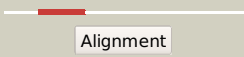

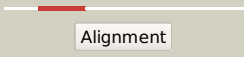

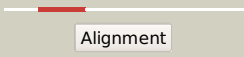

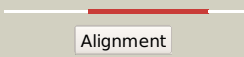

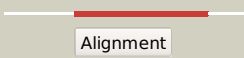
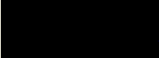
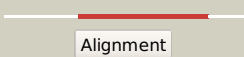

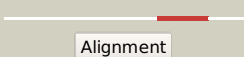
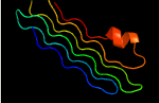
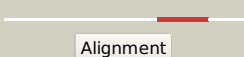



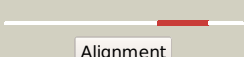
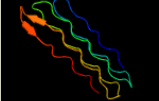
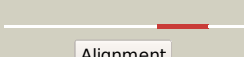
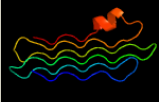
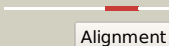

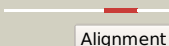

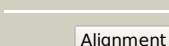



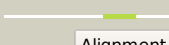

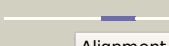

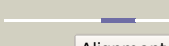





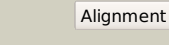
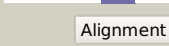
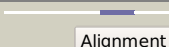
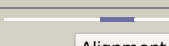


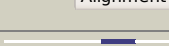
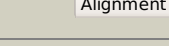
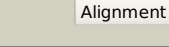


# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2396_(PE_PGRS41)_2692809_2693894
Date	Mon Aug 5 13:25:55 BST 2019
Unique Job ID	a46238a22af40cd5

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">d2g38a1</a>	 Alignment		99.9	31	<b>Fold:</b> Ferritin-like <b>Superfamily:</b> PE/PPE dimer-like <b>Family:</b> PE
2	<a href="#">c2g38A</a>	 Alignment		99.9	31	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A; <b>PDB Molecule:</b> pe family protein; <b>PDBTitle:</b> a pe/ppe protein complex from mycobacterium tuberculosis
3	<a href="#">c5xfsA</a>	 Alignment		99.9	51	<b>PDB header:</b> protein transport <b>Chain:</b> A; <b>PDB Molecule:</b> pe family protein pe8; <b>PDBTitle:</b> crystal structure of pe8-ppe15 in complex with espg5 from m.2 tuberculosis
4	<a href="#">c1ygvA</a>	 Alignment		98.9	28	<b>PDB header:</b> structural protein/contractile protein <b>Chain:</b> A; <b>PDB Molecule:</b> collagen i alpha 1; <b>PDBTitle:</b> the structure of collagen type i. single type i collagen2 molecule: rigid refinement
5	<a href="#">c3hqvB</a>	 Alignment		98.8	31	<b>PDB header:</b> structural protein, contractile protein <b>Chain:</b> B; <b>PDB Molecule:</b> collagen alpha-2(i) chain; <b>PDBTitle:</b> low resolution, molecular envelope structure of type i2 collagen in situ determined by fiber diffraction. single3 type i collagen molecule, rigid body refinement
6	<a href="#">c1y0fB</a>	 Alignment		98.0	32	<b>PDB header:</b> structural protein/contractile protein <b>Chain:</b> B; <b>PDB Molecule:</b> collagen i alpha 2; <b>PDBTitle:</b> the structure of collagen type i. single type i collagen2 molecule
7	<a href="#">c3boiB</a>	 Alignment		97.1	31	<b>PDB header:</b> antifreeze protein <b>Chain:</b> B; <b>PDB Molecule:</b> 6.5 kda glycine-rich antifreeze protein; <b>PDBTitle:</b> snow flea antifreeze protein racemate
8	<a href="#">c2pneA</a>	 Alignment		97.1	31	<b>PDB header:</b> antifreeze protein <b>Chain:</b> A; <b>PDB Molecule:</b> 6.5 kda glycine-rich antifreeze protein; <b>PDBTitle:</b> crystal structure of the snow flea antifreeze protein
9	<a href="#">c3boiA</a>	 Alignment		97.1	31	<b>PDB header:</b> antifreeze protein <b>Chain:</b> A; <b>PDB Molecule:</b> 6.5 kda glycine-rich antifreeze protein; <b>PDBTitle:</b> snow flea antifreeze protein racemate
10	<a href="#">c3bogA</a>	 Alignment		96.6	32	<b>PDB header:</b> antifreeze protein <b>Chain:</b> A; <b>PDB Molecule:</b> 6.5 kda glycine-rich antifreeze protein; <b>PDBTitle:</b> snow flea antifreeze protein quasi-racemate
11	<a href="#">c3bogB</a>	 Alignment		96.6	32	<b>PDB header:</b> antifreeze protein <b>Chain:</b> B; <b>PDB Molecule:</b> 6.5 kda glycine-rich antifreeze protein; <b>PDBTitle:</b> snow flea antifreeze protein quasi-racemate

12	<a href="#">c5ctdB_</a>	 Alignment		94.2	29	<b>PDB header:</b> structural protein <b>Chain:</b> B: <b>PDB Molecule:</b> collagen alpha-2(i) chain, collagen alpha-2(ix) chain; <b>PDBTitle:</b> crystal structure of the type ix collagen nc2 heterotrimerization2 domain with a guest fragment a2a1a1 of type i collagen
13	<a href="#">c5ctdA_</a>	 Alignment		94.1	33	<b>PDB header:</b> structural protein <b>Chain:</b> A: <b>PDB Molecule:</b> collagen alpha-1(i) chain, collagen alpha-1(ix) chain; <b>PDBTitle:</b> crystal structure of the type ix collagen nc2 heterotrimerization2 domain with a guest fragment a2a1a1 of type i collagen
14	<a href="#">c1nayC_</a>	 Alignment		93.9	23	<b>PDB header:</b> structural protein <b>Chain:</b> C: <b>PDB Molecule:</b> collagen-like peptide; <b>PDBTitle:</b> gpp-foldon:x-ray structure
15	<a href="#">c5ctiC_</a>	 Alignment		93.5	29	<b>PDB header:</b> structural protein <b>Chain:</b> C: <b>PDB Molecule:</b> collagen alpha-1(i) chain, collagen alpha-3(ix) chain; <b>PDBTitle:</b> crystal structure of the type ix collagen nc2 heterotrimerization2 domain with a guest fragment a2a1a1 of type i collagen (native form)
16	<a href="#">c2klwA_</a>	 Alignment		66.8	30	<b>PDB header:</b> de novo protein <b>Chain:</b> A: <b>PDB Molecule:</b> (pkg)10; <b>PDBTitle:</b> solution structure of an abc collagen heterotrimer reveals a2 single-register helix stabilized by electrostatic3 interactions
17	<a href="#">c1k6fB_</a>	 Alignment		15.6	28	<b>PDB header:</b> structural protein <b>Chain:</b> B: <b>PDB Molecule:</b> collagen triple helix; <b>PDBTitle:</b> crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
18	<a href="#">c1k6fD_</a>	 Alignment		15.6	28	<b>PDB header:</b> structural protein <b>Chain:</b> D: <b>PDB Molecule:</b> collagen triple helix; <b>PDBTitle:</b> crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
19	<a href="#">c1k6fC_</a>	 Alignment		15.6	28	<b>PDB header:</b> structural protein <b>Chain:</b> C: <b>PDB Molecule:</b> collagen triple helix; <b>PDBTitle:</b> crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
20	<a href="#">c1k6fF_</a>	 Alignment		15.6	28	<b>PDB header:</b> structural protein <b>Chain:</b> F: <b>PDB Molecule:</b> collagen triple helix; <b>PDBTitle:</b> crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
21	<a href="#">c1k6fA_</a>	 Alignment	not modelled	15.6	28	<b>PDB header:</b> structural protein <b>Chain:</b> A: <b>PDB Molecule:</b> collagen triple helix; <b>PDBTitle:</b> crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
22	<a href="#">c1k6fE_</a>	 Alignment	not modelled	15.6	28	<b>PDB header:</b> structural protein <b>Chain:</b> E: <b>PDB Molecule:</b> collagen triple helix; <b>PDBTitle:</b> crystal structure of the collagen triple helix model [(pro-pro-gly)2 10]3
23	<a href="#">c2cuoC_</a>	 Alignment	not modelled	13.2	35	<b>PDB header:</b> structural protein <b>Chain:</b> C: <b>PDB Molecule:</b> collagen model peptide (pro-pro-gly)9; <b>PDBTitle:</b> collagen model peptide (pro-pro-gly)9
24	<a href="#">c2cuoF_</a>	 Alignment	not modelled	13.2	35	<b>PDB header:</b> structural protein <b>Chain:</b> F: <b>PDB Molecule:</b> collagen model peptide (pro-pro-gly)9; <b>PDBTitle:</b> collagen model peptide (pro-pro-gly)9
25	<a href="#">c3ah9D_</a>	 Alignment	not modelled	9.3	36	<b>PDB header:</b> structural protein <b>Chain:</b> D: <b>PDB Molecule:</b> collagen-like peptide; <b>PDBTitle:</b> crystal structure of (pro-pro-gly)9 at 1.1 a resolution
26	<a href="#">c3ah9A_</a>	 Alignment	not modelled	8.3	33	<b>PDB header:</b> structural protein <b>Chain:</b> A: <b>PDB Molecule:</b> collagen-like peptide; <b>PDBTitle:</b> crystal structure of (pro-pro-gly)9 at 1.1 a resolution
27	<a href="#">c3ah9F_</a>	 Alignment	not modelled	8.3	33	<b>PDB header:</b> structural protein <b>Chain:</b> F: <b>PDB Molecule:</b> collagen-like peptide; <b>PDBTitle:</b> crystal structure of (pro-pro-gly)9 at 1.1 a resolution
28	<a href="#">c3ah9B_</a>	 Alignment	not modelled	6.2	32	<b>PDB header:</b> structural protein <b>Chain:</b> B: <b>PDB Molecule:</b> collagen-like peptide; <b>PDBTitle:</b> crystal structure of (pro-pro-gly)9 at 1.1 a resolution
29	<a href="#">c3ah9C_</a>	 Alignment	not modelled	6.2	32	<b>PDB header:</b> structural protein <b>Chain:</b> C: <b>PDB Molecule:</b> collagen-like peptide;

					<b>PDBTitle:</b> crystal structure of (pro-pro-gly)9 at 1.1 a resolution
30	<a href="#">c3ah9E_</a>	Alignment	not modelled	6.2	32 <b>PDB header:</b> structural protein <b>Chain:</b> E; <b>PDB Molecule:</b> collagen-like peptide; <b>PDBTitle:</b> crystal structure of (pro-pro-gly)9 at 1.1 a resolution
31	<a href="#">c2cuoA_</a>	Alignment	not modelled	5.0	31 <b>PDB header:</b> structural protein <b>Chain:</b> A; <b>PDB Molecule:</b> collagen model peptide (pro-pro-gly)9; <b>PDBTitle:</b> collagen model peptide (pro-pro-gly)9
32	<a href="#">c2cuoE_</a>	Alignment	not modelled	5.0	31 <b>PDB header:</b> structural protein <b>Chain:</b> E; <b>PDB Molecule:</b> collagen model peptide (pro-pro-gly)9; <b>PDBTitle:</b> collagen model peptide (pro-pro-gly)9
33	<a href="#">c2cuoB_</a>	Alignment	not modelled	5.0	31 <b>PDB header:</b> structural protein <b>Chain:</b> B; <b>PDB Molecule:</b> collagen model peptide (pro-pro-gly)9; <b>PDBTitle:</b> collagen model peptide (pro-pro-gly)9