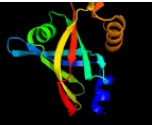










Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1155_(-)_1281434_1281877
Date	Wed Jul 31 22:05:24 BST 2019
Unique Job ID	777a9b7cf884fd06

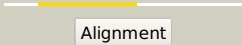
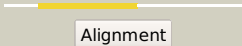
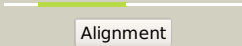
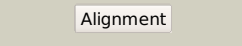
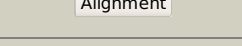
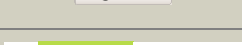
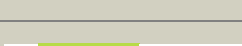

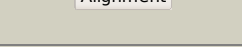
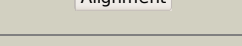

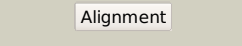
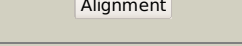
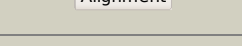
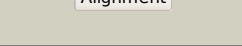
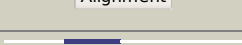

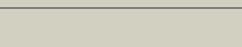
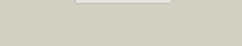
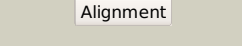
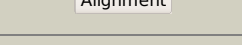
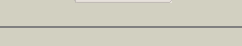

Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1w9aa_	Alignment		100.0	99	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
2	d2asfa1	Alignment		100.0	26	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
3	d1rfea_	Alignment		99.9	24	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
4	c3f7eB_	Alignment		99.9	18	PDB header: unknown function Chain: B: PDB Molecule: pyridoxamine 5'-phosphate oxidase-related, fmn- PDBTitle: msmeg_3380 f420 reductase
5	d2hq7a1	Alignment		99.9	11	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
6	c4zkyB_	Alignment		99.9	24	PDB header: oxidoreductase Chain: B: PDB Molecule: pyridoxamine 5-phosphate oxidase; PDBTitle: structure of f420 binding protein, msmeg_6526, from mycobacterium2 smegmatis
7	d2fhqa1	Alignment		99.9	15	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
8	c2re7A_	Alignment		99.9	17	PDB header: oxidoreductase Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a pyridoxamine 5'-phosphate oxidase related2 protein (psyc_0186) from psychrobacter arcticus 273-4 at 2.50 a3 resolution
9	d2i02a1	Alignment		99.9	16	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
10	c3tgvD_	Alignment		99.9	18	PDB header: heme binding protein Chain: D: PDB Molecule: heme-binding protein hutz; PDBTitle: crystal structure of hutz,the heme storsge protein from vibrio2 cholerae
11	d2hq9a1	Alignment		99.9	25	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like

12	c2iabB	Alignment		99.9	19	PDB header: unknown function Chain: B: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of a protein with fmn-binding split barrel fold2 (np_828636.1) from streptomyces avermitilis at 2.00 a resolution
13	c3ec6A	Alignment		99.9	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: general stress protein 26; PDBTitle: crystal structure of the general stress protein 26 from bacillus2 anthracis str. Sterne
14	c5escD	Alignment		99.9	12	PDB header: oxidoreductase Chain: D: PDB Molecule: hupz; PDBTitle: crystal structure of group a streptococcus hupz
15	c2htdB	Alignment		99.9	16	PDB header: oxidoreductase Chain: B: PDB Molecule: predicted flavin-nucleotide-binding protein from cog3576 PDBTitle: crystal structure of a putative pyridoxamine 5'-phosphate oxidase2 (ldb0262) from lactobacillus delbrueckii subsp. at 1.60 a resolution
16	c2htiA	Alignment		99.9	12	PDB header: fmn-binding protein Chain: A: PDB Molecule: bh0577 protein; PDBTitle: crystal structure of a flavin-nucleotide-binding protein (bh_0577)2 from bacillus halodurans at 2.50 a resolution
17	d2htia1	Alignment		99.9	12	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
18	d2fg9a1	Alignment		99.9	12	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
19	d1vl7a	Alignment		99.9	18	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
20	c3u0iA	Alignment		99.9	17	PDB header: unknown function Chain: A: PDB Molecule: probable fad-binding, putative uncharacterized protein; PDBTitle: crystal structure of a probable fad-binding, putative uncharacterized2 protein from brucella melitensis
21	c3db0B	Alignment	not modelled	99.9	22	PDB header: oxidoreductase Chain: B: PDB Molecule: lin2891 protein; PDBTitle: crystal structure of putative pyridoxamine 5'-phosphate oxidase2 (np_472219.1) from listeria innocua at 2.00 a resolution
22	c3dmbA	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: putative general stress protein 26 with a pnp-oxidase like PDBTitle: crystal structure of a putative general stress family protein2 (xcc2264) from xanthomonas campestris pv. campestris at 2.30 a3 resolution
23	c3u34D	Alignment	not modelled	99.9	14	PDB header: protein binding Chain: D: PDB Molecule: general stress protein; PDBTitle: crystal structure of the general stress fmn/fad binding protein from2 the phytopathogen xanthomonas citri
24	c3fkbB	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: B: PDB Molecule: putative pyridoxamine 5'-phosphate oxidase; PDBTitle: crystal structure of putative pyridoxamine 5'-phosphate oxidase2 (np_601736.1) from corynebacterium glutamicum atcc 13032 kitasato at3 2.51 a resolution
25	c2ig6B	Alignment	not modelled	99.8	9	PDB header: oxidoreductase Chain: B: PDB Molecule: nimc/nima family protein; PDBTitle: crystal structure of a nimc/nima family protein (ca_c2569) from2 clostridium acetobutylicum at 1.80 a resolution
26	c3cp3A	Alignment	not modelled	99.8	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of conserved protein of unknown function dip18742 from corynebacterium diphtheriae
27	c6eciQ	Alignment	not modelled	99.8	14	PDB header: fad-binding protein Chain: Q: PDB Molecule: pyridoxamine 5'-phosphate oxidase-related, fmn-binding PDBTitle: structure of the fad binding protein msme_5243 from mycobacterium2 smegmatis
						PDB header: oxidoreductase

28	c2q9kA	Alignment	not modelled	99.8	13	Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a putative oxidoreductase (exig_1997) from2 exiguobacterium sibiricum 255-15 at 1.59 a resolution
29	c2qeaB	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: B: PDB Molecule: putative general stress protein 26; PDBTitle: crystal structure of a putative general stress protein 26 (jann_0955)2 from jannaschia sp. ccs1 at 2.46 a resolution
30	c2hhzA	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridoxamine 5'-phosphate oxidase-related; PDBTitle: crystal structure of a pyridoxamine 5'-phosphate oxidase-related2 protein (ssuidraft_2804) from streptococcus suis 89/1591 at 2.00 a3 resolution
31	d1ty9a	Alignment	not modelled	99.8	19	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
32	d1t9ma	Alignment	not modelled	99.8	19	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
33	d2fura1	Alignment	not modelled	99.8	13	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
34	c2ou5B	Alignment	not modelled	99.8	19	PDB header: flavoprotein Chain: B: PDB Molecule: pyridoxamine 5'-phosphate oxidase-related, fmn-binding; PDBTitle: crystal structure of a pyridoxamine 5'-phosphate oxidase-related fmn-2 binding protein (jann_0254) from jannaschia sp. ccs1 at 1.60 a3 resolution
35	c4hmwB	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: B: PDB Molecule: pyridoxamine 5'-phosphate oxidase; PDBTitle: crystal structure of phzg from burkholderia lata 383
36	d2vpaa1	Alignment	not modelled	99.8	13	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
37	d1dnla	Alignment	not modelled	99.8	13	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
38	d2arza1	Alignment	not modelled	99.8	22	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
39	d1flma	Alignment	not modelled	99.8	17	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
40	d1nrga	Alignment	not modelled	99.7	15	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
41	c1nrgA	Alignment	not modelled	99.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridoxine 5'-phosphate oxidase; PDBTitle: structure and properties of recombinant human pyridoxine-5'-phosphate2 oxidase
42	c5bncB	Alignment	not modelled	99.7	25	PDB header: heme binding protein Chain: B: PDB Molecule: heme binding protein msme_6519; PDBTitle: structure of heme binding protein msme_6519 from mycobacterium2 smegmatis
43	c4ybnB	Alignment	not modelled	99.7	16	PDB header: oxidoreductase Chain: B: PDB Molecule: flavin-nucleotide-binding protein; PDBTitle: structure of the fad and heme binding protein msme_4975 from2 mycobacterium smegmatis
44	c3dnhB	Alignment	not modelled	99.7	18	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein atu2129; PDBTitle: the crystal structure of the protein atu2129 (unknown function) from2 agrobacterium tumefaciens str. c58
45	c2a2jA	Alignment	not modelled	99.7	18	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridoxamine 5'-phosphate oxidase; PDBTitle: crystal structure of a putative pyridoxine 5'-phosphate oxidase2 (rv2607) from mycobacterium tuberculosis
46	d2a2ja1	Alignment	not modelled	99.7	19	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
47	c3gasA	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: A: PDB Molecule: heme oxygenase; PDBTitle: crystal structure of helicobacter pylori heme oxygenase hugz2 in complex with heme
48	c6rk0A	Alignment	not modelled	99.7	12	PDB header: flavoprotein Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: structure of the flavocytochrome anf3 from azotobacter vinelandii
49	c2ol5B	Alignment	not modelled	99.7	11	PDB header: transcription regulator Chain: B: PDB Molecule: pai 2 protein; PDBTitle: crystal structure of a protease synthase and sporulation negative2 regulatory protein pai 2 from bacillus stearothermophilus
50	c2i51B	Alignment	not modelled	99.6	18	PDB header: flavoprotein Chain: B: PDB Molecule: uncharacterized conserved protein of cog5135; PDBTitle: crystal structure of a pyridoxamine 5'-phosphate oxidase-related, fmn2 binding protein (npun_f5749) from nostoc punctiforme pcc 73102 at3 1.40 a resolution
51	d1ci0a	Alignment	not modelled	99.6	11	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
52	d1xhna1	Alignment	not modelled	99.4	16	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
						PDB header: oxidoreductase/protein binding Chain: D: PDB Molecule: genomic dna, chromosome 3, p1 clone:

53	c4n7rD_	Alignment	not modelled	99.1	16	mxl8; PDBTitle: crystal structure of arabidopsis glutamyl-trna reductase in complex2 with its binding protein
54	c3h96B_	Alignment	not modelled	98.5	13	PDB header: flavoprotein Chain: B: PDB Molecule: f420-h2 dependent reductase a; PDBTitle: msmeg_3358 f420 reductase
55	c3r5zB_	Alignment	not modelled	98.5	20	PDB header: unknown function Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: structure of a deazaflavin-dependent reductase from nocardia2 farcinica, with co-factor f420
56	c3ba3A_	Alignment	not modelled	98.5	14	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridoxamine 5'-phosphate oxidase-like protein; PDBTitle: crystal structure of pyridoxamine 5'-phosphate oxidase-like protein2 (np_783940.1) from lactobacillus plantarum at 1.55 a resolution
57	c3r5yC_	Alignment	not modelled	98.4	23	PDB header: unknown function Chain: C: PDB Molecule: putative uncharacterized protein; PDBTitle: structure of a deazaflavin-dependent nitroreductase from nocardia2 farcinica, with co-factor f420
58	c3r5wO_	Alignment	not modelled	98.3	18	PDB header: oxidoreductase Chain: O: PDB Molecule: deazaflavin-dependent nitroreductase; PDBTitle: structure of ddn, the deazaflavin-dependent nitroreductase from2 mycobacterium tuberculosis involved in bioreductive activation of pa-3 824, with co-factor f420
59	c4y9iA_	Alignment	not modelled	98.1	16	PDB header: oxidoreductase Chain: A: PDB Molecule: mycobacterium tuberculosis paralogous family 11; PDBTitle: structure of f420-h2 dependent reductase (fdr-a) msmeg_2027
60	d2ptfa1	Alignment	not modelled	96.9	9	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: MTH863-like
61	c2ptfB_	Alignment	not modelled	96.6	9	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein mth_863; PDBTitle: crystal structure of protein mth_863 from methanobacterium2 thermoautotrophicum bound to fmn
62	d2imla1	Alignment	not modelled	96.4	15	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: MTH863-like
63	d1ejea_	Alignment	not modelled	95.5	9	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: NADH:FMN oxidoreductase-like
64	c3b5mD_	Alignment	not modelled	95.0	24	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of conserved uncharacterized protein from2 rhodopirellula baltica
65	c3fgeA_	Alignment	not modelled	94.9	18	PDB header: oxidoreductase Chain: A: PDB Molecule: putative flavin reductase with split barrel domain; PDBTitle: crystal structure of putative flavin reductase with split barrel2 domain (yp_750721.1) from shewanella frigidimarina ncimb 400 at 1.743 a resolution
66	c3e4vA_	Alignment	not modelled	94.9	17	PDB header: flavoprotein Chain: A: PDB Molecule: nadh:fmn oxidoreductase like protein; PDBTitle: crystal structure of nadh:fmn oxidoreductase like protein in complex2 with fmn (yp_544701.1) from methylobacillus flagellatus kt at 1.40 a3 resolution
67	c3bpbK_	Alignment	not modelled	94.3	13	PDB header: oxidoreductase Chain: B: PDB Molecule: nitrilotriacetate monooxygenase component b; PDBTitle: crystal structure of nitrilotriacetate monooxygenase component b from2 bacillus cereus
68	c4z85A_	Alignment	not modelled	92.4	9	PDB header: oxidoreductase Chain: A: PDB Molecule: 2-nitrobenzoate nitroreductase; PDBTitle: crystal structur of pseudomonas fluorescens 2-nitrobenzoate 2-2 nitroreductase nbaa
69	c2d5mA_	Alignment	not modelled	89.9	16	PDB header: electron transport Chain: A: PDB Molecule: flavoredoxin; PDBTitle: flavoredoxin of desulfovibrio vulgaris (miyazaki f)
70	d2nr4a1	Alignment	not modelled	89.4	12	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: MTH863-like
71	c4f07A_	Alignment	not modelled	84.4	12	PDB header: oxidoreductase Chain: A: PDB Molecule: styrene monooxygenase component 2; PDBTitle: structure of the styrene monooxygenase flavin reductase (smob) from2 pseudomonas putida s12
72	c3bnkB_	Alignment	not modelled	83.8	9	PDB header: electron transport Chain: B: PDB Molecule: flavoredoxin; PDBTitle: x-ray crystal structure of flavoredoxin from methanosarcina2 acetivorans
73	c3hmzA_	Alignment	not modelled	81.7	10	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin reductase domain protein, fmn-binding; PDBTitle: crystal structure of a fmn-binding domain of flavin reductases-like2 enzyme (sba1_0626) from shewanella baltica os155 at 1.50 a resolution
74	c4xhyA_	Alignment	not modelled	81.3	13	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin reductase domain protein, fmn-binding protein; PDBTitle: nadh:fmn oxidoreductase from paracoccus denitrificans
75	c4l82D_	Alignment	not modelled	81.0	10	PDB header: oxidoreductase Chain: D: PDB Molecule: rifea.00250.a; PDBTitle: structure of a putative oxidoreductase from rickettsia felis
76	c3pftA_	Alignment	not modelled	78.3	11	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin reductase; PDBTitle: crystal structure of untagged c54a mutant flavin reductase (dszd) in2 complex with fmn from mycobacterium goodii

77	c2qckA	 Alignment	not modelled	77.1	9	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin reductase domain protein; PDBTitle: crystal structure of flavin reductase domain protein (yp_831077.1)2 from arthrobacter sp. fb24 at 1.90 a resolution
78	c2d38A	 Alignment	not modelled	70.7	6	PDB header: oxidoreductase Chain: A: PDB Molecule: hypothetical nadh-dependent fmn oxidoreductase; PDBTitle: the crystal structure of flavin reductase hpac complexed with nadp+
79	d1usca	 Alignment	not modelled	69.6	16	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: NADH:FMN oxidoreductase-like
80	d1rz0a	 Alignment	not modelled	68.6	16	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: NADH:FMN oxidoreductase-like
81	d1i0ra	 Alignment	not modelled	67.9	9	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: NADH:FMN oxidoreductase-like
82	c3cb0B	 Alignment	not modelled	65.8	14	PDB header: oxidoreductase Chain: B: PDB Molecule: 4-hydroxyphenylacetate 3-monooxygenase; PDBTitle: cobr
83	c2r6vA	 Alignment	not modelled	64.5	11	PDB header: flavoprotein Chain: A: PDB Molecule: uncharacterized protein ph0856; PDBTitle: crystal structure of fmn-binding protein (np_142786.1) from pyrococcus2 horikoshii at 1.35 a resolution
84	c3k87B	 Alignment	not modelled	63.4	15	PDB header: oxidoreductase Chain: B: PDB Molecule: chlorophenol-4-monooxygenase component 1; PDBTitle: crystal structure of nadh:fad oxidoreductase (tftc) - fad2 complex
85	c3nfwB	 Alignment	not modelled	58.6	12	PDB header: oxidoreductase Chain: B: PDB Molecule: flavin reductase-like, fmn-binding protein; PDBTitle: crystal structure of nitrilotriacetate monooxygenase component b2 (a0r521 homolog) from mycobacterium thermoresistibile
86	c3rh7A	 Alignment	not modelled	58.3	14	PDB header: oxidoreductase Chain: A: PDB Molecule: hypothetical oxidoreductase; PDBTitle: crystal structure of a putative oxidoreductase (sma0793) from2 sinorhizobium meliloti 1021 at 3.00 a resolution
87	c2ecrA	 Alignment	not modelled	53.3	7	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin reductase component (hpac) of 4-hydroxyphenylacetate PDBTitle: crystal structure of the ligand-free form of the flavin reductase2 component (hpac) of 4-hydroxyphenylacetate 3-monooxygenase
88	d1wgba	 Alignment	not modelled	50.8	15	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: NADH:FMN oxidoreductase-like
89	c2r0xA	 Alignment	not modelled	31.5	8	PDB header: oxidoreductase Chain: A: PDB Molecule: possible flavin reductase; PDBTitle: crystal structure of a putative flavin reductase (ycdh_hs_1225) from2 haemophilus somnus 129pt at 1.06 a resolution
90	c4hx6D	 Alignment	not modelled	20.3	13	PDB header: oxidoreductase Chain: D: PDB Molecule: oxidoreductase; PDBTitle: streptomyces globisporus c-1027 nadh:fad oxidoreductase sgce6
91	c5yvda	 Alignment	not modelled	14.5	17	PDB header: hydrolase Chain: A: PDB Molecule: nsp15; PDBTitle: structural and biochemical characterization of endoribonuclease nsp152 encoded by middle east respiratory syndrome coronavirus
92	c2wshC	 Alignment	not modelled	12.2	39	PDB header: hydrolase Chain: C: PDB Molecule: endonuclease ii; PDBTitle: structure of bacteriophage t4 endoi e118a mutant
93	c5vb0E	 Alignment	not modelled	8.3	14	PDB header: transferase Chain: E: PDB Molecule: fosfomycin resistance protein fosa3; PDBTitle: crystal structure of fosfomycin resistance protein fosa3
94	c6hqzB	 Alignment	not modelled	8.0	13	PDB header: hydrolase Chain: B: PDB Molecule: avrrpt2; PDBTitle: crystal structure of the type iii effector protein avrrpt2 from2 erwinia amylovora, a c70 family cysteine protease
95	c3mb2J	 Alignment	not modelled	7.9	56	PDB header: isomerase Chain: J: PDB Molecule: 4-oxalocrotonate tautomerase family enzyme - beta subunit; PDBTitle: kinetic and structural characterization of a heterohexameric 4-2 oxalocrotonate tautomerase from chloroflexus aurantiacus j-10-fl:3 implications for functional and structural diversity in the4 tautomerase superfamily
96	c5hcdD	 Alignment	not modelled	7.1	63	PDB header: immune system Chain: D: PDB Molecule: rhipicephalus microplus raci2; PDBTitle: ternary complex of human complement c5 with ornithodoros moubata omci2 and rhipicephalus microplus raci2
97	d1jlua	 Alignment	not modelled	6.8	12	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
98	c5ag8A	 Alignment	not modelled	6.5	29	PDB header: hydrolase Chain: A: PDB Molecule: gingipain r2; PDBTitle: crystal structure of a mutant (665i6h) of the c-terminal2 domain of rgpb
99	c2zkru	 Alignment	not modelled	5.8	11	PDB header: ribosomal protein/rna Chain: U: PDB Molecule: rna expansion segment es41; PDBTitle: structure of a mammalian ribosomal 60s subunit within an 80s complex2 obtained by docking homology models of the rna and proteins into an3 8.7 a cryo-em map