



Full wwPDB NMR Structure Validation Report ⓘ

Jun 11, 2024 – 11:09 PM EDT

PDB ID : 2K7A
Title : Ensemble Structures of the binary complex between the SH3 and SH2 domain of interleukin-2 tyrosine kinase.
Authors : Andreotti, A.H.; Severin, A.J.; Fulton, D.B.
Deposited on : 2008-08-08

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

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:

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

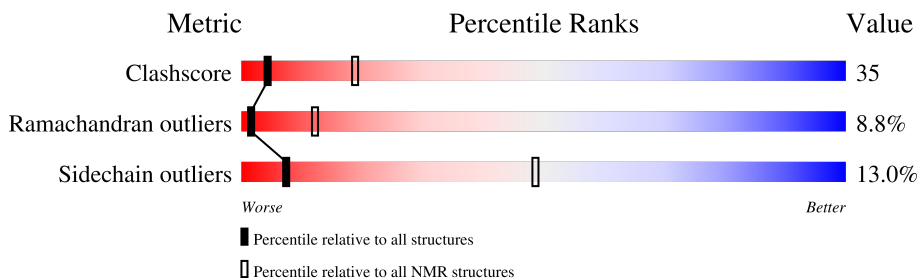
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

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)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	A	63	
2	B	110	

2 Ensemble composition and analysis

This entry contains 20 models. Model 6 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:171-A:184, A:188-A:231, B:232-B:297, B:302-B:339 (162)	0.83	6

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 3 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 4, 7, 10, 13, 15, 16, 17, 18, 19, 20
2	2, 5, 6, 8, 9, 11, 12
3	3, 14

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2749 atoms, of which 1345 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called SH3 domain of Tyrosine-protein kinase ITK/TSK.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	63	993	328	473	82	109	1	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	169	GLY	-	expression tag	UNP Q03526
A	170	SER	-	expression tag	UNP Q03526

- Molecule 2 is a protein called SH2 domain of Tyrosine-protein kinase ITK/TSK.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
2	B	108	1756	565	872	150	166	3	0

There are 3 discrepancies between the modelled and reference sequences:

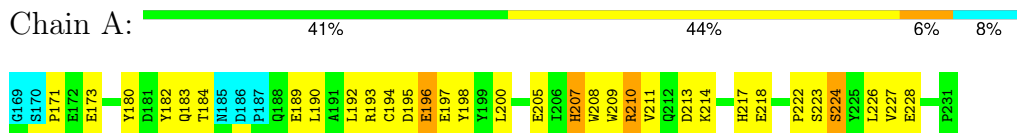
Chain	Residue	Modelled	Actual	Comment	Reference
B	230	GLY	-	expression tag	UNP Q03526
B	231	SER	-	expression tag	UNP Q03526
B	339	GLY	-	expression tag	UNP Q03526

4 Residue-property plots

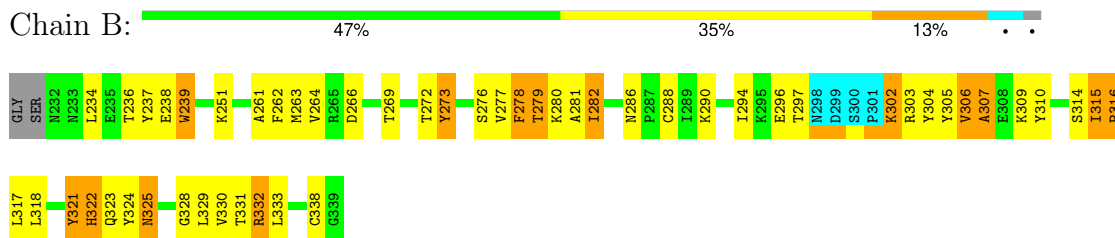
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

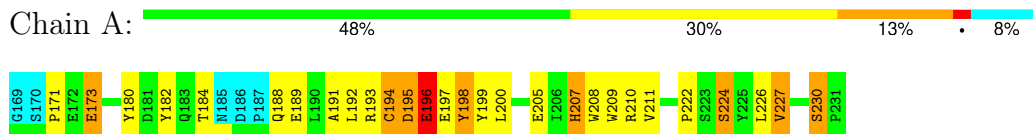


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

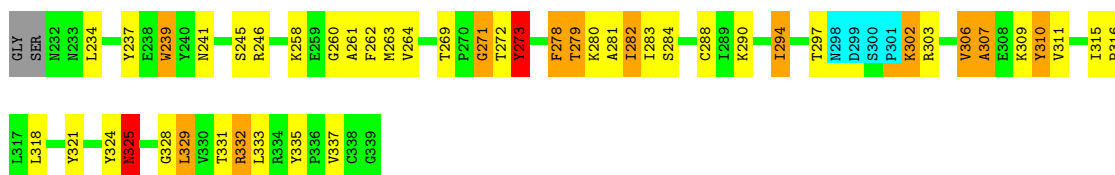
4.2.1 Score per residue for model 1

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



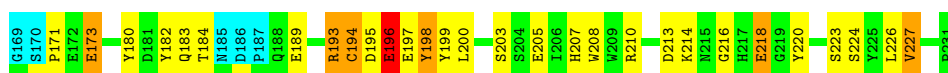
- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK





4.2.2 Score per residue for model 2

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

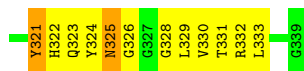
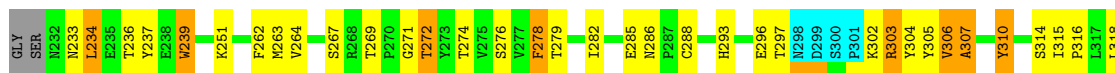


4.2.3 Score per residue for model 3

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

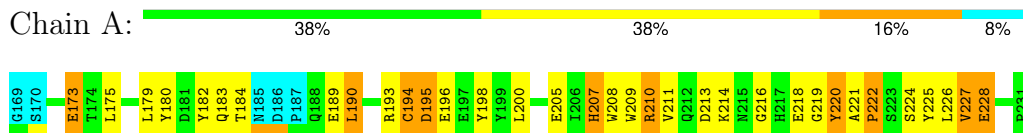


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

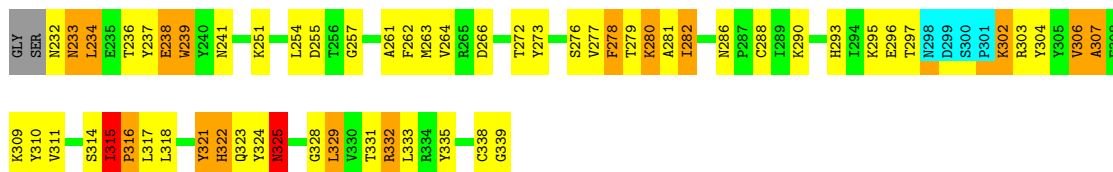


4.2.4 Score per residue for model 4

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

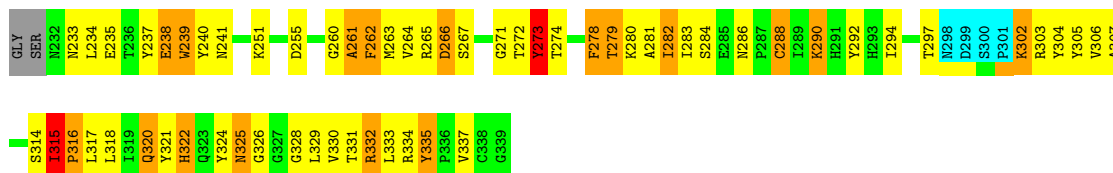


4.2.5 Score per residue for model 5

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



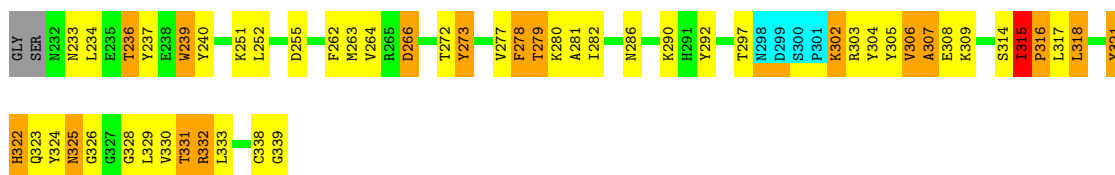
4.2.6 Score per residue for model 6 (medoid)

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



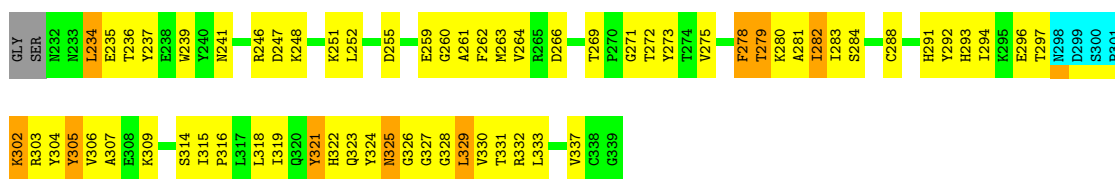


4.2.7 Score per residue for model 7

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

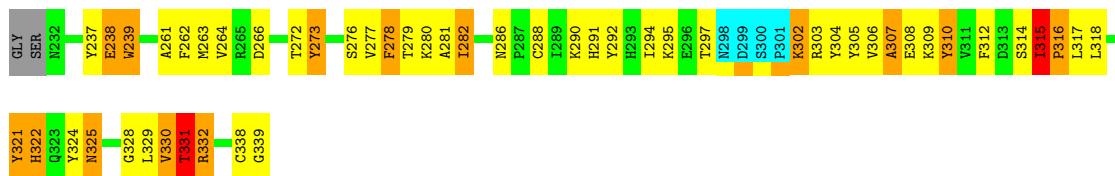


4.2.8 Score per residue for model 8

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

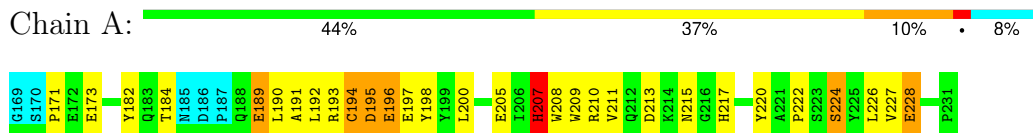


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

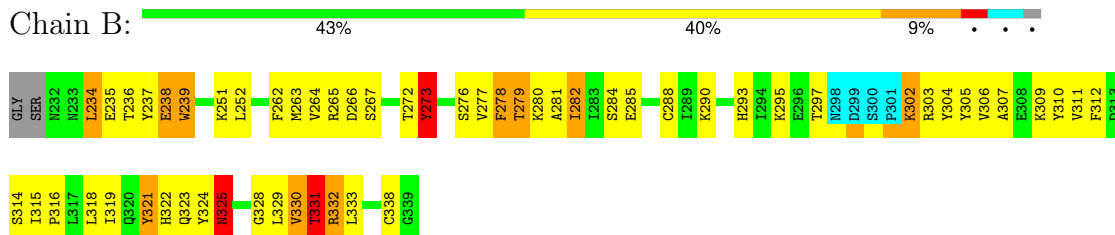


4.2.9 Score per residue for model 9

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

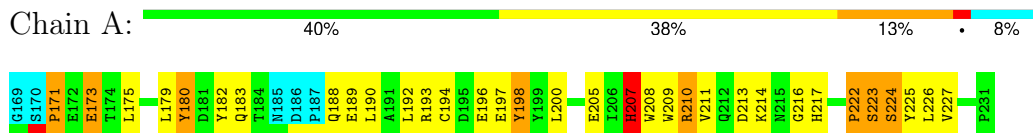


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

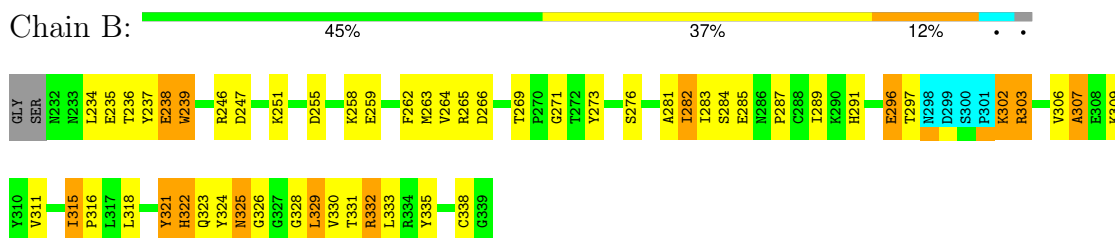


4.2.10 Score per residue for model 10

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

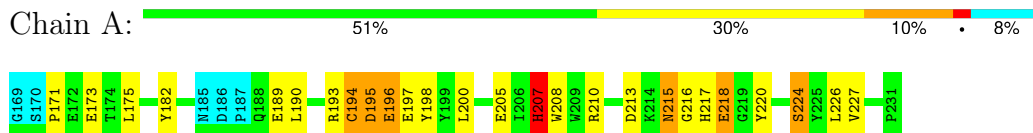


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



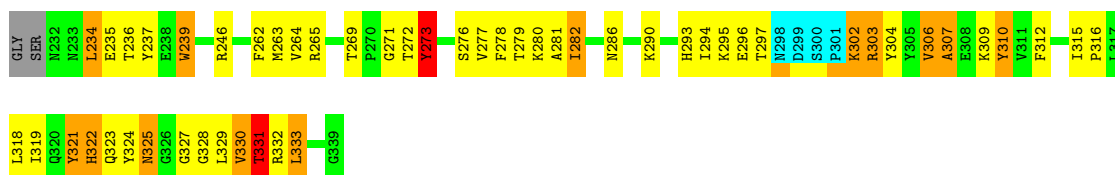
4.2.11 Score per residue for model 11

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



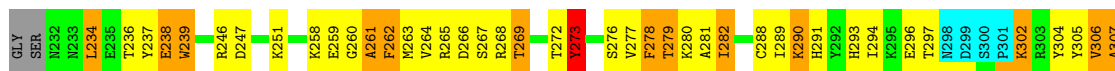


4.2.12 Score per residue for model 12

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

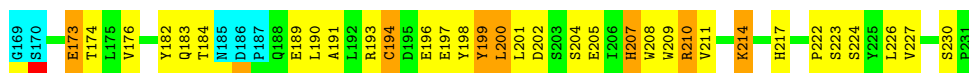


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



4.2.13 Score per residue for model 13

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

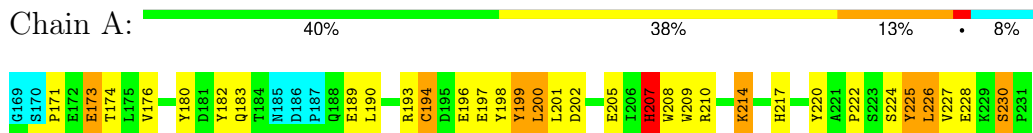


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

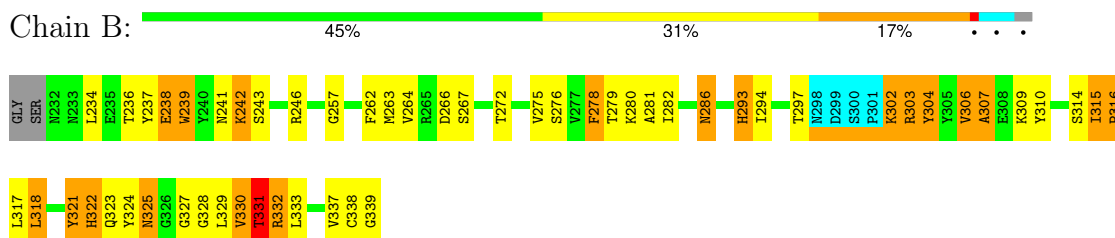


4.2.14 Score per residue for model 14

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

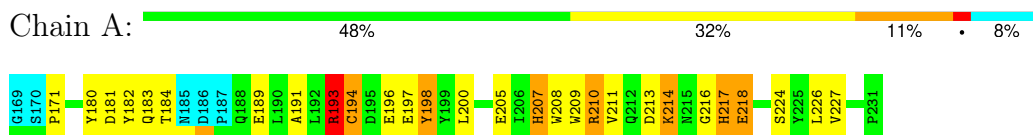


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

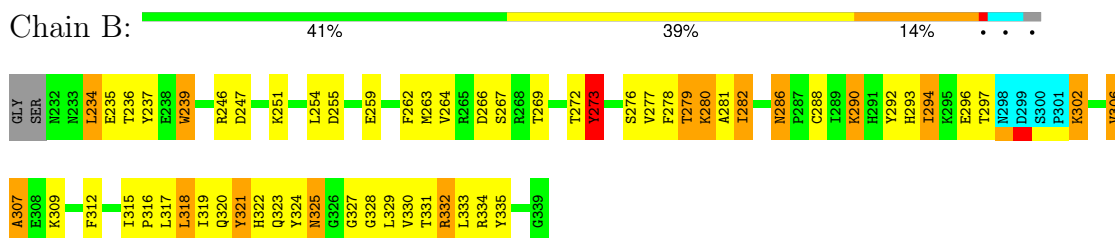


4.2.15 Score per residue for model 15

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

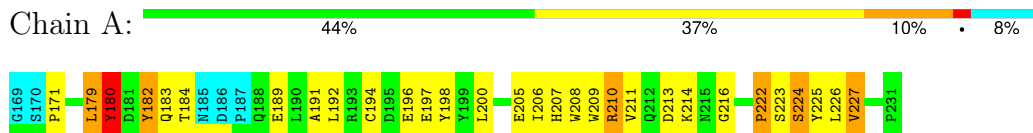


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



4.2.16 Score per residue for model 16

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



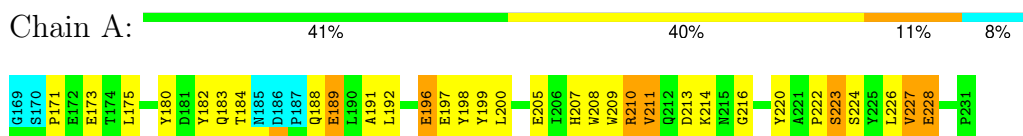
- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



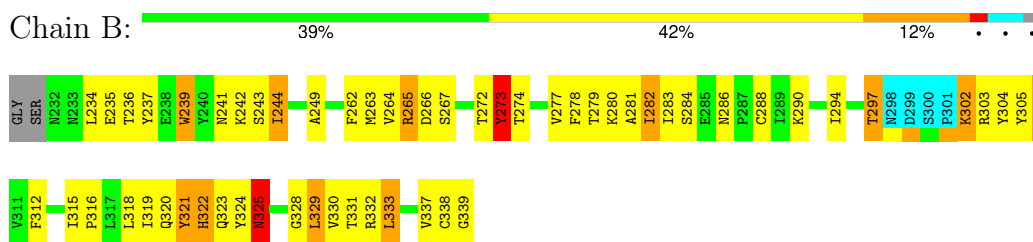


4.2.17 Score per residue for model 17

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

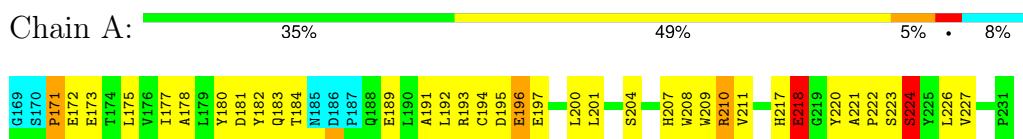


- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

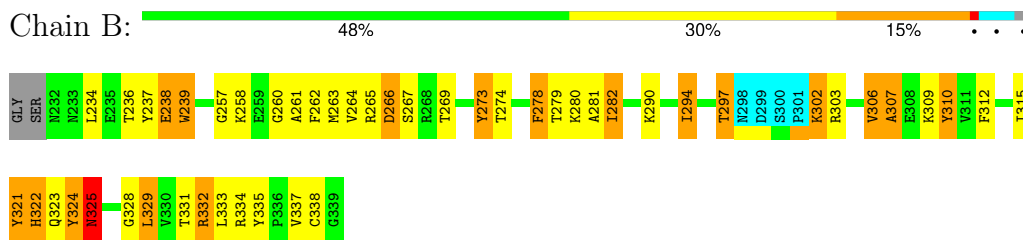


4.2.18 Score per residue for model 18

- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK



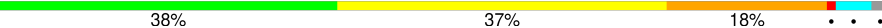
4.2.19 Score per residue for model 19

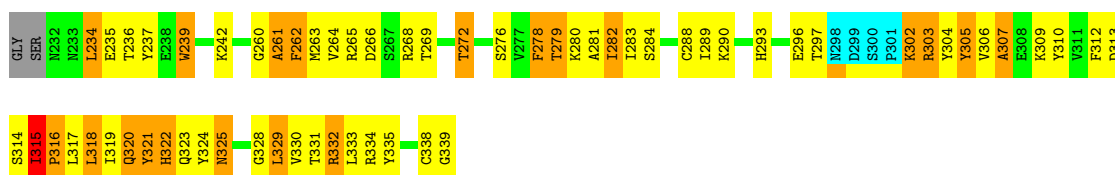
- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

Chain A:  49% 33% 10% 8%



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

Chain B:  38% 37% 18% . . .



4.2.20 Score per residue for model 20

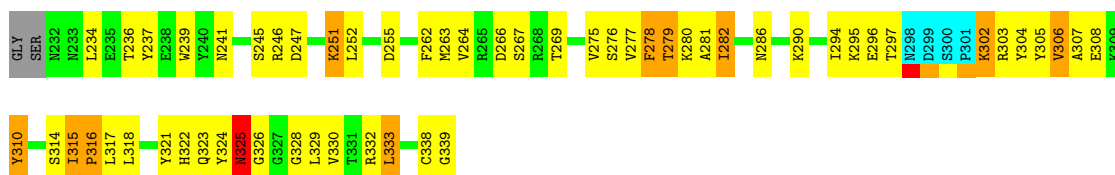
- Molecule 1: SH3 domain of Tyrosine-protein kinase ITK/TSK

Chain A:  41% 38% 10% 8%



- Molecule 2: SH2 domain of Tyrosine-protein kinase ITK/TSK

Chain B:  43% 42% 9% . . .



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 60 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
xplor-nih	refinement	2.19

No chemical shift data was provided.

6 Model quality

6.1 Standard geometry

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	487	446	446	36±6
2	B	855	850	848	62±6
All	All	26840	25920	25880	1871

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 35.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:277:VAL:HG21	2:B:292:TYR:CE2	0.91	2.00	15	1
2:B:277:VAL:HG21	2:B:292:TYR:CD2	0.90	2.00	15	1
1:A:175:LEU:O	1:A:176:VAL:HG13	0.86	1.71	20	2
2:B:292:TYR:CD2	2:B:329:LEU:HD22	0.84	2.06	15	3
1:A:224:SER:OG	2:B:330:VAL:HG21	0.81	1.75	15	8
1:A:224:SER:OG	2:B:330:VAL:HG11	0.80	1.76	11	5
1:A:222:PRO:O	1:A:226:LEU:HD13	0.79	1.77	17	3
1:A:209:TRP:O	1:A:210:ARG:O	0.76	2.04	12	12
1:A:208:TRP:HE1	2:B:328:GLY:C	0.76	1.84	2	19
2:B:318:LEU:O	2:B:318:LEU:HD23	0.76	1.80	9	17
2:B:324:TYR:CD2	2:B:325:ASN:ND2	0.75	2.55	18	3
1:A:194:CYS:O	1:A:195:ASP:CB	0.74	2.35	9	6
2:B:306:VAL:O	2:B:306:VAL:HG13	0.73	1.83	16	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:321:TYR:CE2	2:B:322:HIS:CD2	0.73	2.77	15	2
1:A:226:LEU:O	1:A:227:VAL:HG13	0.73	1.83	17	16
2:B:314:SER:O	2:B:316:PRO:N	0.72	2.23	12	11
1:A:222:PRO:O	1:A:226:LEU:HD12	0.72	1.83	20	12
2:B:330:VAL:HG22	2:B:330:VAL:O	0.72	1.82	14	4
1:A:208:TRP:CE2	2:B:329:LEU:O	0.71	2.43	7	5
1:A:179:LEU:HD23	1:A:225:TYR:O	0.71	1.84	4	2
2:B:306:VAL:O	2:B:306:VAL:HG23	0.71	1.86	2	11
1:A:201:LEU:HD12	1:A:201:LEU:N	0.71	2.01	13	2
1:A:180:TYR:CZ	1:A:225:TYR:CG	0.71	2.79	16	1
1:A:209:TRP:O	1:A:211:VAL:HG13	0.70	1.85	7	3
1:A:194:CYS:O	1:A:195:ASP:CG	0.70	2.29	9	4
1:A:208:TRP:CZ2	2:B:329:LEU:O	0.69	2.45	5	10
2:B:263:MET:HG3	2:B:264:VAL:H	0.68	1.46	1	14
2:B:325:ASN:ND2	2:B:325:ASN:N	0.68	2.41	18	4
1:A:180:TYR:CD2	1:A:225:TYR:CE1	0.68	2.81	16	1
2:B:263:MET:CG	2:B:264:VAL:H	0.68	2.01	17	9
2:B:273:TYR:H	2:B:294:ILE:HD11	0.67	1.49	18	3
1:A:210:ARG:O	1:A:211:VAL:HG13	0.67	1.90	5	8
2:B:291:HIS:O	2:B:292:TYR:CD1	0.66	2.49	8	2
1:A:180:TYR:CE2	1:A:225:TYR:CD1	0.66	2.84	16	1
1:A:190:LEU:HD22	1:A:217:HIS:O	0.66	1.91	10	1
2:B:306:VAL:O	2:B:307:ALA:HB3	0.66	1.91	9	3
2:B:324:TYR:CG	2:B:325:ASN:ND2	0.66	2.64	9	3
2:B:241:ASN:ND2	2:B:263:MET:SD	0.65	2.70	14	4
1:A:180:TYR:CE2	1:A:225:TYR:CE1	0.65	2.84	16	1
1:A:208:TRP:HE1	2:B:328:GLY:CA	0.65	2.04	15	12
2:B:315:ILE:H	2:B:315:ILE:HD12	0.65	1.52	14	2
1:A:182:TYR:CE1	1:A:183:GLN:O	0.64	2.51	7	6
1:A:196:GLU:OE1	1:A:196:GLU:N	0.64	2.30	3	2
1:A:198:TYR:CD1	1:A:198:TYR:N	0.64	2.65	15	7
1:A:180:TYR:CZ	1:A:225:TYR:CD1	0.64	2.86	16	1
1:A:192:LEU:HD22	1:A:198:TYR:OH	0.64	1.93	1	1
2:B:306:VAL:HG22	2:B:318:LEU:HD11	0.64	1.70	3	10
2:B:315:ILE:HD13	2:B:315:ILE:N	0.64	2.07	10	1
2:B:273:TYR:CD1	2:B:273:TYR:N	0.64	2.65	17	15
1:A:206:ILE:N	1:A:206:ILE:HD12	0.64	2.08	8	1
1:A:184:THR:OG1	1:A:191:ALA:N	0.63	2.31	17	9
2:B:315:ILE:O	2:B:317:LEU:N	0.63	2.32	19	11
2:B:318:LEU:HD21	2:B:322:HIS:CE1	0.63	2.28	3	2
2:B:263:MET:CG	2:B:264:VAL:N	0.63	2.62	17	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:315:ILE:N	2:B:316:PRO:CD	0.63	2.61	9	9
1:A:215:ASN:ND2	1:A:217:HIS:NE2	0.63	2.46	11	1
2:B:304:TYR:CD1	2:B:304:TYR:N	0.63	2.63	3	11
2:B:306:VAL:HG12	2:B:318:LEU:HD11	0.62	1.71	16	2
1:A:180:TYR:N	1:A:180:TYR:CD1	0.62	2.66	16	7
1:A:193:ARG:O	1:A:196:GLU:HB3	0.62	1.95	3	5
1:A:214:LYS:H	1:A:214:LYS:HZ3	0.62	1.36	10	2
2:B:279:THR:O	2:B:279:THR:HG23	0.62	1.93	8	3
2:B:237:TYR:CG	2:B:239:TRP:CZ2	0.62	2.87	17	20
2:B:278:PHE:CD1	2:B:279:THR:N	0.62	2.67	8	19
2:B:324:TYR:CD1	2:B:324:TYR:N	0.62	2.67	9	4
2:B:322:HIS:CE1	2:B:328:GLY:H	0.62	2.13	3	3
2:B:328:GLY:O	2:B:329:LEU:HD22	0.62	1.94	17	2
2:B:310:TYR:CD1	2:B:310:TYR:N	0.62	2.68	2	11
1:A:223:SER:H	2:B:330:VAL:HG12	0.62	1.53	2	1
1:A:175:LEU:HD12	1:A:175:LEU:N	0.62	2.10	17	6
2:B:324:TYR:CE2	2:B:325:ASN:ND2	0.61	2.68	9	3
2:B:282:ILE:HD12	2:B:288:CYS:SG	0.61	2.36	5	10
1:A:179:LEU:HD21	1:A:227:VAL:CG2	0.61	2.24	4	1
1:A:228:GLU:N	1:A:228:GLU:CD	0.61	2.54	9	5
2:B:244:ILE:HG21	2:B:265:ARG:NE	0.61	2.11	17	1
2:B:333:LEU:H	2:B:333:LEU:HD12	0.61	1.55	17	3
2:B:266:ASP:OD1	2:B:266:ASP:N	0.61	2.34	6	4
2:B:306:VAL:O	2:B:307:ALA:HB2	0.61	1.95	11	12
2:B:322:HIS:CE1	2:B:329:LEU:HD23	0.61	2.31	11	5
1:A:184:THR:OG1	1:A:191:ALA:HB2	0.60	1.96	13	2
2:B:322:HIS:CE1	2:B:328:GLY:N	0.60	2.69	10	2
2:B:292:TYR:OH	2:B:330:VAL:HG12	0.60	1.97	15	1
1:A:197:GLU:O	1:A:198:TYR:CD1	0.60	2.54	3	5
1:A:182:TYR:CD1	1:A:183:GLN:N	0.60	2.70	3	3
2:B:240:TYR:CE1	2:B:266:ASP:OD1	0.60	2.55	6	1
1:A:190:LEU:HD21	1:A:217:HIS:O	0.60	1.97	14	7
1:A:199:TYR:CE2	1:A:214:LYS:NZ	0.59	2.67	2	1
2:B:315:ILE:HB	2:B:316:PRO:CD	0.59	2.27	12	11
1:A:175:LEU:C	1:A:176:VAL:HG22	0.59	2.17	20	2
1:A:192:LEU:HD11	1:A:222:PRO:HD2	0.59	1.75	7	6
2:B:273:TYR:N	2:B:294:ILE:HD11	0.59	2.12	13	5
2:B:324:TYR:O	2:B:326:GLY:N	0.59	2.36	3	5
1:A:174:THR:HG23	1:A:175:LEU:N	0.59	2.12	20	1
2:B:321:TYR:CE2	2:B:322:HIS:NE2	0.58	2.71	15	1
2:B:325:ASN:N	2:B:325:ASN:HD22	0.58	1.95	18	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:196:GLU:OE1	1:A:198:TYR:CE1	0.58	2.57	17	3
1:A:199:TYR:O	1:A:211:VAL:HG12	0.58	1.99	17	2
2:B:237:TYR:CD2	2:B:239:TRP:CZ2	0.58	2.91	20	14
1:A:182:TYR:CD2	1:A:183:GLN:N	0.58	2.71	14	6
2:B:288:CYS:SG	2:B:290:LYS:NZ	0.58	2.76	5	1
1:A:208:TRP:NE1	2:B:328:GLY:C	0.58	2.57	14	5
2:B:282:ILE:HD12	2:B:288:CYS:CB	0.58	2.29	8	10
2:B:307:ALA:HB2	2:B:328:GLY:O	0.58	1.99	7	1
2:B:297:THR:OG1	2:B:297:THR:O	0.57	2.19	13	1
1:A:193:ARG:O	1:A:195:ASP:N	0.57	2.37	9	3
2:B:279:THR:O	2:B:281:ALA:N	0.57	2.38	7	15
1:A:205:GLU:OE1	1:A:207:HIS:NE2	0.57	2.38	8	14
2:B:297:THR:O	2:B:302:LYS:O	0.57	2.22	1	9
1:A:182:TYR:CZ	1:A:183:GLN:O	0.57	2.58	10	8
1:A:178:ALA:HB3	1:A:196:GLU:OE2	0.57	2.00	3	1
2:B:321:TYR:CZ	2:B:326:GLY:O	0.57	2.57	20	2
1:A:214:LYS:H	1:A:214:LYS:NZ	0.57	1.98	10	1
1:A:182:TYR:CG	1:A:183:GLN:N	0.57	2.73	14	10
1:A:224:SER:CB	2:B:330:VAL:HG21	0.57	2.29	7	5
1:A:194:CYS:C	1:A:196:GLU:H	0.56	2.03	18	7
1:A:193:ARG:O	1:A:194:CYS:C	0.56	2.42	3	9
1:A:189:GLU:OE1	1:A:208:TRP:CZ3	0.56	2.58	14	5
2:B:297:THR:O	2:B:297:THR:OG1	0.56	2.21	2	1
2:B:314:SER:O	2:B:315:ILE:C	0.56	2.43	8	11
1:A:196:GLU:OE1	1:A:197:GLU:N	0.56	2.39	7	3
2:B:310:TYR:CE1	2:B:321:TYR:OH	0.56	2.55	16	3
2:B:315:ILE:O	2:B:318:LEU:N	0.56	2.25	13	8
2:B:321:TYR:O	2:B:325:ASN:ND2	0.56	2.39	20	5
1:A:210:ARG:NE	1:A:220:TYR:CZ	0.56	2.74	11	1
1:A:205:GLU:OE1	1:A:207:HIS:CD2	0.56	2.59	9	2
2:B:321:TYR:HH	2:B:322:HIS:CE1	0.56	2.18	2	4
2:B:258:LYS:NZ	2:B:335:TYR:CZ	0.56	2.73	1	1
2:B:315:ILE:N	2:B:315:ILE:HD13	0.56	2.16	3	1
2:B:233:ASN:C	2:B:235:GLU:H	0.56	2.04	5	1
1:A:195:ASP:O	1:A:196:GLU:O	0.55	2.24	3	4
1:A:182:TYR:CE2	1:A:183:GLN:O	0.55	2.59	15	7
1:A:196:GLU:OE1	1:A:198:TYR:CZ	0.55	2.59	16	4
2:B:324:TYR:CG	2:B:325:ASN:N	0.55	2.75	1	3
2:B:324:TYR:O	2:B:325:ASN:C	0.55	2.45	3	20
1:A:189:GLU:N	1:A:189:GLU:OE1	0.55	2.39	15	4
1:A:214:LYS:H	1:A:214:LYS:CE	0.55	2.15	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:175:LEU:O	1:A:176:VAL:CG1	0.55	2.51	20	2
2:B:297:THR:O	2:B:297:THR:HG23	0.55	2.00	11	1
2:B:329:LEU:HD11	2:B:333:LEU:CD1	0.55	2.32	5	3
1:A:197:GLU:O	1:A:214:LYS:CE	0.55	2.54	6	4
1:A:180:TYR:N	1:A:180:TYR:HD1	0.55	1.99	16	1
2:B:297:THR:HG22	2:B:303:ARG:O	0.55	2.02	18	1
2:B:277:VAL:N	2:B:290:LYS:O	0.55	2.39	16	10
1:A:194:CYS:O	1:A:195:ASP:HB2	0.55	2.00	9	1
2:B:330:VAL:O	2:B:330:VAL:CG2	0.55	2.55	14	4
2:B:250:GLU:O	2:B:253:LEU:N	0.54	2.38	16	1
2:B:306:VAL:O	2:B:307:ALA:CB	0.54	2.55	9	12
2:B:304:TYR:CG	2:B:315:ILE:HD13	0.54	2.37	5	1
2:B:306:VAL:O	2:B:306:VAL:CG1	0.54	2.55	16	3
2:B:278:PHE:C	2:B:278:PHE:CD1	0.54	2.80	18	3
2:B:321:TYR:O	2:B:321:TYR:CD1	0.54	2.60	3	9
1:A:209:TRP:CH2	1:A:223:SER:OG	0.54	2.59	13	4
2:B:297:THR:N	2:B:303:ARG:O	0.54	2.41	7	3
2:B:323:GLN:O	2:B:333:LEU:O	0.54	2.25	18	15
2:B:316:PRO:O	2:B:320:GLN:NE2	0.54	2.41	12	3
2:B:262:PHE:CZ	2:B:319:ILE:HD12	0.54	2.38	19	1
2:B:282:ILE:HD11	2:B:290:LYS:NZ	0.54	2.16	19	2
1:A:222:PRO:O	1:A:226:LEU:CD1	0.54	2.56	18	12
1:A:197:GLU:O	1:A:214:LYS:NZ	0.54	2.41	6	6
2:B:328:GLY:O	2:B:329:LEU:HD23	0.54	2.02	5	2
1:A:214:LYS:CD	1:A:214:LYS:H	0.54	2.16	19	5
2:B:259:GLU:OE2	2:B:280:LYS:N	0.54	2.41	15	1
2:B:312:PHE:CZ	2:B:321:TYR:CD1	0.54	2.95	18	1
1:A:202:ASP:C	1:A:204:SER:H	0.54	2.06	3	1
2:B:296:GLU:N	2:B:296:GLU:OE1	0.54	2.40	15	1
1:A:176:VAL:CG2	1:A:198:TYR:O	0.54	2.56	14	2
1:A:193:ARG:N	1:A:196:GLU:OE1	0.54	2.41	12	1
1:A:193:ARG:H	1:A:196:GLU:CD	0.53	2.05	12	1
1:A:196:GLU:OE1	1:A:214:LYS:NZ	0.53	2.38	15	1
1:A:215:ASN:ND2	1:A:215:ASN:O	0.53	2.40	11	1
1:A:201:LEU:N	1:A:201:LEU:CD1	0.53	2.71	13	1
2:B:338:CYS:SG	2:B:339:GLY:N	0.53	2.81	20	9
2:B:319:ILE:O	2:B:319:ILE:HG22	0.53	2.02	18	4
1:A:189:GLU:OE2	1:A:208:TRP:CZ3	0.53	2.62	9	1
1:A:197:GLU:C	1:A:198:TYR:CD1	0.53	2.81	8	4
2:B:238:GLU:CD	2:B:238:GLU:N	0.53	2.62	5	11
2:B:314:SER:O	2:B:316:PRO:CD	0.53	2.57	12	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:259:GLU:N	2:B:259:GLU:OE1	0.53	2.42	10	2
1:A:189:GLU:OE2	1:A:208:TRP:CE3	0.53	2.61	9	1
2:B:277:VAL:HG23	2:B:290:LYS:O	0.53	2.02	15	1
2:B:333:LEU:HD12	2:B:333:LEU:N	0.53	2.19	14	10
2:B:284:SER:OG	2:B:285:GLU:N	0.53	2.40	9	1
2:B:324:TYR:CD2	2:B:325:ASN:N	0.53	2.76	1	2
2:B:265:ARG:O	2:B:274:THR:N	0.53	2.42	18	3
2:B:266:ASP:OD1	2:B:267:SER:N	0.53	2.41	20	4
2:B:263:MET:SD	2:B:337:VAL:O	0.53	2.67	1	4
1:A:207:HIS:CD2	1:A:208:TRP:H	0.53	2.22	2	4
2:B:321:TYR:OH	2:B:322:HIS:CE1	0.53	2.62	13	4
1:A:194:CYS:O	1:A:196:GLU:N	0.53	2.41	18	7
2:B:258:LYS:NZ	2:B:335:TYR:CE1	0.53	2.72	18	2
2:B:263:MET:HG3	2:B:264:VAL:N	0.53	2.19	14	3
2:B:249:ALA:HB2	2:B:265:ARG:HE	0.53	1.62	17	1
1:A:196:GLU:N	1:A:196:GLU:CD	0.53	2.62	1	2
2:B:263:MET:O	2:B:276:SER:N	0.53	2.42	15	14
2:B:312:PHE:CZ	2:B:321:TYR:CD2	0.53	2.96	8	5
2:B:233:ASN:O	2:B:240:TYR:CE2	0.52	2.62	5	1
1:A:193:ARG:NH2	1:A:213:ASP:OD2	0.52	2.42	15	1
1:A:189:GLU:OE2	1:A:208:TRP:CZ2	0.52	2.62	12	2
2:B:331:THR:O	2:B:332:ARG:C	0.52	2.47	19	10
1:A:189:GLU:OE2	2:B:332:ARG:NH2	0.52	2.41	18	1
2:B:321:TYR:O	2:B:325:ASN:OD1	0.52	2.28	20	3
2:B:262:PHE:C	2:B:262:PHE:CD1	0.52	2.83	6	10
2:B:304:TYR:CD2	2:B:315:ILE:HD13	0.52	2.40	6	5
2:B:272:THR:O	2:B:293:HIS:NE2	0.52	2.42	12	3
1:A:208:TRP:CD1	2:B:328:GLY:O	0.52	2.62	11	2
1:A:189:GLU:OE1	1:A:208:TRP:CH2	0.52	2.62	19	1
1:A:196:GLU:N	1:A:196:GLU:OE1	0.52	2.42	1	1
2:B:317:LEU:O	2:B:320:GLN:N	0.52	2.33	19	3
1:A:196:GLU:OE2	1:A:214:LYS:NZ	0.52	2.42	16	1
1:A:211:VAL:HG22	1:A:219:GLY:O	0.52	2.04	4	1
2:B:320:GLN:N	2:B:320:GLN:OE1	0.52	2.42	12	1
2:B:306:VAL:O	2:B:306:VAL:CG2	0.52	2.58	1	7
2:B:331:THR:O	2:B:332:ARG:O	0.52	2.28	9	7
1:A:197:GLU:C	1:A:198:TYR:CG	0.52	2.83	3	4
2:B:278:PHE:CD1	2:B:278:PHE:C	0.52	2.83	8	16
2:B:295:LYS:O	2:B:303:ARG:O	0.52	2.28	9	5
2:B:275:VAL:CG2	2:B:294:ILE:HD11	0.52	2.35	14	3
1:A:218:GLU:N	1:A:218:GLU:OE1	0.51	2.44	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:224:SER:O	1:A:226:LEU:N	0.51	2.40	14	3
2:B:322:HIS:CD2	2:B:329:LEU:HD23	0.51	2.39	9	1
2:B:333:LEU:H	2:B:333:LEU:CD1	0.51	2.19	9	2
2:B:315:ILE:N	2:B:316:PRO:HD2	0.51	2.20	9	9
1:A:190:LEU:HD21	1:A:219:GLY:N	0.51	2.21	4	1
2:B:272:THR:CG2	2:B:294:ILE:O	0.51	2.58	12	4
1:A:193:ARG:O	1:A:196:GLU:CD	0.51	2.48	12	2
2:B:321:TYR:CE2	2:B:322:HIS:CE1	0.51	2.98	10	5
2:B:321:TYR:CD2	2:B:322:HIS:CD2	0.51	2.99	3	1
1:A:208:TRP:NE1	2:B:328:GLY:O	0.51	2.44	9	2
2:B:258:LYS:NZ	2:B:335:TYR:OH	0.51	2.43	10	1
1:A:177:ILE:HG23	1:A:196:GLU:O	0.51	2.06	18	1
1:A:223:SER:H	2:B:330:VAL:CG1	0.51	2.18	3	2
2:B:314:SER:C	2:B:316:PRO:HD2	0.51	2.26	12	11
2:B:262:PHE:O	2:B:262:PHE:CG	0.51	2.64	5	4
1:A:224:SER:C	1:A:226:LEU:H	0.50	2.08	14	4
2:B:332:ARG:O	2:B:333:LEU:C	0.50	2.48	11	4
2:B:318:LEU:CD2	2:B:322:HIS:CD2	0.50	2.93	12	1
1:A:222:PRO:C	1:A:226:LEU:HD13	0.50	2.25	19	1
2:B:262:PHE:CG	2:B:333:LEU:HG	0.50	2.41	5	4
2:B:315:ILE:H	2:B:315:ILE:CD1	0.50	2.19	14	2
2:B:315:ILE:HD12	2:B:315:ILE:N	0.50	2.21	14	2
1:A:188:GLN:OE1	2:B:309:LYS:NZ	0.50	2.40	1	2
2:B:240:TYR:CZ	2:B:266:ASP:OD2	0.50	2.65	6	1
1:A:181:ASP:OD1	1:A:194:CYS:SG	0.50	2.68	7	2
1:A:191:ALA:O	1:A:192:LEU:HD23	0.50	2.05	9	1
2:B:232:ASN:O	2:B:234:LEU:N	0.50	2.44	4	1
2:B:233:ASN:C	2:B:235:GLU:N	0.50	2.64	5	1
2:B:319:ILE:O	2:B:323:GLN:HG2	0.50	2.07	18	2
2:B:307:ALA:C	2:B:309:LYS:H	0.50	2.10	13	14
1:A:213:ASP:O	1:A:216:GLY:N	0.50	2.41	10	9
1:A:205:GLU:O	1:A:209:TRP:NE1	0.50	2.44	12	4
1:A:193:ARG:O	1:A:196:GLU:N	0.50	2.44	2	2
1:A:193:ARG:O	1:A:194:CYS:O	0.50	2.30	3	5
2:B:297:THR:H	2:B:303:ARG:CB	0.50	2.20	3	1
2:B:309:LYS:NZ	2:B:327:GLY:O	0.50	2.45	7	1
1:A:206:ILE:HD12	1:A:206:ILE:H	0.50	1.66	8	1
2:B:296:GLU:OE1	2:B:303:ARG:NH1	0.50	2.45	10	1
1:A:182:TYR:OH	2:B:332:ARG:NH1	0.50	2.45	12	1
1:A:200:LEU:C	1:A:201:LEU:HD12	0.50	2.26	13	1
2:B:239:TRP:O	2:B:264:VAL:O	0.50	2.29	3	16

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:305:TYR:CD1	2:B:305:TYR:C	0.50	2.85	9	4
2:B:328:GLY:C	2:B:329:LEU:HD22	0.50	2.27	14	1
2:B:286:ASN:OD1	2:B:286:ASN:N	0.50	2.45	20	1
1:A:173:GLU:CD	1:A:173:GLU:N	0.50	2.65	3	8
2:B:260:GLY:O	2:B:261:ALA:C	0.50	2.49	5	7
2:B:262:PHE:CD1	2:B:262:PHE:C	0.50	2.85	5	9
2:B:324:TYR:C	2:B:325:ASN:ND2	0.50	2.66	1	2
1:A:198:TYR:O	1:A:199:TYR:O	0.50	2.29	14	2
1:A:193:ARG:O	1:A:196:GLU:CB	0.49	2.60	15	8
2:B:314:SER:O	2:B:317:LEU:N	0.49	2.44	20	6
2:B:233:ASN:O	2:B:235:GLU:N	0.49	2.45	5	1
1:A:182:TYR:CD1	1:A:182:TYR:C	0.49	2.86	10	5
2:B:234:LEU:C	2:B:236:THR:N	0.49	2.66	19	16
2:B:305:TYR:O	2:B:305:TYR:CG	0.49	2.64	19	3
2:B:291:HIS:O	2:B:292:TYR:CG	0.49	2.65	8	2
1:A:178:ALA:HB3	1:A:193:ARG:O	0.49	2.07	18	1
1:A:225:TYR:OH	2:B:331:THR:CG2	0.49	2.61	5	1
2:B:260:GLY:O	2:B:262:PHE:N	0.49	2.45	12	1
2:B:322:HIS:NE2	2:B:329:LEU:HD23	0.49	2.23	14	3
1:A:209:TRP:CD2	1:A:223:SER:OG	0.49	2.64	19	1
1:A:192:LEU:O	1:A:193:ARG:NE	0.49	2.45	1	1
2:B:305:TYR:C	2:B:305:TYR:CD1	0.49	2.86	3	2
1:A:179:LEU:HB3	1:A:180:TYR:CE1	0.49	2.42	10	1
1:A:213:ASP:N	1:A:213:ASP:OD1	0.49	2.43	20	1
2:B:325:ASN:N	2:B:325:ASN:ND2	0.49	2.60	1	1
2:B:234:LEU:O	2:B:236:THR:N	0.49	2.46	19	9
1:A:183:GLN:NE2	1:A:184:THR:O	0.49	2.45	5	1
2:B:321:TYR:CZ	2:B:322:HIS:CD2	0.49	3.01	15	1
2:B:279:THR:O	2:B:279:THR:CG2	0.49	2.61	8	1
2:B:315:ILE:HB	2:B:316:PRO:HD3	0.49	1.84	12	3
2:B:303:ARG:CZ	2:B:304:TYR:OH	0.49	2.60	2	1
2:B:303:ARG:NE	2:B:304:TYR:OH	0.49	2.46	2	1
1:A:209:TRP:O	1:A:210:ARG:C	0.49	2.51	12	10
1:A:210:ARG:NH2	1:A:220:TYR:OH	0.49	2.43	14	5
1:A:226:LEU:O	1:A:227:VAL:HG23	0.49	2.08	11	2
2:B:263:MET:HG2	2:B:264:VAL:N	0.49	2.23	12	8
2:B:286:ASN:O	2:B:286:ASN:ND2	0.49	2.45	5	1
2:B:292:TYR:CE2	2:B:329:LEU:HD22	0.49	2.42	6	3
1:A:209:TRP:CE2	1:A:223:SER:OG	0.49	2.56	19	1
1:A:184:THR:OG1	1:A:191:ALA:CA	0.48	2.61	16	5
1:A:180:TYR:CD1	1:A:180:TYR:N	0.48	2.81	20	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:210:ARG:NE	1:A:220:TYR:CE2	0.48	2.81	9	3
2:B:333:LEU:N	2:B:333:LEU:CD1	0.48	2.76	4	9
2:B:330:VAL:HG13	2:B:331:THR:HG22	0.48	1.83	7	1
2:B:323:GLN:C	2:B:324:TYR:CD1	0.48	2.87	15	1
1:A:192:LEU:C	1:A:193:ARG:HE	0.48	2.11	1	1
1:A:228:GLU:CD	1:A:228:GLU:H	0.48	2.09	9	5
1:A:209:TRP:N	1:A:221:ALA:O	0.48	2.44	5	3
2:B:234:LEU:C	2:B:236:THR:H	0.48	2.11	6	4
2:B:303:ARG:NH2	2:B:304:TYR:OH	0.48	2.46	17	1
1:A:213:ASP:OD1	1:A:214:LYS:N	0.48	2.46	3	1
2:B:322:HIS:CD2	2:B:329:LEU:HD12	0.48	2.44	8	2
1:A:224:SER:C	1:A:226:LEU:N	0.48	2.67	18	5
2:B:283:ILE:CG2	2:B:284:SER:N	0.48	2.76	10	7
1:A:181:ASP:OD2	1:A:194:CYS:SG	0.48	2.71	8	1
2:B:315:ILE:H	2:B:315:ILE:HD13	0.48	1.68	8	2
1:A:216:GLY:O	1:A:217:HIS:O	0.48	2.31	15	1
1:A:190:LEU:HD11	1:A:217:HIS:HB3	0.48	1.85	13	4
2:B:307:ALA:C	2:B:309:LYS:N	0.48	2.67	19	15
2:B:315:ILE:CB	2:B:316:PRO:CD	0.48	2.92	12	6
1:A:182:TYR:C	1:A:182:TYR:CD1	0.48	2.86	16	4
2:B:321:TYR:HH	2:B:327:GLY:HA3	0.48	1.68	13	2
2:B:283:ILE:HG23	2:B:284:SER:N	0.48	2.23	10	3
1:A:214:LYS:HZ3	1:A:214:LYS:N	0.48	2.05	10	1
1:A:209:TRP:CZ3	1:A:223:SER:OG	0.48	2.60	13	1
2:B:324:TYR:CD1	2:B:325:ASN:ND2	0.47	2.82	9	2
1:A:224:SER:OG	2:B:330:VAL:CG2	0.47	2.61	3	3
1:A:192:LEU:HD11	1:A:222:PRO:CD	0.47	2.38	7	3
1:A:193:ARG:C	1:A:196:GLU:OE2	0.47	2.52	3	3
2:B:281:ALA:O	2:B:282:ILE:O	0.47	2.32	18	8
1:A:184:THR:HG23	1:A:189:GLU:O	0.47	2.08	7	1
2:B:297:THR:OG1	2:B:303:ARG:CA	0.47	2.62	1	1
1:A:192:LEU:HD22	1:A:198:TYR:CZ	0.47	2.44	5	1
1:A:225:TYR:CD2	2:B:330:VAL:CG2	0.47	2.97	5	1
1:A:190:LEU:HD12	1:A:191:ALA:O	0.47	2.09	6	1
1:A:207:HIS:O	1:A:208:TRP:CD2	0.47	2.67	12	1
2:B:277:VAL:O	2:B:290:LYS:N	0.47	2.43	4	4
2:B:242:LYS:HD2	2:B:243:SER:H	0.47	1.69	14	1
2:B:297:THR:OG1	2:B:303:ARG:N	0.47	2.48	1	2
1:A:226:LEU:C	1:A:227:VAL:HG22	0.47	2.30	4	1
2:B:266:ASP:O	2:B:266:ASP:OD1	0.47	2.33	19	6
1:A:210:ARG:NE	1:A:220:TYR:CE1	0.47	2.83	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:296:GLU:N	2:B:296:GLU:OE2	0.47	2.47	20	1
2:B:315:ILE:N	2:B:315:ILE:CD1	0.47	2.72	10	2
2:B:238:GLU:O	2:B:241:ASN:ND2	0.47	2.48	5	1
2:B:322:HIS:CG	2:B:329:LEU:HD12	0.47	2.44	16	2
2:B:246:ARG:HH11	2:B:265:ARG:HH21	0.47	1.53	11	1
2:B:329:LEU:O	2:B:331:THR:N	0.47	2.47	11	1
2:B:296:GLU:N	2:B:296:GLU:CD	0.47	2.68	15	1
2:B:302:LYS:HA	2:B:311:VAL:HG11	0.47	1.86	1	1
2:B:250:GLU:O	2:B:252:LEU:N	0.47	2.47	16	1
2:B:305:TYR:OH	2:B:308:GLU:OE2	0.47	2.32	6	5
2:B:318:LEU:HD21	2:B:322:HIS:NE2	0.47	2.24	12	1
2:B:329:LEU:CD1	2:B:333:LEU:CD1	0.47	2.93	12	1
2:B:272:THR:HG23	2:B:296:GLU:CD	0.47	2.29	15	1
2:B:241:ASN:O	2:B:244:ILE:HG22	0.47	2.09	17	1
1:A:205:GLU:OE1	1:A:207:HIS:CE1	0.47	2.67	8	3
2:B:317:LEU:C	2:B:319:ILE:N	0.47	2.65	19	3
2:B:304:TYR:CG	2:B:315:ILE:CD1	0.47	2.97	5	1
1:A:202:ASP:OD2	1:A:210:ARG:CZ	0.47	2.63	6	1
2:B:329:LEU:C	2:B:331:THR:H	0.47	2.13	9	4
1:A:190:LEU:HD23	1:A:211:VAL:HG23	0.47	1.85	10	1
1:A:223:SER:OG	2:B:290:LYS:NZ	0.47	2.41	17	1
2:B:322:HIS:NE2	2:B:328:GLY:N	0.47	2.63	17	1
2:B:315:ILE:C	2:B:317:LEU:N	0.46	2.69	19	6
1:A:225:TYR:CD1	2:B:330:VAL:CG2	0.46	2.98	10	2
1:A:207:HIS:O	1:A:223:SER:OG	0.46	2.33	19	2
1:A:190:LEU:CD2	1:A:217:HIS:O	0.46	2.62	10	2
1:A:222:PRO:HB3	2:B:330:VAL:HG23	0.46	1.87	14	2
1:A:210:ARG:O	1:A:211:VAL:CG1	0.46	2.63	5	5
1:A:206:ILE:O	2:B:292:TYR:CE1	0.46	2.68	16	1
1:A:189:GLU:OE1	1:A:189:GLU:CA	0.46	2.64	17	1
2:B:303:ARG:N	2:B:303:ARG:HD2	0.46	2.25	3	1
1:A:208:TRP:CE3	1:A:220:TYR:O	0.46	2.68	7	2
1:A:182:TYR:O	1:A:192:LEU:O	0.46	2.34	5	4
1:A:182:TYR:OH	1:A:189:GLU:OE1	0.46	2.34	2	5
1:A:202:ASP:C	1:A:204:SER:N	0.46	2.68	3	1
1:A:175:LEU:N	1:A:175:LEU:CD1	0.46	2.79	17	2
1:A:225:TYR:O	1:A:226:LEU:HD12	0.46	2.11	14	1
2:B:302:LYS:N	2:B:302:LYS:CD	0.46	2.79	3	1
2:B:321:TYR:CE2	2:B:322:HIS:ND1	0.46	2.84	11	4
2:B:239:TRP:CD1	2:B:239:TRP:N	0.46	2.82	13	4
2:B:332:ARG:O	2:B:333:LEU:O	0.46	2.34	17	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:222:PRO:C	1:A:226:LEU:HD12	0.46	2.31	1	2
1:A:230:SER:O	1:A:230:SER:OG	0.46	2.33	8	2
2:B:303:ARG:HG3	2:B:304:TYR:CD1	0.46	2.45	13	1
1:A:200:LEU:CD2	1:A:202:ASP:H	0.46	2.24	14	1
2:B:285:GLU:O	2:B:288:CYS:SG	0.46	2.69	3	1
2:B:312:PHE:HD2	2:B:318:LEU:N	0.46	2.09	19	1
2:B:272:THR:CG2	2:B:293:HIS:CE1	0.46	2.99	19	2
2:B:318:LEU:HD21	2:B:322:HIS:CD2	0.46	2.45	12	1
2:B:269:THR:O	2:B:272:THR:O	0.46	2.33	19	1
2:B:246:ARG:CG	2:B:247:ASP:N	0.46	2.79	13	7
1:A:202:ASP:O	1:A:204:SER:N	0.46	2.49	3	1
1:A:197:GLU:O	1:A:198:TYR:CG	0.46	2.69	14	2
2:B:321:TYR:CG	2:B:322:HIS:N	0.46	2.84	19	1
2:B:331:THR:O	2:B:334:ARG:NE	0.45	2.48	5	1
1:A:190:LEU:HD23	1:A:211:VAL:CG2	0.45	2.41	10	1
2:B:310:TYR:CE1	2:B:321:TYR:CE1	0.45	3.04	11	1
2:B:318:LEU:O	2:B:322:HIS:HB2	0.45	2.11	19	1
1:A:182:TYR:HB3	1:A:192:LEU:HD12	0.45	1.87	1	2
1:A:226:LEU:O	1:A:227:VAL:CG1	0.45	2.62	9	7
2:B:241:ASN:ND2	2:B:263:MET:CE	0.45	2.79	20	2
1:A:196:GLU:OE1	1:A:197:GLU:O	0.45	2.34	17	2
1:A:206:ILE:N	1:A:206:ILE:CD1	0.45	2.78	8	1
2:B:239:TRP:O	2:B:264:VAL:N	0.45	2.47	13	2
1:A:193:ARG:N	1:A:196:GLU:OE2	0.45	2.50	1	1
1:A:207:HIS:ND1	1:A:207:HIS:N	0.45	2.63	15	2
1:A:193:ARG:N	1:A:196:GLU:CD	0.45	2.70	12	1
2:B:250:GLU:O	2:B:251:LYS:C	0.45	2.54	16	1
2:B:255:ASP:OD1	2:B:255:ASP:O	0.45	2.34	6	9
1:A:189:GLU:OE2	1:A:208:TRP:CH2	0.45	2.69	7	2
1:A:218:GLU:H	1:A:218:GLU:CD	0.45	2.13	7	2
1:A:180:TYR:C	1:A:194:CYS:SG	0.45	2.95	18	1
1:A:200:LEU:HD23	1:A:201:LEU:N	0.45	2.26	18	1
1:A:222:PRO:O	1:A:226:LEU:CG	0.45	2.64	12	3
1:A:174:THR:OG1	1:A:175:LEU:N	0.45	2.50	12	1
1:A:196:GLU:CD	1:A:198:TYR:OH	0.45	2.55	14	2
2:B:329:LEU:CD1	2:B:333:LEU:HD13	0.45	2.41	15	1
2:B:267:SER:OG	2:B:272:THR:O	0.45	2.35	17	1
1:A:183:GLN:CD	1:A:184:THR:N	0.45	2.70	5	1
2:B:335:TYR:CD1	2:B:335:TYR:N	0.45	2.85	5	1
2:B:264:VAL:CG1	2:B:265:ARG:N	0.45	2.79	9	7
2:B:273:TYR:O	2:B:293:HIS:CD2	0.45	2.70	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:329:LEU:CD2	2:B:329:LEU:N	0.45	2.80	9	1
1:A:219:GLY:O	1:A:221:ALA:N	0.45	2.50	4	1
2:B:310:TYR:CE2	2:B:321:TYR:OH	0.45	2.62	9	1
1:A:174:THR:O	1:A:174:THR:HG23	0.45	2.10	13	2
2:B:245:SER:OG	2:B:246:ARG:N	0.44	2.51	1	1
2:B:272:THR:O	2:B:273:TYR:O	0.44	2.35	11	5
1:A:190:LEU:HD21	1:A:217:HIS:C	0.44	2.33	8	1
1:A:216:GLY:O	1:A:218:GLU:OE2	0.44	2.34	11	1
1:A:200:LEU:HD22	1:A:203:SER:N	0.44	2.27	3	1
2:B:240:TYR:CZ	2:B:266:ASP:CG	0.44	2.91	6	1
1:A:207:HIS:O	1:A:208:TRP:CG	0.44	2.70	12	1
2:B:317:LEU:O	2:B:319:ILE:N	0.44	2.50	19	1
2:B:233:ASN:O	2:B:233:ASN:OD1	0.44	2.36	4	2
1:A:197:GLU:CG	1:A:214:LYS:HZ1	0.44	2.26	19	2
1:A:181:ASP:CG	1:A:194:CYS:SG	0.44	2.96	8	1
2:B:321:TYR:CD1	2:B:321:TYR:C	0.44	2.86	11	5
2:B:286:ASN:N	2:B:286:ASN:OD1	0.44	2.50	11	2
1:A:189:GLU:CD	1:A:208:TRP:CH2	0.44	2.91	19	1
1:A:184:THR:OG1	1:A:190:LEU:C	0.44	2.56	4	1
2:B:302:LYS:HB3	2:B:311:VAL:HG11	0.44	1.89	4	1
2:B:286:ASN:C	2:B:286:ASN:ND2	0.44	2.71	15	1
1:A:180:TYR:CD2	1:A:225:TYR:CD1	0.44	3.05	16	1
2:B:307:ALA:O	2:B:309:LYS:N	0.44	2.51	19	1
2:B:297:THR:OG1	2:B:302:LYS:C	0.44	2.56	1	2
1:A:202:ASP:O	1:A:202:ASP:CG	0.44	2.55	3	1
1:A:206:ILE:O	1:A:223:SER:CB	0.44	2.66	3	1
2:B:251:LYS:CG	2:B:252:LEU:N	0.44	2.81	7	5
1:A:194:CYS:C	1:A:196:GLU:N	0.44	2.70	18	4
1:A:197:GLU:HG3	1:A:214:LYS:HZ1	0.44	1.73	19	1
1:A:202:ASP:CG	1:A:210:ARG:CZ	0.44	2.86	6	1
1:A:207:HIS:C	1:A:208:TRP:CG	0.44	2.91	12	1
2:B:292:TYR:OH	2:B:330:VAL:CG1	0.44	2.66	15	1
1:A:173:GLU:CD	1:A:173:GLU:H	0.44	2.16	1	4
1:A:228:GLU:O	1:A:228:GLU:OE2	0.44	2.36	9	4
2:B:272:THR:OG1	2:B:296:GLU:OE2	0.44	2.35	12	1
2:B:327:GLY:C	2:B:329:LEU:H	0.44	2.17	14	1
2:B:242:LYS:C	2:B:244:ILE:H	0.44	2.15	17	1
1:A:208:TRP:HB3	1:A:220:TYR:HB3	0.44	1.90	3	1
1:A:190:LEU:HD13	1:A:191:ALA:N	0.44	2.28	8	1
2:B:333:LEU:CD1	2:B:333:LEU:N	0.44	2.81	12	1
1:A:176:VAL:O	1:A:197:GLU:CD	0.44	2.55	14	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:322:HIS:C	2:B:324:TYR:N	0.44	2.71	14	2
2:B:267:SER:OG	2:B:274:THR:OG1	0.43	2.36	3	1
2:B:303:ARG:NH1	2:B:304:TYR:OH	0.43	2.51	13	1
1:A:190:LEU:HD23	1:A:219:GLY:CA	0.43	2.44	6	2
2:B:331:THR:O	2:B:331:THR:HG23	0.43	2.13	7	1
2:B:266:ASP:OD1	2:B:273:TYR:CE1	0.43	2.72	10	1
1:A:224:SER:OG	1:A:225:TYR:N	0.43	2.51	14	1
2:B:315:ILE:CD1	2:B:315:ILE:N	0.43	2.80	14	1
2:B:319:ILE:O	2:B:319:ILE:CG2	0.43	2.66	18	1
1:A:205:GLU:OE2	1:A:207:HIS:NE2	0.43	2.52	9	1
2:B:318:LEU:CD2	2:B:322:HIS:HD1	0.43	2.26	13	1
1:A:208:TRP:CD1	2:B:328:GLY:C	0.43	2.91	14	1
1:A:196:GLU:OE1	1:A:196:GLU:C	0.43	2.57	17	2
2:B:281:ALA:O	2:B:286:ASN:OD1	0.43	2.36	2	2
2:B:333:LEU:N	2:B:333:LEU:HD12	0.43	2.28	12	1
2:B:319:ILE:O	2:B:323:GLN:CG	0.43	2.66	19	2
2:B:257:GLY:C	2:B:280:LYS:HZ3	0.43	2.16	14	1
1:A:194:CYS:O	1:A:194:CYS:SG	0.43	2.76	4	1
2:B:318:LEU:O	2:B:318:LEU:CD2	0.43	2.63	8	6
2:B:289:ILE:CG2	2:B:291:HIS:NE2	0.43	2.81	10	2
2:B:303:ARG:H	2:B:311:VAL:HG12	0.43	1.72	10	1
1:A:215:ASN:CG	1:A:217:HIS:NE2	0.43	2.71	11	1
2:B:267:SER:OG	2:B:293:HIS:NE2	0.43	2.46	14	1
2:B:257:GLY:O	2:B:280:LYS:NZ	0.43	2.44	18	1
2:B:271:GLY:O	2:B:296:GLU:OE2	0.43	2.37	11	3
1:A:221:ALA:HB1	1:A:226:LEU:HD11	0.43	1.91	18	2
2:B:306:VAL:HG12	2:B:318:LEU:CD1	0.43	2.43	12	1
2:B:297:THR:OG1	2:B:302:LYS:O	0.43	2.28	15	1
1:A:223:SER:OG	1:A:224:SER:N	0.43	2.51	16	1
2:B:281:ALA:C	2:B:288:CYS:HG	0.43	2.17	17	1
1:A:205:GLU:OE1	1:A:208:TRP:O	0.43	2.36	20	1
1:A:198:TYR:CE1	1:A:213:ASP:CG	0.43	2.92	9	1
1:A:196:GLU:OE1	1:A:198:TYR:CE2	0.43	2.72	16	1
1:A:227:VAL:CG1	2:B:282:ILE:HG23	0.43	2.44	16	1
1:A:195:ASP:O	1:A:195:ASP:CG	0.43	2.56	4	1
1:A:184:THR:OG1	1:A:191:ALA:CB	0.43	2.67	13	1
1:A:181:ASP:O	1:A:181:ASP:OD1	0.42	2.36	18	4
2:B:318:LEU:HD23	2:B:318:LEU:C	0.42	2.34	9	1
1:A:180:TYR:CE1	1:A:225:TYR:HB3	0.42	2.49	16	1
2:B:312:PHE:CD2	2:B:318:LEU:N	0.42	2.87	19	1
2:B:294:ILE:O	2:B:296:GLU:OE2	0.42	2.36	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:218:GLU:OE1	1:A:218:GLU:O	0.42	2.37	2	1
1:A:189:GLU:OE1	1:A:208:TRP:CE3	0.42	2.72	11	2
2:B:320:GLN:OE1	2:B:320:GLN:CA	0.42	2.67	12	1
1:A:193:ARG:O	1:A:196:GLU:CG	0.42	2.66	12	1
1:A:196:GLU:OE1	1:A:198:TYR:OH	0.42	2.36	20	1
1:A:181:ASP:OD1	1:A:194:CYS:N	0.42	2.52	8	1
1:A:225:TYR:CD1	2:B:330:VAL:HG21	0.42	2.49	10	1
1:A:223:SER:O	1:A:226:LEU:O	0.42	2.37	18	1
1:A:190:LEU:CD2	1:A:219:GLY:N	0.42	2.83	6	1
1:A:221:ALA:CB	1:A:226:LEU:HD11	0.42	2.45	8	1
1:A:196:GLU:OE1	1:A:196:GLU:CA	0.42	2.67	11	1
2:B:273:TYR:H	2:B:294:ILE:CD1	0.42	2.23	13	1
2:B:319:ILE:O	2:B:323:GLN:CD	0.42	2.58	19	1
2:B:323:GLN:O	2:B:324:TYR:CD1	0.42	2.72	3	1
1:A:217:HIS:CD2	1:A:217:HIS:N	0.42	2.87	11	2
2:B:267:SER:OG	2:B:269:THR:OG1	0.42	2.34	12	1
2:B:321:TYR:CE1	2:B:325:ASN:OD1	0.42	2.73	1	1
2:B:297:THR:H	2:B:303:ARG:HB3	0.42	1.75	3	1
2:B:333:LEU:HD12	2:B:333:LEU:H	0.42	1.70	9	1
2:B:285:GLU:O	2:B:287:PRO:O	0.42	2.38	10	1
1:A:196:GLU:CD	1:A:196:GLU:H	0.42	2.18	1	1
1:A:220:TYR:CD1	1:A:220:TYR:N	0.42	2.88	3	1
1:A:226:LEU:O	1:A:227:VAL:CG2	0.42	2.68	11	2
2:B:272:THR:OG1	2:B:296:GLU:CD	0.42	2.58	13	2
2:B:332:ARG:HH21	2:B:334:ARG:HH22	0.42	1.57	5	1
1:A:208:TRP:NE1	2:B:328:GLY:CA	0.42	2.82	17	1
2:B:265:ARG:N	2:B:274:THR:O	0.42	2.44	17	2
2:B:311:VAL:HG12	2:B:312:PHE:N	0.42	2.30	9	1
1:A:222:PRO:HD2	1:A:226:LEU:HD11	0.42	1.92	19	1
2:B:318:LEU:CD2	2:B:322:HIS:ND1	0.42	2.83	3	1
1:A:211:VAL:CG2	1:A:219:GLY:H	0.42	2.27	4	1
1:A:182:TYR:HH	1:A:189:GLU:CD	0.42	2.18	6	1
2:B:258:LYS:NZ	2:B:259:GLU:O	0.42	2.53	12	1
1:A:171:PRO:O	1:A:172:GLU:C	0.42	2.58	18	1
1:A:182:TYR:CZ	1:A:184:THR:OG1	0.41	2.73	9	2
2:B:322:HIS:NE2	2:B:327:GLY:CA	0.41	2.83	15	1
1:A:207:HIS:O	2:B:329:LEU:O	0.41	2.38	12	1
2:B:322:HIS:NE2	2:B:327:GLY:HA2	0.41	2.30	15	1
2:B:303:ARG:CD	2:B:304:TYR:CZ	0.41	3.03	9	1
1:A:198:TYR:CD1	1:A:213:ASP:OD1	0.41	2.73	11	1
2:B:321:TYR:OH	2:B:322:HIS:NE2	0.41	2.49	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:318:LEU:HD23	2:B:322:HIS:ND1	0.41	2.31	20	1
1:A:223:SER:O	1:A:226:LEU:N	0.41	2.46	8	1
1:A:180:TYR:CE1	1:A:225:TYR:CD1	0.41	3.09	16	1
2:B:267:SER:C	2:B:269:THR:N	0.41	2.74	16	1
2:B:263:MET:CE	2:B:337:VAL:O	0.41	2.69	18	1
1:A:202:ASP:CG	1:A:210:ARG:NE	0.41	2.74	6	1
1:A:176:VAL:HG22	1:A:198:TYR:O	0.41	2.16	13	1
1:A:176:VAL:HG12	1:A:228:GLU:HA	0.41	1.93	14	1
1:A:202:ASP:O	1:A:202:ASP:OD1	0.41	2.39	3	1
2:B:272:THR:OG1	2:B:296:GLU:OE1	0.41	2.39	3	1
2:B:251:LYS:O	2:B:254:LEU:N	0.41	2.53	15	2
2:B:315:ILE:O	2:B:316:PRO:C	0.41	2.58	5	1
2:B:304:TYR:CD2	2:B:315:ILE:CD1	0.41	3.04	19	2
2:B:303:ARG:CG	2:B:304:TYR:CE1	0.41	3.03	13	1
2:B:281:ALA:N	2:B:286:ASN:OD1	0.41	2.54	14	1
2:B:294:ILE:O	2:B:296:GLU:OE1	0.41	2.38	15	1
2:B:267:SER:C	2:B:269:THR:H	0.41	2.19	16	1
2:B:271:GLY:O	2:B:272:THR:OG1	0.41	2.39	5	2
2:B:288:CYS:SG	2:B:289:ILE:N	0.41	2.94	2	2
2:B:240:TYR:OH	2:B:266:ASP:OD2	0.41	2.35	6	1
1:A:218:GLU:CD	1:A:218:GLU:N	0.41	2.73	7	1
2:B:248:LYS:O	2:B:252:LEU:CB	0.41	2.69	7	1
2:B:333:LEU:CD1	2:B:333:LEU:H	0.41	2.28	14	1
2:B:257:GLY:C	2:B:280:LYS:NZ	0.41	2.74	4	1
1:A:190:LEU:HD13	1:A:217:HIS:CB	0.41	2.46	6	1
1:A:182:TYR:O	1:A:192:LEU:C	0.41	2.58	9	1
1:A:209:TRP:C	1:A:210:ARG:O	0.41	2.59	12	1
1:A:222:PRO:O	1:A:226:LEU:HG	0.41	2.16	12	1
1:A:229:LYS:O	1:A:230:SER:OG	0.41	2.37	12	1
2:B:322:HIS:CE1	2:B:327:GLY:CA	0.41	3.04	12	1
1:A:217:HIS:O	1:A:218:GLU:CB	0.41	2.69	18	2
2:B:273:TYR:O	2:B:294:ILE:CG1	0.41	2.69	17	1
2:B:325:ASN:CG	2:B:326:GLY:H	0.41	2.18	20	1
2:B:303:ARG:CD	2:B:304:TYR:CE1	0.41	3.04	7	1
1:A:202:ASP:OD1	1:A:204:SER:OG	0.41	2.37	13	1
2:B:269:THR:O	2:B:271:GLY:N	0.41	2.54	16	1
2:B:305:TYR:O	2:B:305:TYR:CD1	0.41	2.74	19	1
2:B:237:TYR:CD2	2:B:239:TRP:CH2	0.40	3.09	1	1
2:B:262:PHE:CD1	2:B:262:PHE:O	0.40	2.74	6	1
2:B:271:GLY:O	2:B:296:GLU:OE1	0.40	2.38	10	1
2:B:268:ARG:O	2:B:269:THR:C	0.40	2.59	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:262:PHE:CE1	2:B:319:ILE:HG23	0.40	2.50	13	1
2:B:242:LYS:HD2	2:B:242:LYS:H	0.40	1.75	14	1
2:B:317:LEU:C	2:B:319:ILE:H	0.40	2.19	19	1
2:B:262:PHE:CG	2:B:262:PHE:O	0.40	2.74	3	1
1:A:189:GLU:CD	1:A:220:TYR:O	0.40	2.60	4	1
1:A:215:ASN:CB	1:A:217:HIS:NE2	0.40	2.83	9	1
2:B:331:THR:O	2:B:331:THR:OG1	0.40	2.32	1	1
2:B:276:SER:OG	2:B:291:HIS:CE1	0.40	2.75	2	1
1:A:225:TYR:CE2	2:B:330:VAL:HG22	0.40	2.51	5	1
1:A:214:LYS:N	1:A:214:LYS:HD3	0.40	2.32	2	1
2:B:237:TYR:HB3	2:B:239:TRP:CE2	0.40	2.52	11	1
2:B:321:TYR:CZ	2:B:322:HIS:NE2	0.40	2.89	15	1
1:A:218:GLU:CD	1:A:218:GLU:H	0.40	2.18	2	1
2:B:310:TYR:CZ	2:B:321:TYR:OH	0.40	2.71	3	1
1:A:180:TYR:CD1	1:A:225:TYR:CD1	0.40	3.10	5	1
2:B:323:GLN:C	2:B:333:LEU:O	0.40	2.60	14	1
1:A:179:LEU:CD1	1:A:225:TYR:O	0.40	2.69	16	1
2:B:303:ARG:NE	2:B:313:ASP:OD1	0.40	2.55	19	1

6.3 Torsion angles [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	57/63 (90%)	44±3 (77±5%)	9±2 (15±4%)	4±1 (8±2%)	2	15
2	B	102/110 (93%)	76±3 (75±3%)	16±3 (16±3%)	10±2 (9±2%)	1	11
All	All	3180/3460 (92%)	2408 (76%)	493 (16%)	279 (9%)	1	12

All 45 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	282	ILE	20
2	B	325	ASN	20
2	B	302	LYS	18

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Mol	Chain	Res	Type	Models (Total)
2	B	307	ALA	17
1	A	171	PRO	16
2	B	332	ARG	16
1	A	210	ARG	15
2	B	280	LYS	15
2	B	306	VAL	13
1	A	194	CYS	11
2	B	315	ILE	11
2	B	316	PRO	11
2	B	273	TYR	10
2	B	261	ALA	8
1	A	222	PRO	8
1	A	207	HIS	7
2	B	235	GLU	7
1	A	195	ASP	6
2	B	331	THR	5
1	A	196	GLU	4
2	B	330	VAL	4
2	B	334	ARG	4
1	A	230	SER	3
2	B	333	LEU	3
2	B	233	ASN	2
1	A	209	TRP	2
1	A	176	VAL	2
1	A	193	ARG	2
1	A	199	TYR	2
1	A	218	GLU	2
2	B	271	GLY	1
1	A	203	SER	1
1	A	220	TYR	1
1	A	189	GLU	1
2	B	234	LEU	1
1	A	225	TYR	1
1	A	217	HIS	1
1	A	180	TYR	1
2	B	250	GLU	1
2	B	251	LYS	1
2	B	314	SER	1
2	B	243	SER	1
1	A	224	SER	1
2	B	303	ARG	1
1	A	227	VAL	1

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	53/57 (93%)	46±1 (87±3%)	7±1 (13±3%)	7 48
2	B	93/98 (95%)	81±3 (87±3%)	12±3 (13±3%)	7 48
All	All	2920/3100 (94%)	2540 (87%)	380 (13%)	7 48

All 69 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	200	LEU	19
2	B	239	TRP	17
2	B	278	PHE	15
2	B	321	TYR	15
1	A	173	GLU	14
1	A	224	SER	14
2	B	322	HIS	13
1	A	207	HIS	12
2	B	310	TYR	12
2	B	234	LEU	11
2	B	273	TYR	11
2	B	279	THR	11
2	B	269	THR	10
2	B	315	ILE	10
1	A	214	LYS	10
2	B	238	GLU	10
2	B	329	LEU	9
1	A	196	GLU	8
1	A	227	VAL	8
2	B	325	ASN	7
1	A	198	TYR	6
2	B	294	ILE	6
2	B	286	ASN	6
2	B	331	THR	6
1	A	190	LEU	6
2	B	303	ARG	5
2	B	318	LEU	5
1	A	180	TYR	5

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Mol	Chain	Res	Type	Models (Total)
1	A	223	SER	5
2	B	251	LYS	5
1	A	228	GLU	5
1	A	230	SER	4
1	A	218	GLU	4
2	B	297	THR	4
2	B	293	HIS	4
2	B	335	TYR	4
2	B	266	ASP	4
2	B	290	LYS	4
1	A	211	VAL	4
2	B	338	CYS	4
1	A	193	ARG	3
2	B	272	THR	3
2	B	314	SER	3
2	B	262	PHE	3
2	B	320	GLN	3
2	B	305	TYR	3
2	B	296	GLU	3
2	B	304	TYR	2
2	B	267	SER	2
1	A	189	GLU	2
1	A	176	VAL	2
2	B	242	LYS	2
1	A	203	SER	1
2	B	288	CYS	1
2	B	337	VAL	1
2	B	236	THR	1
1	A	215	ASN	1
1	A	226	LEU	1
2	B	246	ARG	1
1	A	179	LEU	1
1	A	182	TYR	1
2	B	330	VAL	1
2	B	244	ILE	1
2	B	265	ARG	1
1	A	204	SER	1
2	B	324	TYR	1
2	B	268	ARG	1
1	A	188	GLN	1
2	B	245	SER	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided