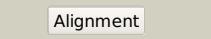
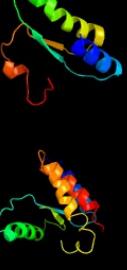
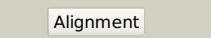
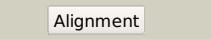
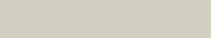
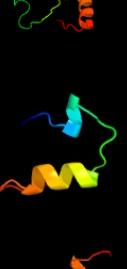
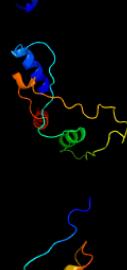
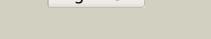


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD1476_(-)_1666210_1666770
Date	Fri Aug 2 13:30:05 BST 2019
Unique Job ID	9407236113326cb0

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2kptA_			82.2	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative secreted protein; PDBTitle: solution nmr structure of the n-terminal domain of cg24962 protein from corynebacterium glutamicum. northeast structural genomics consortium target cgr26a
2	c5dboA_			47.7	16	PDB header: translation Chain: A: PDB Molecule: translation initiation factor eif-2b-like protein; PDBTitle: crystal structure of the tetrameric eif2b-beta2-delta2 complex from c.2 thermophilum
3	c6hwhT_			39.9	14	PDB header: electron transport Chain: T: PDB Molecule: uncharacterized protein msmeg_4692/msmei_4575; PDBTitle: structure of a functional obligate respiratory supercomplex from2 mycobacterium smegmatis
4	c2kw7A_			38.7	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved domain protein; PDBTitle: solution nmr structure of the n-terminal domain of protein pg_03612 from p.gingivalis, northeast structural genomics consortium target3 pgr37a
5	c4zquA_			37.9	8	PDB header: toxin Chain: A: PDB Molecule: cdia-ct toxin, conserved domain protein; PDBTitle: cdia-ct/cdii toxin and immunity complex from yersinia2 pseudotuberculosis
6	c5anpB_			35.6	9	PDB header: unknown function Chain: B: PDB Molecule: ba41; PDBTitle: crystal structure of the ba41 protein from bizonia argentinensis
7	c3wrkB_			33.5	15	PDB header: oxidoreductase Chain: B: PDB Molecule: gallate dioxygenase; PDBTitle: crystal structure of the anaerobic h124f desb-gallate complex
8	c2jx5A_			25.2	21	PDB header: ribosomal protein Chain: A: PDB Molecule: glub(s27a); PDBTitle: solution structure of the ubiquitin domain n-terminal to2 the s27a ribosomal subunit of giardia lamblia
9	c2rmzA_			23.9	26	PDB header: cell adhesion Chain: A: PDB Molecule: integrin beta-3; PDBTitle: bicelle-embedded integrin beta3 transmembrane segment
10	c4wpgA_			23.2	15	PDB header: oxidoreductase Chain: A: PDB Molecule: dtdp-4-dehydrorhamnose reductase; PDBTitle: group a streptococcus gaca is an essential dtdp-4-dehydrorhamnose2 reductase (rmld)
11	c2x3dC_			23.1	21	PDB header: unknown function Chain: C: PDB Molecule: sso6206; PDBTitle: crystal structure of sso6206 from sulfolobus solfataricus p2

12	c5vxsF			22.0	13	PDB header: lyase Chain: F: PDB Molecule: citrate lyase subunit beta-like protein, mitochondrial; PDBTitle: crystal structure analysis of human clybl in apo form
13	d1gjia1			21.8	25	Fold: LEM/SAP HeH motif Superfamily: LEM domain Family: LEM domain
14	c5k9xA			21.7	18	PDB header: lyase Chain: A: PDB Molecule: tryptophan synthase alpha chain; PDBTitle: crystal structure of tryptophan synthase alpha chain from legionella2 pneumophila subsp. pneumophila
15	c5lvaA			21.2	10	PDB header: oxidoreductase Chain: A: PDB Molecule: nad(p)h-fmn oxidoreductase; PDBTitle: crystal structure of thermophilic tryptophan halogenase (th-hal)2 enzyme from streptomycin violaceusniger.
16	d1rrta			20.3	11	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: NADPH-dependent FMN reductase
17	c5d88A			19.4	23	PDB header: hydrolase Chain: A: PDB Molecule: predicted protease of the collagenase family; PDBTitle: the structure of the u32 peptidase mk0906
18	d1ni9a			18.8	32	Fold: Carbohydrate phosphatase Superfamily: Carbohydrate phosphatase Family: GlpX-like bacterial fructose-1,6-bisphosphatase
19	c4g6uA			18.2	4	PDB header: toxin Chain: A: PDB Molecule: ec869 cdia-ct; PDBTitle: cdia-ct/cdii toxin and immunity complex from escherichia coli
20	c4ar0A			18.1	17	PDB header: transport Chain: A: PDB Molecule: type iv pilus biogenesis and competence protein pilQ; PDBTitle: n0 domain of neisseria meningitidis pilus assembly protein pilQ
21	c5ohdB		not modelled	17.8	22	PDB header: membrane protein Chain: B: PDB Molecule: growth hormone receptor; PDBTitle: putative inactive (dormant) dimeric state of ghr transmembrane domain
22	c6jdkA		not modelled	17.6	17	PDB header: oxidoreductase Chain: A: PDB Molecule: baeyer-villiger monooxygenase; PDBTitle: crystal structure of baeyer-villiger monooxygenase from parvibaculum2 laventivorous
23	c4mozC		not modelled	17.2	21	PDB header: lyase Chain: C: PDB Molecule: fructose-bisphosphate aldolase; PDBTitle: fructose-bisphosphate aldolase from slackia heliotrinireducens dsm2 20476
24	c2advB		not modelled	16.9	33	PDB header: hydrolyase Chain: B: PDB Molecule: glutaryl 7- aminocephalosporanic acid acylase; PDBTitle: crystal structures of glutaryl 7-aminocephalosporanic acid acylase:2 mutational study of activation mechanism
25	c6an7D		not modelled	16.3	16	PDB header: transport protein Chain: D: PDB Molecule: transport permease protein; PDBTitle: crystal structure of o-antigen polysaccharide abc-transporter
26	d1h9ea		not modelled	16.3	25	Fold: LEM/SAP HeH motif Superfamily: LEM domain Family: LEM domain
27	c5ltwK		not modelled	16.1	35	PDB header: protein binding Chain: K: PDB Molecule: heat shock protein beta-6; PDBTitle: complex of human 14-3-3 sigma clu1 mutant with phosphorylated heat2 shock protein b6
28	c2outA		not modelled	15.0	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: mu-like prophage flumu protein gp35, protein PDBTitle: solution structure of hi1506, a novel two domain protein2

						from haemophilus influenzae
29	c3f2vA	Alignment	not modelled	14.7	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: general stress protein 14; PDBTitle: crystal structure of the general stress protein 14 (tde0354) in2 complex with fmn from treponema denticola, northeast structural3 genomics consortium target tdr58.
30	c5b04G	Alignment	not modelled	14.4	19	PDB header: translation Chain: G: PDB Molecule: probable translation initiation factor eif-2b subunit PDBTitle: crystal structure of the eukaryotic translation initiation factor 2b2 from schizosaccharomyces pombe
31	c6cfwl	Alignment	not modelled	13.8	23	PDB header: membrane protein Chain: I: PDB Molecule: mbh subunit; PDBTitle: cryoem structure of a respiratory membrane-bound hydrogenase
32	c3u7rB	Alignment	not modelled	13.5	17	PDB header: oxidoreductase Chain: B: PDB Molecule: nadph-dependent fmn reductase; PDBTitle: ferb - flavoenzyme nad(p)h:(acceptor) oxidoreductase (ferb) from2 paracoccus denitrificans
33	c3q9qB	Alignment	not modelled	13.2	30	PDB header: chaperone Chain: B: PDB Molecule: heat shock protein beta-1; PDBTitle: hspb1 fragment second crystal form
34	c2kncA	Alignment	not modelled	13.2	19	PDB header: cell adhesion Chain: A: PDB Molecule: integrin alpha-iiB; PDBTitle: platelet integrin alfa1ib-beta3 transmembrane-cytoplasmic2 heterocomplex
35	c6f2rT	Alignment	not modelled	13.0	20	PDB header: chaperone Chain: T: PDB Molecule: heat shock protein beta-3,heat shock protein beta-3,heat PDBTitle: a hetrotetramer of human hspb2 and hspb3
36	c5b04B	Alignment	not modelled	12.8	13	PDB header: translation Chain: B: PDB Molecule: translation initiation factor eif-2b subunit alpha; PDBTitle: crystal structure of the eukaryotic translation initiation factor 2b2 from schizosaccharomyces pombe
37	c3ha2B	Alignment	not modelled	12.6	13	PDB header: oxidoreductase Chain: B: PDB Molecule: nadph-quinone reductase; PDBTitle: crystal structure of protein (nadph-quinone reductase) from2 p.pentosaceus, northeast structural genomics consortium target ptr24a
38	c2wj7D	Alignment	not modelled	12.3	35	PDB header: chaperone Chain: D: PDB Molecule: alpha-crystallin b chain; PDBTitle: human alphab crystallin
39	c5j7xA	Alignment	not modelled	12.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: dimethylaniline monooxygenase, putative; PDBTitle: baeyer-villiger monooxygenase bvmoaf1838 from aspergillus flavus
40	c5mq6A	Alignment	not modelled	11.5	13	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase-like protein; PDBTitle: polycyclic ketone monooxygenase from the thermophilic fungus2 thermothelomycetes thermophila
41	c2bolA	Alignment	not modelled	11.0	26	PDB header: heat shock protein Chain: A: PDB Molecule: small heat shock protein; PDBTitle: crystal structure and assembly of tsp36, a metazoan small heat shock2 protein
42	c3a11D	Alignment	not modelled	10.8	22	PDB header: isomerase Chain: D: PDB Molecule: translation initiation factor eif-2b, delta subunit; PDBTitle: crystal structure of ribose-1,5-bisphosphate isomerase from2 thermococcus kodakaraensis kod1
43	c5m0zA	Alignment	not modelled	10.7	17	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase from thermocrispum municipale.; PDBTitle: cyclohexanone monooxygenase from t. municipale: reduced enzyme bound2 to nadp+
44	c6daqA	Alignment	not modelled	10.3	22	PDB header: lyase Chain: A: PDB Molecule: phdj; PDBTitle: phdj bound to substrate intermediate
45	c1u0kA	Alignment	not modelled	10.2	11	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: gene product pa4716; PDBTitle: the structure of a predicted epimerase pa4716 from pseudomonas2 aeruginosa
46	c6c14A	Alignment	not modelled	10.2	7	PDB header: membrane protein, metal transport Chain: A: PDB Molecule: protocadherin-15; PDBTitle: cryoem structure of mouse pcdh15-1ec-lhfpl5 complex
47	c1gj1A	Alignment	not modelled	9.9	25	PDB header: membrane protein Chain: A: PDB Molecule: lap2; PDBTitle: n-terminal constant region of the nuclear envelope protein2 lap2
48	c2lt2A	Alignment	not modelled	9.8	12	PDB header: unknown function Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: nmr structure of ba42 protein from the psychrophilic bacteria bizonia2 argentiniensis sp. nov.
49	c2y9kG	Alignment	not modelled	9.7	11	PDB header: protein transport Chain: G: PDB Molecule: protein invg; PDBTitle: three-dimensional model of salmonella's needle complex at subnanometer2 resolution
50	c4n6hA	Alignment	not modelled	9.7	10	PDB header: signaling protein Chain: A: PDB Molecule: soluble cytochrome b562, delta-type opioid receptor PDBTitle: 1.8 a structure of the human delta opioid 7tm receptor (psi community2 target)
51	c5tchG	Alignment	not modelled	9.6	11	PDB header: lyase Chain: G: PDB Molecule: tryptophan synthase alpha chain; PDBTitle: crystal structure of tryptophan synthase from m. tuberculosis -2 ligand-free form, trpa-g66v mutant
52	c4b9zA	Alignment	not modelled	9.5	23	PDB header: hydrolase Chain: A: PDB Molecule: alpha-glucosidase, putative, adg31b; PDBTitle: crystal structure of agd31b, alpha-transglucosylase,2

						complexed with acarbose
53	c2ks1B	Alignment	not modelled	9.4	21	PDB header: transferase Chain: B: PDB Molecule: epidermal growth factor receptor; PDBTitle: heterodimeric association of transmembrane domains of erb1 and erb2 receptors enabling kinase activation
54	d1xuba1	Alignment	not modelled	9.2	22	Fold: Diaminopimelate epimerase-like Superfamily: Diaminopimelate epimerase-like Family: PhzC/PhzF-like
55	d3bpda1	Alignment	not modelled	9.2	17	Fold: Ferredoxin-like Superfamily: MTH889-like Family: MTH889-like
56	c1spfA	Alignment	not modelled	9.2	35	PDB header: lipoprotein(surface film) Chain: A: PDB Molecule: pulmonary surfactant-associated polypeptide c; PDBTitle: the nmr structure of the pulmonary surfactant-associated2 polypeptide sp-c in an apolar solvent contains a valyl-3 rich alpha-helix
57	c3vsjA	Alignment	not modelled	9.2	19	PDB header: oxidoreductase Chain: A: PDB Molecule: 2-amino-5-chlorophenol 1,6-dioxygenase alpha subunit; PDBTitle: crystal structure of 1,6-apd (2-anisomphenol-1,6-dioxygenase) complexed2 with intermediate products
58	c1w4xA	Alignment	not modelled	9.1	9	PDB header: oxygenase Chain: A: PDB Molecule: phenylacetone monooxygenase; PDBTitle: phenylacetone monooxygenase, a baeyer-villiger2 monooxygenase
59	d1w4xa2	Alignment	not modelled	9.0	9	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
60	c3ucIA	Alignment	not modelled	8.9	26	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: cyclohexanone-bound crystal structure of cyclohexanone monooxygenase2 in the rotated conformation
61	c6an7C	Alignment	not modelled	8.7	14	PDB header: transport protein Chain: C: PDB Molecule: transport permease protein; PDBTitle: crystal structure of o-antigen polysaccharide abc-transporter
62	c2kncB	Alignment	not modelled	8.5	26	PDB header: cell adhesion Chain: B: PDB Molecule: integrin beta-3; PDBTitle: platelet integrin alfa1ibeta3 transmembrane-cytoplasmic2 heterocomplex
63	d2raqa1	Alignment	not modelled	8.5	17	Fold: Ferredoxin-like Superfamily: MTH889-like Family: MTH889-like
64	c2e7zA	Alignment	not modelled	8.4	18	PDB header: lyase Chain: A: PDB Molecule: acetylene hydratase ahv; PDBTitle: acetylene hydratase from pelobacter acetylénicus
65	c6dv5T	Alignment	not modelled	8.3	30	PDB header: chaperone Chain: T: PDB Molecule: heat shock protein beta-1; PDBTitle: oligomeric complex of a hsp27 24-mer at 3.6 a resolution
66	c5zazaA	Alignment	not modelled	8.3	26	PDB header: cell adhesion Chain: A: PDB Molecule: integrin beta-2; PDBTitle: solution structure of integrin b2 monomer tranmembrane domain in2 bicelle
67	c4zeoH	Alignment	not modelled	8.1	17	PDB header: translation Chain: H: PDB Molecule: translation initiation factor eif-2b-like protein; PDBTitle: crystal structure of eif2b delta from chaetomium thermophilum
68	c2n2aA	Alignment	not modelled	8.1	17	PDB header: membrane protein Chain: A: PDB Molecule: receptor tyrosine-protein kinase erbB-2; PDBTitle: spatial structure of her2/erbB2 dimeric transmembrane domain in the2 presence of cytoplasmic juxtapamembrane domains
69	c3uoyB	Alignment	not modelled	8.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: otemo; PDBTitle: crystal structure of otomo complex with fad and nadp (form 1)
70	c3gwdA	Alignment	not modelled	8.0	26	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: closed crystal structure of cyclohexanone monooxygenase
71	c6f2rA	Alignment	not modelled	7.9	37	PDB header: chaperone Chain: A: PDB Molecule: hspb2,heat shock protein beta-2,heat shock protein beta-2, PDBTitle: a heterotetramer of human hspb2 and hspb3
72	c2d0gA	Alignment	not modelled	7.9	12	PDB header: hydrolase Chain: A: PDB Molecule: alpha-amylase i; PDBTitle: crystal structure of thermoactinomyces vulgaris r-47 alpha-2 amylase 1 (tva1) mutant d356n/e396q complexed with p5, a3 pullulan model oligosaccharide
73	d1pdoa	Alignment	not modelled	7.9	14	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: EIIA-man component-like
74	c6ezoH	Alignment	not modelled	7.8	21	PDB header: membrane protein Chain: H: PDB Molecule: translation initiation factor eif-2b subunit delta; PDBTitle: eukaryotic initiation factor eif2b in complex with isrib
75	c2k74A	Alignment	not modelled	7.7	14	PDB header: membrane protein, oxidoreductase Chain: A: PDB Molecule: disulfide bond formation protein b; PDBTitle: solution nmr structure of dsbb-ubiquinone complex
76	c3fpvC	Alignment	not modelled	7.7	22	PDB header: heme binding protein Chain: C: PDB Molecule: extracellular haem-binding protein; PDBTitle: crystal structure of hbps
77	c2bbjB	Alignment	not modelled	7.7	15	PDB header: metal transport/membrane protein Chain: B: PDB Molecule: divalent cation transport-related protein; PDBTitle: crystal structure of the cora mg2+ transporter

78	c6bwsA		Alignment	not modelled	7.6	17	PDB header: unknown function Chain: A: PDB Molecule: glycolate utilization protein; PDBTitle: crystal structure of efga from methylobacterium extorquens
79	d2gm3a1		Alignment	not modelled	7.3	16	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: Universal stress protein-like
80	c3gxxB		Alignment	not modelled	7.3	8	PDB header: transcription Chain: B: PDB Molecule: transcription elongation factor spt6; PDBTitle: structure of the sh2 domain of the candida glabrata2 transcription elongation factor spt6, crystal form b
81	c2kluA		Alignment	not modelled	7.3	13	PDB header: immune system, membrane protein Chain: A: PDB Molecule: t-cell surface glycoprotein cd4; PDBTitle: nmr structure of the transmembrane and cytoplasmic domains2 of human cd4
82	c4ap3A		Alignment	not modelled	7.2	17	PDB header: oxidoreductase Chain: A: PDB Molecule: steroid monooxygenase; PDBTitle: oxidized steroid monooxygenase bound to nadp
83	c2klrA		Alignment	not modelled	7.1	37	PDB header: chaperone Chain: A: PDB Molecule: alpha-crystallin b chain; PDBTitle: solid-state nmr structure of the alpha-crystallin domain in alphab-2 crystallin oligomers
84	d1ydga		Alignment	not modelled	7.1	15	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: WrbA-like
85	c2k9yA		Alignment	not modelled	7.0	17	PDB header: transferase Chain: A: PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
86	c2k9yB		Alignment	not modelled	7.0	17	PDB header: transferase Chain: B: PDB Molecule: ephrin type-a receptor 2; PDBTitle: epha2 dimeric structure in the lipidic bicelle at ph 5.0
87	c2z2uA		Alignment	not modelled	7.0	21	PDB header: metal binding protein Chain: A: PDB Molecule: upf0026 protein mj0257; PDBTitle: crystal structure of archaeal tyw1
88	c5ey5A		Alignment	not modelled	6.9	18	PDB header: lyase Chain: A: PDB Molecule: lbcats-a; PDBTitle: lbcats
89	c2fpqA		Alignment	not modelled	6.9	18	PDB header: ligase Chain: A: PDB Molecule: succinyl-coa ligase [gdp-forming] alpha-chain, PDBTitle: crystal structure of pig gtp-specific succinyl-coa synthetase in2 complex with gdp
90	c3ju7B		Alignment	not modelled	6.7	10	PDB header: transferase Chain: B: PDB Molecule: putative plp-dependent aminotransferase; PDBTitle: crystal structure of putative plp-dependent aminotransferase2 (np_978343.1) from bacillus cereus atcc 10987 at 2.19 a resolution
91	c6f2rE		Alignment	not modelled	6.7	37	PDB header: chaperone Chain: E: PDB Molecule: hspb2,heat shock protein beta-2,heat shock protein beta-2, PDBTitle: a hetrotetramer of human hspb2 and hspb3
92	c6f2rl		Alignment	not modelled	6.7	37	PDB header: chaperone Chain: I: PDB Molecule: hspb2,heat shock protein beta-2,heat shock protein beta-2, PDBTitle: a hetrotetramer of human hspb2 and hspb3
93	c3ptjA		Alignment	not modelled	6.6	10	PDB header: hydrolase Chain: A: PDB Molecule: upf0603 protein at1g54780, chloroplastic; PDBTitle: structural and functional analysis of arabidopsis thaliana thylakoid2 lumen protein attp18.3
94	d1f61a		Alignment	not modelled	6.6	19	Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Phosphoenolpyruvate mutase/Iscitrate lyase-like
95	c3qphA		Alignment	not modelled	6.4	11	PDB header: transcription Chain: A: PDB Molecule: trmb, a global transcription regulator; PDBTitle: the three-dimensional structure of trmb, a global transcriptional2 regulator of the hyperthermophilic archaeon pyrococcus furiosus in3 complex with sucrose
96	c5d6aA		Alignment	not modelled	6.4	20	PDB header: hydrolase Chain: A: PDB Molecule: predicted atpase of the abc class; PDBTitle: 2.7 angstrom crystal structure of abc transporter atpase from vibrio2 vulnificus in complex with adenylyl-imidodiphosphate (amp-pnp)
97	c2l8sA		Alignment	not modelled	6.4	13	PDB header: cell adhesion Chain: A: PDB Molecule: integrin alpha-1; PDBTitle: solution nmr structure of transmembrane and cytosolic regions of2 integrin alpha1 in detergent micelles
98	c3e96B		Alignment	not modelled	6.1	9	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from bacillus2 clausii
99	d2j8xa1		Alignment	not modelled	6.0	31	Fold: Uracil-DNA glycosylase-like Superfamily: Uracil-DNA glycosylase-like Family: Uracil-DNA glycosylase