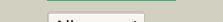
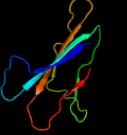
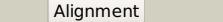
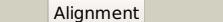
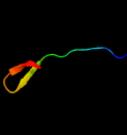
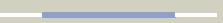
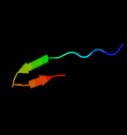
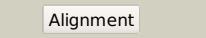
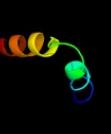
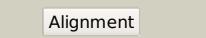
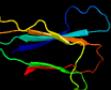
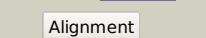
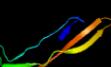
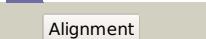
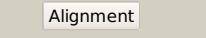
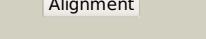
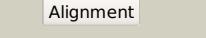
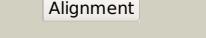
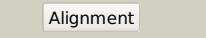
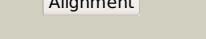


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD0506_(mmpS2)_596762_597205
Date	Fri Jul 26 01:50:05 BST 2019
Unique Job ID	57f9effbfe0a23e4

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2lw3A	 Alignment		100.0	44	PDB header: membrane protein Chain: A: PDB Molecule: putative membrane protein mmpps4; PDBTitle: solution structure of the soluble domain of mmpps4 from mycobacterium2 tuberculosis
2	d1fv1b1	 Alignment		45.6	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
3	c5lnkm	 Alignment		40.8	24	PDB header: oxidoreductase Chain: M: PDB Molecule: mitochondrial complex i, nd4 subunit; PDBTitle: entire ovine respiratory complex i
4	d1kona	 Alignment		34.9	38	Fold: YebC-like Superfamily: YebC-like Family: YebC-like
5	d1d5mb1	 Alignment		32.5	11	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
6	c3osvC	 Alignment		32.5	5	PDB header: structural protein Chain: C: PDB Molecule: flagellar basal-body rod modification protein flgd; PDBTitle: the crysal structure of flgd from p. aeruginosa
7	c2kvzA	 Alignment		31.0	28	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: ispe; PDBTitle: structure of residues 161-235 of putative peptidoglycan binding 2 protein lmo0835 from listeria monocytogenes: target lmr64b of the3 northeast structural genomics consortium
8	d1lfpa	 Alignment		28.4	31	Fold: YebC-like Superfamily: YebC-like Family: YebC-like
9	c4f3qA	 Alignment		26.4	39	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulatory protein cbu_1566; PDBTitle: structure of a yebc family protein (cbu_1566) from coxiella burnetii
10	d1muja1	 Alignment		25.8	18	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
11	d1mw7a	 Alignment		24.2	25	Fold: YebC-like Superfamily: YebC-like Family: YebC-like

12	c5o31b_			24.0	24	PDB header: oxidoreductase Chain: B: PDB Molecule: nadh dehydrogenase [ubiquinone] iron-sulfur protein 7, PDBTitle: mitochondrial complex i in the deactive state
13	d1uvqb1			23.1	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
14	d1klub1			21.7	16	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
15	d3d85d2			19.6	21	Fold: Immunoglobulin-like beta-sandwich Superfamily: Fibronectin type III Family: Fibronectin type III
16	c5lc5b_			19.5	24	PDB header: oxidoreductase Chain: B: PDB Molecule: nadh dehydrogenase [ubiquinone] iron-sulfur protein 7, PDBTitle: structure of mammalian respiratory complex i, class2
17	c5ldxb_			19.3	24	PDB header: oxidoreductase Chain: B: PDB Molecule: nadh dehydrogenase [ubiquinone] iron-sulfur protein 7, PDBTitle: structure of mammalian respiratory complex i, class3.
18	c5ldwb_			19.3	24	PDB header: oxidoreductase Chain: B: PDB Molecule: nadh dehydrogenase [ubiquinone] iron-sulfur protein 7, PDBTitle: structure of mammalian respiratory complex i, class1
19	d1es0b1			16.3	11	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
20	c5aeoA_			16.2	15	PDB header: immune system Chain: A: PDB Molecule: r. equi vapg protein; PDBTitle: virulence-associated protein vapg from the intracellular pathogen rhodococcus equi
21	d1fnngb1		not modelled	15.1	17	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
22	c5e09A_		not modelled	15.0	18	PDB header: hydrolase Chain: A: PDB Molecule: cellulase; PDBTitle: structural insight of a trimodular halophilic cellulase with a family2 46 carbohydrate-binding module
23	c2amnA_		not modelled	14.1	50	PDB header: antimicrobial protein Chain: A: PDB Molecule: cathelicidin; PDBTitle: solution structure of fowlcicidin-1, a novel cathelicidin2 antimicrobial peptide from chicken
24	c2na6A_		not modelled	13.5	26	PDB header: apoptosis Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: transmembrane domain of mouse fas/cd95 death receptor
25	c2na6C_		not modelled	13.5	26	PDB header: apoptosis Chain: C: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: transmembrane domain of mouse fas/cd95 death receptor
26	c4csbA_		not modelled	13.5	15	PDB header: unknown function Chain: A: PDB Molecule: virulence associated protein vapg; PDBTitle: structure of the virulence-associated protein vapg from the intracellular pathogen rhodococcus equi.
27	c2na6B_		not modelled	13.0	26	PDB header: apoptosis Chain: B: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: transmembrane domain of mouse fas/cd95 death receptor
						Fold: Alpha-L RNA-binding motif

28	d1kska3	Alignment	not modelled	12.7	27	Superfamily: Alpha-L RNA-binding motif Family: Pseudouridine synthase RsuA N-terminal domain
29	d1jk8a1	Alignment	not modelled	12.5	16	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
30	d1c16a1	Alignment	not modelled	12.5	7	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
31	c4cv7A_	Alignment	not modelled	12.4	12	PDB header: toxin Chain: A: PDB Molecule: virulence associated protein vapb; PDBTitle: crystal structure of rhodococcus equi vapb
32	d1ok0a_	Alignment	not modelled	11.9	14	Fold: alpha-Amylase inhibitor tendamistat Superfamily: alpha-Amylase inhibitor tendamistat Family: alpha-Amylase inhibitor tendamistat
33	d1zs8a1	Alignment	not modelled	11.3	11	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
34	c2xkuA_	Alignment	not modelled	10.7	10	PDB header: immune system Chain: A: PDB Molecule: beta-2-microglobulin; PDBTitle: prion-like conversion during amyloid formation at atomic resolution
35	d1qqda1	Alignment	not modelled	10.4	8	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
36	d2iada1	Alignment	not modelled	9.7	18	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
37	d1mhca1	Alignment	not modelled	9.7	8	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
38	d1uvqa1	Alignment	not modelled	9.5	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
39	c2kerA_	Alignment	not modelled	9.5	23	PDB header: hydrolase inhibitor Chain: A: PDB Molecule: alpha-amylase inhibitor z-2685; PDBTitle: alpha-amylase inhibitor parvulustat (z-2685) from2 streptomyces parvulus
40	d1xtda2	Alignment	not modelled	9.1	19	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Cold shock DNA-binding domain-like
41	d1ywka1	Alignment	not modelled	9.0	38	Fold: Double-stranded beta-helix Superfamily: RmlC-like cupins Family: Kdul-like
42	d1lk2a1	Alignment	not modelled	8.9	6	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
43	c1q40C_	Alignment	not modelled	8.5	67	PDB header: translation Chain: C: PDB Molecule: mRNA transport regulator mtr2; PDBTitle: crystal structure of the c. albicans mtr2-mex67 m domain complex
44	c2kt7A_	Alignment	not modelled	8.5	23	PDB header: cell adhesion, membrane protein Chain: A: PDB Molecule: putative peptidoglycan bound protein (lpxtg) PDBTitle: solution nmr structure of mucin-binding domain of protein2 Imo0835 from listeria monocytogenes, northeast structural3 genomics consortium target lmr64a
45	c6b6IB_	Alignment	not modelled	8.1	18	PDB header: hydrolase Chain: B: PDB Molecule: glycosyl hydrolase family 2, sugar binding domain protein; PDBTitle: the crystal structure of glycosyl hydrolase family 2 (gh2) member from2 bacteroides cellulosilyticus dsm 14838
46	c2kppA_	Alignment	not modelled	8.0	30	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: lin0431 protein; PDBTitle: solution nmr structure of lin0431 protein from listeria innocua.2 northeast structural genomics consortium target lkr112
47	d1fnnga1	Alignment	not modelled	7.9	14	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
48	d1dmla1	Alignment	not modelled	7.7	22	Fold: DNA clamp Superfamily: DNA clamp Family: DNA polymerase processivity factor
49	c1ywkE_	Alignment	not modelled	7.7	38	PDB header: isomerase Chain: E: PDB Molecule: 4-deoxy-l-threo-5-hexosulose-uronate ketol-isomerase PDBTitle: crystal structure of 4-deoxy-1-threo-5-hexosulose-uronate2 ketol-isomerase from enterococcus faecalis
50	d2rb6a1	Alignment	not modelled	7.5	28	Fold: Sm-like fold Superfamily: Sm-like ribonucleoproteins Family: YgdI/YgdR-like
51	d1k8ib1	Alignment	not modelled	7.2	19	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
52	c2nykA_	Alignment	not modelled	7.2	23	PDB header: viral protein Chain: A: PDB Molecule: m157; PDBTitle: crystal structure of m157 from mouse cytomegalovirus
53	c3owrA_	Alignment	not modelled	7.1	15	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized hypothetical protein; PDBTitle: crystal structure of a putative secreted protein (bf4250) from2 bacteroides fragilis nctc 9343 at 1.81 a resolution
						Fold: Sm-like fold

54	d3bdua1	Alignment	not modelled	7.1	20	Superfamily: Sm-like ribonucleoproteins Family: Ygdl/Ygdr-like
55	d1x6oa2	Alignment	not modelled	7.0	19	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Cold shock DNA-binding domain-like
56	d1xrua1	Alignment	not modelled	6.8	38	Fold: Double-stranded beta-helix Superfamily: RmlC-like cupins Family: Kdul-like
57	d1pkla1	Alignment	not modelled	6.8	8	Fold: PK beta-barrel domain-like Superfamily: PK beta-barrel domain-like Family: Pyrivate kinase beta-barrel domain
58	d2fa8a1	Alignment	not modelled	6.7	26	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Selenoprotein W-related
59	c3a5pD_	Alignment	not modelled	6.4	21	PDB header: sugar binding protein Chain: D; PDB Molecule: haemagglutinin i; PDBTitle: crystal structure of hemagglutinin
60	c2obkE_	Alignment	not modelled	6.4	26	PDB header: structural genomics, unknown function Chain: E; PDB Molecule: selt/selw/selh selenoprotein domain; PDBTitle: x-ray structure of the putative se binding protein from pseudomonas2 fluorescens. northeast structural genomics consortium target plr6.
61	c4gdzA_	Alignment	not modelled	6.3	30	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a duf4251 family protein (bacegg_02002) from2 bacteroides eggerthii dsm 20697 at 1.95 a resolution
62	d1eg3a3	Alignment	not modelled	6.3	27	Fold: WW domain-like Superfamily: WW domain Family: WW domain
63	c6mhqE_	Alignment	not modelled	6.2	20	PDB header: membrane protein Chain: E; PDB Molecule: gap junction alpha-3 protein, connexin-46; PDBTitle: structure of connexin-46 intercellular gap junction channel at 3.42 angstrom resolution by cryoem
64	d2cs4a1	Alignment	not modelled	6.0	20	Fold: beta-Grasp (ubiquitin-like) Superfamily: Ubiquitin-like Family: Ras-binding domain, RBD
65	c5ee2A_	Alignment	not modelled	6.0	50	PDB header: metal transport Chain: A; PDB Molecule: hemoglobin-haptoglobin-utilization protein; PDBTitle: the crystal structure of the c-terminal beta-barrel of hpu4 from2 neisseria gonorrhoeae
66	d2ra2a1	Alignment	not modelled	5.6	20	Fold: Sm-like fold Superfamily: Sm-like ribonucleoproteins Family: Ygdl/Ygdr-like
67	c3py9A_	Alignment	not modelled	5.5	15	PDB header: transferase Chain: A; PDB Molecule: protein kinase; PDBTitle: x-ray structural studies of the entire extra-cellular region of the2 ser/thr kinase prkc from staphylococcus aureus
68	c2mgyA_	Alignment	not modelled	5.5	8	PDB header: membrane protein Chain: A; PDB Molecule: translocator protein; PDBTitle: solution structure of the mitochondrial translocator protein (tspo) in2 complex with its high-affinity ligand pk11195
69	d1ydw2	Alignment	not modelled	5.5	33	Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: Glucose 6-phosphate dehydrogenase-like
70	c2k9yA_	Alignment	not modelled	5.5	21	PDB header: transferase Chain: A; PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
71	c2k9yB_	Alignment	not modelled	5.5	21	PDB header: transferase Chain: B; PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
72	d1iaka1	Alignment	not modelled	5.4	18	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
73	d1of5b_	Alignment	not modelled	5.3	33	Fold: Cystatin-like Superfamily: NTF2-like Family: NTF2-like
74	d2jn0a1	Alignment	not modelled	5.2	15	Fold: Sm-like fold Superfamily: Sm-like ribonucleoproteins Family: Ygdl/Ygdr-like
75	d1s9va1	Alignment	not modelled	5.2	16	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: C1 set domains (antibody constant domain-like)
76	d1a3xa1	Alignment	not modelled	5.0	5	Fold: PK beta-barrel domain-like Superfamily: PK beta-barrel domain-like Family: Pyrivate kinase beta-barrel domain
77	d1dgja2	Alignment	not modelled	5.0	40	Fold: beta-Grasp (ubiquitin-like) Superfamily: 2Fe-2S ferredoxin-like Family: 2Fe-2S ferredoxin domains from multidomain proteins