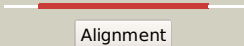

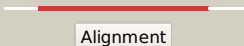

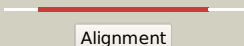







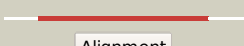

















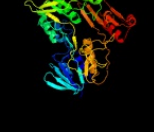


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0688 (-) _787943_789163
Date	Fri Jul 26 01:50:25 BST 2019
Unique Job ID	c3a9fcd3ee44a8b

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2gr2A_	 Alignment		100.0	35	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase, bpha4 (oxidized form)
2	c3ntaA_	 Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: structure of the shewanella loihica pv-4 nadh-dependent persulfide2 reductase
3	c3ef6A_	 Alignment		100.0	33	PDB header: oxidoreductase Chain: A: PDB Molecule: toluene 1,2-dioxygenase system ferredoxin--nad(+) PDBTitle: crystal structure of toluene 2,3-dioxygenase reductase
4	c1q1wA_	 Alignment		100.0	31	PDB header: oxidoreductase Chain: A: PDB Molecule: putidaredoxin reductase; PDBTitle: crystal structure of putidaredoxin reductase from2 pseudomonas putida
5	c3icrA_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: coenzyme a-disulfide reductase; PDBTitle: crystal structure of oxidized bacillus anthracis coadr-rhd
6	c3fg2P_	 Alignment		100.0	35	PDB header: oxidoreductase Chain: P: PDB Molecule: putative rubredoxin reductase; PDBTitle: crystal structure of ferredoxin reductase for the cyp199a2 system from2 rhodospseudomonas palustris
7	c3lxdA_	 Alignment		100.0	35	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent pyridine nucleotide-disulphide PDBTitle: crystal structure of ferredoxin reductase arr from novosphingobium2 aromaticivorans
8	c5jciA_	 Alignment		100.0	31	PDB header: hydrolase Chain: A: PDB Molecule: os09g0567300 protein; PDBTitle: structure and catalytic mechanism of monodehydroascorbate reductase,2 mdhar, from oryza sativa l. japonica
9	c2cduB_	 Alignment		100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: nadh oxidase; PDBTitle: the crystal structure of water-forming nad(p)h oxidase from2 lactobacillus sanfranciscensis
10	c1gv4A_	 Alignment		100.0	28	PDB header: oxidoreductase Chain: A: PDB Molecule: programed cell death protein 8; PDBTitle: murine apoptosis-inducing factor (aif)
11	c2bcpA_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh oxidase; PDBTitle: structural analysis of streptococcus pyogenes nadh oxidase: c44s nox2 with azide

12	c1nhqA	Alignment		100.0	21	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
13	c3oc4A	Alignment		100.0	18	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
14	c1yqzA	Alignment		100.0	18	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
15	c3iwaA	Alignment		100.0	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
16	c1m6iA	Alignment		100.0	27	PDB header: oxidoreductase Chain: A: PDB Molecule: programmed cell death protein 8; PDBTitle: crystal structure of apoptosis inducing factor (aif)
17	c3kd9B	Alignment		100.0	22	PDB header: oxidoreductase Chain: B: PDB Molecule: coenzyme a disulfide reductase; PDBTitle: crystal structure of pyridine nucleotide disulfide oxidoreductase from2 pyrococcus horikoshii
18	c3kijA	Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: nad(fad)-dependent dehydrogenase, nirb-family (n-terminal) PDBTitle: crystal structure of nadh:rubredoxin oxidoreductase from clostridium2 acetobutylicum
19	c5er0D	Alignment		100.0	20	PDB header: oxidoreductase Chain: D: PDB Molecule: nadh oxidase; PDBTitle: water-forming nadh oxidase from lactobacillus brevis (lbnox)
20	c3cgdB	Alignment		100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: pyridine nucleotide-disulfide oxidoreductase, class i; PDBTitle: pyridine nucleotide complexes with bacillus anthracis coenzyme a-2 disulfide reductase: a structural analysis of dual nad(p)h3 specificity
21	c2v3aA	Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: rubredoxin reductase; PDBTitle: crystal structure of rubredoxin reductase from pseudomonas2 aeruginosa.
22	c5w1jA	Alignment	not modelled	100.0	20	PDB header: signaling protein Chain: A: PDB Molecule: thioredoxin glutathione reductase; PDBTitle: echinococcus granulosus thioredoxin glutathione reductas (egtgr)
23	c2v6oA	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin glutathione reductase; PDBTitle: structure of schistosoma mansonii thioredoxin-gluthathione2 reductase (smtgr)
24	c4dnaA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: probable glutathione reductase; PDBTitle: crystal structure of putative glutathione reductase from sinorhizobium2 meliloti 1021
25	c2eq7B	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: B: PDB Molecule: 2-oxoglutarate dehydrogenase e3 component; PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdo
26	c1ojtA	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: surface protein; PDBTitle: structure of dihydrolipoamide dehydrogenase
27	c1xdiA	Alignment	not modelled	100.0	22	PDB header: unknown function Chain: A: PDB Molecule: rv3303c-lpda; PDBTitle: crystal structure of lpda (rv3303c) from mycobacterium tuberculosis
28	c4jdrB	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of pyruvate dehydrogenase from2 escherichia coli PDB header: oxidoreductase

29	c1lVA_	Alignment	not modelled	100.0	20	Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the refined structure of pseudomonas putida lipoamide dehydrogenase2 complexed with nad+ at 2.45 angstroms resolution
30	c3urhB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of a dihydrolipoamide dehydrogenase from2 sinorhizobium meliloti 1021
31	c1ebdB_	Alignment	not modelled	100.0	21	PDB header: complex (oxidoreductase/transferase) Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase complexed with the binding2 domain of the dihydrolipoamide acetylase
32	c1tytA_	Alignment	not modelled	100.0	18	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
33	c3o0hA_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: glutathione reductase; PDBTitle: crystal structure of glutathione reductase from bartonella henselae
34	c1zmcG_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: G: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of human dihydrolipoamide dehydrogenase2 complexed to nad+
35	c6du7C_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: C: PDB Molecule: glutathione reductase; PDBTitle: glutathione reductase from streptococcus pneumoniae
36	c2eq8E_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: E: PDB Molecule: pyruvate dehydrogenase complex, dihydrolipoamide PDBTitle: crystal structure of lipoamide dehydrogenase from thermus thermophilus2 hb8 with psbdp
37	c3l8kB_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of a dihydrolipoamide dehydrogenase from sulfolobus2 solfataricus
38	c4j56A_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2; PDBTitle: structure of plasmodium falciparum thioredoxin reductase-thioredoxin2 complex
39	c2c3dB_	Alignment	not modelled	100.0	18	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
40	c2nvkX_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: X: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase from drosophila2 melanogaster
41	c6aonB_	Alignment	not modelled	100.0	22	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
42	c4ywoA_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: mercuric reductase from metallosphaera sedula
43	c2w0hA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: trypanothione reductase; PDBTitle: x ray structure of leishmania infantum trypanothione2 reductase in complex with antimony and nadph
44	c1ndaD_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: D: PDB Molecule: trypanothione oxidoreductase; PDBTitle: the structure of trypanosoma cruzi trypanothione reductase in the2 oxidized and nadph reduced state
45	c2qaeA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure analysis of trypanosoma cruzi lipoamide2 dehydrogenase
46	c1lpfB_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: three-dimensional structure of lipoamide dehydrogenase from2 pseudomonas fluorescens at 2.8 angstroms resolution.3 analysis of redox and thermostability properties
47	c6bz0C_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: C: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: 1.83 angstrom resolution crystal structure of dihydrolipoamide2 dehydrogenase from acinetobacter baumannii in complex with fad.
48	c1dxlC_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: C: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: dihydrolipoamide dehydrogenase of glycine decarboxylase2 from pisum sativum
49	c4b1bB_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of plasmodium falciparum oxidised2 thioredoxin reductase at 2.9 angstrom
50	c1geuA_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase(flavoenzyme) Chain: A: PDB Molecule: glutathione reductase; PDBTitle: anatomy of an engineered nad-binding site
51	c3ic9D_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: the structure of dihydrolipoamide dehydrogenase from colwellia2 psychrerythraea 34h.
52	c1zx9A_	Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: mercuric reductase; PDBTitle: crystal structure of tn501 mera
53	c3dgzA_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2; PDBTitle: crystal structure of mouse mitochondrial thioredoxin reductase, c-2 terminal 3-residue truncation

54	c2r9zB_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: glutathione amide reductase; PDBTitle: glutathione amide reductase from chromatium gracile
55	c2a8xA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: dihydrolipoyl dehydrogenase; PDBTitle: crystal structure of lipoamide dehydrogenase from2 mycobacterium tuberculosis
56	c1zkqA_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase 2, mitochondrial; PDBTitle: crystal structure of mouse thioredoxin reductase type 2
57	c1v59B_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydrolipoamide dehydrogenase; PDBTitle: crystal structure of yeast lipoamide dehydrogenase2 complexed with nad+
58	c2cfyB_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase 1; PDBTitle: crystal structure of human thioredoxin reductase 1
59	c1bwcA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: protein (glutathione reductase); PDBTitle: structure of human glutathione reductase complexed with ajoene2 inhibitor and subversive substrate
60	c5v36A_	Alignment	not modelled	100.0	17	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	c1onfA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A: PDB Molecule: glutathione reductase; PDBTitle: crystal structure of plasmodium falciparum glutathione reductase
62	c6b4oB_	Alignment	not modelled	100.0	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
63	c5x1yC_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: C: PDB Molecule: mercuric reductase; PDBTitle: structure of mercuric reductase from lysinibacillus sphaericus
64	c2hqmB_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: glutathione reductase; PDBTitle: crystal structure of glutathione reductase glr1 from the yeast2 saccharomyces cerevisiae
65	c1xhcA_	Alignment	not modelled	100.0	24	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh oxidase /nitrite reductase; PDBTitle: nadh oxidase /nitrite reductase from pyrococcus furiosus pfu-1140779-2 001
66	c5jwcA_	Alignment	not modelled	100.0	18	PDB header: membrane protein Chain: A: PDB Molecule: nadh dehydrogenase, putative; PDBTitle: structure of ndh2 from plasmodium falciparum in complex with ryl-552
67	c4xdbC_	Alignment	not modelled	100.0	18	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
68	c3hyxC_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: C: PDB Molecule: sulfide-quinone reductase; PDBTitle: 3-d x-ray structure of the sulfide:quinone oxidoreductase from aquifex2 aeolicus in complex with aurachin c
69	c4nwzA_	Alignment	not modelled	100.0	21	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
70	c6mp5B_	Alignment	not modelled	100.0	12	PDB header: membrane protein, oxidoreductase Chain: B: PDB Molecule: sulfide:quinone oxidoreductase, mitochondrial; PDBTitle: crystal structure of native human sulfide:quinone oxidoreductase
71	c3kpgA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: sulfide-quinone reductase, putative; PDBTitle: crystal structure of sulfide:quinone oxidoreductase from2 acidithiobacillus ferrooxidans in complex with decylubiquinone
72	c5n1tA_	Alignment	not modelled	100.0	15	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
73	c4g6gB_	Alignment	not modelled	100.0	21	PDB header: oxidoreductase Chain: B: PDB Molecule: rotenone-insensitive nadh-ubiquinone oxidoreductase, PDBTitle: crystal structure of ndh with trt
74	c1hyuA_	Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: alkyl hydroperoxide reductase subunit f; PDBTitle: crystal structure of intact ahpf
75	c1fcdB_	Alignment	not modelled	100.0	17	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
76	c4gapB_	Alignment	not modelled	100.0	21	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+
77	c1gthD_	Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary complex with2 nadph and 5-iodouracil
						PDB header: oxidoreductase

78	c4gcmB_	Alignment	not modelled	100.0	19	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
79	c6qkgB_	Alignment	not modelled	100.0	20	PDB header: flavoprotein Chain: B; PDB Molecule: ncr a; PDBTitle: 2-naphthoyl-coa reductase(ncr)
80	c5odeA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A; PDB Molecule: gll2934 protein; PDBTitle: structure of a novel oxidoreductase from gloeobacter violaceus
81	c2zbwA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase-like protein from thermus2 thermophilus hb8
82	c3k30B_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B; PDB Molecule: histamine dehydrogenase; PDBTitle: histamine dehydrogenase from nocardiodes simplex
83	c5jcaL_	Alignment	not modelled	100.0	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
84	c5w4cA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of thioredoxin reductase from cryptococcus2 neoformans in complex with fad (fo conformation)
85	c3h8lA_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: nadh oxidase; PDBTitle: the first x-ray structure of a sulfide:quinone2 oxidoreductase: insights into sulfide oxidation mechanism
86	c5niiB_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the atypical thioredoxin reductase tri from2 desulfovibrio vulgaris hildenborough
87	c4ylfD_	Alignment	not modelled	100.0	17	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
88	c5yggB_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: B; PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase from2 rhodopseudomonas palustris
89	c5jriA_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: pyridine nucleotide-disulfide oxidoreductase; PDBTitle: structure of an oxidoreductase semet-labelled from synechocystis sp.2 pcc6803
90	c6gncA_	Alignment	not modelled	100.0	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
91	c6gndG_	Alignment	not modelled	100.0	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
92	c4ntdA_	Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of hlmi
93	c6garB_	Alignment	not modelled	100.0	14	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
94	c6de6B_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B; PDB Molecule: histamine dehydrogenase; PDBTitle: 2.1 a resolution structure of histamine dehydrogenase from rhizobium2 sp. 4-9
95	c5uwvA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase; PDBTitle: the crystal structure of thioredoxin reductase from streptococcus2 pyogenes mgas5005
96	c1djnB_	Alignment	not modelled	100.0	13	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)
97	c3r9uA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin-disulfide reductase from campylobacter jejuni.
98	c5twcA_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: A; PDB Molecule: ferredoxin--nadp reductase; PDBTitle: oxidoreductase iruo in the oxidized form
99	c1ps9A_	Alignment	not modelled	100.0	19	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
100	c3d1cA_	Alignment	not modelled	100.0	13	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
101	c3ab1B_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B; PDB Molecule: ferredoxin--nadp reductase; PDBTitle: crystal structure of ferredoxin nadp+ oxidoreductase
						PDB header: oxidoreductase Chain: I; PDB Molecule: glutamyl synthase [nadph] small chain;

102	c2vdcL	Alignment	not modelled	100.0	18	PDBTitle: the 9.5 a resolution structure of glutamate synthase from cryo-2 electron microscopy and its oligomerization behavior in solution:3 functional implications.
103	c1vdcA	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh dependent thioredoxin reductase; PDBTitle: structure of nadh dependent thioredoxin reductase
104	c5j60B	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: structure of a thioredoxin reductase from gloeobacter violaceus
105	c4a5lB	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of the thioredoxin reductase from entamoeba2 histolytica
106	c4fk1D	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: D: PDB Molecule: putative thioredoxin reductase; PDBTitle: crystal structure of putative thioredoxin reductase trxb from bacillus2 anthracis
107	c3ctyA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of t. acidophilum thioredoxin reductase
108	c5xhuA	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadh reductase; PDBTitle: crystal structure of ycgt from bacillus subtilis
109	c4a9wB	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: monooxygenase; PDBTitle: flavin-containing monooxygenase from stentrophomonas maltophilia
110	c4jinqA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a thioredoxin reductase from brucella melitensis
111	c1f6mF	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: F: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of a complex between thioredoxin reductase,2 thioredoxin, and the nadp+ analog, aadp+
112	c3d8xB	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: thioredoxin reductase 1; PDBTitle: crystal structure of saccharomyces cerevisiae ndpph dependent2 thioredoxin reductase 1
113	c5mjkc	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: C: PDB Molecule: thioredoxin reductase; PDBTitle: crystal structure of lactococcus lactis thioredoxin reductase (fo2 conformation)
114	c4jnaA	Alignment	not modelled	100.0	17	PDB header: oxidoreductase/oxidoreductase inhibitor Chain: A: PDB Molecule: deph; PDBTitle: crystal structure of the deph complex with dimethyl-fk228
115	c3lzxB	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin--nadh reductase 2; PDBTitle: crystal structure of ferredoxin-nadh+ oxidoreductase from bacillus2 subtilis (form ii)
116	c1fl2A	Alignment	not modelled	100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: alkyl hydroperoxide reductase subunit f; PDBTitle: catalytic core component of the alkylhydroperoxide reductase ahpf from2 e.coli
117	c6bpyA	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: aspergillus fumigatus thioredoxin reductase
118	c3fbsB	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: oxidoreductase; PDBTitle: the crystal structure of the oxidoreductase from agrobacterium2 tumefaciens
119	c5m5jA	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A: PDB Molecule: thioredoxin reductase; PDBTitle: thioredoxin reductase from giardia duodenalis
120	c3f8rD	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: D: PDB Molecule: thioredoxin reductase (trxb-3); PDBTitle: crystal structure of sulfolobus solfataricus thioredoxin2 reductase b3 in complex with two nadp molecules