



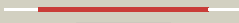
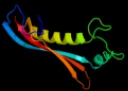













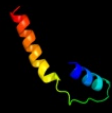





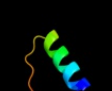







#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1y2iC_	 Alignment		100.0	97	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: hypothetical protein s0862; PDBTitle: crystal structure of mcsg target apc27401 from shigella2 flexneri
2	d1y2ia_	 Alignment		100.0	97	Fold: Dodecin subunit-like Superfamily: YbjQ-like Family: YbjQ-like
3	d1vr4a1	 Alignment		100.0	55	Fold: Dodecin subunit-like Superfamily: YbjQ-like Family: YbjQ-like
4	c3qkbB_	 Alignment		99.9	24	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a protein with unknown function which belongs to2 pfam duf74 family (pepe_0654) from pediococcus pentosaceus atcc 257453 at 2.73 a resolution
5	c2y1bA_	 Alignment		97.7	19	PDB header: membrane protein Chain: A: PDB Molecule: putative outer membrane protein, signal; PDBTitle: crystal structure of the e. coli outer membrane lipoprotein2 rcscf
6	c2jz7A_	 Alignment		97.7	22	PDB header: selenium-binding protein Chain: A: PDB Molecule: selenium binding protein; PDBTitle: solution nmr structure of selenium-binding protein from2 methanococcus vanniellii
7	c3bfjK_	 Alignment		23.9	12	PDB header: oxidoreductase Chain: K: PDB Molecule: 1,3-propanediol oxidoreductase; PDBTitle: crystal structure analysis of 1,3-propanediol oxidoreductase
8	c1xuzA_	 Alignment		18.0	33	PDB header: biosynthetic protein Chain: A: PDB Molecule: polysialic acid capsule biosynthesis protein siac; PDBTitle: crystal structure analysis of sialic acid synthase (neub)from2 neisseria meningitidis, bound to mn2+, phosphoenolpyruvate, and n-3 acetyl mannosaminitol
9	c1vliA_	 Alignment		16.8	39	PDB header: biosynthetic protein Chain: A: PDB Molecule: spore coat polysaccharide biosynthesis protein spse; PDBTitle: crystal structure of spore coat polysaccharide biosynthesis protein2 spse (bsu37870) from bacillus subtilis at 2.38 a resolution
10	c1zvaA_	 Alignment		16.6	24	PDB header: viral protein Chain: A: PDB Molecule: e2 glycoprotein; PDBTitle: a structure-based mechanism of sars virus membrane fusion
11	c2cx8B_	 Alignment		16.0	17	PDB header: transferase Chain: B: PDB Molecule: methyl transferase; PDBTitle: crystal structure of methyltransferase with ligand(sah)

12	d1vhka2	Alignment		15.2	24	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: YggJ C-terminal domain-like
13	d1gefa_	Alignment		14.5	17	Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: Hjc-like
14	d1vlia2	Alignment		13.8	39	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: NeuB-like
15	d1hh1a_	Alignment		13.5	24	Fold: Restriction endonuclease-like Superfamily: Restriction endonuclease-like Family: Hjc-like
16	d1w96a2	Alignment		13.1	25	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
17	c2qjhH_	Alignment		12.8	46	PDB header: lyase Chain: H: PDB Molecule: putative aldolase mj0400; PDBTitle: m. jannaschii adh synthase covalently bound to2 dihydroxyacetone phosphate
18	c1z85B_	Alignment		12.0	18	PDB header: transferase Chain: B: PDB Molecule: hypothetical protein tm1380; PDBTitle: crystal structure of a predicted rna methyltransferase (tm1380) from2 thermotoga maritima msb8 at 2.12 a resolution
19	d2j5ya1	Alignment		12.0	40	Fold: immunoglobulin/albumin-binding domain-like Superfamily: Bacterial immunoglobulin/albumin-binding domains Family: GA module, an albumin-binding domain
20	d1to3a_	Alignment		11.9	25	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
21	c3gndC_	Alignment	not modelled	11.9	31	PDB header: lyase Chain: C: PDB Molecule: aldolase lsrf; PDBTitle: crystal structure of e. coli lsrf in complex with ribulose-5-phosphate
22	c3jzdA_	Alignment	not modelled	11.6	27	PDB header: oxidoreductase Chain: A: PDB Molecule: iron-containing alcohol dehydrogenase; PDBTitle: crystal structure of putative alcohol dehydrogenase (yp_298327.1) from2 ralstonia eutropha jmp134 at 2.10 a resolution
23	c2wj0B_	Alignment	not modelled	11.6	32	PDB header: hydrolase/dna Chain: B: PDB Molecule: archaeal hjc; PDBTitle: crystal structures of holliday junction resolvases from2 archaeoglobus fulgidus bound to dna substrate
24	d1v6za2	Alignment	not modelled	11.3	18	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: YggJ C-terminal domain-like
25	d2zdra2	Alignment	not modelled	10.8	28	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: NeuB-like
26	c2v9dB_	Alignment	not modelled	10.5	47	PDB header: lyase Chain: B: PDB Molecule: yage; PDBTitle: crystal structure of yage, a prophage protein belonging to2 the dihydrodipicolinic acid synthase family from e. coli3 k12
27	c3iv7B_	Alignment	not modelled	10.4	19	PDB header: oxidoreductase Chain: B: PDB Molecule: alcohol dehydrogenase iv; PDBTitle: crystal structure of iron-containing alcohol dehydrogenase2 (np_602249.1) from corynebacterium glutamicum atcc 13032 kitasato at3 2.07 a resolution
28	d1a53a_	Alignment	not modelled	10.2	46	Fold: TIM beta/alpha-barrel Superfamily: Ribulose-phosphate binding barrel Family: Tryptophan biosynthesis enzymes

29	c2rdcA_	Alignment	not modelled	10.2	26	PDB header: lipid binding protein Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a putative lipid binding protein (gsu0061) from2 geobacter sulfurreducens pca at 1.80 a resolution
30	c3cmgA_	Alignment	not modelled	10.1	26	PDB header: hydrolase Chain: A: PDB Molecule: putative beta-galactosidase; PDBTitle: crystal structure of putative beta-galactosidase from bacteroides2 fragilis
31	d2je8a5	Alignment	not modelled	10.0	11	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: beta-glycanases
32	c3d0cB_	Alignment	not modelled	9.8	53	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 oceanobacillus iheyensis at 1.9 a resolution
33	c3ox4D_	Alignment	not modelled	9.5	19	PDB header: oxidoreductase Chain: D: PDB Molecule: alcohol dehydrogenase 2; PDBTitle: structures of iron-dependent alcohol dehydrogenase 2 from zymomonas2 mobilis zm4 complexed with nad cofactor
34	c2r94B_	Alignment	not modelled	9.4	40	PDB header: lyase Chain: B: PDB Molecule: 2-keto-3-deoxy-(6-phospho-)gluconate aldolase; PDBTitle: crystal structure of kd(p)ga from t.tenax
35	d1ulza2	Alignment	not modelled	9.3	31	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
36	c3mtjA_	Alignment	not modelled	9.2	23	PDB header: oxidoreductase Chain: A: PDB Molecule: homoserine dehydrogenase; PDBTitle: the crystal structure of a homoserine dehydrogenase from thiobacillus2 denitrificans to 2.15a
37	d1uf3a_	Alignment	not modelled	9.0	37	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: TT1561-like
38	c2egwB_	Alignment	not modelled	8.6	23	PDB header: rna methyltransferase Chain: B: PDB Molecule: upf0088 protein aq_165; PDBTitle: crystal structure of rna methyltransferase with sah ligand
39	c3sz8D_	Alignment	not modelled	8.4	33	PDB header: transferase Chain: D: PDB Molecule: 2-dehydro-3-deoxyphosphooctonate aldolase 2; PDBTitle: crystal structure of 2-dehydro-3-deoxyphosphooctonate aldolase from2 burkholderia pseudomallei
40	d1xxa1	Alignment	not modelled	8.3	27	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
41	c2nuxB_	Alignment	not modelled	7.8	16	PDB header: lyase Chain: B: PDB Molecule: 2-keto-3-deoxygluconate/2-keto-3-deoxy-6-phospho gluconate PDBTitle: 2-keto-3-deoxygluconate aldolase from sulfolobus acidocaldarius,2 native structure in p6522 at 2.5 a resolution
42	d1rrma_	Alignment	not modelled	7.6	24	Fold: Dehydroquinase synthase-like Superfamily: Dehydroquinase synthase-like Family: Iron-containing alcohol dehydrogenase
43	d1vlja_	Alignment	not modelled	7.5	24	Fold: Dehydroquinase synthase-like Superfamily: Dehydroquinase synthase-like Family: Iron-containing alcohol dehydrogenase
44	c3jrkG_	Alignment	not modelled	7.4	33	PDB header: lyase Chain: G: PDB Molecule: tagatose 1,6-diphosphate aldolase 2; PDBTitle: a putative tagatose 1,6-diphosphate aldolase from streptococcus2 pyogenes
45	c2rfgB_	Alignment	not modelled	7.4	40	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from hahella2 chejuensis at 1.5a resolution
46	c2vc6A_	Alignment	not modelled	7.4	33	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of mosa from s. meliloti with pyruvate bound
47	d1o5ka_	Alignment	not modelled	7.4	37	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
48	d1hl2a_	Alignment	not modelled	7.3	40	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
49	d2j9ga2	Alignment	not modelled	7.2	31	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
50	c2hdlA_	Alignment	not modelled	7.2	24	PDB header: cytokine Chain: A: PDB Molecule: small inducible cytokine b14; PDBTitle: solution structure of brak/cxcl14
51	c3stgA_	Alignment	not modelled	7.2	20	PDB header: transferase Chain: A: PDB Molecule: 2-dehydro-3-deoxyphosphooctonate aldolase; PDBTitle: crystal structure of a58p, del(n59), and loop 7 truncated mutant of 3-2 deoxy-d-manno-octulosonate 8-phosphate synthase (kdo8ps) from3 neisseria meningitidis
52	d1p5dx4	Alignment	not modelled	7.1	21	Fold: TBP-like Superfamily: Phosphoglucosyltransferase, C-terminal domain Family: Phosphoglucosyltransferase, C-terminal domain
53	c3dz1A_	Alignment	not modelled	7.1	26	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 rhodospseudomonas palustris at 1.87a resolution
54	c2pkhE_	Alignment	not modelled	7.0	26	PDB header: lyase Chain: E: PDB Molecule: dihydrodipicolinate synthase;

54	c2emhL	Alignment	not modelled	7.0	20	PDBTitle: crystal structure of dihydrodipicolinate synthase from2 aquifex aeolicus PDB header: lyase
55	c3e96B	Alignment	not modelled	6.8	58	Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 bacillus clausii
56	d2noca1	Alignment	not modelled	6.8	31	Fold: Dodecin subunit-like Superfamily: YdgH-like Family: YdgH-like
57	d2a6na1	Alignment	not modelled	6.8	13	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
58	d1o2da	Alignment	not modelled	6.7	24	Fold: Dehydroquinase synthase-like Superfamily: Dehydroquinase synthase-like Family: Iron-containing alcohol dehydrogenase
59	c3hl0B	Alignment	not modelled	6.7	32	PDB header: oxidoreductase Chain: B: PDB Molecule: maleylacetate reductase; PDBTitle: crystal structure of maleylacetate reductase from agrobacterium2 tumefaciens
60	c1vhkA	Alignment	not modelled	6.7	24	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein yqeu; PDBTitle: crystal structure of an hypothetical protein
61	c3lerA	Alignment	not modelled	6.4	26	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 campylobacter jejuni subsp. jejuni nctc 11168
62	d1geqa	Alignment	not modelled	6.4	21	Fold: TIM beta/alpha-barrel Superfamily: Ribulose-phosphate binding barrel Family: Tryptophan biosynthesis enzymes
63	c2r8wB	Alignment	not modelled	6.3	37	PDB header: lyase Chain: B: PDB Molecule: agr_c_1641p; PDBTitle: the crystal structure of dihydrodipicolinate synthase (atu0899) from2 agrobacterium tumefaciens str. c58
64	c3lciA	Alignment	not modelled	6.2	32	PDB header: lyase Chain: A: PDB Molecule: n-acetylneuraminate lyase; PDBTitle: the d-sialic acid aldolase mutant v251w
65	c3g0sA	Alignment	not modelled	6.1	13	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: dihydrodipicolinate synthase from salmonella typhimurium lt2
66	d1nxza2	Alignment	not modelled	6.1	14	Fold: alpha/beta knot Superfamily: alpha/beta knot Family: YggJ C-terminal domain-like
67	d1ejxb	Alignment	not modelled	6.0	57	Fold: beta-clip Superfamily: Urease, beta-subunit Family: Urease, beta-subunit
68	c3fkka	Alignment	not modelled	6.0	26	PDB header: lyase Chain: A: PDB Molecule: l-2-keto-3-deoxyarabonate dehydratase; PDBTitle: structure of l-2-keto-3-deoxyarabonate dehydratase
69	c3fluD	Alignment	not modelled	6.0	26	PDB header: lyase Chain: D: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from the pathogen2 neisseria meningitidis
70	c3cprB	Alignment	not modelled	5.8	32	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthetase; PDBTitle: the crystal structure of corynebacterium glutamicum2 dihydrodipicolinate synthase to 2.2 a resolution
71	d2g7oa1	Alignment	not modelled	5.8	21	Fold: TraM-like Superfamily: TraM-like Family: TraM-like
72	c3b4uB	Alignment	not modelled	5.7	16	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from agrobacterium2 tumefaciens str. c58
73	d1w3ia	Alignment	not modelled	5.7	6	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
74	c3gjxD	Alignment	not modelled	5.6	22	PDB header: protein transport Chain: D: PDB Molecule: exportin-1; PDBTitle: crystal structure of the nuclear export complex crm1-2 snurportin1-rangtp
75	c3n2xB	Alignment	not modelled	5.6	37	PDB header: lyase Chain: B: PDB Molecule: uncharacterized protein yage; PDBTitle: crystal structure of yage, a prophage protein belonging to the2 dihydrodipicolinic acid synthase family from e. coli k12 in complex3 with pyruvate
76	c3pueA	Alignment	not modelled	5.5	42	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of the complex of dhydrodipicolinate synthase from2 acinetobacter baumannii with lysine at 2.6a resolution
77	c2yxgD	Alignment	not modelled	5.4	42	PDB header: lyase Chain: D: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase (dapa)
78	c2hmcA	Alignment	not modelled	5.4	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: the crystal structure of dihydrodipicolinate synthase dapa from2 agrobacterium tumefaciens
79	c3bi8A	Alignment	not modelled	5.4	21	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of dihydrodipicolinate synthase from clostridium2 botulinum
80	c3na8A	Alignment	not modelled	5.3	32	PDB header: lyase Chain: A: PDB Molecule: putative dihydrodipicolinate synthetase; PDBTitle: crystal structure of a putative dihydrodipicolinate

					synthetase from2 pseudomonas aeruginosa
81	d1x51a1	Alignment	not modelled	5.3	17 Fold: Nudix Superfamily: Nudix Family: MutY C-terminal domain-like
82	c2kxhB	Alignment	not modelled	5.2	29 PDB header: protein binding Chain: B: PDB Molecule: peptide of far upstream element-binding protein 1; PDBTitle: solution structure of the first two rrm domains of fir in the complex2 with fbp nbox peptide
83	d1tvga	Alignment	not modelled	5.0	25 Fold: Galactose-binding domain-like Superfamily: Galactose-binding domain-like Family: APC10-like