








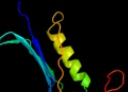













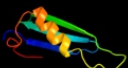

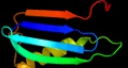


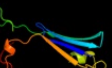
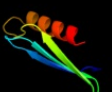



#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3nuwC_	 Alignment		100.0	80	PDB header: transferase Chain: C: PDB Molecule: 2-oxo-3-deoxygalactonate kinase; PDBTitle: crystal structure of 2-oxo-3-deoxygalactonate kinase from klebsiella2 pneumoniae
2	c3t69A_	 Alignment		100.0	34	PDB header: transferase Chain: A: PDB Molecule: putative 2-dehydro-3-deoxygalactonokinase; PDBTitle: crystal structure of a putative 2-dehydro-3-deoxygalactonokinase2 protein from sinorhizobium meliloti
3	c3gg4B_	 Alignment		96.1	12	PDB header: transferase Chain: B: PDB Molecule: glycerol kinase; PDBTitle: the crystal structure of glycerol kinase from yersinia2 pseudotuberculosis
4	c3i8bA_	 Alignment		95.9	7	PDB header: transferase Chain: A: PDB Molecule: xylulose kinase; PDBTitle: the crystal structure of xylulose kinase from2 bifidobacterium adolescentis
5	c3hz6A_	 Alignment		95.8	14	PDB header: transferase Chain: A: PDB Molecule: xylulokinase; PDBTitle: crystal structure of xylulokinase from chromobacterium violaceum
6	c2zf5O_	 Alignment		95.6	15	PDB header: transferase Chain: O: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of highly thermostable glycerol kinase from a2 hyperthermophilic archaeon
7	c3gbtA_	 Alignment		95.3	15	PDB header: transferase Chain: A: PDB Molecule: gluconate kinase; PDBTitle: crystal structure of gluconate kinase from lactobacillus acidophilus
8	d2ch5a2	 Alignment		95.2	14	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: BadF/BadG/BcrA/BcrD-like
9	c3ezwD_	 Alignment		94.6	18	PDB header: transferase Chain: D: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of a hyperactive escherichia coli glycerol kinase2 mutant gly230 --> asp obtained using microfluidic crystallization3 devices
10	c2w40C_	 Alignment		94.6	14	PDB header: transferase Chain: C: PDB Molecule: glycerol kinase, putative; PDBTitle: crystal structure of plasmodium falciparum glycerol kinase2 with bound glycerol
11	d2p3ra1	 Alignment		94.6	16	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Glycerol kinase

12	c3g25B_	Alignment		94.3	25	PDB header: transferase Chain: B: PDB Molecule: glycerol kinase; PDBTitle: 1.9 angstrom crystal structure of glycerol kinase (glpk) from2 staphylococcus aureus in complex with glycerol.
13	c3flcX_	Alignment		94.1	22	PDB header: transferase Chain: X: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of the his-tagged h232r mutant of glycerol kinase2 from enterococcus casseliflavus with glycerol
14	c1glbG_	Alignment		94.0	17	PDB header: phosphotransferase Chain: G: PDB Molecule: glycerol kinase; PDBTitle: structure of the regulatory complex of escherichia coli iiglc with2 glycerol kinase
15	c2d4wA_	Alignment		93.4	17	PDB header: transferase Chain: A: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of glycerol kinase from cellulomonas sp.2 nt3060
16	c2nlxA_	Alignment		93.0	15	PDB header: transferase Chain: A: PDB Molecule: xylulose kinase; PDBTitle: crystal structure of the apo e. coli xylulose kinase
17	c2dpnB_	Alignment		92.0	23	PDB header: transferase Chain: B: PDB Molecule: glycerol kinase; PDBTitle: crystal structure of the glycerol kinase from thermus2 thermophilus hb8
18	c3ifrB_	Alignment		91.1	18	PDB header: transferase Chain: B: PDB Molecule: carbohydrate kinase, fggy; PDBTitle: the crystal structure of xylulose kinase from rhodospirillum rubrum
19	dlzc6a1	Alignment		90.8	15	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: BadF/BadG/BcrA/BcrD-like
20	dlhuxa_	Alignment		90.1	16	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: BadF/BadG/BcrA/BcrD-like
21	c3h6eB_	Alignment	not modelled	89.8	23	PDB header: transferase Chain: B: PDB Molecule: carbohydrate kinase, fggy; PDBTitle: the crystal structure of a carbohydrate kinase from novosphingobium2 aromaticivorans
22	dlr59o1	Alignment	not modelled	89.1	24	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Glycerol kinase
23	clzc6A_	Alignment	not modelled	89.0	17	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: probable n-acetylglucosamine kinase; PDBTitle: crystal structure of putative n-acetylglucosamine kinase from2 chromobacterium violaceum. northeast structural genomics target3 cvr23.
24	clxupO_	Alignment	not modelled	88.7	22	PDB header: transferase Chain: O: PDB Molecule: glycerol kinase; PDBTitle: enterococcus casseliflavus glycerol kinase complexed with glycerol
25	c3bf1C_	Alignment	not modelled	88.5	13	PDB header: transferase Chain: C: PDB Molecule: type iii pantothenate kinase; PDBTitle: type iii pantothenate kinase from thermotoga maritima2 complexed with pantothenate and adp
26	c2cgkB_	Alignment	not modelled	87.3	13	PDB header: transferase Chain: B: PDB Molecule: l-rhamnulose kinase; PDBTitle: crystal structure of l-rhamnulose kinase from escherichia2 coli in an open uncomplexed conformation.
27	c3jvpA_	Alignment	not modelled	86.5	26	PDB header: transferase Chain: A: PDB Molecule: ribulokinase; PDBTitle: crystal structure of ribulokinase from bacillus halodurans
28	clzxoB_	Alignment	not modelled	80.5	14	PDB header: unknown function Chain: B: PDB Molecule: conserved hypothetical protein q8a1p1; PDBTitle: x-ray crystal structure of protein q8a1p1 from bacteroides2 thetaiotaomicron. northeast structural genomics

					consortium3 target btr25.
29	d1q18a1	Alignment	not modelled	78.7	22 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Glucokinase
30	d1bdga1	Alignment	not modelled	78.6	15 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Hexokinase
31	d1bg3a3	Alignment	not modelled	78.3	17 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Hexokinase
32	c2v7yA_	Alignment	not modelled	75.3	33 PDB header: chaperone Chain: A: PDB Molecule: chaperone protein dnak; PDBTitle: crystal structure of the molecular chaperone dnak from2 geobacillus kaustophilus hta426 in post-atp hydrolysis3 state
33	c3hm8D_	Alignment	not modelled	74.6	17 PDB header: transferase Chain: D: PDB Molecule: hexokinase-3; PDBTitle: crystal structure of the c-terminal hexokinase domain of human hk3
34	d2ap1a2	Alignment	not modelled	73.1	9 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: ROK
35	d1ig8a1	Alignment	not modelled	69.7	31 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Hexokinase
36	c2qm1D_	Alignment	not modelled	69.5	19 PDB header: transferase Chain: D: PDB Molecule: glucokinase; PDBTitle: crystal structure of glucokinase from enterococcus faecalis
37	c1zbsA_	Alignment	not modelled	68.6	12 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein pg1100; PDBTitle: crystal structure of the putative n-acetylglucosamine kinase (pg1100)2 from porphyromonas gingivalis, northeast structural genomics target3 pgr18
38	d1czan3	Alignment	not modelled	67.9	17 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Hexokinase
39	d2e8aa1	Alignment	not modelled	67.8	29 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Actin/HSP70
40	c1bdgA_	Alignment	not modelled	66.8	15 PDB header: hexokinase Chain: A: PDB Molecule: hexokinase; PDBTitle: hexokinase from schistosoma mansoni complexed with glucose
41	d1jcea1	Alignment	not modelled	64.2	29 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Actin/HSP70
42	d1bg3a1	Alignment	not modelled	62.5	17 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Hexokinase
43	d3bexa1	Alignment	not modelled	61.6	17 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: CoaX-like
44	c2v7zA_	Alignment	not modelled	59.0	21 PDB header: chaperone Chain: A: PDB Molecule: heat shock cognate 71 kda protein; PDBTitle: crystal structure of the 70-kda heat shock cognate protein2 from rattus norvegicus in post-atp hydrolysis state
45	c3iucC_	Alignment	not modelled	59.0	17 PDB header: chaperone Chain: C: PDB Molecule: heat shock 70kda protein 5 (glucose-regulated PDBTitle: crystal structure of the human 70kda heat shock protein 52 (bip/grp78) atpase domain in complex with adp
46	c1ig8A_	Alignment	not modelled	58.1	31 PDB header: transferase Chain: A: PDB Molecule: hexokinase pii; PDBTitle: crystal structure of yeast hexokinase pii with the correct2 amino acid sequence
47	d1v4sa1	Alignment	not modelled	57.1	17 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Hexokinase
48	d1czan1	Alignment	not modelled	56.5	13 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Hexokinase
49	c3h1qB_	Alignment	not modelled	55.1	9 PDB header: structural protein Chain: B: PDB Molecule: ethanolamine utilization protein eutj; PDBTitle: crystal structure of ethanolamine utilization protein eutj from2 carboxydotherrmus hydrogenofomans
50	c2ychA_	Alignment	not modelled	54.8	22 PDB header: cell cycle Chain: A: PDB Molecule: competence protein pilm; PDBTitle: pilm-piln type iv pilus biogenesis complex
51	d1bupa1	Alignment	not modelled	54.5	30 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Actin/HSP70
52	c3d2fC_	Alignment	not modelled	51.6	15 PDB header: chaperone Chain: C: PDB Molecule: heat shock protein homolog sse1; PDBTitle: crystal structure of a complex of sse1p and hsp70
53	c2khoA_	Alignment	not modelled	51.4	35 PDB header: chaperone Chain: A: PDB Molecule: heat shock protein 70; PDBTitle: nmr-rdc / xray structure of e. coli hsp70 (dnak) chaperone2 (1-605) complexed with adp and substrate
54	c1dkgD_	Alignment	not modelled	49.9	32 PDB header: complex (hsp24/hsp70) Chain: D: PDB Molecule: molecular chaperone dnak; PDBTitle: crystal structure of the nucleotide exchange factor grpe2 bound to the atpase domain of the molecular chaperone dnak

55	dlsz2a1	Alignment	not modelled	49.0	21	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Glucokinase
56	c2aa4B	Alignment	not modelled	48.4	23	PDB header: transferase Chain: B: PDB Molecule: putative n-acetylmannosamine kinase; PDBTitle: crystal structure of escherichia coli putative n-2 acetylmannosamine kinase, new york structural genomics3 consortium
57	d1dkgd1	Alignment	not modelled	47.3	32	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Actin/HSP70
58	c3qjba	Alignment	not modelled	45.9	22	PDB header: biosynthetic protein Chain: A: PDB Molecule: cytc3; PDBTitle: cytc3 with fe(ii) and alpha-ketoglutarate
59	c1hpmA	Alignment	not modelled	43.9	23	PDB header: hydrolase (acting on acid anhydrides) Chain: A: PDB Molecule: 44k atpase fragment (n-terminal) of 7o kd heat- PDBTitle: how potassium affects the activity of the molecular2 chaperone hsc70. ii. potassium binds specifically in the3 atpase active site
60	c3htvA	Alignment	not modelled	42.6	12	PDB header: transferase Chain: A: PDB Molecule: d-allose kinase; PDBTitle: crystal structure of d-allose kinase (np_418508.1) from escherichia2 coli k12 at 1.95 a resolution
61	c1xc3A	Alignment	not modelled	40.4	8	PDB header: transferase Chain: A: PDB Molecule: putative fructokinase; PDBTitle: structure of a putative fructokinase from bacillus subtilis
62	c1v4sA	Alignment	not modelled	40.3	17	PDB header: transferase Chain: A: PDB Molecule: glucokinase isoform 2; PDBTitle: crystal structure of human glucokinase
63	c1jcgA	Alignment	not modelled	39.7	27	PDB header: structural protein Chain: A: PDB Molecule: rod shape-determining protein mreB; PDBTitle: mreB from thermotoga maritima, amppnp
64	d1vhxa	Alignment	not modelled	39.5	16	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: Putative Holliday junction resolvase RuvX
65	c1qhaA	Alignment	not modelled	37.5	17	PDB header: transferase Chain: A: PDB Molecule: protein (hexokinase); PDBTitle: human hexokinase type i complexed with atp analogue amp-pnp
66	d1z6ra2	Alignment	not modelled	37.0	5	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: ROK
67	d2ews1	Alignment	not modelled	36.6	16	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Fumble-like
68	c1zcjA	Alignment	not modelled	36.4	15	PDB header: oxidoreductase Chain: A: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: crystal structure of 3-hydroxyacyl-coa dehydrogenase
69	c2ap1A	Alignment	not modelled	35.5	12	PDB header: transferase Chain: A: PDB Molecule: putative regulator protein; PDBTitle: crystal structure of the putative regulatory protein
70	c3mcpA	Alignment	not modelled	35.2	15	PDB header: transferase Chain: A: PDB Molecule: glucokinase; PDBTitle: crystal structure of glucokinase (bdi_1628) from parabacteroides2 distasonis atcc 8503 at 3.00 a resolution
71	c3r8eA	Alignment	not modelled	34.1	15	PDB header: transferase Chain: A: PDB Molecule: hypothetical sugar kinase; PDBTitle: crystal structure of a hypothetical sugar kinase (chu_1875) from2 cytophaga hutchinsonii atcc 33406 at 1.65 a resolution
72	d1q1ra2	Alignment	not modelled	33.6	9	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
73	c2gupA	Alignment	not modelled	32.3	14	PDB header: transferase Chain: A: PDB Molecule: rok family protein; PDBTitle: structural genomics, the crystal structure of a rok family protein2 from streptococcus pneumoniae tigr4 in complex with sucrose
74	c3k6jA	Alignment	not modelled	32.2	8	PDB header: oxidoreductase Chain: A: PDB Molecule: protein f01g10.3, confirmed by transcript evidence; PDBTitle: crystal structure of the dehydrogenase part of multifunctional enzyme 12 from c.elegans
75	c1e4gT	Alignment	not modelled	32.1	26	PDB header: bacterial cell division Chain: T: PDB Molecule: cell division protein ftsa; PDBTitle: ftsa (atp-bound form) from thermotoga maritima
76	d2pv7a2	Alignment	not modelled	31.6	19	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
77	c3zqoK	Alignment	not modelled	30.6	29	PDB header: dna-binding protein Chain: K: PDB Molecule: terminase small subunit; PDBTitle: crystal structure of the small terminase oligomerization2 core domain from a spp1-like bacteriophage (crystal form 3)
78	c2dwcB	Alignment	not modelled	30.4	24	PDB header: transferase Chain: B: PDB Molecule: 433aa long hypothetical phosphoribosylglycinamide formyl PDBTitle: crystal structure of probable phosphoribosylglycinamide formyl2 transferase from pyrococcus horikoshii ot3 complexed with adp
79	c3aapA	Alignment	not modelled	30.4	21	PDB header: hydrolase Chain: A: PDB Molecule: ectonucleoside triphosphate diphosphohydrolase i;

					PDBTitle: crystal structure of lp1ntpdase from legionella pneumophila
80	d2aa4a1	Alignment	not modelled	29.5	21 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: ROK
81	c1dxyA	Alignment	not modelled	29.2	20 PDB header: oxidoreductase Chain: A: PDB Molecule: d-2-hydroxyisocaproate dehydrogenase; PDBTitle: structure of d-2-hydroxyisocaproate dehydrogenase
82	d1z05a3	Alignment	not modelled	28.8	11 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: ROK
83	c2ch5D	Alignment	not modelled	28.8	13 PDB header: transferase Chain: D: PDB Molecule: nagk protein; PDBTitle: crystal structure of human n-acetylglucosamine kinase in2 complex with n-acetylglucosamine
84	c3bazA	Alignment	not modelled	28.6	12 PDB header: oxidoreductase Chain: A: PDB Molecule: hydroxyphenylpyruvate reductase; PDBTitle: structure of hydroxyphenylpyruvate reductase from coleus blumei in2 complex with nadp+
85	d2gupa1	Alignment	not modelled	28.6	17 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: ROK
86	d1kjqaz	Alignment	not modelled	28.3	21 Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: BC N-terminal domain-like
87	c1mwmA	Alignment	not modelled	26.6	26 PDB header: structural protein Chain: A: PDB Molecule: parm; PDBTitle: parm from plasmid r1 adp form
88	c2d3tB	Alignment	not modelled	26.5	7 PDB header: lyase, oxidoreductase/transferase Chain: B: PDB Molecule: fatty oxidation complex alpha subunit; PDBTitle: fatty acid beta-oxidation multienzyme complex from2 pseudomonas fragi, form v
89	c2g1uA	Alignment	not modelled	25.3	15 PDB header: transport protein Chain: A: PDB Molecule: hypothetical protein tm1088a; PDBTitle: crystal structure of a putative transport protein (tm1088a) from2 thermotoga maritima at 1.50 a resolution
90	d2hmvaz	Alignment	not modelled	24.1	14 Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Potassium channel NAD-binding domain
91	d1d7ya2	Alignment	not modelled	23.9	14 Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
92	c2j6iC	Alignment	not modelled	23.4	16 PDB header: oxidoreductase Chain: C: PDB Molecule: formate dehydrogenase; PDBTitle: candida boidinii formate dehydrogenase (fdh) c-terminal2 mutant
93	d2hoeaz	Alignment	not modelled	22.0	11 Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: ROK
94	d1kyqaz	Alignment	not modelled	22.0	23 Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Siroheme synthase N-terminal domain-like
95	c3vgkB	Alignment	not modelled	20.2	13 PDB header: transferase Chain: B: PDB Molecule: glucokinase; PDBTitle: crystal structure of a rok family glucokinase from streptomyces2 griseus
96	c2wtbA	Alignment	not modelled	20.1	13 PDB header: oxidoreductase Chain: A: PDB Molecule: fatty acid multifunctional protein (atmfp2); PDBTitle: arabidopsis thaliana multifunctional protein, mfp2
97	d2d1pa1	Alignment	not modelled	20.1	4 Fold: DsrEFH-like Superfamily: DsrEFH-like Family: DsrEF-like
98	c2x58B	Alignment	not modelled	20.0	17 PDB header: oxidoreductase Chain: B: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: the crystal structure of mfe1 liganded with coa
99	c1z05A	Alignment	not modelled	19.6	13 PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator, rok family; PDBTitle: crystal structure of the rok family transcriptional regulator, homolog2 of e.coli mlc protein.