




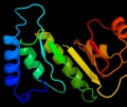


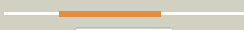









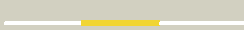










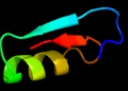





















#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2z1dA_	 Alignment		100.0	38	PDB header: metal binding protein Chain: A: PDB Molecule: hydrogenase expression/formation protein hypd; PDBTitle: crystal structure of [nife] hydrogenase maturation protein, hypd from2 thermococcus kodakaraensis
2	d7reqa2	 Alignment		95.1	14	Fold: Flavodoxin-like Superfamily: Cobalamin (vitamin B12)-binding domain Family: Cobalamin (vitamin B12)-binding domain
3	d1gqna_	 Alignment		90.6	21	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
4	c3bicA_	 Alignment		88.5	12	PDB header: isomerase Chain: A: PDB Molecule: methylmalonyl-coa mutase, mitochondrial precursor; PDBTitle: crystal structure of human methylmalonyl-coa mutase
5	c2yxbA_	 Alignment		87.1	17	PDB header: isomerase Chain: A: PDB Molecule: coenzyme b12-dependent mutase; PDBTitle: crystal structure of the methylmalonyl-coa mutase alpha-subunit from2 aeropyrum pernix
6	c2k8sA_	 Alignment		86.4	30	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin; PDBTitle: solution nmr structure of dimeric thioredoxin-like protein2 ne0084 from nitrosomonas europea: northeast structural3 genomics target net6
7	c3l2lB_	 Alignment		86.2	16	PDB header: lyase Chain: B: PDB Molecule: 3-dehydroquinate dehydratase; PDBTitle: 1.85 angstrom crystal structure of the 3-dehydroquinate dehydratase2 (arod) from salmonella typhimurium lt2.
8	c3js3C_	 Alignment		83.9	21	PDB header: lyase Chain: C: PDB Molecule: 3-dehydroquinate dehydratase; PDBTitle: crystal structure of type i 3-dehydroquinate dehydratase (arod) from2 clostridium difficile with covalent reaction intermediate
9	c2yr1B_	 Alignment		81.5	20	PDB header: lyase Chain: B: PDB Molecule: 3-dehydroquinate dehydratase; PDBTitle: crystal structure of 3-dehydroquinate dehydratase from geobacillus2 kaustophilus hta426
10	c2q5cA_	 Alignment		78.1	9	PDB header: transcription Chain: A: PDB Molecule: ntrc family transcriptional regulator; PDBTitle: crystal structure of ntrc family transcriptional regulator from2 clostridium acetobutylicum
11	d1poib_	 Alignment		73.5	22	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: CoA transferase beta subunit-like

12	c2pjuD	 Alignment		72.4	13	PDB header: transcription Chain: D: PDB Molecule: propionate catabolism operon regulatory protein; PDBTitle: crystal structure of propionate catabolism operon2 regulatory protein prpr
13	dlccwa	 Alignment		70.8	14	Fold: Flavodoxin-like Superfamily: Cobalamin (vitamin B12)-binding domain Family: Cobalamin (vitamin B12)-binding domain
14	d2pjuA1	 Alignment		69.8	13	Fold: Chelatase-like Superfamily: PrpR receptor domain-like Family: PrpR receptor domain-like
15	c3fldA	 Alignment		67.4	23	PDB header: hydrolase Chain: A: PDB Molecule: protein trai; PDBTitle: crystal structure of the trai c-terminal domain
16	dlaoaA	 Alignment		61.7	17	Fold: Prismane protein-like Superfamily: Prismane protein-like Family: Carbon monoxide dehydrogenase
17	clelcA	 Alignment		60.3	18	PDB header: isomerase Chain: A: PDB Molecule: methylmalonyl-coa mutase alpha chain; PDBTitle: methylmalonyl-coa mutase h244a mutant
18	dlsu7a	 Alignment		60.3	13	Fold: Prismane protein-like Superfamily: Prismane protein-like Family: Carbon monoxide dehydrogenase
19	cljqkE	 Alignment		56.6	15	PDB header: oxidoreductase Chain: E: PDB Molecule: carbon monoxide dehydrogenase; PDBTitle: crystal structure of carbon monoxide dehydrogenase from2 rhodospirillum rubrum
20	c3lteH	 Alignment		55.9	13	PDB header: transcription Chain: H: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator (signal receiver domain) from2 bermanella marisrubri
21	d2pl1a1	 Alignment	not modelled	54.1	14	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
22	dljqka	 Alignment	not modelled	54.1	15	Fold: Prismane protein-like Superfamily: Prismane protein-like Family: Carbon monoxide dehydrogenase
23	dlslfa	 Alignment	not modelled	53.3	10	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
24	c2axoA	 Alignment	not modelled	53.1	21	PDB header: unknown function Chain: A: PDB Molecule: hypothetical protein atu2684; PDBTitle: x-ray crystal structure of protein agr_c_4864 from agrobacterium2 tumefaciens. northeast structural genomics consortium target atr35.
25	d2fug61	 Alignment	not modelled	49.0	28	Fold: HydA/Nqo6-like Superfamily: HydA/Nqo6-like Family: Nqo6-like
26	dliloa	 Alignment	not modelled	45.5	21	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Thioltransferase
27	dlolta	 Alignment	not modelled	44.4	18	Fold: TIM beta/alpha-barrel Superfamily: Radical SAM enzymes Family: Oxygen-independent coproporphyrinogen III oxidase HemN
28	cle5dA	 Alignment	not modelled	43.9	14	PDB header: oxidoreductase Chain: A: PDB Molecule: rubredoxin: oxygen oxidoreductase; PDBTitle: rubredoxin oxygen:oxidoreductase (roo) from anaerobe2 desulfovibrio gigas
29	cle5IA	 Alignment	not modelled	42.3	18	PDB header: oxidoreductase Chain: A: PDB Molecule: saccharopine reductase;

					PDBTitle: apo saccharopine reductase from magnaporthe grisea
30	d2axoa1	Alignment	not modelled	40.8	18 Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Atu2684-like
31	c3gt7A_	Alignment	not modelled	39.5	13 PDB header: hydrolase Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of signal receiver domain of signal2 transduction histidine kinase from syntrophus3 aciditrophicus
32	c2qs0A_	Alignment	not modelled	38.6	16 PDB header: biosynthetic protein Chain: A: PDB Molecule: quinolinate synthetase a; PDBTitle: quinolinate synthase from pyrococcus furiosus
33	d1rjda_	Alignment	not modelled	36.2	27 Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Leucine carboxy methyltransferase Ppm1
34	d1mb6a_	Alignment	not modelled	36.0	31 Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: omega toxin-like Family: Spider toxins
35	d1niya_	Alignment	not modelled	35.9	46 Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: omega toxin-like Family: Spider toxins
36	c3c3mA_	Alignment	not modelled	35.8	10 PDB header: signaling protein Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of the n-terminal domain of response regulator2 receiver protein from methanoculleus marisnigri jr1
37	d1fmfa_	Alignment	not modelled	34.6	13 Fold: Flavodoxin-like Superfamily: Cobalamin (vitamin B12)-binding domain Family: Cobalamin (vitamin B12)-binding domain
38	d1mvoa_	Alignment	not modelled	34.1	13 Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
39	c2jk1A_	Alignment	not modelled	33.3	12 PDB header: dna-binding Chain: A: PDB Molecule: hydrogenase transcriptional regulatory protein hupr1; PDBTitle: crystal structure of the wild-type hupr receiver domain
40	d1nixa_	Alignment	not modelled	32.9	38 Fold: Knottins (small inhibitors, toxins, lectins) Superfamily: omega toxin-like Family: Spider toxins
41	c2zayA_	Alignment	not modelled	32.8	10 PDB header: signaling protein Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator from desulfuromonas2 acetoxidans
42	c3cnbC_	Alignment	not modelled	32.7	14 PDB header: dna binding protein Chain: C: PDB Molecule: dna-binding response regulator, merr family; PDBTitle: crystal structure of signal receiver domain of dna binding response2 regulator protein (merr) from colwellia psycherythraea 34h
43	d1mxsa_	Alignment	not modelled	32.4	14 Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
44	d2pw9a1	Alignment	not modelled	31.1	10 Fold: Cytidine deaminase-like Superfamily: Cytidine deaminase-like Family: FdhD/NarQ
45	d2dvt1	Alignment	not modelled	30.9	13 Fold: TIM beta/alpha-barrel Superfamily: Metallo-dependent hydrolases Family: PP1699/LP2961-like
46	d1zes1	Alignment	not modelled	29.5	12 Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
47	d1i5ea_	Alignment	not modelled	29.0	16 Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
48	d1wyza1	Alignment	not modelled	28.9	17 Fold: Tetrapyrrole methylase Superfamily: Tetrapyrrole methylase Family: Tetrapyrrole methylase
49	d1xcfa_	Alignment	not modelled	27.9	12 Fold: TIM beta/alpha-barrel Superfamily: Ribulose-phosphate binding barrel Family: Tryptophan biosynthesis enzymes
50	c3bo9B_	Alignment	not modelled	27.6	19 PDB header: oxidoreductase Chain: B: PDB Molecule: putative nitroalkane dioxygenase; PDBTitle: crystal structure of putative nitroalkane dioxygenase (tm0800) from2 thermotoga maritima at 2.71 a resolution
51	d2c4va1	Alignment	not modelled	27.1	14 Fold: Flavodoxin-like Superfamily: Type II 3-dehydroquinate dehydratase Family: Type II 3-dehydroquinate dehydratase
52	d1dcfa_	Alignment	not modelled	27.1	13 Fold: Flavodoxin-like Superfamily: CheY-like Family: Receiver domain of the ethylene receptor
53	d1efpb_	Alignment	not modelled	26.9	21 Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits
54	c1ic1A_	Alignment	not modelled	26.5	100 PDB header: de novo protein Chain: A: PDB Molecule: th1ox; PDBTitle: solution structure of designed beta-sheet mini-protein th1ox
55	c3h31A_	Alignment	not modelled	26.4	21 PDB header: electron transport Chain: A: PDB Molecule: high potential iron-sulfur protein; PDBTitle: structure of rhodothermus marinus hip1 at 1.0 a resolution PDB header: oxidoreductase

56	c3bw2A	Alignment	not modelled	26.1	16	Chain: A: PDB Molecule: 2-nitropropane dioxygenase; PDBTitle: crystal structures and site-directed mutagenesis study of nitroalkane2 oxidase from streptomyces ansochromogenes
57	c2nt3A	Alignment	not modelled	24.4	11	PDB header: signaling protein Chain: A: PDB Molecule: response regulator homolog; PDBTitle: receiver domain from myxococcus xanthus social motility protein frzs2 (y102a mutant)
58	d1xtta1	Alignment	not modelled	24.0	18	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
59	c2qzjC	Alignment	not modelled	23.8	16	PDB header: transcription Chain: C: PDB Molecule: two-component response regulator; PDBTitle: crystal structure of a two-component response regulator from2 clostridium difficile
60	c3ktoA	Alignment	not modelled	23.7	10	PDB header: transcription regulator Chain: A: PDB Molecule: response regulator receiver protein; PDBTitle: crystal structure of response regulator receiver protein2 from pseudoalteromonas atlantica
61	c2e55D	Alignment	not modelled	23.6	20	PDB header: transferase Chain: D: PDB Molecule: uracil phosphoribosyltransferase; PDBTitle: structure of aq2163 protein from aquifex aeolicus
62	c3epmB	Alignment	not modelled	23.4	38	PDB header: biosynthetic protein Chain: B: PDB Molecule: thiamine biosynthesis protein thic; PDBTitle: crystal structure of caulobacter crescentus thic
63	d1v9sa1	Alignment	not modelled	22.7	16	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
64	c2p2vA	Alignment	not modelled	22.3	15	PDB header: transferase Chain: A: PDB Molecule: alpha-2,3-sialyltransferase; PDBTitle: crystal structure analysis of monofunctional alpha-2,3-2 sialyltransferase cst-i from campylobacter jejuni
65	d1o58a	Alignment	not modelled	22.3	22	Fold: Tryptophan synthase beta subunit-like PLP-dependent enzymes Superfamily: Tryptophan synthase beta subunit-like PLP-dependent enzymes Family: Tryptophan synthase beta subunit-like PLP-dependent enzymes
66	c2o7qA	Alignment	not modelled	22.3	16	PDB header: oxidoreductase,transferase Chain: A: PDB Molecule: bifunctional 3-dehydroquinate dehydratase/shikimate PDBTitle: crystal structure of the a. thaliana dhq-dehydroshikimate-sdh-2 shikimate-nadp(h)
67	c1q68A	Alignment	not modelled	20.5	47	PDB header: membrane protein/transferase Chain: A: PDB Molecule: t-cell surface glycoprotein cd4; PDBTitle: solution structure of t-cell surface glycoprotein cd4 and2 proto-oncogene tyrosine-protein kinase lck fragments
68	c1e8cB	Alignment	not modelled	20.4	19	PDB header: ligase Chain: B: PDB Molecule: udp-n-acetylmuramoylalanyl-d-glutamate--2,6- PDBTitle: structure of mure the udp-n-acetylmuramyl tripeptide2 synthetase from e. coli
69	c2jtbA	Alignment	not modelled	20.1	42	PDB header: toxin Chain: A: PDB Molecule: hainantoxin-3; PDBTitle: three dimensional solution structure of hainantoxin-iii by2 2d 1h-nmr
70	c3o3nB	Alignment	not modelled	20.1	16	PDB header: lyase Chain: B: PDB Molecule: beta-subunit 2-hydroxyacyl-coa dehydratase; PDBTitle: (r)-2-hydroxysocaproyl-coa dehydratase in complex with its substrate2 (r)-2-hydroxysocaproyl-coa
71	d7odca2	Alignment	not modelled	20.1	14	Fold: TIM beta/alpha-barrel Superfamily: PLP-binding barrel Family: Alanine racemase-like, N-terminal domain
72	c2oczA	Alignment	not modelled	19.9	13	PDB header: lyase Chain: A: PDB Molecule: 3-dehydroquinate dehydratase; PDBTitle: the structure of a putative 3-dehydroquinate dehydratase from2 streptococcus pyogenes.
73	c3kwpA	Alignment	not modelled	19.6	14	PDB header: transferase Chain: A: PDB Molecule: predicted methyltransferase; PDBTitle: crystal structure of putative methyltransferase from lactobacillus2 brevis
74	c2g40A	Alignment	not modelled	19.5	4	PDB header: unknown function Chain: A: PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of a duf162 family protein (dr_1909) from2 deinococcus radiodurans at 1.70 a resolution
75	d2g40a1	Alignment	not modelled	19.5	4	Fold: NagB/RpiA/CoA transferase-like Superfamily: NagB/RpiA/CoA transferase-like Family: YkgG-like
76	d1uqra	Alignment	not modelled	19.4	16	Fold: Flavodoxin-like Superfamily: Type II 3-dehydroquinate dehydratase Family: Type II 3-dehydroquinate dehydratase
77	d1gtza	Alignment	not modelled	19.2	20	Fold: Flavodoxin-like Superfamily: Type II 3-dehydroquinate dehydratase Family: Type II 3-dehydroquinate dehydratase
78	c2qsjB	Alignment	not modelled	19.0	18	PDB header: transcription Chain: B: PDB Molecule: dna-binding response regulator, luxr family; PDBTitle: crystal structure of a luxr family dna-binding response2 regulator from silicibacter pomeroyi
79	c3hdgE	Alignment	not modelled	19.0	13	PDB header: structural genomics, unknown function Chain: E: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of the n-terminal domain of an2 uncharacterized protein (ws1339) from wolinetella3 succinogenes
80	d1k3sa	Alignment	not modelled	18.5	19	Fold: Secretion chaperone-like Superfamily: Type III secretory system chaperone-like Family: Type III secretory system chaperone
						PDB header: oxidoreductase

81	c3ju3A_	Alignment	not modelled	18.1	13	Chain: A: PDB Molecule: probable 2-oxoacid ferredoxin oxidoreductase, alpha chain; PDBTitle: crystal structure of alpha chain of probable 2-oxoacid ferredoxin2 oxidoreductase from thermoplasma acidophilum
82	c2iv0A_	Alignment	not modelled	17.9	16	PDB header: oxidoreductase Chain: A: PDB Molecule: isocitrate dehydrogenase; PDBTitle: thermal stability of isocitrate dehydrogenase from2 archaeoglobus fulgidus studied by crystal structure3 analysis and engineering of chimeras
83	c2fgxA_	Alignment	not modelled	17.9	27	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative thioredoxin; PDBTitle: solution nmr structure of protein ne2328 from nitrosomonas2 europaea. northeast structural genomics consortium target3 net3.
84	d3clsc1	Alignment	not modelled	17.3	17	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits
85	c2nvwB_	Alignment	not modelled	17.2	11	PDB header: transcription Chain: B: PDB Molecule: galactose/lactose metabolism regulatory protein PDBTitle: crystal sctucture of transcriptional regulator gal80p from2 kluveromymes lactis
86	c3kcnA_	Alignment	not modelled	17.1	14	PDB header: lyase Chain: A: PDB Molecule: adenylate cyclase homolog; PDBTitle: the crystal structure of adenylate cyclase from2 rhodopirellula baltica
87	d1s4da_	Alignment	not modelled	16.6	15	Fold: Tetrapyrrole methylase Superfamily: Tetrapyrrole methylase Family: Tetrapyrrole methylase
88	d1o5oa_	Alignment	not modelled	16.5	14	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
89	c3shoA_	Alignment	not modelled	16.4	14	PDB header: transcription regulator Chain: A: PDB Molecule: transcriptional regulator, rpir family; PDBTitle: crystal structure of rpir transcription factor from sphaerobacter2 thermophilus (sugar isomerase domain)
90	d1j6ua2	Alignment	not modelled	16.2	16	Fold: MurD-like peptide ligases, peptide-binding domain Superfamily: MurD-like peptide ligases, peptide-binding domain Family: MurCDEF C-terminal domain
91	c2yswB_	Alignment	not modelled	16.1	13	PDB header: lyase Chain: B: PDB Molecule: 3-dehydroquinate dehydratase; PDBTitle: crystal structure of the 3-dehydroquinate dehydratase from aquifex2 aeolicus vf5
92	c3myrE_	Alignment	not modelled	16.0	23	PDB header: oxidoreductase Chain: E: PDB Molecule: hydrogenase (nife) small subunit hyda; PDBTitle: crystal structure of [nife] hydrogenase from allochromatium vinosum in2 its ni-a state
93	d1ey1a_	Alignment	not modelled	15.8	16	Fold: NusB-like Superfamily: NusB-like Family: Antitermination factor NusB
94	c3h5iA_	Alignment	not modelled	15.7	10	PDB header: transcription Chain: A: PDB Molecule: response regulator/sensory box protein/ggdef PDBTitle: crystal structure of the n-terminal domain of a response2 regulator/sensory box/ggdef 3-domain protein from3 carboxydotherrmus hydrogenoformans
95	c3hdvB_	Alignment	not modelled	15.6	15	PDB header: transcription regulator Chain: B: PDB Molecule: response regulator; PDBTitle: crystal structure of response regulator receiver protein from2 pseudomonas putida
96	d1e8ca2	Alignment	not modelled	15.5	17	Fold: MurD-like peptide ligases, peptide-binding domain Superfamily: MurD-like peptide ligases, peptide-binding domain Family: MurCDEF C-terminal domain
97	d2bb3a1	Alignment	not modelled	15.2	20	Fold: Tetrapyrrole methylase Superfamily: Tetrapyrrole methylase Family: Tetrapyrrole methylase
98	d1l0sa_	Alignment	not modelled	15.0	63	Fold: Single-stranded left-handed beta-helix Superfamily: An insect antifreeze protein Family: An insect antifreeze protein
99	c1o5zA_	Alignment	not modelled	14.9	13	PDB header: ligase Chain: A: PDB Molecule: folylpolyglutamate synthase/dihydrofolate synthase; PDBTitle: crystal structure of folylpolyglutamate synthase (tm0166) from2 thermotoga maritima at 2.10 a resolution