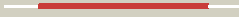






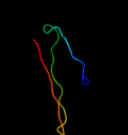

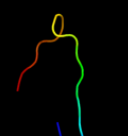















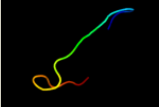




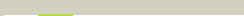










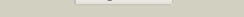
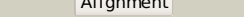
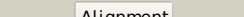
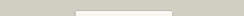






#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1yy3A_	 Alignment		100.0	45	PDB header: isomerase Chain: A: PDB Molecule: s-adenosylmethionine:trna ribosyltransferase- PDBTitle: structure of s-adenosylmethionine:trna ribosyltransferase-2 isomerase (quea)
2	d1wdia_	 Alignment		100.0	48	Fold: QueA-like Superfamily: QueA-like Family: QueA-like
3	d1vkya_	 Alignment		100.0	46	Fold: QueA-like Superfamily: QueA-like Family: QueA-like
4	d1jr7a_	 Alignment		88.5	20	Fold: Double-stranded beta-helix Superfamily: Clavamine synthase-like Family: Gab protein (hypothetical protein YgaT)
5	c3ms5A_	 Alignment		86.1	44	PDB header: oxidoreductase Chain: A: PDB Molecule: gamma-butyrobetaine dioxygenase; PDBTitle: crystal structure of human gamma-butyrobetaine,2-oxoglutarate2 dioxygenase 1 (bbox1)
6	d1ds1a_	 Alignment		84.7	56	Fold: Double-stranded beta-helix Superfamily: Clavamine synthase-like Family: Clavamine synthase
7	c2og5A_	 Alignment		83.4	33	PDB header: oxidoreductase Chain: A: PDB Molecule: putative oxygenase; PDBTitle: crystal structure of asparagine oxygenase (asno)
8	c2wbqA_	 Alignment		81.9	33	PDB header: oxidoreductase Chain: A: PDB Molecule: l-arginine beta-hydroxylase; PDBTitle: crystal structure of vioc in complex with (2s,3s)-2 hydroxyarginine
9	d1oiha_	 Alignment		81.2	17	Fold: Double-stranded beta-helix Superfamily: Clavamine synthase-like Family: TauD/TfdA-like
10	d1otja_	 Alignment		79.3	17	Fold: Double-stranded beta-helix Superfamily: Clavamine synthase-like Family: TauD/TfdA-like
11	c3r1jB_	 Alignment		77.2	22	PDB header: oxidoreductase Chain: B: PDB Molecule: alpha-ketoglutarate-dependent taurine dioxygenase; PDBTitle: crystal structure of alpha-ketoglutarate-dependent taurine dioxygenase2 from mycobacterium avium, native form

12	c3pvjB_		Alignment		76.1	11	PDB header: oxidoreductase Chain: B: PDB Molecule: alpha-ketoglutarate-dependent taurine dioxygenase; PDBTitle: crystal structure of the fe(ii)/alpha-ketoglutarate dependent taurine2 dioxygenase from pseudomonas putida kt2440
13	c3eatX_		Alignment		74.8	22	PDB header: oxidoreductase Chain: X: PDB Molecule: pyoverdine biosynthesis protein pvcb; PDBTitle: crystal structure of the pvcb (pa2255) protein from2 pseudomonas aeruginosa
14	d1y0za_		Alignment		69.3	33	Fold: Double-stranded beta-helix Superfamily: Clavamate synthase-like Family: gamma-Butyrobetaine hydroxylase
15	d1qyia_		Alignment		63.7	26	Fold: HAD-like Superfamily: HAD-like Family: Hypothetical protein MW1667 (SA1546)
16	d1nx4a_		Alignment		61.9	50	Fold: Double-stranded beta-helix Superfamily: Clavamate synthase-like Family: gamma-Butyrobetaine hydroxylase
17	c3p9za_		Alignment		47.6	13	PDB header: ligase Chain: A: PDB Molecule: uroporphyrinogen iii cosynthase (hemd); PDBTitle: crystal structure of uroporphyrinogen-iii synthetase from helicobacter2 pylori 26695
18	c2nuxB_		Alignment		47.4	16	PDB header: lyase Chain: B: PDB Molecule: 2-keto-3-deoxygluconate/2-keto-3-deoxy-6-phospho gluconate PDBTitle: 2-keto-3-deoxygluconate aldolase from sulfolobus acidocaldarius,2 native structure in p6522 at 2.5 a resolution
19	d1hg3a_		Alignment		44.7	23	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
20	c2hc9A_		Alignment		44.5	18	PDB header: hydrolase Chain: A: PDB Molecule: leucine aminopeptidase 1; PDBTitle: structure of caenorhabditis elegans leucine aminopeptidase-zinc2 complex (lap1)
21	d1a3xa1		Alignment	not modelled	44.5	11	Fold: PK beta-barrel domain-like Superfamily: PK beta-barrel domain-like Family: Pyruvate kinase beta-barrel domain
22	c3ny0D_		Alignment	not modelled	43.2	14	PDB header: metal binding protein Chain: D: PDB Molecule: urease accessory protein uree; PDBTitle: crystal structure of uree from helicobacter pylori (ni2+ bound form)
23	c3pihA_		Alignment	not modelled	42.8	32	PDB header: hydrolase/dna Chain: A: PDB Molecule: uvrabc system protein a; PDBTitle: t. maritima uvra in complex with fluorescein-modified dna
24	d1ttja_		Alignment	not modelled	40.1	45	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
25	c2h6rG_		Alignment	not modelled	40.0	19	PDB header: isomerase Chain: G: PDB Molecule: triosephosphate isomerase; PDBTitle: crystal structure of triosephosphate isomerase (tim) from2 methanocaldococcus jannaschii
26	d1jr2a_		Alignment	not modelled	38.6	20	Fold: HemD-like Superfamily: HemD-like Family: HemD-like
27	c1jr2A_		Alignment	not modelled	38.6	20	PDB header: lyase Chain: A: PDB Molecule: uroporphyrinogen-iii synthase; PDBTitle: structure of uroporphyrinogen iii synthase
28	d1n55a_		Alignment	not modelled	37.4	35	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
29	c2vf7B_		Alignment	not modelled	37.2	39	PDB header: dna-binding protein Chain: B: PDB Molecule: excinuclease abc, subunit a.; PDBTitle: crystal structure of uvra2 from deinococcus radiodurans

30	d1mo0a_	Alignment	not modelled	37.0	26	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
31	d1pkla1	Alignment	not modelled	35.5	15	Fold: PK beta-barrel domain-like Superfamily: PK beta-barrel domain-like Family: Pyruvate kinase beta-barrel domain
32	d1w0ma_	Alignment	not modelled	35.5	28	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
33	d2ebfx2	Alignment	not modelled	34.9	10	Fold: EreA/ChaN-like Superfamily: EreA/ChaN-like Family: PMT domain-like
34	d1wjja_	Alignment	not modelled	34.6	28	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
35	d2evra2	Alignment	not modelled	34.5	28	Fold: Cysteine proteinases Superfamily: Cysteine proteinases Family: NIpC/P60
36	d1sw3a_	Alignment	not modelled	33.4	29	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
37	c2dp3A_	Alignment	not modelled	32.9	29	PDB header: isomerase Chain: A: PDB Molecule: triosephosphate isomerase; PDBTitle: crystal structure of a double mutant (c202a/a198v) of triosephosphate2 isomerase from giardia lamblia
38	c1pkIB_	Alignment	not modelled	32.0	15	PDB header: transferase Chain: B: PDB Molecule: protein (pyruvate kinase); PDBTitle: the structure of leishmania pyruvate kinase
39	d1wd7a_	Alignment	not modelled	31.0	18	Fold: HemD-like Superfamily: HemD-like Family: HemD-like
40	d2b8ea1	Alignment	not modelled	30.1	17	Fold: HAD-like Superfamily: HAD-like Family: Meta-cation ATPase, catalytic domain P
41	c3fkka_	Alignment	not modelled	29.4	10	PDB header: lyase Chain: A: PDB Molecule: l-2-keto-3-deoxyarabonate dehydratase; PDBTitle: structure of l-2-keto-3-deoxyarabonate dehydratase
42	c1yyaA_	Alignment	not modelled	29.4	26	PDB header: isomerase Chain: A: PDB Molecule: triosephosphate isomerase; PDBTitle: crystal structure of tt0473, putative triosephosphate isomerase from2 thermus thermophilus hb8
43	d1omha_	Alignment	not modelled	28.7	31	Fold: Origin of replication-binding domain, RBD-like Superfamily: Origin of replication-binding domain, RBD-like Family: Relaxase domain
44	d1neva_	Alignment	not modelled	28.6	29	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
45	c3kxqB_	Alignment	not modelled	28.4	45	PDB header: isomerase Chain: B: PDB Molecule: triosephosphate isomerase; PDBTitle: crystal structure of triosephosphate isomerase from bartonella2 henselae at 1.6a resolution
46	c3i5aA_	Alignment	not modelled	28.2	20	PDB header: signaling protein Chain: A: PDB Molecule: response regulator/ggdef domain protein; PDBTitle: crystal structure of full-length wpsr from pseudomonas syringae
47	c3hvbB_	Alignment	not modelled	28.2	13	PDB header: hydrolase Chain: B: PDB Molecule: protein fimx; PDBTitle: crystal structure of the dual-domain ggdef-eal module of2 fimx from pseudomonas aeruginosa
48	c3l6tB_	Alignment	not modelled	28.2	24	PDB header: hydrolase Chain: B: PDB Molecule: mobilization protein trai; PDBTitle: crystal structure of an n-terminal mutant of the plasmid pcu1 trai2 relaxase domain
49	d1b9ba_	Alignment	not modelled	28.1	32	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
50	c3d8tB_	Alignment	not modelled	28.0	16	PDB header: lyase Chain: B: PDB Molecule: uroporphyrinogen-iii synthase; PDBTitle: thermus thermophilus uroporphyrinogen iii synthase
51	d1diha1	Alignment	not modelled	27.1	19	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Glyceraldehyde-3-phosphate dehydrogenase-like, N-terminal domain
52	c2x7ja_	Alignment	not modelled	26.9	21	PDB header: transferase Chain: A: PDB Molecule: 2-succinyl-5-enolpyruvyl-6-hydroxy-3-cyclohexene PDBTitle: structure of the menaquinone biosynthesis protein mend from2 bacillus subtilis
53	d1r2ra_	Alignment	not modelled	26.7	26	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
54	d1suxa_	Alignment	not modelled	26.6	42	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
55	d1o7ia_	Alignment	not modelled	26.2	14	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
56	d1kv5a_	Alignment	not modelled	25.8	45	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM)

						Family: Triosephosphate isomerase (TIM)
57	c1nl3B_	Alignment	not modelled	25.8	31	PDB header: protein transport Chain: B: PDB Molecule: preprotein translocase seca 1 subunit; PDBTitle: crystal structure of the seca protein translocation atpase2 from mycobacterium tuberculosis in apo form
58	d1xnea_	Alignment	not modelled	24.4	33	Fold: PUA domain-like Superfamily: PUA domain-like Family: ProFAR isomerase associated domain
59	d1w3ia_	Alignment	not modelled	23.7	28	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
60	c1ayeA_	Alignment	not modelled	23.4	16	PDB header: serine protease Chain: A: PDB Molecule: procarboxypeptidase a2; PDBTitle: human procarboxypeptidase a2
61	c3m9yB_	Alignment	not modelled	22.5	35	PDB header: isomerase Chain: B: PDB Molecule: triosephosphate isomerase; PDBTitle: crystal structure of triosephosphate isomerase from methicillin2 resistant staphylococcus aureus at 1.9 angstrom resolution
62	c3civA_	Alignment	not modelled	22.3	8	PDB header: hydrolase Chain: A: PDB Molecule: endo-beta-1,4-mannanase; PDBTitle: crystal structure of the endo-beta-1,4-mannanase from2 alicyclobacillus acidocaldarius
63	c2gm2A_	Alignment	not modelled	21.9	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved hypothetical protein; PDBTitle: nmr structure of xanthomonas campestris xcc1710: northeast2 structural genomics consortium target xcr35
64	c3ijpA_	Alignment	not modelled	21.7	31	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrodipicolinate reductase; PDBTitle: crystal structure of dihydrodipicolinate reductase from2 bartonella henselae at 2.0a resolution
65	c2jgqB_	Alignment	not modelled	21.6	26	PDB header: isomerase Chain: B: PDB Molecule: triosephosphate isomerase; PDBTitle: kinetics and structural properties of triosephosphate2 isomerase from helicobacter pylori
66	c3shoA_	Alignment	not modelled	20.7	29	PDB header: transcription regulator Chain: A: PDB Molecule: transcriptional regulator, rpir family; PDBTitle: crystal structure of rpir transcription factor from spharobacter2 thermophilus (sugar isomerase domain)
67	c3dinB_	Alignment	not modelled	20.5	25	PDB header: membrane protein, protein transport Chain: B: PDB Molecule: protein translocase subunit seca; PDBTitle: crystal structure of the protein-translocation complex formed by the2 secy channel and the seca atpase
68	d1jmca1	Alignment	not modelled	20.5	15	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Single strand DNA-binding domain, SSB
69	d1m6ja_	Alignment	not modelled	20.5	32	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
70	c2boaB_	Alignment	not modelled	20.5	15	PDB header: hydrolase Chain: B: PDB Molecule: carboxypeptidase a4; PDBTitle: human procarboxypeptidase a4.
71	d2g50a1	Alignment	not modelled	20.4	8	Fold: PK beta-barrel domain-like Superfamily: PK beta-barrel domain-like Family: Pyruvate kinase beta-barrel domain
72	c2k50A_	Alignment	not modelled	20.0	22	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: replication factor a related protein; PDBTitle: solution nmr structure of the replication factor a related2 protein from methanobacterium thermoautotrophicum.3 northeast structural genomics target tr91a.
73	d1ntga_	Alignment	not modelled	19.9	16	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Myf domain
74	c3bi8A_	Alignment	not modelled	19.9	22	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: structure of dihydrodipicolinate synthase from clostridium2 botulinum
75	d1o5xa_	Alignment	not modelled	19.8	23	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
76	c1drwA_	Alignment	not modelled	19.3	19	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrodipicolinate reductase; PDBTitle: escherichia coli dhpr/nhdh complex
77	d1hl2a_	Alignment	not modelled	19.2	25	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
78	c2eo2A_	Alignment	not modelled	18.4	22	PDB header: oxidoreductase Chain: A: PDB Molecule: adult male hypothalamus cdna, riken full-length PDBTitle: solution structure of the insertion region (510-573) of2 fthfs domain from mouse methylenetetrahydrofolate3 dehydrogenase (nadp+ dependent) 1-like protein
79	c3s6dA_	Alignment	not modelled	18.3	32	PDB header: isomerase Chain: A: PDB Molecule: putative triosephosphate isomerase; PDBTitle: crystal structure of a putative triosephosphate isomerase from2 coccidioides immitis
80	c3lerA_	Alignment	not modelled	18.0	18	PDB header: lyase Chain: A: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 campylobacter jejuni subsp. jejuni nctc 11168
81	c1ynxA_	Alignment	not modelled	18.0	18	PDB header: dna binding protein Chain: A: PDB Molecule: replication factor-a protein 1; PDBTitle: solution structure of dna binding domain a (dbd-a) of2 s.cerevisiae replication protein a (rpa)
						PDB header: isomerase

82	c3krsB	Alignment	not modelled	17.9	32	Chain: B: PDB Molecule: triosephosphate isomerase; PDBTitle: structure of triosephosphate isomerase from cryptosporidium parvum at2 1.55a resolution
83	c3gvgA	Alignment	not modelled	17.6	26	PDB header: isomerase Chain: A: PDB Molecule: triosephosphate isomerase; PDBTitle: crystal structure of triosephosphate isomerase from mycobacterium2 tuberculosis
84	c2zpmA	Alignment	not modelled	16.9	29	PDB header: hydrolase Chain: A: PDB Molecule: regulator of sigma e protease; PDBTitle: crystal structure analysis of pdz domain b
85	dlolxa	Alignment	not modelled	16.8	25	Fold: Ribose/Galactose isomerase RpiB/AlsB Superfamily: Ribose/Galactose isomerase RpiB/AlsB Family: Ribose/Galactose isomerase RpiB/AlsB
86	c3th6B	Alignment	not modelled	16.8	26	PDB header: isomerase Chain: B: PDB Molecule: triosephosphate isomerase; PDBTitle: crystal structure of triosephosphate isomerase from rhipicephalus2 (boophilus) microplus.
87	c2ygrD	Alignment	not modelled	16.7	36	PDB header: hydrolase Chain: D: PDB Molecule: uvrabc system protein a; PDBTitle: mycobacterium tuberculosis uvra
88	c3pl0B	Alignment	not modelled	16.2	25	PDB header: biosynthetic protein Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a bsma homolog (mpe_a2762) from methylobium2 petroleophilum pm1 at 1.91 a resolution
89	dltra	Alignment	not modelled	16.2	29	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
90	c3ahxC	Alignment	not modelled	16.1	24	PDB header: hydrolase Chain: C: PDB Molecule: beta-glucosidase a; PDBTitle: crystal structure of beta-glucosidase a from bacterium clostridium2 cellulovorans
91	dlp4da	Alignment	not modelled	16.0	28	Fold: Origin of replication-binding domain, RBD-like Superfamily: Origin of replication-binding domain, RBD-like Family: Relaxase domain
92	dlawla	Alignment	not modelled	15.8	32	Fold: TIM beta/alpha-barrel Superfamily: Triosephosphate isomerase (TIM) Family: Triosephosphate isomerase (TIM)
93	dlwcga1	Alignment	not modelled	15.8	20	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: Family 1 of glycosyl hydrolase
94	dlowfa	Alignment	not modelled	15.6	22	Fold: IHF-like DNA-binding proteins Superfamily: IHF-like DNA-binding proteins Family: Prokaryotic DNA-bending protein
95	c3hv9A	Alignment	not modelled	15.4	13	PDB header: hydrolase Chain: A: PDB Molecule: protein fimx; PDBTitle: crystal structure of fimx eal domain from pseudomonas aeruginosa
96	c3e96B	Alignment	not modelled	15.4	12	PDB header: lyase Chain: B: PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from2 bacillus clausii
97	dlso4a	Alignment	not modelled	15.4	27	Fold: PUA domain-like Superfamily: PUA domain-like Family: ProFAR isomerase associated domain
98	c2iyeC	Alignment	not modelled	15.3	23	PDB header: hydrolase Chain: C: PDB Molecule: copper-transporting atpase; PDBTitle: structure of catalytic cpx-atpase domain copb-b
99	dlso5ka	Alignment	not modelled	14.8	17	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase