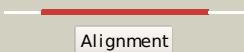
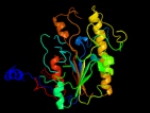
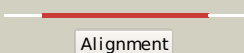

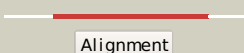

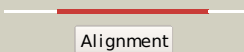

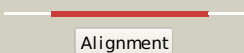

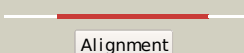

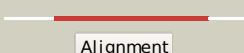

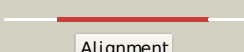

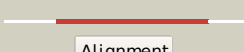

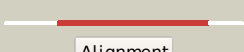

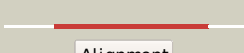



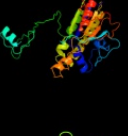



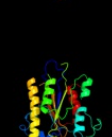

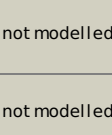




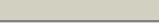
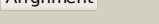
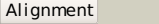
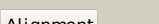



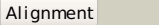

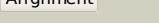

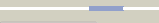

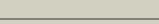
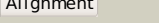
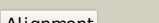




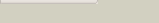
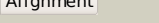


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2w8dB_	 Alignment		100.0	12	PDB header: transferase Chain: B: PDB Molecule: processed glycerol phosphate lipoteichoic acid synthase 2; PDBTitle: distinct and essential morphogenic functions for wall- and2 lipo-teichoic acids in bacillus subtilis
2	c2w5tA_	 Alignment		100.0	12	PDB header: transferase Chain: A: PDB Molecule: processed glycerol phosphate lipoteichoic acid PDBTitle: structure-based mechanism of lipoteichoic acid synthesis by2 staphylococcus aureus ltas.
3	c2qzuA_	 Alignment		100.0	13	PDB header: hydrolase Chain: A: PDB Molecule: putative sulfatase yidj; PDBTitle: crystal structure of the putative sulfatase yidj from bacteroides2 fragilis. northeast structural genomics consortium target bfr123
4	c3ed4A_	 Alignment		100.0	18	PDB header: transferase Chain: A: PDB Molecule: arylsulfatase; PDBTitle: crystal structure of putative arylsulfatase from escherichia coli
5	c3lxqB_	 Alignment		100.0	15	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein vp1736; PDBTitle: the crystal structure of a protein in the alkaline2 phosphatase superfamily from vibrio parahaemolyticus to3 1.95a
6	d1auka_	 Alignment		100.0	15	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Arylsulfatase
7	d1fsua_	 Alignment		100.0	14	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Arylsulfatase
8	c3b5qB_	 Alignment		100.0	12	PDB header: hydrolase Chain: B: PDB Molecule: putative sulfatase yidj; PDBTitle: crystal structure of a putative sulfatase (np_810509.1)2 from bacteroides thetaiotaomicron vpi-5482 at 2.40 a3 resolution
9	d1hdha_	 Alignment		100.0	19	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Arylsulfatase
10	c2vqrA_	 Alignment		100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: putative sulfatase; PDBTitle: crystal structure of a phosphonate monoester hydrolase2 from rhizobium leguminosarum: a new member of the3 alkaline phosphatase superfamily
11	d1p49a_	 Alignment		100.0	15	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Arylsulfatase

12	d1o98a2	Alignment		100.0	9	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: 2,3-Bisphosphoglycerate-independent phosphoglycerate mutase, catalytic domain
13	c2zktB	Alignment		100.0	16	PDB header: isomerase Chain: B: PDB Molecule: 2,3-bisphosphoglycerate-independent phosphoglycerate PDBTitle: structure of ph0037 protein from pyrococcus horikoshii
14	c3m8yC	Alignment		100.0	14	PDB header: isomerase Chain: C: PDB Molecule: phosphopentomutase; PDBTitle: phosphopentomutase from bacillus cereus after glucose-1,6-bisphosphate2 activation
15	d2i09a1	Alignment		100.0	14	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: DeoB catalytic domain-like
16	c3q3qA	Alignment		100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: alkaline phosphatase; PDBTitle: crystal structure of spap: an novel alkaline phosphatase from2 bacterium sphingomonas sp. strain bsar-1
17	c2qsoB	Alignment		100.0	14	PDB header: hydrolase Chain: B: PDB Molecule: phosphodiesterase-nucleotide pyrophosphatase; PDBTitle: structure of xac nucleotide2 pyrophosphatase/phosphodiesterase in complex with vanadate
18	c2i09A	Alignment		99.9	11	PDB header: isomerase Chain: A: PDB Molecule: phosphopentomutase; PDBTitle: crystal structure of putative phosphopentomutase from streptococcus2 mutans
19	c2xrgA	Alignment		99.9	15	PDB header: hydrolase Chain: A: PDB Molecule: ectonucleotide pyrophosphatase/phosphodiesterase family PDBTitle: crystal structure of autotaxin (enpp2) in complex with the2 ha155 boronic acid inhibitor
20	c2xr9A	Alignment		99.9	16	PDB header: hydrolase Chain: A: PDB Molecule: ectonucleotide pyrophosphatase/phosphodiesterase family PDBTitle: crystal structure of autotaxin (enpp2)
21	c3szzA	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: A: PDB Molecule: phosphonoacetate hydrolase; PDBTitle: crystal structure of phosphonoacetate hydrolase from sinorhizobium2 meliloti 1021 in complex with acetate
22	d1ei6a	Alignment	not modelled	99.9	16	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Phosphonoacetate hydrolase
23	c1o98A	Alignment	not modelled	99.7	13	PDB header: isomerase Chain: A: PDB Molecule: 2,3-bisphosphoglycerate-independent PDBTitle: 1.4a crystal structure of phosphoglycerate mutase from2 bacillus stearothermophilus complexed with3 2-phosphoglycerate
24	c3igzB	Alignment	not modelled	99.6	12	PDB header: isomerase Chain: B: PDB Molecule: cofactor-independent phosphoglycerate mutase; PDBTitle: crystal structures of leishmania mexicana phosphoglycerate2 mutase at low cobalt concentration
25	c2d1gB	Alignment	not modelled	99.6	17	PDB header: hydrolase Chain: B: PDB Molecule: acid phosphatase; PDBTitle: structure of francisella tularensis acid phosphatase a (acpa) bound to2 orthovanadate
26	c2iucB	Alignment	not modelled	99.4	16	PDB header: hydrolase Chain: B: PDB Molecule: alkaline phosphatase; PDBTitle: structure of alkaline phosphatase from the antarctic2 bacterium tab5
27	d1y6va1	Alignment	not modelled	99.3	12	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Alkaline phosphatase
28	c1ew2A	Alignment	not modelled	99.2	14	PDB header: hydrolase Chain: A: PDB Molecule: phosphatase; PDBTitle: crystal structure of a human phosphatase

29	dlzeda1	 Alignment	not modelled	99.2	14	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Alkaline phosphatase
30	c2w0yB_	 Alignment	not modelled	99.1	12	PDB header: hydrolase Chain: B: PDB Molecule: alkaline phosphatase; PDBTitle: h.salinarum alkaline phosphatase
31	d1k7ha_	 Alignment	not modelled	99.1	13	Fold: Alkaline phosphatase-like Superfamily: Alkaline phosphatase-like Family: Alkaline phosphatase
32	c2x98A_	 Alignment	not modelled	99.1	13	PDB header: hydrolase Chain: A: PDB Molecule: alkaline phosphatase; PDBTitle: h.salinarum alkaline phosphatase
33	c3a52A_	 Alignment	not modelled	99.0	14	PDB header: hydrolase Chain: A: PDB Molecule: cold-active alkaline phosphatase; PDBTitle: crystal structure of cold-active alkaline phosphatase from2 psychrophile shewanella sp.
34	c3e2dB_	 Alignment	not modelled	98.7	15	PDB header: hydrolase Chain: B: PDB Molecule: alkaline phosphatase; PDBTitle: the 1.4 a crystal structure of the large and cold-active2 vibrio sp. alkaline phosphatase
35	c3iddA_	 Alignment	not modelled	96.7	20	PDB header: isomerase Chain: A: PDB Molecule: 2,3-bisphosphoglycerate-independent PDBTitle: cofactor-independent phosphoglycerate mutase from2 thermoplasma acidophilum dsm 1728
36	d1b4ub_	 Alignment	not modelled	42.4	5	Fold: Phosphorylase/hydrolase-like Superfamily: LigB-like Family: LigB-like
37	c3bijC_	 Alignment	not modelled	38.2	18	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: uncharacterized protein gsu0716; PDBTitle: crystal structure of protein gsu0716 from geobacter2 sulfurreducens. northeast structural genomics target gsr13
38	d1j33a_	 Alignment	not modelled	28.7	13	Fold: Nicotinate mononucleotide:5,6-dimethylbenzimidazole phosphoribosyltransferase (CobT) Superfamily: Nicotinate mononucleotide:5,6-dimethylbenzimidazole phosphoribosyltransferase (CobT) Family: Nicotinate mononucleotide:5,6-dimethylbenzimidazole phosphoribosyltransferase (CobT)
39	d1l5oa_	 Alignment	not modelled	24.9	7	Fold: Nicotinate mononucleotide:5,6-dimethylbenzimidazole phosphoribosyltransferase (CobT) Superfamily: Nicotinate mononucleotide:5,6-dimethylbenzimidazole phosphoribosyltransferase (CobT) Family: Nicotinate mononucleotide:5,6-dimethylbenzimidazole phosphoribosyltransferase (CobT)
40	c3ib7A_	 Alignment	not modelled	22.6	23	PDB header: hydrolase Chain: A: PDB Molecule: icc protein; PDBTitle: crystal structure of full length rv0805
41	d1xo1a2	 Alignment	not modelled	22.6	12	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
42	d3c9fa2	 Alignment	not modelled	22.0	18	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: 5'-nucleotidase (syn. UDP-sugar hydrolase), N-terminal domain
43	c2xokG_	 Alignment	not modelled	21.3	11	PDB header: hydrolase Chain: G: PDB Molecule: atp synthase subunit gamma, mitochondrial; PDBTitle: refined structure of yeast f1c10 atpase complex to 3 a2 resolution
44	c2hy1A_	 Alignment	not modelled	20.6	31	PDB header: hydrolase Chain: A: PDB Molecule: rv0805; PDBTitle: crystal structure of rv0805
45	d2hy1a1	 Alignment	not modelled	20.6	31	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: GpdQ-like
46	c3e4cB_	 Alignment	not modelled	19.1	17	PDB header: hydrolase Chain: B: PDB Molecule: caspase-1; PDBTitle: procaspase-1 zymogen domain crystal strucutre
47	d1s1qa_	 Alignment	not modelled	19.0	12	Fold: UBC-like Superfamily: UBC-like Family: UEV domain
48	d1usha2	 Alignment	not modelled	16.9	11	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: 5'-nucleotidase (syn. UDP-sugar hydrolase), N-terminal domain
49	d1uzdc1	 Alignment	not modelled	14.7	9	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
50	d1yj5a1	 Alignment	not modelled	13.1	26	Fold: HAD-like Superfamily: HAD-like Family: phosphatase domain of polynucleotide kinase
51	d2p0va1	 Alignment	not modelled	12.2	11	Fold: alpha/alpha toroid Superfamily: Six-hairpin glycosidases Family: CPF0428-like
52	c2p0vA_	 Alignment	not modelled	12.2	11	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein bt3781; PDBTitle: crystal structure of bt3781 protein from bacteroides2 thetaiotaomicron, northeast structural genomics target3 btr58
53	d1ej7s_	 Alignment	not modelled	12.0	11	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
54	d2z1aa2	 Alignment	not modelled	11.9	8	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: 5'-nucleotidase (syn. UDP-sugar hydrolase), N-terminal

					domain
55	d1tfa2	Alignment	not modelled	11.8	15 Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
56	d2hrca1	Alignment	not modelled	11.0	7 Fold: Chelatase-like Superfamily: Chelatase Family: Ferrochelatase
57	c3uoaB	Alignment	not modelled	10.6	18 PDB header: hydrolase/hydrolase inhibitor Chain: B: PDB Molecule: mucosa-associated lymphoid tissue lymphoma translocation PDBTitle: crystal structure of the malt1 paracaspase (p21 form)
58	c2jcmA	Alignment	not modelled	9.1	14 PDB header: hydrolase Chain: A: PDB Molecule: cytosolic purine 5'-nucleotidase; PDBTitle: crystal structure of human cytosolic 5'-nucleotidase ii in2 complex with beryllium trifluoride
59	d8ruci	Alignment	not modelled	8.9	11 Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
60	c1oidA	Alignment	not modelled	8.9	10 PDB header: hydrolase Chain: A: PDB Molecule: protein usha; PDBTitle: 5'-nucleotidase (e. coli) with an engineered disulfide2 bridge (s228c, p513c)
61	c2dfjA	Alignment	not modelled	8.3	8 PDB header: hydrolase Chain: A: PDB Molecule: diadenosinetetraphosphatase; PDBTitle: crystal structure of the diadenosine tetraphosphate2 hydrolase from shigella flexneri 2a
62	d2jdig1	Alignment	not modelled	7.7	17 Fold: Pyruvate kinase C-terminal domain-like Superfamily: ATP synthase (F1-ATPase), gamma subunit Family: ATP synthase (F1-ATPase), gamma subunit
63	d1jb0i	Alignment	not modelled	7.2	23 Fold: Single transmembrane helix Superfamily: Subunit VIII of photosystem I reaction centre, PsaI Family: Subunit VIII of photosystem I reaction centre, PsaI
64	d2hk6a1	Alignment	not modelled	7.2	11 Fold: Chelatase-like Superfamily: Chelatase Family: Ferrochelatase
65	c3a0hk	Alignment	not modelled	7.2	38 PDB header: electron transport Chain: K: PDB Molecule: photosystem ii reaction center protein k; PDBTitle: crystal structure of i-substituted photosystem ii complex
66	d1yp2a2	Alignment	not modelled	7.1	3 Fold: Nucleotide-diphospho-sugar transferases Superfamily: Nucleotide-diphospho-sugar transferases Family: glucose-1-phosphate thymidyltransferase
67	d1cmwa2	Alignment	not modelled	6.4	13 Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
68	d2nxfal	Alignment	not modelled	6.1	14 Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: ADPRibase-Mn-like
69	c3c9fB	Alignment	not modelled	6.0	18 PDB header: hydrolase Chain: B: PDB Molecule: 5'-nucleotidase; PDBTitle: crystal structure of 5'-nucleotidase from candida albicans sc5314
70	d1fs0g	Alignment	not modelled	5.8	20 Fold: Pyruvate kinase C-terminal domain-like Superfamily: ATP synthase (F1-ATPase), gamma subunit Family: ATP synthase (F1-ATPase), gamma subunit
71	c3a0bK	Alignment	not modelled	5.7	38 PDB header: electron transport Chain: K: PDB Molecule: photosystem ii reaction center protein k; PDBTitle: crystal structure of br-substituted photosystem ii complex
72	c3a0bk	Alignment	not modelled	5.7	38 PDB header: electron transport Chain: K: PDB Molecule: photosystem ii reaction center protein k; PDBTitle: crystal structure of br-substituted photosystem ii complex
73	c2w6jG	Alignment	not modelled	5.7	17 PDB header: hydrolase Chain: G: PDB Molecule: atp synthase subunit gamma, mitochondrial; PDBTitle: low resolution structures of bovine mitochondrial f1-atpase2 during controlled dehydration: hydration state 5.
74	c1oy8A	Alignment	not modelled	5.7	10 PDB header: membrane protein Chain: A: PDB Molecule: acriflavine resistance protein b; PDBTitle: structural basis of multiple drug binding capacity of the acrb2 multidrug efflux pump
75	c2hbzA	Alignment	not modelled	5.6	16 PDB header: hydrolase/hydrolase inhibitor Chain: A: PDB Molecule: caspase-1; PDBTitle: crystal structure of human caspase-1 (arg286->ala, glu390->ala) in2 complex with 3-[2-(2-benzoyloxycarbonylamino-3-methyl-butylamino)-3 propionylamino]-4-oxo-pentanoic acid (z-vad-fmk)
76	c3e20C	Alignment	not modelled	5.6	12 PDB header: translation Chain: C: PDB Molecule: eukaryotic peptide chain release factor subunit 1; PDBTitle: crystal structure of s.pombe erf1/erf3 complex
77	d1a9xa3	Alignment	not modelled	5.5	17 Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
78	c3oaaO	Alignment	not modelled	5.2	12 PDB header: hydrolase/transport protein Chain: O: PDB Molecule: atp synthase gamma chain; PDBTitle: structure of the e.coli f1-atp synthase inhibited by subunit epsilon
79	d1szpb1	Alignment	not modelled	5.2	17 Fold: SAM domain-like Superfamily: Rad51 N-terminal domain-like Family: DNA repair protein Rad51, N-terminal domain
80	c3zvmA	Alignment	not modelled	5.1	26 PDB header: hydrolase/transferase/dna Chain: A: PDB Molecule: bifunctional polynucleotide phosphatase/kinase; PDBTitle: the structural basis for substrate recognition by

				mammalian2 polynucleotide kinase 3' phosphatase	
81	d1dt9a3	<div>Alignment</div>	not modelled	5.1	13
				Fold: N-terminal domain of eukaryotic peptide chain release factor subunit 1, ERF1 Superfamily: N-terminal domain of eukaryotic peptide chain release factor subunit 1, ERF1 Family: N-terminal domain of eukaryotic peptide chain release factor subunit 1, ERF1	