

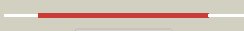


















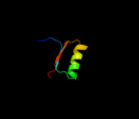



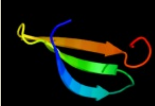




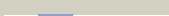






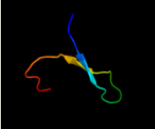


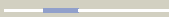


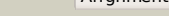

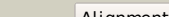


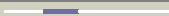


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3nkdB_	 Alignment		100.0	99	PDB header: immune system Chain: B: PDB Molecule: crispr-associated protein cas1; PDBTitle: structure of crisp-associated protein cas1 from escherichia coli str.2 k-12
2	c3godA_	 Alignment		100.0	25	PDB header: immune system Chain: A: PDB Molecule: cas1; PDBTitle: structural basis for dnase activity of a conserved protein2 implicated in crispr-mediated antiviral defense
3	c3lfxE_	 Alignment		100.0	18	PDB header: structural genomics, unknown function Chain: E: PDB Molecule: uncharacterized protein; PDBTitle: structure of tm1797, a cas1 protein from thermotoga maritima
4	c2yzsB_	 Alignment		100.0	17	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of uncharacterized conserved protein from2 aquifex aeolicus
5	c3pv9D_	 Alignment		100.0	17	PDB header: immune system Chain: D: PDB Molecule: putative uncharacterized protein ph1245; PDBTitle: structure of ph1245, a cas1 from pyrococcus horikoshii
6	c3nkeA_	 Alignment		100.0	99	PDB header: immune system Chain: A: PDB Molecule: protein ygbt; PDBTitle: high resolution structure of the c-terminal domain crisp-associated2 protein cas1 from escherichia coli str. k-12
7	d1p3da1	 Alignment		73.8	3	Fold: MurCD N-terminal domain Superfamily: MurCD N-terminal domain Family: MurCD N-terminal domain
8	d2jfga1	 Alignment		71.5	26	Fold: MurCD N-terminal domain Superfamily: MurCD N-terminal domain Family: MurCD N-terminal domain
9	d1j6ua1	 Alignment		63.4	10	Fold: MurCD N-terminal domain Superfamily: MurCD N-terminal domain Family: MurCD N-terminal domain
10	d2ioja1	 Alignment		48.3	13	Fold: MurF and HprK N-domain-like Superfamily: HprK N-terminal domain-like Family: DRTGG domain
11	c1jrxA_	 Alignment		42.1	19	PDB header: oxidoreductase Chain: A: PDB Molecule: flavocytochrome c; PDBTitle: crystal structure of arg402ala mutant flavocytochrome c32 from shewanella frigidimarina

12	c3nixF_	 Alignment		39.1	20	PDB header: oxidoreductase Chain: F: PDB Molecule: flavoprotein/dehydrogenase; PDBTitle: crystal structure of flavoprotein/dehydrogenase from cytophaga2 hutchinsonii. northeast structural genomics consortium target chr43.
13	c2hbpA_	 Alignment		37.0	13	PDB header: endocytosis, protein binding Chain: A: PDB Molecule: cytoskeleton assembly control protein sla1; PDBTitle: solution structure of sla1 homology domain 1
14	c3lhlA_	 Alignment		33.6	7	PDB header: hydrolase Chain: A: PDB Molecule: putative agmatinase; PDBTitle: crystal structure of a putative agmatinase from clostridium difficile
15	c1qo8A_	 Alignment		33.3	19	PDB header: oxidoreductase Chain: A: PDB Molecule: flavocytochrome c3 fumarate reductase; PDBTitle: the structure of the open conformation of a flavocytochrome2 c3 fumarate reductase
16	c2aczA_	 Alignment		27.2	18	PDB header: oxidoreductase/electron transport Chain: A: PDB Molecule: succinate dehydrogenase flavoprotein subunit; PDBTitle: complex ii (succinate dehydrogenase) from e. coli with atpenin a52 inhibitor co-crystallized at the ubiquinone binding site
17	c2f00A_	 Alignment		26.7	6	PDB header: ligase Chain: A: PDB Molecule: udp-n-acetylmuramate--l-alanine ligase; PDBTitle: escherichia coli murc
18	d1woha_	 Alignment		26.6	19	Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
19	c3mlqH_	 Alignment		22.8	20	PDB header: transferase/transcription Chain: H: PDB Molecule: transcription-repair coupling factor; PDBTitle: crystal structure of the thermus thermophilus transcription-repair2 coupling factor rna polymerase interacting domain with the thermus3 aquaticus rna polymerase beta1 domain
20	c1yq4A_	 Alignment		21.6	23	PDB header: oxidoreductase Chain: A: PDB Molecule: succinate dehydrogenase flavoprotein subunit; PDBTitle: avian respiratory complex ii with 3-nitropropionate and ubiquinone
21	c3nipB_	 Alignment	not modelled	20.6	10	PDB header: hydrolase Chain: B: PDB Molecule: 3-guanidinopropionase; PDBTitle: crystal structure of pseudomonas aeruginosa guanidinopropionase2 complexed with 1,6-diaminohexane
22	c3m1rF_	 Alignment	not modelled	20.1	17	PDB header: hydrolase Chain: F: PDB Molecule: formimidoylglutamase; PDBTitle: the crystal structure of formimidoylglutamase from bacillus2 subtilis subsp. subtilis str. 168
23	c3ff4A_	 Alignment	not modelled	19.8	8	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein chu_1412
24	d1neka2	 Alignment	not modelled	19.6	18	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: Succinate dehydrogenase/fumarate reductase flavoprotein N-terminal domain
25	d2aeba1	 Alignment	not modelled	19.6	13	Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
26	d1xfka_	 Alignment	not modelled	18.5	23	Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
27	d2d59a1	 Alignment	not modelled	18.5	17	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: CoA-binding domain
28	d1gq6a_	 Alignment	not modelled	18.4	23	Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
29	c1jqoA_	 Alignment	not modelled	18.3	20	PDB header: lyase Chain: A: PDB Molecule: phosphoenolpyruvate carboxylase; PDBTitle: crystal structure of c4-form phosphoenolpyruvate

					carboxylase from2 maize
30	d1jqoa_	Alignment	not modelled	18.3	20 Fold: TIM beta/alpha-barrel Superfamily: Phosphoenolpyruvate/pyruvate domain Family: Phosphoenolpyruvate carboxylase
31	d1pq3a_	Alignment	not modelled	17.6	17 Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
32	d1zhva2	Alignment	not modelled	17.2	11 Fold: Ferredoxin-like Superfamily: ACT-like Family: Atu0741-like
33	c1d4cB_	Alignment	not modelled	16.6	13 PDB header: oxidoreductase Chain: B: PDB Molecule: flavocytochrome c fumarate reductase; PDBTitle: crystal structure of the uncomplexed form of the2 flavocytochrome c fumarate reductase of shewanella3 putrefaciens strain mr-1
34	c2cunA_	Alignment	not modelled	16.5	13 PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate kinase; PDBTitle: crystal structure of phosphoglycerate kinase from pyrococcus2 horikoshii ot3
35	c3bioB_	Alignment	not modelled	15.5	13 PDB header: oxidoreductase Chain: B: PDB Molecule: oxidoreductase, gfo/ldh/moca family; PDBTitle: crystal structure of oxidoreductase (gfo/ldh/moca family member) from2 porphyromonas gingivalis w83
36	c1j6uA_	Alignment	not modelled	15.0	9 PDB header: ligase Chain: A: PDB Molecule: udp-n-acetylmuramate-alanine ligase murc; PDBTitle: crystal structure of udp-n-acetylmuramate-alanine ligase2 murc (tm0231) from thermotoga maritima at 2.3 a resolution
37	c3ihqA_	Alignment	not modelled	15.0	21 PDB header: flavoprotein, oxidoreductase Chain: A: PDB Molecule: rdme; PDBTitle: crystal structure of a ternary complex of aklavinone-112 hydroxylase with fad and aklavinone
38	c2e1mA_	Alignment	not modelled	15.0	14 PDB header: oxidoreductase Chain: A: PDB Molecule: l-glutamate oxidase; PDBTitle: crystal structure of l-glutamate oxidase from streptomyces sp. x-119-6
39	d2q4qa1	Alignment	not modelled	14.3	16 Fold: MTH938-like Superfamily: MTH938-like Family: MTH938-like
40	d1w4xa1	Alignment	not modelled	13.8	22 Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
41	d1cr6a2	Alignment	not modelled	13.7	16 Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Epoxide hydrolase
42	d2a0ma1	Alignment	not modelled	13.3	13 Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
43	d1vpea_	Alignment	not modelled	13.0	15 Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
44	d1ko7a1	Alignment	not modelled	12.9	15 Fold: MurF and HprK N-domain-like Superfamily: HprK N-terminal domain-like Family: HPr kinase/phoshatase HprK N-terminal domain
45	d2ceva_	Alignment	not modelled	12.9	13 Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
46	d2ooxe2	Alignment	not modelled	12.8	14 Fold: CBS-domain pair Superfamily: CBS-domain pair Family: CBS-domain pair
47	c3mlqE_	Alignment	not modelled	12.8	26 PDB header: transferase/transcription Chain: E: PDB Molecule: transcription-repair coupling factor; PDBTitle: crystal structure of the thermus thermophilus transcription-repair2 coupling factor rna polymerase interacting domain with the thermus3 aquaticus rna polymerase beta1 domain
48	c2eivH_	Alignment	not modelled	12.7	30 PDB header: hydrolase Chain: H: PDB Molecule: arginase; PDBTitle: crystal structure of the arginase from thermus thermophilus
49	d2fvta1	Alignment	not modelled	12.6	13 Fold: MTH938-like Superfamily: MTH938-like Family: MTH938-like
50	c2kbrA_	Alignment	not modelled	12.5	8 PDB header: structural protein/cell adhesion Chain: A: PDB Molecule: harmonin; PDBTitle: solution structure of harmonin n terminal domain in complex2 with a internal peptide of cadherin23
51	d1iuKa_	Alignment	not modelled	12.5	11 Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: CoA-binding domain
52	d1v6sa_	Alignment	not modelled	12.5	22 Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
53	c2pd2A_	Alignment	not modelled	12.1	9 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein st0148; PDBTitle: crystal structure of (st0148) conserved hypothetical from sulfobolus2 tokodaii strain7
54	d1phpa_	Alignment	not modelled	12.1	15 Fold: Phosphoglycerate kinase Superfamily: Phosphoglycerate kinase Family: Phosphoglycerate kinase
55	d1gsoa2	Alignment	not modelled	12.0	10 Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like

56	d1ybha1	Alignment	not modelled	12.0	9	Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Pyruvate oxidase and decarboxylase, middle domain
57	d1zvpa2	Alignment	not modelled	11.8	13	Fold: Ferredoxin-like Superfamily: ACT-like Family: VC0802-like
58	d1zd3a2	Alignment	not modelled	11.7	19	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Epoxide hydrolase
59	c3do5A_	Alignment	not modelled	11.5	18	PDB header: oxidoreductase Chain: A: PDB Molecule: homoserine dehydrogenase; PDBTitle: crystal structure of putative homoserine dehydrogenase (np_069768.1)2 from archaeoglobus fulgidus at 2.20 a resolution
60	d1d3va_	Alignment	not modelled	11.3	13	Fold: Arginase/deacetylase Superfamily: Arginase/deacetylase Family: Arginase-like amidino hydrolases
61	c3mmrA_	Alignment	not modelled	11.1	13	PDB header: hydrolase Chain: A: PDB Molecule: arginase; PDBTitle: structure of plasmodium falciparum arginase in complex with abh
62	c3cpiH_	Alignment	not modelled	11.1	14	PDB header: protein transport Chain: H: PDB Molecule: rab gdp-dissociation inhibitor; PDBTitle: crystal structure of yeast rab-gdi
63	c2qa2A_	Alignment	not modelled	10.9	12	PDB header: oxidoreductase Chain: A: PDB Molecule: polyketide oxygenase cab6; PDBTitle: crystal structure of cab6, an aromatic hydroxylase from angucycline2 biosynthesis, determined to 2.7 a resolution
64	c1zmrA_	Alignment	not modelled	10.9	20	PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate kinase; PDBTitle: crystal structure of the e. coli phosphoglycerate kinase
65	c1s1hB_	Alignment	not modelled	10.8	12	PDB header: ribosome Chain: B: PDB Molecule: 40s ribosomal protein s0-a; PDBTitle: structure of the ribosomal 80s-eef2-sordarin complex from2 yeast obtained by docking atomic models for rna and protein3 components into a 11.7 a cryo-em map. this file, 1s1h,4 contains 40s subunit. the 60s ribosomal subunit is in file5 1s1i.
66	c2duwA_	Alignment	not modelled	10.7	11	PDB header: ligand binding protein Chain: A: PDB Molecule: putative coa-binding protein; PDBTitle: solution structure of putative coa-binding protein of2 klebsiella pneumoniae
67	d2eyqa1	Alignment	not modelled	10.6	20	Fold: SH3-like barrel Superfamily: CarD-like Family: CarD-like
68	d2gf3a1	Alignment	not modelled	10.4	18	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD-linked reductases, N-terminal domain
69	c2dkhA_	Alignment	not modelled	10.4	18	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hydroxybenzoate hydroxylase; PDBTitle: crystal structure of 3-hydroxybenzoate hydroxylase from comamonas2 testosteroni, in complex with the substrate
70	d2fi9a1	Alignment	not modelled	10.2	9	Fold: MTH938-like Superfamily: MTH938-like Family: MTH938-like
71	c3pz1A_	Alignment	not modelled	10.1	27	PDB header: hydrolase Chain: A: PDB Molecule: agmatine ureohydrolase; PDBTitle: the crystal structure of agmatine ureohydrolase of thermoplasma2 volcanium
72	d2nmla1	Alignment	not modelled	10.1	24	Fold: ERH-like Superfamily: ERH-like Family: ERH-like
73	c3q3vA_	Alignment	not modelled	9.8	14	PDB header: transferase Chain: A: PDB Molecule: phosphoglycerate kinase; PDBTitle: crystal structure of phosphoglycerate kinase from campylobacter2 jejuni.
74	c2r4jA_	Alignment	not modelled	9.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: aerobic glycerol-3-phosphate dehydrogenase; PDBTitle: crystal structure of escherichia coli semet substituted2 glycerol-3-phosphate dehydrogenase in complex with dhap
75	c3fwzA_	Alignment	not modelled	9.7	16	PDB header: membrane protein Chain: A: PDB Molecule: inner membrane protein ybal; PDBTitle: crystal structure of trka-n domain of inner membrane protein ybal from2 escherichia coli
76	c3nioF_	Alignment	not modelled	9.6	21	PDB header: hydrolase Chain: F: PDB Molecule: guanidinobutyrase; PDBTitle: crystal structure of pseudomonas aeruginosa guanidinobutyrase
77	d1otha2	Alignment	not modelled	9.5	19	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
78	d2bcgg1	Alignment	not modelled	9.2	14	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: GDI-like N domain
79	d1euca1	Alignment	not modelled	9.1	17	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: CoA-binding domain
80	c2yg4B_	Alignment	not modelled	9.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: putrescine oxidase; PDBTitle: structure-based redesign of cofactor binding in putrescine2 oxidase: wild type bound to putrescine
81	c1oy5B_	Alignment	not modelled	8.7	16	PDB header: transferase Chain: B: PDB Molecule: trna (guanine-n(1)-)-methyltransferase; PDBTitle: crystal structure of trna (m1g37) methyltransferase from aquifex2 aeolicus

82	dloy5a_	Alignment	not modelled	8.7	16	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: tRNA(m1G37)-methyltransferase TrmD
83	c3mpoD_	Alignment	not modelled	8.7	24	PDB header: hydrolase Chain: D: PDB Molecule: predicted hydrolase of the had superfamily; PDBTitle: the crystal structure of a hydrolase from lactobacillus brevis
84	c2rgoA_	Alignment	not modelled	8.6	18	PDB header: oxidoreductase Chain: A: PDB Molecule: alpha-glycerophosphate oxidase; PDBTitle: structure of alpha-glycerophosphate oxidase from2 streptococcus sp.: a template for the mitochondrial alpha-3 glycerophosphate dehydrogenase
85	dly81a1	Alignment	not modelled	8.5	17	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: CoA-binding domain
86	c2p58A_	Alignment	not modelled	8.4	15	PDB header: transport protein/chaperone Chain: A: PDB Molecule: putative type iii secretion protein ysce; PDBTitle: structure of the yersinia pestis type iii secretion system2 needle protein yscf in complex with its chaperones3 ysce/yscg
87	c3fmwC_	Alignment	not modelled	8.3	9	PDB header: oxidoreductase Chain: C: PDB Molecule: oxxygenase; PDBTitle: the crystal structure of ntmioiv, a baeyer-villiger2 monooxygenase from the mithramycin biosynthetic pathway in3 streptomyces argillaceus.
88	d2ozga1	Alignment	not modelled	8.3	13	Fold: SCP-like Superfamily: SCP-like Family: EF1021 C-terminal domain-like
89	c3nyeA_	Alignment	not modelled	8.3	14	PDB header: oxidoreductase Chain: A: PDB Molecule: d-arginine dehydrogenase; PDBTitle: crystal structure of pseudomonas aeruginosa d-arginine dehydrogenase2 in complex with imino-arginine
90	d1zcza2	Alignment	not modelled	8.2	12	Fold: Cytidine deaminase-like Superfamily: Cytidine deaminase-like Family: AlCAR transformylase domain of bifunctional purine biosynthesis enzyme ATIC
91	c1zvpB_	Alignment	not modelled	8.1	13	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein vc0802; PDBTitle: crystal structure of a protein of unknown function vc0802 from vibrio2 cholerae, possible transport protein
92	c2l2qA_	Alignment	not modelled	8.1	15	PDB header: transferase Chain: A: PDB Molecule: pts system, cellobiose-specific iib component (cela); PDBTitle: solution structure of cellobiose-specific phosphotransferase iib2 component protein from borrelia burgdorferi
93	d3coxa1	Alignment	not modelled	8.1	26	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD-linked reductases, N-terminal domain
94	c2d6fA_	Alignment	not modelled	7.9	20	PDB header: ligase/rna Chain: A: PDB Molecule: glutamyl-trna(gln) amidotransferase subunit d; PDBTitle: crystal structure of glu-trna(gln) amidotransferase in the2 complex with trna(gln)
95	d1rlga_	Alignment	not modelled	7.9	9	Fold: Bacillus chorismate mutase-like Superfamily: L30e-like Family: L30e/L7ae ribosomal proteins
96	d2cvza1	Alignment	not modelled	7.8	22	Fold: 6-phosphogluconate dehydrogenase C-terminal domain-like Superfamily: 6-phosphogluconate dehydrogenase C-terminal domain-like Family: Hydroxyisobutyrate and 6-phosphogluconate dehydrogenase domain
97	d2npta1	Alignment	not modelled	7.7	12	Fold: beta-Grasp (ubiquitin-like) Superfamily: CAD & PB1 domains Family: PB1 domain
98	c3l78A_	Alignment	not modelled	7.6	9	PDB header: transcription Chain: A: PDB Molecule: regulatory protein spx; PDBTitle: the crystal structure of smu.1142c from streptococcus mutans ua159
99	c3nbmA_	Alignment	not modelled	7.5	24	PDB header: transferase Chain: A: PDB Molecule: pts system, lactose-specific iibc components; PDBTitle: the lactose-specific iib component domain structure of the2 phosphoenolpyruvate:carbohydrate phosphotransferase system (pts) from3 streptococcus pneumoniae.