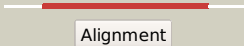

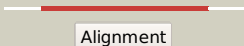

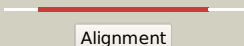







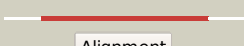












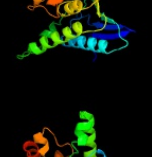
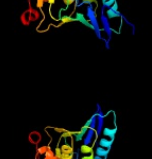



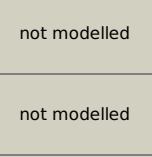


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD3373_(echA18)_3787906_3788547
 Date Fri Aug 9 18:20:04 BST 2019
 Unique Job ID 13cb06c6702a0966

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4k2nA_	 Alignment		100.0	38	PDB header: isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/carnithine racemase; PDBTitle: crystal structure of an enoyl-coa hydratase/ carnithine racemase from2 magnetospirillum magneticum
2	c5jbxB_	 Alignment		100.0	32	PDB header: lyase Chain: B; PDB Molecule: 3-hydroxybutyryl-coa dehydratase; PDBTitle: crystal structure of liuc in complex with coenzyme a and malonic acid
3	c3t88A_	 Alignment		100.0	27	PDB header: lyase/lyase inhibitor Chain: A; PDB Molecule: 1,4-dihydroxy-2-naphthoyl-coa synthase; PDBTitle: crystal structure of escherichia coli menb in complex with substrate2 analogue, osb-ncoa
4	c5z7rA_	 Alignment		100.0	38	PDB header: lyase Chain: A; PDB Molecule: short-chain-enoyl-coa hydratase; PDBTitle: crystal structure of crotonase from clostridium acetobutylicum
5	c3g64A_	 Alignment		100.0	28	PDB header: lyase Chain: A; PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of putative enoyl-coa hydratase from streptomyces2 coelicolor a3(2)
6	c4hdtA_	 Alignment		100.0	21	PDB header: isomerase Chain: A; PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of a carnitiny-coa dehydratase from mycobacterium2 thermoresistibile
7	c4j2uA_	 Alignment		100.0	24	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of an enoyl-coa hydratase from rhodobacter2 sphaeroides 2.4.1
8	c4olqD_	 Alignment		100.0	32	PDB header: lyase Chain: D; PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of a putative enoyl-coa hydratase/isomerase family2 protein from hyphomonas neptunium
9	c3lkeA_	 Alignment		100.0	25	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from bacillus halodurans
10	c3rrvC_	 Alignment		100.0	25	PDB header: isomerase Chain: C; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium paratuberculosis
11	c3bptA_	 Alignment		100.0	24	PDB header: hydrolase Chain: A; PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of human beta-hydroxyisobutyryl-coa hydrolase in2 complex with quercetin

12	c2w3pB	Alignment		100.0	24	PDB header: lyase Chain: B; PDB Molecule: benzoyl-coa-dihydrodiol lyase; PDBTitle: boxc crystal structure
13	c4jcsA	Alignment		100.0	23	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of enoyl-coa hydratase/isomerase from cupriavidus2 metallidurans ch34
14	c4wczB	Alignment		100.0	35	PDB header: isomerase Chain: B; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a putative enoyl-coa hydratase/isomerase from2 novosphingobium aromaticivorans
15	d1pjha	Alignment		100.0	14	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
16	c4izbB	Alignment		100.0	31	PDB header: hydrolase Chain: B; PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of dmdd, a crotonase superfamily enzyme that2 catalyzes the hydration and hydrolysis of methylthioacryloyl-coa
17	d1nzya	Alignment		100.0	25	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
18	c5zaiB	Alignment		100.0	31	PDB header: hydrolase Chain: B; PDB Molecule: 3-hydroxypropionyl-coenzyme a dehydratase; PDBTitle: crystal structure of 3-hydroxypropionyl-coa dehydratase from2 metallosphaera sedula
19	c3i47A	Alignment		100.0	30	PDB header: lyase Chain: A; PDB Molecule: enoyl coa hydratase/isomerase (crotonase); PDBTitle: crystal structure of putative enoyl coa hydratase/isomerase2 (crotonase) from legionella pneumophila subsp. pneumophila str.3 philadelphia 1
20	c4zu2A	Alignment		100.0	30	PDB header: hydrolase Chain: A; PDB Molecule: putative isohexenylglutaconyl-coa hydratase; PDBTitle: pseudomonas aeruginosa atue
21	c4kpkA	Alignment	not modelled	100.0	20	PDB header: isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase from shewanella pealeana2 atcc 700345
22	c2iexA	Alignment	not modelled	100.0	29	PDB header: lyase Chain: A; PDB Molecule: dihydroxynaphthoic acid synthetase; PDBTitle: crystal structure of dihydroxynaphthoic acid synthetase (gk2873) from2 geobacillus kaustophilus hta426
23	c3r0oA	Alignment	not modelled	100.0	33	PDB header: lyase Chain: A; PDB Molecule: carnitiny-coa dehydratase; PDBTitle: crystal structure of carnitiny-coa hydratase from mycobacterium avium
24	c2qq3F	Alignment	not modelled	100.0	33	PDB header: lyase Chain: F; PDB Molecule: enoyl-coa hydratase subunit i; PDBTitle: crystal structure of enoyl-coa hydrates subunit i (gk_2039)2 other form from geobacillus kaustophilus hta426
25	c4mouA	Alignment	not modelled	100.0	30	PDB header: isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase family member,2 nysgrc target 028282
26	c3hinA	Alignment	not modelled	100.0	28	PDB header: lyase Chain: A; PDB Molecule: putative 3-hydroxybutyryl-coa dehydratase; PDBTitle: crystal structure of putative enoyl-coa hydratase from2 rhodospseudomonas palustris cga009
27	c3h81A	Alignment	not modelled	100.0	38	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa8; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium2 tuberculosis
28	c2i5f	Alignment	not modelled	100.0	25	PDB header: lyase Chain: F; PDB Molecule: p-hydroxycinnamoyl coa hydratase/lyase;

28	c2p1l_	Alignment	not modelled	100.0	23	PDBTitle: crystal structure of hydroxycinnamoyl-coa hydratase-lyase PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative enoyl-coa hydratase;
29	c3gkBA	Alignment	not modelled	100.0	23	PDBTitle: crystal structure of a putative enoyl-coa hydratase from streptomyces2 avermitilis
30	c5zqzC	Alignment	not modelled	100.0	22	PDB header: lyase,hydrolase/transferase Chain: C: PDB Molecule: trifunctional enzyme subunit alpha, mitochondrial;
31	d1hzda	Alignment	not modelled	100.0	29	PDBTitle: structure of human mitochondrial trifunctional protein, tetramer Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
32	c4jfcA	Alignment	not modelled	100.0	28	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase;
33	c4nekD	Alignment	not modelled	100.0	25	PDBTitle: crystal structure of a enoyl-coa hydratase from polaromonas sp. js666 PDB header: isomerase Chain: D: PDB Molecule: enoyl-coa hydratase/carnithine racemase;
34	c3ju1A	Alignment	not modelled	100.0	23	PDBTitle: putative enoyl-coa hydratase/carnithine racemase from magnetospirillum2 magneticum amb-1 PDB header: lyase, isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase family protein;
35	c3njbA	Alignment	not modelled	100.0	24	PDBTitle: crystal structure of enoyl-coa hydratase/isomerase family protein PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase;
36	c5wybB	Alignment	not modelled	100.0	30	PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium smegmatis,2 iodide soak PDB header: isomerase Chain: B: PDB Molecule: probable enoyl-coa hydratase/isomerase;
37	c3h0uB	Alignment	not modelled	100.0	25	PDBTitle: structure of pseudomonas aeruginosa dspi PDB header: lyase Chain: B: PDB Molecule: putative enoyl-coa hydratase;
38	c2d3tB	Alignment	not modelled	100.0	21	PDBTitle: crystal structure of a putative enoyl-coa hydratase from streptomyces2 avermitilis PDB header: lyase, oxidoreductase/transferase Chain: B: PDB Molecule: fatty oxidation complex alpha subunit;
39	c3moyA	Alignment	not modelled	100.0	36	PDBTitle: fatty acid beta-oxidation multienzyme complex from2 pseudomonas fragi, form v PDB header: lyase Chain: A: PDB Molecule: probable enoyl-coa hydratase;
40	c4fzwA	Alignment	not modelled	100.0	36	PDBTitle: crystal structure of probable enoyl-coa hydratase from mycobacterium2 smegmatis PDB header: isomerase/lyase Chain: A: PDB Molecule: 2,3-dehydroadipyl-coa hydratase;
41	d1wdka4	Alignment	not modelled	100.0	21	PDBTitle: crystal structure of the paaf-paag hydratase-isomerase complex from2 e.coli Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
42	c3hrxD	Alignment	not modelled	100.0	29	PDB header: lyase Chain: D: PDB Molecule: probable enoyl-coa hydratase;
43	d1dcia	Alignment	not modelled	100.0	25	PDBTitle: crystal structure of phenylacetic acid degradation protein paag Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
44	d2a7ka1	Alignment	not modelled	100.0	24	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
45	c4i4zE	Alignment	not modelled	100.0	26	PDB header: lyase Chain: E: PDB Molecule: naphthoate synthase;
46	c5yloA	Alignment	not modelled	100.0	28	PDBTitle: synechocystis sp. pcc 6803 1,4-dihydroxy-2-naphthoyl-coenzyme a2 synthase (menb) in complex with salicylyl-coa PDB header: hydrolase Chain: A: PDB Molecule: probable enoyl-coa hydratase/isomerase;
47	c2vx2D	Alignment	not modelled	100.0	28	PDBTitle: structural of pseudomonas aeruginosa pa4980 PDB header: isomerase Chain: D: PDB Molecule: enoyl-coa hydratase domain-containing protein 3;
48	d2fw2a1	Alignment	not modelled	100.0	20	PDBTitle: crystal structure of human enoyl coenzyme a hydratase2 domain-containing protein 3 (echdc3) Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
49	c4di1A	Alignment	not modelled	100.0	28	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase echa17;
50	c6iunB	Alignment	not modelled	100.0	33	PDBTitle: crystal structure of enoyl-coa hydratase echa17 from mycobacterium2 marinum PDB header: oxidoreductase Chain: B: PDB Molecule: enoyl-coa hydratase/delta(3)-cis-delta(2)-trans-enoyl-coa PDBTitle: crystal structure of enoyl-coa hydratase (ech) from ralstonia eutropha2 h16 in complex with nad
51	c3kqfC	Alignment	not modelled	100.0	33	PDB header: isomerase Chain: C: PDB Molecule: enoyl-coa hydratase/isomerase family protein;
52	c4og1A	Alignment	not modelled	100.0	28	PDBTitle: 1.8 angstrom resolution crystal structure of enoyl-coa hydratase from2 bacillus anthracis. PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase;
53	c4intA	Alignment	not modelled	100.0	27	PDBTitle: crystal structure of a putative enoyl-coa hydratase from2 novosphingobium aromaticivorans dsm 12444 PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, putative;

53	c4jvA_	Alignment	not modelled	100.0	27	PDBTitle: crystal structure of enoyl-coa hydratase from deinococcus radiodurans2 r1 PDB header: isomerase
54	c3p5mB_	Alignment	not modelled	100.0	31	Chain: B: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium avium
55	c2ej5B_	Alignment	not modelled	100.0	30	PDB header: lyase Chain: B: PDB Molecule: enoyl-coa hydratase subunit ii; PDBTitle: crystal structure of gk2038 protein (enoyl-coa hydratase subunit ii)2 from geobacillus kaustophilus
56	c4mi2C_	Alignment	not modelled	100.0	32	PDB header: isomerase Chain: C: PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
57	c3q1tB_	Alignment	not modelled	100.0	25	PDB header: lyase Chain: B: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium avium
58	c2hw5F_	Alignment	not modelled	100.0	36	PDB header: lyase Chain: F: PDB Molecule: enoyl-coa hydratase; PDBTitle: the crystal structure of human enoyl-coenzyme a (coa) hydratase short2 chain 1, echs1
59	c2x58B_	Alignment	not modelled	100.0	33	PDB header: :oxidoreductase Chain: B: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: the crystal structure of mfe1 liganded with coa
60	d1wz8a1	Alignment	not modelled	100.0	32	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
61	c5ve2J_	Alignment	not modelled	100.0	26	PDB header: isomerase,lyase Chain: J: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase/isomerase from2 pseudoalteromonas atlantica t6c at 2.3 a resolution.
62	c4b3hA_	Alignment	not modelled	100.0	25	PDB header: :oxidoreductase/transferase Chain: A: PDB Molecule: fatty acid beta-oxidation complex alpha-chain fadb; PDBTitle: crystal structure of mycobacterium tuberculosis fatty acid2 beta-oxidation complex
63	c4jylE_	Alignment	not modelled	100.0	31	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from thermoplasma volcanium2 gss1
64	d1xx4a_	Alignment	not modelled	100.0	27	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
65	c2f6qA_	Alignment	not modelled	100.0	23	PDB header: isomerase Chain: A: PDB Molecule: peroxisomal 3,2-trans-enoyl-coa isomerase; PDBTitle: the crystal structure of human peroxisomal delta3, delta2 enoyl coa2 isomerase (peci)
66	c3h02F_	Alignment	not modelled	100.0	30	PDB header: lyase Chain: F: PDB Molecule: naphthoate synthase; PDBTitle: 2.15 angstrom resolution crystal structure of naphthoate synthase from2 salmonella typhimurium.
67	d2f6qa1	Alignment	not modelled	100.0	24	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
68	c3peaD_	Alignment	not modelled	100.0	33	PDB header: isomerase Chain: D: PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of enoyl-coa hydratase from bacillus anthracis str.2 'ames ancestor'
69	c3hp0B_	Alignment	not modelled	100.0	24	PDB header: lyase Chain: B: PDB Molecule: putative polyketide biosynthesis enoyl-coa PDBTitle: crystal structure of a putative polyketide biosynthesis2 enoyl-coa hydratase (pksh) from bacillus subtilis
70	c4jvtA_	Alignment	not modelled	100.0	30	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of tfu_1878, a putative enoyl-coa hydratase2 fromthermobifida fusca yx in complex with coa
71	c4jvwA_	Alignment	not modelled	100.0	30	PDB header: lyase Chain: A: PDB Molecule: short chain enoyl-coa hydratase; PDBTitle: crystal structure of putative short chain enoyl-coa hydratase from2 novosphingobium aromaticivorans dsm 12444
72	c3swxB_	Alignment	not modelled	100.0	23	PDB header: isomerase Chain: B: PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a probable enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
73	c2pg8C_	Alignment	not modelled	100.0	26	PDB header: :ligand binding protein Chain: C: PDB Molecule: dpgc; PDBTitle: crystal structure of r254k mutanat of dpgc with bound substrate analog
74	c2ppyE_	Alignment	not modelled	100.0	27	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydrates (gk_1992) from geobacillus2 kaustophilus hta426
75	c6ojmB_	Alignment	not modelled	100.0	24	PDB header: lyase Chain: B: PDB Molecule: 1,4-dihydroxy-2-naphthoyl-coa synthase; PDBTitle: crystal structure of 1,4-dihydroxy-2-naphthoyl-coa synthase2 elizabethkingia anophelis nuhp1
76	c3qxzA_	Alignment	not modelled	100.0	29	PDB header: lyase,isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a probable enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
77	c4k3wA_	Alignment	not modelled	100.0	29	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 marinobacter aquaeolei
78	c4fzwD_	Alignment	not modelled	100.0	28	PDB header: isomerase/lyase Chain: D: PDB Molecule: 1,2-epoxyphenylacetyl-coa isomerase; PDBTitle: crystal structure of the paaf-paag hydratase-isomerase

						complex from2 e.coli
79	c2fbmB	Alignment	not modelled	100.0	18	PDB header: structural genomics, unknown function Chain: B; PDB Molecule: y chromosome chromodomain protein 1, telomeric isoform b; PDBTitle: acetyltransferase domain of cdy1
80	d1ef8a	Alignment	not modelled	100.0	26	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
81	d1uiya	Alignment	not modelled	100.0	36	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
82	c4lk5B	Alignment	not modelled	100.0	25	PDB header: lyase Chain: B; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a enoyl-coa hydratase from mycobacterium avium2 subsp. paratuberculosis k-10
83	c4q1iA	Alignment	not modelled	100.0	18	PDB header: lyase Chain: A; PDB Molecule: polyketide biosynthesis enoyl-coa isomerase pksi; PDBTitle: structure and mechanism of a dehydratase/decarboxylase enzyme couple2 involved in polyketide beta-branching
84	c3laoA	Alignment	not modelled	100.0	21	PDB header: lyase, isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of enoyl-coa hydratase from pseudomonas2 aeruginosa pa01
85	d1mj3a	Alignment	not modelled	100.0	35	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
86	c3trrA	Alignment	not modelled	100.0	34	PDB header: isomerase Chain: A; PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a probable enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
87	c3rsiA	Alignment	not modelled	100.0	27	PDB header: isomerase Chain: A; PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: the structure of a putative enoyl-coa hydratase/isomerase from2 mycobacterium abscessus atcc 19977 / dsm 44196
88	c4k29A	Alignment	not modelled	100.0	28	PDB header: isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 xanthobacter autotrophicus py2
89	c3r6hA	Alignment	not modelled	100.0	19	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase, echa3; PDBTitle: crystal structure of an enoyl-coa hydratase (echa3) from mycobacterium2 marinum
90	c5fusB	Alignment	not modelled	100.0	21	PDB header: lyase Chain: B; PDB Molecule: putative enoyl coa hydratase; PDBTitle: crystal structure of b. cenocepacia dfsa
91	c3qkaB	Alignment	not modelled	100.0	31	PDB header: lyase Chain: B; PDB Molecule: enoyl-coa hydratase, echa5; PDBTitle: crystal structure of enoyl-coa hydratase echa5 from mycobacterium2 marinum
92	c3sllC	Alignment	not modelled	100.0	33	PDB header: isomerase Chain: C; PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a probable enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
93	d1q52a	Alignment	not modelled	100.0	24	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
94	c3mybA	Alignment	not modelled	100.0	34	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase mycobacterium smegmatis
95	c3fduF	Alignment	not modelled	100.0	28	PDB header: isomerase Chain: F; PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a putative enoyl-coa hydratase/isomerase from2 acinetobacter baumannii
96	c3qxiA	Alignment	not modelled	100.0	33	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa1; PDBTitle: crystal structure of enoyl-coa hydratase echa1 from mycobacterium2 marinum
97	c5xzdF	Alignment	not modelled	100.0	38	PDB header: lyase Chain: F; PDB Molecule: enoyl-coa hydratase; PDBTitle: structure of acryloyl-coa hydratase acuh from roseovarius nubinhibens2 ism
98	c4f47A	Alignment	not modelled	100.0	27	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa19; PDBTitle: the structure of enoyl-coa hydratase echa19 from mycobacterium marinum
99	c3he2C	Alignment	not modelled	100.0	34	PDB header: lyase Chain: C; PDB Molecule: enoyl-coa hydratase echa6; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium2 tuberculosis
100	c4kd6A	Alignment	not modelled	100.0	26	PDB header: isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase/isomerase from burkholderia2 graminis c4d1m
101	c2wtbA	Alignment	not modelled	100.0	30	PDB header: oxidoreductase Chain: A; PDB Molecule: fatty acid multifunctional protein (atmfp2); PDBTitle: arabidopsis thaliana multifunctional protein, mfp2
102	c3isaA	Alignment	not modelled	100.0	23	PDB header: hydrolase Chain: A; PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 bordetella parapertussis
103	c4nngB	Alignment	not modelled	100.0	28	PDB header: lyase Chain: B; PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of lnmf protein from streptomyces amphibiosporus
						Fold: ClpP/crotonase

104	d1sg4a1	Alignment	not modelled	100.0	28	Superfamily: ClpP/crotonase Family: Crotonase-like
105	c2q35A	Alignment	not modelled	100.0	20	PDB header: lyase Chain: A: PDB Molecule: curf; PDBTitle: crystal structure of the y82f variant of ech2 decarboxylase domain of2 curf from lyngbya majuscula
106	c3ot6A	Alignment	not modelled	100.0	21	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase family protein2 from psudomonas syringae
107	c3m6nA	Alignment	not modelled	100.0	21	PDB header: lyase Chain: A: PDB Molecule: rpff protein; PDBTitle: crystal structure of rpff
108	c3omeE	Alignment	not modelled	100.0	27	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a probable enoyl-coa hydratase from mycobacterium2 smegmatis
109	c1rjnC	Alignment	not modelled	100.0	23	PDB header: lyase Chain: C: PDB Molecule: menb; PDBTitle: the crystal structure of menb (rv0548c) from mycobacterium2 tuberculosis in complex with the coa portion of naphthoyl coa
110	c3tifF	Alignment	not modelled	100.0	26	PDB header: isomerase Chain: F: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium paratuberculosis
111	d1szoa	Alignment	not modelled	100.0	21	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
112	c3p85A	Alignment	not modelled	100.0	31	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure enoyl-coa hydratase from mycobacterium avium
113	c3oc7A	Alignment	not modelled	100.0	31	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of an enoyl-coa hydratase from mycobacterium avium
114	d1rjma	Alignment	not modelled	100.0	23	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
115	c4iyjA	Alignment	not modelled	100.0	27	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 novosphingobium aromaticivorans dsm 12444
116	c3qreA	Alignment	not modelled	100.0	33	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, echa12_1; PDBTitle: crystal structure of an enoyl-coa hydratase echa12_1 from2 mycobacterium marinum
117	c3l3sF	Alignment	not modelled	100.0	29	PDB header: isomerase Chain: F: PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase family2 protein from silicibacter pomeroyi
118	c3qmjA	Alignment	not modelled	100.0	27	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, echa8_6; PDBTitle: crystal structure of enoyl-coa hydratase echa8_6 from mycobacterium2 marinum
119	c2j5gL	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: L: PDB Molecule: alr4455 protein; PDBTitle: the native structure of a beta-diketone hydrolase from the2 cyanobacterium anabaena sp. pcc 7120
120	c5o34C	Alignment	not modelled	100.0	24	PDB header: lyase Chain: C: PDB Molecule: enoyl-coa hydratase carb homologue; PDBTitle: thne from s.clavuligerus