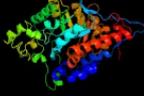
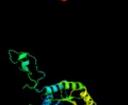
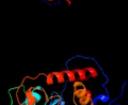


# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0694_(lldD1)_793338_794528
Date	Fri Jul 26 01:50:26 BST 2019
Unique Job ID	db5795dc523fb3b8

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c6dvhF_</a>	 Alignment		100.0	33	<b>PDB header:</b> oxidoreductase <b>Chain:</b> F; <b>PDB Molecule:</b> lactate 2-monooxygenase; <b>PDBTitle:</b> lactate monooxygenase from mycobacterium smegmatis - c203a mutant
2	<a href="#">c1fcbA_</a>	 Alignment		100.0	31	<b>PDB header:</b> oxidoreductase (ch-oh(d)-cytochrome(a)) <b>Chain:</b> A; <b>PDB Molecule:</b> flavocytochrome b2; <b>PDBTitle:</b> molecular structure of flavocytochrome b2 at 2.4 angstroms resolution
3	<a href="#">c2a7nA_</a>	 Alignment		100.0	33	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A; <b>PDB Molecule:</b> l(+)-mandelate dehydrogenase; <b>PDBTitle:</b> crystal structure of the g81a mutant of the active chimera of (s)-2 mandelate dehydrogenase
4	<a href="#">c1kbiB_</a>	 Alignment		100.0	30	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B; <b>PDB Molecule:</b> cytochrome b2; <b>PDBTitle:</b> crystallographic study of the recombinant flavin-binding domain of2 baker's yeast flavocytochrome b2: comparison with the intact wild-3 type enzyme
5	<a href="#">d1kbia1</a>	 Alignment		100.0	30	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
6	<a href="#">c2e77B_</a>	 Alignment		100.0	26	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B; <b>PDB Molecule:</b> lactate oxidase; <b>PDBTitle:</b> crystal structure of l-lactate oxidase with pyruvate complex
7	<a href="#">d1goxa_</a>	 Alignment		100.0	38	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
8	<a href="#">d1p4ca_</a>	 Alignment		100.0	34	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
9	<a href="#">c2rduA_</a>	 Alignment		100.0	37	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A; <b>PDB Molecule:</b> hydroxyacid oxidase 1; <b>PDBTitle:</b> crystal structure of human glycolate oxidase in complex with2 glyoxylate
10	<a href="#">d1tb3a1</a>	 Alignment		100.0	37	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
11	<a href="#">c6a0gA_</a>	 Alignment		100.0	33	<b>PDB header:</b> flavoprotein <b>Chain:</b> A; <b>PDB Molecule:</b> 4-hydroxymandelate oxidase; <b>PDBTitle:</b> the crystal structure of mandelate oxidase mutant y128f with b-2 phenyllactate

12	<a href="#">c2rdtA</a>	Alignment		100.0	42	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> hydroxyacid oxidase 1; <b>PDBTitle:</b> crystal structure of human glycolate oxidase (go) in complex with cdst
13	<a href="#">c2zrvC</a>	Alignment		100.0	20	<b>PDB header:</b> isomerase <b>Chain:</b> C: <b>PDB Molecule:</b> isopentenyl-diphosphate delta-isomerase; <b>PDBTitle:</b> crystal structure of sulfolobus shibatae isopentenyl diphosphate2 isomerase in complex with reduced fmn.
14	<a href="#">c4n02A</a>	Alignment		100.0	20	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> isopentenyl-diphosphate delta-isomerase; <b>PDBTitle:</b> type 2 idi from s. pneumoniae
15	<a href="#">c1jcnA</a>	Alignment		100.0	18	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine monophosphate dehydrogenase i; <b>PDBTitle:</b> binary complex of human type-i inosine monophosphate dehydrogenase2 with 6-cl-imp
16	<a href="#">c3sr7C</a>	Alignment		100.0	24	<b>PDB header:</b> isomerase <b>Chain:</b> C: <b>PDB Molecule:</b> isopentenyl-diphosphate delta-isomerase; <b>PDBTitle:</b> crystal structure of s. mutans isopentenyl pyrophosphate isomerase
17	<a href="#">d1p0ka</a>	Alignment		100.0	19	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
18	<a href="#">d1vcfa1</a>	Alignment		100.0	20	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
19	<a href="#">c6gk9C</a>	Alignment		100.0	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> C: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> inhibited structure of impdh from pseudomonas aeruginosa
20	<a href="#">d1jcna1</a>	Alignment		100.0	22	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Inosine monophosphate dehydrogenase (IMPDH) <b>Family:</b> Inosine monophosphate dehydrogenase (IMPDH)
21	<a href="#">c4zqrD</a>	Alignment	not modelled	100.0	26	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase,inosine-5'- <b>PDBTitle:</b> crystal structure of the catalytic domain of the inosine monophosphate2 dehydrogenase from mycobacterium tuberculosis
22	<a href="#">c4mjmD</a>	Alignment	not modelled	100.0	17	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of the inosine 5'-monophosphate dehydrogenase, with2 a short internal deletion of cbs domain from bacillus anthracis str.3 ames
23	<a href="#">c3khjE</a>	Alignment	not modelled	100.0	20	<b>PDB header:</b> oxidoreductase <b>Chain:</b> E: <b>PDB Molecule:</b> inosine-5-monophosphate dehydrogenase; <b>PDBTitle:</b> c. parvum inosine monophosphate dehydrogenase bound by inhibitor c64
24	<a href="#">c1ypfB</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> gmp reductase; <b>PDBTitle:</b> crystal structure of guac (ba5705) from bacillus anthracis at 1.8 a2 resolution
25	<a href="#">d1eepa</a>	Alignment	not modelled	100.0	20	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Inosine monophosphate dehydrogenase (IMPDH) <b>Family:</b> Inosine monophosphate dehydrogenase (IMPDH)
26	<a href="#">c2qr6A</a>	Alignment	not modelled	100.0	16	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> imp dehydrogenase/gmp reductase; <b>PDBTitle:</b> crystal structure of imp dehydrogenase/gmp reductase-like protein2 (np_599840.1) from corynebacterium glutamicum atcc 13032 kitasato at3 1.50 a resolution
27	<a href="#">c2cdh1</a>	Alignment	not modelled	100.0	47	<b>PDB header:</b> transferase <b>Chain:</b> 1: <b>PDB Molecule:</b> enoyl reductase; <b>PDBTitle:</b> architecture of the thermomyces lanuginosus fungal fatty2 acid synthase at 5 angstrom resolution. <b>PDB header:</b> oxidoreductase

28	<a href="#">c4avfD_</a>	Alignment	not modelled	100.0	21	<b>Chain:</b> D: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of pseudomonas aeruginosa inosine 5'-2 monophosphate dehydrogenase
29	<a href="#">c1vrdA_</a>	Alignment	not modelled	100.0	23	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of inosine-5'-monophosphate dehydrogenase (tm1347)2 from thermotoga maritima at 2.18 a resolution
30	<a href="#">c3ffsC_</a>	Alignment	not modelled	100.0	23	<b>PDB header:</b> oxidoreductase <b>Chain:</b> C: <b>PDB Molecule:</b> inosine-5-monophosphate dehydrogenase; <b>PDBTitle:</b> the crystal structure of cryptosporidium parvum inosine-5'-2 monophosphate dehydrogenase
31	<a href="#">d1vrda1</a>	Alignment	not modelled	100.0	25	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Inosine monophosphate dehydrogenase (IMPDH) <b>Family:</b> Inosine monophosphate dehydrogenase (IMPDH)
32	<a href="#">c4mz1A_</a>	Alignment	not modelled	100.0	20	<b>PDB header:</b> oxidoreductase/oxidoreductase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of the inosine 5'-monophosphate dehydrogenase, with2 a internal deletion of cbs domain from campylobacter jejuni complexed3 with inhibitor compound p12
33	<a href="#">c4q33F_</a>	Alignment	not modelled	100.0	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> F: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of inosine 5'-monophosphate dehydrogenase from2 clostridium perfringens complexed with imp and a110
34	<a href="#">d1jr1a1</a>	Alignment	not modelled	100.0	22	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Inosine monophosphate dehydrogenase (IMPDH) <b>Family:</b> Inosine monophosphate dehydrogenase (IMPDH)
35	<a href="#">c4ff0B_</a>	Alignment	not modelled	100.0	25	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> inosine 5'-monophosphate dehydrogenase from vibrio cholerae, deletion2 mutant, complexed with imp
36	<a href="#">c2a7rD_</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> gmp reductase 2; <b>PDBTitle:</b> crystal structure of human guanosine monophosphate2 reductase 2 (gmpr2)
37	<a href="#">d1uuma_</a>	Alignment	not modelled	100.0	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
38	<a href="#">d2cu0a1</a>	Alignment	not modelled	100.0	20	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Inosine monophosphate dehydrogenase (IMPDH) <b>Family:</b> Inosine monophosphate dehydrogenase (IMPDH)
39	<a href="#">c1me9A_</a>	Alignment	not modelled	100.0	20	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> inosine monophosphate dehydrogenase (impdh) from2 tritrichomonas foetus with imp bound
40	<a href="#">c4fxsA_</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> inosine 5'-monophosphate dehydrogenase from vibrio cholerae complexed2 with imp and mycophenolic acid
41	<a href="#">c2cu0B_</a>	Alignment	not modelled	100.0	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of inosine-5'-monophosphate dehydrogenase from2 pyrococcus horikoshii ot3
42	<a href="#">c4af0B_</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of cryptococcal inosine monophosphate2 dehydrogenase
43	<a href="#">c2fptA_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydroorotate dehydrogenase, mitochondrial; <b>PDBTitle:</b> dual binding mode of a novel series of dhodh inhibitors
44	<a href="#">c3r2gA_</a>	Alignment	not modelled	100.0	25	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine 5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of inosine 5' monophosphate dehydrogenase from2 legionella pneumophila
45	<a href="#">c4xtiA_</a>	Alignment	not modelled	100.0	20	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase,inosine-5'- <b>PDBTitle:</b> structure of imp dehydrogenase of ashbya gossypii with imp bound to2 the active site
46	<a href="#">c5upxA_</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of the catalytic domain of the inosine monophosphate2 dehydrogenase from listeria monocytogenes in the presence of3 xanthosine monophosphate
47	<a href="#">c1tv5A_</a>	Alignment	not modelled	100.0	11	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydroorotate dehydrogenase homolog, mitochondrial; <b>PDBTitle:</b> plasmodium falciparum dihydroorotate dehydrogenase with a bound2 inhibitor
48	<a href="#">d1tv5a1</a>	Alignment	not modelled	100.0	11	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
49	<a href="#">c4dqwb_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure analysis of pa3770

50	<a href="#">d1d3ga_</a>	Alignment	not modelled	100.0	18	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
51	<a href="#">c6b8sB_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> dihydroorotate dehydrogenase (quinone); <b>PDBTitle:</b> crystal structure of dihydroorotate dehydrogenase from helicobacter2 pylori with bound fmn
52	<a href="#">d1pvna1</a>	Alignment	not modelled	100.0	25	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Inosine monophosphate dehydrogenase (IMPDH) <b>Family:</b> Inosine monophosphate dehydrogenase (IMPDH)
53	<a href="#">c4xq6A_</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydroorotate dehydrogenase (quinone); <b>PDBTitle:</b> crystal structure of dihydroorotate dehydrogenase from mycobacterium2 tuberculosis
54	<a href="#">d1zfja1</a>	Alignment	not modelled	100.0	23	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Inosine monophosphate dehydrogenase (IMPDH) <b>Family:</b> Inosine monophosphate dehydrogenase (IMPDH)
55	<a href="#">d1ea0a2</a>	Alignment	not modelled	100.0	18	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
56	<a href="#">d1ofda2</a>	Alignment	not modelled	100.0	18	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
57	<a href="#">d1f76a_</a>	Alignment	not modelled	100.0	12	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
58	<a href="#">d1juba_</a>	Alignment	not modelled	100.0	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
59	<a href="#">c4z87B_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> structure of the imp dehydrogenase from ashbya gossypii bound to gdp
60	<a href="#">c3tsdA_</a>	Alignment	not modelled	100.0	17	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of inosine-5'-monophosphate dehydrogenase from2 bacillus anthracis str. ames complexed with xmp
61	<a href="#">d2b4ga1</a>	Alignment	not modelled	100.0	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
62	<a href="#">c3oixA_</a>	Alignment	not modelled	100.0	11	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> putative dihydroorotate dehydrogenase; dihydroorotate <b>PDBTitle:</b> crystal structure of the putative dihydroorotate dehydrogenase from2 streptococcus mutans
63	<a href="#">c2vdcF_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> oxidoreductase <b>Chain:</b> F: <b>PDB Molecule:</b> glutamate synthase [nadh] large chain; <b>PDBTitle:</b> the 9.5 a resolution structure of glutamate synthase from cryo-2 electron microscopy and its oligomerization behavior in solution:3 functional implications.
64	<a href="#">c5x8oA_</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine-5'-monophosphate dehydrogenase; <b>PDBTitle:</b> crystal structure of gmp reductase from trypanosoma brucei with2 guanosine 5'-triphosphate
65	<a href="#">c1lm1A_</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> ferredoxin-dependent glutamate synthase; <b>PDBTitle:</b> structural studies on the synchronization of catalytic centers in2 glutamate synthase: native enzyme
66	<a href="#">c3gyeA_</a>	Alignment	not modelled	100.0	14	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydroorotate dehydrogenase, putative; <b>PDBTitle:</b> didydroorotate dehydrogenase from leishmania major
67	<a href="#">d1ep3a_</a>	Alignment	not modelled	100.0	14	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
68	<a href="#">c1zfjA_</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> inosine monophosphate dehydrogenase; <b>PDBTitle:</b> inosine monophosphate dehydrogenase (impdh; ec 1.1.1.205) from2 streptococcus pyogenes
69	<a href="#">d1gtea2</a>	Alignment	not modelled	99.9	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
70	<a href="#">c1gthD_</a>	Alignment	not modelled	99.9	15	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> dihydropyrimidine dehydrogenase; <b>PDBTitle:</b> dihydropyrimidine dehydrogenase (dpd) from pig, ternary complex with2 nadph and 5-iodouracil
71	<a href="#">c6bkaA_</a>	Alignment	not modelled	99.9	14	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> nitronate monooxygenase; <b>PDBTitle:</b> crystal structure of nitronate monooxygenase from cyberlindnera2 saturnus
72	<a href="#">c2qjlA_</a>	Alignment	not modelled	99.9	27	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> hypothetical protein pa1024; <b>PDBTitle:</b> crystal structure of 2-nitropropane dioxygenase
73	<a href="#">c5ismF_</a>	Alignment	not modelled	99.9	26	<b>PDB header:</b> oxidoreductase <b>Chain:</b> F: <b>PDB Molecule:</b> fmn-dependent nitronate monooxygenase; <b>PDBTitle:</b> crystal structure of nitronate monooxygenase (so_0471) from shewanella2 oneidensis mr-1
74	<a href="#">c3bw2A_</a>	Alignment	not modelled	99.9	20	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> 2-nitropropane dioxygenase; <b>PDBTitle:</b> crystal structures and site-directed mutagenesis study of nitroalkane2 oxidase from streptomyces ansochromogenes <b>PDB header:</b> oxidoreductase

75	<a href="#">c4iq1B_</a>	Alignment	not modelled	99.8	22	<b>Chain:</b> B: <b>PDB Molecule:</b> enoyl-(acyl-carrier-protein) reductase ii; <b>PDBTitle:</b> crystal structure of porphyromonas gingivalis enoyl-acp reductase ii2 (fabk) with cofactors nadph and fmn
76	<a href="#">c2z6jB_</a>	Alignment	not modelled	99.8	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> trans-2-enoyl-acp reductase ii; <b>PDBTitle:</b> crystal structure of s. pneumoniae enoyl-acyl carrier2 protein reductase (fabk) in complex with an inhibitor
77	<a href="#">c3bo9B_</a>	Alignment	not modelled	99.8	25	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> putative nitroalkan dioxygenase; <b>PDBTitle:</b> crystal structure of putative nitroalkan dioxygenase (tm0800) from2 thermotoga maritima at 2.71 a resolution
78	<a href="#">c2htmB_</a>	Alignment	not modelled	99.8	16	<b>PDB header:</b> biosynthetic protein <b>Chain:</b> B: <b>PDB Molecule:</b> thiazole biosynthesis protein thig; <b>PDBTitle:</b> crystal structure of ttha0676 from thermus thermophilus hb8
79	<a href="#">c5n2pA_</a>	Alignment	not modelled	99.8	14	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophan synthase alpha chain; <b>PDBTitle:</b> sulfolobus solfataricus tryptophan synthase a
80	<a href="#">c4n6eA_</a>	Alignment	not modelled	99.7	16	<b>PDB header:</b> lyase/biosynthetic protein <b>Chain:</b> A: <b>PDB Molecule:</b> putative thiosugar synthase; <b>PDBTitle:</b> crystal structure of amycolatopsis orientalis bexx/cyso complex
81	<a href="#">c5z9yB_</a>	Alignment	not modelled	99.7	19	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> thiazole synthase; <b>PDBTitle:</b> crystal structure of mycobacterium tuberculosis thiazole synthase2 (thig) complexed with dxp
82	<a href="#">c5zknA_</a>	Alignment	not modelled	99.7	17	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> putative n-acetylmannosamine-6-phosphate 2-epimerase; <b>PDBTitle:</b> structure of n-acetylmannosamine-6-phosphate 2-epimerase from2 fusobacterium nucleatum
83	<a href="#">c6ei9A_</a>	Alignment	not modelled	99.7	17	<b>PDB header:</b> flavoprotein <b>Chain:</b> A: <b>PDB Molecule:</b> trna-dihydrouridine synthase b; <b>PDBTitle:</b> crystal structure of e. coli trna-dihydrouridine synthase b (dusb)
84	<a href="#">c4z38B_</a>	Alignment	not modelled	99.6	13	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> mlna; <b>PDBTitle:</b> crystal structure of enoyl reductase domain of mlna from the2 macrolactin biosynthesis cluster from bacillus amyloliquefaciens
85	<a href="#">c2w6rA_</a>	Alignment	not modelled	99.6	11	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> imidazole glycerol phosphate synthase subunit <b>PDBTitle:</b> crystal structure of an artificial (ba)8-barrel protein2 designed from identical half barrels
86	<a href="#">d1y0ea_</a>	Alignment	not modelled	99.6	14	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phoshate binding barrel <b>Family:</b> NanE-like
87	<a href="#">c4z9rA_</a>	Alignment	not modelled	99.5	14	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> omega-3 polyunsaturated fatty acid synthase subunit pfad; <b>PDBTitle:</b> crystal structure of pfad from shewanella oneidensis in complex with2 nad+ determined by in-situ diffraction.
88	<a href="#">c3qjaA_</a>	Alignment	not modelled	99.5	17	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> indole-3-glycerol phosphate synthase; <b>PDBTitle:</b> crystal structure of the mycobacterium tuberculosis indole-3-glycerol2 phosphate synthase (trpc) in apo form
89	<a href="#">d1yxa1</a>	Alignment	not modelled	99.5	13	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phoshate binding barrel <b>Family:</b> NanE-like
90	<a href="#">c3gr7A_</a>	Alignment	not modelled	99.5	15	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> nadph dehydrogenase; <b>PDBTitle:</b> structure of oye from geobacillus kaustophilus, hexagonal crystal form
91	<a href="#">c6bmaA_</a>	Alignment	not modelled	99.5	16	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> indole-3-glycerol phosphate synthase; <b>PDBTitle:</b> the crystal structure of indole-3-glycerol phosphate synthase from2 campylobacter jejuni subsp. jejuni nctc 11168
92	<a href="#">c3w9zA_</a>	Alignment	not modelled	99.5	23	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> trna-dihydrouridine synthase c; <b>PDBTitle:</b> crystal structure of dusc
93	<a href="#">d1vhna_</a>	Alignment	not modelled	99.4	18	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
94	<a href="#">c4xp7A_</a>	Alignment	not modelled	99.4	24	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> trna-dihydrouridine(20) synthase [nad(p+)]-like; <b>PDBTitle:</b> crystal structure of human trna dihydrouridine synthase 2
95	<a href="#">c3tsmB_</a>	Alignment	not modelled	99.4	16	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> indole-3-glycerol phosphate synthase; <b>PDBTitle:</b> crystal structure of indole-3-glycerol phosphate synthase from2 brucella melitensis
96	<a href="#">d1xm3a_</a>	Alignment	not modelled	99.4	19	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> ThiG-like <b>Family:</b> ThiG-like
97	<a href="#">d1geqa_</a>	Alignment	not modelled	99.4	15	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phoshate binding barrel <b>Family:</b> Tryptophan biosynthesis enzymes
98	<a href="#">c3q58A_</a>	Alignment	not modelled	99.4	17	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> n-acetylmannosamine-6-phosphate 2-epimerase; <b>PDBTitle:</b> structure of n-acetylmannosamine-6-phosphate epimerase from salmonella2 enterica
99	<a href="#">c3hf3A_</a>	Alignment	not modelled	99.4	16	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> chromate reductase; <b>PDBTitle:</b> old yellow enzyme from thermus scotoductus sa-01
100	<a href="#">c3h0vD_</a>	Alignment	not modelled	99.4	16	<b>PDB header:</b> oxidoreductase/rna <b>Chain:</b> D: <b>PDB Molecule:</b> trna-dihydrouridine synthase;

100	<a href="#">c3uvvD_</a>	Alignment	not modelled	99.4	10	<b>PDBTitle:</b> trna-dihydrouridine synthase from thermus thermophilus in complex with2 trna <b>PDB header:</b> isomerase
101	<a href="#">c3igsB_</a>	Alignment	not modelled	99.4	20	<b>Chain:</b> B; <b>PDB Molecule:</b> n-acetylmannosamine-6-phosphate 2-epimerase 2; <b>PDBTitle:</b> structure of the salmonella enterica n-acetylmannosamine-6-phosphate2 2-epimerase
102	<a href="#">c3kruC_</a>	Alignment	not modelled	99.3	13	<b>PDB header:</b> oxidoreductase <b>Chain:</b> C; <b>PDB Molecule:</b> nadh:flavin oxidoreductase/nadh oxidase; <b>PDBTitle:</b> crystal structure of the thermostable old yellow enzyme from2 thermoanaerobacter pseudethanolicus e39
103	<a href="#">c5zjnB_</a>	Alignment	not modelled	99.3	17	<b>PDB header:</b> isomerase <b>Chain:</b> B; <b>PDB Molecule:</b> putative n-acetylmannosamine-6-phosphate 2-epimerase; <b>PDBTitle:</b> structure of n-acetylmannosamine-6-phosphate-2-epimerase from vibrio2 cholerae with n-acetylmannosamine-6-phosphate
104	<a href="#">d1rd5a_</a>	Alignment	not modelled	99.3	21	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phoshate binding barrel <b>Family:</b> Tryptophan biosynthesis enzymes
105	<a href="#">d1ps9a1</a>	Alignment	not modelled	99.3	12	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
106	<a href="#">c4utwB_</a>	Alignment	not modelled	99.3	13	<b>PDB header:</b> isomerase <b>Chain:</b> B; <b>PDB Molecule:</b> putative n-acetylmannosamine-6-phosphate 2-epimerase; <b>PDBTitle:</b> structural characterisation of nane, mannac6p c2 epimerase,2 from clostridium perfringens
107	<a href="#">c2c3zA_</a>	Alignment	not modelled	99.3	16	<b>PDB header:</b> lyase <b>Chain:</b> A; <b>PDB Molecule:</b> indole-3-glycerol phosphate synthase; <b>PDBTitle:</b> crystal structure of a truncated variant of indole-3-2 glycerol phosphate synthase from sulfolobus solfataricus
108	<a href="#">c2h90A_</a>	Alignment	not modelled	99.3	15	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A; <b>PDB Molecule:</b> xenobiotic reductase a; <b>PDBTitle:</b> xenobiotic reductase a in complex with coumarin
109	<a href="#">d1z41a1</a>	Alignment	not modelled	99.2	14	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
110	<a href="#">d1a53a_</a>	Alignment	not modelled	99.2	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phoshate binding barrel <b>Family:</b> Tryptophan biosynthesis enzymes
111	<a href="#">d1djqa1</a>	Alignment	not modelled	99.2	10	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
112	<a href="#">c4ot7A_</a>	Alignment	not modelled	99.1	11	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A; <b>PDB Molecule:</b> nadh:flavin oxidoreductase/nadh oxidase; <b>PDBTitle:</b> x-structure of a variant of ncr from zymomonas mobilis
113	<a href="#">c4cw5B_</a>	Alignment	not modelled	99.1	16	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B; <b>PDB Molecule:</b> dfna; <b>PDBTitle:</b> crystal structure of the enoyl reductase domain of dfna2 from bacillus amyloliquefaciens
114	<a href="#">d1wa3a1</a>	Alignment	not modelled	99.1	15	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Aldolase <b>Family:</b> Class I aldolase
115	<a href="#">d1vc4a_</a>	Alignment	not modelled	99.1	19	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phoshate binding barrel <b>Family:</b> Tryptophan biosynthesis enzymes
116	<a href="#">c5ocsB_</a>	Alignment	not modelled	99.1	13	<b>PDB header:</b> flavoprotein <b>Chain:</b> B; <b>PDB Molecule:</b> putative nadh-depndent flavin oxidoreductase; <b>PDBTitle:</b> ene-reductase (er/oye) from ralstonia (cupriavidus) metallidurans
117	<a href="#">d1wv2a_</a>	Alignment	not modelled	99.1	17	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> ThiG-like <b>Family:</b> ThiG-like
118	<a href="#">d1qopa_</a>	Alignment	not modelled	99.1	21	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phoshate binding barrel <b>Family:</b> Tryptophan biosynthesis enzymes
119	<a href="#">c2v82A_</a>	Alignment	not modelled	99.1	14	<b>PDB header:</b> lyase <b>Chain:</b> A; <b>PDB Molecule:</b> 2-dehydro-3-deoxy-6-phosphogalactonate aldolase; <b>PDBTitle:</b> kdpgal complexed to kdpgal
120	<a href="#">c1ps9A_</a>	Alignment	not modelled	99.1	14	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A; <b>PDB Molecule:</b> 2,4-dienoyl-coa reductase; <b>PDBTitle:</b> the crystal structure and reaction mechanism of e. coli 2,4-dienoyl2 coa reductase