






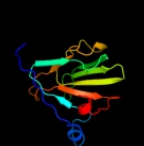







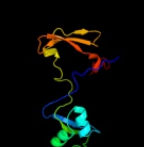








#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2gu1A_	 Alignment		100.0	31	PDB header: hydrolase Chain: A: PDB Molecule: zinc peptidase; PDBTitle: crystal structure of a zinc containing peptidase from2 vibrio cholerae
2	c2hsiB_	 Alignment		100.0	23	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative peptidase m23; PDBTitle: crystal structure of putative peptidase m23 from2 pseudomonas aeruginosa, new york structural genomics3 consortium
3	d1qwyA_	 Alignment		100.0	26	Fold: Barrel-sandwich hybrid Superfamily: Duplicated hybrid motif Family: Peptidoglycan hydrolase LytM
4	c3nyyA_	 Alignment		100.0	25	PDB header: hydrolase Chain: A: PDB Molecule: putative glycyl-glycine endopeptidase lytm; PDBTitle: crystal structure of a putative glycyl-glycine endopeptidase lytm2 (rumgna_02482) from ruminococcus gnavus atcc 29149 at 1.60 a3 resolution
5	c2b44A_	 Alignment		100.0	37	PDB header: hydrolase Chain: A: PDB Molecule: glycyl-glycine endopeptidase lytm; PDBTitle: truncated s. aureus lytm, p 32 2 1 crystal form
6	c3it5B_	 Alignment		99.9	22	PDB header: hydrolase Chain: B: PDB Molecule: protease lasa; PDBTitle: crystal structure of the lasa virulence factor from pseudomonas2 aeruginosa
7	c3csqC_	 Alignment		99.9	19	PDB header: hydrolase Chain: C: PDB Molecule: morphogenesis protein 1; PDBTitle: crystal and cryoem structural studies of a cell wall2 degrading enzyme in the bacteriophage phi29 tail
8	c2l9yA_	 Alignment		98.8	23	PDB header: sugar binding protein Chain: A: PDB Molecule: cvnh-lysm lectin; PDBTitle: solution structure of the mocvnh-lysm module from the rice blast2 fungus magnaporthe oryzae protein (mgg_03307)
9	c2djpA_	 Alignment		98.6	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein sb145; PDBTitle: the solution structure of the lysm domain of human2 hypothetical protein sb145
10	d1e0ga_	 Alignment		98.3	29	Fold: LysM domain Superfamily: LysM domain Family: LysM domain
11	d1y7ma2	 Alignment		98.2	31	Fold: LysM domain Superfamily: LysM domain Family: LysM domain

12	c1y7mB_	Alignment		97.4	23	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein bsu14040; PDBTitle: crystal structure of the b. subtilis ykud protein at 2 a2 resolution
13	d2f3ga_	Alignment		96.2	20	Fold: Barrel-sandwich hybrid Superfamily: Duplicated hybrid motif Family: Glucose permease-like
14	d1glaf_	Alignment		95.9	20	Fold: Barrel-sandwich hybrid Superfamily: Duplicated hybrid motif Family: Glucose permease-like
15	d1gpaa_	Alignment		95.7	29	Fold: Barrel-sandwich hybrid Superfamily: Duplicated hybrid motif Family: Glucose permease-like
16	d2gpaa_	Alignment		95.7	24	Fold: Barrel-sandwich hybrid Superfamily: Duplicated hybrid motif Family: Glucose permease-like
17	d1e2wa2	Alignment		95.6	25	Fold: Barrel-sandwich hybrid Superfamily: Rudiment single hybrid motif Family: Cytochrome f, small domain
18	d1ci3m2	Alignment		95.1	19	Fold: Barrel-sandwich hybrid Superfamily: Rudiment single hybrid motif Family: Cytochrome f, small domain
19	c2aukA_	Alignment		94.1	15	PDB header: transferase Chain: A: PDB Molecule: dna-directed rna polymerase beta' chain; PDBTitle: structure of e. coli rna polymerase beta' g/g' insert
20	c1e2vB_	Alignment		93.8	25	PDB header: electron transport proteins Chain: B: PDB Molecule: cytochrome f; PDBTitle: n153q mutant of cytochrome f from chlamydomonas reinhardtii
21	c1ctmA_	Alignment	not modelled	93.4	19	PDB header: electron transport(cytochrome) Chain: A: PDB Molecule: cytochrome f; PDBTitle: crystal structure of chloroplast cytochrome f reveals a2 novel cytochrome fold and unexpected heme ligation
22	c1q90A_	Alignment	not modelled	93.3	25	PDB header: photosynthesis Chain: A: PDB Molecule: apocytochrome f; PDBTitle: structure of the cytochrome b6f (plastoquinone : plastocyanin2 oxidoreductase) from chlamydomonas reinhardtii
23	d1dcza_	Alignment	not modelled	92.7	23	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
24	c2ejgD_	Alignment	not modelled	91.8	31	PDB header: ligase Chain: D: PDB Molecule: 149aa long hypothetical methylmalonyl-coa decarboxylase PDBTitle: crystal structure of the biotin protein ligase (mutation r48a) and2 biotin carboxyl carrier protein complex from pyrococcus horikoshii3 ot3
25	d1bdoa_	Alignment	not modelled	91.3	18	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
26	c2kccA_	Alignment	not modelled	90.6	18	PDB header: ligase Chain: A: PDB Molecule: acetyl-coa carboxylase 2; PDBTitle: solution structure of biotinoyl domain from human acetyl-2 coa carboxylase 2
27	c3n6rK_	Alignment	not modelled	90.4	28	PDB header: ligase Chain: K: PDB Molecule: propionyl-coa carboxylase, alpha subunit; PDBTitle: crystal structure of the holoenzyme of propionyl-coa carboxylase (pcc)
28	c2h8nA_	Alignment	not modelled	90.4	18	PDB header: biosynthetic protein Chain: A: PDB Molecule: biotin/lipoyl attachment protein;

28	c2009A	Alignment	not modelled	90.4	18	PDBTitle: solution structure of bacillus subtilis blap biotinylated-2 form (energy minimized mean structure)
29	d1hca2	Alignment	not modelled	90.3	19	Fold: Barrel-sandwich hybrid Superfamily: Rudiment single hybrid motif Family: Cytochrome f, small domain
30	c1t5eB	Alignment	not modelled	90.1	30	PDB header: transport protein Chain: B: PDB Molecule: multi drug resistance protein mexa; PDBTitle: the structure of mexa
31	c2jxmB	Alignment	not modelled	89.9	23	PDB header: electron transport Chain: B: PDB Molecule: cytochrome f; PDBTitle: ensemble of twenty structures of the prochlorothrix2 hollandica plastocyanin- cytochrome f complex
32	d1o78a	Alignment	not modelled	89.7	35	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
33	c3l1nnB	Alignment	not modelled	89.7	26	PDB header: metal transport Chain: B: PDB Molecule: membrane fusion protein (mfp) heavy metal cation efflux PDBTitle: crystal structure of zneb from cupriavidus metallidurans
34	c2aujD	Alignment	not modelled	89.4	17	PDB header: transferase Chain: D: PDB Molecule: dna-directed rna polymerase beta' chain; PDBTitle: structure of thermus aquaticus rna polymerase beta'-subunit2 insert
35	c2f1mA	Alignment	not modelled	89.0	13	PDB header: transport protein Chain: A: PDB Molecule: acriflavine resistance protein a; PDBTitle: conformational flexibility in the multidrug efflux system protein acra
36	c1tu2B	Alignment	not modelled	88.8	26	PDB header: electron transport Chain: B: PDB Molecule: apocytochrome f; PDBTitle: the complex of nostoc cytochrome f and plastocyanin determin with2 paramagnetic nmr. based on the structures of cytochrome f and3 plastocyanin, 10 structures
37	c2k33A	Alignment	not modelled	88.7	26	PDB header: membrane protein, transport protein Chain: A: PDB Molecule: acra; PDBTitle: solution structure of an n-glycosylated protein using in2 vitro glycosylation
38	c3fppB	Alignment	not modelled	88.0	26	PDB header: membrane protein Chain: B: PDB Molecule: macrolide-specific efflux protein maca; PDBTitle: crystal structure of e.coli maca
39	d1vf7a	Alignment	not modelled	87.9	30	Fold: HlyD-like secretion proteins Superfamily: HlyD-like secretion proteins Family: HlyD-like secretion proteins
40	c2ejmA	Alignment	not modelled	87.5	30	PDB header: ligase Chain: A: PDB Molecule: methylcrotonoyl-coa carboxylase subunit alpha; PDBTitle: solution structure of ruh-072, an apo-biotinyl domain form2 human acetyl coenzyme a carboxylase
41	c2dn8A	Alignment	not modelled	87.3	30	PDB header: ligase Chain: A: PDB Molecule: acetyl-coa carboxylase 2; PDBTitle: solution structure of rsgi ruh-053, an apo-biotin carboxy2 carrier protein from human transcarboxylase
42	d1brwa3	Alignment	not modelled	87.0	24	Fold: alpha/beta-Hammerhead Superfamily: Pyrimidine nucleoside phosphorylase C-terminal domain Family: Pyrimidine nucleoside phosphorylase C-terminal domain
43	d1laba	Alignment	not modelled	86.9	13	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
44	d1tu2b2	Alignment	not modelled	85.9	21	Fold: Barrel-sandwich hybrid Superfamily: Rudiment single hybrid motif Family: Cytochrome f, small domain
45	c2q8iB	Alignment	not modelled	85.7	13	PDB header: transferase Chain: B: PDB Molecule: dihydrolipoyllysine-residue acetyltransferase component of PDBTitle: pyruvate dehydrogenase kinase isoform 3 in complex with antitumor drug2 radicicol
46	c2l5tA	Alignment	not modelled	84.5	17	PDB header: transferase Chain: A: PDB Molecule: lipamide acyltransferase; PDBTitle: solution nmr structure of e2 lipoyl domain from thermoplasma2 acidophilum
47	d1y8ob1	Alignment	not modelled	84.3	13	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
48	d1qjoa	Alignment	not modelled	83.7	26	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
49	d2pnrc1	Alignment	not modelled	82.1	13	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
50	c2dncA	Alignment	not modelled	81.0	22	PDB header: transferase Chain: A: PDB Molecule: pyruvate dehydrogenase protein x component; PDBTitle: solution structure of rsgi ruh-054, a lipoyl domain from2 human 2-oxoacid dehydrogenase
51	d1ghja	Alignment	not modelled	80.8	16	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
52	c2dneA	Alignment	not modelled	80.0	17	PDB header: transferase Chain: A: PDB Molecule: dihydrolipoyllysine-residue acetyltransferase PDBTitle: solution structure of rsgi ruh-058, a lipoyl domain of2 human 2-oxoacid dehydrogenase
53	c3h9iB	Alignment	not modelled	78.2	17	PDB header: transport protein Chain: B: PDB Molecule: cation efflux system protein cusb; PDBTitle: crystal structure of the membrane fusion protein cusb

						from escherichia2 coli
54	c2j0fC_	Alignment	not modelled	77.9	25	PDB header: transferase Chain: C: PDB Molecule: thymidine phosphorylase; PDBTitle: structural basis for non-competitive product inhibition in2 human thymidine phosphorylase: implication for drug design
55	c1otpA_	Alignment	not modelled	77.7	24	PDB header: phosphorylase Chain: A: PDB Molecule: thymidine phosphorylase; PDBTitle: structural and theoretical studies suggest domain movement produces an2 active conformation of thymidine phosphorylase
56	d1uoua3	Alignment	not modelled	77.2	26	Fold: alpha/beta-Hammerhead Superfamily: Pyrimidine nucleoside phosphorylase C-terminal domain Family: Pyrimidine nucleoside phosphorylase C-terminal domain
57	d1k8ma_	Alignment	not modelled	76.7	9	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
58	c2dsjA_	Alignment	not modelled	76.6	27	PDB header: transferase Chain: A: PDB Molecule: pyrimidine-nucleoside (thymidine) phosphorylase; PDBTitle: crystal structure of project id tt0128 from thermus thermophilus hb8
59	c2jkuA_	Alignment	not modelled	76.1	26	PDB header: ligase Chain: A: PDB Molecule: propionyl-coa carboxylase alpha chain, PDBTitle: crystal structure of the n-terminal region of the biotin2 acceptor domain of human propionyl-coa carboxylase
60	c3fmcC_	Alignment	not modelled	75.7	20	PDB header: hydrolase Chain: C: PDB Molecule: putative succinylglutamate desuccinylase / aspartoacylase; PDBTitle: crystal structure of a putative succinylglutamate desuccinylase /2 aspartoacylase family protein (sama_0604) from shewanella amazonensis3 sb2b at 1.80 a resolution
61	c2e75C_	Alignment	not modelled	75.6	21	PDB header: photosynthesis Chain: C: PDB Molecule: apocytochrome f; PDBTitle: crystal structure of the cytochrome b6f complex with 2-nonyl-4-2 hydroxyquinoline n-oxide (nqno) from m.laminosus
62	c2qj8B_	Alignment	not modelled	72.6	17	PDB header: hydrolase Chain: B: PDB Molecule: mlr6093 protein; PDBTitle: crystal structure of an aspartoacylase family protein (mlr6093) from2 mesorhizobium loti maff303099 at 2.00 a resolution
63	c2qf7A_	Alignment	not modelled	71.9	19	PDB header: ligase Chain: A: PDB Molecule: pyruvate carboxylase protein; PDBTitle: crystal structure of a complete multifunctional pyruvate carboxylase2 from rhizobium etli
64	d1pmra_	Alignment	not modelled	71.3	19	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
65	c3cdxB_	Alignment	not modelled	70.7	21	PDB header: hydrolase Chain: B: PDB Molecule: succinylglutamatedesuccinylase/aspartoacylase; PDBTitle: crystal structure of2 succinylglutamatedesuccinylase/aspartoacylase from3 rhodobacter sphaeroides
66	d1gjxa_	Alignment	not modelled	70.7	17	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
67	c3na6A_	Alignment	not modelled	70.1	28	PDB header: hydrolase Chain: A: PDB Molecule: succinylglutamate desuccinylase/aspartoacylase; PDBTitle: crystal structure of a succinylglutamate desuccinylase (tm1040_2694)2 from silicibacter sp. tm1040 at 2.00 a resolution
68	d2tpa3	Alignment	not modelled	70.1	21	Fold: alpha/beta-Hammerhead Superfamily: Pyrimidine nucleoside phosphorylase C-terminal domain Family: Pyrimidine nucleoside phosphorylase C-terminal domain
69	d1mzya2	Alignment	not modelled	65.8	11	Fold: Cupredoxin-like Superfamily: Cupredoxins Family: Multidomain cupredoxins
70	d1iyua_	Alignment	not modelled	65.8	14	Fold: Barrel-sandwich hybrid Superfamily: Single hybrid motif Family: Biotinyl/lipoyl-carrier proteins and domains
71	c3ozxA_	Alignment	not modelled	65.4	14	PDB header: hydrolase, translation Chain: A: PDB Molecule: rnase l inhibitor; PDBTitle: crystal structure of abce1 of sulfolobus solfataricus (-fes domain)
72	c2xhaB_	Alignment	not modelled	62.1	20	PDB header: transcription Chain: B: PDB Molecule: transcription antitermination protein nusg; PDBTitle: crystal structure of domain 2 of thermotoga maritima n-utilization2 substance g (nusg)
73	c2dafA_	Alignment		54.6	30	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: flj35834 protein; PDBTitle: solution structure of the novel identified ubiquitin-like2 domain in the human hypothetical protein flj35834
74	c3h5qA_	Alignment	not modelled	54.0	21	PDB header: transferase Chain: A: PDB Molecule: pyrimidine-nucleoside phosphorylase; PDBTitle: crystal structure of a putative pyrimidine-nucleoside phosphorylase2 from staphylococcus aureus
75	c1brwB_	Alignment	not modelled	53.7	26	PDB header: transferase Chain: B: PDB Molecule: protein (pyrimidine nucleoside phosphorylase); PDBTitle: the crystal structure of pyrimidine nucleoside2 phosphorylase in a closed conformation Fold: alpha/beta-Hammerhead

76	d1o4ua2	Alignment	not modelled	49.5	16	Supersfamily: Nicotinate/Quinolinate PRTase N-terminal domain-like Family: NadC N-terminal domain-like
77	d1qapa2	Alignment	not modelled	45.4	26	Fold: alpha/beta-Hammerhead Supersfamily: Nicotinate/Quinolinate PRTase N-terminal domain-like Family: NadC N-terminal domain-like
78	d1k8ga2	Alignment	not modelled	41.4	19	Fold: OB-fold Supersfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
79	d1qpoa2	Alignment	not modelled	39.5	26	Fold: alpha/beta-Hammerhead Supersfamily: Nicotinate/Quinolinate PRTase N-terminal domain-like Family: NadC N-terminal domain-like
80	d1jb7a2	Alignment	not modelled	39.3	19	Fold: OB-fold Supersfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
81	c2xhcA	Alignment	not modelled	38.7	20	PDB header: transcription Chain: A: PDB Molecule: transcription antitermination protein nusg; PDBTitle: crystal structure of thermotoga maritima n-utilization substance g2 (nusg)
82	c3camB	Alignment	not modelled	36.3	26	PDB header: gene regulation Chain: B: PDB Molecule: cold-shock domain family protein; PDBTitle: crystal structure of the cold shock domain protein from neisseria2 meningitidis
83	c3a5dB	Alignment	not modelled	34.5	21	PDB header: hydrolase Chain: B: PDB Molecule: v-type atp synthase alpha chain; PDBTitle: inter-subunit interaction and quaternary rearrangement2 defined by the central stalk of prokaryotic v1-atpase
84	d1nds2	Alignment	not modelled	33.0	17	Fold: Cupredoxin-like Supersfamily: Cupredoxins Family: Multidomain cupredoxins
85	d2ns0a1	Alignment	not modelled	29.9	13	Fold: DNA/RNA-binding 3-helical bundle Supersfamily: "Winged helix" DNA-binding domain Family: RHA1 ro06458-like
86	d2zjrt1	Alignment	not modelled	28.3	28	Fold: Barrel-sandwich hybrid Supersfamily: Ribosomal L27 protein-like Family: Ribosomal L27 protein
87	d1v8qa	Alignment	not modelled	28.1	19	Fold: Barrel-sandwich hybrid Supersfamily: Ribosomal L27 protein-like Family: Ribosomal L27 protein
88	c3fin0	Alignment	not modelled	25.6	20	PDB header: ribosome Chain: 0: PDB Molecule: 50s ribosomal protein l27; PDBTitle: t. thermophilus 70s ribosome in complex with mrna, trnas2 and ef-tu.gdp.kirromycin ternary complex, fitted to a 6.43 a cryo-em map. this file contains the 50s subunit.
89	c2boyC	Alignment	not modelled	25.3	24	PDB header: oxidoreductase Chain: C: PDB Molecule: 3-chlorocatechol 1,2-dioxygenase; PDBTitle: crystal structure of 3-chlorocatechol 1,2-dioxygenase from2 rhodococcus opacus 1cp
90	d1vf5c2	Alignment	not modelled	24.3	44	Fold: Barrel-sandwich hybrid Supersfamily: Rudiment single hybrid motif Family: Cytochrome f, small domain
91	d1snra2	Alignment	not modelled	24.2	16	Fold: Cupredoxin-like Supersfamily: Cupredoxins Family: Multidomain cupredoxins
92	c2elmA	Alignment	not modelled	24.0	27	PDB header: transcription Chain: A: PDB Molecule: zinc finger protein 406; PDBTitle: solution structure of the 10th c2h2 zinc finger of human2 zinc finger protein 406
93	d3pcca	Alignment	not modelled	23.5	9	Fold: Prealbumin-like Supersfamily: Aromatic compound dioxygenase Family: Aromatic compound dioxygenase
94	c2kw8A	Alignment	not modelled	23.5	3	PDB header: protein binding Chain: A: PDB Molecule: lpxtg-site transpeptidase family protein; PDBTitle: solution structure of bacillus anthracis sortase a (srta)2 transpeptidase
95	d2awna2	Alignment	not modelled	23.1	12	Fold: P-loop containing nucleoside triphosphate hydrolases Supersfamily: P-loop containing nucleoside triphosphate hydrolases Family: ABC transporter ATPase domain-like
96	d2bura1	Alignment	not modelled	22.7	18	Fold: Prealbumin-like Supersfamily: Aromatic compound dioxygenase Family: Aromatic compound dioxygenase
97	d2es2a1	Alignment	not modelled	22.5	28	Fold: OB-fold Supersfamily: Nucleic acid-binding proteins Family: Cold shock DNA-binding domain-like
98	c2yz2B	Alignment	not modelled	22.2	18	PDB header: hydrolase Chain: B: PDB Molecule: putative abc transporter atp-binding protein tm_0222; PDBTitle: crystal structure of the abc transporter in the cobalt transport2 system
99	d2burb1	Alignment	not modelled	21.6	18	Fold: Prealbumin-like Supersfamily: Aromatic compound dioxygenase Family: Aromatic compound dioxygenase