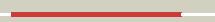
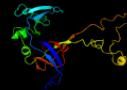
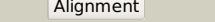
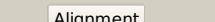
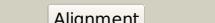
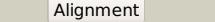
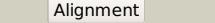
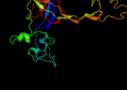
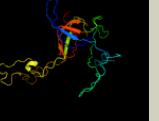
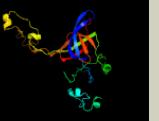
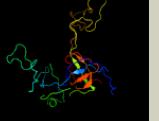
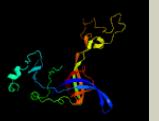
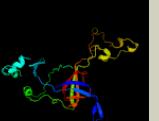
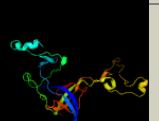


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD0701_(rpIC)_800812_801465
Date	Fri Jul 26 01:50:27 BST 2019
Unique Job ID	7913027477ab57a3

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5o60D			100.0	88	PDB header: ribosome Chain: D: PDB Molecule: 50s ribosomal protein I3; PDBTitle: structure of the 50s large ribosomal subunit from mycobacterium2 smegmatis
2	c1vw3C			100.0	41	PDB header: ribosome Chain: C: PDB Molecule: 54s ribosomal protein I9, mitochondrial; PDBTitle: structure of the yeast mitochondrial large ribosomal subunit
3	c4v19E			100.0	30	PDB header: ribosome Chain: E: PDB Molecule: mitoribosomal protein u13m, mrpl3; PDBTitle: structure of the large subunit of the mammalian mitoribosome, part 12 of 2
4	d2gycb1			100.0	51	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Translation proteins Family: Ribosomal protein L3
5	c3j3vD			100.0	53	PDB header: ribosome Chain: D: PDB Molecule: 50s ribosomal protein I3; PDBTitle: atomic model of the immature 50s subunit from bacillus subtilis (state2 i-a)
6	c4wfbB			100.0	52	PDB header: ribosome Chain: B: PDB Molecule: 50s ribosomal protein I3; PDBTitle: the crystal structure of the large ribosomal subunit of staphylococcus2 aureus in complex with bc-3205
7	d2zjrb1			100.0	53	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Translation proteins Family: Ribosomal protein L3
8	c5mlcE			100.0	43	PDB header: ribosome Chain: E: PDB Molecule: 50s ribosomal protein I3, chloroplastic; PDBTitle: cryo-em structure of the spinach chloroplast ribosome reveals the2 location of plastid-specific ribosomal proteins and extensions
9	c2ftcC			100.0	33	PDB header: ribosome Chain: C: PDB Molecule: mitochondrial 39s ribosomal protein I3; PDBTitle: structural model for the large subunit of the mammalian mitochondrial2 ribosome
10	d2j01e1			100.0	56	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Translation proteins Family: Ribosomal protein L3
11	d1vqob1			100.0	35	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Translation proteins Family: Ribosomal protein L3

12	c3jywC_	Alignment		100.0	27	PDB header: ribosome Chain: C: PDB Molecule: 60s ribosomal protein I3; PDBTitle: structure of the 60s proteins for eukaryotic ribosome based on cryo-em2 map of thermomyces lanuginosus ribosome at 8.9a resolution
13	c3j21C_	Alignment		100.0	30	PDB header: ribosome Chain: C: PDB Molecule: 50s ribosomal protein I3p; PDBTitle: promiscuous behavior of proteins in archaeal ribosomes revealed by2 cryo-em: implications for evolution of eukaryotic ribosomes (50s3 ribosomal proteins)
14	c3u5iB_	Alignment		100.0	27	PDB header: ribosome Chain: B: PDB Molecule: 60s ribosomal protein I3; PDBTitle: the structure of the eukaryotic ribosome at 3.0 a resolution. this2 entry contains proteins of the 60s subunit, ribosome b
15	c1s1iC_	Alignment		100.0	27	PDB header: ribosome Chain: C: PDB Molecule: 60s ribosomal protein I3; PDBTitle: structure of the ribosomal 80s-eef2-sordarin complex from yeast2 obtained by docking atomic models for rna and protein components into3 a 11.7 a cryo-em map. this file, 1s1i, contains 60s subunit. the 40s4 ribosomal subunit is in file 1s1h.
16	c3iz5C_	Alignment		100.0	26	PDB header: ribosome Chain: C: PDB Molecule: 60s ribosomal protein I3 (I3p); PDBTitle: localization of the large subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
17	c4a1aB_	Alignment		100.0	27	PDB header: ribosome Chain: B: PDB Molecule: ribosomal protein I3; PDBTitle: t.thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 3.
18	c3j39B_	Alignment		100.0	24	PDB header: ribosome Chain: B: PDB Molecule: 60s ribosomal protein I3; PDBTitle: structure of the d. melanogaster 60s ribosomal proteins
19	c2zkrb_	Alignment		100.0	26	PDB header: ribosomal protein/rna Chain: B: PDB Molecule: rna expansion segment es4; 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
20	c3zf7f_	Alignment		100.0	25	PDB header: ribosome Chain: F: PDB Molecule: PDBTitle: high-resolution cryo-electron microscopy structure of the trypanosoma2 brucei ribosome
21	c5ancA_	Alignment	not modelled	100.0	26	PDB header: translation Chain: A: PDB Molecule: 60s ribosomal protein I3; PDBTitle: mechanism of eif6 release from the nascent 60s ribosomal subunit
22	c3bb0F_	Alignment	not modelled	100.0	42	PDB header: ribosome Chain: F: PDB Molecule: ribosomal protein I3; PDBTitle: homology model for the spinach chloroplast 50s subunit fitted to 9.4a2 cryo-em map of the 70s chlororibosome
23	d1qfja1	Alignment	not modelled	33.0	18	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
24	c1a8pA_	Alignment	not modelled	25.3	20	PDB header: oxidoreductase Chain: A: PDB Molecule: nadph:ferredoxin oxidoreductase; PDBTitle: ferredoxin reductase from azotobacter vinelandii
25	c3j21R_	Alignment	not modelled	23.6	33	PDB header: ribosome Chain: R: PDB Molecule: 50s ribosomal protein l21e; PDBTitle: promiscuous behavior of proteins in archaeal ribosomes revealed by2 cryo-em: implications for evolution of eukaryotic ribosomes (50s3 ribosomal proteins)
26	d1vqoq1	Alignment	not modelled	22.7	44	Fold: SH3-like barrel Superfamily: Translation proteins SH3-like domain Family: Ribosomal proteins L24p and L21e
27	c1a3qA_	Alignment	not modelled	20.0	15	PDB header: transcription/dna Chain: A: PDB Molecule: protein (nuclear factor kappa-b p52); PDBTitle: human nf-kappa-b p52 bound to dna
28	c4p6vF_	Alignment	not modelled	19.6	28	PDB header: oxidoreductase Chain: F: PDB Molecule: na(+)-translocating nadh-quinone reductase subunit f; PDBTitle: crystal structure of the na+-translocating nadh: ubiquinone2 oxidoreductase from vibrio cholerae
						PDB header: ribosomal protein/rna

29	c2zkra	Alignment	not modelled	18.9	33	Chain: Q: PDB Molecule: rna expansion segment es31 part ii; 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
30	d1fdra1	Alignment	not modelled	18.2	20	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
31	c2bruC	Alignment	not modelled	17.7	50	PDB header: oxidoreductase Chain: C: PDB Molecule: nad(p) transhydrogenase subunit beta; PDBTitle: complex of the domain i and domain iii of escherichia coli2 transhydrogenase
32	d1d4oa	Alignment	not modelled	16.7	50	Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Transhydrogenase domain III (dIII)
33	c2i55A	Alignment	not modelled	16.3	8	PDB header: metal binding protein Chain: A: PDB Molecule: silb,silver efflux protein, mfp component of the three PDBTitle: solution structure of the c-terminal domain of silb from cupriavidus2 metallidurans
34	d1pn0a	Alignment	not modelled	15.9	67	Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Transhydrogenase domain III (dIII)
35	c1pt9B	Alignment	not modelled	15.5	50	PDB header: oxidoreductase Chain: B: PDB Molecule: nad(p) transhydrogenase, mitochondrial; PDBTitle: crystal structure analysis of the dIII component of transhydrogenase2 with a thio-nicotinamide nucleotide analogue
36	c3zf7U	Alignment	not modelled	13.8	67	PDB header: ribosome Chain: U: PDB Molecule: 60s ribosomal protein l21e, putative; PDBTitle: high-resolution cryo-electron microscopy structure of the trypanosoma2 brucei ribosome
37	d1r4ya	Alignment	not modelled	13.8	23	Fold: Microbial ribonucleases Superfamily: Microbial ribonucleases Family: Ribotoxin
38	d1de3a	Alignment	not modelled	13.7	24	Fold: Microbial ribonucleases Superfamily: Microbial ribonucleases Family: Ribotoxin
39	c3j3bT	Alignment	not modelled	13.4	40	PDB header: ribosome Chain: T: PDB Molecule: 60s ribosomal protein l21; PDBTitle: structure of the human 60s ribosomal proteins
40	d1qcsa1	Alignment	not modelled	13.3	19	Fold: Double psi beta-barrel Superfamily: ADC-like Family: Cdc48 N-terminal domain-like
41	c1s1i0	Alignment	not modelled	13.2	33	PDB header: ribosome Chain: Q: PDB Molecule: 60s ribosomal protein l21-a; PDBTitle: structure of the ribosomal 80s-eef2-sordarin complex from yeast2 obtained by docking atomic models for rna and protein components into3 a 11.7 a cryo-em map. this file, 1s1i, contains 60s subunit. the 40s4 ribosomal subunit is in file 1s1h.
42	c5ogxA	Alignment	not modelled	13.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: cytochrome p450 reductase; PDBTitle: crystal structure of amycolatopsis cytochrome p450 reductase gcb.
43	c3izcU	Alignment	not modelled	12.9	30	PDB header: ribosome Chain: U: PDB Molecule: 60s ribosomal protein rpl21 (l21e); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of saccharomyces cerevisiae translating 80s ribosome
44	c4a1aP	Alignment	not modelled	12.8	40	PDB header: ribosome Chain: P: PDB Molecule: 60s ribosomal protein l21; PDBTitle: t.thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 3.
45	c1le5E	Alignment	not modelled	12.5	26	PDB header: transcription/dna Chain: E: PDB Molecule: nuclear factor nf-kappa-b p65 subunit; PDBTitle: crystal structure of a nf-kb heterodimer bound to an ifnb-kb
46	d2i6va1	Alignment	not modelled	12.4	20	Fold: PDZ domain-like Superfamily: PDZ domain-like Family: EpsC C-terminal domain-like
47	c3iz5U	Alignment	not modelled	12.4	40	PDB header: ribosome Chain: U: PDB Molecule: 60s ribosomal protein l21 (l21e); PDBTitle: localization of the large subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
48	c4o9uB	Alignment	not modelled	12.3	67	PDB header: membrane protein Chain: B: PDB Molecule: nad(p) transhydrogenase subunit beta; PDBTitle: mechanism of transhydrogenase coupling proton translocation and2 hydride transfer
49	c4arpB	Alignment	not modelled	12.2	29	PDB header: hydrolase Chain: B: PDB Molecule: pesticin; PDBTitle: structure of the inactive pesticin e178a mutant
50	c3a98A	Alignment	not modelled	12.1	18	PDB header: signaling protein Chain: A: PDB Molecule: dedicator of cytokinesis protein 2; PDBTitle: crystal structure of the complex of the interacting regions of dock22 and elmo1
51	c2hdeA	Alignment	not modelled	12.1	40	PDB header: transcription Chain: A: PDB Molecule: histone deacetylase complex subunit sap18; PDBTitle: solution structure of human sap18
52	c4bg7A	Alignment	not modelled	12.0	24	PDB header: replication Chain: A: PDB Molecule: putative transcriptional coactivator p15; PDBTitle: bacteriophage t5 homolog of the eukaryotic transcription coactivator2 pc4 implicated in recombination-dependent dna replication
53	c1qfjD	Alignment	not modelled	11.3	18	PDB header: oxidoreductase Chain: D: PDB Molecule: protein (flavin reductase); PDBTitle: crystal structure of nad(p)h:flavin oxidoreductase from escherichia2 coli

54	d2do3a1		Alignment	not modelled	11.3	29	Fold: SH3-like barrel Superfamily: Translation proteins SH3-like domain Family: SPT5 KOW domain-like
55	d1a8pal		Alignment	not modelled	11.3	20	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
56	c4wqmA		Alignment	not modelled	11.2	25	PDB header: oxidoreductase Chain: A: PDB Molecule: toluene-4-monoxygenase electron transfer component; PDBTitle: structure of the toluene 4-monoxygenase nadh oxidoreductase t4mof_2 k270s k271s variant
57	c6i52B		Alignment	not modelled	11.2	33	PDB header: dna binding protein Chain: B: PDB Molecule: replication factor a protein 2; PDBTitle: yeast rpa bound to ssDNA
58	c4ytIB		Alignment	not modelled	11.0	33	PDB header: transcription Chain: B: PDB Molecule: transcription elongation factor spt5; PDBTitle: structure of the kow2-kow3 domain of transcription elongation factor2 spt5
59	c1nfc		Alignment	not modelled	10.8	26	PDB header: complex (transcription reg/ank repeat) Chain: C: PDB Molecule: nf-kappa-b p65; PDBTitle: i-kappa-b-alpha/nf-kappa-b complex
60	c1zeqX		Alignment	not modelled	10.8	8	PDB header: metal binding protein Chain: X: PDB Molecule: cation efflux system protein cuf8; PDBTitle: 1.5 a structure of apo-cuf8 residues 6-88 from escherichia coli
61	d1lkna2		Alignment	not modelled	10.6	27	Fold: Common fold of diphtheria toxin/transcription factors/cytochrome f Superfamily: p53-like transcription factors Family: Rel/Dorsal transcription factors, DNA-binding domain
62	c1yb2A		Alignment	not modelled	10.4	0	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein ta0852; PDBTitle: structure of a putative methyltransferase from thermoplasma2 acidophilum.
63	d1yb2a1		Alignment	not modelled	10.4	0	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: tRNA(1-methyladenosine) methyltransferase-like
64	c5ccbB		Alignment	not modelled	10.4	31	PDB header: transferase/rna Chain: B: PDB Molecule: tRNA (adenine(58)-n(1))-methyltransferase non-catalytic PDBTitle: crystal structure of human m1a58 methyltransferase in a complex with tRNA3lys and sah
65	c1zuyB		Alignment	not modelled	10.3	12	PDB header: contractile protein Chain: B: PDB Molecule: myosin-5 isoform; PDBTitle: high-resolution structure of yeast myo5 sh3 domain
66	c5o60V		Alignment	not modelled	10.0	19	PDB header: ribosome Chain: V: PDB Molecule: 50S ribosomal protein l24; PDBTitle: structure of the 50S large ribosomal subunit from mycobacterium2 smegmatis
67	d1uwfa1		Alignment	not modelled	9.7	13	Fold: Common fold of diphtheria toxin/transcription factors/cytochrome f Superfamily: Bacterial adhesins Family: Pilus subunits
68	c4b4dA		Alignment	not modelled	9.5	15	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of fad-containing ferredoxin-nadp reductase from xanthomonas axonopodis pv. citri
69	d1vqot1		Alignment	not modelled	9.4	25	Fold: SH3-like barrel Superfamily: Translation proteins SH3-like domain Family: Ribosomal proteins L24p and L21e
70	c4z89j		Alignment	not modelled	9.3	21	PDB header: rim-binding protein Chain: J: PDB Molecule: rim-binding protein, isoform f; PDBTitle: sh3-ii of drosophila rim-binding protein bound to a cacophony derived2 peptide
71	c1v1cA		Alignment	not modelled	8.9	35	PDB header: sh3-domain Chain: A: PDB Molecule: obscurin; PDBTitle: solution structure of the sh3 domain of obscurin
72	c2kjpA		Alignment	not modelled	8.7	24	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein yblf; PDBTitle: solution structure of protein yblf (bsu15050) from bacillus2 subtilis, northeast structural genomics consortium target3 sr713a
73	d1opka1		Alignment	not modelled	8.6	12	Fold: SH3-like barrel Superfamily: SH3-domain Family: SH3-domain
74	c5mmiV		Alignment	not modelled	8.6	25	PDB header: ribosome Chain: V: PDB Molecule: plastid ribosomal protein ul24c; PDBTitle: structure of the large subunit of the chloroplast ribosome
75	c5ergA		Alignment	not modelled	8.6	19	PDB header: transferase Chain: A: PDB Molecule: tRNA (adenine(58)-n(1))-methyltransferase non-catalytic PDBTitle: crystal structure of the two-subunit tRNA m1a58 methyltransferase2 trm6-trm61 in complex with sam
76	d2zjrr1		Alignment	not modelled	8.5	13	Fold: SH3-like barrel Superfamily: Translation proteins SH3-like domain Family: Ribosomal proteins L24p and L21e
77	c3iz5Y		Alignment	not modelled	8.5	19	PDB header: ribosome Chain: Y: PDB Molecule: 60S ribosomal protein l26 (l24p); PDBTitle: localization of the large subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80S ribosome
78	c3j21U		Alignment	not modelled	8.2	25	PDB header: ribosome Chain: U: PDB Molecule: 50S ribosomal protein l24p; PDBTitle: promiscuous behavior of proteins in archaeal ribosomes revealed by2 cryo-em: implications for evolution of eukaryotic ribosomes (50S ribosomal proteins)
							Fold: mRNA decapping enzyme DcpS N-terminal domain

79	d1vira2		not modelled	8.2	16	Superfamily: mRNA decapping enzyme DcpS N-terminal domain Family: mRNA decapping enzyme DcpS N-terminal domain
80	c1cqxB		not modelled	8.1	13	PDB header: lipid binding protein Chain: B: PDB Molecule: flavohemoprotein; PDBTitle: crystal structure of the flavohemoglobin from alcaligenes eutrophus at2 1.75 a resolution
81	c2i0nA		not modelled	8.1	9	PDB header: structural protein Chain: A: PDB Molecule: class vii unconventional myosin; PDBTitle: structure of dictyostelium discoideum myosin vii sh3 domain2 with adjacent proline rich region
82	c4a1cS		not modelled	8.0	13	PDB header: ribosome Chain: S: PDB Molecule: rpl26; PDBTitle: t.thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 4.
83	c4tu3X		not modelled	8.0	32	PDB header: hydrolase/protein transport Chain: X: PDB Molecule: phosphoinositide phosphatase sac1; PDBTitle: crystal structure of yeast sac1/vps74 complex
84	c1qgyA		not modelled	7.6	11	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp+ reductase; PDBTitle: ferredoxin:nadp+ reductase mutant with lys 75 replaced by glu (k75e)
85	c3iuwA		not modelled	7.5	38	PDB header: rna binding protein Chain: A: PDB Molecule: activating signal cointegrator; PDBTitle: crystal structure of activating signal cointegrator (np_814290.1) from2 enterococcus faecalis v583 at 1.58 a resolution
86	c2lj0A		not modelled	7.2	29	PDB header: signaling protein Chain: A: PDB Molecule: sorbin and sh3 domain-containing protein 1; PDBTitle: the third sh3 domain of r85fl
87	d1ra0a1		not modelled	7.1	26	Fold: Composite domain of metallo-dependent hydrolases Superfamily: Composite domain of metallo-dependent hydrolases Family: Cytosine deaminase
88	c3x2dM		not modelled	7.1	50	PDB header: viral protein/immune system Chain: M: PDB Molecule: envelope glycoprotein gp1; PDBTitle: crystal structure of marburg virus gp in complex with the human2 survivor antibody mr78
89	d1sm4a1		not modelled	6.9	20	Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferrredoxin reductase FAD-binding domain-like
90	c1vpzB		not modelled	6.9	36	PDB header: rna binding protein Chain: B: PDB Molecule: carbon storage regulator homolog; PDBTitle: crystal structure of a putative carbon storage regulator protein2 (csra, pa0905) from pseudomonas aeruginosa at 2.05 a resolution
91	c4pogC		not modelled	6.8	33	PDB header: replication, dna binding protein/dna Chain: C: PDB Molecule: cell division control protein 21; PDBTitle: mcm-ssdna co-crystal structure
92	c5o0xA		not modelled	6.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: putative ferric reductase; PDBTitle: crystal structure of dehydrogenase domain of cylindrospermum stagnale2 nadph-oxidase 5 (nox5)
93	c2qrA		not modelled	6.7	17	PDB header: protein binding Chain: A: PDB Molecule: engulfment and cell motility protein 1, linker, dedicator PDBTitle: the solution structure of human dock2 sh3 domain - elmo1 peptide2 chimera complex
94	c4y6tD		not modelled	6.7	23	PDB header: structural protein Chain: D: PDB Molecule: coat protein; PDBTitle: structure of tobacco streak virus coat protein dimer at 2.4 angstroms2 resolution
95	c3s88I		not modelled	6.7	63	PDB header: immune system/viral protein Chain: I: PDB Molecule: envelope glycoprotein; PDBTitle: crystal structure of sudan ebolavirus glycoprotein (strain gulu) bound2 to 16f6
96	c1krhA		not modelled	6.6	32	PDB header: oxidoreductase Chain: A: PDB Molecule: benzoate 1,2-dioxygenase reductase; PDBTitle: x-ray structure of benzoate dioxygenase reductase
97	c2vl6C		not modelled	6.4	33	PDB header: dna binding protein Chain: C: PDB Molecule: minichromosome maintenance protein mcm; PDBTitle: structural analysis of the sulfolobus solfataricus mcm2 protein n-terminal domain
98	c4g1bB		not modelled	6.3	30	PDB header: oxidoreductase Chain: B: PDB Molecule: flavohemoglobin; PDBTitle: x-ray structure of yeast flavohemoglobin in complex with econazole
99	c5j21C		not modelled	6.2	20	PDB header: hydrolase Chain: C: PDB Molecule: bifunctional oligoribonuclease and pap phosphatase rrna; PDBTitle: structure of bacillus nanornase a (wt)