

Integrative Structure Validation Report

July 22, 2024 - 05:31 PM PDT

The following software was used in the production of this report:

Python-IHM Version 1.3

MolProbity Version 4.5.2

Integrative Modeling Validation Version 1.2

PDB ID	9A42
PDB-Dev ID	PDBDEV_00000223
Structure Title	F1N6 fully-glycosylated model of mouse N-cadherin EC4-EC5
Structure Authors	Tsai, Y.-X.; Chang, H.-T.; Wang, Y.-S.; Hsu, M.-F.; Hanus, C.; Sikora, M.; Hsu, S.-T.D.

This is a PDB-Dev IM Structure Validation Report for a publicly released PDB-Dev entry.

We welcome your comments at pdb-dev@mail.wwpdb.org

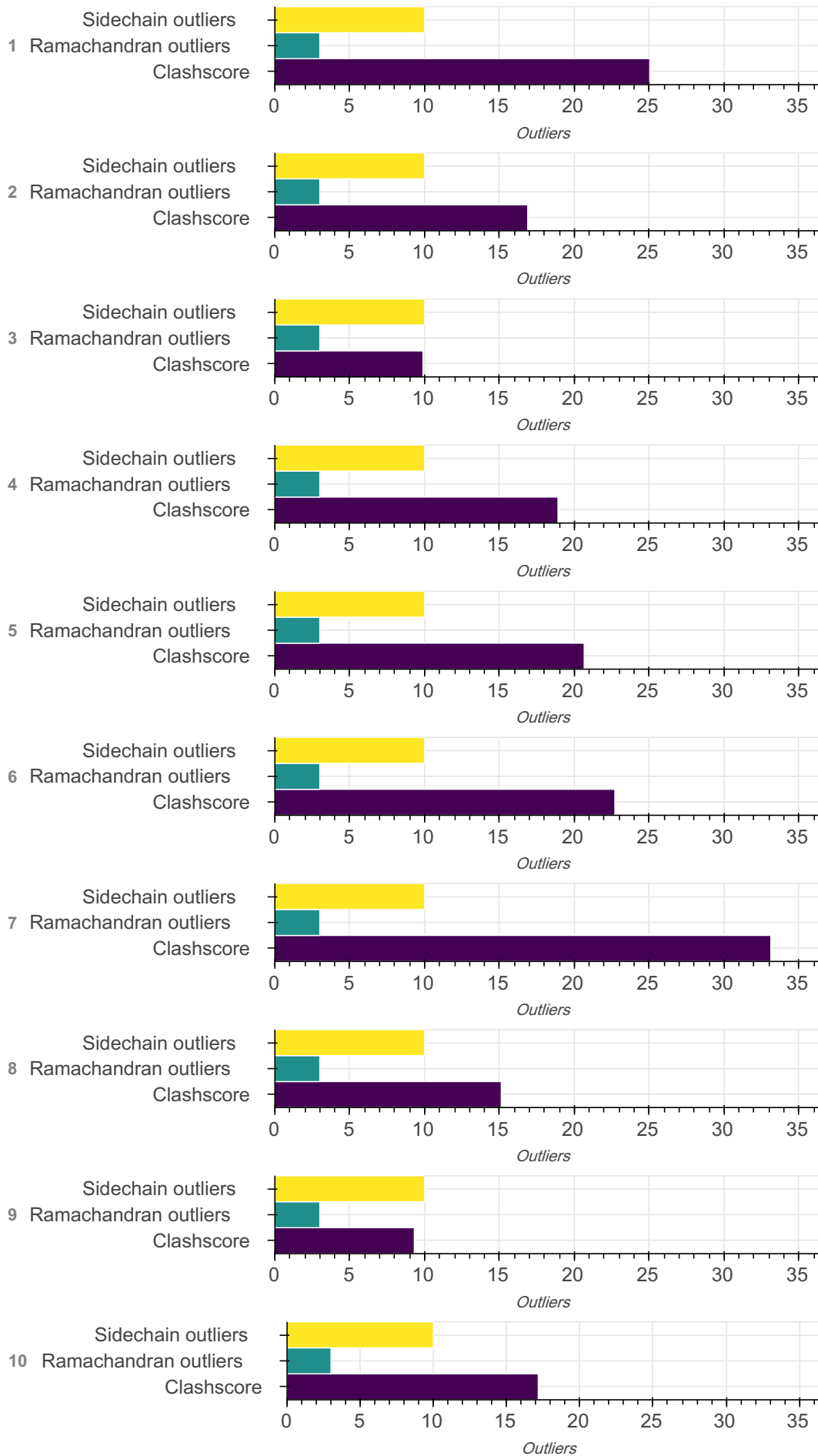
A user guide is available at https://pdb-dev.wwpdb.org/validation_help.html with specific help available everywhere you see the  symbol.

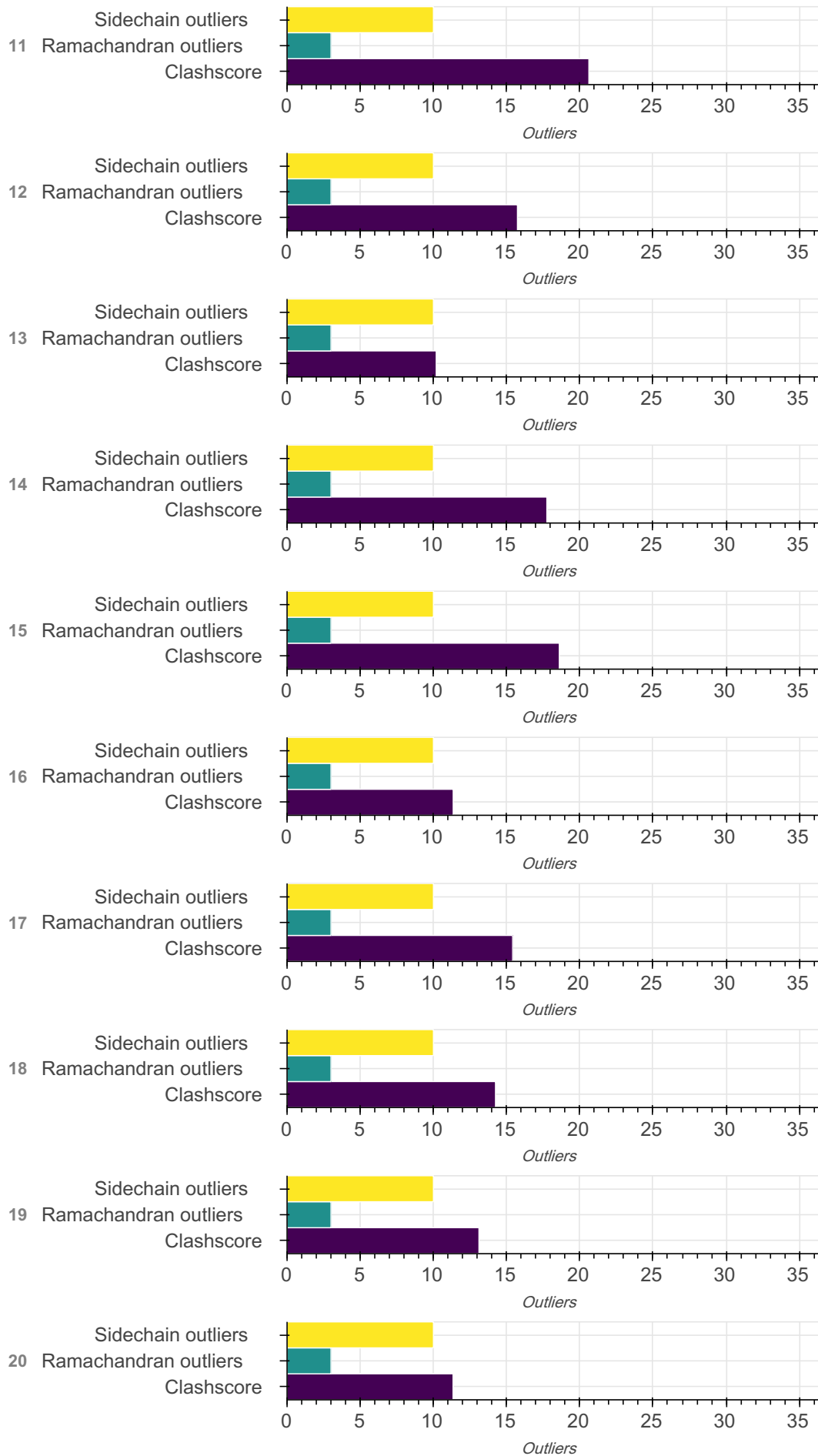
List of references used to build this report is available [here](#).

Overall quality

This validation report contains model quality assessments for all structures, data quality assessment for SAS datasets and fit to model assessments for SAS datasets. Data quality and fit to model assessments for other datasets and model uncertainty are under development. Number of plots is limited to 256.

Model Quality: MolProbity Analysis





Ensemble information ?

This entry consists of 1 distinct ensemble(s).

Summary ?

This entry consists of 20 unique models, with 5 subunits in each model. A total of 2 datasets or restraints were used to build this entry. Each model is represented by 0 rigid bodies and 5 flexible or non-rigid units.

Entry composition ?

There are 20 unique types of models in this entry. These models are titled None, None, None, None, None, None, None, None, None, None, None, None, None, None, None, None, None, None, None, None respectively.

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	1	1	Cadherin-2	A	A	211
1	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
1	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
1	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
2	1	1	Cadherin-2	A	A	211
2	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
2	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
2	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
3	1	1	Cadherin-2	A	A	211
3	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
3	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
3	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
4	1	1	Cadherin-2	A	A	211
4	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
4	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
4	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
5	1	1	Cadherin-2	A	A	211
5	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
5	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
5	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
6	1	1	Cadherin-2	A	A	211
6	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
6	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
6	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
7	1	1	Cadherin-2	A	A	211
7	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
7	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
7	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
8	1	1	Cadherin-2	A	A	211
8	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
8	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
8	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
9	1	1	Cadherin-2	A	A	211
9	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
9	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
9	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
10	1	1	Cadherin-2	A	A	211
10	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
10	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
10	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
11	1	1	Cadherin-2	A	A	211
11	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
11	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
11	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
12	1	1	Cadherin-2	A	A	211
12	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
12	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
12	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
13	1	1	Cadherin-2	A	A	211
13	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
13	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
13	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
14	1	1	Cadherin-2	A	A	211
14	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
14	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
14	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
15	1	1	Cadherin-2	A	A	211
15	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
15	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
15	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
16	1	1	Cadherin-2	A	A	211
16	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
16	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
16	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
17	1	1	Cadherin-2	A	A	211
17	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
17	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
17	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
18	1	1	Cadherin-2	A	A	211
18	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
18	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
18	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
19	1	1	Cadherin-2	A	A	211
19	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
19	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
19	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18
20	1	1	Cadherin-2	A	A	211
20	2	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	B	B	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	3	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	C	C	18
20	4	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	D	D	18

Model ID	Subunit number	Subunit ID	Subunit name	Chain ID	Chain ID [auth]	Total residues
20	5	2	N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)]alpha-D-mannopyranose-(1-3)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-2)-[N-acetyl-alpha-neuraminic acid-(2-3)-beta-D-galactopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-6)]alpha-D-mannopyranose-(1-6)]beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-[alpha-L-fucopyranose-(1-6)]2-acetamido-2-deoxy-beta-D-glucopyranose	E	E	18

Datasets used for modeling

There are 2 unique datasets used to build the models in this entry.

ID	Dataset type	Database name	Data access code
1	SAS data	SASBDB	SASDT45
2	Other	PDB	3Q2W

Representation

This entry has only one representation and includes 0 rigid bodies and 5 flexible units

Chain ID	Rigid bodies	Non-rigid segments
A	-	1-211
B	-	1-18
C	-	1-18

Chain ID	Rigid bodies	Non-rigid segments
D	-	1-18
E	-	1-18

Methodology and software

This entry is a result of 1 distinct protocol(s).

Step number	Protocol ID	Method name	Method type	Method description	Number of computed models	Multi state modeling	Multi scale modeling
1	1	Use GlycoSHIELD, the tool we have developed, to graft MD-simulated glycan ensemble onto the ectodomains 4 to 5 of x-ray protein structure (PDB ID: 3Q2W).	None	None	20	False	False

There are 3 software packages reported in this entry.

ID	Software name	Software version	Software classification	Software location
1	GlycoSHIELD	Not available	model building	https://github.com/GlycoSHIELD-MD/GlycoSHIELD-MD
2	GASBOR	Not available	model building	https://www.embl-hamburg.de/biosaxs/gasbor.html
3	FoXSDock	Not available	data analysis	https://modbase.compbio.ucsf.edu/foxsdock/

Data quality

SAS:Scattering profile

SAS data used in this integrative model could not be validated as the sascif file is currently unavailable.

Model quality ?

For models with atomic structures, molprobtity analysis is performed. For models with coarse-grained or multi-scale structures, excluded volume analysis is performed.

Standard geometry: bond outliers ?

Bond length outliers can not be evaluated for this model

Standard geometry: angle outliers ?

There are 99 angle outliers in this entry. A summary is provided below, and a detailed list of outliers can be found [here](#).

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
N-CA-CB	110.50	90.63	20
N-CA-C	111.00	133.93	20
C1-C2-O2	106.80	123.64	1
C1-C2-O2	106.80	123.51	1
C1-C2-O2	106.80	123.21	1
C3-C4-O4	107.06	122.59	1
C3-C4-O4	107.06	122.49	1
C3-C4-O4	107.06	122.38	1
C2-C3-O3	106.67	121.63	1
C3-C4-O4	107.06	121.88	1
C2-C3-O3	106.67	121.40	1
C3-C4-O4	107.06	121.77	1
C3-C4-O4	107.29	121.98	1
C2-C3-O3	106.67	121.33	1
C3-C4-O4	107.06	121.57	1
C3-C4-O4	107.06	121.32	1
C2-C3-O3	106.67	120.91	1
C3-C4-O4	111.75	98.20	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C3-C4-O4	111.75	98.22	1
C3-C4-O4	111.75	98.27	1
C1-C2-O2	106.80	120.25	1
C3-C4-O4	107.29	120.72	1
C4-C3-O3	113.26	99.84	1
C5-C4-O4	106.87	120.29	1
C3-C4-O4	107.29	120.68	1
C3-C4-O4	111.75	98.44	1
C1-C2-O2	106.80	120.10	1
C1-C2-O2	108.24	121.53	1
C5-C4-O4	106.87	120.03	1
C1-C2-O2	108.24	121.31	1
C7-C6-O6	103.71	116.77	1
C7-C6-O6	103.71	116.64	1
C3-C2-O2	111.77	124.67	1
C7-C6-O6	103.71	116.60	1
C7-C6-O6	103.71	116.57	1
C7-C6-O6	103.71	116.48	1
C3-C4-O4	108.61	121.35	1
C3-C4-O4	111.75	99.11	1
C4-C5-O5	113.24	100.67	1
C3-C4-O4	108.61	121.13	1
C1-C2-O6	109.00	121.47	1

Angle type	Observed angle (°)	Ideal angle (°)	Number of outliers
C1-C2-O2	108.40	120.87	1
C3-C4-O4	107.29	119.71	1
C7-C8-O8	110.06	122.46	1
C4-C5-O5	113.24	100.86	1
C7-C8-O8	110.06	122.43	1
C2-C3-O3	107.49	119.86	1
C5-C4-O4	106.87	119.20	1
C1-C2-O6	109.00	121.30	1
C2-C3-O3	107.49	119.76	1
C4-C5-C6	113.05	100.83	1
C1-C2-C3	108.75	120.96	1
C5-C4-O4	106.87	119.07	1
C1-C2-C3	108.75	120.92	1
C7-C8-O8	110.06	122.19	1
C8-C9-O9	109.54	121.64	1
C4-C3-O3	113.26	101.16	1
C7-C8-O8	110.06	122.10	1
C1-C2-O2	108.08	120.12	1
C1-C2-O6	109.00	121.03	1
C7-C6-O6	103.71	115.71	1

Too-close contacts

The following all-atom clashscore is based on a MolProbity analysis. All-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The table below contains clashscores for all the models in this entry.

Model ID	Clash score	Number of clashes
1	25.04	86
2	16.89	58
3	9.89	34
4	18.91	65
5	20.66	71
6	22.71	78
7	33.13	114
8	15.12	52
9	9.31	32
10	17.16	59
11	20.62	71
12	15.74	54
13	10.19	35
14	17.75	61
15	18.60	64
16	11.35	39
17	15.41	53
18	14.24	49
19	13.11	45
20	11.34	39

All 1159 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:158:THR:CB	C:1:NAG:H4	1.588

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:158:THR:CG2	C:2:NAG:C1	1.558
1	A:158:THR:HB	C:1:NAG:C4	1.381
1	A:158:THR:HG21	C:2:NAG:C1	1.338
1	A:156:PRO:HB2	C:18:FUC:O3	1.209
1	A:126:THR:OG1	B:8:NAG:CT	1.152
1	A:199:PRO:O	E:1:NAG:O	1.152
1	A:156:PRO:HB2	C:18:FUC:C3	1.127
1	A:158:THR:CG2	C:1:NAG:H4	1.112
1	A:158:THR:OG1	C:18:FUC:C3	1.097
1	A:158:THR:CG2	C:2:NAG:O5	1.052
1	A:133:ASN:HD21	B:1:NAG:CT	0.922
1	A:22:HIS:NE2	E:17:SIA:O4	0.906
1	A:158:THR:CB	C:1:NAG:C4	0.896
1	A:158:THR:HG22	C:2:NAG:O5	0.889
1	A:158:THR:HG21	C:2:NAG:O5	0.887
1	A:156:PRO:CB	C:18:FUC:O3	0.868
1	A:161:ARG:NH1	C:2:NAG:O6	0.847
1	A:171:ASP:OD2	A:172:PHE:HD2	0.833
1	A:22:HIS:CD2	E:17:SIA:HO4	0.826
1	A:158:THR:CG2	C:1:NAG:C4	0.807
1	A:158:THR:H	C:18:FUC:C3	0.784
1	A:161:ARG:HG2	C:1:NAG:C	0.777
1	A:158:THR:CB	C:18:FUC:C3	0.774

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:133:ASN:ND2	B:1:NAG:C	0.769
1	A:169:ASN:H	A:169:ASN:HD22	0.765
1	A:169:ASN:HD21	A:172:PHE:HB2	0.763
1	A:156:PRO:HB2	C:18:FUC:C2	0.760
1	A:171:ASP:OD2	A:172:PHE:CD2	0.756
1	A:158:THR:HG21	C:1:NAG:O4	0.753
1	A:133:ASN:ND2	B:1:NAG:CT	0.736
1	A:158:THR:CG2	C:2:NAG:C5	0.705
1	A:168:LEU:HB2	A:172:PHE:O	0.691
1	A:158:THR:HB	C:1:NAG:H4	0.679
1	A:169:ASN:N	A:169:ASN:ND2	0.674
1	A:169:ASN:H	A:169:ASN:ND2	0.671
1	A:199:PRO:C	E:1:NAG:O	0.670
1	A:156:PRO:C	C:18:FUC:O3	0.663
1	A:158:THR:N	C:18:FUC:C3	0.652
1	A:161:ARG:HH12	C:2:NAG:HO6	0.650
1	A:156:PRO:CB	C:18:FUC:C3	0.641
1	A:133:ASN:ND2	B:1:NAG:N	0.633
1	A:158:THR:HG21	C:1:NAG:C4	0.629
1	A:130:ASN:O	B:1:NAG:O	0.627
1	A:158:THR:HB	C:1:NAG:C5	0.626
1	A:11:ASN:HB3	A:12:PRO:HD3	0.610
1	A:156:PRO:O	C:18:FUC:H4	0.609

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:156:PRO:O	C:18:FUC:O4	0.598
1	A:156:PRO:O	C:18:FUC:C4	0.595
1	A:79:ASN:HD22	A:80:ASN:H	0.592
1	A:117:LEU:HB3	A:118:PRO:HD3	0.591
1	A:161:ARG:HB3	C:1:NAG:O	0.591
1	A:156:PRO:CB	C:18:FUC:H2	0.586
1	A:156:PRO:CG	C:18:FUC:H2	0.582
1	A:156:PRO:HB2	C:18:FUC:H2	0.574
1	A:161:ARG:HG2	C:1:NAG:CT	0.561
1	A:61:ASN:HB3	A:63:GLN:HG3	0.560
1	A:156:PRO:C	C:18:FUC:O4	0.554
1	A:126:THR:HG1	B:8:NAG:CT	0.550
1	A:157:VAL:N	C:18:FUC:O3	0.548
1	A:158:THR:HG22	A:161:ARG:NH2	0.547
1	A:22:HIS:NE2	E:17:SIA:C4	0.547
1	A:29:THR:HG22	A:63:GLN:HG2	0.536
1	A:158:THR:HG22	C:2:NAG:C5	0.524
1	A:79:ASN:HB2	D:1:NAG:O3	0.515
1	A:22:HIS:CD2	E:17:SIA:O4	0.510
1	A:199:PRO:HB2	E:1:NAG:O	0.507
1	A:158:THR:CG2	C:2:NAG:H5	0.503
1	A:158:THR:HB	C:1:NAG:C3	0.503
1	A:169:ASN:N	A:169:ASN:HD22	0.499

Model ID	Atom-1	Atom-2	Clash overlap (Å)
1	A:156:PRO:C	C:18:FUC:C4	0.480
1	A:93:ILE:HB	A:94:PRO:HD3	0.477
1	D:17:SIA:H6	D:17:SIA:O12	0.464
1	A:198:PRO:HA	A:199:PRO:HD3	0.457
1	A:158:THR:CA	C:18:FUC:C3	0.452
1	A:11:ASN:CB	A:12:PRO:HD3	0.441
1	A:155:SER:HA	A:156:PRO:C	0.435
1	A:56:LYS:HD2	A:67:ILE:HD11	0.433
1	A:197:ASN:HA	A:198:PRO:C	0.427
1	A:48:LEU:HD12	A:87:LEU:HG	0.421
1	A:158:THR:HB	C:1:NAG:C2	0.418
1	A:161:ARG:CB	C:1:NAG:O	0.416
1	A:93:ILE:O	A:95:PRO:HD3	0.411
1	A:198:PRO:HB3	E:2:NAG:O6	0.405
1	A:158:THR:OG1	C:18:FUC:C4	0.405
1	A:156:PRO:CA	C:18:FUC:O3	0.405
2	A:133:ASN:ND2	B:1:NAG:C1	1.510
2	A:75:PRO:CB	D:8:NAG:CT	1.286
2	A:79:ASN:O	D:1:NAG:CT	1.281
2	A:131:SER:O	B:1:NAG:CT	1.237
2	A:75:PRO:HB3	D:8:NAG:CT	1.180
2	A:75:PRO:CG	D:8:NAG:CT	1.179
2	A:79:ASN:C	D:1:NAG:CT	1.089

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:158:THR:HA	C:1:NAG:CT	0.988
2	A:78:LYS:NZ	D:2:NAG:H62	0.908
2	A:75:PRO:HG2	D:8:NAG:CT	0.874
2	A:171:ASP:OD2	A:172:PHE:HD2	0.833
2	A:78:LYS:NZ	D:2:NAG:C6	0.810
2	A:131:SER:C	B:1:NAG:CT	0.787
2	A:161:ARG:HB3	C:1:NAG:CT	0.765
2	A:169:ASN:H	A:169:ASN:HD22	0.765
2	A:169:ASN:HD21	A:172:PHE:HB2	0.763
2	A:171:ASP:OD2	A:172:PHE:CD2	0.756
2	A:125:GLU:OE2	C:18:FUC:C6	0.706
2	A:79:ASN:CA	D:1:NAG:CT	0.696
2	A:168:LEU:HB2	A:172:PHE:O	0.691
2	A:169:ASN:N	A:169:ASN:ND2	0.674
2	A:169:ASN:H	A:169:ASN:ND2	0.671
2	A:79:ASN:H	D:1:NAG:C	0.661
2	A:78:LYS:NZ	D:2:NAG:O6	0.614
2	A:11:ASN:HB3	A:12:PRO:HD3	0.610
2	A:125:GLU:OE2	C:18:FUC:H62	0.610
2	A:75:PRO:HG3	D:8:NAG:CT	0.599
2	A:79:ASN:HD22	A:80:ASN:H	0.592
2	A:117:LEU:HB3	A:118:PRO:HD3	0.591
2	A:61:ASN:HB3	A:63:GLN:HG3	0.560

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	A:75:PRO:HB2	D:8:NAG:CT	0.557
2	A:158:THR:HG22	A:161:ARG:NH2	0.547
2	A:158:THR:HB	C:1:NAG:O	0.539
2	A:29:THR:HG22	A:63:GLN:HG2	0.536
2	A:78:LYS:HB3	D:1:NAG:O3	0.526
2	A:182:GLU:N	C:18:FUC:O4	0.524
2	A:78:LYS:N	D:1:NAG:O	0.516
2	A:161:ARG:CB	C:1:NAG:CT	0.502
2	A:79:ASN:N	D:1:NAG:C	0.500
2	A:169:ASN:N	A:169:ASN:HD22	0.499
2	A:93:ILE:HB	A:94:PRO:HD3	0.477
2	A:79:ASN:HB3	D:1:NAG:CT	0.475
2	A:125:GLU:OE2	C:18:FUC:H63	0.466
2	A:79:ASN:CB	D:1:NAG:CT	0.462
2	A:78:LYS:CB	D:1:NAG:O3	0.458
2	A:79:ASN:N	D:1:NAG:CT	0.458
2	A:198:PRO:HA	A:199:PRO:HD3	0.457
2	E:17:SIA:H6	E:17:SIA:O12	0.445
2	A:11:ASN:CB	A:12:PRO:HD3	0.441
2	B:17:SIA:H6	B:17:SIA:O12	0.437
2	A:155:SER:HA	A:156:PRO:C	0.435
2	A:56:LYS:HD2	A:67:ILE:HD11	0.433
2	A:197:ASN:HA	A:198:PRO:C	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
2	C:17:SIA:H6	C:17:SIA:O12	0.427
2	A:48:LEU:HD12	A:87:LEU:HG	0.421
2	A:133:ASN:ND2	B:1:NAG:C2	0.420
2	A:93:ILE:O	A:95:PRO:HD3	0.411
2	A:158:THR:CB	C:1:NAG:O	0.406
3	A:130:ASN:ND2	B:1:NAG:CT	1.403
3	A:130:ASN:CG	B:1:NAG:CT	1.188
3	A:130:ASN:HD22	B:1:NAG:CT	0.922
3	A:158:THR:HA	C:1:NAG:O	0.918
3	A:171:ASP:OD2	A:172:PHE:HD2	0.833
3	A:169:ASN:H	A:169:ASN:HD22	0.765
3	A:169:ASN:HD21	A:172:PHE:HB2	0.763
3	A:199:PRO:HD2	E:1:NAG:O3	0.757
3	A:171:ASP:OD2	A:172:PHE:CD2	0.756
3	A:158:THR:CA	C:1:NAG:O	0.747
3	A:168:LEU:HB2	A:172:PHE:O	0.691
3	A:158:THR:CB	C:1:NAG:O	0.678
3	A:169:ASN:N	A:169:ASN:ND2	0.674
3	A:169:ASN:H	A:169:ASN:ND2	0.671
3	A:158:THR:HG22	C:1:NAG:O	0.623
3	A:11:ASN:HB3	A:12:PRO:HD3	0.610
3	A:79:ASN:HD22	A:80:ASN:H	0.592
3	A:117:LEU:HB3	A:118:PRO:HD3	0.591

Model ID	Atom-1	Atom-2	Clash overlap (Å)
3	A:199:PRO:O	E:1:NAG:C2	0.584
3	A:61:ASN:HB3	A:63:GLN:HG3	0.560
3	A:158:THR:HG22	A:161:ARG:NH2	0.547
3	A:29:THR:HG22	A:63:GLN:HG2	0.536
3	A:133:ASN:HD22	B:1:NAG:C1	0.528
3	A:158:THR:CG2	C:1:NAG:O	0.507
3	A:169:ASN:N	A:169:ASN:HD22	0.499
3	A:93:ILE:HB	A:94:PRO:HD3	0.477
3	A:198:PRO:HA	A:199:PRO:HD3	0.457
3	A:11:ASN:CB	A:12:PRO:HD3	0.441
3	A:155:SER:HA	A:156:PRO:C	0.435
3	A:56:LYS:HD2	A:67:ILE:HD11	0.433
3	A:197:ASN:HA	A:198:PRO:C	0.427
3	A:48:LEU:HD12	A:87:LEU:HG	0.421
3	A:93:ILE:O	A:95:PRO:HD3	0.411
3	A:130:ASN:O	B:1:NAG:N	0.411
4	A:199:PRO:HD2	E:1:NAG:CT	1.534
4	A:199:PRO:CD	E:1:NAG:CT	1.482
4	A:158:THR:CG2	C:18:FUC:H4	1.441
4	A:133:ASN:HD22	B:1:NAG:C1	1.346
4	A:158:THR:HG21	C:18:FUC:C4	1.257
4	A:199:PRO:O	E:1:NAG:CT	1.156
4	A:131:SER:HA	B:1:NAG:CT	1.130

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:161:ARG:HD2	C:1:NAG:O3	1.121
4	A:161:ARG:HH22	C:18:FUC:H3	1.090
4	A:133:ASN:ND2	B:1:NAG:C1	1.087
4	A:199:PRO:O	E:1:NAG:C	0.997
4	A:199:PRO:N	E:1:NAG:CT	0.988
4	A:161:ARG:CZ	C:1:NAG:H4	0.966
4	A:161:ARG:HG2	C:1:NAG:C2	0.946
4	A:131:SER:CA	B:1:NAG:CT	0.943
4	A:161:ARG:NH2	C:18:FUC:H3	0.933
4	A:158:THR:CG2	C:18:FUC:C4	0.907
4	A:199:PRO:CG	E:1:NAG:CT	0.895
4	A:199:PRO:CA	E:1:NAG:CT	0.877
4	A:158:THR:HG21	C:18:FUC:H4	0.835
4	A:161:ARG:CD	C:1:NAG:C2	0.835
4	A:171:ASP:OD2	A:172:PHE:HD2	0.833
4	A:199:PRO:C	E:1:NAG:CT	0.826
4	A:158:THR:HG22	C:18:FUC:H4	0.820
4	A:161:ARG:NE	C:1:NAG:C2	0.816
4	A:199:PRO:CB	E:1:NAG:CT	0.814
4	A:161:ARG:CG	C:1:NAG:C2	0.799
4	A:161:ARG:CD	C:1:NAG:O3	0.795
4	A:169:ASN:H	A:169:ASN:HD22	0.765
4	A:169:ASN:HD21	A:172:PHE:HB2	0.763

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:171:ASP:OD2	A:172:PHE:CD2	0.756
4	A:161:ARG:HH22	C:18:FUC:C3	0.755
4	A:158:THR:HG21	C:18:FUC:C5	0.717
4	A:168:LEU:HB2	A:172:PHE:O	0.691
4	A:169:ASN:N	A:169:ASN:ND2	0.674
4	A:169:ASN:H	A:169:ASN:ND2	0.671
4	A:161:ARG:HE	C:1:NAG:C2	0.642
4	A:11:ASN:HB3	A:12:PRO:HD3	0.610
4	A:161:ARG:NE	C:1:NAG:H4	0.606
4	A:161:ARG:NH2	C:1:NAG:H4	0.606
4	A:79:ASN:HD22	A:80:ASN:H	0.592
4	A:117:LEU:HB3	A:118:PRO:HD3	0.591
4	A:61:ASN:HB3	A:63:GLN:HG3	0.560
4	A:158:THR:HG22	A:161:ARG:NH2	0.547
4	A:131:SER:C	B:1:NAG:CT	0.540
4	A:158:THR:CG2	C:18:FUC:C5	0.539
4	A:29:THR:HG22	A:63:GLN:HG2	0.536
4	A:161:ARG:NE	C:1:NAG:C3	0.525
4	A:161:ARG:NH2	C:1:NAG:O6	0.523
4	A:161:ARG:HD2	C:1:NAG:C3	0.508
4	A:169:ASN:N	A:169:ASN:HD22	0.499
4	A:161:ARG:CD	C:1:NAG:C3	0.488
4	A:93:ILE:HB	A:94:PRO:HD3	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
4	A:161:ARG:HD2	C:1:NAG:HO3	0.474
4	A:158:THR:HG22	C:18:FUC:C4	0.467
4	A:198:PRO:HA	A:199:PRO:HD3	0.457
4	A:11:ASN:CB	A:12:PRO:HD3	0.441
4	A:161:ARG:NE	C:1:NAG:C4	0.437
4	A:199:PRO:HB2	E:1:NAG:CT	0.436
4	A:155:SER:HA	A:156:PRO:C	0.435
4	A:56:LYS:HD2	A:67:ILE:HD11	0.433
4	A:197:ASN:HA	A:198:PRO:C	0.427
4	A:48:LEU:HD12	A:87:LEU:HG	0.421
4	A:131:SER:O	B:1:NAG:C	0.419
4	A:93:ILE:O	A:95:PRO:HD3	0.411
5	A:181:PHE:CB	C:18:FUC:H61	1.588
5	A:174:GLN:NE2	B:1:NAG:CT	1.344
5	A:199:PRO:HG2	E:1:NAG:O3	1.297
5	A:181:PHE:CB	C:18:FUC:C6	1.295
5	A:199:PRO:CG	E:1:NAG:O3	1.114
5	A:130:ASN:HB3	B:1:NAG:O3	1.024
5	A:197:ASN:ND2	E:4:MAN:C6	1.009
5	A:125:GLU:OE2	C:18:FUC:H62	0.992
5	A:197:ASN:O	E:8:NAG:CT	0.980
5	A:174:GLN:HE21	B:1:NAG:CT	0.920
5	A:199:PRO:HG2	E:1:NAG:HO3	0.915

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:128:GLU:HG2	B:2:NAG:O6	0.873
5	A:199:PRO:HG3	E:2:NAG:O6	0.849
5	A:197:ASN:ND2	E:4:MAN:H62	0.839
5	A:130:ASN:CB	B:1:NAG:O3	0.838
5	A:171:ASP:OD2	A:172:PHE:HD2	0.833
5	A:101:THR:OG1	D:18:FUC:H62	0.822
5	A:197:ASN:C	E:8:NAG:CT	0.811
5	A:199:PRO:CG	E:2:NAG:O6	0.802
5	A:130:ASN:HB3	B:1:NAG:C3	0.776
5	A:169:ASN:H	A:169:ASN:HD22	0.765
5	A:169:ASN:HD21	A:172:PHE:HB2	0.763
5	A:171:ASP:OD2	A:172:PHE:CD2	0.756
5	A:197:ASN:CG	E:4:MAN:H62	0.734
5	A:101:THR:OG1	D:18:FUC:C6	0.712
5	A:128:GLU:HB2	B:8:NAG:CT	0.701
5	A:168:LEU:HB2	A:172:PHE:O	0.691
5	A:169:ASN:N	A:169:ASN:ND2	0.674
5	A:197:ASN:ND2	E:4:MAN:H61	0.671
5	A:169:ASN:H	A:169:ASN:ND2	0.671
5	A:130:ASN:HA	B:1:NAG:CT	0.655
5	A:197:ASN:HD21	E:4:MAN:H61	0.655
5	A:182:GLU:HG3	C:18:FUC:O4	0.652
5	A:181:PHE:CA	C:18:FUC:H61	0.652

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:174:GLN:HB2	B:1:NAG:CT	0.651
5	A:11:ASN:HB3	A:12:PRO:HD3	0.610
5	A:83:ASN:CG	D:1:NAG:C1	0.597
5	A:79:ASN:HD22	A:80:ASN:H	0.592
5	A:117:LEU:HB3	A:118:PRO:HD3	0.591
5	A:129:PRO:CD	B:4:MAN:O6	0.583
5	A:128:GLU:OE2	B:2:NAG:H5	0.580
5	A:197:ASN:HD21	E:4:MAN:C6	0.579
5	A:61:ASN:HB3	A:63:GLN:HG3	0.560
5	A:130:ASN:CB	B:1:NAG:C3	0.560
5	A:174:GLN:HE22	B:1:NAG:CT	0.559
5	A:158:THR:HG22	A:161:ARG:NH2	0.547
5	A:29:THR:HG22	A:63:GLN:HG2	0.536
5	A:174:GLN:CD	B:1:NAG:CT	0.532
5	A:181:PHE:CB	C:18:FUC:C5	0.511
5	A:130:ASN:OD1	B:1:NAG:H3	0.507
5	A:101:THR:HG21	D:18:FUC:C6	0.501
5	A:169:ASN:N	A:169:ASN:HD22	0.499
5	A:101:THR:HG21	D:18:FUC:H61	0.498
5	A:129:PRO:HD2	B:4:MAN:O6	0.490
5	A:199:PRO:CB	E:1:NAG:O3	0.484
5	A:93:ILE:HB	A:94:PRO:HD3	0.477
5	A:199:PRO:HB2	E:1:NAG:C2	0.468

Model ID	Atom-1	Atom-2	Clash overlap (Å)
5	A:129:PRO:HD3	B:4:MAN:O6	0.467
5	A:83:ASN:OD1	D:1:NAG:C1	0.462
5	A:198:PRO:HA	A:199:PRO:HD3	0.457
5	A:174:GLN:CB	B:1:NAG:CT	0.457
5	A:197:ASN:ND2	E:4:MAN:O6	0.451
5	A:11:ASN:CB	A:12:PRO:HD3	0.441
5	A:155:SER:HA	A:156:PRO:C	0.435
5	A:56:LYS:HD2	A:67:ILE:HD11	0.433
5	A:197:ASN:HA	A:198:PRO:C	0.427
5	A:181:PHE:C	C:18:FUC:H61	0.427
5	A:48:LEU:HD12	A:87:LEU:HG	0.421
5	A:93:ILE:O	A:95:PRO:HD3	0.411
5	A:199:PRO:HG2	E:2:NAG:O6	0.407
5	E:9:GAL:H4	E:10:SIA:C1	0.400
6	A:158:THR:HA	C:1:NAG:CT	1.581
6	A:158:THR:CA	C:1:NAG:CT	1.571
6	A:158:THR:CB	C:1:NAG:CT	1.469
6	A:161:ARG:HH21	C:1:NAG:C	1.419
6	A:167:ARG:O	E:14:SIA:C	1.323
6	A:158:THR:CG2	C:1:NAG:CT	1.172
6	A:167:ARG:H	E:14:SIA:C7	1.168
6	A:167:ARG:HB3	E:14:SIA:O7	1.164
6	A:161:ARG:NH2	C:1:NAG:CT	1.160

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:167:ARG:O	E:14:SIA:O	1.153
6	A:161:ARG:NH2	C:1:NAG:C	1.133
6	A:167:ARG:H	E:14:SIA:H7	1.114
6	A:158:THR:HG22	C:1:NAG:CT	1.109
6	A:167:ARG:N	E:14:SIA:H7	1.099
6	A:158:THR:HB	C:1:NAG:CT	1.052
6	A:167:ARG:O	E:14:SIA:CT	1.016
6	A:167:ARG:H	E:14:SIA:C8	0.933
6	A:161:ARG:CZ	C:1:NAG:CT	0.906
6	A:172:PHE:CB	B:18:FUC:O5	0.903
6	A:168:LEU:HD23	B:1:NAG:H62	0.884
6	A:167:ARG:HB3	E:14:SIA:C7	0.882
6	A:182:GLU:CD	C:15:NAG:O6	0.860
6	A:172:PHE:CG	B:18:FUC:O5	0.851
6	A:171:ASP:OD2	A:172:PHE:HD2	0.833
6	A:168:LEU:CD2	B:1:NAG:H62	0.814
6	A:158:THR:HB	C:1:NAG:N	0.806
6	A:167:ARG:N	E:14:SIA:C8	0.806
6	A:181:PHE:C	C:18:FUC:H63	0.783
6	A:181:PHE:CB	C:18:FUC:O4	0.769
6	A:169:ASN:H	A:169:ASN:HD22	0.765
6	A:169:ASN:HD21	A:172:PHE:HB2	0.763
6	A:158:THR:HB	C:1:NAG:C	0.761

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:171:ASP:OD2	A:172:PHE:CD2	0.756
6	A:181:PHE:O	C:18:FUC:H63	0.743
6	A:182:GLU:CD	C:15:NAG:HO6	0.735
6	A:133:ASN:ND2	B:1:NAG:C1	0.734
6	A:172:PHE:HB3	B:18:FUC:O5	0.695
6	A:168:LEU:HD23	B:1:NAG:C6	0.693
6	A:168:LEU:HB2	A:172:PHE:O	0.691
6	A:167:ARG:N	E:14:SIA:C7	0.676
6	A:169:ASN:N	A:169:ASN:ND2	0.674
6	A:169:ASN:H	A:169:ASN:ND2	0.671
6	A:167:ARG:CA	E:14:SIA:H7	0.669
6	A:181:PHE:CB	C:18:FUC:O5	0.631
6	A:11:ASN:HB3	A:12:PRO:HD3	0.610
6	A:167:ARG:C	E:14:SIA:CT	0.596
6	A:79:ASN:HD22	A:80:ASN:H	0.592
6	A:117:LEU:HB3	A:118:PRO:HD3	0.591
6	A:125:GLU:OE2	C:18:FUC:C6	0.588
6	A:182:GLU:OE1	C:15:NAG:O6	0.567
6	A:125:GLU:OE2	C:18:FUC:H62	0.562
6	A:61:ASN:HB3	A:63:GLN:HG3	0.560
6	A:167:ARG:H	E:14:SIA:H8	0.560
6	A:83:ASN:ND2	D:1:NAG:C1	0.558
6	A:158:THR:HG22	A:161:ARG:NH2	0.547

Model ID	Atom-1	Atom-2	Clash overlap (Å)
6	A:29:THR:HG22	A:63:GLN:HG2	0.536
6	A:168:LEU:O	E:14:SIA:CT	0.534
6	A:167:ARG:HB3	E:14:SIA:H7	0.524
6	A:169:ASN:N	A:169:ASN:HD22	0.499
6	A:167:ARG:HG2	E:14:SIA:CT	0.494
6	A:167:ARG:CB	E:14:SIA:C7	0.491
6	A:83:ASN:ND2	D:1:NAG:O	0.481
6	A:93:ILE:HB	A:94:PRO:HD3	0.477
6	A:83:ASN:ND2	D:1:NAG:C	0.462
6	A:167:ARG:CB	E:14:SIA:H7	0.460
6	A:198:PRO:HA	A:199:PRO:HD3	0.457
6	A:166:ASN:OD1	E:14:SIA:O11	0.456
6	A:154:LEU:HD21	E:11:MAN:O4	0.450
6	A:11:ASN:CB	A:12:PRO:HD3	0.441
6	A:155:SER:HA	A:156:PRO:C	0.435
6	A:56:LYS:HD2	A:67:ILE:HD11	0.433
6	A:197:ASN:HA	A:198:PRO:C	0.427
6	A:48:LEU:HD12	A:87:LEU:HG	0.421
6	A:181:PHE:CB	C:18:FUC:C5	0.418
6	A:172:PHE:HB2	B:18:FUC:O5	0.417
6	A:168:LEU:C	E:14:SIA:CT	0.413
6	A:93:ILE:O	A:95:PRO:HD3	0.411
6	A:167:ARG:C	E:14:SIA:C	0.406

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:158:THR:HA	C:1:NAG:CT	1.574
7	A:168:LEU:CD2	B:1:NAG:H62	1.540
7	A:172:PHE:C	B:18:FUC:H62	1.525
7	A:168:LEU:HB2	B:18:FUC:C6	1.486
7	A:199:PRO:O	E:1:NAG:CT	1.439
7	A:158:THR:CB	C:1:NAG:N	1.437
7	A:168:LEU:CB	B:18:FUC:H61	1.427
7	A:158:THR:HB	C:1:NAG:N	1.417
7	A:158:THR:HB	C:1:NAG:C2	1.400
7	A:172:PHE:O	B:18:FUC:C6	1.309
7	A:133:ASN:ND2	B:1:NAG:C1	1.299
7	A:168:LEU:HD23	B:1:NAG:C6	1.298
7	A:158:THR:CA	C:1:NAG:CT	1.284
7	A:199:PRO:HB2	E:1:NAG:CT	1.267
7	A:172:PHE:C	B:18:FUC:C6	1.252
7	A:199:PRO:CB	E:1:NAG:CT	1.248
7	A:158:THR:CA	C:1:NAG:N	1.217
7	A:169:ASN:ND2	B:18:FUC:O4	1.217
7	A:199:PRO:C	E:1:NAG:CT	1.189
7	A:158:THR:HA	C:1:NAG:C	1.187
7	A:168:LEU:CB	B:18:FUC:C6	1.177
7	A:168:LEU:CD2	B:1:NAG:C6	1.099
7	A:172:PHE:O	B:18:FUC:H63	1.098

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:169:ASN:CG	B:18:FUC:O4	1.084
7	A:168:LEU:HD21	B:1:NAG:H62	1.032
7	A:199:PRO:CA	E:1:NAG:CT	1.020
7	A:169:ASN:OD1	B:18:FUC:H2	0.978
7	A:168:LEU:HB2	B:18:FUC:H63	0.969
7	A:169:ASN:OD1	B:18:FUC:O4	0.965
7	A:133:ASN:HD21	B:1:NAG:C1	0.934
7	A:83:ASN:ND2	D:1:NAG:C1	0.934
7	A:168:LEU:HB3	B:18:FUC:O5	0.919
7	A:168:LEU:CG	B:18:FUC:H61	0.913
7	A:168:LEU:HD23	B:1:NAG:H62	0.902
7	A:158:THR:HA	C:1:NAG:N	0.847
7	A:168:LEU:HB2	B:18:FUC:H61	0.839
7	A:172:PHE:CD2	B:18:FUC:O3	0.839
7	A:171:ASP:OD2	A:172:PHE:HD2	0.837
7	A:158:THR:HG21	C:1:NAG:O3	0.827
7	A:169:ASN:CG	B:18:FUC:HO4	0.826
7	A:168:LEU:HD23	B:18:FUC:O5	0.823
7	A:168:LEU:HB3	B:18:FUC:C6	0.819
7	A:168:LEU:HD23	B:18:FUC:C1	0.819
7	A:199:PRO:CD	E:1:NAG:CT	0.806
7	A:158:THR:CG2	C:1:NAG:O3	0.796
7	A:161:ARG:HH21	C:1:NAG:C3	0.793

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:199:PRO:CG	E:1:NAG:CT	0.780
7	A:169:ASN:H	A:169:ASN:HD22	0.765
7	A:171:ASP:OD2	A:172:PHE:CD2	0.756
7	A:169:ASN:ND2	B:18:FUC:H63	0.748
7	A:169:ASN:HD21	A:172:PHE:HB2	0.745
7	A:158:THR:CB	C:1:NAG:C2	0.707
7	A:161:ARG:HH21	C:1:NAG:H3	0.692
7	A:168:LEU:HB2	A:172:PHE:O	0.691
7	A:168:LEU:CD2	B:18:FUC:C5	0.686
7	A:199:PRO:HD2	E:1:NAG:CT	0.684
7	A:169:ASN:N	A:169:ASN:ND2	0.674
7	A:169:ASN:HD21	B:18:FUC:C4	0.673
7	A:169:ASN:H	A:169:ASN:ND2	0.671
7	A:133:ASN:CG	B:1:NAG:C1	0.670
7	A:168:LEU:CD2	B:18:FUC:H61	0.666
7	A:158:THR:CG2	C:1:NAG:N	0.657
7	A:168:LEU:HD21	B:1:NAG:C5	0.640
7	A:168:LEU:HB3	B:18:FUC:C5	0.639
7	A:161:ARG:HH21	C:1:NAG:C2	0.635
7	A:168:LEU:HD22	B:18:FUC:C5	0.628
7	A:168:LEU:HD21	B:1:NAG:C6	0.627
7	A:168:LEU:CD2	B:18:FUC:O5	0.625
7	A:168:LEU:HD23	B:1:NAG:O6	0.623

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:199:PRO:HB2	E:1:NAG:C	0.614
7	A:11:ASN:HB3	A:12:PRO:HD3	0.610
7	A:172:PHE:CA	B:18:FUC:H62	0.603
7	A:158:THR:C	C:1:NAG:N	0.595
7	A:79:ASN:HD22	A:80:ASN:H	0.592
7	A:117:LEU:HB3	A:118:PRO:HD3	0.591
7	A:169:ASN:HD21	B:18:FUC:H63	0.587
7	A:168:LEU:CB	B:18:FUC:H63	0.586
7	A:168:LEU:HD22	B:18:FUC:H5	0.581
7	A:161:ARG:NH2	C:1:NAG:C3	0.572
7	A:168:LEU:HD22	B:18:FUC:C6	0.571
7	A:168:LEU:HD22	B:18:FUC:H61	0.565
7	A:161:ARG:HB3	C:1:NAG:CT	0.564
7	A:161:ARG:NH2	C:1:NAG:H3	0.563
7	A:61:ASN:HB3	A:63:GLN:HG3	0.560
7	A:168:LEU:CB	B:18:FUC:C5	0.556
7	A:158:THR:HG22	A:161:ARG:NH2	0.547
7	A:29:THR:HG22	A:63:GLN:HG2	0.536
7	A:168:LEU:CD2	B:18:FUC:C6	0.531
7	A:168:LEU:CB	B:18:FUC:O5	0.524
7	A:79:ASN:H	D:1:NAG:CT	0.523
7	A:83:ASN:CG	D:1:NAG:C1	0.515
7	A:169:ASN:N	A:169:ASN:HD22	0.499

Model ID	Atom-1	Atom-2	Clash overlap (Å)
7	A:78:LYS:N	D:1:NAG:CT	0.495
7	A:169:ASN:HD21	B:18:FUC:C6	0.489
7	A:158:THR:N	C:1:NAG:CT	0.481
7	A:169:ASN:OD1	B:18:FUC:C4	0.480
7	A:93:ILE:HB	A:94:PRO:HD3	0.477
7	A:172:PHE:CD2	B:18:FUC:O4	0.477
7	A:199:PRO:N	E:1:NAG:CT	0.464
7	A:198:PRO:HA	A:199:PRO:HD3	0.457
7	A:168:LEU:CD2	B:18:FUC:H5	0.452
7	A:172:PHE:CD2	B:18:FUC:C3	0.451
7	A:11:ASN:CB	A:12:PRO:HD3	0.441
7	A:172:PHE:HD2	B:18:FUC:O4	0.437
7	A:155:SER:HA	A:156:PRO:C	0.435
7	A:56:LYS:HD2	A:67:ILE:HD11	0.433
7	A:169:ASN:ND2	B:18:FUC:C6	0.429
7	A:197:ASN:HA	A:198:PRO:C	0.427
7	A:171:ASP:OD2	B:18:FUC:O4	0.427
7	A:168:LEU:HD23	B:18:FUC:C5	0.422
7	A:48:LEU:HD12	A:87:LEU:HG	0.421
7	A:158:THR:O	C:1:NAG:N	0.417
7	A:93:ILE:O	A:95:PRO:HD3	0.411
7	A:169:ASN:HD21	B:18:FUC:C5	0.405
8	B:17:SIA:CT	D:7:SIA:CT	1.561

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:78:LYS:CG	D:2:NAG:H62	1.498
8	A:78:LYS:HG2	D:2:NAG:C6	1.444
8	A:158:THR:OG1	C:1:NAG:CT	1.086
8	A:125:GLU:OE2	C:18:FUC:H2	0.996
8	A:79:ASN:O	D:1:NAG:CT	0.996
8	A:78:LYS:CB	D:2:NAG:H62	0.946
8	A:183:ALA:CB	C:8:NAG:N	0.942
8	A:183:ALA:HB3	C:8:NAG:N	0.932
8	A:182:GLU:N	C:18:FUC:HO2	0.921
8	A:182:GLU:HB3	C:8:NAG:O	0.901
8	A:78:LYS:HG2	D:2:NAG:H61	0.883
8	A:131:SER:CA	B:1:NAG:CT	0.874
8	B:17:SIA:CT	D:7:SIA:C	0.874
8	A:171:ASP:OD2	A:172:PHE:HD2	0.833
8	A:131:SER:C	B:1:NAG:CT	0.789
8	A:182:GLU:HB3	C:8:NAG:C	0.782
8	A:169:ASN:H	A:169:ASN:HD22	0.765
8	A:169:ASN:HD21	A:172:PHE:HB2	0.763
8	A:171:ASP:OD2	A:172:PHE:CD2	0.756
8	A:78:LYS:CG	D:2:NAG:C6	0.712
8	A:78:LYS:HG2	D:2:NAG:H62	0.705
8	A:168:LEU:HB2	A:172:PHE:O	0.691
8	A:169:ASN:N	A:169:ASN:ND2	0.674

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:199:PRO:O	E:1:NAG:CT	0.673
8	A:169:ASN:H	A:169:ASN:ND2	0.671
8	A:182:GLU:CB	C:8:NAG:O	0.670
8	A:158:THR:CB	C:1:NAG:CT	0.666
8	A:183:ALA:HB2	C:8:NAG:N	0.662
8	A:11:ASN:HB3	A:12:PRO:HD3	0.610
8	A:131:SER:HA	B:1:NAG:CT	0.598
8	A:79:ASN:HD22	A:80:ASN:H	0.592
8	A:117:LEU:HB3	A:118:PRO:HD3	0.591
8	A:78:LYS:HB3	D:2:NAG:H62	0.586
8	A:61:ASN:HB3	A:63:GLN:HG3	0.560
8	A:158:THR:HG22	A:161:ARG:NH2	0.547
8	A:29:THR:HG22	A:63:GLN:HG2	0.536
8	A:169:ASN:N	A:169:ASN:HD22	0.499
8	A:78:LYS:CB	D:1:NAG:O3	0.493
8	A:93:ILE:HB	A:94:PRO:HD3	0.477
8	A:182:GLU:OE1	C:4:MAN:H5	0.474
8	A:198:PRO:HA	A:199:PRO:HD3	0.457
8	A:11:ASN:CB	A:12:PRO:HD3	0.441
8	A:78:LYS:HB3	D:1:NAG:O3	0.441
8	A:155:SER:HA	A:156:PRO:C	0.435
8	A:56:LYS:HD2	A:67:ILE:HD11	0.433
8	A:197:ASN:HA	A:198:PRO:C	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
8	A:158:THR:HB	C:1:NAG:CT	0.426
8	A:48:LEU:HD12	A:87:LEU:HG	0.421
8	A:131:SER:O	B:1:NAG:CT	0.412
8	A:93:ILE:O	A:95:PRO:HD3	0.411
8	A:182:GLU:N	C:18:FUC:O2	0.402
9	A:158:THR:HA	C:1:NAG:CT	0.927
9	A:171:ASP:OD2	A:172:PHE:HD2	0.833
9	A:169:ASN:H	A:169:ASN:HD22	0.765
9	A:169:ASN:HD21	A:172:PHE:HB2	0.763
9	A:171:ASP:OD2	A:172:PHE:CD2	0.756
9	A:158:THR:HB	C:1:NAG:O	0.712
9	A:168:LEU:HB2	A:172:PHE:O	0.691
9	A:169:ASN:N	A:169:ASN:ND2	0.674
9	A:169:ASN:H	A:169:ASN:ND2	0.671
9	A:199:PRO:HD2	E:1:NAG:CT	0.642
9	A:131:SER:O	B:1:NAG:CT	0.623
9	A:11:ASN:HB3	A:12:PRO:HD3	0.610
9	A:158:THR:CA	C:1:NAG:CT	0.600
9	A:199:PRO:N	E:1:NAG:CT	0.597
9	A:79:ASN:HD22	A:80:ASN:H	0.592
9	A:117:LEU:HB3	A:118:PRO:HD3	0.591
9	A:199:PRO:CD	E:1:NAG:CT	0.563
9	A:61:ASN:HB3	A:63:GLN:HG3	0.560

Model ID	Atom-1	Atom-2	Clash overlap (Å)
9	A:158:THR:HG22	C:1:NAG:CT	0.548
9	A:158:THR:HG22	A:161:ARG:NH2	0.547
9	A:29:THR:HG22	A:63:GLN:HG2	0.536
9	A:169:ASN:N	A:169:ASN:HD22	0.499
9	A:158:THR:HB	C:1:NAG:C	0.484
9	A:93:ILE:HB	A:94:PRO:HD3	0.477
9	A:198:PRO:HA	A:199:PRO:HD3	0.457
9	A:11:ASN:CB	A:12:PRO:HD3	0.441
9	A:155:SER:HA	A:156:PRO:C	0.435
9	A:56:LYS:HD2	A:67:ILE:HD11	0.433
9	A:197:ASN:HA	A:198:PRO:C	0.427
9	A:199:PRO:HB2	E:1:NAG:O	0.424
9	A:48:LEU:HD12	A:87:LEU:HG	0.421
9	A:93:ILE:O	A:95:PRO:HD3	0.411
10	A:180:LYS:CB	C:2:NAG:H61	1.549
10	A:180:LYS:CA	C:2:NAG:H62	1.508
10	A:180:LYS:CB	C:2:NAG:C6	1.475
10	A:180:LYS:C	C:2:NAG:H62	1.465
10	A:154:LEU:CD1	E:8:NAG:O	1.400
10	A:180:LYS:HB2	C:2:NAG:C6	1.381
10	A:181:PHE:N	C:2:NAG:C6	1.373
10	A:181:PHE:N	C:2:NAG:H62	1.329
10	A:180:LYS:HB2	C:2:NAG:C5	1.317

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:180:LYS:C	C:2:NAG:C6	1.300
10	A:154:LEU:HD13	E:8:NAG:O	1.230
10	A:133:ASN:HD22	B:1:NAG:C1	1.189
10	A:180:LYS:HB2	C:2:NAG:H5	1.187
10	A:181:PHE:N	C:2:NAG:O6	1.160
10	A:178:LYS:HB3	C:18:FUC:H4	1.124
10	A:180:LYS:HB3	C:2:NAG:H61	1.123
10	A:180:LYS:CA	C:2:NAG:C6	1.109
10	A:154:LEU:HD13	E:8:NAG:C	0.978
10	A:181:PHE:H	C:2:NAG:C6	0.939
10	A:133:ASN:ND2	B:1:NAG:C1	0.921
10	A:181:PHE:CA	C:2:NAG:O6	0.920
10	A:130:ASN:O	B:1:NAG:O	0.898
10	A:171:ASP:OD2	A:172:PHE:HD2	0.833
10	A:154:LEU:CD1	E:8:NAG:C	0.798
10	A:180:LYS:CB	C:2:NAG:H5	0.797
10	A:178:LYS:CB	C:18:FUC:H4	0.791
10	A:180:LYS:N	C:2:NAG:H62	0.787
10	A:169:ASN:H	A:169:ASN:HD22	0.765
10	A:169:ASN:HD21	A:172:PHE:HB2	0.763
10	A:171:ASP:OD2	A:172:PHE:CD2	0.756
10	A:178:LYS:HB3	C:18:FUC:C4	0.731
10	A:168:LEU:HB2	A:172:PHE:O	0.691

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:169:ASN:N	A:169:ASN:ND2	0.674
10	A:169:ASN:H	A:169:ASN:ND2	0.671
10	A:154:LEU:HD12	E:8:NAG:O	0.654
10	A:181:PHE:HA	C:2:NAG:O6	0.632
10	A:11:ASN:HB3	A:12:PRO:HD3	0.610
10	A:79:ASN:HD22	A:80:ASN:H	0.592
10	A:117:LEU:HB3	A:118:PRO:HD3	0.591
10	A:161:ARG:O	C:18:FUC:C6	0.561
10	A:61:ASN:HB3	A:63:GLN:HG3	0.560
10	A:181:PHE:H	C:2:NAG:H62	0.560
10	A:158:THR:HG22	A:161:ARG:NH2	0.547
10	A:29:THR:HG22	A:63:GLN:HG2	0.536
10	A:180:LYS:HB2	C:2:NAG:H61	0.514
10	A:169:ASN:N	A:169:ASN:HD22	0.499
10	A:93:ILE:HB	A:94:PRO:HD3	0.477
10	A:198:PRO:HA	A:199:PRO:HD3	0.457
10	A:181:PHE:CB	C:1:NAG:O3	0.451
10	A:154:LEU:HD12	E:8:NAG:C	0.445
10	A:178:LYS:HG2	C:18:FUC:O3	0.444
10	A:11:ASN:CB	A:12:PRO:HD3	0.441
10	A:154:LEU:HD12	E:8:NAG:CT	0.438
10	A:155:SER:HA	A:156:PRO:C	0.435
10	A:56:LYS:HD2	A:67:ILE:HD11	0.433

Model ID	Atom-1	Atom-2	Clash overlap (Å)
10	A:197:ASN:HA	A:198:PRO:C	0.427
10	A:180:LYS:H	C:2:NAG:C5	0.426
10	A:48:LEU:HD12	A:87:LEU:HG	0.421
10	A:93:ILE:O	A:95:PRO:HD3	0.411
11	A:172:PHE:CD1	B:18:FUC:H62	1.381
11	A:172:PHE:CD1	B:18:FUC:C6	1.296
11	A:158:THR:CA	C:1:NAG:O	1.266
11	A:172:PHE:CG	B:18:FUC:H63	1.240
11	A:158:THR:HA	C:1:NAG:O	1.198
11	A:154:LEU:CD1	E:17:SIA:O7	1.163
11	A:172:PHE:CB	B:18:FUC:H63	1.011
11	A:161:ARG:NH2	C:1:NAG:O3	0.991
11	A:172:PHE:CG	B:18:FUC:C6	0.929
11	A:154:LEU:HD13	E:17:SIA:O7	0.926
11	A:133:ASN:HD22	B:1:NAG:C1	0.892
11	A:199:PRO:O	E:1:NAG:CT	0.881
11	A:172:PHE:HD1	B:18:FUC:H62	0.849
11	A:172:PHE:HB3	B:18:FUC:C6	0.847
11	A:158:THR:CG2	C:1:NAG:O3	0.840
11	A:171:ASP:OD2	A:172:PHE:HD2	0.837
11	A:172:PHE:HB3	B:18:FUC:H63	0.829
11	A:158:THR:HB	C:1:NAG:C2	0.807
11	A:161:ARG:HH21	C:1:NAG:C3	0.807

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:169:ASN:H	A:169:ASN:HD22	0.765
11	A:169:ASN:HD21	A:172:PHE:HB2	0.763
11	A:171:ASP:OD2	A:172:PHE:CD2	0.756
11	A:154:LEU:HD11	E:17:SIA:O7	0.748
11	A:161:ARG:HB3	C:1:NAG:C	0.735
11	A:158:THR:CG2	C:2:NAG:O6	0.700
11	A:168:LEU:HB2	A:172:PHE:O	0.691
11	A:158:THR:HG22	C:1:NAG:O3	0.675
11	A:169:ASN:N	A:169:ASN:ND2	0.674
11	A:133:ASN:ND2	B:1:NAG:C1	0.673
11	A:169:ASN:H	A:169:ASN:ND2	0.671
11	A:158:THR:HG23	C:2:NAG:O6	0.669
11	A:158:THR:HG21	C:2:NAG:C6	0.658
11	A:79:ASN:H	D:1:NAG:CT	0.632
11	A:172:PHE:CB	B:18:FUC:C6	0.624
11	A:161:ARG:HH21	C:1:NAG:C2	0.616
11	A:158:THR:C	C:1:NAG:O	0.613
11	A:11:ASN:HB3	A:12:PRO:HD3	0.610
11	A:158:THR:HG21	C:2:NAG:O5	0.610
11	A:83:ASN:ND2	D:1:NAG:C1	0.609
11	A:172:PHE:CE1	B:18:FUC:H4	0.605
11	A:79:ASN:HD22	A:80:ASN:H	0.592
11	A:117:LEU:HB3	A:118:PRO:HD3	0.591

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:61:ASN:HB3	A:63:GLN:HG3	0.560
11	A:154:LEU:HD13	E:17:SIA:HO7	0.560
11	A:79:ASN:N	D:1:NAG:CT	0.552
11	A:158:THR:HG21	C:2:NAG:O6	0.548
11	A:158:THR:HG22	A:161:ARG:NH2	0.547
11	A:29:THR:HG22	A:63:GLN:HG2	0.536
11	A:161:ARG:HB3	C:1:NAG:O	0.532
11	A:158:THR:CG2	C:2:NAG:C6	0.516
11	A:169:ASN:N	A:169:ASN:HD22	0.499
11	A:172:PHE:CE2	B:18:FUC:O4	0.489
11	A:158:THR:CB	C:1:NAG:O	0.479
11	A:93:ILE:HB	A:94:PRO:HD3	0.477
11	A:158:THR:HG21	C:1:NAG:O3	0.469
11	A:158:THR:HB	C:1:NAG:C3	0.461
11	A:198:PRO:HA	A:199:PRO:HD3	0.457
11	A:154:LEU:HD12	E:17:SIA:O7	0.457
11	A:11:ASN:CB	A:12:PRO:HD3	0.441
11	A:155:SER:HA	A:156:PRO:C	0.435
11	A:78:LYS:N	D:1:NAG:CT	0.434
11	A:56:LYS:HD2	A:67:ILE:HD11	0.433
11	A:158:THR:CB	C:1:NAG:O3	0.432
11	A:172:PHE:HB3	B:18:FUC:H61	0.429
11	A:197:ASN:HA	A:198:PRO:C	0.427

Model ID	Atom-1	Atom-2	Clash overlap (Å)
11	A:172:PHE:CE1	B:18:FUC:C4	0.423
11	A:48:LEU:HD12	A:87:LEU:HG	0.421
11	A:93:ILE:O	A:95:PRO:HD3	0.411
11	A:158:THR:HB	C:1:NAG:O3	0.410
11	A:158:THR:O	C:1:NAG:O	0.408
11	A:154:LEU:CD1	E:17:SIA:HO7	0.405
12	A:160:LYS:NZ	E:17:SIA:C8	1.419
12	A:160:LYS:NZ	E:17:SIA:H8	1.116
12	A:160:LYS:NZ	E:17:SIA:O8	1.112
12	A:83:ASN:CG	D:1:NAG:O5	1.061
12	A:160:LYS:HZ3	E:17:SIA:C8	1.041
12	A:83:ASN:OD1	D:1:NAG:O5	1.040
12	A:151:ASP:OD2	E:18:FUC:C1	1.002
12	A:12:PRO:CB	D:18:FUC:O3	0.956
12	A:160:LYS:HZ2	E:17:SIA:C8	0.913
12	A:12:PRO:HB3	D:18:FUC:O3	0.909
12	A:151:ASP:CG	E:18:FUC:H2	0.890
12	A:83:ASN:CG	D:1:NAG:C1	0.871
12	A:161:ARG:NH2	C:1:NAG:CT	0.863
12	A:12:PRO:HB3	D:18:FUC:HO3	0.852
12	A:171:ASP:OD2	A:172:PHE:HD2	0.833
12	A:83:ASN:ND2	D:1:NAG:O5	0.829
12	A:12:PRO:HB2	D:18:FUC:O3	0.789

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	A:161:ARG:HH21	C:1:NAG:C	0.777
12	A:161:ARG:NH2	C:1:NAG:N	0.766
12	A:169:ASN:H	A:169:ASN:HD22	0.765
12	A:169:ASN:HD21	A:172:PHE:HB2	0.763
12	A:171:ASP:OD2	A:172:PHE:CD2	0.756
12	A:172:PHE:CE1	B:1:NAG:H5	0.732
12	A:151:ASP:OD2	E:18:FUC:C2	0.719
12	A:151:ASP:OD2	E:18:FUC:H2	0.712
12	A:168:LEU:HB2	A:172:PHE:O	0.691
12	A:169:ASN:N	A:169:ASN:ND2	0.674
12	A:169:ASN:H	A:169:ASN:ND2	0.671
12	A:83:ASN:OD1	D:1:NAG:C1	0.641
12	A:11:ASN:HB3	A:12:PRO:HD3	0.610
12	A:79:ASN:HD22	A:80:ASN:H	0.592
12	A:117:LEU:HB3	A:118:PRO:HD3	0.591
12	A:172:PHE:HB3	B:1:NAG:N	0.591
12	A:61:ASN:HB3	A:63:GLN:HG3	0.560
12	A:160:LYS:HE2	E:17:SIA:C7	0.556
12	A:158:THR:HG22	A:161:ARG:NH2	0.547
12	A:29:THR:HG22	A:63:GLN:HG2	0.536
12	A:161:ARG:NE	C:1:NAG:N	0.503
12	A:161:ARG:HH21	C:1:NAG:CT	0.499
12	A:169:ASN:N	A:169:ASN:HD22	0.499

Model ID	Atom-1	Atom-2	Clash overlap (Å)
12	A:161:ARG:CZ	C:1:NAG:CT	0.494
12	A:154:LEU:HD23	E:17:SIA:O9	0.482
12	A:158:THR:O	C:1:NAG:C	0.478
12	A:93:ILE:HB	A:94:PRO:HD3	0.477
12	A:160:LYS:HE2	E:17:SIA:O7	0.465
12	A:172:PHE:CD1	B:1:NAG:C1	0.458
12	A:198:PRO:HA	A:199:PRO:HD3	0.457
12	A:11:ASN:CB	A:12:PRO:HD3	0.441
12	A:155:SER:HA	A:156:PRO:C	0.435
12	A:56:LYS:HD2	A:67:ILE:HD11	0.433
12	A:197:ASN:HA	A:198:PRO:C	0.427
12	A:161:ARG:CZ	C:1:NAG:N	0.422
12	A:48:LEU:HD12	A:87:LEU:HG	0.421
12	A:93:ILE:O	A:95:PRO:HD3	0.411
13	A:181:PHE:CB	C:18:FUC:O2	1.060
13	A:171:ASP:OD2	A:172:PHE:HD2	0.833
13	A:199:PRO:HB2	E:1:NAG:CT	0.786
13	A:199:PRO:CB	E:1:NAG:CT	0.773
13	A:169:ASN:H	A:169:ASN:HD22	0.765
13	A:169:ASN:HD21	A:172:PHE:HB2	0.763
13	A:171:ASP:OD2	A:172:PHE:CD2	0.756
13	A:199:PRO:HD2	E:1:NAG:CT	0.744
13	A:168:LEU:HB2	A:172:PHE:O	0.691

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:131:SER:O	B:1:NAG:CT	0.691
13	A:199:PRO:CD	E:1:NAG:CT	0.675
13	A:169:ASN:N	A:169:ASN:ND2	0.674
13	A:169:ASN:H	A:169:ASN:ND2	0.671
13	A:11:ASN:HB3	A:12:PRO:HD3	0.610
13	A:79:ASN:HD22	A:80:ASN:H	0.592
13	A:117:LEU:HB3	A:118:PRO:HD3	0.591
13	A:180:LYS:NZ	C:17:SIA:H8	0.582
13	A:61:ASN:HB3	A:63:GLN:HG3	0.560
13	A:180:LYS:HZ1	C:17:SIA:H8	0.552
13	A:158:THR:HG22	A:161:ARG:NH2	0.547
13	A:29:THR:HG22	A:63:GLN:HG2	0.536
13	A:180:LYS:HE2	C:17:SIA:O9	0.520
13	A:169:ASN:N	A:169:ASN:HD22	0.499
13	A:93:ILE:HB	A:94:PRO:HD3	0.477
13	A:198:PRO:HA	A:199:PRO:HD3	0.457
13	A:199:PRO:CG	E:1:NAG:CT	0.456
13	A:181:PHE:CB	C:18:FUC:HO2	0.447
13	A:11:ASN:CB	A:12:PRO:HD3	0.441
13	A:155:SER:HA	A:156:PRO:C	0.435
13	A:56:LYS:HD2	A:67:ILE:HD11	0.433
13	A:197:ASN:HA	A:198:PRO:C	0.427
13	A:83:ASN:CG	D:1:NAG:C1	0.424

Model ID	Atom-1	Atom-2	Clash overlap (Å)
13	A:48:LEU:HD12	A:87:LEU:HG	0.421
13	A:93:ILE:O	A:95:PRO:HD3	0.411
13	A:180:LYS:CG	C:18:FUC:O4	0.408
14	A:169:ASN:CG	B:18:FUC:H63	1.350
14	A:133:ASN:ND2	B:1:NAG:C1	1.158
14	A:169:ASN:OD1	B:18:FUC:O4	1.152
14	A:169:ASN:OD1	B:18:FUC:H63	1.136
14	A:172:PHE:HB2	B:18:FUC:H62	1.084
14	A:158:THR:HA	C:1:NAG:CT	1.029
14	A:169:ASN:OD1	B:18:FUC:C6	1.002
14	A:169:ASN:CG	B:18:FUC:C6	0.958
14	A:169:ASN:ND2	B:18:FUC:H63	0.947
14	A:172:PHE:HB2	B:18:FUC:C6	0.936
14	A:168:LEU:HB3	B:18:FUC:H61	0.935
14	A:169:ASN:ND2	B:18:FUC:C6	0.913
14	A:172:PHE:CB	B:18:FUC:H62	0.890
14	A:171:ASP:OD2	A:172:PHE:HD2	0.833
14	A:168:LEU:CD2	B:1:NAG:H62	0.820
14	A:168:LEU:HD21	B:1:NAG:H62	0.795
14	A:158:THR:HG22	C:1:NAG:CT	0.781
14	A:168:LEU:CB	B:18:FUC:H61	0.773
14	A:169:ASN:H	A:169:ASN:HD22	0.765
14	A:169:ASN:HD21	A:172:PHE:HB2	0.763

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:171:ASP:OD2	A:172:PHE:CD2	0.756
14	A:168:LEU:HB3	B:18:FUC:C6	0.754
14	A:158:THR:CA	C:1:NAG:CT	0.740
14	A:133:ASN:HD21	B:1:NAG:C1	0.738
14	A:169:ASN:HD21	B:18:FUC:C6	0.713
14	A:168:LEU:HD23	B:18:FUC:O5	0.699
14	A:168:LEU:HB2	A:172:PHE:O	0.691
14	A:158:THR:HB	C:1:NAG:O	0.685
14	A:169:ASN:N	A:169:ASN:ND2	0.674
14	A:169:ASN:H	A:169:ASN:ND2	0.671
14	A:158:THR:HB	C:1:NAG:C	0.612
14	A:11:ASN:HB3	A:12:PRO:HD3	0.610
14	A:169:ASN:OD1	B:18:FUC:C4	0.598
14	A:79:ASN:HD22	A:80:ASN:H	0.592
14	A:117:LEU:HB3	A:118:PRO:HD3	0.591
14	A:161:ARG:NE	C:1:NAG:N	0.566
14	A:61:ASN:HB3	A:63:GLN:HG3	0.560
14	A:168:LEU:HD23	B:18:FUC:C5	0.560
14	A:168:LEU:HD23	B:1:NAG:H62	0.556
14	A:158:THR:CB	C:1:NAG:CT	0.551
14	A:158:THR:CG2	C:1:NAG:CT	0.543
14	A:158:THR:HG22	A:161:ARG:NH2	0.541
14	A:29:THR:HG22	A:63:GLN:HG2	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
14	A:158:THR:CG2	C:1:NAG:O	0.530
14	A:169:ASN:N	A:169:ASN:HD22	0.499
14	A:158:THR:CB	C:1:NAG:O	0.496
14	A:83:ASN:ND2	D:1:NAG:C1	0.490
14	A:93:ILE:HB	A:94:PRO:HD3	0.477
14	A:182:GLU:OE2	C:11:MAN:O3	0.460
14	A:198:PRO:HA	A:199:PRO:HD3	0.457
14	A:169:ASN:HD21	B:18:FUC:H62	0.452
14	A:11:ASN:CB	A:12:PRO:HD3	0.441
14	A:172:PHE:CB	B:18:FUC:C6	0.436
14	A:155:SER:HA	A:156:PRO:C	0.435
14	A:56:LYS:HD2	A:67:ILE:HD11	0.433
14	A:158:THR:CB	C:1:NAG:C	0.429
14	A:133:ASN:CG	B:1:NAG:C1	0.429
14	A:197:ASN:HA	A:198:PRO:C	0.427
14	A:48:LEU:HD12	A:87:LEU:HG	0.421
14	A:182:GLU:OE2	C:11:MAN:H4	0.418
14	A:93:ILE:O	A:95:PRO:HD3	0.411
15	A:133:ASN:ND2	B:1:NAG:C1	1.443
15	A:168:LEU:HD23	B:18:FUC:O5	1.325
15	A:168:LEU:CD2	B:18:FUC:O5	1.162
15	A:180:LYS:HB2	C:2:NAG:H62	1.083
15	A:180:LYS:HZ3	C:4:MAN:H62	1.060

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:168:LEU:HD23	B:18:FUC:C1	1.001
15	A:133:ASN:HD21	B:1:NAG:C1	0.971
15	A:180:LYS:NZ	C:4:MAN:H62	0.955
15	A:151:ASP:HB3	E:18:FUC:O4	0.943
15	A:180:LYS:HB2	C:2:NAG:C6	0.937
15	A:151:ASP:OD2	E:18:FUC:C1	0.933
15	A:180:LYS:CB	C:2:NAG:H62	0.880
15	A:133:ASN:HD22	B:1:NAG:C1	0.876
15	A:180:LYS:NZ	C:8:NAG:N	0.849
15	A:171:ASP:OD2	A:172:PHE:HD2	0.833
15	A:151:ASP:CB	E:18:FUC:O5	0.781
15	A:78:LYS:N	D:1:NAG:CT	0.773
15	A:169:ASN:H	A:169:ASN:HD22	0.765
15	A:169:ASN:HD21	A:172:PHE:HB2	0.763
15	A:171:ASP:OD2	A:172:PHE:CD2	0.756
15	A:78:LYS:HG2	D:2:NAG:O6	0.754
15	A:151:ASP:HB2	E:18:FUC:O5	0.748
15	A:151:ASP:CG	E:18:FUC:C1	0.719
15	A:78:LYS:HG2	D:2:NAG:C6	0.692
15	A:168:LEU:HB2	A:172:PHE:O	0.691
15	A:168:LEU:CD2	B:18:FUC:C1	0.682
15	A:78:LYS:HB2	D:1:NAG:O3	0.678
15	A:180:LYS:CG	C:2:NAG:H62	0.674

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:169:ASN:N	A:169:ASN:ND2	0.674
15	A:169:ASN:H	A:169:ASN:ND2	0.671
15	A:151:ASP:HB3	E:18:FUC:HO4	0.659
15	A:78:LYS:HG2	D:2:NAG:H61	0.641
15	A:180:LYS:HG3	C:2:NAG:H62	0.612
15	A:11:ASN:HB3	A:12:PRO:HD3	0.610
15	A:79:ASN:HD22	A:80:ASN:H	0.592
15	A:117:LEU:HB3	A:118:PRO:HD3	0.591
15	A:78:LYS:H	D:1:NAG:CT	0.585
15	A:61:ASN:HB3	A:63:GLN:HG3	0.560
15	A:78:LYS:CB	D:1:NAG:O3	0.557
15	A:151:ASP:CG	E:18:FUC:H2	0.550
15	A:130:ASN:OD1	B:1:NAG:H5	0.548
15	A:158:THR:HG22	A:161:ARG:NH2	0.547
15	A:151:ASP:CG	E:18:FUC:O5	0.540
15	A:29:THR:HG22	A:63:GLN:HG2	0.536
15	A:78:LYS:CG	D:2:NAG:O6	0.527
15	A:181:PHE:O	C:1:NAG:CT	0.509
15	A:168:LEU:HD21	B:1:NAG:H62	0.500
15	A:169:ASN:N	A:169:ASN:HD22	0.499
15	A:151:ASP:HB2	E:18:FUC:H63	0.496
15	A:151:ASP:OD2	E:18:FUC:O5	0.480
15	A:93:ILE:HB	A:94:PRO:HD3	0.477

Model ID	Atom-1	Atom-2	Clash overlap (Å)
15	A:198:PRO:HA	A:199:PRO:HD3	0.457
15	A:180:LYS:HB2	C:2:NAG:O6	0.443
15	A:11:ASN:CB	A:12:PRO:HD3	0.441
15	A:151:ASP:CG	E:18:FUC:C2	0.440
15	A:155:SER:HA	A:156:PRO:C	0.435
15	A:56:LYS:HD2	A:67:ILE:HD11	0.433
15	A:197:ASN:HA	A:198:PRO:C	0.427
15	A:48:LEU:HD12	A:87:LEU:HG	0.421
15	A:172:PHE:HB3	B:18:FUC:H63	0.418
15	A:93:ILE:O	A:95:PRO:HD3	0.411
15	A:151:ASP:HB2	E:18:FUC:C6	0.409
15	C:9:GAL:H4	C:10:SIA:O6	0.401
15	A:180:LYS:NZ	C:8:NAG:C	0.400
16	A:130:ASN:O	B:1:NAG:CT	1.350
16	A:131:SER:O	B:1:NAG:O	1.188
16	A:181:PHE:CB	C:18:FUC:C1	0.931
16	A:131:SER:O	B:1:NAG:C	0.864
16	A:199:PRO:O	E:1:NAG:CT	0.838
16	A:171:ASP:OD2	A:172:PHE:HD2	0.833
16	A:130:ASN:C	B:1:NAG:CT	0.816
16	A:169:ASN:H	A:169:ASN:HD22	0.765
16	A:169:ASN:HD21	A:172:PHE:HB2	0.763
16	A:171:ASP:OD2	A:172:PHE:CD2	0.756

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:131:SER:C	B:1:NAG:CT	0.696
16	A:168:LEU:HB2	A:172:PHE:O	0.691
16	A:169:ASN:N	A:169:ASN:ND2	0.674
16	A:169:ASN:H	A:169:ASN:ND2	0.671
16	A:131:SER:CA	B:1:NAG:CT	0.648
16	A:158:THR:HA	C:1:NAG:CT	0.634
16	A:161:ARG:NE	C:1:NAG:N	0.612
16	A:11:ASN:HB3	A:12:PRO:HD3	0.610
16	A:131:SER:O	B:1:NAG:CT	0.604
16	A:79:ASN:HD22	A:80:ASN:H	0.592
16	A:117:LEU:HB3	A:118:PRO:HD3	0.591
16	A:61:ASN:HB3	A:63:GLN:HG3	0.560
16	C:14:SIA:H91	C:14:SIA:O6	0.557
16	A:158:THR:HG22	A:161:ARG:NH2	0.547
16	A:29:THR:HG22	A:63:GLN:HG2	0.536
16	A:131:SER:HA	B:1:NAG:CT	0.533
16	A:169:ASN:N	A:169:ASN:HD22	0.499
16	A:93:ILE:HB	A:94:PRO:HD3	0.477
16	A:158:THR:CB	C:1:NAG:CT	0.465
16	A:198:PRO:HA	A:199:PRO:HD3	0.457
16	A:11:ASN:CB	A:12:PRO:HD3	0.441
16	A:155:SER:HA	A:156:PRO:C	0.435
16	A:56:LYS:HD2	A:67:ILE:HD11	0.433

Model ID	Atom-1	Atom-2	Clash overlap (Å)
16	A:158:THR:CA	C:1:NAG:CT	0.432
16	A:197:ASN:HA	A:198:PRO:C	0.427
16	A:158:THR:HG22	C:1:NAG:CT	0.426
16	A:158:THR:HB	C:1:NAG:CT	0.425
16	A:48:LEU:HD12	A:87:LEU:HG	0.421
16	A:93:ILE:O	A:95:PRO:HD3	0.411
17	A:103:GLN:HE22	D:18:FUC:C5	1.480
17	A:103:GLN:NE2	D:18:FUC:H5	1.287
17	A:133:ASN:HD22	B:1:NAG:C1	1.170
17	A:103:GLN:NE2	D:18:FUC:C5	1.135
17	A:103:GLN:OE1	D:18:FUC:H61	1.123
17	A:103:GLN:HE22	D:18:FUC:H5	1.028
17	A:181:PHE:CB	C:18:FUC:O4	1.008
17	A:103:GLN:NE2	D:18:FUC:C6	0.980
17	A:103:GLN:OE1	D:18:FUC:C6	0.967
17	A:103:GLN:CD	D:18:FUC:C6	0.956
17	A:133:ASN:ND2	B:1:NAG:C1	0.892
17	A:103:GLN:NE2	D:18:FUC:H62	0.888
17	A:182:GLU:OE1	C:15:NAG:O6	0.877
17	A:103:GLN:HE22	D:18:FUC:C4	0.876
17	A:103:GLN:HE22	D:18:FUC:C6	0.854
17	A:171:ASP:OD2	A:172:PHE:HD2	0.837
17	A:103:GLN:CD	D:18:FUC:H62	0.776

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:169:ASN:H	A:169:ASN:HD22	0.765
17	A:169:ASN:HD21	A:172:PHE:HB2	0.763
17	A:171:ASP:OD2	A:172:PHE:CD2	0.756
17	A:182:GLU:OE1	C:15:NAG:C6	0.736
17	A:103:GLN:CD	D:18:FUC:H5	0.705
17	A:182:GLU:OE2	C:15:NAG:H62	0.692
17	A:168:LEU:HB2	A:172:PHE:O	0.691
17	A:169:ASN:N	A:169:ASN:ND2	0.674
17	A:169:ASN:H	A:169:ASN:ND2	0.671
17	A:83:ASN:ND2	D:1:NAG:C1	0.640
17	A:11:ASN:HB3	A:12:PRO:HD3	0.610
17	A:83:ASN:CG	D:1:NAG:C1	0.607
17	A:79:ASN:HD22	A:80:ASN:H	0.592
17	A:117:LEU:HB3	A:118:PRO:HD3	0.591
17	A:61:ASN:HB3	A:63:GLN:HG3	0.560
17	E:14:SIA:H91	E:14:SIA:O6	0.548
17	A:158:THR:HG22	A:161:ARG:NH2	0.547
17	A:29:THR:HG22	A:63:GLN:HG2	0.536
17	A:199:PRO:O	E:1:NAG:CT	0.519
17	A:169:ASN:N	A:169:ASN:HD22	0.499
17	A:103:GLN:HE22	D:18:FUC:H4	0.488
17	A:93:ILE:HB	A:94:PRO:HD3	0.477
17	A:103:GLN:NE2	D:18:FUC:H4	0.475

Model ID	Atom-1	Atom-2	Clash overlap (Å)
17	A:198:PRO:HA	A:199:PRO:HD3	0.457
17	A:103:GLN:CD	D:18:FUC:C5	0.451
17	A:182:GLU:CD	C:15:NAG:H62	0.451
17	A:182:GLU:CD	C:15:NAG:C6	0.447
17	A:11:ASN:CB	A:12:PRO:HD3	0.441
17	A:155:SER:HA	A:156:PRO:C	0.435
17	A:56:LYS:HD2	A:67:ILE:HD11	0.433
17	A:158:THR:HB	C:1:NAG:N	0.432
17	A:197:ASN:HA	A:198:PRO:C	0.427
17	A:48:LEU:HD12	A:87:LEU:HG	0.421
17	A:131:SER:O	B:1:NAG:CT	0.418
17	A:93:ILE:O	A:95:PRO:HD3	0.411
17	C:13:GAL:C4	C:14:SIA:C1	0.407
18	A:172:PHE:CG	B:18:FUC:C6	1.204
18	A:172:PHE:CB	B:18:FUC:C6	1.180
18	A:172:PHE:CG	B:18:FUC:H62	1.156
18	A:172:PHE:HB2	B:18:FUC:H63	1.070
18	A:172:PHE:HB3	B:18:FUC:H61	0.979
18	A:172:PHE:CB	B:18:FUC:H61	0.973
18	A:169:ASN:OD1	B:18:FUC:O4	0.961
18	A:172:PHE:CD2	B:18:FUC:H62	0.866
18	A:171:ASP:OD2	A:172:PHE:HD2	0.833
18	A:172:PHE:CB	B:18:FUC:H63	0.798

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:169:ASN:H	A:169:ASN:HD22	0.765
18	A:169:ASN:HD21	A:172:PHE:HB2	0.763
18	A:171:ASP:OD2	A:172:PHE:CD2	0.756
18	A:133:ASN:ND2	B:1:NAG:C1	0.752
18	A:168:LEU:HB2	A:172:PHE:O	0.691
18	A:169:ASN:N	A:169:ASN:ND2	0.674
18	A:172:PHE:CG	B:18:FUC:H61	0.672
18	A:79:ASN:H	D:1:NAG:CT	0.672
18	A:169:ASN:H	A:169:ASN:ND2	0.671
18	A:168:LEU:HD23	B:18:FUC:O5	0.642
18	A:79:ASN:N	D:1:NAG:CT	0.637
18	A:78:LYS:N	D:1:NAG:CT	0.622
18	A:11:ASN:HB3	A:12:PRO:HD3	0.610
18	A:172:PHE:CD2	B:18:FUC:C6	0.592
18	A:79:ASN:HD22	A:80:ASN:H	0.592
18	A:117:LEU:HB3	A:118:PRO:HD3	0.591
18	A:172:PHE:CD1	B:18:FUC:H62	0.581
18	A:199:PRO:O	E:1:NAG:CT	0.561
18	A:61:ASN:HB3	A:63:GLN:HG3	0.560
18	A:168:LEU:CD2	B:1:NAG:H62	0.554
18	A:172:PHE:HB2	B:18:FUC:C6	0.550
18	A:78:LYS:HB2	D:1:NAG:O	0.549
18	A:158:THR:HG22	A:161:ARG:NH2	0.547

Model ID	Atom-1	Atom-2	Clash overlap (Å)
18	A:29:THR:HG22	A:63:GLN:HG2	0.536
18	A:168:LEU:HD21	B:1:NAG:H62	0.533
18	A:168:LEU:HD23	B:18:FUC:C1	0.514
18	A:169:ASN:N	A:169:ASN:HD22	0.499
18	A:79:ASN:H	D:1:NAG:C	0.493
18	A:93:ILE:HB	A:94:PRO:HD3	0.477
18	A:79:ASN:O	D:1:NAG:CT	0.474
18	A:198:PRO:HA	A:199:PRO:HD3	0.457
18	A:133:ASN:HD22	B:1:NAG:C1	0.456
18	A:11:ASN:CB	A:12:PRO:HD3	0.441
18	A:155:SER:HA	A:156:PRO:C	0.435
18	A:172:PHE:CD1	B:18:FUC:C6	0.435
18	A:56:LYS:HD2	A:67:ILE:HD11	0.433
18	A:197:ASN:HA	A:198:PRO:C	0.427
18	A:48:LEU:HD12	A:87:LEU:HG	0.421
18	A:93:ILE:O	A:95:PRO:HD3	0.411
19	A:130:ASN:OD1	B:1:NAG:H5	1.280
19	A:130:ASN:OD1	B:1:NAG:C5	1.263
19	A:168:LEU:HA	B:18:FUC:O4	1.069
19	A:174:GLN:HG2	B:18:FUC:C6	0.973
19	A:174:GLN:HG2	B:18:FUC:H62	0.840
19	A:174:GLN:HG2	B:18:FUC:H61	0.836
19	A:171:ASP:OD2	A:172:PHE:HD2	0.833

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:83:ASN:OD1	D:1:NAG:C1	0.800
19	A:168:LEU:CA	B:18:FUC:O4	0.771
19	A:182:GLU:N	C:18:FUC:O3	0.769
19	A:101:THR:OG1	D:18:FUC:H4	0.767
19	A:169:ASN:H	A:169:ASN:HD22	0.765
19	A:169:ASN:HD21	A:172:PHE:HB2	0.763
19	A:171:ASP:OD2	A:172:PHE:CD2	0.756
19	A:130:ASN:OD1	B:1:NAG:O5	0.730
19	A:101:THR:OG1	D:18:FUC:C4	0.697
19	A:174:GLN:CG	B:18:FUC:H61	0.694
19	A:168:LEU:HB2	A:172:PHE:O	0.691
19	A:169:ASN:N	A:169:ASN:ND2	0.674
19	A:169:ASN:H	A:169:ASN:ND2	0.671
19	A:125:GLU:OE2	C:18:FUC:O4	0.657
19	A:11:ASN:HB3	A:12:PRO:HD3	0.610
19	A:174:GLN:CD	B:18:FUC:H61	0.610
19	A:130:ASN:OD1	B:1:NAG:C6	0.606
19	A:79:ASN:HD22	A:80:ASN:H	0.592
19	A:117:LEU:HB3	A:118:PRO:HD3	0.591
19	A:61:ASN:HB3	A:63:GLN:HG3	0.560
19	A:158:THR:HG22	A:161:ARG:NH2	0.547
19	A:29:THR:HG22	A:63:GLN:HG2	0.536
19	A:103:GLN:NE2	D:1:NAG:H62	0.536

Model ID	Atom-1	Atom-2	Clash overlap (Å)
19	A:168:LEU:CA	B:18:FUC:O3	0.527
19	A:83:ASN:CG	D:1:NAG:C1	0.499
19	A:169:ASN:N	A:169:ASN:HD22	0.499
19	A:93:ILE:HB	A:94:PRO:HD3	0.477
19	A:198:PRO:HA	A:199:PRO:HD3	0.457
19	A:11:ASN:CB	A:12:PRO:HD3	0.441
19	A:168:LEU:C	B:18:FUC:O3	0.439
19	A:155:SER:HA	A:156:PRO:C	0.435
19	A:56:LYS:HD2	A:67:ILE:HD11	0.433
19	A:168:LEU:HD21	B:1:NAG:O6	0.432
19	A:197:ASN:HA	A:198:PRO:C	0.427
19	C:10:SIA:H6	C:10:SIA:O	0.424
19	A:48:LEU:HD12	A:87:LEU:HG	0.421
19	A:93:ILE:O	A:95:PRO:HD3	0.411
19	E:13:GAL:C4	E:14:SIA:C1	0.404
20	A:157:VAL:CG2	C:14:SIA:CT	1.462
20	A:133:ASN:ND2	B:1:NAG:C1	1.421
20	A:133:ASN:HD22	B:1:NAG:C1	1.420
20	A:157:VAL:HG21	C:14:SIA:CT	1.196
20	A:157:VAL:HG23	C:14:SIA:CT	1.063
20	A:157:VAL:CB	C:14:SIA:CT	0.985
20	A:171:ASP:OD2	A:172:PHE:HD2	0.833
20	A:157:VAL:HB	C:14:SIA:CT	0.811

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	A:169:ASN:H	A:169:ASN:HD22	0.765
20	A:133:ASN:HD21	B:1:NAG:C1	0.764
20	A:169:ASN:HD21	A:172:PHE:HB2	0.763
20	A:171:ASP:OD2	A:172:PHE:CD2	0.756
20	A:83:ASN:CG	D:1:NAG:C1	0.698
20	A:83:ASN:OD1	D:1:NAG:C1	0.692
20	A:168:LEU:HB2	A:172:PHE:O	0.691
20	A:169:ASN:N	A:169:ASN:ND2	0.674
20	A:169:ASN:H	A:169:ASN:ND2	0.671
20	A:11:ASN:HB3	A:12:PRO:HD3	0.610
20	A:79:ASN:HD22	A:80:ASN:H	0.592
20	A:117:LEU:HB3	A:118:PRO:HD3	0.591
20	A:61:ASN:HB3	A:63:GLN:HG3	0.560
20	A:158:THR:HG22	A:161:ARG:NH2	0.547
20	A:29:THR:HG22	A:63:GLN:HG2	0.536
20	A:131:SER:O	B:1:NAG:CT	0.533
20	A:182:GLU:HG3	C:8:NAG:CT	0.515
20	A:161:ARG:HG3	C:18:FUC:H61	0.506
20	A:169:ASN:N	A:169:ASN:HD22	0.499
20	A:83:ASN:ND2	D:1:NAG:C1	0.482
20	A:93:ILE:HB	A:94:PRO:HD3	0.477
20	A:198:PRO:HA	A:199:PRO:HD3	0.457
20	A:182:GLU:CG	C:8:NAG:CT	0.455

Model ID	Atom-1	Atom-2	Clash overlap (Å)
20	A:11:ASN:CB	A:12:PRO:HD3	0.441
20	A:155:SER:HA	A:156:PRO:C	0.435
20	A:56:LYS:HD2	A:67:ILE:HD11	0.433
20	A:197:ASN:HA	A:198:PRO:C	0.427
20	A:48:LEU:HD12	A:87:LEU:HG	0.421
20	A:93:ILE:O	A:95:PRO:HD3	0.411
20	A:157:VAL:HB	C:14:SIA:C	0.411
20	A:161:ARG:CG	C:18:FUC:H61	0.405

Torsion angles: Protein backbone ?

In the following table, Ramachandran outliers are listed. The Analysed column shows the number of residues for which the backbone conformation was analysed.

Model ID	Analyzed	Favored	Allowed	Outliers
1	207	178	26	3
2	207	178	26	3
3	207	178	26	3
4	207	178	26	3
5	207	178	26	3
6	207	178	26	3
7	207	178	26	3
8	207	178	26	3
9	207	178	26	3
10	207	178	26	3
11	207	178	26	3
12	207	178	26	3

Model ID	Analyzed	Favored	Allowed	Outliers
13	207	178	26	3
14	207	178	26	3
15	207	178	26	3
16	207	178	26	3
17	207	178	26	3
18	207	178	26	3
19	207	178	26	3
20	207	178	26	3

Detailed list of outliers are tabulated below.

Torsion angles: Protein sidechains ?

In the following table, sidechain outliers are listed. The Analysed column shows the number of residues for which the sidechain conformation was analysed.

Model ID	Analyzed	Favored	Allowed	Outliers
1	185	144	31	10
2	185	144	31	10
3	185	144	31	10
4	185	144	31	10
5	185	144	31	10
6	185	144	31	10
7	185	144	31	10
8	185	144	31	10
9	185	144	31	10
10	185	144	31	10
11	185	144	31	10
12	185	144	31	10

Model ID	Analyzed	Favored	Allowed	Outliers
13	185	144	31	10
14	185	144	31	10
15	185	144	31	10
16	185	144	31	10
17	185	144	31	10
18	185	144	31	10
19	185	144	31	10
20	185	144	31	10

Detailed list of outliers are tabulated below.

Model ID	Chain	Residue ID	Residue type
1	A	8	PHE
1	A	18	GLU
1	A	43	ILE
1	A	73	GLU
1	A	79	ASN
1	A	135	THR
1	A	152	LEU
1	A	169	ASN
1	A	177	LEU
1	A	185	ILE
2	A	8	PHE
2	A	18	GLU
2	A	43	ILE

Model ID	Chain	Residue ID	Residue type
2	A	73	GLU
2	A	79	ASN
2	A	135	THR
2	A	152	LEU
2	A	169	ASN
2	A	177	LEU
2	A	185	ILE
3	A	8	PHE
3	A	18	GLU
3	A	43	ILE
3	A	73	GLU
3	A	79	ASN
3	A	135	THR
3	A	152	LEU
3	A	169	ASN
3	A	177	LEU
3	A	185	ILE
4	A	8	PHE
4	A	18	GLU
4	A	43	ILE
4	A	73	GLU
4	A	79	ASN
4	A	135	THR

Model ID	Chain	Residue ID	Residue type
4	A	152	LEU
4	A	169	ASN
4	A	177	LEU
4	A	185	ILE
5	A	8	PHE
5	A	18	GLU
5	A	43	ILE
5	A	73	GLU
5	A	79	ASN
5	A	135	THR
5	A	152	LEU
5	A	169	ASN
5	A	177	LEU
5	A	185	ILE
6	A	8	PHE
6	A	18	GLU
6	A	43	ILE
6	A	73	GLU
6	A	79	ASN
6	A	135	THR
6	A	152	LEU
6	A	169	ASN
6	A	177	LEU

Model ID	Chain	Residue ID	Residue type
6	A	185	ILE
7	A	8	PHE
7	A	18	GLU
7	A	43	ILE
7	A	73	GLU
7	A	79	ASN
7	A	135	THR
7	A	152	LEU
7	A	169	ASN
7	A	177	LEU
7	A	185	ILE
8	A	8	PHE
8	A	18	GLU
8	A	43	ILE
8	A	73	GLU
8	A	79	ASN
8	A	135	THR
8	A	152	LEU
8	A	169	ASN
8	A	177	LEU
8	A	185	ILE
9	A	8	PHE
9	A	18	GLU

Model ID	Chain	Residue ID	Residue type
9	A	43	ILE
9	A	73	GLU
9	A	79	ASN
9	A	135	THR
9	A	152	LEU
9	A	169	ASN
9	A	177	LEU
9	A	185	ILE
10	A	8	PHE
10	A	18	GLU
10	A	43	ILE
10	A	73	GLU
10	A	79	ASN
10	A	135	THR
10	A	152	LEU
10	A	169	ASN
10	A	177	LEU
10	A	185	ILE
11	A	8	PHE
11	A	18	GLU
11	A	43	ILE
11	A	73	GLU
11	A	79	ASN

Model ID	Chain	Residue ID	Residue type
11	A	135	THR
11	A	152	LEU
11	A	169	ASN
11	A	177	LEU
11	A	185	ILE
12	A	8	PHE
12	A	18	GLU
12	A	43	ILE
12	A	73	GLU
12	A	79	ASN
12	A	135	THR
12	A	152	LEU
12	A	169	ASN
12	A	177	LEU
12	A	185	ILE
13	A	8	PHE
13	A	18	GLU
13	A	43	ILE
13	A	73	GLU
13	A	79	ASN
13	A	135	THR
13	A	152	LEU
13	A	169	ASN

Model ID	Chain	Residue ID	Residue type
13	A	177	LEU
13	A	185	ILE
14	A	8	PHE
14	A	18	GLU
14	A	43	ILE
14	A	73	GLU
14	A	79	ASN
14	A	135	THR
14	A	152	LEU
14	A	169	ASN
14	A	177	LEU
14	A	185	ILE
15	A	8	PHE
15	A	18	GLU
15	A	43	ILE
15	A	73	GLU
15	A	79	ASN
15	A	135	THR
15	A	152	LEU
15	A	169	ASN
15	A	177	LEU
15	A	185	ILE
16	A	8	PHE

Model ID	Chain	Residue ID	Residue type
16	A	18	GLU
16	A	43	ILE
16	A	73	GLU
16	A	79	ASN
16	A	135	THR
16	A	152	LEU
16	A	169	ASN
16	A	177	LEU
16	A	185	ILE
17	A	8	PHE
17	A	18	GLU
17	A	43	ILE
17	A	73	GLU
17	A	79	ASN
17	A	135	THR
17	A	152	LEU
17	A	169	ASN
17	A	177	LEU
17	A	185	ILE
18	A	8	PHE
18	A	18	GLU
18	A	43	ILE
18	A	73	GLU

Model ID	Chain	Residue ID	Residue type
18	A	79	ASN
18	A	135	THR
18	A	152	LEU
18	A	169	ASN
18	A	177	LEU
18	A	185	ILE
19	A	8	PHE
19	A	18	GLU
19	A	43	ILE
19	A	73	GLU
19	A	79	ASN
19	A	135	THR
19	A	152	LEU
19	A	169	ASN
19	A	177	LEU
19	A	185	ILE
20	A	8	PHE
20	A	18	GLU
20	A	43	ILE
20	A	73	GLU
20	A	79	ASN
20	A	135	THR
20	A	152	LEU

Model ID	Chain	Residue ID	Residue type
20	A	169	ASN
20	A	177	LEU
20	A	185	ILE

Fit of model to data used for modeling ?

SAS data used in this integrative model could not be validated as the sascif file is currently unavailable.

Fit of model to data used for validation ?

Validation for this section is under development.

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