52
1:D:318:THR:CG2	2:D:806:NAG:H5	2.34	0.52
1:D:396:ARG:NH2	1:D:464:ILE:HG22	2.12	0.52
1:A:268:PHE:C	1:A:285:ALA:HB3	2.30	0.52
1:A:338:ARG:HB3	1:A:339:VAL:HG22	1.92	0.52
1:A:371:ILE:HG23	1:A:372:GLY:H	1.73	0.52
1:A:402:LYS:C	1:A:403:ASN:O	2.46	0.52
1:C:1:ASP:CA	1:D:89:GLU:OE1	2.39	0.52
1:C:93:GLU:CA	1:D:81:VAL:HG11	2.38	0.52
1:C:242:LEU:O	1:C:279:GLN:HB3	2.09	0.52
1:C:336:VAL:O	1:C:426:LEU:HD22	2.10	0.52
1:C:338:ARG:HB3	1:C:339:VAL:HG22	1.92	0.52
1:C:367:LEU:HD13	1:C:412:VAL:HG23	1.91	0.52
1:C:371:ILE:HG23	1:C:372:GLY:H	1.73	0.52
1:C:458:THR:HG22	1:C:493:SER:HB3	1.90	0.52
1:D:338:ARG:HB3	1:D:339:VAL:HG22	1.92	0.52
1:A:496:LEU:HD21	1:A:509:ILE:CD1	2.38	0.52
1:A:505:GLY:O	1:A:506:ASP:OD1	2.28	0.52
1:B:272:THR:CG2	2:B:803:NAG:HN2	2.23	0.52
1:B:371:ILE:HG23	1:B:372:GLY:H	1.73	0.52
1:B:426:LEU:O	1:B:426:LEU:HD13	2.10	0.52
1:C:27:ASN:HD21	1:D:93:GLU:N	2.04	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:347:ARG:HG3	1:C:391:ASN:HA	1.91	0.52
1:C:373:ASN:HB3	1:C:409:ILE:H	1.73	0.52
1:C:450:GLN:CB	1:C:533:GLU:HA	2.29	0.52
1:D:365:GLN:O	1:D:365:GLN:CG	2.54	0.52
1:A:105:ARG:HG3	1:A:106:PRO:HD2	1.91	0.52
1:A:138:ASN:HD22	1:A:138:ASN:C	2.13	0.52
1:B:89:GLU:N	1:D:1:ASP:CB	2.46	0.52
1:B:194:THR:HG22	1:B:195:ASP:N	2.25	0.52
1:D:138:ASN:C	1:D:138:ASN:HD22	2.13	0.52
1:D:155:PRO:CD	2:D:801:NAG:H82	2.40	0.52
1:D:482:THR:CG2	1:D:499:THR:CA	2.87	0.52
1:B:105:ARG:HG3	1:B:106:PRO:HD2	1.91	0.52
1:B:221:PHE:HB3	1:B:223:PRO:O	2.10	0.52
1:B:367:LEU:HD13	1:B:412:VAL:HG23	1.91	0.52
1:D:221:PHE:HB3	1:D:223:PRO:O	2.10	0.52
1:D:252:THR:HG23	1:D:253:PRO:HD2	1.90	0.52
1:D:347:ARG:HD2	1:D:392:GLY:N	2.25	0.52
1:D:371:ILE:HG23	1:D:372:GLY:H	1.73	0.52
1:D:482:THR:HG22	1:D:482:THR:O	2.09	0.52
1:D:505:GLY:O	1:D:506:ASP:OD1	2.28	0.52
1:A:272:THR:CG2	2:A:803:NAG:HN2	2.23	0.51
1:A:482:THR:CG2	1:A:499:THR:CA	2.87	0.51
1:B:533:GLU:HA	1:B:533:GLU:OE2	2.09	0.51
1:C:30:ARG:NH2	1:D:6:PRO:HG3	2.25	0.51
1:D:234:GLU:HB2	1:D:235:ILE:HG22	1.93	0.51
1:D:369:TYR:O	1:D:383:LYS:HG2	2.09	0.51
1:A:3:VAL:HG21	1:B:77:SER:OG	2.10	0.51
1:A:221:PHE:HB3	1:A:223:PRO:O	2.10	0.51
1:A:514:SER:HB3	1:A:517:GLN:O	2.10	0.51
1:A:533:GLU:HA	1:A:533:GLU:OE2	2.09	0.51
1:B:142:LEU:O	1:B:196:LEU:HD23	2.11	0.51
1:B:242:LEU:O	1:B:279:GLN:HB3	2.09	0.51
1:B:266:GLY:N	1:B:268:PHE:CE2	2.76	0.51
1:B:268:PHE:C	1:B:285:ALA:HB3	2.30	0.51
1:C:22:VAL:HG22	1:C:23:GLN:H	1.73	0.51
1:C:272:THR:CG2	2:C:803:NAG:HN2	2.23	0.51
1:C:482:THR:CG2	1:C:499:THR:CA	2.87	0.51
1:C:514:SER:HB3	1:C:517:GLN:O	2.11	0.51
1:A:234:GLU:HB2	1:A:235:ILE:HG22	1.93	0.51
1:B:81:VAL:CG1	1:D:90:GLU:HG2	2.40	0.51
1:B:155:PRO:CD	2:B:801:NAG:H82	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:333:VAL:CB	1:B:334:PRO:CD	2.88	0.51
1:C:33:LYS:HB3	1:C:83:GLU:CG	2.40	0.51
1:C:88:VAL:HG22	1:D:75:VAL:O	2.03	0.51
1:C:426:LEU:O	1:C:426:LEU:HD13	2.10	0.51
1:D:333:VAL:CB	1:D:334:PRO:CD	2.88	0.51
1:D:347:ARG:HG3	1:D:391:ASN:HA	1.91	0.51
1:D:426:LEU:O	1:D:426:LEU:HD13	2.09	0.51
1:D:514:SER:HB3	1:D:517:GLN:O	2.10	0.51
1:A:90:GLU:CB	1:B:3:VAL:CA	2.60	0.51
1:A:396:ARG:CZ	1:A:432:ASP:HB2	2.41	0.51
1:A:426:LEU:O	1:A:426:LEU:HD13	2.09	0.51
1:B:138:ASN:C	1:B:138:ASN:HD22	2.13	0.51
1:B:514:SER:HB3	1:B:517:GLN:O	2.10	0.51
1:C:88:VAL:CG1	1:D:94:ILE:N	2.73	0.51
1:C:155:PRO:CD	2:C:801:NAG:H82	2.40	0.51
1:C:347:ARG:HD2	1:C:392:GLY:N	2.25	0.51
1:D:33:LYS:HB3	1:D:83:GLU:CG	2.40	0.51
1:D:336:VAL:O	1:D:426:LEU:HD22	2.10	0.51
1:B:471:TYR:N	1:B:471:TYR:CD1	2.79	0.51
1:C:82:SER:HB2	1:D:74:TYR:HA	1.92	0.51
1:C:142:LEU:O	1:C:196:LEU:HD23	2.11	0.51
1:C:151:LEU:HD12	1:C:190:THR:O	2.11	0.51
1:D:151:LEU:HD12	1:D:190:THR:O	2.11	0.51
1:A:276:GLU:CG	1:A:277:SER:N	2.71	0.51
1:A:297:VAL:CG2	2:A:807:NAG:H62	2.41	0.51
1:A:458:THR:HA	1:A:493:SER:HA	1.93	0.51
1:B:297:VAL:CG2	2:B:807:NAG:H62	2.41	0.51
1:B:336:VAL:O	1:B:426:LEU:HD22	2.10	0.51
1:C:82:SER:OG	1:D:74:TYR:HD2	1.93	0.51
1:C:90:GLU:H	1:D:78:SER:CB	1.92	0.51
1:C:90:GLU:H	1:D:78:SER:HB2	1.74	0.51
1:C:138:ASN:HD22	1:C:138:ASN:C	2.13	0.51
1:A:333:VAL:CB	1:A:334:PRO:CD	2.88	0.51
1:A:428:LEU:O	1:A:428:LEU:HD23	2.11	0.51
1:B:482:THR:CG2	1:B:499:THR:CA	2.87	0.51
1:B:505:GLY:O	1:B:506:ASP:OD1	2.28	0.51
1:C:266:GLY:N	1:C:268:PHE:CE2	2.76	0.51
1:C:505:GLY:O	1:C:506:ASP:OD1	2.28	0.51
1:A:4:ILE:HA	1:B:90:GLU:CA	2.37	0.51
1:A:151:LEU:HD12	1:A:190:THR:O	2.11	0.51
1:A:450:GLN:CG	1:A:533:GLU:OE2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:458:THR:HA	1:B:493:SER:HA	1.93	0.51
1:C:31:PHE:CE2	1:D:73:LYS:C	2.36	0.51
1:C:333:VAL:CB	1:C:334:PRO:CD	2.88	0.51
1:D:268:PHE:C	1:D:285:ALA:HB3	2.30	0.51
1:A:194:THR:HG22	1:A:195:ASP:N	2.25	0.51
1:B:76:LEU:O	1:B:94:ILE:N	2.44	0.51
1:B:352:ILE:HG13	1:B:388:VAL:CB	2.33	0.51
1:B:428:LEU:HD23	1:B:428:LEU:O	2.11	0.51
1:C:25:LYS:NZ	1:C:29:ASP:OD2	2.40	0.51
1:C:31:PHE:CD1	1:D:95:THR:HG21	2.44	0.51
1:C:234:GLU:HB2	1:C:235:ILE:HG22	1.93	0.51
1:C:368:SER:OG	1:C:370:PHE:HE1	1.94	0.51
2:C:809:NAG:H61	2:C:810:NAG:C6	2.39	0.51
1:D:396:ARG:CZ	1:D:432:ASP:HB2	2.41	0.51
2:D:809:NAG:H61	2:D:810:NAG:C6	2.39	0.51
1:A:336:VAL:O	1:A:426:LEU:HD22	2.10	0.51
1:A:458:THR:HG22	1:A:493:SER:CB	2.41	0.51
1:A:471:TYR:CD1	1:A:471:TYR:N	2.79	0.51
1:B:151:LEU:HD12	1:B:190:THR:O	2.11	0.51
1:B:338:ARG:HB3	1:B:339:VAL:HG22	1.92	0.51
1:C:88:VAL:HG12	1:D:94:ILE:CA	2.40	0.51
1:C:241:ARG:NE	1:C:281:ILE:HD12	2.22	0.51
1:D:76:LEU:O	1:D:94:ILE:N	2.44	0.51
1:D:276:GLU:HG3	1:D:277:SER:N	2.25	0.51
1:D:352:ILE:HG13	1:D:388:VAL:CB	2.33	0.51
1:A:513:LEU:C	1:A:514:SER:HG	2.14	0.50
1:B:32:ASN:HB2	1:C:26:SER:O	2.11	0.50
1:C:31:PHE:CA	1:D:73:LYS:NZ	2.72	0.50
1:C:155:PRO:HG2	2:C:801:NAG:C7	2.42	0.50
1:C:458:THR:HA	1:C:493:SER:HA	1.93	0.50
1:D:80:ALA:O	1:D:88:VAL:HG23	2.11	0.50
1:D:194:THR:HG22	1:D:195:ASP:N	2.25	0.50
1:D:458:THR:HA	1:D:493:SER:HA	1.93	0.50
1:B:432:ASP:CB	1:B:464:ILE:CG2	2.90	0.50
1:B:450:GLN:CG	1:B:533:GLU:OE2	2.58	0.50
1:C:221:PHE:HB3	1:C:223:PRO:O	2.10	0.50
1:C:428:LEU:O	1:C:428:LEU:HD23	2.11	0.50
1:D:217:ASN:N	1:D:217:ASN:HD22	2.09	0.50
1:D:458:THR:HG22	1:D:493:SER:CB	2.42	0.50
1:A:80:ALA:O	1:A:88:VAL:HG23	2.11	0.50
1:A:155:PRO:CD	2:A:801:NAG:H82	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:ARG:NE	1:A:281:ILE:HD12	2.22	0.50
1:A:290:PHE:CE2	1:A:293:ARG:CB	2.92	0.50
1:A:419:VAL:HG22	2:A:809:NAG:H81	1.93	0.50
1:C:28:LYS:CD	1:C:88:VAL:HG12	2.38	0.50
1:C:261:ILE:HD11	1:C:264:ASN:HD22	1.77	0.50
1:C:352:ILE:CG1	1:C:388:VAL:HB	2.33	0.50
1:C:450:GLN:CG	1:C:533:GLU:OE2	2.58	0.50
1:D:142:LEU:O	1:D:196:LEU:HD23	2.11	0.50
1:D:297:VAL:CG2	2:D:807:NAG:H62	2.41	0.50
1:A:2:TRP:CD2	1:B:80:ALA:HB3	2.30	0.50
1:A:142:LEU:O	1:A:196:LEU:HD23	2.11	0.50
1:B:227:THR:CG2	2:B:807:NAG:H83	2.32	0.50
1:B:268:PHE:CD2	1:B:268:PHE:N	2.75	0.50
1:B:419:VAL:HG22	2:B:809:NAG:H81	1.93	0.50
1:C:90:GLU:CD	1:D:37:SER:C	2.66	0.50
1:C:297:VAL:CG2	2:C:807:NAG:H62	2.41	0.50
1:C:382:ASN:OD1	1:C:385:ASN:N	2.45	0.50
1:C:396:ARG:CZ	1:C:432:ASP:HB2	2.41	0.50
1:D:382:ASN:OD1	1:D:385:ASN:N	2.45	0.50
1:D:432:ASP:CB	1:D:464:ILE:CG2	2.89	0.50
1:A:11:GLU:OE2	1:A:69:GLU:OE1	2.30	0.50
1:A:76:LEU:O	1:A:94:ILE:N	2.44	0.50
1:B:217:ASN:N	1:B:217:ASN:HD22	2.09	0.50
1:B:327:ASN:OD1	1:B:360:ASP:OD1	2.30	0.50
1:B:458:THR:HG22	1:B:493:SER:CB	2.42	0.50
1:C:290:PHE:CE2	1:C:293:ARG:CB	2.92	0.50
1:C:458:THR:HG22	1:C:493:SER:CB	2.42	0.50
1:D:428:LEU:O	1:D:428:LEU:HD23	2.11	0.50
1:D:471:TYR:CD1	1:D:471:TYR:N	2.79	0.50
1:A:382:ASN:OD1	1:A:385:ASN:N	2.44	0.50
1:B:155:PRO:HG2	2:B:801:NAG:C7	2.42	0.50
1:B:216:ASP:HB2	1:B:217:ASN:ND2	2.27	0.50
1:B:373:ASN:ND2	1:B:374:ASP:OD1	2.45	0.50
1:C:216:ASP:HB2	1:C:217:ASN:ND2	2.27	0.50
1:C:471:TYR:N	1:C:471:TYR:CD1	2.79	0.50
1:C:482:THR:HG22	1:C:482:THR:O	2.09	0.50
1:D:11:GLU:OE2	1:D:69:GLU:OE1	2.30	0.50
1:D:261:ILE:HD11	1:D:264:ASN:HD22	1.77	0.50
1:D:363:GLN:C	1:D:364:ILE:HG23	2.32	0.50
1:D:450:GLN:CB	1:D:533:GLU:HA	2.29	0.50
1:A:1:ASP:HB3	1:B:92:MET:CB	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:THR:HG22	1:A:110:GLN:HG3	1.94	0.50
1:A:155:PRO:HG2	2:A:801:NAG:C7	2.42	0.50
1:A:423:THR:HB	2:A:810:NAG:H83	1.93	0.50
1:B:80:ALA:O	1:B:88:VAL:HG23	2.11	0.50
1:B:363:GLN:C	1:B:364:ILE:HG23	2.32	0.50
1:B:423:THR:HB	2:B:810:NAG:H83	1.93	0.50
1:B:482:THR:HG22	1:B:482:THR:O	2.09	0.50
2:B:809:NAG:H61	2:B:810:NAG:C6	2.39	0.50
1:C:87:PRO:C	1:D:38:ILE:CD1	2.80	0.50
1:C:88:VAL:HG21	1:D:75:VAL:O	2.07	0.50
1:C:496:LEU:HD21	1:C:509:ILE:CD1	2.38	0.50
1:D:155:PRO:HG2	2:D:801:NAG:C7	2.42	0.50
1:D:320:THR:CG2	2:D:807:NAG:C2	2.77	0.50
1:A:347:ARG:HD2	1:A:392:GLY:N	2.25	0.50
1:A:352:ILE:CG1	1:A:388:VAL:HB	2.34	0.50
1:B:290:PHE:CE2	1:B:293:ARG:CB	2.93	0.50
1:B:449:ASP:CB	1:B:532:CYS:H	2.22	0.50
2:B:812:NAG:O7	2:B:812:NAG:C1	2.60	0.50
1:C:87:PRO:N	1:D:43:ALA:CA	2.69	0.50
1:C:402:LYS:C	1:C:403:ASN:O	2.46	0.50
2:C:812:NAG:O7	2:C:812:NAG:C1	2.60	0.50
2:D:807:NAG:O7	2:D:807:NAG:H3	2.11	0.50
1:A:327:ASN:OD1	1:A:360:ASP:OD1	2.30	0.50
1:B:366:LYS:HG2	1:B:367:LEU:H	1.74	0.50
1:B:367:LEU:HB2	1:B:413:THR:O	2.12	0.50
1:C:217:ASN:N	1:C:217:ASN:HD22	2.09	0.50
1:C:432:ASP:CB	1:C:464:ILE:CG2	2.90	0.50
1:D:352:ILE:CG1	1:D:388:VAL:HB	2.33	0.50
1:D:373:ASN:ND2	1:D:374:ASP:OD1	2.45	0.50
1:A:1:ASP:CA	1:B:24:ILE:HG21	2.32	0.49
1:B:11:GLU:OE2	1:B:69:GLU:OE1	2.30	0.49
1:B:347:ARG:HD2	1:B:392:GLY:N	2.25	0.49
1:B:449:ASP:CB	1:B:532:CYS:N	2.74	0.49
1:B:457:LEU:HD23	1:B:494:MET:SD	2.52	0.49
1:C:11:GLU:OE2	1:C:69:GLU:OE1	2.30	0.49
1:C:81:VAL:HB	1:D:43:ALA:H	1.76	0.49
1:C:327:ASN:OD1	1:C:360:ASP:OD1	2.30	0.49
1:C:335:ALA:CB	3:C:811:NDG:C6	2.90	0.49
1:D:367:LEU:HB2	1:D:413:THR:O	2.12	0.49
1:D:457:LEU:HD23	1:D:494:MET:SD	2.52	0.49
1:B:352:ILE:CG1	1:B:388:VAL:HB	2.34	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:154:ASP:O	2:C:801:NAG:C8	2.60	0.49
1:C:373:ASN:ND2	1:C:374:ASP:OD1	2.45	0.49
1:D:154:ASP:O	2:D:801:NAG:C8	2.60	0.49
1:A:10:SER:CA	1:D:30:ARG:CD	2.89	0.49
1:B:33:LYS:HB3	1:B:83:GLU:CG	2.40	0.49
2:B:807:NAG:H3	2:B:807:NAG:O7	2.11	0.49
1:D:273:THR:H	2:D:803:NAG:HN2	1.60	0.49
1:D:335:ALA:CB	3:D:811:NDG:C6	2.90	0.49
1:D:419:VAL:HG22	2:D:809:NAG:H81	1.93	0.49
1:B:68:ARG:HD3	1:B:100:ASP:CA	2.43	0.49
1:B:234:GLU:HB2	1:B:235:ILE:HG22	1.92	0.49
1:B:396:ARG:CZ	1:B:432:ASP:HB2	2.41	0.49
1:C:68:ARG:HD3	1:C:100:ASP:CA	2.43	0.49
1:C:86:SER:N	1:D:74:TYR:CD2	2.73	0.49
1:C:151:LEU:HD12	1:C:151:LEU:H	1.77	0.49
1:C:336:VAL:CG1	1:C:338:ARG:HB2	2.43	0.49
1:C:367:LEU:HB2	1:C:413:THR:O	2.12	0.49
1:D:397:GLU:OE1	1:D:397:GLU:N	2.45	0.49
1:D:402:LYS:C	1:D:403:ASN:O	2.46	0.49
1:D:451:ASN:O	1:D:534:GLY:CA	2.60	0.49
1:A:252:THR:CG2	1:A:253:PRO:HD2	2.43	0.49
1:B:192:GLN:HA	1:B:203:VAL:O	2.13	0.49
1:B:226:TYR:C	1:B:227:THR:HG23	2.33	0.49
1:C:109:THR:HG22	1:C:110:GLN:HG3	1.94	0.49
1:C:423:THR:HB	2:C:810:NAG:H83	1.94	0.49
1:D:68:ARG:HD3	1:D:100:ASP:CA	2.43	0.49
1:D:252:THR:CG2	1:D:253:PRO:HD2	2.43	0.49
1:A:87:PRO:O	1:B:2:TRP:CH2	2.66	0.49
1:A:217:ASN:N	1:A:217:ASN:HD22	2.09	0.49
1:A:272:THR:CG2	1:A:273:THR:N	2.76	0.49
1:B:109:THR:HG22	1:B:110:GLN:CG	2.42	0.49
1:B:224:LYS:HE3	2:B:806:NAG:H82	1.95	0.49
1:B:365:GLN:HA	1:B:416:GLY:HA3	1.95	0.49
1:B:382:ASN:OD1	1:B:385:ASN:N	2.45	0.49
1:D:224:LYS:HE3	2:D:806:NAG:H82	1.95	0.49
1:D:226:TYR:C	1:D:227:THR:HG23	2.33	0.49
1:D:276:GLU:CG	1:D:277:SER:N	2.71	0.49
1:D:336:VAL:CG1	1:D:338:ARG:HB2	2.43	0.49
1:D:423:THR:HB	2:D:810:NAG:H83	1.94	0.49
1:A:226:TYR:C	1:A:227:THR:HG23	2.33	0.49
1:A:373:ASN:ND2	1:A:374:ASP:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:432:ASP:CB	1:A:464:ILE:CG2	2.89	0.49
1:A:457:LEU:HD23	1:A:494:MET:SD	2.52	0.49
1:B:151:LEU:HD12	1:B:151:LEU:H	1.77	0.49
1:B:261:ILE:HD11	1:B:264:ASN:HD22	1.77	0.49
1:B:276:GLU:HG3	1:B:277:SER:N	2.25	0.49
1:C:109:THR:HG22	1:C:110:GLN:CG	2.42	0.49
1:C:226:TYR:C	1:C:227:THR:HG23	2.33	0.49
1:D:310:VAL:HG12	1:D:312:LEU:HG	1.95	0.49
1:A:89:GLU:OE1	1:B:2:TRP:CG	2.62	0.49
1:A:186:GLU:OE1	2:A:801:NAG:C6	2.59	0.49
1:B:154:ASP:CG	1:B:155:PRO:HD2	2.33	0.49
1:B:365:GLN:O	1:B:365:GLN:CG	2.54	0.49
1:C:31:PHE:CD2	1:D:75:VAL:HG23	2.44	0.49
1:C:252:THR:CG2	1:C:253:PRO:HD2	2.43	0.49
1:C:281:ILE:HG23	1:C:281:ILE:O	2.13	0.49
1:C:512:LEU:HD11	1:C:519:ASN:ND2	2.28	0.49
1:D:216:ASP:HB2	1:D:217:ASN:ND2	2.27	0.49
1:A:216:ASP:HB2	1:A:217:ASN:ND2	2.27	0.49
1:A:367:LEU:HD13	1:A:412:VAL:CG2	2.43	0.49
1:B:28:LYS:CD	1:B:88:VAL:HG12	2.38	0.49
1:B:109:THR:HG22	1:B:110:GLN:HG3	1.94	0.49
1:B:335:ALA:CB	3:B:811:NDG:C6	2.90	0.49
1:B:336:VAL:CG1	1:B:338:ARG:HB2	2.43	0.49
1:B:451:ASN:O	1:B:534:GLY:CA	2.60	0.49
1:C:282:LEU:CD2	1:C:283:THR:N	2.76	0.49
1:C:397:GLU:OE1	1:C:397:GLU:N	2.45	0.49
2:D:809:NAG:H62	2:D:810:NAG:O6	2.13	0.49
1:A:224:LYS:HE3	2:A:806:NAG:H82	1.95	0.49
1:A:261:ILE:HD11	1:A:264:ASN:HD22	1.77	0.49
1:A:365:GLN:HA	1:A:416:GLY:HA3	1.95	0.49
1:A:432:ASP:CB	1:A:464:ILE:HG21	2.43	0.49
1:B:87:PRO:HG2	1:C:2:TRP:CD1	2.47	0.49
1:B:154:ASP:O	2:B:801:NAG:C8	2.60	0.49
1:B:273:THR:H	2:B:803:NAG:HN2	1.60	0.49
1:C:310:VAL:HG12	1:C:312:LEU:HG	1.95	0.49
1:C:363:GLN:C	1:C:364:ILE:HG23	2.32	0.49
1:C:419:VAL:HG22	2:C:809:NAG:H81	1.93	0.49
1:C:449:ASP:CB	1:C:532:CYS:H	2.22	0.49
1:D:151:LEU:HD12	1:D:151:LEU:H	1.78	0.49
1:D:186:GLU:OE1	2:D:801:NAG:C6	2.59	0.49
1:D:250:PRO:O	1:D:255:TRP:CE3	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:449:ASP:CB	1:D:532:CYS:H	2.22	0.49
1:A:273:THR:H	2:A:803:NAG:HN2	1.60	0.48
1:B:67:ASP:OD2	1:B:69:GLU:HB2	2.13	0.48
1:B:84:ASN:O	1:C:24:ILE:CB	2.57	0.48
1:B:250:PRO:O	1:B:255:TRP:CE3	2.66	0.48
1:B:278:ASN:HD22	1:B:278:ASN:N	2.05	0.48
1:C:67:ASP:OD2	1:C:69:GLU:HB2	2.13	0.48
1:C:151:LEU:O	1:C:152:LYS:HB2	2.13	0.48
1:C:154:ASP:CG	1:C:155:PRO:HD2	2.33	0.48
1:C:457:LEU:HD23	1:C:494:MET:SD	2.52	0.48
1:D:109:THR:HG22	1:D:110:GLN:HG3	1.94	0.48
1:D:432:ASP:CB	1:D:464:ILE:HG21	2.43	0.48
1:A:28:LYS:CD	1:A:88:VAL:HG12	2.38	0.48
1:A:151:LEU:HD12	1:A:151:LEU:H	1.78	0.48
1:A:310:VAL:HG12	1:A:312:LEU:HG	1.95	0.48
1:A:335:ALA:CB	3:A:811:NDG:C6	2.90	0.48
1:A:522:LEU:CD2	1:A:523:THR:HB	2.26	0.48
2:A:807:NAG:O7	2:A:807:NAG:H3	2.11	0.48
1:B:32:ASN:ND2	1:B:83:GLU:N	2.44	0.48
1:B:150:ILE:HD11	1:B:165:ILE:HB	1.96	0.48
1:B:241:ARG:NE	1:B:281:ILE:HD12	2.22	0.48
1:C:80:ALA:O	1:C:88:VAL:HG23	2.11	0.48
1:C:432:ASP:CB	1:C:464:ILE:HG21	2.43	0.48
1:D:224:LYS:CE	2:D:806:NAG:C8	2.91	0.48
1:D:513:LEU:C	1:D:514:SER:HG	2.16	0.48
1:A:266:GLY:N	1:A:268:PHE:CE2	2.76	0.48
1:B:27:ASN:C	1:B:29:ASP:H	2.15	0.48
1:B:186:GLU:OE1	2:B:801:NAG:C6	2.59	0.48
1:C:192:GLN:HA	1:C:203:VAL:O	2.13	0.48
1:C:250:PRO:O	1:C:255:TRP:CE3	2.66	0.48
1:C:367:LEU:HD13	1:C:412:VAL:CG2	2.43	0.48
1:D:151:LEU:O	1:D:152:LYS:HB2	2.13	0.48
1:D:327:ASN:OD1	1:D:360:ASP:OD1	2.30	0.48
1:D:367:LEU:HD13	1:D:412:VAL:CG2	2.43	0.48
1:D:368:SER:OG	1:D:370:PHE:HE1	1.94	0.48
1:A:8:LYS:CB	1:D:30:ARG:HH21	2.26	0.48
1:A:192:GLN:HA	1:A:203:VAL:O	2.13	0.48
1:A:512:LEU:HD11	1:A:519:ASN:ND2	2.28	0.48
1:B:119:GLU:OE2	1:B:216:ASP:OD1	2.32	0.48
1:B:272:THR:CG2	1:B:273:THR:N	2.76	0.48
1:B:512:LEU:HD11	1:B:519:ASN:ND2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:809:NAG:C6	2:B:810:NAG:C6	2.92	0.48
1:C:32:ASN:HB3	1:D:75:VAL:HG23	1.94	0.48
2:C:807:NAG:H3	2:C:807:NAG:O7	2.11	0.48
1:A:27:ASN:C	1:A:29:ASP:H	2.15	0.48
1:A:41:GLN:HA	1:A:45:ASN:HB2	1.95	0.48
1:A:109:THR:HG22	1:A:110:GLN:CG	2.42	0.48
1:A:154:ASP:CG	1:A:155:PRO:HD2	2.33	0.48
1:A:281:ILE:HG23	1:A:281:ILE:O	2.13	0.48
2:A:809:NAG:H62	2:A:810:NAG:O6	2.13	0.48
1:B:151:LEU:O	1:B:152:LYS:HB2	2.13	0.48
2:B:809:NAG:H62	2:B:810:NAG:O6	2.13	0.48
1:C:81:VAL:CG1	1:D:43:ALA:C	2.80	0.48
1:C:119:GLU:OE2	1:C:216:ASP:OD1	2.32	0.48
2:C:809:NAG:C6	2:C:810:NAG:C6	2.92	0.48
1:D:117:VAL:O	1:D:212:THR:N	2.46	0.48
1:D:154:ASP:CG	1:D:155:PRO:HD2	2.33	0.48
1:D:448:CYS:SG	1:D:537:ILE:CG2	3.01	0.48
1:A:282:LEU:CD2	1:A:283:THR:N	2.76	0.48
1:A:483:TRP:CZ2	1:A:507:TYR:CE1	2.87	0.48
1:B:261:ILE:CD1	1:B:264:ASN:ND2	2.77	0.48
1:B:432:ASP:CB	1:B:464:ILE:HG21	2.43	0.48
1:D:192:GLN:HA	1:D:203:VAL:O	2.13	0.48
1:A:10:SER:H	1:D:30:ARG:HG3	1.75	0.48
1:A:155:PRO:O	1:A:157:GLU:N	2.43	0.48
1:A:336:VAL:CG1	1:A:338:ARG:HB2	2.43	0.48
1:A:363:GLN:C	1:A:364:ILE:HG23	2.32	0.48
1:A:397:GLU:OE1	1:A:397:GLU:N	2.44	0.48
1:B:31:PHE:CG	1:C:30:ARG:N	2.57	0.48
1:B:241:ARG:HE	1:B:281:ILE:CD1	2.24	0.48
1:C:261:ILE:CD1	1:C:264:ASN:ND2	2.77	0.48
1:A:5:PRO:N	1:B:91:PRO:CB	2.75	0.48
1:A:154:ASP:O	2:A:801:NAG:C8	2.60	0.48
1:A:367:LEU:HB2	1:A:413:THR:O	2.12	0.48
1:A:449:ASP:CB	1:A:532:CYS:H	2.22	0.48
1:B:252:THR:CG2	1:B:253:PRO:HD2	2.43	0.48
1:B:281:ILE:HG23	1:B:281:ILE:O	2.13	0.48
1:B:397:GLU:N	1:B:397:GLU:OE1	2.45	0.48
1:C:224:LYS:HE3	2:C:806:NAG:H82	1.95	0.48
1:C:225:THR:HA	1:C:318:THR:O	2.14	0.48
1:A:225:THR:HA	1:A:318:THR:O	2.14	0.48
1:B:224:LYS:CE	2:B:806:NAG:C8	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:225:THR:HA	1:B:318:THR:O	2.14	0.48
1:B:282:LEU:CD2	1:B:283:THR:N	2.76	0.48
1:B:367:LEU:HD13	1:B:412:VAL:CG2	2.43	0.48
1:B:448:CYS:SG	1:B:537:ILE:CG2	3.01	0.48
1:B:537:ILE:CG1	1:B:538:LYS:N	2.77	0.48
1:C:273:THR:H	2:C:803:NAG:HN2	1.60	0.48
1:C:418:SER:O	1:C:419:VAL:HG23	2.14	0.48
1:D:41:GLN:HA	1:D:45:ASN:HB2	1.95	0.48
1:D:119:GLU:OE2	1:D:216:ASP:OD1	2.32	0.48
2:D:812:NAG:O7	2:D:812:NAG:C1	2.60	0.48
1:C:41:GLN:HA	1:C:45:ASN:HB2	1.96	0.48
2:C:809:NAG:H62	2:C:810:NAG:O6	2.13	0.48
1:D:27:ASN:C	1:D:29:ASP:H	2.15	0.48
1:D:150:ILE:HD11	1:D:165:ILE:HB	1.96	0.48
1:D:241:ARG:HE	1:D:281:ILE:CD1	2.24	0.48
1:D:281:ILE:O	1:D:281:ILE:HG23	2.13	0.48
1:D:512:LEU:HD11	1:D:519:ASN:ND2	2.28	0.48
2:A:809:NAG:C6	2:A:810:NAG:C6	2.92	0.47
1:C:227:THR:CG2	2:C:807:NAG:H83	2.32	0.47
1:D:225:THR:HA	1:D:318:THR:O	2.14	0.47
1:D:450:GLN:CG	1:D:533:GLU:OE2	2.58	0.47
1:A:67:ASP:OD2	1:A:69:GLU:HB2	2.13	0.47
1:A:151:LEU:O	1:A:152:LYS:HB2	2.13	0.47
1:A:224:LYS:CE	2:A:806:NAG:C8	2.91	0.47
1:A:268:PHE:CA	1:A:285:ALA:HB3	2.45	0.47
1:A:368:SER:OG	1:A:370:PHE:HE1	1.94	0.47
1:A:482:THR:HG22	1:A:482:THR:O	2.09	0.47
1:B:41:GLN:HA	1:B:45:ASN:HB2	1.95	0.47
1:C:76:LEU:O	1:C:94:ILE:N	2.44	0.47
1:C:150:ILE:HD11	1:C:165:ILE:HB	1.96	0.47
1:D:261:ILE:CD1	1:D:264:ASN:ND2	2.77	0.47
1:D:282:LEU:CD2	1:D:283:THR:N	2.76	0.47
1:D:300:ILE:HD12	1:D:300:ILE:N	2.29	0.47
1:D:365:GLN:HA	1:D:416:GLY:HA3	1.95	0.47
1:D:537:ILE:CG1	1:D:538:LYS:N	2.77	0.47
1:A:33:LYS:HB3	1:A:83:GLU:CG	2.40	0.47
1:A:150:ILE:HD11	1:A:165:ILE:HB	1.96	0.47
1:A:418:SER:O	1:A:419:VAL:HG23	2.14	0.47
1:B:246:ASP:C	1:B:247:LEU:HD12	2.35	0.47
1:C:155:PRO:O	1:C:157:GLU:N	2.43	0.47
1:C:301:THR:CG2	1:C:316:THR:HG23	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:373:ASN:CG	1:C:374:ASP:H	2.18	0.47
1:D:109:THR:HG22	1:D:110:GLN:CG	2.42	0.47
1:D:514:SER:CA	1:D:517:GLN:O	2.62	0.47
1:A:119:GLU:OE2	1:A:216:ASP:OD1	2.32	0.47
1:B:27:ASN:ND2	1:B:28:LYS:N	2.50	0.47
1:B:28:LYS:HG3	1:D:3:VAL:HG21	1.87	0.47
1:B:268:PHE:CA	1:B:285:ALA:HB3	2.45	0.47
1:C:32:ASN:CA	1:D:75:VAL:CG2	2.88	0.47
1:C:50:VAL:HB	1:C:51:PHE:CD1	2.50	0.47
1:C:226:TYR:O	1:C:227:THR:HG23	2.15	0.47
1:C:320:THR:CB	2:C:807:NAG:N2	2.78	0.47
1:C:365:GLN:HA	1:C:416:GLY:HA3	1.95	0.47
1:D:8:LYS:CD	1:D:8:LYS:N	2.51	0.47
1:D:67:ASP:OD2	1:D:69:GLU:HB2	2.13	0.47
1:A:250:PRO:O	1:A:255:TRP:CE3	2.67	0.47
1:A:450:GLN:CB	1:A:533:GLU:HA	2.29	0.47
1:A:514:SER:CA	1:A:517:GLN:O	2.62	0.47
1:A:537:ILE:CG1	1:A:538:LYS:N	2.77	0.47
1:B:300:ILE:HD12	1:B:300:ILE:N	2.30	0.47
1:C:92:MET:HG3	1:D:79:HIS:ND1	2.29	0.47
1:C:224:LYS:CE	2:C:806:NAG:C8	2.91	0.47
1:C:449:ASP:CB	1:C:532:CYS:N	2.74	0.47
1:D:246:ASP:C	1:D:247:LEU:HD12	2.35	0.47
1:D:320:THR:CB	2:D:807:NAG:N2	2.78	0.47
1:A:50:VAL:HB	1:A:51:PHE:CD1	2.50	0.47
1:A:261:ILE:CD1	1:A:264:ASN:ND2	2.77	0.47
1:B:33:LYS:N	1:C:25:LYS:NZ	2.61	0.47
1:B:226:TYR:O	1:B:227:THR:HG23	2.14	0.47
1:B:310:VAL:HG12	1:B:312:LEU:HG	1.95	0.47
1:B:418:SER:O	1:B:419:VAL:HG23	2.14	0.47
1:C:36:TYR:O	1:C:55:TRP:HA	2.15	0.47
1:C:246:ASP:C	1:C:247:LEU:HD12	2.35	0.47
1:D:373:ASN:CG	1:D:374:ASP:H	2.18	0.47
1:A:68:ARG:HD3	1:A:100:ASP:CA	2.43	0.47
2:A:812:NAG:O7	2:A:812:NAG:C1	2.60	0.47
1:B:402:LYS:C	1:B:403:ASN:O	2.46	0.47
1:C:186:GLU:OE1	2:C:801:NAG:C6	2.59	0.47
1:C:440:PRO:HB3	1:C:457:LEU:CD2	2.43	0.47
2:D:809:NAG:C6	2:D:810:NAG:C6	2.92	0.47
1:A:90:GLU:CB	1:B:3:VAL:CG2	2.93	0.47
1:A:246:ASP:C	1:A:247:LEU:HD12	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:320:THR:CB	2:A:807:NAG:N2	2.78	0.47
1:B:50:VAL:HB	1:B:51:PHE:CD1	2.50	0.47
1:C:23:GLN:HB2	1:C:59:TRP:CE3	2.50	0.47
1:C:300:ILE:HD12	1:C:300:ILE:N	2.30	0.47
1:C:537:ILE:CG1	1:C:538:LYS:N	2.77	0.47
1:D:23:GLN:HB2	1:D:59:TRP:CE3	2.50	0.47
1:A:226:TYR:O	1:A:227:THR:HG23	2.15	0.47
1:A:301:THR:CG2	1:A:316:THR:HG23	2.45	0.47
1:B:271:ILE:O	1:B:271:ILE:HG23	2.15	0.47
1:B:373:ASN:CG	1:B:374:ASP:H	2.18	0.47
1:B:539:CYS:HB3	1:B:540:GLN:H	1.46	0.47
1:C:81:VAL:HG12	1:D:43:ALA:HB3	0.53	0.47
1:C:81:VAL:CG1	1:D:43:ALA:N	2.77	0.47
1:D:50:VAL:HB	1:D:51:PHE:CD1	2.50	0.47
1:A:8:LYS:HB3	1:D:30:ARG:HH21	1.79	0.47
1:A:23:GLN:HB2	1:A:59:TRP:CE3	2.50	0.47
1:A:108:PHE:HE1	1:A:203:VAL:HG23	1.80	0.47
1:B:88:VAL:CG1	1:C:27:ASN:OD1	2.60	0.47
1:B:320:THR:CB	2:B:807:NAG:N2	2.78	0.47
1:C:82:SER:OG	1:D:41:GLN:O	2.12	0.47
1:C:272:THR:CG2	1:C:273:THR:N	2.76	0.47
1:C:514:SER:CA	1:C:517:GLN:O	2.62	0.47
1:D:226:TYR:O	1:D:227:THR:HG23	2.15	0.47
1:D:418:SER:O	1:D:419:VAL:HG23	2.14	0.47
1:A:4:ILE:C	1:B:91:PRO:CB	2.82	0.46
1:A:89:GLU:O	1:B:1:ASP:C	2.54	0.46
1:A:270:ASN:OD1	1:A:271:ILE:N	2.49	0.46
1:A:300:ILE:HD12	1:A:300:ILE:N	2.30	0.46
1:A:373:ASN:CG	1:A:374:ASP:H	2.18	0.46
1:D:268:PHE:CA	1:D:285:ALA:HB3	2.45	0.46
1:D:301:THR:CG2	1:D:316:THR:HG23	2.45	0.46
1:D:482:THR:HG22	1:D:499:THR:H	1.70	0.46
1:B:155:PRO:O	1:B:157:GLU:N	2.43	0.46
1:B:310:VAL:HG12	1:B:311:PRO:O	2.15	0.46
1:B:408:VAL:O	1:B:426:LEU:N	2.48	0.46
1:C:3:VAL:HB	1:C:4:ILE:H	1.51	0.46
1:C:88:VAL:N	1:D:38:ILE:HG12	2.30	0.46
1:C:310:VAL:HG12	1:C:311:PRO:O	2.15	0.46
1:D:36:TYR:O	1:D:55:TRP:HA	2.15	0.46
1:D:272:THR:HG23	2:D:803:NAG:HN2	1.81	0.46
1:D:363:GLN:O	1:D:364:ILE:CG2	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:THR:CG2	2:A:807:NAG:H83	2.32	0.46
1:A:271:ILE:HG23	1:A:271:ILE:O	2.15	0.46
1:A:449:ASP:N	1:A:532:CYS:HB3	2.19	0.46
1:B:23:GLN:HB2	1:B:59:TRP:CE3	2.50	0.46
1:B:31:PHE:CD2	1:C:29:ASP:OD2	2.69	0.46
1:B:301:THR:CG2	1:B:316:THR:HG23	2.45	0.46
1:D:194:THR:CG2	1:D:195:ASP:N	2.79	0.46
1:A:194:THR:CG2	1:A:195:ASP:N	2.79	0.46
1:A:262:ARG:HG3	1:A:299:GLN:HB2	1.98	0.46
1:A:511:VAL:N	1:A:523:THR:O	2.46	0.46
1:B:368:SER:OG	1:B:370:PHE:HE1	1.94	0.46
1:A:87:PRO:O	1:B:2:TRP:HZ2	1.83	0.46
1:A:227:THR:N	2:A:812:NAG:H2	2.31	0.46
1:A:506:ASP:OD1	1:A:506:ASP:N	2.49	0.46
1:B:36:TYR:O	1:B:55:TRP:HA	2.15	0.46
1:C:54:GLU:HB2	1:C:57:THR:OG1	2.16	0.46
1:C:81:VAL:H	1:D:45:ASN:ND2	2.10	0.46
1:C:108:PHE:HE1	1:C:203:VAL:HG23	1.80	0.46
1:C:262:ARG:HG3	1:C:299:GLN:HB2	1.97	0.46
1:C:539:CYS:HB3	1:C:540:GLN:H	1.45	0.46
1:D:54:GLU:HB2	1:D:57:THR:OG1	2.16	0.46
1:D:155:PRO:O	1:D:157:GLU:N	2.43	0.46
1:D:506:ASP:OD1	1:D:506:ASP:N	2.49	0.46
1:A:36:TYR:O	1:A:55:TRP:HA	2.15	0.46
1:A:310:VAL:HG12	1:A:311:PRO:O	2.15	0.46
1:A:440:PRO:HB3	1:A:457:LEU:CD2	2.43	0.46
2:A:809:NAG:H61	2:A:810:NAG:C6	2.39	0.46
1:C:459:ILE:HD12	1:C:459:ILE:N	2.31	0.46
1:D:310:VAL:HG12	1:D:311:PRO:O	2.15	0.46
1:D:459:ILE:N	1:D:459:ILE:HD12	2.31	0.46
1:A:8:LYS:HE2	1:D:28:LYS:HG3	1.94	0.46
1:A:54:GLU:HB2	1:A:57:THR:OG1	2.16	0.46
1:A:79:HIS:CA	1:B:1:ASP:N	2.70	0.46
1:A:374:ASP:N	1:A:374:ASP:OD1	2.49	0.46
1:B:117:VAL:O	1:B:212:THR:N	2.46	0.46
1:B:155:PRO:CB	2:B:801:NAG:C8	2.94	0.46
1:B:194:THR:CG2	1:B:195:ASP:N	2.79	0.46
1:B:272:THR:HG23	2:B:803:NAG:HN2	1.80	0.46
1:B:459:ILE:HD12	1:B:459:ILE:N	2.31	0.46
1:C:3:VAL:HB	1:D:87:PRO:HB2	1.97	0.46
1:C:272:THR:HG23	2:C:803:NAG:HN2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:421:THR:HG21	2:C:809:NAG:H61	1.98	0.46
1:D:187:TYR:HE1	1:D:211:ILE:HD11	1.81	0.46
1:D:374:ASP:N	1:D:374:ASP:OD1	2.49	0.46
1:B:109:THR:CB	1:B:131:SER:HB2	2.46	0.46
1:B:461:ASP:HB3	1:B:468:THR:CG2	2.46	0.46
1:B:514:SER:CA	1:B:517:GLN:O	2.62	0.46
1:C:31:PHE:C	1:D:73:LYS:CE	2.83	0.46
1:C:100:ASP:OD1	1:C:101:GLN:N	2.49	0.46
1:C:194:THR:CG2	1:C:195:ASP:N	2.79	0.46
1:C:374:ASP:N	1:C:374:ASP:OD1	2.49	0.46
1:C:415:ASP:CG	1:C:416:GLY:H	2.16	0.46
1:C:448:CYS:SG	1:C:537:ILE:CG2	3.01	0.46
1:D:100:ASP:OD1	1:D:101:GLN:N	2.49	0.46
1:D:339:VAL:HG11	1:D:351:ILE:HG23	1.98	0.46
1:A:363:GLN:O	1:A:364:ILE:CG2	2.63	0.46
1:B:450:GLN:CB	1:B:533:GLU:HA	2.29	0.46
1:B:506:ASP:OD1	1:B:506:ASP:N	2.49	0.46
1:C:90:GLU:N	1:D:78:SER:C	2.30	0.46
1:C:227:THR:N	2:C:812:NAG:H2	2.31	0.46
1:C:241:ARG:HE	1:C:281:ILE:CD1	2.24	0.46
1:C:286:LYS:C	1:C:287:GLY:O	2.55	0.46
1:C:408:VAL:O	1:C:426:LEU:N	2.49	0.46
1:D:270:ASN:OD1	1:D:271:ILE:N	2.49	0.46
1:A:286:LYS:C	1:A:287:GLY:O	2.55	0.46
1:A:374:ASP:C	1:A:375:PRO:O	2.54	0.46
1:A:380:THR:CG2	1:A:381:VAL:N	2.79	0.46
1:A:449:ASP:CB	1:A:532:CYS:N	2.74	0.46
1:B:100:ASP:OD1	1:B:101:GLN:N	2.49	0.46
1:B:227:THR:N	2:B:812:NAG:H2	2.31	0.46
1:B:363:GLN:O	1:B:364:ILE:CG2	2.63	0.46
1:B:380:THR:CG2	1:B:381:VAL:N	2.79	0.46
1:C:1:ASP:CA	1:D:28:LYS:CD	2.88	0.46
1:C:276:GLU:HG3	1:C:277:SER:N	2.25	0.46
2:C:805:NAG:C5	2:C:806:NAG:H83	2.46	0.46
1:D:109:THR:CB	1:D:131:SER:HB2	2.46	0.46
1:D:290:PHE:CE2	1:D:293:ARG:CB	2.92	0.46
1:D:524:VAL:HG21	2:D:904:NAG:C8	2.44	0.46
1:A:8:LYS:CD	1:A:8:LYS:N	2.51	0.45
1:B:30:ARG:NH1	1:C:30:ARG:CB	2.78	0.45
1:B:262:ARG:HG3	1:B:299:GLN:HB2	1.98	0.45
1:B:374:ASP:N	1:B:374:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:473:VAL:CG2	1:B:487:LEU:HD21	2.47	0.45
1:C:32:ASN:CA	1:D:75:VAL:HG23	2.44	0.45
1:C:109:THR:CB	1:C:131:SER:HB2	2.46	0.45
1:C:227:THR:HG22	1:C:320:THR:HB	1.98	0.45
1:C:271:ILE:HG23	1:C:271:ILE:O	2.15	0.45
1:C:451:ASN:O	1:C:534:GLY:CA	2.60	0.45
1:D:227:THR:HG22	1:D:320:THR:HB	1.99	0.45
1:D:415:ASP:CG	1:D:416:GLY:H	2.16	0.45
1:D:461:ASP:HB3	1:D:468:THR:CG2	2.46	0.45
2:D:805:NAG:C5	2:D:806:NAG:H83	2.46	0.45
1:A:117:VAL:O	1:A:212:THR:N	2.46	0.45
1:A:155:PRO:CB	2:A:801:NAG:C8	2.94	0.45
1:A:241:ARG:HE	1:A:281:ILE:CD1	2.24	0.45
1:A:276:GLU:HG3	1:A:277:SER:N	2.25	0.45
1:A:298:LEU:N	1:A:298:LEU:CD2	2.75	0.45
1:A:312:LEU:O	3:A:804:NDG:H8C1	2.17	0.45
1:A:408:VAL:O	1:A:426:LEU:N	2.48	0.45
1:A:459:ILE:N	1:A:459:ILE:HD12	2.31	0.45
1:A:519:ASN:CG	1:A:519:ASN:O	2.55	0.45
1:B:227:THR:HG22	1:B:320:THR:HB	1.98	0.45
1:B:381:VAL:HA	1:B:387:ILE:O	2.17	0.45
1:B:468:THR:C	1:B:469:TYR:O	2.54	0.45
1:C:1:ASP:O	1:D:28:LYS:HD3	2.16	0.45
1:C:28:LYS:CG	1:D:93:GLU:HG2	2.11	0.45
1:C:268:PHE:CA	1:C:285:ALA:HB3	2.45	0.45
1:C:371:ILE:HD12	1:C:371:ILE:HA	1.65	0.45
1:C:450:GLN:CB	1:C:533:GLU:OE2	2.64	0.45
1:C:514:SER:HG	1:C:519:ASN:HA	1.81	0.45
1:D:108:PHE:HE1	1:D:203:VAL:HG23	1.80	0.45
1:D:271:ILE:HG23	1:D:271:ILE:O	2.15	0.45
1:D:408:VAL:O	1:D:426:LEU:N	2.49	0.45
1:A:421:THR:HG21	2:A:809:NAG:H61	1.98	0.45
1:B:85:GLY:N	1:C:25:LYS:O	2.47	0.45
1:B:261:ILE:HD11	1:B:264:ASN:ND2	2.32	0.45
1:C:506:ASP:OD1	1:C:506:ASP:N	2.49	0.45
1:D:152:LYS:O	1:D:189:LEU:HA	2.17	0.45
1:D:473:VAL:CG2	1:D:487:LEU:HD21	2.47	0.45
1:A:381:VAL:HA	1:A:387:ILE:O	2.17	0.45
1:B:8:LYS:CD	1:B:8:LYS:N	2.51	0.45
1:B:187:TYR:HE1	1:B:211:ILE:HD11	1.81	0.45
1:B:270:ASN:OD1	1:B:271:ILE:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:286:LYS:C	1:B:287:GLY:O	2.55	0.45
1:B:450:GLN:CB	1:B:533:GLU:OE2	2.64	0.45
1:C:1:ASP:C	1:D:28:LYS:HD3	2.37	0.45
1:C:187:TYR:HE1	1:C:211:ILE:HD11	1.81	0.45
1:D:381:VAL:HA	1:D:387:ILE:O	2.17	0.45
1:D:440:PRO:HB3	1:D:457:LEU:CD2	2.43	0.45
1:A:187:TYR:HE1	1:A:211:ILE:HD11	1.81	0.45
1:A:336:VAL:HG11	1:A:338:ARG:HD2	1.99	0.45
1:A:380:THR:HG22	1:A:381:VAL:N	2.32	0.45
1:B:152:LYS:O	1:B:189:LEU:HA	2.17	0.45
1:B:421:THR:HG21	2:B:809:NAG:H61	1.98	0.45
1:B:519:ASN:O	1:B:519:ASN:CG	2.55	0.45
1:B:524:VAL:HG21	2:B:904:NAG:C8	2.44	0.45
1:C:93:GLU:CB	1:D:81:VAL:CG1	2.79	0.45
1:C:363:GLN:O	1:C:364:ILE:CG2	2.63	0.45
1:D:266:GLY:N	1:D:268:PHE:CE2	2.76	0.45
1:D:421:THR:HG21	2:D:809:NAG:H61	1.98	0.45
1:A:100:ASP:OD1	1:A:101:GLN:N	2.49	0.45
1:A:261:ILE:HD11	1:A:264:ASN:ND2	2.32	0.45
1:A:339:VAL:HG11	1:A:351:ILE:HG23	1.98	0.45
1:A:367:LEU:H	1:A:367:LEU:HG	1.41	0.45
1:A:451:ASN:O	1:A:534:GLY:CA	2.60	0.45
1:A:461:ASP:HB3	1:A:468:THR:CG2	2.46	0.45
1:A:481:LEU:HD12	1:A:481:LEU:HA	1.50	0.45
2:A:805:NAG:C5	2:A:806:NAG:H83	2.46	0.45
1:B:371:ILE:HD12	1:B:371:ILE:HA	1.65	0.45
1:B:469:TYR:CD2	1:B:470:PRO:N	2.85	0.45
1:C:339:VAL:HG11	1:C:351:ILE:HG23	1.98	0.45
1:C:381:VAL:HA	1:C:387:ILE:O	2.17	0.45
1:C:449:ASP:N	1:C:532:CYS:HB3	2.19	0.45
1:C:461:ASP:HB3	1:C:468:THR:CG2	2.46	0.45
1:D:449:ASP:CB	1:D:532:CYS:N	2.74	0.45
1:A:426:LEU:HD13	1:A:426:LEU:C	2.37	0.45
1:B:187:TYR:CE1	1:B:211:ILE:HD11	2.52	0.45
1:B:482:THR:O	1:B:483:TRP:CD2	2.70	0.45
2:B:805:NAG:H62	2:B:806:NAG:N2	2.31	0.45
1:C:298:LEU:N	1:C:298:LEU:CD2	2.75	0.45
1:C:371:ILE:HD13	1:C:381:VAL:HG11	1.95	0.45
1:D:336:VAL:HG11	1:D:338:ARG:HD2	1.99	0.45
1:D:450:GLN:CB	1:D:533:GLU:OE2	2.64	0.45
1:A:272:THR:HG23	2:A:803:NAG:HN2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:448:CYS:SG	1:A:537:ILE:CG2	3.01	0.45
1:A:482:THR:O	1:A:483:TRP:CD2	2.70	0.45
1:B:54:GLU:HB2	1:B:57:THR:OG1	2.16	0.45
1:B:128:MET:HB3	1:B:129:ALA:H	1.62	0.45
1:B:134:ASP:HB2	1:B:146:LEU:HD11	1.99	0.45
1:B:162:LEU:HB2	1:B:163:PHE:CE1	2.52	0.45
1:B:312:LEU:O	3:B:804:NDG:H8C1	2.17	0.45
1:C:117:VAL:O	1:C:212:THR:N	2.46	0.45
1:C:187:TYR:CE1	1:C:211:ILE:HD11	2.52	0.45
1:C:336:VAL:HG11	1:C:338:ARG:HD2	1.99	0.45
1:C:426:LEU:HD13	1:C:426:LEU:C	2.37	0.45
1:D:109:THR:HB	1:D:131:SER:HB2	1.99	0.45
1:D:162:LEU:HB2	1:D:163:PHE:CE1	2.52	0.45
1:A:1:ASP:OD1	1:B:24:ILE:HB	2.17	0.45
1:A:232:GLU:HA	1:A:288:LEU:HD12	1.99	0.45
1:A:450:GLN:CB	1:A:533:GLU:OE2	2.64	0.45
1:A:469:TYR:CE2	1:A:470:PRO:HB2	2.52	0.45
1:B:380:THR:HG22	1:B:381:VAL:N	2.32	0.45
1:C:78:SER:O	1:D:39:THR:HG21	2.17	0.45
1:D:262:ARG:HG3	1:D:299:GLN:HB2	1.97	0.45
1:D:482:THR:O	1:D:483:TRP:CD2	2.70	0.45
1:A:162:LEU:HB2	1:A:163:PHE:CE1	2.52	0.45
1:A:473:VAL:CG2	1:A:487:LEU:HD21	2.47	0.45
1:A:485:ALA:O	1:A:486:GLU:OE1	2.35	0.45
1:B:108:PHE:HE1	1:B:203:VAL:HG23	1.80	0.45
1:C:31:PHE:O	1:D:73:LYS:NZ	2.47	0.45
1:C:134:ASP:HB2	1:C:146:LEU:HD11	1.99	0.45
1:C:270:ASN:OD1	1:C:271:ILE:N	2.49	0.45
1:C:380:THR:HG22	1:C:381:VAL:N	2.32	0.45
1:D:187:TYR:CE1	1:D:211:ILE:HD11	2.52	0.45
1:D:286:LYS:C	1:D:287:GLY:O	2.55	0.45
1:D:469:TYR:CD2	1:D:470:PRO:N	2.85	0.45
1:D:485:ALA:O	1:D:486:GLU:OE1	2.35	0.45
1:A:36:TYR:CE2	1:D:2:TRP:CH2	3.00	0.44
1:A:109:THR:CB	1:A:131:SER:HB2	2.46	0.44
1:B:441:SER:CB	1:B:442:PRO:HD3	2.47	0.44
1:C:3:VAL:CB	1:D:87:PRO:HB2	2.47	0.44
1:C:79:HIS:HB3	1:D:39:THR:HB	1.96	0.44
1:C:109:THR:HB	1:C:131:SER:HB2	1.99	0.44
1:D:227:THR:N	2:D:812:NAG:H2	2.31	0.44
1:B:30:ARG:CZ	1:C:30:ARG:HB3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:31:PHE:CE1	1:D:75:VAL:HG12	2.38	0.44
1:B:426:LEU:HD13	1:B:426:LEU:C	2.37	0.44
1:C:83:GLU:N	1:D:41:GLN:CD	2.66	0.44
1:C:482:THR:O	1:C:483:TRP:CD2	2.70	0.44
1:A:109:THR:HB	1:A:131:SER:HB2	1.99	0.44
1:A:134:ASP:HB2	1:A:146:LEU:HD11	1.99	0.44
1:A:415:ASP:CG	1:A:416:GLY:H	2.16	0.44
1:B:339:VAL:HG11	1:B:351:ILE:HG23	1.98	0.44
1:C:469:TYR:CE2	1:C:470:PRO:HB2	2.52	0.44
1:C:473:VAL:CG2	1:C:487:LEU:HD21	2.47	0.44
1:D:312:LEU:O	3:D:804:NDG:H8C1	2.17	0.44
1:A:67:ASP:OD1	1:A:69:GLU:HB2	2.18	0.44
1:A:469:TYR:CD2	1:A:470:PRO:N	2.85	0.44
1:B:336:VAL:HG11	1:B:338:ARG:HD2	1.99	0.44
1:B:439:VAL:HA	1:B:440:PRO:HD3	1.81	0.44
1:C:461:ASP:HB3	1:C:468:THR:HG22	2.00	0.44
1:C:468:THR:C	1:C:469:TYR:O	2.54	0.44
1:D:519:ASN:CG	1:D:519:ASN:O	2.55	0.44
1:A:86:SER:HA	1:A:87:PRO:HD3	1.83	0.44
1:A:152:LYS:O	1:A:189:LEU:HA	2.17	0.44
1:A:224:LYS:HE3	2:A:806:NAG:C8	2.48	0.44
1:B:224:LYS:HE3	2:B:806:NAG:C8	2.48	0.44
1:B:442:PRO:HD2	1:B:457:LEU:HD12	2.00	0.44
2:B:805:NAG:C5	2:B:806:NAG:H83	2.46	0.44
1:C:84:ASN:C	1:D:74:TYR:HE2	2.07	0.44
1:C:261:ILE:HD11	1:C:264:ASN:ND2	2.32	0.44
1:D:28:LYS:CD	1:D:88:VAL:HG12	2.38	0.44
1:D:374:ASP:C	1:D:375:PRO:O	2.54	0.44
1:D:511:VAL:N	1:D:523:THR:O	2.46	0.44
1:A:22:VAL:CG2	1:A:23:GLN:N	2.81	0.44
1:A:252:THR:HA	1:A:253:PRO:HD3	1.81	0.44
1:A:441:SER:CB	1:A:442:PRO:HD3	2.47	0.44
1:B:31:PHE:O	1:C:29:ASP:C	2.56	0.44
1:B:485:ALA:O	1:B:486:GLU:OE1	2.35	0.44
1:C:85:GLY:CA	1:D:47:PRO:HD2	2.48	0.44
1:D:67:ASP:OD1	1:D:69:GLU:HB2	2.18	0.44
1:D:224:LYS:HE3	2:D:806:NAG:C8	2.48	0.44
1:D:232:GLU:HA	1:D:288:LEU:HD12	1.99	0.44
1:D:380:THR:CG2	1:D:381:VAL:N	2.79	0.44
1:B:194:THR:HG23	1:B:201:LEU:O	2.18	0.44
1:B:290:PHE:CD2	1:B:293:ARG:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:320:THR:CG2	2:B:807:NAG:C2	2.76	0.44
1:C:22:VAL:CG2	1:C:23:GLN:N	2.81	0.44
1:C:67:ASP:OD1	1:C:69:GLU:HB2	2.18	0.44
1:C:152:LYS:O	1:C:189:LEU:HA	2.17	0.44
1:C:220:ILE:O	1:C:220:ILE:HG22	2.18	0.44
1:D:290:PHE:CD2	1:D:293:ARG:O	2.71	0.44
1:D:421:THR:CG2	1:D:422:GLY:N	2.81	0.44
1:A:227:THR:HG22	1:A:320:THR:HB	1.98	0.44
1:A:442:PRO:HD2	1:A:457:LEU:HD12	2.00	0.44
1:A:524:VAL:HG21	2:A:904:NAG:C8	2.44	0.44
1:C:88:VAL:HA	1:D:38:ILE:HD11	1.99	0.44
1:C:380:THR:CG2	1:C:381:VAL:N	2.79	0.44
1:D:155:PRO:CB	2:D:801:NAG:C8	2.94	0.44
1:D:261:ILE:HD11	1:D:264:ASN:ND2	2.32	0.44
1:D:435:ASP:HB2	1:D:436:ASN:H	1.58	0.44
1:A:3:VAL:HG21	1:B:77:SER:HA	2.00	0.44
1:A:92:MET:HB2	1:B:1:ASP:CB	2.48	0.44
1:A:290:PHE:CD2	1:A:293:ARG:O	2.71	0.44
1:A:540:GLN:O	1:A:540:GLN:NE2	2.47	0.44
1:B:22:VAL:CG2	1:B:23:GLN:N	2.81	0.44
1:B:368:SER:CB	1:B:370:PHE:HE1	2.31	0.44
1:B:469:TYR:CE2	1:B:470:PRO:HB2	2.52	0.44
1:C:32:ASN:HD22	1:C:83:GLU:N	2.13	0.44
1:C:151:LEU:HD12	1:C:151:LEU:N	2.33	0.44
1:C:162:LEU:HB2	1:C:163:PHE:CE1	2.52	0.44
1:A:419:VAL:HG13	1:A:420:GLY:N	2.33	0.43
1:B:3:VAL:HB	1:B:4:ILE:H	1.51	0.43
1:B:109:THR:HB	1:B:131:SER:HB2	1.99	0.43
1:B:151:LEU:HD12	1:B:151:LEU:N	2.33	0.43
1:B:421:THR:CG2	1:B:422:GLY:N	2.81	0.43
1:B:522:LEU:HA	1:B:522:LEU:HD23	1.36	0.43
1:C:374:ASP:C	1:C:375:PRO:O	2.54	0.43
1:C:469:TYR:CD2	1:C:470:PRO:N	2.85	0.43
1:C:485:ALA:O	1:C:486:GLU:OE1	2.35	0.43
1:D:468:THR:C	1:D:469:TYR:O	2.54	0.43
1:D:469:TYR:CE2	1:D:470:PRO:HB2	2.52	0.43
1:A:8:LYS:CB	1:D:30:ARG:HE	2.30	0.43
1:A:92:MET:CG	1:B:3:VAL:HG12	2.47	0.43
1:A:421:THR:CG2	1:A:422:GLY:N	2.81	0.43
1:A:468:THR:C	1:A:469:TYR:O	2.54	0.43
1:B:374:ASP:C	1:B:375:PRO:O	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:419:VAL:HG13	1:B:420:GLY:N	2.33	0.43
1:C:312:LEU:O	3:C:804:NDG:H8C1	2.17	0.43
1:D:220:ILE:O	1:D:220:ILE:HG22	2.18	0.43
2:D:805:NAG:H62	2:D:806:NAG:N2	2.31	0.43
1:A:299:GLN:CG	1:A:318:THR:HG23	2.42	0.43
1:A:335:ALA:HB3	3:A:811:NDG:O6	2.15	0.43
1:B:232:GLU:HA	1:B:288:LEU:HD12	2.00	0.43
1:B:450:GLN:HG3	1:B:532:CYS:O	2.10	0.43
1:C:89:GLU:HB3	1:D:78:SER:O	2.01	0.43
1:C:232:GLU:HA	1:C:288:LEU:HD12	1.99	0.43
1:C:511:VAL:N	1:C:523:THR:O	2.46	0.43
1:D:426:LEU:HD13	1:D:426:LEU:C	2.37	0.43
1:D:441:SER:CB	1:D:442:PRO:HD3	2.47	0.43
1:A:194:THR:HG23	1:A:201:LEU:O	2.18	0.43
1:A:247:LEU:HD12	1:A:247:LEU:N	2.33	0.43
1:B:252:THR:HA	1:B:253:PRO:HD3	1.81	0.43
1:B:297:VAL:HG21	2:B:807:NAG:H62	2.01	0.43
1:C:92:MET:CE	1:D:91:PRO:CG	2.97	0.43
1:C:128:MET:HB3	1:C:129:ALA:H	1.62	0.43
1:C:290:PHE:CD2	1:C:293:ARG:O	2.71	0.43
1:C:441:SER:CB	1:C:442:PRO:HD3	2.47	0.43
1:D:128:MET:HB3	1:D:129:ALA:H	1.62	0.43
1:A:187:TYR:CE1	1:A:211:ILE:HD11	2.52	0.43
1:A:368:SER:CB	1:A:370:PHE:HE1	2.31	0.43
1:C:224:LYS:HE3	2:C:806:NAG:C8	2.48	0.43
1:C:442:PRO:HD2	1:C:457:LEU:HD12	2.00	0.43
1:C:518:ASN:C	1:C:520:PRO:CD	2.87	0.43
1:D:247:LEU:HD12	1:D:247:LEU:N	2.33	0.43
1:D:380:THR:HG22	1:D:381:VAL:N	2.32	0.43
1:D:419:VAL:HG13	1:D:420:GLY:N	2.33	0.43
1:D:461:ASP:HB3	1:D:468:THR:HG22	2.00	0.43
1:A:4:ILE:HB	1:B:90:GLU:HB3	1.48	0.43
1:B:354:LEU:HD12	1:B:386:GLY:O	2.18	0.43
1:C:31:PHE:C	1:D:75:VAL:CG2	2.79	0.43
1:C:421:THR:CG2	1:C:422:GLY:N	2.81	0.43
1:D:3:VAL:HB	1:D:4:ILE:H	1.51	0.43
1:D:194:THR:HG23	1:D:201:LEU:O	2.18	0.43
1:D:249:MET:HA	1:D:250:PRO:HD3	1.85	0.43
1:D:335:ALA:HB3	3:D:811:NDG:O6	2.15	0.43
1:D:368:SER:CB	1:D:370:PHE:HE1	2.31	0.43
1:D:442:PRO:HD2	1:D:457:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:32:ASN:HA	1:C:29:ASP:CG	2.36	0.43
1:B:83:GLU:HB3	1:C:25:LYS:HB2	1.45	0.43
1:B:333:VAL:HG23	1:B:334:PRO:HD3	2.01	0.43
1:B:540:GLN:O	1:B:540:GLN:NE2	2.47	0.43
1:C:155:PRO:CB	2:C:801:NAG:C8	2.94	0.43
1:D:134:ASP:HB2	1:D:146:LEU:HD11	1.99	0.43
1:D:450:GLN:HG3	1:D:532:CYS:O	2.10	0.43
1:A:1:ASP:CA	1:B:24:ILE:CD1	2.95	0.43
1:A:9:VAL:O	1:D:30:ARG:CD	2.62	0.43
1:A:32:ASN:HD22	1:A:83:GLU:N	2.13	0.43
1:A:79:HIS:CA	1:B:1:ASP:H1	2.30	0.43
1:A:195:ASP:HB3	1:A:196:LEU:HG	2.01	0.43
1:C:154:ASP:HB3	2:C:801:NAG:C7	2.48	0.43
1:C:194:THR:HG23	1:C:201:LEU:O	2.18	0.43
1:C:344:ASP:CG	1:C:344:ASP:O	2.57	0.43
1:D:22:VAL:CG2	1:D:23:GLN:N	2.81	0.43
1:D:32:ASN:HD22	1:D:83:GLU:N	2.13	0.43
1:D:175:ILE:CG2	1:D:176:GLY:N	2.82	0.43
1:A:297:VAL:HG21	2:A:807:NAG:H62	2.01	0.43
1:A:333:VAL:HG23	1:A:334:PRO:HD3	2.01	0.43
1:A:354:LEU:HD12	1:A:386:GLY:O	2.18	0.43
1:B:67:ASP:OD1	1:B:69:GLU:HB2	2.18	0.43
1:B:247:LEU:HD12	1:B:247:LEU:N	2.33	0.43
1:C:40:GLY:O	1:C:45:ASN:HB2	2.19	0.43
1:C:354:LEU:HD12	1:C:386:GLY:O	2.18	0.43
1:C:368:SER:CB	1:C:370:PHE:HE1	2.31	0.43
1:D:367:LEU:H	1:D:367:LEU:HG	1.41	0.43
1:D:371:ILE:HG13	1:D:410:MET:SD	2.59	0.43
1:A:24:ILE:O	1:D:2:TRP:CH2	2.58	0.43
1:A:518:ASN:C	1:A:520:PRO:CD	2.87	0.43
1:B:371:ILE:HG13	1:B:410:MET:SD	2.59	0.43
1:C:519:ASN:CG	1:C:519:ASN:O	2.55	0.43
1:D:138:ASN:C	1:D:138:ASN:ND2	2.73	0.43
1:D:344:ASP:O	1:D:344:ASP:CG	2.57	0.43
1:D:354:LEU:HD12	1:D:386:GLY:O	2.18	0.43
1:A:188:THR:H	2:A:801:NAG:H83	1.84	0.42
1:A:344:ASP:O	1:A:344:ASP:CG	2.57	0.42
1:A:409:ILE:HD13	3:A:811:NDG:H8C3	2.01	0.42
1:B:220:ILE:O	1:B:220:ILE:HG22	2.18	0.42
2:B:810:NAG:O7	2:B:810:NAG:C1	2.67	0.42
1:C:333:VAL:HG23	1:C:334:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:524:VAL:HG21	2:C:904:NAG:C8	2.44	0.42
1:D:298:LEU:N	1:D:298:LEU:CD2	2.75	0.42
1:D:339:VAL:HG21	1:D:351:ILE:HG22	2.01	0.42
1:A:90:GLU:O	1:A:91:PRO:O	2.37	0.42
1:A:230:VAL:O	1:A:323:VAL:HA	2.20	0.42
1:A:461:ASP:HB3	1:A:468:THR:HG22	2.00	0.42
1:B:435:ASP:HB2	1:B:436:ASN:H	1.58	0.42
1:B:461:ASP:HB3	1:B:468:THR:HG22	2.00	0.42
1:C:261:ILE:H	1:C:261:ILE:HD13	1.85	0.42
1:C:490:LYS:O	1:C:490:LYS:CG	2.67	0.42
1:D:518:ASN:C	1:D:520:PRO:CD	2.87	0.42
1:A:371:ILE:HG13	1:A:410:MET:SD	2.59	0.42
1:B:175:ILE:CG2	1:B:176:GLY:N	2.82	0.42
1:C:4:ILE:HA	1:C:5:PRO:HD3	1.72	0.42
1:C:450:GLN:HG3	1:C:532:CYS:O	2.10	0.42
1:A:92:MET:HG2	1:B:3:VAL:HG12	2.01	0.42
1:A:151:LEU:HD12	1:A:151:LEU:N	2.33	0.42
1:A:347:ARG:HD2	1:A:392:GLY:CA	2.50	0.42
1:B:40:GLY:O	1:B:45:ASN:HB2	2.19	0.42
1:B:409:ILE:HD13	3:B:811:NDG:H8C3	2.01	0.42
1:C:5:PRO:HA	1:C:6:PRO:HD3	1.85	0.42
1:C:88:VAL:O	1:D:94:ILE:CD1	2.50	0.42
1:C:247:LEU:HD12	1:C:247:LEU:N	2.33	0.42
1:C:371:ILE:HA	1:C:410:MET:HB3	2.02	0.42
1:C:515:ASP:OD1	1:C:516:ALA:N	2.53	0.42
1:D:333:VAL:HG23	1:D:334:PRO:HD3	2.01	0.42
1:D:409:ILE:HD13	3:D:811:NDG:H8C3	2.01	0.42
1:A:5:PRO:HA	1:A:6:PRO:HD3	1.85	0.42
1:A:175:ILE:CG2	1:A:176:GLY:N	2.82	0.42
1:A:239:VAL:HG11	1:A:282:LEU:HD22	2.02	0.42
1:A:250:PRO:HA	1:A:255:TRP:CG	2.55	0.42
1:C:88:VAL:N	1:D:38:ILE:CG1	2.82	0.42
1:C:339:VAL:HG21	1:C:351:ILE:HG22	2.01	0.42
1:D:347:ARG:HD2	1:D:392:GLY:CA	2.49	0.42
1:D:448:CYS:C	1:D:452:PRO:HG3	2.40	0.42
1:D:482:THR:HG23	1:D:499:THR:HG23	1.88	0.42
1:A:138:ASN:C	1:A:138:ASN:ND2	2.73	0.42
1:A:220:ILE:O	1:A:220:ILE:HG22	2.18	0.42
2:A:805:NAG:H62	2:A:806:NAG:N2	2.31	0.42
1:B:339:VAL:HG21	1:B:351:ILE:HG22	2.01	0.42
1:B:469:TYR:CE2	1:B:470:PRO:HD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:89:GLU:CD	1:D:92:MET:H	2.22	0.42
1:C:252:THR:HA	1:C:253:PRO:HD3	1.81	0.42
1:D:195:ASP:HB3	1:D:196:LEU:HG	2.01	0.42
1:D:261:ILE:HD13	1:D:261:ILE:H	1.85	0.42
1:D:264:ASN:HB3	1:D:267:GLY:HA2	2.01	0.42
1:D:469:TYR:CE2	1:D:470:PRO:HD2	2.54	0.42
1:A:505:GLY:H	1:A:529:VAL:HB	1.85	0.42
1:B:502:LEU:HA	1:B:502:LEU:HD23	1.82	0.42
1:B:518:ASN:C	1:B:520:PRO:CD	2.87	0.42
1:C:67:ASP:CG	1:C:69:GLU:HB2	2.40	0.42
1:C:83:GLU:CA	1:D:41:GLN:OE1	2.59	0.42
1:C:175:ILE:CG2	1:C:176:GLY:N	2.82	0.42
1:C:367:LEU:H	1:C:367:LEU:HG	1.41	0.42
1:D:7:ILE:O	1:D:96:ILE:HG23	2.20	0.42
1:D:188:THR:H	2:D:801:NAG:H83	1.84	0.42
1:D:250:PRO:HA	1:D:255:TRP:CG	2.54	0.42
1:D:297:VAL:HG21	2:D:807:NAG:H62	2.01	0.42
1:A:108:PHE:HA	1:A:132:ALA:CB	2.50	0.42
1:A:264:ASN:HB3	1:A:267:GLY:HA2	2.01	0.42
1:B:84:ASN:O	1:C:24:ILE:CA	2.68	0.42
1:B:87:PRO:HG2	1:D:90:GLU:H	1.82	0.42
1:B:87:PRO:CG	1:C:2:TRP:CB	2.94	0.42
1:B:108:PHE:HA	1:B:132:ALA:CB	2.50	0.42
1:B:188:THR:H	2:B:801:NAG:H83	1.84	0.42
1:B:230:VAL:O	1:B:323:VAL:HA	2.20	0.42
1:B:298:LEU:N	1:B:298:LEU:CD2	2.75	0.42
1:B:344:ASP:CG	1:B:344:ASP:O	2.57	0.42
1:C:239:VAL:HG11	1:C:282:LEU:HD22	2.02	0.42
1:C:371:ILE:HG13	1:C:410:MET:SD	2.59	0.42
1:D:67:ASP:CG	1:D:69:GLU:HB2	2.40	0.42
1:D:151:LEU:HD12	1:D:151:LEU:N	2.33	0.42
1:D:483:TRP:CZ2	1:D:507:TYR:CE1	2.87	0.42
1:B:67:ASP:CG	1:B:69:GLU:HB2	2.40	0.42
1:B:87:PRO:CG	1:C:2:TRP:CD1	3.03	0.42
1:C:7:ILE:O	1:C:96:ILE:HG23	2.20	0.42
1:C:138:ASN:C	1:C:138:ASN:ND2	2.73	0.42
1:C:188:THR:H	2:C:801:NAG:H83	1.84	0.42
1:C:347:ARG:HD2	1:C:392:GLY:CA	2.50	0.42
1:C:409:ILE:HD13	3:C:811:NDG:H8C3	2.01	0.42
1:D:231:PRO:O	1:D:288:LEU:HD12	2.20	0.42
1:B:31:PHE:CE2	1:C:27:ASN:N	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:ASP:HB3	1:B:196:LEU:HG	2.01	0.42
1:B:264:ASN:HB3	1:B:267:GLY:HA2	2.01	0.42
1:B:335:ALA:HB3	3:B:811:NDG:O6	2.15	0.42
1:B:347:ARG:HD2	1:B:392:GLY:CA	2.50	0.42
1:B:515:ASP:OD1	1:B:516:ALA:N	2.52	0.42
1:C:8:LYS:CD	1:C:8:LYS:N	2.51	0.42
1:C:23:GLN:HB2	1:C:59:TRP:CD2	2.55	0.42
1:C:90:GLU:HG2	1:D:36:TYR:HA	1.43	0.42
1:C:237:PHE:N	1:C:284:THR:OG1	2.42	0.42
1:C:366:LYS:HG2	1:C:367:LEU:H	1.74	0.42
1:C:419:VAL:HG13	1:C:420:GLY:N	2.33	0.42
1:D:490:LYS:O	1:D:490:LYS:CG	2.67	0.42
1:A:5:PRO:HG3	1:B:91:PRO:HG2	1.22	0.41
1:A:23:GLN:HB2	1:A:59:TRP:CD2	2.55	0.41
1:A:212:THR:CG2	1:A:213:ASP:H	2.32	0.41
1:B:7:ILE:O	1:B:96:ILE:HG23	2.20	0.41
1:B:81:VAL:HG12	1:D:90:GLU:HG2	2.02	0.41
1:C:250:PRO:HA	1:C:255:TRP:CG	2.54	0.41
1:D:522:LEU:HB3	1:D:523:THR:H	1.57	0.41
2:D:810:NAG:O7	2:D:810:NAG:C1	2.67	0.41
1:A:127:VAL:HG22	1:A:128:MET:HG3	2.03	0.41
1:A:230:VAL:HG23	1:A:323:VAL:HA	2.03	0.41
1:A:502:LEU:HD22	1:A:503:LYS:H	1.85	0.41
1:B:23:GLN:HB2	1:B:59:TRP:CD2	2.55	0.41
1:B:250:PRO:HA	1:B:255:TRP:CG	2.54	0.41
1:B:367:LEU:H	1:B:367:LEU:HG	1.41	0.41
1:D:4:ILE:HA	1:D:5:PRO:HD3	1.72	0.41
1:D:272:THR:CG2	1:D:273:THR:N	2.76	0.41
1:A:4:ILE:HB	1:B:90:GLU:C	2.39	0.41
1:A:7:ILE:O	1:A:96:ILE:HG23	2.20	0.41
1:A:515:ASP:OD1	1:A:516:ALA:N	2.52	0.41
1:B:212:THR:CG2	1:B:213:ASP:H	2.32	0.41
1:B:231:PRO:O	1:B:288:LEU:HD12	2.20	0.41
1:B:511:VAL:N	1:B:523:THR:O	2.46	0.41
1:C:231:PRO:O	1:C:235:ILE:HD13	2.21	0.41
1:C:264:ASN:HB3	1:C:267:GLY:HA2	2.01	0.41
1:C:297:VAL:HG21	2:C:807:NAG:H62	2.01	0.41
1:C:347:ARG:HG3	1:C:392:GLY:N	2.33	0.41
1:C:423:THR:CG2	2:C:810:NAG:N2	2.84	0.41
1:C:502:LEU:HD22	1:C:503:LYS:H	1.85	0.41
1:D:230:VAL:O	1:D:323:VAL:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:474:SER:N	1:D:512:LEU:O	2.53	0.41
1:A:339:VAL:HG21	1:A:351:ILE:HG22	2.01	0.41
1:A:469:TYR:CE2	1:A:470:PRO:HD2	2.54	0.41
2:A:810:NAG:O7	2:A:810:NAG:C1	2.67	0.41
1:B:23:GLN:HA	1:B:58:GLY:O	2.21	0.41
1:B:347:ARG:HG3	1:B:392:GLY:N	2.33	0.41
1:B:371:ILE:HA	1:B:410:MET:HB3	2.02	0.41
1:C:1:ASP:HB2	1:D:89:GLU:HG2	1.11	0.41
1:C:231:PRO:O	1:C:288:LEU:HD12	2.20	0.41
1:C:522:LEU:HA	1:C:522:LEU:HD23	1.36	0.41
1:D:108:PHE:HA	1:D:132:ALA:CB	2.50	0.41
1:A:23:GLN:HA	1:A:58:GLY:O	2.21	0.41
1:A:40:GLY:O	1:A:45:ASN:HB2	2.19	0.41
1:A:154:ASP:HB3	2:A:801:NAG:C7	2.48	0.41
1:B:127:VAL:HG22	1:B:128:MET:HG3	2.03	0.41
1:B:231:PRO:O	1:B:235:ILE:HD13	2.21	0.41
1:C:32:ASN:ND2	1:C:83:GLU:CB	2.62	0.41
1:C:108:PHE:HA	1:C:132:ALA:CB	2.50	0.41
1:D:23:GLN:HB2	1:D:59:TRP:CD2	2.55	0.41
1:D:108:PHE:HA	1:D:132:ALA:HB2	2.03	0.41
1:D:111:ASP:O	1:D:112:VAL:HG13	2.21	0.41
1:D:231:PRO:O	1:D:235:ILE:HD13	2.21	0.41
1:D:347:ARG:HG3	1:D:392:GLY:N	2.33	0.41
1:D:371:ILE:HA	1:D:410:MET:HB3	2.02	0.41
1:D:515:ASP:OD1	1:D:516:ALA:N	2.52	0.41
1:A:4:ILE:HD12	1:B:90:GLU:HB3	1.53	0.41
1:A:67:ASP:CG	1:A:69:GLU:HB2	2.40	0.41
1:A:68:ARG:HD3	1:A:100:ASP:CB	2.51	0.41
1:A:423:THR:CG2	2:A:810:NAG:N2	2.84	0.41
1:B:19:LYS:HB3	1:B:62:VAL:HG12	2.03	0.41
1:B:108:PHE:CZ	1:B:191:VAL:HG23	2.56	0.41
1:B:111:ASP:O	1:B:112:VAL:HG13	2.21	0.41
1:B:118:ARG:CA	1:B:212:THR:HB	2.51	0.41
1:B:474:SER:N	1:B:512:LEU:O	2.53	0.41
1:C:111:ASP:O	1:C:112:VAL:HG13	2.21	0.41
1:C:195:ASP:HB3	1:C:196:LEU:HG	2.01	0.41
1:D:68:ARG:HD3	1:D:100:ASP:CB	2.51	0.41
1:D:118:ARG:CA	1:D:212:THR:HB	2.51	0.41
1:A:62:VAL:O	1:A:62:VAL:HG13	2.21	0.41
1:C:68:ARG:HD3	1:C:100:ASP:CB	2.51	0.41
1:C:88:VAL:N	1:D:38:ILE:HD11	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:108:PHE:HA	1:C:132:ALA:HB2	2.03	0.41
1:C:108:PHE:CZ	1:C:191:VAL:HG23	2.56	0.41
1:C:474:SER:N	1:C:512:LEU:O	2.54	0.41
1:D:297:VAL:HG22	2:D:807:NAG:H62	2.03	0.41
1:A:36:TYR:CZ	1:D:2:TRP:HH2	2.39	0.41
1:A:111:ASP:O	1:A:112:VAL:HG13	2.21	0.41
1:A:448:CYS:C	1:A:452:PRO:HG3	2.40	0.41
1:B:432:ASP:CG	1:B:433:VAL:N	2.74	0.41
1:B:490:LYS:O	1:B:490:LYS:CG	2.67	0.41
1:B:505:GLY:H	1:B:529:VAL:HB	1.85	0.41
1:C:212:THR:CG2	1:C:213:ASP:H	2.32	0.41
1:C:274:ASP:HA	1:C:275:PRO:HD3	1.93	0.41
1:C:540:GLN:O	1:C:540:GLN:NE2	2.47	0.41
1:A:371:ILE:HA	1:A:410:MET:HB3	2.02	0.41
1:A:432:ASP:CG	1:A:433:VAL:N	2.74	0.41
1:A:474:SER:N	1:A:512:LEU:O	2.54	0.41
1:B:108:PHE:HA	1:B:132:ALA:HB2	2.03	0.41
1:B:261:ILE:HD13	1:B:261:ILE:H	1.85	0.41
1:B:316:THR:OG1	2:B:806:NAG:H83	2.21	0.41
1:B:409:ILE:HD13	3:B:811:NDG:C8	2.51	0.41
1:B:440:PRO:HB3	1:B:457:LEU:CD2	2.43	0.41
1:C:33:LYS:NZ	1:C:56:GLU:OE1	2.42	0.41
1:C:42:GLY:CA	1:C:47:PRO:O	2.69	0.41
1:C:62:VAL:O	1:C:62:VAL:HG13	2.21	0.41
1:C:118:ARG:CA	1:C:212:THR:HB	2.51	0.41
1:C:230:VAL:O	1:C:323:VAL:HA	2.20	0.41
1:C:239:VAL:HG13	1:C:240:GLN:N	2.33	0.41
1:C:297:VAL:HG22	2:C:807:NAG:H62	2.03	0.41
1:C:432:ASP:CG	1:C:433:VAL:N	2.74	0.41
1:D:119:GLU:CG	1:D:214:ALA:HB3	2.51	0.41
1:D:127:VAL:HG22	1:D:128:MET:HG3	2.03	0.41
1:D:239:VAL:HG11	1:D:282:LEU:HD22	2.02	0.41
1:D:432:ASP:CG	1:D:433:VAL:N	2.74	0.41
1:D:449:ASP:HB2	1:D:531:SER:HA	2.03	0.41
1:A:193:ALA:O	1:A:202:SER:HA	2.21	0.41
1:B:249:MET:O	1:B:252:THR:CB	2.69	0.41
1:C:84:ASN:C	1:D:74:TYR:CZ	2.90	0.41
1:C:252:THR:O	1:C:255:TRP:N	2.54	0.41
1:D:62:VAL:O	1:D:62:VAL:HG13	2.21	0.41
1:A:33:LYS:NZ	1:A:56:GLU:OE1	2.42	0.40
1:A:231:PRO:O	1:A:288:LEU:HD12	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:VAL:HG13	1:A:240:GLN:N	2.33	0.40
1:A:319:VAL:CG1	1:A:320:THR:N	2.84	0.40
1:A:490:LYS:O	1:A:490:LYS:CG	2.67	0.40
1:B:119:GLU:CG	1:B:214:ALA:HB3	2.51	0.40
1:B:230:VAL:HG23	1:B:323:VAL:HA	2.03	0.40
1:B:400:TYR:O	1:B:401:VAL:C	2.59	0.40
1:C:119:GLU:CG	1:C:214:ALA:HB3	2.51	0.40
1:C:193:ALA:O	1:C:202:SER:HA	2.21	0.40
1:C:320:THR:CG2	2:C:807:NAG:C2	2.76	0.40
2:C:810:NAG:O7	2:C:810:NAG:C1	2.67	0.40
1:D:138:ASN:HD22	1:D:138:ASN:N	2.19	0.40
1:D:259:TYR:O	1:D:260:LYS:CB	2.69	0.40
1:D:502:LEU:HD22	1:D:503:LYS:H	1.85	0.40
1:D:505:GLY:H	1:D:529:VAL:HB	1.85	0.40
1:D:522:LEU:HA	1:D:522:LEU:HD23	1.36	0.40
1:A:19:LYS:HB3	1:A:62:VAL:HG12	2.03	0.40
1:A:108:PHE:CZ	1:A:191:VAL:HG23	2.56	0.40
1:A:119:GLU:CG	1:A:214:ALA:HB3	2.51	0.40
1:A:316:THR:OG1	2:A:806:NAG:H83	2.21	0.40
1:B:19:LYS:HB3	1:B:62:VAL:CG1	2.52	0.40
1:C:400:TYR:O	1:C:401:VAL:C	2.59	0.40
1:D:108:PHE:CZ	1:D:191:VAL:HG23	2.56	0.40
1:D:252:THR:HA	1:D:253:PRO:HD3	1.81	0.40
1:D:316:THR:OG1	2:D:806:NAG:H83	2.21	0.40
1:A:272:THR:O	1:A:281:ILE:HG22	2.22	0.40
1:C:79:HIS:CB	1:D:39:THR:HB	2.35	0.40
1:C:230:VAL:HG23	1:C:323:VAL:HA	2.03	0.40
1:C:249:MET:O	1:C:252:THR:CB	2.69	0.40
1:C:249:MET:HA	1:C:250:PRO:HD3	1.85	0.40
1:C:290:PHE:CG	1:C:292:LEU:HB2	2.56	0.40
1:C:505:GLY:H	1:C:529:VAL:HB	1.85	0.40
1:D:23:GLN:HA	1:D:58:GLY:O	2.21	0.40
1:D:154:ASP:HB3	2:D:801:NAG:C7	2.48	0.40
1:D:249:MET:O	1:D:252:THR:CB	2.69	0.40
1:D:299:GLN:CG	1:D:318:THR:HG23	2.42	0.40
1:A:261:ILE:HD13	1:A:261:ILE:H	1.85	0.40
1:A:297:VAL:HG22	2:A:807:NAG:H62	2.03	0.40
1:B:68:ARG:HD3	1:B:100:ASP:CB	2.51	0.40
1:B:274:ASP:HA	1:B:275:PRO:HD3	1.93	0.40
1:B:449:ASP:N	1:B:532:CYS:HB3	2.19	0.40
1:C:34:VAL:CG1	1:C:80:ALA:HB1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:GLU:HB3	1:D:79:HIS:H	1.59	0.40
1:C:329:ALA:HA	1:C:330:PRO:HD3	1.87	0.40
1:C:385:ASN:O	1:C:385:ASN:ND2	2.55	0.40
1:C:396:ARG:HH21	1:C:432:ASP:CG	2.25	0.40
1:C:469:TYR:CE2	1:C:470:PRO:HD2	2.54	0.40
1:D:19:LYS:HB3	1:D:62:VAL:HG12	2.03	0.40
1:D:34:VAL:CG1	1:D:80:ALA:HB1	2.52	0.40
1:D:193:ALA:O	1:D:202:SER:HA	2.21	0.40
1:D:230:VAL:HG23	1:D:323:VAL:HA	2.03	0.40
1:D:345:LEU:HD22	1:D:349:GLU:HB2	2.03	0.40
1:D:385:ASN:ND2	1:D:385:ASN:O	2.55	0.40
1:D:409:ILE:HD13	3:D:811:NDG:C8	2.51	0.40
1:A:231:PRO:O	1:A:235:ILE:HD13	2.21	0.40
1:A:249:MET:O	1:A:252:THR:CB	2.69	0.40
1:A:396:ARG:HH21	1:A:432:ASP:CG	2.25	0.40
1:A:482:THR:HG22	1:A:499:THR:H	1.70	0.40
1:B:373:ASN:CG	1:B:374:ASP:N	2.75	0.40
1:B:378:TRP:HB2	1:B:379:LEU:H	1.64	0.40
1:B:385:ASN:ND2	1:B:385:ASN:O	2.55	0.40
1:C:87:PRO:O	1:D:38:ILE:CD1	2.68	0.40
1:C:259:TYR:O	1:C:260:LYS:CB	2.69	0.40
1:C:445:PHE:CD2	1:C:445:PHE:N	2.89	0.40
1:D:19:LYS:HB3	1:D:62:VAL:CG1	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 PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	538/880 (61%)	402 (75%)	91 (17%)	45 (8%)	0 9
1	B	538/880 (61%)	401 (74%)	93 (17%)	44 (8%)	1 9

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	538/880 (61%)	401 (74%)	92 (17%)	45 (8%)	0	9
1	D	538/880 (61%)	401 (74%)	92 (17%)	45 (8%)	0	9
All	All	2152/3520 (61%)	1605 (75%)	368 (17%)	179 (8%)	1	9

All (179) Ramachandran outliers are listed below:

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

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

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Mol	Chain	Res	Type
1	D	260	LYS
1	D	287	GLY
1	D	470	PRO
1	D	503	LYS
1	A	55	TRP
1	A	212	THR
1	A	250	PRO
1	A	333	VAL
1	A	360	ASP
1	A	372	GLY
1	A	377	ARG
1	A	506	ASP
1	B	55	TRP
1	B	212	THR
1	B	250	PRO
1	B	333	VAL
1	B	360	ASP
1	B	372	GLY
1	B	377	ARG
1	B	506	ASP
1	C	55	TRP
1	C	212	THR
1	C	250	PRO
1	C	333	VAL
1	C	360	ASP
1	C	372	GLY
1	C	377	ARG
1	C	506	ASP
1	D	55	TRP
1	D	212	THR
1	D	250	PRO
1	D	333	VAL
1	D	360	ASP
1	D	372	GLY
1	D	377	ARG
1	D	506	ASP
1	A	152	LYS
1	A	223	PRO
1	A	359	PRO
1	A	375	PRO
1	B	152	LYS
1	B	223	PRO

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Mol	Chain	Res	Type
1	B	359	PRO
1	B	375	PRO
1	C	152	LYS
1	C	223	PRO
1	C	359	PRO
1	C	375	PRO
1	D	152	LYS
1	D	223	PRO
1	D	359	PRO
1	D	375	PRO
1	A	160	PRO
1	A	265	GLU
1	A	278	ASN
1	A	289	ASP
1	A	482	THR
1	B	160	PRO
1	B	265	GLU
1	B	278	ASN
1	B	289	ASP
1	B	482	THR
1	C	160	PRO
1	C	265	GLU
1	C	278	ASN
1	C	289	ASP
1	C	482	THR
1	D	160	PRO
1	D	265	GLU
1	D	278	ASN
1	D	289	ASP
1	D	482	THR
1	A	498	PRO
1	A	523	THR
1	B	498	PRO
1	B	523	THR
1	C	498	PRO
1	C	523	THR
1	D	498	PRO
1	D	523	THR
1	A	154	ASP
1	A	307	PRO
1	B	154	ASP
1	B	307	PRO

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Mol	Chain	Res	Type
1	C	154	ASP
1	C	307	PRO
1	D	154	ASP
1	D	307	PRO
1	A	222	ASP
1	B	222	ASP
1	C	222	ASP
1	D	222	ASP
1	A	200	GLY
1	B	200	GLY
1	C	200	GLY
1	D	200	GLY
1	A	47	PRO
1	A	158	PRO
1	B	47	PRO
1	C	47	PRO
1	C	158	PRO
1	D	47	PRO
1	D	158	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	480/779 (62%)	381 (79%)	99 (21%)	1	6
1	B	480/779 (62%)	381 (79%)	99 (21%)	1	6
1	C	480/779 (62%)	381 (79%)	99 (21%)	1	6
1	D	480/779 (62%)	381 (79%)	99 (21%)	1	6
All	All	1920/3116 (62%)	1524 (79%)	396 (21%)	3	6

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

Mol	Chain	Res	Type
1	A	8	LYS
1	A	18	PRO

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Mol	Chain	Res	Type
1	A	19	LYS
1	A	27	ASN
1	A	52	ARG
1	A	61	LEU
1	A	66	LEU
1	A	68	ARG
1	A	88	VAL
1	A	91	PRO
1	A	92	MET
1	A	117	VAL
1	A	138	ASN
1	A	146	LEU
1	A	151	LEU
1	A	155	PRO
1	A	156	GLU
1	A	161	ASN
1	A	163	PHE
1	A	189	LEU
1	A	195	ASP
1	A	202	SER
1	A	216	ASP
1	A	217	ASN
1	A	223	PRO
1	A	226	TYR
1	A	231	PRO
1	A	233	ASN
1	A	234	GLU
1	A	235	ILE
1	A	237	PHE
1	A	250	PRO
1	A	253	PRO
1	A	261	ILE
1	A	264	ASN
1	A	268	PHE
1	A	273	THR
1	A	277	SER
1	A	278	ASN
1	A	282	LEU
1	A	284	THR
1	A	288	LEU
1	A	298	LEU
1	A	309	SER

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Mol	Chain	Res	Type
1	A	310	VAL
1	A	315	SER
1	A	316	THR
1	A	318	THR
1	A	333	VAL
1	A	336	VAL
1	A	339	VAL
1	A	345	LEU
1	A	353	SER
1	A	354	LEU
1	A	360	ASP
1	A	363	GLN
1	A	364	ILE
1	A	365	GLN
1	A	371	ILE
1	A	373	ASN
1	A	375	PRO
1	A	379	LEU
1	A	382	ASN
1	A	384	ASP
1	A	385	ASN
1	A	393	ASN
1	A	394	LEU
1	A	395	ASP
1	A	398	SER
1	A	399	GLU
1	A	404	ASN
1	A	405	THR
1	A	407	THR
1	A	410	MET
1	A	423	THR
1	A	425	THR
1	A	427	ILE
1	A	428	LEU
1	A	433	VAL
1	A	436	ASN
1	A	447	MET
1	A	448	CYS
1	A	461	ASP
1	A	464	ILE
1	A	465	PRO
1	A	466	PRO

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Mol	Chain	Res	Type
1	A	470	PRO
1	A	477	HIS
1	A	492	THR
1	A	509	ILE
1	A	512	LEU
1	A	517	GLN
1	A	518	ASN
1	A	519	ASN
1	A	520	PRO
1	A	522	LEU
1	A	523	THR
1	A	532	CYS
1	A	540	GLN
1	B	8	LYS
1	B	18	PRO
1	B	19	LYS
1	B	27	ASN
1	B	52	ARG
1	B	61	LEU
1	B	66	LEU
1	B	68	ARG
1	B	88	VAL
1	B	91	PRO
1	B	92	MET
1	B	117	VAL
1	B	138	ASN
1	B	146	LEU
1	B	151	LEU
1	B	155	PRO
1	B	156	GLU
1	B	161	ASN
1	B	163	PHE
1	B	189	LEU
1	B	195	ASP
1	B	202	SER
1	B	216	ASP
1	B	217	ASN
1	B	223	PRO
1	B	226	TYR
1	B	231	PRO
1	B	233	ASN
1	B	234	GLU

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Mol	Chain	Res	Type
1	B	235	ILE
1	B	237	PHE
1	B	250	PRO
1	B	253	PRO
1	B	261	ILE
1	B	264	ASN
1	B	268	PHE
1	B	273	THR
1	B	277	SER
1	B	278	ASN
1	B	282	LEU
1	B	284	THR
1	B	288	LEU
1	B	298	LEU
1	B	309	SER
1	B	310	VAL
1	B	315	SER
1	B	316	THR
1	B	318	THR
1	B	333	VAL
1	B	336	VAL
1	B	339	VAL
1	B	345	LEU
1	B	353	SER
1	B	354	LEU
1	B	360	ASP
1	B	363	GLN
1	B	364	ILE
1	B	365	GLN
1	B	371	ILE
1	B	373	ASN
1	B	375	PRO
1	B	379	LEU
1	B	382	ASN
1	B	384	ASP
1	B	385	ASN
1	B	393	ASN
1	B	394	LEU
1	B	395	ASP
1	B	398	SER
1	B	399	GLU
1	B	404	ASN

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Mol	Chain	Res	Type
1	B	405	THR
1	B	407	THR
1	B	410	MET
1	B	423	THR
1	B	425	THR
1	B	427	ILE
1	B	428	LEU
1	B	433	VAL
1	B	436	ASN
1	B	447	MET
1	B	448	CYS
1	B	461	ASP
1	B	464	ILE
1	B	465	PRO
1	B	466	PRO
1	B	470	PRO
1	B	477	HIS
1	B	492	THR
1	B	509	ILE
1	B	512	LEU
1	B	517	GLN
1	B	518	ASN
1	B	519	ASN
1	B	520	PRO
1	B	522	LEU
1	B	523	THR
1	B	532	CYS
1	B	540	GLN
1	C	8	LYS
1	C	18	PRO
1	C	19	LYS
1	C	27	ASN
1	C	52	ARG
1	C	61	LEU
1	C	66	LEU
1	C	68	ARG
1	C	88	VAL
1	C	91	PRO
1	C	92	MET
1	C	117	VAL
1	C	138	ASN
1	C	146	LEU

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Mol	Chain	Res	Type
1	C	151	LEU
1	C	155	PRO
1	C	156	GLU
1	C	161	ASN
1	C	163	PHE
1	C	189	LEU
1	C	195	ASP
1	C	202	SER
1	C	216	ASP
1	C	217	ASN
1	C	223	PRO
1	C	226	TYR
1	C	231	PRO
1	C	233	ASN
1	C	234	GLU
1	C	235	ILE
1	C	237	PHE
1	C	250	PRO
1	C	253	PRO
1	C	261	ILE
1	C	264	ASN
1	C	268	PHE
1	C	273	THR
1	C	277	SER
1	C	278	ASN
1	C	282	LEU
1	C	284	THR
1	C	288	LEU
1	C	298	LEU
1	C	309	SER
1	C	310	VAL
1	C	315	SER
1	C	316	THR
1	C	318	THR
1	C	333	VAL
1	C	336	VAL
1	C	339	VAL
1	C	345	LEU
1	C	353	SER
1	C	354	LEU
1	C	360	ASP
1	C	363	GLN

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Mol	Chain	Res	Type
1	C	364	ILE
1	C	365	GLN
1	C	371	ILE
1	C	373	ASN
1	C	375	PRO
1	C	379	LEU
1	C	382	ASN
1	C	384	ASP
1	C	385	ASN
1	C	393	ASN
1	C	394	LEU
1	C	395	ASP
1	C	398	SER
1	C	399	GLU
1	C	404	ASN
1	C	405	THR
1	C	407	THR
1	C	410	MET
1	C	423	THR
1	C	425	THR
1	C	427	ILE
1	C	428	LEU
1	C	433	VAL
1	C	436	ASN
1	C	447	MET
1	C	448	CYS
1	C	461	ASP
1	C	464	ILE
1	C	465	PRO
1	C	466	PRO
1	C	470	PRO
1	C	477	HIS
1	C	492	THR
1	C	509	ILE
1	C	512	LEU
1	C	517	GLN
1	C	518	ASN
1	C	519	ASN
1	C	520	PRO
1	C	522	LEU
1	C	523	THR
1	C	532	CYS

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Mol	Chain	Res	Type
1	C	540	GLN
1	D	8	LYS
1	D	18	PRO
1	D	19	LYS
1	D	27	ASN
1	D	52	ARG
1	D	61	LEU
1	D	66	LEU
1	D	68	ARG
1	D	88	VAL
1	D	91	PRO
1	D	92	MET
1	D	117	VAL
1	D	138	ASN
1	D	146	LEU
1	D	151	LEU
1	D	155	PRO
1	D	156	GLU
1	D	161	ASN
1	D	163	PHE
1	D	189	LEU
1	D	195	ASP
1	D	202	SER
1	D	216	ASP
1	D	217	ASN
1	D	223	PRO
1	D	226	TYR
1	D	231	PRO
1	D	233	ASN
1	D	234	GLU
1	D	235	ILE
1	D	237	PHE
1	D	250	PRO
1	D	253	PRO
1	D	261	ILE
1	D	264	ASN
1	D	268	PHE
1	D	273	THR
1	D	277	SER
1	D	278	ASN
1	D	282	LEU
1	D	284	THR

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Mol	Chain	Res	Type
1	D	288	LEU
1	D	298	LEU
1	D	309	SER
1	D	310	VAL
1	D	315	SER
1	D	316	THR
1	D	318	THR
1	D	333	VAL
1	D	336	VAL
1	D	339	VAL
1	D	345	LEU
1	D	353	SER
1	D	354	LEU
1	D	360	ASP
1	D	363	GLN
1	D	364	ILE
1	D	365	GLN
1	D	371	ILE
1	D	373	ASN
1	D	375	PRO
1	D	379	LEU
1	D	382	ASN
1	D	384	ASP
1	D	385	ASN
1	D	393	ASN
1	D	394	LEU
1	D	395	ASP
1	D	398	SER
1	D	399	GLU
1	D	404	ASN
1	D	405	THR
1	D	407	THR
1	D	410	MET
1	D	423	THR
1	D	425	THR
1	D	427	ILE
1	D	428	LEU
1	D	433	VAL
1	D	436	ASN
1	D	447	MET
1	D	448	CYS
1	D	461	ASP

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

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

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

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

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Mol	Chain	Res	Type
1	C	455	GLN
1	C	467	ASN
1	C	517	GLN
1	C	519	ASN
1	D	12	ASN
1	D	27	ASN
1	D	32	ASN
1	D	79	HIS
1	D	104	ASN
1	D	110	GLN
1	D	122	GLN
1	D	138	ASN
1	D	217	ASN
1	D	233	ASN
1	D	240	GLN
1	D	264	ASN
1	D	278	ASN
1	D	299	GLN
1	D	373	ASN
1	D	385	ASN
1	D	391	ASN
1	D	393	ASN
1	D	404	ASN
1	D	455	GLN
1	D	467	ASN
1	D	517	GLN
1	D	519	ASN

5.3.3 RNA

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 (i)

Of 108 ligands modelled in this entry, 48 are monoatomic - leaving 60 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
3	NDG	D	811	1	14,14,15	0.87	0	17,19,21	1.96	1 (5%)
2	NAG	C	801	1	14,14,15	0.70	0	17,19,21	0.98	1 (5%)
2	NAG	A	903	1	14,14,15	0.55	0	17,19,21	0.79	0
2	NAG	C	808	1	14,14,15	0.67	0	17,19,21	0.70	0
3	NDG	B	811	1	14,14,15	0.86	0	17,19,21	1.96	1 (5%)
2	NAG	D	812	1	14,14,15	0.83	1 (7%)	17,19,21	0.75	1 (5%)
2	NAG	A	807	1	14,14,15	0.64	0	17,19,21	1.19	2 (11%)
2	NAG	A	802	1	14,14,15	0.78	1 (7%)	17,19,21	0.85	0
2	NAG	B	809	1	14,14,15	0.76	0	17,19,21	0.94	0
2	NAG	D	805	1	14,14,15	0.71	0	17,19,21	1.05	1 (5%)
2	NAG	C	902	1	14,14,15	1.13	1 (7%)	17,19,21	1.09	2 (11%)
2	NAG	D	904	1	14,14,15	0.78	1 (7%)	17,19,21	0.70	1 (5%)
2	NAG	C	802	1	14,14,15	0.78	1 (7%)	17,19,21	0.85	0
2	NAG	B	904	1	14,14,15	0.77	1 (7%)	17,19,21	0.69	0
2	NAG	B	903	1	14,14,15	0.56	0	17,19,21	0.79	0
2	NAG	C	806	1	14,14,15	0.57	0	17,19,21	1.39	3 (17%)
2	NAG	D	902	1	14,14,15	1.13	1 (7%)	17,19,21	1.09	1 (5%)
2	NAG	C	903	1	14,14,15	0.55	0	17,19,21	0.78	0
2	NAG	D	806	1	14,14,15	0.55	0	17,19,21	1.38	3 (17%)
2	NAG	D	903	1	14,14,15	0.54	0	17,19,21	0.79	0
3	NDG	A	811	1	14,14,15	0.87	0	17,19,21	1.96	1 (5%)
2	NAG	B	802	1	14,14,15	0.78	1 (7%)	17,19,21	0.85	0
2	NAG	C	807	1	14,14,15	0.64	0	17,19,21	1.19	2 (11%)
2	NAG	A	801	1	14,14,15	0.71	0	17,19,21	0.99	1 (5%)
2	NAG	B	807	1	14,14,15	0.65	0	17,19,21	1.20	2 (11%)
2	NAG	C	803	1	14,14,15	1.00	1 (7%)	17,19,21	1.17	2 (11%)
2	NAG	C	904	1	14,14,15	0.77	1 (7%)	17,19,21	0.70	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	NAG	D	803	1	14,14,15	1.00	1 (7%)	17,19,21	1.16	2 (11%)
2	NAG	B	808	1	14,14,15	0.66	0	17,19,21	0.70	0
3	NDG	A	804	1	14,14,15	0.65	0	17,19,21	0.78	0
3	NDG	B	804	1	14,14,15	0.64	0	17,19,21	0.78	0
3	NDG	C	811	1	14,14,15	0.87	0	17,19,21	1.96	1 (5%)
2	NAG	B	803	1	14,14,15	1.00	1 (7%)	17,19,21	1.17	2 (11%)
2	NAG	A	803	1	14,14,15	1.00	1 (7%)	17,19,21	1.16	2 (11%)
2	NAG	C	809	1	14,14,15	0.77	1 (7%)	17,19,21	0.94	0
2	NAG	C	812	1	14,14,15	0.83	1 (7%)	17,19,21	0.76	1 (5%)
3	NDG	D	804	1	14,14,15	0.64	0	17,19,21	0.78	0
2	NAG	D	809	1	14,14,15	0.77	1 (7%)	17,19,21	0.94	0
2	NAG	B	805	1	14,14,15	0.72	0	17,19,21	1.05	1 (5%)
2	NAG	A	810	1	14,14,15	0.67	0	17,19,21	1.33	4 (23%)
2	NAG	D	801	1	14,14,15	0.70	0	17,19,21	0.98	1 (5%)
2	NAG	B	812	1	14,14,15	0.83	1 (7%)	17,19,21	0.76	1 (5%)
2	NAG	C	810	1	14,14,15	0.66	0	17,19,21	1.33	4 (23%)
2	NAG	B	801	1	14,14,15	0.70	0	17,19,21	0.98	1 (5%)
2	NAG	B	902	1	14,14,15	1.12	1 (7%)	17,19,21	1.09	2 (11%)
2	NAG	A	806	1	14,14,15	0.55	0	17,19,21	1.39	3 (17%)
2	NAG	B	810	1	14,14,15	0.67	0	17,19,21	1.33	4 (23%)
2	NAG	A	812	1	14,14,15	0.84	1 (7%)	17,19,21	0.76	1 (5%)
2	NAG	D	810	1	14,14,15	0.67	0	17,19,21	1.33	4 (23%)
2	NAG	D	807	1	14,14,15	0.65	0	17,19,21	1.19	2 (11%)
2	NAG	A	808	1	14,14,15	0.67	0	17,19,21	0.70	0
2	NAG	A	904	1	14,14,15	0.77	1 (7%)	17,19,21	0.70	1 (5%)
3	NDG	C	804	1	14,14,15	0.64	0	17,19,21	0.78	0
2	NAG	A	809	1	14,14,15	0.77	1 (7%)	17,19,21	0.94	0
2	NAG	D	802	1	14,14,15	0.78	1 (7%)	17,19,21	0.85	0
2	NAG	A	805	1	14,14,15	0.72	0	17,19,21	1.06	1 (5%)
2	NAG	B	806	1	14,14,15	0.56	0	17,19,21	1.39	3 (17%)
2	NAG	D	808	1	14,14,15	0.66	0	17,19,21	0.70	0
2	NAG	A	902	1	14,14,15	1.15	1 (7%)	17,19,21	1.08	2 (11%)
2	NAG	C	805	1	14,14,15	0.72	0	17,19,21	1.05	1 (5%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

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

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

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	902	NAG	C1-C2	3.42	1.57	1.52
2	C	902	NAG	C1-C2	3.37	1.56	1.52
2	B	902	NAG	C1-C2	3.34	1.56	1.52
2	D	902	NAG	C1-C2	3.33	1.56	1.52
2	C	803	NAG	O5-C5	2.65	1.48	1.43
2	D	803	NAG	O5-C5	2.64	1.48	1.43
2	B	803	NAG	O5-C5	2.62	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	803	NAG	O5-C5	2.62	1.48	1.43
2	D	904	NAG	C1-C2	-2.45	1.49	1.52
2	C	904	NAG	C1-C2	-2.42	1.49	1.52
2	A	904	NAG	C1-C2	-2.41	1.49	1.52
2	B	904	NAG	C1-C2	-2.39	1.49	1.52
2	A	812	NAG	C1-C2	-2.35	1.49	1.52
2	C	812	NAG	C1-C2	-2.31	1.49	1.52
2	D	812	NAG	C1-C2	-2.29	1.49	1.52
2	B	812	NAG	C1-C2	-2.27	1.49	1.52
2	A	802	NAG	C1-C2	2.13	1.55	1.52
2	D	802	NAG	C1-C2	2.11	1.55	1.52
2	B	802	NAG	C1-C2	2.10	1.55	1.52
2	D	809	NAG	C1-C2	-2.07	1.49	1.52
2	C	802	NAG	C1-C2	2.06	1.55	1.52
2	C	809	NAG	C1-C2	-2.06	1.49	1.52
2	A	809	NAG	C1-C2	-2.04	1.49	1.52

All (70) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D	811	NDG	C2-N2-C7	-7.43	112.94	122.90
3	A	811	NDG	C2-N2-C7	-7.42	112.95	122.90
3	B	811	NDG	C2-N2-C7	-7.42	112.95	122.90
3	C	811	NDG	C2-N2-C7	-7.41	112.97	122.90
2	B	806	NAG	C2-N2-C7	-3.65	118.01	122.90
2	C	806	NAG	C2-N2-C7	-3.62	118.04	122.90
2	A	806	NAG	C2-N2-C7	-3.59	118.08	122.90
2	D	806	NAG	C2-N2-C7	-3.58	118.10	122.90
2	C	805	NAG	C2-N2-C7	-3.18	118.64	122.90
2	A	805	NAG	C2-N2-C7	-3.17	118.65	122.90
2	B	805	NAG	C2-N2-C7	-3.16	118.67	122.90
2	D	805	NAG	C2-N2-C7	-3.14	118.69	122.90
2	B	807	NAG	C2-N2-C7	-3.09	118.77	122.90
2	D	807	NAG	C2-N2-C7	-3.07	118.79	122.90
2	A	807	NAG	C2-N2-C7	-3.06	118.80	122.90
2	C	807	NAG	C2-N2-C7	-3.04	118.82	122.90
2	C	803	NAG	C2-N2-C7	-3.01	118.87	122.90
2	B	803	NAG	C2-N2-C7	-3.00	118.88	122.90
2	D	803	NAG	C2-N2-C7	-3.00	118.88	122.90
2	A	803	NAG	C2-N2-C7	-2.98	118.91	122.90
2	C	810	NAG	C1-C2-N2	2.53	114.42	110.43
2	A	810	NAG	C1-C2-N2	2.52	114.41	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	810	NAG	C1-C2-N2	2.52	114.40	110.43
2	D	810	NAG	C1-C2-N2	2.50	114.37	110.43
2	B	810	NAG	C4-C3-C2	-2.47	107.40	111.02
2	C	803	NAG	C1-O5-C5	2.46	115.49	112.19
2	B	803	NAG	C1-O5-C5	2.46	115.49	112.19
2	A	806	NAG	C4-C3-C2	-2.46	107.41	111.02
2	C	810	NAG	C4-C3-C2	-2.46	107.41	111.02
2	A	803	NAG	C1-O5-C5	2.46	115.48	112.19
2	A	810	NAG	C4-C3-C2	-2.45	107.42	111.02
2	D	810	NAG	C4-C3-C2	-2.45	107.42	111.02
2	B	806	NAG	C4-C3-C2	-2.45	107.42	111.02
2	D	806	NAG	C4-C3-C2	-2.44	107.44	111.02
2	C	806	NAG	C4-C3-C2	-2.43	107.46	111.02
2	D	803	NAG	C1-O5-C5	2.42	115.43	112.19
2	D	810	NAG	O5-C1-C2	-2.39	107.60	111.29
2	A	810	NAG	O5-C1-C2	-2.37	107.63	111.29
2	B	810	NAG	O5-C1-C2	-2.36	107.64	111.29
2	C	810	NAG	O5-C1-C2	-2.35	107.65	111.29
2	B	810	NAG	C1-O5-C5	-2.26	109.16	112.19
2	C	810	NAG	C1-O5-C5	-2.25	109.18	112.19
2	D	810	NAG	C1-O5-C5	-2.23	109.20	112.19
2	A	810	NAG	C1-O5-C5	-2.22	109.21	112.19
2	C	812	NAG	C2-N2-C7	-2.18	119.98	122.90
2	A	812	NAG	C2-N2-C7	-2.18	119.98	122.90
2	C	902	NAG	O5-C1-C2	2.17	114.66	111.29
2	B	812	NAG	C2-N2-C7	-2.16	120.00	122.90
2	A	801	NAG	C1-C2-N2	-2.16	107.03	110.43
2	D	801	NAG	C1-C2-N2	-2.15	107.05	110.43
2	B	902	NAG	O5-C1-C2	2.14	114.61	111.29
2	C	801	NAG	C1-C2-N2	-2.14	107.07	110.43
2	D	902	NAG	O5-C1-C2	2.14	114.59	111.29
2	B	801	NAG	C1-C2-N2	-2.13	107.08	110.43
2	A	902	NAG	O5-C1-C2	2.13	114.58	111.29
2	D	812	NAG	C2-N2-C7	-2.12	120.06	122.90
2	A	807	NAG	O5-C1-C2	-2.08	108.07	111.29
2	C	807	NAG	O5-C1-C2	-2.06	108.11	111.29
2	B	807	NAG	O5-C1-C2	-2.05	108.12	111.29
2	B	902	NAG	C1-O5-C5	2.05	114.93	112.19
2	A	806	NAG	O5-C1-C2	-2.04	108.13	111.29
2	A	904	NAG	C2-N2-C7	-2.04	120.17	122.90
2	D	807	NAG	O5-C1-C2	-2.04	108.14	111.29
2	C	904	NAG	C2-N2-C7	-2.04	120.17	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	904	NAG	C2-N2-C7	-2.03	120.17	122.90
2	B	806	NAG	O5-C1-C2	-2.02	108.17	111.29
2	C	902	NAG	C1-O5-C5	2.02	114.89	112.19
2	D	806	NAG	O5-C1-C2	-2.02	108.17	111.29
2	C	806	NAG	O5-C1-C2	-2.01	108.19	111.29
2	A	902	NAG	C1-O5-C5	2.01	114.88	112.19

All (16) chirality outliers are listed below:

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

All (152) torsion outliers are listed below:

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

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Mol	Chain	Res	Type	Atoms
2	C	807	NAG	C3-C2-N2-C7
2	C	808	NAG	C1-C2-N2-C7
2	C	810	NAG	C1-C2-N2-C7
2	C	812	NAG	C1-C2-N2-C7
2	C	902	NAG	C3-C2-N2-C7
2	C	904	NAG	C3-C2-N2-C7
2	D	807	NAG	C3-C2-N2-C7
2	D	808	NAG	C1-C2-N2-C7
2	D	810	NAG	C1-C2-N2-C7
2	D	812	NAG	C1-C2-N2-C7
2	D	902	NAG	C3-C2-N2-C7
2	D	904	NAG	C3-C2-N2-C7
3	A	811	NDG	C4-C5-C6-O6
3	B	811	NDG	C4-C5-C6-O6
3	C	811	NDG	C4-C5-C6-O6
3	D	811	NDG	C4-C5-C6-O6
2	A	802	NAG	C4-C5-C6-O6
2	A	807	NAG	C4-C5-C6-O6
2	B	802	NAG	C4-C5-C6-O6
2	B	807	NAG	C4-C5-C6-O6
2	C	802	NAG	C4-C5-C6-O6
2	C	807	NAG	C4-C5-C6-O6
2	D	807	NAG	C4-C5-C6-O6
3	A	811	NDG	O5-C5-C6-O6
3	B	811	NDG	O5-C5-C6-O6
3	C	811	NDG	O5-C5-C6-O6
3	D	811	NDG	O5-C5-C6-O6
2	D	802	NAG	C4-C5-C6-O6
2	A	809	NAG	O5-C5-C6-O6
2	B	809	NAG	O5-C5-C6-O6
2	C	809	NAG	O5-C5-C6-O6
2	D	809	NAG	O5-C5-C6-O6
2	A	809	NAG	C4-C5-C6-O6
2	B	809	NAG	C4-C5-C6-O6
2	C	809	NAG	C4-C5-C6-O6
2	D	809	NAG	C4-C5-C6-O6
2	A	807	NAG	O5-C5-C6-O6
2	B	807	NAG	O5-C5-C6-O6
2	C	807	NAG	O5-C5-C6-O6
2	D	807	NAG	O5-C5-C6-O6
2	A	807	NAG	C8-C7-N2-C2
2	B	807	NAG	C8-C7-N2-C2

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

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

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

There are no ring outliers.

52 monomers are involved in 403 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	811	NDG	7	0
2	C	801	NAG	22	0
2	C	808	NAG	2	0
3	B	811	NDG	8	0
2	D	812	NAG	3	0
2	A	807	NAG	17	0
2	B	809	NAG	8	0
2	D	805	NAG	7	0
2	C	902	NAG	8	0
2	D	904	NAG	8	0
2	B	904	NAG	8	0
2	C	806	NAG	10	0
2	D	902	NAG	8	0
2	D	806	NAG	12	0
3	A	811	NDG	7	0
2	C	807	NAG	17	0
2	A	801	NAG	21	0
2	B	807	NAG	16	0
2	C	803	NAG	4	0
2	C	904	NAG	8	0
2	D	803	NAG	4	0
2	B	808	NAG	2	0
3	A	804	NDG	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	804	NDG	2	0
3	C	811	NDG	6	0
2	B	803	NAG	4	0
2	A	803	NAG	4	0
2	C	809	NAG	8	0
2	C	812	NAG	3	0
3	D	804	NDG	2	0
2	D	809	NAG	8	0
2	B	805	NAG	7	0
2	A	810	NAG	13	0
2	D	801	NAG	21	0
2	B	812	NAG	3	0
2	C	810	NAG	13	0
2	B	801	NAG	20	0
2	B	902	NAG	8	0
2	A	806	NAG	12	0
2	B	810	NAG	12	0
2	A	812	NAG	3	0
2	D	810	NAG	12	0
2	D	807	NAG	17	0
2	A	808	NAG	2	0
2	A	904	NAG	8	0
3	C	804	NDG	2	0
2	A	809	NAG	8	0
2	A	805	NAG	7	0
2	B	806	NAG	12	0
2	D	808	NAG	2	0
2	A	902	NAG	8	0
2	C	805	NAG	6	0

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Tomogram visualisation

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

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Mask visualisation

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

7 Tomogram analysis (i)

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

7.1 Map-value distribution (i)

This section was not generated.

8 Map-model fit

This section was not generated.