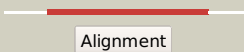

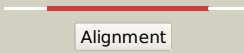



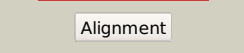



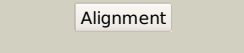

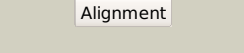



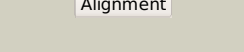

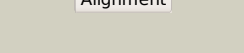

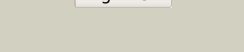












Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0886_(fprB)_983806_985533
Date	Fri Jul 26 01:50:47 BST 2019
Unique Job ID	6f898067aca43f09

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1qtB_	 Alignment		100.0	42	PDB header: oxidoreductase Chain: B: PDB Molecule: fpra; PDBTitle: a covalent modification of nadp+ revealed by the atomic resolution2 structure of fpra, a mycobacterium tuberculosis oxidoreductase
2	c1cjcA_	 Alignment		100.0	38	PDB header: oxidoreductase Chain: A: PDB Molecule: protein (adrenodoxin reductase); PDBTitle: structure of adrenodoxin reductase of mitochondrial p450 systems
3	c1gthD_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary complex with2 nadph and 5-iodouracil
4	c5jcaL_	 Alignment		100.0	24	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
5	c4yifD_	 Alignment		100.0	24	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
6	c2vdcl_	 Alignment		100.0	21	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.
7	d1lqta1	 Alignment		100.0	39	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: C-terminal domain of adrenodoxin reductase-like
8	d1cjca1	 Alignment		100.0	40	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: C-terminal domain of adrenodoxin reductase-like
9	c2v6oA_	 Alignment		100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin glutathione reductase; PDBTitle: structure of schistosoma mansoni thioredoxin-glutathione2 reductase (smtgr)
10	c1hyuA_	 Alignment		100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: alkyl hydroperoxide reductase subunit f; PDBTitle: crystal structure of intact ahpf
11	d1cjca2	 Alignment		100.0	42	Fold: Nucleotide-binding domain Superfamily: Nucleotide-binding domain Family: N-terminal domain of adrenodoxin reductase-like

12	c5w1jA_	Alignment		100.0	16	PDB header: signaling protein Chain: A: PDB Molecule: thioredoxin glutathione reductase; PDBTitle: echinococcus granulosus thioredoxin glutathione reductas (egtgr)
13	c6qkgB_	Alignment		100.0	19	PDB header: flavoprotein Chain: B: PDB Molecule: ncr a; PDBTitle: 2-naphthoyl-coa reductase(ncr)
14	c1ps9A_	Alignment		100.0	18	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
15	d1lqta2	Alignment		100.0	49	Fold: Nucleotide-binding domain Superfamily: Nucleotide-binding domain Family: N-terminal domain of adrenodoxin reductase-like
16	c3k30B_	Alignment		100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: histamine dehydrogenase; PDBTitle: histamine dehydrogenase from nocardioles simplex
17	c5cqaA_	Alignment		100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: l-lysine 6-monooxygenase; PDBTitle: crystal structure of l-lysine 6-monooxygenase from pseudomonas2 syringae
18	c1djinB_	Alignment		100.0	17	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)
19	c2vq7B_	Alignment		100.0	14	PDB header: oxidoreductase Chain: B: PDB Molecule: flavin-containing monooxygenase; PDBTitle: bacterial flavin-containing monooxygenase in complex with2 nadp: native data
20	c3s5wB_	Alignment		100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: l-ornithine 5-monooxygenase; PDBTitle: ornithine hydroxylase (pvdA) from pseudomonas aeruginosa
21	c3uoyB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: otemo; PDBTitle: crystal structure of otemo complex with fad and nadp (form 1)
22	c6de6B_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: histamine dehydrogenase; PDBTitle: 2.1 a resolution structure of histamine dehydrogenase from rhizobium2 sp. 4-9
23	c3ntaA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: structure of the shewanella loihica pv-4 nadh-dependent persulfide2 reductase
24	c4tixC_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: C: PDB Molecule: ktzi; PDBTitle: kutzneria sp. 744 ornithine n-hydroxylase, ktzi-fadred-nadp+-l-orn
25	c6a37A_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: putative flavin-binding monooxygenase; PDBTitle: x-ray structure of cyclohexanone monooxygenase from acinetobacter2 calcoaceticus
26	c1vqwB_	Alignment	not modelled	99.9	18	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
27	c5j7xA_	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: dimethylaniline monooxygenase, putative; PDBTitle: baeyer-villiger monooxygenase bvmoaf1838 from aspergillus flavus
28	c4ap3A_	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: A: PDB Molecule: steroid monooxygenase;

						PDBTitle: oxidized steroid monooxygenase bound to nadp
29	c5o8rA_	Alignment	not modelled	99.9	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 erwinia amylovora
30	c3gwdA_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: closed crystal structure of cyclohexanone monooxygenase
31	c5nmwA_	Alignment	not modelled	99.9	23	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
32	c1w4xA_	Alignment	not modelled	99.9	21	PDB header: oxygenase Chain: A: PDB Molecule: phenylacetone monooxygenase; PDBTitle: phenylacetone monooxygenase, a baeyer-villiger2 monooxygenase
33	c5m0zA_	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase from thermocrisum municipale.; PDBTitle: cyclohexanone monooxygenase from t. municipale: reduced enzyme bound2 to nadp+
34	c6jdkA_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A: PDB Molecule: baeyer-villiger monooxygenase; PDBTitle: crystal structure of baeyer-villiger monooxygenase from parvibaculum2 lavamentivorans
35	c3uclA_	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A: PDB Molecule: cyclohexanone monooxygenase; PDBTitle: cyclohexanone-bound crystal structure of cyclohexanone monooxygenase2 in the rotated conformation
36	c5mq6A_	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase-like protein; PDBTitle: polycyclic ketone monooxygenase from the thermophilic fungus2 thermotheleomyces thermophila
37	c4b68A_	Alignment	not modelled	99.9	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
38	c5gsnD_	Alignment	not modelled	99.9	20	PDB header: flavoprotein Chain: D: PDB Molecule: flavin-containing monooxygenase; PDBTitle: tmm in complex with methimazole
39	c2v3aA_	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A: PDB Molecule: rubredoxin reductase; PDBTitle: crystal structure of rubredoxin reductase from pseudomonas2 aeruginosa.
40	c3d1cA_	Alignment	not modelled	99.9	19	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
41	c3oc4A_	Alignment	not modelled	99.9	14	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
42	c2zbwA_	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase-like protein from thermus2 thermophilus hb8
43	c2bcpA_	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh oxidase; PDBTitle: structural analysis of streptococcus pyogenes nadh oxidase: c44s nox2 with azide
44	c2c3dB_	Alignment	not modelled	99.9	20	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
45	c3r9uA_	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin-disulfide reductase from campylobacter jejuni.
46	c5twcA_	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: oxidoreductase iruo in the oxidized form
47	c3icrA_	Alignment	not modelled	99.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: coenzyme a-disulfide reductase; PDBTitle: crystal structure of oxidized bacillus anthracis coadr-rhd
48	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
49	c1x31A_	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: sarcosine oxidase alpha subunit; PDBTitle: crystal structure of heterotetrameric sarcosine oxidase from2 corynebacterium sp. u-96
50	c2eq8E_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: E: PDB Molecule: pyruvate dehydrogenase complex, dihydrolipoamide PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdp
51	c3urhB_	Alignment	not modelled	99.9	25	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of a dihydrolipoamide dehydrogenase from2 sinorhizobium meliloti 1021
						PDB header: oxidoreductase

52	c3kd9B_	Alignment	not modelled	99.9	23	Chain: B: PDB Molecule: coenzyme a disulfide reductase; PDBTitle: crystal structure of pyridine nucleotide disulfide oxidoreductase from2 pyrococcus horikoshii
53	c1dxlC_	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: C: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of glycine decarboxylase2 from pisum sativum
54	c4nwwA_	Alignment	not modelled	99.9	14	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
55	c1q1wA_	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: putidaredoxin reductase; PDBTitle: crystal structure of putidaredoxin reductase from2 pseudomonas putida
56	c1yqzA_	Alignment	not modelled	99.9	15	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
57	c3ic9D_	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the structure of dihydrolipoamide dehydrogenase from colwellia2 psychrerythraea 34h.
58	c3iwaA_	Alignment	not modelled	99.9	24	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
59	c5w4cA_	Alignment	not modelled	99.9	19	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	c5uwvA_	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: the crystal structure of thioredoxin reductase from streptococcus2 pyogenes mgas5005
61	c4dnaA_	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: probable glutathione reductase; PDBTitle: crystal structure of putative glutathione reductase from sinorhizobium2 meliloti 1021
62	c1y56A_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A: PDB Molecule: hypothetical protein ph1363; PDBTitle: crystal structure of l-proline dehydrogenase from p.horikoshii
63	c6du7C_	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: C: PDB Molecule: glutathione reductase; PDBTitle: glutathione reductase from streptococcus pneumoniae
64	c4jmqA_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a thioredoxin reductase from brucella melitensis
65	c1zx9A_	Alignment	not modelled	99.9	27	PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: crystal structure of tn501 mera
66	c5yggB_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase from2 rhodopseudomonas palustris
67	c4gcmB_	Alignment	not modelled	99.9	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
68	c3l8kB_	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of a dihydrolipoyl dehydrogenase from sulfolobus2 solfataricus
69	c2a8xA_	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of lipoamide dehydrogenase from2 mycobacterium tuberculosis
70	c1xdiA_	Alignment	not modelled	99.9	19	PDB header: unknown function Chain: A: PDB Molecule: rv3303c-lpda; PDBTitle: crystal structure of lpda (rv3303c) from mycobacterium tuberculosis
71	c5jciA_	Alignment	not modelled	99.9	16	PDB header: hydrolase Chain: A: PDB Molecule: os09g0567300 protein; PDBTitle: structure and catalytic mechanism of monodehydroascorbate reductase,2 mdhar, from oryza sativa l. japonica
72	c1ojtA_	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: A: PDB Molecule: surface protein; PDBTitle: structure of dihydrolipoamide dehydrogenase
73	c5odhG_	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: G: PDB Molecule: heterodisulfide reductase, subunit a; PDBTitle: heterodisulfide reductase / [nife]-hydrogenase complex from2 methanothermococcus thermolithotrophicus soaked with heterodisulfide3 for 3.5 minutes
74	c3ab1B_	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase
75	c3lxdA_	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: crystal structure of ferredoxin reductase arr from novosphingobium2 aromaticivorans
76	c6b4oB_	Alignment	not modelled	99.9	19	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

77	c6gncA	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a ferredoxin-flavin thioredoxin reductase from <i>clostridium acetobutylicum</i> at 1.64 a resolution
78	c4a9wB	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: B: PDB Molecule: monooxygenase; PDBTitle: flavin-containing monooxygenase from <i>stenotrophomonas maltophilia</i>
79	c1bwcA	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A: PDB Molecule: protein (glutathione reductase); PDBTitle: structure of human glutathione reductase complexed with ajoene2 inhibitor and subversive substrate
80	c2eq7B	Alignment	not modelled	99.9	22	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxoglutarate dehydrogenase e3 component; PDBTitle: crystal structure of lipamide dehydrogenase from <i>thermus thermophilus</i> 2 hb8 with psbd0
81	c3kpgA	Alignment	not modelled	99.9	14	PDB header: oxidoreductase Chain: A: PDB Molecule: sulfide-quinone reductase, putative; PDBTitle: crystal structure of sulfide:quinone oxidoreductase from <i>acidithiobacillus ferrooxidans</i> in complex with decylubiquinone
82	c3dggA	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2; PDBTitle: crystal structure of mouse mitochondrial thioredoxin reductase, c-2 terminal 3-residue truncation
83	c3lzbB	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadp reductase 2; PDBTitle: crystal structure of ferredoxin-nadp+ oxidoreductase from <i>bacillus subtilis</i> (form ii)
84	c1zkgA	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2, mitochondrial; PDBTitle: crystal structure of mouse thioredoxin reductase type 2
85	c2a87A	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of <i>m. tuberculosis</i> thioredoxin reductase
86	c6aonB	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: 1.72 angstrom resolution crystal structure of 2-oxoglutarate2 dehydrogenase complex subunit dihydrolipoamide dehydrogenase from <i>bordeatella pertussis</i> in complex with fad
87	c4xdbcC	Alignment	not modelled	99.9	15	PDB header: oxidoreductase, membrane protein, flavop Chain: C: PDB Molecule: nadh dehydrogenase-like protein saouhsc_00878; PDBTitle: nadh:quinone oxidoreductase (ndh-ii) from <i>staphylococcus aureus</i> -2 holoprotein structure
88	c1ebdB	Alignment	not modelled	99.9	19	PDB header: complex (oxidoreductase/transferase) Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase complexed with the binding2 domain of the dihydrolipoamide acetylase
89	c1zmcG	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: G: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of human dihydrolipoamide dehydrogenase2 complexed to nad+
90	c6bz0C	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: C: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: 1.83 angstrom resolution crystal structure of dihydrolipoyl2 dehydrogenase from <i>acinetobacter baumannii</i> in complex with fad.
91	c5m5jA	Alignment	not modelled	99.9	16	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin reductase from <i>giardia duodenalis</i>
92	c1lVA	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the refined structure of <i>pseudomonas putida</i> lipoamide dehydrogenase2 complexed with nad+ at 2.45 angstroms resolution
93	c2qaeA	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure analysis of <i>trypanosoma cruzi</i> lipoamide2 dehydrogenase
94	c5j60B	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: structure of a thioredoxin reductase from <i>gloeobacter violaceus</i>
95	c1lpfB	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: three-dimensional structure of lipoamide dehydrogenase from <i>pseudomonas fluorescens</i> at 2.8 angstroms resolution.3 analysis of redox and thermostability properties
96	c2r9zB	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: B: PDB Molecule: glutathione amide reductase; PDBTitle: glutathione amide reductase from <i>chromatium gracile</i>
97	c4ywoA	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: mercuric reductase from <i>metallosphaera sedula</i>
98	c2gr2A	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase, bpha4 (oxidized form)
99	c4a5lB	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the thioredoxin reductase from <i>entamoeba histolytica</i>
100	c1nhgA	Alignment	not modelled	99.9	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
101	c5mikC	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: C: PDB Molecule: thioredoxin reductase;

101	c0mjkc_	Alignment	not modelled	99.9	17	PDBTitle: crystal structure of lactococcus lactis thioredoxin reductase (fo2 conformation) PDB header: oxidoreductase
102	c3d8xB_	Alignment	not modelled	99.9	17	Chain: B; PDB Molecule: thioredoxin reductase 1; PDBTitle: crystal structure of saccharomyces cerevisiae ndpph dependent2 thioredoxin reductase 1
103	c1vdcA_	Alignment	not modelled	99.9	22	PDB header: oxidoreductase Chain: A; PDB Molecule: nadph dependent thioredoxin reductase; PDBTitle: structure of nadph dependent thioredoxin reductase
104	c2cduB_	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: B; PDB Molecule: nadph oxidase; PDBTitle: the crystal structure of water-forming nad(p)h oxidase from2 lactobacillus sanfranciscensis
105	c1v59B_	Alignment	not modelled	99.9	22	PDB header: oxidoreductase Chain: B; PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of yeast lipoamide dehydrogenase2 complexed with nad+
106	c4jdrB_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: B; PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of pyruvate dehydrogenase from2 escherichia coli
107	c1gv4A_	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A; PDB Molecule: programed cell death protein 8; PDBTitle: murine apoptosis-inducing factor (aif)
108	c3fg2P_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: P; PDB Molecule: putative rubredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase for the cyp199a2 system from2 rhodospseudomonas palustris
109	c5x1yC_	Alignment	not modelled	99.9	19	PDB header: oxidoreductase Chain: C; PDB Molecule: mercuric reductase; PDBTitle: structure of mercuric reductase from lysinibacillus sphaericus
110	c5odeA_	Alignment	not modelled	99.9	17	PDB header: oxidoreductase Chain: A; PDB Molecule: gll2934 protein; PDBTitle: structure of a novel oxidoreductase from gloeobacter violaceus
111	c1geuA_	Alignment	not modelled	99.9	18	PDB header: oxidoreductase(flavoenzyme) Chain: A; PDB Molecule: glutathione reductase; PDBTitle: anatomy of an engineered nad-binding site
112	c3ctyA_	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of t. acidophilum thioredoxin reductase
113	c1ndaD_	Alignment	not modelled	99.9	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
114	c5xhuA_	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A; PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ycgf from bacillus subtilis
115	c2w0hA_	Alignment	not modelled	99.9	21	PDB header: oxidoreductase Chain: A; PDB Molecule: trypanothione reductase; PDBTitle: x ray structure of leishmania infantum trypanothione2 reductase in complex with antimony and nadph
116	c5v36A_	Alignment	not modelled	99.9	18	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
117	c6gndG_	Alignment	not modelled	99.9	16	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
118	c1tytA_	Alignment	not modelled	99.9	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
119	c3ef6A_	Alignment	not modelled	99.9	18	PDB header: oxidoreductase Chain: A; PDB Molecule: toluene 1,2-dioxygenase system ferredoxin--nad(+) PDBTitle: crystal structure of toluene 2,3-dioxygenase reductase
120	c5n1tA_	Alignment	not modelled	99.9	16	PDB header: oxidoreductase 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