

Phyre²

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Description	RVBD3603c_(-)_4045386_4046297
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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3d1IB	Alignment		100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: putative nadp oxidoreductase bf3122; PDBTitle: crystal structure of putative nadp oxidoreductase bf3122 from2 bacteroides fragilis
2	c2i76B	Alignment		100.0	19	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of protein tm1727 from thermotoga maritima
3	c3g0oA	Alignment		100.0	9	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: crystal structure of 3-hydroxyisobutyrate dehydrogenase2 (ygjb) from salmonella typhimurium
4	c3l6dB	Alignment		100.0	12	PDB header: oxidoreductase Chain: B: PDB Molecule: putative oxidoreductase; PDBTitle: crystal structure of putative oxidoreductase from pseudomonas putida2 kt2440
5	c3dfuB	Alignment		100.0	23	PDB header: oxidoreductase Chain: B: PDB Molecule: uncharacterized protein from 6-phosphogluconate PDBTitle: crystal structure of a putative rosmann-like dehydrogenase (cgI2689)2 from corynebacterium glutamicum at 2.07 a resolution
6	c1pgjA	Alignment		100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase; PDBTitle: x-ray structure of 6-phosphogluconate dehydrogenase from the protozoan2 parasite t. brucei
7	c4dlIB	Alignment		100.0	10	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-hydroxy-3-oxopropionate reductase; PDBTitle: crystal structure of a 2-hydroxy-3-oxopropionate reductase from2 polaromonas sp. js666
8	c2iz1C	Alignment		100.0	11	PDB header: oxidoreductase Chain: C: PDB Molecule: 6-phosphogluconate dehydrogenase, decarboxylating; PDBTitle: 6pdh complexed with pex inhibitor synchrotron data
9	c5u5gC	Alignment		100.0	13	PDB header: oxidoreductase Chain: C: PDB Molecule: 6-phosphogluconate dehydrogenase; PDBTitle: psf3 in complex with nadp+ and 2-opp
10	c3fwnB	Alignment		100.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: 6-phosphogluconate dehydrogenase, decarboxylating; PDBTitle: dimeric 6-phosphogluconate dehydrogenase complexed with 6-2 phosphogluconate and 2'-monophosphoadenosine-5'-diphosphate
11	c1vpdA	Alignment		100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: tartronate semialdehyde reductase; PDBTitle: x-ray crystal structure of tartronate semialdehyde reductase2 [salmonella typhimurium lt2]

12	c2p4qA	Alignment		100.0	9	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase, decarboxylating 1; PDBTitle: crystal structure analysis of gnd1 in saccharomyces cerevisiae
13	c3cumA	Alignment		100.0	10	PDB header: oxidoreductase Chain: A: PDB Molecule: probable 3-hydroxyisobutyrate dehydrogenase; PDBTitle: crystal structure of a possible 3-hydroxyisobutyrate dehydrogenase2 from pseudomonas aeruginosa pao1
14	c1yb4A	Alignment		100.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: tartronic semialdehyde reductase; PDBTitle: crystal structure of the tartronic semialdehyde reductase from2 salmonella typhimurium lt2
15	c4gbjB	Alignment		100.0	12	PDB header: oxidoreductase Chain: B: PDB Molecule: 6-phosphogluconate dehydrogenase nad-binding; PDBTitle: crystal structure of nad-binding 6-phosphogluconate dehydrogenase from2 dyadobacter fermentans
16	c1pqgA	Alignment		100.0	8	PDB header: oxidoreductase (choh(d)-nadh+(a)) Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase; PDBTitle: crystallographic study of coenzyme, coenzyme analogue and substrate2 binding in 6-phosphogluconate dehydrogenase: implications for nadp3 specificity and the enzyme mechanism
17	c2f1kD	Alignment		99.9	18	PDB header: oxidoreductase Chain: D: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of synchocystis arogenate dehydrogenase
18	c2uyyD	Alignment		99.9	14	PDB header: cytokine Chain: D: PDB Molecule: n-pac protein; PDBTitle: structure of the cytokine-like nuclear factor n-pac
19	c2ahrB	Alignment		99.9	18	PDB header: oxidoreductase Chain: B: PDB Molecule: putative pyrroline carboxylate reductase; PDBTitle: crystal structures of 1-pyrroline-5-carboxylate reductase from human2 pathogen streptococcus pyogenes
20	c3ckyA	Alignment		99.9	10	PDB header: oxidoreductase Chain: A: PDB Molecule: 2-hydroxymethyl glutarate dehydrogenase; PDBTitle: structural and kinetic properties of a beta-hydroxyacid dehydrogenase2 involved in nicotinate fermentation
21	c5bseF	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: F: PDB Molecule: pyrroline-5-carboxylate reductase; PDBTitle: crystal structure of medicago truncatula (delta)1-pyrroline-5-2 carboxylate reductase (mtp5cr) PDB header: oxidoreductase Chain: B: PDB Molecule: 6-phosphogluconate dehydrogenase (decarboxylating); PDBTitle: the crystal structure of 6-phosphogluconate dehydrogenase from2 geobacter metallireducens
22	c4e21B	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: B: PDB Molecule: pyrroline-5-carboxylate reductase; PDBTitle: structure of a pyrroline-5-carboxylate reductase (proc) from coxiella burnetii
23	c3triB	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: D: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: structure of hydroxyisobutyrate dehydrogenase from thermus2 thermophilus hb8
24	c2cvzD	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: F: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase family protein; PDBTitle: crystal structure of gamma-hydroxybutyrate dehydrogenase from2 geobacter sulfurreducens in complex with nadp+
25	c3pduF	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: A: PDB Molecule: dehydrogenase-like protein; PDBTitle: structure of glyoxylate reductase 1 from arabidopsis (atgrly1)
26	c3dojA	Alignment	not modelled	99.9	10	PDB header: oxidoreductase Chain: E: PDB Molecule: pyrroline-5-carboxylate reductase 1; PDBTitle: crystal structure of human pyrroline-5-carboxylate reductase
27	c2izzE	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A: PDB Molecule: pyrroline-5-carboxylate reductase; PDBTitle: crystal structure of pyrroline 5-carboxylate reductase
28	c3gt0A	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: C: PDB Molecule: pyrroline-5-carboxylate reductase;

						from bacillus2 cereus. northeast structural genomics consortium target bcr38b
29	c6fqzB	Alignment	not modelled	99.9	9	PDB header: oxidoreductase Chain: B: PDB Molecule: 6-phosphogluconate dehydrogenase, decarboxylating; PDBTitle: plasmodium falciparum 6-phosphogluconate dehydrogenase in its apo2 form, in complex with its cofactor nadp+ and in complex with its3 substrate 6-phosphogluconate
30	c5a9tA	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: putative dehydrogenase; PDBTitle: imine reductase from amycolatopsis orientalis in complex2 with (r)-methyltetrahydroisoquinoline
31	c2ag8A	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: pyrroline-5-carboxylate reductase; PDBTitle: nadp complex of pyrroline-5-carboxylate reductase from neisseria2 meningitidis
32	c3w6uA	Alignment	not modelled	99.9	9	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase, nad-binding protein; PDBTitle: crystal structure of nadp bound l-serine 3-dehydrogenase from2 hyperthermophilic archaeon pyrobaculum calidifontis
33	c2pv7B	Alignment	not modelled	99.9	11	PDB header: isomerase, oxidoreductase Chain: B: PDB Molecule: t-protein [includes: chorismate mutase (ec 5.4.99.5) (cm) PDBTitle: crystal structure of chorismate mutase / prephenate dehydrogenase2 (tyra) (1574749) from haemophilus influenzae rd at 2.00 a resolution
34	c2rcyB	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: B: PDB Molecule: pyrroline carboxylate reductase; PDBTitle: crystal structure of plasmodium falciparum pyrroline carboxylate2 reductase (mal13p1.284) with nadp bound
35	c4ezbA	Alignment	not modelled	99.9	11	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized conserved protein; PDBTitle: crystal structure of the conserved hypothetical protein from2 sinorhizobium meliloti 1021
36	c3ktdC	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: C: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of a putative prephenate dehydrogenase (cgl0226)2 from corynebacterium glutamicum atcc 13032 at 2.60 a resolution
37	c5g6sD	Alignment	not modelled	99.9	9	PDB header: oxidoreductase Chain: D: PDB Molecule: imine reductase; PDBTitle: imine reductase from aspergillus oryzae in complex with nadp(h) and2 (r)-rasagiline
38	c2g5cD	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: D: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase from aquifex aeolicus
39	c4d3fB	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: B: PDB Molecule: imine reductase; PDBTitle: bcsired from bacillus cereus in complex with nadph
40	c3pefA	Alignment	not modelled	99.9	11	PDB header: oxidoreductase Chain: A: PDB Molecule: 6-phosphogluconate dehydrogenase, nad-binding; PDBTitle: crystal structure of gamma-hydroxybutyrate dehydrogenase from2 geobacter metallireducens in complex with nadp+
41	c5ocmA	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: nad_gly3p_dh, nad-dependent glycerol-3-phosphate PDBTitle: imine reductase from streptosporangium roseum in complex with nadp+2 and 2,2,2-trifluoroacetophenone hydrate
42	c4d3sA	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: imine reductase; PDBTitle: imine reductase from nocardiosis halophila
43	c3ggpA	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: A: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase from a. aeolicus in2 complex with hydroxyphenyl propionate and nad+
44	c6grlA	Alignment	not modelled	99.9	10	PDB header: oxidoreductase Chain: A: PDB Molecule: beta-hydroxyacid dehydrogenase, 3-hydroxyisobutyrate PDBTitle: structure of imine reductase (apo form) at 1.6 a resolution from2 saccharomonospora xinjiangensis
45	c5ojIA	Alignment	not modelled	99.9	10	PDB header: oxidoreductase Chain: A: PDB Molecule: imine reductase; PDBTitle: imine reductase from aspergillus terreus in complex with nadph4 and2 dibenz[c,e]azepine
46	c5t8xA	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: A: PDB Molecule: prephenate dehydrogenase 1; PDBTitle: prephenate dehydrogenase from soybean
47	c2gf2B	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: B: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: crystal structure of human hydroxyisobutyrate dehydrogenase
48	c3dzba	Alignment	not modelled	99.9	15	PDB header: biosynthetic protein Chain: A: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase from streptococcus2 thermophilus
49	c3b1fA	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: A: PDB Molecule: putative prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase from streptococcus2 mutans
50	c2graA	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: A: PDB Molecule: pyrroline-5-carboxylate reductase 1; PDBTitle: crystal structure of human pyrroline-5-carboxylate reductase complexed2 with nadp
51	c4wjia	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: putative cyclohexadienyl dehydrogenase and adh prephenate PDBTitle: crystal structure of cyclohexadienyl dehydrogenase from

						sinorhizobium2 melioli in complex with nadp and tyrosine
52	c4oqyA	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: (s)-imine reductase; PDBTitle: streptomyces sp. gf3546 imine reductase
53	c5je8A	Alignment	not modelled	99.9	10	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hydroxyisobutyrate dehydrogenase; PDBTitle: the crystal structure of bacillus cereus 3-hydroxyisobutyrate2 dehydrogenase in complex with nad
54	c4oqzA	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: putative oxidoreductase yfjr; PDBTitle: streptomyces aurantiacus imine reductase
55	c3zhbC	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: C: PDB Molecule: r-imine reductase; PDBTitle: r-imine reductase from streptomyces kanamyceticus in2 complex with nadp.
56	c5uscB	Alignment	not modelled	99.9	16	PDB header: hydrolase Chain: B: PDB Molecule: prephenate dehydrogenase; PDBTitle: crystal structure of prephenate dehydrogenase tyra from bacillus2 anthracis in complex with nad and l-tyrosine
57	c5y8mA	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: A: PDB Molecule: probable 3-hydroxyisobutyrate dehydrogenase; PDBTitle: mycobacterium tuberculosis 3-hydroxyisobutyrate dehydrogenase2 (mthibadh) + nad + (r)-3-hydroxyisobutyrate (r-hiba)
58	c3qsgA	Alignment	not modelled	99.9	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: nad-binding phosphogluconate dehydrogenase-like protein; PDBTitle: crystal structure of nad-binding phosphogluconate dehydrogenase-like2 protein from alicyclobacillus acidocaldarius
59	c1i36A	Alignment	not modelled	99.9	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved hypothetical protein mth1747; PDBTitle: structure of conserved protein mth1747 of unknown function reveals2 structural similarity with 3-hydroxyacid dehydrogenases
60	c3qhaB	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: B: PDB Molecule: putative oxidoreductase; PDBTitle: crystal structure of a putative oxidoreductase from mycobacterium2 avium 104
61	c5t57A	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: semialdehyde dehydrogenase nad-binding protein; PDBTitle: crystal structure of a semialdehyde dehydrogenase nad-binding protein2 from cupriavidus necator in complex with calcium and nad
62	c4wb1B	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: B: PDB Molecule: cals8; PDBTitle: crystal structure of cals8 from micromonospora echinosa (p294s2 mutant)
63	c4ypoB	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: B: PDB Molecule: ketol-acid reductoisomerase; PDBTitle: crystal structure of mycobacterium tuberculosis ketol-acid2 reductoisomerase in complex with mg2+
64	c2ep9A	Alignment	not modelled	99.9	10	PDB header: oxidoreductase Chain: A: PDB Molecule: l-gulonate 3-dehydrogenase; PDBTitle: crystal structure of the rabbit l-gulonate 3-dehydrogenase2 (nadh form)
65	c4e12A	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A: PDB Molecule: diketoreductase; PDBTitle: substrate-directed dual catalysis of dicarbonyl compounds by2 diketoreductase
66	d2ahra2	Alignment	not modelled	99.8	19	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
67	c5n2iC	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: C: PDB Molecule: reduced coenzyme f420:nadp oxidoreductase; PDBTitle: f420:nadph oxidoreductase from thermobifida fusca with nadp+ bound
68	d1vpda2	Alignment	not modelled	99.8	11	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
69	c4xdzB	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: B: PDB Molecule: ketol-acid reductoisomerase; PDBTitle: holo structure of ketol-acid reductoisomerase from ignisphaera2 aggregans
70	c4om8B	Alignment	not modelled	99.8	23	PDB header: oxidoreductase Chain: B: PDB Molecule: 3-hydroxybutyryl-coa dehydrogenase; PDBTitle: crystal structure of 5-formyl-3-hydroxy-2-methylpyridine 4-carboxylic2 acid (fhmpc) 5-dehydrogenase, an nad+ dependent dismutase.
71	d3cum2	Alignment	not modelled	99.8	10	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
72	c1mv8A	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: gdp-mannose 6-dehydrogenase; PDBTitle: 1.55 a crystal structure of a ternary complex of gdp-mannose2 dehydrogenase from psuedomonas aeruginosa
73	c4a7pA	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: A: PDB Molecule: udp-glucose dehydrogenase; PDBTitle: se-met derivatized ugdd, udp-glucose dehydrogenase from sphingomonas2 elodea
74	c3c24A	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: putative oxidoreductase; PDBTitle: crystal structure of a putative oxidoreductase (yp_511008.1) from2 jannaschia sp. ccs1 at 1.62 a resolution
75	c4r16A	Alignment	not modelled	99.8	13	PDB header: oxidoreductase Chain: A: PDB Molecule: 418aa long hypothetical udp-n-acetyl-d-mannosaminuronic

76	c3gg2B_	Alignment	not modelled	99.8	13	<p>PDBTitle: structure of udp-d-mannac dehdrogeanse from pyrococcus horikoshii</p> <p>PDB header:oxidoreductase</p> <p>Chain: B: PDB Molecule:sugar dehydrogenase, udp-glucose/gdp-mannose dehydrogenase</p> <p>PDBTitle: crystal structure of udp-glucose 6-dehydrogenase from porphyromonas2 gingivalis bound to product udp-glucuronate</p> <p>PDB header:oxidoreductase</p> <p>Chain: B: PDB Molecule:probable 3-hydroxyacyl-coa dehydrogenase f54c8.1;</p> <p>PDBTitle: crystal structure of 3-hydroxyacyl-coa dehydrogenase from2 caenorhabditis elegans in p1 space group</p> <p>PDB header:oxidoreductase</p> <p>Chain: A: PDB Molecule:udp-glucose 6-dehydrogenase;</p> <p>PDBTitle: structure of a udp-glucose dehydrogenase from the hyperthermophilic2 archaeon pyrobaculum islandicum</p>
77	c4j0eB_	Alignment	not modelled	99.8	11	
78	c3vtfA_	Alignment	not modelled	99.8	13	
79	c2y0dB_	Alignment	not modelled	99.8	14	
80	d1yqga2	Alignment	not modelled	99.8	13	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
81	d2f1ka2	Alignment	not modelled	99.8	18	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
82	d1i36a2	Alignment	not modelled	99.8	17	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
83	d2pgda2	Alignment	not modelled	99.8	9	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
84	d2cvza2	Alignment	not modelled	99.8	16	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
85	c3k6jA_	Alignment	not modelled	99.8	10	<p>PDB header:oxidoreductase</p> <p>Chain: A: PDB Molecule:protein f01g10.3, confirmed by transcript evidence;</p> <p>PDBTitle: crystal structure of the dehydrogenase part of multifunctional enzyme 12 from c.elegans</p>
86	c4xdyB_	Alignment	not modelled	99.8	10	<p>PDB header:oxidoreductase</p> <p>Chain: B: PDB Molecule:ketol-acid reductoisomerase;</p> <p>PDBTitle: structure of nadh-preferring ketol-acid reductoisomerase from an2 uncultured archean</p>
87	d2i76a2	Alignment	not modelled	99.8	16	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
88	c3moga_	Alignment	not modelled	99.8	21	<p>PDB header:oxidoreductase</p> <p>Chain: A: PDB Molecule:probable 3-hydroxybutyryl-coa dehydrogenase;</p> <p>PDBTitle: crystal structure of 3-hydroxybutyryl-coa dehydrogenase from2 escherichia coli k12 substr. mg1655</p>
89	c3rqsB_	Alignment	not modelled	99.8	14	<p>PDB header:oxidoreductase</p> <p>Chain: B: PDB Molecule:hydroxyacyl-coenzyme a dehydrogenase, mitochondrial;</p> <p>PDBTitle: crystal structure of human l-3- hydroxyacyl-coa dehydrogenase2 (ec1.1.1.35) from mitochondria at the resolution 2.0 a, northeast3 structural genomics consortium target hr487, mitochondrial protein4 partnership</p>
90	c6aqjB_	Alignment	not modelled	99.8	12	<p>PDB header:isomerase</p> <p>Chain: B: PDB Molecule:ketol-acid reductoisomerase (nadp(+));</p> <p>PDBTitle: crystal structures of staphylococcus aureus ketol-acid2 reductoisomerase in complex with two transition state analogs that3 have biocidal activity.</p>
91	d1pgja2	Alignment	not modelled	99.8	14	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
92	c1np3B_	Alignment	not modelled	99.8	15	<p>PDB header:oxidoreductase</p> <p>Chain: B: PDB Molecule:ketol-acid reductoisomerase;</p> <p>PDBTitle: crystal structure of class i acetohydroxy acid isomeroreductase from2 pseudomonas aeruginosa</p>
93	c4hujB_	Alignment	not modelled	99.8	18	<p>PDB header:structural genomics, unknown function</p> <p>Chain: B: PDB Molecule:uncharacterized protein;</p> <p>PDBTitle: crystal structure of a hypothetical protein sma0349 from sinorhizobium2 meliloti</p>
94	c4kqxB_	Alignment	not modelled	99.8	16	<p>PDB header:oxidoreductase/oxidoreductase inhibitor</p> <p>Chain: B: PDB Molecule:ketol-acid reductoisomerase;</p> <p>PDBTitle: mutant slackia exigua kari ddv in complex with nad and an inhibitor</p>
95	c4kueA_	Alignment	not modelled	99.8	17	<p>PDB header:oxidoreductase</p> <p>Chain: A: PDB Molecule:3-hydroxybutyryl-coa dehydrogenase;</p> <p>PDBTitle: crystal structure of 3-hydroxybutyryl-coa dehydrogenase from2 clostridium butyricum</p>
96	d2pv7a2	Alignment	not modelled	99.8	11	<p>Fold:NAD(P)-binding Rossmann-fold domains</p> <p>Superfamily:NAD(P)-binding Rossmann-fold domains</p> <p>Family:6-phosphogluconate dehydrogenase-like, N-terminal domain</p>
97	c1m75B_	Alignment	not modelled	99.8	13	<p>PDB header:oxidoreductase</p> <p>Chain: B: PDB Molecule:3-hydroxyacyl-coa dehydrogenase;</p> <p>PDBTitle: crystal structure of the n208s mutant of l-3-hydroxyacyl-coa2 dehydrogenase in complex with nad and acetoacetyl-coa</p>
98	c3plnA_	Alignment	not modelled	99.8	14	<p>PDB header:oxidoreductase</p> <p>Chain: A: PDB Molecule:udp-glucose 6-dehydrogenase;</p> <p>PDBTitle: crystal structure of klebsiella pneumoniae udp-glucose 6-dehydrogenase2 complexed with udp-glucose</p>
99	c2yjzC_	Alignment	not modelled	99.8	16	<p>PDB header:oxidoreductase</p> <p>Chain: C: PDB Molecule:metalloreductase steep4;</p> <p>PDBTitle: rat steep4 oxidoreductase domain complexed with nadp</p>

100	d1jaya_	Alignment	not modelled	99.8	15	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
101	c4pzdB_	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: B: PDB Molecule: 3-hydroxyacyl-coa dehydrogenase; PDBTitle: crystal structure of (s)-3-hydroxybutyryl-coa dehydrogenase paah1 in2 complex with nad+
102	c6hrdD_	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: D: PDB Molecule: 3-hydroxybutyryl-coa dehydrogenase; PDBTitle: crystal structure of m. tuberculosis fadb2 (rv0468)
103	c3ojaA_	Alignment	not modelled	99.7	9	PDB header: oxidoreductase Chain: A: PDB Molecule: cap50; PDBTitle: native structure of the udp-n-acetyl-mannosamine dehydrogenase cap502 from staphylococcus aureus
104	c4b3hA_	Alignment	not modelled	99.7	18	PDB header: oxidoreductase/transferase Chain: A: PDB Molecule: fatty acid beta-oxidation complex alpha-chain fadb; PDBTitle: crystal structure of mycobacterium tuberculosis fatty acid2 beta-oxidation complex
105	c5yeqB_	Alignment	not modelled	99.7	11	PDB header: isomerase Chain: B: PDB Molecule: ketol-acid reductoisomerase (nadp(+)); PDBTitle: the structure of sac-kari protein
106	c1zcjA_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: A: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: crystal structure of 3-hydroxyacyl-coa dehydrogenase
107	d1n1ea2	Alignment	not modelled	99.7	17	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
108	c1m67A_	Alignment	not modelled	99.7	16	PDB header: oxidoreductase Chain: A: PDB Molecule: glycerol-3-phosphate dehydrogenase; PDBTitle: crystal structure of leishmania mexicana gpdh complexed with inhibitor2 2-bromo-6-hydroxy-purine
109	c3dttA_	Alignment	not modelled	99.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: nadp oxidoreductase; PDBTitle: crystal structure of a putative f420 dependent nadp-reductase2 (arth_0613) from arthrobacter sp. fb24 at 1.70 a resolution
110	c3k96B_	Alignment	not modelled	99.7	13	PDB header: oxidoreductase Chain: B: PDB Molecule: glycerol-3-phosphate dehydrogenase [nad(p)+]; PDBTitle: 2.1 angstrom resolution crystal structure of glycerol-3-phosphate2 dehydrogenase (gpsa) from coxiella burnetii
111	d1f0ya2	Alignment	not modelled	99.7	15	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
112	c6iunB_	Alignment	not modelled	99.7	13	PDB header: oxidoreductase Chain: B: PDB Molecule: enoyl-coa hydratase/delta(3)-cis-delta(2)-trans-enoyl-coa PDBTitle: crystal structure of enoyl-coa hydratase (ech) from ralstonia eutropha2 h16 in complex with nad
113	c2x58B_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: B: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: the crystal structure of mfe1 liganded with coa
114	c5ayvB_	Alignment	not modelled	99.7	11	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-dehydropantoate 2-reductase; PDBTitle: crystal structure of archaeal ketopantoate reductase complexed with2 coenzyme a and 2-oxopantoate
115	c2q3eH_	Alignment	not modelled	99.7	12	PDB header: oxidoreductase Chain: H: PDB Molecule: udp-glucose 6-dehydrogenase; PDBTitle: structure of human udp-glucose dehydrogenase complexed with nadh and2 udp-glucose
116	c2o3jC_	Alignment	not modelled	99.7	13	PDB header: oxidoreductase Chain: C: PDB Molecule: udp-glucose 6-dehydrogenase; PDBTitle: structure of caenorhabditis elegans udp-glucose dehydrogenase
117	d2g5ca2	Alignment	not modelled	99.7	15	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: 6-phosphogluconate dehydrogenase-like, N-terminal domain
118	c5zikC_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: C: PDB Molecule: probable 2-dehydropantoate 2-reductase; PDBTitle: crystal structure of ketopantoate reductase from pseudomonas2 aeruginosa
119	c1zejA_	Alignment	not modelled	99.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hydroxyacyl-coa dehydrogenase; PDBTitle: crystal structure of the 3-hydroxyacyl-coa dehydrogenase (hbd-9.2 af2017) from archaeoglobus fulgidus dsm 4304 at 2.00 a resolution
120	c2vq3B_	Alignment	not modelled	99.7	16	PDB header: oxidoreductase Chain: B: PDB Molecule: metalloreductase steep3; PDBTitle: crystal structure of the membrane proximal oxidoreductase2 domain of human steep3, the dominant ferric reductase of3 the erythroid transferrin cycle