
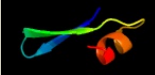



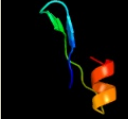









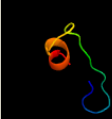

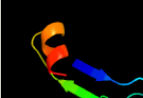

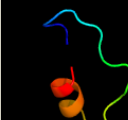

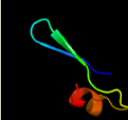


Phyre2

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Date	Wed Jul 31 22:05:36 BST 2019
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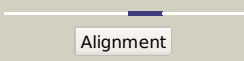
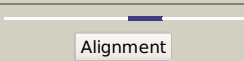
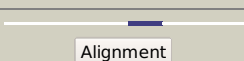
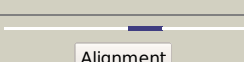
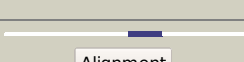

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1o0wa2	 Alignment		43.1	31	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
2	d1qu6a2	 Alignment		41.8	26	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
3	d1x49a1	 Alignment		40.9	15	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
4	c2kxa_	 Alignment		38.3	26	PDB header: gene regulation,nuclear protein Chain: A: PDB Molecule: ribonuclease 3; PDBTitle: drosha double-stranded rna binding motif
5	c2n3ha_	 Alignment		35.8	22	PDB header: rna binding protein Chain: A: PDB Molecule: double-stranded rna-binding protein 4; PDBTitle: solution structure of drb4 dsrbd2 (viz. drb4(81-151))
6	d1x47a1	 Alignment		34.5	22	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
7	d1x48a1	 Alignment		32.4	26	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
8	d1qu6a1	 Alignment		31.3	26	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
9	d1t4na_	 Alignment		29.9	19	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
10	c2n3ga_	 Alignment		28.0	26	PDB header: rna binding protein Chain: A: PDB Molecule: double-stranded rna-binding protein 4; PDBTitle: solution structure of drb4 dsrbd1 (viz. drb4(1-72))
11	c3adiA_	 Alignment		27.5	23	PDB header: gene regulation Chain: A: PDB Molecule: f21m12.9 protein; PDBTitle: structure of arabidopsis hyl1 and its molecular implications for mirna2 processing

12	d1t4lb_	Alignment		26.7	19	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
13	c4kt3B_	Alignment		24.6	24	PDB header: hydrolase Chain: B: PDB Molecule: putative lipoprotein; PDBTitle: structure of a type vi secretion system effector-immunity complex from2 pseudomonas protegens
14	d1ixta_	Alignment		21.7	50	Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: omega toxin-like Family: Conotoxin
15	c1ixtA_	Alignment		21.7	50	PDB header: toxin Chain: A: PDB Molecule: spasmodic protein tx9a-like protein; PDBTitle: structure of a novel p-superfamily spasmodic conotoxin2 reveals an inhibitory cystine knot motif
16	c1h2IG_	Alignment		21.3	27	PDB header: dna binding protein Chain: G: PDB Molecule: dna repair protein rad52 homolog; PDBTitle: human rad52 protein, n-terminal domain
17	c1vw45_	Alignment		21.0	26	PDB header: ribosome Chain: 5: PDB Molecule: 54s ribosomal protein l3, mitochondrial; PDBTitle: structure of the yeast mitochondrial large ribosomal subunit
18	c2mdrA_	Alignment		20.8	9	PDB header: hydrolase Chain: A: PDB Molecule: double-stranded rna-specific adenosine deaminase; PDBTitle: solution structure of the third double-stranded rna-binding domain2 (dsrbd3) of human adenosine-deaminase adar1
19	d1t4oa_	Alignment		20.5	19	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
20	c1t4oA_	Alignment		20.5	19	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease iii; PDBTitle: crystal structure of rnt1p dsrbd
21	c3adlA_	Alignment	not modelled	19.7	19	PDB header: gene regulation/rna Chain: A: PDB Molecule: risc-loading complex subunit tarbp2; PDBTitle: structure of tarbp2 and its molecule implications for mirna processing
22	c5kwpA_	Alignment	not modelled	18.8	29	PDB header: de novo protein Chain: A: PDB Molecule: designed peptide nc_eeh_d2; PDBTitle: nmr solution structure of designed peptide nc_eeh_d2
23	d2nuga2	Alignment	not modelled	17.2	19	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
24	c2aivA_	Alignment	not modelled	17.0	11	PDB header: transport protein Chain: A: PDB Molecule: fragment of nucleoporin nup116/hsp116; PDBTitle: multiple conformations in the ligand-binding site of the yeast nuclear2 pore targeting domain of nup116p
25	c2zalD_	Alignment	not modelled	17.0	18	PDB header: hydrolase Chain: D: PDB Molecule: l-asparaginase; PDBTitle: crystal structure of e. coli isoaspartyl aminopeptidase/l-asparaginase2 in complex with l-aspartate
26	c4ce4h_	Alignment	not modelled	15.3	19	PDB header: ribosome Chain: H: PDB Molecule: PDBTitle: 39s large subunit of the porcine mitochondrial ribosome
27	c2vdaB_	Alignment	not modelled	14.9	36	PDB header: protein transport Chain: B: PDB Molecule: maltoporin; PDBTitle: solution structure of the seca-signal peptide complex
28	c4pv3D_	Alignment	not modelled	14.3	20	PDB header: hydrolase Chain: D: PDB Molecule: l-asparaginase beta subunit; PDBTitle: crystal structure of potassium-dependent plant-type l-asparaginase2 from phaseolus vulgaris in complex with na+ cations
						PDB header: ribosome

29	c4v1ah_	Alignment	not modelled	13.8	19	Chain: H; PDB Molecule: structure of the large subunit of the mammalian mitoribosome, part 22 of 2
30	c2gezF_	Alignment	not modelled	12.8	22	PDB header: hydrolase Chain: F; PDB Molecule: l-asparaginase beta subunit; PDBTitle: crystal structure of potassium-independent plant asparaginase
31	c2msoA_	Alignment	not modelled	12.6	50	PDB header: toxin Chain: A; PDB Molecule: conotoxin gm9.1; PDBTitle: solution study of cgm9a
32	c3adiC_	Alignment	not modelled	12.4	14	PDB header: gene regulation/rna Chain: C; PDB Molecule: f21m12.9 protein; PDBTitle: structure of arabidopsis hyl1 and its molecular implications for mirna2 processing
33	d2cpna1	Alignment	not modelled	11.9	19	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
34	d1zata2	Alignment	not modelled	11.1	13	Fold: L,D-transpeptidase pre-catalytic domain-like Superfamily: L,D-transpeptidase pre-catalytic domain-like Family: L,D-transpeptidase pre-catalytic domain-like
35	c1jn9B_	Alignment	not modelled	11.0	21	PDB header: hydrolase Chain: B; PDB Molecule: putative l-asparaginase; PDBTitle: structure of putative asparaginase encoded by escherichia coli ybik2 gene
36	c1t3mD_	Alignment	not modelled	11.0	21	PDB header: hydrolase Chain: D; PDB Molecule: putative l-asparaginase; PDBTitle: structure of the isoaspartyl peptidase with l-asparaginase2 activity from e. coli
37	c1t3mB_	Alignment	not modelled	11.0	21	PDB header: hydrolase Chain: B; PDB Molecule: putative l-asparaginase; PDBTitle: structure of the isoaspartyl peptidase with l-asparaginase2 activity from e. coli
38	c2n3fA_	Alignment	not modelled	10.6	21	PDB header: rna binding protein Chain: A; PDB Molecule: double-stranded rna-binding protein 4; PDBTitle: solution structure of both dsrbds of drb4 along with linker (viz.2 drb4(1-153))
39	c2zalB_	Alignment	not modelled	10.5	18	PDB header: hydrolase Chain: B; PDB Molecule: l-asparaginase; PDBTitle: crystal structure of e. coli isoaspartyl aminopeptidase/l-asparaginase2 in complex with l-aspartate
40	c2ltsA_	Alignment	not modelled	10.3	23	PDB header: rna binding protein Chain: A; PDB Molecule: protein rde-4; PDBTitle: solution structure of rde-4(150-235)
41	d1uila_	Alignment	not modelled	10.3	13	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
42	c3llhB_	Alignment	not modelled	10.0	32	PDB header: rna binding protein Chain: B; PDB Molecule: crisc-loading complex subunit tarbp2; PDBTitle: crystal structure of the first dsrbd of tar rna-binding protein 2
43	c2lrsA_	Alignment	not modelled	9.9	29	PDB header: hydrolase Chain: A; PDB Molecule: endoribonuclease dicer homolog 1; PDBTitle: the second dsrbd domain from a. thaliana dicer-like 1
44	d1z1ba1	Alignment	not modelled	9.8	18	Fold: DNA-binding domain Superfamily: DNA-binding domain Family: lambda integrase N-terminal domain
45	c1kjkA_	Alignment	not modelled	9.8	18	PDB header: viral protein Chain: A; PDB Molecule: integrase; PDBTitle: solution structure of the lambda integrase amino-terminal2 domain
46	c2q5xA_	Alignment	not modelled	9.8	22	PDB header: protein transport Chain: A; PDB Molecule: nuclear pore complex protein nup98; PDBTitle: crystal structure of the c-terminal domain of hnup98
47	d1di2a_	Alignment	not modelled	9.6	15	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
48	c1jn9D_	Alignment	not modelled	9.5	21	PDB header: hydrolase Chain: D; PDB Molecule: putative l-asparaginase; PDBTitle: structure of putative asparaginase encoded by escherichia coli ybik2 gene
49	c1k2xB_	Alignment	not modelled	9.5	21	PDB header: hydrolase Chain: B; PDB Molecule: putative l-asparaginase; PDBTitle: crystal structure of putative asparaginase encoded by escherichia coli2 ybik gene
50	c1k2xD_	Alignment	not modelled	9.5	21	PDB header: hydrolase Chain: D; PDB Molecule: putative l-asparaginase; PDBTitle: crystal structure of putative asparaginase encoded by escherichia coli2 ybik gene
51	c6htuA_	Alignment	not modelled	9.4	21	PDB header: rna binding protein Chain: A; PDB Molecule: double-stranded rna-binding protein staufen homolog 1; PDBTitle: structure of hstau1 dsrbd3-4 in complex with arf1 rna
52	d1stua_	Alignment	not modelled	9.0	15	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
53	d2b7ta1	Alignment	not modelled	9.0	36	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
54	c6rdu9_	Alignment	not modelled	8.7	36	PDB header: proton transport Chain: 9; PDB Molecule: asa-9: polytomella f-atp synthase associated subunit 9; PDBTitle: cryo-em structure of polytomella f-atp synthase, rotary substate 1e,2 monomer-masked refinement
55	c5nnaA_	Alignment	not modelled	8.6	27	PDB header: rna binding protein Chain: A; PDB Molecule: loquacious, isoform f;

55	c1p4vA	Alignment	not modelled	8.6	27	PDBTitle: solution structure of drosophila melanogaster loquacious dsrbd1
56	d2bj7a1	Alignment	not modelled	8.6	20	Fold: Ribbon-helix-helix Superfamily: Ribbon-helix-helix Family: CopG-like
57	c4uutA	Alignment	not modelled	7.6	19	PDB header: transcription Chain: A: PDB Molecule: homeotic protein ultrabithorax; PDBTitle: crystal structure of the ultrabithorax protein
58	c3kepA	Alignment	not modelled	7.5	24	PDB header: protein transport, rna binding protein Chain: A: PDB Molecule: nucleoporin nup145; PDBTitle: crystal structure of the autoproteolytic domain from the nuclear pore2 complex component nup145 from saccharomyces cerevisiae
59	c2zakB	Alignment	not modelled	7.5	18	PDB header: hydrolase Chain: B: PDB Molecule: l-asparaginase precursor; PDBTitle: orthorhombic crystal structure of precursor e. coli isoasparyl2 peptidase/l-asparaginase (eca1ii) with active-site t179a mutation
60	c4gduB	Alignment	not modelled	7.3	27	PDB header: hydrolase Chain: B: PDB Molecule: l-asparaginase; PDBTitle: crystal structure of sulfate-bound human l-asparaginase protein
61	d2hzaa1	Alignment	not modelled	7.2	27	Fold: Ribbon-helix-helix Superfamily: Ribbon-helix-helix Family: CopG-like
62	c1p4vA	Alignment	not modelled	7.0	26	PDB header: hydrolase Chain: A: PDB Molecule: n(4)-(beta-n-acetylglucosaminy)l-asparaginase PDBTitle: crystal structure of the glycosylasparaginase precursor2 d151n mutant with glycine
63	d2hza1	Alignment	not modelled	6.9	27	Fold: Ribbon-helix-helix Superfamily: Ribbon-helix-helix Family: CopG-like
64	c3rv0B	Alignment	not modelled	6.5	22	PDB header: rna binding protein Chain: B: PDB Molecule: k. polysporus dcr1; PDBTitle: crystal structure of k. polysporus dcr1 without the c-terminal dsrbd
65	c4oogC	Alignment	not modelled	6.4	17	PDB header: hydrolase/rna Chain: C: PDB Molecule: ribonuclease 3; PDBTitle: crystal structure of yeast rnase iii (rnt1p) complexed with the2 product of dsrna processing
66	d1ekza	Alignment	not modelled	6.2	17	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
67	c2gacD	Alignment	not modelled	6.2	26	PDB header: hydrolase Chain: D: PDB Molecule: glycosylasparaginase; PDBTitle: t152c mutant glycosylasparaginase from flavobacterium2 meningosepticum
68	d1kn0a	Alignment	not modelled	6.2	23	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: The homologous-pairing domain of Rad52 recombinase
69	d1whna	Alignment	not modelled	5.9	17	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
70	c2vi6F	Alignment	not modelled	5.9	19	PDB header: transcription Chain: F: PDB Molecule: homeobox protein nanog; PDBTitle: crystal structure of the nanog homeodomain
71	c1qu6A	Alignment	not modelled	5.6	25	PDB header: transferase Chain: A: PDB Molecule: protein kinase pkr; PDBTitle: structure of the double-stranded rna-binding domain of the2 protein kinase pkr reveals the molecular basis of its3 dsrna-mediated activation
72	d2b7va1	Alignment	not modelled	5.5	23	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
73	d2rh2a1	Alignment	not modelled	5.4	44	Fold: SH3-like barrel Superfamily: Electron transport accessory proteins Family: R67 dihydrofolate reductase
74	d1cvra1	Alignment	not modelled	5.1	39	Fold: Immunoglobulin-like beta-sandwich Superfamily: E set domains Family: Gingipain R (RgpB), C-terminal domain
75	c5npaA	Alignment	not modelled	5.1	17	PDB header: rna binding protein Chain: A: PDB Molecule: loquacious; PDBTitle: solution structure of drosophila melanogaster loquacious dsrbd2
76	c5hoxE	Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: E: PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin.2 synchrotron data set. (lvffaedcgskncail(sar)lmv).
77	c5hoxC	Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: C: PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin.2 synchrotron data set. (lvffaedcgskncail(sar)lmv).
78	c5hoxB	Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: B: PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin.2 synchrotron data set. (lvffaedcgskncail(sar)lmv).
79	c5hoyA	Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: A: PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin. x-2 ray diffractometer data set. (lvffaedcgskncail(sar)lmv).
80	c5hoyB	Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: B: PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin. x-2 ray diffractometer data set. (lvffaedcgskncail(sar)lmv).

81	c5hoyE_	 Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: E; PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin. x-2 ray diffractometer data set. (lvffaedcgsnkcaii(sar)lmv).
82	c5hoxF_	 Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: F; PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin.2 synchrotron data set. (lvffaedcgsnkcaii(sar)lmv).
83	c5hoyD_	 Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: D; PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin. x-2 ray diffractometer data set. (lvffaedcgsnkcaii(sar)lmv).
84	c5hoyC_	 Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: C; PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin. x-2 ray diffractometer data set. (lvffaedcgsnkcaii(sar)lmv).
85	c5hoyF_	 Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: F; PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin. x-2 ray diffractometer data set. (lvffaedcgsnkcaii(sar)lmv).
86	c5hoxA_	 Alignment	not modelled	5.0	23	PDB header: de novo protein Chain: A; PDB Molecule: amyloid beta a4 protein; PDBTitle: x-ray crystallographic structure of an a-beta 17_36 beta-hairpin.2 synchrotron data set. (lvffaedcgsnkcaii(sar)lmv).