



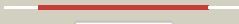

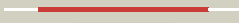

















#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1dpea_	 Alignment		100.0	100	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
2	c3tpaA_	 Alignment		100.0	51	PDB header: heme binding protein Chain: A: PDB Molecule: heme-binding protein a; PDBTitle: structure of hbpa2 from haemophilus parasuis
3	c3m8uA_	 Alignment		100.0	52	PDB header: transport protein Chain: A: PDB Molecule: heme-binding protein a; PDBTitle: crystal structure of glutathione-binding protein a (gbpa) from2 haemophilus parasuis sh0165 in complex with glutathione disulfide3 (gssg)
4	d1jeta_	 Alignment		100.0	23	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
5	d1zlqa1	 Alignment		100.0	26	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
6	c3o9pA_	 Alignment		100.0	21	PDB header: peptide binding protein/peptide Chain: A: PDB Molecule: periplasmic murein peptide-binding protein; PDBTitle: the structure of the escherichia coli murein tripeptide binding2 protein mppa
7	c2wokA_	 Alignment		100.0	22	PDB header: peptide binding protein/peptide Chain: A: PDB Molecule: clavulanic acid biosynthesis oligopeptide PDBTitle: clavulanic acid biosynthesis oligopeptide2 binding protein 2 complexed with bradykinin
8	d1uqwa_	 Alignment		100.0	26	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
9	d1xoca1	 Alignment		100.0	26	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
10	c3t66A_	 Alignment		100.0	22	PDB header: transport protein Chain: A: PDB Molecule: nickel abc transporter (nickel-binding protein); PDBTitle: crystal structure of nickel abc transporter from bacillus halodurans
11	c1ztyA_	 Alignment		100.0	21	PDB header: sugar binding protein, signaling protein Chain: A: PDB Molecule: chitin oligosaccharide binding protein; PDBTitle: crystal structure of the chitin oligosaccharide binding2 protein

12	c2o7jA_	Alignment		100.0	20	PDB header: sugar binding protein Chain: A: PDB Molecule: oligopeptide abc transporter, periplasmic PDBTitle: the x-ray crystal structure of a thermophilic cellobiose2 binding protein bound with cellopentaose
13	c3rqtA_	Alignment		100.0	19	PDB header: unknown function Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: 1.5 angstrom crystal structure of the complex of ligand binding2 component of abc-type import system from staphylococcus aureus with3 nickel and two histidines
14	d1vr5a1	Alignment		100.0	22	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
15	c2grvC_	Alignment		100.0	18	PDB header: biosynthetic protein Chain: C: PDB Molecule: lpqw; PDBTitle: crystal structure of lpqw
16	c3ftoA_	Alignment		100.0	19	PDB header: peptide binding protein Chain: A: PDB Molecule: oligopeptide-binding protein oppa; PDBTitle: crystal structure of oppa in a open conformation
17	c3ry3B_	Alignment		100.0	21	PDB header: transport protein Chain: B: PDB Molecule: putative solute-binding protein; PDBTitle: putative solute-binding protein from yersinia pestis.
18	c2d5wA_	Alignment		100.0	21	PDB header: peptide binding protein Chain: A: PDB Molecule: peptide abc transporter, peptide-binding protein; PDBTitle: the crystal structure of oligopeptide binding protein from thermus2 thermophilus hb8 complexed with pentapeptide
19	c3lvuB_	Alignment		100.0	15	PDB header: transport protein Chain: B: PDB Molecule: abc transporter, periplasmic substrate-binding protein; PDBTitle: crystal structure of abc transporter, periplasmic substrate-binding2 protein spo2066 from silicibacter pomeroyi
20	c3pamB_	Alignment		100.0	14	PDB header: transport protein Chain: B: PDB Molecule: transmembrane protein; PDBTitle: crystal structure of a domain of transmembrane protein of abc-type2 oligopeptide transport system from bartonella henselae str. houston-1
21	c3o6pA_	Alignment	not modelled	100.0	21	PDB header: protein binding Chain: A: PDB Molecule: peptide abc transporter, peptide-binding protein; PDBTitle: crystal structure of peptide abc transporter, peptide-binding protein
22	c3tmgA_	Alignment	not modelled	96.2	11	PDB header: transport protein Chain: A: PDB Molecule: glycine betaine, l-proline abc transporter, PDBTitle: crystal structure of glycine betaine, l-proline abc transporter,2 glycine/betaine/l-proline-binding protein (prox) from borrelia3 burgdorferi
23	c3l6gA_	Alignment	not modelled	95.8	7	PDB header: glycine betaine-binding protein Chain: A: PDB Molecule: betaine abc transporter permease and substrate binding PDBTitle: crystal structure of lactococcal opuac in its open conformation
24	c3chgB_	Alignment	not modelled	95.2	8	PDB header: ligand binding protein Chain: B: PDB Molecule: glycine betaine-binding protein; PDBTitle: the compatible solute-binding protein opuac from bacillus2 subtilis in complex with dmsa
25	c2rejA_	Alignment	not modelled	94.6	5	PDB header: choline-binding protein Chain: A: PDB Molecule: putative glycine betaine abc transporter protein; PDBTitle: abc-transporter choline binding protein in unliganded semi-2 closed conformation
26	c3r6uA_	Alignment	not modelled	92.9	10	PDB header: transport protein Chain: A: PDB Molecule: choline-binding protein; PDBTitle: crystal structure of choline binding protein opubc from bacillus2 subtilis
27	d1r9la_	Alignment	not modelled	92.6	9	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
PDB header: peptide binding protein						

28	c3nohA	Alignment	not modelled	91.5	20	Chain: A: PDB Molecule: putative peptide binding protein; PDBTitle: crystal structure of a putative peptide binding protein (rumgna_00914)2 from ruminococcus gnavus atcc 29149 at 1.60 a resolution
29	d1sw5a	Alignment	not modelled	88.6	12	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
30	c3pppA	Alignment	not modelled	86.2	10	PDB header: transport protein Chain: A: PDB Molecule: glycine betaine/carnitine/choline-binding protein; PDBTitle: structures of the substrate-binding protein provide insights into the2 multiple compatible solutes binding specificities of bacillus3 subtilis abc transporter opuc
31	d1e5da1	Alignment	not modelled	85.0	11	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Flavodoxin-related
32	d1ycga1	Alignment	not modelled	83.0	15	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Flavodoxin-related
33	c3f6sl	Alignment	not modelled	70.0	12	PDB header: electron transport Chain: I: PDB Molecule: flavodoxin; PDBTitle: desulfovibrio desulfuricans (atcc 29577) oxidized flavodoxin2 alternate conformers
34	c3hlyA	Alignment	not modelled	63.9	11	PDB header: flavoprotein Chain: A: PDB Molecule: flavodoxin-like domain; PDBTitle: crystal structure of the flavodoxin-like domain from2 synechococcus sp q5mzp6_synp6 protein. northeast structural3 genomics consortium target snr135d.
35	c3kzgB	Alignment	not modelled	62.9	11	PDB header: transport protein Chain: B: PDB Molecule: arginine 3rd transport system periplasmic binding PDBTitle: crystal structure of an arginine 3rd transport system2 periplasmic binding protein from legionella pneumophila
36	d1f4pa	Alignment	not modelled	62.6	17	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Flavodoxin-related
37	c3ir1F	Alignment	not modelled	60.1	16	PDB header: protein binding Chain: F: PDB Molecule: outer membrane lipoprotein gna1946; PDBTitle: crystal structure of lipoprotein gna1946 from neisseria2 meningitidis
38	c3kn3C	Alignment	not modelled	52.2	17	PDB header: transcription Chain: C: PDB Molecule: putative periplasmic protein; PDBTitle: crystal structure of lysr substrate binding domain (25-263) of2 putative periplasmic protein from wolinnella succinogenes
39	c2o1mB	Alignment	not modelled	49.6	12	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: probable amino-acid abc transporter PDBTitle: crystal structure of the probable amino-acid abc2 transporter extracellular-binding protein ytnk from3 bacillus subtilis. northeast structural genomics4 consortium target sr572
40	c3gxaA	Alignment	not modelled	47.9	16	PDB header: protein binding Chain: A: PDB Molecule: outer membrane lipoprotein gna1946; PDBTitle: crystal structure of gna1946
41	c2ek8A	Alignment	not modelled	46.8	10	PDB header: hydrolase Chain: A: PDB Molecule: aminopeptidase; PDBTitle: aminopeptidase from aneurinibacillus sp. strain am-1
42	d1vmea1	Alignment	not modelled	45.4	7	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Flavodoxin-related
43	c2rc9A	Alignment	not modelled	44.0	5	PDB header: membrane protein Chain: A: PDB Molecule: glutamate [nmda] receptor subunit 3a; PDBTitle: crystal structure of the nr3a ligand binding core complex with acpc at2 1.96 angstrom resolution
44	c3o66A	Alignment	not modelled	39.6	5	PDB header: transport protein Chain: A: PDB Molecule: glycine betaine/carnitine/choline abc transporter; PDBTitle: crystal structure of glycine betaine/carnitine/choline abc transporter
45	c3d7nA	Alignment	not modelled	38.2	13	PDB header: electron transport Chain: A: PDB Molecule: flavodoxin, wrba-like protein; PDBTitle: the crystal structure of the flavodoxin, wrba-like protein from2 agrobacterium tumefaciens
46	d1ykga1	Alignment	not modelled	37.2	16	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Cytochrome p450 reductase N-terminal domain-like
47	c3un6A	Alignment	not modelled	34.4	5	PDB header: unknown function Chain: A: PDB Molecule: hypothetical protein saouhsc_00137; PDBTitle: 2.0 angstrom crystal structure of ligand binding component of abc-type2 import system from staphylococcus aureus with zinc bound
48	d1tlla2	Alignment	not modelled	33.7	12	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Cytochrome p450 reductase N-terminal domain-like
49	c3r39A	Alignment	not modelled	33.0	16	PDB header: transport protein Chain: A: PDB Molecule: putative periplasmic binding protein; PDBTitle: crystal structure of periplasmic d-alanine abc transporter from2 salmonella enterica
50	d1s8na	Alignment	not modelled	32.8	10	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
51	c2q9uB	Alignment	not modelled	32.3	14	PDB header: oxidoreductase Chain: B: PDB Molecule: a-type flavoprotein; PDBTitle: crystal structure of the flavodiiron protein from giardia2 intestinalis
52	d2vv5a2	Alignment	not modelled	32.3	18	Fold: Ferredoxin-like Superfamily: Mechanosensitive channel protein MscS (YggB), C-terminal domain

						Family: Mechanosensitive channel protein MscS (YggB), C-terminal domain
53	c2y7iB_		not modelled	31.2	7	PDB header: arginine-binding protein Chain: B: PDB Molecule: stm4351; PDBTitle: structural basis for high arginine specificity in salmonella2 typhimurium periplasmic binding protein stm4351.
54	c3lr1A_		not modelled	30.1	13	PDB header: transport protein Chain: A: PDB Molecule: tungstate abc transporter, periplasmic tungstate- PDBTitle: the crystal structure of the tungstate abc transporter from2 geobacter sulfurreducens
55	d2a5sa1		not modelled	30.0	7	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
56	c3muqB_		not modelled	29.2	11	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized conserved protein; PDBTitle: the crystal structure of a conserved functionally unknown protein from2 vibrio parahaemolyticus rimd 2210633
57	c3k2dA_		not modelled	28.9	14	PDB header: immune system Chain: A: PDB Molecule: abc-type metal ion transport system, periplasmic component; PDBTitle: crystal structure of immunogenic lipoprotein a from vibrio vulnificus
58	d1wdna_		not modelled	28.9	7	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
59	d1xfha1		not modelled	28.6	7	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
60	d2a9pa1		not modelled	28.1	11	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
61	c3k4uA_		not modelled	27.0	16	PDB header: transport protein Chain: A: PDB Molecule: binding component of abc transporter; PDBTitle: crystal structure of putative binding component of abc transporter2 from wolinnella succinogenes dsm 1740 complexed with lysine
62	d1xs5a_		not modelled	27.0	14	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
63	d5nula_		not modelled	26.7	19	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Flavodoxin-related
64	c2q2aD_		not modelled	26.6	13	PDB header: transport protein Chain: D: PDB Molecule: artj; PDBTitle: crystal structures of the arginine-, lysine-, histidine-2 binding protein artj from the thermophilic bacterium3 geobacillus stearothermophilus
65	d2fz5a1		not modelled	26.6	14	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Flavodoxin-related
66	d1mvoa_		not modelled	26.6	16	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
67	c2j48A_		not modelled	25.6	12	PDB header: transferase Chain: A: PDB Molecule: two-component sensor kinase; PDBTitle: nmr structure of the pseudo-receiver domain of the cika2 protein.
68	c2ylnA_		not modelled	25.4	23	PDB header: transport protein Chain: A: PDB Molecule: putative abc transporter, periplasmic binding protein, PDBTitle: crystal structure of the l-cystine solute receptor of2 neisseria gonorrhoeae in the closed conformation
69	c3hn0A_		not modelled	25.1	18	PDB header: transport protein Chain: A: PDB Molecule: nitrate transport protein; PDBTitle: crystal structure of an abc transporter (bdi_1369) from2 parabacteroides distasonis at 1.75 a resolution
70	d1mb3a_		not modelled	25.0	12	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
71	d1zgza1		not modelled	24.0	9	Fold: Flavodoxin-like Superfamily: CheY-like Family: CheY-related
72	c3g41A_		not modelled	23.9	13	PDB header: transport protein Chain: A: PDB Molecule: amino acid abc transporter, periplasmic amino acid-binding PDBTitle: the structure of cpn0482, the arginine binding protein from the2 periplasm of chlamydia pneumoniae
73	c1ychD_		not modelled	23.1	15	PDB header: oxidoreductase Chain: D: PDB Molecule: nitric oxide reductase; PDBTitle: x-ray crystal structures of moorella thermoacetica fpra.2 novel diiron site structure and mechanistic insights into3 a scavenging nitric oxide reductase
74	c3n5lA_		not modelled	23.0	12	PDB header: transport protein Chain: A: PDB Molecule: binding protein component of abc phosphonate transporter; PDBTitle: crystal structure of a binding protein component of abc phosphonate2 transporter (pa3383) from pseudomonas aeruginosa at 1.97 a resolution
75	c3i6vA_		not modelled	23.0	16	PDB header: transport protein Chain: A: PDB Molecule: periplasmic his/glu/gln/arg/opine family-binding protein; PDBTitle: crystal structure of a periplasmic his/glu/gln/arg/opine family-2 binding protein from silicibacter pomeroyi in complex with lysine
						Fold: Flavodoxin-like

76	dlys7a2	Alignment	not modelled	22.7	11	Superfamily: CheY-like Family: CheY-related
77	c3fniA	Alignment	not modelled	22.6	17	PDB header: oxidoreductase Chain: A: PDB Molecule: putative diflavin flavoprotein a 3; PDBTitle: crystal structure of a diflavin flavoprotein a3 (all3895) from nostoc2 sp., northeast structural genomics consortium target nsr431a
78	d1kjna	Alignment	not modelled	22.6	13	Fold: Hypothetical protein MTH777 (MT0777) Superfamily: Hypothetical protein MTH777 (MT0777) Family: Hypothetical protein MTH777 (MT0777)
79	d1hsla	Alignment	not modelled	22.2	9	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
80	d2arka1	Alignment	not modelled	21.9	9	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: WrbA-like
81	d1bvyf	Alignment	not modelled	21.9	11	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: Flavodoxin-related
82	c1bvyF	Alignment	not modelled	21.9	11	PDB header: oxidoreductase Chain: F: PDB Molecule: protein (cytochrome p450 bm-3); PDBTitle: complex of the heme and fnm-binding domains of the2 cytochrome p450(bm-3)
83	c2f06B	Alignment	not modelled	21.8	24	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of protein bt0572 from bacteroides thetaiotaomicron
84	c1twyG	Alignment	not modelled	21.4	6	PDB header: structural genomics, unknown function Chain: G: PDB Molecule: abc transporter, periplasmic substrate-binding protein; PDBTitle: crystal structure of an abc-type phosphate transport receptor from2 vibrio cholerae
85	d1twya	Alignment	not modelled	21.4	6	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
86	c2yjpB	Alignment	not modelled	20.8	10	PDB header: transport protein Chain: B: PDB Molecule: putative abc transporter, periplasmic binding protein, PDBTitle: crystal structure of the solute receptors for l-cysteine of2 neisseria gonorrhoeae
87	c3ix1B	Alignment	not modelled	20.6	6	PDB header: biosynthetic protein Chain: B: PDB Molecule: n-formyl-4-amino-5-aminomethyl-2-methylpyrimidine binding PDBTitle: periplasmic n-formyl-4-amino-5-aminomethyl-2-methylpyrimidine binding2 protein from bacillus halodurans
88	c3ix1A	Alignment	not modelled	20.6	6	PDB header: biosynthetic protein Chain: A: PDB Molecule: n-formyl-4-amino-5-aminomethyl-2-methylpyrimidine binding PDBTitle: periplasmic n-formyl-4-amino-5-aminomethyl-2-methylpyrimidine binding2 protein from bacillus halodurans
89	c3nbmA	Alignment	not modelled	20.4	12	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.
90	c3t6kB	Alignment	not modelled	19.9	11	PDB header: signaling protein Chain: B: PDB Molecule: response regulator receiver; PDBTitle: crystal structure of a hypothetical response regulator (caur_3799)2 from chloroflexus aurantiacus j-10-fl at 1.86 a resolution
91	c3kbrA	Alignment	not modelled	19.9	5	PDB header: lyase Chain: A: PDB Molecule: cyclohexadienyl dehydratase; PDBTitle: the crystal structure of cyclohexadienyl dehydratase precursor from2 pseudomonas aeruginosa pa01
92	d1p99a	Alignment	not modelled	19.5	14	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
93	c1p99A	Alignment	not modelled	19.5	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein pg110; PDBTitle: 1.7a crystal structure of protein pg110 from staphylococcus2 aureus
94	d1lsta	Alignment	not modelled	18.3	8	Fold: Periplasmic binding protein-like II Superfamily: Periplasmic binding protein-like II Family: Phosphate binding protein-like
95	c3delC	Alignment	not modelled	18.2	9	PDB header: protein binding, transport protein Chain: C: PDB Molecule: arginine binding protein; PDBTitle: the structure of ct381, the arginine binding protein from the2 periplasm chlamydia trachomatis
96	c2hnbA	Alignment	not modelled	17.8	11	PDB header: electron transport Chain: A: PDB Molecule: protein mioc; PDBTitle: solution structure of a bacterial holo-flavodoxin
97	d1g7da	Alignment	not modelled	17.7	19	Fold: ERP29 C domain-like Superfamily: ERP29 C domain-like Family: ERP29 C domain-like
98	d2a5la1	Alignment	not modelled	17.6	13	Fold: Flavodoxin-like Superfamily: Flavoproteins Family: WrbA-like
99	d2p0la1	Alignment	not modelled	17.6	12	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: LplA-like