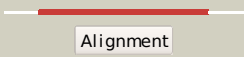

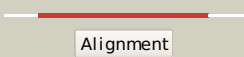

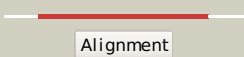

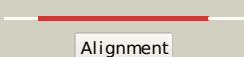
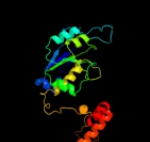
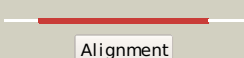
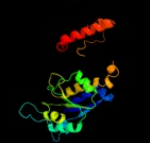
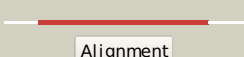

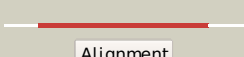
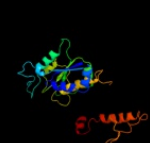
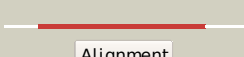

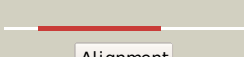

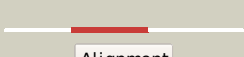









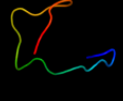































#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1uala_	 Alignment		100.0	83	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: tRNA(m1G37)-methyltransferase TrmD
2	d1p9pa_	 Alignment		100.0	100	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: tRNA(m1G37)-methyltransferase TrmD
3	c3ky7A_	 Alignment		100.0	43	PDB header: transferase Chain: A: PDB Molecule: trna (guanine-n(1)-)-methyltransferase; PDBTitle: 2.35 angstrom resolution crystal structure of a putative trna2 (guanine-7-)-methyltransferase (trmd) from staphylococcus aureus3 subsp. aureus mrsa252
4	c3iefA_	 Alignment		100.0	44	PDB header: transferase, rna binding protein Chain: A: PDB Molecule: trna (guanine-n(1)-)-methyltransferase; PDBTitle: crystal structure of trna guanine-n1-methyltransferase from2 bartonella henselae using mpcs.
5	c3quvB_	 Alignment		100.0	45	PDB header: transferase Chain: B: PDB Molecule: trna (guanine-n(1)-)-methyltransferase; PDBTitle: crystal structure of a trna-guanine-n1-methyltransferase from2 mycobacterium abscessus
6	c1oy5B_	 Alignment		100.0	41	PDB header: transferase Chain: B: PDB Molecule: trna (guanine-n(1)-)-methyltransferase; PDBTitle: crystal structure of trna (m1g37) methyltransferase from aquifex2 aeolicus
7	d1oy5a_	 Alignment		100.0	41	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: tRNA(m1G37)-methyltransferase TrmD
8	c3knuD_	 Alignment		100.0	45	PDB header: transferase Chain: D: PDB Molecule: trna (guanine-n(1)-)-methyltransferase; PDBTitle: crystal structure of trna (guanine-n1)-methyltransferase from2 anaplasma phagocytophilum
9	d1o6da_	 Alignment		97.2	8	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: YbeA-like
10	d1to0a_	 Alignment		96.4	21	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: YbeA-like
11	c2v3jA_	 Alignment		96.3	14	PDB header: ribosomal protein Chain: A: PDB Molecule: essential for mitotic growth 1; PDBTitle: the yeast ribosome synthesis factor emg1 alpha beta knot2 fold methyltransferase

12	dlvh0a_	Alignment		96.2	22	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: YbeA-like
13	d2v3ka1	Alignment		96.1	14	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: EMG1/NEP1-like
14	d1ns5a_	Alignment		95.0	19	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: YbeA-like
15	c3o7ba_	Alignment		78.5	18	PDB header: transferase Chain: A: PDB Molecule: ribosome biogenesis nep1 rna methyltransferase; PDBTitle: crystal structure of archaeoglobus fulgidus nep1 bound to s-2 adenosylhomocysteine
16	c3ai9X_	Alignment		46.1	24	PDB header: transferase Chain: X: PDB Molecule: upf0217 protein mj1640; PDBTitle: crystal structure of duf358 protein reveals a putative spout-class2 rrna methyltransferase
17	d3d3ra1	Alignment		44.2	38	Fold: OB-fold Superfamily: HupF/HypC-like Family: HupF/HypC-like
18	c3d3ra_	Alignment		43.1	38	PDB header: chaperone Chain: A: PDB Molecule: hydrogenase assembly chaperone hupc/hupf; PDBTitle: crystal structure of the hydrogenase assembly chaperone hupc/hupf2 family protein from shewanella oneidensis mr-1
19	d2ot2a1	Alignment		29.4	27	Fold: OB-fold Superfamily: HupF/HypC-like Family: HupF/HypC-like
20	d1dj3a_	Alignment		28.8	19	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
21	d1dj2a_	Alignment	not modelled	27.4	22	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
22	d2qmma1	Alignment	not modelled	25.8	24	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: AF1056-like
23	c1zmrA_	Alignment	not modelled	24.8	24	PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate kinase; PDBTitle: crystal structure of the e. coli phosphoglycerate kinase
24	c1zosE_	Alignment	not modelled	23.9	21	PDB header: hydrolase Chain: E: PDB Molecule: 5'-methylthioadenosine / s-adenosylhomocysteine PDBTitle: structure of 5'-methylthioadenosine/s-adenosylhomocysteine2 nucleosidase from s. pneumoniae with a transition-state3 inhibitor mt-imma
25	d2z1ca1	Alignment	not modelled	21.6	22	Fold: OB-fold Superfamily: HupF/HypC-like Family: HupF/HypC-like
26	d1sqsa_	Alignment	not modelled	21.1	9	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Hypothetical protein SP1951
27	d2z1aa2	Alignment	not modelled	20.3	23	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: 5'-nucleotidase (syn. UDP-sugar hydrolase), N-terminal domain
28	c1xi4O_	Alignment	not modelled	19.2	22	PDB header: endocytosis/exocytosis Chain: O: PDB Molecule: clathrin light chain a; PDBTitle: clathrin d6 coat

29	c1rcuB	 Alignment	not modelled	18.9	22	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: conserved hypothetical protein vt76; PDBTitle: x-ray structure of tm1055 northeast structural genomics2 consortium target vt76
30	d1rcua	 Alignment	not modelled	18.9	22	Fold: MCP/YpsA-like Superfamily: MCP/YpsA-like Family: MoCo carrier protein-like
31	d1vjda	 Alignment	not modelled	18.0	27	Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
32	d3bbda1	 Alignment	not modelled	17.2	15	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: EMG1/NEP1-like
33	c1zggA	 Alignment	not modelled	16.5	17	PDB header: hydrolase Chain: A: PDB Molecule: putative low molecular weight protein-tyrosine- PDBTitle: solution structure of a low molecular weight protein2 tyrosine phosphatase from bacillus subtilis
34	c3dcmX	 Alignment	not modelled	16.3	22	PDB header: transferase Chain: X: PDB Molecule: uncharacterized protein tm_1570; PDBTitle: crystal structure of the thermotoga maritima spout family2 rna-methyltransferase protein tm1570 in complex with s-3 adenosyl-l-methionine
35	d1qf5a	 Alignment	not modelled	15.7	21	Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Nitrogenase iron protein-like
36	d1jysa	 Alignment	not modelled	15.1	24	Fold: Phosphorylase/hydrolase-like Superfamily: Purine and uridine phosphorylases Family: Purine and uridine phosphorylases
37	c2ky8A	 Alignment	not modelled	14.9	55	PDB header: transcription/dna Chain: A: PDB Molecule: methyl-cpg-binding domain protein 2; PDBTitle: solution structure and dynamic analysis of chicken mbd2 methyl binding2 domain bound to a target methylated dna sequence
38	c2cunA	 Alignment	not modelled	14.4	16	PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate kinase; PDBTitle: crystal structure of phosphoglycerate kinase from pyrococcus2 horikoshii ot3
39	d1fdja	 Alignment	not modelled	14.1	15	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
40	c1w4zA	 Alignment	not modelled	13.6	13	PDB header: antibiotic biosynthesis Chain: A: PDB Molecule: ketoacyl reductase; PDBTitle: structure of actinorhodin polyketide (actiii) reductase
41	d16pka	 Alignment	not modelled	13.4	26	Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
42	d1prtf	 Alignment	not modelled	13.0	33	Fold: OB-fold Superfamily: Bacterial enterotoxins Family: Bacterial AB5 toxins, B-subunits
43	d1vpea	 Alignment	not modelled	12.6	23	Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
44	c3r7tA	 Alignment	not modelled	12.6	17	PDB header: ligase Chain: A: PDB Molecule: adenylosuccinate synthetase; PDBTitle: crystal structure of adenylosuccinate synthetase from campylobacter2 jejuni
45	d3dl3a1	 Alignment	not modelled	12.6	17	Fold: Double-stranded beta-helix Superfamily: Clavamate synthase-like Family: TehB-like
46	d1m2ka	 Alignment	not modelled	12.2	20	Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Sir2 family of transcriptional regulators
47	d1gsaa1	 Alignment	not modelled	12.2	15	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: Prokaryotic glutathione synthetase, N-terminal domain
48	d1v6sa	 Alignment	not modelled	11.8	20	Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
49	d3bb6a1	 Alignment	not modelled	11.6	8	Fold: Double-stranded beta-helix Superfamily: Clavamate synthase-like Family: TehB-like
50	d1hdia	 Alignment	not modelled	11.5	26	Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
51	d1pj3a1	 Alignment	not modelled	11.4	20	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Aminoacid dehydrogenase-like, C-terminal domain
52	d1ig4a	 Alignment	not modelled	11.1	29	Fold: DNA-binding domain Superfamily: DNA-binding domain Family: Methyl-CpG-binding domain, MBD
53	d1ltkA	 Alignment	not modelled	10.8	26	Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
54	d1phpa	 Alignment	not modelled	10.7	31	Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
55	d2qwva1	 Alignment	not modelled	10.6	18	Fold: alpha/beta knot Superfamily: alpha/beta knot

					Family: AF1056-like
56	d2fvka1	Alignment	not modelled	10.3	25 Fold: Composite domain of metallo-dependent hydrolases Superfamily: Composite domain of metallo-dependent hydrolases Family: Hydantoinase (dihydropyrimidinase)
57	c2yvaB_	Alignment	not modelled	10.1	17 PDB header: dna binding protein Chain: B: PDB Molecule: dnaa initiator-associating protein diaa; PDBTitle: crystal structure of escherichia coli diaa
58	d2o3aa1	Alignment	not modelled	9.8	25 Fold: alpha/beta knot Superfamily: alpha/beta knot Family: AF0751-like
59	d1ddza2	Alignment	not modelled	9.3	56 Fold: Resolvase-like Superfamily: beta-carbonic anhydrase, cab Family: beta-carbonic anhydrase, cab
60	d1qk9a_	Alignment	not modelled	9.2	36 Fold: DNA-binding domain Superfamily: DNA-binding domain Family: Methyl-CpG-binding domain, MBD
61	c2k1lB_	Alignment	not modelled	9.2	45 PDB header: signaling protein Chain: B: PDB Molecule: ephrin type-a receptor 1; PDBTitle: nmr structures of dimeric transmembrane domain of the2 receptor tyrosine kinase epha1 in lipid bicelles at ph 6.3
62	c2k1kA_	Alignment	not modelled	9.2	45 PDB header: signaling protein Chain: A: PDB Molecule: ephrin type-a receptor 1; PDBTitle: nmr structures of dimeric transmembrane domain of the2 receptor tyrosine kinase epha1 in lipid bicelles at ph 4.3
63	c2k1kB_	Alignment	not modelled	9.2	45 PDB header: signaling protein Chain: B: PDB Molecule: ephrin type-a receptor 1; PDBTitle: nmr structures of dimeric transmembrane domain of the2 receptor tyrosine kinase epha1 in lipid bicelles at ph 4.3
64	c2k1lA_	Alignment	not modelled	9.2	45 PDB header: signaling protein Chain: A: PDB Molecule: ephrin type-a receptor 1; PDBTitle: nmr structures of dimeric transmembrane domain of the2 receptor tyrosine kinase epha1 in lipid bicelles at ph 6.3
65	c3lf2B_	Alignment	not modelled	9.1	18 PDB header: oxidoreductase Chain: B: PDB Molecule: short chain oxidoreductase q9hya2; PDBTitle: nadph bound structure of the short chain oxidoreductase q9hya2 from2 pseudomonas aeruginosa pao1 containing an atypical catalytic center
66	c3ff4A_	Alignment	not modelled	9.0	12 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein chu_1412
67	c1gshA_	Alignment	not modelled	8.9	15 PDB header: glutathione biosynthesis ligase Chain: A: PDB Molecule: glutathione biosynthetic ligase; PDBTitle: structure of escherichia coli glutathione synthetase at ph 7.5
68	d1ddza1	Alignment	not modelled	8.9	78 Fold: Resolvase-like Superfamily: beta-carbonic anhydrase, cab Family: beta-carbonic anhydrase, cab
69	d1ub1a_	Alignment	not modelled	8.8	36 Fold: DNA-binding domain Superfamily: DNA-binding domain Family: Methyl-CpG-binding domain, MBD
70	c3ue9A_	Alignment	not modelled	8.8	18 PDB header: ligase Chain: A: PDB Molecule: adenylosuccinate synthetase; PDBTitle: crystal structure of adenylosuccinate synthetase (ampsase) (pura) from2 burkholderia thailandensis
71	c2yh5A_	Alignment	not modelled	8.7	21 PDB header: lipid binding protein Chain: A: PDB Molecule: dapx protein; PDBTitle: structure of the c-terminal domain of bamc
72	c3majA_	Alignment	not modelled	8.7	24 PDB header: dna binding protein Chain: A: PDB Molecule: dna processing chain a; PDBTitle: crystal structure of putative dna processing protein dpra from2 rhodopseudomonas palustris cga009
73	c3q3vA_	Alignment	not modelled	8.6	33 PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate kinase; PDBTitle: crystal structure of phosphoglycerate kinase from campylobacter2 jejuni.
74	c1ddzA_	Alignment	not modelled	8.3	78 PDB header: lyase Chain: A: PDB Molecule: carbonic anhydrase; PDBTitle: x-ray structure of a beta-carbonic anhydrase from the red2 alga, porphyridium purpureum r-1
75	c3eh0C_	Alignment	not modelled	8.1	22 PDB header: transferase Chain: C: PDB Molecule: udp-3-o-[3-hydroxymyristoyl] glucosamine n- PDBTitle: crystal structure of lpxd from escherichia coli
76	c3lasA_	Alignment	not modelled	8.1	22 PDB header: lyase Chain: A: PDB Molecule: putative carbonic anhydrase; PDBTitle: crystal structure of carbonic anhydrase from streptococcus mutans to2 1.4 angstrom resolution
77	d2cqaa1	Alignment	not modelled	8.0	15 Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: TIP49 domain
78	d2qmwa1	Alignment	not modelled	8.0	10 Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
79	d2rhca1	Alignment	not modelled	8.0	13 Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Tyrosine-dependent oxidoreductases
80	d1a5ca_	Alignment	not modelled	8.0	19 Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
81	d3c2wa2	Alignment	not modelled	7.8	13 Fold: Profilin-like Superfamily: GAF domain-like Family: Phytochrome-specific domain

82	d2dsma1	Alignment	not modelled	7.7	43	Fold: Yqal-like Superfamily: Yqal-like Family: Yqal-like
83	c3eyxB	Alignment	not modelled	7.6	22	PDB header: lyase Chain: B: PDB Molecule: carbonic anhydrase; PDBTitle: crystal structure of carbonic anhydrase nce103 from2 saccharomyces cerevisiae
84	d2a9va1	Alignment	not modelled	7.6	8	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: Class I glutamine amidotransferases (GAT)
85	d2do3a1	Alignment	not modelled	7.5	26	Fold: SH3-like barrel Superfamily: Translation proteins SH3-like domain Family: SPT5 KOW domain-like
86	c2q2qG	Alignment	not modelled	7.5	14	PDB header: oxidoreductase Chain: G: PDB Molecule: beta-d-hydroxybutyrate dehydrogenase; PDBTitle: structure of d-3-hydroxybutyrate dehydrogenase from pseudomonas putida
87	d1xfba1	Alignment	not modelled	7.5	19	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
88	d2fr1a1	Alignment	not modelled	7.5	7	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Tyrosine-dependent oxidoreductases
89	c3nkdB	Alignment	not modelled	7.4	29	PDB header: immune system Chain: B: PDB Molecule: crispr-associated protein cas1; PDBTitle: structure of crisp-associated protein cas1 from escherichia coli str.2 k-12
90	c2iz6A	Alignment	not modelled	7.3	18	PDB header: metal transport Chain: A: PDB Molecule: molybdenum cofactor carrier protein; PDBTitle: structure of the chlamydomonas reinhardtii moco carrier2 protein
91	c2pc4B	Alignment	not modelled	7.3	19	PDB header: lyase Chain: B: PDB Molecule: fructose-bisphosphate aldolase; PDBTitle: crystal structure of fructose-bisphosphate aldolase from plasmodium2 falciparum in complex with trap-tail determined at 2.4 angstrom3 resolution
92	d2pw6a1	Alignment	not modelled	7.1	9	Fold: Phosphorylase/hydrolase-like Superfamily: LigB-like Family: LigB-like
93	d1gxha	Alignment	not modelled	7.1	40	Fold: Acyl carrier protein-like Superfamily: Colicin E immunity proteins Family: Colicin E immunity proteins
94	c2d7uA	Alignment	not modelled	7.1	11	PDB header: ligase Chain: A: PDB Molecule: adenylosuccinate synthetase; PDBTitle: crystal structure of hypothetical adenylosuccinate synthetase, ph04382 from pyrococcus horikoshii ot3
95	c3ggsA	Alignment	not modelled	7.0	26	PDB header: transferase Chain: A: PDB Molecule: purine nucleoside phosphorylase; PDBTitle: human purine nucleoside phosphorylase double mutant e201q,n243d2 complexed with 2-fluoro-2'-deoxyadenosine
96	c2ph3B	Alignment	not modelled	6.9	18	PDB header: oxidoreductase Chain: B: PDB Molecule: 3-oxoacyl-[acyl carrier protein] reductase; PDBTitle: crystal structure of 3-oxoacyl-[acyl carrier protein] reductase2 ttha0415 from thermus thermophilus
97	d2vlqa1	Alignment	not modelled	6.8	20	Fold: Acyl carrier protein-like Superfamily: Colicin E immunity proteins Family: Colicin E immunity proteins
98	d1zaia1	Alignment	not modelled	6.8	19	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
99	d1v2xa	Alignment	not modelled	6.8	15	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: SpoU-like RNA 2'-O ribose methyltransferase