






















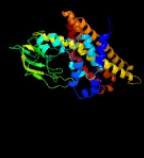


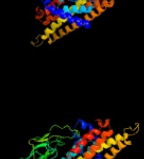



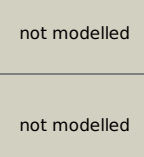


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3570c_(-)_4011265_4012449
Date	Fri Aug 9 18:20:25 BST 2019
Unique Job ID	d058bed563ebee01

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2rfqA_	 Alignment		100.0	76	PDB header: oxidoreductase Chain: A: PDB Molecule: 3-hsa hydroxylase, oxygenase; PDBTitle: crystal structure of 3-hsa hydroxylase from rhodococcus sp. rha1
2	c5mr6R_	 Alignment		100.0	28	PDB header: oxidoreductase Chain: R: PDB Molecule: xiaf protein; PDBTitle: xiaf from streptomyces sp. in complex with fadh2 and glycerol
3	c2jbtA_	 Alignment		100.0	33	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
4	c2or0B_	 Alignment		100.0	39	PDB header: oxidoreductase Chain: B: PDB Molecule: hydroxylase; PDBTitle: structural genomics, the crystal structure of a putative hydroxylase2 from rhodococcus sp. rha1
5	c2ix5A_	 Alignment		100.0	13	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
6	c6es9A_	 Alignment		100.0	16	PDB header: flavoprotein Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: methylsuccinyl-coa dehydrogenase of paracoccus denitrificans with2 bound flavin adenine dinucleotide
7	c1rx0B_	 Alignment		100.0	15	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.
8	c4doyE_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: E: PDB Molecule: dibenzothiophene desulfurization enzyme c; PDBTitle: crystal structure of dibenzothiophene desulfurization enzyme c
9	c5ahsB_	 Alignment		100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: 3-sulfino-propionyl-coenzyme a (3sp-coa) desulfinase from advenella2 mimgardefordensis dpn7t: holo crystal structure with the substrate3 analog succinyl-coa
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	c1lukwA_	 Alignment		100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of medium-chain acyl-coa dehydrogenase2 from thermus thermophilus hb8

12	c2z1qA_	Alignment		100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl coa dehydrogenase
13	c5zw2A_	Alignment		100.0	15	PDB header: biosynthetic protein Chain: A: PDB Molecule: l-prolyl-[peptidyl-carrier protein] dehydrogenase; PDBTitle: fad complex of piga
14	c5gj7A_	Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase type 2 domain protein; PDBTitle: putative acyl-coa dehydrogenase
15	c5xdcB_	Alignment		100.0	21	PDB header: oxidoreductase Chain: B: PDB Molecule: thermophilic dibenzothiophene desulfurization enzyme c; PDBTitle: crystal structure of indole-bound tdsc from paenibacillus sp. a11-2
16	c2pg0B_	Alignment		100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase from geobacillus2 kaustophilus
17	c2cx9C_	Alignment		100.0	20	PDB header: oxidoreductase Chain: C: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase
18	c3eomD_	Alignment		100.0	16	PDB header: oxidoreductase Chain: D: PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: 2.4 a crystal structure of native glutaryl-coa dehydrogenase from2 burkholderia pseudomallei
19	c4irnF_	Alignment		100.0	14	PDB header: oxidoreductase Chain: F: PDB Molecule: prolyl-acyl carrier protein oxidase anab PDBTitle: crystal structure of the prolyl acyl carrier protein oxidase anab
20	c1r2jA_	Alignment		100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: protein fkbj; PDBTitle: fkbj for biosynthesis of methoxymalonyl extender unit of fk5202 polyketide immunosuppressant
21	c1egcB_	Alignment	not modelled	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
22	c2uxwA_	Alignment	not modelled	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)
23	c4n5fA_	Alignment	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
24	c2jifA_	Alignment	not modelled	100.0	18	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)
25	c3swoA_	Alignment	not modelled	100.0	13	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
26	c4iv6A_	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase fade3; PDBTitle: x-ray crystal structure of an isovaleryl-coa dehydrogenase from2 mycobacterium smegmatis
27	c6cy8B_	Alignment	not modelled	100.0	15	PDB header: biosynthetic protein Chain: B: PDB Molecule: butyryl-coa dehydrogenase; PDBTitle: crystal structure of fad-dependent dehydrogenase
28	c1ivhD_	Alignment	not modelled	100.0	14	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
29	c3owaC	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: C: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase complexed with fad from2 bacillus anthracis
30	c3nf4B	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of acyl-coa dehydrogenase from mycobacterium2 thermoresistibile bound to flavin adenine dinucleotide
31	c411fB	Alignment	not modelled	100.0	16	PDB header: electron transport Chain: B: PDB Molecule: acyl-coa dehydrogenase domain protein; PDBTitle: electron transferring flavoprotein of acidaminococcus fermentans:2 towards a mechanism of flavin-based electron bifurcation
32	c3pfdB	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of an acyl-coa dehydrogenase from mycobacterium2 thermoresistibile bound to reduced flavin adenine dinucleotide solved3 by combined iodide ion sad mr
33	c3sf6A	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: crystal structure of glutaryl-coa dehydrogenase from mycobacterium2 smegmatis
34	c5ol2F	Alignment	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
35	c3oibB	Alignment	not modelled	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
36	c2vigC	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: C: PDB Molecule: short-chain specific acyl-coa dehydrogenase,; PDBTitle: crystal structure of human short-chain acyl coa dehydrogenase
37	c1siqA	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: the crystal structure and mechanism of human glutaryl-coa2 dehydrogenase
38	c3r7kB	Alignment	not modelled	100.0	17	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
39	c3mkhC	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: C: PDB Molecule: nitroalkane oxidase; PDBTitle: podospora anserina nitroalkane oxidase
40	c4u83A	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: structure of brucella abortus butyryl-coa dehydrogenase
41	c2ebal	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: I: PDB Molecule: putative glutaryl-coa dehydrogenase; PDBTitle: crystal structure of the putative glutaryl-coa dehydrogenase from2 thermus thermophilus
42	c6fahD	Alignment	not modelled	100.0	17	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
43	c2dvlB	Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of project tt0160 from thermus thermophilus hb8
44	c6ijcA	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase family protein; PDBTitle: structure of mmpa-coa dehydrogenase from roseovarius nubinhibens ism
45	c3m9vA	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A: PDB Molecule: fad-dependent oxidoreductase; PDBTitle: x-ray structure of a kijd3 in complex with dtdp
46	c1bucB	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: B: PDB Molecule: butyryl-coa dehydrogenase; PDBTitle: three-dimensional structure of butyryl-coa dehydrogenase from2 megasphaera elsdanii
47	c3mpjG	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: G: PDB Molecule: glutaryl-coa dehydrogenase; PDBTitle: structure of the glutaryl-coenzyme a dehydrogenase
48	c5lnxC	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: C: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of mmgc, an acyl-coa dehydrogenase from bacillus2 subtilis.
49	c4ktoB	Alignment	not modelled	100.0	15	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
50	c2rehD	Alignment	not modelled	100.0	12	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
51	c4hr3A	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: A: PDB Molecule: putative acyl-coa dehydrogenase; PDBTitle: structure of a putative acyl-coa dehydrogenase from mycobacterium2 abscessus
52	c4m6zB	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-[acyl-carrier-protein] dehydrogenase mbtn; PDBTitle: crystal structure of an acyl-acp dehydrogenase

53	c5iduB	Alignment	not modelled	100.0	16	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
54	c4zxvB	Alignment	not modelled	100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: dnmz; PDBTitle: streptomyces peucetius nitrososynthase dnmz in ligand-free state
55	c4x28B	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of the chse4-chse5 complex from mycobacterium2 tuberculosis
56	c4w9uD	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: D: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of an acyl-coa dehydrogenase from brucella2 melitensis
57	c2wbiB	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase family member 11; PDBTitle: crystal structure of human acyl-coa dehydrogenase 11
58	c4rm7A	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: the crystal structure of acyl-coa dehydrogenase from slackia2 heliotrinireducens dsm 20476
59	c3mxlB	Alignment	not modelled	100.0	17	PDB header: oxidoreductase Chain: B: PDB Molecule: nitrososynthase; PDBTitle: crystal structure of nitrososynthase from micromonospora carbonacea2 var. africana
60	c4x28D	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: D: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure of the chse4-chse5 complex from mycobacterium2 tuberculosis
61	c5ez3B	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: acyl-coa dehydrogenase; PDBTitle: crystal structure acyl-coa dehydrogenase from brucella melitensis in2 complex with fad
62	c3djlA	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: protein aidb; PDBTitle: crystal structure of alkylation response protein e. coli aidb
63	c4y9lB	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: protein acdh-11, isoform b; PDBTitle: crystal structure of caenorhabditis elegans acdh-11
64	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 caenorhabditis elegans2 bound with fad, ascaroside-coa, and atp
65	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
66	c1w07A	Alignment	not modelled	100.0	11	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coa oxidase; PDBTitle: arabidopsis thaliana acyl-coa oxidase 1
67	c2fonA	Alignment	not modelled	100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: peroxisomal acyl-coa oxidase 1a; PDBTitle: x-ray crystal structure of leacx1, an acyl-coa oxidase from2 lycopersicon esculentum (tomato)
68	c5k3iH	Alignment	not modelled	100.0	13	PDB header: oxidoreductase Chain: H: PDB Molecule: acyl-coenzyme a oxidase; PDBTitle: crystal structure of acyl-coa oxidase-1 in caenorhabditis elegans2 complexed with fad and atp
69	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 yarrowia lipolytica
70	c5ys9A	Alignment	not modelled	100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: acyl-coenzyme a oxidase 3; PDBTitle: crystal structure of acyl-coa oxidase3 from yarrowia lipolytica
71	d1r2ja2	Alignment	not modelled	100.0	19	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	d3mdea2	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
73	d1rx0a2	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
74	d2d29a2	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
75	d1egda2	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
76	d1ukwa2	Alignment	not modelled	100.0	19	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
77	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
78	d1buca2	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

79	d2c12a2	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	d1ivha2	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
81	d1sqa2	Alignment	not modelled	100.0	12	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	c3hwcD	Alignment	not modelled	100.0	15	PDB header: oxidoreductase Chain: D: PDB Molecule: chlorophenol-4-monooxygenase component 2; PDBTitle: crystal structure of chlorophenol 4-monooxygenase (tftd) of2 burkholderia cepacia ac1100
83	d2ddha3	Alignment	not modelled	100.0	13	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: acyl-CoA oxidase N-terminal domains
84	d1sqa1	Alignment	not modelled	99.9	12	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
85	c4g5eD	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: D: PDB Molecule: 2,4,6-trichlorophenol 4-monooxygenase; PDBTitle: 2,4,6-trichlorophenol 4-monooxygenase
86	d2c12a1	Alignment	not modelled	99.9	8	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
87	d1w07a3	Alignment	not modelled	99.9	14	Fold: Acyl-CoA dehydrogenase NM domain-like Superfamily: Acyl-CoA dehydrogenase NM domain-like Family: acyl-CoA oxidase N-terminal domains
88	d1r2ja1	Alignment	not modelled	99.9	19	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
89	d3mdea1	Alignment	not modelled	99.9	15	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
90	d1ivha1	Alignment	not modelled	99.9	13	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
91	d1rx0a1	Alignment	not modelled	99.9	14	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
92	d1egda1	Alignment	not modelled	99.9	15	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
93	d1jqia1	Alignment	not modelled	99.9	16	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
94	clu8vA	Alignment	not modelled	99.9	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
95	d1lukwa1	Alignment	not modelled	99.9	15	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
96	d1buca1	Alignment	not modelled	99.9	19	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
97	d2d29a1	Alignment	not modelled	99.9	19	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
98	d1w07a1	Alignment	not modelled	99.9	9	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: acyl-CoA oxidase C-terminal domains
99	d2ddha1	Alignment	not modelled	99.9	10	Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: acyl-CoA oxidase C-terminal domains
100	c2yyjA	Alignment	not modelled	99.9	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
101	c6eb0A	Alignment	not modelled	99.9	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	99.6	8	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	c4oo2D	Alignment	not modelled	99.2	13	PDB header: oxidoreductase Chain: D: PDB Molecule: chlorophenol-4-monooxygenase; PDBTitle: streptomyces globosporus c-1027 fad dependent (s)-3-

104	dlu8va1	Alignment	not modelled	84.7	chloro-β-2 tyrosine-s-gccc2 c-5 hydroxylase sgcc apo form Fold: Bromodomain-like Superfamily: Acyl-CoA dehydrogenase C-terminal domain-like Family: Medium chain acyl-CoA dehydrogenase-like, C-terminal domain
-----	-------------------------	-----------	--------------	------	---