


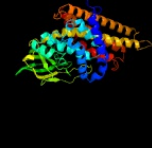





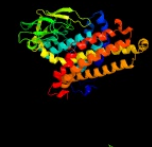


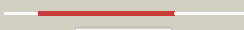
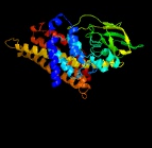
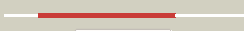









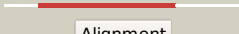

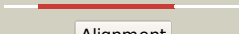







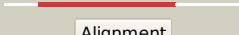

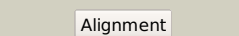

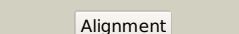


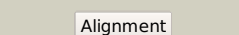

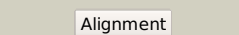

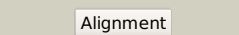

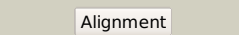


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD0231_(fadE4)_276058_277764
 Date Tue Jul 23 14:50:29 BST 2019
 Unique Job ID c518f2673dfbd869

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3owaC_	 Alignment		100.0	18	PDB header: oxidoreductase Chain: C: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase complexed with fad from2 bacillus anthracis
2	c2z1qA_	 Alignment		100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl coa dehydrogenase
3	c6es9A_	 Alignment		100.0	13	PDB header: flavoprotein Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: methylsuccinyl-coa dehydrogenase of paracoccus denitrificans with2 bound flavin adenine dinucleotide
4	c2uxwA_	 Alignment		100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: very-long-chain specific acyl-coa dehydrogenase; PDBTitle: crystal structure of human very long chain acyl-coa dehydrogenase2 (acadvl)
5	c6ijcA_	 Alignment		100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase family protein; PDBTitle: structure of mmpa-coa dehydrogenase from roseovarius nubinhibens ism
6	c2ix5A_	 Alignment		100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coenzyme a oxidase 4, peroxisomal; PDBTitle: short chain specific acyl-coa oxidase from arabidopsis thaliana, acx42 in complex with acetoacetyl-coa
7	c5zw2A_	 Alignment		100.0	14	PDB header: biosynthetic protein Chain: A: PDB Molecule: l-prolyl-[peptidyl-carrier protein] dehydrogenase; PDBTitle: fad complex of piga
8	c1rx0B_	 Alignment		100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase family member 8, mitochondrial; PDBTitle: crystal structure of isobutyryl-coa dehydrogenase complexed with2 substrate/ligand.
9	c2pg0B_	 Alignment		100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase from geobacillus2 kaustophilus
10	c2a1tC_	 Alignment		100.0	16	PDB header: oxidoreductase/electron transport Chain: C: PDB Molecule: acyl-coa dehydrogenase, medium-chain specific, PDBTitle: structure of the human mcad:etf e165betaa complex
11	c5ez3B_	 Alignment		100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure acyl-coa dehydrogenase from brucella melitensis in2 complex with fad

12	c5iduB_			100.0	20	PDB header: oxidoreductase Chain: B; PDB Molecule: acyl-coa dehydrogenase domain protein; PDBTitle: crystal structure of an acyl-coa dehydrogenase domain protein from2 burkholderia phymatum bound to fad
13	c3oibB_			100.0	15	PDB header: oxidoreductase Chain: B; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of a putative acyl-coa dehydrogenase from2 mycobacterium smegmatis, iodide soak
14	c4irnF_			100.0	17	PDB header: oxidoreductase Chain: F; PDB Molecule: prolyl-acp dehydrogenase; PDBTitle: crystal structure of the prolyl acyl carrier protein oxidase anab
15	c1ivhD_			100.0	16	PDB header: oxidoreductase Chain: D; PDB Molecule: isovaleryl-coa dehydrogenase; PDBTitle: structure of human isovaleryl-coa dehydrogenase at 2.62 angstroms resolution: structural basis for substrate3 specificity
16	c4hr3A_			100.0	12	PDB header: oxidoreductase Chain: A; PDB Molecule: putative acyl-coa dehydrogenase; PDBTitle: structure of a putative acyl-coa dehydrogenase from mycobacterium2 abscessus
17	c2jifA_			100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: short/branched chain specific acyl-coa dehydrogenase; PDBTitle: structure of human short-branched chain acyl-coa dehydrogenase2 (acadsb)
18	c3r7kB_			100.0	14	PDB header: oxidoreductase Chain: B; PDB Molecule: probable acyl coa dehydrogenase; PDBTitle: crystal structure of a probable acyl coa dehydrogenase from2 mycobacterium abscessus atcc 19977 / dsm 44196
19	c5ahsB_			100.0	16	PDB header: oxidoreductase Chain: B; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: 3-sulfinopropionyl-coenzyme a (3sp-coa) desulfinate from advenella2 mimgardefordensis dpn7t: holo crystal structure with the substrate3 analog succinyl-coa
20	c1legcB_			100.0	16	PDB header: electron transfer Chain: B; PDB Molecule: medium chain acyl-coa dehydrogenase; PDBTitle: structure of t255e, e376g mutant of human medium chain acyl-2 coa dehydrogenase complexed with octanoyl-coa
21	c1siqA_		not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: the crystal structure and mechanism of human glutaryl-coa2 dehydrogenase
22	c3swoA_		not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: crystal structure of a glutaryl-coa dehydrogenase from mycobacterium2 smegmatis in complex with fadh2
23	c4y9lB_		not modelled	100.0	14	PDB header: oxidoreductase Chain: B; PDB Molecule: protein acdh-11, isoform b; PDBTitle: crystal structure of caenorhabditis elegans acdh-11
24	c4n5fA_		not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: putative acyl-coa dehydrogenase; PDBTitle: crystal structure of a putative acyl-coa dehydrogenase with bound2 fadh2 from burkholderia cenocepacia j2315
25	c6cy8B_		not modelled	100.0	16	PDB header: biosynthetic protein Chain: B; PDB Molecule: butyryl-coa dehydrogenase; PDBTitle: crystal structure of fad-dependent dehydrogenase
26	c3sf6A_		not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: crystal structure of glutaryl-coa dehydrogenase from mycobacterium2 smegmatis
27	c1w07A_		not modelled	100.0	13	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coa oxidase; PDBTitle: arabidopsis thaliana acyl-coa oxidase 1
28	c5ol2F_		not modelled	100.0	18	PDB header: flavoprotein Chain: F; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: the electron transferring flavoprotein/butyryl-coa dehydrogenase2 complex from clostridium difficile
						PDB header: oxidoreductase

29	c2vigC_	Alignment	not modelled	100.0	19	Chain: C; PDB Molecule: short-chain specific acyl-coa dehydrogenase.; PDBTitle: crystal structure of human short-chain acyl coa dehydrogenase
30	c3mkhC_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: C; PDB Molecule: nitroalkane oxidase; PDBTitle: podospora anserina nitroalkane oxidase
31	c2cx9C_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: C; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase
32	c2fonA_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: A; PDB Molecule: peroxisomal acyl-coa oxidase 1a; PDBTitle: x-ray crystal structure of leacx1, an acyl-coa oxidase from <i>lycopersicon esculentum</i> (tomato)
33	c3eomD_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: D; PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: 2.4 a crystal structure of native glutaryl-coa dehydrogenase from <i>burkholderia pseudomallei</i>
34	c4l1fB_	Alignment	not modelled	100.0	18	PDB header: electron transport Chain: B; PDB Molecule: acyl-coa dehydrogenase domain protein; PDBTitle: electron transferring flavoprotein of <i>acidaminococcus fermentans</i> :2 towards a mechanism of flavin-based electron bifurcation
35	c2ddhA_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coa oxidase; PDBTitle: crystal structure of acyl-coa oxidase complexed with 3-oh-dodecanoate
36	c1ukwA_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of medium-chain acyl-coa dehydrogenase2 from <i>thermus thermophilus</i> hb8
37	c6fahD_	Alignment	not modelled	100.0	19	PDB header: flavoprotein Chain: D; PDB Molecule: caffeyl-coa reductase-etf complex subunit carc; PDBTitle: molecular basis of the flavin-based electron-bifurcating caffeyl-coa2 reductase reaction
38	c3djlA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: protein aidb; PDBTitle: crystal structure of alkylation response protein e. coli aidb
39	c3nf4B_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase from <i>mycobacterium2 thermoresistibile</i> bound to flavin adenine dinucleotide
40	c4iv6A_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coa dehydrogenase fade3; PDBTitle: x-ray crystal structure of an isovaleryl-coa dehydrogenase from <i>mycobacterium smegmatis</i>
41	c2rehD_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: D; PDB Molecule: nitroalkane oxidase; PDBTitle: mechanistic and structural analyses of the roles of arg4092 and asp402 in the reaction of the flavoprotein nitroalkane3 oxidase
42	c5y9dA_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coenzyme a oxidase 1; PDBTitle: crystal structure of acyl-coa oxidase1 from <i>yarrowia lipolytica</i>
43	c4u83A_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: structure of <i>brucella abortus</i> butyryl-coa dehydrogenase
44	c2ebaI_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: I; PDB Molecule: putative glutaryl-coa dehydrogenase; PDBTitle: crystal structure of the putative glutaryl-coa dehydrogenase from <i>thermus thermophilus</i>
45	c3mpjG_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: G; PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: structure of the glutaryl-coenzyme a dehydrogenase
46	c2dvlB_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of project tt0160 from <i>thermus thermophilus</i> hb8
47	c5k3iH_	Alignment	not modelled	100.0	10	PDB header: oxidoreductase Chain: H; PDB Molecule: acyl-coenzyme a oxidase; PDBTitle: crystal structure of acyl-coa oxidase-1 in <i>caenorhabditis elegans</i> 2 complexed with fad and atp
48	c4w9uD_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: D; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of an acyl-coa dehydrogenase from <i>brucella2 melitensis</i>
49	c4x28B_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of the chse4-chse5 complex from <i>mycobacterium2 tuberculosis</i>
50	c5ys9A_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coenzyme a oxidase 3; PDBTitle: crystal structure of acyl-coa oxidase3 from <i>yarrowia lipolytica</i>
51	c3pfdB_	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B; PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of an acyl-coa dehydrogenase from <i>mycobacterium2 thermoresistibile</i> bound to reduced flavin adenine dinucleotide solved3 by combined iodide ion sad mr
52	c5k3jA_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: A; PDB Molecule: acyl-coenzyme a oxidase; PDBTitle: crystals structure of acyl-coa oxidase-2 in <i>caenorhabditis elegans</i> 2 bound with fad, ascaroside-coa, and atp
53	c1bucB_	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B; PDB Molecule: butyryl-coa dehydrogenase; PDBTitle: three-dimensional structure of butyryl-coa

						dehydrogenase from2 megasphaera elsdenii PDB header: oxidoreductase Chain: A: PDB Molecule: protein fkbj; PDBTitle: fkbj for biosynthesis of methoxymalonyl extender unit of fk5202 polyketide immunosuppressant
54	c1r2jA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase family member 11; PDBTitle: crystal structure of human acyl-coa dehydrogenase 11
55	c2wbiB_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: B: PDB Molecule: isovaleryl-coa dehydrogenase; PDBTitle: crystal structure of a putative isovaleryl-coa dehydrogenase (psi-2 nysgrc-012251) from sinorhizobium meliloti 1021
56	c4ktoB_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: the crystal structure of acyl-coa dehydrogenase from slackia2 heliotrinireducens dsm 20476
57	c4rm7A_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: C: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of mmgc, an acyl-coa dehydrogenase from bacillus2 subtilis.
58	c5lnxC_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: E: PDB Molecule: dibenzothiophene desulfurization enzyme c; PDBTitle: crystal structure of dibenzothiophene desulfurization enzyme c
59	c4doyE_	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-[acyl-carrier-protein] dehydrogenase mbtn; PDBTitle: crystal structure of an acyl-acp dehydrogenase
60	c4m6zB_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: B: PDB Molecule: thermophilic dibenzothiophene desulfurization enzyme c; PDBTitle: crystal structure of indole-bound tdsc from paenibacillus sp. a11-2
61	c5xdcB_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: D: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of the chse4-chse5 complex from mycobacterium2 tuberculosis
62	c4x28D_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase type 2 domain protein; PDBTitle: putative acyl-coa dehydrogenase
63	c5gj7A_	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent oxidoreductase; PDBTitle: x-ray structure of a kjd3 in complex with dtdp
64	c3m9vA_	Alignment	not modelled	100.0	11	PDB header: oxidoreductase Chain: A: PDB Molecule: p-hydroxyphenylacetate hydroxylase c2\;oxygenase PDBTitle: structure of the monooxygenase component of p-2 hydroxyphenylacetate hydroxylase from acinetobacter3 baumannii
65	c2jbtA_	Alignment	not modelled	100.0	11	PDB header: oxidoreductase Chain: R: PDB Molecule: xiaf protein; PDBTitle: xiaf from streptomyces sp. in complex with fadh2 and glycerol
66	c5mr6R_	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: dnmz; PDBTitle: streptomyces peucetius nitrososynthase dnmz in ligand-free state
67	c4zxvB_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hsa hydroxylase, oxygenase; PDBTitle: crystal structure of 3-hsa hydroxylase from rhodococcus sp. rha1
68	c2rfqA_	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: B: PDB Molecule: hydroxylase; PDBTitle: structural genomics, the crystal structure of a putative hydroxylase2 from rhodococcus sp. rha1
69	c2or0B_	Alignment	not modelled	100.0	10	PDB header: oxidoreductase Chain: B: PDB Molecule: nitrososynthase; PDBTitle: crystal structure of nitrososynthase from micromonospora carbonacea2 var. africana
70	c3mxlB_	Alignment	not modelled	100.0	13	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
71	d1jqia2	Alignment	not modelled	100.0	18	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
72	d2c12a2	Alignment	not modelled	100.0	14	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
73	c3hwcD_	Alignment	not modelled	100.0	7	PDB header: oxidoreductase Chain: D: PDB Molecule: chlorophenol-4-monooxygenase component 2; PDBTitle: crystal structure of chlorophenol 4-monooxygenase (tftd) of2 burkholderia cepacia ac1100
74	d2ddha3	Alignment	not modelled	100.0	12	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: acyl-CoA oxidase N-terminal domains
75	d1rx0a2	Alignment	not modelled	100.0	15	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
76	d1w07a3	Alignment	not modelled	100.0	12	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: acyl-CoA oxidase N-terminal domains
77	d1lukwa2	Alignment	not modelled	100.0	16	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
78	d2d2a2	Alignment	not modelled	100.0	20	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like

78	d2u29a2	Alignment	not modelled	100.0	20	Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
79	d3mdea2	Alignment	not modelled	100.0	15	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
80	d1buca2	Alignment	not modelled	100.0	21	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
81	d1legda2	Alignment	not modelled	100.0	15	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
82	d1ivha2	Alignment	not modelled	100.0	17	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
83	d1r2ja2	Alignment	not modelled	100.0	16	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
84	d1siga2	Alignment	not modelled	100.0	15	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
85	c4g5eD	Alignment	not modelled	100.0	9	PDB header: oxidoreductase Chain: D: PDB Molecule: 2,4,6-trichlorophenol 4-monooxygenase; PDBTitle: 2,4,6-trichlorophenol 4-monooxygenase
86	c2yyjA	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylacetate-3-hydroxylase; PDBTitle: crystal structure of the oxygenase component (hpab) of 4-2 hydroxyphenylacetate 3-monooxygenase complexed with fad and 4-3 hydroxyphenylacetate
87	clu8vA	Alignment	not modelled	100.0	12	PDB header: lyase, isomerase Chain: A: PDB Molecule: gamma-aminobutyrate metabolism dehydratase/isomerase; PDBTitle: crystal structure of 4-hydroxybutyryl-coa dehydratase from clostridium2 aminobutyricum: radical catalysis involving a [4fe-4s] cluster and3 flavin
88	d1w07a1	Alignment	not modelled	100.0	12	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: acyl-CoA oxidase C-terminal domains
89	d2ddha1	Alignment	not modelled	100.0	13	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: acyl-CoA oxidase C-terminal domains
90	d1rx0a1	Alignment	not modelled	100.0	17	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
91	d1siga1	Alignment	not modelled	100.0	16	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
92	d1ivha1	Alignment	not modelled	100.0	14	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
93	d3mdea1	Alignment	not modelled	100.0	20	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
94	d1legda1	Alignment	not modelled	100.0	16	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
95	d2c12a1	Alignment	not modelled	100.0	17	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
96	d1ukwa1	Alignment	not modelled	100.0	19	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
97	d1jqia1	Alignment	not modelled	100.0	18	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
98	d2d29a1	Alignment	not modelled	100.0	19	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
99	d1buca1	Alignment	not modelled	100.0	17	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
100	d1r2ja1	Alignment	not modelled	100.0	22	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
101	c6eb0A	Alignment	not modelled	100.0	11	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylacetate 3-monooxygenase, oxygenase subunit; PDBTitle: structure of 4-hydroxyphenylacetate 3-monooxygenase (hpab), oxygenase2 component from escherichia coli
102	d1u8va2	Alignment	not modelled	99.8	10	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: Medium chain acyl-CoA dehydrogenase, NM (N-terminal and middle) domains
103	c4g5eD	Alignment	not modelled	99.4	10	PDB header: oxidoreductase Chain: D: PDB Molecule: chlorophenol-4-monooxygenase;

103	c8u0z0_	Alignment	not modelled	93.4	10	PDBTitle: streptomyces globisporus c-1027 fad dependent (s)-3-chloro-β-2 tyrosine-s-sgcc2 c-5 hydroxylase sgcc apo form Fold: Bromodomain-like
104	d1u8va1	Alignment	not modelled	86.3	15	Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
105	d2ddha2	Alignment	not modelled	46.2	17	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: acyl-CoA oxidase C-terminal domains
106	c5okzj_	Alignment	not modelled	37.1	30	PDB header: rna binding protein Chain: J: PDB Molecule: m-phase phosphoprotein 6 homolog; PDBTitle: crystal structure of the mpp6 exosome complex
107	d1w07a2	Alignment	not modelled	35.2	15	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: acyl-CoA oxidase C-terminal domains
108	d1rr7a_	Alignment	not modelled	27.6	9	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Middle operon regulator, Mor
109	c1rr7A_	Alignment	not modelled	27.6	9	PDB header: transcription Chain: A: PDB Molecule: middle operon regulator; PDBTitle: crystal structure of the middle operon regulator protein of2 bacteriophage mu