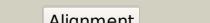
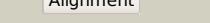
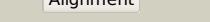
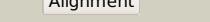
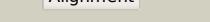
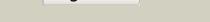
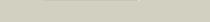
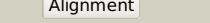
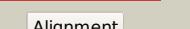
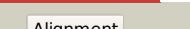
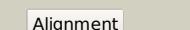
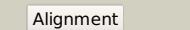
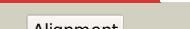
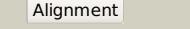
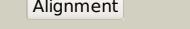
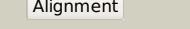
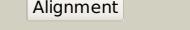
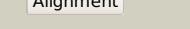
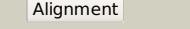
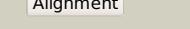
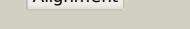


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD3628_(ppa)_4067602_4068090
Date	Fri Aug 9 18:20:31 BST 2019
Unique Job ID	97fe61144c4ac61b

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2uxsA_			100.0	100	PDB header: hydrolase Chain: A; PDB Molecule: inorganic pyrophosphatase; PDBTitle: 2.7a crystal structure of inorganic pyrophosphatase (rv3628)2 from mycobacterium tuberculosis at ph 7.5
2	d2prda_			100.0	52	Fold: OB-fold Superfamily: Inorganic pyrophosphatase Family: Inorganic pyrophosphatase
3	c4lugA_			100.0	39	PDB header: hydrolase Chain: A; PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of inorganic pyrophosphatase ppa1 from arabidopsis2 thaliana
4	c3ld3A_			100.0	43	PDB header: hydrolase Chain: A; PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of inorganic phosphatase from anaplasma2 phagocytophilum at 1.75a resolution
5	d1i40a_			100.0	45	Fold: OB-fold Superfamily: Inorganic pyrophosphatase Family: Inorganic pyrophosphatase
6	c3fq3H_			100.0	45	PDB header: hydrolase Chain: H; PDB Molecule: inorganic pyrophosphatase;bacterial/archaeal inorganic PDBTitle: crystal structure of inorganic phosphatase from brucella melitensis
7	c1ygzC_			100.0	43	PDB header: hydrolase Chain: C; PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of inorganic pyrophosphatase from helicobacter2 pylori
8	c5teaf_			100.0	36	PDB header: hydrolase Chain: F; PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of an inorganic pyrophosphatase from neisseria2 gonorrhoeae
9	c6n1cb_			100.0	46	PDB header: hydrolase Chain: B; PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of inorganic pyrophosphatase from legionella2 pneumophila philadelphia 1
10	d1udea_			100.0	48	Fold: OB-fold Superfamily: Inorganic pyrophosphatase Family: Inorganic pyrophosphatase
11	d1qeza_			100.0	46	Fold: OB-fold Superfamily: Inorganic pyrophosphatase Family: Inorganic pyrophosphatase

12	c3tr4C_			100.0	47	PDB header: hydrolase Chain: C: PDB Molecule: inorganic pyrophosphatase; PDBTitle: structure of an inorganic pyrophosphatase (ppa) from coxiella burnetii
13	c3d63B_			100.0	46	PDB header: hydrolase Chain: B: PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of inorganic pyrophosphatase from burkholderia2 pseudomallei
14	c3emjL_			100.0	44	PDB header: hydrolase Chain: L: PDB Molecule: inorganic pyrophosphatase; PDBTitle: 2.2 a crystal structure of inorganic pyrophosphatase from2 rickettsia prowazekii (p21 form)
15	d1twla_			100.0	46	Fold: OB-fold Superfamily: Inorganic pyrophosphatase Family: Inorganic pyrophosphatase
16	d1e9ga_			100.0	28	Fold: OB-fold Superfamily: Inorganic pyrophosphatase Family: Inorganic pyrophosphatase
17	c6c45A_			100.0	28	PDB header: hydrolase Chain: A: PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of human inorganic pyrophosphatase in the p2121212 space group
18	c4qlzA_			100.0	26	PDB header: hydrolase, metal binding protein Chain: A: PDB Molecule: sjchgc07024 protein; PDBTitle: the structure of inorganic pyrophosphatase from schistosoma japonicum
19	c5wrtB_			100.0	28	PDB header: hydrolase Chain: B: PDB Molecule: solute inorganic pyrophosphatase; PDBTitle: crystal structure of type i inorganic pyrophosphatase from toxoplasma2 gondii.
20	c5c5vB_			100.0	30	PDB header: hydrolase Chain: B: PDB Molecule: acidocalcisomal pyrophosphatase; PDBTitle: recombinant inorganic pyrophosphatase from t brucei brucei
21	c5cuvB_		not modelled	100.0	31	PDB header: metal binding protein Chain: B: PDB Molecule: acidocalcisomal pyrophosphatase; PDBTitle: crystal structure of trypanosoma cruzi vacuolar soluble2 pyrophosphatases in apo form
22	c5wruA_		not modelled	100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: probable inorganic pyrophosphatase; PDBTitle: crystal structure of type i inorganic pyrophosphatase from p2 falciparum
23	c3lo0A_		not modelled	100.0	38	PDB header: hydrolase Chain: A: PDB Molecule: inorganic pyrophosphatase; PDBTitle: crystal structure of inorganic pyrophosphatase from2 ehrlichia chaffeensis
24	c2dhxA_		not modelled	32.2	14	PDB header: rna binding protein Chain: A: PDB Molecule: poly (adp-ribose) polymerase family, member 10 PDBTitle: solution structure of the rrm domain in the human poly (adp-2 ribose) polymerase family, member 10 variant
25	c3ideD_		not modelled	30.2	21	PDB header: virus like particle Chain: D: PDB Molecule: capsid protein vp2; PDBTitle: structure of ipnv subviral particle
26	c1wwhB_		not modelled	30.0	15	PDB header: protein transport Chain: B: PDB Molecule: nucleoporin 35; PDBTitle: crystal structure of the mppn domain of mouse nup35
27	d1d02a_		not modelled	28.9	24	Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: Restriction endonuclease MunI
28	c2df7H_		not modelled	23.7	25	PDB header: virus like particle Chain: H: PDB Molecule: structural polyprotein vp2; PDBTitle: crystal structure of infectious bursal disease virus vp2 subviral2 particle

29	d2df7a1	Alignment	not modelled	22.5	25	Fold: Nucleoplasmin-like/VP (viral coat and capsid proteins) Superfamily: Positive stranded ssRNA viruses Family: Birnaviridae-like VP
30	c2yueA_	Alignment	not modelled	22.4	15	PDB header: rna binding protein Chain: A: PDB Molecule: protein neuralized; PDBTitle: solution structure of the neuz (nhr) domain in neuralized2 from drosophila melanogaster
31	d1wwha1	Alignment	not modelled	17.5	15	Fold: Ferrodoxin-like Superfamily: RNA-binding domain, RBD Family: Canonical RBD
32	c5cioA_	Alignment	not modelled	17.5	15	PDB header: metal binding protein Chain: A: PDB Molecule: pyrroloquinoline quinone biosynthesis protein pqqf; PDBTitle: crystal structure of pqqf
33	c5hnmC_	Alignment	not modelled	16.9	10	PDB header: hydrolase Chain: C: PDB Molecule: d-alanyl-d-alanine carboxypeptidase; PDBTitle: crystal structure of vancomycin resistance d,d-pentapeptidase vary2 e175a mutant from vanb-type resistance cassette in complex with 3zn(ii)
34	c2vtvA_	Alignment	not modelled	16.2	24	PDB header: hydrolase Chain: A: PDB Molecule: phb depolymerase phaz7; PDBTitle: phaz7 depolymerase from paucimonas lemoignei
35	d2fgea4	Alignment	not modelled	15.3	17	Fold: LuxS/MPP-like metallohydrolase Superfamily: LuxS/MPP-like metallohydrolase Family: MPP-like
36	d1hr6a1	Alignment	not modelled	15.3	9	Fold: LuxS/MPP-like metallohydrolase Superfamily: LuxS/MPP-like metallohydrolase Family: MPP-like
37	c2opdA_	Alignment	not modelled	15.1	19	PDB header: cell adhesion Chain: A: PDB Molecule: pilx; PDBTitle: structure of the neisseria meningitidis minor type iv pilin, pilx
38	c2l76A_	Alignment	not modelled	14.8	33	PDB header: transcription Chain: A: PDB Molecule: nfatc2-interacting protein; PDBTitle: solution nmr structure of human nfatc2ip_244_338, nesg target ht65a/ocsp target hs00387_244_338/sgc-3 toronto
39	c4joiA_	Alignment	not modelled	14.5	18	PDB header: dna binding protein Chain: A: PDB Molecule: cst complex subunit stn1; PDBTitle: crystal structure of the human telomeric stn1-ten1 complex
40	c2e63A_	Alignment	not modelled	13.3	29	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: kiaa1787 protein; PDBTitle: solution structure of the neuz domain in kiaa1787 protein
41	c3kztB_	Alignment	not modelled	12.9	22	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of protein of unknown function (np_812423.1) from 2 bacteroides thetaiotaomicron vpi-5482 at 2.10 a resolution
42	d1ppja1	Alignment	not modelled	11.5	9	Fold: LuxS/MPP-like metallohydrolase Superfamily: LuxS/MPP-like metallohydrolase Family: MPP-like
43	c1p0yA_	Alignment	not modelled	11.5	50	PDB header: transferase Chain: A: PDB Molecule: ribulose-1,5 bisphosphate carboxylase/oxygenase PDBTitle: crystal structure of the set domain of lsmt bound to2 melysine and adohcy
44	c4q7jD_	Alignment	not modelled	10.6	16	PDB header: translation/transferase Chain: D: PDB Molecule: 30s ribosomal protein s1; PDBTitle: complex structure of viral rna polymerase
45	d1p9qc3	Alignment	not modelled	10.1	30	Fold: Ferrodoxin-like Superfamily: EF-G C-terminal domain-like Family: Hypothetical protein AF0491, C-terminal domain
46	d1t95a3	Alignment	not modelled	9.5	30	Fold: Ferrodoxin-like Superfamily: EF-G C-terminal domain-like Family: Hypothetical protein AF0491, C-terminal domain
47	c6jo52_	Alignment	not modelled	9.3	43	PDB header: photosynthesis Chain: 2: PDB Molecule: chlorophyll a-b binding protein, chloroplastic; PDBTitle: structure of the green algal photosystem i supercomplex with light-2 harvesting complex i
48	d1x9na2	Alignment	not modelled	9.2	17	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: DNA ligase/mRNA capping enzyme postcatalytic domain
49	c3mjda_	Alignment	not modelled	9.2	20	PDB header: transferase Chain: A: PDB Molecule: orotate phosphoribosyltransferase; PDBTitle: 1.9 angstrom crystal structure of orotate phosphoribosyltransferase2 (pyre) francisella tularensis.
50	c4qmfB_	Alignment	not modelled	8.7	12	PDB header: rna binding protein Chain: B: PDB Molecule: krr1 small subunit processome component; PDBTitle: structure of the krr1 and faf1 complex from saccharomyces cerevisiae
51	c4eskA_	Alignment	not modelled	8.4	19	PDB header: immune system Chain: A: PDB Molecule: leukocyte-associated immunoglobulin-like receptor 1; PDBTitle: crystal structure of a strand-swapped dimer of mouse leukocyte-2 associated immunoglobulin-like receptor 1 (nysgrc-006047)ig-like3 domain
52	c4jw1A_	Alignment	not modelled	8.3	24	PDB header: hydrolase activator Chain: A: PDB Molecule: effector protein b; PDBTitle: crystal structure of n-terminal 618-residue fragment of lepb from legionella pneumophila
53	c2jnsA_	Alignment	not modelled	7.9	7	PDB header: unknown function Chain: A: PDB Molecule: bromodomain-containing protein 4; PDBTitle: solution structure of the bromodomain-containing protein

						42 et domain
54	c5xswA	Alignment	not modelled	7.8	19	PDB header: hydrolase Chain: A: PDB Molecule: chitinase; PDBTitle: crystal structure of an archaeal chitinase in the substrate-complex2 form (p63)
55	c2rukA	Alignment	not modelled	7.7	33	PDB header: transcription Chain: A: PDB Molecule: cellular tumor antigen p53; PDBTitle: solution structure of the complex between p53 transactivation domain 22 and tfiIiI p62 ph domain
56	d1tlea2	Alignment	not modelled	7.6	15	Fold: Ferredoxin-like Superfamily: Protease propeptides/inhibitors Family: Subtilase propeptides/inhibitors
57	c2mmpA	Alignment	not modelled	7.4	24	PDB header: ribosomal protein Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution structure of a ribosomal protein
58	c4zgnA	Alignment	not modelled	6.9	9	PDB header: cell cycle Chain: A: PDB Molecule: cell division cycle protein 123; PDBTitle: structure cdc123 complexed with the c-terminal domain of eif2gamma
59	c3k7bA	Alignment	not modelled	6.4	50	PDB header: viral protein Chain: A: PDB Molecule: protein a33; PDBTitle: the structure of the poxvirus a33 protein reveals a dimer of unique c-2 type lectin-like domains.
60	d1pzna1	Alignment	not modelled	6.2	9	Fold: SAM domain-like Superfamily: Rad51 N-terminal domain-like Family: DNA repair protein Rad51, N-terminal domain
61	c5hytC	Alignment	not modelled	6.2	5	PDB header: immune system Chain: C: PDB Molecule: precursor to protein sir22; PDBTitle: structure of human c4b-binding protein alpha chain CCP domains 1 and 22 in complex with the hypervariable region of group a streptococcus m223 protein
62	c5hytE	Alignment	not modelled	6.2	5	PDB header: immune system Chain: E: PDB Molecule: precursor to protein sir22; PDBTitle: structure of human c4b-binding protein alpha chain CCP domains 1 and 22 in complex with the hypervariable region of group a streptococcus m223 protein
63	c2e4mC	Alignment	not modelled	6.1	27	PDB header: toxin Chain: C: PDB Molecule: ha-17; PDBTitle: crystal structure of hemagglutinin subcomponent complex (ha-2 33/ha-17) from clostridium botulinum serotype d strain 4947
64	c5hytA	Alignment	not modelled	6.0	5	PDB header: immune system Chain: A: PDB Molecule: precursor to protein sir22; PDBTitle: structure of human c4b-binding protein alpha chain CCP domains 1 and 22 in complex with the hypervariable region of group a streptococcus m223 protein
65	c5hytG	Alignment	not modelled	6.0	5	PDB header: immune system Chain: G: PDB Molecule: precursor to protein sir22; PDBTitle: structure of human c4b-binding protein alpha chain CCP domains 1 and 22 in complex with the hypervariable region of group a streptococcus m223 protein
66	c2przB	Alignment	not modelled	5.9	22	PDB header: transferase Chain: B: PDB Molecule: orotate phosphoribosyltransferase 1; PDBTitle: s. cerevisiae orotate phosphoribosyltransferase complexed with omp
67	c4x8yA	Alignment	not modelled	5.9	16	PDB header: membrane protein Chain: A: PDB Molecule: membrane-associated progesterone receptor component 1; PDBTitle: crystal structure of human pgrmc1 cytochrome b5-like domain
68	d1hmca	Alignment	not modelled	5.7	22	Fold: 4-helical cytokines Superfamily: 4-helical cytokines Family: Short-chain cytokines
69	c5yl1A	Alignment	not modelled	5.7	43	PDB header: viral protein Chain: A: PDB Molecule: capsid protein; PDBTitle: t=1 subviral particle of penaeus vannamei nodavirus capsid protein2 deletion mutant (delta 1-37 & 251-368)
70	c4yn7A	Alignment	not modelled	5.7	16	PDB header: transcription Chain: A: PDB Molecule: yfir; PDBTitle: non-oxidized yfir
71	c3cx5L	Alignment	not modelled	5.7	8	PDB header: oxidoreductase Chain: L: PDB Molecule: cytochrome b-c1 complex subunit 1, mitochondrial; PDBTitle: structure of complex iii with bound cytochrome c in reduced state and2 definition of a minimal core interface for electron transfer.
72	d2ghpa1	Alignment	not modelled	5.6	11	Fold: Ferredoxin-like Superfamily: RNA-binding domain, RBD Family: Canonical RBD
73	c1ayra	Alignment	not modelled	5.6	18	PDB header: sensory transduction Chain: A: PDB Molecule: arrestin; PDBTitle: arrestin from bovine rod outer segments
74	c6izLB	Alignment	not modelled	5.6	43	PDB header: virus Chain: B: PDB Molecule: mud crab tombus-like virus; PDBTitle: cryo-em structure of mud crab tombus-like virus at 3.3 angstroms2 resolution
75	d1w7ca3	Alignment	not modelled	5.4	24	Fold: Cystatin-like Superfamily: Amine oxidase N-terminal region Family: Amine oxidase N-terminal region
76	c6ab6A	Alignment	not modelled	5.3	43	PDB header: virus like particle Chain: A: PDB Molecule: capsid protein; PDBTitle: cryo-em structure of t=3 penaeus vannamei nodavirus
77	d1q2la1	Alignment	not modelled	5.3	11	Fold: LuxS/MPP-like metallohydrolase Superfamily: LuxS/MPP-like metallohydrolase Family: MPP-like
						Fold: TraM-like

78	d2g7oa1	Alignment	not modelled	5.3	15	Superfamily: TraM-like Family: TraM-like
79	c4cw5B	Alignment	not modelled	5.2	8	PDB header: oxidoreductase Chain: B: PDB Molecule: dfna; PDBTitle: crystal structure of the enoyl reductase domain of dfna2 from bacillus amyloliquefaciens
80	c6i9bA	Alignment	not modelled	5.2	14	PDB header: rna binding protein Chain: A: PDB Molecule: la-related protein 4; PDBTitle: nmr structure of the la module from human larp4a