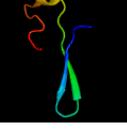
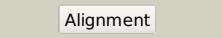
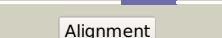
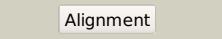
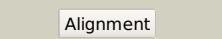
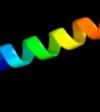
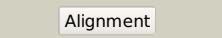
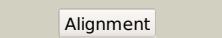
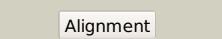
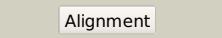
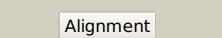
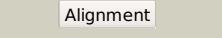


# Phyre<sup>2</sup>

Email	mdejesus@rockefeller.edu
Description	RVBD0789c_(-)_883454_884053
Date	Fri Jul 26 01:50:37 BST 2019
Unique Job ID	581211a59fdd0fc5

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c3f5dA</a>			39.9	16	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> protein ydea; <b>PDBTitle:</b> crystal structure of a protein of unknown function from bacillus2 subtilis
2	<a href="#">c3c4rC</a>			37.8	28	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> C: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of an uncharacterized protein encoded by2 cryptic prophage
3	<a href="#">d2bosa</a>			35.7	52	<b>Fold:</b> OB-fold <b>Superfamily:</b> Bacterial enterotoxins <b>Family:</b> Bacterial AB5 toxins, B-subunits
4	<a href="#">d2fb5a1</a>			34.8	27	<b>Fold:</b> Yojj-like <b>Superfamily:</b> Yojj-like <b>Family:</b> Yojj-like
5	<a href="#">d2auna2</a>			31.3	20	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> Class I glutamine amidotransferase-like <b>Family:</b> LD-carboxypeptidase A N-terminal domain-like
6	<a href="#">c3n7tA</a>			28.2	10	<b>PDB header:</b> protein binding <b>Chain:</b> A: <b>PDB Molecule:</b> macrophage binding protein; <b>PDBTitle:</b> crystal structure of a macrophage binding protein from coccidioides2 immitis
7	<a href="#">c4rv7C</a>			26.2	27	<b>PDB header:</b> transferase <b>Chain:</b> C: <b>PDB Molecule:</b> diadenylate cyclase; <b>PDBTitle:</b> characterization of an essential diadenylate cyclase
8	<a href="#">c4lruA</a>			23.1	12	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> glyoxalase iii (glutathione-independent); <b>PDBTitle:</b> crystal structure of glyoxalase iii (orf 19.251) from candida albicans
9	<a href="#">c1trIB</a>			22.8	35	<b>PDB header:</b> hydrolase (metalloprotease) <b>Chain:</b> B: <b>PDB Molecule:</b> thermolysin fragment 255 - 316; <b>PDBTitle:</b> nmr solution structure of the c-terminal fragment 255-3162 of thermolysin: a dimer formed by subunits having the3 native structure
10	<a href="#">c3kkIA</a>			22.2	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> probable chaperone protein hsp33; <b>PDBTitle:</b> crystal structure of functionally unknown hsp33 from saccharomyces cerevisiae
11	<a href="#">d1r4pb</a>			21.4	48	<b>Fold:</b> OB-fold <b>Superfamily:</b> Bacterial enterotoxins <b>Family:</b> Bacterial AB5 toxins, B-subunits

12	<a href="#">d1gg2a2</a>			20.5	19	<b>Fold:</b> Aminoacid dehydrogenase-like, N-terminal domain <b>Superfamily:</b> Aminoacid dehydrogenase-like, N-terminal domain <b>Family:</b> Malic enzyme N-domain
13	<a href="#">c6gyyB</a>			18.9	19	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> diadenylate cyclase; <b>PDBTitle:</b> crystal structure of daca from staphylococcus aureus, n166c/t172c2 double mutant
14	<a href="#">c3gdfA</a>			18.1	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> probable nadp-dependent mannitol dehydrogenase; <b>PDBTitle:</b> crystal structure of the nadp-dependent mannitol dehydrogenase from2 cladosporium herbarum.
15	<a href="#">d1d1dal</a>			13.2	43	<b>Fold:</b> Acyl carrier protein-like <b>Superfamily:</b> Retrovirus capsid dimerization domain-like <b>Family:</b> Retrovirus capsid protein C-terminal domain
16	<a href="#">c3hj8A</a>			11.8	17	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> catechol 1,2-dioxygenase; <b>PDBTitle:</b> crystal structure determination of catechol 1,2-dioxygenase from2 rhodococcus opacus 1cp in complex with 4-chlorocatechol
17	<a href="#">d2j0wa1</a>			10.8	47	<b>Fold:</b> Carbamate kinase-like <b>Superfamily:</b> Carbamate kinase-like <b>Family:</b> PyrH-like
18	<a href="#">d1zl0a2</a>			9.1	20	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> Class I glutamine amidotransferase-like <b>Family:</b> LD-carboxypeptidase A N-terminal domain-like
19	<a href="#">d1pj3a2</a>			9.1	22	<b>Fold:</b> Aminoacid dehydrogenase-like, N-terminal domain <b>Superfamily:</b> Aminoacid dehydrogenase-like, N-terminal domain <b>Family:</b> Malic enzyme N-domain
20	<a href="#">d2cdqa1</a>			9.0	47	<b>Fold:</b> Carbamate kinase-like <b>Superfamily:</b> Carbamate kinase-like <b>Family:</b> PyrH-like
21	<a href="#">c4o0IA</a>		not modelled	8.7	16	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> nadph-dependent 3-quinuclidinone reductase; <b>PDBTitle:</b> crystal structure of nadph-dependent 3-quinuclidinone reductase from2 rhodotorula rubra
22	<a href="#">c3lyhB</a>		not modelled	8.7	20	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> cobalamin (vitamin b12) biosynthesis cbix protein; <b>PDBTitle:</b> crystal structure of putative cobalamin (vitamin b12) biosynthesis2 cbix protein (yp_958415.1) from marinobacter aquaeolei vt8 at 1.60 a3 resolution
23	<a href="#">c3up8B</a>		not modelled	8.1	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> putative 2,5-diketo-d-gluconic acid reductase b; <b>PDBTitle:</b> crystal structure of a putative 2,5-diketo-d-gluconic acid reductase b
24	<a href="#">d1xq1a</a>		not modelled	8.1	25	<b>Fold:</b> NAD(P)-binding Rossmann-fold domains <b>Superfamily:</b> NAD(P)-binding Rossmann-fold domains <b>Family:</b> Tyrosine-dependent oxidoreductases
25	<a href="#">d1c4qa</a>		not modelled	8.1	48	<b>Fold:</b> OB-fold <b>Superfamily:</b> Bacterial enterotoxins <b>Family:</b> Bacterial AB5 toxins, B-subunits
26	<a href="#">d1bjba2</a>		not modelled	7.9	40	<b>Fold:</b> Immunoglobulin-like beta-sandwich <b>Superfamily:</b> Immunoglobulin <b>Family:</b> l set domains
27	<a href="#">d2bura1</a>		not modelled	7.8	25	<b>Fold:</b> Prealbumin-like <b>Superfamily:</b> Aromatic compound dioxygenase <b>Family:</b> Aromatic compound dioxygenase
						<b>Fold:</b> Aminoacid dehydrogenase-like, N-terminal domain

28	<a href="#">d1o0sa2</a>	Alignment	not modelled	7.7	23	<b>Superfamily:</b> Aminoacid dehydrogenase-like, N-terminal domain <b>Family:</b> Malic enzyme N-domain
29	<a href="#">d2hmfa1</a>	Alignment	not modelled	7.2	37	<b>Fold:</b> Carbamate kinase-like <b>Superfamily:</b> Carbamate kinase-like <b>Family:</b> PyrH-like
30	<a href="#">c5xftA_</a>	Alignment	not modelled	7.1	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dehydroascorbate reductase; <b>PDBTitle:</b> crystal structure of chlamydomonas reinhardtii dehydroascorbate2 reductase
31	<a href="#">c6hauA_</a>	Alignment	not modelled	6.4	15	<b>PDB header:</b> rna binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> mRNA export factor icp27 homolog; <b>PDBTitle:</b> kshv pan rna mta-response element fragment complexed with the globular2 domain of herpesvirus saimiri orf57
32	<a href="#">c3c1nA_</a>	Alignment	not modelled	6.3	37	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> probable aspartokinase; <b>PDBTitle:</b> crystal structure of allosteric inhibition threonine-sensitive2 aspartokinase from methanococcus jannaschii with l-threonine
33	<a href="#">c2azqA_</a>	Alignment	not modelled	6.3	26	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> catechol 1,2-dioxygenase; <b>PDBTitle:</b> crystal structure of catechol 1,2-dioxygenase from pseudomonas arvillae2 c-1
34	<a href="#">c2hs1B_</a>	Alignment	not modelled	6.3	48	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> putative peptidase m23; <b>PDBTitle:</b> crystal structure of putative peptidase m23 from2 pseudomonas aeruginosa, new york structural genomics3 consortium
35	<a href="#">c1vw46_</a>	Alignment	not modelled	6.2	14	<b>PDB header:</b> ribosome <b>Chain:</b> 6: <b>PDB Molecule:</b> 54s ribosomal protein l17, mitochondrial; <b>PDBTitle:</b> structure of the yeast mitochondrial large ribosomal subunit
36	<a href="#">d1g0wa1</a>	Alignment	not modelled	6.2	28	<b>Fold:</b> Guanido kinase N-terminal domain <b>Superfamily:</b> Guanido kinase N-terminal domain <b>Family:</b> Guanido kinase N-terminal domain
37	<a href="#">c5ou5C_</a>	Alignment	not modelled	6.2	18	<b>PDB header:</b> photosynthesis <b>Chain:</b> C: <b>PDB Molecule:</b> malic enzyme; <b>PDBTitle:</b> crystal structure of maize chloroplastic photosynthetic nadp(+)-2 dependent malic enzyme
38	<a href="#">c2j0wA_</a>	Alignment	not modelled	5.9	47	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> lysine-sensitive aspartokinase 3; <b>PDBTitle:</b> crystal structure of e. coli aspartokinase iii in complex2 with aspartate and adp (r-state)
39	<a href="#">d1zq1c1</a>	Alignment	not modelled	5.9	35	<b>Fold:</b> GatB/YqeY motif <b>Superfamily:</b> GatB/YqeY motif <b>Family:</b> GatB/GatE C-terminal domain-like
40	<a href="#">c5zb3B_</a>	Alignment	not modelled	5.9	15	<b>PDB header:</b> transcription <b>Chain:</b> B: <b>PDB Molecule:</b> orf57; <b>PDBTitle:</b> dimeric crystal structure of orf57 from kshv
41	<a href="#">c4z1mJ_</a>	Alignment	not modelled	5.8	86	<b>PDB header:</b> hydrolase <b>Chain:</b> J: <b>PDB Molecule:</b> atpase inhibitor, mitochondrial; <b>PDBTitle:</b> bovine f1-atpase inhibited by three copies of the inhibitor protein2 if1 crystallised in the presence of thiophosphate.
42	<a href="#">d1s68a_</a>	Alignment	not modelled	5.6	14	<b>Fold:</b> ATP-grasp <b>Superfamily:</b> DNA ligase/mRNA capping enzyme, catalytic domain <b>Family:</b> RNA ligase
43	<a href="#">d2jb0b1</a>	Alignment	not modelled	5.6	36	<b>Fold:</b> His-Me finger endonucleases <b>Superfamily:</b> His-Me finger endonucleases <b>Family:</b> HNH-motif
44	<a href="#">c2aw5A_</a>	Alignment	not modelled	5.5	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> nadp-dependent malic enzyme; <b>PDBTitle:</b> crystal structure of a human malic enzyme
45	<a href="#">c5vg2B_</a>	Alignment	not modelled	5.4	17	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> intradiol ring-cleavage dioxygenase; <b>PDBTitle:</b> intradiol ring-cleavage dioxygenase from tetranychus urticae
46	<a href="#">c4uhpA_</a>	Alignment	not modelled	5.4	24	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> large component of pyocin ap41; <b>PDBTitle:</b> crystal structure of the pyocin ap41 dnase-immunity complex
47	<a href="#">c3pl0B_</a>	Alignment	not modelled	5.4	26	<b>PDB header:</b> biosynthetic protein <b>Chain:</b> B: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of a bsma homolog (mpe_a2762) from methylobium2 petroleophilum pm1 at 1.91 a resolution
48	<a href="#">c3ty8A_</a>	Alignment	not modelled	5.3	22	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> polynucleotide 2',3'-cyclic phosphate phosphodiesterase / <b>PDBTitle:</b> crystal structure of c. thermocellum pnkp ligase domain apo form
49	<a href="#">c4tt3J_</a>	Alignment	not modelled	5.2	86	<b>PDB header:</b> hydrolase <b>Chain:</b> J: <b>PDB Molecule:</b> atpase inhibitor, mitochondrial; <b>PDBTitle:</b> the pathway of binding of the intrinsically disordered mitochondrial2 inhibitor protein to f1-atpase
50	<a href="#">c1xofA_</a>	Alignment	not modelled	5.1	100	<b>PDB header:</b> de novo protein <b>Chain:</b> A: <b>PDB Molecule:</b> bbahett1; <b>PDBTitle:</b> heterooligomeric beta beta alpha miniprotein
51	<a href="#">c2jesG_</a>	Alignment	not modelled	5.1	29	<b>PDB header:</b> viral protein <b>Chain:</b> G: <b>PDB Molecule:</b> portal protein; <b>PDBTitle:</b> portal protein (gp6) from bacteriophage spp1
52	<a href="#">c1fwxB_</a>	Alignment	not modelled	5.1	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> nitrous oxide reductase; <b>PDBTitle:</b> crystal structure of nitrous oxide reductase from p. denitrificans
53	<a href="#">c2boyC_</a>	Alignment	not modelled	5.1	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> C: <b>PDB Molecule:</b> 3-chlorocatechol 1,2-dioxygenase; <b>PDBTitle:</b> crystal structure of 3-chlorocatechol 1,2-dioxygenase from rhodococcus2 opacus 1cp