



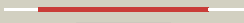












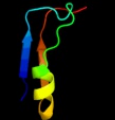






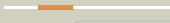


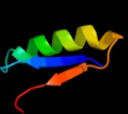







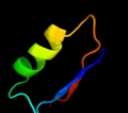
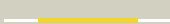



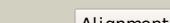
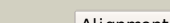

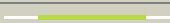


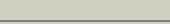



#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2v4oB_	 Alignment		100.0	92	PDB header: hydrolase Chain: B: PDB Molecule: multifunctional protein sur e; PDBTitle: crystal structure of salmonella typhimurium sure at 2.752 angstrom resolution in monoclinic form
2	c2phjA_	 Alignment		100.0	43	PDB header: hydrolase Chain: A: PDB Molecule: 5'-nucleotidase sure; PDBTitle: crystal structure of sure protein from aquifex aeolicus
3	d1j9ja_	 Alignment		100.0	39	Fold: SurE-like Superfamily: SurE-like Family: SurE-like
4	d1l5xa_	 Alignment		100.0	33	Fold: SurE-like Superfamily: SurE-like Family: SurE-like
5	c2e6gl_	 Alignment		100.0	38	PDB header: hydrolase Chain: I: PDB Molecule: 5'-nucleotidase sure; PDBTitle: crystal structure of the stationary phase survival protein sure from2 thermus thermophilus hb8 in complex with phosphate
6	c1yxob_	 Alignment		91.6	12	PDB header: oxidoreductase Chain: B: PDB Molecule: 4-hydroxythreonine-4-phosphate dehydrogenase 1; PDBTitle: crystal structure of pyridoxal phosphate biosynthetic protein pdx2 pa0593
7	c3hbjA_	 Alignment		89.0	15	PDB header: transferase Chain: A: PDB Molecule: flavonoid 3-o-glucosyltransferase; PDBTitle: structure of ugt78g1 complexed with udp
8	c2p6pB_	 Alignment		87.3	29	PDB header: transferase Chain: B: PDB Molecule: glycosyl transferase; PDBTitle: x-ray crystal structure of c-c bond-forming dtdp-d-olivose-transferase2 urdgt2
9	c2gejA_	 Alignment		86.5	38	PDB header: transferase Chain: A: PDB Molecule: phosphatidylinositol mannosyltransferase (pima); PDBTitle: crystal structure of phosphatidylinositol mannosyltransferase (pima)2 from mycobacterium smegmatis in complex with gdp-man
10	c2qzsA_	 Alignment		85.1	28	PDB header: transferase Chain: A: PDB Molecule: glycogen synthase; PDBTitle: crystal structure of wild-type e.coli gs in complex with adp2 and glucose(wtgsb)
11	d2bisa1	 Alignment		81.5	29	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1

12	d1rrva_	 Alignment		81.1	31	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Gtf glycosyltransferase
13	c3c4vB_	 Alignment		80.0	28	PDB header: transferase Chain: B: PDB Molecule: predicted glycosyltransferases; PDBTitle: structure of the retaining glycosyltransferase msha:the2 first step in mycothiol biosynthesis. organism:3 corynebacterium glutamicum : complex with udp and 1l-ins-1-4 p.
14	c3ej6D_	 Alignment		79.9	26	PDB header: oxidoreductase Chain: D: PDB Molecule: catalase-3; PDBTitle: neurospora crassa catalase-3 crystal structure
15	c3ot5D_	 Alignment		78.9	10	PDB header: isomerase Chain: D: PDB Molecule: udp-n-acetylglucosamine 2-epimerase; PDBTitle: 2.2 angstrom resolution crystal structure of putative udp-n-2 acetylglucosamine 2-epimerase from listeria monocytogenes
16	d1rzua_	 Alignment		77.3	22	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
17	d1ka9h_	 Alignment		74.0	29	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: Class I glutamine amidotransferases (GAT)
18	d1pn3a_	 Alignment		72.4	39	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Gtf glycosyltransferase
19	d1o6ca_	 Alignment		72.3	13	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
20	c2hqoA_	 Alignment		71.4	16	PDB header: signaling protein Chain: A: PDB Molecule: putative transcriptional regulator; PDBTitle: structure of a atypical orphan response regulator protein revealed a2 new phosphorylation-independent regulatory mechanism
21	c3l3ba_	 Alignment	not modelled	69.7	16	PDB header: biosynthetic protein Chain: A: PDB Molecule: es1 family protein; PDBTitle: crystal structure of isoprenoid biosynthesis protein with2 amidotransferase-like domain from ehrlichia chaffeensis at 1.90a3 resolution
22	c2iv3B_	 Alignment	not modelled	69.0	18	PDB header: transferase Chain: B: PDB Molecule: glycosyltransferase; PDBTitle: crystal structure of avigt4, a glycosyltransferase involved2 in avilamycin a biosynthesis
23	d1iira_	 Alignment	not modelled	67.3	39	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Gtf glycosyltransferase
24	c3r0jA_	 Alignment	not modelled	66.5	22	PDB header: dna binding protein Chain: A: PDB Molecule: possible two component system response transcriptional PDBTitle: structure of phop from mycobacterium tuberculosis
25	c2jjmH_	 Alignment	not modelled	63.3	15	PDB header: transferase Chain: H: PDB Molecule: glycosyl transferase, group 1 family protein; PDBTitle: crystal structure of a family gt4 glycosyltransferase from2 bacillus anthracis orf ba1558.
26	c1vkzA_	 Alignment	not modelled	62.4	11	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylamine--glycine ligase; PDBTitle: crystal structure of phosphoribosylamine--glycine ligase (tm1250) from2 thermotoga maritima at 2.30 a resolution
27	d1kgsa2	 Alignment	not modelled	62.1	22	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
28	d1ny5a1	 Alignment	not modelled	61.2	16	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related

29	d1s3la_	Alignment	not modelled	57.5	16	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: YfcE-like
30	c1s3mA_	Alignment	not modelled	57.5	16	PDB header: phosphodiesterase Chain: A: PDB Molecule: hypothetical protein mj0936; PDBTitle: structural and functional characterization of a novel2 archaeal phosphodiesterase
31	c3uk7B_	Alignment	not modelled	55.1	19	PDB header: transferase Chain: B: PDB Molecule: class i glutamine amidotransferase-like domain-containing PDBTitle: crystal structure of arabidopsis thaliana dj-1d
32	c1sy7B_	Alignment	not modelled	50.4	24	PDB header: oxidoreductase Chain: B: PDB Molecule: catalase 1; PDBTitle: crystal structure of the catalase-1 from neurospora crassa, native2 structure at 1.75a resolution.
33	c2iufA_	Alignment	not modelled	49.6	30	PDB header: oxidoreductase Chain: A: PDB Molecule: catalase; PDBTitle: the structures of penicillium vitale catalase: resting2 state, oxidised state (compound i) and complex with3 aminotriazole
34	d1dz3a_	Alignment	not modelled	49.1	13	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
35	d1p80a1	Alignment	not modelled	46.0	15	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: Catalase, C-terminal domain
36	d1a2oa1	Alignment	not modelled	45.5	17	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
37	d1f6da_	Alignment	not modelled	44.7	15	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
38	c3h1gA_	Alignment	not modelled	44.2	16	PDB header: signaling protein Chain: A: PDB Molecule: chemotaxis protein chey homolog; PDBTitle: crystal structure of chey mutant t84a of helicobacter pylori
39	c2iyaB_	Alignment	not modelled	43.5	16	PDB header: transferase Chain: B: PDB Molecule: oleandomycin glycosyltransferase; PDBTitle: the crystal structure of macrolide glycosyltransferases: a2 blueprint for antibiotic engineering
40	c2r60A_	Alignment	not modelled	43.4	24	PDB header: transferase Chain: A: PDB Molecule: glycosyl transferase, group 1; PDBTitle: structure of apo sucrose phosphate synthase (sps) of2 halothermothrix oronii
41	c3c97A_	Alignment	not modelled	42.4	20	PDB header: signaling protein, transferase Chain: A: PDB Molecule: signal transduction histidine kinase; PDBTitle: crystal structure of the response regulator receiver domain2 of a signal transduction histidine kinase from aspergillus3 oryzae
42	c3oy2A_	Alignment	not modelled	41.9	13	PDB header: viral protein,transferase Chain: A: PDB Molecule: glycosyltransferase b736l; PDBTitle: crystal structure of a putative glycosyltransferase from paramecium2 bursaria chlorella virus ny2a
43	d1wd5a_	Alignment	not modelled	41.5	26	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
44	c1p81A_	Alignment	not modelled	37.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: catalase hp1i; PDBTitle: crystal structure of the d181e variant of catalase hp1i2 from e. coli
45	c3d0qB_	Alignment	not modelled	35.7	26	PDB header: transferase Chain: B: PDB Molecule: protein calg3; PDBTitle: crystal structure of calg3 from micromonospora echinospora determined2 in space group i222
46	d1ptma_	Alignment	not modelled	35.5	11	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: PdxA-like
47	c3lp8A_	Alignment	not modelled	35.5	19	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylamine-glycine ligase; PDBTitle: crystal structure of phosphoribosylamine-glycine ligase from2 ehrlichia chaffeensis
48	c3othB_	Alignment	not modelled	34.5	25	PDB header: transferase/antibiotic Chain: B: PDB Molecule: calg1; PDBTitle: crystal structure of calg1, calicheamicin glycosyltransferase, tdp2 and calicheamicin alpha3i bound form
49	c2qv0A_	Alignment	not modelled	34.0	17	PDB header: transcription Chain: A: PDB Molecule: protein mrke; PDBTitle: crystal structure of the response regulatory domain of2 protein mrke from klebsiella pneumoniae
50	d2acva1	Alignment	not modelled	33.7	14	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDPGT-like
51	d1vhqa_	Alignment	not modelled	32.7	22	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: DJ-1/Pfpl
52	c3f6cB_	Alignment	not modelled	32.4	9	PDB header: dna binding protein Chain: B: PDB Molecule: positive transcription regulator evga; PDBTitle: crystal structure of n-terminal domain of positive transcription2 regulator evga from escherichia coli
53	d1qo0d_	Alignment	not modelled	30.8	21	Fold: Flavodoxin-like Superfamily: CheY-like Family: Positive regulator of the amidase operon AmiR
54	c2fe9A_	Alignment	not modelled	29.3	27	PDB header: rna binding protein Chain: A: PDB Molecule: protein vts1; PDBTitle: solution structure of the vts1 sam domain in the presence2 of rna

55	c3ia7A_	Alignment	not modelled	29.2	26	PDB header: transferase Chain: A: PDB Molecule: calg4; PDBTitle: crystal structure of calg4, the calicheamicin glycosyltransferase
56	d1y0ya2	Alignment	not modelled	28.9	23	Fold: Phosphorylase/hydrolase-like Superfamily: Zn-dependent exopeptidases Family: Bacterial dinuclear zinc exopeptidases
57	d2r25b1	Alignment	not modelled	28.3	20	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
58	d1vi1a_	Alignment	not modelled	27.0	22	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: PlsX-like
59	d2a9va1	Alignment	not modelled	26.6	28	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: Class I glutamine amidotransferases (GAT)
60	dlsy7a1	Alignment	not modelled	26.5	24	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: Catalase, C-terminal domain
61	d2bli1a1	Alignment	not modelled	26.1	25	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Tyrosine-dependent oxidoreductases
62	c3n7tA_	Alignment	not modelled	25.1	19	PDB header: protein binding Chain: A: PDB Molecule: macrophage binding protein; PDBTitle: crystal structure of a macrophage binding protein from coccidioides2 immitis
63	c1kgsA_	Alignment	not modelled	24.9	22	PDB header: dna binding protein Chain: A: PDB Molecule: dna binding response regulator d; PDBTitle: crystal structure at 1.50 a of an omp/phob homolog from thermotoga2 maritima
64	c1ulzA_	Alignment	not modelled	23.9	14	PDB header: ligase Chain: A: PDB Molecule: pyruvate carboxylase n-terminal domain; PDBTitle: crystal structure of the biotin carboxylase subunit of pyruvate2 carboxylase
65	d1wl8a1	Alignment	not modelled	23.5	18	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: Class I glutamine amidotransferases (GAT)
66	c2eseA_	Alignment	not modelled	23.1	21	PDB header: protein/rna complex Chain: A: PDB Molecule: vts1p; PDBTitle: structure of the sam domain of vts1p in complex with rna
67	d1dbwa_	Alignment	not modelled	23.0	14	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
68	c3icpA_	Alignment	not modelled	22.9	38	PDB header: isomerase Chain: A: PDB Molecule: nad-dependent epimerase/dehydratase; PDBTitle: crystal structure of udp-galactose 4-epimerase
69	c3ihsB_	Alignment	not modelled	21.8	20	PDB header: transport protein Chain: B: PDB Molecule: phosphocarrier protein hpr; PDBTitle: crystal structure of a phosphocarrier protein hpr from2 bacillus anthracis str. ames
70	c2b6gA_	Alignment	not modelled	21.7	21	PDB header: rna binding protein Chain: A: PDB Molecule: vts1p; PDBTitle: rna recognition by the vts1 sam domain
71	c3gt7A_	Alignment	not modelled	21.2	24	PDB header: hydrolase Chain: A: PDB Molecule: sensor protein; PDBTitle: crystal structure of signal receiver domain of signal2 transduction histidine kinase from syntrophus3 aciditrophicus
72	c2xdqA_	Alignment	not modelled	20.6	18	PDB header: oxidoreductase Chain: A: PDB Molecule: light-independent protochlorophyllide reductase subunit n; PDBTitle: dark operative protochlorophyllide oxidoreductase (chlN-2 chlB)2 complex
73	c2gpwC_	Alignment	not modelled	20.0	17	PDB header: ligase Chain: C: PDB Molecule: biotin carboxylase; PDBTitle: crystal structure of the biotin carboxylase subunit, f363a2 mutant, of acetyl-coa carboxylase from escherichia coli.
74	c1ny5A_	Alignment	not modelled	19.9	27	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of sigm54 activator (aaa+ atpase) in the inactive2 state
75	d1ecfa1	Alignment	not modelled	19.6	27	Fold: PRTase-like Superfamily: PRTase-like Family: Phosphoribosyltransferases (PRTases)
76	c2h1fB_	Alignment	not modelled	19.5	12	PDB header: transferase Chain: B: PDB Molecule: lipopolysaccharide heptosyltransferase-1; PDBTitle: e. coli heptosyltransferase waac with adp
77	c2iyfA_	Alignment	not modelled	19.2	20	PDB header: transferase Chain: A: PDB Molecule: oleandomycin glycosyltransferase; PDBTitle: the crystal structure of macrolide glycosyltransferases: a2 blueprint for antibiotic engineering
78	d1w25a1	Alignment	not modelled	19.2	32	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
79	c2dzdB_	Alignment	not modelled	19.1	10	PDB header: ligase Chain: B: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of the biotin carboxylase domain of2 pyruvate carboxylase
80	c3m2pD_	Alignment	not modelled	19.1	14	PDB header: isomerase Chain: D: PDB Molecule: udp-n-acetylglucosamine 4-epimerase; PDBTitle: the crystal structure of udp-n-acetylglucosamine 4-epimerase2 from bacillus cereus
						Fold: 7-stranded beta/alpha barrel

81	d2cia1	Alignment	not modelled	19.0	16	Superfamily: Glycoside hydrolase/deacetylase Family: NodB-like polysaccharide deacetylase
82	c3hfwA	Alignment	not modelled	18.7	18	PDB header: hydrolase Chain: A: PDB Molecule: protein adp-ribosylarginine hydrolase; PDBTitle: crystal structure of human adp-ribosylhydrolase 1 (harh1)
83	d1o94c	Alignment	not modelled	18.5	22	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Adenine nucleotide alpha hydrolases-like Family: ETFP subunits
84	c3hdgE	Alignment	not modelled	18.3	20	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 wolinella3 succinogenes
85	c3le1B	Alignment	not modelled	18.1	16	PDB header: transferase Chain: B: PDB Molecule: phosphotransferase system, hpr-related proteins; PDBTitle: crystal structure of apohpr monomer from thermoanaerobacter2 tengcongensis
86	c2p5uC	Alignment	not modelled	17.9	28	PDB header: isomerase Chain: C: PDB Molecule: udp-glucose 4-epimerase; PDBTitle: crystal structure of thermus thermophilus hb8 udp-glucose 4-2 epimerase complex with nad
87	d1vkza2	Alignment	not modelled	17.9	13	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
88	c3ouzA	Alignment	not modelled	17.0	18	PDB header: ligase Chain: A: PDB Molecule: biotin carboxylase; PDBTitle: crystal structure of biotin carboxylase-adp complex from campylobacter2 jejuni
89	c3nooB	Alignment	not modelled	16.9	15	PDB header: lyase Chain: B: PDB Molecule: thij/pfpi family protein; PDBTitle: crystal structure of c101a isocyanide hydratase from pseudomonas2 fluorescens
90	c3iaaB	Alignment	not modelled	16.9	30	PDB header: transferase Chain: B: PDB Molecule: calg2; PDBTitle: crystal structure of calg2, calicheamicin glycosyltransferase, tdp2 bound form
91	d1dcfa	Alignment	not modelled	16.6	20	Fold: Flavodoxin-like Superfamily: CheY-like Family: Receiver domain of the ethylene receptor
92	d1n2sa	Alignment	not modelled	16.4	27	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Tyrosine-dependent oxidoreductases
93	c1ecjB	Alignment	not modelled	16.3	27	PDB header: transferase Chain: B: PDB Molecule: glutamine phosphoribosylpyrophosphate PDBTitle: escherichia coli glutamine phosphoribosylpyrophosphate2 (prpp) amidotransferase complexed with 2 amp per tetramer
94	c3eodA	Alignment	not modelled	16.2	26	PDB header: signaling protein Chain: A: PDB Molecule: protein hnr; PDBTitle: crystal structure of n-terminal domain of e. coli rssb
95	c3eulB	Alignment	not modelled	16.1	23	PDB header: transcription Chain: B: PDB Molecule: possible nitrate/nitrite response transcriptional PDBTitle: structure of the signal receiver domain of the putative2 response regulator narl from mycobacterium tuberculosis
96	d1f0ka	Alignment	not modelled	16.0	18	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Peptidoglycan biosynthesis glycosyltransferase MurG
97	c1qsoA	Alignment	not modelled	15.6	24	PDB header: ligase Chain: A: PDB Molecule: protein (glycinamide ribonucleotide synthetase); PDBTitle: glycinamide ribonucleotide synthetase (gar-syn) from e.2 coli.
98	c3d8tB	Alignment	not modelled	15.5	14	PDB header: lyase Chain: B: PDB Molecule: uroporphyrinogen-iii synthase; PDBTitle: thermus thermophilus uroporphyrinogen iii synthase
99	c3l4bG	Alignment	not modelled	15.4	21	PDB header: transport protein Chain: G: PDB Molecule: trka k+ channel protien tm1088b; PDBTitle: crystal structure of an octomeric two-subunit trka k+ channel ring2 gating assembly, tm1088a:tm1088b, from thermotoga maritima