
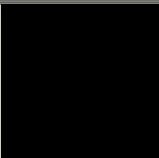
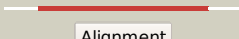
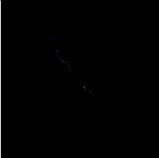
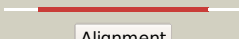






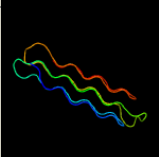

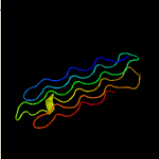

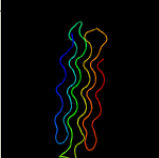

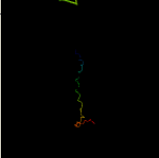

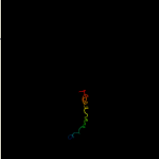


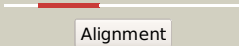




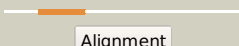

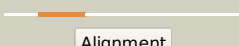

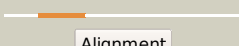

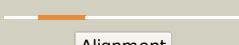






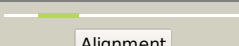

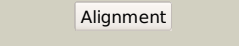

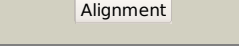
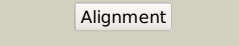




Phyre2

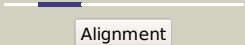
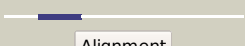

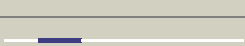


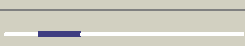


Email	mdejesus@rockefeller.edu
Description	RVBD1744c_(-)_1970996_1971397
Date	Fri Aug 2 13:30:35 BST 2019
Unique Job ID	50a4155431d7d63d

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3hqvB_	 Alignment		99.6	18	PDB header: structural protein, contractile protein Chain: B; PDB Molecule: collagen alpha-2(i) chain; PDBTitle: low resolution, molecular envelope structure of type i2 collagen in situ determined by fiber diffraction. single3 type i collagen molecule, rigid body refinement
2	c1ygvA_	 Alignment		99.5	14	PDB header: structural protein/contractile protein Chain: A; PDB Molecule: collagen i alpha 1; PDBTitle: the structure of collagen type i. single type i collagen2 molecule: rigid refinement
3	c1y0fB_	 Alignment		99.3	16	PDB header: structural protein/contractile protein Chain: B; PDB Molecule: collagen i alpha 2; PDBTitle: the structure of collagen type i. single type i collagen2 molecule
4	c3bogB_	 Alignment		98.4	16	PDB header: antifreeze protein Chain: B; PDB Molecule: 6.5 kda glycine-rich antifreeze protein; PDBTitle: snow flea antifreeze protein quasi-racemate
5	c3bogA_	 Alignment		98.4	16	PDB header: antifreeze protein Chain: A; PDB Molecule: 6.5 kda glycine-rich antifreeze protein; PDBTitle: snow flea antifreeze protein quasi-racemate
6	c2pneA_	 Alignment		98.3	16	PDB header: antifreeze protein Chain: A; PDB Molecule: 6.5 kda glycine-rich antifreeze protein; PDBTitle: crystal structure of the snow flea antifreeze protein
7	c3boiB_	 Alignment		98.3	16	PDB header: antifreeze protein Chain: B; PDB Molecule: 6.5 kda glycine-rich antifreeze protein; PDBTitle: snow flea antifreeze protein racemate
8	c3boiA_	 Alignment		98.3	16	PDB header: antifreeze protein Chain: A; PDB Molecule: 6.5 kda glycine-rich antifreeze protein; PDBTitle: snow flea antifreeze protein racemate
9	c1nayC_	 Alignment		96.8	9	PDB header: structural protein Chain: C; PDB Molecule: collagen-like peptide; PDBTitle: gpp-foldon:x-ray structure
10	c5ctdA_	 Alignment		96.4	21	PDB header: structural protein Chain: A; PDB Molecule: collagen alpha-1(i) chain, collagen alpha-1(ix) chain; PDBTitle: crystal structure of the type ix collagen nc2 heterotrimerization2 domain with a guest fragment a2a1a1 of type i collagen
11	c5ctdB_	 Alignment		96.4	15	PDB header: structural protein Chain: B; PDB Molecule: collagen alpha-2(i) chain, collagen alpha-2(ix) chain; PDBTitle: crystal structure of the type ix collagen nc2 heterotrimerization2 domain with a guest fragment a2a1a1 of type i collagen

12	c5ctiC_	 Alignment		96.2	13	PDB header: structural protein Chain: C: PDB Molecule: collagen alpha-1(i) chain,collagen alpha-3(ix) chain; PDBTitle: crystal structure of the type ix collagen nc2 heterotrimerization2 domain with a guest fragment a2a1a1 of type i collagen (native form)
13	c2klwA_	 Alignment		95.0	13	PDB header: de novo protein Chain: A: PDB Molecule: (pkg)10; PDBTitle: solution structure of an abc collagen heterotrimer reveals a2 single-register helix stabilized by electrostatic3 interactions
14	c1k6fB_	 Alignment		88.4	10	PDB header: structural protein Chain: B: PDB Molecule: collagen triple helix; PDBTitle: crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
15	c1k6fD_	 Alignment		88.4	10	PDB header: structural protein Chain: D: PDB Molecule: collagen triple helix; PDBTitle: crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
16	c1k6fA_	 Alignment		88.4	10	PDB header: structural protein Chain: A: PDB Molecule: collagen triple helix; PDBTitle: crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
17	c1k6fE_	 Alignment		88.4	10	PDB header: structural protein Chain: E: PDB Molecule: collagen triple helix; PDBTitle: crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
18	c1k6fC_	 Alignment		88.4	10	PDB header: structural protein Chain: C: PDB Molecule: collagen triple helix; PDBTitle: crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
19	c1k6fF_	 Alignment		88.4	10	PDB header: structural protein Chain: F: PDB Molecule: collagen triple helix; PDBTitle: crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
20	c2cuoC_	 Alignment		74.9	15	PDB header: structural protein Chain: C: PDB Molecule: collagen model peptide (pro-pro-gly)9; PDBTitle: collagen model peptide (pro-pro-gly)9
21	c2cuoF_	 Alignment	not modelled	74.9	15	PDB header: structural protein Chain: F: PDB Molecule: collagen model peptide (pro-pro-gly)9; PDBTitle: collagen model peptide (pro-pro-gly)9
22	c3a0mF_	 Alignment	not modelled	63.8	12	PDB header: structural protein Chain: F: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-ovg-(ppg)4, monoclinic, twinned crystal
23	c3ah9D_	 Alignment	not modelled	63.3	13	PDB header: structural protein Chain: D: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)9 at 1.1 a resolution
24	c3ah9B_	 Alignment	not modelled	63.1	15	PDB header: structural protein Chain: B: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)9 at 1.1 a resolution
25	c3ah9C_	 Alignment	not modelled	63.1	15	PDB header: structural protein Chain: C: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)9 at 1.1 a resolution
26	c3ah9E_	 Alignment	not modelled	63.1	15	PDB header: structural protein Chain: E: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)9 at 1.1 a resolution
27	c3ah9F_	 Alignment	not modelled	62.5	12	PDB header: structural protein Chain: F: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)9 at 1.1 a resolution
28	c3ah9A_	 Alignment	not modelled	61.8	13	PDB header: structural protein Chain: A: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)9 at 1.1 a resolution
29	c2cuoE_	 Alignment	not modelled	60.9	12	PDB header: structural protein Chain: E: PDB Molecule: collagen model peptide (pro-pro-gly)9;

						PDBTitle: collagen model peptide (pro-pro-gly)9
30	c2cuoA_	Alignment	not modelled	60.9	12	PDB header: structural protein Chain: A: PDB Molecule: collagen model peptide (pro-pro-gly)9; PDBTitle: collagen model peptide (pro-pro-gly)9
31	c2cuoB_	Alignment	not modelled	60.9	12	PDB header: structural protein Chain: B: PDB Molecule: collagen model peptide (pro-pro-gly)9; PDBTitle: collagen model peptide (pro-pro-gly)9
32	c2cuoD_	Alignment	not modelled	60.9	12	PDB header: structural protein Chain: D: PDB Molecule: collagen model peptide (pro-pro-gly)9; PDBTitle: collagen model peptide (pro-pro-gly)9
33	c2mqsd_	Alignment	not modelled	22.1	33	PDB header: hydrolase Chain: D: PDB Molecule: thp_t_chain; PDBTitle: transient collagen triple helix binding to a key metalloproteinase in2 invasion and development: spin labels to structure
34	c2mqsc_	Alignment	not modelled	19.3	33	PDB header: hydrolase Chain: C: PDB Molecule: thp_l_and_m_chain; PDBTitle: transient collagen triple helix binding to a key metalloproteinase in2 invasion and development: spin labels to structure
35	c2mqsb_	Alignment	not modelled	19.3	33	PDB header: hydrolase Chain: B: PDB Molecule: thp_l_and_m_chain; PDBTitle: transient collagen triple helix binding to a key metalloproteinase in2 invasion and development: spin labels to structure
36	c3a0mC_	Alignment	not modelled	18.0	15	PDB header: structural protein Chain: C: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-ovg-(ppg)4, monoclinic, twinned crystal
37	c4bklG_	Alignment	not modelled	8.9	13	PDB header: immune system Chain: G: PDB Molecule: j1 epitope; PDBTitle: crystal structure of the arthritogenic antibody m2139 (fab2 fragment) in complex with the triple-helical j1 peptide
38	c3abnA_	Alignment	not modelled	8.3	15	PDB header: structural protein Chain: A: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)4-hyp-asp-gly-(pro-pro-gly)4 at 1.022 a
39	c3admC_	Alignment	not modelled	7.8	20	PDB header: structural protein Chain: C: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)4-hyp-ser-gly-(pro-pro-gly)4
40	c4auoH_	Alignment	not modelled	7.8	27	PDB header: hydrolase/peptide Chain: H: PDB Molecule: triple-helical collagen peptide; PDBTitle: crystal structure of mmp-1(e200a) in complex with a triple-2 helical collagen peptide
41	c4auoE_	Alignment	not modelled	7.8	27	PDB header: hydrolase/peptide Chain: E: PDB Molecule: triple-helical collagen peptide; PDBTitle: crystal structure of mmp-1(e200a) in complex with a triple-2 helical collagen peptide
42	c3admB_	Alignment	not modelled	7.2	19	PDB header: structural protein Chain: B: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)4-hyp-ser-gly-(pro-pro-gly)4
43	c3admE_	Alignment	not modelled	7.2	19	PDB header: structural protein Chain: E: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)4-hyp-ser-gly-(pro-pro-gly)4
44	c3admF_	Alignment	not modelled	7.2	19	PDB header: structural protein Chain: F: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)4-hyp-ser-gly-(pro-pro-gly)4
45	c3admA_	Alignment	not modelled	7.2	19	PDB header: structural protein Chain: A: PDB Molecule: collagen-like peptide; PDBTitle: crystal structure of (pro-pro-gly)4-hyp-ser-gly-(pro-pro-gly)4
46	c4auoD_	Alignment	not modelled	6.6	27	PDB header: hydrolase/peptide Chain: D: PDB Molecule: triple-helical collagen peptide; PDBTitle: crystal structure of mmp-1(e200a) in complex with a triple-2 helical collagen peptide
47	c4auoG_	Alignment	not modelled	6.6	27	PDB header: hydrolase/peptide Chain: G: PDB Molecule: triple-helical collagen peptide; PDBTitle: crystal structure of mmp-1(e200a) in complex with a triple-2 helical collagen peptide
48	c4auoF_	Alignment	not modelled	6.6	27	PDB header: hydrolase/peptide Chain: F: PDB Molecule: triple-helical collagen peptide; PDBTitle: crystal structure of mmp-1(e200a) in complex with a triple-2 helical collagen peptide
49	c3a0mE_	Alignment	not modelled	6.5	20	PDB header: structural protein Chain: E: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-ovg-(ppg)4, monoclinic, twinned crystal
50	c3a0mB_	Alignment	not modelled	6.3	16	PDB header: structural protein Chain: B: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-ovg-(ppg)4, monoclinic, twinned crystal
51	c2d3fD_	Alignment	not modelled	5.7	19	PDB header: structural protein Chain: D: PDB Molecule: collagen model peptides (pro-pro-gly)4-pro-hyp- PDBTitle: crystal structures of collagen model peptides (pro-pro-gly)2 4-pro-hyp-gly-(pro-pro-gly)4
52	c1x1kC_	Alignment	not modelled	5.7	19	PDB header: structural protein Chain: C: PDB Molecule: host-guest peptide (pro-pro-gly)4-(pro-allohyp- PDBTitle: host-guest peptide (pro-pro-gly)4-(pro-allohyp-gly)-(pro-2 pro-gly)4
53	c1x1kB_	Alignment	not modelled	5.7	19	PDB header: structural protein Chain: B: PDB Molecule: host-guest peptide (pro-pro-gly)4-(pro-allohyp- PDBTitle: host-guest peptide (pro-pro-gly)4-(pro-allohyp-gly)-(pro-2 pro-gly)4

54	c2d3fF_	 Alignment	not modelled	5.7	19	PDB header: structural protein Chain: F: PDB Molecule: collagen model peptides (pro-pro-gly)4-pro-hyp- PDBTitle: crystal structures of collagen model peptides (pro-pro-gly)2 4-pro-hyp-gly-(pro-pro-gly)4
55	c2d3fE_	 Alignment	not modelled	5.7	19	PDB header: structural protein Chain: E: PDB Molecule: collagen model peptides (pro-pro-gly)4-pro-hyp- PDBTitle: crystal structures of collagen model peptides (pro-pro-gly)2 4-pro-hyp-gly-(pro-pro-gly)4
56	c1x1kA_	 Alignment	not modelled	5.7	19	PDB header: structural protein Chain: A: PDB Molecule: host-guest peptide (pro-pro-gly)4-(pro-allohyp- PDBTitle: host-guest peptide (pro-pro-gly)4-(pro-allohyp-gly)-(pro-2 pro-gly)4
57	c1x1kD_	 Alignment	not modelled	5.7	19	PDB header: structural protein Chain: D: PDB Molecule: host-guest peptide (pro-pro-gly)4-(pro-allohyp- PDBTitle: host-guest peptide (pro-pro-gly)4-(pro-allohyp-gly)-(pro-2 pro-gly)4
58	c4auoC_	 Alignment	not modelled	5.7	27	PDB header: hydrolase/peptide Chain: C: PDB Molecule: triple-helical collagen peptide; PDBTitle: crystal structure of mmp-1(e200a) in complex with a triple-2 helical collagen peptide
59	c3a08D_	 Alignment	not modelled	5.6	12	PDB header: structural protein Chain: D: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-oog-(ppg)4, monoclinic, twinned crystal
60	c2d3hD_	 Alignment	not modelled	5.6	12	PDB header: structural protein Chain: D: PDB Molecule: collagen model peptides (pro-pro-gly)4-hyp-hyp- PDBTitle: crystal structures of collagen model peptides (pro-pro-gly)2 4-hyp-hyp-gly-(pro-pro-gly)4
61	c3a19F_	 Alignment	not modelled	5.6	12	PDB header: structural protein Chain: F: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-oog-(ppg)4_h monoclinic, twinned crystal
62	c3a0mD_	 Alignment	not modelled	5.6	23	PDB header: structural protein Chain: D: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-ovg-(ppg)4, monoclinic, twinned crystal