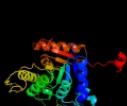
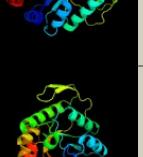
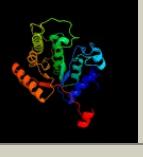
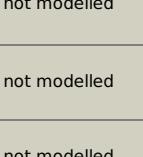


# Phyre<sup>2</sup>

Email	mdejesus@rockefeller.edu
Description	RVBD0940c_(-)_1050597_I051463
Date	Fri Jul 26 01:50:53 BST 2019
Unique Job ID	d272b3ba188f9f58

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2b81D_	Alignment		100.0	17	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> luciferase-like monooxygenase; <b>PDBTitle:</b> crystal structure of the luciferase-like monooxygenase from bacillus2 cereus
2	d1luca_	Alignment		100.0	18	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> Bacterial luciferase (alkanal monooxygenase)
3	d1tvla_	Alignment		100.0	21	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> Ssud-like monooxygenases
4	c1tvIA_	Alignment		100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> protein ytnj; <b>PDBTitle:</b> structure of ytnj from bacillus subtilis
5	c3raoB_	Alignment		100.0	29	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> putative luciferase-like monooxygenase; <b>PDBTitle:</b> crystal structure of the luciferase-like monooxygenase from bacillus2 cereus atcc 10987.
6	c1z69D_	Alignment		100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> coenzyme f420-dependent n(5),n(10)- <b>PDBTitle:</b> crystal structure of methylenetetrahydromethanopterin2 reductase (mer) in complex with coenzyme f420
7	c3sdoB_	Alignment		100.0	24	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> nitrilotriacetate monooxygenase; <b>PDBTitle:</b> structure of a nitrilotriacetate monooxygenase from burkholderia2 pseudomallei
8	d1lezwa_	Alignment		100.0	21	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> F420 dependent oxidoreductases
9	c5tlcA_	Alignment		100.0	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> dibenzothiophene desulfurization enzyme a; <b>PDBTitle:</b> crystal structure of bdsa from bacillus subtilis wu-s2b
10	d1lucb_	Alignment		100.0	14	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> Bacterial luciferase (alkanal monooxygenase)
11	c2wgkA_	Alignment		100.0	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> 3,6-diketocamphane 1,6 monooxygenase; <b>PDBTitle:</b> type ii baeyer-villiger monooxygenase oxygenating2 constituent of 3,6-diketocamphane 1,6 monooxygenase from3 pseudomonas putida

12	<a href="#">c3c8nB</a>	Alignment		100.0	23	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> probable f420-dependent glucose-6-phosphate dehydrogenase <b>PDBTitle:</b> crystal structure of apo-fgd1 from mycobacterium tuberculosis
13	<a href="#">c5wanA</a>	Alignment		100.0	23	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> pyrimidine monooxygenase ruta; <b>PDBTitle:</b> crystal structure of a flavoenzyme ruta in the pyrimidine catabolic2 pathway
14	<a href="#">c6friD</a>	Alignment		100.0	14	<b>PDB header:</b> oxidoreductase <b>Chain:</b> D: <b>PDB Molecule:</b> alkanal monooxygenase beta chain; <b>PDBTitle:</b> structure of luxb from photobacterium leiognathi
15	<a href="#">d1nqka</a>	Alignment		100.0	22	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> Ssud-like monooxygenases
16	<a href="#">d1rhca</a>	Alignment		100.0	18	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> F420 dependent oxidoreductases
17	<a href="#">c5w4zA</a>	Alignment		100.0	21	<b>PDB header:</b> flavoprotein <b>Chain:</b> A: <b>PDB Molecule:</b> riboflavin lyase; <b>PDBTitle:</b> crystal structure of riboflavin lyase (rcae) with modified fmn and2 substrate riboflavin
18	<a href="#">c3b9nB</a>	Alignment		100.0	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> alkane monooxygenase; <b>PDBTitle:</b> crystal structure of long-chain alkane monooxygenase (lada)
19	<a href="#">d1f07a</a>	Alignment		100.0	21	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> F420 dependent oxidoreductases
20	<a href="#">c6ak1B</a>	Alignment		100.0	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> dimethyl-sulfide monooxygenase; <b>PDBTitle:</b> crystal structure of dmoa from hyphomicrobium sulfonivorans
21	<a href="#">c2i7gA</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> monooxygenase; <b>PDBTitle:</b> crystal structure of monooxygenase from agrobacterium tumefaciens
22	<a href="#">c5dqpa</a>	Alignment	not modelled	100.0	20	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> edta monooxygenase; <b>PDBTitle:</b> edta monooxygenase (emoa) from chelatavorans sp. bnc1
23	<a href="#">d1nfpa</a>	Alignment	not modelled	99.7	13	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> Non-fluorescent flavoprotein (luxF, FP390)
24	<a href="#">d1fvpa</a>	Alignment	not modelled	97.3	13	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Bacterial luciferase-like <b>Family:</b> Non-fluorescent flavoprotein (luxF, FP390)
25	<a href="#">c3qy6A</a>	Alignment	not modelled	89.7	18	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosine-protein phosphatase ywqe; <b>PDBTitle:</b> crystal structures of ywqe from bacillus subtilis and cpsb from2 streptococcus pneumoniae, unique metal-dependent tyrosine3 phosphatases
26	<a href="#">c3wqoB</a>	Alignment	not modelled	82.9	15	<b>PDB header:</b> unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> uncharacterized protein mj1311; <b>PDBTitle:</b> crystal structure of d-tagatose 3-epimerase-like protein
27	<a href="#">c2wjeA</a>	Alignment	not modelled	76.2	9	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosine-protein phosphatase cpsb; <b>PDBTitle:</b> crystal structure of the tyrosine phosphatase cps4b from2 stiptococcus pneumoniae tigr4.
28	<a href="#">d1o5ka</a>	Alignment	not modelled	68.0	19	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Aldolase <b>Family:</b> Class I aldolase
29	<a href="#">d1xp3a1</a>	Alignment	not modelled	67.3	10	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Xylose isomerase-like

						<b>Family:</b> Endonuclease IV
30	<a href="#">c3b0vD_</a>	Alignment	not modelled	66.7	25	<b>PDB header:</b> oxidoreductase/rna <b>Chain:</b> D: <b>PDB Molecule:</b> tRNA-dihydrouridine synthase; <b>PDBTitle:</b> tRNA-dihydrouridine synthase from thermus thermophilus in complex with 2 tRNA
31	<a href="#">c6ei9A_</a>	Alignment	not modelled	65.9	14	<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)
32	<a href="#">c3fkkaA_</a>	Alignment	not modelled	64.7	8	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> l-2-keto-3-deoxyarabonate dehydratase; <b>PDBTitle:</b> structure of l-2-keto-3-deoxyarabonate dehydratase
33	<a href="#">c3aamA_</a>	Alignment	not modelled	63.1	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> endonuclease iv; <b>PDBTitle:</b> crystal structure of endonuclease iv from thermus thermophilus hb8
34	<a href="#">c3d0cB_</a>	Alignment	not modelled	62.0	18	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> dihydrodipicolinate synthase; <b>PDBTitle:</b> crystal structure of dihydrodipicolinate synthase from oceanobacillus 2 iheyensis at 1.9 a resolution
35	<a href="#">c3w9zA_</a>	Alignment	not modelled	60.1	10	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> tRNA-dihydrouridine synthase c; <b>PDBTitle:</b> crystal structure of dusc
36	<a href="#">d2a6na1</a>	Alignment	not modelled	56.9	9	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Aldolase <b>Family:</b> Class I aldolase
37	<a href="#">c2zvrA_</a>	Alignment	not modelled	56.3	20	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein tm_0416; <b>PDBTitle:</b> crystal structure of a d-tagatose 3-epimerase-related protein from2 thermotoga maritima
38	<a href="#">c3na8A_</a>	Alignment	not modelled	55.7	10	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> putative dihydrodipicolinate synthetase; <b>PDBTitle:</b> crystal structure of a putative dihydrodipicolinate synthetase from2 pseudomonas aeruginosa
39	<a href="#">c3qfeB_</a>	Alignment	not modelled	54.6	9	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> putative dihydrodipicolinate synthase family protein; <b>PDBTitle:</b> crystal structures of a putative dihydrodipicolinate synthase family2 protein from coccidioides immitis
40	<a href="#">d1xxxal</a>	Alignment	not modelled	54.5	22	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Aldolase <b>Family:</b> Class I aldolase
41	<a href="#">d2f1qa1</a>	Alignment	not modelled	54.4	11	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Aldolase <b>Family:</b> Gat-Z-like
42	<a href="#">c2r8wb_</a>	Alignment	not modelled	53.7	19	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> agr_c_1641p; <b>PDBTitle:</b> the crystal structure of dihydrodipicolinate synthase (atu0899) from2 agrobacterium tumefaciens str. c58
43	<a href="#">c3e96B_</a>	Alignment	not modelled	53.7	24	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> dihydrodipicolinate synthase; <b>PDBTitle:</b> crystal structure of dihydrodipicolinate synthase from bacillus2 clausii
44	<a href="#">c3fa4D_</a>	Alignment	not modelled	51.7	10	<b>PDB header:</b> lyase <b>Chain:</b> D: <b>PDB Molecule:</b> 2,3-dimethylmalate lyase; <b>PDBTitle:</b> crystal structure of 2,3-dimethylmalate lyase, a pep mutase/isocitrate2 lyase superfamily member, triclinic crystal form
45	<a href="#">d1xcfa_</a>	Alignment	not modelled	50.5	16	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Ribulose-phosphate binding barrel <b>Family:</b> Tryptophan biosynthesis enzymes
46	<a href="#">c5n2pA_</a>	Alignment	not modelled	49.1	7	<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
47	<a href="#">c4n4qD_</a>	Alignment	not modelled	49.0	13	<b>PDB header:</b> lyase <b>Chain:</b> D: <b>PDB Molecule:</b> acylneuraminate lyase; <b>PDBTitle:</b> crystal structure of N-acetylneuraminate lyase from mycoplasma2 synoviae, crystal form ii
48	<a href="#">c3dcpb_</a>	Alignment	not modelled	48.8	13	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> histidinol-phosphatase; <b>PDBTitle:</b> crystal structure of the putative histidinol phosphatase hisk from2 listeria monocytogenes. northeast structural genomics consortium3 target lmr141.
49	<a href="#">c1ydnA_</a>	Alignment	not modelled	47.6	10	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> hydroxymethylglutaryl-coa lyase; <b>PDBTitle:</b> crystal structure of the hmg-coa lyase from brucella melitensis,2 northeast structural genomics target lr35.
50	<a href="#">c3pueA_</a>	Alignment	not modelled	46.6	15	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydrodipicolinate synthase; <b>PDBTitle:</b> crystal structure of the complex of dihydrodipicolinate synthase from2 acinetobacter baumannii with lysine at 2.6a resolution
51	<a href="#">c6mqhA_</a>	Alignment	not modelled	46.4	15	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> 4-hydroxy-tetrahydrodipicolinate synthase; <b>PDBTitle:</b> crystal structure of 4-hydroxy-tetrahydrodipicolinate synthase (htpa2 synthase) from burkholderia mallei
52	<a href="#">c4xkyC_</a>	Alignment	not modelled	42.1	15	<b>PDB header:</b> lyase <b>Chain:</b> C: <b>PDB Molecule:</b> dihydrodipicolinate synthase; <b>PDBTitle:</b> structure of dihydrodipicolinate synthase from the commensal bacterium2 bacteroides thetaiotaomicron at 2.1 a resolution
53	<a href="#">d1z4la1</a>	Alignment	not modelled	41.6	24	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
54	<a href="#">c3daqB_</a>	Alignment	not modelled	40.1	15	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> dihydrodipicolinate synthase; <b>PDBTitle:</b> crystal structure of dihydrodipicolinate synthase from methicillin-2 resistant staphylococcus aureus

55	<a href="#">c5dxxA</a>	Alignment	not modelled	40.0	29	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> artemisinic aldehyde delta(11(13)) reductase; <b>PDBTitle:</b> crystal structure of dbr2
56	<a href="#">d1oyaa</a>	Alignment	not modelled	39.9	33	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
57	<a href="#">c2r94B</a>	Alignment	not modelled	39.8	29	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> 2-keto-3-deoxy-(6-phospho-)gluconate aldolase; <b>PDBTitle:</b> crystal structure of kd(p)ga from t.tenax
58	<a href="#">d1vjia</a>	Alignment	not modelled	39.4	24	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
59	<a href="#">c2hmca</a>	Alignment	not modelled	39.1	11	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> dihydronicotinate synthase; <b>PDBTitle:</b> the crystal structure of dihydronicotinate synthase dapa from2 agrobacterium tumefaciens
60	<a href="#">c3kwsB</a>	Alignment	not modelled	39.0	10	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> putative sugar isomerase; <b>PDBTitle:</b> crystal structure of putative sugar isomerase (yp_001305149.1) from2 parabacteroides distasonis atcc 8503 at 1.68 a resolution
61	<a href="#">c3cpkB</a>	Alignment	not modelled	38.2	18	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> dihydronicotinate synthetase; <b>PDBTitle:</b> the crystal structure of corynebacterium glutamicum2 dihydronicotinate synthase to 2.2 a resolution
62	<a href="#">c3b4uB</a>	Alignment	not modelled	37.6	11	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> dihydronicotinate synthase; <b>PDBTitle:</b> crystal structure of dihydronicotinate synthase from agrobacterium2 tumefaciens str. c58
63	<a href="#">c3gr7A</a>	Alignment	not modelled	36.9	24	<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
64	<a href="#">c3eb2A</a>	Alignment	not modelled	36.8	14	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> putative dihydronicotinate synthetase; <b>PDBTitle:</b> crystal structure of dihydronicotinate synthase from2 rhodopseudomonas palustris at 2.0a resolution
65	<a href="#">c4gx9A</a>	Alignment	not modelled	36.8	27	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> dna polymerase iii subunit epsilon,dna polymerase iii <b>PDBTitle:</b> crystal structure of a dna polymerase iii alpha-epsilon chimera
66	<a href="#">c1ydoC</a>	Alignment	not modelled	36.0	20	<b>PDB header:</b> lyase <b>Chain:</b> C: <b>PDB Molecule:</b> hmg-coa lyase; <b>PDBTitle:</b> crystal structure of the bacillus subtilis hmg-coa lyase, northeast2 structural genomics target sr181.
67	<a href="#">c2yz5B</a>	Alignment	not modelled	35.7	21	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> histidinol phosphatase; <b>PDBTitle:</b> histidinol phosphate phosphatase complexed with phosphate
68	<a href="#">c4i7vD</a>	Alignment	not modelled	34.4	18	<b>PDB header:</b> biosynthetic protein <b>Chain:</b> D: <b>PDB Molecule:</b> dihydronicotinate synthase; <b>PDBTitle:</b> agrobacterium tumefaciens dhds with pyruvate
69	<a href="#">c2nuxB</a>	Alignment	not modelled	34.2	7	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> 2-keto-3-deoxygluconate/2-keto-3-deoxy-6-phospho gluconate <b>PDBTitle:</b> 2-keto-3-deoxygluconate aldolase from sulfobolus acidocaldarium2 native structure in p6522 at 2.5 a resolution
70	<a href="#">c6arhA</a>	Alignment	not modelled	33.6	14	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> n-acetylneuraminate lyase; <b>PDBTitle:</b> crystal structure of human nal at a resolution of 1.6 angstrom
71	<a href="#">c3noeA</a>	Alignment	not modelled	33.3	8	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydronicotinate synthase; <b>PDBTitle:</b> crystal structure of dihydronicotinate synthase from pseudomonas2 aeruginosa
72	<a href="#">c2yb1A</a>	Alignment	not modelled	33.2	21	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> amidohydrolase; <b>PDBTitle:</b> structure of an amidohydrolase from chromobacterium violaceum (efi2 target efi-500202) with bound mn, amp and phosphate.
73	<a href="#">d1oy0a</a>	Alignment	not modelled	33.1	29	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Phosphoenolpyruvate/pyruvate domain <b>Family:</b> Ketopantoate hydroxymethyltransferase PanB
74	<a href="#">d2q02a1</a>	Alignment	not modelled	33.1	7	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Xylose isomerase-like <b>Family:</b> loli-like
75	<a href="#">c3bi8A</a>	Alignment	not modelled	33.0	16	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydronicotinate synthase; <b>PDBTitle:</b> structure of dihydronicotinate synthase from clostridium2 botulinum
76	<a href="#">c2ekcA</a>	Alignment	not modelled	32.8	27	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophan synthase alpha chain; <b>PDBTitle:</b> structural study of project id aq_1548 from aquifex aeolicus vf5
77	<a href="#">d1q45a</a>	Alignment	not modelled	32.6	29	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
78	<a href="#">c4jicB</a>	Alignment	not modelled	32.6	32	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> gtn reductase; <b>PDBTitle:</b> glycerol trinitrate reductase nera from agrobacterium radiobacter
79	<a href="#">c4uxdC</a>	Alignment	not modelled	32.4	6	<b>PDB header:</b> lyase <b>Chain:</b> C: <b>PDB Molecule:</b> 2-dehydro-3-deoxy-d-gluconate/2-dehydro-3-deoxy- <b>PDBTitle:</b> 2-keto 3-deoxygluconate aldolase from picrophilus torridus

80	<a href="#">d1gwja</a>	Alignment	not modelled	32.3	24	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
81	<a href="#">c3I5aA</a>	Alignment	not modelled	32.2	24	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> nadh/flavin oxidoreductase/nadh oxidase; <b>PDBTitle:</b> crystal structure of a probable nadh-dependent flavin oxidoreductase2 from staphylococcus aureus
82	<a href="#">c2ze3A</a>	Alignment	not modelled	32.1	31	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> dfa0005; <b>PDBTitle:</b> crystal structure of dfa0005 complexed with alpha-ketoglutarate: a2 novel member of the icl/pepm superfamily from alkali-tolerant3 deinococcus fusicus
83	<a href="#">d1icpa</a>	Alignment	not modelled	31.6	24	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
84	<a href="#">c3navB</a>	Alignment	not modelled	31.6	20	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> tryptophan synthase alpha chain; <b>PDBTitle:</b> crystal structure of an alpha subunit of tryptophan synthase from2 vibrio cholerae o1 biovar el tor str. n16961
85	<a href="#">c4lsbA</a>	Alignment	not modelled	31.1	18	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> lyase/mutase; <b>PDBTitle:</b> crystal structure of a putative lyase/mutase from burkholderia2 cenocepacia j2315
86	<a href="#">c2h90A</a>	Alignment	not modelled	31.0	19	<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
87	<a href="#">c4a3uB</a>	Alignment	not modelled	30.8	26	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> nadh:flavin oxidoreductase/nadh oxidase; <b>PDBTitle:</b> x-structure of the old yellow enzyme homologue from zymomonas mobilis2 (nrc)
88	<a href="#">c4b5nA</a>	Alignment	not modelled	30.8	22	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> oxidoreductase, fmn-binding; <b>PDBTitle:</b> crystal structure of oxidized shewanella yellow enzyme 4 (sye4)
89	<a href="#">c4df2A</a>	Alignment	not modelled	30.7	25	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> nadph dehydrogenase; <b>PDBTitle:</b> p. stipitis oye2.6 complexed with p-chlorophenol
90	<a href="#">c3g0sA</a>	Alignment	not modelled	30.6	10	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> dihydrodipicolinate synthase; <b>PDBTitle:</b> dihydrodipicolinate synthase from salmonella typhimurium lt2
91	<a href="#">d1dqj1</a>	Alignment	not modelled	30.4	29	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
92	<a href="#">c3lyeA</a>	Alignment	not modelled	30.4	27	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> oxaloacetate acetyl hydrolase; <b>PDBTitle:</b> crystal structure of oxaloacetate acetylhydrolase
93	<a href="#">c6e1jb</a>	Alignment	not modelled	29.8	18	<b>PDB header:</b> plant protein <b>Chain:</b> B: <b>PDB Molecule:</b> 2-isopropylmalate synthase, a genome specific 1; <b>PDBTitle:</b> crystal structure of methylthioalkylmalate synthase (bjumam1.1) from2 brassica juncea
94	<a href="#">c4icnB</a>	Alignment	not modelled	29.7	18	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> dihydrodipicolinate synthase; <b>PDBTitle:</b> dihydrodipicolinate synthase from shewanella benthica
95	<a href="#">c2cw6B</a>	Alignment	not modelled	29.6	11	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> hydroxymethylglutaryl-coa lyase, mitochondrial; <b>PDBTitle:</b> crystal structure of human hmg-coa lyase: insights into2 catalysis and the molecular basis for3 hydroxymethylglutaric aciduria
96	<a href="#">c2x7vA</a>	Alignment	not modelled	29.4	7	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> probable endonuclease 4; <b>PDBTitle:</b> crystal structure of thermotoga maritima endonuclease iv in2 the presence of zinc
97	<a href="#">c4tmcB</a>	Alignment	not modelled	29.0	20	<b>PDB header:</b> flavoprotein <b>Chain:</b> B: <b>PDB Molecule:</b> old yellow enzyme; <b>PDBTitle:</b> crystal structure of old yellow enzyme from candida macedoniensis2 aku4588 complexed with p-hydroxybenzaldehyde
98	<a href="#">c4qnwA</a>	Alignment	not modelled	29.0	24	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> chanoclavine-i aldehyde reductase; <b>PDBTitle:</b> crystal structure of easa, an old yellow enzyme from aspergillus2 fumigatus
99	<a href="#">d1f74a</a>	Alignment	not modelled	28.7	15	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Aldolase <b>Family:</b> Class I aldolase
100	<a href="#">c3e38A</a>	Alignment	not modelled	28.7	11	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> two-domain protein containing predicted php-like metal- <b>PDBTitle:</b> crystal structure of a two-domain protein containing predicted php-2 like metal-dependent phosphoesterase (bvu_3505) from bacteroides3 vulgaris atcc 8482 at 2.20 a resolution
101	<a href="#">d1s2wa</a>	Alignment	not modelled	28.6	20	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Phosphoenolpyruvate/pyruvate domain <b>Family:</b> Phosphoenolpyruvate mutase/Isocitrate lyase-like
102	<a href="#">c4lrc</a>	Alignment	not modelled	28.5	13	<b>PDB header:</b> lyase/oxidoreductase <b>Chain:</b> C: <b>PDB Molecule:</b> 4-hydroxy-2-oxovalerate aldolase; <b>PDBTitle:</b> 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 whithin the shared cofactor-binding site
103	<a href="#">c4rnxA</a>	Alignment	not modelled	28.4	33	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> nadph dehydrogenase 1; <b>PDBTitle:</b> k154 circular permutation of old yellow enzyme
						<b>PDB header:</b> oxidoreductase

104	<a href="#">c3noyA_</a>	Alignment	not modelled	28.2	18	<b>Chain: A: PDB Molecule:</b> 4-hydroxy-3-methylbut-2-en-1-yl diphosphate synthase; <b>PDBTitle:</b> crystal structure of ispg (gcpe)
105	<a href="#">d1aora1</a>	Alignment	not modelled	27.7	11	<b>Fold:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Superfamily:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Family:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains
106	<a href="#">d1ujqa_</a>	Alignment	not modelled	27.6	33	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Phosphoenolpyruvate/pyruvate domain <b>Family:</b> Phosphoenolpyruvate mutase/Iscitrate lyase-like
107	<a href="#">c3ivuB_</a>	Alignment	not modelled	27.4	22	<b>PDB header:</b> transferase <b>Chain: B: PDB Molecule:</b> homocitrate synthase, mitochondrial; <b>PDBTitle:</b> homocitrate synthase lys4 bound to 2-og
108	<a href="#">d1uoua2</a>	Alignment	not modelled	27.2	15	<b>Fold:</b> Nucleoside phosphorylase/phosphoribosyltransferase catalytic domain <b>Superfamily:</b> Nucleoside phosphorylase/phosphoribosyltransferase catalytic domain <b>Family:</b> Nucleoside phosphorylase/phosphoribosyltransferase catalytic domain
109	<a href="#">c2gq8A_</a>	Alignment	not modelled	27.2	22	<b>PDB header:</b> oxidoreductase <b>Chain: A: PDB Molecule:</b> oxidoreductase, fmn-binding; <b>PDBTitle:</b> structure of sye1, an oye homologue from s. ondeidensis, in complex2 with p-hydroxyacetophenone
110	<a href="#">d1vyra_</a>	Alignment	not modelled	26.5	15	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> FMN-linked oxidoreductases <b>Family:</b> FMN-linked oxidoreductases
111	<a href="#">c4ovxA_</a>	Alignment	not modelled	26.3	17	<b>PDB header:</b> isomerase <b>Chain: A: PDB Molecule:</b> xylose isomerase domain protein tim barrel; <b>PDBTitle:</b> crystal structure of xylose isomerase domain protein from planctomyces2 limnophilus dsm 3776
112	<a href="#">c2qiwA_</a>	Alignment	not modelled	26.0	44	<b>PDB header:</b> transferase <b>Chain: A: PDB Molecule:</b> pep phosphonomutase; <b>PDBTitle:</b> crystal structure of a putative phosphoenolpyruvate phosphonomutase2 (ncgl1015, cgl1060) from corynebacterium glutamicum atcc 13032 at 1.80 a resolution
113	<a href="#">c3rmjB_</a>	Alignment	not modelled	25.8	29	<b>PDB header:</b> transferase <b>Chain: B: PDB Molecule:</b> 2-isopropylmalate synthase; <b>PDBTitle:</b> crystal structure of truncated alpha-isopropylmalate synthase from2 neisseria meningitidis
114	<a href="#">d1b25a1</a>	Alignment	not modelled	25.6	11	<b>Fold:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Superfamily:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains <b>Family:</b> Aldehyde ferredoxin oxidoreductase, C-terminal domains
115	<a href="#">c3kruC_</a>	Alignment	not modelled	25.5	33	<b>PDB header:</b> oxidoreductase <b>Chain: C: PDB Molecule:</b> nadh:flavin oxidoreductase/nadh oxidase; <b>PDBTitle:</b> crystal structure of the thermostable old yellow enzyme from2 thermoanaerobacter pseudethanolicus e39
116	<a href="#">d1muma_</a>	Alignment	not modelled	24.8	33	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Phosphoenolpyruvate/pyruvate domain <b>Family:</b> Phosphoenolpyruvate mutase/Iscitrate lyase-like
117	<a href="#">c3gkaB_</a>	Alignment	not modelled	24.7	24	<b>PDB header:</b> oxidoreductase <b>Chain: B: PDB Molecule:</b> n-ethylmaleimide reductase; <b>PDBTitle:</b> crystal structure of n-ethylmaleimidine reductase from2 burkholderia pseudomallei
118	<a href="#">c1b4nd_</a>	Alignment	not modelled	24.5	11	<b>PDB header:</b> oxidoreductase <b>Chain: D: PDB Molecule:</b> formaldehyde ferredoxin oxidoreductase; <b>PDBTitle:</b> formaldehyde ferredoxin oxidoreductase from pyrococcus furiosus,2 complexed with glutarate
119	<a href="#">d1w3ia_</a>	Alignment	not modelled	24.2	15	<b>Fold:</b> TIM beta/alpha-barrel <b>Superfamily:</b> Aldolase <b>Family:</b> Class I aldolase
120	<a href="#">c3n2xB_</a>	Alignment	not modelled	24.1	15	<b>PDB header:</b> lyase <b>Chain: B: PDB Molecule:</b> uncharacterized protein yage; <b>PDBTitle:</b> crystal structure of yage, a prophage protein belonging to the2 dihydropicolic acid synthase family from e. coli k12 in complex3 with pyruvate