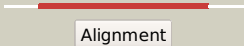

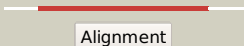

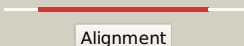







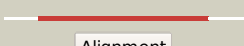

















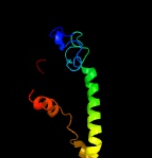


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD2925c_rnc_3239839_3240561
 Date Thu Aug 8 16:20:08 BST 2019
 Unique Job ID c7edc58aaafa160b

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4ce4h_	 Alignment		100.0	19	PDB header: ribosome Chain: H: PDB Molecule: PDBTitle: 39s large subunit of the porcine mitochondrial ribosome
2	c4v1ah_	 Alignment		100.0	19	PDB header: ribosome Chain: H: PDB Molecule: PDBTitle: structure of the large subunit of the mammalian mitoribosome, part 22 of 2
3	c5b16A_	 Alignment		100.0	31	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease 3,drosha,ribonuclease 3,drosha,ribonuclease 3; PDBTitle: x-ray structure of drosha in complex with the c-terminal tail of2 dgcr8.
4	c1o0wB_	 Alignment		100.0	38	PDB header: hydrolase Chain: B: PDB Molecule: ribonuclease iii; PDBTitle: crystal structure of ribonuclease iii (tm1102) from thermotoga2 maritima at 2.0 a resolution
5	c1vw45_	 Alignment		100.0	25	PDB header: ribosome Chain: 5: PDB Molecule: 54s ribosomal protein l3, mitochondrial; PDBTitle: structure of the yeast mitochondrial large ribosomal subunit
6	c1yywB_	 Alignment		100.0	36	PDB header: hydrolase/rna Chain: B: PDB Molecule: ribonuclease iii; PDBTitle: crystal structure of rnase iii from aquifex aeolicus2 complexed with double stranded rna at 2.8-angstrom3 resolution
7	c5zamA_	 Alignment		100.0	28	PDB header: hydrolase/protein binding/rna Chain: A: PDB Molecule: endoribonuclease dicer; PDBTitle: cryo-em structure of human dicer and its complexes with a pre-mirna2 substrate
8	c3c4tA_	 Alignment		100.0	27	PDB header: hydrolase Chain: A: PDB Molecule: endoribonuclease dicer; PDBTitle: structure of rnaseiib and dsrna binding domains of mouse dicer
9	c4oogC_	 Alignment		100.0	25	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
10	c3rv0B_	 Alignment		100.0	29	PDB header: rna binding protein Chain: B: PDB Molecule: k. polysporus dcr1; PDBTitle: crystal structure of k. polysporus dcr1 without the c-terminal dsrbd
11	c2a11A_	 Alignment		100.0	100	PDB header: transcription,translation,hydrolase Chain: A: PDB Molecule: ribonuclease iii; PDBTitle: crystal structure of nuclease domain of ribonuclase iii from2 mycobacterium tuberculosis

12	c2eb1B_	Alignment		100.0	28	PDB header: hydrolase Chain: B: PDB Molecule: endoribonuclease dicer; PDBTitle: crystal structure of the c-terminal rnase iii domain of human dicer
13	d1o0wa1	Alignment		100.0	38	Fold: RNase III domain-like Superfamily: RNase III domain-like Family: RNase III catalytic domain-like
14	c3o2rD_	Alignment		100.0	44	PDB header: hydrolase Chain: D: PDB Molecule: ribonuclease iii; PDBTitle: structural flexibility in region involved in dimer formation of 2 nuclease domain of ribonuclease iii (rnc) from campylobacter jejuni
15	c3n3wa_	Alignment		100.0	43	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease iii; PDBTitle: 2.2 angstrom resolution crystal structure of nuclease domain of 2 ribonuclease iii (rnc) from campylobacter jejuni
16	c3rv1B_	Alignment		100.0	27	PDB header: rna binding protein Chain: B: PDB Molecule: k. polysporus dcr1; PDBTitle: crystal structure of the n-terminal and rnase iii domains of k.2 polysporus dcr1 e224q mutant
17	d2nuga1	Alignment		100.0	33	Fold: RNase III domain-like Superfamily: RNase III domain-like Family: RNase III catalytic domain-like
18	c1vw49_	Alignment		100.0	24	PDB header: ribosome Chain: 9: PDB Molecule: 54s ribosomal protein l15, mitochondrial; PDBTitle: structure of the yeast mitochondrial large ribosomal subunit
19	c3rv0C_	Alignment		100.0	29	PDB header: rna binding protein Chain: C: PDB Molecule: k. polysporus dcr1; PDBTitle: crystal structure of k. polysporus dcr1 without the c-terminal dsrbd
20	c6buaA_	Alignment		99.9	31	PDB header: rna binding protein Chain: A: PDB Molecule: dicer-2, isoform a; PDBTitle: drosophila dicer-2 apo homology model (helicase, platform-paz, 2 rnaseiii domains)
21	c4ounA_	Alignment	not modelled	99.9	16	PDB header: hydrolase Chain: A: PDB Molecule: mini-ribonuclease 3; PDBTitle: crystal structure of mini-ribonuclease 3 from bacillus subtilis
22	c2mdrA_	Alignment	not modelled	99.7	26	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
23	d1qu6a1	Alignment	not modelled	99.6	27	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
24	c2n3ha_	Alignment	not modelled	99.6	28	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))
25	d1uila_	Alignment	not modelled	99.6	22	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
26	d1x49a1	Alignment	not modelled	99.6	26	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
27	c2n3fa_	Alignment	not modelled	99.6	23	PDB header: rna binding protein Chain: A: PDB Molecule: double-stranded rna-binding protein 4; PDBTitle: solution structure of both dsrbd3 of drb4 along with linker (viz.2 drb4(1-153))
28	d1uhza_	Alignment	not modelled	99.6	29	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)

29	c2n3gA	Alignment	not modelled	99.5	28	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))
30	c2kxhA	Alignment	not modelled	99.5	32	PDB header: gene regulation,nuclear protein Chain: A: PDB Molecule: ribonuclease 3; PDBTitle: drosha double-stranded rna binding motif
31	d1x47a1	Alignment	not modelled	99.5	29	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
32	d1o0wa2	Alignment	not modelled	99.5	39	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
33	c1qu6A	Alignment	not modelled	99.5	26	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
34	d1x48a1	Alignment	not modelled	99.5	20	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
35	c3adiC	Alignment	not modelled	99.5	34	PDB header: gene regulation/rna Chain: C: PDB Molecule: f21m12.9 protein; PDBTitle: structure of arabidopsis hyl1 and its molecular implications for mirna2 processing
36	c3adjA	Alignment	not modelled	99.5	26	PDB header: gene regulation Chain: A: PDB Molecule: f21m12.9 protein; PDBTitle: structure of arabidopsis hyl1 and its molecular implications for mirna2 processing
37	d1dj2a	Alignment	not modelled	99.5	35	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
38	d1qu6a2	Alignment	not modelled	99.5	18	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
39	c2ltsA	Alignment	not modelled	99.5	29	PDB header: rna binding protein Chain: A: PDB Molecule: protein rde-4; PDBTitle: solution structure of rde-4(150-235)
40	d1stua	Alignment	not modelled	99.5	25	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
41	c2yt4A	Alignment	not modelled	99.5	28	PDB header: rna binding protein Chain: A: PDB Molecule: protein dgcr8; PDBTitle: crystal structure of human dgcr8 core
42	d1whna	Alignment	not modelled	99.5	27	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
43	d2dixa1	Alignment	not modelled	99.5	29	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
44	c2l2nA	Alignment	not modelled	99.5	31	PDB header: rna binding protein, plant protein Chain: A: PDB Molecule: hyponastic leave 1; PDBTitle: backbone 1h, 13c, and 15n chemical shift assignments for the first2 dsrbd of protein hyl1
45	d1lekza	Alignment	not modelled	99.5	23	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
46	c6htuA	Alignment	not modelled	99.5	29	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
47	c6i3rA	Alignment	not modelled	99.5	26	PDB header: rna binding protein Chain: A: PDB Molecule: dosage compensation regulator; PDBTitle: structure, dynamics and rox2-lncrna binding of tandem double-stranded2 rna binding domains dsrbd1/2 of drosophila helicase mle
48	c3adiA	Alignment	not modelled	99.5	37	PDB header: gene regulation/rna Chain: A: PDB Molecule: risc-loading complex subunit tarbp2; PDBTitle: structure of trbp2 and its molecule implications for mirna processing
49	d2cpna1	Alignment	not modelled	99.5	35	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
50	c5npgA	Alignment	not modelled	99.4	36	PDB header: rna binding protein Chain: A: PDB Molecule: loquacious, isoform f; PDBTitle: solution structure of drosophila melanogaster loquacious dsrbd1
51	d2nuga2	Alignment	not modelled	99.4	45	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
52	d1t4lb	Alignment	not modelled	99.4	28	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
53	c1t4oA	Alignment	not modelled	99.4	25	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease iii; PDBTitle: crystal structure of rnt1p dsrbd
54	d1t4oa	Alignment	not modelled	99.4	25	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
55	c5npaA	Alignment	not modelled	99.4	32	PDB header: rna binding protein Chain: A: PDB Molecule: loquacious; PDBTitle: solution structure of drosophila melanogaster loquacious

						dsrbd2
56	d1t4na_	Alignment	not modelled	99.4	26	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
57	c5n8lA_	Alignment	not modelled	99.4	39	PDB header: rna binding protein Chain: A; PDB Molecule: risc-loading complex subunit tarbp2; PDBTitle: structure of trbp dsrbd 1 and 2 in complex with a 19 bp sirna (complex2 b)
58	c3llhB_	Alignment	not modelled	99.3	35	PDB header: rna binding protein Chain: B; PDB Molecule: risc-loading complex subunit tarbp2; PDBTitle: crystal structure of the first dsrbd of tar rna-binding protein 2
59	c2ltrA_	Alignment	not modelled	99.3	23	PDB header: rna binding protein Chain: A; PDB Molecule: protein rde-4; PDBTitle: solution structure of rde-4(32-136)
60	c2l33A_	Alignment	not modelled	99.2	35	PDB header: transcription regulator Chain: A; PDB Molecule: interleukin enhancer-binding factor 3; PDBTitle: solution nmr structure of drbm 2 domain of interleukin enhancer-2 binding factor 3 from homo sapiens, northeast structural genomics3 consortium target hr4527e
61	c2ljhA_	Alignment	not modelled	99.2	33	PDB header: hydrolase Chain: A; PDB Molecule: double-stranded rna-specific editase adar; PDBTitle: nmr structure of double-stranded rna-specific editase adar
62	d2b7va1	Alignment	not modelled	99.2	31	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
63	c2qvwA_	Alignment	not modelled	99.2	30	PDB header: hydrolase Chain: A; PDB Molecule: glp_546_48378_50642; PDBTitle: structure of giardia dicer refined against twinned data
64	d2dmya1	Alignment	not modelled	99.2	28	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
65	d2b7ta1	Alignment	not modelled	99.1	29	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
66	c2lrsA_	Alignment	not modelled	99.1	30	PDB header: hydrolase Chain: A; PDB Molecule: endoribonuclease dicer homolog 1; PDBTitle: the second dsrbd domain from a. thaliana dicer-like 1
67	c5dv7C_	Alignment	not modelled	99.1	29	PDB header: rna binding protein Chain: C; PDB Molecule: interleukin enhancer-binding factor 3; PDBTitle: crystal structure of nf90 tandem dsrbds with dsrna
68	c2l3jA_	Alignment	not modelled	99.0	28	PDB header: hydrolase/rna Chain: A; PDB Molecule: double-stranded rna-specific editase 1; PDBTitle: the solution structure of the adar2 dsrbm-rna complex reveals a2 sequence-specific read out of the minor groove
69	d1whqa_	Alignment	not modelled	98.8	27	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Double-stranded RNA-binding domain (dsRBD)
70	d1u61a_	Alignment	not modelled	98.4	25	Fold: RNase III domain-like Superfamily: RNase III domain-like Family: RNase III catalytic domain-like
71	c2qslE_	Alignment	not modelled	98.1	23	PDB header: structural genomics, unknown function Chain: E; PDB Molecule: hypothetical protein; PDBTitle: x-ray crystal structure of protein fn1578 from fusobacterium2 nucleatum. northeast structural genomics consortium target nr1.
72	c5aorA_	Alignment	not modelled	97.8	23	PDB header: hydrolase/rna Chain: A; PDB Molecule: dosage compensation regulator; PDBTitle: structure of mle rna adp alf4 complex
73	c4dkkA_	Alignment	not modelled	97.3	15	PDB header: rna binding protein Chain: A; PDB Molecule: double-stranded rna-binding protein staufen homolog 1; PDBTitle: the x-ray crystal structure of the human stau1 ssm-'rbd'5 domain-2 swapped dimer
74	c4wyqB_	Alignment	not modelled	97.3	13	PDB header: hydrolase/protein binding Chain: B; PDB Molecule: risc-loading complex subunit tarbp2; PDBTitle: crystal structure of the dicer-trbp interface
75	c5cffE_	Alignment	not modelled	97.3	22	PDB header: transcription/rna binding protein Chain: E; PDB Molecule: staufen; PDBTitle: crystal structure of miranda/staufen dsrbd5 complex
76	c2db2A_	Alignment	not modelled	96.8	22	PDB header: rna binding protein Chain: A; PDB Molecule: kiaa0890 protein; PDBTitle: solution structure of the double-stranded rna binding2 domain in kiaa0890 protein
77	c4x8wE_	Alignment	not modelled	96.6	15	PDB header: gene regulation Chain: E; PDB Molecule: loquacious, isoform b; PDBTitle: dsrbd3 of loquacious
78	c5f3qB_	Alignment	not modelled	96.1	27	PDB header: rna binding protein Chain: B; PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of a noncanonical dicer protein from entamoeba2 histolytica
79	c3htxA_	Alignment	not modelled	95.8	17	PDB header: transferase/rna Chain: A; PDB Molecule: hen1; PDBTitle: crystal structure of small rna methyltransferase hen1
80	c2kouA_	Alignment	not modelled	94.9	18	PDB header: hydrolase Chain: A; PDB Molecule: dicer-like protein 4; PDBTitle: dicer like protein
81	d1ztda1	Alignment	not modelled	71.6	23	Fold: RNase III domain-like Superfamily: RNase III domain-like Family: PF0609-like

82	c5apgA_	Alignment	not modelled	39.3	23	PDB header: transferase Chain: A: PDB Molecule: tsr3; PDBTitle: structure of the sam-dependent rrna:acp-transferase tsr32 from vulcanisaeta distributa
83	c3bbnE_	Alignment	not modelled	37.9	25	PDB header: ribosome Chain: E: PDB Molecule: ribosomal protein s5; PDBTitle: homology model for the spinach chloroplast 30s subunit fitted to 9.4a2 cryo-em map of the 70s chlororibosome.
84	c1snaA_	Alignment	not modelled	34.3	29	PDB header: de novo protein Chain: A: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
85	c1snaC_	Alignment	not modelled	34.3	29	PDB header: de novo protein Chain: C: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
86	c1snaB_	Alignment	not modelled	34.3	29	PDB header: de novo protein Chain: B: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
87	c1snaD_	Alignment	not modelled	34.3	29	PDB header: de novo protein Chain: D: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
88	c1p6gE_	Alignment	not modelled	32.7	30	PDB header: ribosome Chain: E: PDB Molecule: 30s ribosomal protein s5; PDBTitle: real space refined coordinates of the 30s subunit fitted into the low2 resolution cryo-em map of the ef-g.gtp state of e. coli 70s ribosome
89	c5mmje_	Alignment	not modelled	32.6	24	PDB header: ribosome Chain: E: PDB Molecule: PDBTitle: structure of the small subunit of the chloroplast ribosome
90	c3iwfA_	Alignment	not modelled	30.1	4	PDB header: transcription regulator Chain: A: PDB Molecule: transcription regulator rpir family; PDBTitle: the crystal structure of the n-terminal domain of a rpir2 transcriptional regulator from staphylococcus epidermidis to 1.4a
91	c1eg0B_	Alignment	not modelled	30.0	32	PDB header: ribosome PDB COMPND:
92	c5ap8A_	Alignment	not modelled	29.3	19	PDB header: transferase Chain: A: PDB Molecule: tsr3; PDBTitle: structure of the sam-dependent rrna:acp-transferase tsr32 from s. solfataricus
93	c2ow8f_	Alignment	not modelled	28.6	27	PDB header: ribosome Chain: F: PDB Molecule: PDBTitle: crystal structure of a 70s ribosome-trna complex reveals functional2 interactions and rearrangements. this file, 2ow8, contains the 30s3 ribosome subunit, two trna, and mrna molecules. 50s ribosome subunit4 is in the file 1vsa.
94	c2zkqe_	Alignment	not modelled	27.3	19	PDB header: ribosomal protein/rna Chain: E: PDB Molecule: rna expansion segment es6 part ii; PDBTitle: structure of a mammalian ribosomal 40s subunit within an 80s complex2 obtained by docking homology models of the rna and proteins into an3 8.7 a cryo-em map
95	c1d3uA_	Alignment	not modelled	26.1	17	PDB header: gene regulation/dna Chain: A: PDB Molecule: tata-binding protein; PDBTitle: tata-binding protein/transcription factor (iii)b/bre+tata-2 box complex from pyrococcus woesei
96	d2qale2	Alignment	not modelled	25.7	30	Fold: dsRBD-like Superfamily: dsRNA-binding domain-like Family: Ribosomal S5 protein, N-terminal domain
97	d1qnaa1	Alignment	not modelled	23.6	17	Fold: TBP-like Superfamily: TATA-box binding protein-like Family: TATA-box binding protein (TBP), C-terminal domain
98	c1sn9A_	Alignment	not modelled	22.9	29	PDB header: de novo protein Chain: A: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
99	c1sn9D_	Alignment	not modelled	22.9	29	PDB header: de novo protein Chain: D: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
100	c1sn9C_	Alignment	not modelled	22.9	29	PDB header: de novo protein Chain: C: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
101	c1sn9B_	Alignment	not modelled	22.9	29	PDB header: de novo protein Chain: B: PDB Molecule: tetrameric beta-beta-alpha mini-protein; PDBTitle: an oligomeric domain-swapped beta-beta-alpha mini-protein
102	d1aisa1	Alignment	not modelled	21.9	17	Fold: TBP-like Superfamily: TATA-box binding protein-like Family: TATA-box binding protein (TBP), C-terminal domain
103	d1cdwa1	Alignment	not modelled	21.7	16	Fold: TBP-like Superfamily: TATA-box binding protein-like Family: TATA-box binding protein (TBP), C-terminal domain