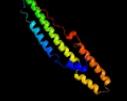
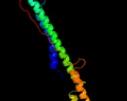
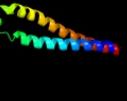
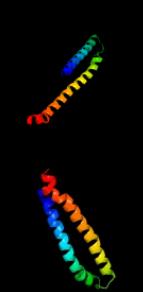
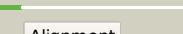
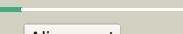
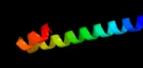
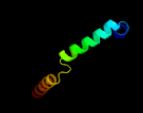
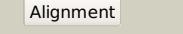
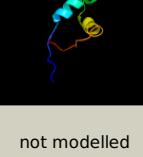
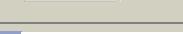
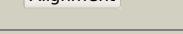
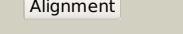
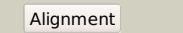
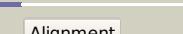
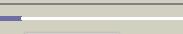
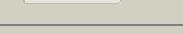


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD1917c_(PPE34)_2162939_2167318
Date	Fri Aug 2 13:30:53 BST 2019
Unique Job ID	7eda22ad27de1089

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5xfsB_			100.0	51	PDB header: protein transport Chain: B; PDB Molecule: ppe family protein ppe15; PDBTitle: crystal structure of pe8-ppe15 in complex with espg5 from m.2 tuberculosis
2	c2g38B_			100.0	34	PDB header: structural genomics, unknown function Chain: B; PDB Molecule: ppe family protein; PDBTitle: a pe/ppe protein complex from mycobacterium tuberculosis
3	d2g38b1			100.0	34	Fold: Ferritin-like Superfamily: PE/PPE dimer-like Family: PPE
4	c4xy3A_			100.0	19	PDB header: protein transport Chain: A; PDB Molecule: esx-1 secretion-associated protein espb; PDBTitle: structure of esx-1 secreted protein espb
5	c4wj2A_			96.7	21	PDB header: unknown function Chain: A; PDB Molecule: antigen mtb48; PDBTitle: mycobacterial protein
6	c4iogD_			95.7	16	PDB header: unknown function Chain: D; PDB Molecule: secreted protein esxb; PDBTitle: the crystal structure of a secreted protein esxb (wild-type, in p212 space group) from bacillus anthracis str. sterne
7	c2vs0B_			95.5	9	PDB header: cell invasion Chain: B; PDB Molecule: virulence factor esxa; PDBTitle: structural analysis of homodimeric staphylococcal aureus2 virulence factor esxa
8	c3gvmaA_			94.4	11	PDB header: viral protein Chain: A; PDB Molecule: putative uncharacterized protein sag1039; PDBTitle: structure of the homodimeric wxxg-100 family protein from streptococcus2 agalactiae
9	c3zbhC_			94.2	16	PDB header: unknown function Chain: C; PDB Molecule: esxa; PDBTitle: geobacillus thermonitirificans esxa crystal form i
10	d1wa8a1			92.4	15	Fold: Ferritin-like Superfamily: EsxAB dimer-like Family: ESAT-6 like
11	c3jywF_			69.2	43	PDB header: ribosome Chain: F; PDB Molecule: 60s ribosomal protein l7(a); PDBTitle: structure of the 60s proteins for eukaryotic ribosome based on cryo-em2 map of thermomyces lanuginosus ribosome at 8.9a resolution

12	c4lwsA		Alignment		65.7	19	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: esxa : esxb (semet) hetero-dimer from thermomonospora curvata
13	d1wa8b1		Alignment		58.8	16	Fold: Ferritin-like Superfamily: EsxAB dimer-like Family: ESAT-6 like
14	c4i0xA		Alignment		47.6	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: esat-6-like protein mab_3112; PDBTitle: crystal structure of the mycobacterium abscessus esxef (mab_3112-2 mab_3113) complex
15	c2vsnB		Alignment		45.7	12	PDB header: transferase Chain: B: PDB Molecule: xcogt; PDBTitle: structure and topological arrangement of an o-glcnac2 transferase homolog: insight into molecular control of3 intracellular glycosylation
16	c4lwsB		Alignment		37.8	9	PDB header: unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: esxa : esxb (semet) hetero-dimer from thermomonospora curvata
17	c2kg7B		Alignment		31.5	16	PDB header: unknown function Chain: B: PDB Molecule: esat-6-like protein esxh; PDBTitle: structure and features of the complex formed by the tuberculosis2 virulence factors rv0287 and rv0288
18	c4bgoA		Alignment		29.0	12	PDB header: hydrolase Chain: A: PDB Molecule: efem m75 peptidase; PDBTitle: structural and functional role of the imelysin-like protein2 efem from pseudomonas syringae pv. syringae and3 implications in bacterial iron transport
19	c5djsA		Alignment		24.0	18	PDB header: transferase Chain: A: PDB Molecule: tetratricopeptide tpr_2 repeat protein; PDBTitle: thermobaculum terrenum o-glcnac transferase mutant - k341m
20	c5uz9B		Alignment		21.5	21	PDB header: immune system/rna Chain: B: PDB Molecule: crispr-associated protein csy2; PDBTitle: cryo em structure of anti-crisprs, acrf1 and acrf2, bound to type i-f2 crRNA-guided crispr surveillance complex
21	c2lyyB		Alignment	not modelled	20.5	18	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: nmr structure of the protein nb7890a from shewanella sp
22	d1ui5a2		Alignment	not modelled	20.0	20	Fold: Tetracyclin repressor-like, C-terminal domain Superfamily: Tetracyclin repressor-like, C-terminal domain Family: Tetracyclin repressor-like, C-terminal domain
23	c3pe3D		Alignment	not modelled	19.9	14	PDB header: transferase Chain: D: PDB Molecule: udp-n-acetylglucosamine-peptide n-peptidyl transferase PDBTitle: structure of human o-glcnac transferase and its complex with a peptide2 substrate
24	c3at7B		Alignment	not modelled	19.9	9	PDB header: structural protein Chain: B: PDB Molecule: alginate-binding flagellin; PDBTitle: crystal structure of bacterial cell-surface alginate-binding protein2 alp7
25	c4lrvL		Alignment	not modelled	18.2	40	PDB header: dna binding protein Chain: L: PDB Molecule: dna sulfur modification protein dnde; PDBTitle: crystal structure of dnde from escherichia coli b7a involved in dna2 phosphothioation modification
26	c3fpjA		Alignment	not modelled	17.6	11	PDB header: biosynthetic protein, transferase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of e81q mutant of mtnas in complex with s-2 adenosylmethionine
27	c6ghrF		Alignment	not modelled	17.1	53	PDB header: photosynthesis Chain: F: PDB Molecule: cp12 polypeptide; PDBTitle: cyanobacterial gapdh with full-length cp12
28	c3lhoA		Alignment	not modelled	16.2	28	PDB header: hydrolase Chain: A: PDB Molecule: putative hydrolase; PDBTitle: crystal structure of putative hydrolase (yp_751971.1) from shewanella2 frigidimarina ncimb 400 at 1.80 a resolution PDB header: hydrolase

29	c4jzaB	Alignment	not modelled	15.9	58	Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a legionella phosphoinositide phosphatase:2 insights into lipid metabolism in pathogen host interaction
30	d1fnnda2	Alignment	not modelled	15.9	26	Fold: Ferrodoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferrodoxin reductase-like, C-terminal NADP-linked domain Family: Reductases
31	d2a15a1	Alignment	not modelled	15.1	24	Fold: Cystatin-like Superfamily: NTF2-like Family: Ketosteroid isomerase-like
32	d1knca	Alignment	not modelled	14.5	19	Fold: AhpD-like Superfamily: AhpD-like Family: AhpD
33	d1rzoa	Alignment	not modelled	13.8	10	Fold: Ribosome inactivating proteins (RIP) Superfamily: Ribosome inactivating proteins (RIP) Family: Plant cytotoxins
34	c3kb4D	Alignment	not modelled	13.2	14	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: alr8543 protein; PDBTitle: crystal structure of the alr8543 protein in complex with2 geranylgeranyl monophosphate and magnesium ion from nostoc sp. pcc3 7120, northeast structural genomics consortium target nsr141
35	c4fbaC	Alignment	not modelled	13.2	25	PDB header: hydrolase Chain: C: PDB Molecule: protein synthesis inhibitor i; PDBTitle: structure of mutant rip from barley seeds in complex with adenine
36	d1hi9a	Alignment	not modelled	12.4	26	Fold: Dipeptide transport protein Superfamily: Dipeptide transport protein Family: Dipeptide transport protein
37	d2fr1a1	Alignment	not modelled	12.0	17	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Tyrosine-dependent oxidoreductases
38	d1rp4a	Alignment	not modelled	11.6	21	Fold: ERO1-like Superfamily: ERO1-like Family: ERO1-like
39	c3ahrA	Alignment	not modelled	11.1	28	PDB header: oxidoreductase Chain: A: PDB Molecule: ero1-like protein alpha; PDBTitle: inactive human ero1
40	c2pqjC	Alignment	not modelled	11.0	24	PDB header: hydrolase Chain: C: PDB Molecule: ribosome-inactivating protein 3; PDBTitle: crystal structure of active ribosome inactivating protein from maize2 (b-32), complex with adenine
41	c4o94B	Alignment	not modelled	10.4	15	PDB header: transport protein Chain: B: PDB Molecule: trap dicarboxylate transporter dctp subunit; PDBTitle: crystal structure of a trap periplasmic solute binding protein from2 rhodopseudomonas palustris ha2 (rpb_3329), target efi-510223, with3 bound succinate
42	c3q3hA	Alignment	not modelled	10.3	10	PDB header: transferase Chain: A: PDB Molecule: hmw1c-like glycosyltransferase; PDBTitle: crystal structure of the actinobacillus pleuropneumoniae hmw1c2 glycosyltransferase in complex with udp-glc
43	d1uq5a	Alignment	not modelled	10.2	10	Fold: Ribosome inactivating proteins (RIP) Superfamily: Ribosome inactivating proteins (RIP) Family: Plant cytotoxins
44	d1f20a2	Alignment	not modelled	9.9	26	Fold: Ferrodoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferrodoxin reductase-like, C-terminal NADP-linked domain Family: NADPH-cytochrome p450 reductase-like
45	c5frgA	Alignment	not modelled	9.8	75	PDB header: protein binding Chain: A: PDB Molecule: formin-binding protein 1-like; PDBTitle: the nmr structure of the cdc42-interacting region of tocal
46	d1yf8a1	Alignment	not modelled	9.7	13	Fold: Ribosome inactivating proteins (RIP) Superfamily: Ribosome inactivating proteins (RIP) Family: Plant cytotoxins
47	c4co6A	Alignment	not modelled	9.6	37	PDB header: chaperone Chain: A: PDB Molecule: nucleoprotein; PDBTitle: crystal structure of the nipah virus rna free2 nucleoprotein-phosphoprotein complex
48	c4rqoB	Alignment	not modelled	9.6	25	PDB header: lyase Chain: B: PDB Molecule: l-serine dehydratase; PDBTitle: crystal structure of l-serine dehydratase from legionella pneumophila
49	c1tr1B	Alignment	not modelled	9.5	28	PDB header: hydrolase (metalloprotease) Chain: B: PDB Molecule: thermolysin fragment 255 - 316; PDBTitle: nmr solution structure of the c-terminal fragment 255-3162 of thermolysin: a dimer formed by subunits having the3 native structure
50	d1g03a	Alignment	not modelled	9.2	19	Fold: Retrovirus capsid protein, N-terminal core domain Superfamily: Retrovirus capsid protein, N-terminal core domain Family: Retrovirus capsid protein, N-terminal core domain
51	d1vefa1	Alignment	not modelled	9.1	16	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: GABA-aminotransferase-like
52	c1bkvA	Alignment	not modelled	9.0	38	PDB header: structural protein Chain: A: PDB Molecule: t3-785; PDBTitle: collagen
53	d1umka2	Alignment	not modelled	8.9	21	Fold: Ferrodoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferrodoxin reductase-like, C-terminal NADP-linked domain Family: Reductases
54	c5ddwD	Alignment	not modelled	8.8	22	PDB header: transferase Chain: D: PDB Molecule: crmg; PDBTitle: crystal structure of aminotransferase crmg from

						actinoalloteichus sp.2 wh1-2216-6 in complex with the pmp external aldimine adduct with 3 caerulomycin m
55	d3cx5d1	Alignment	not modelled	8.6	35	Fold: Cytochrome c Superfamily: Cytochrome c Family: Cytochrome bc1 domain
56	d1byra_	Alignment	not modelled	8.6	22	Fold: Phospholipase D/nuclease Superfamily: Phospholipase D/nuclease Family: Nuclease
57	d1oc7a_	Alignment	not modelled	8.6	14	Fold: 7-stranded beta/alpha barrel Superfamily: Glycosyl hydrolases family 6, cellulases Family: Glycosyl hydrolases family 6, cellulases
58	d1spgb_	Alignment	not modelled	8.5	29	Fold: Globin-like Superfamily: Globin-like Family: Globins
59	c1qcrD_	Alignment	not modelled	8.5	30	PDB header: oxidoreductase Chain: D: PDB Molecule: ubiquinol cytochrome c oxidoreductase; PDBTitle: crystal structure of bovine mitochondrial cytochrome bc12 complex, alpha carbon atoms only
60	c1bkvC_	Alignment	not modelled	8.3	38	PDB header: structural protein Chain: C: PDB Molecule: t3-785; PDBTitle: collagen
61	c1bkvB_	Alignment	not modelled	8.3	38	PDB header: structural protein Chain: B: PDB Molecule: t3-785; PDBTitle: collagen
62	c3fyqA_	Alignment	not modelled	8.3	21	PDB header: cell adhesion Chain: A: PDB Molecule: cg6831-pa (talin); PDBTitle: structure of drosophila melanogaster talin ibs2 domain (residues 1981-2 2168)
63	c3vohA_	Alignment	not modelled	8.3	18	PDB header: hydrolase Chain: A: PDB Molecule: cellobiohydrolase; PDBTitle: cccel6a catalytic domain complexed with cellobiose
64	c3bkhA_	Alignment	not modelled	8.2	20	PDB header: hydrolase Chain: A: PDB Molecule: lytic transglycosylase; PDBTitle: crystal structure of the bacteriophage phikz lytic2 transglycosylase, gp144
65	d1ppjd1	Alignment	not modelled	8.1	30	Fold: Cytochrome c Superfamily: Cytochrome c Family: Cytochrome bc1 domain
66	d1luaa2	Alignment	not modelled	7.9	36	Fold: Aminoacid dehydrogenase-like, N-terminal domain Superfamily: Aminoacid dehydrogenase-like, N-terminal domain Family: Methylene-tetrahydromethanopterin dehydrogenase
67	c1sseB_	Alignment	not modelled	7.9	18	PDB header: transcription activator Chain: B: PDB Molecule: ap-1 like transcription factor yap1; PDBTitle: solution structure of the oxidized form of the yap1 redox2 domain
68	c2pheC_	Alignment	not modelled	7.9	31	PDB header: transcription Chain: C: PDB Molecule: alpha trans-inducing protein; PDBTitle: model for vp16 binding to pc4
69	c6efvA_	Alignment	not modelled	7.9	28	PDB header: flavoprotein Chain: A: PDB Molecule: sulfite reductase [nadph] flavoprotein alpha-component; PDBTitle: the nadph-dependent sulfite reductase flavoprotein adopts an extended2 conformation that is unique to this flavin reductase
70	c6fhjA_	Alignment	not modelled	7.9	20	PDB header: hydrolase Chain: A: PDB Molecule: protein,protein; PDBTitle: structural dynamics and catalytic properties of a multi-modular2 xanthanase, native.
71	c6rdf7_	Alignment	not modelled	7.8	30	PDB header: proton transport Chain: 7: PDB Molecule: mitochondrial atp synthase associated protein asa7; PDBTitle: cryoem structure of polytomella f-atp synthase, primary rotary state2 3, monomer-masked refinement
72	c4xjnM_	Alignment	not modelled	7.7	32	PDB header: viral protein/rna Chain: M: PDB Molecule: nucleocapsid; PDBTitle: structure of the parainfluenza virus 5 nucleocapsid-rna complex: an2 insight into paramyxovirus polymerase activity
73	c5lzkB_	Alignment	not modelled	7.6	6	PDB header: structural genomics Chain: B: PDB Molecule: protein fam83b; PDBTitle: structure of the domain of unknown function duf1669 from human fam83b
74	c2phgB_	Alignment	not modelled	7.4	33	PDB header: transcription Chain: B: PDB Molecule: alpha trans-inducing protein; PDBTitle: model for vp16 binding to tfiib
75	d1dwna_	Alignment	not modelled	7.4	38	Fold: RNA bacteriophage capsid protein Superfamily: RNA bacteriophage capsid protein Family: RNA bacteriophage capsid protein
76	c3a64A_	Alignment	not modelled	7.1	17	PDB header: hydrolase Chain: A: PDB Molecule: cellobiohydrolase; PDBTitle: crystal structure of cccel6c, a glycoside hydrolase family 62 enzyme, from coprinopsis cinerea
77	c5jn6A_	Alignment	not modelled	7.1	67	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: the nmr solution structure of rpa3313
78	c5cgaC_	Alignment	not modelled	7.0	33	PDB header: transferase Chain: C: PDB Molecule: hydroxyethylthiazole kinase; PDBTitle: structure of hydroxyethylthiazole kinase thim from staphylococcus aureus in complex with substrate analog 2-(1,3,5-trimethyl-1H-3 pyrazole-4-yl)ethanol
79	c5e4vA_	Alignment	not modelled	7.0	32	PDB header: viral protein Chain: A: PDB Molecule: nucleoprotein,phosphoprotein; PDBTitle: crystal structure of measles n0-p complex
						PDB header: hydrolase

80	c3ktzA	Alignment	not modelled	7.0	15	Chain: A: PDB Molecule: ribosome-inactivating protein gelonin; PDBTitle: structure of gap31
81	d1ndha2	Alignment	not modelled	6.9	22	Fold: Ferrodoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferrodoxin reductase-like, C-terminal NADP-linked domain Family: Reductases PDB header: hydrolase
82	c6fhna	Alignment	not modelled	6.9	20	Chain: A: PDB Molecule: protein; PDBTitle: structural dynamics and catalytic properties of a multi-modular2 xanthanase (pt derivative)
83	c3i5tB	Alignment	not modelled	6.9	18	PDB header: transferase Chain: B: PDB Molecule: aminotransferase; PDBTitle: crystal structure of aminotransferase prk07036 from rhodobacter2 sphaeroides kd131
84	c2k2uB	Alignment	not modelled	6.8	33	PDB header: transcription Chain: B: PDB Molecule: alpha trans-inducing protein; PDBTitle: nmr structure of the complex between tfb1 subunit of tfih2 and the activation domain of vp16
85	c3fy6A	Alignment	not modelled	6.8	67	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: integron cassette protein; PDBTitle: structure from the mobile metagenome of v. cholerae. integron cassette2 protein vch_cass3
86	d1x7da	Alignment	not modelled	6.8	13	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Ornithine cyclodeaminase-like
87	c1tlIA	Alignment	not modelled	6.7	23	PDB header: oxidoreductase Chain: A: PDB Molecule: nitric-oxide synthase, brain; PDBTitle: crystal structure of rat neuronal nitric-oxide synthase2 reductase module at 2.3 Å resolution.
88	c6m9sc	Alignment	not modelled	6.6	12	PDB header: oxidoreductase Chain: C: PDB Molecule: sznf; PDBTitle: crystal structure of semet sznf from streptomyces achromogenes var.2 streptozotocins nrrl 2697
89	d1gtma1	Alignment	not modelled	6.5	44	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: DnaQ-like 3'-5' exonuclease
90	d2c7fa1	Alignment	not modelled	6.5	21	Fold: Glycosyl hydrolase domain Superfamily: Glycosyl hydrolase domain Family: Composite domain of glycosyl hydrolase families 5, 30, 39 and 51
91	c4nn3A	Alignment	not modelled	6.5	11	PDB header: transport protein Chain: A: PDB Molecule: trap dicarboxylate transporter, dctp subunit; PDBTitle: crystal structure of a trap periplasmic solute binding protein from2 desulfovibrio salexigens (desal_2161), target efi-510109, with bound3 orotic acid
92	c3b5oA	Alignment	not modelled	6.4	36	PDB header: oxidoreductase Chain: A: PDB Molecule: cadd-like protein of unknown function; PDBTitle: crystal structure of a cadd-like protein of unknown function2 (npun_f6505) from nostoc punctiforme pcc 73102 at 1.35 Å resolution
93	c6cboB	Alignment	not modelled	6.4	16	PDB header: transferase Chain: B: PDB Molecule: c-6' aminotransferase; PDBTitle: x-ray structure of genb1 from micromonospora echinospora in complex2 with neamine and plp (as the external aldimine)
94	c1zrtD	Alignment	not modelled	6.3	39	PDB header: oxidoreductase/metal transport Chain: D: PDB Molecule: cytochrome c1; PDBTitle: rhodobacter capsulatus cytochrome bc1 complex with2 stigmatellin bound
95	d1abra	Alignment	not modelled	6.3	19	Fold: Ribosome inactivating proteins (RIP) Superfamily: Ribosome inactivating proteins (RIP) Family: Plant cytotoxins
96	c2ke4A	Alignment	not modelled	6.3	75	PDB header: membrane protein Chain: A: PDB Molecule: cdc42-interacting protein 4; PDBTitle: the nmr structure of the tc10 and cdc42 interacting domain2 of cip4
97	c2bn5B	Alignment	not modelled	6.2	63	PDB header: nuclear protein Chain: B: PDB Molecule: u1 small nuclear ribonucleoprotein 70 kda; PDBTitle: p-element somatic inhibitor protein complex with u1-70k2 proline-rich peptide
98	d1b93a	Alignment	not modelled	6.1	29	Fold: Methylglyoxal synthase-like Superfamily: Methylglyoxal synthase-like Family: Methylglyoxal synthase, MgsA
99	c6ajrA	Alignment	not modelled	6.1	18	PDB header: dna binding protein Chain: A: PDB Molecule: uracil dna glycosylase superfamily protein; PDBTitle: complex form of uracil dna glycosylase x and uracil