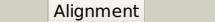
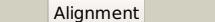
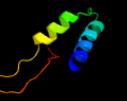
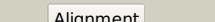
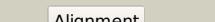
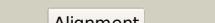
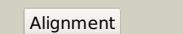
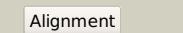
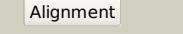
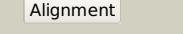
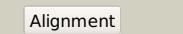
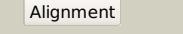
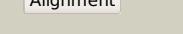


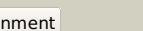
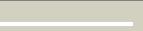
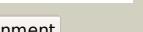
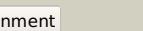
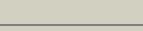
Phyre²

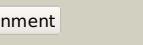
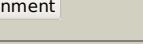
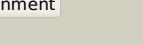
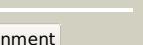
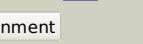
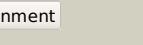
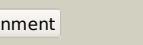
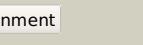
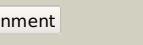
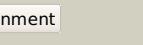
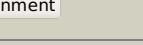
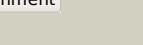
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Description	RVBD1031_(kdpC)_1155857_1156426
Date	Wed Jul 31 22:05:10 BST 2019
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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5mrwG	 Alignment		100.0	46	PDB header: hydrolase Chain: G; PDB Molecule: potassium-transporting atpase kdpc subunit; PDBTitle: structure of the kdpfabc complex
2	c4oxqB	 Alignment		73.5	17	PDB header: metal binding protein Chain: B; PDB Molecule: manganese abc transporter, periplasmic-binding protein PDBTitle: structure of staphylococcus pseudintermedius metal-binding protein2 sita in complex with zinc
3	c4k3vA	 Alignment		58.7	15	PDB header: transport protein Chain: A; PDB Molecule: abc superfamily atp binding cassette transporter, binding PDBTitle: structure of staphylococcus aureus mntc
4	d1hq1a	 Alignment		55.4	25	Fold: Signal peptide-binding domain Superfamily: Signal peptide-binding domain Family: Signal peptide-binding domain
5	d1dula	 Alignment		54.5	23	Fold: Signal peptide-binding domain Superfamily: Signal peptide-binding domain Family: Signal peptide-binding domain
6	d1qb2a	 Alignment		53.3	33	Fold: Signal peptide-binding domain Superfamily: Signal peptide-binding domain Family: Signal peptide-binding domain
7	c4aktB	 Alignment		53.1	22	PDB header: hydrolase/peptide Chain: B; PDB Molecule: thiazoline oxidase/subtilisin-like protease; PDBTitle: patg macrocyclase in complex with peptide
8	c4ue4C	 Alignment		51.8	27	PDB header: translation Chain: C; PDB Molecule: signal recognition particle protein; PDBTitle: structural basis for targeting and elongation arrest of bacillus2 signal recognition particle
9	c2jqeA	 Alignment		51.4	21	PDB header: signaling protein Chain: A; PDB Molecule: signal recognition 54 kda protein; PDBTitle: sution structure of af54 m-domain
10	c4xcoC	 Alignment		50.0	12	PDB header: rna binding protein Chain: C; PDB Molecule: signal recognition particle 54 kda protein,signal sequence; PDBTitle: signal-sequence induced conformational changes in the signal2 recognition particle
11	d2ffha2	 Alignment		49.1	27	Fold: Signal peptide-binding domain Superfamily: Signal peptide-binding domain Family: Signal peptide-binding domain

12	c3ipwA_			47.0	11	PDB header: hydrolase Chain: A: PDB Molecule: hydrolase tatd family protein; PDBTitle: crystal structure of hydrolase tatd family protein from entamoeba2 histolytica
13	d1qzxa2			46.2	23	Fold: Signal peptide-binding domain Superfamily: Signal peptide-binding domain Family: Signal peptide-binding domain
14	c3e2vA_			43.6	14	PDB header: hydrolase Chain: A: PDB Molecule: 3'-5'-exonuclease; PDBTitle: crystal structure of an uncharacterized amidohydrolase from2 saccharomyces cerevisiae
15	c3rcmA_			43.5	11	PDB header: hydrolase Chain: A: PDB Molecule: tatd family hydrolase; PDBTitle: crystal structure of efi target 500140:tatd family hydrolase from2 pseudomonas putida
16	c3gg7A_			41.2	22	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized metalloprotein; PDBTitle: crystal structure of an uncharacterized metalloprotein from2 deinococcus radiodurans
17	d1xwya1			35.6	9	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: TatD Mg-dependent DNase-like
18	d1j6oa_			35.4	13	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: TatD Mg-dependent DNase-like
19	d1zzma1			28.3	7	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: TatD Mg-dependent DNase-like
20	c2y1hA_			26.1	21	PDB header: hydrolase Chain: A: PDB Molecule: putative deoxyribonuclease tatdn3; PDBTitle: crystal structure of the human tatd-domain protein 3 (tatdn3)
21	c3qlIB_		not modelled	25.0	18	PDB header: lyase Chain: B: PDB Molecule: citrate lyase; PDBTitle: crystal structure of ripc from yersinia pestis
22	c4cl2A_		not modelled	23.4	29	PDB header: transport protein Chain: A: PDB Molecule: periplasmic solute binding protein; PDBTitle: structure of periplasmic metal binding protein from candidatus2 liberibacter asiaticus
23	c1toaA_		not modelled	23.2	17	PDB header: binding protein Chain: A: PDB Molecule: protein (periplasmic binding protein troa); PDBTitle: periplasmic zinc binding protein troa from treponema pallidum
24	d1toaa_		not modelled	23.2	17	Fold: Chelatase-like Superfamily: "Helical backbone" metal receptor Family: TroA-like
25	c2xioA_		not modelled	22.7	6	PDB header: hydrolase Chain: A: PDB Molecule: putative deoxyribonuclease tatdn1; PDBTitle: structure of putative deoxyribonuclease tatdn1 isoform a
26	c4ysnD_		not modelled	22.5	41	PDB header: isomerase Chain: D: PDB Molecule: putative 4-aminobutyrate aminotransferase; PDBTitle: structure of aminoacid racemase in complex with plp
27	d2ijob1		not modelled	21.6	33	Fold: Trypsin-like serine proteases Superfamily: Trypsin-like serine proteases Family: Viral proteases
28	c3e90B_		not modelled	21.0	33	PDB header: hydrolase Chain: B: PDB Molecule: ns3 protease; PDBTitle: west nile vi rus ns2b-ns3protease in complexed with2 inhibitor naph-kkr-h
						PDB header: metal transport

29	c2ps3A		Alignment	not modelled	21.0	17	Chain: A: PDB Molecule: high-affinity zinc uptake system protein znua; PDBTitle: structure and metal binding properties of znua, a periplasmic zinc2 transporter from escherichia coli
30	d1befa		Alignment	not modelled	19.9	28	Fold: Trypsin-like serine proteases Superfamily: Trypsin-like serine proteases Family: Viral proteases
31	c2ordA		Alignment	not modelled	19.8	19	PDB header: transferase Chain: A: PDB Molecule: acetylornithine aminotransferase; PDBTitle: crystal structure of acetylornithine aminotransferase (ec 2.6.1.11)2 (acoat) (tm1785) from thermotoga maritima at 1.40 a resolution PDB header: viral protein,hydrolase Chain: A: PDB Molecule: fusion protein of nonstructural protein 2b and PDBTitle: crystal structure of dengue virus 1 ns2b/ns3 protease active site2 mutant
32	c3lkWA		Alignment	not modelled	19.8	28	PDB header: ribosome Chain: W: PDB Molecule: signal recognition particle 54 kda protein (srp54); PDBTitle: model of mammalian srp bound to 80s rncs
33	c2j37W		Alignment	not modelled	19.2	33	PDB header: metal binding protein Chain: B: PDB Molecule: high-affinity zinc uptake system protein znua; PDBTitle: a glance into the metal binding specificity of troa: where elaborate2 behaviors occur in the active center
34	c3mfqB		Alignment	not modelled	19.1	19	PDB header: transcription Chain: A: PDB Molecule: putative transcriptional regulator transcription regulator PDBTitle: crystal structure of the arac-like transcriptional activator cuxr
35	c5nlaA		Alignment	not modelled	18.8	20	Fold: Cyclophilin-like Superfamily: Cyclophilin-like Family: PH0987 C-terminal domain-like
36	d2phcb1		Alignment	not modelled	18.6	21	PDB header: transferase Chain: B: PDB Molecule: penicillin binding protein transpeptidase domain protein; PDBTitle: crystal structure of e. coli penicillin binding protein 3,2 domain v88-s165
37	c4bjqB		Alignment	not modelled	18.6	23	Fold: Trypsin-like serine proteases Superfamily: Trypsin-like serine proteases Family: Viral proteases
38	d2fomb1		Alignment	not modelled	18.5	28	PDB header: signaling protein Chain: C: PDB Molecule: signal recognition 54 kda protein; PDBTitle: crystal structure of the srp54-srp19-7s.s srp rna complex2 of m. jannaschii
39	c2v3cc		Alignment	not modelled	18.4	13	PDB header: hydrolase Chain: B: PDB Molecule: ns2b-ns3 protease,ns2b-ns3 protease; PDBTitle: crystal structure of zika virus ns2b-ns3 protease in complex with a2 boronate inhibitor
40	c5lc0B		Alignment	not modelled	18.3	28	PDB header: viral protein Chain: A: PDB Molecule: ns2b-ns3 protease; PDBTitle: ns2b-ns3 protease from dengue virus at ph 8.5
41	c4m9mA		Alignment	not modelled	18.2	28	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Glyceraldehyde-3-phosphate dehydrogenase-like, N-terminal domain
42	d1vko1		Alignment	not modelled	18.2	22	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative tadt related dnase; PDBTitle: crystal structure of the tadt deoxyribonuclease mw0446 from2 staphylococcus aureus. northeast structural genomics consortium3 target zr237.
43	c2gzxB		Alignment	not modelled	18.0	17	PDB header: high density lipoproteins Chain: A: PDB Molecule: apoai; PDBTitle: the helix-hinge-helix structural motif in human2 apolipoprotein ai determined by nmr spectroscopy, 13 structure
44	c1gw4A		Alignment	not modelled	17.6	22	PDB header: hydrolyase Chain: A: PDB Molecule: serine protease subunit ns2b, serine protease ns3; PDBTitle: west nile virus ns2b-ns3 protease in complex with 3,4-2 dichlorophenylacetyl-lys-lys-gcma
45	c2yolA		Alignment	not modelled	17.5	28	PDB header: isomerase Chain: A: PDB Molecule: alpha-amino-epsilon-caprolactam racemase; PDBTitle: the crystal structure of alpha-amino-epsilon-caprolactam racemase from2 achromobacter obae
46	c3dxvA		Alignment	not modelled	17.0	30	PDB header: rna binding protein, transport protein Chain: A: PDB Molecule: signal recognition 54 kda protein; PDBTitle: structures of srp54 and srp19, the two proteins assembling the2 ribonucleic core of the signal recognition particle from the archaeon3 pyrococcus furiosus.
47	c3dm5A		Alignment	not modelled	16.7	21	PDB header: ribozyme Chain: I: PDB Molecule: 50s ribosomal protein l10; PDBTitle: rnc in complex with srp
48	c5gafi		Alignment	not modelled	16.6	23	PDB header: RNA-binding protein Chain: A: PDB Molecule: signal recognition particle protein,signal recognition PDBTitle: structure of the e. coli signal recognition particle
49	c2iy3A		Alignment	not modelled	16.5	21	PDB header: lyase Chain: A: PDB Molecule: citrate lyase subunit beta-like protein; PDBTitle: crystal structure of protein cite from mycobacterium tuberculosis in2 complex with magnesium, pyruvate and coenzyme a
50	c6arba		Alignment	not modelled	15.2	23	PDB header: metal binding protein Chain: B: PDB Molecule: periplasmic solute binding protein; PDBTitle: structure of a zn abc transporter substrate binding protein from2 paracoccus denitrificans
51	c4xrvB		Alignment	not modelled	15.1	36	PDB header: hydrolase Chain: A: PDB Molecule: subtilisin-like protein; PDBTitle: structure of self-cleaved protease domain of pata
52	c3zxxA		Alignment	not modelled	14.6	20	

53	c1qzwC		Alignment	not modelled	14.6	23	PDB header: signaling protein/rna Chain: C; PDB Molecule: signal recognition 54 kda protein; PDBTitle: crystal structure of the complete core of archaeal srp and2 implications for inter-domain communication
54	c2j289		Alignment	not modelled	14.5	23	PDB header: ribosome Chain: 9; PDB Molecule: signal recognition particle 54; PDBTitle: model of e. coli srp bound to 70s rncs
55	c2zp2B		Alignment	not modelled	14.5	17	PDB header: transferase inhibitor Chain: B; PDB Molecule: kinase a inhibitor; PDBTitle: c-terminal domain of kipi from bacillus subtilis
56	c5oqmk		Alignment	not modelled	14.3	14	PDB header: transcription Chain: K; PDB Molecule: dna-directed rna polymerase ii subunit rpb11; PDBTitle: structure of yeast transcription pre-initiation complex with tfilh and2 core mediator
57	c1vkoA		Alignment	not modelled	14.2	24	PDB header: isomerase Chain: A; PDB Molecule: inositol-3-phosphate synthase; PDBTitle: crystal structure of inositol-3-phosphate synthase (ce21227) from2 caenorhabditis elegans at 2.30 a resolution
58	c1x3wB		Alignment	not modelled	14.1	5	PDB header: hydrolase Chain: B; PDB Molecule: uv excision repair protein rad23; PDBTitle: structure of a peptide:n-glycanase-rad23 complex
59	d1yixa1		Alignment	not modelled	14.1	16	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: TatD Mg-dependent DNase-like
60	c5x3tA		Alignment	not modelled	14.1	33	PDB header: antitoxin/toxin Chain: A; PDB Molecule: antitoxin vapb26; PDBTitle: vapbc from mycobacterium tuberculosis
61	d2fp7b1		Alignment	not modelled	14.0	23	Fold: Trypsin-like serine proteases Superfamily: Trypsin-like serine proteases Family: Viral proteases
62	c6n39A		Alignment	not modelled	13.9	12	PDB header: transferase Chain: A; PDB Molecule: dephospho-coa kinase; PDBTitle: crystal structure of an dephospho-coa kinase coae from mycobacterium2 paratuberculosis
63	d2pv4a1		Alignment	not modelled	13.9	32	Fold: Sama2622-like Superfamily: Sama2622-like Family: Sama2622-like
64	c2pb2B		Alignment	not modelled	13.8	22	PDB header: transferase Chain: B; PDB Molecule: acetylornithine/succinylaminopimelate aminotransferase; PDBTitle: structure of biosynthetic n-acetylornithine aminotransferase from2 salmonella typhimurium: studies on substrate specificity and3 inhibitor binding
65	c4aksA		Alignment	not modelled	13.3	23	PDB header: hydrolase Chain: A; PDB Molecule: thiazoline oxidase/subtilisin-like protease; PDBTitle: patg macrocyclase domain
66	c5vxsf		Alignment	not modelled	13.2	21	PDB header: lyase Chain: F; PDB Molecule: citrate lyase subunit beta-like protein, mitochondrial; PDBTitle: crystal structure analysis of human clybl in apo form
67	c3hjtB		Alignment	not modelled	13.1	25	PDB header: cell adhesion, transport protein Chain: B; PDB Molecule: lmb; PDBTitle: structure of laminin binding protein (lmb) of streptococcus agalactiae2 a bifunctional protein with adhesin and metal transporting activity
68	d1ohwa		Alignment	not modelled	13.0	19	Fold: PLP-dependent transferase-like Superfamily: PLP-dependent transferases Family: GABA-aminotransferase-like
69	c4cdic		Alignment	not modelled	13.0	21	PDB header: membrane protein Chain: C; PDB Molecule: predicted protein; PDBTitle: crystal structure of acrb-acrz complex
70	d1oqya3		Alignment	not modelled	12.9	23	Fold: XPC-binding domain Superfamily: XPC-binding domain Family: XPC-binding domain
71	c2fvmA		Alignment	not modelled	12.9	19	PDB header: hydrolase Chain: A; PDB Molecule: dihydropyrimidinase; PDBTitle: crystal structure of dihydropyrimidinase from saccharomyces kluyveri2 in complex with the reaction product n-carbamyl-beta-alanine
72	c2ma3A		Alignment	not modelled	12.5	29	PDB header: replication Chain: A; PDB Molecule: dna replication initiator (cdc21/cdc54); PDBTitle: nmr solution structure of the c-terminus of the minichromosome2 maintenance protein mcm from methanothermobacter thermautotrophicus
73	c4v1ag		Alignment	not modelled	12.4	23	PDB header: ribosome Chain: G; PDB Molecule: large subunit of the mammalian mitoribosome, part 22 of 2
74	c6gcse		Alignment	not modelled	11.3	23	PDB header: oxidoreductase Chain: F; PDB Molecule: nufm subunit; PDBTitle: cryo-em structure of respiratory complex i from yarrowia lipolytica
75	c5n9jb		Alignment	not modelled	11.3	13	PDB header: transcription Chain: B; PDB Molecule: mediator of rna polymerase ii transcription subunit 10; PDBTitle: core mediator of transcriptional regulation
76	d2r6gf1		Alignment	not modelled	11.1	21	Fold: MalF N-terminal region-like Superfamily: MalF N-terminal region-like Family: MalF N-terminal region-like
77	c1wnfA		Alignment	not modelled	11.1	16	PDB header: hydrolase Chain: A; PDB Molecule: l-asparaginase; PDBTitle: crystal structure of ph0066 from pyrococcus horikoshii
							PDB header: transferase

78	c2kykB		not modelled	11.0	22	Chain: B: PDB Molecule: beta-transaminase; PDBTitle: structural determinants of the beta-selectivity of a bacterial2 aminotransferase
79	d1e5pa		not modelled	10.6	14	Fold: Lipocalins Superfamily: Lipocalins Family: Retinol binding protein-like
80	d1afwa2		not modelled	10.6	23	Fold: Thiolase-like Superfamily: Thiolase-like Family: Thiolase-related
81	c3thgA		not modelled	10.6	13	PDB header: protein binding Chain: A: PDB Molecule: ribulose bisphosphate carboxylase/oxygenase activase 1, PDBTitle: crystal structure of the creosote rubisco activase c-domain
82	c1p1hD		not modelled	10.5	15	PDB header: isomerase Chain: D: PDB Molecule: inositol-3-phosphate synthase; PDBTitle: crystal structure of the 1l-myo-inositol/nad+ complex
83	c3vs9F		not modelled	9.9	17	PDB header: transferase Chain: F: PDB Molecule: type iii polyketide synthase; PDBTitle: crystal structure of type iii pks arsc mutant
84	d1d8ca		not modelled	9.9	24	Fold: TIM beta/alpha-barrel Superfamily: Malate synthase G Family: Malate synthase G
85	c4oddB		not modelled	9.9	7	PDB header: allergen Chain: B: PDB Molecule: lipocalin allergen; PDBTitle: crystal structure of a dog lipocalin allergen
86	c3beyC		not modelled	9.8	8	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: conserved protein o27018; PDBTitle: crystal structure of the protein o27018 from methanobacterium2 thermoautotrophicum. northeast structural genomics consortium target3 tt217
87	c2k9sA		not modelled	9.7	23	PDB header: transcription Chain: A: PDB Molecule: arabinose operon regulatory protein; PDBTitle: solution structure of dna binding domain of e. coli arac
88	c5mmjw		not modelled	9.6	57	PDB header: ribosome Chain: W: PDB Molecule: PDBTitle: structure of the small subunit of the chloroplast ribosome
89	c1u5vA		not modelled	9.6	23	PDB header: lyase Chain: A: PDB Molecule: cite; PDBTitle: structure of cite complexed with triphosphate group of atp form2 mycobacterium tuberculosis
90	d1gnsa		not modelled	9.5	21	Fold: Subtilisin-like Superfamily: Subtilisin-like Family: Subtilases
91	c2as9B		not modelled	9.5	9	PDB header: hydrolase Chain: B: PDB Molecule: serine protease; PDBTitle: functional and structural characterization of spl proteases from2 staphylococcus aureus
92	d1tw3a1		not modelled	9.4	21	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Plant O-methyltransferase, N-terminal domain
93	c2ee7A		not modelled	9.3	14	PDB header: structural protein Chain: A: PDB Molecule: sperm flagellar protein 1; PDBTitle: solution structure of the ch domain from human sperm2 flagellar protein 1
94	c2ov3A		not modelled	9.3	33	PDB header: transport protein Chain: A: PDB Molecule: periplasmic binding protein component of an abc type zinc PDBTitle: crystal structure of 138-173 znu deletion mutant plus zinc bound
95	d1rp3a1		not modelled	9.2	22	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Sigma3 and sigma4 domains of RNA polymerase sigma factors Family: Sigma3 domain
96	c3c19A		not modelled	9.2	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein mk0293; PDBTitle: crystal structure of protein mk0293 from methanopyrus kandleri av19
97	c2mxbA		not modelled	9.2	50	PDB header: membrane protein Chain: A: PDB Molecule: erythropoietin receptor; PDBTitle: structure of the transmembrane domain of the mouse erythropoietin2 receptor
98	c5xtdo		not modelled	9.1	23	PDB header: oxidoreductase/electron transport Chain: O: PDB Molecule: nadh dehydrogenase [ubiquinone] flavoprotein 2, PDBTitle: cryo-em structure of human respiratory complex i
99	c2huoA		not modelled	9.1	15	PDB header: oxidoreductase Chain: A: PDB Molecule: inositol oxygenase; PDBTitle: crystal structure of mouse myo-inositol oxygenase in complex with2 substrate