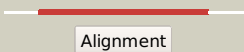

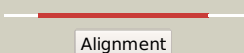

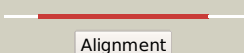

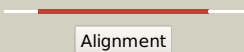







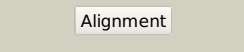
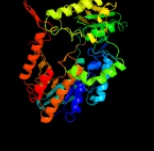
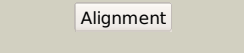



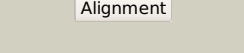
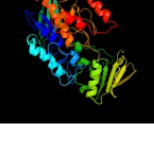











Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3854c_(ethA)_4326182_4327651
Date	Sat Aug 10 22:05:03 BST 2019
Unique Job ID	bb2c6445e03f8618

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5m0zA_	 Alignment		100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase from thermocrisum municipale.; PDBTitle: cyclohexanone monooxygenase from t. municipale: reduced enzyme bound2 to nadp+
2	c5mq6A_	 Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase-like protein; PDBTitle: polycyclic ketone monooxygenase from the thermophilic fungus2 thermothelomyces thermophila
3	c3gwdA_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: closed crystal structure of cyclohexanone monooxygenase
4	c1w4xA_	 Alignment		100.0	24	PDB header: oxygenase Chain: A: PDB Molecule: phenylacetone monooxygenase; PDBTitle: phenylacetone monooxygenase, a baeyer-villiger2 monooxygenase
5	c5j7xA_	 Alignment		100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: dimethylaniline monooxygenase, putative; PDBTitle: baeyer-villiger monooxygenase bvmoaf1838 from aspergillus flavus
6	c4ap3A_	 Alignment		100.0	25	PDB header: oxidoreductase Chain: A: PDB Molecule: steroid monooxygenase; PDBTitle: oxidized steroid monooxygenase bound to nadp
7	c3uclA_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: cyclohexanone-bound crystal structure of cyclohexanone monooxygenase2 in the rotated conformation
8	c3uoyB_	 Alignment		100.0	24	PDB header: oxidoreductase Chain: B: PDB Molecule: otemo; PDBTitle: crystal structure of otemo complex with fad and nadp (form 1)
9	c6jdkA_	 Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: baeyer-villiger monooxygenase; PDBTitle: crystal structure of baeyer-villiger monooxygenase from parvibaculum2 lavamentivorans
10	c6a37A_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: putative flavin-binding monooxygenase; PDBTitle: x-ray structure of cyclohexanone monooxygenase from acinetobacter2 calcoaceticus
11	c2vq7B_	 Alignment		100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: flavin-containing monooxygenase; PDBTitle: bacterial flavin-containing monooxygenase in complex with2 nadp: native data

12	c5gsnD	Alignment		100.0	19	PDB header: flavoprotein Chain: D: PDB Molecule: flavin-containing monooxygenase; PDBTitle: tmm in complex with methimazole
13	c1vqwB	Alignment		100.0	20	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: protein with similarity to flavin-containing PDBTitle: crystal structure of a protein with similarity to flavin-2 containing monooxygenases and to mammalian dimethylalanine3 monooxygenases
14	c5nmwA	Alignment		100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-containing monooxygenase; PDBTitle: crystal structure of the pyrrolizidine alkaloid n-oxygenase from <i>Zonocerus variegatus</i> in complex with fad
15	d1w4xa1	Alignment		100.0	28	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
16	c3s5wB	Alignment		100.0	14	PDB header: oxidoreductase Chain: B: PDB Molecule: l-ornithine 5-monooxygenase; PDBTitle: ornithine hydroxylase (pvda) from <i>Pseudomonas aeruginosa</i>
17	c5cqaA	Alignment		100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: l-lysine 6-monooxygenase; PDBTitle: crystal structure of l-lysine 6-monooxygenase from <i>Pseudomonas syringae</i>
18	c5o8rA	Alignment		100.0	11	PDB header: biosynthetic protein Chain: A: PDB Molecule: l-lysine 6-monooxygenase involved in desferrioxamine PDBTitle: the crystal structure of dfoa bound to fad and nadp; the2 desferrioxamine biosynthetic pathway cadaverine monooxygenase from3 the fire blight disease pathogen <i>Erwinia amylovora</i>
19	c4b68A	Alignment		100.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: l-ornithine n5 monooxygenase; PDBTitle: a. fumigatus ornithine hydroxylase (sida), re-oxidised state bound to2 nadp and arg
20	c4tlxC	Alignment		100.0	14	PDB header: oxidoreductase Chain: C: PDB Molecule: ktzi; PDBTitle: kutzneria sp. 744 ornithine n-hydroxylase, ktzi-fadred-nadp+-l-orn
21	c4d7eA	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: l-lys monooxygenase; PDBTitle: an unprecedented nadph domain conformation in lysine2 monooxygenase nbtg from <i>Nocardia farcinica</i>
22	d2qv8a1	Alignment	not modelled	100.0	18	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
23	c4usrA	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: monooxygenase; PDBTitle: structure of flavin-containing monooxygenase from2 <i>Pseudomonas stutzeri</i> nf13
24	d1w4xa2	Alignment	not modelled	100.0	24	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
25	c1lqtB	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: fprra; PDBTitle: a covalent modification of nadp+ revealed by the atomic resolution2 structure of fprra, a mycobacterium tuberculosis oxidoreductase
26	c3d1cA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-containing putative monooxygenase; PDBTitle: crystal structure of flavin-containing putative monooxygenase2 (np_373108.1) from <i>Staphylococcus aureus</i> mu50 at 2.40 a resolution
27	c4a9wB	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: monooxygenase; PDBTitle: flavin-containing monooxygenase from <i>Stenotrophomonas maltophilia</i>
28	c1cicA	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: protein (adrenodoxin reductase);

28	c4qjA	Alignment	not modelled	100.0	14	PDBTitle: structure of adrenodoxin reductase of mitochondrial p450 systems PDB header: oxidoreductase
29	c4usqA	Alignment	not modelled	100.0	16	Chain: A; PDB Molecule: pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of flavin-containing monooxygenase from2 cellvibrio sp. br
30	c1hyuA	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A; PDB Molecule: alkyl hydroperoxide reductase subunit f; PDBTitle: crystal structure of intact ahpf
31	c3ntaA	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A; PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: structure of the shewanella loihica pv-4 nadh-dependent persulfide2 reductase
32	c6qkgB	Alignment	not modelled	99.9	21	PDB header: flavoprotein Chain: B; PDB Molecule: ncr a; PDBTitle: 2-naphthoyl-coa reductase(ncr)
33	c3icrA	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A; PDB Molecule: coenzyme a-disulfide reductase; PDBTitle: crystal structure of oxidized bacillus anthracis coadr-rhd
34	c5w1jA	Alignment	not modelled	99.9	18	PDB header: signaling protein Chain: A; PDB Molecule: thioredoxin glutathione reductase; PDBTitle: echinococcus granulosus thioredoxin glutathione reductas (egtgr)
35	c1yqzA	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A; PDB Molecule: coenzyme a disulfide reductase; PDBTitle: structure of coenzyme a-disulfide reductase from2 staphylococcus aureus refined at 1.54 angstrom resolution
36	c3oc4A	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A; PDB Molecule: oxidoreductase, pyridine nucleotide-disulfide family; PDBTitle: crystal structure of a pyridine nucleotide-disulfide family2 oxidoreductase from the enterococcus faecalis v583
37	c1ps9A	Alignment	not modelled	99.9	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
38	c1xdia	Alignment	not modelled	99.9	16	PDB header: unknown function Chain: A; PDB Molecule: rv3303c-lpda; PDBTitle: crystal structure of lpda (rv3303c) from mycobacterium tuberculosis
39	c2v6oA	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin glutathione reductase; PDBTitle: structure of schistosoma mansoni thioredoxin-gluthathione2 reductase (smtgr)
40	c1gthD	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: D; PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary complex with2 nadph and 5-iodouracil
41	c1gv4A	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A; PDB Molecule: programed cell death protein 8; PDBTitle: murine apoptosis-inducing factor (aif)
42	c6garB	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: B; PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of oxidised ferredoxin/flavodoxin nadp+2 oxidoreductase 1 (fnr1) from bacillus cereus
43	c2bcpA	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A; PDB Molecule: nadh oxidase; PDBTitle: structural analysis of streptococcus pyogenes nadh oxidase: c44s nox2 with azide
44	c5twcA	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: A; PDB Molecule: ferredoxin--nadp reductase; PDBTitle: oxidoreductase iruo in the oxidized form
45	c2eq7B	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: B; PDB Molecule: 2-oxoglutarate dehydrogenase e3 component; PDBTitle: crystal structure of lipamide dehydrogenase from thermus thermophilus2 hb8 with psbdo
46	c6du7C	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: C; PDB Molecule: glutathione reductase; PDBTitle: glutathione reductase from streptococcus pneumoniae
47	c5jciA	Alignment	not modelled	99.9	18	PDB header: hydrolase Chain: A; PDB Molecule: os09g0567300 protein; PDBTitle: structure and catalytic mechanism of monodehydroascorbate reductase,2 mdhar, from oryza sativa l. japonica
48	c1nhqA	Alignment	not modelled	99.9	17	PDB header: oxidoreductase (h2o2(a)) Chain: A; PDB Molecule: nadh peroxidase; PDBTitle: crystallographic analyses of nadh peroxidase cys42ala and cys42ser2 mutants: active site structure, mechanistic implications, and an3 unusual environment of arg303
49	c4ylfD	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: D; PDB Molecule: dihydropyrimidine dehydrogenase subunit a; PDBTitle: insights into flavin-based electron bifurcation via the nadh-dependent2 reduced ferredoxin-nadp oxidoreductase structure
50	c2cdub	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: B; PDB Molecule: nad(p) oxidase; PDBTitle: the crystal structure of water-forming nad(p)h oxidase from2 lactobacillus sanfranciscensis
51	c2vdcI	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: I; PDB Molecule: glutamate synthase [nadph] small chain; PDBTitle: the 9.5 a resolution structure of glutamate synthase from cryo-2 electron microscopy and its oligomerization behavior in solution:3 functional implications.
52	c4gapB	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: B; PDB Molecule: rotenone-insensitive nadh-ubiquinone oxidoreductase;

						PDBTitle: structure of the ndi1 protein from saccharomyces cerevisiae in complex2 with nad+
53	c3r9uA	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin-disulfide reductase from campylobacter jejuni.
54	c4g6gB	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: B: PDB Molecule: rotenone-insensitive nadh-ubiquinone oxidoreductase, PDBTitle: crystal structure of ndh with trt
55	c1tytA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: trypanothione reductase, oxidized form; PDBTitle: crystal and molecular structure of crithidia fasciculata2 trypanothione reductase at 2.6 angstroms resolution
56	c2gr2A	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase, bpha4 (oxidized form)
57	c5w4cA	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase from cryptococcus2 neoformans in complex with fad (fo conformation)
58	c4j56A	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2; PDBTitle: structure of plasmodium falciparum thioredoxin reductase-thioredoxin2 complex
59	c3ic9D	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the structure of dihydrolipoamide dehydrogenase from colwellia2 psychrerythraea 34h.
60	c5v36A	Alignment	not modelled	99.8	14	PDB header: hydrolase,oxidoreductase Chain: A: PDB Molecule: glutathione reductase; PDBTitle: 1.88 angstrom resolution crystal structure of glutathione reductase2 from streptococcus mutans ua159 in complex with fad
61	c3iwaA	Alignment	not modelled	99.8	21	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: crystal structure of a fad-dependent pyridine nucleotide-disulphide2 oxidoreductase from desulfovibrio vulgaris
62	c2w0hA	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: A: PDB Molecule: trypanothione reductase; PDBTitle: x ray structure of leishmania infantum trypanothione2 reductase in complex with antimony and nadph
63	c4jmqA	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a thioredoxin reductase from brucella melitensis
64	c2zbwA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase-like protein from thermus2 thermophilus hb8
65	c4dnaA	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: A: PDB Molecule: probable glutathione reductase; PDBTitle: crystal structure of putative glutathione reductase from sinorhizobium2 meliloti 1021
66	c3k30B	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: B: PDB Molecule: histamine dehydrogenase; PDBTitle: histamine dehydrogenase from nocardioles simplex
67	c6gncA	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a ferredoxin-flavin thioredoxin reductase from2 clostridium acetobutylicum at 1.64 a resolution
68	c5jriA	Alignment	not modelled	99.8	13	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of an oxidoreductase semet-labelled from synechocystis sp.2 pcc6803
69	c1djnB	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: B: PDB Molecule: trimethylamine dehydrogenase; PDBTitle: structural and biochemical characterization of recombinant wild type2 trimethylamine dehydrogenase from methylophilus methylotrophus (sp.3 w3a1)
70	c5yqqB	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase from2 rhodopseudomonas palustris
71	c1dxcC	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: C: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of glycine decarboxylase2 from pisum sativum
72	c4b1bB	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of plasmodium falciparum oxidised2 thioredoxin reductase at 2.9 angstrom
73	c6b4oB	Alignment	not modelled	99.8	14	PDB header: hydrolase Chain: B: PDB Molecule: glutathione reductase; PDBTitle: 1.73 angstrom resolution crystal structure of glutathione reductase2 from enterococcus faecalis in complex with fad
74	c5jcaL	Alignment	not modelled	99.8	20	PDB header: oxidoreductase Chain: L: PDB Molecule: nadh-dependent ferredoxin:nadp oxidoreductase (nfni) PDBTitle: nadp(h) bound nadh-dependent ferredoxin:nadp oxidoreductase (nfni)2 from pyrococcus furiosus
75	c1v59B	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of yeast lipoamide dehydrogenase2 complexed with nad+
76	c5niiB	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the atypical thioredoxin reductase tri from2 desulfovibrio vulgaris hildenborough
						PDB header: oxidoreductase

77	c5odeA	Alignment	not modelled	99.8	16	Chain: A: PDB Molecule: gll2934 protein; PDBTitle: structure of a novel oxidoreductase from gloebacter violaceus
78	c1ojtA	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: surface protein; PDBTitle: structure of dihydrolipoamide dehydrogenase
79	c1geuA	Alignment	not modelled	99.8	15	PDB header: oxidoreductase(flavoenzyme) Chain: A: PDB Molecule: glutathione reductase; PDBTitle: anatomy of an engineered nad-binding site
80	c5jwcA	Alignment	not modelled	99.8	14	PDB header: membrane protein Chain: A: PDB Molecule: ndh2 dehydrogenase, putative; PDBTitle: structure of ndh2 from plasmodium falciparum in complex with ryl-552
81	c3urhB	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of a dihydrolipoamide dehydrogenase from2 sinorhizobium meliloti 1021
82	c3o0hA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: glutathione reductase; PDBTitle: crystal structure of glutathione reductase from bartonella henselae
83	c4fk1D	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: D: PDB Molecule: putative thioredoxin reductase; PDBTitle: crystal structure of putative thioredoxin reductase trxb from bacillus2 anthracis
84	c3lxdA	Alignment	not modelled	99.8	22	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: crystal structure of ferredoxin reductase arr from novosphingobium2 aromaticivorans
85	c4gcmB	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a thioredoxine reductase (trxb) from2 staphylococcus aureus subsp. aureus mu50 at 1.80 a resolution
86	c3dgzA	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2; PDBTitle: crystal structure of mouse mitochondrial thioredoxin reductase, c-2 terminal 3-residue truncation
87	c5uwyA	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: the crystal structure of thioredoxin reductase from streptococcus2 pyogenes mgas5005
88	c1m6iA	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: programmed cell death protein 8; PDBTitle: crystal structure of apoptosis inducing factor (aif)
89	c1zkgA	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2, mitochondrial; PDBTitle: crystal structure of mouse thioredoxin reductase type 2
90	c2eq8E	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: E: PDB Molecule: pyruvate dehydrogenase complex, dihydrolipoamide PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdp
91	c2qaeA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure analysis of trypanosoma cruzi lipoamide2 dehydrogenase
92	c3kd9B	Alignment	not modelled	99.8	21	PDB header: oxidoreductase Chain: B: PDB Molecule: coenzyme a disulfide reductase; PDBTitle: crystal structure of pyridine nucleotide disulfide oxidoreductase from2 pyrococcus horikoshii
93	c2c3dB	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxopropyl-com reductase; PDBTitle: 2.15 angstrom crystal structure of 2-ketopropyl coenzyme m2 oxidoreductase carboxylase with a coenzyme m disulfide3 bound at the active site
94	c2hqmB	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: B: PDB Molecule: glutathione reductase; PDBTitle: crystal structure of glutathione reductase glr1 from the yeast2 saccharomyces cerevisiae
95	c4ntdA	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of hlmi
96	c4jnaA	Alignment	not modelled	99.8	18	PDB header: oxidoreductase/oxidoreductase inhibitor Chain: A: PDB Molecule: deph; PDBTitle: crystal structure of the deph complex with dimethyl-fk228
97	c1lvIA	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the refined structure of pseudomonas putida lipoamide dehydrogenase2 complexed with nad+ at 2.45 angstroms resolution
98	c1zx9A	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: crystal structure of tn501 mera
99	c1ndaD	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: D: PDB Molecule: trypanothione oxidoreductase; PDBTitle: the structure of trypanosoma cruzi trypanothione reductase in the2 oxidized and nadph reduced state
100	c6mp5B	Alignment	not modelled	99.8	11	PDB header: membrane protein, oxidoreductase Chain: B: PDB Molecule: sulfide:quinone oxidoreductase, mitochondrial; PDBTitle: crystal structure of native human sulfide:quinone oxidoreductase
101	c2v3aA	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: A: PDB Molecule: rubredoxin reductase; PDBTitle: crystal structure of rubredoxin reductase from pseudomonas2 aeruginosa.
						PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase;

102	c1lpfB_	Alignment	not modelled	99.8	16	PDBTitle: three-dimensional structure of lipamide dehydrogenase from <i>Pseudomonas fluorescens</i> at 2.8 angstroms resolution.3 analysis of redox and thermostability properties PDB header: oxidoreductase, membrane protein, flavop Chain: C: PDB Molecule: nadh dehydrogenase-like protein saouhsc_00878;
103	c4xdbC_	Alignment	not modelled	99.8	17	PDBTitle: nadh:quinone oxidoreductase (ndh-ii) from <i>Staphylococcus aureus</i> -2 holoprotein structure PDB header: oxidoreductase Chain: G: PDB Molecule: thioredoxin reductase;
104	c6gndG_	Alignment	not modelled	99.8	18	PDBTitle: crystal structure of the complex of a ferredoxin-flavin thioredoxin2 reductase and a thioredoxin from <i>Clostridium acetobutylicum</i> at 2.9 a3 resolution PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase related protein;
105	c2ywlA_	Alignment	not modelled	99.8	20	PDBTitle: crystal structure of thioredoxin reductase-related protein ttha03702 from <i>Thermus thermophilus</i> hb8 PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase 2;
106	c3lzxB_	Alignment	not modelled	99.8	18	PDBTitle: crystal structure of ferredoxin-nadp+ oxidoreductase from <i>Bacillus subtilis</i> (form ii) PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase;
107	c3l8kB_	Alignment	not modelled	99.8	14	PDBTitle: crystal structure of a dihydrolipoyl dehydrogenase from <i>Sulfolobus solfataricus</i> PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-binding subunit of sulfide dehydrogenase;
108	c5n1tA_	Alignment	not modelled	99.8	18	PDBTitle: crystal structure of complex between flavocytochrome c and copper2 chaperone copc from <i>T. paradoxus</i> PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulfide oxidoreductase;
109	c4nzwA_	Alignment	not modelled	99.8	23	PDBTitle: structure of bacterial type ii nadh dehydrogenase from <i>2</i> <i>Caldalkalibacillus thermarum</i> at 2.5a resolution PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoyl dehydrogenase;
110	c2a8xA_	Alignment	not modelled	99.8	17	PDBTitle: crystal structure of lipamide dehydrogenase from <i>2</i> <i>Mycobacterium tuberculosis</i> PDB header: oxidoreductase Chain: B: PDB Molecule: glutathione amide reductase;
111	c2r9zB_	Alignment	not modelled	99.8	16	PDBTitle: glutathione amide reductase from <i>Chromatium gracile</i> PDB header: oxidoreductase Chain: G: PDB Molecule: dihydrolipoyl dehydrogenase;
112	c1zmcG_	Alignment	not modelled	99.8	14	PDBTitle: crystal structure of human dihydrolipoamide dehydrogenase2 complexed to nad+ PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase;
113	c6aonB_	Alignment	not modelled	99.8	15	PDBTitle: 1.72 angstrom resolution crystal structure of 2-oxoglutarate2 dehydrogenase complex subunit dihydrolipoamide dehydrogenase from <i>3</i> <i>Bordetella pertussis</i> in complex with fad PDB header: oxidoreductase Chain: B: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase, class i;
114	c3cgdB_	Alignment	not modelled	99.8	16	PDBTitle: pyridine nucleotide complexes with <i>Bacillus anthracis</i> coenzyme a-2 disulfide reductase: a structural analysis of dual nad(p)h3 specificity PDB header: oxidoreductase Chain: B: PDB Molecule: oxidoreductase;
115	c3fbsB_	Alignment	not modelled	99.8	19	PDBTitle: the crystal structure of the oxidoreductase from <i>Agrobacterium tumefaciens</i> PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase;
116	c4ywoA_	Alignment	not modelled	99.8	16	PDBTitle: mercuric reductase from <i>2</i> <i>Metallosphaera sedula</i> PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase;
117	c5m5jA_	Alignment	not modelled	99.8	13	PDBTitle: thioredoxin reductase from <i>Giardia duodenalis</i> PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase;
118	c4jdrB_	Alignment	not modelled	99.8	14	PDBTitle: dihydrolipoamide dehydrogenase of pyruvate dehydrogenase from <i>2</i> <i>Escherichia coli</i> PDB header: complex (oxidoreductase/transferase) Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase;
119	c1ebdB_	Alignment	not modelled	99.8	18	PDBTitle: dihydrolipoamide dehydrogenase complexed with the binding2 domain of the dihydrolipoamide acetylase PDB header: oxidoreductase Chain: D: PDB Molecule: nadh oxidase;
120	c5er0D_	Alignment	not modelled	99.8	18	PDBTitle: water-forming nadh oxidase from <i>2</i> <i>Lactobacillus brevis</i> (lbnx) PDB header: oxidoreductase