



Full wwPDB NMR Structure Validation Report ⓘ

Apr 20, 2024 – 11:20 AM EDT

PDB ID : 1SAF
Title : HIGH RESOLUTION SOLUTION NMR STRUCTURE OF THE OLIGOMERIZATION DOMAIN OF P53 BY MULTI-DIMENSIONAL NMR (SAD STRUCTURES)
Authors : Clore, G.M.; Omichinski, J.G.; Gronenborn, A.M.
Deposited on : 1995-03-12

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

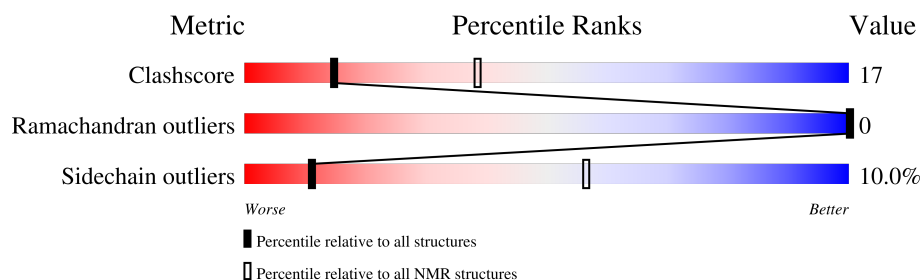
1 Overall quality at a glance

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	42	45% 24% 31%
1	B	42	45% 24% 31%
1	C	42	45% 24% 31%
1	D	42	43% 26% 31%

2 Ensemble composition and analysis

This entry contains 76 models. Model 69 is the overall representative, medoid model (most similar to other models).

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:326-A:354, B:326-B:354, C:326-C:354, D:326-D:354 (116)	0.37	69

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 13 clusters and 2 single-model clusters were found.

Cluster number	Models
1	4, 7, 10, 11, 31, 33, 45, 47, 49, 53, 54, 59, 66, 67, 68, 72
2	2, 6, 21, 36, 37, 42, 46, 60, 62, 70, 75
3	9, 14, 28, 34, 39, 40, 50, 51, 56, 69
4	8, 25, 29, 38, 48, 55, 73
5	3, 22, 41, 44, 65, 71, 74
6	13, 26, 27, 57, 76
7	16, 23, 35, 58
8	1, 18, 64
9	5, 19, 30
10	15, 20
11	12, 32
12	17, 61
13	24, 52
Single-model clusters	43; 63

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2804 atoms, of which 1408 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called TUMOR SUPPRESSOR P53.

Mol	Chain	Residues	Atoms						Trace
1	A	42	Total	C	H	N	O	S	0
			698	219	350	62	66	1	
1	B	42	Total	C	H	N	O	S	0
			698	219	350	62	66	1	
1	C	42	Total	C	H	N	O	S	0
			698	219	350	62	66	1	
1	D	42	Total	C	H	N	O	S	0
			698	219	350	62	66	1	

- Molecule 2 is water.

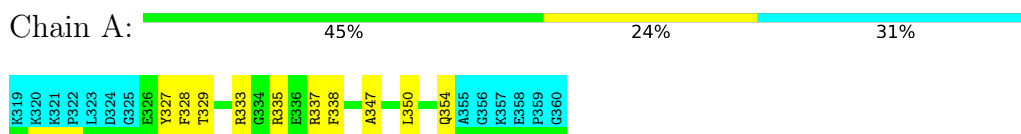
Mol	Chain	Residues	Atoms		
2	A	1	Total	H	O
			3	2	1
2	B	1	Total	H	O
			3	2	1
2	D	1	Total	H	O
			3	2	1
2	D	1	Total	H	O
			3	2	1

4 Residue-property plots

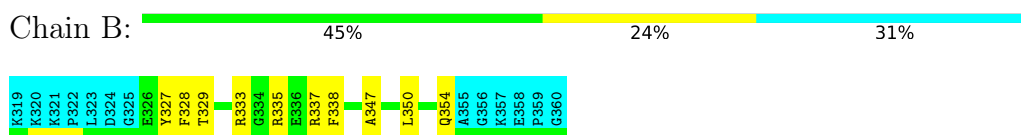
4.1 Average score per residue in the NMR ensemble

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.

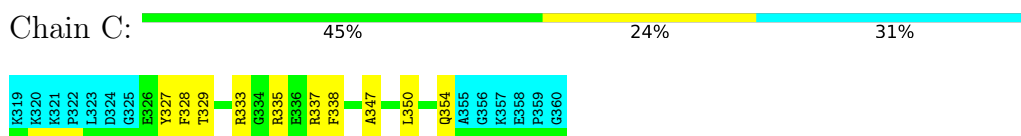
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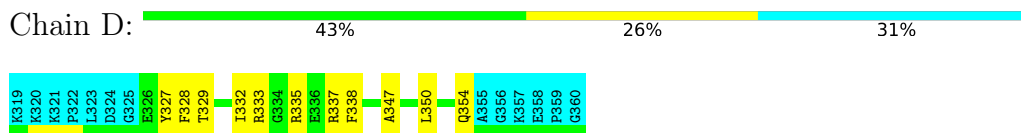
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

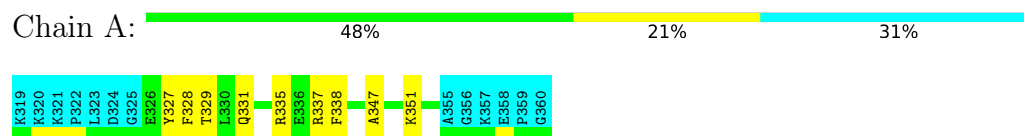


4.2 Scores per residue for each member of the ensemble

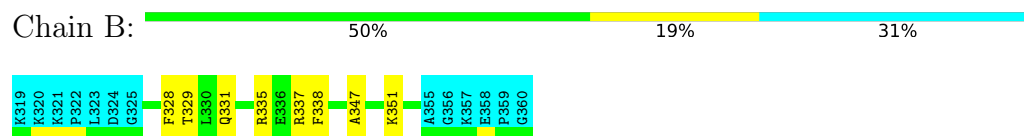
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

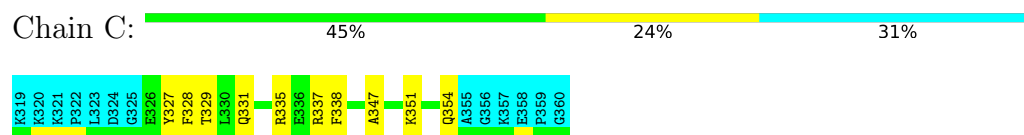
- Molecule 1: TUMOR SUPPRESSOR P53



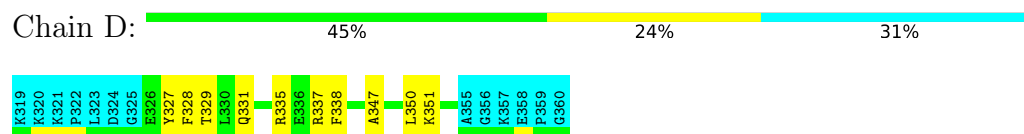
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



4.2.2 Score per residue for model 2

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

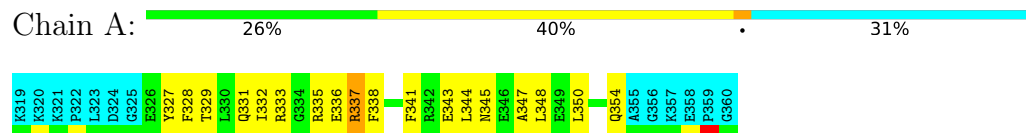


- Molecule 1: TUMOR SUPPRESSOR P53

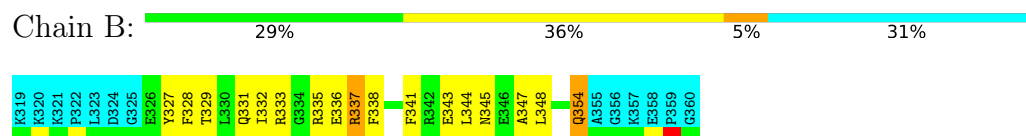


4.2.3 Score per residue for model 3

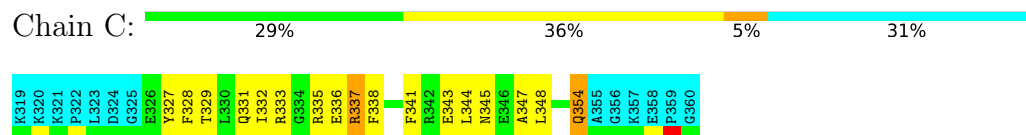
- Molecule 1: TUMOR SUPPRESSOR P53



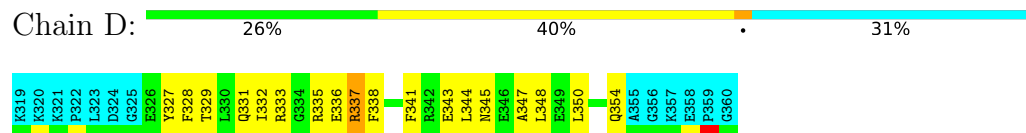
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

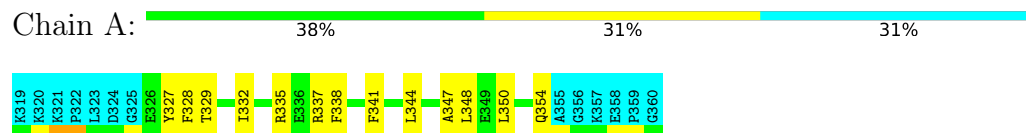


- Molecule 1: TUMOR SUPPRESSOR P53

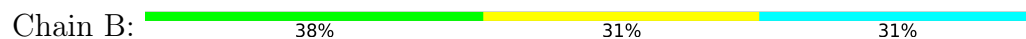


4.2.4 Score per residue for model 4

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

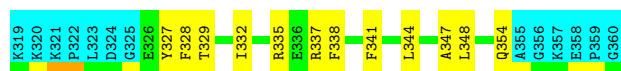




- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



4.2.5 Score per residue for model 5

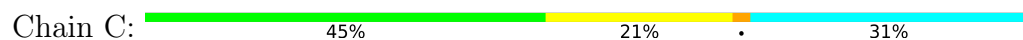
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

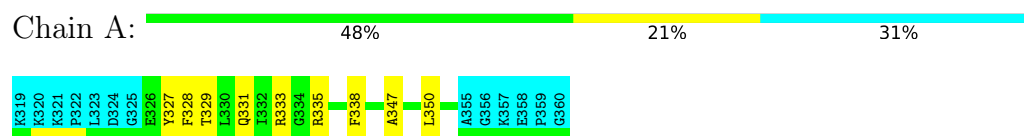


- Molecule 1: TUMOR SUPPRESSOR P53

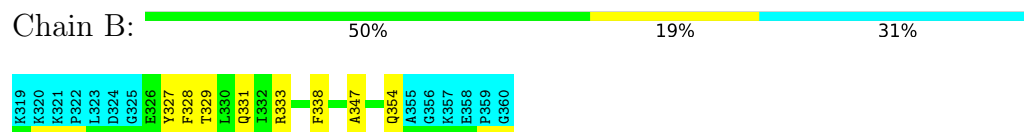


4.2.6 Score per residue for model 6

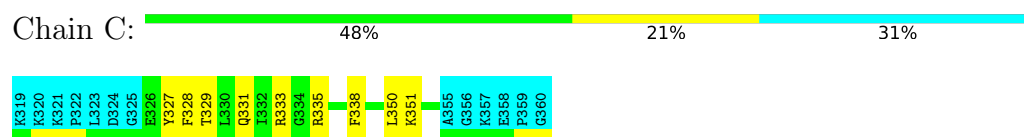
• Molecule 1: TUMOR SUPPRESSOR P53



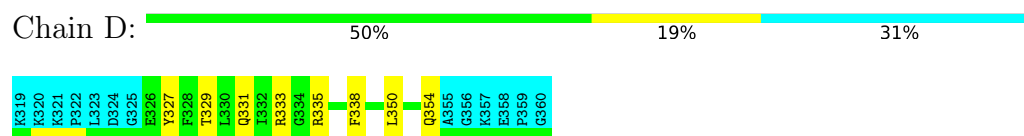
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

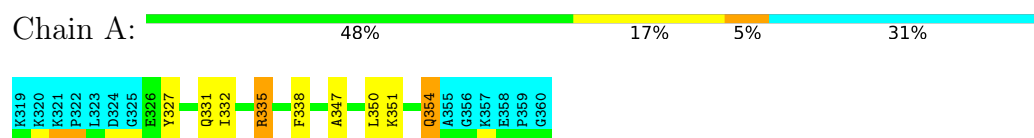


• Molecule 1: TUMOR SUPPRESSOR P53

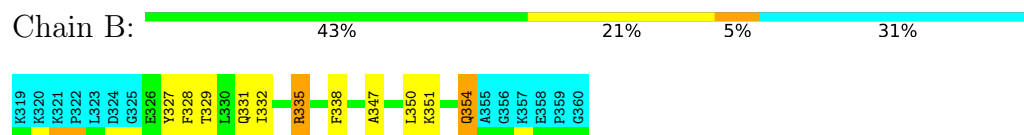


4.2.7 Score per residue for model 7

• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



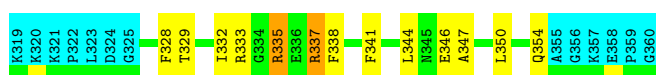
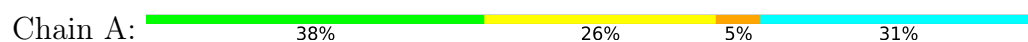


• Molecule 1: TUMOR SUPPRESSOR P53



4.2.8 Score per residue for model 8

• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



4.2.9 Score per residue for model 9

• Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  43% 26% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  40% 29% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

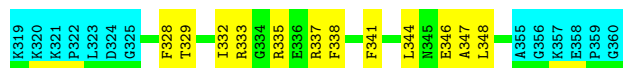
Chain D:  40% 29% 31%



4.2.10 Score per residue for model 10

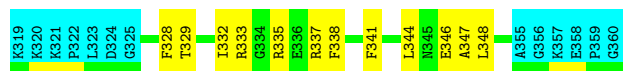
- Molecule 1: TUMOR SUPPRESSOR P53

Chain A:  40% 29% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  40% 29% 31%



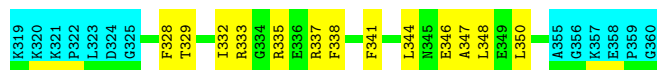
- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  38% 31% 31%



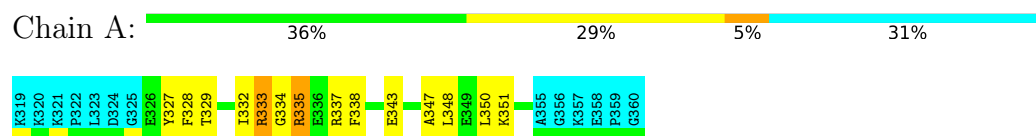
- Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  38% 31% 31%

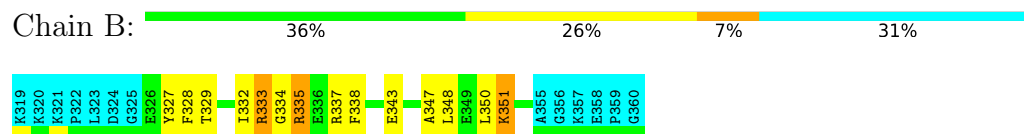


4.2.11 Score per residue for model 11

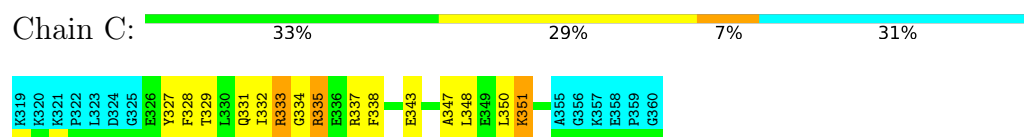
- Molecule 1: TUMOR SUPPRESSOR P53



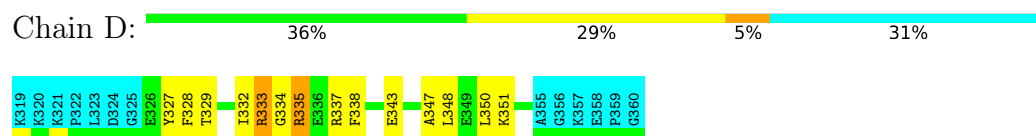
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

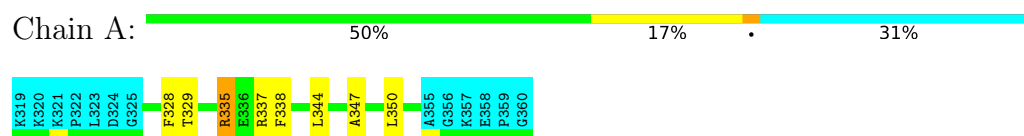


- Molecule 1: TUMOR SUPPRESSOR P53

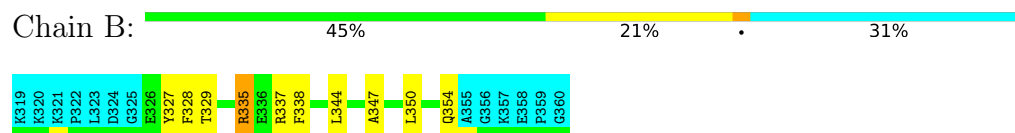


4.2.12 Score per residue for model 12

- Molecule 1: TUMOR SUPPRESSOR P53

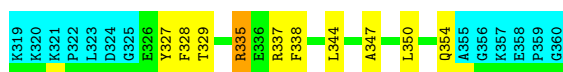


- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



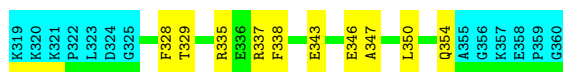


- Molecule 1: TUMOR SUPPRESSOR P53



4.2.13 Score per residue for model 13

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



4.2.14 Score per residue for model 14

- Molecule 1: TUMOR SUPPRESSOR P53



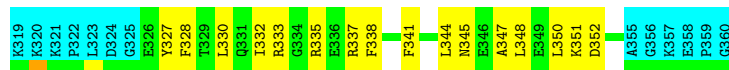
- Molecule 1: TUMOR SUPPRESSOR P53

Chain B: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain D: 



4.2.15 Score per residue for model 15

- Molecule 1: TUMOR SUPPRESSOR P53

Chain A: 



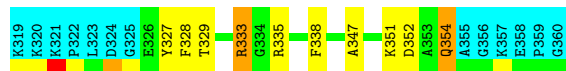
- Molecule 1: TUMOR SUPPRESSOR P53

Chain B: 



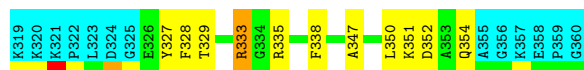
- Molecule 1: TUMOR SUPPRESSOR P53

Chain C: 



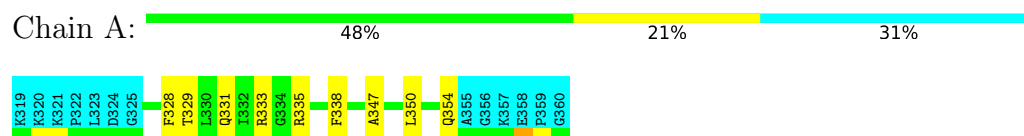
- Molecule 1: TUMOR SUPPRESSOR P53

Chain D: 

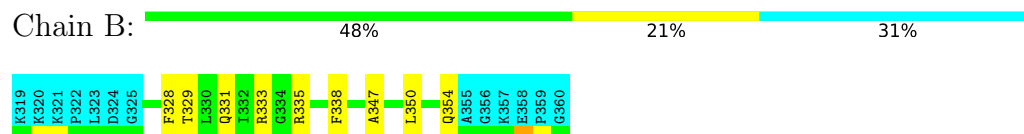


4.2.16 Score per residue for model 16

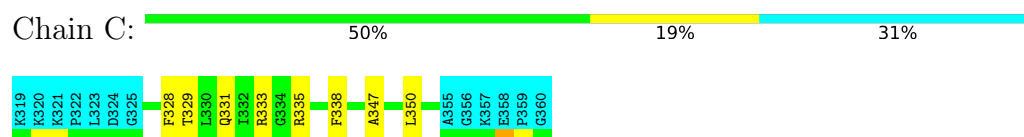
• Molecule 1: TUMOR SUPPRESSOR P53



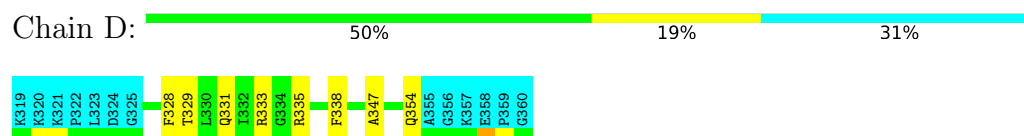
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

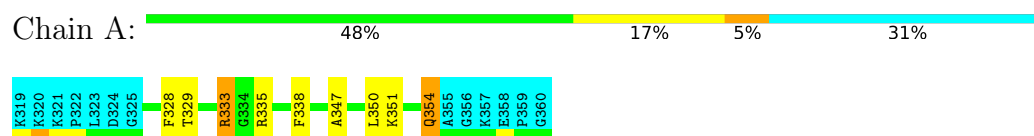


• Molecule 1: TUMOR SUPPRESSOR P53

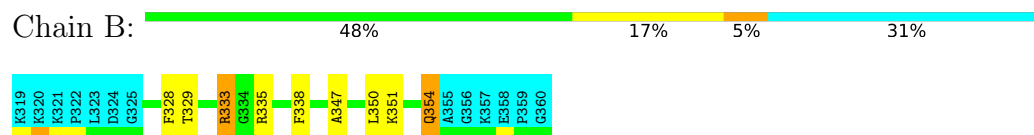


4.2.17 Score per residue for model 17

• Molecule 1: TUMOR SUPPRESSOR P53

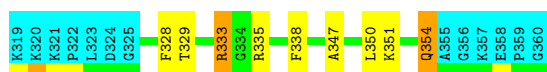


• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53





- Molecule 1: TUMOR SUPPRESSOR P53



4.2.18 Score per residue for model 18

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



4.2.19 Score per residue for model 19

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  43% 26% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  43% 26% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  40% 29% 31%



4.2.20 Score per residue for model 20

- Molecule 1: TUMOR SUPPRESSOR P53

Chain A:  40% 24% 5% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  36% 31% 0% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  40% 24% 5% 31%



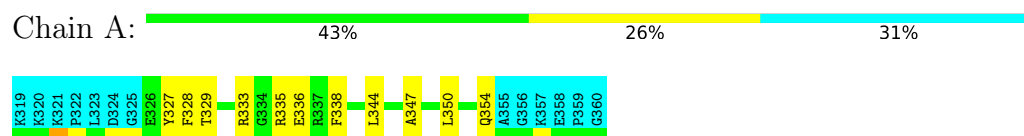
- Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  36% 31% 0% 31%

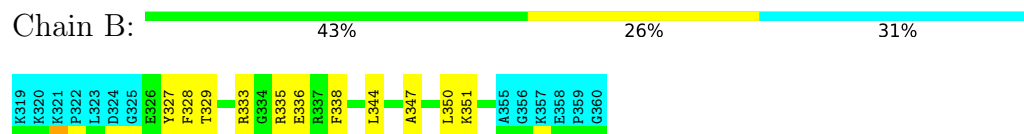


4.2.21 Score per residue for model 21

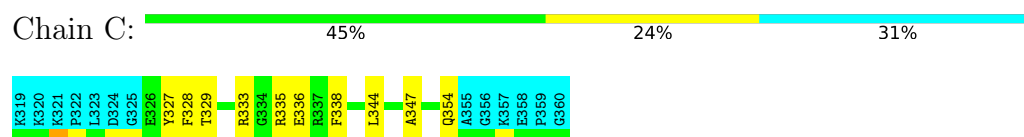
• Molecule 1: TUMOR SUPPRESSOR P53



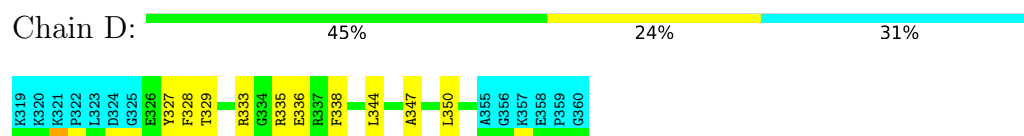
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

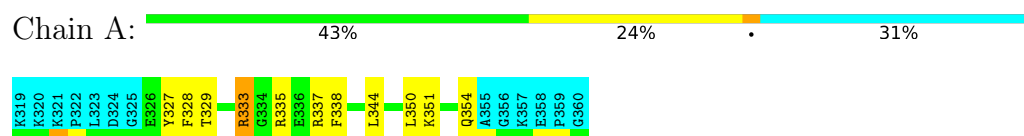


• Molecule 1: TUMOR SUPPRESSOR P53

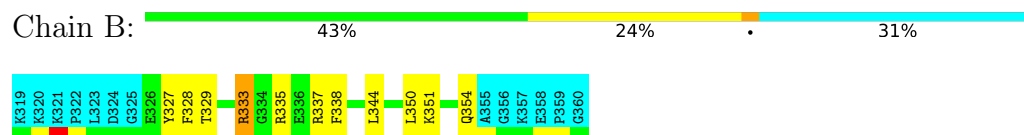


4.2.22 Score per residue for model 22

• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53





- Molecule 1: TUMOR SUPPRESSOR P53



4.2.23 Score per residue for model 23

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



4.2.24 Score per residue for model 24

- Molecule 1: TUMOR SUPPRESSOR P53



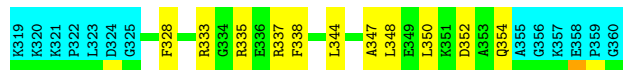
- Molecule 1: TUMOR SUPPRESSOR P53

Chain B: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain D: 



4.2.25 Score per residue for model 25

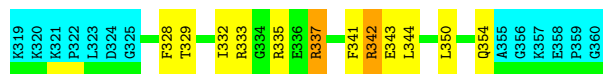
- Molecule 1: TUMOR SUPPRESSOR P53

Chain A: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain B: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C: 



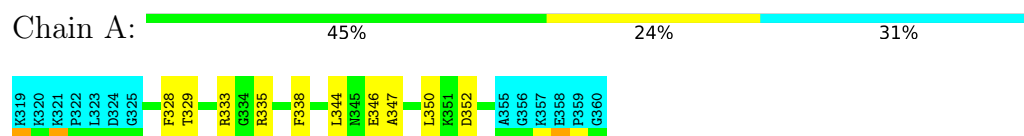
- Molecule 1: TUMOR SUPPRESSOR P53

Chain D: 

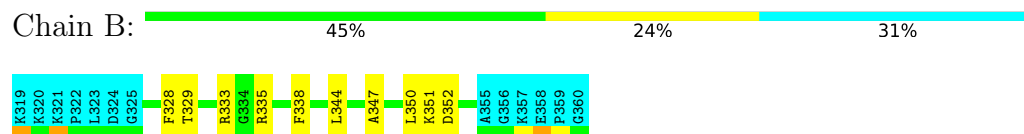


4.2.26 Score per residue for model 26

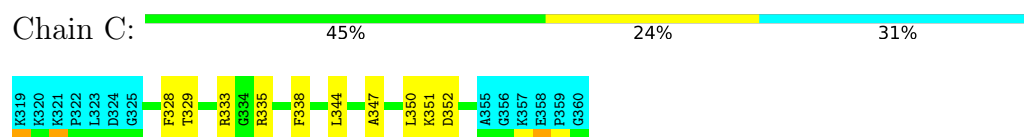
• Molecule 1: TUMOR SUPPRESSOR P53



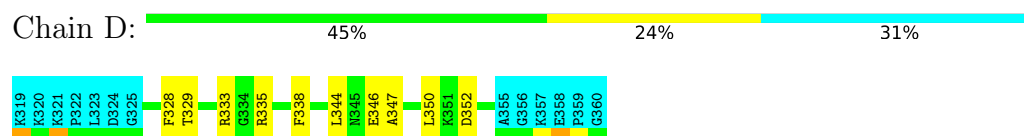
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

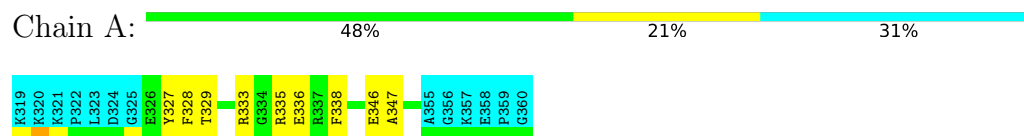


• Molecule 1: TUMOR SUPPRESSOR P53

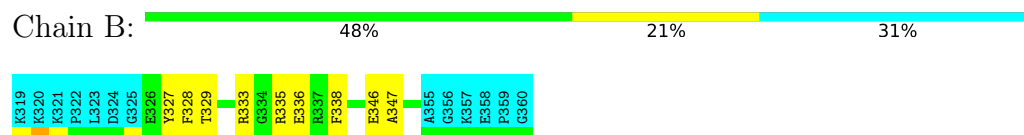


4.2.27 Score per residue for model 27

• Molecule 1: TUMOR SUPPRESSOR P53

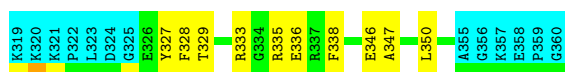


• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



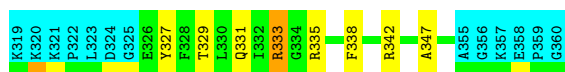


- Molecule 1: TUMOR SUPPRESSOR P53



4.2.28 Score per residue for model 28

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

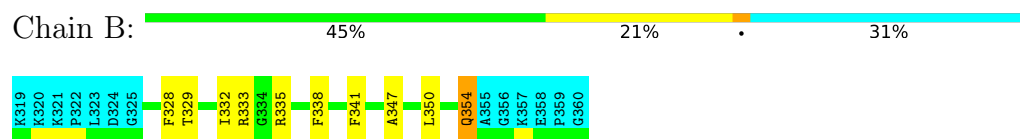


4.2.29 Score per residue for model 29

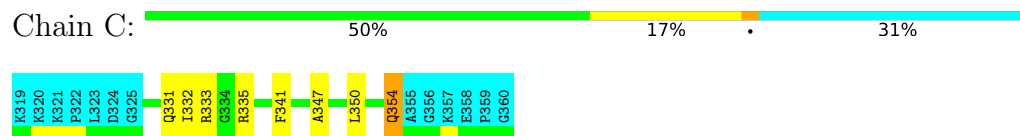
- Molecule 1: TUMOR SUPPRESSOR P53



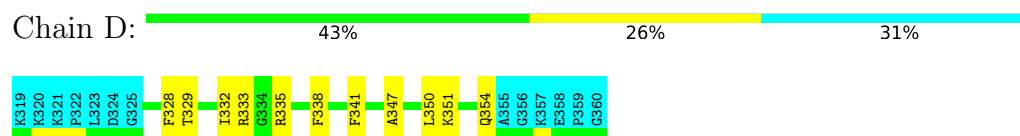
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

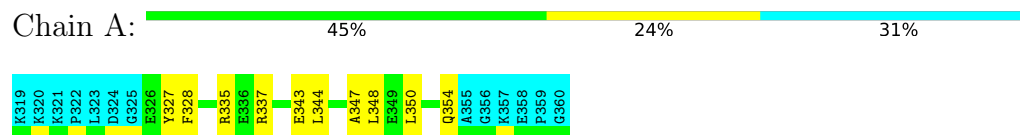


- Molecule 1: TUMOR SUPPRESSOR P53

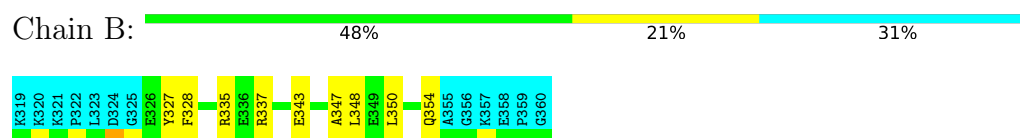


4.2.30 Score per residue for model 30

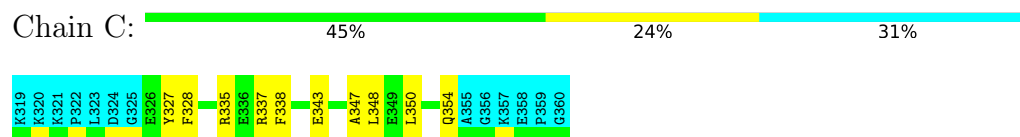
- Molecule 1: TUMOR SUPPRESSOR P53



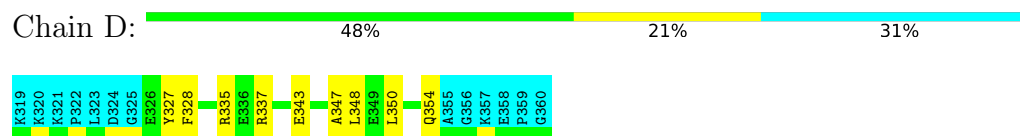
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

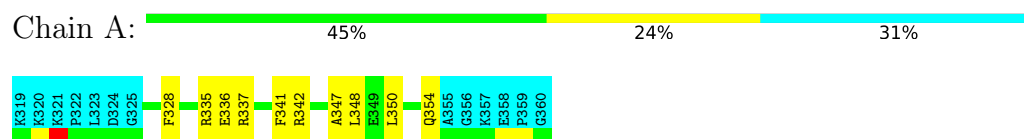


- Molecule 1: TUMOR SUPPRESSOR P53

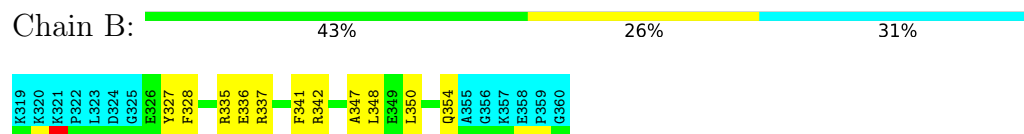


4.2.31 Score per residue for model 31

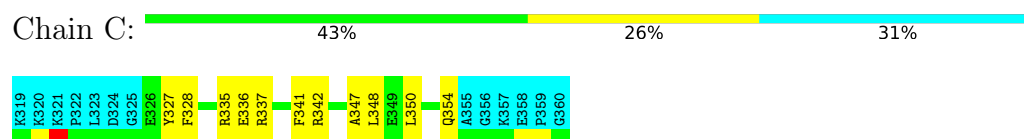
- Molecule 1: TUMOR SUPPRESSOR P53



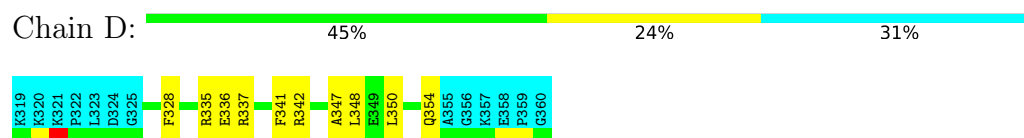
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

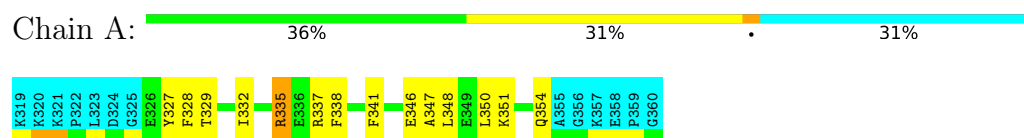


- Molecule 1: TUMOR SUPPRESSOR P53

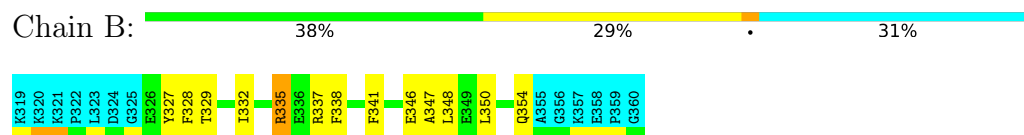


4.2.32 Score per residue for model 32

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



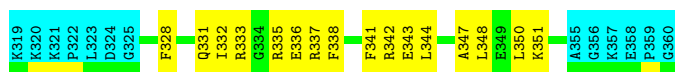
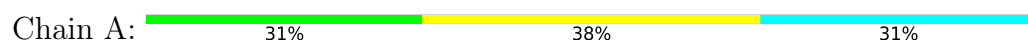


• Molecule 1: TUMOR SUPPRESSOR P53

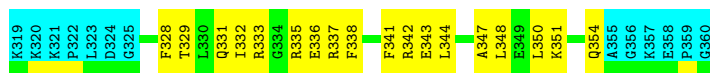


4.2.33 Score per residue for model 33

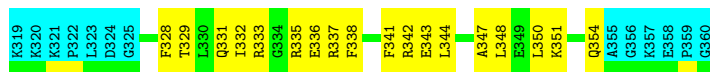
• Molecule 1: TUMOR SUPPRESSOR P53



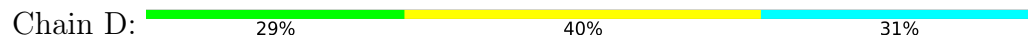
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

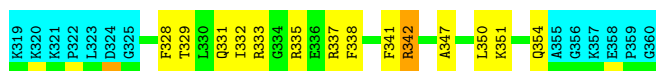


• Molecule 1: TUMOR SUPPRESSOR P53

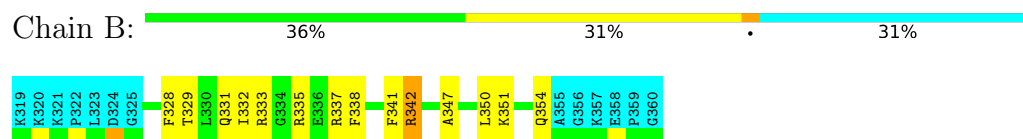


4.2.34 Score per residue for model 34

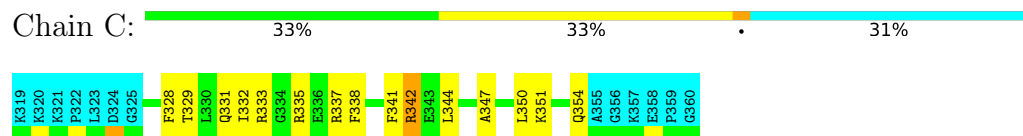
• Molecule 1: TUMOR SUPPRESSOR P53



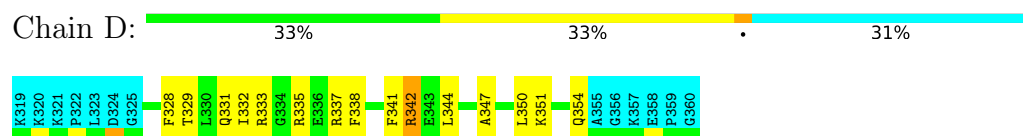
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

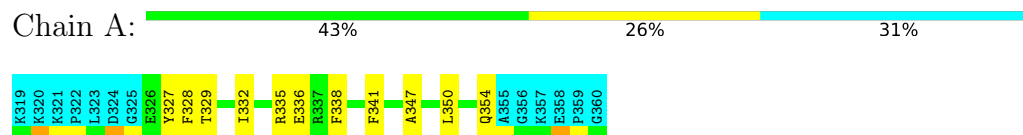


- Molecule 1: TUMOR SUPPRESSOR P53

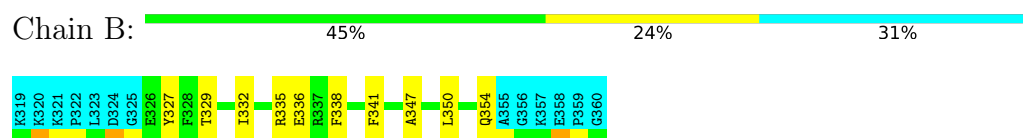


4.2.35 Score per residue for model 35

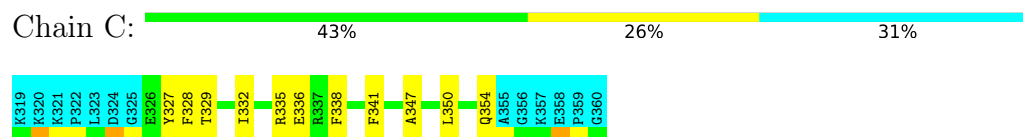
- Molecule 1: TUMOR SUPPRESSOR P53



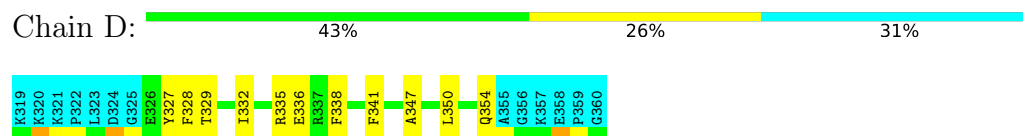
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

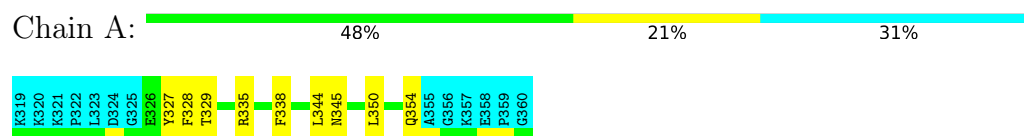


- Molecule 1: TUMOR SUPPRESSOR P53

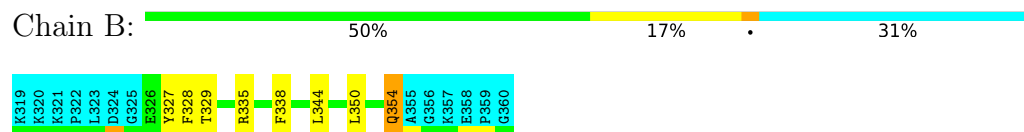


4.2.36 Score per residue for model 36

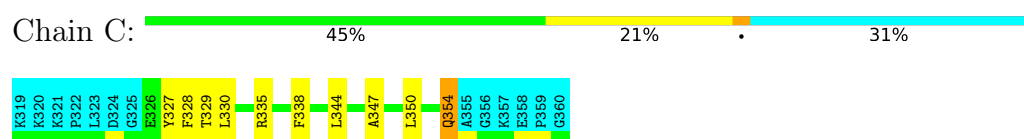
• Molecule 1: TUMOR SUPPRESSOR P53



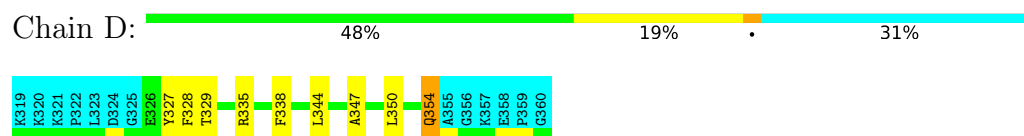
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

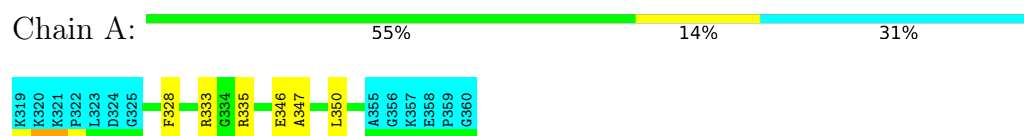


• Molecule 1: TUMOR SUPPRESSOR P53

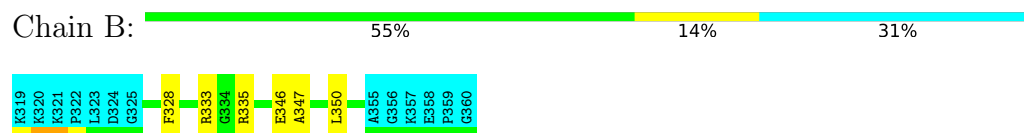


4.2.37 Score per residue for model 37

• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53





- Molecule 1: TUMOR SUPPRESSOR P53



4.2.38 Score per residue for model 38

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

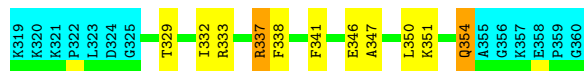


4.2.39 Score per residue for model 39

- Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  43% 21% 5% 31%

• Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  38% 26% 5% 31%

• Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  43% 21% 5% 31%

4.2.40 Score per residue for model 40

• Molecule 1: TUMOR SUPPRESSOR P53

Chain A:  52% 17% 31%

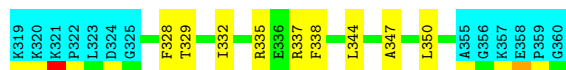
• Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  48% 21% 31%

• Molecule 1: TUMOR SUPPRESSOR P53

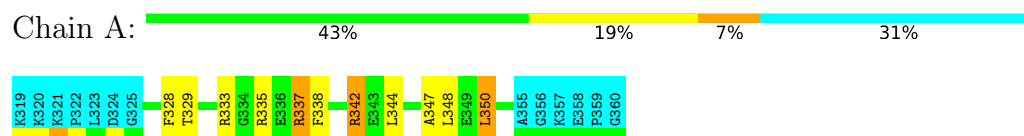
Chain C:  52% 17% 31%

• Molecule 1: TUMOR SUPPRESSOR P53

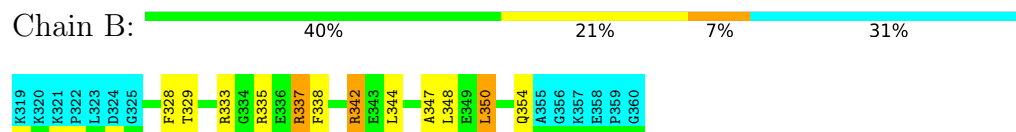
Chain D:  48% 21% 31%

4.2.41 Score per residue for model 41

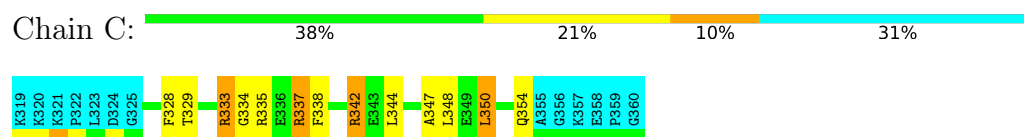
• Molecule 1: TUMOR SUPPRESSOR P53



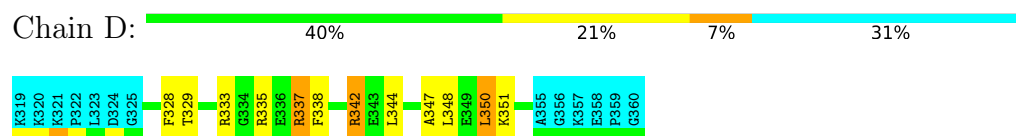
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

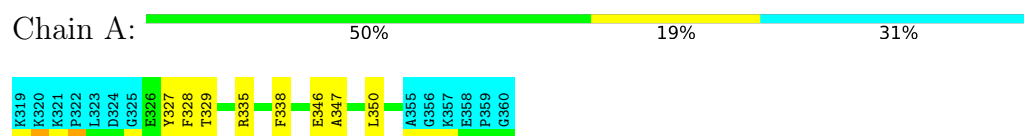


• Molecule 1: TUMOR SUPPRESSOR P53



4.2.42 Score per residue for model 42

• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



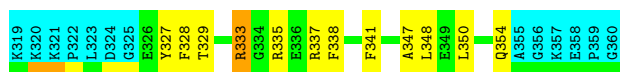


- Molecule 1: TUMOR SUPPRESSOR P53



4.2.43 Score per residue for model 43

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

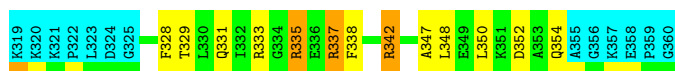


- Molecule 1: TUMOR SUPPRESSOR P53

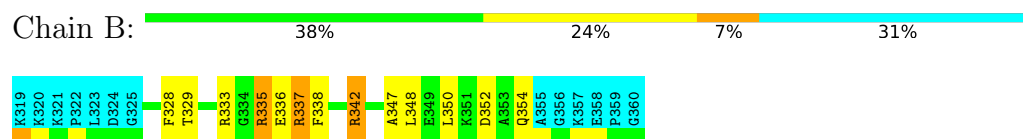


4.2.44 Score per residue for model 44

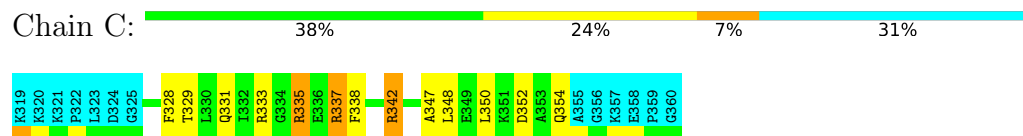
- Molecule 1: TUMOR SUPPRESSOR P53



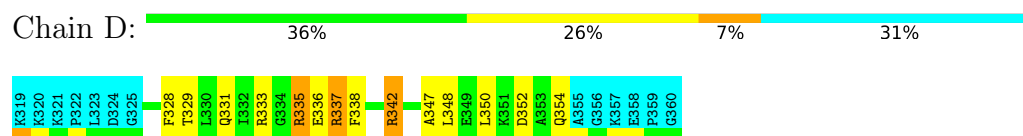
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

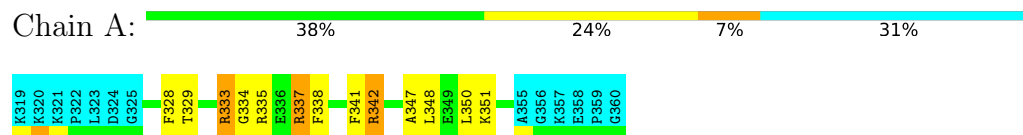


- Molecule 1: TUMOR SUPPRESSOR P53

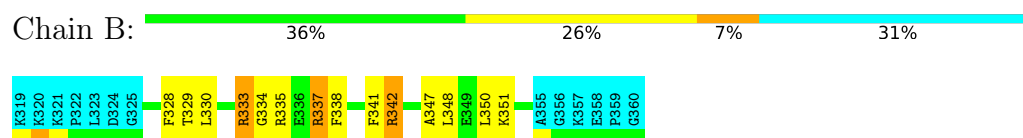


4.2.45 Score per residue for model 45

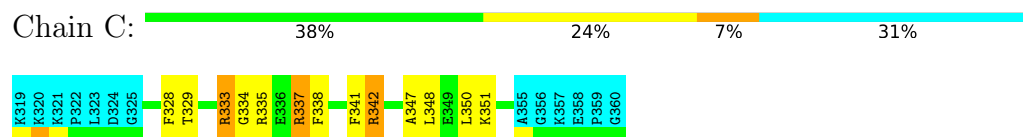
- Molecule 1: TUMOR SUPPRESSOR P53



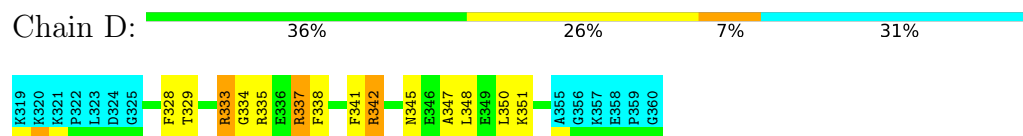
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

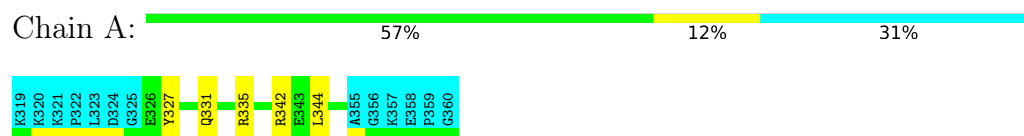


- Molecule 1: TUMOR SUPPRESSOR P53

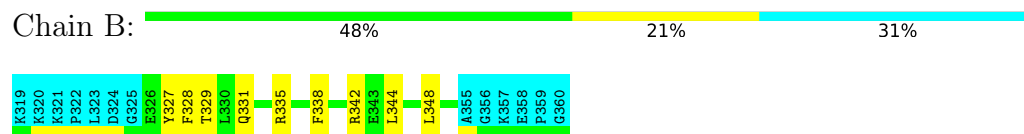


4.2.46 Score per residue for model 46

• Molecule 1: TUMOR SUPPRESSOR P53



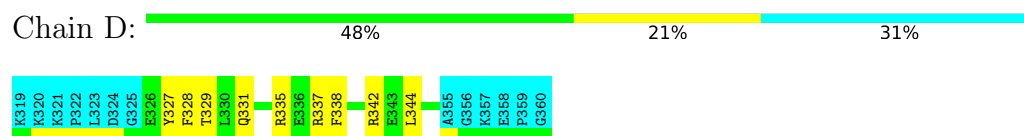
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

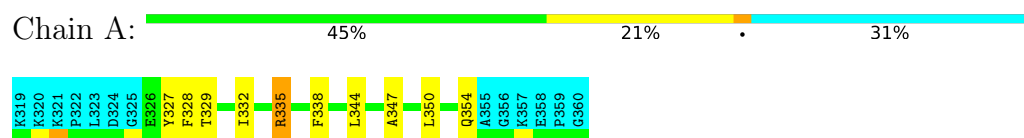


• Molecule 1: TUMOR SUPPRESSOR P53

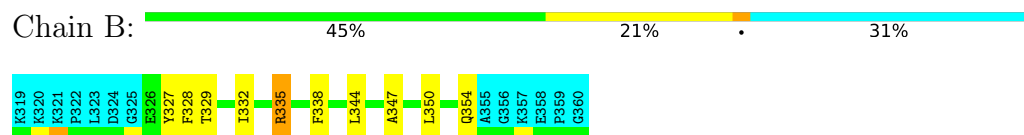


4.2.47 Score per residue for model 47

• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53





- Molecule 1: TUMOR SUPPRESSOR P53



4.2.48 Score per residue for model 48

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

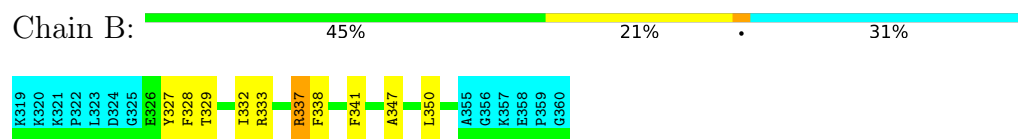


4.2.49 Score per residue for model 49

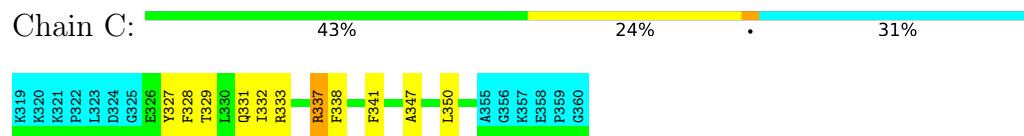
- Molecule 1: TUMOR SUPPRESSOR P53



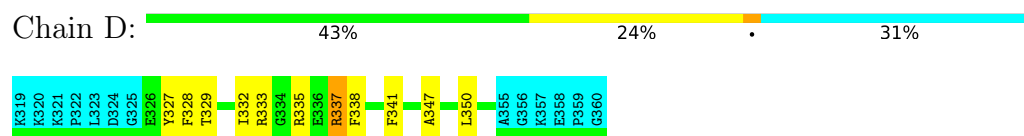
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

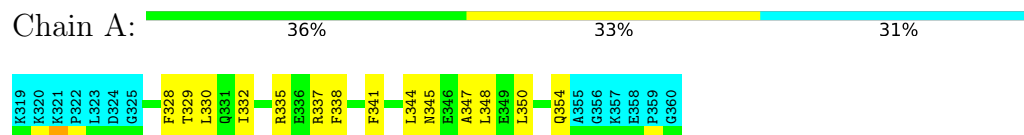


- Molecule 1: TUMOR SUPPRESSOR P53

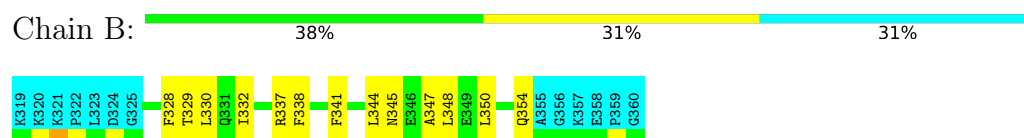


4.2.50 Score per residue for model 50

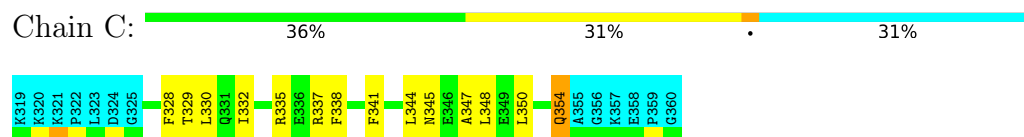
- Molecule 1: TUMOR SUPPRESSOR P53



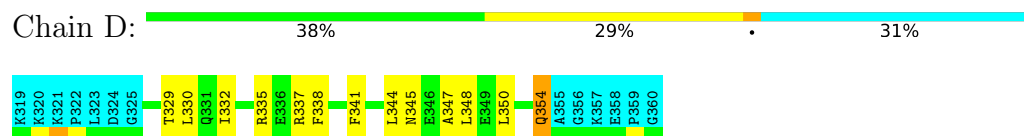
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

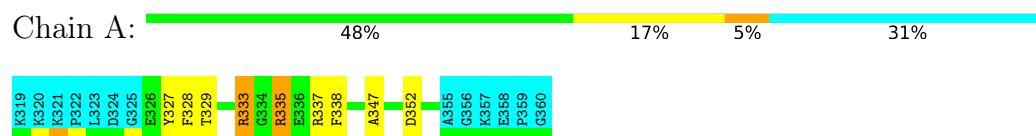


- Molecule 1: TUMOR SUPPRESSOR P53

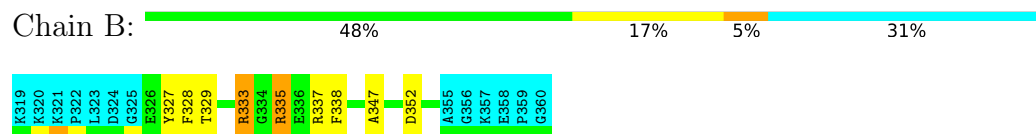


4.2.51 Score per residue for model 51

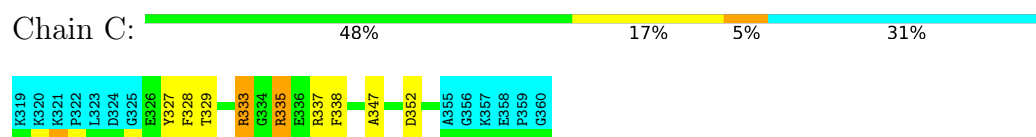
- Molecule 1: TUMOR SUPPRESSOR P53



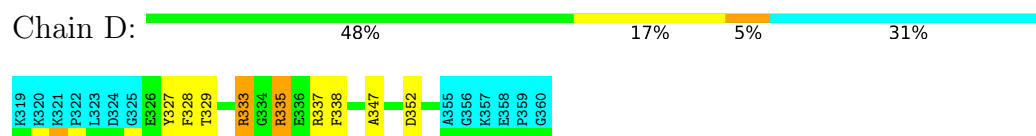
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

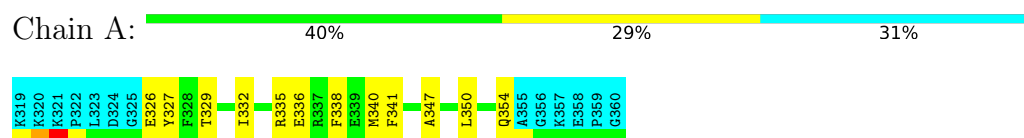


- Molecule 1: TUMOR SUPPRESSOR P53

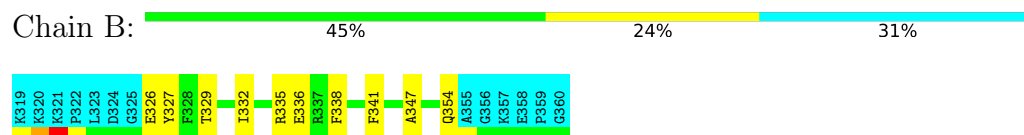


4.2.52 Score per residue for model 52

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



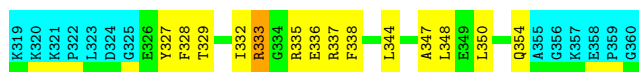
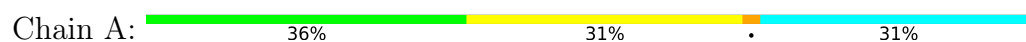


- Molecule 1: TUMOR SUPPRESSOR P53

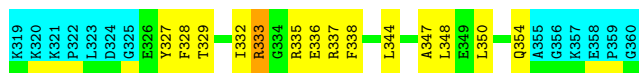


4.2.53 Score per residue for model 53

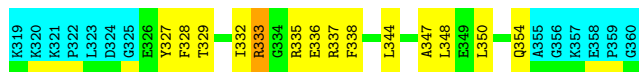
- Molecule 1: TUMOR SUPPRESSOR P53



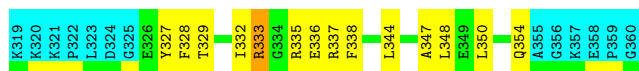
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

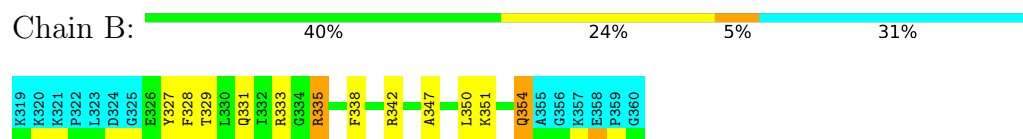


4.2.54 Score per residue for model 54

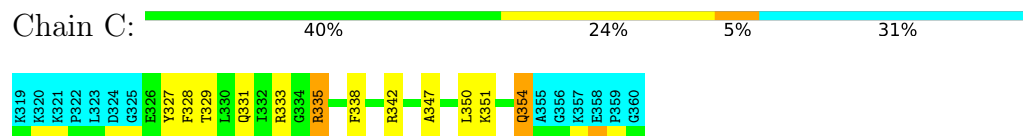
- Molecule 1: TUMOR SUPPRESSOR P53



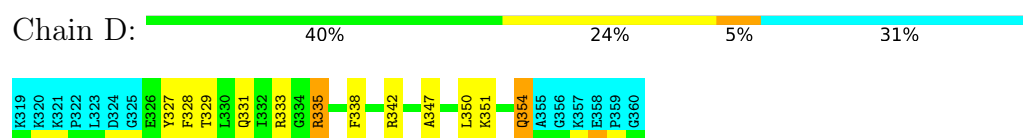
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

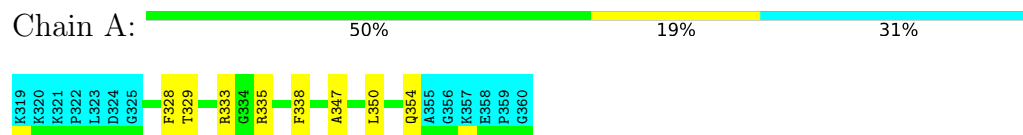


- Molecule 1: TUMOR SUPPRESSOR P53

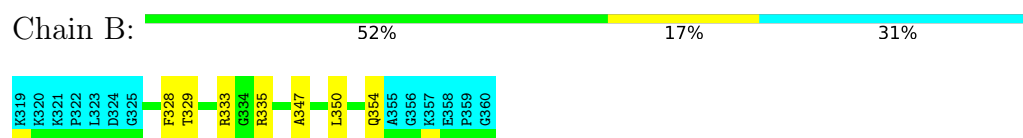


4.2.55 Score per residue for model 55

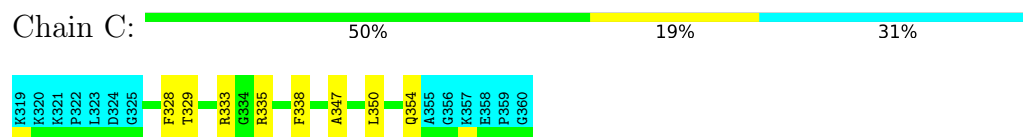
- Molecule 1: TUMOR SUPPRESSOR P53



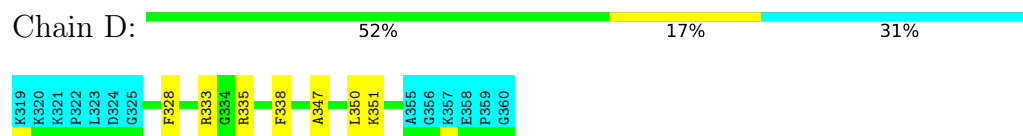
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

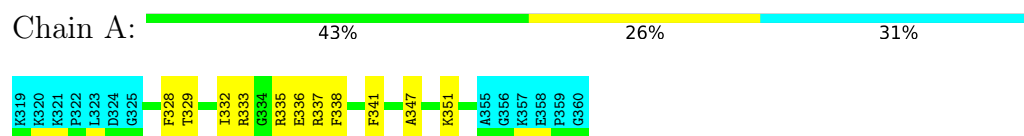


- Molecule 1: TUMOR SUPPRESSOR P53

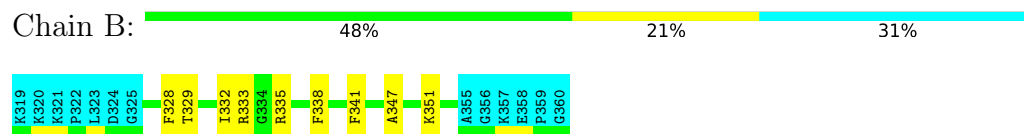


4.2.56 Score per residue for model 56

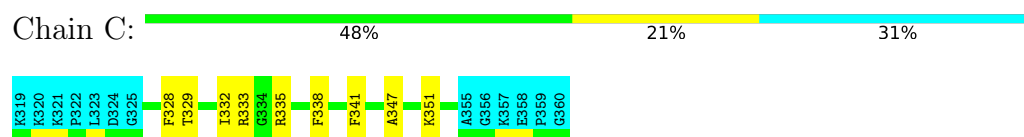
- Molecule 1: TUMOR SUPPRESSOR P53



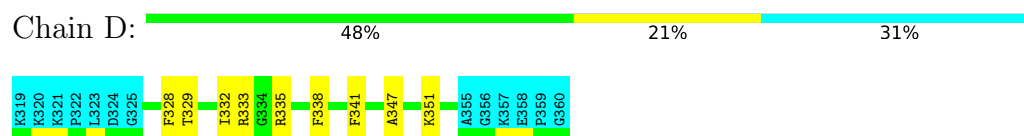
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

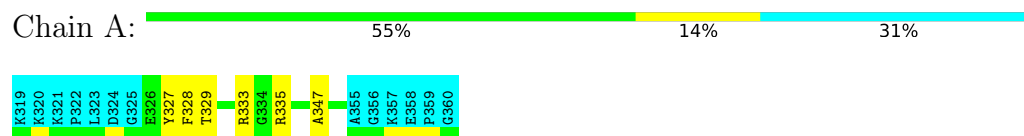


- Molecule 1: TUMOR SUPPRESSOR P53



4.2.57 Score per residue for model 57

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

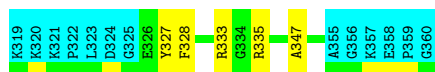


- Molecule 1: TUMOR SUPPRESSOR P53





- Molecule 1: TUMOR SUPPRESSOR P53



4.2.58 Score per residue for model 58

- Molecule 1: TUMOR SUPPRESSOR P53



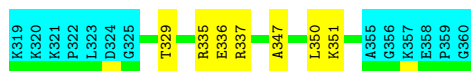
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



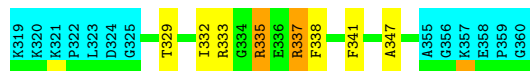
4.2.59 Score per residue for model 59

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

Chain B: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain D: 



4.2.60 Score per residue for model 60

- Molecule 1: TUMOR SUPPRESSOR P53

Chain A: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain B: 



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C: 



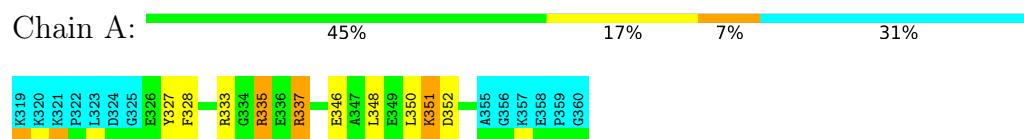
- Molecule 1: TUMOR SUPPRESSOR P53

Chain D: 

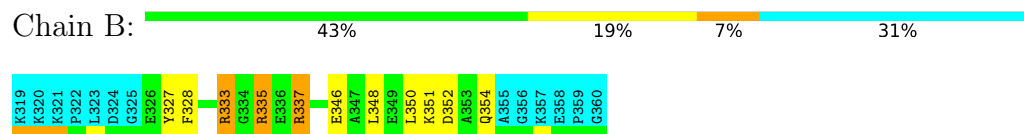


4.2.61 Score per residue for model 61

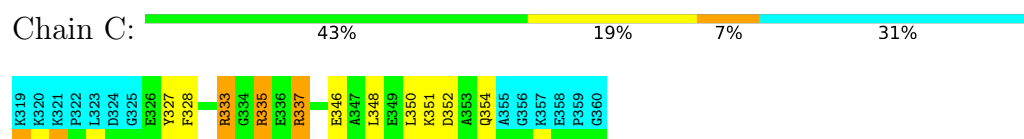
• Molecule 1: TUMOR SUPPRESSOR P53



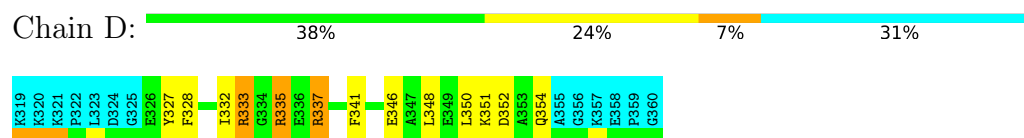
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

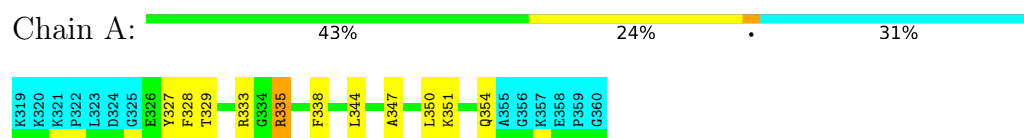


• Molecule 1: TUMOR SUPPRESSOR P53

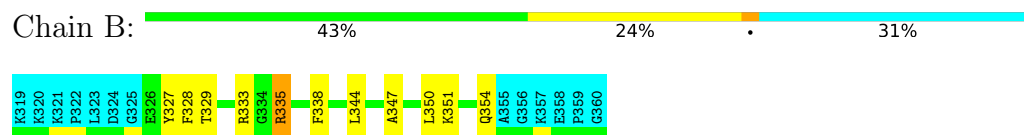


4.2.62 Score per residue for model 62

• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



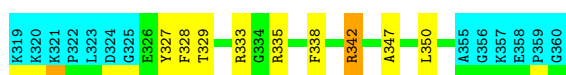


- Molecule 1: TUMOR SUPPRESSOR P53



4.2.63 Score per residue for model 63

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

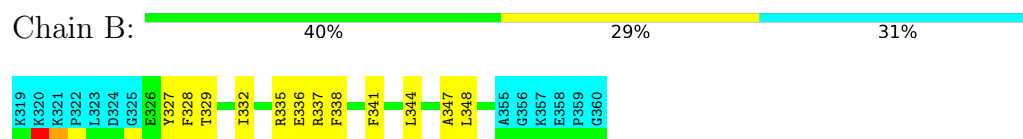


4.2.64 Score per residue for model 64

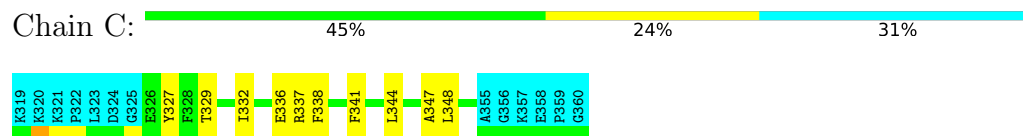
- Molecule 1: TUMOR SUPPRESSOR P53



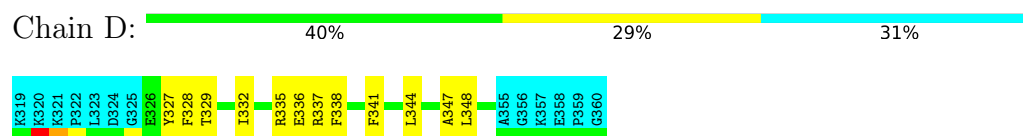
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

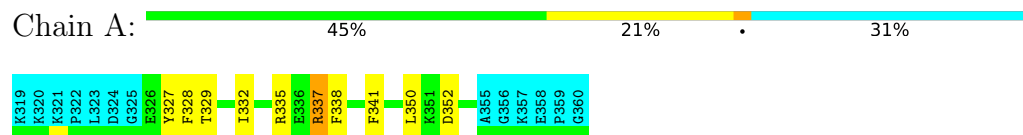


- Molecule 1: TUMOR SUPPRESSOR P53

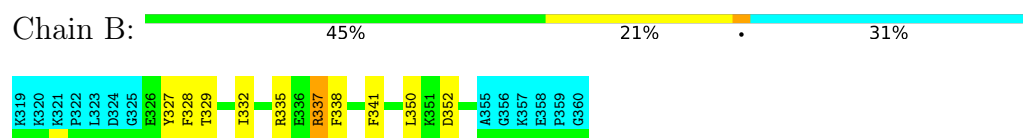


4.2.65 Score per residue for model 65

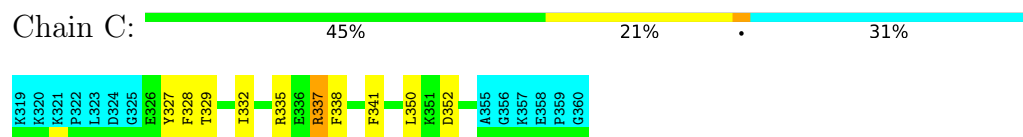
- Molecule 1: TUMOR SUPPRESSOR P53



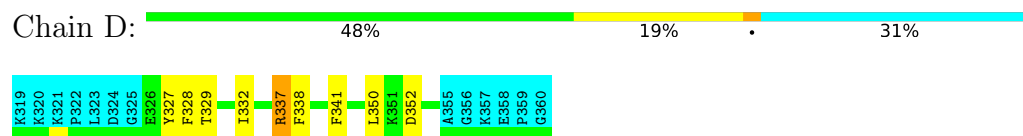
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

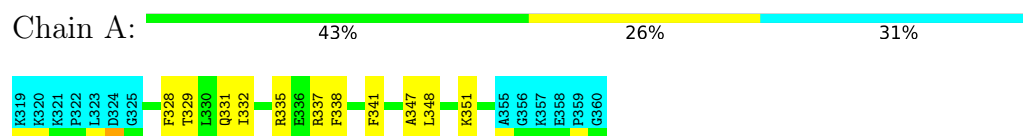


- Molecule 1: TUMOR SUPPRESSOR P53

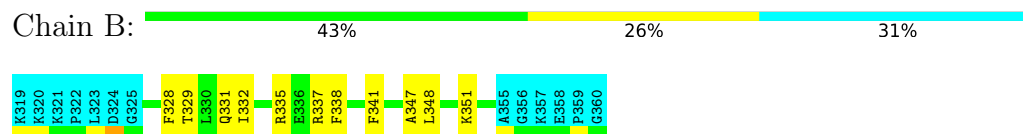


4.2.66 Score per residue for model 66

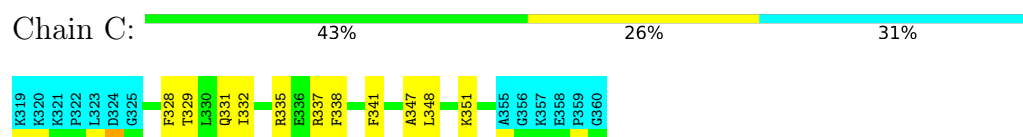
- Molecule 1: TUMOR SUPPRESSOR P53



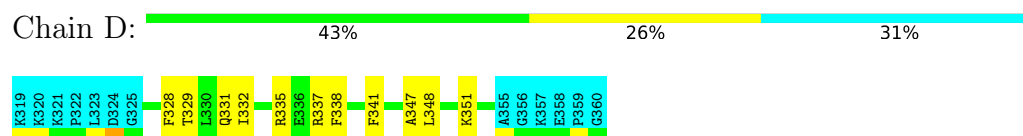
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

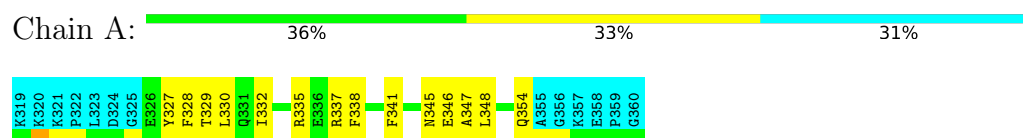


- Molecule 1: TUMOR SUPPRESSOR P53

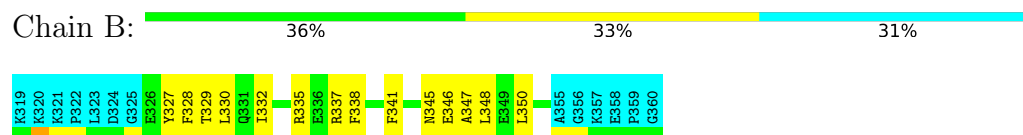


4.2.67 Score per residue for model 67

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



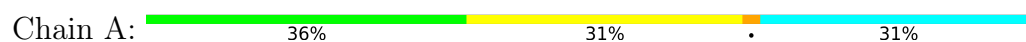


- Molecule 1: TUMOR SUPPRESSOR P53

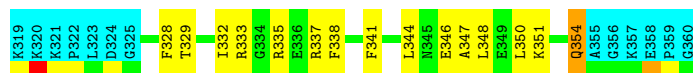


4.2.68 Score per residue for model 68

- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



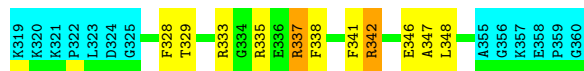
4.2.69 Score per residue for model 69 (medoid)

- Molecule 1: TUMOR SUPPRESSOR P53



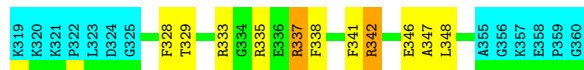
- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  43% 21% 5% 31%



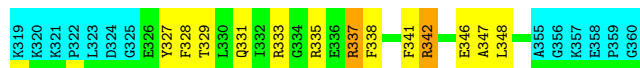
- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  43% 21% 5% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  38% 26% 5% 31%



4.2.70 Score per residue for model 70

- Molecule 1: TUMOR SUPPRESSOR P53

Chain A:  38% 26% 5% 31%



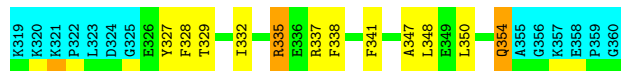
- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  40% 24% 5% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  40% 24% 5% 31%



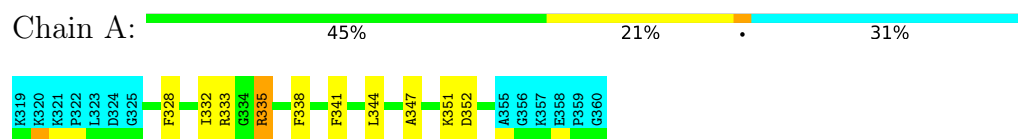
- Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  43% 21% 5% 31%

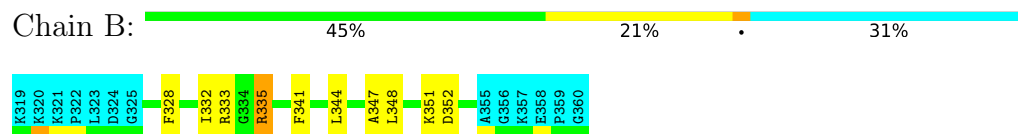


4.2.71 Score per residue for model 71

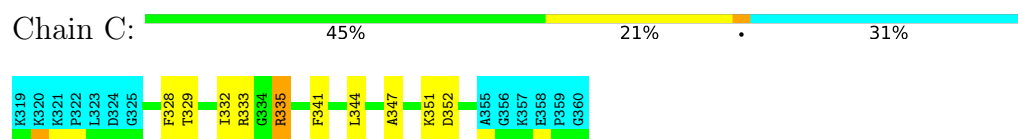
• Molecule 1: TUMOR SUPPRESSOR P53



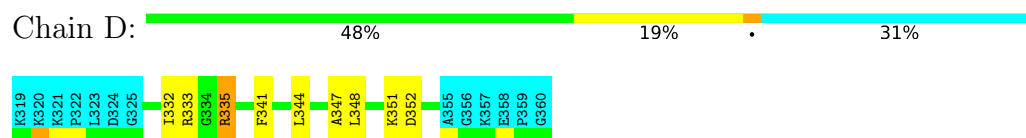
• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53

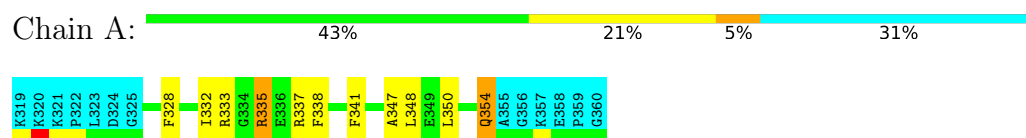


• Molecule 1: TUMOR SUPPRESSOR P53

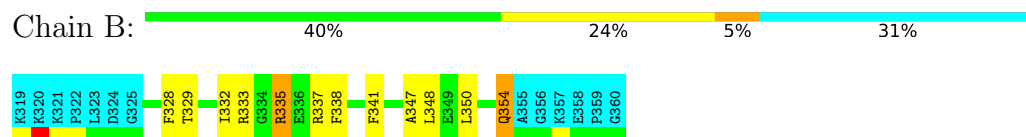


4.2.72 Score per residue for model 72

• Molecule 1: TUMOR SUPPRESSOR P53

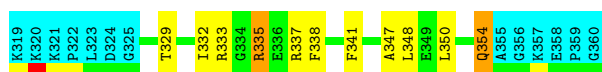


• Molecule 1: TUMOR SUPPRESSOR P53



• Molecule 1: TUMOR SUPPRESSOR P53



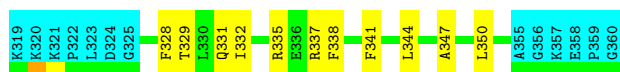


- Molecule 1: TUMOR SUPPRESSOR P53



4.2.73 Score per residue for model 73

- Molecule 1: TUMOR SUPPRESSOR P53



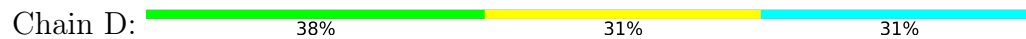
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53

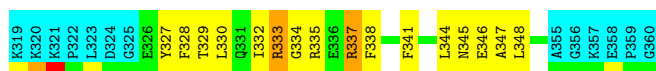


- Molecule 1: TUMOR SUPPRESSOR P53



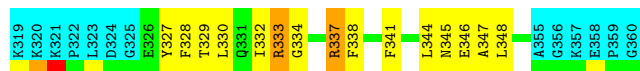
4.2.74 Score per residue for model 74

- Molecule 1: TUMOR SUPPRESSOR P53



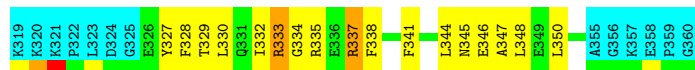
- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  33% 31% 5% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  29% 36% 5% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  31% 33% 5% 31%



4.2.75 Score per residue for model 75

- Molecule 1: TUMOR SUPPRESSOR P53

Chain A:  48% 21% 31%



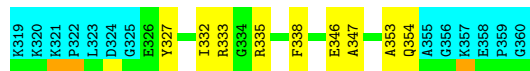
- Molecule 1: TUMOR SUPPRESSOR P53

Chain B:  50% 19% 31%



- Molecule 1: TUMOR SUPPRESSOR P53

Chain C:  48% 21% 31%



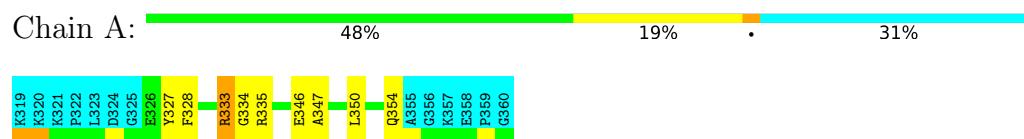
- Molecule 1: TUMOR SUPPRESSOR P53

Chain D:  50% 19% 31%

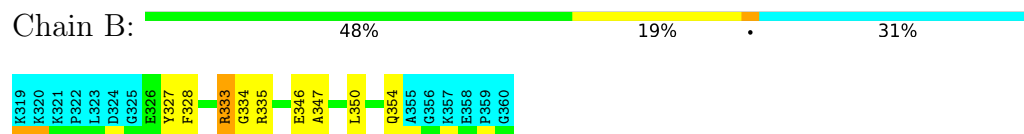


4.2.76 Score per residue for model 76

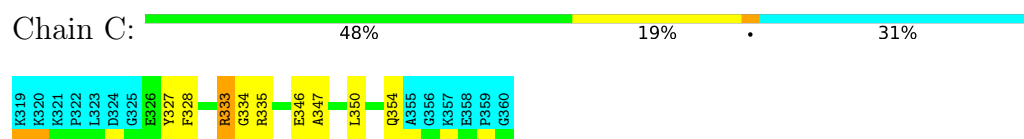
- Molecule 1: TUMOR SUPPRESSOR P53



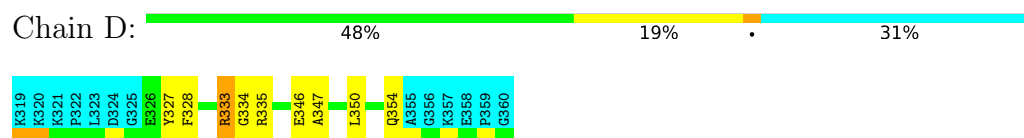
- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



- Molecule 1: TUMOR SUPPRESSOR P53



5 Refinement protocol and experimental data overview ⓘ

The models were refined using the following method: ?.

Of the ? calculated structures, 76 were deposited, based on the following criterion: ?.

The authors did not provide any information on software used for structure solution, optimization or refinement.

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	255	247	247	13±5
1	B	255	247	247	13±5
1	C	255	247	247	14±5
1	D	255	247	247	14±5
All	All	77824	75696	75088	2578

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 17.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:344:LEU:HD22	1:B:344:LEU:HD22	0.91	1.43	33	29
1:A:337:ARG:NH1	1:C:348:LEU:HD13	0.88	1.83	11	9
1:B:348:LEU:HD13	1:D:337:ARG:NH1	0.87	1.84	11	11
1:C:344:LEU:HD22	1:D:344:LEU:HD22	0.85	1.46	46	31
1:A:347:ALA:HB1	1:B:347:ALA:HB1	0.84	1.47	23	70
1:C:347:ALA:HB1	1:D:347:ALA:HB1	0.83	1.50	74	70
1:A:348:LEU:HD13	1:C:337:ARG:NH1	0.83	1.89	11	10
1:C:350:LEU:HD11	1:D:354:GLN:NE2	0.82	1.89	17	17
1:B:337:ARG:NH1	1:D:348:LEU:HD13	0.81	1.90	11	10
1:C:354:GLN:NE2	1:D:350:LEU:HD21	0.81	1.90	72	24
1:A:354:GLN:NE2	1:B:350:LEU:HD21	0.80	1.92	7	18

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:348:LEU:HD22	1:C:337:ARG:NH1	0.80	1.92	53	15
1:A:350:LEU:HD21	1:B:354:GLN:NE2	0.78	1.94	72	20
1:B:348:LEU:HD22	1:D:337:ARG:NH1	0.76	1.95	68	15
1:B:348:LEU:HD22	1:D:337:ARG:HH12	0.74	1.43	68	14
1:A:337:ARG:NH1	1:C:348:LEU:HD22	0.74	1.97	33	15
1:A:350:LEU:HD11	1:B:354:GLN:OE1	0.74	1.83	35	2
1:B:337:ARG:NH1	1:D:348:LEU:HD22	0.72	1.99	53	14
1:A:354:GLN:OE1	1:B:350:LEU:HD11	0.72	1.84	35	2
1:C:350:LEU:HD21	1:D:354:GLN:NE2	0.72	2.00	5	19
1:C:354:GLN:NE2	1:D:350:LEU:HD11	0.72	2.00	17	18
1:B:350:LEU:O	1:B:350:LEU:HD23	0.71	1.86	47	24
1:D:350:LEU:HD23	1:D:350:LEU:O	0.71	1.86	47	24
1:A:350:LEU:HD23	1:A:350:LEU:O	0.70	1.86	47	23
1:A:348:LEU:HD22	1:C:337:ARG:HH12	0.70	1.44	72	14
1:C:350:LEU:O	1:C:350:LEU:HD23	0.70	1.86	47	24
1:A:337:ARG:HH12	1:C:348:LEU:HD22	0.69	1.47	68	14
1:B:337:ARG:HH12	1:D:348:LEU:HD22	0.69	1.47	68	14
1:C:350:LEU:HD21	1:D:354:GLN:OE1	0.68	1.89	62	2
1:C:350:LEU:HD11	1:D:354:GLN:OE1	0.68	1.89	35	2
1:A:350:LEU:HD11	1:B:354:GLN:NE2	0.68	2.04	61	20
1:A:354:GLN:NE2	1:B:350:LEU:HD11	0.67	2.04	17	16
1:C:354:GLN:OE1	1:D:350:LEU:HD11	0.65	1.91	35	2
1:C:350:LEU:HD11	1:D:354:GLN:HE22	0.63	1.53	44	5
1:A:354:GLN:HE21	1:B:350:LEU:HD11	0.63	1.54	68	2
1:C:347:ALA:HB1	1:D:347:ALA:CB	0.63	2.24	28	30
1:A:350:LEU:HD11	1:B:354:GLN:HE21	0.62	1.54	68	3
1:C:347:ALA:CB	1:D:347:ALA:HB1	0.62	2.23	5	24
1:A:348:LEU:HD12	1:C:341:PHE:CZ	0.62	2.30	69	10
1:A:350:LEU:HD11	1:B:354:GLN:HE22	0.61	1.54	25	3
1:A:350:LEU:O	1:A:350:LEU:HD23	0.61	1.95	58	1
1:A:345:ASN:HB2	1:C:330:LEU:HD21	0.61	1.73	67	5
1:B:348:LEU:HD12	1:D:341:PHE:CZ	0.60	2.32	72	14
1:C:354:GLN:HE21	1:D:350:LEU:HD11	0.59	1.57	68	4
1:A:347:ALA:HB1	1:B:347:ALA:CB	0.59	2.27	5	27
1:B:341:PHE:CZ	1:D:348:LEU:HD12	0.59	2.33	72	13
1:A:341:PHE:CZ	1:C:348:LEU:HD12	0.59	2.32	43	11
1:D:332:ILE:HD12	1:D:338:PHE:CD1	0.58	2.33	9	20
1:B:330:LEU:HD21	1:D:345:ASN:HB2	0.58	1.75	67	5
1:A:347:ALA:CB	1:B:347:ALA:HB1	0.58	2.28	41	26
1:B:332:ILE:HD12	1:B:338:PHE:CD1	0.58	2.33	9	19
1:A:330:LEU:HD21	1:C:345:ASN:HB2	0.58	1.75	67	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:338:PHE:CE1	1:D:329:THR:O	0.58	2.57	17	61
1:C:332:ILE:HD12	1:C:338:PHE:CD1	0.58	2.33	9	19
1:D:335:ARG:CB	1:D:335:ARG:CZ	0.58	2.82	54	2
1:B:329:THR:O	1:D:338:PHE:CE1	0.58	2.57	65	63
1:B:335:ARG:CZ	1:B:335:ARG:CB	0.58	2.81	38	2
1:B:337:ARG:HD2	1:D:348:LEU:HD13	0.58	1.75	64	4
1:A:338:PHE:CE1	1:C:329:THR:O	0.58	2.57	65	57
1:A:332:ILE:HD13	1:A:341:PHE:HB2	0.57	1.76	48	22
1:B:332:ILE:HD13	1:B:341:PHE:HB2	0.57	1.76	48	23
1:A:332:ILE:HD12	1:A:338:PHE:CD1	0.57	2.33	9	19
1:A:335:ARG:CB	1:A:335:ARG:CZ	0.57	2.81	38	2
1:C:335:ARG:CZ	1:C:335:ARG:CB	0.57	2.81	38	2
1:A:332:ILE:HD13	1:A:341:PHE:CD2	0.57	2.35	70	5
1:C:332:ILE:HD13	1:C:341:PHE:CD2	0.57	2.35	70	5
1:A:329:THR:O	1:C:338:PHE:CE1	0.56	2.58	65	58
1:D:332:ILE:HD13	1:D:341:PHE:HB2	0.56	1.76	48	23
1:D:332:ILE:HD13	1:D:341:PHE:CD2	0.56	2.35	70	5
1:B:345:ASN:HB2	1:D:330:LEU:HD21	0.56	1.77	67	4
1:B:332:ILE:HD13	1:B:341:PHE:CD2	0.56	2.35	70	5
1:C:332:ILE:HD13	1:C:341:PHE:HB2	0.56	1.76	48	23
1:C:350:LEU:HD21	1:D:354:GLN:HE21	0.56	1.60	16	3
1:A:337:ARG:HD2	1:C:348:LEU:HD13	0.56	1.78	64	3
1:A:348:LEU:HD13	1:C:337:ARG:HD2	0.56	1.78	64	4
1:A:328:PHE:CE2	1:C:335:ARG:HA	0.55	2.36	50	62
1:B:348:LEU:HD12	1:D:341:PHE:HZ	0.55	1.61	69	6
1:A:338:PHE:CZ	1:C:329:THR:O	0.55	2.60	18	19
1:C:350:LEU:HD11	1:D:354:GLN:HE21	0.55	1.61	36	4
1:B:328:PHE:CE2	1:D:335:ARG:HA	0.55	2.37	53	65
1:B:338:PHE:CZ	1:D:329:THR:O	0.54	2.61	65	19
1:C:354:GLN:HE22	1:D:350:LEU:HD11	0.54	1.62	25	4
1:C:354:GLN:HE21	1:D:350:LEU:HD21	0.54	1.62	13	2
1:A:335:ARG:HA	1:C:328:PHE:CE2	0.54	2.38	11	66
1:A:350:LEU:HD11	1:B:354:GLN:CD	0.54	2.22	35	1
1:A:354:GLN:OE1	1:B:350:LEU:HD21	0.54	2.03	62	2
1:B:341:PHE:HZ	1:D:348:LEU:HD12	0.53	1.63	69	7
1:B:348:LEU:HD13	1:D:337:ARG:HD2	0.53	1.80	70	3
1:A:354:GLN:CD	1:B:350:LEU:HD11	0.53	2.23	35	1
1:C:350:LEU:HD11	1:D:354:GLN:CD	0.53	2.22	62	2
1:C:350:LEU:HD23	1:D:350:LEU:HD23	0.53	1.79	36	2
1:B:335:ARG:HA	1:D:328:PHE:CE2	0.53	2.38	12	61
1:C:350:LEU:HD22	1:D:350:LEU:HD22	0.53	1.81	60	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:329:THR:O	1:C:338:PHE:CZ	0.53	2.61	65	18
1:A:354:GLN:HE21	1:B:350:LEU:HD21	0.53	1.64	16	3
1:B:329:THR:O	1:D:338:PHE:CZ	0.52	2.61	65	19
1:A:348:LEU:HD12	1:C:341:PHE:HZ	0.52	1.64	43	6
1:A:337:ARG:HH11	1:C:348:LEU:HD13	0.52	1.63	11	1
1:A:354:GLN:HE22	1:B:350:LEU:HD11	0.52	1.63	17	2
1:A:328:PHE:CE1	1:C:335:ARG:HA	0.52	2.40	61	3
1:A:341:PHE:HZ	1:C:348:LEU:HD12	0.51	1.65	43	5
1:A:351:LYS:HD3	1:B:350:LEU:HD12	0.51	1.81	2	2
1:A:337:ARG:CZ	1:C:348:LEU:HB3	0.51	2.36	41	12
1:B:328:PHE:CE1	1:D:335:ARG:HA	0.51	2.41	61	3
1:A:332:ILE:HD12	1:A:338:PHE:HD1	0.51	1.66	9	6
1:B:337:ARG:CZ	1:D:348:LEU:HB3	0.50	2.36	41	12
1:A:348:LEU:HB3	1:C:337:ARG:CZ	0.50	2.37	41	9
1:B:332:ILE:HD12	1:B:338:PHE:HD1	0.50	1.66	9	6
1:D:332:ILE:HD12	1:D:338:PHE:HD1	0.50	1.66	9	8
1:A:350:LEU:HD21	1:B:354:GLN:OE1	0.50	2.06	62	2
1:C:332:ILE:HD12	1:C:338:PHE:HD1	0.50	1.67	9	8
1:B:335:ARG:HA	1:D:328:PHE:CE1	0.49	2.42	61	3
1:B:348:LEU:HB3	1:D:337:ARG:CZ	0.49	2.37	41	10
1:C:350:LEU:CD1	1:D:351:LYS:HA	0.49	2.37	58	6
1:D:337:ARG:NH1	1:D:337:ARG:HG3	0.49	2.23	3	3
1:B:348:LEU:HB2	1:D:337:ARG:NH2	0.49	2.23	41	4
1:B:332:ILE:HD13	1:B:341:PHE:CB	0.49	2.38	74	9
1:C:335:ARG:HG3	1:C:335:ARG:NH1	0.49	2.22	29	2
1:B:326:GLU:HB3	1:B:328:PHE:CZ	0.49	2.43	5	1
1:A:335:ARG:NH1	1:A:335:ARG:HG3	0.49	2.22	29	4
1:B:335:ARG:HG3	1:B:335:ARG:NH1	0.49	2.22	29	2
1:B:337:ARG:NH2	1:D:348:LEU:HB2	0.49	2.23	41	2
1:A:354:GLN:NE2	1:B:354:GLN:NE2	0.49	2.61	52	1
1:A:337:ARG:NH1	1:A:337:ARG:HG3	0.48	2.23	3	2
1:D:333:ARG:NH1	1:D:333:ARG:CG	0.48	2.76	11	12
1:A:332:ILE:HD13	1:A:341:PHE:CB	0.48	2.38	74	8
1:C:332:ILE:HD13	1:C:341:PHE:CB	0.48	2.38	74	10
1:D:332:ILE:HD13	1:D:341:PHE:CB	0.48	2.38	74	9
1:A:350:LEU:HD21	1:B:354:GLN:HE21	0.48	1.68	48	4
1:D:335:ARG:HG3	1:D:335:ARG:NH1	0.48	2.22	29	2
1:C:350:LEU:CD1	1:D:354:GLN:NE2	0.48	2.75	62	5
1:A:328:PHE:CZ	1:C:335:ARG:HD2	0.48	2.43	44	1
1:A:337:ARG:NH2	1:C:348:LEU:HB2	0.48	2.24	41	5
1:A:326:GLU:HB3	1:A:328:PHE:CZ	0.48	2.43	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:340:MET:SD	1:D:340:MET:CG	0.48	3.01	24	1
1:B:337:ARG:NH1	1:B:337:ARG:HG3	0.48	2.23	44	3
1:D:326:GLU:HB3	1:D:328:PHE:CZ	0.48	2.43	5	1
1:C:337:ARG:NH1	1:C:337:ARG:HG3	0.48	2.23	3	3
1:A:350:LEU:O	1:A:350:LEU:CD2	0.48	2.62	47	5
1:A:342:ARG:NH1	1:A:342:ARG:CG	0.48	2.77	44	6
1:A:350:LEU:HD22	1:B:350:LEU:HD22	0.48	1.86	37	3
1:B:328:PHE:CZ	1:D:335:ARG:HD2	0.48	2.44	44	1
1:B:328:PHE:CE2	1:D:335:ARG:CA	0.47	2.97	11	5
1:B:333:ARG:CG	1:B:333:ARG:NH1	0.47	2.76	11	8
1:A:335:ARG:CA	1:C:328:PHE:CE2	0.47	2.97	11	2
1:A:335:ARG:HA	1:C:328:PHE:CE1	0.47	2.44	19	3
1:C:326:GLU:HB3	1:C:328:PHE:CZ	0.47	2.43	5	1
1:A:337:ARG:HG3	1:A:337:ARG:NH1	0.47	2.23	44	1
1:A:354:GLN:NE2	1:B:350:LEU:CD2	0.47	2.75	7	1
1:B:350:LEU:O	1:B:350:LEU:CD2	0.47	2.62	47	4
1:B:335:ARG:NH1	1:B:335:ARG:CG	0.47	2.77	47	13
1:B:342:ARG:NH1	1:B:342:ARG:CG	0.47	2.77	44	7
1:A:340:MET:CG	1:D:340:MET:SD	0.47	3.03	24	2
1:C:342:ARG:NH1	1:C:342:ARG:CG	0.47	2.77	44	7
1:B:335:ARG:HD2	1:D:328:PHE:CZ	0.47	2.45	44	1
1:D:335:ARG:NH1	1:D:335:ARG:CG	0.47	2.77	47	13
1:C:354:GLN:OE1	1:D:350:LEU:HD21	0.47	2.10	47	1
1:A:348:LEU:HB2	1:C:337:ARG:NH2	0.47	2.24	41	4
1:A:333:ARG:NH1	1:A:333:ARG:HG2	0.47	2.26	48	10
1:A:327:TYR:N	1:A:327:TYR:CD1	0.46	2.83	65	13
1:C:333:ARG:NH1	1:C:333:ARG:CG	0.46	2.76	11	12
1:C:327:TYR:CD1	1:C:327:TYR:N	0.46	2.83	65	21
1:D:327:TYR:CD1	1:D:327:TYR:N	0.46	2.83	65	22
1:B:327:TYR:N	1:B:327:TYR:CD1	0.46	2.83	65	7
1:C:333:ARG:NH1	1:C:333:ARG:HG2	0.46	2.25	55	10
1:D:342:ARG:NH1	1:D:342:ARG:CG	0.46	2.78	45	7
1:A:335:ARG:NH1	1:A:335:ARG:HG2	0.46	2.25	26	6
1:A:327:TYR:CZ	1:C:333:ARG:HD2	0.46	2.45	22	1
1:C:350:LEU:HD13	1:D:354:GLN:NE2	0.46	2.25	50	2
1:A:333:ARG:NH1	1:A:333:ARG:CG	0.46	2.77	51	12
1:B:335:ARG:NH1	1:B:335:ARG:HG2	0.46	2.25	13	6
1:C:351:LYS:HA	1:D:350:LEU:CD1	0.46	2.41	11	3
1:A:350:LEU:HD23	1:A:350:LEU:C	0.46	2.31	33	20
1:D:335:ARG:CZ	1:D:335:ARG:HB2	0.46	2.41	38	1
1:A:335:ARG:NH1	1:A:335:ARG:CG	0.46	2.79	71	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:350:LEU:CD1	1:B:351:LYS:HA	0.46	2.41	11	1
1:C:350:LEU:HD23	1:C:350:LEU:C	0.46	2.31	33	18
1:D:335:ARG:NH1	1:D:335:ARG:HG2	0.46	2.25	13	3
1:A:332:ILE:HG21	1:A:341:PHE:HD2	0.46	1.71	64	1
1:C:350:LEU:HD12	1:D:351:LYS:HD3	0.46	1.85	2	2
1:A:337:ARG:NH2	1:C:348:LEU:CB	0.46	2.79	41	4
1:C:351:LYS:HA	1:D:350:LEU:CD2	0.46	2.41	6	1
1:C:335:ARG:NH1	1:C:335:ARG:CG	0.46	2.77	47	15
1:C:335:ARG:NH1	1:C:335:ARG:HG2	0.46	2.25	13	6
1:B:350:LEU:CD2	1:B:350:LEU:C	0.45	2.85	41	10
1:A:345:ASN:ND2	1:C:331:GLN:O	0.45	2.49	3	1
1:D:333:ARG:HG2	1:D:333:ARG:NH1	0.45	2.26	43	3
1:C:332:ILE:HD13	1:C:341:PHE:CG	0.45	2.46	67	4
1:B:350:LEU:HD23	1:B:350:LEU:C	0.45	2.32	26	19
1:C:335:ARG:CZ	1:C:335:ARG:HB2	0.45	2.41	38	1
1:D:332:ILE:HD13	1:D:341:PHE:CG	0.45	2.46	67	4
1:D:335:ARG:HG2	1:D:335:ARG:NH1	0.45	2.25	26	3
1:A:331:GLN:O	1:C:345:ASN:ND2	0.45	2.49	3	1
1:C:337:ARG:NH1	1:C:337:ARG:CG	0.45	2.78	3	8
1:A:337:ARG:HG2	1:A:337:ARG:NH1	0.45	2.27	25	1
1:D:337:ARG:NH1	1:D:337:ARG:CG	0.45	2.78	3	8
1:A:328:PHE:CE2	1:C:335:ARG:CA	0.45	2.99	9	2
1:B:350:LEU:C	1:B:350:LEU:CD2	0.45	2.85	33	14
1:D:350:LEU:HD23	1:D:350:LEU:C	0.45	2.31	33	19
1:B:333:ARG:NH1	1:B:333:ARG:HG2	0.45	2.25	55	10
1:B:335:ARG:CZ	1:B:335:ARG:HB2	0.45	2.41	38	1
1:A:350:LEU:C	1:A:350:LEU:CD2	0.45	2.85	33	15
1:B:348:LEU:HD13	1:D:337:ARG:CZ	0.45	2.40	11	2
1:B:337:ARG:NH1	1:B:337:ARG:CG	0.45	2.78	3	9
1:B:345:ASN:ND2	1:D:331:GLN:O	0.45	2.50	3	1
1:A:332:ILE:HD13	1:A:341:PHE:CG	0.45	2.46	67	5
1:B:348:LEU:CB	1:D:337:ARG:NH2	0.45	2.79	41	3
1:A:335:ARG:HD2	1:C:328:PHE:CZ	0.45	2.47	44	1
1:D:350:LEU:C	1:D:350:LEU:CD2	0.45	2.85	41	19
1:B:337:ARG:NH2	1:D:348:LEU:CB	0.45	2.79	41	3
1:A:333:ARG:HD2	1:C:327:TYR:CZ	0.45	2.46	48	1
1:D:332:ILE:HG21	1:D:341:PHE:HD2	0.45	1.71	64	1
1:D:350:LEU:O	1:D:350:LEU:CD2	0.45	2.61	47	4
1:B:332:ILE:HD13	1:B:341:PHE:CG	0.45	2.46	67	4
1:A:350:LEU:HD23	1:B:350:LEU:HD23	0.45	1.89	36	1
1:B:332:ILE:HG21	1:B:341:PHE:HD2	0.45	1.71	64	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:350:LEU:C	1:C:350:LEU:CD2	0.44	2.85	41	22
1:D:336:GLU:HG3	1:D:337:ARG:N	0.44	2.28	53	2
1:C:332:ILE:HG21	1:C:341:PHE:HD2	0.44	1.71	64	1
1:A:350:LEU:CD2	1:A:350:LEU:C	0.44	2.85	41	6
1:C:350:LEU:O	1:C:350:LEU:CD2	0.44	2.62	47	4
1:A:348:LEU:CB	1:C:337:ARG:NH2	0.44	2.80	4	4
1:B:327:TYR:CE2	1:D:333:ARG:HG3	0.44	2.46	5	2
1:C:337:ARG:HB2	1:C:337:ARG:NH1	0.44	2.28	18	1
1:D:337:ARG:HB2	1:D:337:ARG:NH1	0.44	2.28	18	1
1:A:328:PHE:CE1	1:C:335:ARG:CA	0.44	2.99	61	1
1:D:333:ARG:NH1	1:D:333:ARG:HG2	0.44	2.27	53	7
1:C:337:ARG:NH1	1:C:337:ARG:HG2	0.44	2.27	25	5
1:A:335:ARG:CZ	1:A:335:ARG:HB2	0.44	2.41	38	1
1:A:328:PHE:O	1:A:329:THR:HG23	0.44	2.12	49	5
1:B:342:ARG:HA	1:D:330:LEU:HD11	0.44	1.89	19	1
1:A:351:LYS:HA	1:B:350:LEU:CD2	0.44	2.43	70	1
1:A:337:ARG:NH1	1:A:337:ARG:CG	0.44	2.80	8	10
1:C:342:ARG:NH1	1:C:342:ARG:HG2	0.44	2.28	34	1
1:D:342:ARG:HG2	1:D:342:ARG:NH1	0.44	2.28	34	1
1:B:333:ARG:NH1	1:B:333:ARG:CG	0.44	2.80	55	4
1:B:333:ARG:HD2	1:D:327:TYR:CZ	0.44	2.48	22	1
1:B:336:GLU:HG3	1:B:337:ARG:N	0.44	2.28	53	2
1:C:328:PHE:O	1:C:329:THR:HG23	0.44	2.13	49	5
1:D:337:ARG:NH1	1:D:337:ARG:HG2	0.44	2.28	65	4
1:D:333:ARG:HB3	1:D:333:ARG:CZ	0.44	2.43	28	1
1:B:342:ARG:NH1	1:B:342:ARG:HG2	0.44	2.27	34	1
1:A:337:ARG:HB2	1:A:337:ARG:NH1	0.44	2.28	18	1
1:C:337:ARG:CG	1:C:337:ARG:NH1	0.43	2.80	39	2
1:C:350:LEU:CD2	1:D:350:LEU:HG	0.43	2.43	17	3
1:C:354:GLN:NE2	1:D:350:LEU:HD13	0.43	2.28	50	1
1:D:333:ARG:HG2	1:D:334:GLY:N	0.43	2.28	74	3
1:B:337:ARG:HB2	1:B:337:ARG:NH1	0.43	2.28	18	1
1:C:333:ARG:CZ	1:C:333:ARG:HB3	0.43	2.42	28	1
1:B:328:PHE:CE1	1:D:335:ARG:CA	0.43	3.01	61	1
1:B:332:ILE:HG21	1:B:341:PHE:CD2	0.43	2.48	64	2
1:C:336:GLU:HG3	1:C:337:ARG:N	0.43	2.28	53	2
1:A:342:ARG:NH1	1:A:342:ARG:HG2	0.43	2.28	34	1
1:B:333:ARG:HG2	1:B:334:GLY:N	0.43	2.28	74	2
1:D:326:GLU:CB	1:D:328:PHE:CZ	0.43	3.02	5	1
1:A:342:ARG:HA	1:C:330:LEU:HD11	0.43	1.90	19	1
1:B:337:ARG:NH1	1:B:337:ARG:HG2	0.43	2.27	25	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:336:GLU:HG3	1:A:337:ARG:N	0.43	2.28	53	2
1:D:332:ILE:HG21	1:D:341:PHE:CD2	0.43	2.49	74	3
1:B:326:GLU:CB	1:B:328:PHE:CZ	0.43	3.02	5	1
1:A:337:ARG:CZ	1:C:348:LEU:HD13	0.43	2.43	11	1
1:A:333:ARG:CZ	1:A:333:ARG:HB3	0.43	2.43	28	1
1:C:335:ARG:NH1	1:C:335:ARG:HG3	0.43	2.28	59	2
1:D:335:ARG:NH1	1:D:335:ARG:HG3	0.43	2.28	59	2
1:C:344:LEU:CD2	1:D:344:LEU:HD22	0.43	2.41	53	1
1:B:328:PHE:O	1:B:329:THR:HG23	0.43	2.13	49	5
1:C:354:GLN:HE22	1:D:350:LEU:HD21	0.43	1.72	72	1
1:B:331:GLN:O	1:D:345:ASN:ND2	0.43	2.50	3	1
1:C:326:GLU:CB	1:C:328:PHE:CZ	0.43	3.02	5	1
1:A:332:ILE:HG21	1:A:341:PHE:CD2	0.43	2.48	64	2
1:B:330:LEU:HD11	1:D:342:ARG:HA	0.43	1.90	19	1
1:B:333:ARG:CZ	1:B:333:ARG:HB3	0.43	2.42	28	1
1:C:354:GLN:NE2	1:D:350:LEU:CD1	0.43	2.81	50	2
1:A:333:ARG:HD3	1:A:334:GLY:N	0.43	2.29	45	1
1:D:333:ARG:NE	1:D:334:GLY:N	0.43	2.67	11	1
1:D:333:ARG:HD3	1:D:334:GLY:N	0.43	2.29	45	1
1:B:327:TYR:CD1	1:B:327:TYR:N	0.43	2.87	21	17
1:A:326:GLU:CB	1:A:328:PHE:CZ	0.43	3.02	5	1
1:A:327:TYR:CE2	1:C:333:ARG:HG3	0.43	2.49	61	2
1:A:351:LYS:HA	1:B:350:LEU:CD1	0.43	2.44	32	2
1:C:333:ARG:HD3	1:C:334:GLY:N	0.43	2.29	45	1
1:A:327:TYR:CD1	1:A:327:TYR:N	0.42	2.87	6	8
1:B:333:ARG:HG3	1:D:327:TYR:CE2	0.42	2.49	61	1
1:A:337:ARG:NH1	1:A:337:ARG:HG2	0.42	2.28	65	4
1:C:332:ILE:HG21	1:C:341:PHE:CD2	0.42	2.48	64	2
1:C:333:ARG:NE	1:C:334:GLY:N	0.42	2.67	11	1
1:A:335:ARG:CA	1:C:328:PHE:CE1	0.42	3.02	61	1
1:A:333:ARG:HG2	1:A:334:GLY:N	0.42	2.28	74	2
1:B:335:ARG:CG	1:B:335:ARG:NH1	0.42	2.78	8	1
1:B:337:ARG:CZ	1:D:348:LEU:HD13	0.42	2.44	24	1
1:C:350:LEU:HG	1:D:350:LEU:CD2	0.42	2.45	27	2
1:C:350:LEU:CD2	1:C:350:LEU:C	0.42	2.87	47	2
1:B:335:ARG:CA	1:D:328:PHE:CE2	0.42	3.02	11	4
1:D:328:PHE:O	1:D:329:THR:HG23	0.42	2.13	49	4
1:A:328:PHE:O	1:C:331:GLN:HG3	0.42	2.13	29	2
1:B:333:ARG:NE	1:B:334:GLY:N	0.42	2.67	11	1
1:C:351:LYS:HD3	1:D:350:LEU:HD12	0.42	1.91	47	1
1:A:348:LEU:HD12	1:C:341:PHE:CE1	0.42	2.49	72	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:333:ARG:NE	1:A:334:GLY:N	0.42	2.67	11	1
1:A:346:GLU:HB3	1:B:351:LYS:NZ	0.42	2.29	26	1
1:C:333:ARG:HG2	1:C:334:GLY:N	0.42	2.28	74	3
1:B:333:ARG:HD3	1:B:334:GLY:N	0.42	2.29	45	1
1:B:335:ARG:NH1	1:B:335:ARG:HG3	0.42	2.29	59	2
1:A:344:LEU:HD23	1:B:348:LEU:HD21	0.42	1.92	30	1
1:D:350:LEU:CD2	1:D:350:LEU:C	0.42	2.87	47	1
1:B:327:TYR:CZ	1:D:333:ARG:HD2	0.42	2.50	22	1
1:B:348:LEU:HD13	1:D:337:ARG:HH11	0.41	1.68	11	1
1:A:351:LYS:HA	1:B:350:LEU:HD22	0.41	1.92	70	1
1:A:350:LEU:CD2	1:B:351:LYS:HA	0.41	2.45	21	1
1:B:333:ARG:CD	1:B:334:GLY:N	0.41	2.84	45	1
1:A:350:LEU:CD2	1:B:350:LEU:HG	0.41	2.45	50	1
1:C:327:TYR:N	1:C:327:TYR:CD1	0.41	2.89	75	3
1:C:342:ARG:NH1	1:C:342:ARG:HG3	0.41	2.30	63	1
1:B:330:LEU:O	1:D:329:THR:HA	0.41	2.16	9	1
1:A:328:PHE:HB2	1:C:338:PHE:CG	0.41	2.50	30	1
1:C:350:LEU:CD2	1:D:351:LYS:HA	0.41	2.46	29	1
1:D:333:ARG:CD	1:D:334:GLY:N	0.41	2.84	45	1
1:A:328:PHE:O	1:C:331:GLN:HA	0.41	2.16	49	2
1:B:335:ARG:CA	1:D:328:PHE:CE1	0.41	3.03	61	1
1:A:350:LEU:CD1	1:B:354:GLN:NE2	0.41	2.83	43	1
1:A:342:ARG:NH1	1:A:342:ARG:HG3	0.41	2.30	63	1
1:B:348:LEU:HB3	1:D:337:ARG:NH2	0.41	2.30	32	2
1:A:330:LEU:HD11	1:C:342:ARG:HA	0.41	1.92	19	1
1:C:351:LYS:NZ	1:D:346:GLU:HB3	0.41	2.30	26	1
1:B:342:ARG:NH1	1:B:342:ARG:HG3	0.41	2.30	63	1
1:A:331:GLN:HG3	1:C:328:PHE:O	0.41	2.16	69	1
1:A:337:ARG:NH2	1:C:348:LEU:HB3	0.41	2.30	11	1
1:A:350:LEU:HD12	1:B:351:LYS:HD3	0.41	1.91	11	1
1:A:328:PHE:HB2	1:C:338:PHE:CD1	0.41	2.51	17	1
1:A:333:ARG:CG	1:A:333:ARG:HH11	0.41	2.29	51	1
1:C:333:ARG:CG	1:C:333:ARG:HH11	0.41	2.29	51	1
1:B:328:PHE:O	1:D:331:GLN:HG3	0.41	2.16	69	1
1:D:342:ARG:CG	1:D:342:ARG:HH11	0.41	2.29	44	1
1:A:333:ARG:CD	1:A:334:GLY:N	0.41	2.84	45	1
1:D:342:ARG:NH1	1:D:342:ARG:HG3	0.41	2.30	63	1
1:B:333:ARG:CG	1:B:333:ARG:HH11	0.40	2.29	11	1
1:D:333:ARG:CG	1:D:333:ARG:HH11	0.40	2.29	11	1
1:C:333:ARG:CD	1:C:334:GLY:N	0.40	2.84	45	1
1:B:337:ARG:CG	1:B:337:ARG:NH1	0.40	2.82	59	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:348:LEU:CD1	1:D:341:PHE:CZ	0.40	3.03	72	1
1:A:338:PHE:CD1	1:C:328:PHE:HB2	0.40	2.51	17	1
1:A:336:GLU:CG	1:A:337:ARG:N	0.40	2.85	56	1
1:D:327:TYR:N	1:D:327:TYR:CD1	0.40	2.90	69	1
1:A:354:GLN:NE2	1:B:350:LEU:CD1	0.40	2.85	43	1
1:B:336:GLU:CG	1:B:337:ARG:N	0.40	2.85	44	1
1:D:336:GLU:CG	1:D:337:ARG:N	0.40	2.85	44	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	29/42 (69%)	29±0 (99±1%)	0±0 (1±1%)	0±0 (0±0%)	100	100
1	B	29/42 (69%)	29±0 (99±1%)	0±0 (1±1%)	0±0 (0±0%)	100	100
1	C	29/42 (69%)	29±0 (99±1%)	0±0 (1±1%)	0±0 (0±0%)	100	100
1	D	29/42 (69%)	29±0 (99±1%)	0±0 (1±1%)	0±0 (0±0%)	100	100
All	All	8816/12768 (69%)	8758 (99%)	58 (1%)	0 (0%)	100	100

There are no Ramachandran outliers.

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	26/35 (74%)	23±2 (90±6%)	3±2 (10±6%)	11	56
1	B	26/35 (74%)	23±2 (90±6%)	3±2 (10±6%)	11	56
1	C	26/35 (74%)	23±2 (90±6%)	3±2 (10±6%)	11	56

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	D	26/35 (74%)	23±2 (90±6%)	3±2 (10±6%)	11 56
All	All	7904/10640 (74%)	7111 (90%)	793 (10%)	11 56

All 52 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	333	ARG	46
1	B	333	ARG	46
1	C	333	ARG	46
1	D	333	ARG	46
1	A	337	ARG	26
1	B	337	ARG	26
1	C	337	ARG	26
1	D	337	ARG	26
1	B	351	LYS	22
1	D	351	LYS	22
1	A	351	LYS	21
1	C	351	LYS	21
1	A	335	ARG	17
1	B	335	ARG	17
1	C	335	ARG	17
1	D	335	ARG	17
1	A	354	GLN	16
1	B	354	GLN	16
1	C	354	GLN	16
1	D	354	GLN	16
1	A	346	GLU	16
1	B	346	GLU	16
1	C	346	GLU	16
1	D	346	GLU	16
1	A	331	GLN	13
1	C	331	GLN	13
1	D	331	GLN	13
1	B	331	GLN	12
1	A	342	ARG	12
1	B	342	ARG	12
1	C	342	ARG	12
1	D	342	ARG	12
1	A	352	ASP	11
1	B	352	ASP	11
1	C	352	ASP	11

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Mol	Chain	Res	Type	Models (Total)
1	D	352	ASP	11
1	A	336	GLU	9
1	B	336	GLU	9
1	C	336	GLU	9
1	D	336	GLU	9
1	A	343	GLU	8
1	B	343	GLU	8
1	C	343	GLU	8
1	D	343	GLU	8
1	A	350	LEU	2
1	B	350	LEU	2
1	C	350	LEU	2
1	D	350	LEU	2
1	A	326	GLU	1
1	B	326	GLU	1
1	C	326	GLU	1
1	D	326	GLU	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 ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided