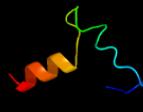


Phyre²

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Description	RVBD1961 (-) _2204219_2204713
Date	Mon Aug 5 13:25:06 BST 2019
Unique Job ID	142acb9eeeb90d4e

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2f0cc			55.2	33	PDB header: viral protein Chain: C; PDB Molecule: phage tp901-1 orf49 (bpp); PDBTitle: structure of the receptor binding protein (orf49, bpp) from lactophage2 tp901-1
2	d2f0ca1			49.5	33	Fold: Virus attachment protein globular domain Superfamily: Virus attachment protein globular domain Family: Lactophage receptor-binding protein head domain
3	c3u6xF			47.2	33	PDB header: viral protein Chain: F; PDB Molecule: bpp; PDBTitle: phage tp901-1 baseplate tripod
4	d1zrua1			47.0	50	Fold: Virus attachment protein globular domain Superfamily: Virus attachment protein globular domain Family: Lactophage receptor-binding protein head domain
5	c3d8mA			46.7	50	PDB header: virus/viral protein Chain: A; PDB Molecule: baseplate protein, receptor binding protein; PDBTitle: crystal structure of a chimeric receptor binding protein from2 lactococcal phages subspecies tp901-1 and p2
6	c3da0C			46.0	50	PDB header: viral protein Chain: C; PDB Molecule: cleaved chimeric receptor binding protein from PDBTitle: crystal structure of a cleaved form of a chimeric receptor binding2 protein from lactococcal phages subspecies tp901-1 and p2
7	c5l6nl			41.1	63	PDB header: hydrolase Chain: I; PDB Molecule: thrombin inhibitor madanin 1; PDBTitle: disulfated madanin-thrombin complex
8	d2dsma1			24.2	45	Fold: Yqal-like Superfamily: Yqal-like Family: Yqal-like
9	c4v194			17.1	38	PDB header: ribosome Chain: 4; PDB Molecule: mitoribosomal protein bl31m, mrpl55; PDBTitle: structure of the large subunit of the mammalian mitoribosome, part 12 of 2
10	c4fc5A			14.5	21	PDB header: unknown function Chain: A; PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of ton_0340
11	c5kpeA			13.7	41	PDB header: de novo protein Chain: A; PDB Molecule: de novo beta sheet design protein or664; PDBTitle: solution nmr structure of denovo beta sheet design protein, northeast2 structural genomics consortium (nsgc) target or664

12	c3ij6A_	Alignment		13.6	15	PDB header: hydrolase Chain: A: PDB Molecule: uncharacterized metal-dependent hydrolase; PDBTitle: crystal structure of an uncharacterized metal-dependent hydrolase from 2 lactobacillus acidophilus
13	c5jp6A_	Alignment		13.3	21	PDB header: hydrolase Chain: A: PDB Molecule: putative polysaccharide deacetylase; PDBTitle: bdellovibrio bacteriovorus peptidoglycan deacetylase bd3279
14	d2gwga1	Alignment		13.2	8	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: PP1699/LP2961-like
15	c2nchA_	Alignment		13.1	30	PDB header: translation Chain: A: PDB Molecule: translation initiation factor if-1; PDBTitle: solution structure of translation initiation factor if1 from wolbachia2 endosymbiont strain trs of brugia malayi
16	c2o5rA_	Alignment		12.6	38	PDB header: ligase Chain: A: PDB Molecule: glutamyl-tRNA synthetase 1; PDBTitle: crystal structure of glutamyl-tRNA synthetase 1 (ec 6.1.1.17)2 (glutamate-tRNA ligase 1) (glurs 1) (tm1351) from thermotoga maritima3 at 2.5 a resolution
17	c2qahA_	Alignment		11.9	60	PDB header: hydrolase Chain: A: PDB Molecule: 2-pyrone-4,6-dicarboxylic acid hydrolase; PDBTitle: crystal structure of the 2-pyrene-4,6-dicarboxylic acid hydrolase from 2 sphingomonas paucimobilis
18	d2f6ka1	Alignment		11.9	30	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: PP1699/LP2961-like
19	c6grvA_	Alignment		11.3	33	PDB header: metal binding protein Chain: A: PDB Molecule: metallothionein; PDBTitle: cadmium(ii) form of full-length metallothionein from pseudomonas2 fluorescens q2-87 (pfllq2 mt)
20	c60mqA_	Alignment		10.9	42	PDB header: oxidoreductase Chain: A: PDB Molecule: ptmu3; PDBTitle: crystal structure of ptmu3 complexed with ptm substrate
21	c1iv8A_	Alignment	not modelled	10.3	21	PDB header: isomerase Chain: A: PDB Molecule: maltooligosyl trehalose synthase; PDBTitle: crystal structure of maltooligosyl trehalose synthase
22	c3zifR_	Alignment	not modelled	9.9	25	PDB header: virus Chain: R: PDB Molecule: pviii; PDBTitle: cryo-em structures of two intermediates provide insight into 2 adenovirus assembly and disassembly
23	d2hbva1	Alignment	not modelled	9.6	33	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: PP1699/LP2961-like
24	d1w2ya_	Alignment	not modelled	9.3	45	Fold: all-alpha NTP pyrophosphatases Superfamily: all-alpha NTP pyrophosphatases Family: Type II deoxyuridine triphosphatase
25	c3cpA_	Alignment	not modelled	9.3	15	PDB header: hydrolase Chain: A: PDB Molecule: predicted amidohydrolase, dihydroorotate family; PDBTitle: crystal structure of an uncharacterized amidohydrolase cac332 from 2 clostridium acetobutylicum
26	c2wm1A_	Alignment	not modelled	9.2	15	PDB header: lyase Chain: A: PDB Molecule: 2-amino-3-carboxymuconate-6-semialdehyde PDBTitle: the crystal structure of human alpha-amino-beta-2 carboxymuconate-epsilon-semialdehyde decarboxylase in3 complex with 1,3-dihydroxyacetonephosphate suggests a4 regulatory link between nad synthesis and glycolysis
27	c5vn5A_	Alignment	not modelled	9.2	40	PDB header: hydrolase Chain: A: PDB Molecule: 2,2',3-trihydroxy-3'-methoxy-5,5'-dicarboxyphenyl meta- PDBTitle: crystal structure of ligy from sphingobium sp. strain syk-6 PDB header: signaling protein/signaling protein Chain: E: PDB Molecule: sigma-e factor negative regulatory

28	c3m4wE	Alignment	not modelled	8.7	32	protein; PDBTitle: structural basis for the negative regulation of bacterial stress2 response by rseB
29	c2ja2A	Alignment	not modelled	8.5	42	PDB header: ligase Chain: A: PDB Molecule: glutamyl-tRNA synthetase; PDBTitle: mycobacterium tuberculosis glutamyl-tRNA synthetase
30	c5oarC	Alignment	not modelled	8.2	52	PDB header: hydrolase Chain: C: PDB Molecule: beta-hexosaminidase; PDBTitle: crystal structure of native beta-N-acetylhexosaminidase isolated from2 aspergillus oryzae
31	c2cfoA	Alignment	not modelled	7.8	50	PDB header: ligase Chain: A: PDB Molecule: glutamyl-tRNA synthetase; PDBTitle: non-discriminating glutamyl-tRNA synthetase from2 thermosynechococcus elongatus in complex with glu
32	c6dxsB	Alignment	not modelled	7.7	23	PDB header: lyase/lyase inhibitor Chain: B: PDB Molecule: 4-oxalomesaconate hydratase; PDBTitle: crystal structure of the lig hydratase e284q mutant substrate complex2 with (3z)-2-keto-4-carboxy-3-hexenedioate
33	c4dziD	Alignment	not modelled	7.6	46	PDB header: hydrolase Chain: D: PDB Molecule: putative tim-barrel metal-dependent hydrolase; PDBTitle: crystal structure of amidohydrolase map2389c (target efi-500390) from2 mycobacterium avium subsp. paratuberculosis k-10
34	c4l5pD	Alignment	not modelled	7.6	15	PDB header: lyase Chain: D: PDB Molecule: 5-carboxyvanillate decarboxylase; PDBTitle: crystal structure of 5-carboxyvanillate decarboxylase from2 sphingomonas paucimobilis complexed with 4-hydroxy-3-methoxy-5-nitrobenzoic acid
35	c4mupC	Alignment	not modelled	7.5	47	PDB header: hydrolase Chain: C: PDB Molecule: amidohydrolase; PDBTitle: crystal structure of agrobacterium tumefaciens atu3138 (efi target 205157), apo structure
36	d1grja2	Alignment	not modelled	7.4	24	Fold: FKBP-like Superfamily: FKBP-like Family: GreA transcript cleavage factor, C-terminal domain
37	c1grjA	Alignment	not modelled	7.1	21	PDB header: transcription regulation Chain: A: PDB Molecule: greA protein; PDBTitle: greA transcript cleavage factor from escherichia coli
38	d1nuwa	Alignment	not modelled	7.1	22	Fold: Carbohydrate phosphatase Superfamily: Carbohydrate phosphatase Family: Inositol monophosphatase/fructose-1,6-bisphosphatase-like
39	c5ydfA	Alignment	not modelled	7.0	23	PDB header: transcription Chain: A: PDB Molecule: parafibromin; PDBTitle: crystal structure of a disease-related gene, hcdc73(1-100)
40	d2dvta1	Alignment	not modelled	6.7	33	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: PP1699/LP2961-like
41	c4hk6D	Alignment	not modelled	6.7	27	PDB header: lyase Chain: D: PDB Molecule: uracil-5-carboxylate decarboxylase; PDBTitle: crystal structure of cordyceps militaris idcase in complex with 5-nitro-uracil
42	c5k8qB	Alignment	not modelled	6.6	40	PDB header: metal binding protein Chain: B: PDB Molecule: zgc:136689; PDBTitle: crystal structure of calcium-loaded calmodulin in complex with stra62 campb2-site peptide.
43	d1ay7b	Alignment	not modelled	6.6	27	Fold: Barstar-like Superfamily: Barstar-related Family: Barstar-related
44	c2kamA	Alignment	not modelled	6.4	44	PDB header: toxin Chain: A: PDB Molecule: delta-hemolysin; PDBTitle: nmr structure of delta-toxin from staphylococcus aureus in2 cd3oh
45	d1bk4a	Alignment	not modelled	6.3	22	Fold: Carbohydrate phosphatase Superfamily: Carbohydrate phosphatase Family: Inositol monophosphatase/fructose-1,6-bisphosphatase-like
46	c2fhyL	Alignment	not modelled	6.3	22	PDB header: hydrolase Chain: L: PDB Molecule: fructose-1,6-bisphosphatase 1; PDBTitle: structure of human liver fpbase complexed with a novel benzoxazole as2 allosteric inhibitor
47	c1dtcA	Alignment	not modelled	6.3	44	PDB header: toxin Chain: A: PDB Molecule: acetyl-delta-toxin; PDBTitle: delta-toxin and analogues as peptide models for protein ion2 channels
48	c3nurA	Alignment	not modelled	6.2	25	PDB header: hydrolase Chain: A: PDB Molecule: amidohydrolase; PDBTitle: crystal structure of a putative amidohydrolase from staphylococcus aureus
49	c4infA	Alignment	not modelled	6.2	23	PDB header: hydrolase Chain: A: PDB Molecule: metal-dependent hydrolase; PDBTitle: crystal structure of amidohydrolase saro_0799 (target efi-505250) from2 novosphingobium aromaticivorans dsm 12444 with bound calcium
50	c3afhA	Alignment	not modelled	6.1	38	PDB header: ligase Chain: A: PDB Molecule: glutamyl-tRNA synthetase 2; PDBTitle: crystal structure of thermotoga maritima nondiscriminating glutamyl-2-tRNA synthetase in complex with a glutamyl-amp analog
51	c2dtbA	Alignment	not modelled	6.0	44	PDB header: toxin Chain: A: PDB Molecule: delta-toxin; PDBTitle: delta-toxin and analogues as peptide models for protein ion2 channels
52	c2y1hA	Alignment	not modelled	6.0	23	PDB header: hydrolase Chain: A: PDB Molecule: putative deoxyribonuclease tatdn3; PDBTitle: crystal structure of the human tatd-domain protein 3 (tatdn3)
53	c3a64A	Alignment	not modelled	6.0	12	PDB header: hydrolase Chain: A: PDB Molecule: cellobiohydrolase;

53	c5d04mA	Alignment	not modelled	6.0	12	PDBTitle: crystal structure of cccel6c, a glycoside hydrolase family 62 enzyme, from coprinopsis cinerea PDB header: hydrolase
54	c1jqpA	Alignment	not modelled	6.0	43	Chain: A: PDB Molecule: dipeptidyl peptidase i; PDBTitle: dipeptidyl peptidase i (cathepsin c), a tetrameric cysteine protease2 of the papain family
55	d1yixa1	Alignment	not modelled	5.9	23	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: TatD Mg-dependent DNase-like
56	d1gtra2	Alignment	not modelled	5.9	42	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
57	d1bbua1	Alignment	not modelled	5.8	29	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
58	d1ftaa	Alignment	not modelled	5.8	22	Fold: Carbohydrate phosphatase Superfamily: Carbohydrate phosphatase Family: Inositol monophosphatase/fructose-1,6-bisphosphatase-like
59	d1nzja	Alignment	not modelled	5.7	58	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
60	c4do7B	Alignment	not modelled	5.7	38	PDB header: hydrolase Chain: B: PDB Molecule: amidohydrolase 2; PDBTitle: crystal structure of an amidohydrolase (cog3618) from burkholderia2 multivorans (target efi-500235) with bound zn, space group c2
61	d2ffia1	Alignment	not modelled	5.5	54	Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: PP1699/LP2961-like
62	c2v6xB	Alignment	not modelled	5.5	33	PDB header: protein transport Chain: B: PDB Molecule: doa4-independent degradation protein 4; PDBTitle: structural insight into the interaction between escrt-iii and vps4
63	c6s3fB	Alignment	not modelled	5.5	50	PDB header: antifungal protein Chain: B: PDB Molecule: 2s albumin; PDBTitle: moringa seed protein mo-cbp3-4
64	c6b1pA	Alignment	not modelled	5.4	42	PDB header: ligase Chain: A: PDB Molecule: glutamate--trna ligase 1; PDBTitle: crystal structure of glutamate-trna synthetase from helicobacter2 pylori
65	c3gitA	Alignment	not modelled	5.4	36	PDB header: transferase Chain: A: PDB Molecule: carbon monoxide dehydrogenase/acetyl-coa synthase subunit PDBTitle: crystal structure of a truncated acetyl-coa synthase
66	c3al0C	Alignment	not modelled	5.4	38	PDB header: ligase/rna Chain: C: PDB Molecule: glutamyl-trna(gln) amidotransferase subunit c,linker, PDBTitle: crystal structure of the glutamine transamidosome from thermotoga2 maritima in the glutamylation state.
67	c2dzmA	Alignment	not modelled	5.4	19	PDB header: structural genomics unknown function Chain: A: PDB Molecule: fas-associated factor 1; PDBTitle: solution structure of the ubiquitin-like domain in human2 fas-associated factor 1 (hfaf1)
68	d2cx6a1	Alignment	not modelled	5.3	16	Fold: Barstar-like Superfamily: Barstar-related Family: Barstar-related
69	c5lgcA	Alignment	not modelled	5.3	30	PDB header: hydrolase Chain: A: PDB Molecule: arce4a; PDBTitle: t48 deacetylase with substrate
70	c2vyoA	Alignment	not modelled	5.3	17	PDB header: hydrolase Chain: A: PDB Molecule: polysaccharide deacetylase domain-containing protein PDBTitle: chitin deacetylase family member from encephalitozoon cuniculi
71	c2vqlD	Alignment	not modelled	5.2	86	PDB header: membrane protein Chain: D: PDB Molecule: uncharacterized protein cgl0972; PDBTitle: crystal structure of porb from corynebacterium glutamicum (2 crystal form iii)
72	c3tnxA	Alignment	not modelled	5.2	30	PDB header: hydrolase Chain: A: PDB Molecule: papain; PDBTitle: structure of the precursor of a thermostable variant of papain at 2.62 angstroem resolution
73	c2gq1A	Alignment	not modelled	5.1	26	PDB header: hydrolase Chain: A: PDB Molecule: fructose-1,6-bisphosphatase; PDBTitle: crystal structure of recombinant type i fructose-1,6-bisphosphatase2 from escherichia coli complexed with sulfate ions