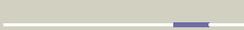
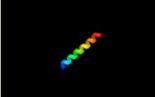
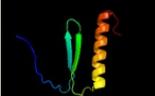
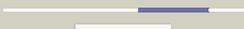
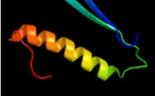
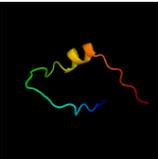
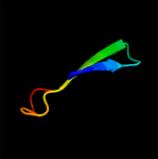
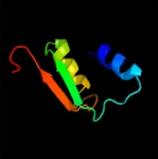
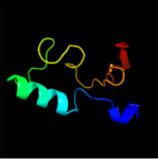


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD1528c_papA4_1728959_1729456
 Date Fri Aug 2 13:30:11 BST 2019
 Unique Job ID 8281f30fa56ee08d

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6aefB_	 Alignment		98.3	36	PDB header: transferase Chain: B; PDB Molecule: polyketide synthase associated protein papa2; PDBTitle: papa2 acyl transferase
2	c6ehrF_	 Alignment		70.9	7	PDB header: signaling protein Chain: F; PDB Molecule: ras-related gtp-binding protein a; PDBTitle: the crystal structure of the human lamtor-raga ctd-ragc ctd complex
3	c2w91A_	 Alignment		36.6	38	PDB header: hydrolase Chain: A; PDB Molecule: endo-beta-n-acetylglucosaminidase d; PDBTitle: structure of a streptococcus pneumoniae family 85 glycoside2 hydrolase, endo-d.
4	c3gdbA_	 Alignment		34.9	38	PDB header: hydrolase Chain: A; PDB Molecule: putative uncharacterized protein spr0440; PDBTitle: crystal structure of spr0440 glycoside hydrolase domain,2 endo-d from streptococcus pneumoniae r6
5	d3e9va1	 Alignment		20.5	18	Fold: BTG domain-like Superfamily: BTG domain-like Family: BTG domain-like
6	c3fhaD_	 Alignment		17.9	60	PDB header: hydrolase Chain: D; PDB Molecule: endo-beta-n-acetylglucosaminidase; PDBTitle: structure of endo-beta-n-acetylglucosaminidase a
7	c5y88V_	 Alignment		16.9	23	PDB header: splicing Chain: V; PDB Molecule: pre-mrna-splicing factor ntr2; PDBTitle: cryo-em structure of the intron-lariat spliceosome ready for2 disassembly from s.cerevisiae at 3.5 angstrom
8	c4gu4B_	 Alignment		16.3	17	PDB header: viral protein Chain: B; PDB Molecule: outer capsid protein sigma-1; PDBTitle: crystal structure of the t11 reovirus attachment protein sigma1 in2 complex with alpha-2,3-sialyllactose
9	c5dijA_	 Alignment		16.3	6	PDB header: unknown function Chain: A; PDB Molecule: tqaa; PDBTitle: the crystal structure of ct
10	c3rlcA_	 Alignment		13.8	23	PDB header: structural protein Chain: A; PDB Molecule: a1 protein; PDBTitle: crystal structure of the read-through domain from bacteriophage qbeta2 a1 protein, hexagonal crystal form
11	c5t3eA_	 Alignment		12.9	9	PDB header: ligase Chain: A; PDB Molecule: bacillamide synthetase heterocyclization domain; PDBTitle: crystal structure of a nonribosomal peptide synthetase2 heterocyclization domain.

12	d1kke2	Alignment		11.7	30	Fold: Virus attachment protein globular domain Superfamily: Virus attachment protein globular domain Family: Reovirus attachment protein sigma 1 head domain
13	d2z15a1	Alignment		10.9	21	Fold: BTG domain-like Superfamily: BTG domain-like Family: BTG domain-like
14	c4chjA_	Alignment		10.6	29	PDB header: cell cycle Chain: A: PDB Molecule: imc sub-compartment protein isp3; PDBTitle: structure of inner membrane complex (imc) sub-compartment2 protein 3 (isp3) from toxoplasma gondii
15	d1r46a2	Alignment		10.0	16	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: Amylase, catalytic domain
16	c4cu9A_	Alignment		9.8	14	PDB header: hydrolase Chain: A: PDB Molecule: beta-galactosidase; PDBTitle: unravelling the multiple functions of the architecturally2 intricate streptococcus pneumoniae beta-galactosidase, bgaa
17	c2n8kA_	Alignment		9.6	26	PDB header: toxin Chain: A: PDB Molecule: u33-theraphotoxin-cg1b; PDBTitle: chemical shift assignments and structure determination for spider2 toxin, u33-theraphotoxin-cg1c
18	c3kwrA_	Alignment		8.6	25	PDB header: rna binding protein Chain: A: PDB Molecule: putative rna-binding protein; PDBTitle: crystal structure of putative rna-binding protein (np_785364.1) from2 lactobacillus plantarum at 1.45 a resolution
19	d1a4ia1	Alignment		8.6	25	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Aminoacid dehydrogenase-like, C-terminal domain
20	c5td6A_	Alignment		8.5	9	PDB header: rna binding protein Chain: A: PDB Molecule: fog-3 protein; PDBTitle: c. elegans fog-3 btg/tob domain - h47n, c117a
21	c1kkeA_	Alignment	not modelled	8.2	30	PDB header: viral protein Chain: A: PDB Molecule: sigma 1 protein; PDBTitle: crystal structure of reovirus attachment protein sigma12 trimer
22	c6av8A_	Alignment	not modelled	7.8	80	PDB header: toxin Chain: A: PDB Molecule: u5-theraphotoxin-hs1b 1; PDBTitle: exploring cystine dense peptide space to open a unique molecular2 toolbox
23	c2aapA_	Alignment	not modelled	7.5	80	PDB header: toxin Chain: A: PDB Molecule: jingzhaotoxin-vii; PDBTitle: solution structure of jingzhaotoxin-vii
24	c3qm1C_	Alignment	not modelled	7.5	26	PDB header: chaperone/protein transport Chain: C: PDB Molecule: nucleotide exchange factor sil1; PDBTitle: the structural analysis of sil1-bip complex reveals the mechanism for2 sil1 to function as a novel nucleotide exchange factor
25	c3ushB_	Alignment	not modelled	7.2	35	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of the q2s0r5 protein from salinibacter ruber,2 northeast structural genomics consortium target srr207
26	c4chmB_	Alignment	not modelled	7.0	12	PDB header: cell cycle Chain: B: PDB Molecule: imc sub-compartment protein isp1; PDBTitle: structure of inner membrane complex (imc) sub-compartment protein 12 (isp1) from toxoplasma gondii
27	c3i07B_	Alignment	not modelled	6.4	21	PDB header: oxidoreductase,hydrolase Chain: B: PDB Molecule: bifunctional protein fold; PDBTitle: methylenetetrahydrofolate dehydrogenase/methenyltetrahydrofolate2 cyclohydrolase, putative bifunctional protein fold from francisella3 tularensis.
28	c3s6xA_	Alignment	not modelled	6.3	30	PDB header: viral protein Chain: A: PDB Molecule: outer capsid protein sigma-1; PDBTitle: structure of reovirus attachment protein sigma1 in

						complex with alpha-2,3-sialyllactose
29	c1a4iB_	Alignment	not modelled	6.0	24	PDB header: oxidoreductase Chain: B: PDB Molecule: methylenetetrahydrofolate dehydrogenase / PDBTitle: human tetrahydrofolate dehydrogenase / cyclohydrolase
30	c5oltA_	Alignment	not modelled	6.0	44	PDB header: transferase Chain: A: PDB Molecule: cellulose biosynthesis protein bcsG; PDBTitle: crystal structure of the extramembrane domain of the cellulose2 biosynthetic protein bcsG from salmonella typhimurium
31	d1a6qa1	Alignment	not modelled	5.9	38	Fold: Another 3-helical bundle Superfamily: Protein serine/threonine phosphatase 2C, C-terminal domain Family: Protein serine/threonine phosphatase 2C, C-terminal domain
32	c2lq3A_	Alignment	not modelled	5.4	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution nmr structure of syc0711_d from synechococcus sp., northeast2 structural genomics consortium (nesg) target snr212
33	c3e2sA_	Alignment	not modelled	5.3	15	PDB header: oxidoreductase Chain: A: PDB Molecule: proline dehydrogenase; PDBTitle: crystal structure reduced puta86-630 mutant y540s complexed with l-2 proline
34	c5yvua_	Alignment	not modelled	5.3	38	PDB header: viral protein Chain: A: PDB Molecule: genome polyprotein; PDBTitle: crystal structures of unlinked full length ns3 from dengue virus2 provide insights into dynamics of protease domain
35	d1p42a1	Alignment	not modelled	5.3	28	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: UDP-3-O-[3-hydroxymyristoyl] N-acetylglucosamine deacetylase LpxC
36	c2n59A_	Alignment	not modelled	5.3	67	PDB header: unknown function Chain: A: PDB Molecule: putative uncharacterized protein csgh; PDBTitle: solution structure of r. palustris csgh
37	c4iohA_	Alignment	not modelled	5.1	25	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: tl11086 protein; PDBTitle: crystal structure of the tl11086 protein from thermosynechococcus2 elongatus, northeast structural genomics consortium target ter258
38	c5i8iD_	Alignment	not modelled	5.1	22	PDB header: hydrolase Chain: D: PDB Molecule: urea amidolyase; PDBTitle: crystal structure of the k. lactis urea amidolyase
39	d1o5wa2	Alignment	not modelled	5.0	13	Fold: FAD-linked reductases, C-terminal domain Superfamily: FAD-linked reductases, C-terminal domain Family: L-aminoacid/polyamine oxidase
40	c2k1kA_	Alignment	not modelled	5.0	100	PDB header: signaling protein Chain: A: PDB Molecule: ephrin type-a receptor 1; PDBTitle: nmr structures of dimeric transmembrane domain of the2 receptor tyrosine kinase epha1 in lipid bicelles at ph 4.3
41	c2k1kB_	Alignment	not modelled	5.0	100	PDB header: signaling protein Chain: B: PDB Molecule: ephrin type-a receptor 1; PDBTitle: nmr structures of dimeric transmembrane domain of the2 receptor tyrosine kinase epha1 in lipid bicelles at ph 4.3
42	c2k1lA_	Alignment	not modelled	5.0	100	PDB header: signaling protein Chain: A: PDB Molecule: ephrin type-a receptor 1; PDBTitle: nmr structures of dimeric transmembrane domain of the2 receptor tyrosine kinase epha1 in lipid bicelles at ph 6.3