







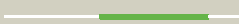








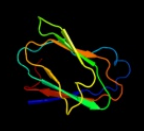




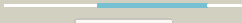
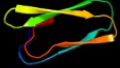
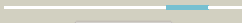
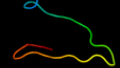
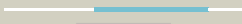












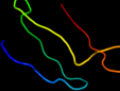

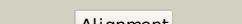



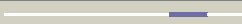





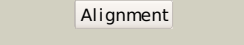
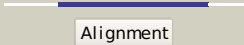


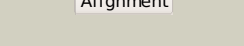
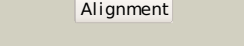
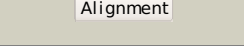

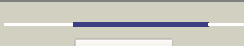

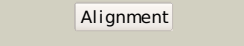

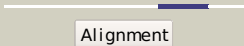
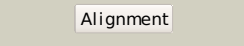
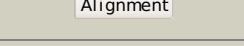









Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">dls4ca1</a>	 Alignment		100.0	28	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> Clavamate synthase-like <b>Family:</b> YhcH-like
2	<a href="#">dlyfua1</a>	 Alignment		85.4	20	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> 3-hydroxyanthranilic acid dioxygenase-like
3	<a href="#">dlv70a_</a>	 Alignment		76.9	17	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> TM1287-like
4	<a href="#">c3cewA_</a>	 Alignment		59.9	19	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized cupin protein; <b>PDBTitle:</b> crystal structure of a cupin protein (bf4112) from bacteroides2 fragilis. northeast structural genomics consortium target bfr205
5	<a href="#">c2i45C_</a>	 Alignment		58.1	22	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> C: <b>PDB Molecule:</b> hypothetical protein; <b>PDBTitle:</b> crystal structure of protein nmb1881 from neisseria meningitidis
6	<a href="#">dlzvfa1</a>	 Alignment		41.8	20	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> 3-hydroxyanthranilic acid dioxygenase-like
7	<a href="#">dl04ta_</a>	 Alignment		41.2	24	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> TM1287-like
8	<a href="#">dlvj2a_</a>	 Alignment		35.2	16	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> TM1459-like
9	<a href="#">d2pa7a1</a>	 Alignment		33.8	13	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> dTDP-sugar isomerase
10	<a href="#">d2arca_</a>	 Alignment		33.7	32	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> Regulatory protein AraC <b>Family:</b> Regulatory protein AraC
11	<a href="#">c2xxzA_</a>	 Alignment		33.6	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> lysine-specific demethylase 6b; <b>PDBTitle:</b> crystal structure of the human jmjd3 jumonji domain

12	<a href="#">d1j3pa_</a>		Alignment		32.8	24	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> Glucose-6-phosphate isomerase, GPI
13	<a href="#">c2xueB_</a>		Alignment		30.6	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> lysine-specific demethylase 6b; <b>PDBTitle:</b> crystal structure of jmjd3
14	<a href="#">c3d82A_</a>		Alignment		30.4	38	<b>PDB header:</b> metal binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> cupin 2, conserved barrel domain protein; <b>PDBTitle:</b> crystal structure of a cupin-2 domain containing protein (sfri_3543)2 from shewanella frigidimarina ncimb 400 at 2.05 a resolution
15	<a href="#">c2ozjB_</a>		Alignment		27.7	24	<b>PDB header:</b> unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> cupin 2, conserved barrel; <b>PDBTitle:</b> crystal structure of a cupin superfamily protein (dsy2733) from2 desulfitobacterium hafniense dcb-2 at 1.60 a resolution
16	<a href="#">c2fqpD_</a>		Alignment		27.4	13	<b>PDB header:</b> metal binding protein <b>Chain:</b> D: <b>PDB Molecule:</b> hypothetical protein bp2299; <b>PDBTitle:</b> crystal structure of a cupin domain (bp2299) from bordetella pertussis2 tohama i at 1.80 a resolution
17	<a href="#">c3kgzA_</a>		Alignment		23.5	16	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> cupin 2 conserved barrel domain protein; <b>PDBTitle:</b> crystal structure of a cupin 2 conserved barrel domain protein from2 rhodopseudomonas palustris
18	<a href="#">c2oa2A_</a>		Alignment		22.7	10	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> bh2720 protein; <b>PDBTitle:</b> crystal structure of bh2720 (10175341) from bacillus halodurans at2 1.41 a resolution
19	<a href="#">d1a6qa1</a>		Alignment		21.0	16	<b>Fold:</b> Another 3-helical bundle <b>Superfamily:</b> Protein serine/threonine phosphatase 2C, C-terminal domain <b>Family:</b> Protein serine/threonine phosphatase 2C, C-terminal domain
20	<a href="#">d1y9qa2</a>		Alignment		15.8	25	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> Probable transcriptional regulator VC1968, C-terminal domain
21	<a href="#">c2w2iC_</a>		Alignment	not modelled	14.6	24	<b>PDB header:</b> oxidoreductase <b>Chain:</b> C: <b>PDB Molecule:</b> 2-oxoglutarate oxygenase; <b>PDBTitle:</b> crystal structure of the human 2-oxoglutarate oxygenase2 loc390245
22	<a href="#">c2hdlA_</a>		Alignment	not modelled	13.6	24	<b>PDB header:</b> cytokine <b>Chain:</b> A: <b>PDB Molecule:</b> small inducible cytokine b14; <b>PDBTitle:</b> solution structure of brak/cxcl14
23	<a href="#">d3bb6a1</a>		Alignment	not modelled	13.1	24	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> Clavaminate synthase-like <b>Family:</b> TehB-like
24	<a href="#">c2os2A_</a>		Alignment	not modelled	13.1	23	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> jmjc domain-containing histone demethylation protein 3a; <b>PDBTitle:</b> crystal structure of jmjd2a complexed with histone h3 peptide2 trimethylated at lys36
25	<a href="#">c2q8eB_</a>		Alignment	not modelled	13.0	24	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> jmjc domain-containing histone demethylation <b>PDBTitle:</b> specificity and mechanism of jmjd2a, a trimethyllysine-2 specific histone demethylase
26	<a href="#">c3opwA_</a>		Alignment	not modelled	13.0	28	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dna damage-responsive transcriptional repressor rph1; <b>PDBTitle:</b> crystal structure of the rph1 catalytic core
27	<a href="#">d3dl3a1</a>		Alignment	not modelled	12.9	27	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> Clavaminate synthase-like <b>Family:</b> TehB-like
28	<a href="#">c3ibmB_</a>		Alignment	not modelled	11.5	23	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> cupin 2, conserved barrel domain protein;

						<b>PDBTitle:</b> crystal structure of cupin 2 domain-containing protein hhal_0468 from2 halorhodospira halophila
29	<a href="#">c3ebrA</a>		Alignment	not modelled	11.2	16 <b>PDB header:</b> unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized rmlc-like cupin; <b>PDBTitle:</b> crystal structure of an rmlc-like cupin protein (reut_a0381) from2 ralstonia eutropha jmp134 at 2.60 a resolution
30	<a href="#">c3fjsC</a>		Alignment	not modelled	10.8	27 <b>PDB header:</b> biosynthetic protein <b>Chain:</b> C: <b>PDB Molecule:</b> uncharacterized protein with rmlc-like cupin fold; <b>PDBTitle:</b> crystal structure of a putative biosynthetic protein with rmlc-like2 cupin fold (reut_b4087) from ralstonia eutropha jmp134 at 1.90 a3 resolution
31	<a href="#">d2es7a1</a>		Alignment	not modelled	10.3	21 <b>Fold:</b> Thioredoxin fold <b>Superfamily:</b> Thioredoxin-like <b>Family:</b> HyaE-like
32	<a href="#">c2pyhB</a>		Alignment	not modelled	10.1	26 <b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> poly(beta-d-mannuronate) c5 epimerase 4; <b>PDBTitle:</b> azotobacter vinelandii mannuronan c-5 epimerase alge4 a-module2 complexed with mannuronan trisaccharide
33	<a href="#">c3h8uA</a>		Alignment	not modelled	9.9	22 <b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized conserved protein with double-stranded <b>PDBTitle:</b> crystal structure of uncharacterized conserved protein with double-2 stranded beta-helix domain (yp_001338853.1) from klebsiella3 pneumoniae subsp. pneumoniae mgh 78578 at 1.80 a resolution
34	<a href="#">c2r32A</a>		Alignment	not modelled	9.8	7 <b>PDB header:</b> immune system <b>Chain:</b> A: <b>PDB Molecule:</b> gcn4-pii/tumor necrosis factor ligand <b>PDBTitle:</b> crystal structure of human gitrl variant
35	<a href="#">c2bx6A</a>		Alignment	not modelled	9.6	24 <b>PDB header:</b> transduction protein <b>Chain:</b> A: <b>PDB Molecule:</b> xrp2 protein; <b>PDBTitle:</b> crystal structure of the human retinitis pigmentosa2 protein 2 (rp2)
36	<a href="#">c3l2hD</a>		Alignment	not modelled	9.3	18 <b>PDB header:</b> isomerase <b>Chain:</b> D: <b>PDB Molecule:</b> putative sugar phosphate isomerase; <b>PDBTitle:</b> crystal structure of putative sugar phosphate isomerase (afe_0303)2 from acidithiobacillus ferrooxidans atcc 23270 at 1.85 a resolution
37	<a href="#">c2gu9B</a>		Alignment	not modelled	9.2	15 <b>PDB header:</b> immune system <b>Chain:</b> B: <b>PDB Molecule:</b> tetracenomycin polyketide synthesis protein; <b>PDBTitle:</b> crystal structure of xc5357 from xanthomonas campestris: a2 putative tetracenomycin polyketide synthesis protein3 adopting a novel cupin subfamily structure
38	<a href="#">c2oziA</a>		Alignment	not modelled	8.8	18 <b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> hypothetical protein rpa4178; <b>PDBTitle:</b> structural genomics, the crystal structure of a putative2 protein rpa4178 from rhodopseudomonas palustris cga009
39	<a href="#">c3ht2A</a>		Alignment	not modelled	8.6	28 <b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> remf protein; <b>PDBTitle:</b> zink containing polyketide cyclase remf from streptomyces2 resistomycificus
40	<a href="#">c2q30C</a>		Alignment	not modelled	7.7	17 <b>PDB header:</b> unknown function <b>Chain:</b> C: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of a rmlc-like cupin protein (dde_2303) from2 desulfovibrio desulfuricans subsp. at 1.94 a resolution
41	<a href="#">c2pfwB</a>		Alignment	not modelled	7.6	19 <b>PDB header:</b> unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> cupin 2, conserved barrel domain protein; <b>PDBTitle:</b> crystal structure of a rmlc-like cupin (sfri_3105) from shewanella2 frigidimarina ncimb 400 at 1.90 a resolution
42	<a href="#">c3emrA</a>		Alignment	not modelled	7.3	13 <b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> ectd; <b>PDBTitle:</b> crystal structure analysis of the ectoine hydroxylase ectd from2 salibacillus salexigens
43	<a href="#">d2a1xa1</a>		Alignment	not modelled	6.6	27 <b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> Clavamate synthase-like <b>Family:</b> PhyH-like
44	<a href="#">d1y3ta1</a>		Alignment	not modelled	6.2	25 <b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> Quercetin 2,3-dioxygenase-like
45	<a href="#">d1tvfa1</a>		Alignment	not modelled	6.2	27 <b>Fold:</b> Penicillin-binding protein associated domain <b>Superfamily:</b> Penicillin-binding protein associated domain <b>Family:</b> Penicillin binding protein 4 (PbpD), C-terminal domain
46	<a href="#">d2fcta1</a>		Alignment	not modelled	6.1	18 <b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> Clavamate synthase-like <b>Family:</b> PhyH-like
47	<a href="#">c2lazaA</a>		Alignment	not modelled	5.8	22 <b>PDB header:</b> signaling protein/transcription <b>Chain:</b> A: <b>PDB Molecule:</b> e3 ubiquitin-protein ligase smurf1; <b>PDBTitle:</b> structure of the first ww domain of human smurf1 in complex with a2 mono-phosphorylated human smad1 derived peptide
48	<a href="#">d1rc6a</a>		Alignment	not modelled	5.6	22 <b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> RmlC-like cupins <b>Family:</b> YlbA-like
49	<a href="#">d1j0sa</a>		Alignment	not modelled	5.6	24 <b>Fold:</b> beta-Trefoil <b>Superfamily:</b> Cytokine <b>Family:</b> Interleukin-1 (IL-1)
50	<a href="#">c2nnzA</a>		Alignment	not modelled	5.5	15 <b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> hypothetical protein; <b>PDBTitle:</b> solution structure of the hypothetical protein af2241 from2 archaeoglobus fulgidus
51	<a href="#">c2opwA</a>		Alignment	not modelled	5.4	21 <b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> phyhd1 protein; <b>PDBTitle:</b> crystal structure of human phytyl-coa dioxygenase phyhd1 (apo)

52	<a href="#">c2kpsA_</a>	 Alignment	not modelled	5.4	15	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> solution structure of domain iv from the ybbr family protein of2 desulfitobacterium hafniense
53	<a href="#">c2lb0A_</a>	 Alignment	not modelled	5.3	22	<b>PDB header:</b> signaling protein/transcription <b>Chain:</b> A: <b>PDB Molecule:</b> e3 ubiquitin-protein ligase smurf1; <b>PDBTitle:</b> structure of the first ww domain of human smurf1 in complex with a di-2 phosphorylated human smad1 derived peptide