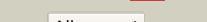
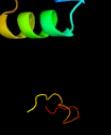


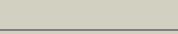
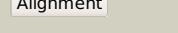
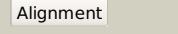
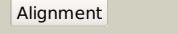
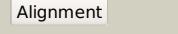
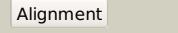
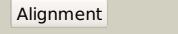
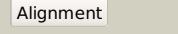
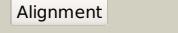
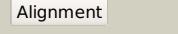
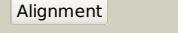
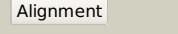
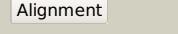
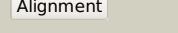
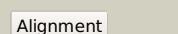
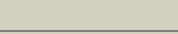
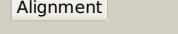
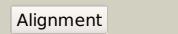
Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD0862c_(-)_960345_962615
Date	Fri Jul 26 01:50:45 BST 2019
Unique Job ID	887956da345ffac0

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6nmiA_			98.7	21	PDB header: transcription Chain: A: PDB Molecule: general transcription and dna repair factor iih helicase PDBTitle: cryo-em structure of the human tfiih core complex
2	c6nmiD_			97.6	19	PDB header: transcription Chain: D: PDB Molecule: general transcription factor iih subunit 4, p52; PDBTitle: cryo-em structure of the human tfiih core complex
3	c6ro4A_			97.2	20	PDB header: translocase Chain: A: PDB Molecule: general transcription and dna repair factor iih helicase PDBTitle: structure of the core tfiih-xpa-dna complex
4	c3fryB_			55.6	16	PDB header: hydrolase Chain: B: PDB Molecule: probable copper-exporting p-type atpase a; PDBTitle: crystal structure of the copa c-terminal metal binding domain
5	c4g9qA_			42.5	12	PDB header: lyase Chain: A: PDB Molecule: 4-carboxymuconolactone decarboxylase; PDBTitle: crystal structure of a 4-carboxymuconolactone decarboxylase
6	c3pl5A_			40.4	26	PDB header: lipid binding protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: fatty acid binding protein
7	d1pzxa_			39.6	18	Fold: DAK1/DegV-like Superfamily: DAK1/DegV-like Family: DegV-like
8	d2galal1			37.7	9	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Alr1493-like
9	c2r8rB_			36.0	24	PDB header: transferase Chain: B: PDB Molecule: sensor protein; PDBTitle: crystal structure of the n-terminal region (19..243) of sensor protein2 kdpd from pseudomonas syringae pv. tomato str. dc3000
10	c6cngA_			34.0	23	PDB header: transferase Chain: A: PDB Molecule: fatty acid kinase (fak) b3 protein; PDBTitle: the x-ray crystal structure of the streptococcus pneumoniae fatty acid2 kinase (fak) b3 protein loaded with linoleic acid to 1.47 angstrom3 resolution
11	d2q0ta1			31.3	24	Fold: AhpD-like Superfamily: AhpD-like Family: AhpD

12	d2af7a1			31.1	24	Fold: AhpD-like Superfamily: AhpD-like Family: CMD-like
13	c2g7zB			31.0	11	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: conserved hypothetical protein spy1493; PDBTitle: conserved degv-like protein of unknown function from streptococcus2 pyogenes m1 gas binds long-chain fatty acids
14	c4a6dA			27.8	12	PDB header: transferase Chain: A: PDB Molecule: hydroxyindole o-methyltransferase; PDBTitle: crystal structure of human n-acetylserotonin2 methyltransferase (asmt) in complex with sam
15	c6dj6B			27.2	11	PDB header: transferase Chain: B: PDB Molecule: fatty acid kinase (fak) b2 protein (spr1019); PDBTitle: the x-ray crystal structure of the streptococcus pneumoniae fatty acid2 kinase (fak) b2 protein loaded with cis-oleic acid to 1.9 angstrom3 resolution
16	c5utoB			25.3	13	PDB header: transport protein Chain: B: PDB Molecule: edd domain protein, degv family; PDBTitle: the crystal structure of the staphylococcus aureus fatty acid kinase2 (fak) b1 protein loaded with palmitic acid to 1.83 angstrom3 resolution
17	c1zhvA			24.1	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein atu0741; PDBTitle: x-ray crystal structure protein atu0741 from agrobacterium tumefaciens.2 northeast structural genomics consortium target atr8.
18	d2p0la1			22.9	14	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: LplA-like
19	d3bz6a2			22.4	23	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: PSPTO2686-like
20	d1mgpa			21.7	20	Fold: DAK1/DegV-like Superfamily: DAK1/DegV-like Family: DegV-like
21	c1mgpA		not modelled	21.7	20	PDB header: lipid binding protein Chain: A: PDB Molecule: hypothetical protein tm841; PDBTitle: hypothetical protein tm841 from thermotoga maritima reveals2 fatty acid binding function
22	c2dt8A		not modelled	21.0	14	PDB header: lipid binding protein Chain: A: PDB Molecule: degv family protein; PDBTitle: fatty acid binding of a degv family protein from thermus thermophilus
23	c5tmxA		not modelled	20.4	13	PDB header: transcription regulator Chain: A: PDB Molecule: protein sini; PDBTitle: solution structure of sini, antagonist to the master biofilm-regulator2 sini in bacillus subtilis
24	c3lstB		not modelled	19.3	20	PDB header: transferase Chain: B: PDB Molecule: calo1 methyltransferase; PDBTitle: crystal structure of calo1, methyltransferase in calicheamicin2 biosynthesis, sah bound form
25	c3nyiA		not modelled	19.0	17	PDB header: lipid binding protein Chain: A: PDB Molecule: fat acid-binding protein; PDBTitle: the crystal structure of a fat acid (stearic acid)-binding protein2 from eubacterium ventriosum atcc 27560.
26	c3iuoA		not modelled	18.7	18	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent dna helicase recq; PDBTitle: the crystal structure of the c-terminal domain of the atp-dependent2 dna helicase recq from porphyromonas gingivalis to 1.6a
27	c2xvcA		not modelled	18.1	27	PDB header: cell cycle Chain: A: PDB Molecule: escrt-iii; PDBTitle: molecular and structural basis of escrt-iii recruitment to membranes2 during archaeal cell division
28	c3fdjA		not modelled	17.7	11	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: degv family protein; PDBTitle: the structure of a degv family protein from eubacterium

						eligens.
29	c3bz6A		Alignment	not modelled	17.2	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: upf0502 protein pspto_2686; PDBTitle: crystal structure of a conserved protein of unknown function from2 pseudomonas syringae pv. tomato str. dc3000
30	c2k2pA		Alignment	not modelled	17.0	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein atu1203; PDBTitle: solution nmr structure of protein atu1203 from agrobacterium2 tumefaciens. northeast structural genomics consortium (nesg) target3 att10, ontario center for structural proteomics target atc1183
31	c2va0E		Alignment	not modelled	16.7	PDB header: transferase Chain: E: PDB Molecule: abfs arabinofuranosidase two component system sensor PDBTitle: differential regulation of the xylan degrading apparatus of2 cellulibacter japonicus by a novel two component system
32	d1rj9a1		Alignment	not modelled	16.5	Fold: Four-helical up-and-down bundle Superfamily: Domain of the SRP/SRP receptor G-proteins Family: Domain of the SRP/SRP receptor G-proteins
33	c4x9xA		Alignment	not modelled	16.4	PDB header: transferase Chain: A: PDB Molecule: degy domain-containing protein mw1315; PDBTitle: biochemical roles for conserved residues in the bacterial fatty acid2 binding protein family
34	d1zhva2		Alignment	not modelled	15.7	Fold: Ferredoxin-like Superfamily: ACT-like Family: Atu0741-like
35	c2hcna		Alignment	not modelled	15.6	PDB header: transferase Chain: A: PDB Molecule: rna-directed rna polymerase (ns5); PDBTitle: crystal structure of rna dependent rna polymerase domain from west2 nile virus
36	c3dp7B		Alignment	not modelled	15.6	PDB header: transferase Chain: B: PDB Molecule: sam-dependent methyltransferase; PDBTitle: crystal structure of sam-dependent methyltransferase from bacteroides2 vulgatus atcc 8482
37	d1wmhb		Alignment	not modelled	14.7	Fold: beta-Grasp (ubiquitin-like) Superfamily: CAD & PB1 domains Family: PB1 domain
38	c3pzfA		Alignment	not modelled	14.4	PDB header: hydrolase inhibitor Chain: A: PDB Molecule: serpin 2; PDBTitle: 1.75a resolution structure of serpin-2 from anopheles gambiae
39	d1b0nai		Alignment	not modelled	14.4	Fold: Dimerisation interlock Superfamily: SinR repressor dimerisation domain-like Family: SinR repressor dimerisation domain-like
40	c3og9C		Alignment	not modelled	14.3	PDB header: apoptosis Chain: C: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: structure of the fas/fadd death domain assembly
41	d2p5ia1		Alignment	not modelled	13.2	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: LplA-like
42	c4gysA		Alignment	not modelled	12.5	PDB header: hydrolase Chain: A: PDB Molecule: allophanate hydrolase; PDBTitle: granulibacter bethesdensis allophanate hydrolase co-crystallized with2 malonate
43	c3wvqA		Alignment	not modelled	12.4	PDB header: biosynthetic protein Chain: A: PDB Molecule: pgm1; PDBTitle: structure of atp grasp protein
44	d2ikba1		Alignment	not modelled	12.3	Fold: Lysozyme-like Superfamily: Lysozyme-like Family: NMB1012-like
45	c3jr7A		Alignment	not modelled	11.9	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized efv family protein cog1307; PDBTitle: the crystal structure of the protein of degv family cog1307 with2 unknown function from ruminococcus gnarus atcc 29149
46	d1jg5a		Alignment	not modelled	11.5	Fold: GTP cyclohydrolase I feedback regulatory protein, GFRP Superfamily: GTP cyclohydrolase I feedback regulatory protein, GFRP Family: GTP cyclohydrolase I feedback regulatory protein, GFRP
47	c2hl7A		Alignment	not modelled	11.2	PDB header: oxidoreductase Chain: A: PDB Molecule: cytochrome c-type biogenesis protein ccmh; PDBTitle: crystal structure of the periplasmic domain of ccmh from pseudomonas2 aeruginosa
48	c1y3kA		Alignment	not modelled	11.0	PDB header: hydrolase Chain: A: PDB Molecule: copper-transferring atpase 1; PDBTitle: solution structure of the apo form of the fifth domain of2 menkes protein
49	c6dkeA		Alignment	not modelled	10.9	PDB header: transferase Chain: A: PDB Molecule: fatty acid kinase (fak) b1 protein; PDBTitle: the x-ray crystal structure of streptococcus pneumoniae fatty acid2 kinase (fak) b1 protein loaded with palmitic acid (c16:0) to 1.763 angstrom resolution
50	c1dmlF		Alignment	not modelled	10.9	PDB header: dna binding protein/transferase Chain: F: PDB Molecule: dna polymerase; PDBTitle: crystal structure of herpes simplex ul42 bound to the c-terminus of2 hsv pol
51	c1dmlH		Alignment	not modelled	10.9	PDB header: dna binding protein/transferase Chain: H: PDB Molecule: dna polymerase; PDBTitle: crystal structure of herpes simplex ul42 bound to the c-terminus of2 hsv pol
52	c1dmlD		Alignment	not modelled	10.9	PDB header: dna binding protein/transferase Chain: D: PDB Molecule: dna polymerase; PDBTitle: crystal structure of herpes simplex ul42 bound to the c-terminus of2 hsv pol
						PDB header: dna binding protein/transferase

53	c1dmIB_	Alignment	not modelled	10.9	35	Chain: B: PDB Molecule: dna polymerase; PDBTitle: crystal structure of herpes simplex ul42 bound to the c-terminus of 2 hsv pol
54	d1m6ya1	Alignment	not modelled	10.8	19	Fold: SAM domain-like Superfamily: Putative methyltransferase TM0872, insert domain Family: Putative methyltransferase TM0872, insert domain
55	c5tn2B_	Alignment	not modelled	10.7	33	PDB header: transcription Chain: B: PDB Molecule: hth-type transcriptional regulator sinr; PDBTitle: solution structure of the c-terminal multimerization domain of the2 master biofilm-regulator sinr from bacillus subtilis
56	d1qzza1	Alignment	not modelled	10.3	24	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Plant O-methyltransferase, N-terminal domain
57	d1z0xa2	Alignment	not modelled	10.3	40	Fold: Tetracyclin repressor-like, C-terminal domain Superfamily: Tetracyclin repressor-like, C-terminal domain Family: Tetracyclin repressor-like, C-terminal domain
58	c3lupA_	Alignment	not modelled	10.2	14	PDB header: structure genomics, unknown function Chain: A: PDB Molecule: degv family protein; PDBTitle: crystal structure of fatty acid binding degv family protein sag13422 from streptococcus agalactiae
59	c2ygwB_	Alignment	not modelled	10.0	35	PDB header: lyase Chain: B: PDB Molecule: malonyl-coa decarboxylase, mitochondrial; PDBTitle: crystal structure of human mcd
60	c2kw0A_	Alignment	not modelled	9.9	19	PDB header: oxidoreductase Chain: A: PDB Molecule: ccmh protein; PDBTitle: solution structure of n-terminal domain of ccmh from escherichia.coli
61	c2zc3F_	Alignment	not modelled	9.8	11	PDB header: biosynthetic protein Chain: F: PDB Molecule: penicillin-binding protein 2x; PDBTitle: penicillin-binding protein 2x (pbp 2x) acyl-enzyme complex2 (biapenem) from streptococcus pneumoniae
62	d1s6ua_	Alignment	not modelled	9.7	15	Fold: Ferrodoxin-like Superfamily: HMA, heavy metal-associated domain Family: HMA, heavy metal-associated domain
63	c3ghfA_	Alignment	not modelled	9.6	22	PDB header: cell cycle Chain: A: PDB Molecule: septum site-determining protein minc; PDBTitle: crystal structure of the septum site-determining protein minc from2 salmonella typhimurium
64	d1kvja_	Alignment	not modelled	9.4	8	Fold: Ferrodoxin-like Superfamily: HMA, heavy metal-associated domain Family: HMA, heavy metal-associated domain
65	c5u8jA_	Alignment	not modelled	8.9	21	PDB header: unknown function Chain: A: PDB Molecule: upf0502 protein bfj73_07745; PDBTitle: crystal structure of a protein of unknown function ecl_02571 involved2 in membrane biogenesis from enterobacter cloacae
66	d1pyya1	Alignment	not modelled	8.9	11	Fold: Penicillin-binding protein 2x (pbp-2x), c-terminal domain Superfamily: Penicillin-binding protein 2x (pbp-2x), c-terminal domain Family: Penicillin-binding protein 2x (pbp-2x), c-terminal domain
67	c4qvgC_	Alignment	not modelled	8.7	14	PDB header: transferase Chain: C: PDB Molecule: sibl; PDBTitle: crystal structure of s-adenosylmethionine-dependent methyltransferase2 sibl in its apo form
68	d1ddfa_	Alignment	not modelled	8.7	15	Fold: DEATH domain Superfamily: DEATH domain Family: DEATH domain, DD
69	c3o59X_	Alignment	not modelled	8.6	40	PDB header: transferase Chain: X: PDB Molecule: dna polymerase ii large subunit; PDBTitle: dna polymerase d large subunit dp2(1-300) from pyrococcus horikoshii
70	c4u4hA_	Alignment	not modelled	8.3	23	PDB header: viral protein Chain: A: PDB Molecule: tegument protein ul21; PDBTitle: crystal structure of hsv-1 ul21 n-terminal domain
71	c1u3eM_	Alignment	not modelled	8.3	17	PDB header: dna binding protein/dna Chain: M: PDB Molecule: hhn homing endonuclease; PDBTitle: dna binding and cleavage by the hhn homing endonuclease i-hmu1
72	c2o1uA_	Alignment	not modelled	8.2	29	PDB header: chaperone Chain: A: PDB Molecule: endoplasmin; PDBTitle: structure of full length grp94 with amp-pnp bound
73	d1wg8a1	Alignment	not modelled	8.0	25	Fold: SAM domain-like Superfamily: Putative methyltransferase TM0872, insert domain Family: Putative methyltransferase TM0872, insert domain
74	d1k25a1	Alignment	not modelled	7.9	11	Fold: Penicillin-binding protein 2x (pbp-2x), c-terminal domain Superfamily: Penicillin-binding protein 2x (pbp-2x), c-terminal domain Family: Penicillin-binding protein 2x (pbp-2x), c-terminal domain
75	c2ip2B_	Alignment	not modelled	7.9	19	PDB header: transferase Chain: B: PDB Molecule: probable phenazine-specific methyltransferase; PDBTitle: structure of the pyocyanin biosynthetic protein phzm
76	d1tw3a1	Alignment	not modelled	7.6	31	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Plant O-methyltransferase, N-terminal domain
77	c5lltB_	Alignment	not modelled	7.6	18	PDB header: transferase Chain: B: PDB Molecule: nicotinate-nucleotide adenylyltransferase; PDBTitle: plasmodium falciparum nicotinic acid mononucleotide2 adenylyltransferase complexed with naad
78	c6h45B_	Alignment	not modelled	7.6	16	PDB header: transferase Chain: B: PDB Molecule: queuine trna-ribosyltransferase catalytic subunit 1; PDBTitle: crystal structure of the human tgt catalytic subunit qrt1 in complex2 with queuine
						Fold: DNA/RNA-binding 3-helical bundle

79	d1g3wa1	Alignment	not modelled	7.5	12	Superfamily: "Winged helix" DNA-binding domain Family: iron-dependent repressor protein
80	c5zzaP_	Alignment	not modelled	7.5	29	PDB header: structural protein Chain: P; PDB Molecule: uncharacterized protein; PDBTitle: odinprofilin/rabbit actin complex
81	c4z2yA_	Alignment	not modelled	7.3	23	PDB header: transferase Chain: A; PDB Molecule: calo6; PDBTitle: crystal structure of methyltransferase calo6
82	c4e6kl_	Alignment	not modelled	7.1	30	PDB header: metal binding protein/electron transport Chain: I; PDB Molecule: bacterioferritin-associated ferredoxin; PDBTitle: 2.0 a resolution structure of pseudomonas aeruginosa bacterioferritin2 (bfbr) in complex with bacterioferritin associated ferredoxin (bfd)
83	c3mwmA_	Alignment	not modelled	7.1	20	PDB header: transcription Chain: A; PDB Molecule: putative metal uptake regulation protein; PDBTitle: graded expression of zinc-responsive genes through two regulatory2 zinc-binding sites in zur
84	c3omdB_	Alignment	not modelled	7.1	7	PDB header: structural genomics, unknown function Chain: B; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of unknown function protein from leptospirillum2 rubarum
85	c3fpnA_	Alignment	not modelled	7.0	17	PDB header: dna binding protein Chain: A; PDB Molecule: geobacillus stearothermophilus uvra interaction domain; PDBTitle: crystal structure of uvra-uvrb interaction domains
86	d1lqua2	Alignment	not modelled	7.0	22	Fold: Ferredoxin-like Superfamily: HMA, heavy metal-associated domain Family: HMA, heavy metal-associated domain
87	c2kt7A_	Alignment	not modelled	7.0	31	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
88	d1u5ta2	Alignment	not modelled	7.0	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Vacuolar sorting protein domain
89	d1pzqa_	Alignment	not modelled	6.9	30	Fold: Dimerisation interlock Superfamily: Docking domain A of the erythromycin polyketide synthase (DEBS) Family: Docking domain A of the erythromycin polyketide synthase (DEBS)
90	c1tw3A_	Alignment	not modelled	6.8	28	PDB header: transferase Chain: A; PDB Molecule: carminomycin 4-o-methyltransferase; PDBTitle: crystal structure of carminomycin-4-o-methyltransferase (dnrk) in2 complex with s-adenosyl-l-homocystein (sah) and 4-methoxy-e-3 rhodomycin t (m-et)
91	c1wsuA_	Alignment	not modelled	6.7	20	PDB header: translation/rna Chain: A; PDB Molecule: selenocysteine-specific elongation factor; PDBTitle: c-terminal domain of elongation factor selb complexed with2 secis rna
92	c2x4hA_	Alignment	not modelled	6.7	14	PDB header: transcription Chain: A; PDB Molecule: hypothetical protein sso2273; PDBTitle: crystal structure of the hypothetical protein sso2273 from2 sulfolobus solfataricus
93	c1xdubA_	Alignment	not modelled	6.6	21	PDB header: transferase Chain: A; PDB Molecule: protein rdmb; PDBTitle: crystal structure of aclacinomycin-10-hydroxylase (rdmb) in complex2 with sinefungin (sfg)
94	c3gxgA_	Alignment	not modelled	6.6	26	PDB header: hydrolase Chain: A; PDB Molecule: putative phosphatase (duf442); PDBTitle: crystal structure of putative phosphatase (duf442) (yp_001181608.1)2 from shewanella putrefaciens cn-32 at 1.60 a resolution
95	c1af7A_	Alignment	not modelled	6.5	20	PDB header: methyltransferase Chain: A; PDB Molecule: chemotaxis receptor methyltransferase cher; PDBTitle: cher from salmonella typhimurium
96	c3fySA_	Alignment	not modelled	6.5	20	PDB header: fatty acid-binding protein Chain: A; PDB Molecule: protein degv; PDBTitle: crystal structure of degv, a fatty acid binding protein2 from bacillus subtilis
97	c6ff2A_	Alignment	not modelled	6.4	15	PDB header: chaperone Chain: A; PDB Molecule: copper chaperone copz; PDBTitle: copz metallochaperone
98	d2fi0a1	Alignment	not modelled	6.4	23	Fold: SP0561-like Superfamily: SP0561-like Family: SP0561-like
99	c2j7uA_	Alignment	not modelled	6.4	24	PDB header: viral protein Chain: A; PDB Molecule: rna dependent rna polymerase; PDBTitle: dengue virus ns5 rna dependent rna polymerase domain