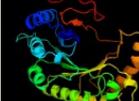
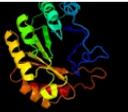


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD3109_(moaA1)_3477646_3478725
 Date Thu Aug 8 16:20:29 BST 2019
 Unique Job ID 46f40e796196d289

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1tv8a_	 Alignment		100.0	38	Fold: TIM beta/alpha-barrel Superfamily: Radical SAM enzymes Family: MoCo biosynthesis proteins
2	c6efnA_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: sporulation killing factor maturation protein skfb; PDBTitle: structure of a ripp maturase, skfb
3	c4wxcC_	 Alignment		100.0	13	PDB header: lyase Chain: C: PDB Molecule: biotin and thiamin synthesis associated; PDBTitle: crystal structure of hydg: a maturase of the [fe]-hydrogenase
4	c5v1tA_	 Alignment		100.0	17	PDB header: metal binding protein Chain: A: PDB Molecule: radical sam; PDBTitle: crystal structure of streptococcus suis suib bound to precursor2 peptide sua
5	c4k39A_	 Alignment		100.0	15	PDB header: oxidoreductase Chain: A: PDB Molecule: anaerobic sulfatase-maturing enzyme; PDBTitle: native ansmece with bound adomet and cp18cys peptide
6	c5wggA_	 Alignment		100.0	16	PDB header: peptide binding protein Chain: A: PDB Molecule: radical sam domain protein; PDBTitle: structural insights into thioether bond formation in the biosynthesis2 of sactipeptides
7	c5vslB_	 Alignment		100.0	19	PDB header: antiviral protein Chain: B: PDB Molecule: radical s-adenosyl methionine domain-containing protein 2; PDBTitle: crystal structure of viperin with bound [4fe-4s] cluster and s-2 adenosylhomocysteine (sah)
8	c6b4cH_	 Alignment		100.0	16	PDB header: antiviral protein Chain: H: PDB Molecule: viperin; PDBTitle: structure of viperin from trichoderma virens
9	c6c8vA_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: coenzyme pqq synthesis protein e; PDBTitle: x-ray structure of pqqe from methylobacterium extorquens
10	c2yx0A_	 Alignment		99.9	16	PDB header: metal binding protein Chain: A: PDB Molecule: radical sam enzyme; PDBTitle: crystal structure of p. horikoshii tyw1
11	c5th5C_	 Alignment		99.9	14	PDB header: lyase Chain: C: PDB Molecule: 7-carboxy-7-deazaguanine synthase; PDBTitle: crystal structure of quee from bacillus subtilis with 6-carboxypterin-2 5'-deoxyadenosyl ester bound

12	c3rfaB	Alignment		99.9	19	PDB header: oxidoreductase Chain: B: PDB Molecule: ribosomal rna large subunit methyltransferase n; PDBTitle: x-ray structure of rlmn from escherichia coli in complex with s-2 adenosylmethionine
13	c4m7tA	Alignment		99.9	19	PDB header: metal binding protein Chain: A: PDB Molecule: btrn; PDBTitle: crystal structure of btrn in complex with adomet and 2-doia
14	c3c8fA	Alignment		99.9	18	PDB header: oxidoreductase Chain: A: PDB Molecule: pyruvate formate-lyase 1-activating enzyme; PDBTitle: 4fe-4s-pyruvate formate-lyase activating enzyme with partially2 disordered adomet
15	c3t7vA	Alignment		99.9	14	PDB header: transferase Chain: A: PDB Molecule: methylornithine synthase pylb; PDBTitle: crystal structure of methylornithine synthase (pylb)
16	c6fz6B	Alignment		99.8	18	PDB header: transferase Chain: B: PDB Molecule: probable dual-specificity rna methyltransferase rlmn; PDBTitle: crystal structure of a radical sam methyltransferase from2 sphaerobacter thermophilus
17	c5exkG	Alignment		99.8	19	PDB header: transferase Chain: G: PDB Molecule: lipoyl synthase; PDBTitle: crystal structure of m. tuberculosis lipoyl synthase with 6-2 thiooctanoyl peptide intermediate
18	c4u0pB	Alignment		99.8	14	PDB header: transferase Chain: B: PDB Molecule: lipoyl synthase 2; PDBTitle: the crystal structure of lipoyl synthase in complex with s-adenosyl2 homocysteine
19	c3rfaA	Alignment		99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: ribosomal rna large subunit methyltransferase n; PDBTitle: x-ray structure of rlmn from escherichia coli in complex with s-2 adenosylmethionine
20	c2a5hC	Alignment		99.8	17	PDB header: isomerase Chain: C: PDB Molecule: l-lysine 2,3-aminomutase; PDBTitle: 2.1 angstrom x-ray crystal structure of lysine-2,3-aminomutase from2 clostridium subterminale sb4, with michaelis analog (l-alpha-lysine3 external aldimine form of pyridoxal-5'-phosphate).
21	c1r30A	Alignment	not modelled	99.8	17	PDB header: transferase Chain: A: PDB Molecule: biotin synthase; PDBTitle: the crystal structure of biotin synthase, an s-adenosylmethionine-2 dependent radical enzyme
22	d1r30a	Alignment	not modelled	99.8	17	Fold: TIM beta/alpha-barrel Superfamily: Radical SAM enzymes Family: Biotin synthase
23	c4jc0B	Alignment	not modelled	99.8	13	PDB header: transferase Chain: B: PDB Molecule: ribosomal protein s12 methylthiotransferase rimo; PDBTitle: crystal structure of thermotoga maritima holo rimo in complex with2 pentasulfide, northeast structural genomics consortium target vr77
24	c3cixA	Alignment	not modelled	99.8	18	PDB header: adomet binding protein Chain: A: PDB Molecule: fefe-hydrogenase maturase; PDBTitle: x-ray structure of the [fefe]-hydrogenase maturase hyde from2 thermotoga maritima in complex with thiocyanate
25	c4rtbA	Alignment	not modelled	99.8	14	PDB header: lyase Chain: A: PDB Molecule: hydg protein; PDBTitle: x-ray structure of the fefe-hydrogenase maturase hydg from2 carboxydotherrmus hydrogenoformans
26	c2z2uA	Alignment	not modelled	99.8	21	PDB header: metal binding protein Chain: A: PDB Molecule: upf0026 protein mj0257; PDBTitle: crystal structure of archaeal tyw1
27	d1olta	Alignment	not modelled	99.8	14	Fold: TIM beta/alpha-barrel Superfamily: Radical SAM enzymes Family: Oxygen-independent coproporphyrinogen III oxidase HemN
28	c3canA	Alignment	not modelled	99.8	18	PDB header: lyase activator Chain: A: PDB Molecule: pyruvate-formate lyase-activating enzyme; PDBTitle: crystal structure of a domain of pyruvate-formate lyase-activating2 enzyme from bacteroides vulgatus atcc 8482

29	c6nhbB	Alignment	not modelled	99.8	27	PDB header: lyase Chain: B: PDB Molecule: 7-carboxy-7-deazaguanine synthase; PDBTitle: crystal structure of quee from escherichia coli
30	c4njka	Alignment	not modelled	99.8	22	PDB header: lyase Chain: A: PDB Molecule: 7-carboxy-7-deazaguanine synthase; PDBTitle: crystal structure of quee from burkholderia multivorans in complex2 with adomet, 7-carboxy-7-deazaguanine, and mg2+
31	c6fd2B	Alignment	not modelled	99.7	18	PDB header: biosynthetic protein Chain: B: PDB Molecule: putative apramycin biosynthetic oxidoreductase 4; PDBTitle: radical sam 1,2-diol dehydratase aprd4 in complex with its substrate2 paromamine
32	c4r33A	Alignment	not modelled	99.5	16	PDB header: lyase Chain: A: PDB Molecule: nosl; PDBTitle: x-ray structure of the tryptophan lyase nosl with tryptophan and s-2 adenosyl-l-homocysteine bound
33	c5l7jA	Alignment	not modelled	99.4	13	PDB header: translation Chain: A: PDB Molecule: elp3 family; PDBTitle: crystal structure of elp3 from dehalococcoides mccartyi
34	c5ul4A	Alignment	not modelled	99.4	17	PDB header: metal binding protein Chain: A: PDB Molecule: oxsb protein; PDBTitle: structure of cobalamin-dependent s-adenosylmethionine radical enzyme2 oxsb with aqua-cobalamin and s-adenosylmethionine bound
35	c6qk7C	Alignment	not modelled	99.3	13	PDB header: translation Chain: C: PDB Molecule: elongator complex protein 3; PDBTitle: elongator catalytic subcomplex elp123 lobe
36	c2qqqF	Alignment	not modelled	99.3	13	PDB header: structural genomics, unknown function Chain: F: PDB Molecule: protein tm_1862; PDBTitle: crystal structure of tm_1862 from thermotoga maritima. northeast2 structural genomics consortium target vr77
37	c6iazA	Alignment	not modelled	99.0	15	PDB header: transferase Chain: A: PDB Molecule: histone acetyltransferase, elp3 family; PDBTitle: the archaeal methanocaldococcus infernus elp3 with n-terminus deletion2 (1-46)
38	c4fheA	Alignment	not modelled	99.0	13	PDB header: lyase Chain: A: PDB Molecule: spore photoproduct lyase; PDBTitle: spore photoproduct lyase c140a mutant
39	c3rmjB	Alignment	not modelled	97.6	12	PDB header: transferase Chain: B: PDB Molecule: 2-isopropylmalate synthase; PDBTitle: crystal structure of truncated alpha-isopropylmalate synthase from2 neisseria meningitidis
40	c3ivuB	Alignment	not modelled	97.6	14	PDB header: transferase Chain: B: PDB Molecule: homocitrate synthase, mitochondrial; PDBTitle: homocitrate synthase lys4 bound to 2-og
41	c6e1jB	Alignment	not modelled	97.6	18	PDB header: plant protein Chain: B: PDB Molecule: 2-isopropylmalate synthase, a genome specific 1; PDBTitle: crystal structure of methylthioalkylmalate synthase (bjumam1.1) from2 brassica juncea
42	c3ewbX	Alignment	not modelled	97.1	14	PDB header: transferase Chain: X: PDB Molecule: 2-isopropylmalate synthase; PDBTitle: crystal structure of n-terminal domain of putative 2-isopropylmalate2 synthase from listeria monocytogenes
43	c3bleA	Alignment	not modelled	96.8	16	PDB header: transferase Chain: A: PDB Molecule: citramalate synthase from leptospira interrogans; PDBTitle: crystal structure of the catalytic domain of licms in complexed with2 malonate
44	c3eegB	Alignment	not modelled	96.6	15	PDB header: transferase Chain: B: PDB Molecule: 2-isopropylmalate synthase; PDBTitle: crystal structure of a 2-isopropylmalate synthase from2 cytophaga hutchinsonii
45	c2ftpA	Alignment	not modelled	96.1	14	PDB header: lyase Chain: A: PDB Molecule: hydroxymethylglutaryl-coa lyase; PDBTitle: crystal structure of hydroxymethylglutaryl-coa lyase from pseudomonas2 aeruginosa
46	c1nvmG	Alignment	not modelled	95.9	18	PDB header: lyase/oxidoreductase Chain: G: PDB Molecule: 4-hydroxy-2-oxovalerate aldolase; PDBTitle: crystal structure of a bifunctional aldolase-dehydrogenase :2 sequestering a reactive and volatile intermediate
47	c1sr9A	Alignment	not modelled	95.5	12	PDB header: transferase Chain: A: PDB Molecule: 2-isopropylmalate synthase; PDBTitle: crystal structure of leua from mycobacterium tuberculosis
48	c2cw6B	Alignment	not modelled	95.3	18	PDB header: lyase Chain: B: PDB Molecule: hydroxymethylglutaryl-coa lyase, mitochondrial; PDBTitle: crystal structure of human hmg-coa lyase: insights into2 catalysis and the molecular basis for3 hydroxymethylglutaric aciduria
49	c5zmyF	Alignment	not modelled	95.1	13	PDB header: hydrolase Chain: F: PDB Molecule: cis-epoxysuccinate hydrolase; PDBTitle: crystal structure of a cis-epoxysuccinate hydrolase producing d(-)-2 tartaric acids
50	c3hpxB	Alignment	not modelled	94.7	12	PDB header: transferase Chain: B: PDB Molecule: 2-isopropylmalate synthase; PDBTitle: crystal structure of mycobacterium tuberculosis leua active site2 domain 1-425 (truncation mutant delta:426-644)
51	c1ydcC	Alignment	not modelled	94.4	15	PDB header: lyase Chain: C: PDB Molecule: hmg-coa lyase; PDBTitle: crystal structure of the bacillus subtilis hmg-coa lyase, northeast2 structural genomics target sr181.
52	c4jn6C	Alignment	not modelled	94.4	16	PDB header: lyase/oxidoreductase Chain: C: PDB Molecule: 4-hydroxy-2-oxovalerate aldolase; PDBTitle: crystal structure of the aldolase-dehydrogenase complex from2 mycobacterium tuberculosis hrv37
53	c4nvaA	Alignment	not modelled	94.3	11	PDB header: transferase Chain: A: PDB Molecule: isopropylmalate synthase;

53	c40v3A	Alignment	not modelled	94.2	11	PDBTitle: structure of isopropylmalate synthase binding with alpha-2 isopropylmalate PDB header: lyase
54	c1ydnA	Alignment	not modelled	94.1	14	Chain: A: PDB Molecule: hydroxymethylglutaryl-coa lyase; PDBTitle: crystal structure of the hmg-coa lyase from brucella melitensis,2 northeast structural genomics target lr35.
55	d1nvma2	Alignment	not modelled	93.8	18	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: HMGL-like
56	d1eyea	Alignment	not modelled	93.4	20	Fold: TIM beta/alpha-barrel Superfamily: Dihydropteroate synthetase-like Family: Dihydropteroate synthetase
57	c2p0oA	Alignment	not modelled	91.3	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein duf871; PDBTitle: crystal structure of a conserved protein from locus ef_2437 in2 enterococcus faecalis with an unknown function
58	c5ks8D	Alignment	not modelled	90.6	14	PDB header: ligase Chain: D: PDB Molecule: pyruvate carboxylase subunit beta; PDBTitle: crystal structure of two-subunit pyruvate carboxylase from2 methylobacillus flagellatus
59	c4lrtC	Alignment	not modelled	85.8	17	PDB header: lyase/oxidoreductase Chain: C: PDB Molecule: 4-hydroxy-2-oxovalerate aldolase; PDBTitle: crystal and solution structures of the bifunctional enzyme2 (aldolase/aldehyde dehydrogenase) from thermomonospora curvata,3 reveal a cofactor-binding domain motion during nad+ and coa4 accommodation within the shared cofactor-binding site
60	c1rr2A	Alignment	not modelled	85.0	16	PDB header: transferase Chain: A: PDB Molecule: transcarboxylase 5s subunit; PDBTitle: propionibacterium shermanii transcarboxylase 5s subunit bound to 2-2 ketobutyric acid
61	c3vteA	Alignment	not modelled	83.3	13	PDB header: oxidoreductase Chain: A: PDB Molecule: tetrahydrocannabinolic acid synthase; PDBTitle: crystal structure of tetrahydrocannabinolic acid synthase from2 cannabis sativa
62	c2zyfA	Alignment	not modelled	83.3	13	PDB header: transferase Chain: A: PDB Molecule: homocitrate synthase; PDBTitle: crystal structure of homocitrate synthase from thermus thermophilus2 complexed with magnesium ion and alpha-ketoglutarate
63	d1n7ka	Alignment	not modelled	81.0	16	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
64	c3w9zA	Alignment	not modelled	80.4	15	PDB header: oxidoreductase Chain: A: PDB Molecule: trna-dihydrouridine synthase c; PDBTitle: crystal structure of dusc
65	c2nx9B	Alignment	not modelled	79.4	16	PDB header: lyase Chain: B: PDB Molecule: oxaloacetate decarboxylase 2, subunit alpha; PDBTitle: crystal structure of the carboxyltransferase domain of the2 oxaloacetate decarboxylase na+ pump from vibrio cholerae
66	c6omzA	Alignment	not modelled	74.7	15	PDB header: ligase Chain: A: PDB Molecule: dihydropteroate synthase; PDBTitle: crystal structure of dihydropteroate synthase from mycobacterium2 smegmatis with bound 6-hydroxymethylpterin-monophosphate
67	d1vyra	Alignment	not modelled	74.0	9	Fold: TIM beta/alpha-barrel Superfamily: FMN-linked oxidoreductases Family: FMN-linked oxidoreductases
68	c3hf3A	Alignment	not modelled	72.4	16	PDB header: oxidoreductase Chain: A: PDB Molecule: chromate reductase; PDBTitle: old yellow enzyme from thermus scotoductus sa-01
69	d1rqba2	Alignment	not modelled	72.2	16	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: HMGL-like
70	c3c6cA	Alignment	not modelled	72.1	18	PDB header: hydrolase Chain: A: PDB Molecule: 3-keto-5-aminohexanoate cleavage enzyme; PDBTitle: crystal structure of a putative 3-keto-5-aminohexanoate cleavage2 enzyme (reut_c6226) from ralstonia eutropha jmp134 at 1.72 a3 resolution
71	c2zq0B	Alignment	not modelled	71.6	14	PDB header: hydrolase Chain: B: PDB Molecule: alpha-glucosidase (alpha-glucosidase sub); PDBTitle: crystal structure of sub complexed with acarbose
72	c3dxiB	Alignment	not modelled	70.7	13	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative aldolase; PDBTitle: crystal structure of the n-terminal domain of a putative2 aldolase (bvu_2661) from bacteroides vulgatus
73	c3a9iA	Alignment	not modelled	68.8	14	PDB header: transferase/transferase inhibitor Chain: A: PDB Molecule: homocitrate synthase; PDBTitle: crystal structure of homocitrate synthase from thermus thermophilus2 complexed with lys
74	c3lotC	Alignment	not modelled	68.3	14	PDB header: structure genomics, unknown function Chain: C: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of protein of unknown function (np_070038.1) from2 archaeoglobus fulgidus at 1.89 a resolution
75	d1o0ya	Alignment	not modelled	67.9	11	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
76	d1rvka1	Alignment	not modelled	67.6	13	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: D-glucarate dehydratase-like
77	c1ps9A	Alignment	not modelled	67.4	17	PDB header: oxidoreductase Chain: A: PDB Molecule: 2,4-dienoyl-coa reductase; PDBTitle: the crystal structure and reaction mechanism of e. coli 2,4-dienoyl2 coa reductase

78	c3ndcB	Alignment	not modelled	65.3	18	PDB header: transferase Chain: B: PDB Molecule: precocorrin-4 c(11)-methyltransferase; PDBTitle: crystal structure of precocorrin-4 c11-methyltransferase from2 rhodobacter capsulatus
79	c3bg5C	Alignment	not modelled	63.9	11	PDB header: ligase Chain: C: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of staphylococcus aureus pyruvate carboxylase
80	c4ot7A	Alignment	not modelled	63.6	11	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh:flavin oxidoreductase/nadh oxidase; PDBTitle: x-structure of a variant of ncr from zymomonas mobilis
81	c3bg3A	Alignment	not modelled	63.1	12	PDB header: ligase Chain: A: PDB Molecule: pyruvate carboxylase, mitochondrial; PDBTitle: crystal structure of human pyruvate carboxylase (missing the biotin2 carboxylase domain at the n-terminus)
82	c3oa3A	Alignment	not modelled	63.0	18	PDB header: lyase Chain: A: PDB Molecule: aldolase; PDBTitle: crystal structure of a putative deoxyribose-phosphate aldolase from2 coccidioides immitis
83	c4ay8B	Alignment	not modelled	62.5	12	PDB header: transferase Chain: B: PDB Molecule: methylcobalamin): coenzyme m methyltransferase; PDBTitle: semet-derivative of a methyltransferase from m. mazei
84	c1pjtB	Alignment	not modelled	62.2	25	PDB header: transferase/oxidoreductase/lyase Chain: B: PDB Molecule: siroheme synthase; PDBTitle: the structure of the ser128ala point-mutant variant of cysg, the2 multifunctional methyltransferase/dehydrogenase/ferrochelatae for3 siroheme synthesis
85	c6f73B	Alignment	not modelled	61.8	21	PDB header: flavoprotein Chain: B: PDB Molecule: mtvao615; PDBTitle: crystal structure of vao-type flavoprotein mtvao615 at ph 5.0 from2 myceliophthora thermophila c1
86	d1ps9a1	Alignment	not modelled	61.6	17	Fold: TIM beta/alpha-barrel Superfamily: FMN-linked oxidoreductases Family: FMN-linked oxidoreductases
87	c3no5C	Alignment	not modelled	60.2	10	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a pfam duf849 domain containing protein2 (reut_a1631) from ralstonia eutropha jmp134 at 1.90 a resolution
88	d1yx1a1	Alignment	not modelled	60.1	14	Fold: TIM beta/alpha-barrel Superfamily: Xylose isomerase-like Family: KguE-like
89	c3a24A	Alignment	not modelled	59.9	15	PDB header: hydrolase Chain: A: PDB Molecule: alpha-galactosidase; PDBTitle: crystal structure of bt1871 retaining glycosidase
90	c3bg3B	Alignment	not modelled	59.8	14	PDB header: ligase Chain: B: PDB Molecule: pyruvate carboxylase, mitochondrial; PDBTitle: crystal structure of human pyruvate carboxylase (missing the biotin2 carboxylase domain at the n-terminus)
91	c3gr7A	Alignment	not modelled	59.7	9	PDB header: oxidoreductase Chain: A: PDB Molecule: nadph dehydrogenase; PDBTitle: structure of oye from geobacillus kaustophilus, hexagonal crystal form
92	d1z41a1	Alignment	not modelled	59.3	8	Fold: TIM beta/alpha-barrel Superfamily: FMN-linked oxidoreductases Family: FMN-linked oxidoreductases
93	c4ml9A	Alignment	not modelled	59.1	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized tim barrel protein with the2 conserved phosphate binding site fromsebaldella termitidis
94	c5visB	Alignment	not modelled	58.9	16	PDB header: hydrolase,oxidoreductase Chain: B: PDB Molecule: dihydropteroate synthase; PDBTitle: 1.73 angstrom resolution crystal structure of dihydropteroate synthase2 (folp-smz_b27) from soil uncultured bacterium.
95	d1bxba	Alignment	not modelled	58.7	21	Fold: TIM beta/alpha-barrel Superfamily: Xylose isomerase-like Family: Xylose isomerase
96	c2y7eA	Alignment	not modelled	58.4	15	PDB header: lyase Chain: A: PDB Molecule: 3-keto-5-aminohexanoate cleavage enzyme; PDBTitle: crystal structure of the 3-keto-5-aminohexanoate cleavage enzyme2 (kce) from candidatus cloacamonas acidaminovorans (tetragonal form)
97	d1qt1a	Alignment	not modelled	57.7	19	Fold: TIM beta/alpha-barrel Superfamily: Xylose isomerase-like Family: Xylose isomerase
98	c3e02A	Alignment	not modelled	57.6	20	PDB header: metal binding protein Chain: A: PDB Molecule: uncharacterized protein duf849; PDBTitle: crystal structure of a duf849 family protein (bx_e_c0271) from2 burkholderia xenovorans lb400 at 1.90 a resolution
99	c3e49A	Alignment	not modelled	57.3	13	PDB header: metal binding protein Chain: A: PDB Molecule: uncharacterized protein duf849 with a tim barrel fold; PDBTitle: crystal structure of a prokaryotic domain of unknown function (duf849)2 with a tim barrel fold (bx_e_c0966) from burkholderia xenovorans lb4003 at 1.75 a resolution
100	c3khdC	Alignment	not modelled	56.9	12	PDB header: transferase Chain: C: PDB Molecule: pyruvate kinase; PDBTitle: crystal structure of pff1300w.
101	d1s4da	Alignment	not modelled	56.7	18	Fold: Tetrapyrrole methylase Superfamily: Tetrapyrrole methylase Family: Tetrapyrrole methylase
102	c4nc1F	Alignment	not modelled	56.5	10	PDB header: ligase Chain: E: PDB Molecule: pyruvate carboxylase;

102	c4qslE	Alignment	not modelled	56.5	10	PDBTitle: crystal structure of listeria monocytogenes pyruvate carboxylase PDB header: lyase
103	c3b4uB	Alignment	not modelled	56.4	19	Chain: B; PDB Molecule: dihydrodipicolinate synthase; PDBTitle: crystal structure of dihydrodipicolinate synthase from agrobacterium2 tumefaciens str. c58
104	d1xima	Alignment	not modelled	55.5	14	Fold: TIM beta/alpha-barrel Superfamily: Xylose isomerase-like Family: Xylose isomerase
105	c3u9iA	Alignment	not modelled	54.9	16	PDB header: isomerase Chain: A; PDB Molecule: mandelate racemase/muconate lactonizing enzyme, c-terminal PDBTitle: the crystal structure of mandelate racemase/muconate lactonizing2 enzyme from roseiflexus sp.
106	c3atyA	Alignment	not modelled	54.3	8	PDB header: oxidoreductase Chain: A; PDB Molecule: prostaglandin f2a synthase; PDBTitle: crystal structure of tcoye
107	c3qfeB	Alignment	not modelled	54.0	16	PDB header: lyase Chain: B; PDB Molecule: putative dihydrodipicolinate synthase family protein; PDBTitle: crystal structures of a putative dihydrodipicolinate synthase family2 protein from coccidioides immitis
108	c3chvA	Alignment	not modelled	54.0	13	PDB header: metal binding protein Chain: A; PDB Molecule: prokaryotic domain of unknown function (duf849) with a tim PDBTitle: crystal structure of a prokaryotic domain of unknown function (duf849)2 member (spoa0042) from silicibacter pomeroyi dss-3 at 1.45 a3 resolution
109	d1ajza	Alignment	not modelled	53.9	17	Fold: TIM beta/alpha-barrel Superfamily: Dihydropteroate synthetase-like Family: Dihydropteroate synthetase
110	c1zfyA	Alignment	not modelled	53.1	10	PDB header: oxidoreductase Chain: A; PDB Molecule: inosine monophosphate dehydrogenase; PDBTitle: inosine monophosphate dehydrogenase (impdh; ec 1.1.1.205) from2 streptococcus pyogenes
111	c3ngjC	Alignment	not modelled	53.0	13	PDB header: lyase Chain: C; PDB Molecule: deoxyribose-phosphate aldolase; PDBTitle: crystal structure of a putative deoxyribose-phosphate aldolase from2 entamoeba histolytica
112	c3h7uA	Alignment	not modelled	53.0	16	PDB header: oxidoreductase Chain: A; PDB Molecule: aldo-keto reductase; PDBTitle: crystal structure of the plant stress-response enzyme akr4c9
113	d1qwka	Alignment	not modelled	52.9	14	Fold: TIM beta/alpha-barrel Superfamily: NAD(P)-linked oxidoreductase Family: Aldo-keto reductases (NADP)
114	c3vndD	Alignment	not modelled	52.5	13	PDB header: lyase Chain: D; PDB Molecule: tryptophan synthase alpha chain; PDBTitle: crystal structure of tryptophan synthase alpha-subunit from the2 psychrophile shewanella frigidimarina k14-2
115	d1vcva1	Alignment	not modelled	52.3	20	Fold: TIM beta/alpha-barrel Superfamily: Aldolase Family: Class I aldolase
116	c2h90A	Alignment	not modelled	52.2	12	PDB header: oxidoreductase Chain: A; PDB Molecule: xenobiotic reductase a; PDBTitle: xenobiotic reductase a in complex with coumarin
117	c3lciA	Alignment	not modelled	51.9	12	PDB header: lyase Chain: A; PDB Molecule: n-acetylneuraminate lyase; PDBTitle: the d-sialic acid aldolase mutant v251w
118	c5ocsB	Alignment	not modelled	51.8	14	PDB header: flavoprotein Chain: B; PDB Molecule: putative nadh-dependent flavin oxidoreductase; PDBTitle: ene-reductase (er/oye) from ralstonia (cupriavidus) metallidurans
119	c6daoB	Alignment	not modelled	51.6	15	PDB header: lyase Chain: B; PDB Molecule: trans-o-hydroxybenzylidenepyruvate hydratase-aldolase; PDBTitle: nahe wt selenomethionine
120	c5uurA	Alignment	not modelled	51.3	22	PDB header: transferase Chain: A; PDB Molecule: dihydropteroate synthase; PDBTitle: xanthomonas albilineans dihydropteroate synthase with 4-aminobenzoic2 acid