



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 08:54 PM UTC

PDB ID : 9IUS / pdb_00009ius
EMDB ID : EMD-60913
Title : Structure of a hierarchical intermediate region (axiafirbil) of human collagen type
Authors : Fang, B.H.; Zhang, L.J.
Deposited on : 2024-07-22
Resolution : 9.80 Å(reported)

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:

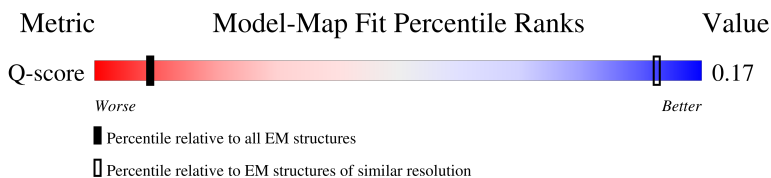
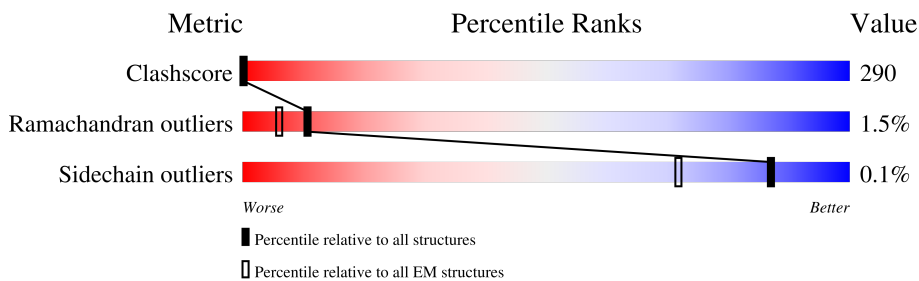
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

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



The reported resolution of this entry is 9.80 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	157 (9.30 - 10.30)

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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	780	 9% 91%
1	2	780	 9% 91%
1	3	780	 8% 91%
1	4	780	 9% 90%


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Mol	Chain	Length	Quality of chain	
1	A	780	 9%	91%
1	B	780	 8%	91%
1	C	780	 9%	90%
1	D	780	 9%	91%
1	E	780	 9%	90%
1	F	780	 9%	90%
1	G	780	 8%	91%
1	H	780	 8%	91%
1	I	780	 5% 9%	91%
1	J	780	 9%	90%
1	K	780	 9%	91%
1	L	780	 9%	91%
1	M	780	 9%	91%
1	N	780	 8%	91%
1	O	780	 8%	91%
1	P	780	 8%	92%
1	Q	780	 8%	91%
1	R	780	 8%	91%
1	S	780	 9%	91%
1	T	780	 9%	91%
1	U	780	 9%	90%
1	V	780	 8%	90%
1	W	780	 9%	90%
1	X	780	 9%	90%
1	Y	780	 8%	91%

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Mol	Chain	Length	Quality of chain
1	Z	780	 9% 91%

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 15288 atoms, of which 2476 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 axialfibril.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	H	N	O		
1	X	75	Total 525	C 265	H 85	N 85	O 90	0	0
1	A	73	Total 514	C 260	H 83	N 83	O 88	0	0
1	B	72	Total 507	C 255	H 83	N 82	O 87	0	0
1	C	75	Total 525	C 265	H 85	N 85	O 90	0	0
1	D	74	Total 519	C 262	H 84	N 84	O 89	0	0
1	E	75	Total 525	C 265	H 85	N 85	O 90	0	0
1	F	75	Total 525	C 265	H 85	N 85	O 90	0	0
1	G	71	Total 493	C 249	H 79	N 80	O 85	0	0
1	H	71	Total 493	C 249	H 79	N 80	O 85	0	0
1	I	73	Total 513	C 258	H 84	N 83	O 88	0	0
1	J	75	Total 525	C 265	H 85	N 85	O 90	0	0
1	K	73	Total 513	C 258	H 84	N 83	O 88	0	0
1	L	73	Total 513	C 258	H 84	N 83	O 88	0	0
1	M	71	Total 501	C 252	H 82	N 81	O 86	0	0
1	N	72	Total 507	C 255	H 83	N 82	O 87	0	0
1	O	70	Total 493	C 247	H 81	N 80	O 85	0	0
1	P	66	Total 463	C 232	H 76	N 75	O 80	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Q	70	Total	C	H	N	O	0	0
			486	244	79	79	84		
1	Y	70	Total	C	H	N	O	0	0
			487	247	78	79	83		
1	Z	72	Total	C	H	N	O	0	0
			507	255	83	82	87		
1	1	71	Total	C	H	N	O	0	0
			495	250	80	80	85		
1	2	74	Total	C	H	N	O	0	0
			517	262	83	84	88		
1	3	74	Total	C	H	N	O	0	0
			520	263	84	84	89		
1	4	75	Total	C	H	N	O	0	0
			525	265	85	85	90		
1	R	70	Total	C	H	N	O	0	0
			487	247	78	79	83		
1	S	71	Total	C	H	N	O	0	0
			502	253	82	81	86		
1	T	72	Total	C	H	N	O	0	0
			502	255	80	81	86		
1	U	77	Total	C	H	N	O	0	0
			537	272	86	87	92		
1	V	76	Total	C	H	N	O	0	0
			532	270	85	86	91		
1	W	77	Total	C	H	N	O	0	0
			537	272	86	87	92		

3 Residue-property plots

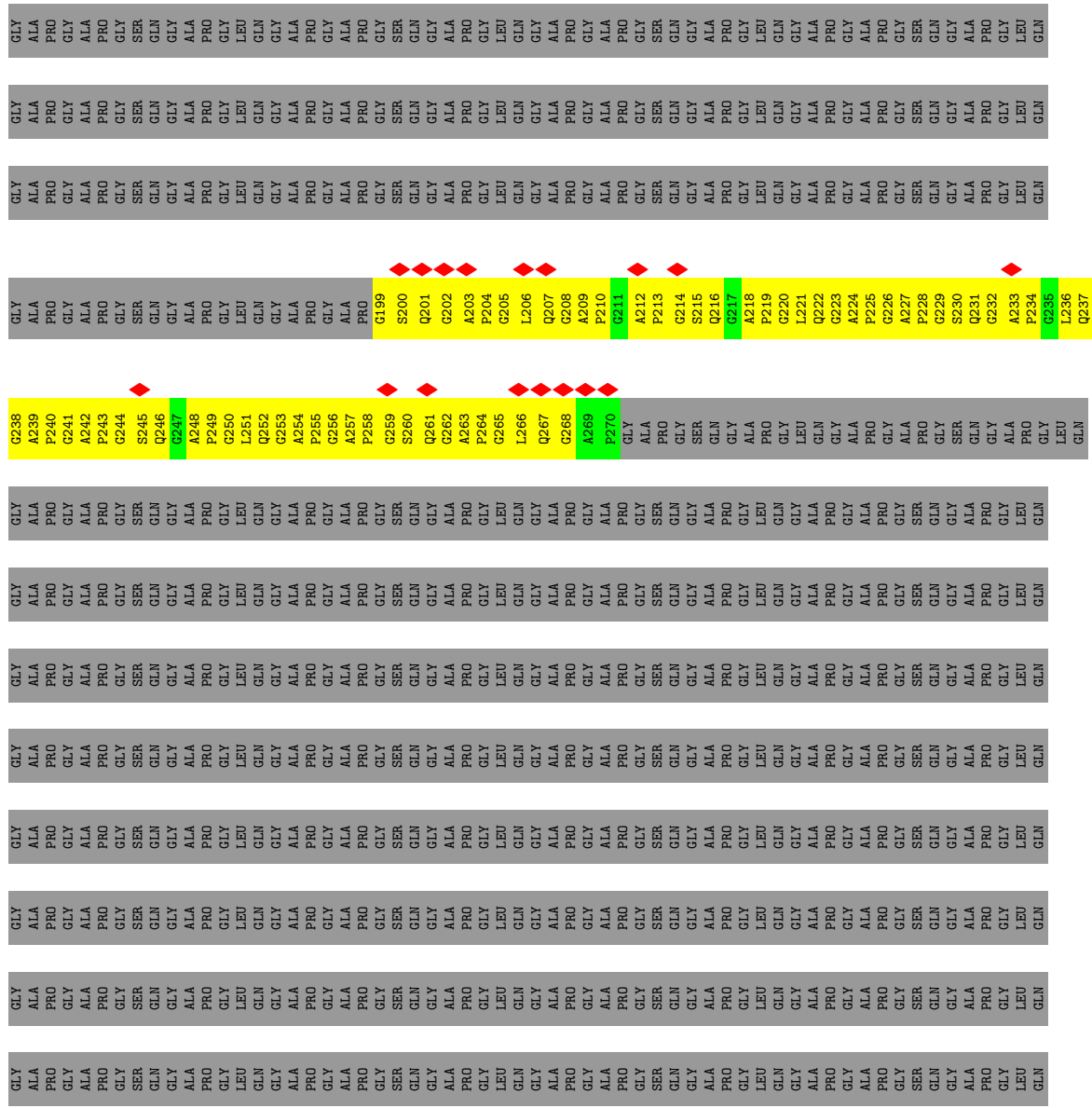
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: axialfibril



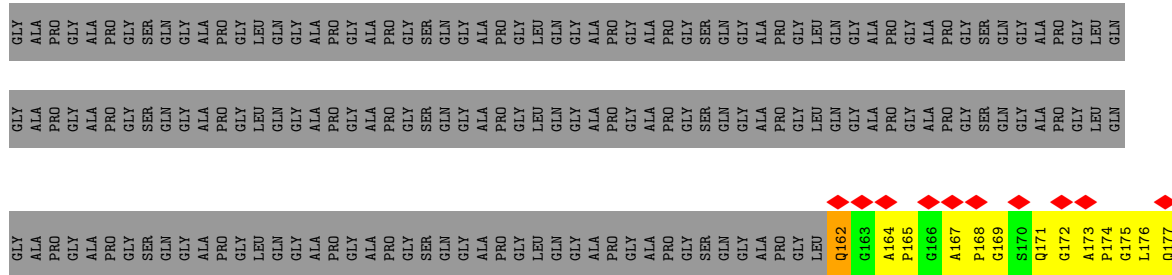
Molecule 1: axialfibril

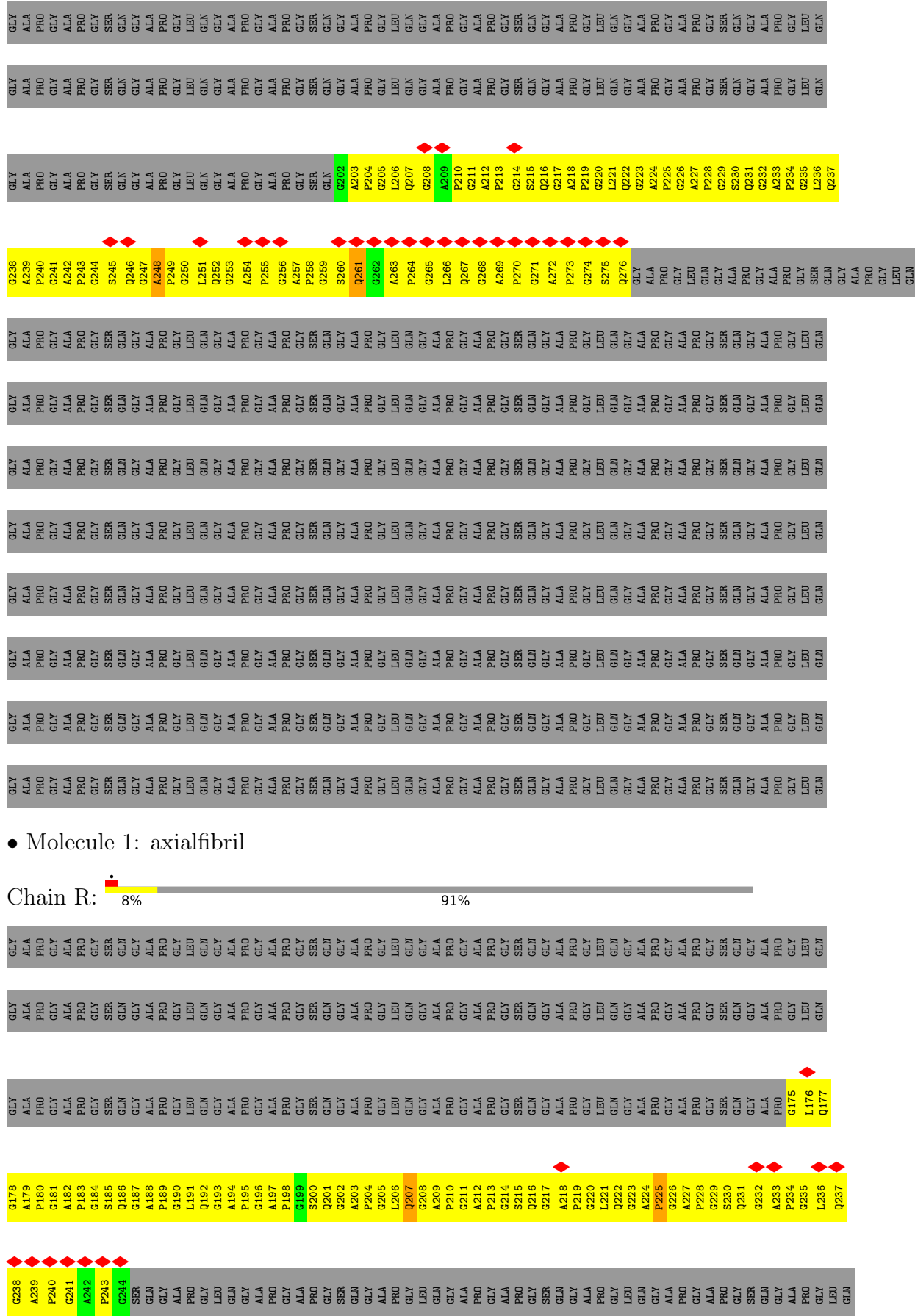
Chain N: 8% 91%



Molecule 1: axialfibril

Chain O: 8% 91%





ALA PRO GLY GLY ALA ALA PRO PRO SER GLN GLY GLY ALA ALA GLY LEU GLN GLN ALA ALA PRO PRO GLY GLY SER SER GLN GLN ALA ALA PRO PRO GLY GLY

ALA PRO GLY ALA ALA PRO PRO SER GLN GLY GLY ALA ALA GLY LEU GLN GLN ALA ALA PRO PRO GLY GLY SER SER GLN GLN ALA ALA PRO PRO GLY GLY

ALA PRO GLY ALA ALA PRO PRO SER GLN GLY GLY ALA ALA GLY LEU GLN GLN ALA ALA PRO PRO GLY GLY SER SER GLN GLN ALA ALA PRO PRO GLY GLY

ALA PRO GLY ALA ALA PRO PRO SER GLN GLY GLY ALA ALA GLY LEU GLN GLN ALA ALA PRO PRO GLY GLY SER SER GLN GLN ALA ALA PRO PRO GLY GLY

ALA PRO GLY ALA ALA PRO PRO SER GLN GLY GLY ALA ALA GLY LEU GLN GLN ALA ALA PRO PRO GLY GLY SER SER GLN GLN ALA ALA PRO PRO GLY GLY

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	40485	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2800	Depositor
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	2.296	Depositor
Minimum map value	-0.878	Depositor
Average map value	0.021	Depositor
Map value standard deviation	0.172	Depositor
Recommended contour level	0.97	Depositor
Map size (Å)	216.00002, 216.00002, 216.00002	wwPDB
Map dimensions	180, 180, 180	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.2, 1.2, 1.2	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	1	0.22	0/428	0.75	2/586 (0.3%)
1	2	0.22	0/448	0.45	0/614
1	3	0.19	0/450	0.40	0/617
1	4	0.20	0/454	0.50	0/622
1	A	0.16	0/445	0.38	0/609
1	B	0.18	0/437	0.44	0/598
1	C	0.16	0/454	0.41	0/621
1	D	0.16	0/449	0.37	0/614
1	E	0.17	0/454	0.39	0/622
1	F	0.20	0/454	0.46	0/622
1	G	0.17	0/428	0.33	0/586
1	H	0.17	0/428	0.39	0/586
1	I	0.14	0/442	0.35	0/605
1	J	0.17	0/454	0.43	0/622
1	K	0.20	0/442	0.46	0/605
1	L	0.19	0/442	0.70	2/605 (0.3%)
1	M	0.21	0/432	0.51	0/590
1	N	0.17	0/437	0.42	0/598
1	O	0.14	0/425	0.37	0/582
1	P	0.17	0/399	0.45	0/546
1	Q	0.20	0/420	0.38	0/575
1	R	0.18	0/422	0.49	0/578
1	S	0.18	0/433	0.41	0/593
1	T	0.19	0/436	0.46	0/597
1	U	0.21	0/466	0.49	0/638
1	V	0.17	0/462	0.48	0/633
1	W	0.22	0/466	0.47	0/638
1	X	0.19	0/454	0.47	0/622
1	Y	0.22	0/422	0.59	0/578
1	Z	0.26	0/437	0.52	0/598
All	All	0.19	0/13220	0.47	4/18100 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	249	PRO	CA-C-N	9.73	140.82	121.93
1	1	249	PRO	C-N-CA	9.73	140.82	121.93
1	L	234	PRO	CA-C-N	9.44	137.76	120.87
1	L	234	PRO	C-N-CA	9.44	137.76	120.87

There are no chirality outliers.

There are no planarity outliers.

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	1	415	80	391	524	0
1	2	434	83	409	460	0
1	3	436	84	411	394	0
1	4	440	85	414	481	0
1	A	431	83	407	453	0
1	B	424	83	399	382	0
1	C	440	85	415	415	0
1	D	435	84	410	452	0
1	E	440	85	414	435	0
1	F	440	85	414	450	0
1	G	414	79	388	425	0
1	H	414	79	388	423	0
1	I	429	84	404	452	0
1	J	440	85	414	517	0
1	K	429	84	404	540	0
1	L	429	84	404	477	0
1	M	419	82	395	466	0
1	N	424	83	399	387	0
1	O	412	81	385	380	0
1	P	387	76	362	415	0
1	Q	407	79	380	367	0
1	R	409	78	386	490	0
1	S	420	82	396	403	0
1	T	422	80	399	439	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	U	451	86	425	468	0
1	V	447	85	422	388	0
1	W	451	86	425	385	0
1	X	440	85	414	432	0
1	Y	409	78	386	602	0
1	Z	424	83	399	553	0
All	All	12812	2476	12059	7217	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 290.

All (7217) 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:225:PRO:HA	1:4:274:GLY:HA3	1.21	1.21
1:X:190:GLY:HA3	1:B:191:LEU:HA	1.22	1.20
1:X:225:PRO:HG3	1:A:219:PRO:HB2	1.24	1.18
1:A:219:PRO:HG2	1:I:253:GLY:HA3	1.20	1.17
1:Y:257:ALA:HB2	1:1:257:ALA:HB1	1.25	1.17
1:E:209:ALA:HA	1:K:226:GLY:HA3	1.25	1.16
1:R:206:LEU:HD12	1:W:218:ALA:HB2	1.26	1.16
1:S:191:LEU:HG	1:T:190:GLY:HA3	1.27	1.16
1:2:206:LEU:HA	1:4:206:LEU:HB3	1.23	1.16
1:L:239:ALA:HA	1:M:238:GLY:HA3	1.27	1.16
1:F:210:PRO:HG3	1:H:209:ALA:HB3	1.21	1.15
1:M:207:GLN:HA	1:N:210:PRO:HA	1.16	1.15
1:G:185:SER:HB3	1:H:185:SER:HA	1.26	1.15
1:U:248:ALA:HB2	1:W:247:GLY:HA3	1.29	1.15
1:C:190:GLY:HA2	1:D:191:LEU:HB3	1.18	1.14
1:C:195:PRO:HB2	1:D:194:ALA:HA	1.16	1.14
1:F:204:PRO:HB3	1:H:206:LEU:HA	1.19	1.14
1:D:206:LEU:HG	1:H:219:PRO:HG3	1.21	1.14
1:G:241:GLY:HA3	1:H:243:PRO:HA	1.28	1.14
1:S:215:SER:HA	1:T:216:GLN:HB2	1.26	1.14
1:A:176:LEU:HD11	1:J:206:LEU:HD11	1.26	1.14
1:D:183:PRO:HA	1:E:184:GLY:HA2	1.23	1.14
1:G:227:ALA:HB3	1:H:230:SER:HA	1.22	1.13
1:L:262:GLY:HA3	1:M:261:GLN:HG3	1.30	1.13
1:O:198:PRO:HA	1:Q:198:PRO:HB2	1.28	1.13
1:P:208:GLY:HA3	1:Q:207:GLN:HA	1.19	1.13
1:L:208:GLY:HA2	1:M:210:PRO:HG3	1.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:258:PRO:HD2	1:N:258:PRO:HG2	1.28	1.13
1:G:216:GLN:HA	1:H:218:ALA:HB3	1.31	1.13
1:L:267:GLN:HB3	1:M:267:GLN:HB3	1.26	1.12
1:S:213:PRO:HB2	1:T:212:ALA:HB3	1.29	1.13
1:U:219:PRO:HG2	1:U:222:GLN:HA	1.20	1.12
1:Z:195:PRO:HD3	1:1:192:GLN:HB3	1.16	1.12
1:2:206:LEU:HG	1:4:206:LEU:HD23	1.32	1.12
1:L:234:PRO:HB2	1:N:234:PRO:HB3	1.25	1.12
1:C:215:SER:HA	1:D:212:ALA:HA	1.29	1.12
1:M:215:SER:HB2	1:N:215:SER:HB3	1.31	1.12
1:Y:226:GLY:HA3	1:1:229:GLY:HA2	1.23	1.11
1:Y:236:LEU:HA	1:Z:240:PRO:HD2	1.21	1.11
1:S:221:LEU:HG	1:T:224:ALA:HB2	1.24	1.11
1:F:249:PRO:HA	1:H:248:ALA:HB1	1.13	1.11
1:R:225:PRO:HA	1:T:228:PRO:HD2	1.31	1.11
1:F:188:ALA:HA	1:H:188:ALA:HB3	1.19	1.11
1:I:206:LEU:HB3	1:K:206:LEU:HD12	1.18	1.11
1:Y:239:ALA:HB1	1:Y:242:ALA:HB3	1.25	1.11
1:X:198:PRO:HA	1:B:198:PRO:HG2	1.31	1.11
1:C:218:ALA:HB1	1:E:219:PRO:HD3	1.31	1.11
1:F:205:GLY:HA3	1:G:206:LEU:HA	1.30	1.11
1:Z:251:LEU:HD23	1:4:261:GLN:HG2	1.26	1.11
1:2:204:PRO:HD2	1:4:204:PRO:HA	1.17	1.11
1:A:220:GLY:HA3	1:B:222:GLN:HA	1.16	1.10
1:Y:233:ALA:HB1	1:1:236:LEU:HD22	1.15	1.10
1:G:197:ALA:HB1	1:H:200:SER:HB2	1.27	1.10
1:L:255:PRO:HG3	1:N:255:PRO:HB2	1.32	1.10
1:R:177:GLN:HA	1:S:177:GLN:HB2	1.22	1.10
1:B:155:SER:HB3	1:4:204:PRO:HB3	1.32	1.10
1:L:229:GLY:HA2	1:M:226:GLY:HA3	1.33	1.10
1:2:250:GLY:HA2	1:3:251:LEU:HG	1.29	1.10
1:A:211:GLY:HA3	1:B:214:GLY:HA2	1.15	1.09
1:1:225:PRO:HA	1:W:214:GLY:HA3	1.24	1.09
1:C:236:LEU:HD22	1:I:255:PRO:HD2	1.34	1.09
1:L:217:GLY:HA2	1:N:216:GLN:HB2	1.24	1.09
1:S:198:PRO:HA	1:T:198:PRO:HD2	1.29	1.09
1:C:187:GLY:HA2	1:D:187:GLY:HA3	1.28	1.09
1:J:228:PRO:HB2	1:1:236:LEU:HD23	1.28	1.09
1:C:180:PRO:HA	1:E:182:ALA:HA	1.27	1.09
1:L:249:PRO:HA	1:M:247:GLY:HA2	1.33	1.09
1:S:200:SER:HB3	1:T:198:PRO:HB2	1.33	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:ALA:HB3	1:B:215:SER:HB3	1.20	1.08
1:S:235:GLY:HA3	1:U:252:GLN:HA	1.14	1.08
1:C:205:GLY:HA2	1:D:206:LEU:HD22	1.26	1.08
1:O:210:PRO:HD3	1:Q:210:PRO:HG2	1.35	1.08
1:D:215:SER:HB3	1:E:215:SER:HB3	1.27	1.08
1:I:231:GLN:HB3	1:Y:236:LEU:HD21	1.29	1.08
1:Z:231:GLN:HB2	1:4:243:PRO:HA	1.30	1.08
1:S:216:GLN:HB2	1:T:217:GLY:HA2	1.25	1.08
1:X:180:PRO:HA	1:B:181:GLY:HA3	1.35	1.07
1:A:222:GLN:HG3	1:4:273:PRO:HB2	1.31	1.07
1:F:229:GLY:HA2	1:G:226:GLY:HA3	1.32	1.07
1:I:236:LEU:HD22	1:K:239:ALA:HB3	1.33	1.07
1:F:202:GLY:HA3	1:H:204:PRO:HD2	1.30	1.07
1:Y:252:GLN:HA	1:1:252:GLN:HB3	1.29	1.07
1:D:221:LEU:HD22	1:J:236:LEU:HB3	1.35	1.07
1:L:233:ALA:HA	1:M:231:GLN:HB3	1.31	1.07
1:O:175:GLY:HA3	1:P:177:GLN:HG3	1.07	1.07
1:P:204:PRO:HD2	1:Q:202:GLY:HA2	1.36	1.07
1:2:229:GLY:HA3	1:3:231:GLN:HG3	1.36	1.07
1:2:255:PRO:HD2	1:4:253:GLY:HA3	1.32	1.07
1:X:217:GLY:HA2	1:B:216:GLN:HB2	1.12	1.07
1:Z:260:SER:HB2	1:S:243:PRO:HD2	1.27	1.07
1:V:207:GLN:HB2	1:W:209:ALA:HA	1.34	1.07
1:A:221:LEU:HB2	1:K:251:LEU:HD12	1.36	1.06
1:G:219:PRO:HA	1:H:220:GLY:HA3	1.12	1.06
1:O:175:GLY:HA2	1:P:176:LEU:HA	1.36	1.06
1:D:211:GLY:HA2	1:E:213:PRO:HD2	1.33	1.06
1:F:218:ALA:HA	1:H:218:ALA:HA	1.30	1.06
1:F:229:GLY:HA3	1:H:228:PRO:HA	1.32	1.06
1:O:219:PRO:HA	1:P:220:GLY:HA2	1.36	1.06
1:Y:228:PRO:HA	1:1:230:SER:HA	1.32	1.06
1:A:210:PRO:HA	1:B:213:PRO:HD2	1.32	1.06
1:I:231:GLN:HA	1:J:232:GLY:HA3	1.32	1.06
1:N:240:PRO:HB2	1:N:243:PRO:HG3	1.37	1.06
1:2:212:ALA:HA	1:3:215:SER:HA	1.08	1.06
1:2:243:PRO:HG2	1:3:243:PRO:HA	1.34	1.06
1:2:263:ALA:HA	1:4:264:PRO:HA	1.36	1.06
1:U:194:ALA:HB2	1:W:194:ALA:HB1	1.30	1.06
1:D:200:SER:HA	1:H:213:PRO:HB3	1.37	1.06
1:I:192:GLN:HB2	1:K:192:GLN:HB2	1.38	1.06
1:Y:251:LEU:HB3	1:U:249:PRO:HD3	1.12	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:188:ALA:HB3	1:V:189:PRO:HD3	1.35	1.06
1:D:202:GLY:HA2	1:F:216:GLN:HG3	1.32	1.05
1:R:234:PRO:HB2	1:S:234:PRO:HB3	1.38	1.05
1:Y:210:PRO:HG2	1:1:213:PRO:HD3	1.33	1.05
1:V:241:GLY:HA2	1:W:243:PRO:HA	1.38	1.05
1:L:222:GLN:HG3	1:M:216:GLN:HB3	1.37	1.05
1:O:214:GLY:HA3	1:Q:219:PRO:HD2	1.35	1.05
1:X:172:GLY:HA3	1:A:171:GLN:HB2	1.37	1.05
1:X:210:PRO:HB3	1:B:212:ALA:HA	1.32	1.05
1:F:202:GLY:HA2	1:H:203:ALA:HA	1.37	1.05
1:C:204:PRO:HD2	1:D:203:ALA:HA	1.32	1.05
1:O:189:PRO:HB3	1:Q:191:LEU:HD12	1.39	1.05
1:P:168:PRO:HD3	1:Q:168:PRO:HA	1.33	1.05
1:Z:204:PRO:HG2	1:1:203:ALA:HA	1.34	1.05
1:R:186:GLN:HA	1:T:185:SER:HA	1.39	1.05
1:Y:252:GLN:HB2	1:1:255:PRO:HG3	1.34	1.04
1:O:207:GLN:HB3	1:P:209:ALA:HA	1.35	1.04
1:Z:233:ALA:HB1	1:W:229:GLY:HA2	1.37	1.04
1:2:239:ALA:HB2	1:4:242:ALA:HB3	1.38	1.04
1:R:221:LEU:HD13	1:U:237:GLN:HA	1.35	1.04
1:S:231:GLN:HB2	1:U:244:GLY:HA2	1.39	1.04
1:Z:259:GLY:HA2	1:S:240:PRO:HB2	1.39	1.04
1:P:210:PRO:HB3	1:Q:210:PRO:HG2	1.34	1.04
1:E:222:GLN:HA	1:J:236:LEU:HD21	1.38	1.03
1:Z:248:ALA:HB1	1:Z:251:LEU:HD22	1.37	1.03
1:2:242:ALA:HB3	1:4:246:GLN:HB2	1.40	1.03
1:O:180:PRO:HA	1:Q:180:PRO:HB3	1.39	1.03
1:L:252:GLN:CB	1:M:253:GLY:HA3	1.88	1.03
1:1:228:PRO:HA	1:V:218:ALA:HB2	1.40	1.03
1:X:206:LEU:HG	1:A:206:LEU:HB2	1.38	1.03
1:B:215:SER:O	1:K:245:SER:OG	1.76	1.02
1:J:258:PRO:HG3	1:L:267:GLN:HG3	1.36	1.02
1:D:192:GLN:HG3	1:H:205:GLY:HA2	1.36	1.02
1:Y:254:ALA:HB2	1:Z:256:GLY:HA3	1.37	1.02
1:U:236:LEU:HG	1:V:237:GLN:HB2	1.41	1.02
1:A:194:ALA:HA	1:B:198:PRO:HG3	1.41	1.02
1:C:195:PRO:HB3	1:E:195:PRO:HB2	1.41	1.02
1:D:221:LEU:HB2	1:J:236:LEU:HD23	1.40	1.02
1:I:252:GLN:HA	1:K:251:LEU:HB2	1.35	1.02
1:L:243:PRO:HB3	1:M:240:PRO:HD2	1.40	1.02
1:O:225:PRO:HG2	1:1:258:PRO:HA	1.36	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:254:ALA:HB2	1:U:249:PRO:HA	1.41	1.02
1:R:230:SER:HB2	1:S:234:PRO:HG3	1.41	1.02
1:R:236:LEU:HB2	1:T:236:LEU:HD21	1.41	1.02
1:G:188:ALA:HA	1:H:189:PRO:HA	1.36	1.02
1:I:243:PRO:HA	1:J:246:GLN:HB3	1.39	1.02
1:R:231:GLN:HB2	1:T:233:ALA:HA	1.37	1.02
1:U:196:GLY:HA3	1:W:198:PRO:HD3	1.37	1.02
1:A:179:ALA:HB3	1:B:180:PRO:HB3	1.37	1.02
1:I:189:PRO:HB2	1:N:201:GLN:HB3	1.35	1.02
1:Z:221:LEU:HA	1:I:221:LEU:HD23	1.40	1.02
1:A:195:PRO:HA	1:J:224:ALA:HB1	1.38	1.01
1:Y:249:PRO:HA	1:W:247:GLY:HA2	1.40	1.01
1:Z:237:GLN:HB3	1:W:230:SER:HA	1.42	1.01
1:F:218:ALA:HB1	1:H:219:PRO:HD3	1.39	1.01
1:C:190:GLY:HA3	1:E:190:GLY:HA2	1.43	1.01
1:L:255:PRO:HD2	1:M:252:GLN:HG3	1.43	1.01
1:I:236:LEU:HB2	1:K:236:LEU:HD11	1.41	1.01
1:C:203:ALA:HA	1:D:204:PRO:HD2	1.40	1.01
1:Y:248:ALA:HA	1:Z:251:LEU:HD21	1.42	1.01
1:R:183:PRO:HA	1:S:183:PRO:HG2	1.42	1.01
1:D:213:PRO:HB3	1:K:231:GLN:HB3	1.01	1.00
1:G:190:GLY:HA3	1:H:191:LEU:HD23	1.39	1.00
1:L:252:GLN:HB2	1:M:253:GLY:CA	1.91	1.00
1:P:213:PRO:HB2	1:Q:216:GLN:HG2	1.40	1.00
1:A:161:LEU:HA	1:B:162:GLN:HB2	1.40	1.00
1:J:251:LEU:HB2	1:K:249:PRO:HG2	1.41	1.00
1:O:164:ALA:HB1	1:Q:164:ALA:HB3	1.43	1.00
1:Z:243:PRO:HD2	1:2:251:LEU:HD22	1.43	1.00
1:R:211:GLY:HA3	1:U:225:PRO:HA	1.42	1.00
1:T:206:LEU:HD22	1:U:219:PRO:HB3	1.40	1.00
1:O:167:ALA:HB3	1:P:169:GLY:HA2	1.41	1.00
1:R:238:GLY:HA3	1:V:255:PRO:HB2	1.40	1.00
1:Z:204:PRO:HB2	1:I:204:PRO:HD3	1.44	1.00
1:I:194:ALA:HB2	1:N:206:LEU:HB3	1.43	1.00
1:J:204:PRO:HD2	1:K:202:GLY:HA2	1.44	1.00
1:C:225:PRO:HD2	1:D:220:GLY:HA3	1.39	1.00
1:S:197:ALA:HB2	1:T:195:PRO:HG2	1.42	1.00
1:C:213:PRO:HA	1:D:209:ALA:HB1	1.41	1.00
1:E:213:PRO:HD3	1:K:228:PRO:HB3	1.43	0.99
1:S:188:ALA:HB3	1:T:189:PRO:HD3	1.41	0.99
1:2:212:ALA:HB1	1:4:216:GLN:HA	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:206:LEU:HD13	1:U:219:PRO:HG3	1.41	0.99
1:M:245:SER:HA	1:N:248:ALA:HA	1.39	0.99
1:P:222:GLN:HA	1:Q:225:PRO:HD2	1.45	0.99
1:Y:210:PRO:HA	1:Z:212:ALA:HB1	1.43	0.99
1:Y:196:GLY:HA3	1:1:197:ALA:HB2	1.44	0.99
1:Z:206:LEU:HD21	1:1:204:PRO:HB2	1.45	0.99
1:X:221:LEU:HB3	1:B:221:LEU:HB2	1.45	0.99
1:C:197:ALA:HA	1:D:196:GLY:HA3	1.42	0.99
1:M:266:LEU:HB3	1:P:230:SER:HB3	1.41	0.99
1:R:214:GLY:HA2	1:T:216:GLN:HA	1.45	0.99
1:Q:215:SER:HB3	1:Q:218:ALA:HB2	1.43	0.98
1:Y:241:GLY:HA2	1:Z:245:SER:HB2	1.41	0.98
1:3:218:ALA:HB2	1:4:219:PRO:HB2	1.44	0.98
1:J:186:GLN:NE2	1:K:185:SER:O	1.96	0.98
1:R:200:SER:HB2	1:U:209:ALA:HA	1.44	0.98
1:D:213:PRO:HB3	1:K:231:GLN:CB	1.93	0.98
1:Y:259:GLY:HA3	1:1:258:PRO:HB2	1.44	0.98
1:F:224:ALA:HB2	1:H:221:LEU:HB3	1.46	0.98
1:C:222:GLN:H	1:E:221:LEU:HB2	1.29	0.98
1:D:231:GLN:HA	1:E:232:GLY:HA3	1.45	0.98
1:Y:190:GLY:HA3	1:1:190:GLY:HA2	1.43	0.98
1:S:191:LEU:HD23	1:T:193:GLY:HA2	1.42	0.98
1:X:192:GLN:HB3	1:B:195:PRO:HA	1.42	0.98
1:O:179:ALA:HB2	1:P:180:PRO:HB2	1.46	0.97
1:3:276:GLN:HB3	1:4:276:GLN:HG2	1.45	0.97
1:X:203:ALA:HB1	1:A:204:PRO:HD2	1.42	0.97
1:Y:248:ALA:HB1	1:1:248:ALA:CB	1.94	0.97
1:R:213:PRO:HB3	1:T:213:PRO:HG2	1.46	0.97
1:Z:203:ALA:HA	1:1:201:GLN:HB3	1.41	0.97
1:I:240:PRO:HG2	1:I:243:PRO:HG2	1.43	0.97
1:F:251:LEU:HD13	1:G:248:ALA:HB1	1.45	0.97
1:Y:251:LEU:HA	1:1:251:LEU:HB2	1.45	0.97
1:B:168:PRO:HD2	1:3:214:GLY:HA3	1.45	0.97
1:D:213:PRO:CB	1:K:231:GLN:HB3	1.95	0.97
1:M:248:ALA:HB3	1:M:249:PRO:HD3	1.45	0.97
1:4:206:LEU:O	1:4:207:GLN:HG2	1.64	0.96
1:X:213:PRO:HG2	1:A:213:PRO:HD3	1.47	0.96
1:I:234:PRO:HB2	1:J:238:GLY:HA2	1.47	0.96
1:P:210:PRO:HG2	1:Q:206:LEU:HB3	1.45	0.96
1:F:227:ALA:HB3	1:H:225:PRO:HA	1.43	0.96
1:L:219:PRO:HG2	1:M:215:SER:HB3	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:240:PRO:HG2	1:G:238:GLY:HA3	1.48	0.96
1:T:228:PRO:HG3	1:U:241:GLY:N	1.81	0.96
1:2:231:GLN:HB3	1:4:233:ALA:HA	1.45	0.96
1:M:263:ALA:HB3	1:M:264:PRO:HD3	1.46	0.95
1:U:249:PRO:HD2	1:U:251:LEU:HD23	1.45	0.95
1:C:198:PRO:HG2	1:D:198:PRO:HA	1.47	0.95
1:C:204:PRO:CD	1:D:203:ALA:HA	1.96	0.95
1:C:192:GLN:HB2	1:E:195:PRO:HD2	1.47	0.95
1:L:238:GLY:HA3	1:M:236:LEU:H	1.27	0.95
1:Z:236:LEU:HB2	1:1:240:PRO:HG2	1.46	0.95
1:S:227:ALA:HB1	1:T:230:SER:HB3	1.47	0.95
1:X:187:GLY:HA2	1:A:189:PRO:HA	1.48	0.95
1:C:210:PRO:HB3	1:D:207:GLN:HB3	1.49	0.95
1:Y:252:GLN:HG3	1:U:249:PRO:CG	1.95	0.95
1:V:221:LEU:HB2	1:W:221:LEU:HD12	1.47	0.95
1:2:210:PRO:HA	1:4:211:GLY:HA3	1.49	0.95
1:U:190:GLY:HA3	1:V:189:PRO:HA	1.47	0.95
1:G:205:GLY:O	1:G:207:GLN:NE2	2.00	0.94
1:L:200:SER:HA	1:N:200:SER:HA	1.45	0.94
1:P:180:PRO:HB3	1:Q:176:LEU:HA	1.44	0.94
1:Y:206:LEU:HB2	1:1:206:LEU:HB3	1.46	0.94
1:Y:254:ALA:HA	1:Z:258:PRO:HD3	1.48	0.94
1:L:221:LEU:HD13	1:N:221:LEU:HA	1.46	0.94
1:Y:250:GLY:HA2	1:Z:253:GLY:HA2	1.48	0.94
1:Z:251:LEU:HD13	1:1:248:ALA:O	1.66	0.94
1:V:185:SER:HB2	1:W:189:PRO:HD3	1.47	0.94
1:Y:195:PRO:HG3	1:1:195:PRO:HG2	1.49	0.94
1:U:182:ALA:HB1	1:U:185:SER:HA	1.45	0.94
1:S:233:ALA:HB3	1:U:251:LEU:HB3	1.47	0.94
1:R:236:LEU:HD23	1:R:237:GLN:HG3	1.50	0.94
1:V:212:ALA:HB3	1:W:213:PRO:HG2	1.50	0.94
1:3:231:GLN:NE2	1:4:230:SER:HG	1.65	0.94
1:S:207:GLN:HG2	1:T:207:GLN:HG3	1.47	0.94
1:A:207:GLN:NE2	1:B:207:GLN:O	1.98	0.94
1:I:213:PRO:HG3	1:K:213:PRO:HD2	1.48	0.94
1:V:236:LEU:HB3	1:W:239:ALA:HB2	1.47	0.94
1:Y:231:GLN:HA	1:Z:232:GLY:N	1.83	0.94
1:C:200:SER:CA	1:E:200:SER:HB2	1.97	0.94
1:I:220:GLY:HA2	1:Y:224:ALA:HA	1.50	0.94
1:3:219:PRO:O	1:4:222:GLN:NE2	1.99	0.94
1:X:200:SER:HA	1:B:199:GLY:CA	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:231:GLN:HB2	1:4:243:PRO:CA	1.98	0.93
1:2:203:ALA:HB3	1:2:206:LEU:HD12	1.49	0.93
1:C:206:LEU:HD23	1:D:206:LEU:HA	1.49	0.93
1:M:205:GLY:HA2	1:N:206:LEU:HD12	1.49	0.93
1:R:221:LEU:HG	1:R:222:GLN:HG2	1.49	0.93
1:A:168:PRO:HB3	1:K:198:PRO:HA	1.50	0.93
1:A:218:ALA:HB2	1:I:248:ALA:HB2	1.50	0.93
1:I:243:PRO:HD3	1:J:245:SER:HA	1.50	0.93
1:U:210:PRO:HB3	1:V:208:GLY:HA3	1.48	0.93
1:C:222:GLN:HG3	1:D:216:GLN:HG3	1.49	0.93
1:P:190:GLY:HA3	1:Q:189:PRO:HG3	1.50	0.93
1:F:221:LEU:HG	1:H:219:PRO:HB2	1.50	0.93
1:R:235:GLY:HA3	1:S:236:LEU:HA	1.50	0.93
1:D:205:GLY:HA3	1:E:206:LEU:CD1	1.99	0.93
1:I:198:PRO:HB2	1:N:209:ALA:HB2	1.51	0.93
1:O:192:GLN:HG2	1:P:194:ALA:HB3	1.50	0.93
1:Y:236:LEU:HA	1:Z:239:ALA:HB1	1.51	0.93
1:I:204:PRO:HG2	1:K:204:PRO:HD3	1.51	0.93
1:J:213:PRO:HB3	1:K:215:SER:HA	1.48	0.93
1:C:200:SER:HA	1:E:200:SER:HB2	1.50	0.93
1:R:221:LEU:HB3	1:U:237:GLN:HB2	1.48	0.93
1:S:180:PRO:HA	1:T:176:LEU:CD2	1.99	0.93
1:I:201:GLN:HB2	1:L:213:PRO:HB2	1.50	0.92
1:L:221:LEU:HB3	1:N:221:LEU:HB2	1.49	0.92
1:Y:216:GLN:HB3	1:Z:217:GLY:HA3	1.49	0.92
1:3:236:LEU:HD12	1:4:237:GLN:HB3	1.49	0.92
1:R:195:PRO:HA	1:S:197:ALA:HA	1.51	0.92
1:F:181:GLY:HA3	1:G:183:PRO:HA	1.52	0.92
1:O:188:ALA:HB3	1:P:189:PRO:HA	1.51	0.92
1:O:189:PRO:HG3	1:Q:188:ALA:HB3	1.49	0.92
1:3:219:PRO:O	1:4:221:LEU:HA	1.70	0.92
1:R:209:ALA:HB3	1:S:212:ALA:HB3	1.48	0.92
1:X:190:GLY:CA	1:B:191:LEU:HA	1.98	0.92
1:E:207:GLN:HA	1:K:224:ALA:HB3	1.52	0.92
1:F:190:GLY:HA3	1:G:191:LEU:HA	1.48	0.92
1:H:237:GLN:HB2	1:H:240:PRO:HG3	1.52	0.92
1:2:260:SER:HB3	1:3:264:PRO:HD3	1.50	0.92
1:R:203:ALA:HB1	1:T:205:GLY:N	1.83	0.92
1:X:210:PRO:HD2	1:B:210:PRO:HA	1.48	0.92
1:A:174:PRO:HD2	1:I:204:PRO:HG3	1.51	0.92
1:S:235:GLY:HA3	1:U:252:GLN:CA	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:237:GLN:HG2	1:E:239:ALA:HB3	1.52	0.92
1:O:217:GLY:HA3	1:P:218:ALA:HA	1.48	0.92
1:Z:236:LEU:HD23	1:1:237:GLN:HG3	1.50	0.92
1:R:225:PRO:HA	1:T:227:ALA:HB1	1.49	0.92
1:M:207:GLN:CA	1:N:210:PRO:HA	2.00	0.92
1:2:227:ALA:O	1:3:231:GLN:NE2	2.02	0.92
1:X:200:SER:O	1:A:200:SER:OG	1.88	0.92
1:X:221:LEU:HA	1:A:216:GLN:HG3	1.51	0.92
1:O:231:GLN:HA	1:P:231:GLN:HA	1.50	0.92
1:Z:251:LEU:HD12	1:1:250:GLY:HA2	1.51	0.92
1:S:183:PRO:HB2	1:S:186:GLN:NE2	1.85	0.92
1:A:174:PRO:HD3	1:J:203:ALA:HB3	1.48	0.92
1:O:173:ALA:HB3	1:P:174:PRO:HA	1.52	0.92
1:D:195:PRO:HD3	1:H:206:LEU:HD22	1.52	0.91
1:4:210:PRO:HG2	1:4:213:PRO:HG3	1.53	0.91
1:V:192:GLN:HB3	1:W:191:LEU:HB2	1.52	0.91
1:X:212:ALA:HB3	1:B:213:PRO:HG2	1.51	0.91
1:S:187:GLY:HA3	1:T:187:GLY:HA2	1.53	0.91
1:U:239:ALA:HB3	1:U:240:PRO:HD3	1.51	0.91
1:C:220:GLY:H	1:E:218:ALA:HB1	1.36	0.91
1:E:209:ALA:CA	1:K:226:GLY:HA3	2.00	0.91
1:Z:257:ALA:HB1	1:W:251:LEU:O	1.71	0.91
1:I:240:PRO:HD2	1:I:243:PRO:HB2	1.53	0.91
1:Y:229:GLY:HA3	1:Z:231:GLN:CG	1.99	0.91
1:A:207:GLN:HB3	1:B:206:LEU:HD12	1.52	0.91
1:Y:251:LEU:HD22	1:U:251:LEU:HD21	1.50	0.91
1:E:219:PRO:HB3	1:J:234:PRO:HB2	1.49	0.91
1:F:180:PRO:HG2	1:H:183:PRO:HD3	1.53	0.91
1:X:195:PRO:HB3	1:B:198:PRO:HG3	1.49	0.91
1:A:156:GLN:HG2	1:2:204:PRO:HB3	1.51	0.91
1:O:171:GLN:HA	1:P:173:ALA:HB3	1.50	0.91
1:Y:251:LEU:HD23	1:Y:252:GLN:H	1.36	0.91
1:X:171:GLN:HB3	1:B:174:PRO:HB3	1.48	0.91
1:2:223:GLY:HA3	1:3:225:PRO:HA	1.52	0.91
1:R:230:SER:HB3	1:R:234:PRO:HG2	1.52	0.91
1:X:216:GLN:HA	1:A:212:ALA:O	1.70	0.91
1:F:218:ALA:CA	1:H:218:ALA:HA	2.01	0.91
1:G:207:GLN:HG2	1:H:206:LEU:HD12	1.52	0.91
1:M:207:GLN:HA	1:N:210:PRO:CA	2.01	0.91
1:2:206:LEU:O	1:4:207:GLN:HB3	1.71	0.91
1:2:270:PRO:HB2	1:2:273:PRO:HG3	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:232:GLY:HA3	1:T:235:GLY:HA2	1.50	0.91
1:B:219:PRO:HG3	1:K:250:GLY:HA3	1.51	0.90
1:2:250:GLY:HA3	1:4:250:GLY:HA3	1.51	0.90
1:S:221:LEU:HB2	1:T:221:LEU:HD13	1.50	0.90
1:B:188:ALA:HB1	1:B:189:PRO:HD2	1.52	0.90
1:Y:253:GLY:HA2	1:Z:255:PRO:HD2	1.54	0.90
1:S:198:PRO:HA	1:T:198:PRO:CD	2.01	0.90
1:V:231:GLN:HG2	1:W:232:GLY:O	1.71	0.90
1:X:221:LEU:HD12	1:B:220:GLY:HA2	1.51	0.90
1:X:197:ALA:HB3	1:B:200:SER:HB2	1.53	0.90
1:2:264:PRO:HA	1:3:265:GLY:HA3	1.51	0.90
1:R:189:PRO:HD3	1:T:186:GLN:HB3	1.53	0.90
1:G:182:ALA:HB3	1:H:182:ALA:HB1	1.53	0.90
1:Z:206:LEU:HD23	1:1:207:GLN:HG3	1.52	0.90
1:A:194:ALA:H	1:B:195:PRO:HG2	1.34	0.90
1:G:213:PRO:HD2	1:H:214:GLY:HA3	1.54	0.90
1:J:218:ALA:HB1	1:J:219:PRO:HD2	1.54	0.90
1:Z:256:GLY:O	1:2:267:GLN:HG3	1.71	0.90
1:E:213:PRO:HG2	1:K:231:GLN:HG2	1.52	0.90
1:3:207:GLN:HB2	1:4:208:GLY:HA2	1.52	0.90
1:3:227:ALA:O	1:4:230:SER:N	2.04	0.90
1:L:215:SER:O	1:L:219:PRO:HG3	1.72	0.90
1:Y:246:GLN:HG3	1:4:259:GLY:HA3	1.53	0.90
1:Y:252:GLN:HB2	1:1:255:PRO:CG	2.01	0.90
1:2:231:GLN:HA	1:3:231:GLN:C	1.96	0.90
1:W:251:LEU:HB3	1:W:255:PRO:HG3	1.52	0.90
1:P:221:LEU:HG	1:Q:224:ALA:HB2	1.52	0.90
1:3:209:ALA:N	1:4:210:PRO:HB3	1.87	0.90
1:X:200:SER:HA	1:B:199:GLY:HA3	1.53	0.89
1:P:208:GLY:HA3	1:Q:207:GLN:CA	2.02	0.89
1:U:198:PRO:HG2	1:V:198:PRO:HG3	1.54	0.89
1:I:195:PRO:HA	1:J:198:PRO:HG2	1.53	0.89
1:R:219:PRO:HB3	1:S:221:LEU:HB3	1.55	0.89
1:G:215:SER:O	1:H:217:GLY:HA2	1.72	0.89
1:I:192:GLN:NE2	1:N:204:PRO:O	2.06	0.89
1:I:225:PRO:HD3	1:1:232:GLY:O	1.72	0.89
1:R:235:GLY:HA2	1:T:240:PRO:CD	2.03	0.89
1:Y:228:PRO:HB3	1:V:221:LEU:HD22	1.54	0.89
1:R:177:GLN:CA	1:S:177:GLN:HB2	2.01	0.89
1:R:219:PRO:HD2	1:U:234:PRO:HD3	1.54	0.89
1:E:194:ALA:HB3	1:E:195:PRO:HD3	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:229:GLY:HA3	1:H:228:PRO:CA	2.02	0.89
1:F:244:GLY:HA2	1:G:246:GLN:HG2	1.51	0.89
1:O:169:GLY:HA3	1:P:168:PRO:HG2	1.53	0.89
1:I:187:GLY:HA3	1:K:187:GLY:HA2	1.52	0.89
1:O:198:PRO:CA	1:Q:198:PRO:HB2	2.03	0.89
1:U:183:PRO:HA	1:V:183:PRO:HD2	1.55	0.89
1:U:197:ALA:HA	1:V:197:ALA:O	1.73	0.89
1:L:230:SER:HA	1:M:228:PRO:HA	1.54	0.89
1:O:219:PRO:CA	1:P:220:GLY:HA2	2.02	0.89
1:R:222:GLN:C	1:T:227:ALA:HB2	1.98	0.89
1:X:173:ALA:HB3	1:B:174:PRO:HB2	1.55	0.89
1:I:207:GLN:HA	1:J:210:PRO:HB3	1.55	0.89
1:K:254:ALA:HB2	1:L:266:LEU:HD13	1.55	0.89
1:L:255:PRO:CG	1:N:255:PRO:HB2	2.02	0.89
1:Y:252:GLN:O	1:U:249:PRO:HB3	1.72	0.89
1:4:210:PRO:O	1:4:213:PRO:HD3	1.72	0.89
1:U:212:ALA:HB1	1:V:213:PRO:HG3	1.55	0.89
1:L:204:PRO:HB3	1:N:205:GLY:O	1.73	0.88
1:D:212:ALA:HB3	1:E:214:GLY:N	1.87	0.88
1:I:185:SER:HB2	1:J:189:PRO:HD3	1.53	0.88
1:P:203:ALA:HB1	1:Q:202:GLY:O	1.71	0.88
1:Q:191:LEU:HB3	1:Z:221:LEU:HD21	1.54	0.88
1:3:236:LEU:HA	1:4:237:GLN:HB2	1.54	0.88
1:T:212:ALA:HB1	1:T:216:GLN:HB3	1.55	0.88
1:I:224:ALA:HA	1:1:233:ALA:O	1.73	0.88
1:J:237:GLN:HA	1:K:239:ALA:HB2	1.55	0.88
1:R:180:PRO:HG3	1:S:180:PRO:HG2	1.54	0.88
1:X:222:GLN:O	1:B:221:LEU:HB3	1.72	0.88
1:A:159:PRO:HB2	1:3:210:PRO:HA	1.53	0.88
1:C:228:PRO:HG3	1:F:236:LEU:HD21	1.53	0.88
1:Y:243:PRO:HA	1:Z:243:PRO:HB2	1.54	0.88
1:C:189:PRO:HB2	1:E:192:GLN:HB2	1.54	0.88
1:F:215:SER:OG	1:G:212:ALA:O	1.92	0.88
1:P:177:GLN:HA	1:Q:175:GLY:HA2	1.54	0.88
1:2:263:ALA:HB2	1:4:263:ALA:HB1	1.53	0.88
1:R:181:GLY:HA3	1:S:182:ALA:HB2	1.56	0.88
1:E:171:GLN:HB3	1:K:186:GLN:HA	1.53	0.88
1:F:177:GLN:HA	1:H:180:PRO:HA	1.54	0.88
1:S:231:GLN:CB	1:U:244:GLY:HA2	2.03	0.88
1:Y:227:ALA:C	1:1:230:SER:HB2	1.99	0.88
1:Y:250:GLY:HA3	1:Z:251:LEU:HD12	1.51	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:219:PRO:HG3	1:T:222:GLN:C	1.98	0.88
1:W:209:ALA:HB1	1:W:210:PRO:HD2	1.53	0.88
1:C:179:ALA:HB1	1:E:181:GLY:HA2	1.56	0.88
1:D:192:GLN:CG	1:H:205:GLY:HA2	2.02	0.88
1:J:246:GLN:HA	1:K:246:GLN:HA	1.56	0.88
1:X:191:LEU:N	1:B:192:GLN:OE1	2.07	0.88
1:B:172:GLY:C	1:3:219:PRO:HA	1.98	0.88
1:I:191:LEU:HD11	1:N:204:PRO:HD3	1.55	0.88
1:O:210:PRO:HB2	1:Q:212:ALA:HA	1.53	0.88
1:Y:241:GLY:N	1:1:242:ALA:O	2.07	0.88
1:X:221:LEU:CB	1:B:221:LEU:HB2	2.04	0.88
1:L:257:ALA:CA	1:M:258:PRO:HD2	2.04	0.88
1:Z:223:GLY:HA2	1:1:224:ALA:HB2	1.56	0.88
1:3:246:GLN:NE2	1:4:247:GLY:O	2.07	0.88
1:L:257:ALA:HB3	1:L:258:PRO:HD3	1.55	0.87
1:O:178:GLY:CA	1:P:180:PRO:HD2	2.04	0.87
1:3:209:ALA:HB3	1:3:213:PRO:HA	1.55	0.87
1:V:226:GLY:C	1:W:227:ALA:HB1	1.99	0.87
1:X:174:PRO:HG2	1:B:177:GLN:HB3	1.55	0.87
1:K:255:PRO:HA	1:L:268:GLY:HA3	1.55	0.87
1:L:226:GLY:HA3	1:N:224:ALA:N	1.90	0.87
1:P:180:PRO:HB3	1:Q:176:LEU:HD12	1.54	0.87
1:2:212:ALA:CA	1:3:215:SER:HA	2.01	0.87
1:T:234:PRO:HB3	1:T:237:GLN:HB3	1.56	0.87
1:C:190:GLY:CA	1:D:191:LEU:HB3	2.04	0.87
1:D:187:GLY:HA2	1:E:189:PRO:HB3	1.54	0.87
1:M:224:ALA:N	1:N:225:PRO:HA	1.88	0.87
1:Q:227:ALA:HB1	1:Q:228:PRO:HD2	1.55	0.87
1:C:185:SER:OG	1:E:184:GLY:O	1.93	0.87
1:P:219:PRO:HA	1:Q:221:LEU:HA	1.55	0.87
1:Y:243:PRO:HB2	1:4:257:ALA:HB1	1.54	0.87
1:3:251:LEU:HD22	1:3:255:PRO:HB3	1.56	0.87
1:I:226:GLY:HA3	1:J:228:PRO:HA	1.54	0.87
1:Z:232:GLY:HA2	1:4:245:SER:HB3	1.55	0.87
1:X:167:ALA:HB1	1:A:169:GLY:HA3	1.55	0.87
1:X:206:LEU:HD13	1:E:219:PRO:HG2	1.54	0.87
1:C:222:GLN:HB2	1:D:219:PRO:HA	1.56	0.87
1:D:218:ALA:HB3	1:E:220:GLY:HA3	1.56	0.87
1:O:216:GLN:HA	1:P:219:PRO:HD2	1.55	0.87
1:S:195:PRO:HG2	1:T:195:PRO:HG3	1.54	0.87
1:S:216:GLN:N	1:T:216:GLN:O	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:228:PRO:HB2	1:W:231:GLN:OE1	1.73	0.87
1:X:195:PRO:HG3	1:A:193:GLY:O	1.75	0.87
1:C:202:GLY:HA3	1:D:201:GLN:HA	1.57	0.87
1:2:264:PRO:HB2	1:4:266:LEU:HD21	1.55	0.87
1:F:183:PRO:HA	1:G:184:GLY:HA3	1.54	0.87
1:F:201:GLN:HA	1:G:201:GLN:C	1.99	0.87
1:F:202:GLY:HA2	1:G:204:PRO:HG3	1.57	0.87
1:F:249:PRO:HB3	1:H:249:PRO:HD2	1.54	0.87
1:I:229:GLY:HA3	1:K:230:SER:HA	1.56	0.87
1:J:228:PRO:HB2	1:1:236:LEU:CD2	2.03	0.87
1:O:212:ALA:N	1:Q:213:PRO:HD2	1.90	0.87
1:P:222:GLN:HG3	1:Q:225:PRO:HD2	1.54	0.87
1:D:182:ALA:HA	1:E:182:ALA:HB3	1.57	0.86
1:O:186:GLN:HA	1:Q:185:SER:HA	1.56	0.86
1:O:204:PRO:O	1:Q:204:PRO:HG3	1.74	0.86
1:P:180:PRO:CB	1:Q:176:LEU:HA	2.05	0.86
1:Y:252:GLN:HA	1:1:252:GLN:CB	2.03	0.86
1:Y:252:GLN:CA	1:1:252:GLN:HB3	2.04	0.86
1:2:253:GLY:HA3	1:4:253:GLY:HA2	1.56	0.86
1:B:219:PRO:HB3	1:K:251:LEU:HD22	1.56	0.86
1:C:178:GLY:HA2	1:D:177:GLN:HA	1.56	0.86
1:C:197:ALA:HA	1:D:196:GLY:CA	2.06	0.86
1:L:204:PRO:HD3	1:N:205:GLY:HA3	1.57	0.86
1:2:213:PRO:HA	1:4:214:GLY:HA3	1.57	0.86
1:F:205:GLY:CA	1:G:206:LEU:HD13	2.06	0.86
1:L:255:PRO:O	1:M:252:GLN:NE2	2.08	0.86
1:Y:246:GLN:HG3	1:4:259:GLY:CA	2.04	0.86
1:2:207:GLN:HA	1:4:207:GLN:HA	1.55	0.86
1:R:193:GLY:HA2	1:W:204:PRO:HG3	1.56	0.86
1:D:200:SER:CA	1:H:213:PRO:HB3	2.04	0.86
1:F:195:PRO:HB2	1:G:196:GLY:CA	2.06	0.86
1:P:219:PRO:HA	1:Q:221:LEU:CA	2.05	0.86
1:Y:229:GLY:HA3	1:Z:231:GLN:HG3	1.57	0.86
1:Y:248:ALA:HB1	1:1:248:ALA:HB2	1.57	0.86
1:V:190:GLY:HA3	1:W:190:GLY:HA2	1.57	0.86
1:C:233:ALA:HB1	1:D:231:GLN:HB3	1.57	0.86
1:I:231:GLN:HB3	1:Y:236:LEU:CD2	2.04	0.86
1:J:250:GLY:HA2	1:K:248:ALA:HB1	1.56	0.86
1:L:212:ALA:O	1:L:216:GLN:HB2	1.75	0.86
1:R:217:GLY:H	1:S:218:ALA:HB3	1.40	0.86
1:C:215:SER:CA	1:D:212:ALA:HA	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:240:PRO:O	1:M:239:ALA:HB2	1.74	0.86
1:2:246:GLN:HB2	1:4:245:SER:O	1.75	0.86
1:U:219:PRO:CG	1:U:222:GLN:HA	2.04	0.86
1:L:252:GLN:HB2	1:M:253:GLY:HA3	0.94	0.86
1:M:233:ALA:HB1	1:M:234:PRO:HD2	1.57	0.86
1:P:222:GLN:OE1	1:Q:222:GLN:NE2	2.09	0.86
1:A:156:GLN:N	1:B:158:ALA:O	2.08	0.86
1:F:225:PRO:HG2	1:H:223:GLY:HA2	1.58	0.86
1:G:237:GLN:HA	1:H:239:ALA:O	1.75	0.86
1:O:216:GLN:OE1	1:P:219:PRO:HB2	1.76	0.86
1:Z:198:PRO:HB2	1:1:198:PRO:HG3	1.57	0.86
1:F:191:LEU:HB2	1:G:192:GLN:HB2	1.57	0.85
1:F:219:PRO:HD2	1:H:218:ALA:HB2	1.58	0.85
1:O:222:GLN:HG3	1:P:226:GLY:HA3	1.55	0.85
1:2:263:ALA:HA	1:4:264:PRO:CA	2.06	0.85
1:H:206:LEU:HD11	1:H:209:ALA:HA	1.58	0.85
1:Z:251:LEU:HD23	1:4:261:GLN:CG	2.04	0.85
1:2:215:SER:N	1:3:217:GLY:HA2	1.90	0.85
1:R:217:GLY:C	1:U:233:ALA:HB3	2.00	0.85
1:W:248:ALA:HB3	1:W:249:PRO:HD3	1.59	0.85
1:X:162:GLN:NE2	1:J:193:GLY:O	2.09	0.85
1:C:198:PRO:HG3	1:E:199:GLY:N	1.91	0.85
1:Y:210:PRO:HG2	1:1:213:PRO:CD	2.07	0.85
1:R:195:PRO:HA	1:S:197:ALA:CA	2.06	0.85
1:R:234:PRO:CB	1:S:234:PRO:HB3	2.06	0.85
1:P:203:ALA:HB3	1:P:206:LEU:HB2	1.59	0.85
1:3:213:PRO:HD3	1:4:211:GLY:HA3	1.59	0.85
1:R:226:GLY:N	1:S:227:ALA:O	2.09	0.85
1:X:161:LEU:HD22	1:A:164:ALA:HB1	1.57	0.85
1:D:176:LEU:HD11	1:H:188:ALA:HA	1.58	0.85
1:L:244:GLY:HA3	1:M:242:ALA:CA	2.06	0.85
1:O:207:GLN:NE2	1:P:207:GLN:HA	1.92	0.85
1:Y:238:GLY:HA2	1:V:233:ALA:HB1	1.57	0.85
1:3:224:ALA:N	1:4:225:PRO:O	2.09	0.85
1:3:236:LEU:HA	1:4:237:GLN:CB	2.05	0.85
1:S:200:SER:HB3	1:T:198:PRO:CB	2.06	0.85
1:C:195:PRO:HA	1:E:196:GLY:HA2	1.58	0.85
1:C:222:GLN:HG2	1:D:217:GLY:C	2.02	0.85
1:Y:248:ALA:CA	1:Z:251:LEU:HD21	2.06	0.85
1:X:158:ALA:HB2	1:B:161:LEU:HB3	1.59	0.85
1:D:186:GLN:HA	1:E:185:SER:HB2	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:196:GLY:O	1:H:197:ALA:HA	1.76	0.85
1:P:197:ALA:O	1:Q:198:PRO:HG3	1.77	0.85
1:2:216:GLN:NE2	1:4:222:GLN:OE1	2.09	0.85
1:4:260:SER:O	1:4:261:GLN:HG3	1.76	0.85
1:S:215:SER:HA	1:T:216:GLN:CB	2.05	0.85
1:F:218:ALA:HA	1:H:218:ALA:CA	2.06	0.85
1:G:186:GLN:O	1:H:189:PRO:HD3	1.77	0.85
1:L:234:PRO:HD2	1:M:231:GLN:N	1.92	0.85
1:O:224:ALA:HB3	1:P:228:PRO:HG3	1.58	0.85
1:V:205:GLY:CA	1:W:206:LEU:HD13	2.06	0.85
1:C:192:GLN:HB3	1:E:193:GLY:HA2	1.59	0.85
1:L:216:GLN:O	1:N:216:GLN:N	2.10	0.85
1:I:231:GLN:HA	1:J:232:GLY:CA	2.07	0.85
1:J:192:GLN:HG2	1:K:189:PRO:HB2	1.57	0.85
1:Y:204:PRO:HB2	1:1:204:PRO:HB3	1.59	0.85
1:Y:228:PRO:HA	1:1:230:SER:CA	2.06	0.85
1:Z:210:PRO:HA	1:1:210:PRO:HD2	1.56	0.85
1:S:180:PRO:HB3	1:T:180:PRO:HA	1.59	0.85
1:X:200:SER:HB3	1:A:201:GLN:OE1	1.77	0.84
1:C:203:ALA:HB1	1:E:206:LEU:HD23	1.59	0.84
1:F:221:LEU:HB2	1:H:221:LEU:HD12	1.56	0.84
1:F:242:ALA:HA	1:G:240:PRO:HD3	1.57	0.84
1:Y:216:GLN:HB2	1:Z:219:PRO:HG3	1.57	0.84
1:Y:248:ALA:N	1:W:243:PRO:O	2.09	0.84
1:V:192:GLN:HA	1:W:191:LEU:HD13	1.59	0.84
1:X:203:ALA:CB	1:A:204:PRO:HD2	2.06	0.84
1:C:228:PRO:HD2	1:D:225:PRO:HA	1.58	0.84
1:I:211:GLY:N	1:K:212:ALA:HB3	1.92	0.84
1:J:236:LEU:HA	1:K:237:GLN:HB3	1.58	0.84
1:U:191:LEU:N	1:W:192:GLN:OE1	2.09	0.84
1:U:252:GLN:CB	1:V:248:ALA:HA	2.06	0.84
1:V:188:ALA:CB	1:V:189:PRO:HD3	2.06	0.84
1:X:176:LEU:HA	1:B:178:GLY:CA	2.08	0.84
1:C:210:PRO:HD3	1:E:208:GLY:HA3	1.60	0.84
1:F:229:GLY:HA2	1:G:226:GLY:CA	2.07	0.84
1:I:242:ALA:HB3	1:J:245:SER:HA	1.56	0.84
1:R:182:ALA:O	1:S:184:GLY:N	2.10	0.84
1:R:186:GLN:HA	1:T:185:SER:CA	2.07	0.84
1:R:208:GLY:HA3	1:T:209:ALA:N	1.92	0.84
1:C:233:ALA:CB	1:D:231:GLN:HB3	2.06	0.84
1:J:206:LEU:HB2	1:K:204:PRO:HG3	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:191:LEU:HA	1:T:190:GLY:N	1.91	0.84
1:C:225:PRO:HB2	1:D:222:GLN:OE1	1.78	0.84
1:I:206:LEU:CB	1:K:206:LEU:HD12	2.07	0.84
1:O:207:GLN:NE2	1:Q:204:PRO:HG2	1.92	0.84
1:S:233:ALA:CB	1:U:251:LEU:HB3	2.08	0.84
1:F:203:ALA:O	1:G:203:ALA:HA	1.77	0.84
1:U:184:GLY:O	1:W:186:GLN:HG2	1.77	0.84
1:C:198:PRO:HA	1:I:213:PRO:HB3	1.58	0.84
1:L:226:GLY:N	1:M:222:GLN:OE1	2.11	0.84
1:2:245:SER:HB2	1:4:248:ALA:HB2	1.58	0.84
1:2:255:PRO:HD2	1:4:253:GLY:CA	2.07	0.84
1:2:270:PRO:HA	1:4:269:ALA:HB3	1.58	0.84
1:3:257:ALA:HA	1:4:256:GLY:HA2	1.58	0.84
1:R:217:GLY:O	1:T:222:GLN:NE2	2.11	0.84
1:C:174:PRO:HD2	1:D:175:GLY:HA3	1.58	0.84
1:I:208:GLY:HA3	1:J:212:ALA:HB2	1.58	0.84
1:2:212:ALA:HA	1:3:215:SER:CA	2.03	0.84
1:2:214:GLY:HA3	1:4:219:PRO:CG	2.08	0.84
1:D:206:LEU:CG	1:H:219:PRO:HG3	2.05	0.84
1:F:228:PRO:HG2	1:G:225:PRO:HA	1.59	0.84
1:2:204:PRO:HD2	1:4:204:PRO:CA	2.06	0.84
1:2:229:GLY:CA	1:3:231:GLN:HG3	2.07	0.84
1:S:207:GLN:HE22	1:T:204:PRO:HB2	1.43	0.84
1:I:236:LEU:O	1:J:237:GLN:NE2	2.10	0.83
1:X:158:ALA:HB3	1:B:161:LEU:HD22	1.61	0.83
1:X:189:PRO:HA	1:X:191:LEU:HD23	1.59	0.83
1:C:183:PRO:HD2	1:H:194:ALA:HB3	1.58	0.83
1:D:231:GLN:N	1:E:230:SER:O	2.09	0.83
1:F:192:GLN:HA	1:H:192:GLN:C	2.03	0.83
1:O:176:LEU:HD11	1:P:178:GLY:HA2	1.58	0.83
1:R:211:GLY:HA2	1:T:211:GLY:C	2.03	0.83
1:S:207:GLN:HB2	1:T:207:GLN:HA	1.59	0.83
1:X:177:GLN:NE2	1:B:177:GLN:OE1	2.10	0.83
1:C:178:GLY:CA	1:D:177:GLN:HA	2.08	0.83
1:O:194:ALA:HB1	1:S:209:ALA:HA	1.60	0.83
1:U:212:ALA:HA	1:V:210:PRO:HB3	1.58	0.83
1:C:222:GLN:NE2	1:D:216:GLN:OE1	2.11	0.83
1:K:228:PRO:HB2	1:K:231:GLN:HE21	1.40	0.83
1:L:264:PRO:HD2	1:N:265:GLY:HA3	1.60	0.83
1:2:214:GLY:HA3	1:4:219:PRO:HG2	1.58	0.83
1:U:244:GLY:HA3	1:V:246:GLN:HG3	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:221:LEU:HD13	1:A:216:GLN:HG3	1.58	0.83
1:L:255:PRO:HA	1:N:257:ALA:N	1.93	0.83
1:P:167:ALA:HA	1:Q:168:PRO:HA	1.60	0.83
1:P:198:PRO:HB3	1:Q:196:GLY:O	1.78	0.83
1:2:215:SER:O	1:3:218:ALA:N	2.11	0.83
1:D:195:PRO:HA	1:H:210:PRO:HD2	1.61	0.83
1:F:239:ALA:HB2	1:G:236:LEU:HB3	1.61	0.83
1:I:196:GLY:HA3	1:K:197:ALA:HA	1.59	0.83
1:Y:233:ALA:CB	1:1:236:LEU:HD22	2.05	0.83
1:R:228:PRO:HD2	1:U:243:PRO:HG3	1.57	0.83
1:U:199:GLY:O	1:U:200:SER:OG	1.96	0.83
1:F:230:SER:HB2	1:H:230:SER:N	1.92	0.83
1:I:220:GLY:CA	1:Y:224:ALA:HA	2.08	0.83
1:L:245:SER:O	1:M:246:GLN:NE2	2.11	0.83
1:M:220:GLY:HA2	1:O:183:PRO:HB2	1.59	0.83
1:Y:195:PRO:HB3	1:1:195:PRO:HB2	1.61	0.83
1:Z:239:ALA:HB1	1:Z:240:PRO:HD2	1.61	0.83
1:2:244:GLY:HA2	1:3:244:GLY:HA2	1.58	0.83
1:X:219:PRO:HD3	1:A:214:GLY:HA3	1.61	0.83
1:A:165:PRO:HG2	1:B:168:PRO:HB3	1.61	0.83
1:C:200:SER:OG	1:D:201:GLN:NE2	2.11	0.83
1:L:266:LEU:HD22	1:M:266:LEU:HD23	1.58	0.83
1:Z:237:GLN:HB3	1:W:230:SER:CA	2.08	0.83
1:R:217:GLY:N	1:S:218:ALA:HB3	1.93	0.83
1:R:226:GLY:O	1:T:230:SER:N	2.11	0.83
1:S:197:ALA:O	1:T:197:ALA:HA	1.77	0.83
1:F:207:GLN:N	1:G:207:GLN:OE1	2.11	0.83
1:F:215:SER:HB2	1:G:215:SER:N	1.94	0.83
1:O:180:PRO:HA	1:Q:180:PRO:CB	2.09	0.83
1:A:221:LEU:HB2	1:K:251:LEU:CD1	2.08	0.83
1:C:206:LEU:HD23	1:D:206:LEU:CA	2.09	0.83
1:F:183:PRO:HB3	1:H:183:PRO:HB3	1.61	0.83
1:L:249:PRO:CA	1:M:247:GLY:HA2	2.08	0.83
1:R:235:GLY:CA	1:S:236:LEU:HA	2.09	0.83
1:U:199:GLY:H	1:V:198:PRO:HA	1.43	0.83
1:U:210:PRO:HA	1:V:209:ALA:C	2.03	0.83
1:X:210:PRO:CB	1:B:212:ALA:HA	2.09	0.82
1:G:195:PRO:HB2	1:H:198:PRO:HG3	1.60	0.82
1:I:191:LEU:HA	1:K:191:LEU:HD22	1.61	0.82
1:J:195:PRO:HD2	1:K:195:PRO:HB3	1.60	0.82
1:K:192:GLN:HB3	1:K:195:PRO:HG2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:LEU:HD22	1:M:233:ALA:HB3	1.60	0.82
1:Y:213:PRO:HB3	1:W:206:LEU:HD22	1.59	0.82
1:Y:244:GLY:HA3	1:V:236:LEU:CB	2.09	0.82
1:Y:250:GLY:HA2	1:Z:253:GLY:CA	2.07	0.82
1:2:231:GLN:HB3	1:4:233:ALA:CA	2.09	0.82
1:3:234:PRO:HB3	1:4:234:PRO:HB2	1.61	0.82
1:C:179:ALA:HA	1:D:180:PRO:HA	1.61	0.82
1:L:251:LEU:H	1:M:250:GLY:HA3	1.43	0.82
1:2:219:PRO:HB2	1:4:224:ALA:HA	1.62	0.82
1:R:227:ALA:HA	1:T:228:PRO:HB2	1.62	0.82
1:X:185:SER:HA	1:B:187:GLY:HA3	1.61	0.82
1:Y:201:GLN:HG2	1:1:200:SER:HB3	1.62	0.82
1:Y:213:PRO:HG3	1:V:204:PRO:HB2	1.62	0.82
1:Z:233:ALA:HB1	1:W:229:GLY:CA	2.09	0.82
1:S:223:GLY:HA2	1:T:224:ALA:HB1	1.58	0.82
1:U:207:GLN:C	1:W:207:GLN:HB2	2.04	0.82
1:C:236:LEU:HB2	1:I:254:ALA:CB	2.09	0.82
1:E:210:PRO:HD2	1:K:226:GLY:N	1.93	0.82
1:M:207:GLN:NE2	1:N:206:LEU:HA	1.94	0.82
1:P:228:PRO:HD2	1:Q:230:SER:H	1.43	0.82
1:Y:207:GLN:NE2	1:Z:208:GLY:O	2.12	0.82
1:2:255:PRO:HB2	1:4:254:ALA:HA	1.61	0.82
1:3:240:PRO:HB2	1:3:243:PRO:HG3	1.61	0.82
1:F:227:ALA:N	1:H:224:ALA:O	2.12	0.82
1:F:236:LEU:HG	1:G:236:LEU:HD12	1.59	0.82
1:Z:221:LEU:HA	1:1:221:LEU:CD2	2.10	0.82
1:Z:251:LEU:HA	1:1:250:GLY:CA	2.08	0.82
1:I:231:GLN:OE1	1:Y:236:LEU:HD11	1.79	0.82
1:L:202:GLY:N	1:M:202:GLY:O	2.11	0.82
1:Y:232:GLY:HA3	1:Z:234:PRO:HD3	1.60	0.82
1:U:204:PRO:O	1:U:207:GLN:NE2	2.12	0.82
1:L:258:PRO:CD	1:N:258:PRO:HG2	2.07	0.82
1:R:235:GLY:HA2	1:T:240:PRO:HD3	1.62	0.82
1:F:180:PRO:CG	1:H:183:PRO:HD3	2.09	0.82
1:L:244:GLY:HA3	1:M:242:ALA:HA	1.60	0.82
1:M:215:SER:HB2	1:N:215:SER:CB	2.09	0.82
1:O:177:GLN:HB3	1:Q:178:GLY:HA2	1.62	0.82
1:2:232:GLY:HA2	1:4:234:PRO:O	1.80	0.82
1:S:187:GLY:CA	1:T:187:GLY:HA2	2.09	0.82
1:X:176:LEU:HA	1:B:178:GLY:HA2	1.60	0.82
1:L:257:ALA:HA	1:M:258:PRO:HD2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:260:SER:HB2	1:M:258:PRO:HA	1.62	0.82
1:O:210:PRO:HB2	1:Q:213:PRO:HD3	1.60	0.82
1:R:216:GLN:HG3	1:T:219:PRO:HB2	1.62	0.82
1:X:195:PRO:HA	1:B:195:PRO:HD2	1.62	0.82
1:L:249:PRO:HB2	1:N:252:GLN:HB3	1.59	0.82
1:L:264:PRO:CD	1:M:261:GLN:HB3	2.10	0.82
1:M:263:ALA:HB2	1:N:265:GLY:HA2	1.60	0.82
1:S:231:GLN:NE2	1:S:234:PRO:HD3	1.95	0.82
1:C:213:PRO:O	1:D:212:ALA:HB2	1.79	0.81
1:L:231:GLN:OE1	1:M:229:GLY:N	2.13	0.81
1:M:245:SER:HA	1:N:248:ALA:CA	2.09	0.81
1:O:177:GLN:HG2	1:Q:177:GLN:HG3	1.62	0.81
1:2:258:PRO:O	1:3:261:GLN:N	2.12	0.81
1:R:188:ALA:HA	1:T:186:GLN:HB2	1.61	0.81
1:K:255:PRO:HD3	1:M:266:LEU:HD21	1.60	0.81
1:O:220:GLY:O	1:P:222:GLN:NE2	2.14	0.81
1:X:192:GLN:CB	1:B:195:PRO:HA	2.11	0.81
1:A:197:ALA:HB1	1:K:228:PRO:C	2.06	0.81
1:F:195:PRO:HB2	1:G:196:GLY:HA3	1.60	0.81
1:J:226:GLY:HA3	1:K:227:ALA:HB3	1.63	0.81
1:J:227:ALA:HB3	1:K:229:GLY:HA3	1.61	0.81
1:L:216:GLN:CD	1:M:212:ALA:HB3	2.04	0.81
1:M:212:ALA:CB	1:N:214:GLY:HA2	2.11	0.81
1:M:245:SER:HA	1:N:249:PRO:HD3	1.62	0.81
1:O:195:PRO:HA	1:P:196:GLY:HA2	1.61	0.81
1:O:225:PRO:O	1:P:229:GLY:N	2.12	0.81
1:R:216:GLN:OE1	1:U:231:GLN:HA	1.80	0.81
1:R:231:GLN:CB	1:T:233:ALA:HA	2.10	0.81
1:A:154:GLY:HA3	1:J:187:GLY:HA2	1.62	0.81
1:L:212:ALA:O	1:N:216:GLN:NE2	2.14	0.81
1:Y:192:GLN:NE2	1:Y:193:GLY:O	2.13	0.81
1:3:212:ALA:HB1	1:4:211:GLY:HA3	1.60	0.81
1:X:190:GLY:HA3	1:B:191:LEU:CA	2.10	0.81
1:D:187:GLY:HA2	1:E:189:PRO:CB	2.11	0.81
1:L:260:SER:OG	1:L:261:GLN:OE1	1.97	0.81
1:2:238:GLY:HA3	1:3:240:PRO:HA	1.62	0.81
1:R:181:GLY:HA3	1:S:182:ALA:CB	2.10	0.81
1:T:228:PRO:HD3	1:U:239:ALA:O	1.80	0.81
1:A:218:ALA:HB2	1:I:248:ALA:CB	2.10	0.81
1:F:222:GLN:HB2	1:G:219:PRO:HB3	1.62	0.81
1:L:245:SER:O	1:N:246:GLN:NE2	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:263:ALA:HB1	1:L:266:LEU:HD12	1.61	0.81
1:Y:253:GLY:N	1:1:255:PRO:HD3	1.96	0.81
1:Z:243:PRO:HB3	1:V:235:GLY:N	1.95	0.81
1:2:260:SER:CB	1:3:264:PRO:HD3	2.10	0.81
1:S:240:PRO:HA	1:W:253:GLY:HA3	1.61	0.81
1:D:225:PRO:HD3	1:K:242:ALA:CB	2.10	0.81
1:S:236:LEU:HG	1:T:240:PRO:HD2	1.63	0.81
1:U:247:GLY:HA2	1:U:251:LEU:HB2	1.61	0.81
1:E:206:LEU:HB3	1:K:223:GLY:HA2	1.63	0.81
1:I:205:GLY:O	1:I:206:LEU:HD23	1.80	0.81
1:P:222:GLN:HG3	1:Q:225:PRO:CD	2.10	0.81
1:U:192:GLN:HB2	1:W:195:PRO:CD	2.11	0.81
1:B:169:GLY:C	1:3:216:GLN:HB2	2.06	0.81
1:D:205:GLY:HA3	1:E:206:LEU:HD11	1.63	0.81
1:Z:237:GLN:HB2	1:V:231:GLN:HB3	1.63	0.81
1:2:243:PRO:CG	1:3:243:PRO:HA	2.09	0.81
1:R:177:GLN:HB2	1:T:177:GLN:O	1.81	0.81
1:C:198:PRO:HG2	1:E:200:SER:HB3	1.63	0.81
1:F:192:GLN:O	1:H:195:PRO:HG3	1.79	0.81
1:I:206:LEU:HD12	1:Z:214:GLY:N	1.96	0.81
1:I:246:GLN:HG3	1:K:247:GLY:HA3	1.63	0.81
1:I:246:GLN:HG2	1:K:245:SER:HB2	1.62	0.81
1:I:257:ALA:HB2	1:J:257:ALA:HA	1.64	0.81
1:J:219:PRO:HD3	1:K:218:ALA:HB1	1.62	0.81
1:L:227:ALA:HB3	1:M:225:PRO:HA	1.63	0.81
1:A:220:GLY:CA	1:B:222:GLN:HA	2.06	0.80
1:M:237:GLN:HA	1:N:239:ALA:O	1.81	0.80
1:Q:213:PRO:HB3	1:S:225:PRO:O	1.80	0.80
1:2:263:ALA:CA	1:4:264:PRO:HA	2.11	0.80
1:3:236:LEU:HG	1:4:238:GLY:O	1.81	0.80
1:X:221:LEU:HA	1:A:216:GLN:CG	2.11	0.80
1:A:198:PRO:HD2	1:K:228:PRO:HA	1.64	0.80
1:P:219:PRO:HD3	1:Q:219:PRO:HB2	1.63	0.80
1:Y:228:PRO:N	1:4:240:PRO:HB3	1.95	0.80
1:Y:244:GLY:HA3	1:V:236:LEU:HB2	1.62	0.80
1:E:206:LEU:N	1:E:207:GLN:OE1	2.15	0.80
1:I:229:GLY:CA	1:K:230:SER:HA	2.12	0.80
1:J:251:LEU:HB2	1:K:249:PRO:CG	2.10	0.80
1:M:261:GLN:HB3	1:N:265:GLY:HA3	1.62	0.80
1:2:212:ALA:HB3	1:4:213:PRO:CB	2.11	0.80
1:C:203:ALA:H	1:E:204:PRO:HD2	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:196:GLY:O	1:K:198:PRO:HD2	1.81	0.80
1:I:200:SER:HB2	1:L:213:PRO:HD2	1.63	0.80
1:I:237:GLN:NE2	1:I:238:GLY:O	2.14	0.80
1:J:234:PRO:HG3	1:K:234:PRO:HD2	1.63	0.80
1:Y:231:GLN:HB3	1:I:233:ALA:HA	1.64	0.80
1:Y:239:ALA:CB	1:Y:242:ALA:HB3	2.10	0.80
1:U:250:GLY:HA3	1:W:252:GLN:N	1.97	0.80
1:A:194:ALA:N	1:B:195:PRO:HG2	1.96	0.80
1:F:194:ALA:HB3	1:F:195:PRO:HD3	1.63	0.80
1:I:186:GLN:HA	1:J:185:SER:HA	1.63	0.80
1:J:218:ALA:HA	1:K:218:ALA:HB1	1.64	0.80
1:O:162:GLN:HE21	1:O:162:GLN:N	1.78	0.80
1:Y:228:PRO:CD	1:I:228:PRO:HB2	2.12	0.80
1:Y:254:ALA:CB	1:Z:256:GLY:HA3	2.11	0.80
1:E:189:PRO:HG2	1:J:204:PRO:HA	1.62	0.80
1:F:219:PRO:O	1:H:218:ALA:HB1	1.82	0.80
1:J:253:GLY:HA3	1:K:252:GLN:HA	1.63	0.80
1:2:264:PRO:CA	1:3:265:GLY:HA3	2.10	0.80
1:A:206:LEU:HB3	1:K:236:LEU:O	1.82	0.80
1:C:226:GLY:O	1:D:222:GLN:NE2	2.14	0.80
1:G:180:PRO:HA	1:H:180:PRO:HB2	1.62	0.80
1:G:188:ALA:HB1	1:H:190:GLY:O	1.81	0.80
1:I:192:GLN:HG2	1:N:203:ALA:HB1	1.64	0.80
1:M:220:GLY:N	1:N:221:LEU:O	2.14	0.80
1:M:231:GLN:HA	1:N:231:GLN:C	2.06	0.80
1:Y:220:GLY:O	1:I:224:ALA:HA	1.82	0.80
1:2:223:GLY:HA3	1:3:225:PRO:CA	2.11	0.80
1:R:234:PRO:HB3	1:T:237:GLN:HG2	1.63	0.80
1:A:199:GLY:O	1:K:230:SER:HB3	1.82	0.80
1:A:206:LEU:HD21	1:A:208:GLY:O	1.82	0.80
1:E:172:GLY:N	1:K:188:ALA:HB2	1.97	0.80
1:F:221:LEU:CB	1:H:221:LEU:HD12	2.11	0.80
1:Y:242:ALA:CB	1:V:234:PRO:HB3	2.11	0.80
1:Z:251:LEU:CD2	1:4:261:GLN:HG2	2.10	0.80
1:2:236:LEU:O	1:3:237:GLN:HB2	1.81	0.80
1:S:236:LEU:HD22	1:V:255:PRO:HG2	1.63	0.80
1:A:177:GLN:HG3	1:B:178:GLY:O	1.82	0.80
1:C:221:LEU:HA	1:E:221:LEU:HD13	1.64	0.80
1:L:240:PRO:HG3	1:N:237:GLN:HA	1.64	0.80
1:Z:260:SER:CB	1:S:243:PRO:HD2	2.09	0.80
1:2:216:GLN:HA	1:3:218:ALA:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:GLN:HG3	1:B:210:PRO:HA	1.63	0.79
1:C:187:GLY:HA3	1:E:187:GLY:HA3	1.63	0.79
1:C:189:PRO:CB	1:E:192:GLN:HB2	2.11	0.79
1:O:207:GLN:CB	1:P:209:ALA:HA	2.11	0.79
1:T:212:ALA:HB1	1:T:216:GLN:CB	2.12	0.79
1:C:217:GLY:N	1:D:213:PRO:O	2.14	0.79
1:D:221:LEU:CD2	1:J:236:LEU:HB3	2.12	0.79
1:D:224:ALA:HB3	1:E:225:PRO:HB2	1.63	0.79
1:L:240:PRO:HD2	1:M:238:GLY:N	1.97	0.79
1:Y:231:GLN:HB3	1:I:233:ALA:CA	2.12	0.79
1:Z:201:GLN:N	1:I:200:SER:HA	1.97	0.79
1:3:219:PRO:HD2	1:4:219:PRO:O	1.82	0.79
1:R:238:GLY:CA	1:S:236:LEU:HD23	2.12	0.79
1:S:221:LEU:CG	1:T:224:ALA:HB2	2.08	0.79
1:D:180:PRO:HD2	1:J:195:PRO:HG2	1.65	0.79
1:U:250:GLY:HA2	1:W:250:GLY:HA2	1.65	0.79
1:Z:237:GLN:CB	1:W:230:SER:HA	2.12	0.79
1:3:204:PRO:HD3	1:4:203:ALA:HB1	1.62	0.79
1:3:249:PRO:HD2	1:4:249:PRO:HD3	1.64	0.79
1:4:213:PRO:CB	1:4:216:GLN:HG2	2.12	0.79
1:T:176:LEU:HD23	1:T:176:LEU:O	1.83	0.79
1:X:163:GLY:HA3	1:J:196:GLY:HA2	1.63	0.79
1:A:190:GLY:HA3	1:B:191:LEU:HD13	1.64	0.79
1:C:208:GLY:HA2	1:E:207:GLN:H	1.47	0.79
1:D:225:PRO:HD3	1:K:242:ALA:HB1	1.63	0.79
1:J:236:LEU:O	1:K:239:ALA:N	2.16	0.79
1:L:221:LEU:HA	1:N:219:PRO:O	1.83	0.79
1:M:264:PRO:HG3	1:N:267:GLN:HB2	1.63	0.79
1:V:214:GLY:C	1:W:215:SER:HB3	2.08	0.79
1:D:211:GLY:CA	1:E:213:PRO:HD2	2.13	0.79
1:J:227:ALA:O	1:K:229:GLY:HA2	1.81	0.79
1:L:225:PRO:C	1:M:222:GLN:HA	2.07	0.79
1:N:240:PRO:CB	1:N:243:PRO:HG3	2.13	0.79
1:2:207:GLN:HA	1:4:207:GLN:CA	2.13	0.79
1:2:242:ALA:HB1	1:3:245:SER:OG	1.83	0.79
1:3:249:PRO:HG2	1:4:249:PRO:HG3	1.64	0.79
1:R:226:GLY:HA3	1:T:230:SER:HB2	1.65	0.79
1:W:250:GLY:O	1:W:251:LEU:HG	1.82	0.79
1:X:208:GLY:N	1:A:206:LEU:HG	1.97	0.79
1:D:167:ALA:HA	1:E:167:ALA:HB1	1.65	0.79
1:D:191:LEU:HD23	1:H:203:ALA:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:238:GLY:HA3	1:M:236:LEU:N	1.98	0.79
1:Z:252:GLN:HB3	1:Z:255:PRO:CG	2.13	0.79
1:R:224:ALA:HA	1:S:227:ALA:H	1.46	0.79
1:C:238:GLY:HA2	1:D:236:LEU:HD23	1.64	0.79
1:F:177:GLN:HG2	1:H:180:PRO:HA	1.63	0.79
1:L:201:GLN:O	1:N:202:GLY:HA3	1.83	0.79
1:L:252:GLN:O	1:M:251:LEU:N	2.15	0.79
1:M:242:ALA:HB2	1:N:242:ALA:O	1.83	0.79
1:Q:191:LEU:HD13	1:Z:221:LEU:HD22	1.65	0.79
1:Y:212:ALA:C	1:1:213:PRO:HG2	2.06	0.79
1:2:221:LEU:O	1:3:223:GLY:N	2.15	0.79
1:D:224:ALA:HA	1:K:243:PRO:HD3	1.64	0.79
1:P:177:GLN:CD	1:Q:177:GLN:HB3	2.07	0.79
1:P:222:GLN:HA	1:Q:224:ALA:HA	1.64	0.79
1:Y:207:GLN:N	1:Y:207:GLN:OE1	2.16	0.79
1:Z:257:ALA:HA	1:W:252:GLN:O	1.83	0.79
1:R:205:GLY:O	1:T:205:GLY:N	2.16	0.79
1:S:183:PRO:HB3	1:T:183:PRO:HB3	1.64	0.79
1:X:210:PRO:HD2	1:B:210:PRO:CA	2.13	0.79
1:S:201:GLN:HB2	1:T:201:GLN:N	1.96	0.79
1:U:212:ALA:HB2	1:V:211:GLY:O	1.83	0.79
1:U:248:ALA:HB2	1:W:247:GLY:CA	2.12	0.79
1:X:195:PRO:HB2	1:X:198:PRO:HD3	1.65	0.78
1:I:193:GLY:HA3	1:K:195:PRO:HD2	1.63	0.78
1:I:216:GLN:HB3	1:K:222:GLN:HE21	1.47	0.78
1:O:194:ALA:HB3	1:R:207:GLN:OE1	1.83	0.78
1:1:248:ALA:HB1	1:1:251:LEU:HD11	1.65	0.78
1:2:264:PRO:HD2	1:4:264:PRO:HA	1.63	0.78
1:S:237:GLN:O	1:W:252:GLN:NE2	2.16	0.78
1:I:250:GLY:HA3	1:K:249:PRO:HG3	1.65	0.78
1:Z:195:PRO:O	1:1:195:PRO:HB3	1.83	0.78
1:S:209:ALA:HB3	1:S:210:PRO:HD3	1.65	0.78
1:L:243:PRO:CB	1:M:240:PRO:HD2	2.12	0.78
1:L:253:GLY:O	1:M:253:GLY:N	2.15	0.78
1:O:175:GLY:HA3	1:P:177:GLN:CG	2.02	0.78
1:O:175:GLY:CA	1:P:177:GLN:HG3	2.02	0.78
1:1:226:GLY:HA2	1:W:215:SER:O	1.82	0.78
1:T:204:PRO:O	1:U:216:GLN:HG3	1.82	0.78
1:X:195:PRO:HB3	1:B:198:PRO:CG	2.14	0.78
1:A:177:GLN:N	1:B:177:GLN:HG2	1.96	0.78
1:B:169:GLY:O	1:4:218:ALA:N	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:221:LEU:HB3	1:N:221:LEU:CB	2.14	0.78
1:P:167:ALA:HA	1:Q:168:PRO:CA	2.12	0.78
1:I:236:LEU:CD2	1:K:239:ALA:HB3	2.12	0.78
1:L:263:ALA:CB	1:L:266:LEU:HD12	2.13	0.78
1:M:212:ALA:HB1	1:N:214:GLY:HA2	1.63	0.78
1:O:214:GLY:HA3	1:Q:219:PRO:CD	2.13	0.78
1:P:219:PRO:CG	1:Q:219:PRO:HB2	2.14	0.78
1:1:228:PRO:CA	1:V:218:ALA:HB2	2.12	0.78
1:2:233:ALA:HB3	1:4:236:LEU:N	1.99	0.78
1:2:250:GLY:HA3	1:4:250:GLY:CA	2.13	0.78
1:T:236:LEU:O	1:T:238:GLY:N	2.17	0.78
1:X:154:GLY:HA2	1:B:156:GLN:HB3	1.65	0.78
1:A:221:LEU:CB	1:K:251:LEU:HD12	2.12	0.78
1:F:195:PRO:CD	1:H:194:ALA:HA	2.13	0.78
1:J:224:ALA:O	1:K:226:GLY:HA2	1.83	0.78
1:2:238:GLY:CA	1:3:240:PRO:HA	2.12	0.78
1:3:260:SER:HB2	1:4:260:SER:HB3	1.66	0.78
1:R:179:ALA:O	1:S:179:ALA:HB1	1.83	0.78
1:S:213:PRO:HB2	1:T:212:ALA:CB	2.13	0.78
1:D:220:GLY:HA2	1:E:221:LEU:O	1.84	0.78
1:F:197:ALA:HA	1:G:198:PRO:HG2	1.66	0.78
1:I:189:PRO:HB2	1:N:201:GLN:CB	2.13	0.78
1:I:233:ALA:HA	1:Y:237:GLN:HE21	1.48	0.78
1:J:186:GLN:HB2	1:K:187:GLY:HA3	1.66	0.78
1:L:249:PRO:HG2	1:N:252:GLN:HA	1.64	0.78
1:O:217:GLY:HA3	1:P:218:ALA:CA	2.14	0.78
1:Y:233:ALA:C	1:Z:234:PRO:HA	2.08	0.78
1:3:251:LEU:HB3	1:4:251:LEU:O	1.83	0.78
1:S:235:GLY:CA	1:U:252:GLN:HA	2.08	0.78
1:U:201:GLN:H	1:W:202:GLY:HA2	1.46	0.78
1:A:167:ALA:HB3	1:K:198:PRO:CG	2.13	0.78
1:G:188:ALA:CA	1:H:189:PRO:HA	2.14	0.78
1:G:207:GLN:HG2	1:H:206:LEU:CD1	2.12	0.78
1:U:193:GLY:O	1:W:194:ALA:HA	1.83	0.78
1:F:200:SER:HB3	1:H:201:GLN:C	2.08	0.78
1:K:192:GLN:HB3	1:K:195:PRO:CG	2.13	0.78
1:L:228:PRO:C	1:N:226:GLY:HA3	2.09	0.78
1:Y:248:ALA:HA	1:Z:251:LEU:CD2	2.13	0.78
1:Z:248:ALA:N	1:Z:249:PRO:HD3	1.99	0.78
1:2:235:GLY:HA3	1:3:236:LEU:O	1.84	0.78
1:U:250:GLY:O	1:V:250:GLY:HA3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:182:ALA:HB3	1:X:183:PRO:HD3	1.64	0.78
1:X:194:ALA:HB1	1:2:237:GLN:OE1	1.84	0.78
1:A:168:PRO:CB	1:K:198:PRO:HA	2.13	0.78
1:J:252:GLN:HB3	1:1:255:PRO:O	1.84	0.78
1:L:207:GLN:O	1:M:207:GLN:HB2	1.84	0.78
1:O:210:PRO:HB3	1:Q:210:PRO:O	1.84	0.78
1:O:211:GLY:N	1:P:212:ALA:HA	1.99	0.78
1:Y:233:ALA:HB3	1:1:235:GLY:C	2.09	0.78
1:Z:219:PRO:HA	1:1:221:LEU:HA	1.66	0.78
1:S:227:ALA:HB1	1:T:230:SER:CB	2.12	0.78
1:C:195:PRO:HB2	1:D:194:ALA:CA	2.08	0.77
1:E:233:ALA:HB1	1:F:247:GLY:HA2	1.64	0.77
1:J:218:ALA:HB2	1:K:219:PRO:HD2	1.65	0.77
1:J:226:GLY:CA	1:K:227:ALA:HB3	2.14	0.77
1:L:204:PRO:CD	1:N:205:GLY:HA3	2.14	0.77
1:Q:191:LEU:O	1:Z:222:GLN:NE2	2.16	0.77
1:Y:232:GLY:CA	1:Z:234:PRO:HD3	2.14	0.77
1:Y:241:GLY:HA3	1:1:243:PRO:C	2.09	0.77
1:Y:252:GLN:HG3	1:U:249:PRO:HG3	1.65	0.77
1:2:239:ALA:HA	1:4:242:ALA:O	1.84	0.77
1:R:191:LEU:HA	1:T:191:LEU:HD12	1.66	0.77
1:A:195:PRO:HG3	1:J:225:PRO:HG2	1.66	0.77
1:C:227:ALA:N	1:E:224:ALA:O	2.17	0.77
1:F:221:LEU:HA	1:H:219:PRO:O	1.84	0.77
1:G:216:GLN:HA	1:H:218:ALA:CB	2.12	0.77
1:I:201:GLN:CB	1:L:213:PRO:HB2	2.14	0.77
1:M:261:GLN:OE1	1:N:263:ALA:HB1	1.83	0.77
1:O:210:PRO:HA	1:P:212:ALA:H	1.48	0.77
1:O:212:ALA:HB3	1:P:215:SER:HB3	1.67	0.77
1:Y:234:PRO:O	1:1:237:GLN:N	2.17	0.77
1:3:257:ALA:HB3	1:3:258:PRO:HD3	1.66	0.77
1:T:227:ALA:HB1	1:T:228:PRO:HD2	1.64	0.77
1:V:205:GLY:HA3	1:W:206:LEU:HD13	1.65	0.77
1:X:203:ALA:HB1	1:A:204:PRO:CD	2.13	0.77
1:B:217:GLY:O	1:K:247:GLY:HA2	1.83	0.77
1:C:175:GLY:H	1:E:177:GLN:HA	1.47	0.77
1:F:189:PRO:HA	1:G:188:ALA:HB2	1.65	0.77
1:F:212:ALA:HB2	1:H:213:PRO:HB2	1.66	0.77
1:F:227:ALA:CB	1:H:225:PRO:HA	2.13	0.77
1:Y:224:ALA:HB1	1:Z:228:PRO:HD3	1.65	0.77
1:S:180:PRO:CB	1:T:180:PRO:HA	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:210:PRO:HD3	1:W:208:GLY:CA	2.14	0.77
1:X:195:PRO:HA	1:B:195:PRO:CD	2.15	0.77
1:C:198:PRO:HB3	1:E:198:PRO:HB3	1.66	0.77
1:D:205:GLY:HA3	1:E:206:LEU:HD12	1.64	0.77
1:Z:254:ALA:CB	1:U:249:PRO:HA	2.14	0.77
1:Z:260:SER:HB2	1:S:243:PRO:CD	2.09	0.77
1:R:217:GLY:HA3	1:S:218:ALA:O	1.84	0.77
1:R:227:ALA:HA	1:T:228:PRO:CB	2.15	0.77
1:R:235:GLY:O	1:S:237:GLN:HG2	1.84	0.77
1:A:161:LEU:CA	1:B:162:GLN:HB2	2.14	0.77
1:C:195:PRO:CB	1:E:195:PRO:HB2	2.14	0.77
1:O:171:GLN:CA	1:P:173:ALA:HB3	2.14	0.77
1:Y:231:GLN:HB3	1:I:233:ALA:CB	2.15	0.77
1:3:224:ALA:HB3	1:4:226:GLY:HA2	1.65	0.77
1:S:180:PRO:HA	1:T:176:LEU:HD21	1.64	0.77
1:U:236:LEU:CG	1:V:237:GLN:HB2	2.14	0.77
1:X:157:GLY:HA2	1:A:155:SER:HB2	1.66	0.77
1:X:198:PRO:CA	1:B:198:PRO:HG2	2.13	0.77
1:D:231:GLN:HA	1:E:232:GLY:CA	2.13	0.77
1:F:203:ALA:N	1:G:202:GLY:O	2.17	0.77
1:F:244:GLY:HA3	1:G:240:PRO:HG2	1.66	0.77
1:K:199:GLY:O	1:K:201:GLN:NE2	2.18	0.77
1:L:200:SER:HB2	1:M:198:PRO:HA	1.65	0.77
1:Y:238:GLY:CA	1:V:233:ALA:HB1	2.14	0.77
1:3:220:GLY:HA2	1:4:222:GLN:H	1.47	0.77
1:W:251:LEU:O	1:W:251:LEU:HD12	1.85	0.77
1:X:159:PRO:HG3	1:J:189:PRO:HD3	1.64	0.77
1:B:180:PRO:HG2	1:2:225:PRO:CD	2.15	0.77
1:B:218:ALA:HB1	1:B:219:PRO:HD2	1.67	0.77
1:C:222:GLN:OE1	1:E:221:LEU:N	2.17	0.77
1:F:206:LEU:HD23	1:G:206:LEU:HD12	1.65	0.77
1:M:232:GLY:HA3	1:N:233:ALA:C	2.09	0.77
1:M:261:GLN:H	1:N:263:ALA:HA	1.49	0.77
1:O:185:SER:HA	1:P:187:GLY:H	1.50	0.77
1:Y:210:PRO:HB2	1:I:212:ALA:HA	1.65	0.77
1:Z:252:GLN:HB3	1:Z:255:PRO:CD	2.15	0.77
1:R:190:GLY:N	1:T:190:GLY:HA2	1.99	0.77
1:S:241:GLY:HA3	1:U:255:PRO:HG2	1.65	0.77
1:U:236:LEU:HD13	1:W:236:LEU:HG	1.66	0.77
1:G:198:PRO:HB3	1:H:198:PRO:HB2	1.67	0.77
1:P:177:GLN:O	1:P:180:PRO:HD3	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:230:SER:C	1:Z:231:GLN:HA	2.09	0.77
1:Z:232:GLY:O	1:V:225:PRO:HB2	1.84	0.77
1:Z:237:GLN:HB2	1:V:231:GLN:OE1	1.83	0.77
1:Z:261:GLN:O	1:4:276:GLN:HB2	1.84	0.77
1:S:215:SER:CA	1:T:216:GLN:HB2	2.11	0.77
1:S:236:LEU:HD21	1:T:240:PRO:HG2	1.66	0.77
1:W:243:PRO:CB	1:W:246:GLN:HB2	2.14	0.77
1:D:180:PRO:HG2	1:I:195:PRO:HG3	1.67	0.77
1:G:212:ALA:HA	1:H:214:GLY:HA3	1.64	0.77
1:I:187:GLY:HA3	1:K:187:GLY:CA	2.14	0.77
1:I:211:GLY:HA3	1:J:213:PRO:HB2	1.66	0.77
1:K:255:PRO:HB3	1:M:266:LEU:HD11	1.66	0.77
1:Y:229:GLY:CA	1:Z:231:GLN:HG3	2.15	0.77
1:Y:237:GLN:O	1:1:241:GLY:HA3	1.85	0.77
1:Z:261:GLN:HB2	1:3:276:GLN:C	2.10	0.77
1:R:235:GLY:C	1:S:236:LEU:HA	2.09	0.77
1:F:220:GLY:O	1:G:216:GLN:NE2	2.18	0.77
1:L:239:ALA:CA	1:M:238:GLY:HA3	2.12	0.77
1:Y:226:GLY:CA	1:1:229:GLY:HA2	2.11	0.77
1:C:187:GLY:HA3	1:E:187:GLY:CA	2.15	0.76
1:F:204:PRO:CB	1:H:206:LEU:HA	2.10	0.76
1:F:222:GLN:OE1	1:G:216:GLN:NE2	2.18	0.76
1:L:216:GLN:HG2	1:M:213:PRO:N	2.00	0.76
1:M:242:ALA:HB3	1:N:246:GLN:OE1	1.86	0.76
1:Y:207:GLN:HG3	1:Z:209:ALA:C	2.09	0.76
1:Y:242:ALA:HB1	1:V:234:PRO:HB3	1.66	0.76
1:Y:253:GLY:HA2	1:Z:255:PRO:CD	2.15	0.76
1:Z:216:GLN:OE1	1:1:217:GLY:N	2.17	0.76
1:1:231:GLN:NE2	1:W:222:GLN:OE1	2.16	0.76
1:V:236:LEU:O	1:V:240:PRO:HD3	1.84	0.76
1:X:191:LEU:O	1:A:191:LEU:HB2	1.84	0.76
1:A:220:GLY:O	1:I:253:GLY:HA2	1.85	0.76
1:E:213:PRO:CG	1:K:231:GLN:HG2	2.14	0.76
1:M:207:GLN:NE2	1:N:210:PRO:HG3	2.00	0.76
1:O:210:PRO:HG3	1:Q:210:PRO:HB2	1.66	0.76
1:P:221:LEU:CG	1:Q:224:ALA:HB2	2.15	0.76
1:2:234:PRO:HA	1:3:235:GLY:CA	2.15	0.76
1:2:243:PRO:HB3	1:4:243:PRO:HD2	1.67	0.76
1:S:206:LEU:O	1:S:206:LEU:HD12	1.83	0.76
1:D:182:ALA:CA	1:E:182:ALA:HB3	2.15	0.76
1:J:221:LEU:HB3	1:K:224:ALA:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:167:ALA:HB2	1:Q:166:GLY:C	2.09	0.76
1:Y:230:SER:CB	1:W:226:GLY:HA2	2.15	0.76
1:Z:194:ALA:HB1	1:1:195:PRO:HA	1.65	0.76
1:Z:236:LEU:HD23	1:1:237:GLN:CG	2.16	0.76
1:U:251:LEU:O	1:V:250:GLY:N	2.19	0.76
1:E:233:ALA:HB2	1:F:246:GLN:O	1.83	0.76
1:F:207:GLN:CA	1:H:207:GLN:HB2	2.15	0.76
1:F:225:PRO:HB2	1:G:223:GLY:N	2.00	0.76
1:I:251:LEU:HD12	1:I:254:ALA:HB3	1.66	0.76
1:K:246:GLN:HB2	1:Z:250:GLY:HA3	1.67	0.76
1:O:193:GLY:HA3	1:Q:193:GLY:O	1.84	0.76
1:P:203:ALA:HB2	1:Q:201:GLN:HB3	1.68	0.76
1:Y:241:GLY:CA	1:Z:245:SER:HB2	2.15	0.76
1:X:206:LEU:HD13	1:E:219:PRO:CG	2.15	0.76
1:O:192:GLN:CG	1:P:194:ALA:HB3	2.15	0.76
1:O:217:GLY:CA	1:P:218:ALA:HA	2.15	0.76
1:2:208:GLY:HA3	1:3:211:GLY:C	2.11	0.76
1:2:239:ALA:HB2	1:4:242:ALA:CB	2.15	0.76
1:2:239:ALA:CB	1:4:242:ALA:HB3	2.13	0.76
1:R:228:PRO:O	1:U:244:GLY:N	2.18	0.76
1:S:231:GLN:HE21	1:S:234:PRO:HD3	1.48	0.76
1:D:195:PRO:CA	1:H:210:PRO:HD2	2.15	0.76
1:F:237:GLN:N	1:G:235:GLY:HA2	2.00	0.76
1:G:227:ALA:HB3	1:H:230:SER:CA	2.09	0.76
1:I:217:GLY:HA3	1:J:218:ALA:N	2.01	0.76
1:M:245:SER:CA	1:N:249:PRO:HD3	2.15	0.76
1:R:191:LEU:HD23	1:W:203:ALA:N	2.01	0.76
1:X:216:GLN:O	1:B:216:GLN:N	2.18	0.76
1:C:173:ALA:HB2	1:E:175:GLY:HA2	1.67	0.76
1:D:189:PRO:HG2	1:F:200:SER:HA	1.68	0.76
1:I:252:GLN:NE2	1:K:249:PRO:HA	1.99	0.76
1:Y:238:GLY:N	1:Z:241:GLY:O	2.18	0.76
1:Z:237:GLN:HB2	1:V:231:GLN:CG	2.16	0.76
1:U:231:GLN:HB2	1:V:228:PRO:HG3	1.66	0.76
1:X:225:PRO:HG3	1:A:219:PRO:CB	2.11	0.76
1:G:185:SER:HB3	1:H:185:SER:CA	2.14	0.76
1:J:228:PRO:CB	1:1:236:LEU:HD23	2.14	0.76
1:O:191:LEU:HD12	1:O:191:LEU:O	1.86	0.76
1:P:171:GLN:OE1	1:Z:203:ALA:N	2.19	0.76
1:P:196:GLY:HA3	1:Q:195:PRO:C	2.10	0.76
1:Y:256:GLY:HA3	1:Z:258:PRO:HG2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:248:ALA:HA	1:1:248:ALA:O	1.85	0.76
1:D:219:PRO:O	1:E:221:LEU:HB3	1.86	0.76
1:M:240:PRO:HA	1:N:241:GLY:HA3	1.68	0.76
1:N:240:PRO:HB2	1:N:243:PRO:CG	2.15	0.76
1:O:179:ALA:CB	1:P:180:PRO:HB2	2.16	0.76
1:Y:238:GLY:C	1:V:233:ALA:HB1	2.10	0.76
1:Y:243:PRO:O	1:V:236:LEU:HB2	1.85	0.76
1:S:194:ALA:HB1	1:T:195:PRO:HB3	1.68	0.76
1:A:219:PRO:CG	1:I:253:GLY:HA3	2.09	0.76
1:B:179:ALA:HB2	1:2:221:LEU:HD11	1.68	0.76
1:C:205:GLY:HA3	1:E:206:LEU:HD11	1.68	0.76
1:D:192:GLN:HG3	1:H:205:GLY:CA	2.16	0.76
1:I:210:PRO:HG3	1:K:209:ALA:O	1.86	0.76
1:P:177:GLN:NE2	1:Q:177:GLN:OE1	2.19	0.76
1:2:254:ALA:HB3	1:2:255:PRO:HD3	1.65	0.76
1:S:207:GLN:CB	1:T:207:GLN:HA	2.15	0.76
1:A:178:GLY:HA3	1:B:180:PRO:HD3	1.68	0.75
1:D:221:LEU:HB2	1:K:240:PRO:HD2	1.68	0.75
1:F:221:LEU:HB3	1:H:221:LEU:N	2.01	0.75
1:J:251:LEU:CB	1:K:249:PRO:HG2	2.14	0.75
1:L:222:GLN:HA	1:M:216:GLN:NE2	2.01	0.75
1:L:239:ALA:H	1:N:236:LEU:HB2	1.50	0.75
1:O:214:GLY:HA2	1:Q:216:GLN:O	1.86	0.75
1:3:227:ALA:N	1:4:229:GLY:HA2	2.01	0.75
1:S:221:LEU:HB2	1:T:221:LEU:CD1	2.16	0.75
1:S:241:GLY:CA	1:U:255:PRO:HG2	2.15	0.75
1:C:215:SER:HA	1:D:212:ALA:CA	2.13	0.75
1:C:221:LEU:HD12	1:E:221:LEU:CD2	2.16	0.75
1:D:223:GLY:CA	1:K:240:PRO:HB2	2.16	0.75
1:F:202:GLY:HA3	1:H:204:PRO:CD	2.15	0.75
1:J:197:ALA:HA	1:K:196:GLY:CA	2.17	0.75
1:Z:203:ALA:CA	1:1:201:GLN:HB3	2.15	0.75
1:Z:237:GLN:CD	1:W:230:SER:HA	2.11	0.75
1:Z:243:PRO:O	1:2:252:GLN:NE2	2.19	0.75
1:1:252:GLN:HG2	1:1:255:PRO:HG3	1.68	0.75
1:2:218:ALA:O	1:3:220:GLY:HA3	1.86	0.75
1:R:223:GLY:HA2	1:S:224:ALA:O	1.85	0.75
1:T:222:GLN:HB2	1:U:234:PRO:HG3	1.66	0.75
1:X:165:PRO:N	1:B:166:GLY:HA3	2.01	0.75
1:X:216:GLN:N	1:A:213:PRO:HA	2.02	0.75
1:G:201:GLN:HA	1:H:201:GLN:OE1	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:240:PRO:CG	1:J:243:PRO:HG2	2.17	0.75
1:J:208:GLY:HA2	1:K:209:ALA:HA	1.67	0.75
1:Y:246:GLN:HE21	1:4:259:GLY:HA3	1.50	0.75
1:3:221:LEU:N	1:4:221:LEU:HB3	2.01	0.75
1:D:229:GLY:HA3	1:E:231:GLN:CG	2.16	0.75
1:F:198:PRO:CG	1:G:197:ALA:HA	2.16	0.75
1:I:229:GLY:N	1:K:230:SER:HA	2.01	0.75
1:M:209:ALA:HB2	1:N:213:PRO:HD2	1.67	0.75
1:O:222:GLN:CG	1:P:226:GLY:HA3	2.15	0.75
1:O:228:PRO:N	1:P:227:ALA:HB1	2.00	0.75
1:Y:221:LEU:O	1:Z:223:GLY:N	2.18	0.75
1:Y:224:ALA:O	1:Z:226:GLY:N	2.18	0.75
1:Y:241:GLY:HA3	1:1:244:GLY:N	2.01	0.75
1:R:239:ALA:HB2	1:T:241:GLY:C	2.11	0.75
1:C:191:LEU:N	1:D:190:GLY:O	2.19	0.75
1:F:202:GLY:CA	1:H:203:ALA:HA	2.17	0.75
1:F:226:GLY:HA2	1:H:224:ALA:HB3	1.68	0.75
1:M:239:ALA:O	1:N:242:ALA:N	2.18	0.75
1:P:201:GLN:HB2	1:Q:200:SER:OG	1.87	0.75
1:Y:243:PRO:HG3	1:4:258:PRO:HD2	1.69	0.75
1:Y:252:GLN:HG3	1:U:249:PRO:CB	2.16	0.75
1:Z:258:PRO:HB3	1:4:270:PRO:HB3	1.67	0.75
1:R:201:GLN:NE2	1:T:202:GLY:O	2.19	0.75
1:R:209:ALA:HB3	1:S:212:ALA:CB	2.17	0.75
1:A:176:LEU:HD11	1:J:206:LEU:CD1	2.14	0.75
1:A:222:GLN:CG	1:4:273:PRO:HB2	2.16	0.75
1:C:202:GLY:CA	1:D:201:GLN:HA	2.16	0.75
1:F:230:SER:HA	1:G:228:PRO:HA	1.67	0.75
1:F:240:PRO:HD3	1:H:236:LEU:O	1.86	0.75
1:I:224:ALA:N	1:1:233:ALA:HB3	2.01	0.75
1:I:239:ALA:HB2	1:K:242:ALA:CB	2.16	0.75
1:O:216:GLN:CA	1:P:219:PRO:HD2	2.16	0.75
1:Q:212:ALA:CB	1:Q:216:GLN:HB3	2.17	0.75
1:Y:248:ALA:C	1:Z:251:LEU:HD21	2.12	0.75
1:2:232:GLY:HA3	1:3:234:PRO:CD	2.17	0.75
1:X:181:GLY:N	1:A:181:GLY:HA3	2.01	0.75
1:A:206:LEU:O	1:K:236:LEU:HB3	1.87	0.75
1:D:175:GLY:C	1:E:177:GLN:HB2	2.12	0.75
1:I:217:GLY:N	1:J:218:ALA:HB3	2.02	0.75
1:I:224:ALA:CA	1:1:233:ALA:HB3	2.17	0.75
1:I:235:GLY:HA2	1:1:243:PRO:CB	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:202:GLY:N	1:1:201:GLN:HA	2.00	0.75
1:Y:205:GLY:O	1:Z:206:LEU:HD11	1.85	0.75
1:2:252:GLN:HB2	1:4:256:GLY:N	2.01	0.75
1:X:180:PRO:C	1:A:181:GLY:HA3	2.12	0.75
1:G:219:PRO:CA	1:H:220:GLY:HA3	2.06	0.75
1:I:226:GLY:HA3	1:J:228:PRO:CA	2.15	0.75
1:J:256:GLY:HA2	1:L:266:LEU:HB2	1.68	0.75
1:L:229:GLY:HA3	1:N:227:ALA:N	2.02	0.75
1:L:238:GLY:HA2	1:N:237:GLN:N	2.01	0.75
1:L:240:PRO:HG2	1:N:239:ALA:C	2.12	0.75
1:Q:215:SER:CB	1:Q:218:ALA:HB2	2.16	0.75
1:Y:227:ALA:O	1:1:230:SER:HB2	1.87	0.75
1:3:251:LEU:HB2	1:3:255:PRO:HG3	1.67	0.75
1:U:234:PRO:O	1:W:234:PRO:HG3	1.87	0.75
1:U:235:GLY:HA2	1:W:234:PRO:HD3	1.69	0.75
1:X:206:LEU:HB2	1:K:234:PRO:HB3	1.69	0.75
1:C:233:ALA:HB3	1:I:248:ALA:O	1.87	0.75
1:L:220:GLY:H	1:N:219:PRO:HD2	1.50	0.75
1:R:180:PRO:CB	1:S:180:PRO:HB2	2.17	0.75
1:R:217:GLY:O	1:U:234:PRO:HD3	1.87	0.75
1:U:250:GLY:C	1:W:252:GLN:HG3	2.11	0.75
1:A:161:LEU:HA	1:B:162:GLN:CB	2.15	0.74
1:F:190:GLY:CA	1:G:191:LEU:HA	2.17	0.74
1:I:237:GLN:HE22	1:K:244:GLY:HA3	1.52	0.74
1:K:218:ALA:HB2	1:Y:221:LEU:HD22	1.69	0.74
1:L:251:LEU:N	1:M:250:GLY:HA3	2.00	0.74
1:L:262:GLY:CA	1:M:261:GLN:HG3	2.14	0.74
1:Y:230:SER:HA	1:1:231:GLN:HB2	1.69	0.74
1:Z:238:GLY:H	1:V:233:ALA:HA	1.51	0.74
1:2:231:GLN:HB2	1:3:230:SER:HB3	1.67	0.74
1:R:234:PRO:HB3	1:T:237:GLN:CG	2.16	0.74
1:U:190:GLY:CA	1:V:189:PRO:HA	2.17	0.74
1:C:195:PRO:HD2	1:D:193:GLY:C	2.12	0.74
1:I:229:GLY:HA3	1:K:230:SER:CA	2.17	0.74
1:Y:207:GLN:HB2	1:1:206:LEU:CD2	2.17	0.74
1:Z:246:GLN:H	1:4:258:PRO:HG2	1.52	0.74
1:3:204:PRO:O	1:4:205:GLY:HA3	1.88	0.74
1:R:198:PRO:HA	1:T:200:SER:HB2	1.69	0.74
1:C:176:LEU:O	1:E:177:GLN:HG2	1.87	0.74
1:E:171:GLN:HG3	1:K:188:ALA:CB	2.16	0.74
1:J:200:SER:HB3	1:K:198:PRO:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:222:GLN:NE2	1:N:219:PRO:O	2.19	0.74
1:R:192:GLN:OE1	1:T:192:GLN:HB2	1.87	0.74
1:U:236:LEU:HD13	1:W:236:LEU:CG	2.16	0.74
1:C:174:PRO:HB2	1:E:177:GLN:HG3	1.70	0.74
1:C:226:GLY:HA2	1:E:224:ALA:HB3	1.69	0.74
1:D:203:ALA:O	1:F:218:ALA:HB3	1.87	0.74
1:M:251:LEU:HG	1:N:251:LEU:HD11	1.68	0.74
1:Y:245:SER:HA	1:Z:246:GLN:HG3	1.69	0.74
1:3:208:GLY:HA2	1:4:210:PRO:HD3	1.69	0.74
1:R:216:GLN:OE1	1:U:231:GLN:NE2	2.20	0.74
1:S:192:GLN:HG2	1:T:189:PRO:HG2	1.67	0.74
1:U:236:LEU:HB2	1:W:236:LEU:HD21	1.68	0.74
1:X:203:ALA:CA	1:A:204:PRO:HD2	2.18	0.74
1:X:213:PRO:CG	1:A:213:PRO:HD3	2.16	0.74
1:F:177:GLN:HA	1:H:180:PRO:CA	2.18	0.74
1:F:191:LEU:CB	1:G:192:GLN:HB2	2.16	0.74
1:O:200:SER:HB3	1:Q:199:GLY:HA2	1.68	0.74
1:O:222:GLN:HE21	1:O:225:PRO:HB3	1.52	0.74
1:Y:202:GLY:H	1:1:201:GLN:HA	1.53	0.74
1:Y:222:GLN:NE2	1:1:225:PRO:O	2.21	0.74
1:V:188:ALA:HB3	1:V:189:PRO:CD	2.16	0.74
1:W:222:GLN:NE2	1:W:224:ALA:O	2.20	0.74
1:G:213:PRO:HD2	1:H:214:GLY:CA	2.16	0.74
1:O:227:ALA:C	1:P:227:ALA:HB1	2.12	0.74
1:Y:210:PRO:HA	1:Z:212:ALA:CB	2.16	0.74
1:Y:257:ALA:HB1	1:Y:258:PRO:HD2	1.69	0.74
1:2:232:GLY:HA3	1:3:234:PRO:HD3	1.69	0.74
1:3:212:ALA:HB1	1:3:213:PRO:HD3	1.69	0.74
1:3:219:PRO:HB2	1:4:221:LEU:CD1	2.17	0.74
1:R:229:GLY:HA3	1:S:231:GLN:HB2	1.70	0.74
1:U:208:GLY:HA3	1:W:208:GLY:N	2.03	0.74
1:V:184:GLY:O	1:V:186:GLN:NE2	2.21	0.74
1:V:230:SER:HB2	1:W:234:PRO:CG	2.17	0.74
1:D:178:GLY:HA3	1:E:177:GLN:O	1.88	0.74
1:I:194:ALA:O	1:K:195:PRO:HB2	1.87	0.74
1:I:232:GLY:HA2	1:K:234:PRO:O	1.87	0.74
1:P:219:PRO:HG3	1:Q:219:PRO:HB2	1.68	0.74
1:Y:192:GLN:HG2	1:1:192:GLN:HB2	1.68	0.74
1:Y:251:LEU:CB	1:U:249:PRO:HD3	2.07	0.74
1:Z:195:PRO:CD	1:1:195:PRO:HG3	2.17	0.74
1:X:161:LEU:HG	1:K:194:ALA:O	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:223:GLY:O	1:B:225:PRO:HD3	1.88	0.74
1:I:231:GLN:HG2	1:J:231:GLN:O	1.87	0.74
1:J:193:GLY:HA3	1:K:193:GLY:N	2.03	0.74
1:J:204:PRO:O	1:K:203:ALA:HA	1.87	0.74
1:J:224:ALA:N	1:K:225:PRO:O	2.21	0.74
1:Y:198:PRO:CA	1:1:198:PRO:HG2	2.16	0.74
1:Z:230:SER:HB3	1:1:233:ALA:HB2	1.69	0.74
1:R:210:PRO:HA	1:U:223:GLY:C	2.13	0.74
1:T:209:ALA:HB1	1:U:222:GLN:O	1.87	0.74
1:X:163:GLY:O	1:A:166:GLY:HA2	1.88	0.74
1:J:221:LEU:N	1:K:221:LEU:HB3	2.03	0.74
1:K:246:GLN:HG3	1:Z:250:GLY:HA3	1.70	0.74
1:M:219:PRO:HA	1:N:220:GLY:HA2	1.69	0.74
1:Z:212:ALA:N	1:1:210:PRO:HG2	2.03	0.74
1:V:218:ALA:O	1:W:219:PRO:HB3	1.88	0.74
1:A:162:GLN:HG3	1:B:162:GLN:HG3	1.68	0.74
1:A:174:PRO:HD2	1:I:204:PRO:CG	2.18	0.74
1:E:171:GLN:HB3	1:K:186:GLN:CA	2.18	0.74
1:O:210:PRO:HD3	1:Q:210:PRO:CG	2.16	0.74
1:2:219:PRO:HG3	1:4:223:GLY:O	1.87	0.74
1:R:240:PRO:HG3	1:T:245:SER:HA	1.69	0.74
1:S:195:PRO:CG	1:T:195:PRO:HG3	2.18	0.74
1:S:207:GLN:NE2	1:T:207:GLN:OE1	2.20	0.74
1:A:206:LEU:HD22	1:K:237:GLN:C	2.12	0.73
1:I:193:GLY:N	1:K:192:GLN:O	2.20	0.73
1:I:213:PRO:HD3	1:K:212:ALA:HB1	1.70	0.73
1:I:234:PRO:O	1:1:243:PRO:HB3	1.87	0.73
1:P:217:GLY:N	1:Q:217:GLY:HA2	2.03	0.73
1:P:219:PRO:CD	1:Q:219:PRO:HB2	2.18	0.73
1:Y:207:GLN:HA	1:Z:210:PRO:CD	2.18	0.73
1:Y:217:GLY:HA2	1:1:222:GLN:HG3	1.69	0.73
1:2:270:PRO:HB2	1:2:273:PRO:CG	2.17	0.73
1:U:247:GLY:CA	1:U:251:LEU:HB2	2.18	0.73
1:X:157:GLY:N	1:A:155:SER:O	2.22	0.73
1:A:211:GLY:HA3	1:B:214:GLY:CA	2.08	0.73
1:B:225:PRO:HD2	1:2:271:GLY:O	1.88	0.73
1:C:170:SER:O	1:D:171:GLN:HB3	1.88	0.73
1:D:202:GLY:CA	1:F:216:GLN:HG3	2.16	0.73
1:J:194:ALA:N	1:K:193:GLY:O	2.21	0.73
1:O:169:GLY:HA2	1:P:171:GLN:N	2.01	0.73
1:Y:237:GLN:CG	1:1:239:ALA:HB1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:213:PRO:HB2	1:1:212:ALA:HB2	1.69	0.73
1:Z:237:GLN:HB2	1:V:231:GLN:CD	2.12	0.73
1:S:188:ALA:N	1:T:187:GLY:O	2.22	0.73
1:U:210:PRO:HD3	1:W:208:GLY:HA2	1.70	0.73
1:V:217:GLY:O	1:W:219:PRO:HG3	1.87	0.73
1:L:210:PRO:HB2	1:L:216:GLN:HE22	1.52	0.73
1:Z:231:GLN:CB	1:4:243:PRO:HA	2.14	0.73
1:1:215:SER:HB3	1:1:219:PRO:HG2	1.69	0.73
1:1:228:PRO:HA	1:V:218:ALA:CB	2.16	0.73
1:R:205:GLY:HA3	1:S:205:GLY:C	2.13	0.73
1:R:214:GLY:HA3	1:T:215:SER:OG	1.88	0.73
1:R:234:PRO:HB2	1:S:234:PRO:CB	2.18	0.73
1:U:255:PRO:HG3	1:W:254:ALA:O	1.89	0.73
1:V:250:GLY:C	1:V:251:LEU:HD23	2.13	0.73
1:X:171:GLN:CB	1:B:174:PRO:HB3	2.19	0.73
1:X:187:GLY:HA2	1:A:189:PRO:CA	2.17	0.73
1:X:215:SER:HB3	1:A:213:PRO:CB	2.19	0.73
1:B:155:SER:HB3	1:4:204:PRO:CB	2.16	0.73
1:C:187:GLY:CA	1:D:187:GLY:HA3	2.15	0.73
1:F:205:GLY:HA3	1:G:206:LEU:HD13	1.69	0.73
1:J:227:ALA:HB3	1:K:229:GLY:CA	2.17	0.73
1:Y:231:GLN:H	1:1:233:ALA:HA	1.51	0.73
1:1:229:GLY:O	1:W:221:LEU:HD11	1.88	0.73
1:2:212:ALA:HB3	1:4:213:PRO:HB3	1.68	0.73
1:S:191:LEU:CD2	1:T:193:GLY:HA2	2.18	0.73
1:T:227:ALA:HB1	1:T:228:PRO:CD	2.19	0.73
1:U:234:PRO:HB2	1:U:237:GLN:CD	2.14	0.73
1:D:207:GLN:HA	1:E:210:PRO:HG3	1.70	0.73
1:F:227:ALA:HB1	1:G:224:ALA:HB3	1.70	0.73
1:K:252:GLN:CB	1:1:257:ALA:HB3	2.18	0.73
1:L:240:PRO:HD2	1:M:238:GLY:H	1.52	0.73
1:N:260:SER:OG	1:N:263:ALA:HB3	1.88	0.73
1:O:180:PRO:HD3	1:Q:178:GLY:HA3	1.70	0.73
1:2:254:ALA:HA	1:3:256:GLY:O	1.87	0.73
1:R:221:LEU:HB3	1:U:237:GLN:CB	2.18	0.73
1:R:235:GLY:HA2	1:T:240:PRO:HD2	1.69	0.73
1:X:155:SER:O	1:A:156:GLN:HA	1.88	0.73
1:C:198:PRO:HD3	1:E:198:PRO:HA	1.69	0.73
1:C:203:ALA:HA	1:D:204:PRO:CD	2.18	0.73
1:D:214:GLY:N	1:E:216:GLN:HG2	2.03	0.73
1:D:215:SER:HB3	1:E:215:SER:CB	2.13	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:209:ALA:HB1	1:G:210:PRO:HD3	1.69	0.73
1:P:206:LEU:O	1:Q:204:PRO:HD2	1.89	0.73
1:Z:221:LEU:CA	1:1:221:LEU:HD23	2.17	0.73
1:Z:237:GLN:NE2	1:W:229:GLY:O	2.22	0.73
1:3:213:PRO:HD3	1:4:211:GLY:CA	2.18	0.73
1:3:214:GLY:N	1:4:216:GLN:OE1	2.21	0.73
1:R:184:GLY:HA2	1:S:186:GLN:NE2	2.04	0.73
1:R:195:PRO:HA	1:S:197:ALA:CB	2.19	0.73
1:R:214:GLY:HA2	1:T:216:GLN:CA	2.18	0.73
1:R:234:PRO:HD2	1:S:234:PRO:HA	1.70	0.73
1:R:238:GLY:CA	1:V:255:PRO:HB2	2.19	0.73
1:V:196:GLY:HA2	1:W:198:PRO:HG3	1.69	0.73
1:X:161:LEU:HD22	1:A:164:ALA:CB	2.19	0.73
1:F:231:GLN:HG2	1:G:228:PRO:CB	2.18	0.73
1:I:199:GLY:HA3	1:K:200:SER:HB2	1.71	0.73
1:J:201:GLN:HB2	1:K:200:SER:HB3	1.71	0.73
1:O:180:PRO:HD3	1:Q:178:GLY:CA	2.19	0.73
1:Z:204:PRO:HG2	1:1:203:ALA:CA	2.14	0.73
1:2:231:GLN:HB3	1:4:233:ALA:CB	2.17	0.73
1:3:216:GLN:HG3	1:4:217:GLY:C	2.13	0.73
1:D:191:LEU:CD2	1:H:203:ALA:HB3	2.18	0.73
1:F:229:GLY:CA	1:H:228:PRO:HA	2.14	0.73
1:I:226:GLY:CA	1:J:228:PRO:HA	2.19	0.73
1:I:240:PRO:HG3	1:J:243:PRO:HD2	1.71	0.73
1:Y:216:GLN:HB2	1:Z:219:PRO:CG	2.19	0.73
1:Y:231:GLN:HA	1:Z:231:GLN:C	2.13	0.73
1:1:225:PRO:HA	1:W:214:GLY:CA	2.13	0.73
1:2:231:GLN:N	1:3:230:SER:O	2.20	0.73
1:R:213:PRO:HG2	1:U:228:PRO:N	2.03	0.73
1:V:241:GLY:CA	1:W:243:PRO:HA	2.17	0.73
1:X:194:ALA:HB3	1:B:193:GLY:CA	2.18	0.73
1:D:210:PRO:HA	1:E:209:ALA:O	1.88	0.73
1:G:190:GLY:C	1:H:191:LEU:HB3	2.14	0.73
1:J:205:GLY:HA3	1:K:203:ALA:HA	1.69	0.73
1:J:207:GLN:H	1:K:207:GLN:HA	1.53	0.73
1:J:236:LEU:CA	1:K:237:GLN:HB3	2.17	0.73
1:P:204:PRO:CD	1:Q:202:GLY:HA2	2.16	0.73
1:P:209:ALA:C	1:Q:209:ALA:HA	2.13	0.73
1:P:213:PRO:HD2	1:Q:212:ALA:CA	2.18	0.73
1:Y:204:PRO:HG3	1:Z:203:ALA:HB1	1.70	0.73
1:Y:206:LEU:HB2	1:1:206:LEU:CB	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:240:PRO:O	1:Z:245:SER:OG	2.06	0.73
1:1:212:ALA:HB3	1:1:216:GLN:HB2	1.69	0.73
1:X:192:GLN:H	1:B:192:GLN:HB2	1.52	0.73
1:A:176:LEU:CD1	1:J:206:LEU:HD11	2.13	0.73
1:F:193:GLY:HA2	1:H:195:PRO:HG3	1.69	0.73
1:F:224:ALA:CB	1:H:221:LEU:HB3	2.19	0.73
1:I:214:GLY:O	1:I:216:GLN:NE2	2.22	0.73
1:J:194:ALA:HA	1:K:195:PRO:HA	1.71	0.73
1:M:244:GLY:CA	1:N:245:SER:HB3	2.18	0.73
1:Y:247:GLY:HA2	1:W:243:PRO:CD	2.19	0.73
1:3:206:LEU:CD1	1:4:205:GLY:HA2	2.18	0.73
1:U:183:PRO:HA	1:V:183:PRO:CD	2.19	0.73
1:V:185:SER:HB2	1:W:189:PRO:CD	2.19	0.73
1:V:227:ALA:O	1:W:231:GLN:NE2	2.21	0.73
1:X:210:PRO:HA	1:A:210:PRO:CD	2.18	0.72
1:D:200:SER:HA	1:H:213:PRO:CB	2.19	0.72
1:I:207:GLN:HB2	1:J:210:PRO:HA	1.71	0.72
1:I:215:SER:N	1:K:219:PRO:HG2	2.04	0.72
1:I:221:LEU:HG	1:Z:228:PRO:HD2	1.70	0.72
1:J:209:ALA:O	1:K:210:PRO:HG2	1.88	0.72
1:P:203:ALA:HB2	1:Q:201:GLN:CB	2.18	0.72
1:Y:252:GLN:OE1	1:Y:255:PRO:HD3	1.89	0.72
1:Z:213:PRO:HD3	1:1:210:PRO:O	1.88	0.72
1:2:223:GLY:CA	1:3:225:PRO:HA	2.19	0.72
1:2:252:GLN:HG3	1:3:257:ALA:CB	2.19	0.72
1:R:188:ALA:HA	1:T:186:GLN:CB	2.19	0.72
1:S:192:GLN:CG	1:T:189:PRO:HG2	2.19	0.72
1:C:198:PRO:CB	1:E:198:PRO:HB3	2.19	0.72
1:G:199:GLY:HA2	1:H:201:GLN:H	1.54	0.72
1:J:201:GLN:OE1	1:J:201:GLN:N	2.23	0.72
1:J:248:ALA:HB1	1:O:218:ALA:HB1	1.68	0.72
1:P:168:PRO:HB2	1:P:172:GLY:HA3	1.70	0.72
1:Y:239:ALA:HB1	1:Y:242:ALA:CB	2.13	0.72
1:R:228:PRO:CG	1:U:243:PRO:HB3	2.19	0.72
1:U:226:GLY:HA3	1:V:222:GLN:OE1	1.89	0.72
1:X:172:GLY:CA	1:A:171:GLN:HB2	2.17	0.72
1:X:188:ALA:HB2	1:B:187:GLY:O	1.89	0.72
1:G:197:ALA:CB	1:H:200:SER:HB2	2.13	0.72
1:N:204:PRO:HB2	1:N:206:LEU:CD1	2.20	0.72
1:O:210:PRO:CB	1:Q:213:PRO:HD3	2.19	0.72
1:3:212:ALA:HB1	1:3:213:PRO:CD	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:191:LEU:O	1:T:194:ALA:HB2	1.88	0.72
1:R:225:PRO:CA	1:T:228:PRO:HD2	2.15	0.72
1:V:226:GLY:HA3	1:W:228:PRO:O	1.89	0.72
1:J:253:GLY:HA3	1:K:252:GLN:CB	2.19	0.72
1:O:186:GLN:HA	1:Q:184:GLY:O	1.90	0.72
1:O:212:ALA:CB	1:P:215:SER:HB3	2.19	0.72
1:Y:249:PRO:HA	1:W:247:GLY:CA	2.17	0.72
1:Z:214:GLY:N	1:1:216:GLN:OE1	2.21	0.72
1:3:252:GLN:O	1:4:252:GLN:HB3	1.88	0.72
1:R:243:PRO:HD3	1:U:256:GLY:C	2.14	0.72
1:T:205:GLY:HA2	1:U:216:GLN:HA	1.71	0.72
1:U:186:GLN:HB2	1:V:186:GLN:HA	1.72	0.72
1:U:188:ALA:O	1:V:188:ALA:HB1	1.89	0.72
1:U:198:PRO:HD2	1:V:198:PRO:N	2.04	0.72
1:U:202:GLY:N	1:V:202:GLY:O	2.21	0.72
1:U:224:ALA:HB1	1:V:222:GLN:NE2	2.04	0.72
1:D:201:GLN:O	1:F:216:GLN:NE2	2.22	0.72
1:F:242:ALA:CB	1:G:237:GLN:HG3	2.19	0.72
1:I:251:LEU:HB2	1:I:254:ALA:HB3	1.71	0.72
1:L:198:PRO:HG2	1:M:198:PRO:CD	2.19	0.72
1:L:235:GLY:HA3	1:M:233:ALA:H	1.54	0.72
1:Z:246:GLN:N	1:4:258:PRO:HG2	2.05	0.72
1:2:214:GLY:HA2	1:3:216:GLN:HG2	1.71	0.72
1:2:226:GLY:C	1:4:230:SER:HB2	2.15	0.72
1:A:207:GLN:HB2	1:B:210:PRO:HB3	1.72	0.72
1:C:205:GLY:HA3	1:E:206:LEU:CD1	2.19	0.72
1:L:208:GLY:HA3	1:M:208:GLY:CA	2.20	0.72
1:L:255:PRO:HA	1:N:256:GLY:C	2.14	0.72
1:O:213:PRO:O	1:P:215:SER:HB2	1.89	0.72
1:O:220:GLY:C	1:P:222:GLN:HB2	2.14	0.72
1:P:216:GLN:HG3	1:Q:217:GLY:HA3	1.71	0.72
1:Z:204:PRO:HB2	1:1:204:PRO:CD	2.19	0.72
1:2:243:PRO:HD3	1:4:244:GLY:HA2	1.70	0.72
1:R:225:PRO:HA	1:T:227:ALA:CB	2.19	0.72
1:R:238:GLY:HA2	1:S:236:LEU:HD23	1.71	0.72
1:U:182:ALA:O	1:U:185:SER:OG	2.03	0.72
1:U:204:PRO:HD2	1:V:206:LEU:HD21	1.70	0.72
1:A:205:GLY:HA3	1:K:235:GLY:H	1.54	0.72
1:C:179:ALA:CB	1:D:180:PRO:HA	2.20	0.72
1:C:183:PRO:HG3	1:F:192:GLN:NE2	2.05	0.72
1:G:187:GLY:HA2	1:H:188:ALA:N	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:262:GLY:C	1:M:261:GLN:HA	2.15	0.72
1:P:203:ALA:HB3	1:P:206:LEU:HD13	1.71	0.72
1:3:231:GLN:NE2	1:4:230:SER:OG	2.19	0.72
1:V:205:GLY:HA2	1:V:207:GLN:NE2	2.03	0.72
1:W:222:GLN:HG3	1:W:225:PRO:HA	1.71	0.72
1:C:171:GLN:HA	1:D:171:GLN:HA	1.72	0.72
1:Y:243:PRO:CG	1:Z:246:GLN:HG2	2.20	0.72
1:Z:216:GLN:O	1:1:215:SER:HB2	1.89	0.72
1:2:256:GLY:CA	1:4:256:GLY:HA3	2.20	0.72
1:X:215:SER:O	1:X:217:GLY:N	2.22	0.72
1:A:221:LEU:O	1:4:273:PRO:HD2	1.90	0.72
1:A:221:LEU:HD11	1:1:257:ALA:HB2	1.71	0.72
1:C:221:LEU:HD12	1:E:221:LEU:HD22	1.72	0.72
1:F:246:GLN:HA	1:G:246:GLN:O	1.89	0.72
1:M:220:GLY:HA2	1:O:183:PRO:HG2	1.71	0.72
1:O:209:ALA:HB1	1:O:210:PRO:HD2	1.70	0.72
1:Q:202:GLY:O	1:Q:204:PRO:HD3	1.90	0.72
1:V:251:LEU:HD21	1:W:255:PRO:HB3	1.70	0.72
1:E:172:GLY:HA2	1:K:188:ALA:HA	1.72	0.72
1:G:188:ALA:HA	1:H:189:PRO:CA	2.19	0.72
1:K:246:GLN:CG	1:Z:250:GLY:HA3	2.19	0.72
1:L:200:SER:HA	1:N:200:SER:CA	2.17	0.72
1:L:234:PRO:CB	1:N:234:PRO:HB3	2.13	0.72
1:O:206:LEU:HA	1:Q:204:PRO:O	1.90	0.72
1:O:219:PRO:HA	1:P:220:GLY:CA	2.17	0.72
1:X:206:LEU:CG	1:A:206:LEU:HB2	2.16	0.71
1:X:206:LEU:HD22	1:E:219:PRO:HB2	1.73	0.71
1:C:170:SER:C	1:D:171:GLN:HB3	2.15	0.71
1:C:198:PRO:HB2	1:E:200:SER:CB	2.19	0.71
1:D:229:GLY:HA3	1:E:231:GLN:HG3	1.70	0.71
1:G:190:GLY:O	1:G:191:LEU:HD12	1.90	0.71
1:J:195:PRO:HB2	1:J:198:PRO:HG3	1.72	0.71
1:M:249:PRO:HD2	1:N:249:PRO:O	1.91	0.71
1:N:262:GLY:C	1:N:264:PRO:HD3	2.15	0.71
1:O:206:LEU:HA	1:Q:204:PRO:HB2	1.69	0.71
1:P:210:PRO:HD3	1:Q:206:LEU:O	1.90	0.71
1:Z:231:GLN:HB3	1:V:225:PRO:CG	2.20	0.71
1:Z:251:LEU:HB3	1:4:261:GLN:OE1	1.89	0.71
1:2:231:GLN:N	1:4:234:PRO:HD2	2.05	0.71
1:B:168:PRO:CD	1:3:214:GLY:HA3	2.20	0.71
1:C:210:PRO:HG2	1:D:210:PRO:HD3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:259:GLY:O	1:N:263:ALA:HB2	1.90	0.71
1:Y:196:GLY:HA3	1:1:197:ALA:CB	2.19	0.71
1:4:251:LEU:CG	1:4:255:PRO:HG2	2.20	0.71
1:C:224:ALA:N	1:D:219:PRO:O	2.22	0.71
1:E:206:LEU:CB	1:K:223:GLY:HA2	2.20	0.71
1:F:190:GLY:N	1:H:191:LEU:HA	2.05	0.71
1:F:239:ALA:HB1	1:G:237:GLN:O	1.90	0.71
1:G:230:SER:O	1:H:234:PRO:HG3	1.89	0.71
1:J:207:GLN:OE1	1:J:207:GLN:N	2.23	0.71
1:L:222:GLN:HA	1:M:216:GLN:HE21	1.54	0.71
1:M:198:PRO:HG3	1:N:201:GLN:HG2	1.72	0.71
1:Y:222:GLN:HA	1:Z:223:GLY:C	2.15	0.71
1:2:206:LEU:CA	1:4:206:LEU:HB3	2.14	0.71
1:2:245:SER:OG	1:3:248:ALA:HB2	1.90	0.71
1:R:219:PRO:HD2	1:U:234:PRO:CD	2.19	0.71
1:V:198:PRO:HB2	1:V:201:GLN:HB2	1.72	0.71
1:V:224:ALA:HB2	1:W:224:ALA:O	1.90	0.71
1:C:210:PRO:HB2	1:D:209:ALA:HA	1.71	0.71
1:J:191:LEU:HB2	1:K:193:GLY:HA2	1.72	0.71
1:Y:233:ALA:O	1:1:237:GLN:NE2	2.24	0.71
1:Z:217:GLY:N	1:1:218:ALA:HA	2.05	0.71
1:Z:237:GLN:OE1	1:Z:237:GLN:N	2.21	0.71
1:V:231:GLN:HB2	1:W:231:GLN:C	2.14	0.71
1:X:199:GLY:O	1:B:199:GLY:HA3	1.90	0.71
1:A:159:PRO:HB3	1:4:207:GLN:HE22	1.54	0.71
1:A:168:PRO:HD3	1:K:198:PRO:HG3	1.71	0.71
1:D:203:ALA:HB3	1:F:217:GLY:O	1.91	0.71
1:L:210:PRO:HB2	1:L:216:GLN:NE2	2.06	0.71
1:M:219:PRO:C	1:O:183:PRO:HG2	2.15	0.71
1:O:169:GLY:O	1:Q:169:GLY:HA3	1.90	0.71
1:Y:253:GLY:H	1:1:255:PRO:HD3	1.55	0.71
1:1:193:GLY:O	1:1:195:PRO:HD3	1.90	0.71
1:S:212:ALA:HB1	1:T:211:GLY:N	2.05	0.71
1:S:240:PRO:HA	1:W:253:GLY:CA	2.20	0.71
1:U:229:GLY:N	1:W:225:PRO:HD2	2.04	0.71
1:U:249:PRO:HD2	1:U:251:LEU:CD2	2.19	0.71
1:X:206:LEU:CD2	1:K:237:GLN:HG3	2.19	0.71
1:G:237:GLN:N	1:H:239:ALA:HB3	2.05	0.71
1:J:204:PRO:HD2	1:K:202:GLY:CA	2.20	0.71
1:O:178:GLY:HA3	1:P:180:PRO:HD2	1.71	0.71
1:O:195:PRO:HA	1:P:196:GLY:CA	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:203:ALA:HB3	1:P:206:LEU:CB	2.21	0.71
1:P:205:GLY:HA3	1:Q:203:ALA:CB	2.20	0.71
1:Y:195:PRO:N	1:1:195:PRO:HD2	2.06	0.71
1:Y:201:GLN:HG2	1:Z:201:GLN:OE1	1.90	0.71
1:Z:221:LEU:N	1:1:221:LEU:HB3	2.05	0.71
1:Z:231:GLN:HB3	1:V:225:PRO:HG2	1.73	0.71
1:S:221:LEU:HG	1:T:224:ALA:CB	2.14	0.71
1:V:223:GLY:N	1:W:222:GLN:OE1	2.23	0.71
1:C:189:PRO:HB2	1:E:192:GLN:CB	2.21	0.71
1:C:213:PRO:HA	1:D:209:ALA:CB	2.19	0.71
1:J:205:GLY:HA2	1:J:207:GLN:HE22	1.53	0.71
1:Y:252:GLN:NE2	1:U:249:PRO:HB2	2.05	0.71
1:2:261:GLN:HA	1:4:263:ALA:H	1.56	0.71
1:R:219:PRO:HA	1:S:221:LEU:N	2.06	0.71
1:S:192:GLN:NE2	1:T:189:PRO:O	2.24	0.71
1:V:218:ALA:HB3	1:W:219:PRO:CB	2.21	0.71
1:A:176:LEU:O	1:A:177:GLN:HB3	1.91	0.71
1:O:211:GLY:HA3	1:P:214:GLY:N	2.05	0.71
1:Z:244:GLY:HA2	1:4:258:PRO:HD2	1.71	0.71
1:Z:256:GLY:HA2	1:2:267:GLN:CD	2.16	0.71
1:Z:258:PRO:HB2	1:Z:261:GLN:OE1	1.90	0.71
1:R:194:ALA:O	1:S:197:ALA:HB1	1.90	0.71
1:R:220:GLY:CA	1:S:222:GLN:HA	2.21	0.71
1:S:216:GLN:HB2	1:T:217:GLY:CA	2.13	0.71
1:T:216:GLN:HG2	1:T:217:GLY:H	1.55	0.71
1:U:233:ALA:HA	1:V:230:SER:HA	1.73	0.71
1:V:214:GLY:O	1:W:217:GLY:N	2.24	0.71
1:C:201:GLN:HG3	1:E:203:ALA:HB2	1.73	0.71
1:C:222:GLN:HG3	1:D:216:GLN:CG	2.20	0.71
1:C:228:PRO:HA	1:G:236:LEU:HD21	1.72	0.71
1:C:236:LEU:HB2	1:I:254:ALA:HB2	1.71	0.71
1:D:183:PRO:HA	1:E:184:GLY:CA	2.13	0.71
1:F:200:SER:O	1:H:201:GLN:HB3	1.91	0.71
1:J:200:SER:CB	1:K:198:PRO:HB2	2.21	0.71
1:L:222:GLN:HG3	1:M:216:GLN:CB	2.20	0.71
1:L:230:SER:N	1:N:227:ALA:O	2.23	0.71
1:Y:196:GLY:O	1:Z:198:PRO:HG2	1.91	0.71
1:Z:215:SER:OG	1:1:214:GLY:HA3	1.90	0.71
1:Z:217:GLY:CA	1:1:218:ALA:HA	2.21	0.71
1:3:216:GLN:HG3	1:4:218:ALA:N	2.06	0.71
1:J:219:PRO:O	1:K:221:LEU:HA	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:228:PRO:O	1:Q:231:GLN:HG2	1.91	0.71
1:Z:236:LEU:O	1:Z:239:ALA:HB2	1.90	0.71
1:2:213:PRO:HA	1:4:214:GLY:CA	2.21	0.71
1:2:225:PRO:CA	1:4:227:ALA:HB1	2.20	0.71
1:2:264:PRO:HD2	1:4:264:PRO:CA	2.20	0.71
1:X:164:ALA:HB2	1:A:163:GLY:HA3	1.73	0.70
1:A:221:LEU:HD23	1:A:223:GLY:H	1.56	0.70
1:C:198:PRO:HB2	1:E:200:SER:HB3	1.71	0.70
1:C:206:LEU:HD22	1:D:206:LEU:HD13	1.73	0.70
1:D:221:LEU:CB	1:K:240:PRO:HD2	2.21	0.70
1:G:243:PRO:HA	1:H:244:GLY:HA3	1.73	0.70
1:L:208:GLY:CA	1:M:210:PRO:HG3	2.17	0.70
1:M:239:ALA:HB1	1:N:243:PRO:HA	1.72	0.70
1:R:230:SER:HB3	1:R:234:PRO:CG	2.20	0.70
1:S:198:PRO:CA	1:T:198:PRO:HD2	2.16	0.70
1:U:187:GLY:HA2	1:W:187:GLY:H	1.56	0.70
1:U:203:ALA:HB1	1:V:206:LEU:HD21	1.71	0.70
1:X:187:GLY:CA	1:A:189:PRO:HA	2.20	0.70
1:X:208:GLY:HA3	1:A:208:GLY:O	1.92	0.70
1:C:198:PRO:HB3	1:E:198:PRO:CB	2.20	0.70
1:E:222:GLN:HA	1:J:236:LEU:CD2	2.19	0.70
1:F:181:GLY:HA3	1:G:183:PRO:CA	2.21	0.70
1:F:192:GLN:N	1:G:192:GLN:OE1	2.24	0.70
1:F:237:GLN:NE2	1:G:233:ALA:O	2.25	0.70
1:F:246:GLN:HA	1:G:246:GLN:C	2.16	0.70
1:I:188:ALA:HB1	1:I:189:PRO:HD2	1.73	0.70
1:L:201:GLN:O	1:M:201:GLN:HA	1.90	0.70
1:L:256:GLY:N	1:N:257:ALA:HA	2.06	0.70
1:M:244:GLY:HA2	1:N:245:SER:HB3	1.72	0.70
1:M:253:GLY:HA2	1:N:255:PRO:HD2	1.73	0.70
1:M:264:PRO:HG3	1:N:267:GLN:CB	2.20	0.70
1:O:211:GLY:HA3	1:P:214:GLY:H	1.56	0.70
1:P:227:ALA:HB3	1:T:245:SER:HB3	1.71	0.70
1:Y:243:PRO:HD3	1:Z:244:GLY:O	1.90	0.70
1:Z:237:GLN:O	1:2:248:ALA:HB3	1.91	0.70
1:S:186:GLN:HG2	1:T:183:PRO:HB2	1.73	0.70
1:U:215:SER:OG	1:U:218:ALA:HB3	1.91	0.70
1:X:216:GLN:H	1:A:213:PRO:HA	1.56	0.70
1:A:207:GLN:CB	1:B:206:LEU:HD12	2.20	0.70
1:C:191:LEU:HD23	1:K:209:ALA:HB2	1.74	0.70
1:D:191:LEU:HD21	1:H:202:GLY:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:192:GLN:HB2	1:H:195:PRO:HA	1.72	0.70
1:K:192:GLN:O	1:K:195:PRO:HD3	1.91	0.70
1:K:255:PRO:CB	1:M:266:LEU:HD11	2.20	0.70
1:L:211:GLY:CA	1:N:209:ALA:HB3	2.21	0.70
1:Y:229:GLY:HA2	1:V:221:LEU:HD11	1.73	0.70
1:Y:255:PRO:HA	1:1:256:GLY:O	1.91	0.70
1:Z:213:PRO:HD2	1:1:212:ALA:N	2.06	0.70
1:2:225:PRO:CB	1:4:228:PRO:HD2	2.22	0.70
1:R:176:LEU:HG	1:S:176:LEU:HD12	1.73	0.70
1:X:213:PRO:O	1:X:216:GLN:NE2	2.24	0.70
1:X:221:LEU:HD13	1:A:216:GLN:CG	2.21	0.70
1:E:213:PRO:HD3	1:K:228:PRO:CB	2.19	0.70
1:G:230:SER:O	1:H:231:GLN:HB2	1.91	0.70
1:I:223:GLY:HA3	1:Z:229:GLY:HA2	1.73	0.70
1:P:168:PRO:HB2	1:P:171:GLN:O	1.90	0.70
1:P:203:ALA:HA	1:Q:201:GLN:C	2.17	0.70
1:Y:218:ALA:H	1:Z:219:PRO:HB2	1.56	0.70
1:R:193:GLY:CA	1:W:204:PRO:HG3	2.21	0.70
1:R:236:LEU:N	1:T:239:ALA:HA	2.07	0.70
1:U:242:ALA:HB3	1:W:246:GLN:NE2	2.07	0.70
1:X:195:PRO:HB2	1:X:198:PRO:CD	2.21	0.70
1:X:218:ALA:HA	1:A:214:GLY:HA3	1.73	0.70
1:E:198:PRO:CB	1:K:213:PRO:HG3	2.21	0.70
1:F:200:SER:H	1:G:200:SER:HB3	1.55	0.70
1:I:212:ALA:H	1:J:214:GLY:HA2	1.55	0.70
1:J:206:LEU:HB2	1:K:204:PRO:CG	2.21	0.70
1:L:201:GLN:HG3	1:N:204:PRO:HG3	1.72	0.70
1:L:222:GLN:OE1	1:N:218:ALA:HB3	1.90	0.70
1:L:244:GLY:HA3	1:M:242:ALA:C	2.16	0.70
1:L:255:PRO:HG2	1:M:255:PRO:N	2.06	0.70
1:Y:196:GLY:O	1:1:197:ALA:HA	1.91	0.70
1:U:244:GLY:HA3	1:V:246:GLN:CG	2.20	0.70
1:X:189:PRO:CA	1:X:191:LEU:HD23	2.21	0.70
1:X:197:ALA:HB3	1:B:200:SER:CB	2.22	0.70
1:B:173:ALA:HB2	1:3:220:GLY:H	1.57	0.70
1:B:185:SER:OG	1:B:188:ALA:HB2	1.92	0.70
1:C:179:ALA:CA	1:D:180:PRO:HA	2.21	0.70
1:C:201:GLN:HG3	1:E:203:ALA:CA	2.21	0.70
1:C:203:ALA:CB	1:D:204:PRO:HG2	2.21	0.70
1:G:197:ALA:HB1	1:H:200:SER:CB	2.14	0.70
1:G:198:PRO:CB	1:H:198:PRO:HB2	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:208:GLY:N	1:H:210:PRO:HB3	2.06	0.70
1:I:229:GLY:HA2	1:J:230:SER:H	1.56	0.70
1:I:229:GLY:O	1:K:233:ALA:N	2.24	0.70
1:L:239:ALA:HA	1:M:238:GLY:CA	2.16	0.70
1:2:253:GLY:HA3	1:3:254:ALA:O	1.92	0.70
1:3:217:GLY:O	1:4:218:ALA:HA	1.91	0.70
1:R:177:GLN:HA	1:S:177:GLN:CB	2.12	0.70
1:U:252:GLN:HB2	1:V:248:ALA:HA	1.72	0.70
1:V:236:LEU:HG	1:W:239:ALA:H	1.56	0.70
1:X:212:ALA:CB	1:B:213:PRO:HG2	2.20	0.70
1:C:179:ALA:HB3	1:C:180:PRO:HD3	1.73	0.70
1:C:187:GLY:N	1:D:186:GLN:O	2.23	0.70
1:D:176:LEU:CD1	1:H:189:PRO:HD2	2.22	0.70
1:D:202:GLY:HA2	1:F:216:GLN:CG	2.15	0.70
1:F:198:PRO:HD2	1:G:200:SER:H	1.57	0.70
1:I:246:GLN:CG	1:K:245:SER:HB2	2.20	0.70
1:J:251:LEU:HD21	1:J:255:PRO:HB3	1.73	0.70
1:L:221:LEU:HB3	1:N:221:LEU:CA	2.21	0.70
1:L:243:PRO:CA	1:M:239:ALA:HA	2.21	0.70
1:Q:223:GLY:O	1:Q:225:PRO:HD3	1.92	0.70
1:2:262:GLY:N	1:3:264:PRO:HD2	2.07	0.70
1:R:219:PRO:HG3	1:T:222:GLN:CA	2.22	0.70
1:U:233:ALA:N	1:V:230:SER:OG	2.25	0.70
1:V:205:GLY:HA3	1:W:206:LEU:HB2	1.73	0.70
1:D:224:ALA:HA	1:K:243:PRO:CD	2.20	0.70
1:I:187:GLY:HA2	1:J:188:ALA:O	1.92	0.70
1:I:240:PRO:HG3	1:J:243:PRO:CD	2.22	0.70
1:Y:204:PRO:CG	1:Z:203:ALA:HB1	2.22	0.70
1:Y:230:SER:CA	1:1:231:GLN:HB2	2.22	0.70
1:R:220:GLY:HA3	1:S:222:GLN:HA	1.73	0.70
1:S:177:GLN:HA	1:T:174:PRO:O	1.91	0.70
1:U:206:LEU:HD22	1:V:206:LEU:HD12	1.74	0.70
1:U:233:ALA:H	1:U:234:PRO:HD2	1.55	0.70
1:A:207:GLN:HG3	1:B:210:PRO:CA	2.21	0.70
1:B:169:GLY:HA3	1:4:217:GLY:CA	2.21	0.70
1:C:234:PRO:C	1:D:232:GLY:HA2	2.17	0.70
1:F:210:PRO:HD3	1:H:209:ALA:H	1.56	0.70
1:I:233:ALA:HB3	1:K:235:GLY:HA2	1.74	0.70
1:I:246:GLN:CD	1:K:245:SER:HB2	2.16	0.70
1:J:213:PRO:HA	1:K:216:GLN:HE22	1.56	0.70
1:J:219:PRO:N	1:Y:221:LEU:HD11	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:216:GLN:HE22	1:1:219:PRO:HB2	1.57	0.70
1:Y:236:LEU:N	1:1:238:GLY:O	2.25	0.70
1:Z:198:PRO:HB2	1:1:198:PRO:CG	2.21	0.70
1:2:231:GLN:CB	1:4:233:ALA:HA	2.19	0.70
1:R:239:ALA:HB3	1:R:243:PRO:HG3	1.74	0.70
1:B:221:LEU:HD12	1:4:267:GLN:HA	1.73	0.70
1:E:239:ALA:CA	1:I:257:ALA:HB3	2.21	0.70
1:J:251:LEU:HD13	1:K:249:PRO:HB2	1.74	0.70
1:K:254:ALA:HB3	1:K:255:PRO:CD	2.22	0.70
1:P:210:PRO:HB3	1:Q:210:PRO:CG	2.18	0.70
1:P:214:GLY:O	1:Q:216:GLN:HB2	1.92	0.70
1:Y:236:LEU:HA	1:Z:240:PRO:CD	2.13	0.70
1:Z:235:GLY:HA3	1:2:246:GLN:HE22	1.56	0.70
1:Z:243:PRO:HD3	1:V:233:ALA:O	1.90	0.70
1:R:233:ALA:N	1:T:235:GLY:O	2.24	0.70
1:S:191:LEU:HG	1:T:190:GLY:CA	2.15	0.70
1:U:193:GLY:N	1:W:195:PRO:HD2	2.07	0.70
1:V:239:ALA:H	1:V:240:PRO:HD2	1.56	0.70
1:F:227:ALA:HB3	1:H:225:PRO:CA	2.18	0.69
1:J:219:PRO:HD3	1:K:218:ALA:CB	2.21	0.69
1:Z:215:SER:N	1:1:216:GLN:OE1	2.24	0.69
1:Z:236:LEU:CB	1:1:240:PRO:HG2	2.20	0.69
1:2:228:PRO:HA	1:4:230:SER:HA	1.73	0.69
1:2:252:GLN:HB2	1:4:256:GLY:H	1.55	0.69
1:4:252:GLN:HE22	1:4:254:ALA:HB3	1.56	0.69
1:F:207:GLN:HA	1:H:207:GLN:OE1	1.91	0.69
1:J:204:PRO:CD	1:K:202:GLY:HA2	2.19	0.69
1:P:220:GLY:H	1:Q:221:LEU:HA	1.57	0.69
1:Y:243:PRO:HG3	1:Z:244:GLY:HA2	1.74	0.69
1:Y:256:GLY:O	1:1:258:PRO:HD2	1.91	0.69
1:Y:259:GLY:CA	1:1:258:PRO:HB2	2.21	0.69
1:Z:201:GLN:H	1:1:200:SER:HA	1.57	0.69
1:S:231:GLN:HB2	1:U:244:GLY:CA	2.20	0.69
1:X:201:GLN:N	1:A:201:GLN:OE1	2.26	0.69
1:C:206:LEU:HG	1:D:207:GLN:O	1.92	0.69
1:D:194:ALA:HB3	1:H:206:LEU:HD22	1.73	0.69
1:E:179:ALA:HB3	1:E:180:PRO:HD3	1.73	0.69
1:F:211:GLY:C	1:H:213:PRO:HG2	2.17	0.69
1:F:212:ALA:HB2	1:H:213:PRO:CB	2.22	0.69
1:I:213:PRO:CG	1:K:213:PRO:HD2	2.22	0.69
1:I:246:GLN:NE2	1:K:245:SER:HB2	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:230:SER:HB3	1:N:229:GLY:N	2.06	0.69
1:L:240:PRO:HD2	1:M:238:GLY:CA	2.21	0.69
1:O:175:GLY:HA2	1:P:176:LEU:CA	2.18	0.69
1:P:199:GLY:C	1:Q:198:PRO:HB3	2.16	0.69
1:Y:244:GLY:N	1:V:235:GLY:O	2.25	0.69
1:Y:246:GLN:HG3	1:4:259:GLY:C	2.16	0.69
1:2:253:GLY:CA	1:4:253:GLY:HA2	2.21	0.69
1:R:190:GLY:HA2	1:W:200:SER:OG	1.92	0.69
1:U:246:GLN:NE2	1:W:245:SER:O	2.24	0.69
1:V:208:GLY:HA3	1:W:209:ALA:O	1.92	0.69
1:X:200:SER:HB3	1:A:201:GLN:HG2	1.72	0.69
1:B:168:PRO:HD2	1:3:214:GLY:CA	2.21	0.69
1:D:230:SER:OG	1:E:234:PRO:HG3	1.92	0.69
1:G:195:PRO:HB2	1:H:198:PRO:CG	2.21	0.69
1:G:207:GLN:CD	1:H:206:LEU:HB2	2.18	0.69
1:I:186:GLN:O	1:J:189:PRO:HA	1.92	0.69
1:L:229:GLY:HA2	1:M:226:GLY:CA	2.17	0.69
1:M:212:ALA:N	1:M:213:PRO:HD2	2.07	0.69
1:M:226:GLY:HA2	1:N:228:PRO:CB	2.22	0.69
1:O:203:ALA:HB2	1:1:236:LEU:O	1.91	0.69
1:Y:216:GLN:HB2	1:Z:219:PRO:HD3	1.73	0.69
1:3:257:ALA:HB1	1:4:257:ALA:N	2.07	0.69
1:S:240:PRO:CA	1:W:253:GLY:HA3	2.22	0.69
1:A:218:ALA:HB3	1:I:252:GLN:CD	2.18	0.69
1:I:206:LEU:HD22	1:K:206:LEU:HB2	1.75	0.69
1:J:236:LEU:HG	1:K:239:ALA:H	1.58	0.69
1:L:220:GLY:N	1:N:218:ALA:HB1	2.08	0.69
1:L:228:PRO:HB2	1:M:228:PRO:HG2	1.74	0.69
1:M:237:GLN:N	1:N:239:ALA:HB3	2.08	0.69
1:P:221:LEU:HB3	1:Q:222:GLN:O	1.92	0.69
1:Y:247:GLY:HA2	1:W:243:PRO:HD2	1.74	0.69
1:Z:237:GLN:HB2	1:V:231:GLN:CB	2.21	0.69
1:Z:252:GLN:H	1:1:250:GLY:HA3	1.57	0.69
1:4:213:PRO:HB2	1:4:216:GLN:HG2	1.72	0.69
1:U:210:PRO:O	1:V:211:GLY:N	2.26	0.69
1:A:195:PRO:HB3	1:J:225:PRO:CD	2.23	0.69
1:B:197:ALA:HB1	1:B:200:SER:HB3	1.73	0.69
1:I:230:SER:HA	1:K:233:ALA:H	1.56	0.69
1:L:251:LEU:C	1:N:252:GLN:HG2	2.18	0.69
1:L:267:GLN:HB3	1:M:267:GLN:CB	2.16	0.69
1:O:191:LEU:HG	1:P:193:GLY:HA2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:214:GLY:HA3	1:4:219:PRO:CD	2.22	0.69
1:2:222:GLN:HA	1:3:223:GLY:HA3	1.74	0.69
1:3:213:PRO:CB	1:4:213:PRO:HB3	2.23	0.69
1:R:234:PRO:CB	1:T:237:GLN:HG2	2.22	0.69
1:S:191:LEU:CG	1:T:190:GLY:HA3	2.17	0.69
1:B:170:SER:HA	1:3:216:GLN:CA	2.23	0.69
1:C:179:ALA:CB	1:E:181:GLY:HA2	2.21	0.69
1:C:187:GLY:HA2	1:D:187:GLY:CA	2.14	0.69
1:D:173:ALA:N	1:E:174:PRO:HB3	2.08	0.69
1:D:211:GLY:HA2	1:E:212:ALA:HA	1.75	0.69
1:J:239:ALA:HB3	1:1:245:SER:OG	1.93	0.69
1:J:243:PRO:N	1:Z:249:PRO:HG2	2.08	0.69
1:J:245:SER:HB3	1:J:248:ALA:HA	1.74	0.69
1:L:249:PRO:HA	1:N:249:PRO:O	1.91	0.69
1:Y:220:GLY:HA3	1:Z:221:LEU:O	1.93	0.69
1:2:251:LEU:O	1:2:252:GLN:HG2	1.92	0.69
1:3:223:GLY:CA	1:4:224:ALA:HB1	2.23	0.69
1:X:171:GLN:HB3	1:B:174:PRO:CB	2.23	0.69
1:X:186:GLN:HA	1:A:187:GLY:N	2.07	0.69
1:X:210:PRO:HG3	1:A:209:ALA:N	2.08	0.69
1:A:188:ALA:HB2	1:J:219:PRO:HB3	1.75	0.69
1:A:194:ALA:CA	1:B:198:PRO:HG3	2.22	0.69
1:A:207:GLN:HB3	1:B:206:LEU:CD1	2.23	0.69
1:C:191:LEU:O	1:C:192:GLN:HG2	1.92	0.69
1:C:206:LEU:HB3	1:C:209:ALA:O	1.92	0.69
1:C:230:SER:N	1:E:227:ALA:O	2.24	0.69
1:D:174:PRO:HG3	1:H:185:SER:HB2	1.73	0.69
1:E:171:GLN:HG3	1:K:188:ALA:HB3	1.75	0.69
1:I:212:ALA:N	1:J:214:GLY:HA2	2.07	0.69
1:I:240:PRO:HB3	1:J:241:GLY:HA2	1.73	0.69
1:I:242:ALA:O	1:J:246:GLN:HG2	1.92	0.69
1:J:221:LEU:HB2	1:K:222:GLN:O	1.92	0.69
1:K:252:GLN:HB2	1:1:257:ALA:HB3	1.73	0.69
1:L:219:PRO:HD2	1:N:218:ALA:HB2	1.75	0.69
1:L:227:ALA:CB	1:M:225:PRO:HA	2.21	0.69
1:L:228:PRO:HB2	1:M:228:PRO:CG	2.23	0.69
1:O:182:ALA:HB2	1:P:182:ALA:HB1	1.74	0.69
1:Y:229:GLY:N	1:V:221:LEU:HD21	2.07	0.69
1:Y:241:GLY:HA2	1:Z:244:GLY:O	1.93	0.69
1:Y:248:ALA:HB1	1:1:248:ALA:HB3	1.74	0.69
1:2:262:GLY:H	1:3:264:PRO:HD2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:203:ALA:HB2	1:4:204:PRO:HD2	1.74	0.69
1:R:194:ALA:HB1	1:R:197:ALA:HB3	1.75	0.69
1:R:216:GLN:HA	1:S:218:ALA:CB	2.23	0.69
1:U:252:GLN:HB2	1:V:249:PRO:HD2	1.75	0.69
1:V:240:PRO:HA	1:W:239:ALA:HB1	1.72	0.69
1:A:168:PRO:HD3	1:K:198:PRO:CG	2.23	0.69
1:B:180:PRO:HG2	1:2:225:PRO:HD3	1.75	0.69
1:C:195:PRO:CA	1:E:196:GLY:HA2	2.22	0.69
1:F:190:GLY:HA3	1:G:191:LEU:HG	1.74	0.69
1:F:195:PRO:HD2	1:H:194:ALA:HA	1.74	0.69
1:O:221:LEU:HD12	1:O:222:GLN:N	2.07	0.69
1:P:168:PRO:HD3	1:Q:168:PRO:CA	2.16	0.69
1:Y:230:SER:HB3	1:1:231:GLN:HG2	1.75	0.69
1:Y:257:ALA:HB1	1:Y:258:PRO:CD	2.23	0.69
1:Z:192:GLN:O	1:1:193:GLY:N	2.25	0.69
1:Z:204:PRO:CB	1:1:204:PRO:HD3	2.22	0.69
1:Z:214:GLY:HA3	1:Z:216:GLN:NE2	2.07	0.69
1:2:239:ALA:N	1:4:241:GLY:HA3	2.08	0.69
1:R:176:LEU:O	1:S:177:GLN:N	2.25	0.69
1:U:184:GLY:HA2	1:V:184:GLY:HA2	1.75	0.69
1:V:218:ALA:HB3	1:W:219:PRO:HB3	1.75	0.69
1:X:219:PRO:CD	1:A:214:GLY:HA3	2.22	0.69
1:B:225:PRO:HG2	1:2:273:PRO:HA	1.74	0.69
1:D:219:PRO:HG3	1:F:233:ALA:HB3	1.73	0.69
1:E:174:PRO:CD	1:K:188:ALA:HB1	2.23	0.69
1:F:212:ALA:HB3	1:F:216:GLN:OE1	1.93	0.69
1:F:219:PRO:O	1:H:219:PRO:HD2	1.93	0.69
1:Q:193:GLY:HA2	1:Z:224:ALA:HB1	1.73	0.69
1:Z:230:SER:H	1:1:233:ALA:HB2	1.58	0.69
1:R:230:SER:CB	1:S:234:PRO:HG3	2.20	0.69
1:S:246:GLN:NE2	1:T:242:ALA:HB3	2.08	0.69
1:W:244:GLY:N	1:W:246:GLN:OE1	2.26	0.69
1:G:234:PRO:HB2	1:H:238:GLY:HA2	1.74	0.68
1:J:201:GLN:O	1:K:201:GLN:HG2	1.93	0.68
1:J:215:SER:HA	1:K:216:GLN:HA	1.74	0.68
1:Y:251:LEU:HD22	1:U:251:LEU:CD2	2.23	0.68
1:Y:254:ALA:N	1:1:254:ALA:HA	2.08	0.68
1:R:196:GLY:HA2	1:S:198:PRO:C	2.17	0.68
1:R:236:LEU:HA	1:S:237:GLN:HG2	1.75	0.68
1:U:244:GLY:CA	1:V:246:GLN:HG3	2.22	0.68
1:V:226:GLY:O	1:W:227:ALA:HB1	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:161:LEU:HD23	1:X:162:GLN:N	2.09	0.68
1:X:206:LEU:HD21	1:K:237:GLN:HG3	1.76	0.68
1:A:198:PRO:HD3	1:D:211:GLY:HA3	1.75	0.68
1:B:161:LEU:O	1:B:161:LEU:HD23	1.93	0.68
1:F:177:GLN:CA	1:H:180:PRO:HA	2.23	0.68
1:F:233:ALA:HA	1:G:231:GLN:HB3	1.74	0.68
1:I:213:PRO:HG3	1:K:212:ALA:HB1	1.75	0.68
1:J:191:LEU:HB2	1:K:193:GLY:CA	2.24	0.68
1:J:191:LEU:O	1:J:191:LEU:HD12	1.92	0.68
1:L:222:GLN:OE1	1:M:216:GLN:HA	1.93	0.68
1:P:216:GLN:HG3	1:Q:217:GLY:CA	2.22	0.68
1:Y:211:GLY:N	1:Z:213:PRO:O	2.23	0.68
1:Z:192:GLN:N	1:1:191:LEU:O	2.27	0.68
1:T:206:LEU:CD1	1:U:219:PRO:HG3	2.19	0.68
1:U:207:GLN:CA	1:W:207:GLN:HB2	2.23	0.68
1:X:202:GLY:H	1:A:201:GLN:HA	1.58	0.68
1:C:215:SER:CB	1:D:213:PRO:HD2	2.23	0.68
1:E:191:LEU:HD11	1:J:205:GLY:O	1.92	0.68
1:F:216:GLN:CA	1:G:212:ALA:HB1	2.23	0.68
1:F:225:PRO:HG2	1:H:223:GLY:CA	2.22	0.68
1:G:198:PRO:HB3	1:H:198:PRO:HG2	1.76	0.68
1:I:220:GLY:HA2	1:Y:224:ALA:CA	2.21	0.68
1:J:253:GLY:HA3	1:K:252:GLN:CA	2.23	0.68
1:K:242:ALA:HB1	1:K:243:PRO:HD2	1.75	0.68
1:L:225:PRO:O	1:M:223:GLY:N	2.25	0.68
1:L:255:PRO:HG3	1:N:255:PRO:CB	2.19	0.68
1:M:259:GLY:C	1:N:263:ALA:HB2	2.18	0.68
1:O:165:PRO:O	1:Q:166:GLY:HA3	1.93	0.68
1:O:206:LEU:CA	1:Q:204:PRO:HB2	2.23	0.68
1:P:224:ALA:H	1:Q:224:ALA:HB1	1.58	0.68
1:Y:242:ALA:HB1	1:V:237:GLN:NE2	2.08	0.68
1:U:180:PRO:HA	1:W:180:PRO:O	1.92	0.68
1:U:230:SER:O	1:U:231:GLN:NE2	2.26	0.68
1:U:250:GLY:CA	1:W:252:GLN:HG3	2.23	0.68
1:X:157:GLY:HA2	1:A:154:GLY:O	1.93	0.68
1:C:198:PRO:CG	1:E:200:SER:HB3	2.23	0.68
1:C:200:SER:HB3	1:D:200:SER:H	1.58	0.68
1:I:248:ALA:HA	1:I:252:GLN:NE2	2.08	0.68
1:O:189:PRO:CB	1:Q:191:LEU:HD12	2.20	0.68
1:O:216:GLN:HG3	1:O:219:PRO:HG3	1.76	0.68
1:P:216:GLN:N	1:Q:216:GLN:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:219:PRO:HA	1:Q:221:LEU:C	2.19	0.68
1:1:248:ALA:HB1	1:1:251:LEU:CD1	2.23	0.68
1:R:200:SER:OG	1:U:211:GLY:N	2.27	0.68
1:R:211:GLY:HA2	1:T:211:GLY:O	1.94	0.68
1:R:212:ALA:HB1	1:W:225:PRO:CG	2.23	0.68
1:S:218:ALA:N	1:T:219:PRO:HD2	2.08	0.68
1:T:206:LEU:HD12	1:T:207:GLN:H	1.58	0.68
1:V:222:GLN:OE1	1:W:223:GLY:HA3	1.93	0.68
1:A:177:GLN:NE2	1:A:179:ALA:O	2.27	0.68
1:C:185:SER:HA	1:E:185:SER:HA	1.75	0.68
1:C:203:ALA:HB1	1:E:206:LEU:CD2	2.23	0.68
1:C:216:GLN:HB2	1:D:214:GLY:O	1.93	0.68
1:E:202:GLY:O	1:E:204:PRO:HD3	1.94	0.68
1:F:185:SER:HB3	1:H:187:GLY:HA3	1.74	0.68
1:G:246:GLN:HG3	1:H:246:GLN:HG2	1.74	0.68
1:Y:243:PRO:HB2	1:4:257:ALA:CB	2.24	0.68
1:2:225:PRO:HB3	1:4:228:PRO:HD2	1.75	0.68
1:3:240:PRO:HB2	1:3:243:PRO:CG	2.22	0.68
1:R:229:GLY:HA3	1:S:231:GLN:CB	2.23	0.68
1:U:245:SER:OG	1:V:243:PRO:HA	1.93	0.68
1:V:216:GLN:H	1:W:217:GLY:HA3	1.58	0.68
1:X:171:GLN:NE2	1:B:171:GLN:HA	2.08	0.68
1:B:206:LEU:HB3	1:B:210:PRO:HG3	1.74	0.68
1:D:183:PRO:HB3	1:E:183:PRO:O	1.94	0.68
1:D:212:ALA:HB3	1:E:214:GLY:H	1.57	0.68
1:L:200:SER:CA	1:N:200:SER:HA	2.21	0.68
1:L:255:PRO:HG2	1:M:254:ALA:C	2.18	0.68
1:P:177:GLN:OE1	1:Q:177:GLN:HB3	1.94	0.68
1:P:227:ALA:CB	1:T:245:SER:HB3	2.23	0.68
1:Y:251:LEU:CD2	1:U:251:LEU:HD21	2.21	0.68
1:2:243:PRO:HG3	1:4:242:ALA:HB3	1.76	0.68
1:R:221:LEU:CG	1:R:222:GLN:HG2	2.22	0.68
1:U:242:ALA:HB2	1:V:241:GLY:HA3	1.76	0.68
1:X:162:GLN:HB2	1:B:164:ALA:HB2	1.76	0.68
1:D:209:ALA:C	1:E:212:ALA:HB2	2.19	0.68
1:L:240:PRO:HB3	1:N:240:PRO:HB3	1.76	0.68
1:Z:234:PRO:HB3	1:1:237:GLN:HE21	1.57	0.68
1:2:214:GLY:HA2	1:3:216:GLN:C	2.19	0.68
1:3:218:ALA:N	1:4:219:PRO:HD2	2.07	0.68
1:S:195:PRO:CD	1:T:195:PRO:HG3	2.23	0.68
1:X:206:LEU:HB3	1:A:206:LEU:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:185:SER:HB3	1:E:186:GLN:OE1	1.94	0.68
1:F:249:PRO:C	1:G:249:PRO:HD2	2.19	0.68
1:G:233:ALA:C	1:H:234:PRO:HA	2.18	0.68
1:L:251:LEU:HD23	1:M:252:GLN:HA	1.74	0.68
1:L:255:PRO:HB2	1:M:255:PRO:HG3	1.76	0.68
1:L:258:PRO:HA	1:M:259:GLY:O	1.93	0.68
1:P:222:GLN:CA	1:Q:225:PRO:HD2	2.22	0.68
1:Q:191:LEU:HD13	1:Z:221:LEU:CD2	2.23	0.68
1:Y:218:ALA:O	1:1:222:GLN:HB3	1.93	0.68
1:Z:229:GLY:HA3	1:1:231:GLN:O	1.94	0.68
1:R:203:ALA:HB2	1:U:214:GLY:HA3	1.76	0.68
1:R:214:GLY:CA	1:T:216:GLN:HA	2.22	0.68
1:C:220:GLY:O	1:E:221:LEU:HA	1.94	0.68
1:J:231:GLN:NE2	1:L:244:GLY:O	2.27	0.68
1:K:228:PRO:HB2	1:K:231:GLN:NE2	2.09	0.68
1:L:253:GLY:HA2	1:N:251:LEU:CD2	2.24	0.68
1:L:265:GLY:HA3	1:N:267:GLN:O	1.92	0.68
1:M:202:GLY:C	1:M:204:PRO:HD3	2.19	0.68
1:O:180:PRO:HG3	1:Q:179:ALA:C	2.19	0.68
1:O:216:GLN:C	1:P:219:PRO:HD2	2.19	0.68
1:Y:200:SER:HB2	1:1:199:GLY:CA	2.24	0.68
1:Y:207:GLN:HE22	1:Z:206:LEU:HD22	1.59	0.68
1:Y:243:PRO:HA	1:Z:243:PRO:CB	2.24	0.68
1:Y:250:GLY:O	1:1:251:LEU:HD13	1.94	0.68
1:Z:191:LEU:HD23	1:1:193:GLY:HA2	1.76	0.68
1:2:259:GLY:CA	1:3:260:SER:HA	2.24	0.68
1:X:186:GLN:OE1	1:B:189:PRO:HA	1.94	0.68
1:A:218:ALA:O	1:B:220:GLY:HA3	1.93	0.68
1:E:209:ALA:HB2	1:J:224:ALA:CB	2.24	0.68
1:F:186:GLN:HB3	1:G:187:GLY:HA3	1.75	0.68
1:F:198:PRO:HB3	1:G:197:ALA:HA	1.76	0.68
1:J:237:GLN:HA	1:K:239:ALA:CB	2.24	0.68
1:K:255:PRO:HA	1:L:268:GLY:CA	2.24	0.68
1:L:243:PRO:HG3	1:M:238:GLY:O	1.94	0.68
1:O:210:PRO:HA	1:P:212:ALA:N	2.08	0.68
1:O:231:GLN:HA	1:P:231:GLN:CA	2.24	0.68
1:P:221:LEU:CD1	1:Q:224:ALA:HB2	2.23	0.68
1:Y:231:GLN:HB3	1:1:233:ALA:HB1	1.76	0.68
1:Y:243:PRO:HG2	1:Y:245:SER:O	1.94	0.68
1:2:270:PRO:CD	1:3:273:PRO:HA	2.24	0.68
1:3:227:ALA:H	1:4:229:GLY:HA2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:181:GLY:HA3	1:S:182:ALA:CA	2.24	0.68
1:A:215:SER:O	1:I:247:GLY:N	2.27	0.67
1:I:236:LEU:CB	1:K:236:LEU:HD11	2.22	0.67
1:L:226:GLY:HA2	1:M:223:GLY:H	1.59	0.67
1:P:224:ALA:HB2	1:Q:224:ALA:O	1.93	0.67
1:Y:228:PRO:CB	1:V:221:LEU:HD22	2.24	0.67
1:Y:249:PRO:HG2	1:4:261:GLN:NE2	2.09	0.67
1:Z:261:GLN:HG3	1:4:270:PRO:HB2	1.75	0.67
1:R:175:GLY:HA2	1:T:174:PRO:HD2	1.76	0.67
1:S:215:SER:HB3	1:W:225:PRO:HG3	1.75	0.67
1:U:192:GLN:HA	1:W:193:GLY:C	2.19	0.67
1:W:243:PRO:HB2	1:W:246:GLN:HB2	1.75	0.67
1:F:197:ALA:HB1	1:G:200:SER:HB2	1.76	0.67
1:H:186:GLN:OE1	1:H:186:GLN:N	2.27	0.67
1:I:221:LEU:CD1	1:Z:228:PRO:HD2	2.24	0.67
1:M:245:SER:CB	1:N:246:GLN:HG2	2.24	0.67
1:O:220:GLY:O	1:P:222:GLN:HB2	1.94	0.67
1:Y:195:PRO:HG3	1:I:195:PRO:CG	2.22	0.67
1:Y:239:ALA:HB3	1:V:234:PRO:HA	1.76	0.67
1:3:213:PRO:HB2	1:4:213:PRO:HB3	1.75	0.67
1:3:226:GLY:N	1:4:227:ALA:HB3	2.09	0.67
1:3:269:ALA:HB1	1:4:268:GLY:H	1.59	0.67
1:R:200:SER:CB	1:U:209:ALA:HA	2.23	0.67
1:R:212:ALA:HB1	1:W:225:PRO:HG3	1.75	0.67
1:V:215:SER:HB3	1:W:215:SER:HB2	1.74	0.67
1:G:194:ALA:O	1:H:195:PRO:HD2	1.94	0.67
1:L:212:ALA:HA	1:N:213:PRO:HG2	1.76	0.67
1:L:216:GLN:NE2	1:M:209:ALA:O	2.26	0.67
1:L:219:PRO:HG2	1:M:215:SER:CB	2.22	0.67
1:L:235:GLY:CA	1:N:234:PRO:HA	2.25	0.67
1:Z:243:PRO:CD	1:2:251:LEU:HD22	2.22	0.67
1:U:204:PRO:O	1:W:205:GLY:HA2	1.95	0.67
1:U:205:GLY:O	1:U:207:GLN:HG2	1.94	0.67
1:X:200:SER:CA	1:B:199:GLY:HA3	2.24	0.67
1:F:222:GLN:H	1:H:220:GLY:HA2	1.59	0.67
1:F:240:PRO:HG2	1:G:238:GLY:CA	2.23	0.67
1:J:208:GLY:CA	1:K:209:ALA:HA	2.25	0.67
1:J:235:GLY:C	1:K:237:GLN:HG2	2.20	0.67
1:M:220:GLY:HA2	1:O:183:PRO:CB	2.23	0.67
1:O:212:ALA:H	1:Q:212:ALA:HB1	1.58	0.67
1:3:207:GLN:HB2	1:4:208:GLY:CA	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:189:PRO:C	1:T:190:GLY:HA2	2.19	0.67
1:X:164:ALA:C	1:B:166:GLY:HA3	2.20	0.67
1:X:201:GLN:HG3	1:B:202:GLY:O	1.94	0.67
1:X:207:GLN:OE1	1:B:207:GLN:N	2.26	0.67
1:X:210:PRO:CB	1:B:213:PRO:HD3	2.25	0.67
1:X:222:GLN:OE1	1:A:216:GLN:HG2	1.95	0.67
1:B:199:GLY:HA2	1:B:201:GLN:NE2	2.09	0.67
1:D:209:ALA:O	1:E:212:ALA:N	2.27	0.67
1:F:191:LEU:HB3	1:G:192:GLN:OE1	1.93	0.67
1:F:225:PRO:O	1:H:224:ALA:N	2.27	0.67
1:G:198:PRO:HB3	1:H:198:PRO:CG	2.25	0.67
1:O:179:ALA:H	1:Q:178:GLY:HA3	1.60	0.67
1:O:185:SER:HB3	1:P:184:GLY:O	1.94	0.67
1:O:227:ALA:N	1:P:227:ALA:O	2.27	0.67
1:Y:237:GLN:HG3	1:1:239:ALA:HB1	1.77	0.67
1:2:235:GLY:CA	1:3:237:GLN:HA	2.23	0.67
1:3:250:GLY:O	1:4:250:GLY:N	2.27	0.67
1:R:229:GLY:O	1:T:231:GLN:HB3	1.94	0.67
1:R:239:ALA:HB2	1:T:242:ALA:N	2.09	0.67
1:V:250:GLY:O	1:V:251:LEU:HD23	1.93	0.67
1:C:239:ALA:O	1:E:236:LEU:HB3	1.95	0.67
1:D:182:ALA:HB2	1:I:197:ALA:HB2	1.76	0.67
1:D:225:PRO:CD	1:K:243:PRO:HD2	2.24	0.67
1:F:242:ALA:HB2	1:G:237:GLN:HG3	1.76	0.67
1:I:185:SER:HB2	1:J:188:ALA:HA	1.75	0.67
1:I:246:GLN:HG3	1:K:247:GLY:CA	2.24	0.67
1:K:191:LEU:HD23	1:N:203:ALA:HB2	1.75	0.67
1:L:221:LEU:HD22	1:N:220:GLY:C	2.20	0.67
1:L:243:PRO:HA	1:M:239:ALA:HA	1.76	0.67
1:L:255:PRO:HB2	1:M:255:PRO:CB	2.25	0.67
1:O:188:ALA:CB	1:P:189:PRO:HA	2.23	0.67
1:P:180:PRO:CB	1:Q:176:LEU:HD12	2.23	0.67
1:Y:243:PRO:CD	1:Z:246:GLN:HG2	2.25	0.67
1:2:270:PRO:HA	1:4:269:ALA:CB	2.23	0.67
1:R:230:SER:CB	1:R:234:PRO:HG2	2.24	0.67
1:X:203:ALA:HA	1:A:203:ALA:H	1.60	0.67
1:X:210:PRO:HA	1:A:210:PRO:CG	2.25	0.67
1:C:227:ALA:HB3	1:E:225:PRO:HA	1.75	0.67
1:C:228:PRO:CG	1:F:236:LEU:HD21	2.24	0.67
1:F:216:GLN:HA	1:G:212:ALA:HB1	1.76	0.67
1:O:197:ALA:C	1:Q:198:PRO:HD2	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:239:ALA:HB2	1:V:234:PRO:HG3	1.76	0.67
1:Y:255:PRO:HD2	1:Z:257:ALA:HA	1.76	0.67
1:R:204:PRO:HD2	1:T:204:PRO:N	2.09	0.67
1:S:213:PRO:HD2	1:T:211:GLY:CA	2.25	0.67
1:U:194:ALA:HB2	1:W:194:ALA:CB	2.17	0.67
1:X:179:ALA:HB3	1:X:180:PRO:HD3	1.76	0.67
1:D:221:LEU:HD13	1:J:236:LEU:CB	2.25	0.67
1:F:209:ALA:CB	1:G:210:PRO:HD3	2.24	0.67
1:J:252:GLN:NE2	1:K:250:GLY:HA2	2.10	0.67
1:J:255:PRO:O	1:L:263:ALA:HB3	1.95	0.67
1:L:251:LEU:O	1:N:252:GLN:N	2.27	0.67
1:L:256:GLY:H	1:N:257:ALA:HA	1.60	0.67
1:M:247:GLY:N	1:N:249:PRO:HD2	2.08	0.67
1:O:209:ALA:HA	1:P:210:PRO:HG2	1.76	0.67
1:O:210:PRO:HD3	1:P:210:PRO:HB3	1.77	0.67
1:O:216:GLN:O	1:O:219:PRO:HD3	1.95	0.67
1:Y:198:PRO:HA	1:1:198:PRO:O	1.94	0.67
1:Y:254:ALA:H	1:1:254:ALA:HA	1.60	0.67
1:Z:235:GLY:HA2	1:Z:237:GLN:OE1	1.95	0.67
1:R:189:PRO:CD	1:T:186:GLN:HB3	2.25	0.67
1:R:240:PRO:CG	1:T:245:SER:HA	2.25	0.67
1:S:180:PRO:HB3	1:T:180:PRO:CA	2.24	0.67
1:B:172:GLY:CA	1:3:219:PRO:HA	2.25	0.67
1:B:190:GLY:O	1:B:192:GLN:NE2	2.28	0.67
1:F:192:GLN:HG2	1:H:192:GLN:HB3	1.75	0.67
1:F:221:LEU:HG	1:H:219:PRO:CB	2.24	0.67
1:F:222:GLN:HG3	1:G:216:GLN:HB3	1.76	0.67
1:I:194:ALA:HB2	1:N:206:LEU:CB	2.22	0.67
1:I:196:GLY:C	1:I:198:PRO:HD3	2.20	0.67
1:J:207:GLN:HB2	1:K:207:GLN:HB3	1.77	0.67
1:L:233:ALA:HA	1:M:231:GLN:CB	2.18	0.67
1:M:231:GLN:HB2	1:N:230:SER:OG	1.95	0.67
1:M:253:GLY:O	1:N:255:PRO:HG2	1.95	0.67
1:O:176:LEU:HD21	1:P:178:GLY:HA2	1.76	0.67
1:P:205:GLY:O	1:Q:207:GLN:HG2	1.94	0.67
1:Y:229:GLY:HA3	1:Z:231:GLN:CD	2.18	0.67
1:Y:250:GLY:HA2	1:Z:253:GLY:N	2.10	0.67
1:Z:213:PRO:HB2	1:1:212:ALA:CB	2.25	0.67
1:Z:221:LEU:HB3	1:1:223:GLY:CA	2.24	0.67
1:2:216:GLN:HB3	1:4:222:GLN:CG	2.25	0.67
1:R:178:GLY:N	1:S:177:GLN:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:180:PRO:CA	1:S:180:PRO:HB2	2.24	0.67
1:R:211:GLY:N	1:U:224:ALA:O	2.28	0.67
1:R:213:PRO:HG2	1:U:228:PRO:CA	2.24	0.67
1:T:225:PRO:HG2	1:U:237:GLN:HB2	1.77	0.67
1:X:164:ALA:CB	1:A:163:GLY:HA3	2.25	0.67
1:X:227:ALA:HB3	1:4:273:PRO:C	2.20	0.67
1:A:179:ALA:O	1:B:180:PRO:HA	1.94	0.67
1:B:169:GLY:HA3	1:4:217:GLY:HA2	1.75	0.67
1:E:219:PRO:CB	1:J:234:PRO:HB2	2.24	0.67
1:F:193:GLY:HA2	1:H:195:PRO:CG	2.24	0.67
1:F:205:GLY:HA2	1:G:203:ALA:HB1	1.76	0.67
1:I:216:GLN:HB3	1:K:222:GLN:NE2	2.09	0.67
1:I:256:GLY:HA3	1:K:257:ALA:O	1.95	0.67
1:O:189:PRO:HA	1:Q:188:ALA:C	2.20	0.67
1:P:201:GLN:HB2	1:Q:200:SER:CB	2.25	0.67
1:Q:186:GLN:NE2	1:S:201:GLN:O	2.28	0.67
1:Y:204:PRO:C	1:1:204:PRO:HB3	2.20	0.67
1:Y:231:GLN:N	1:1:234:PRO:HD2	2.09	0.67
1:Z:195:PRO:HD3	1:1:192:GLN:CB	2.09	0.67
1:3:212:ALA:HB1	1:4:211:GLY:CA	2.25	0.67
1:U:189:PRO:HB3	1:W:192:GLN:HB3	1.77	0.67
1:A:224:ALA:HB3	1:4:276:GLN:HA	1.76	0.66
1:E:214:GLY:O	1:E:215:SER:HB2	1.95	0.66
1:L:247:GLY:CA	1:M:246:GLN:HA	2.25	0.66
1:Y:204:PRO:N	1:1:204:PRO:HA	2.10	0.66
1:Y:231:GLN:OE1	1:1:233:ALA:HB1	1.94	0.66
1:2:206:LEU:HD23	1:2:208:GLY:H	1.60	0.66
1:2:212:ALA:HB3	1:4:213:PRO:CA	2.25	0.66
1:3:225:PRO:C	1:4:227:ALA:HB3	2.19	0.66
1:3:234:PRO:HB3	1:4:234:PRO:O	1.95	0.66
1:4:252:GLN:NE2	1:4:255:PRO:HD3	2.10	0.66
1:R:180:PRO:HA	1:S:180:PRO:HB2	1.75	0.66
1:S:189:PRO:O	1:T:189:PRO:HB3	1.95	0.66
1:S:231:GLN:HG3	1:S:233:ALA:H	1.59	0.66
1:U:186:GLN:HG3	1:V:188:ALA:HB2	1.76	0.66
1:X:212:ALA:N	1:A:210:PRO:HB3	2.10	0.66
1:D:180:PRO:O	1:J:198:PRO:HB3	1.95	0.66
1:F:202:GLY:N	1:H:201:GLN:OE1	2.28	0.66
1:F:207:GLN:HG3	1:H:207:GLN:CD	2.20	0.66
1:F:216:GLN:N	1:G:212:ALA:HB1	2.10	0.66
1:Z:202:GLY:C	1:1:201:GLN:HB2	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:243:PRO:HB3	1:V:235:GLY:H	1.60	0.66
1:2:237:GLN:HE21	1:3:241:GLY:HA3	1.60	0.66
1:3:236:LEU:HD12	1:4:237:GLN:CB	2.21	0.66
1:S:238:GLY:HA2	1:W:252:GLN:CD	2.20	0.66
1:E:174:PRO:HD2	1:K:189:PRO:O	1.95	0.66
1:F:202:GLY:HA2	1:H:203:ALA:CA	2.20	0.66
1:F:203:ALA:O	1:G:204:PRO:HD2	1.95	0.66
1:G:227:ALA:N	1:H:229:GLY:O	2.28	0.66
1:I:231:GLN:HB2	1:J:230:SER:O	1.95	0.66
1:M:212:ALA:HB2	1:N:213:PRO:O	1.95	0.66
1:M:219:PRO:HA	1:N:220:GLY:CA	2.25	0.66
1:O:212:ALA:HB3	1:P:215:SER:H	1.60	0.66
1:Y:224:ALA:HB1	1:Z:228:PRO:CD	2.24	0.66
1:Z:204:PRO:HD2	1:1:202:GLY:O	1.94	0.66
1:Z:206:LEU:CD2	1:1:204:PRO:HB2	2.25	0.66
1:3:212:ALA:HA	1:4:210:PRO:HA	1.76	0.66
1:U:210:PRO:HA	1:V:209:ALA:O	1.95	0.66
1:V:236:LEU:HA	1:W:238:GLY:C	2.21	0.66
1:X:186:GLN:HB2	1:A:185:SER:O	1.95	0.66
1:C:235:GLY:O	1:C:237:GLN:NE2	2.28	0.66
1:F:250:GLY:N	1:H:249:PRO:O	2.28	0.66
1:I:242:ALA:HB3	1:J:245:SER:CA	2.23	0.66
1:L:216:GLN:HG2	1:M:213:PRO:CD	2.26	0.66
1:L:258:PRO:HB3	1:N:260:SER:HA	1.77	0.66
1:M:207:GLN:HG3	1:N:207:GLN:N	2.10	0.66
1:M:224:ALA:HB3	1:N:225:PRO:C	2.20	0.66
1:2:231:GLN:HB2	1:3:230:SER:CB	2.25	0.66
1:R:206:LEU:HD13	1:T:205:GLY:C	2.20	0.66
1:R:220:GLY:O	1:T:225:PRO:HD2	1.95	0.66
1:S:177:GLN:HB3	1:T:177:GLN:H	1.60	0.66
1:U:221:LEU:O	1:U:222:GLN:NE2	2.28	0.66
1:U:235:GLY:HA3	1:V:231:GLN:C	2.21	0.66
1:V:223:GLY:C	1:V:225:PRO:HD3	2.21	0.66
1:X:192:GLN:O	1:B:195:PRO:HG3	1.95	0.66
1:X:196:GLY:O	1:B:197:ALA:HA	1.96	0.66
1:X:221:LEU:HD12	1:B:220:GLY:CA	2.25	0.66
1:C:225:PRO:HD2	1:D:220:GLY:CA	2.21	0.66
1:F:197:ALA:HB1	1:G:200:SER:HA	1.78	0.66
1:I:198:PRO:HB3	1:N:208:GLY:C	2.20	0.66
1:I:244:GLY:HA2	1:K:243:PRO:HG2	1.76	0.66
1:I:257:ALA:CA	1:J:257:ALA:HA	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:251:LEU:HB3	1:M:251:LEU:O	1.95	0.66
1:O:222:GLN:HA	1:P:222:GLN:O	1.95	0.66
1:O:228:PRO:HD3	1:T:245:SER:H	1.59	0.66
1:P:204:PRO:CB	1:T:218:ALA:HB2	2.25	0.66
1:P:226:GLY:HA2	1:Q:227:ALA:HB3	1.76	0.66
1:Y:201:GLN:HA	1:1:201:GLN:N	2.10	0.66
1:Y:245:SER:C	1:Z:246:GLN:HG3	2.21	0.66
1:Y:245:SER:CA	1:Z:246:GLN:HG3	2.26	0.66
1:Z:255:PRO:O	1:2:266:LEU:HG	1.95	0.66
1:A:215:SER:C	1:B:217:GLY:HA3	2.21	0.66
1:C:186:GLN:HG2	1:D:186:GLN:HG3	1.78	0.66
1:C:206:LEU:HD23	1:D:206:LEU:C	2.21	0.66
1:C:215:SER:HB3	1:D:213:PRO:HD2	1.78	0.66
1:E:222:GLN:CD	1:K:240:PRO:HG3	2.21	0.66
1:F:192:GLN:O	1:G:193:GLY:N	2.28	0.66
1:F:215:SER:HB2	1:G:215:SER:CA	2.25	0.66
1:G:194:ALA:C	1:H:195:PRO:HG2	2.20	0.66
1:I:197:ALA:N	1:I:198:PRO:HD3	2.10	0.66
1:I:206:LEU:HD12	1:Z:213:PRO:C	2.21	0.66
1:J:220:GLY:C	1:K:221:LEU:HD23	2.21	0.66
1:L:238:GLY:H	1:N:236:LEU:HA	1.59	0.66
1:O:228:PRO:O	1:Q:231:GLN:N	2.28	0.66
1:P:215:SER:HA	1:Q:216:GLN:CA	2.25	0.66
1:S:197:ALA:HB2	1:T:195:PRO:CG	2.22	0.66
1:S:236:LEU:HD22	1:V:255:PRO:CG	2.25	0.66
1:X:192:GLN:HB3	1:B:195:PRO:CA	2.21	0.66
1:X:207:GLN:HE22	1:B:206:LEU:HD13	1.60	0.66
1:C:236:LEU:HD12	1:D:234:PRO:O	1.95	0.66
1:F:222:GLN:CB	1:G:219:PRO:HB3	2.25	0.66
1:G:190:GLY:CA	1:H:191:LEU:HD23	2.19	0.66
1:I:215:SER:O	1:K:219:PRO:HD2	1.96	0.66
1:L:219:PRO:CD	1:N:218:ALA:HB2	2.25	0.66
1:M:237:GLN:OE1	1:N:241:GLY:N	2.29	0.66
1:Y:239:ALA:HA	1:1:242:ALA:H	1.61	0.66
1:3:207:GLN:O	1:4:207:GLN:HG3	1.95	0.66
1:3:216:GLN:NE2	1:4:215:SER:HB2	2.11	0.66
1:R:180:PRO:HB3	1:S:180:PRO:HB2	1.75	0.66
1:R:194:ALA:C	1:S:197:ALA:HB1	2.21	0.66
1:R:231:GLN:N	1:T:234:PRO:HD2	2.10	0.66
1:S:197:ALA:HB3	1:T:196:GLY:C	2.21	0.66
1:S:201:GLN:N	1:T:199:GLY:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:204:PRO:HD3	1:B:204:PRO:CD	2.26	0.66
1:C:170:SER:HB2	1:D:171:GLN:H	1.61	0.66
1:C:224:ALA:HB2	1:E:221:LEU:HG	1.77	0.66
1:F:192:GLN:HA	1:H:192:GLN:O	1.95	0.66
1:F:198:PRO:HG3	1:H:200:SER:CB	2.25	0.66
1:F:200:SER:N	1:G:200:SER:HB3	2.11	0.66
1:I:195:PRO:HA	1:J:198:PRO:CG	2.23	0.66
1:I:224:ALA:HB1	1:J:228:PRO:CG	2.26	0.66
1:M:264:PRO:HA	1:N:268:GLY:HA2	1.77	0.66
1:O:169:GLY:HA3	1:P:168:PRO:CG	2.25	0.66
1:O:204:PRO:C	1:Q:204:PRO:HG3	2.19	0.66
1:P:200:SER:HA	1:Q:199:GLY:O	1.96	0.66
1:Z:232:GLY:C	1:V:225:PRO:HB2	2.21	0.66
1:Z:238:GLY:CA	1:2:251:LEU:HD21	2.26	0.66
1:3:223:GLY:HA2	1:4:225:PRO:HD2	1.78	0.66
1:R:208:GLY:C	1:T:209:ALA:HB3	2.20	0.66
1:S:207:GLN:CG	1:T:207:GLN:HG3	2.24	0.66
1:X:201:GLN:HG3	1:B:202:GLY:C	2.21	0.66
1:A:191:LEU:C	1:A:192:GLN:HG3	2.21	0.66
1:E:219:PRO:HA	1:J:234:PRO:O	1.96	0.66
1:J:230:SER:HB2	1:1:238:GLY:HA2	1.77	0.66
1:L:252:GLN:O	1:N:251:LEU:HG	1.96	0.66
1:O:185:SER:HA	1:P:186:GLN:HG2	1.77	0.66
1:Y:212:ALA:O	1:1:214:GLY:N	2.28	0.66
1:Z:257:ALA:C	1:W:253:GLY:HA2	2.21	0.66
1:1:228:PRO:HD3	1:3:236:LEU:HD11	1.77	0.66
1:3:203:ALA:HA	1:4:204:PRO:N	2.11	0.66
1:S:177:GLN:HG2	1:T:174:PRO:HG2	1.78	0.66
1:U:234:PRO:C	1:V:230:SER:HB3	2.21	0.66
1:V:229:GLY:O	1:W:231:GLN:HA	1.96	0.66
1:X:159:PRO:HG3	1:J:189:PRO:CD	2.26	0.66
1:A:192:GLN:NE2	1:J:222:GLN:HG3	2.11	0.66
1:A:194:ALA:HB1	1:B:198:PRO:HB3	1.78	0.66
1:D:188:ALA:H	1:E:189:PRO:HA	1.59	0.66
1:I:255:PRO:HB2	1:K:257:ALA:HB2	1.77	0.66
1:O:210:PRO:HB2	1:Q:212:ALA:CA	2.24	0.66
1:Y:249:PRO:CA	1:W:247:GLY:HA2	2.20	0.66
1:Y:251:LEU:CD2	1:U:249:PRO:HG3	2.26	0.66
1:Z:259:GLY:CA	1:S:240:PRO:HB2	2.22	0.66
1:2:212:ALA:HB3	1:4:213:PRO:HA	1.77	0.66
1:R:206:LEU:HA	1:T:206:LEU:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:219:PRO:CG	1:T:222:GLN:HB2	2.26	0.66
1:U:253:GLY:HA2	1:V:252:GLN:N	2.11	0.66
1:X:181:GLY:C	1:B:183:PRO:HG2	2.21	0.65
1:A:203:ALA:HB3	1:A:204:PRO:CD	2.26	0.65
1:A:215:SER:O	1:B:217:GLY:HA3	1.95	0.65
1:C:181:GLY:O	1:C:183:PRO:HD3	1.95	0.65
1:E:219:PRO:HB3	1:K:234:PRO:HG2	1.77	0.65
1:F:198:PRO:HD3	1:G:198:PRO:N	2.12	0.65
1:F:212:ALA:N	1:H:213:PRO:HG2	2.11	0.65
1:I:203:ALA:HB2	1:Z:210:PRO:HG2	1.78	0.65
1:J:243:PRO:HG3	1:K:244:GLY:O	1.96	0.65
1:P:213:PRO:CB	1:Q:216:GLN:HG2	2.21	0.65
1:Z:213:PRO:CD	1:1:211:GLY:HA2	2.26	0.65
1:Z:237:GLN:CG	1:W:230:SER:HA	2.25	0.65
1:R:215:SER:HB2	1:U:230:SER:CB	2.26	0.65
1:T:181:GLY:O	1:T:183:PRO:HD3	1.95	0.65
1:X:200:SER:CB	1:A:201:GLN:HG2	2.26	0.65
1:D:196:GLY:O	1:H:209:ALA:HB1	1.96	0.65
1:D:209:ALA:HB3	1:E:212:ALA:CB	2.25	0.65
1:E:233:ALA:CB	1:F:247:GLY:HA2	2.26	0.65
1:J:188:ALA:CB	1:K:189:PRO:HB3	2.27	0.65
1:J:215:SER:OG	1:K:219:PRO:HD3	1.96	0.65
1:K:255:PRO:CA	1:L:268:GLY:HA3	2.27	0.65
1:M:237:GLN:CA	1:N:239:ALA:HB3	2.25	0.65
1:O:179:ALA:HB2	1:P:180:PRO:CB	2.24	0.65
1:O:182:ALA:HB2	1:P:182:ALA:C	2.22	0.65
1:Z:213:PRO:C	1:1:212:ALA:HB2	2.21	0.65
1:Z:242:ALA:HB1	1:Z:243:PRO:HD2	1.76	0.65
1:3:213:PRO:CA	1:4:210:PRO:HB2	2.26	0.65
1:D:232:GLY:HA3	1:E:234:PRO:HB3	1.77	0.65
1:F:236:LEU:HA	1:G:234:PRO:O	1.96	0.65
1:G:207:GLN:C	1:H:210:PRO:HB3	2.21	0.65
1:G:213:PRO:HD2	1:H:214:GLY:C	2.20	0.65
1:I:185:SER:HB2	1:J:189:PRO:CD	2.26	0.65
1:I:235:GLY:N	1:J:238:GLY:HA3	2.12	0.65
1:J:190:GLY:N	1:K:188:ALA:O	2.29	0.65
1:M:221:LEU:N	1:O:183:PRO:O	2.29	0.65
1:P:173:ALA:HA	1:Q:171:GLN:OE1	1.96	0.65
1:P:226:GLY:C	1:Q:227:ALA:HB3	2.21	0.65
1:Y:204:PRO:CB	1:1:204:PRO:HB3	2.25	0.65
1:Y:222:GLN:NE2	1:1:224:ALA:HB1	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:204:PRO:HG2	1:T:204:PRO:HB3	1.76	0.65
1:S:199:GLY:HA3	1:T:197:ALA:HB1	1.78	0.65
1:C:182:ALA:HA	1:H:194:ALA:HB3	1.77	0.65
1:D:234:PRO:HB2	1:I:257:ALA:C	2.22	0.65
1:J:237:GLN:CD	1:K:239:ALA:HB1	2.21	0.65
1:J:245:SER:O	1:J:246:GLN:HG3	1.95	0.65
1:L:206:LEU:HG	1:M:207:GLN:O	1.96	0.65
1:L:249:PRO:HG3	1:N:249:PRO:CB	2.27	0.65
1:O:169:GLY:HA2	1:P:170:SER:C	2.21	0.65
1:O:211:GLY:C	1:Q:213:PRO:HD2	2.20	0.65
1:Y:208:GLY:CA	1:1:206:LEU:HD13	2.27	0.65
1:Y:236:LEU:CA	1:Z:239:ALA:HB1	2.25	0.65
1:Z:192:GLN:CD	1:1:191:LEU:HA	2.22	0.65
1:2:203:ALA:O	1:2:206:LEU:HB2	1.97	0.65
1:2:228:PRO:HA	1:4:229:GLY:O	1.96	0.65
1:2:231:GLN:OE1	1:4:233:ALA:HB1	1.97	0.65
1:2:242:ALA:HB3	1:4:246:GLN:CB	2.22	0.65
1:2:243:PRO:HD2	1:3:242:ALA:O	1.97	0.65
1:S:238:GLY:HA2	1:W:252:GLN:CG	2.26	0.65
1:U:245:SER:O	1:W:246:GLN:HG3	1.96	0.65
1:U:247:GLY:HA3	1:V:249:PRO:CB	2.25	0.65
1:U:251:LEU:HA	1:W:252:GLN:HE21	1.62	0.65
1:V:195:PRO:HB3	1:W:197:ALA:C	2.21	0.65
1:X:194:ALA:O	1:B:194:ALA:N	2.29	0.65
1:B:207:GLN:O	1:B:210:PRO:HD3	1.97	0.65
1:F:202:GLY:CA	1:H:204:PRO:HD2	2.17	0.65
1:F:225:PRO:HD2	1:H:221:LEU:O	1.97	0.65
1:G:231:GLN:HA	1:H:231:GLN:HA	1.79	0.65
1:I:236:LEU:HD23	1:I:237:GLN:N	2.12	0.65
1:M:204:PRO:HD2	1:N:204:PRO:HB3	1.78	0.65
1:M:241:GLY:C	1:N:242:ALA:HB3	2.22	0.65
1:O:206:LEU:N	1:Q:204:PRO:HB2	2.12	0.65
1:O:222:GLN:HB3	1:Q:226:GLY:HA2	1.78	0.65
1:Y:230:SER:OG	1:W:226:GLY:HA2	1.96	0.65
1:Y:254:ALA:CA	1:Z:258:PRO:HD3	2.25	0.65
1:2:252:GLN:HA	1:4:251:LEU:HD23	1.77	0.65
1:2:273:PRO:HB2	1:3:276:GLN:HB3	1.78	0.65
1:3:218:ALA:HB1	1:4:220:GLY:O	1.96	0.65
1:3:249:PRO:HB2	1:4:249:PRO:HA	1.79	0.65
1:R:205:GLY:HA3	1:S:206:LEU:N	2.12	0.65
1:T:229:GLY:O	1:T:230:SER:HB3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:182:ALA:HB1	1:U:185:SER:CA	2.22	0.65
1:U:219:PRO:HG2	1:U:222:GLN:CA	2.13	0.65
1:V:204:PRO:O	1:W:206:LEU:HB2	1.97	0.65
1:X:218:ALA:N	1:B:216:GLN:O	2.29	0.65
1:C:175:GLY:N	1:E:177:GLN:HA	2.10	0.65
1:C:203:ALA:N	1:E:204:PRO:HD2	2.11	0.65
1:C:239:ALA:CA	1:D:236:LEU:HB2	2.27	0.65
1:I:257:ALA:HB2	1:J:257:ALA:CA	2.27	0.65
1:L:212:ALA:HB3	1:L:213:PRO:HD3	1.77	0.65
1:O:177:GLN:CB	1:Q:178:GLY:HA2	2.27	0.65
1:O:230:SER:N	1:Q:231:GLN:HB2	2.12	0.65
1:Y:231:GLN:NE2	1:Y:233:ALA:HB2	2.12	0.65
1:Y:236:LEU:HD12	1:Y:237:GLN:N	2.11	0.65
1:3:219:PRO:HB2	1:4:221:LEU:HG	1.78	0.65
1:R:193:GLY:C	1:R:195:PRO:HD3	2.21	0.65
1:R:234:PRO:HA	1:T:236:LEU:O	1.97	0.65
1:U:196:GLY:HA2	1:W:196:GLY:O	1.95	0.65
1:B:207:GLN:N	1:B:207:GLN:OE1	2.30	0.65
1:D:227:ALA:HB3	1:E:230:SER:HA	1.78	0.65
1:I:249:PRO:HG2	1:K:249:PRO:CD	2.26	0.65
1:I:249:PRO:HG2	1:K:249:PRO:HD3	1.79	0.65
1:J:207:GLN:N	1:K:207:GLN:HA	2.11	0.65
1:L:266:LEU:HD21	1:M:265:GLY:HA3	1.78	0.65
1:M:237:GLN:HG3	1:M:240:PRO:HG3	1.79	0.65
1:O:200:SER:H	1:Q:200:SER:HB2	1.62	0.65
1:O:227:ALA:HB3	1:P:231:GLN:OE1	1.97	0.65
1:P:177:GLN:HA	1:Q:175:GLY:CA	2.25	0.65
1:2:219:PRO:HB3	1:4:222:GLN:O	1.97	0.65
1:3:251:LEU:HD22	1:3:255:PRO:CB	2.26	0.65
1:U:212:ALA:HA	1:V:210:PRO:CB	2.26	0.65
1:V:187:GLY:HA3	1:W:189:PRO:CB	2.26	0.65
1:X:187:GLY:O	1:X:190:GLY:N	2.30	0.65
1:C:227:ALA:HB2	1:D:222:GLN:C	2.22	0.65
1:D:209:ALA:HB3	1:E:212:ALA:HB3	1.79	0.65
1:D:237:GLN:CG	1:E:239:ALA:HB3	2.27	0.65
1:J:205:GLY:HA2	1:J:207:GLN:NE2	2.12	0.65
1:R:196:GLY:HA2	1:S:198:PRO:O	1.97	0.65
1:R:240:PRO:HA	1:U:256:GLY:HA3	1.79	0.65
1:V:221:LEU:N	1:W:221:LEU:O	2.30	0.65
1:X:162:GLN:OE1	1:A:161:LEU:HD22	1.96	0.65
1:X:212:ALA:HB2	1:A:211:GLY:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:SER:H	1:B:185:SER:HA	1.62	0.65
1:D:221:LEU:CD2	1:J:237:GLN:HB2	2.26	0.65
1:D:223:GLY:HA2	1:K:240:PRO:HB2	1.77	0.65
1:E:174:PRO:HD3	1:K:188:ALA:HB1	1.79	0.65
1:F:212:ALA:CA	1:G:212:ALA:HB2	2.27	0.65
1:I:256:GLY:N	1:K:257:ALA:HB3	2.12	0.65
1:M:207:GLN:HE22	1:N:210:PRO:HG3	1.61	0.65
1:Y:245:SER:HA	1:Z:246:GLN:CD	2.21	0.65
1:R:205:GLY:O	1:R:206:LEU:HD22	1.97	0.65
1:X:188:ALA:HB3	1:X:189:PRO:HD3	1.77	0.65
1:B:180:PRO:HG2	1:2:225:PRO:HD2	1.78	0.65
1:I:204:PRO:CG	1:K:204:PRO:HD3	2.24	0.65
1:L:236:LEU:O	1:M:236:LEU:HD23	1.97	0.65
1:P:175:GLY:HA2	1:Q:173:ALA:HB2	1.79	0.65
1:P:198:PRO:HA	1:Q:198:PRO:HG3	1.79	0.65
1:2:271:GLY:H	1:3:271:GLY:HA3	1.61	0.65
1:3:209:ALA:CB	1:3:213:PRO:HA	2.26	0.65
1:3:221:LEU:HB2	1:4:222:GLN:O	1.97	0.65
1:4:213:PRO:HB3	1:4:216:GLN:HG2	1.79	0.65
1:R:177:GLN:HB2	1:T:177:GLN:C	2.22	0.65
1:R:184:GLY:HA2	1:S:186:GLN:HE21	1.60	0.65
1:R:221:LEU:HB2	1:T:225:PRO:HB2	1.79	0.65
1:X:158:ALA:CB	1:B:161:LEU:HD22	2.27	0.64
1:A:161:LEU:O	1:B:164:ALA:N	2.30	0.64
1:A:173:ALA:HB1	1:I:204:PRO:HA	1.78	0.64
1:C:228:PRO:HG3	1:F:236:LEU:CD2	2.26	0.64
1:F:201:GLN:HA	1:G:201:GLN:CA	2.26	0.64
1:I:193:GLY:O	1:N:206:LEU:HB2	1.97	0.64
1:I:196:GLY:CA	1:K:197:ALA:HA	2.27	0.64
1:I:207:GLN:HB2	1:J:210:PRO:CA	2.26	0.64
1:I:227:ALA:O	1:J:229:GLY:N	2.31	0.64
1:J:230:SER:HB3	1:1:237:GLN:O	1.97	0.64
1:N:258:PRO:O	1:N:261:GLN:HG3	1.97	0.64
1:2:222:GLN:OE1	1:4:227:ALA:N	2.31	0.64
1:R:241:GLY:HA2	1:S:242:ALA:O	1.97	0.64
1:U:221:LEU:CB	1:U:224:ALA:HA	2.27	0.64
1:X:165:PRO:CA	1:B:166:GLY:HA3	2.28	0.64
1:X:186:GLN:HA	1:A:186:GLN:C	2.22	0.64
1:X:225:PRO:N	1:B:223:GLY:HA2	2.12	0.64
1:D:177:GLN:N	1:E:177:GLN:HB3	2.12	0.64
1:F:189:PRO:CA	1:G:188:ALA:HB2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:219:PRO:CD	1:H:218:ALA:HB2	2.26	0.64
1:G:186:GLN:N	1:G:186:GLN:OE1	2.30	0.64
1:O:186:GLN:CA	1:Q:185:SER:HA	2.26	0.64
1:P:166:GLY:C	1:Q:168:PRO:HD3	2.22	0.64
1:Z:195:PRO:HD2	1:1:195:PRO:HG3	1.78	0.64
1:2:233:ALA:H	1:3:234:PRO:HA	1.63	0.64
1:2:235:GLY:HA2	1:4:236:LEU:HD12	1.78	0.64
1:2:256:GLY:HA3	1:4:256:GLY:HA3	1.79	0.64
1:S:192:GLN:HB2	1:T:192:GLN:H	1.63	0.64
1:V:221:LEU:HG	1:V:223:GLY:H	1.63	0.64
1:F:197:ALA:HB1	1:G:200:SER:CB	2.27	0.64
1:F:228:PRO:CG	1:G:225:PRO:HA	2.27	0.64
1:G:249:PRO:HG2	1:H:248:ALA:HB3	1.79	0.64
1:J:218:ALA:HB1	1:J:219:PRO:CD	2.27	0.64
1:J:242:ALA:HB3	1:J:243:PRO:HD3	1.79	0.64
1:O:176:LEU:O	1:Q:177:GLN:HG2	1.98	0.64
1:Y:216:GLN:CB	1:Z:217:GLY:HA3	2.27	0.64
1:2:229:GLY:C	1:4:231:GLN:HB2	2.22	0.64
1:R:215:SER:HB2	1:U:230:SER:HB2	1.78	0.64
1:R:229:GLY:C	1:S:231:GLN:HA	2.22	0.64
1:U:207:GLN:O	1:W:207:GLN:HB2	1.97	0.64
1:U:210:PRO:HG3	1:W:209:ALA:H	1.63	0.64
1:U:215:SER:HB3	1:V:213:PRO:O	1.97	0.64
1:U:221:LEU:HB2	1:W:220:GLY:O	1.98	0.64
1:V:216:GLN:HA	1:W:217:GLY:HA3	1.79	0.64
1:V:221:LEU:HB2	1:W:221:LEU:CD1	2.24	0.64
1:J:218:ALA:HB2	1:K:219:PRO:CD	2.26	0.64
1:J:230:SER:CB	1:1:238:GLY:HA2	2.27	0.64
1:K:246:GLN:NE2	1:1:249:PRO:O	2.29	0.64
1:L:225:PRO:HG3	1:M:220:GLY:O	1.96	0.64
1:Y:195:PRO:CA	1:1:195:PRO:HD2	2.27	0.64
1:Y:210:PRO:N	1:1:210:PRO:HB2	2.13	0.64
1:Y:230:SER:HB2	1:W:226:GLY:HA2	1.78	0.64
1:Z:246:GLN:HB2	1:4:258:PRO:O	1.97	0.64
1:Z:256:GLY:HA2	1:2:267:GLN:CG	2.27	0.64
1:1:227:ALA:H	1:W:216:GLN:HG3	1.62	0.64
1:2:264:PRO:HD2	1:4:264:PRO:CB	2.27	0.64
1:2:271:GLY:HA2	1:3:271:GLY:HA3	1.78	0.64
1:3:211:GLY:O	1:3:212:ALA:HB3	1.98	0.64
1:R:189:PRO:HA	1:T:189:PRO:C	2.22	0.64
1:R:214:GLY:O	1:U:228:PRO:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:181:GLY:HA3	1:A:181:GLY:O	1.97	0.64
1:X:221:LEU:HB3	1:B:221:LEU:CB	2.24	0.64
1:C:191:LEU:HG	1:E:191:LEU:HA	1.79	0.64
1:D:228:PRO:O	1:E:231:GLN:HG3	1.98	0.64
1:F:198:PRO:CB	1:G:197:ALA:HA	2.27	0.64
1:F:221:LEU:HD23	1:H:220:GLY:O	1.96	0.64
1:F:222:GLN:N	1:H:220:GLY:HA2	2.13	0.64
1:F:239:ALA:HB2	1:G:236:LEU:CB	2.26	0.64
1:P:212:ALA:N	1:P:213:PRO:HD3	2.13	0.64
1:2:206:LEU:C	1:4:207:GLN:HB3	2.22	0.64
1:S:187:GLY:HA3	1:T:187:GLY:CA	2.28	0.64
1:T:233:ALA:N	1:T:234:PRO:HD3	2.13	0.64
1:U:186:GLN:CG	1:V:188:ALA:HB2	2.27	0.64
1:U:194:ALA:CB	1:W:194:ALA:HB1	2.17	0.64
1:X:200:SER:OG	1:A:198:PRO:HA	1.97	0.64
1:A:191:LEU:O	1:A:192:GLN:HG3	1.98	0.64
1:C:202:GLY:N	1:D:201:GLN:HA	2.13	0.64
1:C:227:ALA:HB2	1:D:223:GLY:N	2.12	0.64
1:D:178:GLY:CA	1:E:176:LEU:HG	2.28	0.64
1:F:186:GLN:HB3	1:G:187:GLY:C	2.23	0.64
1:I:216:GLN:HG3	1:K:220:GLY:C	2.23	0.64
1:I:251:LEU:CD2	1:J:251:LEU:HD11	2.28	0.64
1:I:257:ALA:CB	1:J:257:ALA:HA	2.26	0.64
1:J:191:LEU:HA	1:K:190:GLY:O	1.98	0.64
1:J:217:GLY:O	1:Y:221:LEU:HD21	1.96	0.64
1:L:230:SER:HB2	1:M:227:ALA:O	1.98	0.64
1:L:234:PRO:HB2	1:N:234:PRO:CB	2.15	0.64
1:O:162:GLN:HG2	1:O:164:ALA:H	1.62	0.64
1:O:227:ALA:O	1:P:231:GLN:NE2	2.31	0.64
1:P:213:PRO:HD2	1:Q:212:ALA:HB2	1.78	0.64
1:Y:231:GLN:N	1:Z:230:SER:O	2.31	0.64
1:Z:261:GLN:HG2	1:Z:262:GLY:N	2.13	0.64
1:3:216:GLN:HG3	1:4:217:GLY:CA	2.27	0.64
1:4:251:LEU:HD11	1:4:255:PRO:HG2	1.80	0.64
1:T:206:LEU:HD22	1:U:219:PRO:CB	2.22	0.64
1:U:182:ALA:HA	1:W:184:GLY:N	2.12	0.64
1:V:214:GLY:O	1:W:215:SER:HB3	1.98	0.64
1:X:194:ALA:HB3	1:B:193:GLY:HA3	1.79	0.64
1:A:178:GLY:C	1:B:180:PRO:HG3	2.22	0.64
1:C:224:ALA:C	1:E:223:GLY:HA2	2.23	0.64
1:E:205:GLY:C	1:E:206:LEU:HD22	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:206:LEU:C	1:G:207:GLN:HB2	2.23	0.64
1:G:195:PRO:HG3	1:H:195:PRO:HB2	1.80	0.64
1:K:246:GLN:CB	1:Z:250:GLY:HA3	2.27	0.64
1:L:240:PRO:CG	1:N:237:GLN:HA	2.28	0.64
1:L:249:PRO:N	1:N:249:PRO:HB2	2.12	0.64
1:M:209:ALA:N	1:N:212:ALA:HA	2.12	0.64
1:O:182:ALA:HB2	1:P:182:ALA:O	1.98	0.64
1:4:269:ALA:HB1	1:4:270:PRO:HD2	1.80	0.64
1:R:221:LEU:CD1	1:U:237:GLN:HA	2.21	0.64
1:V:222:GLN:N	1:W:221:LEU:O	2.29	0.64
1:X:163:GLY:CA	1:J:196:GLY:HA2	2.28	0.64
1:X:210:PRO:HA	1:A:210:PRO:N	2.12	0.64
1:X:224:ALA:C	1:B:223:GLY:HA2	2.23	0.64
1:A:173:ALA:HA	1:J:203:ALA:HB3	1.79	0.64
1:C:198:PRO:CB	1:E:200:SER:HB3	2.28	0.64
1:C:234:PRO:O	1:D:232:GLY:HA2	1.98	0.64
1:E:239:ALA:HA	1:I:257:ALA:HB3	1.79	0.64
1:F:190:GLY:CA	1:G:191:LEU:HG	2.27	0.64
1:L:252:GLN:HA	1:N:253:GLY:H	1.63	0.64
1:L:255:PRO:HD3	1:M:253:GLY:HA2	1.79	0.64
1:M:207:GLN:HG3	1:N:207:GLN:HG2	1.80	0.64
1:O:204:PRO:O	1:P:207:GLN:NE2	2.30	0.64
1:O:224:ALA:HB3	1:P:228:PRO:CG	2.27	0.64
1:P:213:PRO:HG2	1:Q:212:ALA:H	1.63	0.64
1:Z:216:GLN:C	1:1:218:ALA:HA	2.23	0.64
1:3:236:LEU:HA	1:4:237:GLN:HB3	1.80	0.64
1:R:210:PRO:HA	1:U:223:GLY:CA	2.28	0.64
1:R:234:PRO:CG	1:S:234:PRO:HB3	2.28	0.64
1:R:235:GLY:N	1:T:236:LEU:O	2.25	0.64
1:X:179:ALA:O	1:B:181:GLY:N	2.30	0.64
1:A:166:GLY:C	1:A:168:PRO:HD2	2.22	0.64
1:G:195:PRO:CB	1:H:195:PRO:HB2	2.28	0.64
1:G:198:PRO:HB3	1:H:198:PRO:CB	2.27	0.64
1:H:222:GLN:OE1	1:H:222:GLN:N	2.31	0.64
1:L:264:PRO:CD	1:N:265:GLY:HA3	2.28	0.64
1:M:263:ALA:HB2	1:N:265:GLY:CA	2.28	0.64
1:P:228:PRO:HD2	1:Q:230:SER:N	2.13	0.64
1:Y:211:GLY:O	1:Z:215:SER:HB3	1.98	0.64
1:Y:216:GLN:HG2	1:Z:219:PRO:HB3	1.79	0.64
1:Y:230:SER:O	1:V:225:PRO:HD2	1.98	0.64
1:2:224:ALA:O	1:3:226:GLY:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:237:GLN:HG3	1:3:241:GLY:CA	2.28	0.64
1:A:173:ALA:HB1	1:I:204:PRO:CA	2.28	0.64
1:C:192:GLN:HB3	1:E:193:GLY:CA	2.27	0.64
1:L:221:LEU:CD2	1:N:219:PRO:HB2	2.28	0.64
1:L:255:PRO:CB	1:N:255:PRO:HB2	2.27	0.64
1:M:263:ALA:HB1	1:N:267:GLN:O	1.97	0.64
1:Y:216:GLN:HB2	1:Z:219:PRO:CD	2.28	0.64
1:Y:256:GLY:HA3	1:Z:261:GLN:HE22	1.61	0.64
1:Z:237:GLN:HB3	1:W:230:SER:CB	2.27	0.64
1:2:236:LEU:H	1:4:239:ALA:HB2	1.63	0.64
1:2:265:GLY:O	1:4:266:LEU:HA	1.97	0.64
1:R:201:GLN:NE2	1:R:202:GLY:O	2.31	0.64
1:U:207:GLN:NE2	1:W:204:PRO:O	2.26	0.64
1:X:171:GLN:HE21	1:B:171:GLN:HA	1.63	0.63
1:A:188:ALA:HA	1:J:219:PRO:HG3	1.80	0.63
1:C:179:ALA:HB2	1:D:179:ALA:O	1.98	0.63
1:C:198:PRO:HB2	1:E:200:SER:OG	1.98	0.63
1:C:202:GLY:HA2	1:E:201:GLN:NE2	2.13	0.63
1:L:258:PRO:HB3	1:N:260:SER:CA	2.27	0.63
1:M:205:GLY:HA2	1:N:206:LEU:CD1	2.26	0.63
1:M:205:GLY:O	1:M:207:GLN:NE2	2.30	0.63
1:O:188:ALA:N	1:Q:187:GLY:HA3	2.14	0.63
1:P:208:GLY:O	1:Q:209:ALA:N	2.31	0.63
1:2:272:ALA:CA	1:3:272:ALA:HB3	2.27	0.63
1:R:205:GLY:HA3	1:S:206:LEU:HA	1.79	0.63
1:R:222:GLN:O	1:T:227:ALA:HB2	1.97	0.63
1:V:188:ALA:N	1:W:189:PRO:HA	2.12	0.63
1:V:216:GLN:O	1:V:219:PRO:HG3	1.98	0.63
1:A:222:GLN:HB3	1:I:255:PRO:HB3	1.80	0.63
1:B:170:SER:HA	1:3:216:GLN:HA	1.80	0.63
1:C:183:PRO:HG3	1:F:192:GLN:HE22	1.63	0.63
1:D:228:PRO:O	1:G:237:GLN:HG2	1.98	0.63
1:F:177:GLN:CG	1:H:180:PRO:HA	2.28	0.63
1:F:182:ALA:HB3	1:G:186:GLN:NE2	2.13	0.63
1:I:192:GLN:HG3	1:N:203:ALA:HA	1.80	0.63
1:I:216:GLN:HG3	1:K:220:GLY:O	1.97	0.63
1:I:233:ALA:HB2	1:Y:236:LEU:CD1	2.28	0.63
1:J:195:PRO:CG	1:J:198:PRO:HG3	2.28	0.63
1:P:202:GLY:HA2	1:Q:201:GLN:OE1	1.98	0.63
1:P:206:LEU:HG	1:P:207:GLN:H	1.61	0.63
1:Y:236:LEU:CA	1:Z:240:PRO:HD2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:242:ALA:O	1:Z:243:PRO:HB3	1.98	0.63
1:R:219:PRO:CD	1:T:222:GLN:HB2	2.28	0.63
1:R:230:SER:O	1:S:232:GLY:N	2.31	0.63
1:X:184:GLY:N	1:A:186:GLN:HG3	2.13	0.63
1:X:193:GLY:O	1:B:193:GLY:HA2	1.99	0.63
1:A:156:GLN:HG2	1:2:204:PRO:CB	2.28	0.63
1:A:162:GLN:HA	1:3:210:PRO:HB3	1.80	0.63
1:C:195:PRO:HA	1:E:196:GLY:CA	2.28	0.63
1:F:232:GLY:O	1:F:234:PRO:HD3	1.97	0.63
1:L:217:GLY:C	1:L:219:PRO:HD3	2.24	0.63
1:L:237:GLN:O	1:M:236:LEU:HG	1.96	0.63
1:O:172:GLY:HA3	1:P:172:GLY:H	1.63	0.63
1:O:172:GLY:HA3	1:P:171:GLN:HA	1.81	0.63
1:O:210:PRO:HA	1:P:212:ALA:HA	1.80	0.63
1:Y:246:GLN:NE2	1:4:259:GLY:HA3	2.14	0.63
1:Z:198:PRO:C	1:1:198:PRO:HG3	2.23	0.63
1:Z:203:ALA:HB2	1:1:201:GLN:HG3	1.80	0.63
1:2:259:GLY:C	1:3:260:SER:HA	2.24	0.63
1:X:195:PRO:CB	1:X:198:PRO:HB3	2.28	0.63
1:B:170:SER:HA	1:3:217:GLY:N	2.13	0.63
1:C:191:LEU:O	1:D:191:LEU:HA	1.98	0.63
1:C:203:ALA:CB	1:E:206:LEU:HD23	2.28	0.63
1:D:219:PRO:HG3	1:F:233:ALA:CB	2.28	0.63
1:F:212:ALA:HA	1:G:211:GLY:O	1.98	0.63
1:L:216:GLN:OE1	1:M:209:ALA:HB1	1.97	0.63
1:L:221:LEU:HD23	1:N:219:PRO:HB2	1.80	0.63
1:O:210:PRO:C	1:P:212:ALA:HA	2.23	0.63
1:Y:249:PRO:HA	1:W:246:GLN:O	1.99	0.63
1:1:222:GLN:HE22	1:W:213:PRO:HB3	1.62	0.63
1:2:235:GLY:C	1:3:237:GLN:HA	2.24	0.63
1:3:251:LEU:HD13	1:3:255:PRO:HG3	1.80	0.63
1:R:212:ALA:H	1:T:212:ALA:HA	1.64	0.63
1:R:221:LEU:HD13	1:U:237:GLN:CA	2.21	0.63
1:R:231:GLN:NE2	1:S:228:PRO:O	2.31	0.63
1:V:195:PRO:HG3	1:W:196:GLY:HA2	1.79	0.63
1:X:160:GLY:O	1:A:161:LEU:HD13	1.97	0.63
1:X:219:PRO:HD2	1:A:216:GLN:OE1	1.99	0.63
1:B:183:PRO:HB3	1:B:186:GLN:NE2	2.14	0.63
1:D:178:GLY:HA2	1:E:176:LEU:HG	1.81	0.63
1:D:207:GLN:HG3	1:E:210:PRO:HG3	1.81	0.63
1:D:238:GLY:N	1:E:239:ALA:O	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:202:GLY:HA3	1:K:220:GLY:HA3	1.79	0.63
1:G:198:PRO:N	1:H:198:PRO:HD2	2.14	0.63
1:G:239:ALA:HB1	1:G:243:PRO:HG2	1.80	0.63
1:I:191:LEU:N	1:J:190:GLY:O	2.32	0.63
1:L:208:GLY:HA3	1:M:208:GLY:HA2	1.81	0.63
1:O:197:ALA:N	1:Q:198:PRO:HD2	2.12	0.63
1:Y:229:GLY:O	1:I:230:SER:OG	2.17	0.63
1:2:221:LEU:HD23	1:2:222:GLN:O	1.97	0.63
1:R:204:PRO:O	1:S:205:GLY:N	2.31	0.63
1:S:195:PRO:HD2	1:T:195:PRO:HG3	1.80	0.63
1:U:242:ALA:HB2	1:V:241:GLY:CA	2.29	0.63
1:U:245:SER:HA	1:V:245:SER:HB2	1.80	0.63
1:A:168:PRO:HD3	1:K:198:PRO:CB	2.28	0.63
1:C:197:ALA:CA	1:D:196:GLY:HA3	2.25	0.63
1:C:231:GLN:O	1:E:229:GLY:HA3	1.98	0.63
1:D:211:GLY:HA2	1:E:213:PRO:CD	2.19	0.63
1:G:195:PRO:HB3	1:H:195:PRO:C	2.24	0.63
1:L:240:PRO:HG3	1:N:237:GLN:CA	2.28	0.63
1:L:268:GLY:N	1:M:267:GLN:HB2	2.13	0.63
1:M:237:GLN:HA	1:N:239:ALA:HB3	1.79	0.63
1:O:213:PRO:HD3	1:Q:213:PRO:HB2	1.80	0.63
1:Y:195:PRO:HB3	1:Z:198:PRO:HD3	1.80	0.63
1:R:216:GLN:HA	1:S:218:ALA:HB2	1.79	0.63
1:T:216:GLN:HG2	1:T:217:GLY:N	2.13	0.63
1:X:184:GLY:HA2	1:A:184:GLY:C	2.24	0.63
1:A:156:GLN:CG	1:2:204:PRO:HB3	2.27	0.63
1:A:162:GLN:HG3	1:B:162:GLN:CG	2.28	0.63
1:F:198:PRO:HD3	1:G:198:PRO:HD2	1.81	0.63
1:F:230:SER:OG	1:H:230:SER:O	2.17	0.63
1:F:236:LEU:HG	1:G:236:LEU:CD1	2.28	0.63
1:G:192:GLN:NE2	1:H:195:PRO:HB3	2.14	0.63
1:G:195:PRO:HB2	1:H:198:PRO:HD3	1.81	0.63
1:G:249:PRO:CG	1:H:248:ALA:HB3	2.29	0.63
1:I:186:GLN:HA	1:J:185:SER:CA	2.29	0.63
1:I:236:LEU:HD22	1:K:238:GLY:O	1.99	0.63
1:L:215:SER:OG	1:M:214:GLY:N	2.31	0.63
1:L:240:PRO:CB	1:N:240:PRO:HB3	2.28	0.63
1:L:249:PRO:CB	1:N:252:GLN:HB3	2.28	0.63
1:L:264:PRO:HD3	1:M:261:GLN:HB3	1.78	0.63
1:O:176:LEU:C	1:Q:177:GLN:HG2	2.24	0.63
1:P:177:GLN:HG2	1:Q:175:GLY:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:180:PRO:HB3	1:Q:176:LEU:CA	2.25	0.63
1:Y:234:PRO:HG3	1:2:246:GLN:NE2	2.13	0.63
1:Z:245:SER:O	1:1:245:SER:HA	1.98	0.63
1:2:266:LEU:HD12	1:4:265:GLY:O	1.97	0.63
1:R:187:GLY:N	1:T:185:SER:OG	2.32	0.63
1:R:210:PRO:HB3	1:U:224:ALA:N	2.14	0.63
1:R:227:ALA:HB3	1:S:230:SER:OG	1.98	0.63
1:X:155:SER:OG	1:J:186:GLN:O	2.12	0.63
1:X:218:ALA:HB1	1:X:221:LEU:HD22	1.80	0.63
1:A:177:GLN:H	1:B:177:GLN:HG2	1.62	0.63
1:F:198:PRO:HD2	1:G:200:SER:N	2.14	0.63
1:G:235:GLY:N	1:H:235:GLY:O	2.32	0.63
1:I:198:PRO:CB	1:N:209:ALA:HB2	2.27	0.63
1:L:243:PRO:N	1:M:239:ALA:HA	2.13	0.63
1:O:214:GLY:N	1:Q:215:SER:O	2.30	0.63
1:P:203:ALA:CB	1:P:206:LEU:HD13	2.29	0.63
1:P:213:PRO:HB2	1:Q:212:ALA:HB2	1.81	0.63
1:Z:212:ALA:CA	1:1:210:PRO:HG2	2.29	0.63
1:Z:261:GLN:CG	1:4:270:PRO:HB2	2.29	0.63
1:2:273:PRO:HG3	1:4:271:GLY:HA2	1.79	0.63
1:X:155:SER:HA	1:B:157:GLY:CA	2.29	0.63
1:X:174:PRO:O	1:B:177:GLN:HA	1.99	0.63
1:C:180:PRO:HA	1:E:183:PRO:HD3	1.80	0.63
1:F:246:GLN:N	1:G:246:GLN:HB3	2.14	0.63
1:J:202:GLY:C	1:K:201:GLN:HB2	2.23	0.63
1:J:219:PRO:CD	1:K:218:ALA:HB1	2.28	0.63
1:K:252:GLN:HE21	1:K:255:PRO:HD2	1.64	0.63
1:L:233:ALA:CA	1:M:231:GLN:HB3	2.20	0.63
1:L:243:PRO:HA	1:M:239:ALA:C	2.24	0.63
1:Y:250:GLY:N	1:W:247:GLY:HA2	2.14	0.63
1:Y:257:ALA:HB2	1:1:257:ALA:CB	2.16	0.63
1:Z:246:GLN:HA	1:1:245:SER:HA	1.81	0.63
1:2:237:GLN:CG	1:3:241:GLY:HA3	2.29	0.63
1:R:215:SER:C	1:T:219:PRO:HG2	2.24	0.63
1:V:187:GLY:C	1:W:189:PRO:HA	2.24	0.63
1:X:183:PRO:CB	1:A:183:PRO:HB3	2.29	0.62
1:X:194:ALA:HB3	1:B:193:GLY:HA2	1.79	0.62
1:A:158:ALA:HB2	1:B:160:GLY:O	1.99	0.62
1:B:172:GLY:HA2	1:3:219:PRO:HA	1.80	0.62
1:C:192:GLN:NE2	1:D:191:LEU:HD12	2.14	0.62
1:E:209:ALA:HB2	1:J:224:ALA:HB1	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:201:GLN:NE2	1:G:204:PRO:HB3	2.14	0.62
1:G:233:ALA:HB1	1:G:234:PRO:HD2	1.81	0.62
1:K:252:GLN:NE2	1:K:255:PRO:HD2	2.13	0.62
1:L:251:LEU:CD2	1:M:252:GLN:HA	2.29	0.62
1:M:209:ALA:N	1:M:210:PRO:HD3	2.14	0.62
1:O:190:GLY:HA3	1:P:192:GLN:H	1.64	0.62
1:P:217:GLY:HA3	1:Q:219:PRO:HG2	1.81	0.62
1:Z:243:PRO:HD2	1:2:251:LEU:CD2	2.26	0.62
1:Z:251:LEU:HB3	1:4:261:GLN:CD	2.24	0.62
1:4:247:GLY:C	1:4:249:PRO:HD2	2.24	0.62
1:R:204:PRO:HD3	1:T:202:GLY:H	1.63	0.62
1:R:224:ALA:C	1:T:227:ALA:HB3	2.24	0.62
1:R:233:ALA:O	1:S:237:GLN:NE2	2.32	0.62
1:S:213:PRO:CB	1:T:212:ALA:HB3	2.19	0.62
1:V:180:PRO:HA	1:W:180:PRO:N	2.13	0.62
1:W:233:ALA:HB1	1:W:236:LEU:HD23	1.81	0.62
1:C:204:PRO:CG	1:D:203:ALA:HA	2.28	0.62
1:D:204:PRO:O	1:E:206:LEU:HD11	1.98	0.62
1:E:191:LEU:HD23	1:J:207:GLN:HA	1.79	0.62
1:F:234:PRO:HD2	1:G:231:GLN:C	2.24	0.62
1:I:212:ALA:HB3	1:J:215:SER:H	1.63	0.62
1:I:213:PRO:HB3	1:K:213:PRO:HG2	1.82	0.62
1:I:232:GLY:HA3	1:J:234:PRO:N	2.14	0.62
1:J:192:GLN:HG2	1:K:189:PRO:CB	2.29	0.62
1:L:230:SER:HB3	1:N:229:GLY:C	2.24	0.62
1:O:165:PRO:O	1:P:167:ALA:HB3	1.98	0.62
1:O:186:GLN:NE2	1:Q:184:GLY:O	2.33	0.62
1:P:196:GLY:N	1:Q:195:PRO:HB2	2.14	0.62
1:Z:252:GLN:N	1:1:250:GLY:HA3	2.12	0.62
1:R:200:SER:HB2	1:U:210:PRO:HD2	1.80	0.62
1:R:235:GLY:HA3	1:S:236:LEU:CA	2.26	0.62
1:X:183:PRO:HB2	1:A:183:PRO:HB3	1.81	0.62
1:B:170:SER:HA	1:3:217:GLY:H	1.63	0.62
1:D:173:ALA:H	1:E:174:PRO:HB3	1.63	0.62
1:D:188:ALA:O	1:E:190:GLY:N	2.31	0.62
1:L:204:PRO:HA	1:M:205:GLY:H	1.65	0.62
1:O:198:PRO:HB2	1:P:201:GLN:HG3	1.80	0.62
1:O:210:PRO:HB2	1:Q:213:PRO:CD	2.29	0.62
1:Y:207:GLN:HA	1:Z:210:PRO:CG	2.28	0.62
1:Y:237:GLN:HG2	1:Y:240:PRO:HG3	1.81	0.62
1:Y:245:SER:HA	1:Z:246:GLN:CG	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:201:GLN:HB3	1:1:201:GLN:H	1.65	0.62
1:Z:230:SER:HB3	1:1:233:ALA:CB	2.30	0.62
1:2:252:GLN:HA	1:4:251:LEU:CD2	2.30	0.62
1:2:259:GLY:HA3	1:3:260:SER:HA	1.79	0.62
1:R:231:GLN:HB2	1:T:233:ALA:CA	2.20	0.62
1:U:187:GLY:CA	1:W:186:GLN:HB2	2.28	0.62
1:U:250:GLY:HA3	1:W:252:GLN:HG3	1.81	0.62
1:V:185:SER:CB	1:W:189:PRO:HD3	2.26	0.62
1:X:185:SER:HA	1:B:187:GLY:CA	2.27	0.62
1:X:211:GLY:CA	1:B:209:ALA:HB3	2.28	0.62
1:F:198:PRO:HD3	1:G:198:PRO:CD	2.28	0.62
1:I:211:GLY:HA2	1:J:213:PRO:C	2.24	0.62
1:J:228:PRO:HB3	1:1:235:GLY:HA2	1.81	0.62
1:L:238:GLY:C	1:L:240:PRO:HD3	2.25	0.62
1:L:252:GLN:N	1:L:252:GLN:OE1	2.32	0.62
1:Y:252:GLN:HE21	1:U:249:PRO:HB2	1.63	0.62
1:2:229:GLY:HA3	1:3:231:GLN:CG	2.23	0.62
1:2:253:GLY:C	1:4:253:GLY:HA2	2.24	0.62
1:U:210:PRO:HB3	1:V:208:GLY:CA	2.26	0.62
1:V:230:SER:HB2	1:W:234:PRO:HG2	1.79	0.62
1:X:217:GLY:CA	1:B:216:GLN:HB2	2.08	0.62
1:F:180:PRO:O	1:H:183:PRO:HD2	2.00	0.62
1:L:234:PRO:HD2	1:M:230:SER:C	2.24	0.62
1:M:235:GLY:C	1:N:238:GLY:HA3	2.25	0.62
1:4:247:GLY:O	1:4:249:PRO:HD2	2.00	0.62
1:S:191:LEU:C	1:T:189:PRO:HB2	2.23	0.62
1:U:224:ALA:HB1	1:V:222:GLN:HE21	1.63	0.62
1:F:225:PRO:HG3	1:G:220:GLY:C	2.24	0.62
1:F:235:GLY:HA2	1:G:233:ALA:H	1.65	0.62
1:F:243:PRO:HD2	1:G:240:PRO:HD2	1.81	0.62
1:G:246:GLN:HG3	1:H:246:GLN:CG	2.29	0.62
1:L:240:PRO:HG2	1:N:240:PRO:N	2.14	0.62
1:M:249:PRO:HD2	1:N:250:GLY:HA2	1.81	0.62
1:O:200:SER:O	1:O:201:GLN:HB2	1.99	0.62
1:P:210:PRO:HA	1:Q:209:ALA:HA	1.81	0.62
1:2:273:PRO:HB2	1:3:276:GLN:CB	2.30	0.62
1:V:205:GLY:HA3	1:W:206:LEU:HD22	1.82	0.62
1:V:240:PRO:CA	1:W:239:ALA:HB1	2.28	0.62
1:X:209:ALA:O	1:A:210:PRO:HG3	1.99	0.62
1:C:196:GLY:O	1:D:196:GLY:HA3	2.00	0.62
1:F:192:GLN:HB3	1:H:193:GLY:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:212:ALA:CB	1:H:213:PRO:HB2	2.29	0.62
1:L:225:PRO:O	1:N:223:GLY:N	2.29	0.62
1:L:255:PRO:HB2	1:M:255:PRO:CG	2.30	0.62
1:P:168:PRO:CB	1:P:172:GLY:HA3	2.30	0.62
1:Y:250:GLY:HA3	1:I:250:GLY:HA2	1.81	0.62
1:Z:253:GLY:HA2	1:U:248:ALA:HB1	1.81	0.62
1:I:228:PRO:C	1:V:218:ALA:HB2	2.25	0.62
1:R:218:ALA:HA	1:U:234:PRO:HD3	1.80	0.62
1:U:247:GLY:HA2	1:U:251:LEU:CB	2.29	0.62
1:A:218:ALA:HB1	1:I:252:GLN:HB2	1.80	0.62
1:F:236:LEU:HD12	1:G:235:GLY:O	2.00	0.62
1:G:198:PRO:HA	1:H:198:PRO:C	2.25	0.62
1:L:234:PRO:C	1:M:232:GLY:HA2	2.23	0.62
1:L:245:SER:OG	1:M:246:GLN:HG2	2.00	0.62
1:M:204:PRO:HG2	1:N:204:PRO:HB3	1.81	0.62
1:O:177:GLN:CA	1:Q:178:GLY:HA2	2.30	0.62
1:O:186:GLN:N	1:Q:185:SER:OG	2.30	0.62
1:O:194:ALA:HB3	1:R:207:GLN:CD	2.24	0.62
1:O:204:PRO:HG2	1:Q:204:PRO:HD3	1.80	0.62
1:P:210:PRO:HA	1:Q:209:ALA:C	2.24	0.62
1:2:254:ALA:HB3	1:2:255:PRO:CD	2.30	0.62
1:X:208:GLY:O	1:A:210:PRO:HD3	2.00	0.62
1:C:192:GLN:CB	1:E:195:PRO:HD2	2.26	0.62
1:F:216:GLN:NE2	1:H:214:GLY:HA2	2.15	0.62
1:I:210:PRO:N	1:K:210:PRO:HA	2.15	0.62
1:I:212:ALA:H	1:K:214:GLY:HA3	1.65	0.62
1:I:235:GLY:O	1:Z:245:SER:HB3	1.99	0.62
1:I:257:ALA:HB2	1:J:257:ALA:C	2.24	0.62
1:J:234:PRO:HB3	1:K:234:PRO:HB2	1.80	0.62
1:L:226:GLY:HA2	1:M:223:GLY:N	2.14	0.62
1:L:266:LEU:CD2	1:M:265:GLY:HA3	2.30	0.62
1:M:225:PRO:O	1:N:228:PRO:HG3	2.00	0.62
1:N:236:LEU:HD12	1:N:237:GLN:N	2.15	0.62
1:Y:198:PRO:HA	1:I:198:PRO:HG2	1.81	0.62
1:2:219:PRO:HB2	1:4:225:PRO:HD3	1.81	0.62
1:2:232:GLY:HA3	1:3:234:PRO:N	2.14	0.62
1:2:252:GLN:O	1:3:251:LEU:HD23	2.00	0.62
1:2:256:GLY:HA2	1:4:255:PRO:C	2.24	0.62
1:2:270:PRO:HB3	1:4:270:PRO:C	2.24	0.62
1:R:205:GLY:HA3	1:S:206:LEU:CA	2.29	0.62
1:S:233:ALA:HB2	1:V:249:PRO:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:208:GLY:HA3	1:W:208:GLY:HA3	1.81	0.62
1:D:172:GLY:HA3	1:E:174:PRO:HG3	1.82	0.62
1:I:233:ALA:HB3	1:K:235:GLY:CA	2.29	0.62
1:O:227:ALA:HB3	1:P:231:GLN:CD	2.25	0.62
1:Y:207:GLN:HB2	1:1:206:LEU:HD22	1.81	0.62
1:Z:243:PRO:HG3	1:2:251:LEU:HD13	1.81	0.62
1:2:219:PRO:CG	1:4:225:PRO:HD3	2.29	0.62
1:2:237:GLN:HG3	1:3:241:GLY:HA3	1.82	0.62
1:R:183:PRO:HB3	1:T:182:ALA:H	1.64	0.62
1:T:222:GLN:CB	1:U:234:PRO:HG3	2.30	0.62
1:U:206:LEU:HD23	1:U:208:GLY:N	2.14	0.62
1:V:224:ALA:CB	1:W:224:ALA:HB3	2.30	0.62
1:X:176:LEU:CD1	1:X:179:ALA:HB2	2.29	0.61
1:X:178:GLY:O	1:A:177:GLN:NE2	2.33	0.61
1:X:189:PRO:HA	1:X:191:LEU:CD2	2.29	0.61
1:C:228:PRO:HB2	1:D:226:GLY:N	2.15	0.61
1:J:237:GLN:HG3	1:J:240:PRO:HD3	1.82	0.61
1:J:252:GLN:HE22	1:K:250:GLY:HA2	1.64	0.61
1:L:200:SER:N	1:M:200:SER:OG	2.32	0.61
1:L:258:PRO:HB3	1:N:260:SER:C	2.25	0.61
1:M:200:SER:O	1:M:201:GLN:HG3	2.00	0.61
1:M:250:GLY:HA2	1:N:251:LEU:HA	1.80	0.61
1:2:254:ALA:N	1:4:253:GLY:HA2	2.15	0.61
1:2:256:GLY:HA2	1:4:256:GLY:HA3	1.81	0.61
1:R:181:GLY:N	1:S:181:GLY:O	2.33	0.61
1:R:222:GLN:CA	1:T:227:ALA:HB2	2.29	0.61
1:R:223:GLY:HA2	1:S:224:ALA:C	2.25	0.61
1:U:231:GLN:HB2	1:V:228:PRO:CG	2.29	0.61
1:U:236:LEU:HD21	1:V:237:GLN:HG2	1.82	0.61
1:A:195:PRO:HD2	1:B:198:PRO:CG	2.30	0.61
1:A:212:ALA:HB1	1:A:213:PRO:HD2	1.80	0.61
1:C:227:ALA:HA	1:D:222:GLN:HB3	1.82	0.61
1:D:189:PRO:CG	1:F:200:SER:HA	2.30	0.61
1:E:222:GLN:OE1	1:K:238:GLY:HA3	2.01	0.61
1:F:197:ALA:HB1	1:G:200:SER:CA	2.30	0.61
1:G:238:GLY:H	1:H:240:PRO:HA	1.64	0.61
1:I:209:ALA:N	1:K:210:PRO:HB3	2.16	0.61
1:J:195:PRO:CB	1:J:198:PRO:HG3	2.30	0.61
1:K:255:PRO:HB3	1:M:266:LEU:CD1	2.29	0.61
1:Y:213:PRO:O	1:V:207:GLN:NE2	2.31	0.61
1:Y:236:LEU:HD12	1:Y:237:GLN:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:237:GLN:CB	1:V:231:GLN:HB3	2.29	0.61
1:2:207:GLN:O	1:3:212:ALA:HB2	2.01	0.61
1:2:230:SER:C	1:3:231:GLN:HA	2.25	0.61
1:2:272:ALA:HA	1:3:272:ALA:HB3	1.82	0.61
1:S:216:GLN:CB	1:T:217:GLY:HA2	2.15	0.61
1:S:231:GLN:HG3	1:S:232:GLY:N	2.15	0.61
1:T:225:PRO:HG2	1:U:237:GLN:CB	2.30	0.61
1:V:221:LEU:N	1:W:221:LEU:HB2	2.16	0.61
1:C:202:GLY:HA3	1:D:201:GLN:CA	2.28	0.61
1:C:223:GLY:N	1:D:219:PRO:HA	2.16	0.61
1:D:195:PRO:HB3	1:H:210:PRO:CD	2.31	0.61
1:F:230:SER:HA	1:G:228:PRO:CA	2.30	0.61
1:I:213:PRO:CG	1:K:212:ALA:HB1	2.31	0.61
1:I:229:GLY:H	1:K:230:SER:HA	1.63	0.61
1:J:216:GLN:NE2	1:Y:220:GLY:HA3	2.15	0.61
1:J:256:GLY:HA2	1:L:266:LEU:CB	2.29	0.61
1:L:253:GLY:C	1:M:251:LEU:HB2	2.25	0.61
1:N:254:ALA:N	1:N:255:PRO:HD3	2.14	0.61
1:O:204:PRO:HD2	1:Q:204:PRO:HB3	1.81	0.61
1:Z:194:ALA:HB1	1:I:195:PRO:CA	2.28	0.61
1:Z:234:PRO:HD2	1:W:228:PRO:C	2.25	0.61
1:Z:251:LEU:HA	1:I:250:GLY:N	2.14	0.61
1:2:219:PRO:HA	1:3:220:GLY:C	2.24	0.61
1:R:219:PRO:HD2	1:U:234:PRO:CG	2.30	0.61
1:U:199:GLY:N	1:V:198:PRO:HA	2.15	0.61
1:V:192:GLN:HB3	1:W:191:LEU:CB	2.27	0.61
1:F:190:GLY:HA3	1:G:190:GLY:O	1.99	0.61
1:F:206:LEU:CD2	1:G:206:LEU:HD12	2.31	0.61
1:J:234:PRO:CB	1:K:234:PRO:HB2	2.31	0.61
1:L:243:PRO:O	1:M:241:GLY:N	2.32	0.61
1:M:204:PRO:HG2	1:N:204:PRO:CG	2.30	0.61
1:M:236:LEU:O	1:N:239:ALA:N	2.32	0.61
1:O:187:GLY:HA2	1:P:188:ALA:O	2.01	0.61
1:P:201:GLN:O	1:Q:200:SER:HA	2.00	0.61
1:Y:224:ALA:HB3	1:Z:226:GLY:H	1.65	0.61
1:Z:221:LEU:CA	1:I:221:LEU:HB3	2.31	0.61
1:Z:234:PRO:HB3	1:I:237:GLN:NE2	2.15	0.61
1:3:219:PRO:HD3	1:4:218:ALA:CA	2.30	0.61
1:3:220:GLY:O	1:4:221:LEU:HD23	1.99	0.61
1:R:186:GLN:CD	1:T:185:SER:HA	2.25	0.61
1:U:217:GLY:C	1:U:219:PRO:HD3	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:236:LEU:HD11	1:V:237:GLN:H	1.66	0.61
1:U:256:GLY:O	1:V:255:PRO:HA	2.00	0.61
1:E:173:ALA:H	1:K:189:PRO:HD2	1.65	0.61
1:G:190:GLY:C	1:G:191:LEU:HD12	2.25	0.61
1:L:234:PRO:CD	1:M:230:SER:HB3	2.30	0.61
1:M:220:GLY:CA	1:O:183:PRO:HG2	2.29	0.61
1:O:179:ALA:N	1:Q:178:GLY:HA3	2.15	0.61
1:P:209:ALA:O	1:Q:209:ALA:HA	2.00	0.61
1:Y:191:LEU:C	1:1:191:LEU:HB2	2.26	0.61
1:Y:213:PRO:HG3	1:V:204:PRO:CB	2.31	0.61
1:Z:211:GLY:H	1:1:210:PRO:HD2	1.64	0.61
1:Z:237:GLN:NE2	1:2:247:GLY:HA2	2.16	0.61
1:2:223:GLY:O	1:2:225:PRO:HD3	1.99	0.61
1:2:271:GLY:HA2	1:3:271:GLY:CA	2.30	0.61
1:3:254:ALA:HB3	1:4:253:GLY:HA3	1.82	0.61
1:U:186:GLN:HB2	1:V:186:GLN:CA	2.29	0.61
1:U:208:GLY:HA3	1:W:208:GLY:CA	2.30	0.61
1:V:205:GLY:HA3	1:W:206:LEU:CD1	2.31	0.61
1:F:207:GLN:HA	1:H:207:GLN:HB2	1.83	0.61
1:I:215:SER:H	1:K:219:PRO:HG2	1.66	0.61
1:I:229:GLY:HA3	1:K:230:SER:OG	2.01	0.61
1:J:246:GLN:OE1	1:K:248:ALA:N	2.34	0.61
1:M:242:ALA:O	1:M:246:GLN:NE2	2.33	0.61
1:O:209:ALA:C	1:P:210:PRO:HB2	2.26	0.61
1:Y:204:PRO:CG	1:1:204:PRO:HG3	2.31	0.61
1:2:242:ALA:HB1	1:3:245:SER:CB	2.28	0.61
1:R:231:GLN:CG	1:T:233:ALA:HA	2.30	0.61
1:T:225:PRO:HG2	1:U:237:GLN:O	2.01	0.61
1:A:167:ALA:N	1:A:168:PRO:HD2	2.16	0.61
1:B:183:PRO:HB3	1:B:186:GLN:HE22	1.66	0.61
1:C:183:PRO:CD	1:H:194:ALA:HB3	2.27	0.61
1:F:201:GLN:HE22	1:G:204:PRO:HB3	1.65	0.61
1:F:204:PRO:HG2	1:H:207:GLN:NE2	2.15	0.61
1:J:213:PRO:HB3	1:K:215:SER:CA	2.25	0.61
1:O:162:GLN:N	1:O:162:GLN:NE2	2.48	0.61
1:O:182:ALA:N	1:P:182:ALA:HB1	2.16	0.61
1:P:196:GLY:H	1:Q:195:PRO:HB2	1.66	0.61
1:2:243:PRO:HG2	1:3:243:PRO:CA	2.22	0.61
1:4:260:SER:C	1:4:261:GLN:HG3	2.24	0.61
1:S:231:GLN:CG	1:U:244:GLY:HA2	2.30	0.61
1:U:252:GLN:HB3	1:V:248:ALA:HA	1.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:154:GLY:N	1:B:155:SER:HB2	2.14	0.61
1:X:163:GLY:H	1:B:164:ALA:HB1	1.66	0.61
1:X:200:SER:HB2	1:A:199:GLY:N	2.16	0.61
1:A:184:GLY:HA3	1:B:185:SER:HA	1.81	0.61
1:C:180:PRO:CG	1:E:180:PRO:HG2	2.30	0.61
1:C:213:PRO:HB3	1:D:210:PRO:HD2	1.83	0.61
1:C:218:ALA:CB	1:E:219:PRO:HD3	2.19	0.61
1:D:195:PRO:CA	1:H:206:LEU:HD13	2.31	0.61
1:D:221:LEU:HD23	1:J:237:GLN:HB2	1.82	0.61
1:O:179:ALA:HB3	1:Q:178:GLY:CA	2.29	0.61
1:P:198:PRO:HD3	1:Q:196:GLY:HA2	1.83	0.61
1:Z:257:ALA:N	1:Z:258:PRO:HD3	2.15	0.61
1:Z:258:PRO:HB2	1:Z:261:GLN:CD	2.26	0.61
1:2:230:SER:O	1:3:232:GLY:N	2.33	0.61
1:R:181:GLY:HA3	1:S:182:ALA:HA	1.83	0.61
1:R:234:PRO:CD	1:S:234:PRO:HA	2.31	0.61
1:S:183:PRO:CB	1:T:183:PRO:HB3	2.31	0.61
1:U:236:LEU:HD13	1:W:236:LEU:CD1	2.31	0.61
1:C:201:GLN:HG3	1:E:203:ALA:CB	2.30	0.61
1:C:222:GLN:CB	1:D:219:PRO:HA	2.30	0.61
1:C:239:ALA:HA	1:D:236:LEU:HB2	1.83	0.61
1:E:171:GLN:CB	1:K:186:GLN:HG3	2.30	0.61
1:E:198:PRO:HG2	1:K:213:PRO:HD3	1.83	0.61
1:I:224:ALA:HB1	1:J:228:PRO:HG3	1.83	0.61
1:J:251:LEU:HB3	1:L:261:GLN:HB2	1.82	0.61
1:K:254:ALA:HB3	1:K:255:PRO:HD2	1.83	0.61
1:2:233:ALA:N	1:3:234:PRO:HA	2.16	0.61
1:R:218:ALA:HA	1:U:234:PRO:CD	2.30	0.61
1:X:204:PRO:HD3	1:B:204:PRO:CB	2.31	0.61
1:A:166:GLY:HA3	1:J:196:GLY:O	2.01	0.61
1:C:180:PRO:HB3	1:E:183:PRO:HD3	1.83	0.61
1:C:190:GLY:O	1:E:192:GLN:HB3	2.00	0.61
1:C:198:PRO:CG	1:D:198:PRO:HA	2.25	0.61
1:E:190:GLY:C	1:J:207:GLN:HG3	2.26	0.61
1:I:240:PRO:HG2	1:I:243:PRO:CG	2.24	0.61
1:L:202:GLY:O	1:N:204:PRO:HA	2.01	0.61
1:M:220:GLY:HA2	1:O:183:PRO:CG	2.30	0.61
1:O:179:ALA:CA	1:P:180:PRO:HB2	2.31	0.61
1:Y:206:LEU:O	1:Z:210:PRO:HD3	2.01	0.61
1:R:228:PRO:HD3	1:T:228:PRO:C	2.26	0.61
1:X:196:GLY:N	1:B:194:ALA:HA	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:LEU:HB3	1:B:210:PRO:CG	2.30	0.60
1:C:189:PRO:HA	1:E:188:ALA:O	2.01	0.60
1:C:210:PRO:HB3	1:D:207:GLN:CB	2.26	0.60
1:C:224:ALA:N	1:E:221:LEU:HD23	2.16	0.60
1:I:213:PRO:CD	1:K:212:ALA:HB1	2.31	0.60
1:I:217:GLY:HA3	1:J:218:ALA:H	1.65	0.60
1:I:251:LEU:HD12	1:I:254:ALA:CB	2.30	0.60
1:J:243:PRO:CD	1:Z:249:PRO:HG2	2.31	0.60
1:J:252:GLN:OE1	1:K:250:GLY:HA2	2.01	0.60
1:L:256:GLY:H	1:N:258:PRO:HD2	1.66	0.60
1:M:231:GLN:HB2	1:N:230:SER:CB	2.31	0.60
1:O:195:PRO:CA	1:P:196:GLY:HA2	2.31	0.60
1:O:198:PRO:CB	1:P:201:GLN:HG3	2.30	0.60
1:O:217:GLY:HA3	1:P:218:ALA:CB	2.31	0.60
1:P:224:ALA:O	1:Q:226:GLY:HA3	2.00	0.60
1:Y:193:GLY:N	1:1:192:GLN:O	2.33	0.60
1:Y:251:LEU:HD22	1:U:249:PRO:CG	2.31	0.60
1:S:215:SER:CB	1:W:225:PRO:HG3	2.31	0.60
1:S:219:PRO:HG2	1:T:221:LEU:CD2	2.31	0.60
1:U:201:GLN:OE1	1:V:204:PRO:HD2	2.01	0.60
1:X:173:ALA:HB3	1:B:174:PRO:CB	2.31	0.60
1:B:173:ALA:HB2	1:3:220:GLY:N	2.15	0.60
1:C:202:GLY:H	1:D:201:GLN:HA	1.66	0.60
1:C:219:PRO:CD	1:D:214:GLY:HA3	2.32	0.60
1:E:208:GLY:O	1:E:210:PRO:HD3	2.00	0.60
1:F:227:ALA:O	1:H:226:GLY:HA3	2.01	0.60
1:I:233:ALA:HB2	1:Y:236:LEU:HD13	1.82	0.60
1:L:220:GLY:O	1:N:218:ALA:HB1	2.02	0.60
1:M:264:PRO:HA	1:N:268:GLY:CA	2.30	0.60
1:O:225:PRO:HB2	1:1:258:PRO:HB3	1.83	0.60
1:2:219:PRO:HA	1:3:220:GLY:CA	2.31	0.60
1:R:203:ALA:N	1:T:201:GLN:OE1	2.34	0.60
1:R:238:GLY:HA3	1:S:236:LEU:HD23	1.82	0.60
1:X:189:PRO:O	1:A:189:PRO:HB2	2.01	0.60
1:X:207:GLN:NE2	1:B:206:LEU:HD13	2.15	0.60
1:A:167:ALA:HB3	1:K:198:PRO:HG3	1.82	0.60
1:C:192:GLN:NE2	1:D:191:LEU:HB2	2.17	0.60
1:C:210:PRO:HB2	1:D:208:GLY:C	2.26	0.60
1:D:218:ALA:HB3	1:E:220:GLY:CA	2.28	0.60
1:E:171:GLN:HB2	1:K:186:GLN:HG3	1.83	0.60
1:F:201:GLN:O	1:H:203:ALA:HA	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:212:ALA:HA	1:G:212:ALA:HB2	1.82	0.60
1:L:247:GLY:N	1:M:246:GLN:HA	2.16	0.60
1:P:222:GLN:CG	1:Q:225:PRO:HD2	2.26	0.60
1:Y:207:GLN:HA	1:Z:210:PRO:HG3	1.84	0.60
1:Z:232:GLY:N	1:V:225:PRO:HG2	2.16	0.60
1:S:236:LEU:CD2	1:T:240:PRO:HG2	2.29	0.60
1:T:209:ALA:HB1	1:U:222:GLN:C	2.26	0.60
1:U:204:PRO:HD2	1:V:206:LEU:HD11	1.83	0.60
1:V:190:GLY:HA3	1:W:190:GLY:CA	2.31	0.60
1:X:186:GLN:OE1	1:X:187:GLY:N	2.35	0.60
1:A:195:PRO:HB3	1:J:225:PRO:HD2	1.83	0.60
1:C:198:PRO:CA	1:E:198:PRO:HB3	2.31	0.60
1:C:201:GLN:CG	1:E:203:ALA:HB2	2.31	0.60
1:F:183:PRO:HB2	1:H:186:GLN:HG2	1.84	0.60
1:F:222:GLN:O	1:H:221:LEU:HB2	2.02	0.60
1:G:185:SER:O	1:H:187:GLY:N	2.34	0.60
1:G:245:SER:OG	1:G:249:PRO:HG3	2.01	0.60
1:K:227:ALA:HB1	1:K:228:PRO:HD2	1.83	0.60
1:M:204:PRO:C	1:M:206:LEU:HD23	2.26	0.60
1:O:207:GLN:HE22	1:Q:204:PRO:HG2	1.66	0.60
1:P:174:PRO:CD	1:Q:171:GLN:HG3	2.31	0.60
1:Y:250:GLY:HA3	1:Z:251:LEU:CD1	2.28	0.60
1:4:252:GLN:O	1:4:255:PRO:HD2	2.01	0.60
1:R:206:LEU:CA	1:T:206:LEU:HB3	2.30	0.60
1:S:221:LEU:HD23	1:T:222:GLN:O	2.01	0.60
1:T:228:PRO:HG3	1:U:240:PRO:C	2.26	0.60
1:X:167:ALA:HB2	1:A:166:GLY:O	2.01	0.60
1:C:174:PRO:HD2	1:D:175:GLY:CA	2.28	0.60
1:F:186:GLN:HB3	1:G:187:GLY:CA	2.31	0.60
1:F:237:GLN:NE2	1:H:235:GLY:O	2.33	0.60
1:I:221:LEU:CG	1:Z:228:PRO:HD2	2.32	0.60
1:K:254:ALA:O	1:L:268:GLY:HA3	2.02	0.60
1:M:239:ALA:HB1	1:N:243:PRO:CA	2.31	0.60
1:O:225:PRO:HG2	1:1:258:PRO:CA	2.22	0.60
1:O:228:PRO:CG	1:T:244:GLY:HA2	2.32	0.60
1:Y:207:GLN:HB3	1:1:209:ALA:HA	1.84	0.60
1:2:242:ALA:O	1:4:246:GLN:N	2.34	0.60
1:3:257:ALA:CA	1:4:256:GLY:HA2	2.30	0.60
1:R:239:ALA:HB3	1:V:255:PRO:O	2.01	0.60
1:S:229:GLY:HA2	1:T:233:ALA:HB2	1.83	0.60
1:X:162:GLN:O	1:J:196:GLY:HA2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:187:GLY:HA3	1:B:191:LEU:HD21	1.82	0.60
1:A:176:LEU:HD13	1:J:206:LEU:HD21	1.84	0.60
1:C:192:GLN:N	1:E:193:GLY:HA2	2.16	0.60
1:E:221:LEU:O	1:J:236:LEU:HD22	2.01	0.60
1:F:186:GLN:H	1:G:187:GLY:HA3	1.65	0.60
1:G:185:SER:CB	1:H:185:SER:HA	2.15	0.60
1:J:186:GLN:HB2	1:K:187:GLY:CA	2.32	0.60
1:J:251:LEU:CD2	1:J:255:PRO:HB3	2.32	0.60
1:L:266:LEU:CD2	1:M:266:LEU:HD23	2.29	0.60
1:O:192:GLN:NE2	1:P:195:PRO:O	2.34	0.60
1:P:224:ALA:N	1:Q:224:ALA:HB1	2.16	0.60
1:Y:226:GLY:O	1:1:228:PRO:HG2	2.01	0.60
1:Y:237:GLN:O	1:Y:239:ALA:N	2.34	0.60
1:Y:251:LEU:CA	1:1:251:LEU:HB2	2.26	0.60
1:2:243:PRO:HG2	1:3:244:GLY:H	1.67	0.60
1:R:210:PRO:C	1:T:211:GLY:HA2	2.26	0.60
1:S:188:ALA:CB	1:T:189:PRO:HD3	2.25	0.60
1:S:233:ALA:O	1:S:235:GLY:N	2.34	0.60
1:U:230:SER:HA	1:V:228:PRO:HD3	1.84	0.60
1:X:193:GLY:N	1:B:192:GLN:O	2.35	0.60
1:X:209:ALA:N	1:X:210:PRO:HD3	2.17	0.60
1:A:159:PRO:HD2	1:B:162:GLN:CD	2.26	0.60
1:B:188:ALA:HB1	1:B:189:PRO:CD	2.29	0.60
1:D:211:GLY:C	1:E:212:ALA:HB1	2.27	0.60
1:E:216:GLN:HG3	1:E:216:GLN:O	2.02	0.60
1:F:240:PRO:HD2	1:G:236:LEU:O	2.01	0.60
1:I:199:GLY:CA	1:K:200:SER:HB2	2.32	0.60
1:I:219:PRO:HB3	1:J:220:GLY:C	2.26	0.60
1:M:226:GLY:HA2	1:N:228:PRO:HB3	1.82	0.60
1:Y:192:GLN:HA	1:1:192:GLN:O	2.02	0.60
1:Y:230:SER:HB3	1:1:231:GLN:CG	2.31	0.60
1:Z:238:GLY:C	1:2:251:LEU:HD21	2.26	0.60
1:2:210:PRO:CA	1:4:211:GLY:HA3	2.27	0.60
1:3:213:PRO:N	1:4:210:PRO:HB2	2.16	0.60
1:3:229:GLY:N	1:4:230:SER:HB3	2.17	0.60
1:R:221:LEU:C	1:S:223:GLY:HA3	2.26	0.60
1:T:231:GLN:OE1	1:T:232:GLY:N	2.34	0.60
1:V:222:GLN:HA	1:W:223:GLY:H	1.67	0.60
1:A:222:GLN:CB	1:I:255:PRO:HB3	2.32	0.60
1:E:168:PRO:HG2	1:K:185:SER:HA	1.84	0.60
1:I:211:GLY:O	1:I:213:PRO:HD3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:201:GLN:C	1:N:202:GLY:HA3	2.27	0.60
1:O:197:ALA:O	1:Q:198:PRO:HD2	2.02	0.60
1:P:177:GLN:CG	1:Q:174:PRO:HD2	2.32	0.60
1:2:252:GLN:HA	1:4:251:LEU:CG	2.32	0.60
1:R:216:GLN:HB2	1:U:231:GLN:C	2.27	0.60
1:R:237:GLN:H	1:S:237:GLN:HB2	1.66	0.60
1:U:200:SER:OG	1:W:201:GLN:NE2	2.35	0.60
1:U:231:GLN:HB2	1:V:228:PRO:CB	2.32	0.60
1:V:196:GLY:CA	1:W:198:PRO:HG3	2.32	0.60
1:X:195:PRO:HG3	1:A:193:GLY:C	2.27	0.60
1:X:199:GLY:C	1:B:199:GLY:HA3	2.26	0.60
1:C:182:ALA:HB1	1:H:194:ALA:HB2	1.82	0.60
1:F:177:GLN:HG2	1:H:180:PRO:CA	2.32	0.60
1:F:205:GLY:O	1:F:206:LEU:HD22	2.00	0.60
1:J:200:SER:OG	1:K:198:PRO:HB2	2.02	0.60
1:J:242:ALA:HB3	1:J:243:PRO:CD	2.32	0.60
1:O:179:ALA:HB3	1:Q:178:GLY:HA3	1.84	0.60
1:Z:239:ALA:HA	1:2:248:ALA:HB1	1.84	0.60
1:2:206:LEU:CG	1:4:206:LEU:HD23	2.21	0.60
1:R:193:GLY:CA	1:T:194:ALA:HB1	2.31	0.60
1:D:225:PRO:HD2	1:K:243:PRO:HD2	1.83	0.60
1:F:180:PRO:HG3	1:H:181:GLY:H	1.66	0.60
1:F:209:ALA:HB1	1:G:210:PRO:CD	2.32	0.60
1:J:197:ALA:HA	1:K:196:GLY:C	2.27	0.60
1:L:208:GLY:HA3	1:M:207:GLN:C	2.27	0.60
1:L:216:GLN:HG2	1:M:213:PRO:HD3	1.82	0.60
1:M:207:GLN:HG2	1:N:205:GLY:O	2.01	0.60
1:O:222:GLN:HB2	1:P:226:GLY:N	2.16	0.60
1:P:198:PRO:HA	1:Q:198:PRO:CG	2.32	0.60
1:Q:222:GLN:OE1	1:Q:222:GLN:N	2.35	0.60
1:Y:236:LEU:HB2	1:Z:240:PRO:HG2	1.84	0.60
1:Z:200:SER:HA	1:1:199:GLY:O	2.02	0.60
1:2:211:GLY:C	1:3:213:PRO:HG2	2.27	0.60
1:R:215:SER:CA	1:U:230:SER:HB2	2.31	0.60
1:S:190:GLY:O	1:T:190:GLY:N	2.29	0.60
1:T:205:GLY:C	1:U:216:GLN:HA	2.27	0.60
1:U:207:GLN:NE2	1:W:205:GLY:HA2	2.17	0.60
1:X:188:ALA:HA	1:B:190:GLY:HA3	1.84	0.59
1:X:202:GLY:C	1:X:204:PRO:HD2	2.27	0.59
1:C:184:GLY:O	1:E:185:SER:HB3	2.02	0.59
1:E:189:PRO:O	1:E:191:LEU:HG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:187:GLY:HA2	1:H:187:GLY:C	2.27	0.59
1:I:192:GLN:CB	1:K:192:GLN:HB2	2.23	0.59
1:J:239:ALA:HB2	1:1:243:PRO:HB2	1.84	0.59
1:Y:213:PRO:HB2	1:V:207:GLN:NE2	2.17	0.59
1:Y:229:GLY:CA	1:V:221:LEU:HD11	2.30	0.59
1:Y:229:GLY:C	1:Z:231:GLN:HG3	2.26	0.59
1:Y:233:ALA:HB1	1:1:236:LEU:CD2	2.10	0.59
1:2:208:GLY:O	1:2:210:PRO:HD3	2.02	0.59
1:2:225:PRO:HB3	1:4:227:ALA:HB1	1.83	0.59
1:2:233:ALA:HB3	1:4:235:GLY:C	2.27	0.59
1:U:203:ALA:HB1	1:W:205:GLY:HA3	1.83	0.59
1:X:207:GLN:HA	1:A:207:GLN:OE1	2.02	0.59
1:A:175:GLY:HA2	1:B:176:LEU:CD1	2.32	0.59
1:A:197:ALA:HB2	1:K:227:ALA:O	2.02	0.59
1:B:169:GLY:O	1:3:216:GLN:HB2	2.01	0.59
1:C:182:ALA:HA	1:H:193:GLY:C	2.27	0.59
1:C:204:PRO:HD2	1:D:203:ALA:CA	2.21	0.59
1:F:189:PRO:HA	1:G:188:ALA:CB	2.30	0.59
1:F:215:SER:HA	1:F:219:PRO:HG2	1.85	0.59
1:H:206:LEU:CD1	1:H:209:ALA:HA	2.32	0.59
1:J:206:LEU:N	1:K:204:PRO:HD2	2.16	0.59
1:M:223:GLY:HA3	1:N:223:GLY:O	2.03	0.59
1:O:192:GLN:CB	1:P:194:ALA:HB3	2.31	0.59
1:Y:233:ALA:HB3	1:1:235:GLY:O	2.02	0.59
1:Y:258:PRO:HB2	1:1:259:GLY:O	2.02	0.59
1:Z:232:GLY:CA	1:4:245:SER:HB3	2.31	0.59
1:Z:252:GLN:HB3	1:Z:255:PRO:HD3	1.83	0.59
1:1:252:GLN:OE1	1:1:253:GLY:N	2.35	0.59
1:2:241:GLY:O	1:3:242:ALA:HB3	2.02	0.59
1:3:221:LEU:HG	1:4:221:LEU:CB	2.31	0.59
1:S:233:ALA:HB3	1:U:251:LEU:CB	2.27	0.59
1:A:206:LEU:HD22	1:K:237:GLN:CA	2.32	0.59
1:F:204:PRO:HG3	1:H:205:GLY:O	2.01	0.59
1:F:222:GLN:CG	1:G:216:GLN:HB3	2.32	0.59
1:G:240:PRO:N	1:G:243:PRO:HG3	2.17	0.59
1:I:225:PRO:O	1:1:235:GLY:HA3	2.02	0.59
1:J:252:GLN:CD	1:K:250:GLY:HA2	2.26	0.59
1:M:243:PRO:HG2	1:N:245:SER:OG	2.03	0.59
1:O:210:PRO:HA	1:P:212:ALA:CA	2.33	0.59
1:O:212:ALA:O	1:Q:216:GLN:HA	2.02	0.59
1:P:174:PRO:O	1:P:176:LEU:HD23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:226:GLY:HA3	1:1:229:GLY:CA	2.15	0.59
1:Z:256:GLY:C	1:2:267:GLN:HG3	2.26	0.59
1:2:261:GLN:HG2	1:4:261:GLN:O	2.02	0.59
1:3:266:LEU:HG	1:3:267:GLN:N	2.16	0.59
1:R:218:ALA:HA	1:U:234:PRO:N	2.17	0.59
1:U:186:GLN:HB2	1:V:186:GLN:N	2.18	0.59
1:X:164:ALA:HB2	1:A:163:GLY:CA	2.33	0.59
1:X:195:PRO:HB3	1:A:194:ALA:HA	1.82	0.59
1:A:189:PRO:O	1:A:191:LEU:HD22	2.03	0.59
1:B:199:GLY:HA2	1:B:201:GLN:CD	2.27	0.59
1:C:190:GLY:HA3	1:E:190:GLY:CA	2.25	0.59
1:E:189:PRO:HG2	1:J:204:PRO:CA	2.33	0.59
1:M:237:GLN:CG	1:M:240:PRO:HG3	2.33	0.59
1:Y:216:GLN:NE2	1:1:219:PRO:HB2	2.16	0.59
1:R:211:GLY:CA	1:U:225:PRO:HA	2.27	0.59
1:R:212:ALA:HB3	1:S:214:GLY:HA2	1.85	0.59
1:S:203:ALA:N	1:S:204:PRO:HD3	2.17	0.59
1:U:198:PRO:HG3	1:W:198:PRO:HG2	1.83	0.59
1:U:219:PRO:HA	1:W:218:ALA:HB3	1.85	0.59
1:V:231:GLN:HB2	1:W:231:GLN:N	2.17	0.59
1:X:176:LEU:HD12	1:B:178:GLY:HA3	1.84	0.59
1:D:175:GLY:O	1:D:176:LEU:HD23	2.03	0.59
1:F:230:SER:CA	1:G:228:PRO:HA	2.32	0.59
1:G:235:GLY:O	1:H:238:GLY:HA3	2.02	0.59
1:I:204:PRO:HG3	1:J:203:ALA:HB1	1.85	0.59
1:J:229:GLY:N	1:1:236:LEU:HB2	2.17	0.59
1:J:244:GLY:N	1:1:249:PRO:HB3	2.16	0.59
1:L:204:PRO:HB3	1:M:205:GLY:HA3	1.83	0.59
1:M:231:GLN:HG3	1:N:230:SER:OG	2.01	0.59
1:O:222:GLN:CB	1:P:226:GLY:HA3	2.33	0.59
1:P:204:PRO:HD2	1:Q:202:GLY:CA	2.24	0.59
1:Z:248:ALA:HA	1:1:248:ALA:C	2.26	0.59
1:R:208:GLY:HA3	1:T:209:ALA:H	1.68	0.59
1:R:212:ALA:O	1:S:215:SER:HB2	2.03	0.59
1:U:189:PRO:HG3	1:W:188:ALA:CB	2.32	0.59
1:U:194:ALA:HA	1:V:193:GLY:HA3	1.83	0.59
1:U:235:GLY:HA2	1:W:234:PRO:CD	2.32	0.59
1:X:162:GLN:N	1:X:162:GLN:OE1	2.35	0.59
1:X:211:GLY:N	1:A:210:PRO:HG3	2.17	0.59
1:C:185:SER:CB	1:E:185:SER:HA	2.32	0.59
1:F:177:GLN:CB	1:H:180:PRO:HA	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:186:GLN:OE1	1:G:188:ALA:N	2.35	0.59
1:F:206:LEU:HB2	1:G:207:GLN:O	2.03	0.59
1:I:185:SER:CB	1:J:188:ALA:HA	2.32	0.59
1:I:221:LEU:HG	1:Y:224:ALA:HB1	1.85	0.59
1:L:236:LEU:HA	1:M:235:GLY:HA2	1.85	0.59
1:L:251:LEU:HG	1:L:252:GLN:OE1	2.02	0.59
1:Y:230:SER:N	1:Z:231:GLN:HG3	2.17	0.59
1:2:258:PRO:HA	1:3:261:GLN:CD	2.28	0.59
1:R:219:PRO:HA	1:S:220:GLY:C	2.28	0.59
1:S:200:SER:HA	1:T:199:GLY:C	2.27	0.59
1:S:217:GLY:O	1:T:218:ALA:HA	2.03	0.59
1:C:198:PRO:HG2	1:D:198:PRO:CA	2.28	0.59
1:C:238:GLY:CA	1:D:236:LEU:HD23	2.32	0.59
1:F:193:GLY:O	1:F:194:ALA:HB2	2.03	0.59
1:F:198:PRO:HG2	1:F:200:SER:OG	2.03	0.59
1:I:190:GLY:C	1:K:191:LEU:HD13	2.28	0.59
1:I:218:ALA:N	1:J:218:ALA:O	2.27	0.59
1:I:240:PRO:HG3	1:J:243:PRO:HG2	1.84	0.59
1:I:247:GLY:O	1:I:252:GLN:NE2	2.35	0.59
1:I:256:GLY:HA3	1:K:257:ALA:C	2.27	0.59
1:L:221:LEU:HD22	1:N:220:GLY:O	2.03	0.59
1:Y:213:PRO:HB3	1:W:206:LEU:CD2	2.32	0.59
1:Y:217:GLY:CA	1:1:222:GLN:HG3	2.32	0.59
1:1:228:PRO:HD2	1:4:238:GLY:HA3	1.83	0.59
1:2:270:PRO:HD2	1:3:272:ALA:O	2.02	0.59
1:4:251:LEU:CD1	1:4:255:PRO:HG2	2.33	0.59
1:U:183:PRO:HA	1:V:183:PRO:HG2	1.85	0.59
1:X:157:GLY:HA3	1:I:185:SER:CB	2.32	0.59
1:X:204:PRO:HD3	1:B:204:PRO:HD2	1.84	0.59
1:A:188:ALA:CA	1:J:219:PRO:HG3	2.33	0.59
1:A:198:PRO:HG2	1:K:231:GLN:HG3	1.83	0.59
1:C:227:ALA:HB3	1:E:226:GLY:N	2.17	0.59
1:D:225:PRO:HD3	1:K:243:PRO:HD2	1.84	0.59
1:G:195:PRO:HB2	1:H:198:PRO:CD	2.33	0.59
1:H:206:LEU:HD11	1:H:208:GLY:O	2.03	0.59
1:I:245:SER:O	1:I:249:PRO:HG3	2.03	0.59
1:L:230:SER:OG	1:M:229:GLY:O	2.20	0.59
1:M:245:SER:C	1:N:249:PRO:HD3	2.28	0.59
1:O:216:GLN:CG	1:O:219:PRO:HG3	2.33	0.59
1:P:177:GLN:OE1	1:Q:174:PRO:HB2	2.02	0.59
1:P:177:GLN:CA	1:Q:175:GLY:HA2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:192:GLN:HE22	1:1:195:PRO:HD3	1.68	0.59
1:Y:248:ALA:H	1:W:243:PRO:HG2	1.66	0.59
1:3:249:PRO:HB2	1:4:249:PRO:CA	2.33	0.59
1:V:239:ALA:HB3	1:W:239:ALA:HB3	1.84	0.59
1:A:176:LEU:HD23	1:I:205:GLY:HA3	1.84	0.59
1:A:176:LEU:HD21	1:J:206:LEU:CD1	2.33	0.59
1:C:192:GLN:OE1	1:E:195:PRO:HD3	2.02	0.59
1:F:204:PRO:HG2	1:H:207:GLN:HE22	1.68	0.59
1:I:237:GLN:HE21	1:I:240:PRO:HD3	1.67	0.59
1:I:242:ALA:C	1:J:246:GLN:HG2	2.28	0.59
1:J:188:ALA:HB3	1:K:189:PRO:CD	2.33	0.59
1:O:167:ALA:HB3	1:P:169:GLY:CA	2.25	0.59
1:O:221:LEU:HD21	1:1:255:PRO:O	2.01	0.59
1:O:228:PRO:CB	1:Q:228:PRO:HG2	2.33	0.59
1:P:222:GLN:HG3	1:Q:225:PRO:CG	2.32	0.59
1:Z:236:LEU:HB2	1:1:240:PRO:CG	2.27	0.59
1:2:238:GLY:C	1:4:241:GLY:HA3	2.27	0.59
1:2:265:GLY:HA3	1:3:269:ALA:HA	1.85	0.59
1:R:198:PRO:HB3	1:S:201:GLN:OE1	2.02	0.59
1:S:219:PRO:HG2	1:T:221:LEU:HD21	1.84	0.59
1:U:196:GLY:CA	1:V:195:PRO:HA	2.33	0.59
1:F:192:GLN:O	1:G:192:GLN:HA	2.03	0.59
1:I:200:SER:HB2	1:L:213:PRO:CD	2.32	0.59
1:I:209:ALA:C	1:K:210:PRO:HB3	2.28	0.59
1:I:233:ALA:HB1	1:Y:237:GLN:HG2	1.85	0.59
1:L:229:GLY:CA	1:M:226:GLY:HA3	2.22	0.59
1:M:260:SER:HA	1:N:262:GLY:O	2.03	0.59
1:P:215:SER:HA	1:Q:216:GLN:CB	2.32	0.59
1:Y:253:GLY:O	1:Y:255:PRO:HD3	2.03	0.59
1:2:220:GLY:HA3	1:3:222:GLN:HA	1.84	0.59
1:R:213:PRO:N	1:T:213:PRO:HD2	2.18	0.59
1:R:228:PRO:CB	1:U:243:PRO:HB3	2.33	0.59
1:T:205:GLY:CA	1:U:216:GLN:HA	2.32	0.59
1:T:237:GLN:HG3	1:T:238:GLY:N	2.16	0.59
1:U:221:LEU:HB3	1:U:224:ALA:HA	1.83	0.59
1:C:205:GLY:HA3	1:E:206:LEU:CD2	2.32	0.58
1:D:221:LEU:HD13	1:J:236:LEU:HB2	1.84	0.58
1:E:190:GLY:HA3	1:J:207:GLN:CG	2.32	0.58
1:F:197:ALA:HA	1:G:198:PRO:CG	2.33	0.58
1:G:180:PRO:HB3	1:H:180:PRO:HG2	1.84	0.58
1:I:190:GLY:HA2	1:J:190:GLY:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:243:PRO:HG3	1:J:246:GLN:H	1.68	0.58
1:L:227:ALA:N	1:N:224:ALA:O	2.36	0.58
1:M:205:GLY:HA3	1:N:205:GLY:C	2.28	0.58
1:M:245:SER:HB3	1:N:246:GLN:HG2	1.84	0.58
1:Y:210:PRO:CG	1:1:213:PRO:HD3	2.20	0.58
1:Z:239:ALA:HB1	1:Z:240:PRO:CD	2.32	0.58
1:2:225:PRO:CB	1:4:227:ALA:HB1	2.33	0.58
1:2:235:GLY:N	1:3:235:GLY:O	2.35	0.58
1:2:244:GLY:HA2	1:3:244:GLY:CA	2.31	0.58
1:R:185:SER:OG	1:S:185:SER:HA	2.03	0.58
1:R:193:GLY:N	1:T:194:ALA:HB1	2.17	0.58
1:U:207:GLN:HB3	1:W:207:GLN:HB2	1.85	0.58
1:W:237:GLN:OE1	1:W:240:PRO:HB3	2.03	0.58
1:X:164:ALA:HA	1:A:165:PRO:O	2.03	0.58
1:X:177:GLN:H	1:B:178:GLY:HA3	1.68	0.58
1:B:223:GLY:CA	1:4:273:PRO:HG3	2.33	0.58
1:D:232:GLY:HA3	1:E:234:PRO:CA	2.32	0.58
1:J:243:PRO:HD3	1:Z:249:PRO:HG2	1.84	0.58
1:L:253:GLY:HA2	1:N:251:LEU:HD23	1.85	0.58
1:O:189:PRO:HB3	1:Q:191:LEU:CD1	2.26	0.58
1:O:206:LEU:HD13	1:1:239:ALA:N	2.18	0.58
1:P:211:GLY:C	1:P:213:PRO:HD3	2.28	0.58
1:P:219:PRO:CA	1:Q:221:LEU:HA	2.32	0.58
1:Y:190:GLY:N	1:1:191:LEU:HG	2.18	0.58
1:3:216:GLN:HE21	1:4:215:SER:HB2	1.66	0.58
1:3:223:GLY:HA2	1:4:225:PRO:CD	2.32	0.58
1:R:213:PRO:CA	1:T:213:PRO:HD2	2.33	0.58
1:T:210:PRO:HD2	1:U:222:GLN:O	2.03	0.58
1:U:242:ALA:HB2	1:V:241:GLY:C	2.28	0.58
1:C:183:PRO:HD2	1:H:194:ALA:O	2.03	0.58
1:C:191:LEU:HD12	1:E:191:LEU:C	2.27	0.58
1:C:196:GLY:O	1:D:198:PRO:HD3	2.03	0.58
1:C:210:PRO:HB2	1:D:209:ALA:CA	2.33	0.58
1:C:230:SER:H	1:E:227:ALA:HB3	1.68	0.58
1:F:230:SER:HB2	1:H:229:GLY:C	2.28	0.58
1:G:199:GLY:HA2	1:H:200:SER:HA	1.85	0.58
1:I:197:ALA:HB2	1:J:199:GLY:O	2.03	0.58
1:I:221:LEU:HG	1:Y:224:ALA:CB	2.33	0.58
1:P:205:GLY:HA3	1:Q:203:ALA:HB2	1.85	0.58
1:Y:204:PRO:HG2	1:1:204:PRO:HG3	1.84	0.58
1:Y:205:GLY:C	1:Z:206:LEU:HD11	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:211:GLY:C	1:Z:215:SER:HB3	2.28	0.58
1:Z:211:GLY:N	1:1:210:PRO:HD2	2.18	0.58
1:2:212:ALA:HB2	1:3:213:PRO:HB2	1.84	0.58
1:R:229:GLY:HA3	1:S:231:GLN:CA	2.33	0.58
1:S:200:SER:HA	1:T:199:GLY:O	2.03	0.58
1:U:236:LEU:HB2	1:W:236:LEU:CD2	2.32	0.58
1:U:250:GLY:HA2	1:W:250:GLY:CA	2.32	0.58
1:X:200:SER:HB3	1:A:201:GLN:CD	2.28	0.58
1:A:196:GLY:H	1:B:198:PRO:HB2	1.67	0.58
1:C:194:ALA:HB1	1:C:197:ALA:HB3	1.86	0.58
1:C:222:GLN:HB2	1:D:219:PRO:CA	2.31	0.58
1:F:190:GLY:C	1:G:191:LEU:HA	2.28	0.58
1:F:195:PRO:HD3	1:H:194:ALA:H	1.68	0.58
1:G:195:PRO:HA	1:H:195:PRO:CD	2.34	0.58
1:H:237:GLN:O	1:H:237:GLN:HG2	2.03	0.58
1:I:211:GLY:CA	1:J:213:PRO:HB2	2.30	0.58
1:I:224:ALA:HB2	1:1:233:ALA:CB	2.33	0.58
1:L:259:GLY:N	1:M:259:GLY:O	2.32	0.58
1:2:239:ALA:HB3	1:3:241:GLY:O	2.03	0.58
1:2:243:PRO:HA	1:4:245:SER:H	1.66	0.58
1:2:252:GLN:HA	1:4:251:LEU:HG	1.85	0.58
1:R:212:ALA:HA	1:W:225:PRO:HD3	1.84	0.58
1:R:214:GLY:O	1:U:231:GLN:NE2	2.37	0.58
1:U:192:GLN:HB2	1:W:195:PRO:CG	2.33	0.58
1:U:197:ALA:HA	1:V:197:ALA:C	2.27	0.58
1:U:223:GLY:H	1:W:220:GLY:HA3	1.68	0.58
1:X:210:PRO:HA	1:A:210:PRO:HG3	1.83	0.58
1:I:209:ALA:O	1:J:213:PRO:HD2	2.02	0.58
1:J:213:PRO:HD3	1:K:210:PRO:HB2	1.84	0.58
1:M:245:SER:H	1:N:246:GLN:HG2	1.68	0.58
1:M:249:PRO:HB2	1:N:250:GLY:HA3	1.84	0.58
1:P:226:GLY:CA	1:Q:227:ALA:HB3	2.34	0.58
1:Y:212:ALA:CA	1:1:213:PRO:HG2	2.33	0.58
1:Z:201:GLN:HB3	1:1:200:SER:CB	2.33	0.58
1:Z:220:GLY:O	1:1:221:LEU:HD23	2.03	0.58
1:2:269:ALA:HB1	1:3:272:ALA:CA	2.34	0.58
1:4:247:GLY:O	1:4:248:ALA:HB3	2.03	0.58
1:R:219:PRO:HG3	1:T:222:GLN:CB	2.33	0.58
1:R:237:GLN:OE1	1:R:240:PRO:HD3	2.03	0.58
1:U:255:PRO:HB3	1:W:256:GLY:CA	2.34	0.58
1:V:218:ALA:HB3	1:W:219:PRO:CG	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:GLY:CA	1:B:185:SER:HA	2.34	0.58
1:B:189:PRO:HB2	1:4:236:LEU:HB2	1.84	0.58
1:C:196:GLY:C	1:C:198:PRO:HD3	2.28	0.58
1:G:199:GLY:HA2	1:H:201:GLN:N	2.17	0.58
1:J:203:ALA:HB2	1:K:201:GLN:HB3	1.85	0.58
1:K:229:GLY:O	1:K:231:GLN:NE2	2.37	0.58
1:M:225:PRO:C	1:N:228:PRO:HG3	2.28	0.58
1:O:176:LEU:CD1	1:P:178:GLY:HA2	2.29	0.58
1:Y:198:PRO:CB	1:1:198:PRO:HG2	2.34	0.58
1:Y:228:PRO:HB2	1:V:221:LEU:HD13	1.84	0.58
1:2:210:PRO:HA	1:3:213:PRO:CD	2.33	0.58
1:2:232:GLY:O	1:3:232:GLY:HA3	2.04	0.58
1:4:215:SER:O	1:4:216:GLN:HB2	2.04	0.58
1:X:158:ALA:CB	1:B:161:LEU:HB3	2.31	0.58
1:B:199:GLY:HA2	1:B:201:GLN:HE22	1.66	0.58
1:C:197:ALA:HB2	1:D:195:PRO:O	2.04	0.58
1:C:203:ALA:HB2	1:D:204:PRO:HG2	1.86	0.58
1:C:234:PRO:HD2	1:D:232:GLY:N	2.19	0.58
1:D:177:GLN:O	1:E:178:GLY:HA3	2.03	0.58
1:D:234:PRO:CB	1:E:238:GLY:HA2	2.34	0.58
1:F:178:GLY:C	1:F:180:PRO:HD3	2.29	0.58
1:F:210:PRO:HB3	1:H:210:PRO:O	2.03	0.58
1:J:205:GLY:HA3	1:K:203:ALA:CB	2.34	0.58
1:J:231:GLN:OE1	1:L:245:SER:HA	2.04	0.58
1:M:204:PRO:CG	1:N:204:PRO:HB3	2.34	0.58
1:M:211:GLY:C	1:M:213:PRO:HD2	2.28	0.58
1:O:187:GLY:N	1:Q:185:SER:HA	2.19	0.58
1:O:221:LEU:O	1:Q:226:GLY:HA2	2.04	0.58
1:P:186:GLN:HG2	1:P:187:GLY:H	1.67	0.58
1:Q:206:LEU:HD12	1:Q:207:GLN:H	1.69	0.58
1:Y:239:ALA:HB3	1:V:234:PRO:CA	2.34	0.58
1:Y:241:GLY:HA2	1:Z:245:SER:CB	2.25	0.58
1:Y:251:LEU:HB3	1:U:248:ALA:HB3	1.86	0.58
1:Y:251:LEU:CA	1:1:250:GLY:O	2.51	0.58
1:Z:209:ALA:HB1	1:Z:210:PRO:HD2	1.85	0.58
1:R:177:GLN:HB3	1:S:177:GLN:OE1	2.03	0.58
1:U:212:ALA:HB1	1:V:213:PRO:CG	2.33	0.58
1:U:242:ALA:CB	1:V:241:GLY:HA3	2.34	0.58
1:X:204:PRO:HD3	1:B:204:PRO:HB2	1.86	0.58
1:A:196:GLY:O	1:D:210:PRO:HB2	2.04	0.58
1:I:236:LEU:HD12	1:K:236:LEU:HD21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:237:GLN:HG3	1:J:242:ALA:H	1.68	0.58
1:I:239:ALA:HB2	1:K:242:ALA:HB2	1.84	0.58
1:I:252:GLN:HE21	1:K:249:PRO:HA	1.66	0.58
1:L:221:LEU:CB	1:N:221:LEU:HB2	2.28	0.58
1:O:193:GLY:O	1:S:206:LEU:HD13	2.03	0.58
1:O:199:GLY:N	1:Q:200:SER:OG	2.37	0.58
1:P:172:GLY:O	1:P:174:PRO:HD3	2.04	0.58
1:P:218:ALA:N	1:Q:219:PRO:O	2.37	0.58
1:Y:202:GLY:O	1:Y:204:PRO:HD3	2.03	0.58
1:Y:242:ALA:HB1	1:V:237:GLN:HE21	1.69	0.58
1:3:242:ALA:N	1:3:243:PRO:HD3	2.19	0.58
1:3:253:GLY:O	1:3:255:PRO:HD3	2.03	0.58
1:R:215:SER:CB	1:U:230:SER:HB2	2.33	0.58
1:R:232:GLY:O	1:S:232:GLY:HA3	2.04	0.58
1:T:215:SER:O	1:T:219:PRO:HG3	2.03	0.58
1:T:238:GLY:C	1:T:240:PRO:HD3	2.28	0.58
1:V:224:ALA:HB2	1:W:224:ALA:HB3	1.85	0.58
1:X:189:PRO:C	1:X:191:LEU:HD23	2.29	0.58
1:X:195:PRO:HB2	1:X:198:PRO:CG	2.34	0.58
1:C:214:GLY:O	1:D:212:ALA:HB1	2.03	0.58
1:C:227:ALA:HA	1:D:222:GLN:HE21	1.69	0.58
1:D:212:ALA:HB3	1:E:214:GLY:CA	2.34	0.58
1:F:201:GLN:HA	1:G:202:GLY:N	2.18	0.58
1:F:207:GLN:C	1:H:207:GLN:HB2	2.29	0.58
1:I:215:SER:OG	1:J:215:SER:HB3	2.04	0.58
1:J:205:GLY:HA3	1:K:203:ALA:CA	2.32	0.58
1:Y:216:GLN:CB	1:Z:219:PRO:HG3	2.33	0.58
1:2:226:GLY:N	1:4:228:PRO:O	2.36	0.58
1:2:243:PRO:CB	1:4:243:PRO:HD2	2.33	0.58
1:3:204:PRO:HB2	1:4:206:LEU:H	1.69	0.58
1:R:195:PRO:HA	1:S:197:ALA:HB1	1.86	0.58
1:R:203:ALA:HA	1:T:203:ALA:O	2.04	0.58
1:R:206:LEU:H	1:S:206:LEU:HA	1.68	0.58
1:R:236:LEU:CB	1:T:236:LEU:HD21	2.23	0.58
1:S:180:PRO:HG3	1:T:177:GLN:O	2.03	0.58
1:U:189:PRO:HB3	1:W:192:GLN:CB	2.33	0.58
1:U:193:GLY:C	1:W:194:ALA:HA	2.28	0.58
1:U:211:GLY:C	1:V:210:PRO:HA	2.29	0.58
1:X:155:SER:HA	1:B:157:GLY:HA3	1.86	0.58
1:X:155:SER:H	1:B:156:GLN:HB3	1.69	0.58
1:X:157:GLY:HA3	1:I:185:SER:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:213:PRO:HD2	1:A:212:ALA:HA	1.86	0.58
1:A:225:PRO:CA	1:4:274:GLY:HA3	2.15	0.58
1:B:221:LEU:HD12	1:4:267:GLN:C	2.29	0.58
1:C:226:GLY:HA2	1:E:224:ALA:O	2.04	0.58
1:D:169:GLY:N	1:E:172:GLY:HA3	2.19	0.58
1:L:208:GLY:HA2	1:M:210:PRO:CG	2.19	0.58
1:L:216:GLN:N	1:M:213:PRO:HA	2.19	0.58
1:L:219:PRO:CG	1:M:215:SER:HB3	2.30	0.58
1:M:221:LEU:HD13	1:O:184:GLY:HA2	1.85	0.58
1:P:174:PRO:HD2	1:Q:171:GLN:HG3	1.85	0.58
1:Z:197:ALA:HA	1:1:195:PRO:HB2	1.85	0.58
1:Z:212:ALA:HB2	1:1:210:PRO:HG2	1.86	0.58
1:2:219:PRO:HG2	1:4:225:PRO:HD3	1.86	0.58
1:S:202:GLY:C	1:S:204:PRO:HD3	2.28	0.58
1:U:235:GLY:HA3	1:W:233:ALA:HB3	1.86	0.58
1:X:201:GLN:N	1:B:201:GLN:OE1	2.36	0.57
1:X:207:GLN:HA	1:A:206:LEU:HA	1.85	0.57
1:A:178:GLY:N	1:B:178:GLY:O	2.35	0.57
1:A:195:PRO:HD2	1:B:198:PRO:HG3	1.85	0.57
1:E:172:GLY:HA2	1:K:188:ALA:CA	2.34	0.57
1:F:182:ALA:HB3	1:G:186:GLN:HE22	1.68	0.57
1:F:211:GLY:O	1:H:213:PRO:HD2	2.04	0.57
1:F:231:GLN:HG2	1:G:228:PRO:HB3	1.85	0.57
1:I:238:GLY:H	1:J:240:PRO:HB3	1.69	0.57
1:J:229:GLY:CA	1:1:236:LEU:HB2	2.34	0.57
1:J:250:GLY:HA2	1:K:248:ALA:CB	2.32	0.57
1:M:236:LEU:N	1:N:238:GLY:HA3	2.19	0.57
1:M:263:ALA:O	1:N:268:GLY:HA2	2.04	0.57
1:O:210:PRO:C	1:Q:213:PRO:HD3	2.30	0.57
1:P:215:SER:HA	1:Q:216:GLN:HB2	1.86	0.57
1:Y:244:GLY:O	1:V:240:PRO:HB3	2.04	0.57
1:Y:252:GLN:HA	1:1:252:GLN:CG	2.32	0.57
1:2:241:GLY:H	1:4:244:GLY:HA3	1.69	0.57
1:3:264:PRO:HG2	1:4:264:PRO:CG	2.34	0.57
1:V:216:GLN:N	1:W:217:GLY:HA3	2.18	0.57
1:X:211:GLY:H	1:A:210:PRO:HG3	1.67	0.57
1:F:244:GLY:CA	1:G:240:PRO:HG2	2.34	0.57
1:G:209:ALA:HB1	1:G:210:PRO:HD2	1.84	0.57
1:O:176:LEU:HG	1:P:177:GLN:C	2.28	0.57
1:O:202:GLY:HA2	1:1:235:GLY:CA	2.34	0.57
1:P:210:PRO:HG3	1:Q:210:PRO:HD2	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:234:PRO:C	1:W:229:GLY:HA3	2.28	0.57
1:2:257:ALA:O	1:3:260:SER:N	2.31	0.57
1:R:215:SER:O	1:S:217:GLY:HA2	2.05	0.57
1:R:221:LEU:CD1	1:R:222:GLN:HG2	2.34	0.57
1:R:222:GLN:O	1:S:225:PRO:HA	2.04	0.57
1:X:165:PRO:HA	1:B:166:GLY:HA3	1.87	0.57
1:X:200:SER:HB3	1:A:201:GLN:CG	2.34	0.57
1:C:188:ALA:HB3	1:D:189:PRO:N	2.20	0.57
1:F:225:PRO:CG	1:H:223:GLY:HA2	2.32	0.57
1:G:195:PRO:CG	1:H:195:PRO:HB2	2.34	0.57
1:I:204:PRO:HD2	1:K:204:PRO:HB3	1.87	0.57
1:I:231:GLN:CA	1:J:232:GLY:HA3	2.22	0.57
1:I:252:GLN:HG2	1:K:249:PRO:CA	2.34	0.57
1:J:237:GLN:NE2	1:K:239:ALA:HB1	2.18	0.57
1:K:255:PRO:CD	1:M:266:LEU:HD11	2.34	0.57
1:N:207:GLN:HG2	1:N:207:GLN:O	2.05	0.57
1:Y:234:PRO:N	1:1:236:LEU:HD13	2.19	0.57
1:Y:246:GLN:OE1	1:Y:246:GLN:N	2.36	0.57
1:3:204:PRO:HD2	1:4:203:ALA:O	2.03	0.57
1:4:251:LEU:HG	1:4:255:PRO:HG2	1.85	0.57
1:A:198:PRO:CG	1:K:231:GLN:HG3	2.35	0.57
1:B:179:ALA:CB	1:2:221:LEU:HD11	2.34	0.57
1:C:192:GLN:CB	1:E:193:GLY:HA2	2.31	0.57
1:D:167:ALA:CA	1:E:167:ALA:HB1	2.34	0.57
1:D:207:GLN:HG2	1:E:210:PRO:HD3	1.86	0.57
1:D:234:PRO:HB3	1:J:259:GLY:O	2.05	0.57
1:E:206:LEU:HB3	1:K:223:GLY:CA	2.32	0.57
1:F:225:PRO:HG3	1:G:220:GLY:O	2.04	0.57
1:F:230:SER:HA	1:G:227:ALA:C	2.29	0.57
1:F:230:SER:OG	1:G:231:GLN:HB2	2.04	0.57
1:I:243:PRO:HD3	1:J:245:SER:CA	2.30	0.57
1:J:203:ALA:CA	1:K:201:GLN:HB2	2.34	0.57
1:L:238:GLY:HA2	1:N:237:GLN:H	1.70	0.57
1:L:255:PRO:CB	1:M:255:PRO:HG3	2.34	0.57
1:P:210:PRO:CA	1:Q:209:ALA:HA	2.34	0.57
1:Z:238:GLY:N	1:V:233:ALA:HA	2.19	0.57
1:Z:243:PRO:CD	1:2:251:LEU:HD13	2.34	0.57
1:2:232:GLY:HA2	1:4:234:PRO:C	2.29	0.57
1:2:270:PRO:HD3	1:3:273:PRO:HA	1.85	0.57
1:R:243:PRO:HA	1:S:246:GLN:OE1	2.04	0.57
1:U:200:SER:HB2	1:V:201:GLN:CD	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:210:PRO:HD3	1:W:208:GLY:HA3	1.84	0.57
1:C:224:ALA:HA	1:E:223:GLY:HA2	1.84	0.57
1:E:198:PRO:HB3	1:K:213:PRO:HG3	1.85	0.57
1:E:239:ALA:HA	1:J:258:PRO:HG2	1.86	0.57
1:I:240:PRO:O	1:I:243:PRO:HD2	2.03	0.57
1:L:198:PRO:HG2	1:M:198:PRO:N	2.20	0.57
1:Y:251:LEU:HA	1:1:250:GLY:O	2.04	0.57
1:Z:221:LEU:HB3	1:1:223:GLY:HA2	1.86	0.57
1:2:210:PRO:HB3	1:4:212:ALA:N	2.20	0.57
1:2:223:GLY:C	1:3:225:PRO:HA	2.29	0.57
1:3:219:PRO:HB2	1:4:221:LEU:CG	2.34	0.57
1:S:177:GLN:HG3	1:T:174:PRO:HD2	1.85	0.57
1:W:247:GLY:O	1:W:248:ALA:HB3	2.04	0.57
1:X:215:SER:HB3	1:A:213:PRO:HB3	1.85	0.57
1:A:195:PRO:HB3	1:J:225:PRO:N	2.18	0.57
1:I:240:PRO:CD	1:J:243:PRO:HG2	2.34	0.57
1:J:203:ALA:N	1:K:201:GLN:HB2	2.19	0.57
1:L:215:SER:C	1:M:213:PRO:HA	2.29	0.57
1:L:257:ALA:HB3	1:N:259:GLY:N	2.20	0.57
1:P:213:PRO:HD2	1:Q:212:ALA:CB	2.33	0.57
1:P:226:GLY:HA2	1:Q:227:ALA:CB	2.34	0.57
1:Y:217:GLY:O	1:Y:219:PRO:HD3	2.04	0.57
1:Y:220:GLY:O	1:1:225:PRO:HD3	2.04	0.57
1:Y:243:PRO:CG	1:Z:244:GLY:HA2	2.35	0.57
1:U:247:GLY:HA3	1:V:249:PRO:CG	2.34	0.57
1:X:203:ALA:HB3	1:B:203:ALA:C	2.30	0.57
1:A:188:ALA:HB2	1:J:219:PRO:CB	2.34	0.57
1:C:233:ALA:HB1	1:D:231:GLN:OE1	2.05	0.57
1:E:191:LEU:HD21	1:J:206:LEU:O	2.05	0.57
1:F:217:GLY:HA2	1:G:214:GLY:CA	2.35	0.57
1:G:199:GLY:N	1:H:200:SER:HA	2.19	0.57
1:J:242:ALA:HB1	1:Z:247:GLY:HA3	1.84	0.57
1:L:200:SER:HB3	1:M:201:GLN:H	1.70	0.57
1:L:225:PRO:O	1:M:222:GLN:HA	2.03	0.57
1:L:258:PRO:HG2	1:N:258:PRO:HB2	1.86	0.57
1:O:171:GLN:CD	1:O:174:PRO:HA	2.29	0.57
1:P:204:PRO:HD2	1:Q:201:GLN:O	2.05	0.57
1:Z:201:GLN:HB3	1:1:200:SER:CA	2.34	0.57
1:2:249:PRO:HG2	1:4:248:ALA:HA	1.87	0.57
1:2:252:GLN:CA	1:4:251:LEU:HD23	2.34	0.57
1:2:264:PRO:HD2	1:4:264:PRO:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:237:GLN:HB2	1:4:239:ALA:HB1	1.86	0.57
1:R:210:PRO:HB2	1:W:222:GLN:O	2.05	0.57
1:S:183:PRO:HG3	1:T:181:GLY:O	2.05	0.57
1:S:199:GLY:O	1:S:201:GLN:NE2	2.37	0.57
1:U:201:GLN:N	1:W:202:GLY:HA2	2.16	0.57
1:U:236:LEU:HD13	1:W:236:LEU:HD11	1.87	0.57
1:X:177:GLN:HG2	1:B:177:GLN:HB2	1.86	0.57
1:B:221:LEU:HA	1:4:267:GLN:HG3	1.87	0.57
1:C:227:ALA:CB	1:E:225:PRO:HA	2.35	0.57
1:D:175:GLY:HA2	1:E:176:LEU:HA	1.87	0.57
1:F:206:LEU:N	1:G:207:GLN:OE1	2.37	0.57
1:F:211:GLY:H	1:G:210:PRO:HB3	1.68	0.57
1:J:220:GLY:HA2	1:K:222:GLN:H	1.70	0.57
1:L:211:GLY:HA3	1:N:209:ALA:HB3	1.86	0.57
1:L:247:GLY:O	1:N:249:PRO:HG2	2.04	0.57
1:L:249:PRO:HG2	1:N:252:GLN:CA	2.33	0.57
1:L:255:PRO:HA	1:N:257:ALA:CA	2.34	0.57
1:O:194:ALA:HB2	1:S:206:LEU:HD13	1.86	0.57
1:P:203:ALA:HB3	1:P:206:LEU:CD1	2.34	0.57
1:Y:215:SER:HA	1:1:215:SER:OG	2.05	0.57
1:Y:236:LEU:CB	1:Z:240:PRO:HG2	2.35	0.57
1:3:223:GLY:HA2	1:4:225:PRO:N	2.20	0.57
1:4:210:PRO:HD3	1:V:191:LEU:CD2	2.35	0.57
1:4:252:GLN:OE1	1:4:254:ALA:N	2.32	0.57
1:S:197:ALA:CB	1:T:195:PRO:HG2	2.27	0.57
1:U:196:GLY:HA3	1:V:196:GLY:H	1.70	0.57
1:V:205:GLY:HA3	1:W:206:LEU:CG	2.34	0.57
1:X:210:PRO:CD	1:B:210:PRO:HA	2.28	0.57
1:C:230:SER:HB2	1:D:227:ALA:N	2.19	0.57
1:D:194:ALA:HB3	1:H:206:LEU:CD2	2.35	0.57
1:I:235:GLY:HA2	1:1:243:PRO:HB2	1.87	0.57
1:M:263:ALA:HB3	1:M:264:PRO:CD	2.28	0.57
1:O:201:GLN:NE2	1:O:204:PRO:HG3	2.20	0.57
1:Q:192:GLN:OE1	1:Q:195:PRO:HG3	2.04	0.57
1:Y:240:PRO:HD2	1:1:242:ALA:N	2.19	0.57
1:Y:242:ALA:HB3	1:V:234:PRO:HB3	1.86	0.57
1:Z:204:PRO:CG	1:1:203:ALA:HA	2.23	0.57
1:Z:258:PRO:CB	1:4:270:PRO:HB3	2.33	0.57
1:2:203:ALA:HA	1:4:203:ALA:O	2.05	0.57
1:3:221:LEU:HG	1:4:221:LEU:HB3	1.87	0.57
1:R:176:LEU:CG	1:S:176:LEU:HD12	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:183:PRO:HB3	1:T:182:ALA:N	2.20	0.57
1:R:193:GLY:O	1:R:195:PRO:HD3	2.05	0.57
1:T:223:GLY:O	1:T:225:PRO:HD3	2.05	0.57
1:A:216:GLN:HB3	1:B:217:GLY:HA2	1.86	0.57
1:C:210:PRO:CB	1:D:209:ALA:HA	2.34	0.57
1:F:207:GLN:CB	1:H:207:GLN:HB2	2.34	0.57
1:L:247:GLY:N	1:M:245:SER:O	2.31	0.57
1:L:253:GLY:O	1:M:251:LEU:HB2	2.05	0.57
1:M:245:SER:CA	1:N:248:ALA:HA	2.24	0.57
1:M:250:GLY:HA2	1:N:251:LEU:H	1.70	0.57
1:O:200:SER:HB3	1:Q:199:GLY:CA	2.35	0.57
1:P:168:PRO:CD	1:Q:168:PRO:HA	2.21	0.57
1:Y:237:GLN:HB2	1:1:239:ALA:HB1	1.87	0.57
1:2:271:GLY:N	1:3:271:GLY:HA3	2.19	0.57
1:R:215:SER:HA	1:U:230:SER:O	2.04	0.57
1:R:233:ALA:HB2	1:U:251:LEU:CD1	2.34	0.57
1:U:252:GLN:O	1:V:252:GLN:N	2.37	0.57
1:X:158:ALA:O	1:J:192:GLN:NE2	2.38	0.56
1:B:219:PRO:HG3	1:K:250:GLY:CA	2.29	0.56
1:C:218:ALA:N	1:D:213:PRO:O	2.34	0.56
1:C:234:PRO:HG2	1:E:234:PRO:HB3	1.87	0.56
1:D:174:PRO:CB	1:H:185:SER:HB2	2.34	0.56
1:D:195:PRO:HA	1:H:206:LEU:CD1	2.35	0.56
1:G:184:GLY:N	1:H:183:PRO:HB2	2.20	0.56
1:L:227:ALA:HB3	1:M:224:ALA:O	2.04	0.56
1:L:246:GLN:NE2	1:M:245:SER:HB3	2.20	0.56
1:L:255:PRO:HB3	1:N:255:PRO:HB2	1.86	0.56
1:M:244:GLY:HA3	1:N:246:GLN:N	2.19	0.56
1:O:168:PRO:O	1:P:168:PRO:HD2	2.05	0.56
1:Y:196:GLY:O	1:1:198:PRO:HD2	2.05	0.56
1:Y:235:GLY:CA	1:1:237:GLN:HB2	2.35	0.56
1:2:264:PRO:CD	1:4:264:PRO:HA	2.34	0.56
1:R:186:GLN:HB3	1:T:186:GLN:OE1	2.05	0.56
1:X:198:PRO:HA	1:B:198:PRO:O	2.05	0.56
1:D:174:PRO:CG	1:H:185:SER:HB2	2.36	0.56
1:D:179:ALA:HA	1:J:195:PRO:HB3	1.86	0.56
1:E:193:GLY:O	1:E:194:ALA:HB2	2.03	0.56
1:F:198:PRO:HG3	1:G:197:ALA:HA	1.86	0.56
1:G:214:GLY:HA2	1:H:216:GLN:O	2.05	0.56
1:J:242:ALA:HB1	1:Z:249:PRO:CG	2.35	0.56
1:K:235:GLY:O	1:K:237:GLN:NE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:264:PRO:HD2	1:M:261:GLN:HB3	1.86	0.56
1:N:236:LEU:O	1:N:237:GLN:HB3	2.04	0.56
1:P:220:GLY:N	1:Q:221:LEU:HA	2.20	0.56
1:P:227:ALA:HB3	1:T:245:SER:O	2.05	0.56
1:Y:196:GLY:C	1:I:197:ALA:HA	2.30	0.56
1:Y:206:LEU:HA	1:I:206:LEU:O	2.05	0.56
1:Y:228:PRO:CB	1:V:221:LEU:HD13	2.34	0.56
1:Y:257:ALA:CB	1:I:257:ALA:HB1	2.17	0.56
1:U:185:SER:N	1:V:184:GLY:HA3	2.20	0.56
1:U:192:GLN:HA	1:W:193:GLY:HA3	1.87	0.56
1:U:248:ALA:HA	1:W:248:ALA:N	2.21	0.56
1:V:239:ALA:N	1:V:240:PRO:HD2	2.19	0.56
1:X:163:GLY:O	1:X:166:GLY:N	2.35	0.56
1:X:200:SER:HA	1:B:199:GLY:HA2	1.86	0.56
1:A:176:LEU:CD1	1:J:206:LEU:HD21	2.35	0.56
1:B:225:PRO:HA	1:4:274:GLY:H	1.71	0.56
1:D:195:PRO:CD	1:H:206:LEU:HD22	2.30	0.56
1:D:230:SER:O	1:E:234:PRO:HD3	2.06	0.56
1:E:203:ALA:HB3	1:K:221:LEU:O	2.05	0.56
1:F:196:GLY:O	1:G:198:PRO:HD2	2.04	0.56
1:F:217:GLY:CA	1:G:214:GLY:HA3	2.35	0.56
1:F:249:PRO:O	1:F:251:LEU:HD12	2.06	0.56
1:I:216:GLN:HG3	1:K:220:GLY:CA	2.34	0.56
1:I:235:GLY:HA2	1:I:243:PRO:HB3	1.87	0.56
1:I:237:GLN:HB2	1:J:239:ALA:O	2.05	0.56
1:J:218:ALA:CA	1:K:218:ALA:HB1	2.35	0.56
1:L:217:GLY:CA	1:N:216:GLN:HB2	2.17	0.56
1:L:236:LEU:C	1:M:235:GLY:HA2	2.30	0.56
1:O:207:GLN:NE2	1:P:206:LEU:O	2.39	0.56
1:P:167:ALA:HB2	1:Q:166:GLY:O	2.05	0.56
1:Y:218:ALA:N	1:Z:219:PRO:HB2	2.20	0.56
1:Z:211:GLY:O	1:Z:213:PRO:HD3	2.05	0.56
1:Z:243:PRO:CG	1:2:251:LEU:HD13	2.35	0.56
1:2:234:PRO:O	1:4:236:LEU:HD12	2.05	0.56
1:2:252:GLN:CG	1:3:257:ALA:HB2	2.35	0.56
1:2:270:PRO:HD2	1:3:273:PRO:HA	1.87	0.56
1:3:223:GLY:CA	1:4:225:PRO:HD2	2.34	0.56
1:4:210:PRO:HD3	1:V:191:LEU:HD22	1.87	0.56
1:R:221:LEU:O	1:S:225:PRO:HD3	2.04	0.56
1:R:230:SER:HB3	1:T:234:PRO:HG2	1.87	0.56
1:U:183:PRO:O	1:V:184:GLY:HA2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:186:GLN:HG2	1:V:188:ALA:N	2.19	0.56
1:U:218:ALA:O	1:V:216:GLN:NE2	2.38	0.56
1:U:231:GLN:HB2	1:V:228:PRO:HB3	1.87	0.56
1:X:183:PRO:CD	1:A:183:PRO:HB3	2.36	0.56
1:A:158:ALA:HB1	1:B:162:GLN:HB3	1.87	0.56
1:A:182:ALA:HB3	1:B:182:ALA:HA	1.86	0.56
1:J:220:GLY:O	1:K:221:LEU:HD23	2.05	0.56
1:L:240:PRO:HD2	1:M:238:GLY:HA3	1.87	0.56
1:L:260:SER:N	1:M:257:ALA:O	2.38	0.56
1:Z:244:GLY:HA2	1:4:258:PRO:CD	2.35	0.56
1:3:219:PRO:CD	1:4:218:ALA:HB1	2.36	0.56
1:S:215:SER:HB3	1:W:225:PRO:CG	2.36	0.56
1:T:206:LEU:HD22	1:W:218:ALA:HB1	1.87	0.56
1:U:192:GLN:OE1	1:W:195:PRO:HG2	2.05	0.56
1:A:159:PRO:O	1:3:210:PRO:HB3	2.04	0.56
1:B:215:SER:C	1:K:245:SER:HG	2.05	0.56
1:C:235:GLY:C	1:D:233:ALA:HB3	2.30	0.56
1:D:235:GLY:HA3	1:E:236:LEU:O	2.06	0.56
1:I:213:PRO:HA	1:K:213:PRO:HG2	1.86	0.56
1:M:204:PRO:HG2	1:N:204:PRO:HG3	1.87	0.56
1:M:249:PRO:HB2	1:N:250:GLY:CA	2.36	0.56
1:O:171:GLN:O	1:O:174:PRO:HD3	2.05	0.56
1:Z:191:LEU:HA	1:1:191:LEU:H	1.70	0.56
1:2:254:ALA:N	1:3:255:PRO:O	2.39	0.56
1:S:186:GLN:HG2	1:T:183:PRO:CB	2.34	0.56
1:S:191:LEU:HA	1:T:190:GLY:H	1.69	0.56
1:U:232:GLY:O	1:U:233:ALA:HB2	2.06	0.56
1:X:174:PRO:HG2	1:B:176:LEU:O	2.06	0.56
1:A:185:SER:OG	1:B:188:ALA:HA	2.04	0.56
1:B:223:GLY:N	1:4:273:PRO:HG3	2.21	0.56
1:D:194:ALA:N	1:D:195:PRO:HD2	2.20	0.56
1:E:172:GLY:C	1:E:174:PRO:HD3	2.29	0.56
1:F:186:GLN:CD	1:G:188:ALA:HB3	2.31	0.56
1:F:210:PRO:HD3	1:H:209:ALA:N	2.18	0.56
1:H:226:GLY:C	1:H:228:PRO:HD3	2.30	0.56
1:I:191:LEU:CA	1:K:191:LEU:HD22	2.33	0.56
1:J:206:LEU:O	1:J:206:LEU:HG	2.05	0.56
1:J:249:PRO:HG3	1:1:252:GLN:OE1	2.06	0.56
1:M:248:ALA:CB	1:M:249:PRO:HD3	2.29	0.56
1:P:224:ALA:HB3	1:Q:225:PRO:C	2.30	0.56
1:3:261:GLN:N	1:3:261:GLN:OE1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:203:ALA:HB2	1:U:216:GLN:OE1	2.06	0.56
1:S:231:GLN:OE1	1:U:244:GLY:HA2	2.05	0.56
1:T:234:PRO:HB3	1:T:237:GLN:CB	2.33	0.56
1:V:217:GLY:N	1:W:216:GLN:O	2.38	0.56
1:A:208:GLY:HA2	1:K:236:LEU:CD2	2.34	0.56
1:C:222:GLN:N	1:E:221:LEU:HB2	2.11	0.56
1:C:227:ALA:HA	1:D:222:GLN:NE2	2.20	0.56
1:F:185:SER:CB	1:G:186:GLN:HA	2.35	0.56
1:I:190:GLY:HA3	1:K:191:LEU:HD13	1.86	0.56
1:I:219:PRO:HB3	1:J:220:GLY:HA3	1.87	0.56
1:I:248:ALA:HA	1:I:252:GLN:HE21	1.71	0.56
1:J:246:GLN:HA	1:K:245:SER:O	2.05	0.56
1:L:268:GLY:H	1:M:267:GLN:HB2	1.70	0.56
1:M:205:GLY:HA3	1:N:205:GLY:O	2.06	0.56
1:Y:201:GLN:CG	1:1:200:SER:HB3	2.35	0.56
1:2:215:SER:H	1:3:217:GLY:HA2	1.70	0.56
1:4:264:PRO:C	1:4:266:LEU:HD12	2.31	0.56
1:S:195:PRO:HD2	1:T:195:PRO:CG	2.35	0.56
1:U:196:GLY:N	1:V:195:PRO:HA	2.20	0.56
1:U:198:PRO:CG	1:V:198:PRO:HG3	2.33	0.56
1:U:204:PRO:HD2	1:V:206:LEU:CD2	2.36	0.56
1:U:207:GLN:HB3	1:W:207:GLN:HG3	1.87	0.56
1:U:245:SER:HB2	1:W:246:GLN:CG	2.35	0.56
1:A:198:PRO:HD2	1:K:228:PRO:CA	2.35	0.56
1:C:202:GLY:O	1:C:204:PRO:HD3	2.06	0.56
1:D:168:PRO:HA	1:E:171:GLN:O	2.06	0.56
1:I:246:GLN:NE2	1:K:243:PRO:HG2	2.20	0.56
1:M:204:PRO:CD	1:N:204:PRO:HB3	2.35	0.56
1:N:204:PRO:HB2	1:N:206:LEU:HD13	1.87	0.56
1:O:173:ALA:CB	1:P:174:PRO:HA	2.31	0.56
1:O:182:ALA:HB1	1:P:185:SER:OG	2.06	0.56
1:O:210:PRO:CD	1:Q:206:LEU:HD23	2.36	0.56
1:P:204:PRO:HB3	1:T:218:ALA:HB2	1.87	0.56
1:Y:192:GLN:NE2	1:1:193:GLY:O	2.38	0.56
1:3:208:GLY:C	1:4:210:PRO:HB3	2.31	0.56
1:R:229:GLY:C	1:T:231:GLN:HB3	2.30	0.56
1:S:202:GLY:O	1:T:201:GLN:HG2	2.06	0.56
1:S:231:GLN:NE2	1:V:246:GLN:HA	2.21	0.56
1:X:165:PRO:HD3	1:B:164:ALA:O	2.05	0.56
1:X:186:GLN:N	1:A:186:GLN:HA	2.21	0.56
1:X:192:GLN:O	1:A:192:GLN:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:LEU:CD1	1:1:257:ALA:HB2	2.36	0.56
1:C:177:GLN:O	1:E:180:PRO:HD2	2.05	0.56
1:C:204:PRO:HD2	1:D:204:PRO:HD2	1.86	0.56
1:F:221:LEU:HD23	1:H:220:GLY:C	2.31	0.56
1:Y:232:GLY:HA3	1:Z:234:PRO:CD	2.35	0.56
1:Y:251:LEU:HD23	1:U:249:PRO:HG3	1.87	0.56
1:3:251:LEU:HD13	1:3:255:PRO:CG	2.36	0.56
1:R:181:GLY:C	1:S:182:ALA:HA	2.30	0.56
1:R:219:PRO:HG3	1:T:222:GLN:HB2	1.87	0.56
1:S:181:GLY:H	1:T:180:PRO:HB3	1.70	0.56
1:U:194:ALA:H	1:W:196:GLY:HA3	1.69	0.56
1:U:196:GLY:HA3	1:W:198:PRO:CD	2.26	0.56
1:X:155:SER:HB2	1:A:153:PRO:N	2.22	0.56
1:B:162:GLN:HG2	1:B:162:GLN:O	2.05	0.56
1:E:209:ALA:HB1	1:K:227:ALA:H	1.70	0.56
1:E:240:PRO:HD3	1:J:259:GLY:N	2.20	0.56
1:I:240:PRO:HB3	1:J:241:GLY:CA	2.36	0.56
1:I:249:PRO:HG2	1:K:248:ALA:C	2.31	0.56
1:J:203:ALA:HA	1:K:202:GLY:N	2.21	0.56
1:L:236:LEU:CA	1:M:235:GLY:HA2	2.36	0.56
1:L:255:PRO:HB2	1:M:255:PRO:HB3	1.88	0.56
1:M:260:SER:HA	1:N:263:ALA:HA	1.87	0.56
1:P:223:GLY:N	1:Q:224:ALA:HB1	2.21	0.56
1:V:232:GLY:H	1:W:233:ALA:HB2	1.71	0.56
1:X:184:GLY:HA3	1:B:186:GLN:H	1.71	0.55
1:X:196:GLY:O	1:B:200:SER:HB2	2.05	0.55
1:X:219:PRO:HD3	1:A:214:GLY:CA	2.34	0.55
1:C:233:ALA:HB2	1:D:231:GLN:HB3	1.86	0.55
1:D:182:ALA:HB1	1:J:201:GLN:NE2	2.21	0.55
1:D:217:GLY:N	1:E:218:ALA:HB3	2.21	0.55
1:E:191:LEU:HD21	1:J:206:LEU:C	2.31	0.55
1:G:199:GLY:H	1:H:200:SER:HA	1.71	0.55
1:L:243:PRO:HA	1:M:239:ALA:CA	2.35	0.55
1:M:230:SER:O	1:N:232:GLY:N	2.39	0.55
1:N:266:LEU:CD1	1:N:267:GLN:HG2	2.36	0.55
1:O:193:GLY:O	1:S:206:LEU:HD22	2.07	0.55
1:3:264:PRO:HG2	1:4:264:PRO:HG3	1.88	0.55
1:R:206:LEU:HD13	1:T:206:LEU:CB	2.36	0.55
1:S:198:PRO:HA	1:T:198:PRO:CG	2.36	0.55
1:S:216:GLN:O	1:T:219:PRO:HD3	2.06	0.55
1:T:184:GLY:O	1:T:185:SER:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:161:LEU:HA	1:J:194:ALA:CB	2.36	0.55
1:X:173:ALA:CB	1:B:174:PRO:HB2	2.32	0.55
1:X:176:LEU:HA	1:B:178:GLY:N	2.20	0.55
1:X:179:ALA:HA	1:A:177:GLN:NE2	2.21	0.55
1:X:193:GLY:C	1:B:193:GLY:HA2	2.31	0.55
1:A:161:LEU:HG	1:B:162:GLN:HA	1.87	0.55
1:A:224:ALA:CB	1:4:276:GLN:HA	2.36	0.55
1:D:195:PRO:HA	1:H:206:LEU:HD13	1.87	0.55
1:E:168:PRO:HG2	1:K:185:SER:CA	2.35	0.55
1:E:177:GLN:HG2	1:E:178:GLY:H	1.71	0.55
1:F:179:ALA:N	1:F:180:PRO:HD3	2.21	0.55
1:F:195:PRO:HB2	1:G:196:GLY:HA2	1.85	0.55
1:I:197:ALA:HB1	1:J:201:GLN:HE22	1.70	0.55
1:I:215:SER:OG	1:K:219:PRO:HG2	2.07	0.55
1:J:245:SER:CB	1:J:248:ALA:HA	2.36	0.55
1:J:255:PRO:HG2	1:L:263:ALA:N	2.20	0.55
1:L:204:PRO:HA	1:M:205:GLY:N	2.21	0.55
1:L:255:PRO:C	1:M:255:PRO:HA	2.31	0.55
1:M:209:ALA:H	1:N:212:ALA:HA	1.71	0.55
1:M:263:ALA:CB	1:M:264:PRO:HD3	2.30	0.55
1:O:213:PRO:HA	1:Q:213:PRO:O	2.07	0.55
1:Y:249:PRO:HD2	1:Z:251:LEU:CD2	2.36	0.55
1:2:212:ALA:CB	1:3:213:PRO:HB2	2.36	0.55
1:2:214:GLY:HA2	1:3:216:GLN:O	2.06	0.55
1:2:269:ALA:HB1	1:3:272:ALA:N	2.21	0.55
1:R:189:PRO:HA	1:T:189:PRO:O	2.06	0.55
1:R:225:PRO:HD2	1:S:227:ALA:H	1.72	0.55
1:S:222:GLN:O	1:T:224:ALA:HB1	2.05	0.55
1:U:195:PRO:HA	1:V:194:ALA:O	2.07	0.55
1:U:229:GLY:CA	1:W:225:PRO:HD2	2.36	0.55
1:X:212:ALA:HB3	1:B:213:PRO:CG	2.31	0.55
1:A:220:GLY:N	1:B:221:LEU:O	2.39	0.55
1:B:179:ALA:CA	1:2:221:LEU:HD11	2.37	0.55
1:C:191:LEU:HD21	1:J:208:GLY:N	2.22	0.55
1:C:201:GLN:O	1:E:201:GLN:NE2	2.39	0.55
1:C:222:GLN:NE2	1:E:218:ALA:HB3	2.21	0.55
1:E:189:PRO:HB2	1:J:205:GLY:H	1.71	0.55
1:F:185:SER:HB3	1:G:187:GLY:N	2.21	0.55
1:F:230:SER:HA	1:G:227:ALA:O	2.06	0.55
1:G:195:PRO:CB	1:H:198:PRO:HG3	2.34	0.55
1:I:231:GLN:CD	1:1:239:ALA:HB2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:233:ALA:HB3	1:K:235:GLY:C	2.31	0.55
1:J:214:GLY:O	1:K:216:GLN:HA	2.06	0.55
1:L:256:GLY:N	1:M:255:PRO:HA	2.21	0.55
1:P:189:PRO:CB	1:P:191:LEU:HD23	2.36	0.55
1:Z:200:SER:N	1:1:198:PRO:HB2	2.21	0.55
1:Z:216:GLN:HB2	1:1:218:ALA:H	1.71	0.55
1:2:204:PRO:O	1:3:206:LEU:HG	2.06	0.55
1:2:235:GLY:HA3	1:3:237:GLN:HA	1.87	0.55
1:R:178:GLY:C	1:S:179:ALA:HA	2.32	0.55
1:R:233:ALA:HB3	1:S:237:GLN:HA	1.87	0.55
1:U:247:GLY:HA3	1:V:249:PRO:HG2	1.87	0.55
1:U:253:GLY:O	1:U:255:PRO:HD3	2.06	0.55
1:W:194:ALA:N	1:W:195:PRO:HD3	2.22	0.55
1:X:176:LEU:HD12	1:X:177:GLN:N	2.20	0.55
1:A:203:ALA:HB3	1:A:204:PRO:HD2	1.89	0.55
1:C:182:ALA:CA	1:H:194:ALA:HB3	2.37	0.55
1:C:191:LEU:N	1:E:190:GLY:O	2.39	0.55
1:C:217:GLY:H	1:D:213:PRO:HG2	1.71	0.55
1:C:222:GLN:HG3	1:D:216:GLN:OE1	2.07	0.55
1:C:226:GLY:CA	1:E:224:ALA:HB3	2.35	0.55
1:J:201:GLN:OE1	1:K:200:SER:OG	2.10	0.55
1:J:251:LEU:HB3	1:L:261:GLN:CB	2.37	0.55
1:O:204:PRO:HG2	1:Q:204:PRO:CD	2.37	0.55
1:Y:209:ALA:HA	1:1:210:PRO:HB3	1.89	0.55
1:R:192:GLN:HG3	1:R:195:PRO:HG3	1.88	0.55
1:R:228:PRO:HD3	1:T:228:PRO:HB2	1.88	0.55
1:S:178:GLY:O	1:T:176:LEU:HA	2.07	0.55
1:A:198:PRO:HG2	1:K:229:GLY:H	1.71	0.55
1:C:180:PRO:CA	1:E:183:PRO:HD3	2.37	0.55
1:D:222:GLN:NE2	1:F:236:LEU:HD23	2.21	0.55
1:F:228:PRO:HD2	1:G:225:PRO:HA	1.89	0.55
1:I:204:PRO:HD2	1:K:204:PRO:CB	2.35	0.55
1:I:207:GLN:O	1:K:206:LEU:HD13	2.05	0.55
1:J:242:ALA:HA	1:1:246:GLN:OE1	2.06	0.55
1:M:231:GLN:HB2	1:N:230:SER:C	2.32	0.55
1:M:262:GLY:O	1:M:263:ALA:HB3	2.07	0.55
1:O:222:GLN:HB2	1:P:226:GLY:CA	2.37	0.55
1:Y:193:GLY:O	1:1:194:ALA:HA	2.06	0.55
1:Y:211:GLY:O	1:Y:212:ALA:HB3	2.05	0.55
1:Y:228:PRO:CD	1:4:240:PRO:HB3	2.36	0.55
1:Y:231:GLN:N	1:1:233:ALA:HA	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:255:PRO:HD2	1:Z:258:PRO:CD	2.35	0.55
1:Z:212:ALA:HB2	1:1:210:PRO:CG	2.37	0.55
1:Z:257:ALA:HB1	1:W:251:LEU:HD12	1.88	0.55
1:2:223:GLY:HA3	1:3:225:PRO:N	2.20	0.55
1:3:203:ALA:HA	1:4:203:ALA:C	2.31	0.55
1:R:214:GLY:N	1:T:214:GLY:O	2.32	0.55
1:S:177:GLN:HG2	1:T:177:GLN:OE1	2.06	0.55
1:U:201:GLN:OE1	1:V:203:ALA:HA	2.05	0.55
1:B:199:GLY:HA2	1:B:201:GLN:OE1	2.06	0.55
1:C:176:LEU:HD23	1:C:176:LEU:H	1.72	0.55
1:C:200:SER:CB	1:E:200:SER:HB2	2.36	0.55
1:D:223:GLY:HA2	1:K:241:GLY:N	2.22	0.55
1:G:187:GLY:O	1:G:189:PRO:HD3	2.06	0.55
1:H:239:ALA:N	1:H:240:PRO:HD3	2.21	0.55
1:I:246:GLN:HG2	1:K:245:SER:CB	2.33	0.55
1:K:215:SER:O	1:K:216:GLN:HB2	2.06	0.55
1:L:197:ALA:HB1	1:M:199:GLY:HA3	1.89	0.55
1:L:249:PRO:CD	1:N:249:PRO:HB2	2.37	0.55
1:M:242:ALA:HB1	1:M:243:PRO:HD2	1.89	0.55
1:O:165:PRO:HG2	1:P:167:ALA:H	1.71	0.55
1:O:176:LEU:HD21	1:P:178:GLY:CA	2.37	0.55
1:O:182:ALA:HB2	1:P:182:ALA:CB	2.36	0.55
1:O:190:GLY:HA3	1:P:192:GLN:N	2.20	0.55
1:P:213:PRO:CD	1:Q:212:ALA:HB2	2.37	0.55
1:Y:220:GLY:N	1:1:223:GLY:O	2.39	0.55
1:Y:234:PRO:HG2	1:1:236:LEU:HD11	1.87	0.55
1:2:234:PRO:HA	1:3:235:GLY:C	2.31	0.55
1:2:271:GLY:CA	1:3:271:GLY:HA3	2.36	0.55
1:R:213:PRO:HB3	1:T:213:PRO:CG	2.31	0.55
1:R:221:LEU:N	1:R:221:LEU:HD23	2.22	0.55
1:R:239:ALA:HA	1:S:246:GLN:HE22	1.71	0.55
1:S:233:ALA:CB	1:V:249:PRO:HG2	2.36	0.55
1:X:159:PRO:HG3	1:J:189:PRO:HG3	1.89	0.55
1:D:184:GLY:O	1:E:185:SER:OG	2.24	0.55
1:D:229:GLY:HA3	1:E:231:GLN:HG2	1.87	0.55
1:L:219:PRO:HD2	1:N:218:ALA:CA	2.37	0.55
1:P:174:PRO:HD2	1:Q:171:GLN:CG	2.35	0.55
1:Q:177:GLN:HG3	1:Q:177:GLN:O	2.06	0.55
1:Y:233:ALA:CB	1:1:236:LEU:HA	2.36	0.55
1:Y:243:PRO:HB3	1:Z:243:PRO:O	2.06	0.55
1:Z:259:GLY:HA2	1:S:240:PRO:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:275:SER:O	1:4:276:GLN:HG3	2.06	0.55
1:R:191:LEU:HD12	1:R:192:GLN:H	1.70	0.55
1:S:238:GLY:HA2	1:W:252:GLN:HG2	1.89	0.55
1:U:203:ALA:HB1	1:W:205:GLY:CA	2.36	0.55
1:U:245:SER:HB2	1:W:246:GLN:HG3	1.87	0.55
1:X:184:GLY:HA3	1:B:186:GLN:N	2.21	0.55
1:A:162:GLN:OE1	1:B:165:PRO:HD3	2.06	0.55
1:A:167:ALA:HB3	1:K:198:PRO:CB	2.36	0.55
1:C:210:PRO:CG	1:D:209:ALA:HA	2.37	0.55
1:D:183:PRO:O	1:J:201:GLN:HG3	2.07	0.55
1:D:206:LEU:HG	1:H:219:PRO:CG	2.15	0.55
1:D:214:GLY:CA	1:E:216:GLN:HG2	2.36	0.55
1:L:204:PRO:HG3	1:N:207:GLN:OE1	2.07	0.55
1:O:192:GLN:HB2	1:P:194:ALA:H	1.72	0.55
1:Y:229:GLY:O	1:1:231:GLN:HB2	2.06	0.55
1:1:205:GLY:O	1:1:207:GLN:NE2	2.39	0.55
1:2:231:GLN:N	1:4:232:GLY:O	2.35	0.55
1:2:250:GLY:CA	1:4:250:GLY:HA3	2.31	0.55
1:3:257:ALA:O	1:4:256:GLY:HA3	2.06	0.55
1:S:221:LEU:CB	1:T:221:LEU:HD13	2.29	0.55
1:T:204:PRO:HG2	1:T:207:GLN:OE1	2.07	0.55
1:V:195:PRO:HB3	1:W:198:PRO:N	2.22	0.55
1:V:237:GLN:HA	1:V:237:GLN:OE1	2.06	0.55
1:X:162:GLN:CD	1:J:194:ALA:HB3	2.32	0.55
1:A:221:LEU:HD11	1:K:252:GLN:CB	2.37	0.55
1:C:183:PRO:HD2	1:H:194:ALA:CB	2.34	0.55
1:C:198:PRO:HG3	1:E:198:PRO:C	2.32	0.55
1:C:219:PRO:HD2	1:E:217:GLY:O	2.05	0.55
1:C:219:PRO:HD3	1:D:214:GLY:HA3	1.89	0.55
1:C:233:ALA:HB1	1:D:231:GLN:O	2.07	0.55
1:D:232:GLY:HA3	1:E:234:PRO:CB	2.36	0.55
1:F:216:GLN:H	1:G:212:ALA:HB1	1.71	0.55
1:L:254:ALA:HA	1:M:252:GLN:HG2	1.89	0.55
1:M:202:GLY:O	1:M:204:PRO:HD3	2.07	0.55
1:O:185:SER:HB2	1:P:186:GLN:CD	2.32	0.55
1:Y:210:PRO:HB2	1:1:212:ALA:CA	2.36	0.55
1:Y:234:PRO:HG2	1:1:236:LEU:CD1	2.36	0.55
1:Y:256:GLY:HA2	1:Z:259:GLY:O	2.07	0.55
1:1:215:SER:HB3	1:1:219:PRO:CG	2.36	0.55
1:2:213:PRO:HD2	1:3:215:SER:OG	2.07	0.55
1:3:236:LEU:CD1	1:4:237:GLN:HB3	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:185:SER:O	1:T:185:SER:OG	2.21	0.55
1:R:200:SER:HB2	1:U:209:ALA:CA	2.30	0.55
1:U:187:GLY:HA3	1:W:186:GLN:HB2	1.88	0.55
1:U:221:LEU:HD22	1:U:224:ALA:CB	2.37	0.55
1:A:199:GLY:HA2	1:J:227:ALA:CB	2.36	0.55
1:G:204:PRO:HG3	1:H:203:ALA:HA	1.88	0.55
1:I:189:PRO:CG	1:N:199:GLY:HA3	2.37	0.55
1:I:233:ALA:O	1:K:236:LEU:HA	2.07	0.55
1:J:242:ALA:HB1	1:Z:247:GLY:CA	2.37	0.55
1:L:203:ALA:O	1:M:203:ALA:HA	2.07	0.55
1:L:212:ALA:HA	1:N:213:PRO:CG	2.36	0.55
1:Q:220:GLY:O	1:Q:221:LEU:HB2	2.07	0.55
1:Y:236:LEU:CD1	1:Y:237:GLN:HG3	2.37	0.55
1:Z:219:PRO:CA	1:I:221:LEU:HA	2.37	0.55
1:3:208:GLY:HA2	1:V:191:LEU:HD21	1.88	0.55
1:3:223:GLY:HA2	1:4:224:ALA:HB1	1.88	0.55
1:R:206:LEU:O	1:R:207:GLN:HB3	2.06	0.55
1:V:205:GLY:HA3	1:W:206:LEU:CB	2.37	0.55
1:V:236:LEU:HA	1:W:238:GLY:CA	2.37	0.55
1:X:176:LEU:HD11	1:X:179:ALA:HB2	1.88	0.54
1:A:219:PRO:HG2	1:I:253:GLY:CA	2.14	0.54
1:C:179:ALA:HB1	1:D:181:GLY:N	2.22	0.54
1:C:218:ALA:HB2	1:K:232:GLY:HA3	1.89	0.54
1:D:227:ALA:HB1	1:G:237:GLN:OE1	2.07	0.54
1:D:228:PRO:HD2	1:G:237:GLN:HB2	1.88	0.54
1:I:217:GLY:HA3	1:J:218:ALA:CA	2.36	0.54
1:I:252:GLN:HG2	1:K:249:PRO:CB	2.37	0.54
1:J:252:GLN:CB	1:I:256:GLY:HA2	2.37	0.54
1:L:227:ALA:O	1:N:226:GLY:N	2.39	0.54
1:L:234:PRO:O	1:M:231:GLN:O	2.25	0.54
1:L:252:GLN:N	1:M:251:LEU:O	2.40	0.54
1:Y:208:GLY:N	1:I:206:LEU:HD22	2.22	0.54
1:Y:231:GLN:CB	1:I:233:ALA:HA	2.36	0.54
1:Z:248:ALA:HB1	1:Z:251:LEU:CD2	2.25	0.54
1:Z:251:LEU:HA	1:I:250:GLY:HA3	1.87	0.54
1:2:240:PRO:HD2	1:4:243:PRO:O	2.07	0.54
1:2:273:PRO:HB3	1:4:271:GLY:O	2.06	0.54
1:3:254:ALA:HB3	1:4:253:GLY:CA	2.38	0.54
1:R:175:GLY:CA	1:T:174:PRO:HD2	2.37	0.54
1:R:185:SER:N	1:S:184:GLY:O	2.40	0.54
1:S:233:ALA:HB1	1:V:249:PRO:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:236:LEU:CG	1:T:240:PRO:HG2	2.38	0.54
1:U:192:GLN:HA	1:W:193:GLY:CA	2.37	0.54
1:V:221:LEU:HB3	1:W:221:LEU:HG	1.88	0.54
1:B:169:GLY:HA3	1:4:217:GLY:HA3	1.89	0.54
1:C:208:GLY:N	1:E:205:GLY:O	2.37	0.54
1:D:195:PRO:HD3	1:H:206:LEU:CD2	2.33	0.54
1:D:198:PRO:HB3	1:E:199:GLY:CA	2.37	0.54
1:E:240:PRO:HD2	1:J:258:PRO:HB2	1.88	0.54
1:F:204:PRO:HB2	1:F:207:GLN:NE2	2.22	0.54
1:F:208:GLY:HA2	1:H:206:LEU:HD12	1.90	0.54
1:F:250:GLY:HA2	1:G:249:PRO:O	2.08	0.54
1:I:196:GLY:H	1:J:198:PRO:HB2	1.71	0.54
1:J:243:PRO:HG3	1:K:244:GLY:C	2.31	0.54
1:J:258:PRO:HG3	1:L:267:GLN:CG	2.25	0.54
1:K:246:GLN:HG3	1:1:249:PRO:O	2.08	0.54
1:L:258:PRO:CG	1:N:258:PRO:HB2	2.38	0.54
1:O:228:PRO:HB3	1:Q:228:PRO:HG2	1.89	0.54
1:P:227:ALA:HB3	1:T:245:SER:CB	2.36	0.54
1:1:203:ALA:O	1:1:205:GLY:N	2.38	0.54
1:1:229:GLY:N	1:V:218:ALA:HB2	2.23	0.54
1:3:222:GLN:O	1:4:224:ALA:HB1	2.07	0.54
1:R:191:LEU:C	1:T:191:LEU:HB2	2.32	0.54
1:S:191:LEU:HA	1:T:190:GLY:CA	2.37	0.54
1:S:240:PRO:CB	1:W:253:GLY:HA3	2.38	0.54
1:U:207:GLN:HE22	1:W:205:GLY:HA2	1.70	0.54
1:U:227:ALA:HB1	1:U:228:PRO:HD2	1.89	0.54
1:U:234:PRO:HB2	1:U:237:GLN:OE1	2.08	0.54
1:X:203:ALA:C	1:A:204:PRO:HD2	2.31	0.54
1:A:210:PRO:CA	1:B:213:PRO:HD2	2.22	0.54
1:D:198:PRO:O	1:E:200:SER:HA	2.07	0.54
1:F:193:GLY:N	1:H:192:GLN:O	2.40	0.54
1:F:215:SER:HB2	1:G:215:SER:H	1.71	0.54
1:F:224:ALA:HB2	1:H:221:LEU:HD23	1.90	0.54
1:F:228:PRO:CD	1:G:225:PRO:HA	2.38	0.54
1:I:194:ALA:CB	1:N:206:LEU:HB3	2.29	0.54
1:I:251:LEU:HD11	1:K:253:GLY:HA3	1.88	0.54
1:J:200:SER:HB3	1:K:198:PRO:CB	2.37	0.54
1:M:220:GLY:N	1:O:183:PRO:HG2	2.22	0.54
1:Y:207:GLN:O	1:Z:210:PRO:HB3	2.07	0.54
1:R:228:PRO:HG2	1:U:243:PRO:HB3	1.89	0.54
1:U:200:SER:OG	1:V:201:GLN:OE1	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:221:LEU:O	1:U:222:GLN:HG3	2.08	0.54
1:V:191:LEU:O	1:W:191:LEU:HD22	2.07	0.54
1:X:204:PRO:CG	1:B:204:PRO:HB2	2.37	0.54
1:X:209:ALA:CB	1:B:208:GLY:HA3	2.37	0.54
1:A:176:LEU:HD21	1:J:206:LEU:HD13	1.88	0.54
1:B:221:LEU:HD12	1:4:267:GLN:CA	2.37	0.54
1:C:165:PRO:HA	1:E:167:ALA:HB3	1.89	0.54
1:F:180:PRO:CB	1:H:180:PRO:HB2	2.37	0.54
1:H:201:GLN:NE2	1:H:204:PRO:HG2	2.22	0.54
1:L:219:PRO:HG2	1:M:215:SER:O	2.07	0.54
1:M:231:GLN:HE22	1:M:233:ALA:HB2	1.70	0.54
1:O:185:SER:HB2	1:P:186:GLN:NE2	2.22	0.54
1:P:220:GLY:N	1:Q:222:GLN:OE1	2.41	0.54
1:Y:236:LEU:O	1:1:240:PRO:HD2	2.08	0.54
1:Y:248:ALA:CB	1:W:245:SER:HA	2.37	0.54
1:2:226:GLY:HA3	1:3:228:PRO:HA	1.90	0.54
1:2:252:GLN:HB2	1:4:256:GLY:CA	2.38	0.54
1:3:223:GLY:C	1:4:224:ALA:HB1	2.32	0.54
1:R:209:ALA:HB3	1:S:212:ALA:N	2.23	0.54
1:U:203:ALA:C	1:W:205:GLY:HA3	2.33	0.54
1:U:226:GLY:HA3	1:W:223:GLY:HA3	1.90	0.54
1:U:236:LEU:HG	1:V:237:GLN:CB	2.27	0.54
1:V:236:LEU:HG	1:W:239:ALA:N	2.20	0.54
1:X:184:GLY:HA3	1:B:186:GLN:HB2	1.89	0.54
1:C:174:PRO:HG2	1:D:175:GLY:O	2.08	0.54
1:F:180:PRO:HB3	1:H:180:PRO:HB2	1.89	0.54
1:G:231:GLN:HA	1:H:231:GLN:CB	2.37	0.54
1:I:192:GLN:HG2	1:N:203:ALA:CB	2.36	0.54
1:I:221:LEU:HG	1:Z:228:PRO:CD	2.38	0.54
1:J:212:ALA:N	1:J:213:PRO:HD3	2.23	0.54
1:M:236:LEU:C	1:N:239:ALA:HB3	2.33	0.54
1:O:179:ALA:HB3	1:Q:178:GLY:C	2.32	0.54
1:O:188:ALA:HB3	1:P:189:PRO:CA	2.32	0.54
1:O:214:GLY:CA	1:P:217:GLY:HA3	2.37	0.54
1:Y:192:GLN:HG2	1:1:192:GLN:O	2.08	0.54
1:Y:246:GLN:CG	1:4:259:GLY:HA3	2.31	0.54
1:Z:230:SER:N	1:1:233:ALA:HB2	2.23	0.54
1:2:261:GLN:OE1	1:4:261:GLN:NE2	2.40	0.54
1:U:186:GLN:HG2	1:V:188:ALA:H	1.72	0.54
1:U:203:ALA:HA	1:V:203:ALA:HB1	1.90	0.54
1:V:196:GLY:C	1:V:198:PRO:HD3	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:172:GLY:HA3	1:A:171:GLN:CB	2.26	0.54
1:A:190:GLY:CA	1:B:191:LEU:HD13	2.35	0.54
1:D:234:PRO:HB2	1:E:238:GLY:HA2	1.89	0.54
1:F:183:PRO:CB	1:H:186:GLN:HG2	2.37	0.54
1:F:201:GLN:HB2	1:G:202:GLY:HA3	1.89	0.54
1:G:184:GLY:CA	1:H:183:PRO:HB2	2.38	0.54
1:I:208:GLY:HA3	1:J:212:ALA:CB	2.36	0.54
1:J:216:GLN:HE21	1:Y:220:GLY:HA3	1.73	0.54
1:J:246:GLN:NE2	1:K:248:ALA:HB2	2.22	0.54
1:L:206:LEU:H	1:M:206:LEU:HA	1.73	0.54
1:O:222:GLN:HB2	1:P:224:ALA:O	2.07	0.54
1:Y:225:PRO:HD2	1:Z:228:PRO:HG3	1.88	0.54
1:Y:251:LEU:HA	1:I:251:LEU:CB	2.30	0.54
1:3:218:ALA:HA	1:4:219:PRO:N	2.22	0.54
1:4:242:ALA:HB1	1:4:243:PRO:CD	2.37	0.54
1:R:204:PRO:HG2	1:T:204:PRO:CB	2.36	0.54
1:R:210:PRO:HB3	1:U:224:ALA:H	1.73	0.54
1:S:197:ALA:N	1:T:195:PRO:HB2	2.23	0.54
1:U:183:PRO:HA	1:V:183:PRO:CG	2.38	0.54
1:U:192:GLN:HA	1:W:193:GLY:O	2.07	0.54
1:A:181:GLY:HA2	1:B:182:ALA:H	1.72	0.54
1:B:215:SER:O	1:B:216:GLN:NE2	2.40	0.54
1:D:176:LEU:HA	1:E:177:GLN:OE1	2.07	0.54
1:D:221:LEU:HD13	1:J:236:LEU:HB3	1.90	0.54
1:L:203:ALA:HB1	1:L:204:PRO:HD2	1.89	0.54
1:L:204:PRO:HB2	1:L:206:LEU:O	2.07	0.54
1:L:242:ALA:HB1	1:M:243:PRO:HD3	1.88	0.54
1:M:226:GLY:HA2	1:N:228:PRO:CA	2.38	0.54
1:Q:205:GLY:O	1:Q:207:GLN:NE2	2.41	0.54
1:Y:216:GLN:HG3	1:Z:218:ALA:N	2.23	0.54
1:Y:237:GLN:C	1:Y:240:PRO:HD3	2.32	0.54
1:Y:239:ALA:CB	1:V:234:PRO:HG3	2.38	0.54
1:Y:254:ALA:HA	1:Z:257:ALA:N	2.23	0.54
1:Z:255:PRO:O	1:2:267:GLN:HG2	2.08	0.54
1:2:256:GLY:HA3	1:3:257:ALA:O	2.07	0.54
1:3:219:PRO:HD3	1:4:218:ALA:HB1	1.89	0.54
1:R:178:GLY:HA3	1:S:179:ALA:HA	1.88	0.54
1:R:221:LEU:HA	1:T:225:PRO:HD2	1.90	0.54
1:U:214:GLY:H	1:V:213:PRO:HB3	1.73	0.54
1:U:233:ALA:N	1:U:234:PRO:HD2	2.22	0.54
1:V:218:ALA:HB1	1:W:221:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:227:ALA:N	1:W:228:PRO:HD2	2.23	0.54
1:X:180:PRO:CA	1:B:181:GLY:HA3	2.25	0.54
1:X:183:PRO:O	1:A:184:GLY:N	2.40	0.54
1:C:198:PRO:N	1:E:198:PRO:HB3	2.23	0.54
1:D:166:GLY:HA3	1:E:168:PRO:C	2.33	0.54
1:D:195:PRO:CD	1:H:206:LEU:HD13	2.38	0.54
1:F:183:PRO:O	1:H:186:GLN:HG2	2.07	0.54
1:I:208:GLY:C	1:K:210:PRO:HG3	2.33	0.54
1:J:234:PRO:HG3	1:K:234:PRO:CD	2.35	0.54
1:J:251:LEU:CA	1:K:249:PRO:HG2	2.38	0.54
1:M:219:PRO:HA	1:N:221:LEU:N	2.23	0.54
1:Q:199:GLY:O	1:Q:200:SER:OG	2.26	0.54
1:Z:197:ALA:HB1	1:1:196:GLY:O	2.07	0.54
1:2:209:ALA:O	1:3:212:ALA:HB3	2.08	0.54
1:R:191:LEU:HD23	1:W:203:ALA:CA	2.37	0.54
1:R:192:GLN:HE21	1:R:195:PRO:HG3	1.71	0.54
1:R:206:LEU:HD13	1:T:206:LEU:HB2	1.90	0.54
1:R:219:PRO:HB3	1:S:221:LEU:CB	2.34	0.54
1:R:219:PRO:HB2	1:S:221:LEU:O	2.08	0.54
1:R:220:GLY:N	1:S:222:GLN:HA	2.23	0.54
1:U:187:GLY:HA2	1:W:187:GLY:N	2.23	0.54
1:X:156:GLN:O	1:I:185:SER:N	2.41	0.54
1:A:221:LEU:HD11	1:1:257:ALA:CB	2.37	0.54
1:F:222:GLN:N	1:H:219:PRO:O	2.37	0.54
1:I:239:ALA:HB2	1:K:242:ALA:HB3	1.86	0.54
1:J:203:ALA:HB2	1:K:201:GLN:CB	2.38	0.54
1:L:249:PRO:CG	1:N:249:PRO:HB2	2.37	0.54
1:M:220:GLY:HA3	1:N:222:GLN:OE1	2.08	0.54
1:Y:250:GLY:O	1:1:251:LEU:HD22	2.08	0.54
1:3:219:PRO:HD3	1:4:218:ALA:HA	1.89	0.54
1:S:187:GLY:O	1:S:189:PRO:HD3	2.08	0.54
1:S:219:PRO:HD3	1:T:218:ALA:HB1	1.88	0.54
1:A:176:LEU:HD12	1:J:210:PRO:HD3	1.89	0.54
1:A:215:SER:O	1:I:246:GLN:HB3	2.08	0.54
1:C:189:PRO:HB2	1:E:192:GLN:CG	2.38	0.54
1:D:168:PRO:HD2	1:E:167:ALA:CB	2.38	0.54
1:D:214:GLY:CA	1:E:216:GLN:H	2.21	0.54
1:F:192:GLN:C	1:H:195:PRO:HG3	2.32	0.54
1:G:207:GLN:HA	1:H:210:PRO:HG3	1.90	0.54
1:G:246:GLN:HG3	1:H:246:GLN:CD	2.33	0.54
1:I:200:SER:C	1:L:213:PRO:HG2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:212:ALA:N	1:K:214:GLY:HA3	2.23	0.54
1:J:198:PRO:HD2	1:K:196:GLY:O	2.07	0.54
1:J:245:SER:C	1:J:246:GLN:HG3	2.33	0.54
1:L:228:PRO:O	1:N:226:GLY:HA3	2.08	0.54
1:P:174:PRO:HD2	1:Q:171:GLN:OE1	2.08	0.54
1:3:206:LEU:HD12	1:4:205:GLY:HA2	1.87	0.54
1:R:208:GLY:CA	1:T:209:ALA:HB3	2.38	0.54
1:R:239:ALA:CB	1:R:243:PRO:HB3	2.38	0.54
1:X:157:GLY:CA	1:A:155:SER:HB2	2.36	0.53
1:X:202:GLY:N	1:A:201:GLN:HA	2.23	0.53
1:X:207:GLN:OE1	1:B:206:LEU:HA	2.08	0.53
1:X:218:ALA:HA	1:A:216:GLN:OE1	2.08	0.53
1:C:227:ALA:HB3	1:E:225:PRO:C	2.33	0.53
1:G:234:PRO:HD3	1:H:233:ALA:O	2.09	0.53
1:G:240:PRO:HA	1:H:241:GLY:N	2.23	0.53
1:I:231:GLN:CB	1:Y:236:LEU:HD21	2.21	0.53
1:I:235:GLY:H	1:K:236:LEU:HD12	1.72	0.53
1:J:218:ALA:C	1:Y:221:LEU:HD11	2.34	0.53
1:J:228:PRO:HB3	1:1:236:LEU:H	1.72	0.53
1:L:219:PRO:HD2	1:N:218:ALA:CB	2.38	0.53
1:O:187:GLY:HA2	1:P:188:ALA:C	2.32	0.53
1:P:190:GLY:CA	1:Q:189:PRO:HG3	2.30	0.53
1:Y:205:GLY:O	1:1:204:PRO:HB2	2.08	0.53
1:Y:216:GLN:HG2	1:Y:216:GLN:O	2.08	0.53
1:Z:197:ALA:CB	1:1:196:GLY:HA3	2.38	0.53
1:2:234:PRO:HA	1:3:235:GLY:HA3	1.86	0.53
1:R:204:PRO:HD3	1:T:201:GLN:HG3	1.91	0.53
1:S:180:PRO:HA	1:T:176:LEU:HD23	1.85	0.53
1:U:189:PRO:HB2	1:W:192:GLN:HG3	1.90	0.53
1:U:204:PRO:HD2	1:V:206:LEU:CG	2.38	0.53
1:X:228:PRO:C	1:4:274:GLY:HA2	2.33	0.53
1:B:155:SER:N	1:2:204:PRO:HD3	2.24	0.53
1:D:207:GLN:CG	1:E:210:PRO:HD3	2.38	0.53
1:D:224:ALA:HA	1:K:242:ALA:HA	1.91	0.53
1:E:190:GLY:HA3	1:J:207:GLN:HG3	1.88	0.53
1:I:244:GLY:HA3	1:K:242:ALA:HB1	1.90	0.53
1:J:236:LEU:C	1:K:237:GLN:HB3	2.33	0.53
1:L:220:GLY:N	1:N:219:PRO:HD2	2.22	0.53
1:Y:222:GLN:HA	1:Z:223:GLY:HA3	1.90	0.53
1:3:249:PRO:CG	1:4:249:PRO:HG3	2.38	0.53
1:R:192:GLN:HG3	1:R:195:PRO:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:226:GLY:O	1:T:230:SER:CA	2.57	0.53
1:S:177:GLN:HG3	1:T:174:PRO:CD	2.38	0.53
1:S:186:GLN:NE2	1:T:183:PRO:HA	2.23	0.53
1:S:234:PRO:HD2	1:U:252:GLN:HE21	1.73	0.53
1:T:234:PRO:CB	1:T:237:GLN:HB3	2.33	0.53
1:X:210:PRO:HD3	1:A:207:GLN:HG2	1.89	0.53
1:D:203:ALA:HB3	1:F:218:ALA:O	2.09	0.53
1:I:213:PRO:HB3	1:K:213:PRO:CG	2.37	0.53
1:J:253:GLY:CA	1:K:252:GLN:HA	2.36	0.53
1:L:225:PRO:HD3	1:M:219:PRO:HB2	1.89	0.53
1:M:230:SER:O	1:M:232:GLY:N	2.39	0.53
1:P:199:GLY:H	1:Q:198:PRO:HG3	1.73	0.53
1:Y:231:GLN:HB2	1:Z:230:SER:CB	2.38	0.53
1:2:219:PRO:CB	1:4:225:PRO:HD3	2.38	0.53
1:R:207:GLN:H	1:T:206:LEU:HD23	1.73	0.53
1:R:219:PRO:CD	1:U:234:PRO:HB3	2.39	0.53
1:S:194:ALA:HB2	1:T:193:GLY:O	2.09	0.53
1:U:187:GLY:HA3	1:W:186:GLN:HG3	1.90	0.53
1:U:198:PRO:HB3	1:W:198:PRO:HG2	1.91	0.53
1:U:235:GLY:CA	1:W:233:ALA:HB3	2.38	0.53
1:X:193:GLY:HA2	1:A:193:GLY:H	1.73	0.53
1:X:201:GLN:HB3	1:B:201:GLN:C	2.34	0.53
1:X:225:PRO:CG	1:A:219:PRO:HB2	2.17	0.53
1:A:205:GLY:O	1:B:206:LEU:HD11	2.09	0.53
1:D:224:ALA:CA	1:K:243:PRO:HD3	2.34	0.53
1:G:234:PRO:HA	1:H:235:GLY:H	1.74	0.53
1:I:232:GLY:HA3	1:J:234:PRO:CA	2.38	0.53
1:I:240:PRO:HG3	1:J:243:PRO:CG	2.38	0.53
1:J:209:ALA:O	1:J:211:GLY:N	2.42	0.53
1:O:209:ALA:HA	1:P:210:PRO:CB	2.37	0.53
1:O:209:ALA:O	1:P:212:ALA:HB2	2.09	0.53
1:O:230:SER:HA	1:Q:231:GLN:O	2.08	0.53
1:Y:224:ALA:HB3	1:Z:226:GLY:O	2.08	0.53
1:Y:239:ALA:HB2	1:V:234:PRO:CG	2.38	0.53
1:Z:236:LEU:C	1:Z:239:ALA:HB2	2.33	0.53
1:R:186:GLN:CA	1:T:185:SER:HA	2.25	0.53
1:R:222:GLN:N	1:T:225:PRO:O	2.41	0.53
1:V:187:GLY:HA3	1:W:189:PRO:HB3	1.88	0.53
1:V:214:GLY:O	1:W:216:GLN:N	2.42	0.53
1:X:159:PRO:HB3	1:J:189:PRO:CG	2.38	0.53
1:X:167:ALA:CB	1:A:169:GLY:HA3	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:195:PRO:HB2	1:X:198:PRO:CB	2.39	0.53
1:A:168:PRO:HD3	1:K:198:PRO:CA	2.38	0.53
1:A:176:LEU:CD2	1:I:205:GLY:HA3	2.39	0.53
1:D:177:GLN:HB3	1:D:180:PRO:HG3	1.91	0.53
1:L:240:PRO:HB3	1:N:237:GLN:NE2	2.23	0.53
1:L:249:PRO:CA	1:N:249:PRO:HB2	2.39	0.53
1:O:182:ALA:HB3	1:P:184:GLY:N	2.23	0.53
1:O:216:GLN:CD	1:P:219:PRO:HB2	2.34	0.53
1:Y:203:ALA:C	1:1:204:PRO:HA	2.34	0.53
1:Y:222:GLN:CD	1:1:224:ALA:HB1	2.33	0.53
1:Y:234:PRO:N	1:Z:234:PRO:HA	2.23	0.53
1:Y:234:PRO:HB3	1:2:246:GLN:HE22	1.73	0.53
1:Z:236:LEU:HA	1:Z:239:ALA:HB2	1.89	0.53
1:2:203:ALA:CB	1:2:206:LEU:HD12	2.30	0.53
1:2:225:PRO:HA	1:4:228:PRO:O	2.09	0.53
1:R:206:LEU:CD2	1:T:205:GLY:HA3	2.38	0.53
1:V:216:GLN:CA	1:W:217:GLY:HA3	2.38	0.53
1:V:241:GLY:N	1:W:242:ALA:O	2.41	0.53
1:X:203:ALA:HA	1:A:203:ALA:HB3	1.90	0.53
1:A:158:ALA:CB	1:A:161:LEU:HD12	2.39	0.53
1:C:213:PRO:CB	1:D:210:PRO:HD2	2.38	0.53
1:D:221:LEU:HB2	1:K:240:PRO:CD	2.36	0.53
1:F:188:ALA:HA	1:H:188:ALA:CB	2.14	0.53
1:G:234:PRO:CB	1:H:238:GLY:HA2	2.37	0.53
1:I:206:LEU:HD22	1:K:206:LEU:CB	2.37	0.53
1:J:206:LEU:HA	1:K:206:LEU:O	2.09	0.53
1:L:258:PRO:O	1:M:257:ALA:HB1	2.08	0.53
1:O:228:PRO:HD3	1:T:245:SER:N	2.24	0.53
1:Y:201:GLN:HA	1:1:200:SER:C	2.33	0.53
1:Y:251:LEU:CD2	1:Y:252:GLN:H	2.16	0.53
1:Z:198:PRO:O	1:1:198:PRO:HB3	2.08	0.53
1:2:217:GLY:N	1:3:218:ALA:O	2.41	0.53
1:2:222:GLN:CD	1:4:225:PRO:HB2	2.34	0.53
1:2:245:SER:CB	1:4:248:ALA:HB2	2.34	0.53
1:R:234:PRO:HD2	1:S:234:PRO:CA	2.38	0.53
1:S:203:ALA:HB2	1:T:201:GLN:HE21	1.73	0.53
1:C:201:GLN:HG2	1:I:216:GLN:HG2	1.91	0.53
1:C:217:GLY:HA2	1:D:213:PRO:HB2	1.91	0.53
1:C:228:PRO:HB2	1:D:226:GLY:CA	2.39	0.53
1:E:171:GLN:HG3	1:K:188:ALA:HB2	1.87	0.53
1:F:222:GLN:HB2	1:G:219:PRO:CB	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:248:ALA:HB1	1:F:249:PRO:HD2	1.90	0.53
1:G:245:SER:C	1:H:246:GLN:HB3	2.34	0.53
1:K:236:LEU:HG	1:K:237:GLN:N	2.24	0.53
1:K:249:PRO:O	1:K:251:LEU:HD23	2.09	0.53
1:K:252:GLN:HG3	1:1:257:ALA:HB3	1.90	0.53
1:M:239:ALA:CB	1:N:243:PRO:HB3	2.39	0.53
1:O:219:PRO:HB2	1:P:222:GLN:HE22	1.73	0.53
1:P:177:GLN:HG2	1:Q:174:PRO:HD2	1.90	0.53
1:P:208:GLY:CA	1:Q:207:GLN:HA	2.14	0.53
1:P:221:LEU:HG	1:Q:224:ALA:CB	2.32	0.53
1:Z:235:GLY:O	1:2:248:ALA:HB2	2.09	0.53
1:3:212:ALA:CB	1:3:213:PRO:CD	2.87	0.53
1:R:225:PRO:HD3	1:S:225:PRO:HA	1.91	0.53
1:R:225:PRO:O	1:T:228:PRO:HB2	2.08	0.53
1:A:197:ALA:O	1:A:199:GLY:N	2.41	0.53
1:C:179:ALA:HB3	1:E:180:PRO:O	2.08	0.53
1:C:182:ALA:HA	1:H:193:GLY:O	2.09	0.53
1:C:206:LEU:CD2	1:D:206:LEU:HD13	2.39	0.53
1:D:176:LEU:HD11	1:H:189:PRO:HD2	1.91	0.53
1:D:186:GLN:O	1:D:186:GLN:HG3	2.08	0.53
1:G:233:ALA:HB1	1:G:234:PRO:CD	2.39	0.53
1:I:200:SER:HB2	1:L:213:PRO:HG2	1.90	0.53
1:K:255:PRO:HD3	1:M:266:LEU:HD11	1.89	0.53
1:M:207:GLN:HG3	1:N:207:GLN:H	1.72	0.53
1:O:201:GLN:HG2	1:O:204:PRO:HD3	1.91	0.53
1:2:212:ALA:HB1	1:4:216:GLN:CA	2.29	0.53
1:R:180:PRO:HA	1:S:180:PRO:O	2.09	0.53
1:R:186:GLN:HA	1:T:185:SER:CB	2.39	0.53
1:R:225:PRO:HD2	1:S:227:ALA:N	2.24	0.53
1:R:228:PRO:CD	1:U:243:PRO:HB3	2.39	0.53
1:U:236:LEU:CD2	1:V:237:GLN:HG2	2.39	0.53
1:U:245:SER:CA	1:V:245:SER:HB2	2.38	0.53
1:X:162:GLN:OE1	1:J:194:ALA:HB3	2.08	0.53
1:X:218:ALA:HB2	1:A:216:GLN:HB3	1.90	0.53
1:A:189:PRO:HD2	1:K:221:LEU:CD1	2.39	0.53
1:A:207:GLN:HB3	1:B:206:LEU:CG	2.39	0.53
1:C:207:GLN:HA	1:E:205:GLY:HA3	1.91	0.53
1:C:220:GLY:HA2	1:E:220:GLY:H	1.72	0.53
1:D:167:ALA:HA	1:E:167:ALA:CB	2.37	0.53
1:E:218:ALA:HB1	1:E:219:PRO:HD2	1.90	0.53
1:F:193:GLY:HA3	1:G:193:GLY:HA3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:251:LEU:HD23	1:J:251:LEU:HD11	1.91	0.53
1:L:232:GLY:O	1:N:230:SER:HB3	2.09	0.53
1:M:212:ALA:N	1:M:213:PRO:CD	2.72	0.53
1:P:199:GLY:N	1:Q:198:PRO:HG3	2.24	0.53
1:P:213:PRO:HD2	1:Q:212:ALA:HA	1.91	0.53
1:Q:212:ALA:HB3	1:Q:216:GLN:HB3	1.91	0.53
1:Y:222:GLN:HE22	1:1:224:ALA:HB1	1.74	0.53
1:Y:234:PRO:HB3	1:Z:235:GLY:CA	2.39	0.53
1:Y:243:PRO:HB3	1:Z:243:PRO:C	2.34	0.53
1:Z:206:LEU:CD2	1:1:207:GLN:HG3	2.32	0.53
1:2:214:GLY:CA	1:3:216:GLN:HG2	2.38	0.53
1:2:261:GLN:HA	1:4:263:ALA:N	2.24	0.53
1:3:252:GLN:OE1	1:4:249:PRO:HA	2.09	0.53
1:R:179:ALA:C	1:S:180:PRO:HD2	2.33	0.53
1:R:213:PRO:HG2	1:U:228:PRO:HA	1.91	0.53
1:U:208:GLY:HA3	1:W:207:GLN:C	2.34	0.53
1:U:222:GLN:HE21	1:U:225:PRO:HD3	1.74	0.53
1:X:160:GLY:CA	1:A:161:LEU:HD13	2.39	0.53
1:G:188:ALA:HA	1:H:190:GLY:N	2.24	0.53
1:J:194:ALA:N	1:J:195:PRO:HD3	2.24	0.53
1:K:194:ALA:N	1:K:195:PRO:HD3	2.24	0.53
1:L:210:PRO:HB2	1:M:209:ALA:O	2.09	0.53
1:L:234:PRO:HD3	1:M:230:SER:HB3	1.90	0.53
1:M:250:GLY:HA2	1:N:251:LEU:CA	2.39	0.53
1:O:209:ALA:HA	1:P:210:PRO:CG	2.38	0.53
1:Q:173:ALA:N	1:Q:174:PRO:HD3	2.24	0.53
1:Y:228:PRO:CG	1:1:228:PRO:HB2	2.39	0.53
1:Y:244:GLY:HA3	1:V:236:LEU:HB3	1.91	0.53
1:Y:246:GLN:CD	1:Z:246:GLN:HB3	2.34	0.53
1:Y:256:GLY:HA3	1:Z:261:GLN:NE2	2.24	0.53
1:Z:231:GLN:HB3	1:V:225:PRO:HG3	1.89	0.53
1:1:200:SER:O	1:1:201:GLN:HG2	2.09	0.53
1:2:245:SER:O	1:4:247:GLY:N	2.42	0.53
1:2:256:GLY:HA2	1:4:256:GLY:N	2.24	0.53
1:3:206:LEU:HD11	1:4:205:GLY:HA2	1.89	0.53
1:R:177:GLN:N	1:S:177:GLN:OE1	2.42	0.53
1:S:183:PRO:HD2	1:T:181:GLY:HA3	1.90	0.53
1:X:159:PRO:CG	1:J:189:PRO:HG3	2.39	0.52
1:X:201:GLN:HA	1:A:200:SER:OG	2.09	0.52
1:C:190:GLY:CA	1:E:190:GLY:HA2	2.28	0.52
1:C:201:GLN:HB2	1:I:216:GLN:NE2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:GLY:HA2	1:E:227:ALA:N	2.25	0.52
1:D:168:PRO:HD2	1:E:167:ALA:HB1	1.91	0.52
1:D:178:GLY:O	1:J:195:PRO:HG3	2.09	0.52
1:D:225:PRO:HG2	1:E:228:PRO:HB3	1.91	0.52
1:D:228:PRO:CD	1:G:237:GLN:HB2	2.39	0.52
1:G:199:GLY:CA	1:H:200:SER:HA	2.38	0.52
1:I:203:ALA:HB2	1:Z:210:PRO:CG	2.38	0.52
1:J:219:PRO:HB2	1:K:221:LEU:HG	1.91	0.52
1:K:254:ALA:C	1:L:268:GLY:HA3	2.34	0.52
1:K:255:PRO:HA	1:L:268:GLY:O	2.09	0.52
1:L:237:GLN:HG2	1:L:238:GLY:N	2.24	0.52
1:M:221:LEU:HD13	1:O:184:GLY:CA	2.40	0.52
1:M:247:GLY:O	1:M:248:ALA:HB3	2.08	0.52
1:O:189:PRO:HG3	1:Q:188:ALA:CB	2.32	0.52
1:O:202:GLY:HA2	1:1:235:GLY:N	2.24	0.52
1:Y:211:GLY:HA3	1:Z:214:GLY:C	2.34	0.52
1:Y:222:GLN:NE2	1:1:225:PRO:HD2	2.25	0.52
1:Y:222:GLN:HA	1:Z:223:GLY:CA	2.39	0.52
1:2:252:GLN:HG3	1:3:257:ALA:HB2	1.90	0.52
1:U:239:ALA:HB3	1:U:240:PRO:CD	2.32	0.52
1:A:158:ALA:HB1	1:A:161:LEU:HD12	1.90	0.52
1:C:208:GLY:HA2	1:E:207:GLN:N	2.21	0.52
1:D:183:PRO:HD3	1:E:182:ALA:HB1	1.91	0.52
1:F:180:PRO:HA	1:G:180:PRO:CB	2.39	0.52
1:F:198:PRO:CD	1:G:197:ALA:HA	2.38	0.52
1:F:217:GLY:HA2	1:G:214:GLY:HA3	1.91	0.52
1:G:192:GLN:HG3	1:G:193:GLY:N	2.23	0.52
1:I:249:PRO:HG2	1:K:249:PRO:N	2.23	0.52
1:J:235:GLY:N	1:K:237:GLN:HG2	2.23	0.52
1:L:249:PRO:HG3	1:N:249:PRO:HB3	1.91	0.52
1:M:234:PRO:HB2	1:N:238:GLY:HA2	1.91	0.52
1:O:169:GLY:HA3	1:P:168:PRO:HD2	1.91	0.52
1:2:235:GLY:HA3	1:3:236:LEU:C	2.34	0.52
1:R:181:GLY:CA	1:S:182:ALA:HA	2.39	0.52
1:R:203:ALA:HB1	1:T:205:GLY:H	1.72	0.52
1:R:208:GLY:HA3	1:T:209:ALA:HB3	1.90	0.52
1:R:238:GLY:N	1:S:236:LEU:HB3	2.24	0.52
1:V:236:LEU:CB	1:W:239:ALA:HB2	2.30	0.52
1:X:157:GLY:O	1:A:157:GLY:N	2.42	0.52
1:B:219:PRO:HB3	1:K:251:LEU:CD2	2.34	0.52
1:C:219:PRO:CD	1:E:218:ALA:HB2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:228:PRO:O	1:E:226:GLY:HA3	2.09	0.52
1:D:196:GLY:H	1:H:209:ALA:HB1	1.73	0.52
1:E:174:PRO:CG	1:K:188:ALA:HB1	2.40	0.52
1:J:188:ALA:HB3	1:K:189:PRO:CB	2.39	0.52
1:L:223:GLY:O	1:L:225:PRO:HD3	2.09	0.52
1:L:230:SER:HA	1:M:228:PRO:CA	2.31	0.52
1:M:229:GLY:HA3	1:N:231:GLN:HB2	1.92	0.52
1:M:248:ALA:HB3	1:M:249:PRO:CD	2.29	0.52
1:O:212:ALA:HB3	1:P:215:SER:CB	2.36	0.52
1:P:192:GLN:HG3	1:Q:189:PRO:CB	2.39	0.52
1:Q:176:LEU:HG	1:Q:176:LEU:O	2.10	0.52
1:Y:228:PRO:HD3	1:1:229:GLY:N	2.24	0.52
1:Z:198:PRO:HB2	1:1:198:PRO:CD	2.39	0.52
1:Z:223:GLY:CA	1:1:224:ALA:HB2	2.36	0.52
1:Z:256:GLY:HA2	1:2:267:GLN:NE2	2.25	0.52
1:2:236:LEU:HG	1:2:237:GLN:H	1.75	0.52
1:2:250:GLY:CA	1:3:251:LEU:HG	2.20	0.52
1:R:227:ALA:O	1:S:230:SER:HA	2.09	0.52
1:R:240:PRO:HD2	1:S:246:GLN:NE2	2.25	0.52
1:U:186:GLN:HB2	1:V:186:GLN:H	1.74	0.52
1:V:198:PRO:CB	1:V:201:GLN:HB2	2.40	0.52
1:X:193:GLY:HA2	1:A:191:LEU:C	2.34	0.52
1:X:216:GLN:O	1:A:214:GLY:HA2	2.09	0.52
1:A:190:GLY:N	1:B:191:LEU:HD22	2.24	0.52
1:A:208:GLY:O	1:K:238:GLY:HA2	2.09	0.52
1:C:185:SER:CA	1:E:185:SER:HA	2.38	0.52
1:C:236:LEU:HB2	1:I:254:ALA:CA	2.39	0.52
1:D:169:GLY:H	1:E:172:GLY:HA3	1.72	0.52
1:E:205:GLY:O	1:E:206:LEU:HD22	2.09	0.52
1:F:183:PRO:CA	1:G:184:GLY:HA3	2.32	0.52
1:F:190:GLY:HA3	1:G:191:LEU:CA	2.29	0.52
1:F:219:PRO:HB2	1:G:216:GLN:OE1	2.09	0.52
1:G:209:ALA:O	1:H:212:ALA:HB2	2.08	0.52
1:J:228:PRO:C	1:1:236:LEU:HD23	2.34	0.52
1:L:216:GLN:HE21	1:M:213:PRO:HD3	1.73	0.52
1:L:225:PRO:HG2	1:N:222:GLN:HA	1.92	0.52
1:M:207:GLN:HE21	1:N:206:LEU:HA	1.72	0.52
1:M:257:ALA:N	1:M:258:PRO:HD3	2.24	0.52
1:O:194:ALA:HB1	1:S:209:ALA:CA	2.37	0.52
1:O:222:GLN:NE2	1:O:225:PRO:HB3	2.23	0.52
1:P:210:PRO:HA	1:Q:209:ALA:CA	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:259:GLY:O	1:1:260:SER:OG	2.23	0.52
1:2:221:LEU:HB3	1:3:222:GLN:HE22	1.75	0.52
1:2:268:GLY:CA	1:3:268:GLY:HA2	2.40	0.52
1:4:263:ALA:N	1:4:264:PRO:CD	2.72	0.52
1:S:236:LEU:HG	1:T:240:PRO:CD	2.38	0.52
1:U:207:GLN:HB3	1:W:207:GLN:CB	2.40	0.52
1:V:253:GLY:HA3	1:W:256:GLY:HA2	1.91	0.52
1:X:168:PRO:HD2	1:X:170:SER:HB3	1.91	0.52
1:C:230:SER:OG	1:D:227:ALA:O	2.25	0.52
1:D:237:GLN:HA	1:E:239:ALA:H	1.74	0.52
1:F:206:LEU:HB2	1:G:207:GLN:C	2.34	0.52
1:J:188:ALA:HB3	1:K:189:PRO:HB3	1.92	0.52
1:Y:249:PRO:N	1:Z:251:LEU:HD21	2.24	0.52
1:2:220:GLY:CA	1:3:222:GLN:HA	2.40	0.52
1:2:257:ALA:O	1:3:259:GLY:HA3	2.09	0.52
1:R:206:LEU:HD22	1:T:205:GLY:CA	2.39	0.52
1:S:215:SER:HA	1:T:216:GLN:CA	2.39	0.52
1:S:223:GLY:CA	1:T:224:ALA:HB1	2.36	0.52
1:U:185:SER:HB2	1:V:186:GLN:OE1	2.09	0.52
1:U:252:GLN:HB2	1:V:249:PRO:CD	2.40	0.52
1:V:205:GLY:O	1:V:206:LEU:HB2	2.09	0.52
1:V:212:ALA:CB	1:W:213:PRO:HG2	2.33	0.52
1:X:184:GLY:CA	1:B:186:GLN:HB2	2.40	0.52
1:A:174:PRO:HD2	1:I:204:PRO:CB	2.40	0.52
1:A:195:PRO:CA	1:J:224:ALA:HB1	2.25	0.52
1:A:223:GLY:HA2	1:K:256:GLY:CA	2.40	0.52
1:G:189:PRO:HD3	1:H:189:PRO:HA	1.91	0.52
1:I:255:PRO:HB2	1:K:257:ALA:CB	2.39	0.52
1:L:208:GLY:HA3	1:M:207:GLN:O	2.10	0.52
1:L:257:ALA:N	1:M:258:PRO:HD2	2.24	0.52
1:O:198:PRO:HB2	1:P:201:GLN:CG	2.40	0.52
1:O:210:PRO:CB	1:Q:212:ALA:HA	2.33	0.52
1:Y:243:PRO:HD2	1:Z:246:GLN:HE21	1.75	0.52
1:Y:248:ALA:N	1:W:243:PRO:HG2	2.24	0.52
1:Z:192:GLN:HB2	1:1:192:GLN:N	2.24	0.52
1:Z:195:PRO:CG	1:1:195:PRO:HG3	2.39	0.52
1:Z:237:GLN:OE1	1:W:230:SER:HA	2.09	0.52
1:Z:256:GLY:HA2	1:2:267:GLN:HG3	1.90	0.52
1:2:263:ALA:N	1:4:263:ALA:HB3	2.24	0.52
1:2:264:PRO:HB2	1:4:266:LEU:HD11	1.92	0.52
1:S:200:SER:CB	1:T:198:PRO:HB2	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:207:GLN:NE2	1:T:206:LEU:O	2.36	0.52
1:U:227:ALA:O	1:W:224:ALA:N	2.43	0.52
1:U:229:GLY:O	1:W:227:ALA:HA	2.09	0.52
1:W:206:LEU:HG	1:W:206:LEU:O	2.10	0.52
1:X:221:LEU:HB2	1:B:221:LEU:HB2	1.88	0.52
1:C:207:GLN:HA	1:E:205:GLY:CA	2.39	0.52
1:G:231:GLN:HG3	1:H:230:SER:O	2.10	0.52
1:H:183:PRO:HB3	1:H:186:GLN:NE2	2.25	0.52
1:I:237:GLN:HA	1:J:240:PRO:HA	1.91	0.52
1:I:237:GLN:HG2	1:J:240:PRO:HA	1.92	0.52
1:I:249:PRO:HG2	1:K:248:ALA:HA	1.90	0.52
1:J:255:PRO:C	1:L:263:ALA:HB3	2.34	0.52
1:M:215:SER:O	1:N:218:ALA:HB2	2.10	0.52
1:M:266:LEU:HB3	1:P:230:SER:CB	2.28	0.52
1:P:208:GLY:CA	1:Q:207:GLN:HG3	2.39	0.52
1:P:215:SER:HA	1:Q:216:GLN:HA	1.91	0.52
1:Z:232:GLY:H	1:V:225:PRO:HG2	1.75	0.52
1:2:209:ALA:C	1:3:212:ALA:HB3	2.34	0.52
1:2:225:PRO:HB2	1:4:228:PRO:HD2	1.91	0.52
1:3:209:ALA:HB3	1:4:210:PRO:CB	2.40	0.52
1:3:218:ALA:CB	1:4:219:PRO:HB2	2.28	0.52
1:3:249:PRO:CD	1:4:249:PRO:HD3	2.39	0.52
1:R:232:GLY:HA3	1:T:235:GLY:CA	2.33	0.52
1:U:250:GLY:HA2	1:W:250:GLY:C	2.35	0.52
1:E:173:ALA:N	1:E:174:PRO:HD3	2.25	0.52
1:F:246:GLN:NE2	1:G:246:GLN:O	2.43	0.52
1:G:227:ALA:CB	1:H:230:SER:HA	2.16	0.52
1:J:237:GLN:HG2	1:J:240:PRO:HG3	1.91	0.52
1:J:252:GLN:HB3	1:I:256:GLY:CA	2.40	0.52
1:J:253:GLY:HA3	1:K:252:GLN:CG	2.39	0.52
1:L:208:GLY:HA3	1:M:208:GLY:N	2.25	0.52
1:L:240:PRO:HG3	1:N:237:GLN:C	2.35	0.52
1:M:204:PRO:HG2	1:N:204:PRO:CB	2.39	0.52
1:O:192:GLN:O	1:Q:190:GLY:HA2	2.09	0.52
1:O:224:ALA:HB3	1:P:228:PRO:HB3	1.92	0.52
1:Y:231:GLN:HB2	1:Z:230:SER:C	2.35	0.52
1:3:206:LEU:HA	1:4:206:LEU:O	2.09	0.52
1:R:188:ALA:CA	1:T:186:GLN:HB2	2.36	0.52
1:R:221:LEU:HG	1:R:222:GLN:CG	2.32	0.52
1:X:188:ALA:HB2	1:B:187:GLY:C	2.34	0.52
1:A:207:GLN:OE1	1:B:206:LEU:HD12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:200:SER:O	1:D:200:SER:HB3	2.10	0.52
1:C:201:GLN:HB3	1:E:202:GLY:HA2	1.91	0.52
1:C:205:GLY:HA3	1:E:206:LEU:HD21	1.89	0.52
1:C:237:GLN:NE2	1:E:234:PRO:HA	2.25	0.52
1:F:197:ALA:HA	1:G:198:PRO:HD2	1.92	0.52
1:F:197:ALA:CA	1:G:198:PRO:HG2	2.39	0.52
1:G:195:PRO:N	1:H:195:PRO:HG2	2.24	0.52
1:I:242:ALA:HB1	1:J:246:GLN:HG3	1.92	0.52
1:L:240:PRO:CD	1:N:237:GLN:HA	2.40	0.52
1:M:208:GLY:HA3	1:N:212:ALA:HB2	1.92	0.52
1:P:213:PRO:CB	1:Q:212:ALA:HB2	2.40	0.52
1:P:226:GLY:HA2	1:Q:227:ALA:N	2.24	0.52
1:Y:218:ALA:O	1:Z:220:GLY:HA2	2.10	0.52
1:Z:216:GLN:HB2	1:1:218:ALA:N	2.25	0.52
1:Z:234:PRO:HG2	1:W:229:GLY:H	1.75	0.52
1:Z:251:LEU:HD11	1:1:248:ALA:HB3	1.92	0.52
1:3:266:LEU:HD23	1:3:266:LEU:H	1.75	0.52
1:V:195:PRO:HB3	1:W:197:ALA:N	2.25	0.52
1:W:232:GLY:O	1:W:233:ALA:HB2	2.10	0.52
1:X:207:GLN:CA	1:A:206:LEU:HA	2.39	0.52
1:C:202:GLY:HA2	1:E:201:GLN:HE22	1.75	0.52
1:C:231:GLN:OE1	1:C:234:PRO:HD3	2.10	0.52
1:E:219:PRO:O	1:J:235:GLY:HA2	2.09	0.52
1:F:218:ALA:HB1	1:H:219:PRO:CD	2.27	0.52
1:F:221:LEU:HB3	1:H:220:GLY:C	2.34	0.52
1:H:215:SER:O	1:H:216:GLN:HB2	2.09	0.52
1:H:237:GLN:C	1:H:240:PRO:HD3	2.35	0.52
1:L:207:GLN:HA	1:N:207:GLN:NE2	2.25	0.52
1:M:244:GLY:HA3	1:N:246:GLN:O	2.10	0.52
1:O:180:PRO:HB3	1:Q:180:PRO:HA	1.92	0.52
1:P:189:PRO:HB3	1:P:191:LEU:HD23	1.91	0.52
1:2:219:PRO:CB	1:4:224:ALA:HA	2.38	0.52
1:R:180:PRO:HG3	1:T:178:GLY:O	2.09	0.52
1:V:196:GLY:N	1:W:198:PRO:HG3	2.25	0.52
1:X:183:PRO:C	1:A:186:GLN:HG3	2.35	0.51
1:A:162:GLN:HB3	1:B:165:PRO:CA	2.40	0.51
1:A:162:GLN:O	1:B:165:PRO:HA	2.10	0.51
1:A:177:GLN:NE2	1:A:180:PRO:HA	2.25	0.51
1:A:213:PRO:O	1:B:215:SER:HB2	2.10	0.51
1:B:216:GLN:NE2	1:K:245:SER:OG	2.43	0.51
1:B:225:PRO:HG3	1:4:273:PRO:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:225:PRO:O	1:E:224:ALA:N	2.42	0.51
1:E:210:PRO:O	1:K:227:ALA:HA	2.09	0.51
1:F:207:GLN:HB3	1:H:207:GLN:HB2	1.90	0.51
1:I:188:ALA:O	1:K:188:ALA:HB3	2.10	0.51
1:J:244:GLY:HA3	1:1:249:PRO:HB2	1.91	0.51
1:L:201:GLN:CG	1:N:204:PRO:HG3	2.40	0.51
1:L:219:PRO:CB	1:N:218:ALA:HB2	2.40	0.51
1:M:219:PRO:O	1:O:183:PRO:HG2	2.10	0.51
1:O:194:ALA:HB1	1:O:195:PRO:HD2	1.92	0.51
1:Y:218:ALA:C	1:1:222:GLN:HB3	2.35	0.51
1:Y:225:PRO:HD2	1:Z:228:PRO:CG	2.39	0.51
1:Z:192:GLN:HB2	1:1:191:LEU:C	2.35	0.51
1:Z:198:PRO:HD2	1:1:198:PRO:HD3	1.92	0.51
1:Z:251:LEU:CD1	1:1:248:ALA:HB3	2.40	0.51
1:2:202:GLY:O	1:4:203:ALA:N	2.38	0.51
1:3:216:GLN:CG	1:4:219:PRO:HD3	2.40	0.51
1:3:219:PRO:C	1:4:221:LEU:HA	2.35	0.51
1:3:248:ALA:HA	1:4:248:ALA:CB	2.39	0.51
1:3:252:GLN:HG2	1:4:250:GLY:N	2.24	0.51
1:3:258:PRO:HG3	1:V:236:LEU:HD21	1.92	0.51
1:4:247:GLY:O	1:4:248:ALA:CB	2.58	0.51
1:S:186:GLN:HE21	1:T:183:PRO:HA	1.74	0.51
1:T:210:PRO:HD2	1:U:222:GLN:OE1	2.10	0.51
1:X:196:GLY:CA	1:B:197:ALA:HA	2.40	0.51
1:A:173:ALA:HA	1:J:203:ALA:CB	2.41	0.51
1:A:220:GLY:O	1:K:251:LEU:HG	2.09	0.51
1:C:201:GLN:CB	1:I:216:GLN:HG2	2.40	0.51
1:D:234:PRO:HG2	1:J:257:ALA:HB1	1.92	0.51
1:G:244:GLY:N	1:H:246:GLN:OE1	2.37	0.51
1:I:187:GLY:CA	1:K:187:GLY:HA2	2.35	0.51
1:I:206:LEU:HB2	1:Z:214:GLY:HA2	1.93	0.51
1:I:216:GLN:OE1	1:K:220:GLY:N	2.42	0.51
1:I:250:GLY:CA	1:K:249:PRO:HB3	2.40	0.51
1:J:195:PRO:HD2	1:K:195:PRO:CB	2.35	0.51
1:J:205:GLY:C	1:K:204:PRO:HD2	2.35	0.51
1:J:236:LEU:CD2	1:K:240:PRO:HD3	2.41	0.51
1:L:204:PRO:HG3	1:N:207:GLN:NE2	2.25	0.51
1:L:212:ALA:CB	1:N:213:PRO:HG3	2.39	0.51
1:O:164:ALA:CB	1:Q:164:ALA:HB3	2.29	0.51
1:O:187:GLY:HA3	1:Q:186:GLN:C	2.35	0.51
1:Y:197:ALA:C	1:1:198:PRO:HD2	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:256:GLY:CA	1:Z:258:PRO:HG2	2.38	0.51
1:2:256:GLY:HA2	1:4:256:GLY:CA	2.40	0.51
1:2:262:GLY:CA	1:3:264:PRO:HD2	2.40	0.51
1:R:188:ALA:O	1:T:189:PRO:HA	2.10	0.51
1:R:204:PRO:HB2	1:S:205:GLY:HA3	1.92	0.51
1:S:229:GLY:O	1:T:231:GLN:N	2.39	0.51
1:V:218:ALA:CB	1:W:219:PRO:HB3	2.39	0.51
1:C:218:ALA:CB	1:K:232:GLY:HA3	2.40	0.51
1:C:224:ALA:CA	1:E:223:GLY:HA2	2.40	0.51
1:F:201:GLN:C	1:G:204:PRO:HD3	2.34	0.51
1:G:233:ALA:CA	1:H:234:PRO:HA	2.40	0.51
1:I:251:LEU:CD1	1:I:254:ALA:HB3	2.36	0.51
1:J:213:PRO:CB	1:K:215:SER:HA	2.32	0.51
1:P:208:GLY:HA3	1:Q:207:GLN:HG3	1.91	0.51
1:R:180:PRO:HA	1:S:180:PRO:CB	2.40	0.51
1:R:216:GLN:HB3	1:T:222:GLN:OE1	2.10	0.51
1:R:225:PRO:O	1:T:229:GLY:N	2.40	0.51
1:U:231:GLN:CA	1:V:228:PRO:HB3	2.39	0.51
1:A:189:PRO:C	1:B:191:LEU:HD22	2.36	0.51
1:A:206:LEU:HD13	1:K:238:GLY:N	2.25	0.51
1:A:223:GLY:HA2	1:K:256:GLY:HA2	1.93	0.51
1:D:168:PRO:HB3	1:K:186:GLN:O	2.10	0.51
1:K:252:GLN:CG	1:1:257:ALA:HB3	2.40	0.51
1:L:208:GLY:O	1:L:209:ALA:CB	2.58	0.51
1:L:235:GLY:O	1:M:235:GLY:N	2.44	0.51
1:L:256:GLY:CA	1:M:255:PRO:HA	2.41	0.51
1:P:175:GLY:HA3	1:Q:171:GLN:C	2.36	0.51
1:P:206:LEU:HG	1:P:207:GLN:OE1	2.11	0.51
1:Y:239:ALA:N	1:V:233:ALA:HB1	2.24	0.51
1:Y:251:LEU:CB	1:U:248:ALA:HB3	2.40	0.51
1:Z:201:GLN:HB3	1:1:200:SER:HB3	1.91	0.51
1:Z:213:PRO:HD2	1:1:211:GLY:HA2	1.92	0.51
1:2:238:GLY:N	1:3:240:PRO:HA	2.25	0.51
1:3:209:ALA:HB1	1:3:210:PRO:CD	2.41	0.51
1:3:209:ALA:HB1	1:3:210:PRO:HD2	1.92	0.51
1:3:212:ALA:HA	1:4:210:PRO:CA	2.40	0.51
1:4:251:LEU:HD21	1:4:255:PRO:HG2	1.93	0.51
1:R:223:GLY:O	1:T:227:ALA:N	2.43	0.51
1:U:207:GLN:CB	1:W:207:GLN:HB2	2.40	0.51
1:V:222:GLN:HA	1:W:222:GLN:NE2	2.26	0.51
1:A:176:LEU:HG	1:I:206:LEU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:ALA:HB3	1:B:180:PRO:CB	2.26	0.51
1:A:215:SER:HB3	1:B:215:SER:HB2	1.92	0.51
1:C:177:GLN:C	1:E:178:GLY:HA2	2.35	0.51
1:D:174:PRO:HB3	1:H:185:SER:HB2	1.92	0.51
1:I:187:GLY:HA3	1:K:187:GLY:N	2.26	0.51
1:I:194:ALA:C	1:K:195:PRO:HB2	2.36	0.51
1:I:237:GLN:NE2	1:K:244:GLY:HA3	2.23	0.51
1:K:252:GLN:NE2	1:K:255:PRO:CD	2.74	0.51
1:L:254:ALA:N	1:N:255:PRO:O	2.43	0.51
1:M:200:SER:C	1:M:201:GLN:HG3	2.36	0.51
1:O:210:PRO:HD2	1:Q:206:LEU:HD23	1.93	0.51
1:R:208:GLY:O	1:T:209:ALA:HB3	2.11	0.51
1:S:209:ALA:HB3	1:S:210:PRO:CD	2.36	0.51
1:U:201:GLN:HE22	1:V:204:PRO:HD2	1.75	0.51
1:X:167:ALA:HB2	1:A:168:PRO:O	2.10	0.51
1:X:183:PRO:HD2	1:A:183:PRO:HG3	1.92	0.51
1:X:190:GLY:O	1:A:191:LEU:HB3	2.11	0.51
1:X:210:PRO:HB3	1:B:213:PRO:HD3	1.92	0.51
1:A:154:GLY:N	1:J:186:GLN:O	2.42	0.51
1:B:173:ALA:HB2	1:3:220:GLY:CA	2.39	0.51
1:C:171:GLN:CA	1:D:171:GLN:HA	2.41	0.51
1:C:210:PRO:HB2	1:D:209:ALA:N	2.26	0.51
1:D:175:GLY:O	1:E:177:GLN:HB2	2.11	0.51
1:F:195:PRO:CG	1:H:194:ALA:HA	2.40	0.51
1:J:219:PRO:C	1:K:221:LEU:HG	2.35	0.51
1:J:251:LEU:HD21	1:J:255:PRO:CB	2.41	0.51
1:J:256:GLY:HA3	1:K:254:ALA:HA	1.91	0.51
1:K:223:GLY:O	1:K:225:PRO:HD3	2.11	0.51
1:M:223:GLY:C	1:N:225:PRO:HA	2.34	0.51
1:Z:197:ALA:HA	1:I:195:PRO:CB	2.41	0.51
1:R:206:LEU:HA	1:T:206:LEU:N	2.26	0.51
1:R:227:ALA:C	1:U:243:PRO:HA	2.36	0.51
1:W:192:GLN:HG2	1:W:192:GLN:O	2.08	0.51
1:B:222:GLN:HG3	1:4:267:GLN:HG2	1.93	0.51
1:C:171:GLN:HA	1:D:171:GLN:CA	2.41	0.51
1:C:201:GLN:HB2	1:I:216:GLN:HE21	1.76	0.51
1:G:182:ALA:O	1:H:183:PRO:HD2	2.11	0.51
1:I:251:LEU:HD21	1:J:251:LEU:HD11	1.92	0.51
1:J:193:GLY:HA3	1:K:193:GLY:H	1.75	0.51
1:O:177:GLN:NE2	1:Z:207:GLN:HB2	2.26	0.51
1:O:178:GLY:N	1:P:180:PRO:HD2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:224:ALA:HB3	1:P:228:PRO:CB	2.41	0.51
1:Y:215:SER:HB3	1:W:209:ALA:CB	2.40	0.51
1:Y:229:GLY:O	1:1:231:GLN:N	2.43	0.51
1:Y:234:PRO:HA	1:Z:234:PRO:C	2.35	0.51
1:Z:191:LEU:HA	1:1:190:GLY:HA3	1.93	0.51
1:Z:212:ALA:H	1:1:210:PRO:HG2	1.74	0.51
1:2:211:GLY:O	1:3:215:SER:HB2	2.11	0.51
1:R:187:GLY:HA2	1:S:188:ALA:C	2.36	0.51
1:S:229:GLY:CA	1:T:233:ALA:HB2	2.41	0.51
1:U:212:ALA:CA	1:V:210:PRO:HB3	2.37	0.51
1:U:244:GLY:HA3	1:V:246:GLN:HE21	1.75	0.51
1:V:224:ALA:N	1:V:225:PRO:HD3	2.26	0.51
1:W:222:GLN:CG	1:W:225:PRO:HA	2.39	0.51
1:W:247:GLY:O	1:W:249:PRO:HD3	2.10	0.51
1:X:161:LEU:HD22	1:A:164:ALA:CA	2.40	0.51
1:X:169:GLY:N	1:B:170:SER:HB2	2.26	0.51
1:X:216:GLN:NE2	1:B:213:PRO:HB2	2.26	0.51
1:A:192:GLN:O	1:J:222:GLN:NE2	2.38	0.51
1:I:251:LEU:CB	1:I:254:ALA:HB3	2.41	0.51
1:J:195:PRO:CD	1:K:195:PRO:HB3	2.35	0.51
1:L:201:GLN:HG3	1:N:204:PRO:CG	2.40	0.51
1:L:224:ALA:N	1:N:221:LEU:HD23	2.26	0.51
1:M:229:GLY:C	1:N:231:GLN:HA	2.36	0.51
1:Q:186:GLN:CD	1:S:202:GLY:HA2	2.35	0.51
1:Y:237:GLN:O	1:1:240:PRO:O	2.28	0.51
1:Z:207:GLN:NE2	1:1:207:GLN:O	2.41	0.51
1:1:216:GLN:O	1:1:219:PRO:HD3	2.11	0.51
1:3:219:PRO:HD3	1:4:218:ALA:CB	2.40	0.51
1:3:221:LEU:HA	1:4:221:LEU:HD23	1.91	0.51
1:R:185:SER:CB	1:S:185:SER:HA	2.41	0.51
1:R:219:PRO:HG2	1:U:234:PRO:CB	2.41	0.51
1:T:225:PRO:HG2	1:U:237:GLN:CG	2.41	0.51
1:X:196:GLY:N	1:B:198:PRO:HD2	2.26	0.51
1:A:177:GLN:CA	1:B:177:GLN:HG2	2.41	0.51
1:C:236:LEU:HB2	1:I:254:ALA:HA	1.93	0.51
1:D:231:GLN:HA	1:E:232:GLY:N	2.25	0.51
1:G:243:PRO:HA	1:H:246:GLN:OE1	2.11	0.51
1:I:205:GLY:O	1:K:204:PRO:HB2	2.11	0.51
1:J:223:GLY:HA3	1:K:225:PRO:HG2	1.92	0.51
1:M:244:GLY:O	1:M:246:GLN:N	2.40	0.51
1:O:177:GLN:O	1:O:180:PRO:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:221:LEU:HD12	1:O:222:GLN:H	1.76	0.51
1:O:229:GLY:O	1:P:231:GLN:HG3	2.10	0.51
1:P:203:ALA:HB2	1:Q:201:GLN:HB2	1.90	0.51
1:P:210:PRO:HG2	1:Q:206:LEU:CB	2.31	0.51
1:2:235:GLY:CA	1:4:236:LEU:HD12	2.40	0.51
1:R:179:ALA:N	1:S:179:ALA:HA	2.26	0.51
1:T:191:LEU:HB3	1:T:192:GLN:HE22	1.76	0.51
1:U:181:GLY:HA2	1:V:180:PRO:HA	1.93	0.51
1:U:186:GLN:HB3	1:V:185:SER:OG	2.11	0.51
1:C:192:GLN:HB3	1:E:194:ALA:N	2.26	0.51
1:C:200:SER:N	1:E:200:SER:HB2	2.26	0.51
1:G:195:PRO:HB3	1:H:195:PRO:HB2	1.93	0.51
1:G:233:ALA:HA	1:H:233:ALA:C	2.36	0.51
1:G:244:GLY:C	1:H:246:GLN:HB2	2.36	0.51
1:J:218:ALA:HA	1:K:218:ALA:CB	2.39	0.51
1:L:216:GLN:HA	1:N:215:SER:HA	1.93	0.51
1:L:230:SER:HB3	1:N:229:GLY:CA	2.41	0.51
1:O:178:GLY:C	1:P:180:PRO:HD2	2.34	0.51
1:O:192:GLN:OE1	1:O:194:ALA:N	2.44	0.51
1:O:195:PRO:HB3	1:P:197:ALA:N	2.25	0.51
1:O:213:PRO:CA	1:Q:213:PRO:O	2.59	0.51
1:Y:210:PRO:CD	1:1:210:PRO:HB2	2.41	0.51
1:Y:258:PRO:HA	1:Z:262:GLY:O	2.11	0.51
1:Z:217:GLY:HA2	1:1:218:ALA:HA	1.92	0.51
1:2:253:GLY:HA2	1:3:255:PRO:C	2.35	0.51
1:3:246:GLN:OE1	1:4:246:GLN:HG2	2.10	0.51
1:R:204:PRO:HD2	1:T:204:PRO:CA	2.40	0.51
1:R:230:SER:C	1:T:234:PRO:HD2	2.36	0.51
1:U:180:PRO:HB2	1:W:182:ALA:O	2.11	0.51
1:X:161:LEU:HD23	1:J:194:ALA:HB1	1.93	0.50
1:X:196:GLY:O	1:X:197:ALA:HB3	2.10	0.50
1:A:165:PRO:HG2	1:B:168:PRO:CB	2.39	0.50
1:A:209:ALA:H	1:B:212:ALA:HB2	1.75	0.50
1:A:211:GLY:N	1:B:213:PRO:O	2.42	0.50
1:D:235:GLY:O	1:E:238:GLY:HA3	2.11	0.50
1:D:235:GLY:N	1:E:235:GLY:O	2.44	0.50
1:F:211:GLY:O	1:G:210:PRO:HB2	2.11	0.50
1:F:231:GLN:N	1:G:228:PRO:HA	2.26	0.50
1:I:224:ALA:HB2	1:1:233:ALA:HB1	1.93	0.50
1:J:222:GLN:O	1:K:224:ALA:HB1	2.12	0.50
1:L:242:ALA:H	1:N:243:PRO:HA	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:262:GLY:CA	1:M:261:GLN:HA	2.41	0.50
1:Y:229:GLY:H	1:1:230:SER:HA	1.76	0.50
1:Y:233:ALA:O	1:1:237:GLN:HG2	2.11	0.50
1:1:204:PRO:HD2	1:1:207:GLN:CD	2.36	0.50
1:2:224:ALA:N	1:3:225:PRO:HA	2.25	0.50
1:2:264:PRO:HG3	1:3:264:PRO:C	2.36	0.50
1:S:195:PRO:HD2	1:T:195:PRO:HD3	1.92	0.50
1:U:221:LEU:HD22	1:U:224:ALA:HB1	1.92	0.50
1:V:188:ALA:CB	1:V:189:PRO:CD	2.79	0.50
1:V:236:LEU:HA	1:W:238:GLY:HA3	1.92	0.50
1:X:161:LEU:HB3	1:A:164:ALA:HB2	1.92	0.50
1:B:170:SER:HA	1:3:216:GLN:HB2	1.93	0.50
1:B:191:LEU:N	1:B:191:LEU:HD23	2.26	0.50
1:C:188:ALA:HB3	1:D:188:ALA:C	2.36	0.50
1:C:218:ALA:C	1:E:219:PRO:HD2	2.37	0.50
1:D:217:GLY:H	1:E:218:ALA:HB3	1.74	0.50
1:F:191:LEU:HB2	1:G:192:GLN:CB	2.34	0.50
1:G:199:GLY:HA3	1:H:199:GLY:O	2.10	0.50
1:G:240:PRO:HA	1:H:241:GLY:O	2.11	0.50
1:G:242:ALA:O	1:H:245:SER:N	2.42	0.50
1:I:252:GLN:HA	1:K:251:LEU:CB	2.25	0.50
1:L:263:ALA:N	1:L:264:PRO:HD3	2.26	0.50
1:O:182:ALA:CB	1:P:182:ALA:HB1	2.39	0.50
1:P:210:PRO:N	1:Q:209:ALA:HA	2.25	0.50
1:Y:259:GLY:HA2	1:1:260:SER:O	2.12	0.50
1:Z:194:ALA:HA	1:1:193:GLY:O	2.11	0.50
1:2:248:ALA:N	1:2:249:PRO:HD3	2.26	0.50
1:R:175:GLY:HA2	1:T:174:PRO:CD	2.41	0.50
1:R:224:ALA:HB1	1:S:227:ALA:CB	2.41	0.50
1:R:225:PRO:HD3	1:S:225:PRO:CA	2.40	0.50
1:R:226:GLY:O	1:R:227:ALA:C	2.54	0.50
1:T:225:PRO:HB2	1:U:238:GLY:O	2.11	0.50
1:U:222:GLN:NE2	1:U:223:GLY:O	2.44	0.50
1:X:155:SER:HB3	1:J:185:SER:O	2.10	0.50
1:A:204:PRO:HG2	1:B:205:GLY:HA2	1.92	0.50
1:A:218:ALA:HB3	1:I:252:GLN:OE1	2.10	0.50
1:D:207:GLN:HG3	1:E:210:PRO:CG	2.41	0.50
1:E:239:ALA:N	1:I:257:ALA:HB3	2.25	0.50
1:F:198:PRO:HG3	1:H:200:SER:HA	1.93	0.50
1:F:215:SER:O	1:G:214:GLY:HA3	2.11	0.50
1:L:221:LEU:CD1	1:N:221:LEU:HA	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:246:GLN:HE22	1:M:245:SER:HB3	1.76	0.50
1:M:204:PRO:HA	1:M:206:LEU:HD23	1.93	0.50
1:O:173:ALA:HB3	1:P:173:ALA:O	2.12	0.50
1:O:176:LEU:CG	1:P:178:GLY:HA2	2.42	0.50
1:O:182:ALA:HB1	1:P:185:SER:CB	2.41	0.50
1:O:182:ALA:HB1	1:P:185:SER:N	2.26	0.50
1:O:205:GLY:O	1:O:207:GLN:NE2	2.43	0.50
1:Y:237:GLN:CB	1:1:239:ALA:HB1	2.41	0.50
1:3:228:PRO:C	1:4:230:SER:HB3	2.36	0.50
1:R:215:SER:C	1:U:230:SER:HB2	2.37	0.50
1:U:192:GLN:HB2	1:W:195:PRO:HD2	1.89	0.50
1:U:198:PRO:CG	1:W:198:PRO:HG2	2.41	0.50
1:X:190:GLY:HA2	1:B:191:LEU:HD22	1.93	0.50
1:X:195:PRO:HB2	1:X:198:PRO:HB3	1.94	0.50
1:X:227:ALA:HB2	1:A:222:GLN:HG2	1.94	0.50
1:G:231:GLN:O	1:G:231:GLN:HG2	2.12	0.50
1:I:201:GLN:OE1	1:K:203:ALA:N	2.43	0.50
1:I:249:PRO:HG2	1:K:248:ALA:CA	2.41	0.50
1:L:237:GLN:HG2	1:N:236:LEU:HB3	1.92	0.50
1:L:251:LEU:O	1:N:251:LEU:HA	2.11	0.50
1:Y:192:GLN:HG2	1:1:192:GLN:CB	2.41	0.50
1:Y:230:SER:HB3	1:1:231:GLN:CB	2.42	0.50
1:Z:245:SER:HB3	1:1:245:SER:OG	2.11	0.50
1:2:227:ALA:O	1:4:230:SER:OG	2.28	0.50
1:R:213:PRO:HG2	1:U:227:ALA:C	2.35	0.50
1:R:216:GLN:HA	1:S:218:ALA:HB3	1.94	0.50
1:T:227:ALA:HA	1:U:239:ALA:CA	2.41	0.50
1:U:240:PRO:O	1:V:239:ALA:N	2.43	0.50
1:X:219:PRO:HD2	1:A:216:GLN:CD	2.37	0.50
1:C:201:GLN:HB3	1:E:202:GLY:C	2.36	0.50
1:C:219:PRO:CG	1:E:218:ALA:HB2	2.42	0.50
1:D:168:PRO:CD	1:E:167:ALA:HB1	2.42	0.50
1:E:190:GLY:CA	1:J:207:GLN:HG3	2.42	0.50
1:F:226:GLY:O	1:G:223:GLY:HA3	2.11	0.50
1:I:196:GLY:HA3	1:K:198:PRO:CD	2.41	0.50
1:I:240:PRO:CB	1:J:241:GLY:HA2	2.42	0.50
1:J:205:GLY:HA3	1:K:204:PRO:HD2	1.92	0.50
1:L:235:GLY:N	1:N:234:PRO:HA	2.26	0.50
1:O:210:PRO:CA	1:P:212:ALA:HA	2.40	0.50
1:Y:229:GLY:C	1:1:231:GLN:HB2	2.37	0.50
1:R:216:GLN:CG	1:T:219:PRO:HB2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:224:ALA:HB3	1:W:222:GLN:C	2.36	0.50
1:V:195:PRO:HG3	1:W:196:GLY:CA	2.42	0.50
1:A:196:GLY:C	1:D:210:PRO:HB2	2.37	0.50
1:D:224:ALA:CB	1:K:243:PRO:HD3	2.41	0.50
1:F:193:GLY:H	1:H:193:GLY:HA2	1.76	0.50
1:L:219:PRO:HB2	1:N:218:ALA:HB2	1.93	0.50
1:L:227:ALA:HB3	1:M:225:PRO:CA	2.39	0.50
1:N:237:GLN:O	1:N:237:GLN:HG3	2.11	0.50
1:2:210:PRO:HA	1:3:213:PRO:HD3	1.94	0.50
1:2:225:PRO:HA	1:4:227:ALA:HB1	1.94	0.50
1:2:243:PRO:CD	1:4:244:GLY:HA2	2.38	0.50
1:3:234:PRO:CB	1:4:234:PRO:HB2	2.37	0.50
1:R:185:SER:H	1:S:185:SER:HA	1.76	0.50
1:R:231:GLN:O	1:T:234:PRO:HD2	2.12	0.50
1:B:155:SER:OG	1:2:204:PRO:HG3	2.11	0.50
1:F:180:PRO:HG3	1:H:181:GLY:N	2.26	0.50
1:F:195:PRO:HG2	1:H:194:ALA:HA	1.94	0.50
1:F:250:GLY:HA3	1:H:250:GLY:HA2	1.94	0.50
1:G:182:ALA:CB	1:H:182:ALA:HB1	2.35	0.50
1:J:207:GLN:HB2	1:K:207:GLN:O	2.12	0.50
1:L:215:SER:HB3	1:M:213:PRO:HB3	1.94	0.50
1:O:189:PRO:HA	1:Q:188:ALA:O	2.10	0.50
1:P:198:PRO:CA	1:Q:198:PRO:HG3	2.41	0.50
1:P:216:GLN:HE21	1:Q:217:GLY:HA3	1.77	0.50
1:2:262:GLY:HA3	1:3:265:GLY:H	1.76	0.50
1:R:180:PRO:N	1:S:180:PRO:HD2	2.26	0.50
1:R:222:GLN:HA	1:T:226:GLY:O	2.11	0.50
1:R:228:PRO:HD2	1:U:243:PRO:CG	2.34	0.50
1:R:239:ALA:HB2	1:T:241:GLY:CA	2.42	0.50
1:X:161:LEU:HD23	1:X:162:GLN:H	1.76	0.50
1:D:182:ALA:N	1:E:182:ALA:HB3	2.27	0.50
1:D:228:PRO:HB2	1:G:237:GLN:HB3	1.92	0.50
1:E:209:ALA:HA	1:J:224:ALA:HB3	1.93	0.50
1:E:209:ALA:HB2	1:J:224:ALA:HB3	1.93	0.50
1:F:183:PRO:HB3	1:H:183:PRO:CB	2.39	0.50
1:I:209:ALA:CA	1:K:210:PRO:HB3	2.42	0.50
1:I:250:GLY:HA3	1:K:249:PRO:CG	2.39	0.50
1:L:220:GLY:HA2	1:N:219:PRO:HG2	1.94	0.50
1:O:182:ALA:CA	1:P:182:ALA:HB1	2.41	0.50
1:Y:207:GLN:CA	1:1:206:LEU:HD22	2.42	0.50
1:1:215:SER:HB3	1:1:219:PRO:CD	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:231:GLN:OE1	1:V:221:LEU:HD23	2.12	0.50
1:2:225:PRO:O	1:3:228:PRO:HG3	2.12	0.50
1:2:270:PRO:HG3	1:4:270:PRO:HD2	1.94	0.50
1:U:186:GLN:CD	1:V:188:ALA:HB2	2.37	0.50
1:X:190:GLY:HA3	1:B:190:GLY:O	2.12	0.50
1:C:193:GLY:C	1:D:193:GLY:HA3	2.37	0.50
1:C:200:SER:HB3	1:D:200:SER:N	2.25	0.50
1:C:234:PRO:HD2	1:D:231:GLN:C	2.37	0.50
1:E:232:GLY:O	1:F:245:SER:HA	2.12	0.50
1:F:234:PRO:HD2	1:G:232:GLY:N	2.26	0.50
1:I:221:LEU:HD21	1:Z:226:GLY:O	2.12	0.50
1:I:252:GLN:CD	1:K:249:PRO:HA	2.37	0.50
1:Y:204:PRO:HB2	1:1:204:PRO:CB	2.37	0.50
1:Y:251:LEU:HD22	1:U:249:PRO:HG3	1.93	0.50
1:Z:195:PRO:HG2	1:1:195:PRO:HG3	1.94	0.50
1:1:215:SER:HB3	1:1:219:PRO:HD2	1.94	0.50
1:2:210:PRO:HG3	1:4:211:GLY:HA2	1.94	0.50
1:2:252:GLN:HG3	1:3:257:ALA:HB1	1.93	0.50
1:R:234:PRO:HG2	1:S:234:PRO:HB3	1.93	0.50
1:S:217:GLY:C	1:T:218:ALA:HA	2.37	0.50
1:S:231:GLN:CD	1:V:246:GLN:HA	2.37	0.50
1:X:166:GLY:C	1:X:168:PRO:HD3	2.37	0.49
1:A:174:PRO:CD	1:J:203:ALA:HB3	2.31	0.49
1:E:173:ALA:N	1:K:189:PRO:HD2	2.27	0.49
1:F:185:SER:HB2	1:H:186:GLN:O	2.12	0.49
1:F:200:SER:HB3	1:H:201:GLN:CA	2.41	0.49
1:F:219:PRO:CD	1:G:214:GLY:O	2.60	0.49
1:G:192:GLN:CD	1:H:195:PRO:HB3	2.36	0.49
1:I:229:GLY:HA3	1:K:230:SER:CB	2.42	0.49
1:I:243:PRO:HB3	1:J:243:PRO:HB2	1.94	0.49
1:O:218:ALA:C	1:P:220:GLY:HA2	2.36	0.49
1:P:173:ALA:HB1	1:Q:170:SER:C	2.37	0.49
1:P:208:GLY:N	1:Q:207:GLN:HG3	2.27	0.49
1:Y:251:LEU:HD12	1:1:251:LEU:HD23	1.94	0.49
1:Z:218:ALA:N	1:1:219:PRO:O	2.42	0.49
1:Z:232:GLY:HA2	1:4:245:SER:CB	2.35	0.49
1:R:212:ALA:HA	1:W:223:GLY:O	2.12	0.49
1:R:236:LEU:H	1:T:239:ALA:HA	1.74	0.49
1:V:205:GLY:CA	1:W:206:LEU:HD22	2.41	0.49
1:V:218:ALA:O	1:W:221:LEU:HB3	2.11	0.49
1:X:184:GLY:CA	1:A:186:GLN:HG3	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:193:GLY:O	1:B:195:PRO:HD3	2.12	0.49
1:X:209:ALA:O	1:X:211:GLY:N	2.45	0.49
1:X:210:PRO:HB2	1:B:213:PRO:HD3	1.93	0.49
1:A:156:GLN:HB2	1:B:157:GLY:O	2.11	0.49
1:D:224:ALA:CB	1:E:225:PRO:HB2	2.40	0.49
1:D:224:ALA:HB1	1:E:228:PRO:HG3	1.94	0.49
1:G:208:GLY:O	1:H:210:PRO:HA	2.12	0.49
1:I:192:GLN:HB3	1:K:191:LEU:HB3	1.93	0.49
1:J:237:GLN:CG	1:J:240:PRO:HG3	2.43	0.49
1:L:269:ALA:H	1:M:267:GLN:HG3	1.77	0.49
1:Y:232:GLY:N	1:Z:232:GLY:O	2.45	0.49
1:Y:255:PRO:HD2	1:Z:257:ALA:CA	2.42	0.49
1:Y:257:ALA:O	1:Z:260:SER:HA	2.12	0.49
1:Z:237:GLN:HB3	1:W:230:SER:HB2	1.92	0.49
1:2:243:PRO:HG3	1:4:242:ALA:CB	2.41	0.49
1:V:188:ALA:HA	1:W:188:ALA:O	2.13	0.49
1:C:185:SER:HB3	1:E:186:GLN:CD	2.38	0.49
1:D:196:GLY:H	1:H:210:PRO:HD2	1.76	0.49
1:D:237:GLN:NE2	1:E:240:PRO:O	2.44	0.49
1:F:190:GLY:H	1:G:188:ALA:HB1	1.76	0.49
1:F:208:GLY:HA3	1:H:207:GLN:C	2.37	0.49
1:F:222:GLN:OE1	1:H:218:ALA:HB3	2.12	0.49
1:F:242:ALA:HA	1:G:238:GLY:O	2.12	0.49
1:G:207:GLN:HG2	1:H:206:LEU:HB2	1.94	0.49
1:I:191:LEU:HD11	1:N:204:PRO:CD	2.34	0.49
1:I:206:LEU:HD11	1:Z:212:ALA:O	2.12	0.49
1:L:222:GLN:HB2	1:M:219:PRO:N	2.27	0.49
1:L:268:GLY:HA2	1:M:266:LEU:HG	1.95	0.49
1:O:201:GLN:NE2	1:Q:202:GLY:HA3	2.26	0.49
1:P:227:ALA:H	1:Q:229:GLY:HA2	1.77	0.49
1:Y:207:GLN:NE2	1:Z:206:LEU:HB3	2.27	0.49
1:Y:208:GLY:HA2	1:1:206:LEU:HD13	1.94	0.49
1:2:223:GLY:N	1:3:223:GLY:O	2.45	0.49
1:R:191:LEU:CA	1:T:191:LEU:HB2	2.42	0.49
1:R:206:LEU:HD12	1:W:218:ALA:CB	2.19	0.49
1:R:219:PRO:HD3	1:T:222:GLN:H	1.76	0.49
1:U:198:PRO:HG3	1:W:198:PRO:CG	2.43	0.49
1:U:215:SER:OG	1:V:216:GLN:NE2	2.45	0.49
1:X:165:PRO:O	1:X:168:PRO:HD3	2.13	0.49
1:X:201:GLN:OE1	1:X:203:ALA:HB2	2.13	0.49
1:X:208:GLY:CA	1:A:206:LEU:HG	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167:ALA:HB3	1:K:198:PRO:HB3	1.93	0.49
1:A:189:PRO:HD2	1:K:221:LEU:HD11	1.94	0.49
1:A:212:ALA:O	1:B:215:SER:HA	2.12	0.49
1:C:192:GLN:HE22	1:D:191:LEU:HD12	1.76	0.49
1:F:206:LEU:HB2	1:G:207:GLN:H	1.76	0.49
1:F:225:PRO:O	1:G:223:GLY:HA3	2.12	0.49
1:G:195:PRO:HA	1:H:195:PRO:HD2	1.94	0.49
1:J:194:ALA:HA	1:K:194:ALA:O	2.11	0.49
1:L:209:ALA:N	1:M:208:GLY:O	2.46	0.49
1:L:257:ALA:C	1:M:258:PRO:HD2	2.37	0.49
1:L:264:PRO:HD2	1:N:265:GLY:CA	2.38	0.49
1:P:173:ALA:HB2	1:Q:169:GLY:C	2.37	0.49
1:P:198:PRO:HA	1:Q:198:PRO:CA	2.43	0.49
1:P:213:PRO:HD2	1:Q:212:ALA:N	2.26	0.49
1:Y:192:GLN:CG	1:1:192:GLN:HB2	2.38	0.49
1:Y:205:GLY:O	1:Z:206:LEU:HD21	2.12	0.49
1:Y:228:PRO:HB3	1:W:221:LEU:HD12	1.94	0.49
1:1:206:LEU:HD21	1:1:208:GLY:O	2.12	0.49
1:R:180:PRO:HA	1:S:180:PRO:C	2.37	0.49
1:R:204:PRO:HD2	1:T:203:ALA:C	2.37	0.49
1:R:229:GLY:HA3	1:S:231:GLN:HA	1.92	0.49
1:S:183:PRO:HB2	1:S:186:GLN:CD	2.38	0.49
1:U:210:PRO:HB3	1:W:209:ALA:O	2.12	0.49
1:X:204:PRO:CD	1:B:204:PRO:HD2	2.42	0.49
1:A:203:ALA:CB	1:A:204:PRO:CD	2.89	0.49
1:A:207:GLN:CB	1:B:210:PRO:HB3	2.39	0.49
1:C:198:PRO:CD	1:E:198:PRO:HA	2.40	0.49
1:F:224:ALA:HB2	1:H:221:LEU:CB	2.31	0.49
1:H:237:GLN:O	1:H:240:PRO:HD3	2.12	0.49
1:K:233:ALA:N	1:K:234:PRO:HD3	2.27	0.49
1:L:204:PRO:N	1:N:205:GLY:HA3	2.27	0.49
1:O:219:PRO:N	1:P:220:GLY:HA2	2.28	0.49
1:P:186:GLN:HG3	1:Q:185:SER:OG	2.13	0.49
1:Y:222:GLN:HB3	1:Z:224:ALA:O	2.13	0.49
1:Z:215:SER:HB2	1:1:212:ALA:HB1	1.95	0.49
1:2:237:GLN:NE2	1:3:241:GLY:HA3	2.26	0.49
1:2:244:GLY:O	1:2:245:SER:OG	2.24	0.49
1:3:208:GLY:CA	1:4:210:PRO:HD3	2.40	0.49
1:3:213:PRO:HD3	1:4:210:PRO:C	2.36	0.49
1:R:187:GLY:HA2	1:S:189:PRO:HA	1.94	0.49
1:R:203:ALA:C	1:T:204:PRO:HA	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:232:GLY:O	1:R:234:PRO:HD3	2.11	0.49
1:S:201:GLN:OE1	1:T:201:GLN:N	2.36	0.49
1:V:226:GLY:CA	1:W:227:ALA:HB1	2.42	0.49
1:X:189:PRO:HB2	1:A:189:PRO:HB2	1.94	0.49
1:A:174:PRO:HD2	1:I:204:PRO:HB3	1.93	0.49
1:B:179:ALA:HB1	1:B:180:PRO:CD	2.43	0.49
1:C:203:ALA:CB	1:E:203:ALA:HB1	2.43	0.49
1:F:186:GLN:N	1:G:187:GLY:HA3	2.28	0.49
1:F:191:LEU:N	1:G:191:LEU:HA	2.28	0.49
1:I:213:PRO:CA	1:K:213:PRO:HG2	2.43	0.49
1:J:247:GLY:C	1:J:249:PRO:HD2	2.37	0.49
1:K:240:PRO:O	1:K:242:ALA:N	2.44	0.49
1:M:214:GLY:O	1:N:215:SER:OG	2.30	0.49
1:M:247:GLY:O	1:M:249:PRO:HD3	2.13	0.49
1:P:196:GLY:HA3	1:Q:195:PRO:O	2.12	0.49
1:P:196:GLY:HA3	1:Q:196:GLY:N	2.26	0.49
1:P:199:GLY:N	1:Q:198:PRO:HB3	2.28	0.49
1:Y:221:LEU:C	1:Z:223:GLY:HA3	2.38	0.49
1:Y:228:PRO:HD2	1:I:228:PRO:HB2	1.92	0.49
1:Y:253:GLY:HA3	1:I:254:ALA:HA	1.95	0.49
1:2:270:PRO:HB3	1:4:270:PRO:O	2.13	0.49
1:R:193:GLY:C	1:W:204:PRO:HG3	2.37	0.49
1:T:201:GLN:HG3	1:T:202:GLY:N	2.27	0.49
1:T:201:GLN:HG3	1:T:202:GLY:H	1.77	0.49
1:A:221:LEU:HD11	1:K:252:GLN:HB2	1.94	0.49
1:B:173:ALA:HB3	1:2:218:ALA:O	2.12	0.49
1:C:228:PRO:HB2	1:D:226:GLY:O	2.12	0.49
1:D:196:GLY:N	1:H:210:PRO:HD2	2.27	0.49
1:I:235:GLY:O	1:I:245:SER:OG	2.30	0.49
1:I:236:LEU:HD23	1:I:237:GLN:C	2.38	0.49
1:I:246:GLN:HE22	1:K:243:PRO:HG2	1.77	0.49
1:J:252:GLN:HB3	1:I:255:PRO:C	2.36	0.49
1:L:252:GLN:HA	1:N:253:GLY:N	2.26	0.49
1:L:253:GLY:N	1:N:253:GLY:O	2.45	0.49
1:N:226:GLY:O	1:N:228:PRO:HD3	2.13	0.49
1:N:266:LEU:HD12	1:N:267:GLN:HG2	1.94	0.49
1:Y:190:GLY:HA3	1:I:190:GLY:CA	2.30	0.49
1:Y:228:PRO:HD2	1:4:240:PRO:HD3	1.93	0.49
1:2:214:GLY:CA	1:4:219:PRO:HG2	2.37	0.49
1:2:231:GLN:HB2	1:3:230:SER:C	2.38	0.49
1:R:177:GLN:HB3	1:T:177:GLN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:235:GLY:HA3	1:S:236:LEU:HD12	1.95	0.49
1:S:212:ALA:HB1	1:S:213:PRO:CD	2.42	0.49
1:U:229:GLY:O	1:W:228:PRO:HD3	2.13	0.49
1:U:247:GLY:HA2	1:U:251:LEU:CG	2.42	0.49
1:U:248:ALA:CB	1:W:247:GLY:HA3	2.21	0.49
1:V:224:ALA:C	1:W:227:ALA:HB3	2.36	0.49
1:W:247:GLY:O	1:W:248:ALA:CB	2.59	0.49
1:X:184:GLY:N	1:B:186:GLN:HB2	2.27	0.49
1:X:206:LEU:HB3	1:A:206:LEU:H	1.77	0.49
1:X:206:LEU:O	1:X:207:GLN:HG2	2.11	0.49
1:C:219:PRO:HD2	1:D:214:GLY:HA3	1.94	0.49
1:C:226:GLY:HA2	1:E:224:ALA:CB	2.41	0.49
1:F:194:ALA:O	1:G:194:ALA:HB3	2.13	0.49
1:I:228:PRO:HB3	1:K:231:GLN:OE1	2.13	0.49
1:L:211:GLY:O	1:L:212:ALA:HB2	2.12	0.49
1:M:241:GLY:HA2	1:N:242:ALA:HB3	1.95	0.49
1:O:169:GLY:HA3	1:P:168:PRO:CD	2.43	0.49
1:Y:235:GLY:HA2	1:1:237:GLN:O	2.13	0.49
1:Y:249:PRO:C	1:W:247:GLY:HA2	2.37	0.49
1:2:243:PRO:HG2	1:3:244:GLY:N	2.28	0.49
1:3:203:ALA:N	1:4:203:ALA:HA	2.27	0.49
1:3:209:ALA:HB3	1:4:210:PRO:HB2	1.93	0.49
1:R:221:LEU:HD23	1:R:221:LEU:H	1.77	0.49
1:R:222:GLN:O	1:S:225:PRO:CA	2.60	0.49
1:R:237:GLN:OE1	1:R:240:PRO:CD	2.60	0.49
1:U:208:GLY:CA	1:W:208:GLY:HA3	2.43	0.49
1:W:239:ALA:N	1:W:240:PRO:HD3	2.28	0.49
1:X:161:LEU:HG	1:J:194:ALA:CB	2.42	0.49
1:A:188:ALA:HB2	1:J:219:PRO:HG3	1.94	0.49
1:C:213:PRO:HG3	1:D:210:PRO:HD2	1.95	0.49
1:D:182:ALA:CB	1:I:197:ALA:HB2	2.42	0.49
1:F:200:SER:HB3	1:H:201:GLN:O	2.12	0.49
1:F:216:GLN:O	1:G:214:GLY:N	2.45	0.49
1:F:233:ALA:CA	1:G:231:GLN:HB3	2.40	0.49
1:I:228:PRO:HA	1:K:229:GLY:O	2.13	0.49
1:I:243:PRO:CA	1:J:246:GLN:HB3	2.26	0.49
1:P:177:GLN:NE2	1:Q:177:GLN:HB3	2.28	0.49
1:P:200:SER:HA	1:Q:199:GLY:C	2.38	0.49
1:Y:235:GLY:N	1:1:237:GLN:HB2	2.28	0.49
1:Y:255:PRO:HD2	1:Z:258:PRO:HD2	1.95	0.49
1:Z:191:LEU:HA	1:1:191:LEU:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:247:GLY:C	1:Z:249:PRO:HD3	2.38	0.49
1:2:212:ALA:CB	1:4:216:GLN:HA	2.29	0.49
1:3:218:ALA:HB2	1:4:219:PRO:CB	2.30	0.49
1:U:203:ALA:N	1:V:203:ALA:HA	2.28	0.49
1:V:240:PRO:HB2	1:W:244:GLY:HA3	1.94	0.49
1:X:187:GLY:O	1:B:191:LEU:HD23	2.13	0.49
1:A:208:GLY:HA2	1:K:236:LEU:HD23	1.93	0.49
1:A:221:LEU:HD23	1:A:223:GLY:N	2.26	0.49
1:C:208:GLY:HA3	1:E:207:GLN:NE2	2.28	0.49
1:D:180:PRO:HD2	1:K:192:GLN:HE22	1.78	0.49
1:D:195:PRO:HG3	1:G:207:GLN:HG3	1.95	0.49
1:F:204:PRO:HB2	1:H:207:GLN:OE1	2.13	0.49
1:F:205:GLY:HA2	1:G:206:LEU:HD13	1.91	0.49
1:I:234:PRO:HB2	1:J:238:GLY:CA	2.32	0.49
1:M:266:LEU:CB	1:P:230:SER:HB3	2.30	0.49
1:N:263:ALA:N	1:N:264:PRO:HD3	2.28	0.49
1:O:190:GLY:HA2	1:P:191:LEU:HA	1.95	0.49
1:P:222:GLN:HA	1:Q:225:PRO:CD	2.30	0.49
1:Y:208:GLY:N	1:1:206:LEU:HD13	2.27	0.49
1:Y:252:GLN:N	1:U:249:PRO:HG3	2.27	0.49
1:Y:253:GLY:CA	1:1:254:ALA:HA	2.43	0.49
1:X:195:PRO:HD3	1:A:193:GLY:HA3	1.95	0.48
1:X:203:ALA:HA	1:A:203:ALA:N	2.27	0.48
1:X:218:ALA:CB	1:X:221:LEU:HD22	2.43	0.48
1:X:224:ALA:CA	1:B:223:GLY:HA2	2.43	0.48
1:C:180:PRO:CD	1:E:180:PRO:HG2	2.43	0.48
1:C:191:LEU:CG	1:E:191:LEU:HA	2.43	0.48
1:C:234:PRO:CG	1:D:230:SER:HB2	2.43	0.48
1:G:239:ALA:O	1:H:240:PRO:HB3	2.13	0.48
1:I:190:GLY:CA	1:K:191:LEU:HD13	2.43	0.48
1:I:207:GLN:NE2	1:K:206:LEU:O	2.45	0.48
1:J:188:ALA:HB1	1:K:189:PRO:HB3	1.94	0.48
1:M:206:LEU:O	1:N:210:PRO:HB3	2.12	0.48
1:O:180:PRO:HD3	1:Q:179:ALA:N	2.28	0.48
1:O:206:LEU:CD1	1:1:240:PRO:HG3	2.43	0.48
1:O:208:GLY:O	1:P:210:PRO:HB2	2.12	0.48
1:O:221:LEU:HD12	1:O:222:GLN:HG2	1.95	0.48
1:Y:202:GLY:HA3	1:1:201:GLN:NE2	2.26	0.48
1:Y:202:GLY:HA3	1:1:201:GLN:HE22	1.78	0.48
1:Z:256:GLY:CA	1:2:267:GLN:HG3	2.43	0.48
1:Z:258:PRO:HG2	1:Z:261:GLN:HE22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:252:GLN:CD	1:I:255:PRO:HA	2.38	0.48
1:R:190:GLY:C	1:T:191:LEU:HG	2.38	0.48
1:R:209:ALA:CB	1:S:212:ALA:HB3	2.30	0.48
1:S:191:LEU:CA	1:T:189:PRO:HB2	2.43	0.48
1:T:227:ALA:HA	1:U:239:ALA:HA	1.95	0.48
1:C:195:PRO:HD2	1:D:193:GLY:CA	2.42	0.48
1:C:220:GLY:CA	1:E:219:PRO:HG2	2.43	0.48
1:D:222:GLN:HE21	1:F:236:LEU:HD23	1.78	0.48
1:F:186:GLN:NE2	1:G:188:ALA:HB3	2.28	0.48
1:F:210:PRO:O	1:H:213:PRO:HG3	2.13	0.48
1:G:198:PRO:CA	1:H:198:PRO:HD2	2.43	0.48
1:I:224:ALA:HB2	1:I:233:ALA:HB3	1.94	0.48
1:I:226:GLY:HA3	1:J:228:PRO:CB	2.42	0.48
1:J:248:ALA:N	1:J:249:PRO:HD2	2.28	0.48
1:L:214:GLY:O	1:L:218:ALA:N	2.46	0.48
1:L:216:GLN:CG	1:M:212:ALA:HB3	2.42	0.48
1:L:246:GLN:OE1	1:M:245:SER:OG	2.14	0.48
1:L:262:GLY:O	1:M:261:GLN:HA	2.12	0.48
1:M:232:GLY:HA3	1:N:233:ALA:O	2.12	0.48
1:M:250:GLY:HA2	1:N:251:LEU:N	2.28	0.48
1:O:191:LEU:C	1:Q:192:GLN:HB2	2.38	0.48
1:Y:218:ALA:HB3	1:Z:220:GLY:N	2.28	0.48
1:Y:237:GLN:CA	1:Y:240:PRO:HD3	2.43	0.48
1:Y:246:GLN:O	1:W:243:PRO:O	2.31	0.48
1:Z:236:LEU:CD2	1:I:237:GLN:HG3	2.34	0.48
1:I:215:SER:O	1:I:216:GLN:HB3	2.13	0.48
1:R:193:GLY:H	1:T:195:PRO:HD2	1.78	0.48
1:R:206:LEU:N	1:S:206:LEU:HA	2.29	0.48
1:R:216:GLN:NE2	1:T:219:PRO:HB3	2.28	0.48
1:R:236:LEU:HA	1:S:237:GLN:CG	2.43	0.48
1:S:194:ALA:HB1	1:T:195:PRO:CB	2.40	0.48
1:U:255:PRO:HB3	1:W:256:GLY:HA2	1.95	0.48
1:V:231:GLN:HB2	1:W:231:GLN:CA	2.42	0.48
1:X:186:GLN:CA	1:A:186:GLN:HA	2.43	0.48
1:C:179:ALA:HB2	1:D:180:PRO:HA	1.92	0.48
1:C:197:ALA:N	1:C:198:PRO:HD3	2.28	0.48
1:D:178:GLY:HA3	1:E:176:LEU:HG	1.94	0.48
1:D:221:LEU:HB3	1:K:240:PRO:HD2	1.95	0.48
1:F:243:PRO:CD	1:G:239:ALA:HA	2.43	0.48
1:I:200:SER:OG	1:L:210:PRO:O	2.23	0.48
1:L:211:GLY:N	1:M:209:ALA:HB3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:247:GLY:H	1:M:246:GLN:HA	1.77	0.48
1:M:245:SER:HA	1:N:248:ALA:N	2.28	0.48
1:O:176:LEU:CD2	1:P:178:GLY:HA2	2.42	0.48
1:O:195:PRO:HG2	1:S:209:ALA:C	2.38	0.48
1:O:198:PRO:HA	1:Q:198:PRO:CB	2.19	0.48
1:Q:212:ALA:HB1	1:Q:216:GLN:HB3	1.94	0.48
1:Y:228:PRO:HG3	1:1:229:GLY:H	1.78	0.48
1:2:268:GLY:H	1:4:269:ALA:HB2	1.78	0.48
1:R:178:GLY:CA	1:S:179:ALA:HA	2.44	0.48
1:R:228:PRO:CD	1:T:228:PRO:CB	2.92	0.48
1:R:235:GLY:CA	1:T:240:PRO:HD2	2.40	0.48
1:U:224:ALA:HB3	1:W:222:GLN:N	2.27	0.48
1:U:250:GLY:HA3	1:W:252:GLN:CA	2.42	0.48
1:V:238:GLY:O	1:V:239:ALA:HB2	2.13	0.48
1:X:164:ALA:HB2	1:A:163:GLY:C	2.38	0.48
1:X:206:LEU:HD22	1:E:219:PRO:CB	2.43	0.48
1:C:180:PRO:CB	1:E:183:PRO:HD3	2.43	0.48
1:D:185:SER:O	1:E:186:GLN:HA	2.14	0.48
1:F:202:GLY:HA3	1:H:201:GLN:CD	2.38	0.48
1:F:212:ALA:C	1:G:212:ALA:HB2	2.36	0.48
1:F:219:PRO:HD2	1:G:214:GLY:O	2.13	0.48
1:F:230:SER:C	1:G:228:PRO:HA	2.38	0.48
1:F:231:GLN:HA	1:F:231:GLN:NE2	2.28	0.48
1:G:238:GLY:O	1:H:240:PRO:HA	2.13	0.48
1:I:243:PRO:CG	1:J:243:PRO:HB2	2.43	0.48
1:J:207:GLN:HB2	1:K:207:GLN:CA	2.43	0.48
1:J:242:ALA:CB	1:Z:249:PRO:HG2	2.43	0.48
1:J:246:GLN:O	1:K:248:ALA:HB2	2.13	0.48
1:L:229:GLY:H	1:M:228:PRO:HG3	1.77	0.48
1:Z:212:ALA:CB	1:1:210:PRO:HG2	2.43	0.48
1:Z:247:GLY:HA3	1:1:246:GLN:OE1	2.14	0.48
1:Z:256:GLY:C	1:Z:258:PRO:HD3	2.38	0.48
1:2:237:GLN:HA	1:3:239:ALA:O	2.13	0.48
1:2:259:GLY:O	1:3:260:SER:HA	2.12	0.48
1:3:236:LEU:HD12	1:4:237:GLN:HG2	1.95	0.48
1:4:269:ALA:HB1	1:4:270:PRO:CD	2.42	0.48
1:R:219:PRO:CG	1:U:234:PRO:HG3	2.43	0.48
1:A:180:PRO:CD	1:J:210:PRO:HG2	2.42	0.48
1:B:168:PRO:O	1:3:216:GLN:HB3	2.13	0.48
1:B:177:GLN:O	1:2:221:LEU:HD13	2.14	0.48
1:C:198:PRO:HD2	1:D:198:PRO:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:198:PRO:HD2	1:D:197:ALA:H	1.77	0.48
1:C:210:PRO:CG	1:D:210:PRO:HD3	2.40	0.48
1:D:192:GLN:OE1	1:G:204:PRO:HG2	2.13	0.48
1:E:204:PRO:O	1:E:206:LEU:HD23	2.13	0.48
1:F:189:PRO:HB2	1:H:192:GLN:NE2	2.27	0.48
1:F:212:ALA:HB2	1:H:213:PRO:C	2.37	0.48
1:F:233:ALA:HB1	1:G:231:GLN:O	2.13	0.48
1:I:209:ALA:H	1:J:212:ALA:HA	1.78	0.48
1:K:218:ALA:CB	1:Y:221:LEU:HD22	2.42	0.48
1:L:216:GLN:HG2	1:M:212:ALA:C	2.38	0.48
1:M:236:LEU:HD12	1:M:237:GLN:N	2.28	0.48
1:M:252:GLN:HG3	1:M:253:GLY:N	2.28	0.48
1:O:180:PRO:HD3	1:Q:178:GLY:C	2.39	0.48
1:P:180:PRO:HA	1:Q:175:GLY:O	2.13	0.48
1:Y:231:GLN:HE22	1:Y:233:ALA:HB2	1.77	0.48
1:Y:238:GLY:C	1:Z:241:GLY:O	2.57	0.48
1:Z:195:PRO:HD2	1:1:193:GLY:O	2.13	0.48
1:2:226:GLY:CA	1:4:230:SER:HB2	2.44	0.48
1:2:249:PRO:CG	1:4:248:ALA:HA	2.43	0.48
1:3:207:GLN:HB2	1:4:208:GLY:O	2.13	0.48
1:3:207:GLN:CB	1:4:208:GLY:HA2	2.33	0.48
1:3:246:GLN:HG2	1:3:248:ALA:H	1.78	0.48
1:R:222:GLN:O	1:S:225:PRO:HB3	2.14	0.48
1:U:197:ALA:H	1:V:197:ALA:HB3	1.77	0.48
1:U:198:PRO:HD2	1:V:197:ALA:C	2.37	0.48
1:X:204:PRO:CD	1:B:204:PRO:HB2	2.44	0.48
1:X:218:ALA:HB1	1:A:216:GLN:CG	2.43	0.48
1:A:155:SER:OG	1:B:161:LEU:HD13	2.14	0.48
1:A:179:ALA:CB	1:B:180:PRO:HB3	2.26	0.48
1:A:209:ALA:HB1	1:E:222:GLN:NE2	2.28	0.48
1:C:179:ALA:HB1	1:D:181:GLY:H	1.77	0.48
1:C:201:GLN:HG3	1:E:203:ALA:HA	1.95	0.48
1:D:196:GLY:N	1:H:209:ALA:HB1	2.28	0.48
1:F:198:PRO:HG3	1:H:200:SER:HB2	1.93	0.48
1:F:215:SER:O	1:F:219:PRO:HD3	2.13	0.48
1:J:219:PRO:HG2	1:K:221:LEU:CD1	2.43	0.48
1:K:254:ALA:CB	1:M:266:LEU:HD21	2.44	0.48
1:L:205:GLY:N	1:M:203:ALA:O	2.46	0.48
1:L:266:LEU:HD23	1:M:265:GLY:C	2.39	0.48
1:M:247:GLY:H	1:N:249:PRO:HD2	1.76	0.48
1:O:172:GLY:HA3	1:P:171:GLN:CA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:189:PRO:CG	1:Q:188:ALA:HB3	2.34	0.48
1:O:228:PRO:CD	1:P:227:ALA:HB1	2.43	0.48
1:P:217:GLY:CA	1:Q:217:GLY:HA2	2.43	0.48
1:Y:204:PRO:HD2	1:1:204:PRO:HG3	1.94	0.48
1:Y:243:PRO:HB3	1:Z:244:GLY:HA2	1.95	0.48
1:Z:195:PRO:HG2	1:1:195:PRO:CG	2.44	0.48
1:Z:219:PRO:HA	1:1:221:LEU:CA	2.41	0.48
1:2:244:GLY:HA3	1:3:246:GLN:OE1	2.14	0.48
1:R:226:GLY:O	1:T:230:SER:HA	2.13	0.48
1:T:206:LEU:HD12	1:T:207:GLN:N	2.26	0.48
1:X:159:PRO:HB3	1:J:189:PRO:HG3	1.94	0.48
1:C:194:ALA:N	1:C:195:PRO:CD	2.76	0.48
1:C:214:GLY:O	1:C:216:GLN:NE2	2.47	0.48
1:I:219:PRO:HB3	1:J:220:GLY:CA	2.42	0.48
1:J:207:GLN:HB2	1:K:207:GLN:CB	2.44	0.48
1:L:204:PRO:HG3	1:N:207:GLN:CD	2.39	0.48
1:L:266:LEU:HD22	1:M:266:LEU:CD2	2.38	0.48
1:O:194:ALA:O	1:Q:195:PRO:HD2	2.14	0.48
1:P:221:LEU:O	1:Q:224:ALA:HA	2.13	0.48
1:2:239:ALA:HB1	1:2:243:PRO:HG3	1.95	0.48
1:3:237:GLN:HB3	1:4:239:ALA:HA	1.96	0.48
1:R:194:ALA:O	1:R:196:GLY:N	2.47	0.48
1:R:238:GLY:HA3	1:V:255:PRO:CB	2.28	0.48
1:U:227:ALA:O	1:W:224:ALA:HA	2.14	0.48
1:V:195:PRO:HB3	1:W:197:ALA:CA	2.43	0.48
1:A:222:GLN:O	1:I:255:PRO:HB3	2.12	0.48
1:C:206:LEU:CD2	1:D:206:LEU:HA	2.35	0.48
1:C:224:ALA:HB2	1:E:221:LEU:CD2	2.44	0.48
1:C:234:PRO:HG2	1:D:230:SER:HB2	1.96	0.48
1:F:180:PRO:HB3	1:G:180:PRO:HA	1.94	0.48
1:F:230:SER:HG	1:G:231:GLN:HB2	1.79	0.48
1:G:232:GLY:O	1:H:234:PRO:HD3	2.13	0.48
1:G:245:SER:N	1:H:246:GLN:O	2.46	0.48
1:L:201:GLN:C	1:M:201:GLN:HA	2.39	0.48
1:L:226:GLY:C	1:M:222:GLN:HB3	2.39	0.48
1:L:263:ALA:HB1	1:L:266:LEU:CD1	2.40	0.48
1:M:247:GLY:O	1:M:248:ALA:CB	2.61	0.48
1:M:266:LEU:HG	1:M:266:LEU:O	2.14	0.48
1:2:262:GLY:HA3	1:3:264:PRO:HD2	1.94	0.48
1:V:191:LEU:O	1:W:191:LEU:HD13	2.14	0.48
1:X:201:GLN:O	1:B:201:GLN:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:ALA:H	1:B:182:ALA:HA	1.78	0.48
1:C:227:ALA:HB3	1:E:225:PRO:CA	2.42	0.48
1:E:222:GLN:CA	1:J:236:LEU:HD21	2.28	0.48
1:F:195:PRO:HD2	1:H:195:PRO:HD2	1.95	0.48
1:F:229:GLY:O	1:G:228:PRO:HB3	2.13	0.48
1:H:201:GLN:HG2	1:H:202:GLY:H	1.78	0.48
1:I:205:GLY:H	1:K:204:PRO:HB3	1.79	0.48
1:I:255:PRO:O	1:K:256:GLY:HA3	2.14	0.48
1:J:216:GLN:HB3	1:Z:220:GLY:O	2.14	0.48
1:K:254:ALA:HB1	1:M:266:LEU:HD21	1.96	0.48
1:L:208:GLY:O	1:L:209:ALA:HB3	2.13	0.48
1:L:264:PRO:HD3	1:M:261:GLN:CB	2.43	0.48
1:M:240:PRO:CA	1:N:241:GLY:HA3	2.42	0.48
1:O:179:ALA:O	1:P:183:PRO:HD2	2.13	0.48
1:O:192:GLN:HB2	1:P:194:ALA:HB3	1.96	0.48
1:P:208:GLY:H	1:Q:207:GLN:HG3	1.78	0.48
1:Y:207:GLN:HB2	1:1:208:GLY:O	2.14	0.48
1:Y:238:GLY:O	1:Z:243:PRO:HD3	2.13	0.48
1:Y:258:PRO:HB2	1:1:259:GLY:C	2.39	0.48
1:Z:238:GLY:HA2	1:2:251:LEU:HD21	1.96	0.48
1:2:235:GLY:HA2	1:4:237:GLN:H	1.79	0.48
1:2:260:SER:HB3	1:3:264:PRO:CD	2.34	0.48
1:4:251:LEU:CD2	1:4:255:PRO:HG2	2.43	0.48
1:R:184:GLY:N	1:T:182:ALA:O	2.40	0.48
1:R:215:SER:N	1:S:215:SER:OG	2.47	0.48
1:U:198:PRO:HG2	1:V:198:PRO:CG	2.37	0.48
1:U:242:ALA:HB3	1:W:246:GLN:CD	2.39	0.48
1:V:205:GLY:HA3	1:W:206:LEU:CD2	2.43	0.48
1:X:161:LEU:HG	1:J:194:ALA:HB1	1.94	0.48
1:A:223:GLY:HA3	1:K:252:GLN:OE1	2.13	0.48
1:D:228:PRO:HG2	1:F:239:ALA:HB2	1.94	0.48
1:G:197:ALA:C	1:H:198:PRO:HD2	2.38	0.48
1:G:236:LEU:C	1:H:239:ALA:HB3	2.38	0.48
1:I:185:SER:CB	1:J:189:PRO:HD3	2.33	0.48
1:I:196:GLY:HA3	1:K:198:PRO:HD2	1.96	0.48
1:I:231:GLN:OE1	1:1:239:ALA:HB2	2.13	0.48
1:J:220:GLY:C	1:K:221:LEU:HB3	2.38	0.48
1:L:243:PRO:HA	1:M:240:PRO:N	2.29	0.48
1:L:246:GLN:CA	1:M:246:GLN:HG3	2.43	0.48
1:L:249:PRO:HB2	1:N:252:GLN:CB	2.36	0.48
1:P:180:PRO:CG	1:Q:176:LEU:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:207:GLN:HB3	1:1:210:PRO:CD	2.43	0.48
1:Y:236:LEU:C	1:1:239:ALA:HA	2.39	0.48
1:1:212:ALA:CB	1:1:216:GLN:HB2	2.40	0.48
1:2:234:PRO:HA	1:3:235:GLY:O	2.14	0.48
1:2:252:GLN:HG3	1:4:256:GLY:C	2.38	0.48
1:3:227:ALA:O	1:4:230:SER:CA	2.61	0.48
1:R:236:LEU:CB	1:T:239:ALA:HA	2.44	0.48
1:R:239:ALA:HB1	1:R:243:PRO:HB3	1.96	0.48
1:S:187:GLY:HA2	1:T:187:GLY:HA2	1.89	0.48
1:S:207:GLN:OE1	1:T:204:PRO:HG3	2.14	0.48
1:S:221:LEU:HB2	1:T:221:LEU:CB	2.44	0.48
1:X:159:PRO:HG3	1:J:189:PRO:CG	2.43	0.47
1:X:221:LEU:CD1	1:B:220:GLY:HA2	2.35	0.47
1:B:225:PRO:CG	1:2:273:PRO:HA	2.41	0.47
1:C:219:PRO:HD2	1:E:218:ALA:HB2	1.96	0.47
1:D:180:PRO:HD3	1:K:192:GLN:OE1	2.14	0.47
1:D:218:ALA:O	1:E:220:GLY:HA2	2.14	0.47
1:G:209:ALA:HB1	1:G:210:PRO:CD	2.44	0.47
1:G:216:GLN:CD	1:H:218:ALA:HB3	2.39	0.47
1:L:201:GLN:HA	1:M:202:GLY:N	2.29	0.47
1:L:204:PRO:HG3	1:N:207:GLN:HE22	1.78	0.47
1:M:204:PRO:HD2	1:N:204:PRO:CB	2.42	0.47
1:M:215:SER:HB2	1:N:215:SER:CA	2.43	0.47
1:M:249:PRO:O	1:N:251:LEU:HD12	2.14	0.47
1:O:194:ALA:HB1	1:S:209:ALA:O	2.14	0.47
1:P:210:PRO:HA	1:Q:210:PRO:N	2.28	0.47
1:R:229:GLY:CA	1:S:231:GLN:HA	2.44	0.47
1:R:236:LEU:C	1:R:237:GLN:HG3	2.39	0.47
1:S:192:GLN:HG3	1:T:189:PRO:HG2	1.92	0.47
1:U:227:ALA:O	1:W:224:ALA:CA	2.62	0.47
1:V:191:LEU:O	1:V:191:LEU:HD12	2.14	0.47
1:X:171:GLN:HG3	1:B:171:GLN:NE2	2.29	0.47
1:X:222:GLN:HG2	1:A:218:ALA:N	2.29	0.47
1:C:196:GLY:HA2	1:E:197:ALA:O	2.14	0.47
1:C:201:GLN:N	1:E:201:GLN:O	2.45	0.47
1:G:188:ALA:HA	1:H:190:GLY:H	1.78	0.47
1:G:207:GLN:NE2	1:H:206:LEU:CB	2.78	0.47
1:G:245:SER:HB3	1:H:246:GLN:O	2.14	0.47
1:K:208:GLY:O	1:K:210:PRO:HD3	2.13	0.47
1:M:198:PRO:HD3	1:N:199:GLY:N	2.29	0.47
1:Y:229:GLY:H	1:V:221:LEU:HD21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:250:GLY:H	1:W:247:GLY:HA2	1.79	0.47
1:Z:221:LEU:HG	1:Z:222:GLN:O	2.14	0.47
1:Z:245:SER:C	1:1:245:SER:HA	2.40	0.47
1:1:252:GLN:CG	1:1:255:PRO:HG3	2.39	0.47
1:R:208:GLY:HA3	1:T:209:ALA:CA	2.42	0.47
1:U:200:SER:HB2	1:V:201:GLN:NE2	2.29	0.47
1:X:160:GLY:C	1:A:161:LEU:HD13	2.39	0.47
1:X:167:ALA:HB1	1:A:169:GLY:CA	2.38	0.47
1:A:198:PRO:O	1:K:230:SER:N	2.48	0.47
1:C:191:LEU:HG	1:E:190:GLY:O	2.14	0.47
1:C:222:GLN:HG2	1:D:217:GLY:O	2.15	0.47
1:C:223:GLY:H	1:D:219:PRO:HA	1.77	0.47
1:D:167:ALA:H	1:E:170:SER:HA	1.79	0.47
1:F:193:GLY:CA	1:H:195:PRO:HD3	2.44	0.47
1:F:218:ALA:CB	1:H:218:ALA:HA	2.44	0.47
1:G:221:LEU:HG	1:G:222:GLN:H	1.79	0.47
1:L:229:GLY:N	1:M:228:PRO:HG3	2.29	0.47
1:L:231:GLN:OE1	1:M:229:GLY:CA	2.62	0.47
1:L:243:PRO:CA	1:M:240:PRO:HD2	2.44	0.47
1:M:229:GLY:O	1:N:231:GLN:HA	2.14	0.47
1:Y:198:PRO:CG	1:1:198:PRO:HG2	2.44	0.47
1:Y:228:PRO:CA	1:V:221:LEU:HD22	2.45	0.47
1:Y:248:ALA:HB3	1:W:245:SER:HA	1.96	0.47
1:Y:248:ALA:HB3	1:W:245:SER:CA	2.44	0.47
1:1:248:ALA:C	1:1:250:GLY:H	2.23	0.47
1:2:232:GLY:CA	1:4:234:PRO:HG2	2.44	0.47
1:2:255:PRO:O	1:3:259:GLY:HA3	2.14	0.47
1:R:207:GLN:H	1:T:206:LEU:HB3	1.79	0.47
1:U:203:ALA:HB1	1:V:206:LEU:CD2	2.42	0.47
1:V:180:PRO:O	1:W:180:PRO:HD3	2.14	0.47
1:A:162:GLN:HA	1:3:210:PRO:CB	2.45	0.47
1:A:188:ALA:CB	1:J:219:PRO:HG3	2.43	0.47
1:C:180:PRO:HG2	1:E:180:PRO:HG2	1.95	0.47
1:C:191:LEU:HD21	1:J:208:GLY:CA	2.43	0.47
1:C:222:GLN:HG3	1:D:216:GLN:CD	2.38	0.47
1:D:212:ALA:C	1:E:213:PRO:HB2	2.39	0.47
1:F:191:LEU:C	1:G:192:GLN:HA	2.40	0.47
1:F:222:GLN:NE2	1:H:218:ALA:O	2.46	0.47
1:G:207:GLN:HA	1:H:210:PRO:CG	2.43	0.47
1:J:237:GLN:OE1	1:K:239:ALA:HB1	2.15	0.47
1:K:207:GLN:HE22	1:N:219:PRO:HG3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:237:GLN:CG	1:N:236:LEU:HB3	2.45	0.47
1:O:176:LEU:H	1:P:177:GLN:HB2	1.79	0.47
1:Y:195:PRO:HA	1:1:195:PRO:N	2.29	0.47
1:Y:202:GLY:O	1:1:202:GLY:N	2.47	0.47
1:Y:207:GLN:O	1:Z:210:PRO:CB	2.62	0.47
1:Z:239:ALA:HA	1:2:248:ALA:CB	2.43	0.47
1:2:263:ALA:HB2	1:4:263:ALA:CB	2.37	0.47
1:R:226:GLY:HA3	1:T:230:SER:CB	2.41	0.47
1:T:227:ALA:CB	1:T:228:PRO:CD	2.91	0.47
1:U:193:GLY:H	1:W:194:ALA:HA	1.78	0.47
1:X:154:GLY:HA2	1:B:156:GLN:CB	2.40	0.47
1:X:221:LEU:HB3	1:B:221:LEU:H	1.80	0.47
1:C:226:GLY:HA2	1:E:224:ALA:C	2.39	0.47
1:D:209:ALA:CB	1:E:212:ALA:HB2	2.45	0.47
1:E:209:ALA:CA	1:J:224:ALA:HB3	2.45	0.47
1:O:188:ALA:O	1:P:190:GLY:N	2.46	0.47
1:P:217:GLY:N	1:Q:216:GLN:O	2.32	0.47
1:Q:215:SER:HB3	1:Q:218:ALA:CB	2.30	0.47
1:Y:207:GLN:HA	1:Z:210:PRO:HD3	1.93	0.47
1:Y:234:PRO:HB3	1:Z:235:GLY:C	2.39	0.47
1:Z:234:PRO:HG2	1:W:228:PRO:HA	1.96	0.47
1:4:275:SER:C	1:4:276:GLN:HG3	2.40	0.47
1:R:198:PRO:CA	1:T:200:SER:HB2	2.41	0.47
1:R:207:GLN:N	1:T:206:LEU:HB3	2.30	0.47
1:R:231:GLN:N	1:S:230:SER:O	2.47	0.47
1:X:185:SER:OG	1:X:188:ALA:HB3	2.15	0.47
1:X:190:GLY:O	1:A:191:LEU:CB	2.63	0.47
1:X:202:GLY:HA3	1:A:201:GLN:NE2	2.29	0.47
1:X:222:GLN:HE22	1:A:216:GLN:HG2	1.80	0.47
1:C:192:GLN:HB3	1:E:193:GLY:C	2.39	0.47
1:C:197:ALA:O	1:I:213:PRO:HB3	2.14	0.47
1:D:207:GLN:CA	1:E:210:PRO:HG3	2.43	0.47
1:D:236:LEU:O	1:E:238:GLY:HA3	2.15	0.47
1:F:187:GLY:H	1:G:187:GLY:HA3	1.79	0.47
1:F:216:GLN:HG3	1:F:217:GLY:H	1.78	0.47
1:F:224:ALA:HB2	1:H:221:LEU:CD2	2.45	0.47
1:I:219:PRO:CB	1:J:220:GLY:HA3	2.44	0.47
1:J:243:PRO:HB3	1:Z:249:PRO:HB2	1.97	0.47
1:L:199:GLY:O	1:N:200:SER:HA	2.14	0.47
1:L:235:GLY:HA2	1:L:237:GLN:OE1	2.15	0.47
1:L:255:PRO:HD3	1:M:253:GLY:CA	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:212:ALA:O	1:N:215:SER:OG	2.15	0.47
1:O:192:GLN:HB2	1:P:194:ALA:O	2.14	0.47
1:O:216:GLN:HG3	1:O:219:PRO:CG	2.44	0.47
1:Y:212:ALA:H	1:1:213:PRO:HD2	1.78	0.47
1:Z:213:PRO:O	1:1:212:ALA:HB2	2.14	0.47
1:Z:236:LEU:HD13	1:1:240:PRO:HG2	1.96	0.47
1:1:256:GLY:O	1:1:258:PRO:HD3	2.13	0.47
1:2:243:PRO:HD3	1:4:244:GLY:CA	2.41	0.47
1:3:237:GLN:HB2	1:4:239:ALA:CB	2.45	0.47
1:3:246:GLN:HG3	1:3:249:PRO:HD2	1.96	0.47
1:R:212:ALA:CA	1:W:225:PRO:HD3	2.44	0.47
1:T:237:GLN:CG	1:T:238:GLY:N	2.77	0.47
1:X:164:ALA:HB3	1:X:165:PRO:HD3	1.97	0.47
1:X:186:GLN:HB3	1:B:188:ALA:C	2.40	0.47
1:A:162:GLN:HB3	1:B:165:PRO:HB3	1.97	0.47
1:A:162:GLN:CA	1:3:210:PRO:HB3	2.45	0.47
1:A:204:PRO:HB3	1:B:206:LEU:HD22	1.97	0.47
1:A:210:PRO:HA	1:B:213:PRO:CD	2.21	0.47
1:C:191:LEU:CD1	1:E:191:LEU:HA	2.45	0.47
1:C:198:PRO:HD2	1:D:197:ALA:C	2.40	0.47
1:D:228:PRO:CG	1:G:237:GLN:HB3	2.45	0.47
1:E:171:GLN:HB3	1:K:186:GLN:CB	2.44	0.47
1:E:190:GLY:HA3	1:J:207:GLN:HG2	1.96	0.47
1:H:218:ALA:HB1	1:H:219:PRO:HD2	1.95	0.47
1:I:233:ALA:HA	1:Y:237:GLN:NE2	2.24	0.47
1:I:252:GLN:CG	1:K:249:PRO:HA	2.44	0.47
1:J:227:ALA:HB3	1:K:229:GLY:HA2	1.95	0.47
1:J:246:GLN:CA	1:K:246:GLN:HA	2.36	0.47
1:K:192:GLN:HB3	1:K:195:PRO:HG3	1.94	0.47
1:L:256:GLY:O	1:L:257:ALA:HB2	2.15	0.47
1:L:258:PRO:CB	1:N:260:SER:HA	2.43	0.47
1:O:206:LEU:HD13	1:1:239:ALA:H	1.80	0.47
1:P:210:PRO:HG3	1:Q:206:LEU:HG	1.97	0.47
1:Q:212:ALA:O	1:Q:213:PRO:C	2.57	0.47
1:Y:204:PRO:CA	1:1:204:PRO:HB3	2.45	0.47
1:Y:249:PRO:HD2	1:Z:251:LEU:HD21	1.96	0.47
1:Y:250:GLY:CA	1:Z:251:LEU:HD12	2.34	0.47
1:Z:215:SER:N	1:1:212:ALA:HB1	2.29	0.47
1:Z:215:SER:CA	1:1:212:ALA:HB1	2.45	0.47
1:2:207:GLN:HA	1:4:207:GLN:CB	2.45	0.47
1:2:209:ALA:N	1:3:211:GLY:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:217:GLY:O	1:4:222:GLN:HB2	2.14	0.47
1:2:221:LEU:N	1:3:222:GLN:OE1	2.48	0.47
1:2:228:PRO:CA	1:4:230:SER:HA	2.43	0.47
1:2:244:GLY:CA	1:3:244:GLY:HA2	2.36	0.47
1:3:236:LEU:HD12	1:4:237:GLN:CG	2.44	0.47
1:R:205:GLY:HA3	1:S:205:GLY:O	2.14	0.47
1:R:212:ALA:N	1:T:212:ALA:HA	2.29	0.47
1:S:233:ALA:HB1	1:V:249:PRO:CD	2.45	0.47
1:U:191:LEU:HG	1:U:192:GLN:N	2.29	0.47
1:U:206:LEU:HD23	1:U:208:GLY:H	1.77	0.47
1:U:254:ALA:N	1:V:252:GLN:HB3	2.29	0.47
1:W:233:ALA:CB	1:W:236:LEU:HD23	2.45	0.47
1:X:206:LEU:CD1	1:C:220:GLY:HA3	2.45	0.47
1:X:210:PRO:HD3	1:A:207:GLN:CG	2.45	0.47
1:C:230:SER:OG	1:E:230:SER:N	2.48	0.47
1:E:221:LEU:HD12	1:E:222:GLN:H	1.79	0.47
1:H:216:GLN:OE1	1:H:216:GLN:HA	2.13	0.47
1:I:213:PRO:CB	1:K:213:PRO:HG2	2.43	0.47
1:I:224:ALA:CA	1:1:233:ALA:O	2.56	0.47
1:J:204:PRO:C	1:K:203:ALA:HA	2.39	0.47
1:J:211:GLY:H	1:K:210:PRO:HG2	1.80	0.47
1:L:219:PRO:HG2	1:M:215:SER:CA	2.45	0.47
1:L:219:PRO:HB2	1:M:215:SER:O	2.15	0.47
1:L:226:GLY:HA3	1:N:224:ALA:H	1.73	0.47
1:N:221:LEU:HD12	1:N:222:GLN:H	1.78	0.47
1:P:203:ALA:N	1:Q:201:GLN:HB2	2.30	0.47
1:P:216:GLN:O	1:P:217:GLY:C	2.57	0.47
1:Y:235:GLY:HA2	1:1:237:GLN:C	2.39	0.47
1:Y:249:PRO:CD	1:Z:251:LEU:HD21	2.45	0.47
1:Z:201:GLN:HB3	1:1:200:SER:HA	1.95	0.47
1:Z:213:PRO:HB3	1:1:216:GLN:NE2	2.30	0.47
1:Z:236:LEU:C	1:Z:236:LEU:HD12	2.40	0.47
1:Z:257:ALA:CB	1:W:251:LEU:HD12	2.44	0.47
1:R:222:GLN:HE22	1:T:228:PRO:HD3	1.80	0.47
1:R:234:PRO:HA	1:T:236:LEU:C	2.39	0.47
1:X:203:ALA:HB2	1:B:203:ALA:HB1	1.96	0.47
1:A:221:LEU:CA	1:K:251:LEU:HD12	2.44	0.47
1:C:198:PRO:HG3	1:E:199:GLY:H	1.77	0.47
1:D:224:ALA:O	1:E:226:GLY:N	2.45	0.47
1:E:231:GLN:NE2	1:F:242:ALA:O	2.42	0.47
1:K:254:ALA:CB	1:K:255:PRO:CD	2.89	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:252:GLN:HB3	1:N:255:PRO:HD3	1.97	0.47
1:O:182:ALA:HB3	1:P:184:GLY:H	1.80	0.47
1:P:176:LEU:O	1:Q:173:ALA:HA	2.15	0.47
1:P:219:PRO:HD3	1:Q:219:PRO:O	2.15	0.47
1:Z:249:PRO:HD3	1:1:246:GLN:OE1	2.14	0.47
1:3:211:GLY:O	1:3:212:ALA:CB	2.63	0.47
1:4:248:ALA:HB3	1:4:249:PRO:HD3	1.97	0.47
1:R:222:GLN:HA	1:T:227:ALA:HB2	1.96	0.47
1:U:194:ALA:HA	1:V:193:GLY:CA	2.44	0.47
1:U:204:PRO:HD2	1:V:206:LEU:CD1	2.45	0.47
1:U:246:GLN:N	1:V:245:SER:HB2	2.29	0.47
1:X:205:GLY:HA3	1:A:204:PRO:O	2.15	0.47
1:A:222:GLN:O	1:A:225:PRO:HG3	2.14	0.47
1:B:179:ALA:N	1:2:221:LEU:HD11	2.30	0.47
1:C:182:ALA:O	1:D:183:PRO:HG3	2.14	0.47
1:C:222:GLN:N	1:C:222:GLN:CD	2.73	0.47
1:C:227:ALA:HB1	1:C:228:PRO:CD	2.45	0.47
1:C:227:ALA:O	1:E:226:GLY:HA3	2.15	0.47
1:D:207:GLN:HG2	1:E:208:GLY:C	2.40	0.47
1:D:223:GLY:HA2	1:K:240:PRO:C	2.40	0.47
1:F:191:LEU:HB2	1:G:192:GLN:N	2.29	0.47
1:I:190:GLY:O	1:N:201:GLN:HA	2.14	0.47
1:I:191:LEU:C	1:K:191:LEU:HB2	2.39	0.47
1:J:252:GLN:HB3	1:1:256:GLY:HA2	1.96	0.47
1:M:263:ALA:HB1	1:N:267:GLN:N	2.30	0.47
1:O:171:GLN:HA	1:P:173:ALA:CB	2.34	0.47
1:O:217:GLY:N	1:P:218:ALA:HA	2.29	0.47
1:O:231:GLN:HG2	1:P:231:GLN:O	2.14	0.47
1:Y:195:PRO:CB	1:Z:198:PRO:HD3	2.45	0.47
1:Y:203:ALA:HB1	1:1:203:ALA:O	2.15	0.47
1:Y:204:PRO:HD2	1:1:204:PRO:CG	2.45	0.47
1:Y:228:PRO:HA	1:1:229:GLY:O	2.15	0.47
1:Z:201:GLN:HB3	1:1:201:GLN:N	2.27	0.47
1:2:269:ALA:HA	1:3:273:PRO:HA	1.95	0.47
1:3:217:GLY:C	1:4:219:PRO:HD2	2.40	0.47
1:U:187:GLY:HA2	1:W:186:GLN:HB2	1.94	0.47
1:U:214:GLY:HA3	1:U:216:GLN:OE1	2.15	0.47
1:U:248:ALA:HA	1:W:249:PRO:HD2	1.97	0.47
1:D:176:LEU:HD12	1:H:189:PRO:HD2	1.96	0.46
1:D:203:ALA:O	1:D:206:LEU:HD23	2.16	0.46
1:G:197:ALA:O	1:H:200:SER:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:203:ALA:HB2	1:Z:210:PRO:CB	2.45	0.46
1:I:224:ALA:CB	1:1:233:ALA:HB3	2.44	0.46
1:J:208:GLY:HA3	1:K:210:PRO:HD3	1.96	0.46
1:L:240:PRO:HB3	1:N:237:GLN:CD	2.39	0.46
1:M:222:GLN:O	1:M:223:GLY:C	2.57	0.46
1:O:165:PRO:HD2	1:Q:165:PRO:HA	1.97	0.46
1:O:192:GLN:HA	1:Q:192:GLN:HB3	1.96	0.46
1:P:216:GLN:CG	1:Q:217:GLY:HA3	2.42	0.46
1:Y:226:GLY:HA3	1:1:228:PRO:O	2.16	0.46
1:Y:239:ALA:H	1:1:241:GLY:HA3	1.78	0.46
1:Z:206:LEU:HD22	1:1:207:GLN:HA	1.97	0.46
1:2:227:ALA:O	1:4:230:SER:HA	2.15	0.46
1:2:229:GLY:O	1:4:231:GLN:HB2	2.14	0.46
1:R:181:GLY:N	1:S:180:PRO:O	2.47	0.46
1:R:225:PRO:O	1:T:228:PRO:CB	2.63	0.46
1:R:234:PRO:HG3	1:T:234:PRO:HG2	1.96	0.46
1:U:212:ALA:HB2	1:V:211:GLY:C	2.39	0.46
1:U:231:GLN:H	1:V:228:PRO:HB3	1.80	0.46
1:X:158:ALA:HB1	1:A:158:ALA:HB2	1.97	0.46
1:X:219:PRO:HD2	1:A:216:GLN:NE2	2.30	0.46
1:C:204:PRO:HG2	1:D:203:ALA:HA	1.97	0.46
1:F:187:GLY:CA	1:H:187:GLY:HA2	2.45	0.46
1:F:212:ALA:HB3	1:F:216:GLN:CD	2.40	0.46
1:F:248:ALA:O	1:G:248:ALA:HA	2.15	0.46
1:J:188:ALA:HB3	1:K:189:PRO:HD3	1.96	0.46
1:L:225:PRO:CG	1:M:220:GLY:O	2.64	0.46
1:L:248:ALA:O	1:M:247:GLY:CA	2.64	0.46
1:O:186:GLN:C	1:Q:185:SER:HA	2.40	0.46
1:O:190:GLY:H	1:Q:189:PRO:HA	1.80	0.46
1:Y:207:GLN:NE2	1:1:207:GLN:O	2.49	0.46
1:Z:213:PRO:HD2	1:1:211:GLY:CA	2.45	0.46
1:Z:215:SER:HA	1:1:216:GLN:CA	2.45	0.46
1:Z:251:LEU:HD13	1:1:248:ALA:C	2.35	0.46
1:2:240:PRO:HD2	1:4:243:PRO:C	2.40	0.46
1:2:255:PRO:O	1:3:261:GLN:NE2	2.47	0.46
1:R:219:PRO:N	1:U:234:PRO:HB3	2.30	0.46
1:S:213:PRO:HD2	1:T:211:GLY:HA3	1.97	0.46
1:U:182:ALA:H	1:W:183:PRO:HA	1.79	0.46
1:V:206:LEU:H	1:W:206:LEU:HA	1.79	0.46
1:X:158:ALA:HB2	1:B:160:GLY:O	2.15	0.46
1:X:171:GLN:HA	1:B:171:GLN:HE22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:185:SER:N	1:A:186:GLN:HG2	2.31	0.46
1:A:182:ALA:O	1:B:183:PRO:HD2	2.16	0.46
1:F:186:GLN:HB3	1:G:188:ALA:N	2.31	0.46
1:F:197:ALA:HA	1:G:198:PRO:CD	2.44	0.46
1:I:195:PRO:HA	1:J:198:PRO:CB	2.46	0.46
1:J:237:GLN:CD	1:J:240:PRO:HB3	2.40	0.46
1:L:216:GLN:CG	1:M:213:PRO:HD3	2.44	0.46
1:L:249:PRO:HB2	1:N:252:GLN:H	1.80	0.46
1:N:251:LEU:HB3	1:N:253:GLY:O	2.15	0.46
1:O:169:GLY:C	1:Q:169:GLY:HA3	2.39	0.46
1:O:211:GLY:HA3	1:P:214:GLY:CA	2.45	0.46
1:O:222:GLN:C	1:P:223:GLY:HA2	2.39	0.46
1:Y:234:PRO:HG3	1:2:246:GLN:HE21	1.80	0.46
1:Y:236:LEU:HB2	1:Z:240:PRO:CG	2.45	0.46
1:Y:240:PRO:HA	1:Z:242:ALA:O	2.16	0.46
1:Y:255:PRO:N	1:Z:258:PRO:HD2	2.31	0.46
1:Z:258:PRO:HB3	1:4:270:PRO:CB	2.40	0.46
1:3:241:GLY:C	1:3:243:PRO:HD3	2.40	0.46
1:R:180:PRO:HG3	1:S:180:PRO:CG	2.35	0.46
1:U:207:GLN:HB3	1:W:207:GLN:CG	2.45	0.46
1:U:252:GLN:OE1	1:V:252:GLN:NE2	2.48	0.46
1:V:206:LEU:HD13	1:W:205:GLY:O	2.14	0.46
1:V:218:ALA:C	1:W:219:PRO:HB3	2.39	0.46
1:A:168:PRO:N	1:K:198:PRO:HB3	2.30	0.46
1:A:178:GLY:HA3	1:B:180:PRO:CD	2.41	0.46
1:A:207:GLN:N	1:B:206:LEU:HD12	2.31	0.46
1:C:203:ALA:O	1:E:204:PRO:O	2.34	0.46
1:D:186:GLN:HA	1:E:185:SER:CB	2.38	0.46
1:D:189:PRO:CB	1:H:202:GLY:HA2	2.45	0.46
1:D:196:GLY:C	1:H:209:ALA:HB1	2.40	0.46
1:D:211:GLY:CA	1:E:212:ALA:HA	2.42	0.46
1:G:207:GLN:CG	1:H:206:LEU:HB2	2.45	0.46
1:G:240:PRO:O	1:H:244:GLY:N	2.49	0.46
1:J:236:LEU:HD23	1:K:240:PRO:CD	2.45	0.46
1:L:235:GLY:HA3	1:N:234:PRO:HA	1.97	0.46
1:L:237:GLN:HG2	1:N:236:LEU:CB	2.45	0.46
1:O:191:LEU:H	1:P:193:GLY:H	1.63	0.46
1:P:218:ALA:O	1:Q:221:LEU:HD23	2.15	0.46
1:Q:207:GLN:O	1:Q:210:PRO:HD3	2.15	0.46
1:Z:204:PRO:O	1:1:204:PRO:CG	2.64	0.46
1:R:237:GLN:HA	1:S:236:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:192:GLN:HB2	1:T:192:GLN:N	2.28	0.46
1:X:170:SER:N	1:B:171:GLN:OE1	2.49	0.46
1:X:186:GLN:N	1:A:185:SER:O	2.47	0.46
1:X:201:GLN:CD	1:B:203:ALA:HB2	2.40	0.46
1:X:222:GLN:HB2	1:A:218:ALA:O	2.15	0.46
1:A:208:GLY:HA2	1:I:236:LEU:HD12	1.98	0.46
1:B:225:PRO:HB2	1:2:273:PRO:HA	1.96	0.46
1:D:180:PRO:HB2	1:I:195:PRO:HB3	1.98	0.46
1:F:180:PRO:HA	1:G:180:PRO:CA	2.46	0.46
1:F:190:GLY:O	1:H:191:LEU:HA	2.15	0.46
1:F:194:ALA:HB3	1:F:195:PRO:CD	2.38	0.46
1:G:243:PRO:CA	1:H:244:GLY:HA3	2.43	0.46
1:H:191:LEU:HD13	1:H:192:GLN:O	2.16	0.46
1:I:221:LEU:HD12	1:Z:228:PRO:HD2	1.97	0.46
1:J:219:PRO:HD2	1:K:219:PRO:O	2.15	0.46
1:L:222:GLN:HB2	1:M:219:PRO:CB	2.45	0.46
1:M:234:PRO:O	1:N:238:GLY:N	2.48	0.46
1:Q:206:LEU:HD21	1:Q:210:PRO:HG3	1.97	0.46
1:Y:191:LEU:O	1:Z:191:LEU:HG	2.15	0.46
1:Y:195:PRO:CD	1:1:195:PRO:HD2	2.46	0.46
1:Y:204:PRO:HD2	1:1:204:PRO:CA	2.45	0.46
1:2:217:GLY:O	1:4:222:GLN:NE2	2.34	0.46
1:2:227:ALA:N	1:4:230:SER:HB2	2.29	0.46
1:2:273:PRO:CB	1:4:271:GLY:HA2	2.46	0.46
1:3:216:GLN:HG3	1:4:219:PRO:HD3	1.98	0.46
1:R:225:PRO:O	1:R:226:GLY:C	2.58	0.46
1:S:231:GLN:CB	1:U:244:GLY:CA	2.84	0.46
1:X:182:ALA:N	1:B:183:PRO:HG2	2.30	0.46
1:B:225:PRO:CB	1:2:273:PRO:HA	2.46	0.46
1:D:180:PRO:CG	1:I:195:PRO:HG3	2.42	0.46
1:E:217:GLY:O	1:E:218:ALA:HB2	2.16	0.46
1:F:202:GLY:HA2	1:G:204:PRO:CG	2.37	0.46
1:F:204:PRO:HG2	1:H:207:GLN:CD	2.40	0.46
1:F:205:GLY:C	1:F:206:LEU:HD22	2.40	0.46
1:J:191:LEU:HB2	1:K:193:GLY:HA3	1.97	0.46
1:J:197:ALA:HA	1:K:196:GLY:HA3	1.94	0.46
1:L:225:PRO:HD2	1:N:222:GLN:CA	2.45	0.46
1:L:241:GLY:HA3	1:N:243:PRO:CB	2.45	0.46
1:M:219:PRO:HA	1:N:221:LEU:H	1.78	0.46
1:M:235:GLY:CA	1:N:238:GLY:HA3	2.46	0.46
1:Y:251:LEU:HD22	1:U:249:PRO:CD	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:198:PRO:CB	1:1:198:PRO:HG3	2.39	0.46
1:Z:238:GLY:O	1:2:251:LEU:HD21	2.14	0.46
1:2:219:PRO:HA	1:3:220:GLY:HA3	1.97	0.46
1:2:272:ALA:N	1:3:272:ALA:HB3	2.31	0.46
1:2:273:PRO:CG	1:4:271:GLY:HA2	2.45	0.46
1:3:266:LEU:HG	1:3:267:GLN:H	1.81	0.46
1:3:269:ALA:HB3	1:4:269:ALA:N	2.31	0.46
1:R:219:PRO:HG2	1:U:234:PRO:HG3	1.97	0.46
1:R:241:GLY:O	1:S:246:GLN:HB3	2.16	0.46
1:S:183:PRO:HB2	1:S:186:GLN:HE22	1.74	0.46
1:T:175:GLY:O	1:T:177:GLN:NE2	2.49	0.46
1:U:201:GLN:HA	1:V:202:GLY:O	2.16	0.46
1:U:203:ALA:HB3	1:W:205:GLY:H	1.80	0.46
1:V:234:PRO:HB3	1:V:237:GLN:HE21	1.80	0.46
1:X:193:GLY:N	1:A:191:LEU:HA	2.31	0.46
1:X:224:ALA:HB1	1:B:224:ALA:N	2.31	0.46
1:E:187:GLY:O	1:E:189:PRO:HD3	2.16	0.46
1:E:206:LEU:HD13	1:E:206:LEU:HA	1.81	0.46
1:F:196:GLY:C	1:G:198:PRO:HD2	2.41	0.46
1:F:216:GLN:HE21	1:H:214:GLY:HA2	1.80	0.46
1:I:237:GLN:HG3	1:J:243:PRO:HD2	1.98	0.46
1:L:260:SER:CB	1:M:258:PRO:HA	2.38	0.46
1:M:241:GLY:CA	1:N:242:ALA:HB3	2.45	0.46
1:O:184:GLY:O	1:P:187:GLY:N	2.49	0.46
1:P:173:ALA:HB1	1:Q:170:SER:O	2.15	0.46
1:Y:227:ALA:C	1:4:240:PRO:HB3	2.41	0.46
1:Z:219:PRO:C	1:1:221:LEU:HA	2.40	0.46
1:2:229:GLY:C	1:3:231:GLN:HG3	2.41	0.46
1:2:243:PRO:HB3	1:4:244:GLY:H	1.80	0.46
1:R:207:GLN:HG2	1:S:208:GLY:HA3	1.97	0.46
1:R:223:GLY:O	1:T:227:ALA:HB3	2.16	0.46
1:S:222:GLN:C	1:T:224:ALA:HB1	2.41	0.46
1:T:191:LEU:HB3	1:T:192:GLN:NE2	2.31	0.46
1:T:192:GLN:O	1:T:193:GLY:C	2.59	0.46
1:A:208:GLY:HA2	1:K:236:LEU:HD21	1.97	0.46
1:C:173:ALA:HA	1:E:175:GLY:HA3	1.96	0.46
1:D:187:GLY:HA2	1:E:189:PRO:CG	2.45	0.46
1:H:206:LEU:HD11	1:H:209:ALA:CA	2.38	0.46
1:I:195:PRO:CA	1:J:198:PRO:HB2	2.46	0.46
1:J:216:GLN:NE2	1:Y:220:GLY:CA	2.79	0.46
1:L:217:GLY:O	1:L:219:PRO:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:LEU:HA	1:M:235:GLY:CA	2.45	0.46
1:L:240:PRO:CD	1:M:238:GLY:HA3	2.46	0.46
1:M:208:GLY:N	1:N:210:PRO:HA	2.31	0.46
1:P:219:PRO:HG3	1:Q:219:PRO:CB	2.43	0.46
1:Q:226:GLY:O	1:R:236:LEU:HD11	2.15	0.46
1:Y:235:GLY:N	1:Z:236:LEU:HB3	2.31	0.46
1:Y:247:GLY:HA2	1:W:243:PRO:CG	2.46	0.46
1:Y:248:ALA:N	1:Y:249:PRO:HD3	2.31	0.46
1:3:213:PRO:HA	1:4:210:PRO:HB2	1.97	0.46
1:3:213:PRO:HB3	1:4:213:PRO:HB3	1.96	0.46
1:3:260:SER:HB2	1:4:260:SER:CB	2.43	0.46
1:R:214:GLY:CA	1:T:219:PRO:HG3	2.46	0.46
1:R:219:PRO:CA	1:S:221:LEU:N	2.78	0.46
1:R:224:ALA:HB1	1:S:227:ALA:HB3	1.98	0.46
1:U:253:GLY:HA2	1:V:252:GLN:CA	2.46	0.46
1:X:210:PRO:HD2	1:B:209:ALA:C	2.41	0.46
1:B:197:ALA:HB1	1:B:200:SER:CB	2.45	0.46
1:C:187:GLY:HA3	1:E:187:GLY:C	2.41	0.46
1:D:234:PRO:HB2	1:I:257:ALA:HB1	1.98	0.46
1:F:221:LEU:HD12	1:H:219:PRO:HG2	1.98	0.46
1:F:243:PRO:HD2	1:G:239:ALA:HA	1.97	0.46
1:G:219:PRO:HA	1:H:220:GLY:CA	2.08	0.46
1:I:191:LEU:HD12	1:N:203:ALA:H	1.81	0.46
1:I:222:GLN:OE1	1:J:225:PRO:HA	2.16	0.46
1:I:231:GLN:HA	1:J:232:GLY:N	2.31	0.46
1:L:207:GLN:O	1:N:207:GLN:NE2	2.49	0.46
1:L:251:LEU:O	1:M:250:GLY:HA3	2.16	0.46
1:N:227:ALA:O	1:N:229:GLY:N	2.47	0.46
1:O:209:ALA:HA	1:Q:206:LEU:HD23	1.98	0.46
1:O:224:ALA:CB	1:P:228:PRO:HB3	2.46	0.46
1:Y:200:SER:HB2	1:1:199:GLY:HA2	1.95	0.46
1:Y:207:GLN:C	1:1:206:LEU:HD22	2.41	0.46
1:2:266:LEU:C	1:2:267:GLN:HG2	2.40	0.46
1:3:264:PRO:HB2	1:4:264:PRO:HG3	1.97	0.46
1:R:190:GLY:O	1:T:191:LEU:HG	2.16	0.46
1:R:213:PRO:CD	1:T:213:PRO:HD2	2.46	0.46
1:T:236:LEU:O	1:T:236:LEU:HD23	2.16	0.46
1:V:195:PRO:HG3	1:W:197:ALA:N	2.30	0.46
1:A:156:GLN:HB3	1:B:160:GLY:H	1.81	0.46
1:C:221:LEU:HD12	1:E:221:LEU:HD21	1.96	0.46
1:C:227:ALA:CA	1:D:222:GLN:HB3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:188:ALA:C	1:G:188:ALA:HB2	2.41	0.46
1:F:240:PRO:HG3	1:H:237:GLN:CA	2.46	0.46
1:I:257:ALA:HB2	1:J:258:PRO:N	2.29	0.46
1:J:252:GLN:HB2	1:1:256:GLY:HA2	1.96	0.46
1:L:222:GLN:O	1:N:221:LEU:HB3	2.16	0.46
1:L:255:PRO:HA	1:N:257:ALA:HA	1.97	0.46
1:M:231:GLN:N	1:N:230:SER:O	2.49	0.46
1:M:262:GLY:O	1:M:263:ALA:CB	2.64	0.46
1:O:194:ALA:O	1:Q:194:ALA:HA	2.16	0.46
1:O:210:PRO:CG	1:Q:210:PRO:HB2	2.43	0.46
1:O:222:GLN:HB3	1:Q:226:GLY:CA	2.46	0.46
1:P:175:GLY:CA	1:Q:173:ALA:HB2	2.46	0.46
1:Y:210:PRO:HD3	1:1:210:PRO:HB3	1.97	0.46
1:Y:216:GLN:CB	1:Z:219:PRO:HD3	2.42	0.46
1:Z:235:GLY:HA3	1:2:246:GLN:NE2	2.27	0.46
1:2:252:GLN:N	1:4:251:LEU:HB3	2.31	0.46
1:A:154:GLY:CA	1:J:187:GLY:HA2	2.39	0.45
1:A:173:ALA:CB	1:I:204:PRO:HA	2.45	0.45
1:A:215:SER:HB3	1:B:215:SER:CB	2.46	0.45
1:D:179:ALA:HA	1:J:195:PRO:CG	2.46	0.45
1:E:205:GLY:HA2	1:E:207:GLN:HE22	1.82	0.45
1:F:188:ALA:O	1:G:188:ALA:HB2	2.15	0.45
1:G:189:PRO:HD2	1:H:190:GLY:H	1.81	0.45
1:G:231:GLN:HA	1:H:231:GLN:CA	2.44	0.45
1:I:251:LEU:CG	1:I:254:ALA:HB3	2.46	0.45
1:Y:207:GLN:HB3	1:1:210:PRO:HD3	1.98	0.45
1:1:249:PRO:HD2	1:1:251:LEU:HD12	1.97	0.45
1:2:212:ALA:CB	1:4:213:PRO:HA	2.44	0.45
1:B:220:GLY:N	1:K:251:LEU:HD21	2.30	0.45
1:C:195:PRO:HB3	1:E:195:PRO:C	2.41	0.45
1:E:168:PRO:HG2	1:K:185:SER:N	2.31	0.45
1:F:192:GLN:HB3	1:H:193:GLY:C	2.41	0.45
1:G:197:ALA:HB3	1:H:197:ALA:CB	2.46	0.45
1:G:246:GLN:HA	1:H:246:GLN:HG2	1.98	0.45
1:I:217:GLY:H	1:J:218:ALA:HB3	1.77	0.45
1:L:234:PRO:HG2	1:M:232:GLY:N	2.31	0.45
1:L:238:GLY:N	1:N:236:LEU:HA	2.27	0.45
1:L:256:GLY:HA2	1:M:257:ALA:H	1.81	0.45
1:2:238:GLY:CA	1:4:241:GLY:HA3	2.46	0.45
1:R:219:PRO:HG2	1:U:234:PRO:HB3	1.98	0.45
1:U:233:ALA:H	1:U:234:PRO:CD	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:196:GLY:C	1:B:197:ALA:HA	2.40	0.45
1:A:177:GLN:HG2	1:A:179:ALA:N	2.31	0.45
1:B:181:GLY:C	1:B:183:PRO:HD3	2.41	0.45
1:I:200:SER:HB2	1:L:213:PRO:CG	2.47	0.45
1:I:234:PRO:C	1:J:238:GLY:HA3	2.40	0.45
1:I:251:LEU:HB2	1:I:254:ALA:CB	2.43	0.45
1:L:249:PRO:CG	1:N:252:GLN:HB3	2.45	0.45
1:O:191:LEU:CA	1:Q:192:GLN:HB2	2.46	0.45
1:P:205:GLY:C	1:Q:207:GLN:HG2	2.41	0.45
1:P:210:PRO:CG	1:Q:210:PRO:HD2	2.46	0.45
1:Y:207:GLN:HA	1:Z:210:PRO:N	2.31	0.45
1:Y:232:GLY:O	1:Z:233:ALA:N	2.49	0.45
1:Z:203:ALA:CA	1:I:201:GLN:CB	2.90	0.45
1:Z:231:GLN:CB	1:V:225:PRO:HG2	2.45	0.45
1:2:201:GLN:OE1	1:2:203:ALA:HB3	2.16	0.45
1:R:228:PRO:HD2	1:T:228:PRO:CB	2.47	0.45
1:A:160:GLY:HA3	1:3:210:PRO:HG3	1.99	0.45
1:C:180:PRO:HG3	1:E:181:GLY:O	2.17	0.45
1:C:201:GLN:HG3	1:E:203:ALA:N	2.31	0.45
1:D:178:GLY:HA2	1:E:176:LEU:CG	2.45	0.45
1:D:198:PRO:HB3	1:E:199:GLY:C	2.41	0.45
1:E:204:PRO:O	1:E:206:LEU:N	2.49	0.45
1:F:180:PRO:CB	1:H:183:PRO:HD3	2.46	0.45
1:F:189:PRO:HD3	1:H:188:ALA:HB1	1.99	0.45
1:G:197:ALA:N	1:G:198:PRO:CD	2.79	0.45
1:J:194:ALA:O	1:J:196:GLY:N	2.43	0.45
1:J:207:GLN:O	1:K:209:ALA:N	2.50	0.45
1:J:249:PRO:CG	1:J:252:GLN:HG3	2.46	0.45
1:L:225:PRO:HG2	1:M:221:LEU:O	2.15	0.45
1:M:230:SER:C	1:N:231:GLN:HA	2.41	0.45
1:M:257:ALA:N	1:M:258:PRO:CD	2.79	0.45
1:N:260:SER:HG	1:N:263:ALA:HB3	1.79	0.45
1:O:171:GLN:HA	1:O:171:GLN:OE1	2.17	0.45
1:P:214:GLY:C	1:Q:216:GLN:HB2	2.41	0.45
1:Y:210:PRO:HD3	1:I:210:PRO:CB	2.46	0.45
1:Y:237:GLN:HB2	1:I:239:ALA:C	2.41	0.45
1:I:228:PRO:CD	1:4:238:GLY:HA3	2.47	0.45
1:2:240:PRO:HD3	1:4:242:ALA:O	2.16	0.45
1:R:207:GLN:NE2	1:S:209:ALA:O	2.50	0.45
1:S:195:PRO:HD2	1:T:195:PRO:CD	2.46	0.45
1:U:235:GLY:CA	1:W:234:PRO:HD3	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:PRO:HG3	1:I:255:PRO:HB3	1.98	0.45
1:D:228:PRO:CB	1:G:237:GLN:HB3	2.46	0.45
1:F:202:GLY:C	1:G:204:PRO:HD2	2.41	0.45
1:I:244:GLY:CA	1:K:242:ALA:HB1	2.46	0.45
1:J:205:GLY:O	1:J:206:LEU:HB3	2.16	0.45
1:J:253:GLY:HA3	1:K:252:GLN:HG2	1.98	0.45
1:L:257:ALA:HB3	1:N:259:GLY:H	1.81	0.45
1:M:261:GLN:N	1:N:263:ALA:HA	2.25	0.45
1:O:165:PRO:HG2	1:P:167:ALA:N	2.32	0.45
1:O:216:GLN:HG3	1:O:219:PRO:HD3	1.99	0.45
1:P:222:GLN:CB	1:Q:225:PRO:HD2	2.45	0.45
1:Y:207:GLN:NE2	1:Z:206:LEU:HD22	2.30	0.45
1:Y:220:GLY:CA	1:Z:221:LEU:O	2.62	0.45
1:Y:255:PRO:CD	1:Z:258:PRO:HD2	2.47	0.45
1:Z:237:GLN:NE2	1:2:247:GLY:O	2.49	0.45
1:1:228:PRO:HA	1:V:218:ALA:CA	2.45	0.45
1:2:212:ALA:N	1:4:213:PRO:HA	2.31	0.45
1:3:257:ALA:O	1:4:256:GLY:CA	2.64	0.45
1:R:206:LEU:HD13	1:T:205:GLY:O	2.16	0.45
1:R:231:GLN:HG3	1:T:233:ALA:HA	1.97	0.45
1:S:221:LEU:CB	1:T:221:LEU:HB3	2.47	0.45
1:U:203:ALA:CB	1:W:205:GLY:HA3	2.46	0.45
1:U:234:PRO:HD2	1:V:230:SER:OG	2.16	0.45
1:V:240:PRO:HB2	1:W:244:GLY:CA	2.47	0.45
1:X:203:ALA:O	1:X:204:PRO:C	2.60	0.45
1:X:204:PRO:O	1:X:207:GLN:NE2	2.42	0.45
1:A:154:GLY:O	1:A:155:SER:HB2	2.17	0.45
1:D:200:SER:CB	1:H:213:PRO:HB3	2.47	0.45
1:D:203:ALA:CB	1:F:217:GLY:O	2.60	0.45
1:D:212:ALA:H	1:E:213:PRO:HD2	1.82	0.45
1:F:227:ALA:HB3	1:H:225:PRO:C	2.41	0.45
1:F:234:PRO:HG3	1:G:230:SER:OG	2.16	0.45
1:G:238:GLY:C	1:H:240:PRO:HA	2.41	0.45
1:I:205:GLY:C	1:J:206:LEU:HD13	2.41	0.45
1:I:213:PRO:CB	1:K:213:PRO:HD2	2.46	0.45
1:I:257:ALA:CB	1:J:258:PRO:HD2	2.47	0.45
1:J:253:GLY:HA3	1:K:252:GLN:HB2	1.99	0.45
1:L:229:GLY:O	1:M:228:PRO:HA	2.16	0.45
1:L:252:GLN:HG3	1:N:252:GLN:HG3	1.99	0.45
1:M:233:ALA:HB1	1:M:234:PRO:CD	2.38	0.45
1:Y:204:PRO:HG2	1:Z:203:ALA:HB1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:221:LEU:O	1:Z:223:GLY:CA	2.64	0.45
1:Z:204:PRO:O	1:1:204:PRO:HG2	2.16	0.45
1:Z:236:LEU:HD12	1:Z:237:GLN:N	2.31	0.45
1:2:238:GLY:HA2	1:4:239:ALA:O	2.16	0.45
1:2:268:GLY:O	1:2:270:PRO:HD3	2.17	0.45
1:3:213:PRO:HG3	1:4:213:PRO:N	2.31	0.45
1:S:199:GLY:CA	1:T:197:ALA:HB1	2.46	0.45
1:S:223:GLY:HA2	1:T:224:ALA:CB	2.39	0.45
1:S:226:GLY:O	1:S:228:PRO:HD3	2.16	0.45
1:S:240:PRO:HA	1:W:253:GLY:N	2.30	0.45
1:X:203:ALA:N	1:X:204:PRO:HD2	2.31	0.45
1:A:206:LEU:HD13	1:K:238:GLY:H	1.82	0.45
1:C:192:GLN:CA	1:E:193:GLY:HA2	2.47	0.45
1:F:216:GLN:O	1:H:214:GLY:HA2	2.16	0.45
1:F:225:PRO:O	1:H:223:GLY:HA2	2.17	0.45
1:G:244:GLY:CA	1:H:246:GLN:HB2	2.47	0.45
1:I:204:PRO:HB2	1:K:204:PRO:HG3	1.99	0.45
1:I:220:GLY:HA3	1:Y:224:ALA:HA	1.94	0.45
1:I:232:GLY:N	1:J:234:PRO:HD3	2.31	0.45
1:I:257:ALA:HB2	1:J:258:PRO:HD2	1.97	0.45
1:L:259:GLY:CA	1:M:260:SER:HB3	2.47	0.45
1:M:253:GLY:CA	1:N:255:PRO:HD2	2.43	0.45
1:O:207:GLN:HE21	1:Q:204:PRO:HG2	1.79	0.45
1:O:212:ALA:HB1	1:O:213:PRO:HD2	1.98	0.45
1:Y:200:SER:CB	1:1:199:GLY:HA2	2.47	0.45
1:Y:204:PRO:CD	1:1:204:PRO:HG3	2.47	0.45
1:Y:207:GLN:CA	1:Z:210:PRO:HG3	2.46	0.45
1:Z:213:PRO:CB	1:1:216:GLN:CD	2.90	0.45
1:Z:253:GLY:O	1:U:249:PRO:N	2.50	0.45
1:2:238:GLY:H	1:3:240:PRO:HA	1.80	0.45
1:3:204:PRO:CD	1:4:203:ALA:HB1	2.40	0.45
1:3:208:GLY:HA2	1:V:191:LEU:CD2	2.47	0.45
1:R:215:SER:HA	1:U:230:SER:N	2.31	0.45
1:R:228:PRO:HD2	1:T:228:PRO:HB3	1.99	0.45
1:S:200:SER:HB3	1:T:198:PRO:CG	2.47	0.45
1:S:201:GLN:O	1:T:201:GLN:HB2	2.17	0.45
1:S:213:PRO:HD2	1:T:211:GLY:N	2.31	0.45
1:S:213:PRO:O	1:T:212:ALA:N	2.46	0.45
1:U:191:LEU:HD12	1:U:192:GLN:H	1.81	0.45
1:U:202:GLY:C	1:V:203:ALA:HB2	2.42	0.45
1:U:233:ALA:CA	1:V:230:SER:HA	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:241:GLY:O	1:U:242:ALA:HB3	2.16	0.45
1:U:253:GLY:C	1:V:252:GLN:HA	2.42	0.45
1:W:229:GLY:O	1:W:231:GLN:HG2	2.17	0.45
1:X:181:GLY:HA3	1:A:181:GLY:C	2.41	0.45
1:X:186:GLN:HA	1:A:186:GLN:HA	1.99	0.45
1:D:232:GLY:HA3	1:E:234:PRO:HA	1.98	0.45
1:E:209:ALA:CB	1:J:224:ALA:HB3	2.47	0.45
1:F:224:ALA:CA	1:H:221:LEU:HB3	2.47	0.45
1:H:206:LEU:HD23	1:H:206:LEU:H	1.81	0.45
1:I:208:GLY:CA	1:J:212:ALA:HB2	2.38	0.45
1:P:219:PRO:C	1:Q:222:GLN:OE1	2.60	0.45
1:Y:212:ALA:HB1	1:Y:213:PRO:CD	2.47	0.45
1:Y:225:PRO:CD	1:Z:228:PRO:HG3	2.46	0.45
1:Y:231:GLN:HB2	1:Z:230:SER:OG	2.17	0.45
1:Y:243:PRO:O	1:V:236:LEU:HD22	2.17	0.45
1:1:251:LEU:HD12	1:1:251:LEU:N	2.32	0.45
1:R:180:PRO:CG	1:S:180:PRO:HG2	2.36	0.45
1:R:228:PRO:HG3	1:T:228:PRO:O	2.16	0.45
1:U:194:ALA:HB3	1:W:194:ALA:O	2.17	0.45
1:U:236:LEU:CD1	1:V:237:GLN:HB2	2.46	0.45
1:V:190:GLY:O	1:W:191:LEU:HB3	2.16	0.45
1:V:191:LEU:O	1:W:191:LEU:HB3	2.17	0.45
1:C:177:GLN:OE1	1:C:180:PRO:HD2	2.16	0.45
1:C:201:GLN:HB3	1:E:202:GLY:CA	2.47	0.45
1:C:224:ALA:HB2	1:E:221:LEU:CG	2.44	0.45
1:C:227:ALA:CB	1:D:222:GLN:HB3	2.47	0.45
1:F:240:PRO:CG	1:H:237:GLN:HA	2.46	0.45
1:I:192:GLN:HB2	1:K:192:GLN:CB	2.28	0.45
1:I:210:PRO:CA	1:K:210:PRO:HA	2.47	0.45
1:O:215:SER:O	1:Q:219:PRO:HG2	2.17	0.45
1:P:221:LEU:HD11	1:Q:224:ALA:HB2	1.95	0.45
1:Y:193:GLY:C	1:1:194:ALA:HA	2.41	0.45
1:Y:207:GLN:HG3	1:Z:209:ALA:CA	2.46	0.45
1:Y:228:PRO:HD3	1:1:228:PRO:HB2	1.97	0.45
1:2:212:ALA:CA	1:4:213:PRO:HA	2.46	0.45
1:2:221:LEU:HD23	1:2:222:GLN:N	2.31	0.45
1:2:263:ALA:O	1:2:264:PRO:C	2.60	0.45
1:R:208:GLY:HA3	1:T:209:ALA:CB	2.47	0.45
1:U:185:SER:H	1:V:184:GLY:HA3	1.82	0.45
1:W:233:ALA:O	1:W:236:LEU:N	2.50	0.45
1:X:165:PRO:HD3	1:B:164:ALA:C	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:GLY:CA	1:E:177:GLN:HA	2.47	0.45
1:C:178:GLY:O	1:C:179:ALA:HB2	2.17	0.45
1:C:179:ALA:CB	1:E:180:PRO:O	2.65	0.45
1:C:189:PRO:HB2	1:E:192:GLN:CD	2.42	0.45
1:C:225:PRO:O	1:D:222:GLN:HA	2.17	0.45
1:D:191:LEU:HD21	1:H:203:ALA:HB3	1.97	0.45
1:D:218:ALA:O	1:E:221:LEU:N	2.43	0.45
1:E:190:GLY:O	1:J:207:GLN:HG3	2.17	0.45
1:I:204:PRO:HD2	1:K:204:PRO:CD	2.47	0.45
1:J:236:LEU:HG	1:K:240:PRO:HD3	1.99	0.45
1:L:234:PRO:HG3	1:M:230:SER:CB	2.47	0.45
1:O:198:PRO:HG2	1:P:201:GLN:NE2	2.32	0.45
1:P:212:ALA:N	1:P:213:PRO:CD	2.79	0.45
1:Q:209:ALA:N	1:Q:210:PRO:CD	2.80	0.45
1:Y:201:GLN:N	1:1:200:SER:HB2	2.31	0.45
1:Y:207:GLN:HB3	1:Z:210:PRO:HA	1.99	0.45
1:Y:207:GLN:CB	1:1:206:LEU:HD22	2.46	0.45
1:Y:234:PRO:CG	1:2:246:GLN:NE2	2.80	0.45
1:Z:203:ALA:HB2	1:1:201:GLN:CG	2.46	0.45
1:Z:236:LEU:O	1:Z:239:ALA:CB	2.61	0.45
1:2:206:LEU:O	1:2:207:GLN:C	2.60	0.45
1:3:251:LEU:O	1:4:252:GLN:HA	2.17	0.45
1:4:268:GLY:O	1:4:269:ALA:HB3	2.17	0.45
1:U:201:GLN:NE2	1:V:204:PRO:HD2	2.32	0.45
1:U:237:GLN:O	1:U:237:GLN:HG3	2.17	0.45
1:V:222:GLN:CD	1:W:223:GLY:HA3	2.42	0.45
1:A:154:GLY:O	1:J:187:GLY:HA2	2.17	0.44
1:A:175:GLY:HA2	1:B:176:LEU:HD11	1.98	0.44
1:A:223:GLY:C	1:A:225:PRO:HD3	2.42	0.44
1:B:170:SER:HA	1:3:216:GLN:CB	2.46	0.44
1:C:237:GLN:O	1:D:236:LEU:HD22	2.17	0.44
1:D:206:LEU:CB	1:H:219:PRO:HG3	2.47	0.44
1:F:236:LEU:CD1	1:G:235:GLY:O	2.66	0.44
1:G:197:ALA:HB3	1:H:197:ALA:HB1	1.98	0.44
1:I:201:GLN:HG3	1:I:202:GLY:N	2.31	0.44
1:J:223:GLY:HA2	1:K:225:PRO:CD	2.46	0.44
1:L:237:GLN:C	1:M:236:LEU:HG	2.41	0.44
1:M:212:ALA:O	1:N:215:SER:N	2.50	0.44
1:M:224:ALA:HB3	1:N:225:PRO:CA	2.46	0.44
1:M:236:LEU:HD12	1:M:237:GLN:C	2.42	0.44
1:O:204:PRO:HG2	1:Q:204:PRO:CG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:207:GLN:C	1:Z:210:PRO:HG3	2.41	0.44
1:Z:210:PRO:HA	1:1:210:PRO:CD	2.38	0.44
1:Z:221:LEU:HB3	1:1:223:GLY:N	2.32	0.44
1:3:216:GLN:CB	1:4:217:GLY:HA2	2.47	0.44
1:3:221:LEU:CA	1:4:221:LEU:HB3	2.47	0.44
1:T:193:GLY:O	1:T:194:ALA:C	2.60	0.44
1:T:236:LEU:CD2	1:T:239:ALA:HB2	2.47	0.44
1:U:221:LEU:HB2	1:U:224:ALA:HA	1.95	0.44
1:U:222:GLN:NE2	1:U:225:PRO:HD3	2.32	0.44
1:X:179:ALA:HA	1:B:179:ALA:O	2.16	0.44
1:X:188:ALA:HB2	1:B:187:GLY:CA	2.47	0.44
1:X:210:PRO:CA	1:A:210:PRO:HG3	2.48	0.44
1:B:189:PRO:HG3	1:4:235:GLY:HA3	1.99	0.44
1:F:198:PRO:HG3	1:H:200:SER:CA	2.46	0.44
1:F:231:GLN:HB2	1:G:229:GLY:H	1.82	0.44
1:P:173:ALA:HB2	1:Q:169:GLY:HA3	1.99	0.44
1:Q:193:GLY:CA	1:Z:224:ALA:HB1	2.46	0.44
1:Y:243:PRO:C	1:V:236:LEU:HB2	2.41	0.44
1:1:233:ALA:O	1:1:234:PRO:C	2.59	0.44
1:2:216:GLN:O	1:4:222:GLN:HG2	2.17	0.44
1:U:250:GLY:HA3	1:W:252:GLN:H	1.81	0.44
1:D:207:GLN:CG	1:E:210:PRO:HG3	2.46	0.44
1:F:202:GLY:CA	1:G:204:PRO:HG3	2.39	0.44
1:I:195:PRO:HA	1:J:198:PRO:HB2	1.98	0.44
1:J:223:GLY:CA	1:K:225:PRO:HG2	2.47	0.44
1:K:246:GLN:HG3	1:Z:250:GLY:CA	2.44	0.44
1:K:255:PRO:CG	1:M:266:LEU:HD11	2.46	0.44
1:L:251:LEU:O	1:N:252:GLN:HG2	2.17	0.44
1:M:231:GLN:NE2	1:M:233:ALA:HB2	2.30	0.44
1:O:226:GLY:O	1:O:227:ALA:HB2	2.17	0.44
1:Q:211:GLY:O	1:Q:212:ALA:C	2.60	0.44
1:Y:231:GLN:C	1:1:234:PRO:HD2	2.43	0.44
1:Y:234:PRO:HB3	1:Z:235:GLY:N	2.32	0.44
1:1:228:PRO:HD2	1:4:238:GLY:CA	2.47	0.44
1:2:213:PRO:HA	1:4:214:GLY:N	2.32	0.44
1:3:222:GLN:C	1:4:224:ALA:HB1	2.43	0.44
1:4:248:ALA:O	1:4:249:PRO:C	2.61	0.44
1:R:187:GLY:HA2	1:S:189:PRO:CA	2.46	0.44
1:S:221:LEU:N	1:T:221:LEU:HD22	2.31	0.44
1:S:232:GLY:O	1:U:251:LEU:HD12	2.17	0.44
1:U:230:SER:OG	1:W:228:PRO:CG	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:236:LEU:HD22	1:W:236:LEU:HD21	1.99	0.44
1:A:162:GLN:OE1	1:B:163:GLY:HA2	2.18	0.44
1:B:218:ALA:HB1	1:B:219:PRO:CD	2.43	0.44
1:F:198:PRO:HD3	1:G:197:ALA:HA	1.99	0.44
1:I:222:GLN:HG2	1:I:223:GLY:N	2.33	0.44
1:I:233:ALA:CB	1:Y:237:GLN:HG2	2.47	0.44
1:J:253:GLY:O	1:J:254:ALA:HB3	2.17	0.44
1:L:226:GLY:HA3	1:N:224:ALA:CA	2.48	0.44
1:O:222:GLN:HG3	1:P:226:GLY:CA	2.38	0.44
1:P:216:GLN:NE2	1:Q:217:GLY:HA3	2.31	0.44
1:Y:235:GLY:H	1:Z:236:LEU:HB3	1.81	0.44
1:Z:215:SER:HA	1:1:216:GLN:N	2.33	0.44
1:1:206:LEU:HD23	1:1:208:GLY:N	2.32	0.44
1:2:207:GLN:CA	1:4:207:GLN:HB3	2.47	0.44
1:R:228:PRO:HB2	1:U:243:PRO:HB3	1.99	0.44
1:S:192:GLN:NE2	1:T:188:ALA:HB1	2.33	0.44
1:S:218:ALA:CB	1:T:219:PRO:O	2.65	0.44
1:T:203:ALA:HB1	1:U:216:GLN:HG2	2.00	0.44
1:U:231:GLN:C	1:V:228:PRO:HB3	2.43	0.44
1:U:249:PRO:O	1:W:250:GLY:O	2.36	0.44
1:W:233:ALA:O	1:W:234:PRO:C	2.60	0.44
1:X:161:LEU:CD2	1:J:194:ALA:HB1	2.47	0.44
1:X:164:ALA:HB3	1:B:166:GLY:H	1.81	0.44
1:X:173:ALA:N	1:A:171:GLN:OE1	2.50	0.44
1:A:207:GLN:C	1:K:236:LEU:HD23	2.43	0.44
1:A:222:GLN:OE1	1:A:222:GLN:N	2.51	0.44
1:D:176:LEU:HD11	1:H:188:ALA:CA	2.38	0.44
1:D:176:LEU:N	1:E:177:GLN:HB2	2.32	0.44
1:D:195:PRO:HB3	1:H:210:PRO:CG	2.48	0.44
1:D:195:PRO:HG3	1:G:205:GLY:O	2.17	0.44
1:E:207:GLN:CA	1:K:224:ALA:HB3	2.36	0.44
1:I:257:ALA:N	1:J:257:ALA:HA	2.32	0.44
1:J:218:ALA:HB1	1:K:219:PRO:O	2.18	0.44
1:L:225:PRO:HD2	1:N:222:GLN:C	2.42	0.44
1:L:240:PRO:HB3	1:N:237:GLN:OE1	2.17	0.44
1:O:222:GLN:CA	1:P:223:GLY:HA2	2.48	0.44
1:Y:206:LEU:C	1:Y:206:LEU:HD12	2.43	0.44
1:Y:225:PRO:O	1:Z:228:PRO:HG3	2.17	0.44
1:Z:217:GLY:HA2	1:1:219:PRO:HD2	1.98	0.44
1:Z:230:SER:OG	1:Z:231:GLN:N	2.50	0.44
1:2:262:GLY:N	1:4:263:ALA:HB3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:270:PRO:CA	1:4:269:ALA:HB3	2.40	0.44
1:3:251:LEU:HA	1:4:250:GLY:HA3	1.98	0.44
1:R:177:GLN:HB3	1:T:177:GLN:CB	2.47	0.44
1:R:223:GLY:CA	1:S:223:GLY:O	2.65	0.44
1:U:221:LEU:C	1:U:222:GLN:HG3	2.42	0.44
1:V:218:ALA:N	1:V:219:PRO:HD3	2.32	0.44
1:X:192:GLN:HA	1:B:193:GLY:O	2.18	0.44
1:X:210:PRO:HG3	1:A:208:GLY:C	2.42	0.44
1:A:168:PRO:CD	1:K:198:PRO:HA	2.48	0.44
1:A:173:ALA:HB1	1:I:204:PRO:N	2.32	0.44
1:B:191:LEU:O	1:2:236:LEU:HD13	2.18	0.44
1:C:191:LEU:HB2	1:E:193:GLY:N	2.32	0.44
1:C:217:GLY:N	1:D:213:PRO:HG2	2.32	0.44
1:C:224:ALA:H	1:E:221:LEU:HB3	1.83	0.44
1:C:228:PRO:HB3	1:G:236:LEU:HG	2.00	0.44
1:D:191:LEU:HD23	1:D:191:LEU:H	1.83	0.44
1:D:234:PRO:CB	1:I:257:ALA:HB1	2.48	0.44
1:F:191:LEU:HB2	1:G:192:GLN:H	1.82	0.44
1:F:227:ALA:HB3	1:H:226:GLY:N	2.31	0.44
1:G:192:GLN:HG3	1:G:193:GLY:H	1.81	0.44
1:I:252:GLN:CA	1:K:251:LEU:HB2	2.26	0.44
1:M:207:GLN:HG3	1:N:207:GLN:CG	2.47	0.44
1:M:261:GLN:CB	1:N:265:GLY:HA3	2.41	0.44
1:O:206:LEU:HA	1:Q:204:PRO:C	2.41	0.44
1:O:216:GLN:HG3	1:O:219:PRO:CD	2.48	0.44
1:P:221:LEU:HD12	1:P:223:GLY:H	1.82	0.44
1:Y:212:ALA:HA	1:1:213:PRO:HG2	1.99	0.44
1:Z:245:SER:O	1:1:245:SER:CB	2.65	0.44
1:Z:251:LEU:HD12	1:1:250:GLY:CA	2.36	0.44
1:1:228:PRO:CG	1:4:238:GLY:HA3	2.47	0.44
1:1:247:GLY:CA	1:W:244:GLY:O	2.66	0.44
1:2:207:GLN:OE1	1:4:211:GLY:N	2.43	0.44
1:2:260:SER:HA	1:3:261:GLN:C	2.42	0.44
1:2:273:PRO:HB3	1:4:271:GLY:HA2	1.99	0.44
1:3:235:GLY:O	1:4:237:GLN:HB2	2.17	0.44
1:3:240:PRO:O	1:3:243:PRO:HD3	2.17	0.44
1:4:207:GLN:O	1:4:208:GLY:C	2.60	0.44
1:4:247:GLY:O	1:4:249:PRO:CD	2.66	0.44
1:R:224:ALA:HA	1:S:227:ALA:N	2.25	0.44
1:S:229:GLY:O	1:T:230:SER:HA	2.18	0.44
1:X:183:PRO:HB3	1:A:186:GLN:CD	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:GLY:N	1:I:247:GLY:HA2	2.33	0.44
1:C:216:GLN:CB	1:D:214:GLY:O	2.64	0.44
1:F:197:ALA:CA	1:G:198:PRO:HD2	2.48	0.44
1:F:201:GLN:HA	1:G:201:GLN:HA	1.98	0.44
1:F:242:ALA:CA	1:G:240:PRO:HD3	2.39	0.44
1:G:201:GLN:OE1	1:H:201:GLN:NE2	2.51	0.44
1:I:221:LEU:HD12	1:I:222:GLN:O	2.18	0.44
1:J:195:PRO:HG2	1:J:198:PRO:HG3	1.98	0.44
1:O:175:GLY:HA2	1:P:176:LEU:HD13	2.00	0.44
1:O:192:GLN:O	1:Q:190:GLY:CA	2.66	0.44
1:O:231:GLN:HB2	1:P:230:SER:O	2.18	0.44
1:P:206:LEU:C	1:Q:204:PRO:HD2	2.43	0.44
1:Q:193:GLY:HA3	1:Z:225:PRO:HG2	1.99	0.44
1:Y:228:PRO:HD2	1:4:240:PRO:CG	2.48	0.44
1:Y:246:GLN:NE2	1:Z:246:GLN:HB3	2.33	0.44
1:Z:235:GLY:HA2	1:Z:237:GLN:HE22	1.83	0.44
1:R:209:ALA:HB3	1:S:212:ALA:CA	2.47	0.44
1:S:177:GLN:HA	1:T:174:PRO:C	2.42	0.44
1:S:218:ALA:HB1	1:T:219:PRO:O	2.18	0.44
1:U:210:PRO:C	1:V:210:PRO:HA	2.43	0.44
1:U:245:SER:CB	1:W:246:GLN:HG2	2.48	0.44
1:U:254:ALA:O	1:V:252:GLN:HB2	2.18	0.44
1:V:221:LEU:HG	1:W:222:GLN:OE1	2.18	0.44
1:W:209:ALA:HB1	1:W:210:PRO:CD	2.36	0.44
1:X:212:ALA:H	1:B:213:PRO:HG2	1.83	0.44
1:X:218:ALA:HB1	1:A:216:GLN:HG3	1.99	0.44
1:F:188:ALA:O	1:G:188:ALA:CB	2.65	0.44
1:G:187:GLY:CA	1:H:187:GLY:HA3	2.48	0.44
1:I:206:LEU:HD22	1:K:206:LEU:CG	2.48	0.44
1:I:217:GLY:CA	1:J:218:ALA:HB3	2.48	0.44
1:O:167:ALA:O	1:P:167:ALA:HB1	2.17	0.44
1:P:220:GLY:N	1:Q:221:LEU:HD23	2.33	0.44
1:Y:210:PRO:HB3	1:Z:213:PRO:HD2	1.99	0.44
1:Y:252:GLN:NE2	1:W:252:GLN:O	2.47	0.44
1:Z:252:GLN:HB3	1:Z:255:PRO:HG3	1.94	0.44
1:S:203:ALA:N	1:S:204:PRO:CD	2.81	0.44
1:X:221:LEU:HB3	1:B:221:LEU:N	2.33	0.44
1:A:167:ALA:N	1:A:168:PRO:CD	2.80	0.44
1:A:198:PRO:CD	1:D:211:GLY:HA3	2.47	0.44
1:C:189:PRO:O	1:D:191:LEU:HD13	2.18	0.44
1:C:206:LEU:HG	1:C:210:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:233:ALA:O	1:I:248:ALA:HB3	2.18	0.44
1:D:177:GLN:O	1:D:179:ALA:N	2.48	0.44
1:D:237:GLN:HG2	1:E:239:ALA:O	2.18	0.44
1:E:219:PRO:HB3	1:J:234:PRO:CB	2.36	0.44
1:F:217:GLY:O	1:F:218:ALA:C	2.61	0.44
1:I:206:LEU:HD12	1:Z:214:GLY:CA	2.48	0.44
1:J:219:PRO:CA	1:Y:221:LEU:HD11	2.48	0.44
1:J:252:GLN:HG2	1:1:254:ALA:O	2.17	0.44
1:L:206:LEU:CD2	1:M:208:GLY:HA2	2.48	0.44
1:M:236:LEU:C	1:M:236:LEU:HD12	2.42	0.44
1:N:267:GLN:OE1	1:N:267:GLN:HA	2.16	0.44
1:O:173:ALA:HB3	1:P:174:PRO:CA	2.36	0.44
1:O:179:ALA:CB	1:Q:178:GLY:HA3	2.46	0.44
1:O:228:PRO:CD	1:T:244:GLY:HA2	2.47	0.44
1:O:230:SER:CA	1:Q:231:GLN:HB2	2.48	0.44
1:Y:241:GLY:O	1:Z:246:GLN:NE2	2.51	0.44
1:Z:215:SER:CA	1:1:216:GLN:HA	2.48	0.44
1:Z:235:GLY:CA	1:Z:237:GLN:OE1	2.65	0.44
1:Z:236:LEU:HD23	1:1:237:GLN:CB	2.48	0.44
1:1:247:GLY:O	1:W:245:SER:HA	2.18	0.44
1:2:206:LEU:HA	1:4:205:GLY:O	2.18	0.44
1:R:212:ALA:HB1	1:W:225:PRO:HB3	2.00	0.44
1:R:224:ALA:O	1:T:229:GLY:N	2.50	0.44
1:A:165:PRO:CG	1:B:168:PRO:HB3	2.42	0.43
1:A:199:GLY:HA2	1:J:227:ALA:HB1	1.99	0.43
1:A:201:GLN:HB2	1:K:231:GLN:O	2.18	0.43
1:C:171:GLN:HA	1:D:171:GLN:CB	2.48	0.43
1:C:177:GLN:CD	1:C:180:PRO:HD2	2.43	0.43
1:D:234:PRO:HB2	1:I:257:ALA:CA	2.47	0.43
1:E:176:LEU:HA	1:E:176:LEU:HD12	1.84	0.43
1:E:197:ALA:N	1:E:198:PRO:HD3	2.33	0.43
1:F:229:GLY:CA	1:G:226:GLY:HA3	2.23	0.43
1:G:237:GLN:HA	1:H:239:ALA:C	2.43	0.43
1:I:197:ALA:N	1:I:198:PRO:CD	2.81	0.43
1:I:240:PRO:HB3	1:J:240:PRO:O	2.18	0.43
1:I:257:ALA:HB2	1:J:258:PRO:CD	2.47	0.43
1:J:197:ALA:O	1:J:198:PRO:C	2.61	0.43
1:J:200:SER:HB2	1:K:200:SER:N	2.33	0.43
1:K:227:ALA:HB1	1:K:228:PRO:CD	2.46	0.43
1:L:215:SER:O	1:M:214:GLY:N	2.42	0.43
1:L:254:ALA:HB2	1:M:251:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:231:GLN:CB	1:N:230:SER:OG	2.64	0.43
1:M:264:PRO:HG3	1:N:267:GLN:HB3	1.99	0.43
1:N:266:LEU:HD11	1:N:267:GLN:HG2	2.00	0.43
1:O:175:GLY:C	1:P:176:LEU:HD13	2.43	0.43
1:O:209:ALA:CA	1:P:210:PRO:HB2	2.48	0.43
1:O:212:ALA:O	1:Q:216:GLN:CA	2.65	0.43
1:O:213:PRO:C	1:P:215:SER:HB2	2.42	0.43
1:P:222:GLN:CA	1:Q:224:ALA:HA	2.44	0.43
1:Y:229:GLY:N	1:V:221:LEU:CD2	2.78	0.43
1:Y:234:PRO:HA	1:Z:235:GLY:N	2.32	0.43
1:Z:215:SER:OG	1:1:214:GLY:CA	2.65	0.43
1:1:206:LEU:HD23	1:1:207:GLN:N	2.33	0.43
1:3:245:SER:OG	1:3:246:GLN:N	2.50	0.43
1:X:184:GLY:HA3	1:A:184:GLY:HA3	2.00	0.43
1:E:177:GLN:HG2	1:E:178:GLY:N	2.32	0.43
1:F:202:GLY:HA3	1:H:201:GLN:NE2	2.33	0.43
1:F:215:SER:HA	1:F:219:PRO:CG	2.47	0.43
1:F:230:SER:OG	1:G:231:GLN:OE1	2.34	0.43
1:F:243:PRO:HD2	1:G:240:PRO:CD	2.45	0.43
1:G:234:PRO:C	1:H:238:GLY:HA3	2.43	0.43
1:G:240:PRO:HG3	1:H:241:GLY:HA3	1.99	0.43
1:K:232:GLY:O	1:K:233:ALA:C	2.62	0.43
1:L:236:LEU:HD22	1:M:233:ALA:CB	2.42	0.43
1:L:257:ALA:HB3	1:L:258:PRO:CD	2.39	0.43
1:M:256:GLY:C	1:M:258:PRO:HD3	2.43	0.43
1:O:179:ALA:N	1:O:180:PRO:CD	2.82	0.43
1:O:191:LEU:HA	1:Q:192:GLN:HB2	1.99	0.43
1:Y:259:GLY:O	1:Z:260:SER:OG	2.24	0.43
1:Z:200:SER:OG	1:1:200:SER:N	2.52	0.43
1:2:235:GLY:C	1:4:236:LEU:HD11	2.43	0.43
1:2:236:LEU:O	1:4:239:ALA:HB1	2.18	0.43
1:R:206:LEU:HD21	1:T:205:GLY:HA3	2.00	0.43
1:R:231:GLN:O	1:T:235:GLY:N	2.35	0.43
1:S:194:ALA:HA	1:T:192:GLN:O	2.18	0.43
1:S:221:LEU:CD1	1:T:224:ALA:HB2	2.48	0.43
1:U:187:GLY:O	1:V:188:ALA:HB2	2.18	0.43
1:U:198:PRO:CB	1:W:198:PRO:HG2	2.48	0.43
1:V:227:ALA:HB1	1:V:228:PRO:HD2	2.01	0.43
1:V:232:GLY:H	1:W:233:ALA:CB	2.31	0.43
1:X:187:GLY:N	1:B:188:ALA:O	2.37	0.43
1:X:211:GLY:N	1:B:209:ALA:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:231:GLN:NE2	1:H:232:GLY:O	2.51	0.43
1:J:223:GLY:HA2	1:K:225:PRO:HD2	2.01	0.43
1:J:251:LEU:HD23	1:J:255:PRO:HD3	2.00	0.43
1:L:201:GLN:H	1:N:202:GLY:HA3	1.84	0.43
1:L:251:LEU:CB	1:M:251:LEU:O	2.64	0.43
1:O:185:SER:O	1:O:186:GLN:HB3	2.18	0.43
1:O:210:PRO:HG2	1:Q:213:PRO:HD3	2.00	0.43
1:P:227:ALA:HB3	1:T:245:SER:C	2.43	0.43
1:2:216:GLN:HB3	1:4:222:GLN:HG2	2.01	0.43
1:2:226:GLY:O	1:2:228:PRO:HD3	2.18	0.43
1:R:184:GLY:CA	1:S:186:GLN:HE21	2.29	0.43
1:R:201:GLN:HB2	1:T:200:SER:OG	2.19	0.43
1:U:182:ALA:O	1:U:185:SER:N	2.51	0.43
1:U:182:ALA:N	1:W:183:PRO:HA	2.33	0.43
1:V:206:LEU:N	1:W:206:LEU:HD13	2.34	0.43
1:V:209:ALA:O	1:V:210:PRO:C	2.60	0.43
1:X:225:PRO:CD	1:B:223:GLY:HA2	2.47	0.43
1:A:222:GLN:O	1:A:225:PRO:HD3	2.18	0.43
1:C:237:GLN:HE22	1:E:234:PRO:HA	1.83	0.43
1:E:202:GLY:HA2	1:I:216:GLN:CD	2.44	0.43
1:F:191:LEU:HB3	1:G:192:GLN:HB2	2.00	0.43
1:I:208:GLY:O	1:K:210:PRO:HG3	2.18	0.43
1:J:235:GLY:O	1:K:237:GLN:HG2	2.19	0.43
1:M:215:SER:O	1:N:218:ALA:CB	2.67	0.43
1:M:236:LEU:HD12	1:M:237:GLN:O	2.18	0.43
1:P:188:ALA:N	1:P:189:PRO:HD3	2.34	0.43
1:Y:193:GLY:O	1:1:195:PRO:HD3	2.18	0.43
1:Y:224:ALA:N	1:Z:225:PRO:HA	2.33	0.43
1:Y:244:GLY:HA3	1:V:236:LEU:C	2.43	0.43
1:3:216:GLN:HE22	1:4:215:SER:H	1.65	0.43
1:4:264:PRO:O	1:4:266:LEU:HD12	2.17	0.43
1:R:204:PRO:HB2	1:S:205:GLY:H	1.83	0.43
1:R:220:GLY:H	1:S:222:GLN:HA	1.82	0.43
1:R:228:PRO:CD	1:T:228:PRO:HB2	2.47	0.43
1:S:197:ALA:O	1:T:197:ALA:CA	2.59	0.43
1:S:236:LEU:HD12	1:S:236:LEU:N	2.33	0.43
1:T:204:PRO:C	1:U:216:GLN:HG3	2.42	0.43
1:W:191:LEU:O	1:W:191:LEU:HG	2.17	0.43
1:X:196:GLY:O	1:B:197:ALA:CA	2.65	0.43
1:D:220:GLY:HA2	1:J:236:LEU:HD22	2.00	0.43
1:E:171:GLN:CB	1:K:186:GLN:HA	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:221:LEU:HD11	1:Z:227:ALA:HA	2.00	0.43
1:L:204:PRO:HA	1:M:205:GLY:CA	2.49	0.43
1:L:221:LEU:HB3	1:N:221:LEU:HA	2.00	0.43
1:L:238:GLY:CA	1:M:235:GLY:HA3	2.47	0.43
1:L:240:PRO:HB3	1:N:237:GLN:HE22	1.83	0.43
1:L:249:PRO:CG	1:N:249:PRO:CB	2.95	0.43
1:O:179:ALA:N	1:P:180:PRO:HB2	2.33	0.43
1:O:185:SER:HA	1:P:187:GLY:N	2.25	0.43
1:O:187:GLY:H	1:Q:185:SER:HA	1.83	0.43
1:O:208:GLY:O	1:P:210:PRO:HD2	2.18	0.43
1:P:177:GLN:HB3	1:Q:175:GLY:C	2.43	0.43
1:Q:227:ALA:HB1	1:Q:228:PRO:CD	2.37	0.43
1:Y:238:GLY:HA2	1:V:233:ALA:CB	2.38	0.43
1:Y:245:SER:O	1:Z:246:GLN:HG3	2.19	0.43
1:Y:250:GLY:HA2	1:Z:253:GLY:H	1.81	0.43
1:Z:242:ALA:HB1	1:2:251:LEU:HD22	2.00	0.43
1:Z:246:GLN:CA	1:1:245:SER:HA	2.46	0.43
1:R:196:GLY:HA2	1:S:199:GLY:CA	2.48	0.43
1:R:213:PRO:HB2	1:U:228:PRO:HB3	2.00	0.43
1:T:228:PRO:HG3	1:U:241:GLY:CA	2.48	0.43
1:U:231:GLN:N	1:V:228:PRO:HB3	2.32	0.43
1:U:233:ALA:N	1:U:234:PRO:CD	2.81	0.43
1:V:251:LEU:HG	1:V:251:LEU:O	2.18	0.43
1:A:206:LEU:HD21	1:A:208:GLY:C	2.44	0.43
1:E:222:GLN:OE1	1:K:240:PRO:HD3	2.19	0.43
1:F:244:GLY:HA2	1:G:246:GLN:CG	2.37	0.43
1:G:211:GLY:O	1:H:213:PRO:O	2.36	0.43
1:G:221:LEU:O	1:G:222:GLN:C	2.61	0.43
1:H:206:LEU:HD11	1:H:208:GLY:C	2.43	0.43
1:J:197:ALA:HA	1:K:196:GLY:N	2.33	0.43
1:L:224:ALA:CA	1:N:221:LEU:HD23	2.48	0.43
1:P:177:GLN:CD	1:Q:174:PRO:HD2	2.44	0.43
1:P:201:GLN:N	1:Q:199:GLY:O	2.49	0.43
1:Y:250:GLY:N	1:Z:251:LEU:HD11	2.33	0.43
1:Y:257:ALA:CB	1:Y:258:PRO:CD	2.95	0.43
1:Z:235:GLY:HA2	1:Z:237:GLN:CD	2.42	0.43
1:Z:237:GLN:CB	1:V:231:GLN:OE1	2.62	0.43
1:1:221:LEU:N	1:1:221:LEU:HD12	2.33	0.43
1:2:238:GLY:O	1:2:239:ALA:C	2.61	0.43
1:3:209:ALA:CB	1:4:210:PRO:HB3	2.48	0.43
1:3:264:PRO:CG	1:4:264:PRO:HG3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:206:LEU:HD12	1:4:206:LEU:HA	1.90	0.43
1:S:179:ALA:O	1:T:176:LEU:HG	2.19	0.43
1:S:213:PRO:HD2	1:T:211:GLY:H	1.83	0.43
1:U:189:PRO:HB2	1:W:192:GLN:CG	2.48	0.43
1:X:185:SER:CA	1:B:187:GLY:HA3	2.40	0.43
1:X:208:GLY:C	1:X:210:PRO:HD3	2.43	0.43
1:X:212:ALA:HB2	1:A:211:GLY:H	1.81	0.43
1:A:181:GLY:C	1:B:183:PRO:HD2	2.44	0.43
1:A:207:GLN:HG3	1:B:210:PRO:CB	2.48	0.43
1:D:179:ALA:HA	1:J:195:PRO:HG3	2.01	0.43
1:D:220:GLY:O	1:D:221:LEU:HD12	2.19	0.43
1:F:210:PRO:N	1:H:209:ALA:O	2.52	0.43
1:F:212:ALA:HB2	1:H:213:PRO:CG	2.48	0.43
1:I:208:GLY:H	1:J:210:PRO:HA	1.82	0.43
1:J:187:GLY:O	1:J:188:ALA:HB2	2.19	0.43
1:J:206:LEU:N	1:J:207:GLN:OE1	2.51	0.43
1:L:211:GLY:HA2	1:N:209:ALA:HB3	2.01	0.43
1:L:222:GLN:HB2	1:M:219:PRO:HB3	1.99	0.43
1:O:186:GLN:HA	1:Q:185:SER:CA	2.38	0.43
1:Y:205:GLY:O	1:I:204:PRO:CB	2.66	0.43
1:Y:210:PRO:HB3	1:Z:212:ALA:HA	2.01	0.43
1:2:264:PRO:CB	1:4:266:LEU:HD11	2.48	0.43
1:2:269:ALA:HB1	1:3:272:ALA:C	2.44	0.43
1:4:251:LEU:HD11	1:4:255:PRO:CG	2.48	0.43
1:R:196:GLY:N	1:S:197:ALA:O	2.48	0.43
1:R:202:GLY:HA2	1:U:212:ALA:O	2.19	0.43
1:R:228:PRO:HD3	1:T:228:PRO:CB	2.47	0.43
1:T:239:ALA:N	1:T:240:PRO:HD3	2.34	0.43
1:U:245:SER:CB	1:W:246:GLN:CG	2.96	0.43
1:V:209:ALA:HB1	1:V:210:PRO:HD2	1.99	0.43
1:X:203:ALA:HB3	1:B:204:PRO:O	2.18	0.43
1:A:160:GLY:O	1:A:163:GLY:N	2.40	0.43
1:C:199:GLY:O	1:I:214:GLY:HA3	2.19	0.43
1:D:179:ALA:HA	1:J:195:PRO:CB	2.49	0.43
1:G:198:PRO:HA	1:H:198:PRO:CA	2.49	0.43
1:G:243:PRO:HB3	1:G:246:GLN:NE2	2.34	0.43
1:I:226:GLY:C	1:J:228:PRO:HA	2.44	0.43
1:L:252:GLN:HA	1:N:253:GLY:O	2.19	0.43
1:N:237:GLN:O	1:N:237:GLN:CG	2.67	0.43
1:P:203:ALA:HA	1:Q:202:GLY:N	2.34	0.43
1:Z:221:LEU:HA	1:I:221:LEU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:234:PRO:HG2	1:W:229:GLY:N	2.34	0.43
1:1:212:ALA:HB3	1:1:216:GLN:CB	2.42	0.43
1:2:208:GLY:HA3	1:3:211:GLY:CA	2.49	0.43
1:3:220:GLY:C	1:4:221:LEU:HD23	2.43	0.43
1:4:251:LEU:HD21	1:4:255:PRO:CB	2.48	0.43
1:T:232:GLY:C	1:T:234:PRO:HD3	2.44	0.43
1:U:194:ALA:O	1:U:195:PRO:C	2.62	0.43
1:W:248:ALA:HB3	1:W:249:PRO:CD	2.39	0.43
1:X:189:PRO:HD2	1:A:189:PRO:HB3	1.99	0.43
1:B:160:GLY:HA3	1:B:162:GLN:OE1	2.19	0.43
1:D:213:PRO:C	1:E:216:GLN:HG2	2.43	0.43
1:D:227:ALA:O	1:E:230:SER:HA	2.18	0.43
1:F:208:GLY:CA	1:H:206:LEU:HD12	2.49	0.43
1:F:222:GLN:OE1	1:G:216:GLN:HA	2.18	0.43
1:G:187:GLY:C	1:H:189:PRO:HA	2.44	0.43
1:G:193:GLY:O	1:H:195:PRO:HG2	2.19	0.43
1:I:199:GLY:O	1:I:200:SER:HB2	2.19	0.43
1:I:201:GLN:O	1:K:201:GLN:HA	2.19	0.43
1:J:194:ALA:HA	1:K:195:PRO:CA	2.45	0.43
1:J:251:LEU:CB	1:L:261:GLN:HG3	2.49	0.43
1:L:205:GLY:H	1:M:206:LEU:HD22	1.84	0.43
1:M:241:GLY:O	1:N:242:ALA:HB3	2.18	0.43
1:O:195:PRO:HB3	1:P:196:GLY:C	2.43	0.43
1:O:206:LEU:HD11	1:1:240:PRO:CG	2.49	0.43
1:Y:227:ALA:O	1:Y:228:PRO:C	2.62	0.43
1:Z:234:PRO:CG	1:W:228:PRO:HA	2.49	0.43
1:2:212:ALA:O	1:3:216:GLN:NE2	2.44	0.43
1:R:178:GLY:HA3	1:S:179:ALA:CA	2.49	0.43
1:R:195:PRO:CA	1:S:197:ALA:HB1	2.49	0.43
1:X:191:LEU:HB2	1:A:191:LEU:HD13	2.00	0.43
1:X:196:GLY:HA3	1:B:197:ALA:HA	1.99	0.43
1:X:204:PRO:HG3	1:B:204:PRO:HB2	1.99	0.43
1:X:222:GLN:CD	1:A:216:GLN:HG2	2.43	0.43
1:A:182:ALA:N	1:B:183:PRO:HD2	2.34	0.43
1:A:195:PRO:HA	1:J:224:ALA:CB	2.29	0.43
1:A:198:PRO:HB2	1:K:231:GLN:HA	2.00	0.43
1:C:191:LEU:C	1:C:192:GLN:HG2	2.44	0.43
1:D:227:ALA:O	1:D:228:PRO:C	2.61	0.43
1:F:185:SER:OG	1:G:185:SER:O	2.34	0.43
1:F:215:SER:O	1:F:216:GLN:C	2.61	0.43
1:K:247:GLY:O	1:K:248:ALA:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:177:GLN:NE2	1:Z:207:GLN:O	2.52	0.43
1:Y:206:LEU:HB2	1:1:206:LEU:CA	2.49	0.43
1:Y:236:LEU:O	1:1:239:ALA:HA	2.19	0.43
1:Y:244:GLY:CA	1:V:236:LEU:HB2	2.39	0.43
1:Z:236:LEU:CA	1:Z:239:ALA:HB2	2.49	0.43
1:Z:245:SER:O	1:1:245:SER:CA	2.66	0.43
1:2:235:GLY:C	1:4:236:LEU:CD1	2.91	0.43
1:2:249:PRO:HD2	1:4:248:ALA:O	2.19	0.43
1:3:219:PRO:HB2	1:4:221:LEU:HD11	1.98	0.43
1:3:251:LEU:HD22	1:3:255:PRO:HA	2.00	0.43
1:R:203:ALA:CA	1:T:204:PRO:HA	2.48	0.43
1:R:219:PRO:HD2	1:T:222:GLN:HB2	1.98	0.43
1:X:157:GLY:HA3	1:I:185:SER:OG	2.19	0.42
1:X:210:PRO:HB3	1:B:213:PRO:CD	2.49	0.42
1:D:182:ALA:HB1	1:J:201:GLN:HE22	1.83	0.42
1:E:222:GLN:HA	1:J:236:LEU:HD11	2.01	0.42
1:F:181:GLY:HA3	1:G:183:PRO:CB	2.48	0.42
1:F:186:GLN:H	1:G:187:GLY:CA	2.30	0.42
1:G:180:PRO:N	1:H:180:PRO:HD2	2.34	0.42
1:G:204:PRO:HG3	1:H:203:ALA:CA	2.49	0.42
1:H:227:ALA:N	1:H:228:PRO:HD3	2.33	0.42
1:I:200:SER:H	1:K:200:SER:HB2	1.84	0.42
1:N:204:PRO:HB2	1:N:206:LEU:HD11	1.97	0.42
1:O:177:GLN:HG3	1:Z:207:GLN:O	2.19	0.42
1:2:265:GLY:O	1:4:266:LEU:HG	2.19	0.42
1:R:196:GLY:HA2	1:S:199:GLY:N	2.34	0.42
1:S:222:GLN:NE2	1:S:225:PRO:HD2	2.34	0.42
1:X:167:ALA:N	1:X:168:PRO:HD3	2.34	0.42
1:A:156:GLN:HB3	1:B:159:PRO:HA	2.01	0.42
1:A:207:GLN:NE2	1:B:210:PRO:HG3	2.35	0.42
1:B:222:GLN:H	1:4:267:GLN:HG2	1.84	0.42
1:G:225:PRO:O	1:H:228:PRO:HB3	2.19	0.42
1:I:204:PRO:HD2	1:K:204:PRO:CA	2.48	0.42
1:I:204:PRO:CD	1:K:204:PRO:HB3	2.50	0.42
1:J:195:PRO:HG2	1:K:192:GLN:HE22	1.83	0.42
1:L:208:GLY:O	1:L:210:PRO:HD3	2.19	0.42
1:L:238:GLY:HA2	1:N:238:GLY:H	1.85	0.42
1:M:250:GLY:CA	1:N:251:LEU:H	2.31	0.42
1:Y:207:GLN:O	1:1:210:PRO:CD	2.67	0.42
1:Y:213:PRO:HB2	1:V:207:GLN:HE22	1.81	0.42
1:Y:219:PRO:HB3	1:1:222:GLN:OE1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:246:GLN:OE1	1:1:246:GLN:HA	2.18	0.42
1:2:253:GLY:HA2	1:3:255:PRO:HA	2.01	0.42
1:2:267:GLN:HA	1:4:269:ALA:HA	2.01	0.42
1:X:158:ALA:HB1	1:B:161:LEU:O	2.19	0.42
1:X:183:PRO:HD2	1:A:183:PRO:HB3	2.02	0.42
1:A:161:LEU:O	1:B:164:ALA:HB3	2.19	0.42
1:A:175:GLY:HA2	1:B:176:LEU:HD12	2.00	0.42
1:A:185:SER:N	1:B:185:SER:HA	2.30	0.42
1:C:166:GLY:H	1:D:167:ALA:HB2	1.84	0.42
1:C:215:SER:CA	1:D:213:PRO:HD2	2.49	0.42
1:F:189:PRO:HD3	1:H:188:ALA:CB	2.49	0.42
1:G:189:PRO:HD3	1:H:189:PRO:CB	2.49	0.42
1:I:210:PRO:C	1:K:212:ALA:HB3	2.44	0.42
1:J:213:PRO:HA	1:K:216:GLN:NE2	2.31	0.42
1:M:242:ALA:HB1	1:N:244:GLY:C	2.44	0.42
1:O:198:PRO:HB2	1:P:201:GLN:CD	2.44	0.42
1:O:205:GLY:C	1:Q:204:PRO:HB2	2.45	0.42
1:O:212:ALA:HB3	1:P:215:SER:N	2.32	0.42
1:P:202:GLY:C	1:Q:201:GLN:HB2	2.44	0.42
1:Y:210:PRO:CD	1:1:210:PRO:CB	2.98	0.42
1:2:229:GLY:N	1:4:231:GLN:NE2	2.68	0.42
1:R:183:PRO:HA	1:S:183:PRO:CG	2.30	0.42
1:R:234:PRO:HB3	1:T:237:GLN:HE21	1.83	0.42
1:S:216:GLN:HB2	1:T:218:ALA:H	1.84	0.42
1:S:244:GLY:O	1:S:245:SER:HB2	2.19	0.42
1:W:209:ALA:CB	1:W:210:PRO:HD2	2.38	0.42
1:X:162:GLN:HG2	1:J:194:ALA:O	2.19	0.42
1:X:208:GLY:HA3	1:A:208:GLY:C	2.42	0.42
1:A:195:PRO:CG	1:J:225:PRO:HG2	2.44	0.42
1:B:172:GLY:HA2	1:3:219:PRO:CA	2.48	0.42
1:C:213:PRO:HG3	1:D:210:PRO:CD	2.50	0.42
1:D:206:LEU:H	1:E:206:LEU:HD11	1.85	0.42
1:D:224:ALA:H	1:E:225:PRO:HB3	1.84	0.42
1:E:172:GLY:CA	1:K:188:ALA:HB2	2.50	0.42
1:F:181:GLY:HA3	1:G:183:PRO:HB3	2.01	0.42
1:I:206:LEU:HD22	1:K:206:LEU:HG	2.00	0.42
1:I:255:PRO:O	1:K:253:GLY:HA2	2.20	0.42
1:K:222:GLN:CD	1:K:222:GLN:N	2.77	0.42
1:L:201:GLN:HA	1:L:201:GLN:OE1	2.18	0.42
1:N:240:PRO:HB2	1:N:243:PRO:CD	2.49	0.42
1:O:177:GLN:HA	1:Q:178:GLY:HA2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:212:ALA:HB3	1:Q:216:GLN:CB	2.49	0.42
1:Y:195:PRO:CG	1:1:195:PRO:HD2	2.48	0.42
1:Y:230:SER:HA	1:1:231:GLN:CB	2.44	0.42
1:Y:247:GLY:HA2	1:W:243:PRO:HG2	2.00	0.42
1:4:272:ALA:O	1:4:273:PRO:C	2.62	0.42
1:R:219:PRO:CB	1:S:221:LEU:O	2.67	0.42
1:R:230:SER:N	1:S:231:GLN:HA	2.33	0.42
1:S:191:LEU:HD23	1:T:193:GLY:CA	2.31	0.42
1:A:204:PRO:HG2	1:B:204:PRO:O	2.20	0.42
1:A:209:ALA:H	1:B:212:ALA:CB	2.33	0.42
1:E:210:PRO:O	1:K:227:ALA:CA	2.67	0.42
1:E:219:PRO:HB3	1:K:234:PRO:CG	2.46	0.42
1:E:223:GLY:H	1:J:236:LEU:HD21	1.84	0.42
1:G:238:GLY:N	1:H:240:PRO:HA	2.34	0.42
1:I:196:GLY:N	1:J:198:PRO:HB2	2.33	0.42
1:K:220:GLY:O	1:K:222:GLN:NE2	2.50	0.42
1:L:262:GLY:HA3	1:M:261:GLN:HA	2.00	0.42
1:O:207:GLN:CD	1:P:207:GLN:HA	2.43	0.42
1:Y:249:PRO:C	1:Z:251:LEU:HG	2.45	0.42
1:Y:258:PRO:HB2	1:1:260:SER:HA	2.02	0.42
1:3:251:LEU:HD22	1:3:255:PRO:CA	2.50	0.42
1:4:210:PRO:O	1:4:211:GLY:C	2.63	0.42
1:4:252:GLN:CD	1:4:255:PRO:HD3	2.44	0.42
1:R:204:PRO:N	1:T:204:PRO:HA	2.35	0.42
1:R:229:GLY:N	1:T:231:GLN:HB3	2.35	0.42
1:U:193:GLY:O	1:V:192:GLN:CG	2.67	0.42
1:B:170:SER:CA	1:3:216:GLN:HA	2.48	0.42
1:B:189:PRO:HG3	1:4:236:LEU:H	1.85	0.42
1:D:187:GLY:HA2	1:E:189:PRO:HG3	2.02	0.42
1:G:210:PRO:HA	1:H:212:ALA:HA	2.01	0.42
1:I:207:GLN:HG3	1:K:210:PRO:HD3	2.02	0.42
1:L:247:GLY:C	1:M:246:GLN:HA	2.45	0.42
1:M:244:GLY:HA3	1:N:245:SER:C	2.43	0.42
1:O:210:PRO:CG	1:Q:213:PRO:HD3	2.48	0.42
1:Z:237:GLN:HG3	1:W:231:GLN:H	1.85	0.42
1:Z:243:PRO:HG2	1:2:252:GLN:NE2	2.34	0.42
1:R:215:SER:HA	1:U:230:SER:H	1.84	0.42
1:X:226:GLY:HA2	1:B:224:ALA:O	2.20	0.42
1:A:167:ALA:CB	1:K:198:PRO:HB3	2.50	0.42
1:A:209:ALA:HB2	1:K:238:GLY:O	2.20	0.42
1:A:221:LEU:HD11	1:K:252:GLN:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:GLY:CA	1:K:252:GLN:OE1	2.67	0.42
1:B:179:ALA:HB1	1:B:180:PRO:HD2	2.02	0.42
1:F:201:GLN:CB	1:G:202:GLY:HA3	2.49	0.42
1:F:242:ALA:HA	1:G:238:GLY:C	2.45	0.42
1:I:236:LEU:HD23	1:I:237:GLN:O	2.19	0.42
1:I:252:GLN:HG2	1:K:249:PRO:HA	1.99	0.42
1:J:216:GLN:HG3	1:Z:222:GLN:N	2.34	0.42
1:J:236:LEU:HA	1:J:236:LEU:HD12	1.92	0.42
1:L:222:GLN:HB2	1:M:219:PRO:CD	2.50	0.42
1:L:238:GLY:HA2	1:N:236:LEU:C	2.45	0.42
1:L:252:GLN:O	1:M:251:LEU:CA	2.67	0.42
1:P:209:ALA:N	1:P:210:PRO:HD3	2.35	0.42
1:Y:235:GLY:HA3	1:I:237:GLN:HB2	2.02	0.42
1:3:257:ALA:HB1	1:4:256:GLY:C	2.43	0.42
1:4:238:GLY:O	1:4:240:PRO:HD2	2.19	0.42
1:R:219:PRO:HB3	1:S:221:LEU:H	1.85	0.42
1:R:221:LEU:CA	1:S:223:GLY:HA3	2.48	0.42
1:R:237:GLN:CD	1:R:240:PRO:HD3	2.45	0.42
1:V:214:GLY:HA3	1:W:217:GLY:HA2	2.00	0.42
1:X:193:GLY:O	1:X:194:ALA:C	2.63	0.42
1:X:222:GLN:NE2	1:A:216:GLN:HG2	2.34	0.42
1:A:177:GLN:CA	1:B:177:GLN:CG	2.97	0.42
1:A:180:PRO:O	1:A:181:GLY:C	2.61	0.42
1:A:205:GLY:O	1:B:206:LEU:CD1	2.68	0.42
1:D:237:GLN:HG2	1:E:239:ALA:CB	2.36	0.42
1:G:203:ALA:O	1:G:206:LEU:HD22	2.20	0.42
1:G:233:ALA:O	1:H:234:PRO:HA	2.20	0.42
1:H:201:GLN:HE21	1:H:204:PRO:HG2	1.82	0.42
1:I:190:GLY:HA2	1:J:190:GLY:C	2.44	0.42
1:I:193:GLY:HA3	1:K:195:PRO:CD	2.41	0.42
1:P:227:ALA:HB2	1:T:245:SER:HB3	2.02	0.42
1:Y:200:SER:O	1:I:200:SER:O	2.37	0.42
1:Y:215:SER:OG	1:W:210:PRO:HD2	2.19	0.42
1:Y:240:PRO:HB3	1:Z:241:GLY:HA3	2.02	0.42
1:Y:254:ALA:CA	1:Z:256:GLY:HA3	2.50	0.42
1:Z:211:GLY:O	1:Z:213:PRO:CD	2.67	0.42
1:Z:235:GLY:HA2	1:Z:237:GLN:NE2	2.35	0.42
1:Z:248:ALA:N	1:Z:249:PRO:CD	2.73	0.42
1:Z:255:PRO:HA	1:2:266:LEU:HD11	2.01	0.42
1:1:228:PRO:HG2	1:4:238:GLY:HA3	2.02	0.42
1:2:258:PRO:O	1:2:259:GLY:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:216:GLN:N	1:T:219:PRO:HG2	2.35	0.42
1:S:191:LEU:O	1:T:189:PRO:HB2	2.19	0.42
1:T:180:PRO:O	1:T:181:GLY:C	2.62	0.42
1:V:229:GLY:O	1:W:232:GLY:N	2.48	0.42
1:X:162:GLN:CD	1:A:161:LEU:HD22	2.45	0.42
1:X:210:PRO:HD2	1:B:210:PRO:N	2.34	0.42
1:A:162:GLN:HB2	1:B:164:ALA:H	1.85	0.42
1:A:171:GLN:OE1	1:A:171:GLN:HA	2.20	0.42
1:A:188:ALA:HB2	1:J:219:PRO:CG	2.49	0.42
1:B:220:GLY:N	1:I:252:GLN:OE1	2.43	0.42
1:C:210:PRO:HG2	1:D:209:ALA:HA	2.01	0.42
1:F:229:GLY:C	1:G:228:PRO:HD3	2.45	0.42
1:F:231:GLN:O	1:F:232:GLY:C	2.62	0.42
1:I:243:PRO:CB	1:J:243:PRO:HB2	2.49	0.42
1:J:219:PRO:CB	1:K:221:LEU:HG	2.49	0.42
1:J:249:PRO:HB2	1:J:252:GLN:HG3	2.02	0.42
1:L:240:PRO:HB2	1:N:240:PRO:HA	2.01	0.42
1:M:224:ALA:CB	1:N:225:PRO:HA	2.50	0.42
1:M:231:GLN:O	1:M:231:GLN:CD	2.63	0.42
1:M:231:GLN:CG	1:N:230:SER:OG	2.68	0.42
1:M:241:GLY:O	1:M:242:ALA:HB2	2.19	0.42
1:P:198:PRO:CD	1:Q:196:GLY:HA2	2.47	0.42
1:Q:186:GLN:NE2	1:S:202:GLY:HA2	2.34	0.42
1:Y:207:GLN:OE1	1:I:207:GLN:HA	2.20	0.42
1:Y:207:GLN:O	1:Z:210:PRO:HA	2.20	0.42
1:Y:224:ALA:H	1:Z:225:PRO:HB3	1.85	0.42
1:Z:248:ALA:HB3	1:4:259:GLY:O	2.19	0.42
1:1:214:GLY:O	1:1:215:SER:C	2.63	0.42
1:2:250:GLY:HA3	1:4:251:LEU:H	1.85	0.42
1:2:253:GLY:HA3	1:4:253:GLY:CA	2.38	0.42
1:2:259:GLY:O	1:2:260:SER:C	2.62	0.42
1:2:268:GLY:HA3	1:3:268:GLY:CA	2.49	0.42
1:R:215:SER:HG	1:S:216:GLN:C	2.27	0.42
1:R:235:GLY:HA2	1:T:239:ALA:N	2.33	0.42
1:R:237:GLN:N	1:S:237:GLN:HB2	2.33	0.42
1:U:209:ALA:O	1:V:210:PRO:HD3	2.20	0.42
1:X:171:GLN:HG2	1:B:174:PRO:CA	2.50	0.42
1:X:222:GLN:O	1:X:223:GLY:C	2.62	0.42
1:C:178:GLY:HA3	1:D:177:GLN:O	2.20	0.42
1:C:178:GLY:HA3	1:E:178:GLY:CA	2.50	0.42
1:C:191:LEU:CD2	1:J:208:GLY:HA2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:176:LEU:HD13	1:K:191:LEU:H	1.85	0.42
1:F:234:PRO:O	1:F:235:GLY:C	2.63	0.42
1:G:189:PRO:HD3	1:H:189:PRO:HB3	2.02	0.42
1:I:236:LEU:N	1:K:236:LEU:HD11	2.35	0.42
1:J:216:GLN:HG2	1:J:217:GLY:N	2.35	0.42
1:K:206:LEU:HD11	1:Z:216:GLN:HE21	1.85	0.42
1:L:201:GLN:CB	1:N:204:PRO:HD3	2.50	0.42
1:L:216:GLN:NE2	1:M:213:PRO:HD3	2.34	0.42
1:L:222:GLN:O	1:N:221:LEU:CB	2.68	0.42
1:L:252:GLN:HB3	1:N:253:GLY:HA3	2.01	0.42
1:M:240:PRO:O	1:N:242:ALA:N	2.52	0.42
1:O:193:GLY:CA	1:Q:193:GLY:O	2.63	0.42
1:O:206:LEU:HD11	1:1:240:PRO:HG3	2.02	0.42
1:P:198:PRO:HB3	1:Q:196:GLY:C	2.43	0.42
1:Y:200:SER:HB2	1:1:200:SER:H	1.84	0.42
1:Y:231:GLN:N	1:Z:231:GLN:HA	2.35	0.42
1:Z:231:GLN:HB2	1:4:243:PRO:C	2.42	0.42
1:Z:245:SER:O	1:1:245:SER:OG	2.34	0.42
1:Z:245:SER:N	1:4:258:PRO:HG3	2.35	0.42
1:2:220:GLY:O	1:3:223:GLY:N	2.48	0.42
1:2:234:PRO:HD3	1:3:233:ALA:O	2.19	0.42
1:3:207:GLN:O	1:4:207:GLN:O	2.37	0.42
1:R:212:ALA:HB1	1:W:225:PRO:CB	2.49	0.42
1:V:241:GLY:HA3	1:W:246:GLN:OE1	2.20	0.42
1:X:179:ALA:CA	1:A:177:GLN:NE2	2.83	0.41
1:B:225:PRO:HB2	1:2:273:PRO:C	2.45	0.41
1:D:176:LEU:C	1:E:177:GLN:HB3	2.45	0.41
1:F:193:GLY:HA3	1:G:193:GLY:CA	2.50	0.41
1:I:249:PRO:CG	1:K:249:PRO:HD3	2.49	0.41
1:J:228:PRO:CB	1:1:236:LEU:H	2.33	0.41
1:J:236:LEU:HD23	1:K:240:PRO:HD3	2.02	0.41
1:J:247:GLY:N	1:K:246:GLN:OE1	2.50	0.41
1:L:255:PRO:CD	1:M:253:GLY:CA	2.98	0.41
1:M:239:ALA:N	1:M:240:PRO:HD3	2.35	0.41
1:2:253:GLY:CA	1:3:254:ALA:O	2.67	0.41
1:4:263:ALA:O	1:4:264:PRO:C	2.63	0.41
1:T:179:ALA:O	1:T:180:PRO:C	2.62	0.41
1:T:233:ALA:N	1:T:234:PRO:CD	2.83	0.41
1:U:181:GLY:HA2	1:W:180:PRO:N	2.35	0.41
1:U:201:GLN:HB3	1:W:202:GLY:C	2.44	0.41
1:U:245:SER:O	1:W:246:GLN:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:248:ALA:O	1:W:249:PRO:HB2	2.20	0.41
1:V:215:SER:HB3	1:W:215:SER:CB	2.45	0.41
1:W:194:ALA:N	1:W:195:PRO:CD	2.83	0.41
1:C:234:PRO:HB2	1:E:234:PRO:HB3	2.02	0.41
1:E:194:ALA:HB3	1:E:195:PRO:CD	2.35	0.41
1:E:210:PRO:HD2	1:K:225:PRO:C	2.44	0.41
1:I:201:GLN:OE1	1:K:203:ALA:O	2.37	0.41
1:I:222:GLN:HG2	1:I:223:GLY:H	1.84	0.41
1:J:242:ALA:C	1:Z:249:PRO:HG2	2.43	0.41
1:L:209:ALA:HB3	1:L:210:PRO:HD3	2.02	0.41
1:L:220:GLY:O	1:N:218:ALA:CB	2.66	0.41
1:L:256:GLY:O	1:N:257:ALA:HB1	2.19	0.41
1:M:251:LEU:O	1:M:252:GLN:C	2.61	0.41
1:N:240:PRO:C	1:N:243:PRO:HD3	2.45	0.41
1:Y:203:ALA:HB1	1:1:205:GLY:H	1.85	0.41
1:Y:218:ALA:H	1:Z:219:PRO:CB	2.29	0.41
1:Y:249:PRO:HG2	1:4:261:GLN:HE21	1.81	0.41
1:2:205:GLY:HA3	1:3:206:LEU:HD23	2.02	0.41
1:2:234:PRO:HA	1:3:235:GLY:N	2.35	0.41
1:2:270:PRO:O	1:2:273:PRO:HG3	2.19	0.41
1:3:219:PRO:CG	1:4:218:ALA:HB1	2.50	0.41
1:R:210:PRO:HB3	1:U:224:ALA:HB3	2.03	0.41
1:T:200:SER:HG	1:T:201:GLN:H	1.68	0.41
1:X:192:GLN:NE2	1:B:193:GLY:O	2.53	0.41
1:X:195:PRO:HA	1:B:195:PRO:HD3	1.98	0.41
1:C:177:GLN:HG3	1:C:178:GLY:N	2.35	0.41
1:C:230:SER:HA	1:D:228:PRO:HA	2.02	0.41
1:D:195:PRO:CB	1:H:210:PRO:HD2	2.50	0.41
1:D:228:PRO:CD	1:G:237:GLN:CB	2.98	0.41
1:G:180:PRO:HA	1:H:180:PRO:CB	2.43	0.41
1:G:240:PRO:CD	1:G:243:PRO:HG3	2.50	0.41
1:L:246:GLN:HA	1:M:246:GLN:HE21	1.84	0.41
1:O:212:ALA:O	1:Q:212:ALA:HB1	2.20	0.41
1:Q:192:GLN:O	1:Q:195:PRO:HD3	2.20	0.41
1:Y:243:PRO:CB	1:Z:244:GLY:HA2	2.51	0.41
1:Y:247:GLY:CA	1:W:243:PRO:HD2	2.45	0.41
1:2:245:SER:HB2	1:3:246:GLN:NE2	2.34	0.41
1:2:269:ALA:HA	1:3:273:PRO:CA	2.51	0.41
1:4:235:GLY:O	1:4:236:LEU:C	2.63	0.41
1:4:267:GLN:HG2	1:4:267:GLN:O	2.20	0.41
1:R:203:ALA:HB1	1:T:205:GLY:CA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:178:GLY:C	1:T:176:LEU:HA	2.45	0.41
1:T:175:GLY:N	1:T:177:GLN:OE1	2.54	0.41
1:V:216:GLN:O	1:V:219:PRO:CG	2.68	0.41
1:V:234:PRO:HB2	1:V:237:GLN:HG2	2.02	0.41
1:A:224:ALA:N	1:A:225:PRO:HD3	2.35	0.41
1:C:234:PRO:CG	1:E:234:PRO:HB3	2.50	0.41
1:D:206:LEU:HB3	1:F:221:LEU:HD11	2.02	0.41
1:E:191:LEU:CD2	1:J:207:GLN:HA	2.47	0.41
1:I:186:GLN:CA	1:J:185:SER:HA	2.43	0.41
1:I:215:SER:CA	1:K:219:PRO:HG2	2.50	0.41
1:I:227:ALA:HB3	1:J:229:GLY:O	2.21	0.41
1:K:255:PRO:HD3	1:M:266:LEU:CD2	2.39	0.41
1:L:220:GLY:C	1:N:219:PRO:HG2	2.45	0.41
1:L:225:PRO:HG3	1:N:221:LEU:O	2.21	0.41
1:L:234:PRO:HG3	1:M:230:SER:HB3	2.02	0.41
1:L:260:SER:HB2	1:M:257:ALA:O	2.20	0.41
1:L:262:GLY:HA3	1:M:261:GLN:CG	2.23	0.41
1:M:262:GLY:O	1:M:264:PRO:CD	2.68	0.41
1:P:224:ALA:HB3	1:Q:225:PRO:O	2.20	0.41
1:Z:213:PRO:HD2	1:1:211:GLY:C	2.45	0.41
1:Z:247:GLY:O	1:4:259:GLY:HA2	2.21	0.41
1:1:231:GLN:OE1	1:V:221:LEU:CD2	2.69	0.41
1:1:243:PRO:O	1:1:244:GLY:C	2.64	0.41
1:2:219:PRO:HA	1:3:221:LEU:N	2.35	0.41
1:2:263:ALA:O	1:3:267:GLN:N	2.53	0.41
1:S:219:PRO:C	1:T:221:LEU:HD23	2.46	0.41
1:T:174:PRO:HB2	1:T:175:GLY:H	1.61	0.41
1:U:223:GLY:N	1:W:220:GLY:HA3	2.35	0.41
1:B:202:GLY:C	1:B:204:PRO:HD3	2.45	0.41
1:D:205:GLY:O	1:D:206:LEU:HB2	2.21	0.41
1:E:206:LEU:O	1:J:221:LEU:HD13	2.20	0.41
1:F:212:ALA:CA	1:G:211:GLY:O	2.68	0.41
1:G:214:GLY:HA2	1:H:216:GLN:H	1.84	0.41
1:G:234:PRO:HB2	1:H:238:GLY:CA	2.46	0.41
1:I:249:PRO:CG	1:K:248:ALA:HA	2.50	0.41
1:J:205:GLY:HA3	1:K:203:ALA:HB1	2.03	0.41
1:J:206:LEU:O	1:J:208:GLY:N	2.48	0.41
1:J:236:LEU:HG	1:K:239:ALA:N	2.31	0.41
1:J:246:GLN:HA	1:K:246:GLN:CA	2.37	0.41
1:J:248:ALA:HB1	1:O:218:ALA:CB	2.44	0.41
1:L:204:PRO:CB	1:M:205:GLY:HA3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:240:PRO:HG3	1:N:237:GLN:O	2.20	0.41
1:L:241:GLY:HA3	1:N:243:PRO:HB2	2.03	0.41
1:L:247:GLY:O	1:M:246:GLN:HA	2.20	0.41
1:M:244:GLY:O	1:N:248:ALA:HB2	2.20	0.41
1:O:171:GLN:O	1:O:171:GLN:HG3	2.21	0.41
1:O:228:PRO:C	1:Q:230:SER:HA	2.45	0.41
1:Y:194:ALA:O	1:I:194:ALA:HB1	2.21	0.41
1:Y:228:PRO:HG2	1:4:240:PRO:HG3	2.02	0.41
1:Y:232:GLY:HA2	1:1:234:PRO:HB2	2.02	0.41
1:Y:236:LEU:O	1:1:240:PRO:CD	2.68	0.41
1:Y:239:ALA:CB	1:V:234:PRO:CA	2.98	0.41
1:Y:239:ALA:CB	1:V:234:PRO:CG	2.98	0.41
1:Y:249:PRO:CA	1:W:246:GLN:O	2.67	0.41
1:Y:251:LEU:N	1:U:248:ALA:HB3	2.35	0.41
1:Z:213:PRO:HB3	1:1:216:GLN:CD	2.44	0.41
1:Z:237:GLN:HE22	1:2:247:GLY:HA2	1.85	0.41
1:3:203:ALA:CB	1:4:204:PRO:HD2	2.46	0.41
1:R:233:ALA:O	1:T:236:LEU:HA	2.19	0.41
1:U:221:LEU:O	1:U:222:GLN:CG	2.68	0.41
1:U:231:GLN:CB	1:V:228:PRO:HG3	2.42	0.41
1:V:231:GLN:HA	1:W:232:GLY:C	2.45	0.41
1:X:209:ALA:HA	1:B:209:ALA:H	1.85	0.41
1:C:191:LEU:HD21	1:J:208:GLY:HA2	2.02	0.41
1:C:205:GLY:N	1:E:206:LEU:HD21	2.36	0.41
1:F:189:PRO:HB2	1:H:192:GLN:HE22	1.86	0.41
1:F:193:GLY:O	1:F:194:ALA:CB	2.68	0.41
1:F:208:GLY:O	1:G:208:GLY:O	2.39	0.41
1:F:224:ALA:HA	1:H:221:LEU:O	2.21	0.41
1:G:207:GLN:NE2	1:H:206:LEU:HB2	2.35	0.41
1:L:222:GLN:HE21	1:M:218:ALA:C	2.28	0.41
1:L:251:LEU:HB3	1:M:250:GLY:C	2.45	0.41
1:O:167:ALA:HB1	1:P:170:SER:N	2.35	0.41
1:Y:228:PRO:HB3	1:W:221:LEU:CD1	2.50	0.41
1:Y:230:SER:O	1:V:225:PRO:CD	2.67	0.41
1:Y:234:PRO:HA	1:Z:234:PRO:HA	2.02	0.41
1:Z:243:PRO:HG2	1:2:251:LEU:HB3	2.03	0.41
1:2:212:ALA:H	1:4:213:PRO:HA	1.86	0.41
1:2:230:SER:HA	1:4:232:GLY:O	2.21	0.41
1:2:237:GLN:O	1:4:239:ALA:CB	2.69	0.41
1:R:185:SER:HB3	1:S:184:GLY:O	2.21	0.41
1:R:192:GLN:NE2	1:T:195:PRO:CD	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:222:GLN:HG2	1:S:224:ALA:H	1.86	0.41
1:S:237:GLN:NE2	1:T:236:LEU:HG	2.36	0.41
1:T:226:GLY:O	1:U:239:ALA:HA	2.20	0.41
1:V:222:GLN:O	1:V:223:GLY:C	2.63	0.41
1:W:243:PRO:HB3	1:W:246:GLN:HB2	1.97	0.41
1:X:158:ALA:CB	1:A:158:ALA:HB2	2.51	0.41
1:A:221:LEU:C	1:4:273:PRO:HD2	2.44	0.41
1:B:170:SER:N	1:3:216:GLN:HB2	2.35	0.41
1:C:194:ALA:N	1:C:195:PRO:HD3	2.36	0.41
1:C:194:ALA:HB3	1:K:211:GLY:O	2.21	0.41
1:C:238:GLY:C	1:D:236:LEU:HD23	2.46	0.41
1:D:212:ALA:CB	1:E:215:SER:H	2.33	0.41
1:D:221:LEU:CB	1:J:236:LEU:HD23	2.30	0.41
1:D:237:GLN:HA	1:E:239:ALA:N	2.36	0.41
1:F:203:ALA:N	1:G:204:PRO:HD2	2.36	0.41
1:O:197:ALA:CA	1:Q:198:PRO:HD2	2.50	0.41
1:O:201:GLN:HE22	1:Q:202:GLY:HA3	1.86	0.41
1:O:231:GLN:HA	1:P:231:GLN:C	2.45	0.41
1:P:174:PRO:N	1:Q:171:GLN:HG3	2.36	0.41
1:P:192:GLN:HG3	1:Q:189:PRO:HB3	2.02	0.41
1:Y:196:GLY:O	1:1:198:PRO:CD	2.68	0.41
1:Y:243:PRO:HD2	1:Z:246:GLN:HG2	2.02	0.41
1:Y:244:GLY:CA	1:V:235:GLY:O	2.68	0.41
1:Y:250:GLY:CA	1:Z:251:LEU:CD1	2.96	0.41
1:Y:258:PRO:C	1:1:260:SER:HA	2.45	0.41
1:Z:250:GLY:O	1:Z:252:GLN:N	2.50	0.41
1:3:251:LEU:O	1:3:252:GLN:C	2.63	0.41
1:V:221:LEU:HB3	1:W:221:LEU:C	2.46	0.41
1:X:174:PRO:HG3	1:X:177:GLN:NE2	2.36	0.41
1:C:195:PRO:HD2	1:D:193:GLY:HA3	2.03	0.41
1:C:238:GLY:C	1:E:236:LEU:HD12	2.46	0.41
1:D:221:LEU:CD1	1:J:236:LEU:HB3	2.50	0.41
1:F:207:GLN:N	1:F:207:GLN:CD	2.78	0.41
1:F:235:GLY:HA2	1:G:233:ALA:N	2.33	0.41
1:G:241:GLY:O	1:G:243:PRO:HD3	2.21	0.41
1:I:231:GLN:N	1:K:233:ALA:HA	2.35	0.41
1:L:232:GLY:O	1:N:230:SER:O	2.38	0.41
1:L:258:PRO:O	1:M:257:ALA:CB	2.69	0.41
1:O:226:GLY:HA3	1:P:229:GLY:CA	2.51	0.41
1:Y:229:GLY:HA3	1:Z:231:GLN:OE1	2.21	0.41
1:1:254:ALA:O	1:1:255:PRO:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:244:GLY:HA2	1:3:244:GLY:C	2.45	0.41
1:2:249:PRO:HG2	1:4:248:ALA:O	2.21	0.41
1:2:264:PRO:HB2	1:4:266:LEU:CD2	2.38	0.41
1:R:227:ALA:HA	1:T:228:PRO:HB3	1.99	0.41
1:T:234:PRO:HB3	1:T:237:GLN:OE1	2.21	0.41
1:U:186:GLN:HG3	1:U:187:GLY:O	2.20	0.41
1:X:189:PRO:HB2	1:A:189:PRO:CB	2.51	0.41
1:X:206:LEU:CD2	1:E:219:PRO:HB2	2.47	0.41
1:A:161:LEU:C	1:B:162:GLN:HB2	2.45	0.41
1:A:177:GLN:N	1:B:177:GLN:CG	2.77	0.41
1:A:177:GLN:HB2	1:B:177:GLN:HG3	2.02	0.41
1:A:194:ALA:HB1	1:B:198:PRO:CB	2.48	0.41
1:B:205:GLY:C	1:B:206:LEU:HD22	2.46	0.41
1:C:195:PRO:HB3	1:E:195:PRO:CB	2.30	0.41
1:C:203:ALA:HA	1:D:204:PRO:CG	2.51	0.41
1:D:195:PRO:CG	1:H:206:LEU:HD13	2.50	0.41
1:D:212:ALA:H	1:E:213:PRO:CD	2.34	0.41
1:D:212:ALA:O	1:E:213:PRO:HB2	2.21	0.41
1:F:195:PRO:CD	1:H:194:ALA:CA	2.94	0.41
1:F:219:PRO:O	1:F:220:GLY:C	2.64	0.41
1:G:180:PRO:CD	1:H:180:PRO:HD2	2.51	0.41
1:G:208:GLY:H	1:H:210:PRO:HA	1.85	0.41
1:I:189:PRO:HG3	1:N:199:GLY:HA3	2.02	0.41
1:I:190:GLY:HA2	1:J:190:GLY:CA	2.51	0.41
1:I:251:LEU:HD23	1:J:251:LEU:CD1	2.50	0.41
1:J:201:GLN:H	1:K:200:SER:HG	1.69	0.41
1:L:199:GLY:C	1:N:200:SER:HA	2.45	0.41
1:L:230:SER:CB	1:M:227:ALA:O	2.68	0.41
1:L:252:GLN:HG3	1:N:253:GLY:H	1.86	0.41
1:L:257:ALA:CB	1:L:258:PRO:HD3	2.37	0.41
1:M:215:SER:HB2	1:N:215:SER:C	2.46	0.41
1:M:224:ALA:HB3	1:N:225:PRO:HA	2.03	0.41
1:O:202:GLY:HA2	1:1:235:GLY:H	1.84	0.41
1:P:180:PRO:HG3	1:Q:176:LEU:HA	2.02	0.41
1:Y:219:PRO:CB	1:W:214:GLY:H	2.33	0.41
1:Y:234:PRO:HB3	1:2:246:GLN:NE2	2.36	0.41
1:Y:238:GLY:HA3	1:Z:239:ALA:O	2.21	0.41
1:Y:244:GLY:H	1:V:237:GLN:NE2	2.18	0.41
1:Y:258:PRO:O	1:Z:260:SER:HB3	2.19	0.41
1:Z:194:ALA:HB1	1:1:195:PRO:N	2.36	0.41
1:Z:209:ALA:HB1	1:Z:210:PRO:CD	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:242:ALA:HB1	1:3:245:SER:HB3	1.99	0.41
1:2:250:GLY:HA3	1:4:251:LEU:N	2.36	0.41
1:2:254:ALA:CB	1:2:255:PRO:CD	2.98	0.41
1:3:224:ALA:N	1:4:224:ALA:HB1	2.36	0.41
1:4:251:LEU:HD21	1:4:255:PRO:CG	2.50	0.41
1:R:201:GLN:HG2	1:T:201:GLN:C	2.46	0.41
1:R:205:GLY:CA	1:S:206:LEU:HA	2.48	0.41
1:R:212:ALA:H	1:T:212:ALA:CA	2.31	0.41
1:R:215:SER:HA	1:U:230:SER:C	2.45	0.41
1:U:231:GLN:CB	1:V:228:PRO:HB3	2.48	0.41
1:U:236:LEU:HD11	1:V:237:GLN:N	2.32	0.41
1:U:250:GLY:O	1:U:251:LEU:C	2.64	0.41
1:V:196:GLY:H	1:W:198:PRO:HD3	1.84	0.41
1:V:245:SER:HA	1:V:249:PRO:HG3	2.03	0.41
1:W:251:LEU:O	1:W:252:GLN:C	2.64	0.41
1:X:187:GLY:O	1:X:188:ALA:C	2.62	0.41
1:C:182:ALA:HA	1:H:194:ALA:CB	2.48	0.41
1:C:215:SER:HA	1:D:213:PRO:HD2	2.03	0.41
1:C:222:GLN:NE2	1:E:218:ALA:CB	2.84	0.41
1:D:200:SER:O	1:H:213:PRO:HB2	2.20	0.41
1:F:189:PRO:C	1:H:191:LEU:HA	2.45	0.41
1:F:193:GLY:HA2	1:H:195:PRO:CD	2.51	0.41
1:F:202:GLY:CA	1:H:204:PRO:CD	2.90	0.41
1:G:240:PRO:HA	1:H:241:GLY:C	2.46	0.41
1:I:224:ALA:HB1	1:J:228:PRO:HG2	2.00	0.41
1:K:217:GLY:O	1:K:219:PRO:HD3	2.20	0.41
1:Y:218:ALA:HB3	1:Z:220:GLY:CA	2.51	0.41
1:Y:252:GLN:HG3	1:U:249:PRO:HB2	1.98	0.41
1:2:265:GLY:HA2	1:3:267:GLN:C	2.46	0.41
1:2:266:LEU:O	1:2:267:GLN:HG2	2.21	0.41
1:3:251:LEU:CD2	1:3:255:PRO:HB3	2.40	0.41
1:R:176:LEU:HD21	1:S:176:LEU:CD1	2.51	0.41
1:R:236:LEU:HB2	1:T:239:ALA:HA	2.02	0.41
1:R:239:ALA:CB	1:R:243:PRO:HG3	2.48	0.41
1:T:215:SER:O	1:T:216:GLN:C	2.63	0.41
1:X:183:PRO:HB3	1:A:186:GLN:NE2	2.36	0.40
1:A:162:GLN:HB3	1:B:165:PRO:CB	2.51	0.40
1:C:229:GLY:HA2	1:E:227:ALA:H	1.86	0.40
1:D:222:GLN:HE21	1:F:236:LEU:CD2	2.33	0.40
1:F:180:PRO:HD2	1:H:183:PRO:CG	2.51	0.40
1:G:189:PRO:HD3	1:H:189:PRO:CA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:195:PRO:HD2	1:J:198:PRO:CG	2.51	0.40
1:L:265:GLY:O	1:M:268:GLY:HA3	2.21	0.40
1:N:251:LEU:O	1:N:252:GLN:C	2.64	0.40
1:P:201:GLN:HB2	1:Q:200:SER:HB3	2.03	0.40
1:P:210:PRO:CG	1:Q:206:LEU:HB3	2.32	0.40
1:Y:200:SER:HB2	1:1:200:SER:N	2.35	0.40
1:Y:248:ALA:HB2	1:W:244:GLY:O	2.21	0.40
1:Y:249:PRO:HD2	1:Z:251:LEU:HD23	2.03	0.40
1:Z:243:PRO:HD2	1:2:251:LEU:HB3	2.03	0.40
1:2:212:ALA:N	1:2:213:PRO:HD3	2.36	0.40
1:2:252:GLN:H	1:4:251:LEU:HB3	1.86	0.40
1:3:222:GLN:O	1:4:224:ALA:CB	2.69	0.40
1:R:206:LEU:O	1:R:207:GLN:CB	2.67	0.40
1:R:207:GLN:N	1:T:206:LEU:HD23	2.36	0.40
1:R:215:SER:O	1:T:219:PRO:HD2	2.21	0.40
1:R:239:ALA:HB1	1:R:243:PRO:CB	2.51	0.40
1:S:237:GLN:CD	1:T:236:LEU:HG	2.47	0.40
1:X:159:PRO:CB	1:J:189:PRO:HG3	2.51	0.40
1:X:161:LEU:CG	1:J:194:ALA:HB1	2.51	0.40
1:X:194:ALA:O	1:X:195:PRO:C	2.64	0.40
1:X:203:ALA:O	1:A:204:PRO:N	2.54	0.40
1:X:219:PRO:HD2	1:A:216:GLN:HE22	1.86	0.40
1:C:195:PRO:CG	1:E:195:PRO:HB2	2.51	0.40
1:C:197:ALA:HA	1:D:196:GLY:HA2	2.00	0.40
1:F:185:SER:HB2	1:H:186:GLN:C	2.47	0.40
1:F:204:PRO:CB	1:H:207:GLN:OE1	2.69	0.40
1:H:191:LEU:HD12	1:H:191:LEU:C	2.46	0.40
1:I:211:GLY:CA	1:K:212:ALA:HB3	2.51	0.40
1:I:255:PRO:HB2	1:K:256:GLY:O	2.21	0.40
1:K:254:ALA:HB1	1:L:266:LEU:HD22	2.02	0.40
1:L:251:LEU:C	1:M:250:GLY:HA3	2.46	0.40
1:L:265:GLY:HA2	1:M:268:GLY:O	2.21	0.40
1:P:173:ALA:HB2	1:Q:169:GLY:CA	2.52	0.40
1:Q:206:LEU:CD2	1:Q:210:PRO:HG3	2.51	0.40
1:Y:201:GLN:CG	1:1:200:SER:CB	2.98	0.40
1:Y:257:ALA:HB3	1:1:257:ALA:C	2.47	0.40
1:Z:216:GLN:H	1:1:216:GLN:HA	1.87	0.40
1:Z:257:ALA:CA	1:W:252:GLN:O	2.62	0.40
1:3:218:ALA:HA	1:4:219:PRO:O	2.21	0.40
1:3:218:ALA:O	1:4:222:GLN:NE2	2.54	0.40
1:R:192:GLN:CG	1:R:195:PRO:CG	3.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:203:ALA:O	1:W:203:ALA:O	2.39	0.40
1:V:187:GLY:O	1:V:189:PRO:N	2.55	0.40
1:X:184:GLY:O	1:A:185:SER:O	2.39	0.40
1:E:173:ALA:N	1:E:174:PRO:CD	2.84	0.40
1:F:181:GLY:CA	1:G:183:PRO:HB3	2.52	0.40
1:F:201:GLN:HB2	1:G:202:GLY:CA	2.50	0.40
1:F:231:GLN:HG2	1:G:228:PRO:HB2	2.01	0.40
1:F:245:SER:H	1:G:246:GLN:HB3	1.86	0.40
1:G:188:ALA:N	1:H:189:PRO:HA	2.37	0.40
1:G:240:PRO:HB3	1:H:241:GLY:C	2.46	0.40
1:I:221:LEU:HD12	1:I:221:LEU:C	2.45	0.40
1:J:204:PRO:CG	1:K:202:GLY:HA2	2.51	0.40
1:J:242:ALA:CA	1:I:246:GLN:OE1	2.69	0.40
1:L:230:SER:HB2	1:M:227:ALA:C	2.46	0.40
1:L:233:ALA:HB1	1:M:231:GLN:OE1	2.21	0.40
1:L:243:PRO:HA	1:M:240:PRO:HD2	2.03	0.40
1:N:213:PRO:HB2	1:N:216:GLN:OE1	2.22	0.40
1:N:218:ALA:HB1	1:N:219:PRO:HD2	2.02	0.40
1:O:217:GLY:HA3	1:P:218:ALA:HB1	2.03	0.40
1:P:205:GLY:CA	1:Q:203:ALA:HB2	2.49	0.40
1:P:206:LEU:N	1:Q:202:GLY:O	2.41	0.40
1:P:210:PRO:CB	1:Q:210:PRO:HD2	2.52	0.40
1:Y:200:SER:HB2	1:I:199:GLY:HA3	2.01	0.40
1:Y:210:PRO:HG3	1:I:211:GLY:O	2.21	0.40
1:Y:248:ALA:N	1:Y:249:PRO:CD	2.84	0.40
1:Z:206:LEU:HB3	1:Z:208:GLY:O	2.21	0.40
1:Z:253:GLY:O	1:U:249:PRO:CA	2.70	0.40
1:R:187:GLY:HA2	1:S:189:PRO:N	2.37	0.40
1:R:225:PRO:CA	1:T:227:ALA:CB	2.94	0.40
1:R:231:GLN:CG	1:S:230:SER:O	2.69	0.40
1:R:240:PRO:HG2	1:T:245:SER:HA	2.02	0.40
1:S:212:ALA:HB1	1:T:211:GLY:CA	2.50	0.40
1:S:238:GLY:C	1:W:252:GLN:HB3	2.45	0.40
1:U:196:GLY:CA	1:W:198:PRO:HD3	2.27	0.40
1:U:236:LEU:HD21	1:V:235:GLY:C	2.46	0.40
1:U:246:GLN:OE1	1:W:247:GLY:HA3	2.22	0.40
1:X:157:GLY:C	1:A:155:SER:HB2	2.46	0.40
1:X:186:GLN:HG2	1:A:187:GLY:HA3	2.04	0.40
1:X:203:ALA:CB	1:B:203:ALA:HA	2.52	0.40
1:A:182:ALA:O	1:B:183:PRO:CD	2.70	0.40
1:A:221:LEU:HD21	1:K:252:GLN:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:LEU:HD13	1:B:206:LEU:HA	1.89	0.40
1:C:198:PRO:O	1:D:197:ALA:HB3	2.20	0.40
1:C:201:GLN:CG	1:I:216:GLN:HG2	2.51	0.40
1:C:222:GLN:CG	1:D:216:GLN:OE1	2.68	0.40
1:D:195:PRO:HD3	1:H:206:LEU:HD13	2.03	0.40
1:F:219:PRO:N	1:H:218:ALA:HB2	2.37	0.40
1:H:215:SER:OG	1:H:216:GLN:N	2.54	0.40
1:H:216:GLN:HG3	1:H:217:GLY:H	1.87	0.40
1:J:234:PRO:HB2	1:K:234:PRO:HB2	2.03	0.40
1:J:255:PRO:CG	1:L:262:GLY:HA2	2.51	0.40
1:K:232:GLY:C	1:K:234:PRO:HD3	2.47	0.40
1:L:258:PRO:CD	1:N:260:SER:H	2.34	0.40
1:M:245:SER:HB2	1:N:246:GLN:HG2	2.02	0.40
1:P:177:GLN:HG2	1:Q:174:PRO:CD	2.51	0.40
1:Q:167:ALA:O	1:Q:168:PRO:C	2.64	0.40
1:Y:242:ALA:O	1:Z:243:PRO:CB	2.68	0.40
1:Y:252:GLN:HA	1:1:252:GLN:HG3	2.03	0.40
1:Z:210:PRO:CA	1:1:210:PRO:HD2	2.39	0.40
1:1:216:GLN:OE1	1:1:216:GLN:HA	2.21	0.40
1:1:228:PRO:HG3	1:3:236:LEU:HD21	2.03	0.40
1:2:210:PRO:HA	1:3:213:PRO:HD2	2.00	0.40
1:2:215:SER:O	1:2:217:GLY:N	2.54	0.40
1:3:205:GLY:O	1:4:206:LEU:N	2.55	0.40
1:3:213:PRO:HG3	1:4:212:ALA:C	2.47	0.40
1:U:201:GLN:CD	1:V:204:PRO:HD2	2.46	0.40
1:U:244:GLY:HA3	1:V:246:GLN:NE2	2.37	0.40
1:X:186:GLN:HA	1:A:186:GLN:CA	2.51	0.40
1:X:211:GLY:HA2	1:B:209:ALA:HB3	2.03	0.40
1:A:168:PRO:CG	1:K:198:PRO:HA	2.51	0.40
1:A:184:GLY:HA3	1:B:185:SER:CA	2.50	0.40
1:A:218:ALA:CB	1:I:252:GLN:HB2	2.48	0.40
1:C:192:GLN:O	1:D:193:GLY:N	2.48	0.40
1:C:220:GLY:N	1:C:222:GLN:HE22	2.19	0.40
1:D:176:LEU:CA	1:E:177:GLN:HB2	2.52	0.40
1:D:192:GLN:HB2	1:H:203:ALA:O	2.22	0.40
1:E:174:PRO:HD3	1:K:188:ALA:CB	2.50	0.40
1:F:185:SER:OG	1:G:186:GLN:HA	2.22	0.40
1:F:196:GLY:C	1:G:198:PRO:CD	2.95	0.40
1:F:198:PRO:HD3	1:G:197:ALA:C	2.46	0.40
1:F:204:PRO:HG2	1:H:207:GLN:OE1	2.22	0.40
1:I:192:GLN:NE2	1:N:206:LEU:HD13	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:190:GLY:CA	1:K:189:PRO:HA	2.52	0.40
1:K:221:LEU:N	1:K:221:LEU:HD12	2.35	0.40
1:M:209:ALA:N	1:M:210:PRO:CD	2.83	0.40
1:O:174:PRO:O	1:P:176:LEU:HD13	2.21	0.40
1:P:217:GLY:CA	1:Q:219:PRO:HG2	2.49	0.40
1:Y:252:GLN:N	1:1:252:GLN:HB3	2.35	0.40
1:2:203:ALA:O	1:2:204:PRO:C	2.64	0.40
1:2:225:PRO:N	1:4:227:ALA:HB1	2.36	0.40
1:2:229:GLY:O	1:4:231:GLN:N	2.53	0.40
1:2:258:PRO:HA	1:3:261:GLN:NE2	2.36	0.40
1:R:219:PRO:CG	1:U:234:PRO:HB3	2.52	0.40
1:S:177:GLN:HB3	1:T:177:GLN:HB2	2.04	0.40
1:U:196:GLY:HA3	1:V:195:PRO:HA	2.04	0.40
1:U:200:SER:CB	1:W:201:GLN:HG3	2.52	0.40
1:V:221:LEU:HB3	1:W:221:LEU:O	2.22	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	1	69/780 (9%)	38 (55%)	31 (45%)	0	100	100
1	2	72/780 (9%)	34 (47%)	38 (53%)	0	100	100
1	3	72/780 (9%)	51 (71%)	20 (28%)	1 (1%)	9	40
1	4	73/780 (9%)	41 (56%)	30 (41%)	2 (3%)	4	25
1	A	71/780 (9%)	44 (62%)	27 (38%)	0	100	100
1	B	70/780 (9%)	47 (67%)	22 (31%)	1 (1%)	9	40
1	C	73/780 (9%)	45 (62%)	27 (37%)	1 (1%)	9	40
1	D	72/780 (9%)	47 (65%)	24 (33%)	1 (1%)	9	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	73/780 (9%)	48 (66%)	23 (32%)	2 (3%)	4	25
1	F	73/780 (9%)	29 (40%)	43 (59%)	1 (1%)	9	40
1	G	69/780 (9%)	39 (56%)	30 (44%)	0	100	100
1	H	69/780 (9%)	37 (54%)	32 (46%)	0	100	100
1	I	71/780 (9%)	56 (79%)	15 (21%)	0	100	100
1	J	73/780 (9%)	39 (53%)	33 (45%)	1 (1%)	9	40
1	K	71/780 (9%)	42 (59%)	29 (41%)	0	100	100
1	L	71/780 (9%)	43 (61%)	25 (35%)	3 (4%)	2	17
1	M	69/780 (9%)	42 (61%)	25 (36%)	2 (3%)	3	23
1	N	70/780 (9%)	42 (60%)	28 (40%)	0	100	100
1	O	68/780 (9%)	43 (63%)	24 (35%)	1 (2%)	8	40
1	P	64/780 (8%)	41 (64%)	23 (36%)	0	100	100
1	Q	68/780 (9%)	50 (74%)	18 (26%)	0	100	100
1	R	68/780 (9%)	45 (66%)	21 (31%)	2 (3%)	3	23
1	S	69/780 (9%)	35 (51%)	34 (49%)	0	100	100
1	T	70/780 (9%)	32 (46%)	37 (53%)	1 (1%)	9	40
1	U	75/780 (10%)	39 (52%)	33 (44%)	3 (4%)	2	18
1	V	74/780 (10%)	43 (58%)	29 (39%)	2 (3%)	4	25
1	W	75/780 (10%)	42 (56%)	30 (40%)	3 (4%)	2	18
1	X	73/780 (9%)	41 (56%)	30 (41%)	2 (3%)	4	25
1	Y	68/780 (9%)	41 (60%)	25 (37%)	2 (3%)	3	23
1	Z	70/780 (9%)	43 (61%)	27 (39%)	0	100	100
All	All	2123/23400 (9%)	1259 (59%)	833 (39%)	31 (2%)	11	40

All (31) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	X	182	ALA
1	X	216	GLN
1	C	179	ALA
1	E	194	ALA
1	F	194	ALA
1	L	209	ALA
1	L	212	ALA

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Mol	Chain	Res	Type
1	L	257	ALA
1	M	248	ALA
1	M	263	ALA
1	O	201	GLN
1	4	248	ALA
1	T	237	GLN
1	U	233	ALA
1	V	188	ALA
1	V	239	ALA
1	W	233	ALA
1	W	248	ALA
1	B	188	ALA
1	Y	257	ALA
1	R	207	GLN
1	U	239	ALA
1	3	212	ALA
1	R	225	PRO
1	U	249	PRO
1	D	177	GLN
1	E	215	SER
1	4	261	GLN
1	J	254	ALA
1	Y	212	ALA
1	W	227	ALA

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	1	33/364 (9%)	33 (100%)	0	100	100
1	2	34/364 (9%)	34 (100%)	0	100	100
1	3	35/364 (10%)	35 (100%)	0	100	100
1	4	35/364 (10%)	35 (100%)	0	100	100
1	A	35/364 (10%)	35 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	34/364 (9%)	34 (100%)	0	100	100
1	C	35/364 (10%)	35 (100%)	0	100	100
1	D	35/364 (10%)	35 (100%)	0	100	100
1	E	35/364 (10%)	35 (100%)	0	100	100
1	F	35/364 (10%)	35 (100%)	0	100	100
1	G	33/364 (9%)	33 (100%)	0	100	100
1	H	33/364 (9%)	33 (100%)	0	100	100
1	I	34/364 (9%)	34 (100%)	0	100	100
1	J	35/364 (10%)	35 (100%)	0	100	100
1	K	34/364 (9%)	34 (100%)	0	100	100
1	L	34/364 (9%)	34 (100%)	0	100	100
1	M	34/364 (9%)	34 (100%)	0	100	100
1	N	34/364 (9%)	34 (100%)	0	100	100
1	O	33/364 (9%)	32 (97%)	1 (3%)	36	57
1	P	31/364 (8%)	31 (100%)	0	100	100
1	Q	32/364 (9%)	32 (100%)	0	100	100
1	R	32/364 (9%)	32 (100%)	0	100	100
1	S	34/364 (9%)	34 (100%)	0	100	100
1	T	34/364 (9%)	34 (100%)	0	100	100
1	U	36/364 (10%)	36 (100%)	0	100	100
1	V	36/364 (10%)	36 (100%)	0	100	100
1	W	36/364 (10%)	36 (100%)	0	100	100
1	X	35/364 (10%)	35 (100%)	0	100	100
1	Y	32/364 (9%)	32 (100%)	0	100	100
1	Z	34/364 (9%)	34 (100%)	0	100	100
All	All	1022/10920 (9%)	1021 (100%)	1 (0%)	87	89

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	O	162	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (37)

such sidechains are listed below:

Mol	Chain	Res	Type
1	A	177	GLN
1	A	186	GLN
1	B	156	GLN
1	B	216	GLN
1	C	201	GLN
1	D	201	GLN
1	D	207	GLN
1	D	222	GLN
1	E	201	GLN
1	F	207	GLN
1	F	216	GLN
1	I	192	GLN
1	I	237	GLN
1	J	186	GLN
1	J	237	GLN
1	K	207	GLN
1	K	222	GLN
1	M	216	GLN
1	M	231	GLN
1	M	252	GLN
1	O	177	GLN
1	Y	192	GLN
1	Y	222	GLN
1	Y	237	GLN
1	Z	207	GLN
1	2	216	GLN
1	3	231	GLN
1	4	246	GLN
1	4	261	GLN
1	R	222	GLN
1	S	186	GLN
1	S	207	GLN
1	S	246	GLN
1	U	207	GLN
1	U	231	GLN
1	V	237	GLN
1	W	201	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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.

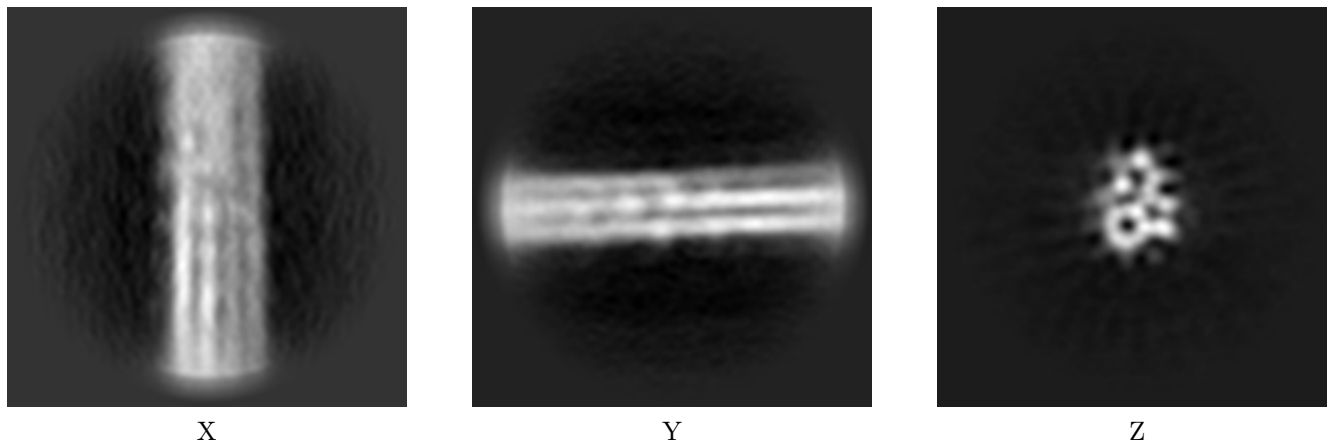
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-60913. These allow visual inspection of the internal detail of the map and identification of artifacts.

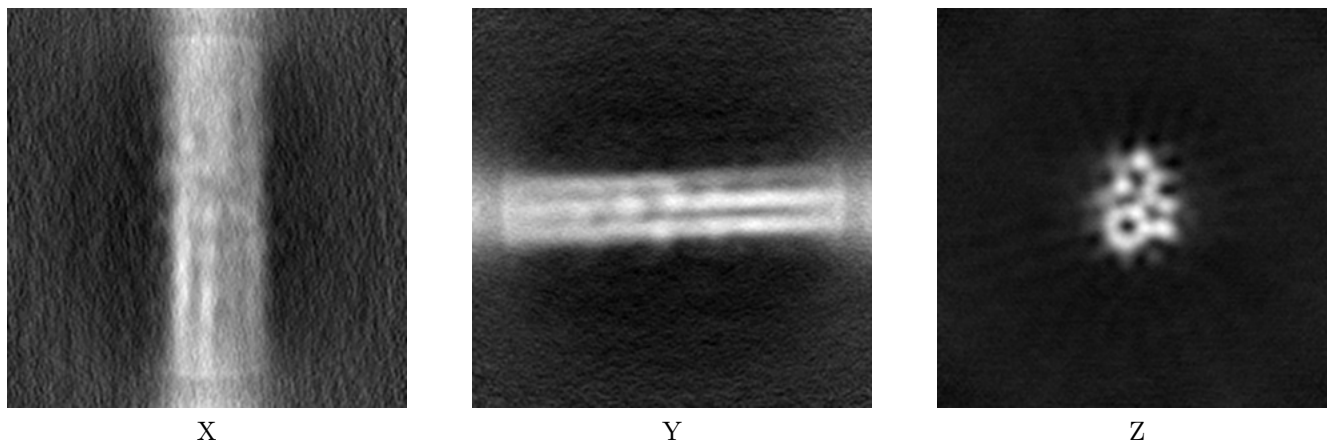
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



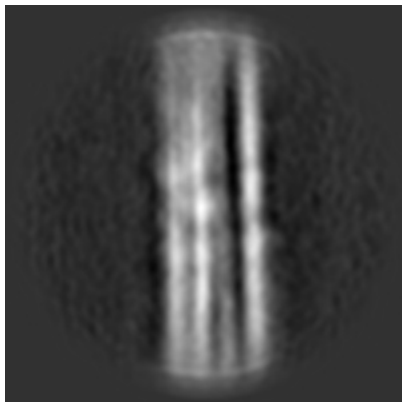
6.1.2 Raw map



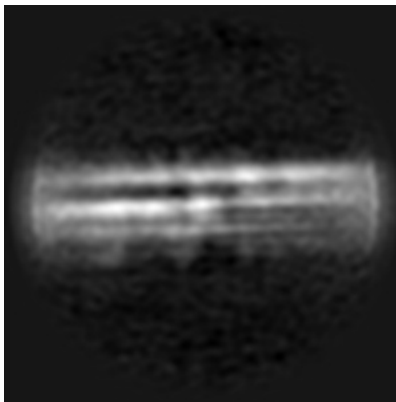
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

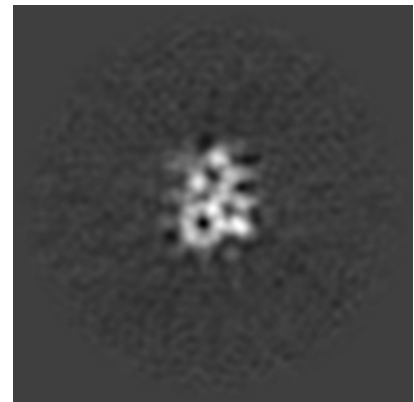
6.2.1 Primary map



X Index: 90

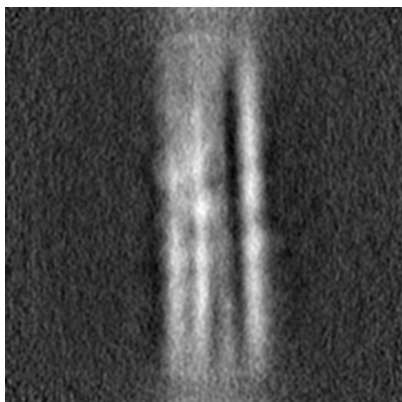


Y Index: 90

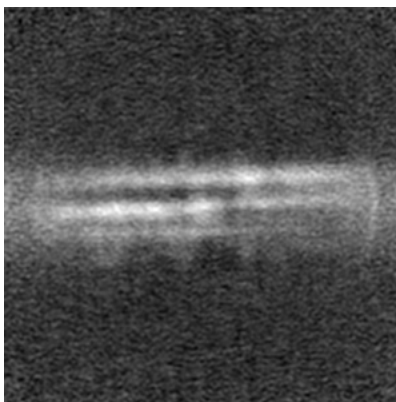


Z Index: 90

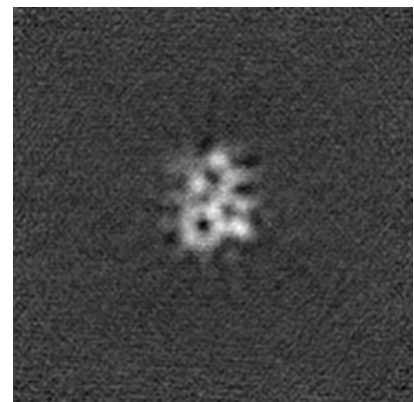
6.2.2 Raw map



X Index: 90



Y Index: 90

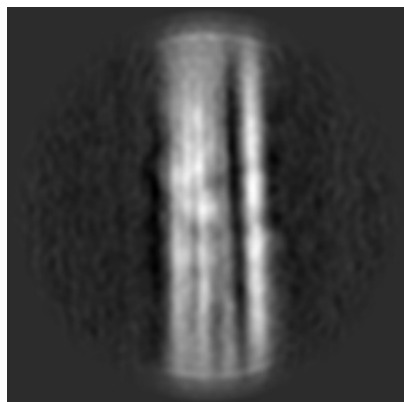


Z Index: 90

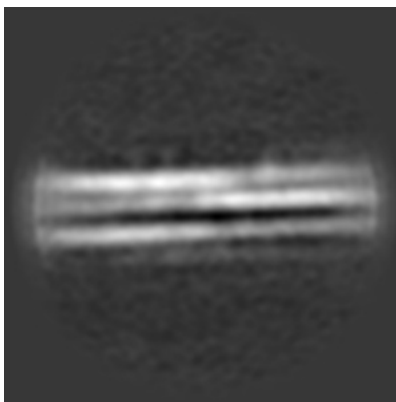
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

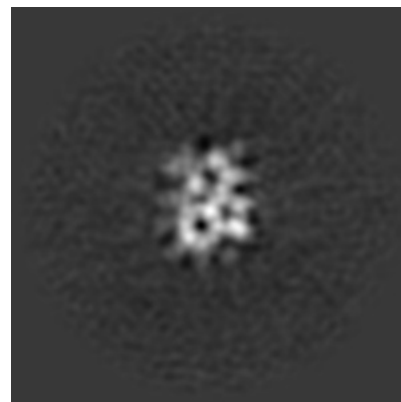
6.3.1 Primary map



X Index: 91

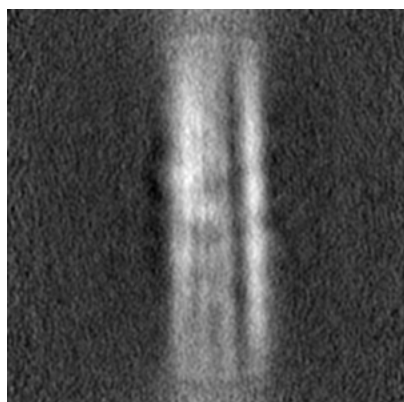


Y Index: 80

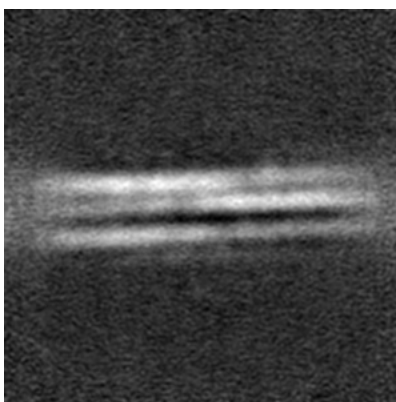


Z Index: 87

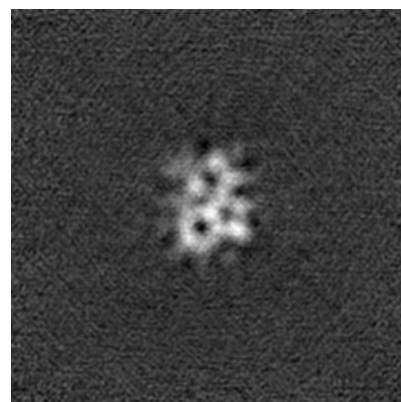
6.3.2 Raw map



X Index: 92



Y Index: 80

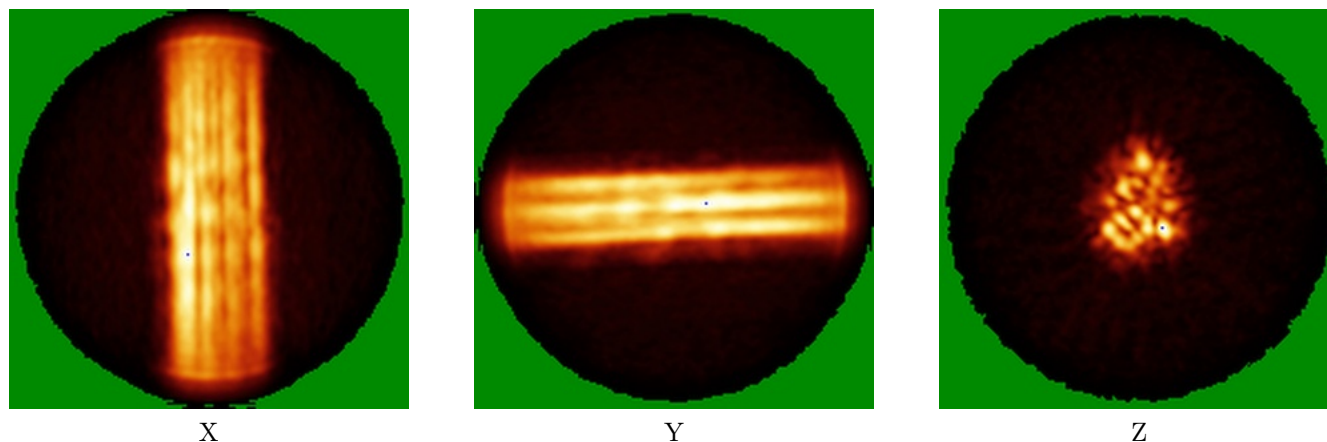


Z Index: 88

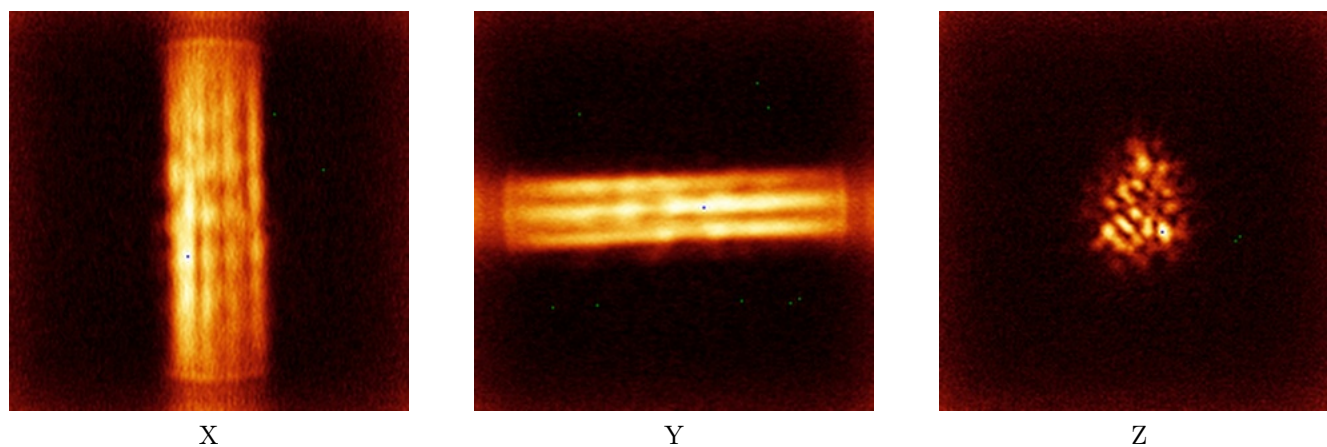
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

6.4.1 Primary map



6.4.2 Raw map



The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.97. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

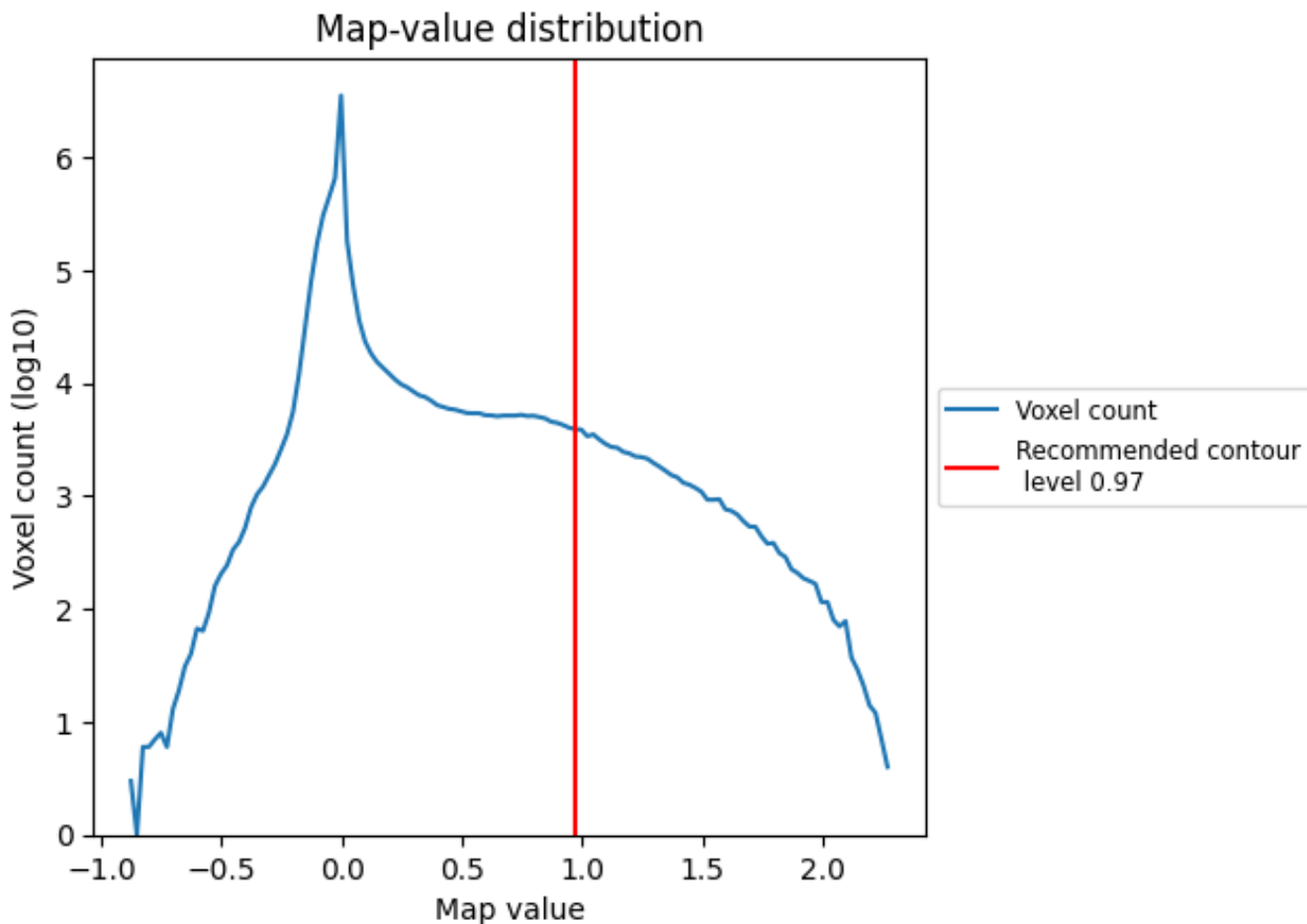
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

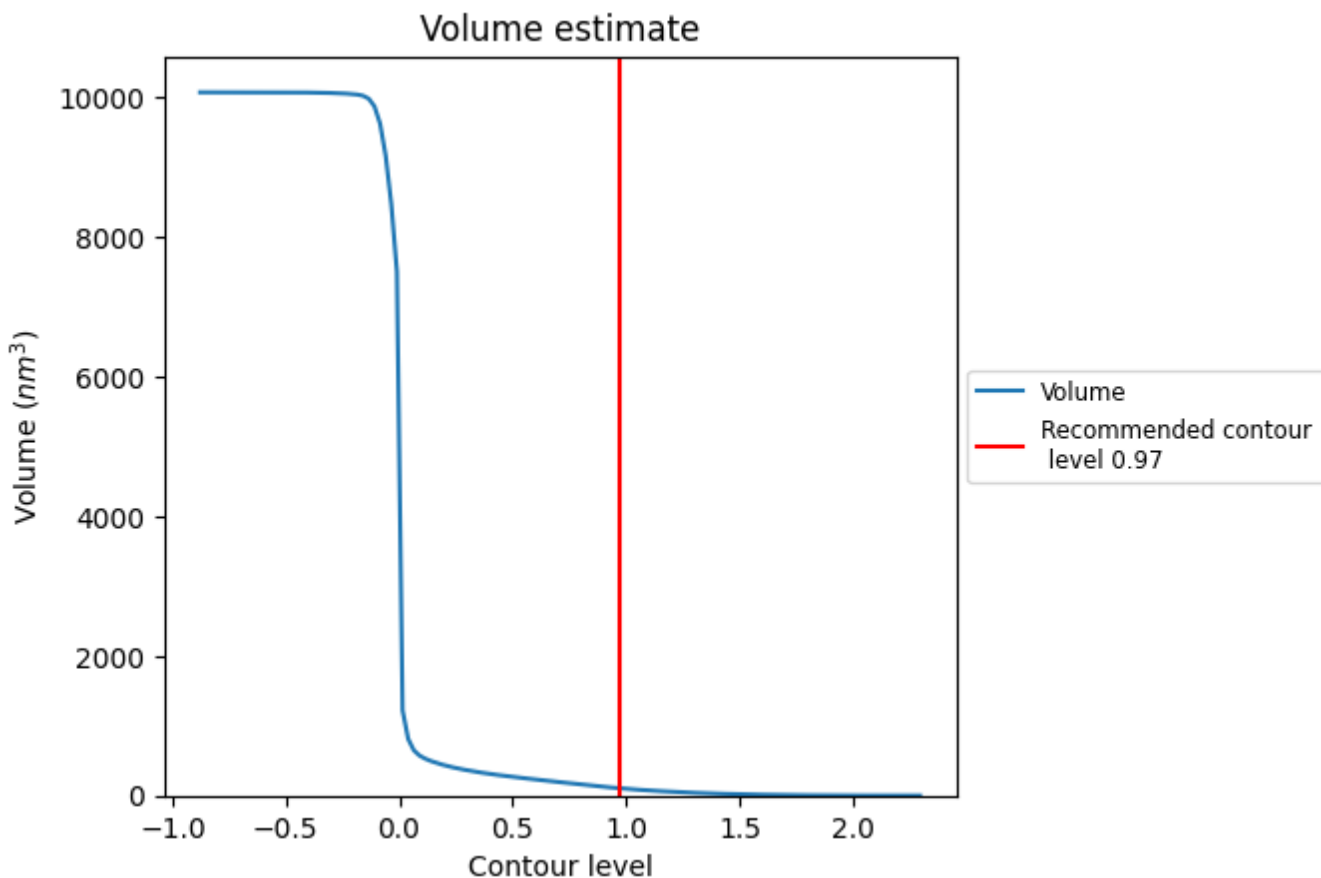
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

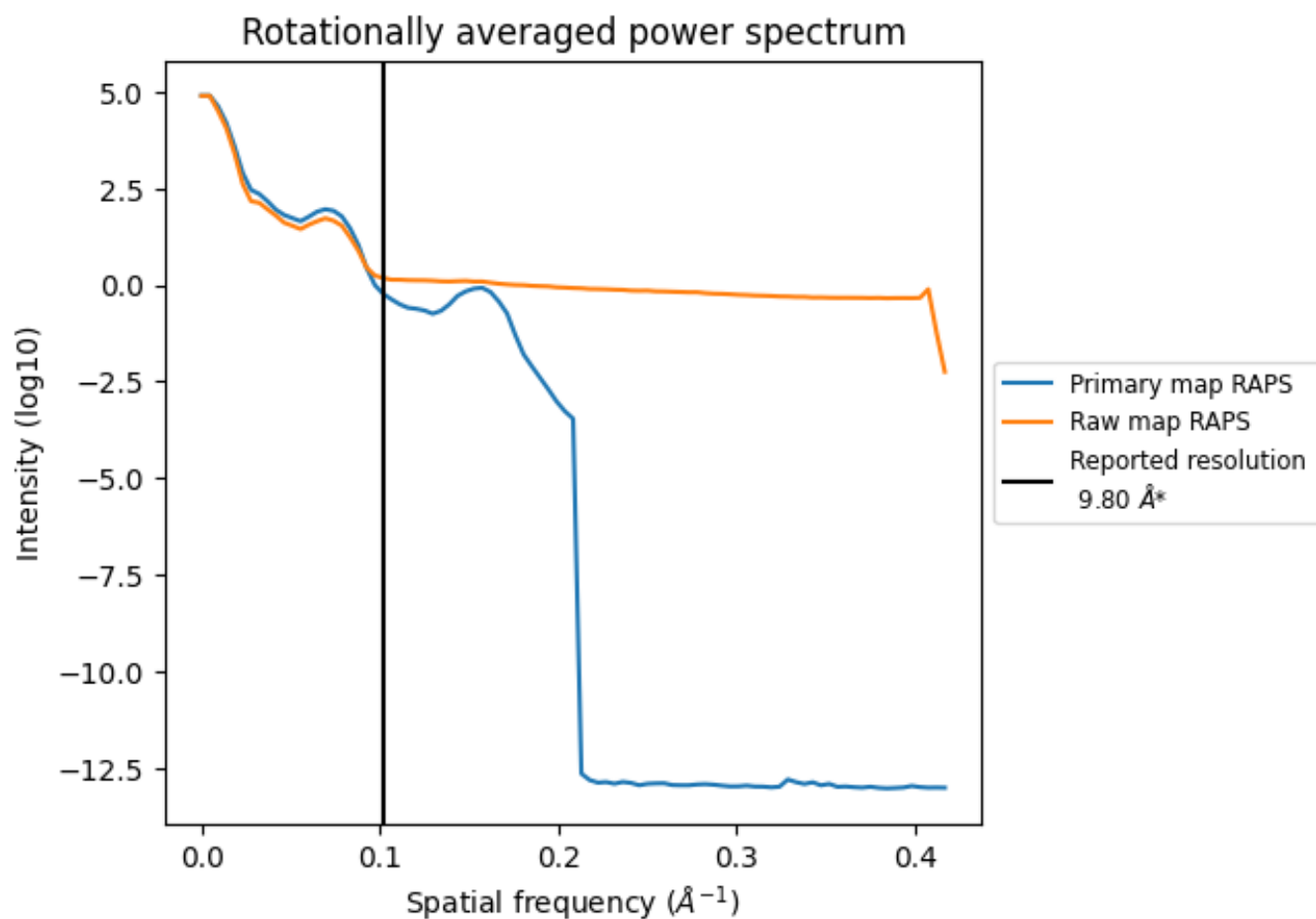
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 105 nm³; this corresponds to an approximate mass of 95 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

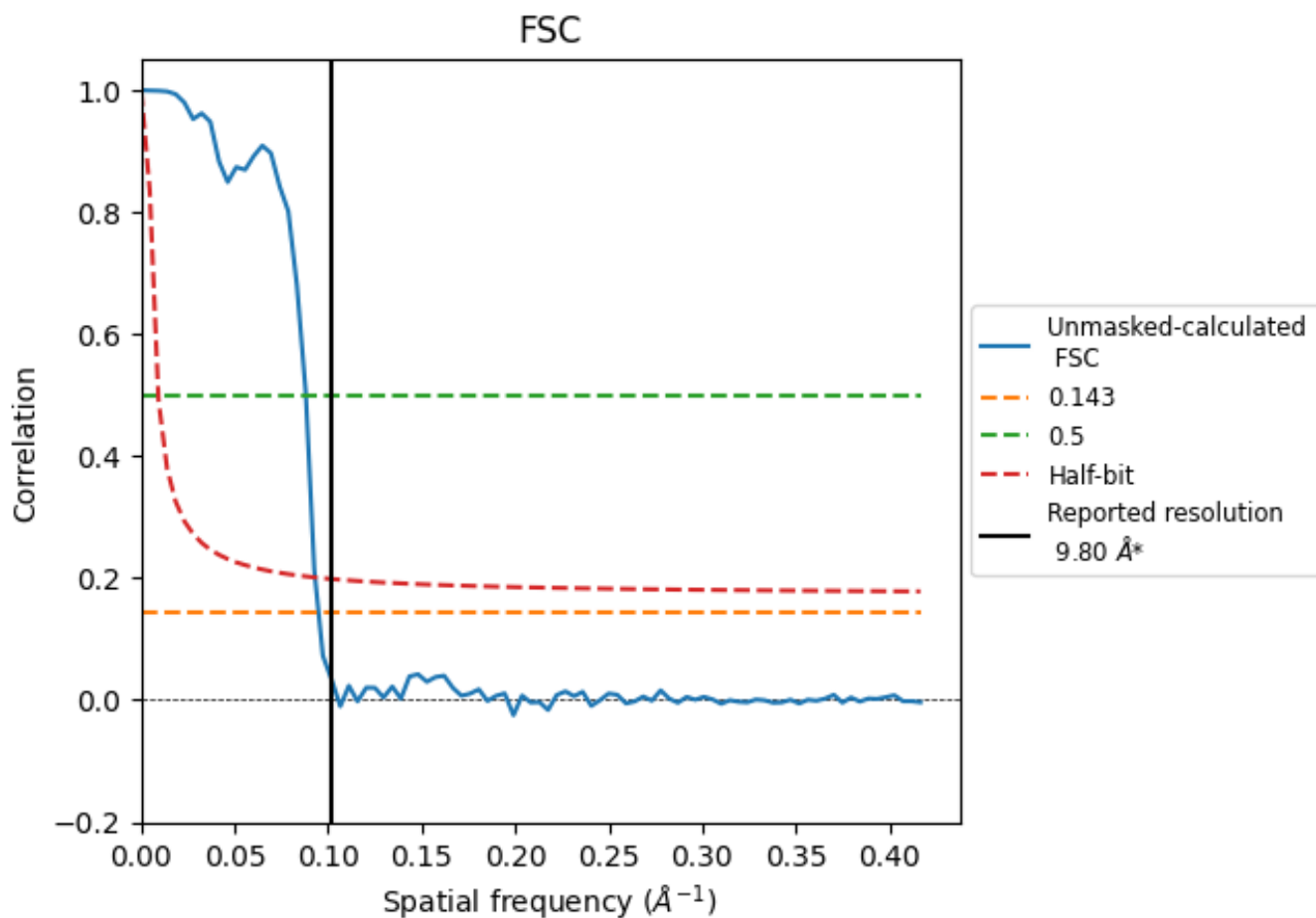


*Reported resolution corresponds to spatial frequency of 0.102 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.102 Å⁻¹

8.2 Resolution estimates [i](#)

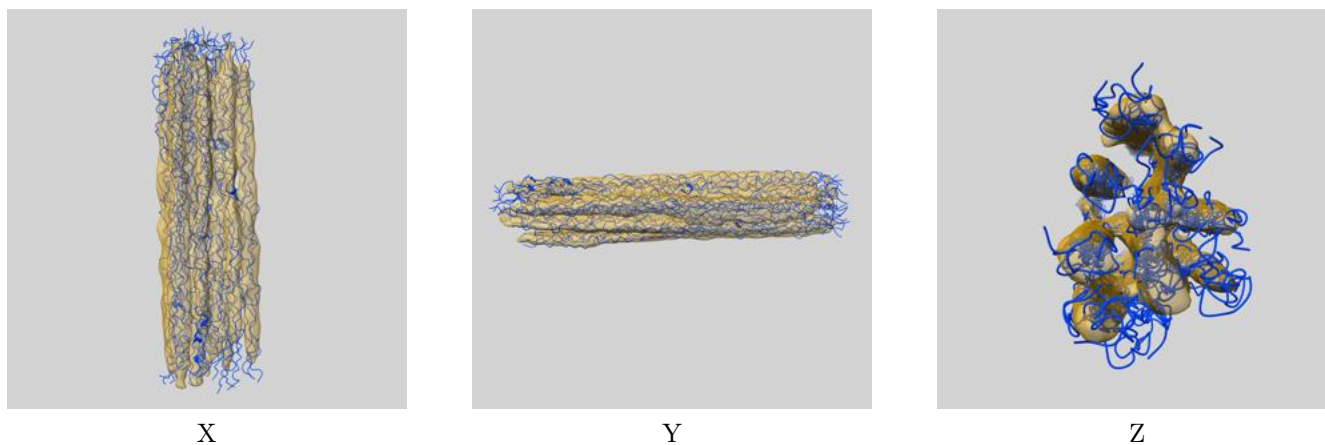
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	9.80	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	10.54	11.35	10.75

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

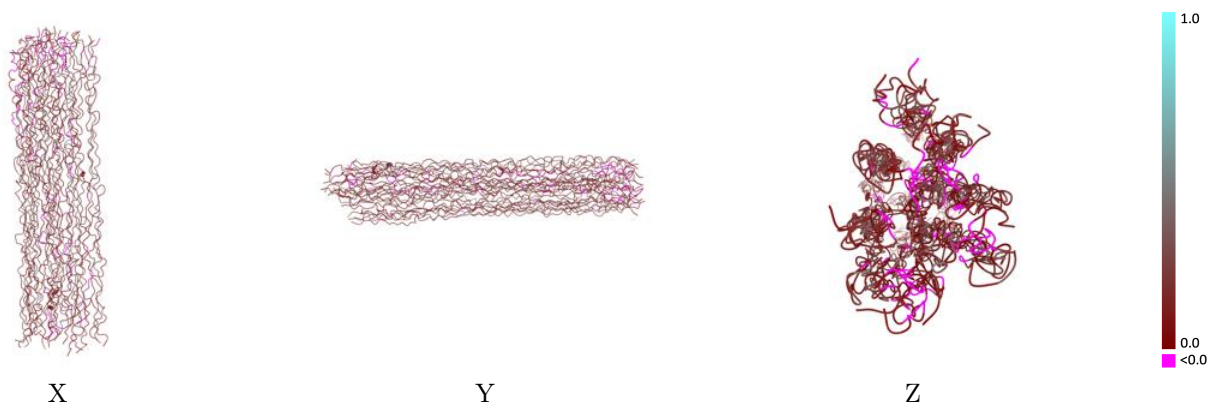
This section contains information regarding the fit between EMDB map EMD-60913 and PDB model 9IUS. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



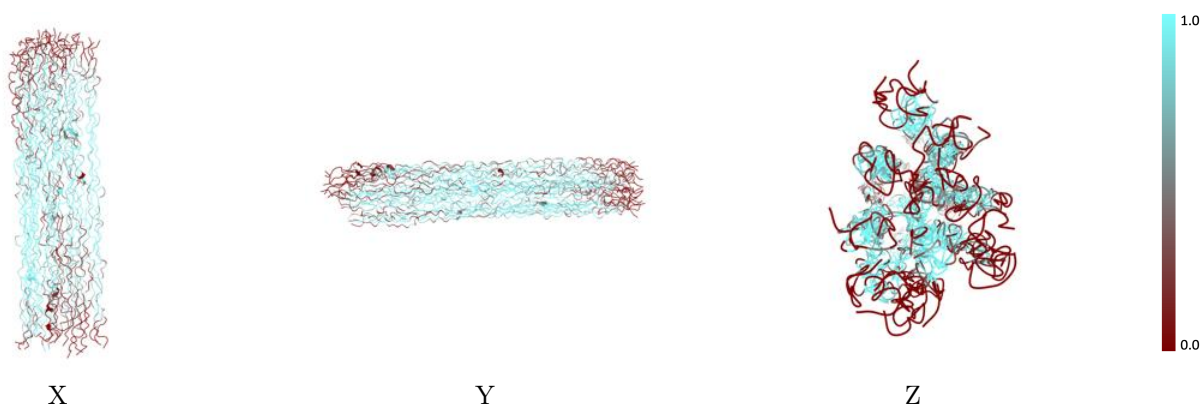
The images above show the 3D surface view of the map at the recommended contour level 0.97 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



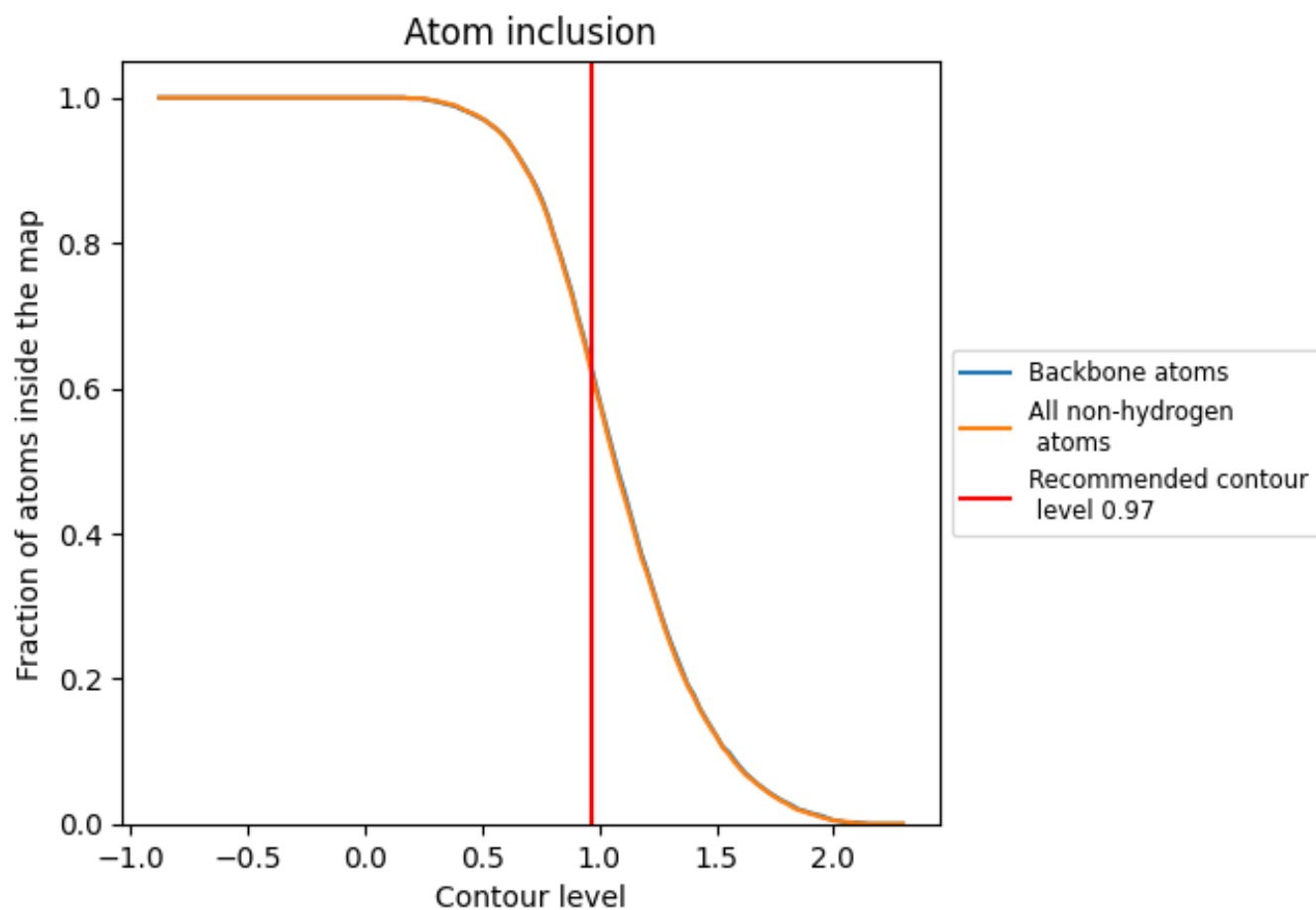
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.97).































































9.4 Atom inclusion [i](#)



At the recommended contour level, 62% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.97) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6170	 0.1700
1	 0.8550	 0.2110
2	 0.6240	 0.1710
3	 0.6060	 0.1970
4	 0.6250	 0.1350
A	 0.4460	 0.1280
B	 0.4390	 0.1220
C	 0.5070	 0.1720
D	 0.5240	 0.1260
E	 0.4680	 0.1650
F	 0.6730	 0.2080
G	 0.6810	 0.2030
H	 0.6300	 0.1650
I	 0.4410	 0.1040
J	 0.4750	 0.1310
K	 0.5730	 0.1890
L	 0.7020	 0.2090
M	 0.6990	 0.2000
N	 0.6390	 0.1660
O	 0.5340	 0.1210
P	 0.6280	 0.1980
Q	 0.6660	 0.1970
R	 0.7430	 0.1720
S	 0.7620	 0.1710
T	 0.7130	 0.2040
U	 0.6470	 0.1800
V	 0.5880	 0.1380
W	 0.5140	 0.1430
X	 0.5290	 0.1920
Y	 0.8630	 0.1950
Z	 0.8490	 0.2030

