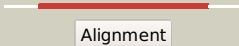



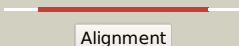

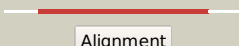

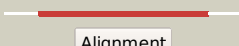

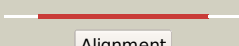

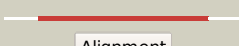











Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0892_(-)_993856_995343
Date	Fri Jul 26 01:50:48 BST 2019
Unique Job ID	bd2c1a9500688c96

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5m0zA_	 Alignment		100.0	33	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase from thermocrispum municipale.; PDBTitle: cyclohexanone monooxygenase from t. municipale: reduced enzyme bound2 to nadp+
2	c3gwdA_	 Alignment		100.0	32	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: closed crystal structure of cyclohexanone monooxygenase
3	c1w4xA_	 Alignment		100.0	29	PDB header: oxygenase Chain: A: PDB Molecule: phenylacetone monooxygenase; PDBTitle: phenylacetone monooxygenase, a baeyer-villiger2 monooxygenase
4	c4ap3A_	 Alignment		100.0	33	PDB header: oxidoreductase Chain: A: PDB Molecule: steroid monooxygenase; PDBTitle: oxidized steroid monooxygenase bound to nadp
5	c5mq6A_	 Alignment		100.0	29	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase-like protein; PDBTitle: polycyclic ketone monooxygenase from the thermophilic fungus2 thermothelomyces thermophila
6	c3uoqB_	 Alignment		100.0	33	PDB header: oxidoreductase Chain: B: PDB Molecule: otemo; PDBTitle: crystal structure of otemo complex with fad and nadp (form 1)
7	c5j7xA_	 Alignment		100.0	29	PDB header: oxidoreductase Chain: A: PDB Molecule: dimethylaniline monooxygenase, putative; PDBTitle: baeyer-villiger monooxygenase bmoafl838 from aspergillus flavus
8	c3uclA_	 Alignment		100.0	32	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: cyclohexanone-bound crystal structure of cyclohexanone monooxygenase2 in the rotated conformation
9	c6jdkA_	 Alignment		100.0	31	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	30	PDB header: oxidoreductase Chain: A: PDB Molecule: putative flavin-binding monooxygenase; PDBTitle: x-ray structure of cyclohexanone monooxygenase from acinetobacter2 calcoaceticus
11	dlw4xa1	 Alignment		100.0	31	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains

12	c2vq7B_	Alignment		100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: flavin-containing monooxygenase; PDBTitle: bacterial flavin-containing monooxygenase in complex with2 nadp: native data
13	c5gsnD_	Alignment		100.0	21	PDB header: flavoprotein Chain: D: PDB Molecule: flavin-containing monooxygenase; PDBTitle: tmm in complex with methimazole
14	c1vqwB_	Alignment		100.0	23	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
15	c5nmwA_	Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-containing monooxygenase; PDBTitle: crystal structure of the pyrrolizidine alkaloid n-oxygenase from2 zonocerus variegatus in complex with fad
16	c3s5wB_	Alignment		100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: l-ornithine 5-monooxygenase; PDBTitle: ornithine hydroxylase (pvda) from pseudomonas aeruginosa
17	c5cqaA_	Alignment		100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: l-lysine 6-monooxygenase; PDBTitle: crystal structure of l-lysine 6-monooxygenase from pseudomonas2 syringae
18	c4b68A_	Alignment		100.0	16	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
19	c5o8rA_	Alignment		100.0	14	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 erwinia amylovora
20	c4d7eA_	Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: l-lys monooxygenase; PDBTitle: an unprecedented nadph domain conformation in lysine2 monooxygenase nbtg from nocardia farcinica
21	c4tlxC_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: C: PDB Molecule: ktzi; PDBTitle: kutzneria sp. 744 ornithine n-hydroxylase, ktzi-fadred-nadp+-l-orn
22	d1w4xa2	Alignment	not modelled	100.0	31	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: FAD/NAD-linked reductases, N-terminal and central domains
23	d2gv8a1	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
24	c3d1cA_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: flavin-containing putative monooxygenase; PDBTitle: crystal structure of flavin-containing putative monooxygenase2 (np_373108.1) from staphylococcus aureus mu50 at 2.40 a resolution
25	c4usrA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: monooxygenase; PDBTitle: structure of flavin-containing monooxygenase from2 pseudomonas stutzeri nf13
26	c1lqtB_	Alignment	not modelled	100.0	19	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
27	c4a9wB_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: monooxygenase; PDBTitle: flavin-containing monooxygenase from stentrophomonas maltophilia
28	c1cicA_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: protein (adrenodoxin reductase);

28	c1qqa	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	20	Chain: A; PDB Molecule: pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of flavin-containing monooxygenase from2 cellvibrio sp. br
30	c1hyuA	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A; PDB Molecule: alkyl hydroperoxide reductase subunit f; PDBTitle: crystal structure of intact ahpf
31	c6qkgB	Alignment	not modelled	99.9	24	PDB header: flavoprotein Chain: B; PDB Molecule: ncr a; PDBTitle: 2-naphthoyl-coa reductase(ncr)
32	c1ps9A	Alignment	not modelled	99.9	22	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
33	c3ntaA	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: A; PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: structure of the shewanella loihica pv-4 nadh-dependent persulfide2 reductase
34	c3icrA	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: A; PDB Molecule: coenzyme a-disulfide reductase; PDBTitle: crystal structure of oxidized bacillus anthracis coadr-rhd
35	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)
36	c1yqzA	Alignment	not modelled	99.9	19	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
37	c2v6oA	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin glutathione reductase; PDBTitle: structure of schistosoma mansoni thioredoxin-gluthathione2 reductase (smtgr)
38	c3oc4A	Alignment	not modelled	99.9	21	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
39	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
40	c4gapB	Alignment	not modelled	99.9	20	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+
41	c2bcpA	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: A; PDB Molecule: nadh oxidase; PDBTitle: structural analysis of streptococcus pyogenes nadh oxidase: c44s nox2 with azide
42	c5jciA	Alignment	not modelled	99.9	17	PDB header: hydrolase Chain: A; PDB Molecule: os09g0567300 protein; PDBTitle: structure and catalytic mechanism of monodehydroascorbate reductase,2 mdhar, from oryza sativa l. japonica
43	c4g6gB	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: B; PDB Molecule: rotenone-insensitive nadh-ubiquinone oxidoreductase, PDBTitle: crystal structure of ndh with trt
44	c1gthD	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: D; PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary complex with2 nadph and 5-iodouracil
45	c5twcA	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A; PDB Molecule: ferredoxin--nadp reductase; PDBTitle: oxidoreductase iruo in the oxidized form
46	c1djnB	Alignment	not modelled	99.9	21	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)
47	c1gv4A	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A; PDB Molecule: programed cell death protein 8; PDBTitle: murine apoptosis-inducing factor (aif)
48	c3k30B	Alignment	not modelled	99.9	24	PDB header: oxidoreductase Chain: B; PDB Molecule: histamine dehydrogenase; PDBTitle: histamine dehydrogenase from nocardioes simplex
49	c2gr2A	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A; PDB Molecule: ferredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase, bpha4 (oxidized form)
50	c4jmqA	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a thioredoxin reductase from brucella melitensis
51	c6du7C	Alignment	not modelled	99.9	22	PDB header: oxidoreductase Chain: C; PDB Molecule: glutathione reductase; PDBTitle: glutathione reductase from streptococcus pneumoniae
52	c5jwcA	Alignment	not modelled	99.9	18	PDB header: membrane protein Chain: A; PDB Molecule: nadh dehydrogenase, putative; PDBTitle: structure of ndh2 from plasmodium falciparum in complex with ryl-552 PDB header: oxidoreductase

53	c5n1tA_	Alignment	not modelled	99.9	19	Chain: A: PDB Molecule: flavin-binding subunit of sulfide dehydrogenase; PDBTitle: crystal structure of complex between flavocytochrome c and copper2 chaperone copc from t. paradoxus
54	c5niiB_	Alignment	not modelled	99.8	24	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the atypical thioredoxin reductase tri from2 desulfovibrio vulgaris hildenborough
55	c2eq7B_	Alignment	not modelled	99.8	22	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxoglutarate dehydrogenase e3 component; PDBTitle: crystal structure of lipamide dehydrogenase from thermus thermophilus2 hb8 with psbdo
56	c4xdbC_	Alignment	not modelled	99.8	22	PDB header: oxidoreductase, membrane protein, flavop Chain: C: PDB Molecule: nadh dehydrogenase-like protein saouhsc_00878; PDBTitle: nadh:quinone oxidoreductase (ndh-ii) from staphylococcus aureus -2 holoprotein structure
57	c2zbwA_	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase-like protein from thermus2 thermophilus hb8
58	c1xdia_	Alignment	not modelled	99.8	23	PDB header: unknown function Chain: A: PDB Molecule: rv3303c-lpda; PDBTitle: crystal structure of lpda (rv3303c) from mycobacterium tuberculosis
59	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)
60	c5ygaB_	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadh reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase from2 rhodopseudomonas palustris
61	c1tytA_	Alignment	not modelled	99.8	19	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
62	c1fcdB_	Alignment	not modelled	99.8	20	PDB header: electron transport(flavocytochrome) Chain: B: PDB Molecule: flavocytochrome c sulfide dehydrogenase (flavin- PDBTitle: the structure of flavocytochrome c sulfide dehydrogenase2 from a purple phototrophic bacterium chromatium vinosum at3 2.5 angstroms resolution
63	c4yifD_	Alignment	not modelled	99.8	23	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydropyrimidine dehydrogenase subunit a; PDBTitle: insights into flavin-based electron bifurcation via the nadh-dependent2 reduced ferredoxin-nadh oxidoreductase structure
64	c4nwwA_	Alignment	not modelled	99.8	20	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of bacterial type ii nadh dehydrogenase from2 caldalkalibacillus thermarum at 2.5a resolution
65	c1zx9A_	Alignment	not modelled	99.8	22	PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: crystal structure of tn501 mera
66	c3iwaA_	Alignment	not modelled	99.8	22	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
67	c2v3aA_	Alignment	not modelled	99.8	13	PDB header: oxidoreductase Chain: A: PDB Molecule: rubredoxin reductase; PDBTitle: crystal structure of rubredoxin reductase from pseudomonas2 aeruginosa.
68	d1djq3	Alignment	not modelled	99.8	16	Fold: Nucleotide-binding domain Superfamily: Nucleotide-binding domain Family: N-terminal domain of adrenodoxin reductase-like
69	c5jcaL_	Alignment	not modelled	99.8	25	PDB header: oxidoreductase Chain: L: PDB Molecule: nadh-dependent ferredoxin:nadh oxidoreductase (nfni) PDBTitle: nadp(h) bound nadh-dependent ferredoxin:nadh oxidoreductase (nfni)2 from pyrococcus furiosus
70	c6mp5B_	Alignment	not modelled	99.8	16	PDB header: membrane protein, oxidoreductase Chain: B: PDB Molecule: sulfide:quinone oxidoreductase, mitochondrial; PDBTitle: crystal structure of native human sulfide:quinone oxidoreductase
71	c4gcmB_	Alignment	not modelled	99.8	17	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
72	c3r9uA_	Alignment	not modelled	99.8	20	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin-disulfide reductase from campylobacter jejuni.
73	c5uwvA_	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: the crystal structure of thioredoxin reductase from streptococcus2 pyogenes mgas5005
74	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
75	c1nhqA_	Alignment	not modelled	99.8	20	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
76	c2wv1A_	Alignment	not modelled	99.8	22	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase related protein;

76	c2ywnA	Alignment	not modelled	99.8	22	PDBTitle: crystal structure of thioredoxin reductase-related protein ttha03702 from thermus thermophilus hb8 PDB header: oxidoreductase
77	c3ic9D	Alignment	not modelled	99.8	16	Chain: D: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the structure of dihydrolipoamide dehydrogenase from colwellia2 psychrerythraea 34h.
78	c6gncA	Alignment	not modelled	99.8	14	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
79	c2c3dB	Alignment	not modelled	99.8	19	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
80	c3lxdA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: crystal structure of ferredoxin reductase arr from novosphingobium2 aromaticivorans
81	c6b4oB	Alignment	not modelled	99.8	18	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
82	c1q1wA	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: putidaredoxin reductase; PDBTitle: crystal structure of putidaredoxin reductase from2 pseudomonas putida
83	c2cduB	Alignment	not modelled	99.8	20	PDB header: oxidoreductase Chain: B: PDB Molecule: nadph oxidase; PDBTitle: the crystal structure of water-forming nad(p)h oxidase from2 lactobacillus sanfranciscensis
84	c2qaeA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure analysis of trypanosoma cruzi lipoamide2 dehydrogenase
85	c5odeA	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: gll2934 protein; PDBTitle: structure of a novel oxidoreductase from gloebacter violaceus
86	c1ojtA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: surface protein; PDBTitle: structure of dihydrolipoamide dehydrogenase
87	c4dnaA	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: A: PDB Molecule: probable glutathione reductase; PDBTitle: crystal structure of putative glutathione reductase from sinorhizobium2 meliloti 1021
88	c5m5jA	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin reductase from giardia duodenalis
89	c2a87A	Alignment	not modelled	99.8	21	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of m. tuberculosis thioredoxin reductase
90	c4j56A	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2; PDBTitle: structure of plasmodium falciparum thioredoxin reductase-thioredoxin2 complex
91	c4fk1D	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: D: PDB Molecule: putative thioredoxin reductase; PDBTitle: crystal structure of putative thioredoxin reductase trxb from bacillus2 anthracis
92	c3kd9B	Alignment	not modelled	99.8	22	PDB header: oxidoreductase Chain: B: PDB Molecule: coenzyme a disulfide reductase; PDBTitle: crystal structure of pyridine nucleotide disulfide oxidoreductase from2 pyrococcus horikoshii
93	c3fbsB	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: B: PDB Molecule: oxidoreductase; PDBTitle: the crystal structure of the oxidoreductase from agrobacterium2 tumefaciens
94	c1ndaD	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: D: PDB Molecule: trypanothione oxidoreductase; PDBTitle: the structure of trypanosoma cruzi trypanothione reductase in the2 oxidized and nadph reduced state
95	c5v36A	Alignment	not modelled	99.8	20	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
96	c4ntdA	Alignment	not modelled	99.8	22	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of hlimi
97	c1geuA	Alignment	not modelled	99.8	21	PDB header: oxidoreductase(flavoenzyme) Chain: A: PDB Molecule: glutathione reductase; PDBTitle: anatomy of an engineered nad-binding site
98	c6de6B	Alignment	not modelled	99.8	23	PDB header: oxidoreductase Chain: B: PDB Molecule: histamine dehydrogenase; PDBTitle: 2.1 a resolution structure of histamine dehydrogenase from rhizobium2 sp. 4-9
99	c4b1bB	Alignment	not modelled	99.8	14	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of plasmodium falciparum oxidised2 thioredoxin reductase at 2.9 angstrom
100	c2vdcl	Alignment	not modelled	99.8	15	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.
101	c3lzxB	Alignment	not modelled	99.8	20	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase 2; PDBTitle: crystal structure of ferredoxin-nadp+ oxidoreductase

						from bacillus2 subtilis (form ii) PDB header: oxidoreductase
102	c1lvA_	Alignment	not modelled	99.8	18	Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the refined structure of pseudomonas putida lipoamide dehydrogenase2 complexed with nad+ at 2.45 angstroms resolution
103	c3d8xB_	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase 1; PDBTitle: crystal structure of saccharomyces cerevisiae ndpph dependent2 thioredoxin reductase 1
104	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
105	c2a8xA_	Alignment	not modelled	99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of lipoamide dehydrogenase from2 mycobacterium tuberculosis
106	c1dxlC_	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: C: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of glycine decarboxylase2 from pisum sativum
107	c6gndG_	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: G: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the complex of a ferredoxin-flavin thioredoxin2 reductase and a thioredoxin from clostridium acetobutylicum at 2.9 a3 resolution
108	c4ywoA_	Alignment	not modelled	99.8	21	PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: mercuric reductase from metallosphaera sedula
109	c1m6iA_	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: programmed cell death protein 8; PDBTitle: crystal structure of apoptosis inducing factor (aif)
110	c2eq8E_	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: E: PDB Molecule: pyruvate dehydrogenase complex, dihydrolipoamide PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdp
111	c1x31A_	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: sarcosine oxidase alpha subunit; PDBTitle: crystal structure of heterotetrameric sarcosine oxidase from2 corynebacterium sp. u-96
112	c3f8rD_	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: D: PDB Molecule: thioredoxin reductase (trxb-3); PDBTitle: crystal structure of sulfobolus solfataricus thioredoxin2 reductase b3 in complex with two nadp molecules
113	c3urhB_	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of a dihydrolipoamide dehydrogenase from2 sinorhizobium meliloti 1021
114	c3l8kB_	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of a dihydrolipoamide dehydrogenase from sulfobolus2 solfataricus
115	c1v59B_	Alignment	not modelled	99.8	18	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of yeast lipoamide dehydrogenase2 complexed with nad+
116	c3dgzA_	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2; PDBTitle: crystal structure of mouse mitochondrial thioredoxin reductase, c-2 terminal 3-residue truncation
117	c4ntcA_	Alignment	not modelled	99.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: glit; PDBTitle: crystal structure of glit
118	c6aonB_	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: 1.72 angstrom resolution crystal structure of 2-oxoglutarate2 dehydrogenase complex subunit dihydrolipoamide dehydrogenase from3 bordetella pertussis in complex with fad
119	c1zkqA_	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2, mitochondrial; PDBTitle: crystal structure of mouse thioredoxin reductase type 2
120	c5jriA_	Alignment	not modelled	99.8	16	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of an oxidoreductase semet-labelled from synechocystis sp.2 pcc6803