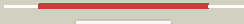



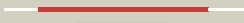


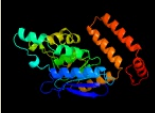




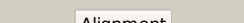




















Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD3516_(echA19)_3952723_3953514
 Date Fri Aug 9 18:20:19 BST 2019
 Unique Job ID 86d0d520fa0c3a16

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	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
2	c5jbxB_	 Alignment		100.0	34	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	c4jfcA_	 Alignment		100.0	30	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a enoyl-coa hydratase from polaromonas sp. js666
4	c4fzwA_	 Alignment		100.0	34	PDB header: isomerase/lyase Chain: A; PDB Molecule: 2,3-dehydroadipyl-coa hydratase; PDBTitle: crystal structure of the paaf-paag hydratase-isomerase complex from2 e.coli
5	c3g64A_	 Alignment		100.0	26	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	c3h81A_	 Alignment		100.0	35	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa8; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium2 tuberculosis
7	c2qq3F_	 Alignment		100.0	30	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
8	c3hrxD_	 Alignment		100.0	31	PDB header: lyase Chain: D; PDB Molecule: probable enoyl-coa hydratase; PDBTitle: crystal structure of phenylacetic acid degradation protein paag
9	c4mi2C_	 Alignment		100.0	24	PDB header: isomerase Chain: C; PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
10	c4zu2A_	 Alignment		100.0	25	PDB header: hydrolase Chain: A; PDB Molecule: putative isohexenylglutaconyl-coa hydratase; PDBTitle: pseudomonas aeruginosa atue
11	c3trrA_	 Alignment		100.0	47	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

12	c3moyA_	Alignment		100.0	29	PDB header: lyase Chain: A; PDB Molecule: probable enoyl-coa hydratase; PDBTitle: crystal structure of probable enoyl-coa hydratase from mycobacterium2 smegmatis
13	c2vx2D_	Alignment		100.0	24	PDB header: isomerase Chain: D; PDB Molecule: enoyl-coa hydratase domain-containing protein 3; PDBTitle: crystal structure of human enoyl coenzyme a hydratase2 domain-containing protein 3 (echdc3)
14	c3bptA_	Alignment		100.0	27	PDB header: hydrolase Chain: A; PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of human beta-hydroxyisobutyryl-coa hydrolase in2 complex with quercetin
15	c4f47A_	Alignment		100.0	88	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa19; PDBTitle: the structure of enoyl-coa hydratase echa19 from mycobacterium marinum
16	c5zaiB_	Alignment		100.0	30	PDB header: hydrolase Chain: B; PDB Molecule: 3-hydroxypropionyl-coenzyme a dehydratase; PDBTitle: crystal structure of 3-hydroxypropionyl-coa dehydratase from2 metallosphaera sedula
17	c4olqD_	Alignment		100.0	31	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
18	c4fzwD_	Alignment		100.0	31	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
19	c2hw5F_	Alignment		100.0	32	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
20	c3r0oA_	Alignment		100.0	39	PDB header: lyase Chain: A; PDB Molecule: carnitiny-coa dehydratase; PDBTitle: crystal structure of carnitiny-coa hydratase from mycobacterium avium
21	c3i47A_	Alignment	not modelled	100.0	29	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
22	c3rsiA_	Alignment	not modelled	100.0	51	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
23	c2ej5B_	Alignment	not modelled	100.0	31	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
24	c3p5mB_	Alignment	not modelled	100.0	27	PDB header: isomerase Chain: B; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium avium
25	d1hzda_	Alignment	not modelled	100.0	32	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
26	c4j2uA_	Alignment	not modelled	100.0	27	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of an enoyl-coa hydratase from rhodobacter2 sphaeroides 2.4.1
27	c3kqfC_	Alignment	not modelled	100.0	33	PDB header: isomerase Chain: C; PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: 1.8 angstrom resolution crystal structure of enoyl-coa hydratase from2 bacillus anthracis.
						PDB header: lyase

28	c3qxiA_	Alignment	not modelled	100.0	44	Chain: A: PDB Molecule: enoyl-coa hydratase echa1; PDBTitle: crystal structure of enoyl-coa hydratase echa1 from mycobacterium2 marinum
29	c4k2nA_	Alignment	not modelled	100.0	28	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
30	c4hdtA_	Alignment	not modelled	100.0	27	PDB header: isomerase Chain: A: PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of a carnitiny-coa dehydratase from mycobacterium2 thermoresistibile
31	d1nzya_	Alignment	not modelled	100.0	22	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
32	c3swxB_	Alignment	not modelled	100.0	30	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
33	d1uivy_	Alignment	not modelled	100.0	34	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
34	c3qxzA_	Alignment	not modelled	100.0	30	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
35	c4jvwA_	Alignment	not modelled	100.0	33	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
36	d1mj3a_	Alignment	not modelled	100.0	33	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
37	c2ppyE_	Alignment	not modelled	100.0	29	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydrates (gk_1992) from geobacillus2 kaustophilus hta426
38	c3peaD_	Alignment	not modelled	100.0	31	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'
39	c5z7rA_	Alignment	not modelled	100.0	32	PDB header: lyase Chain: A: PDB Molecule: short-chain-enoyl-coa hydratase; PDBTitle: crystal strcture of crotonase from clostridium acetobutylicum
40	c4og1A_	Alignment	not modelled	100.0	28	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a putative enoyl-coa hydratase from2 novosphingobium aromaticivorans dsm 12444
41	c3mybA_	Alignment	not modelled	100.0	28	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase mycobacterium smegmatis
42	c5ve2j_	Alignment	not modelled	100.0	31	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.
43	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
44	d2fw2a1	Alignment	not modelled	100.0	22	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
45	c3t88A_	Alignment	not modelled	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
46	c4nekD_	Alignment	not modelled	100.0	24	PDB header: isomerase Chain: D: PDB Molecule: enoyl-coa hydratase/carnithine racemase; PDBTitle: putative enoyl-coa hydratase/carnithine racemase from magnetospirillum2 magneticum amb-1
47	c3tifF_	Alignment	not modelled	100.0	34	PDB header: isomerase Chain: F: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium paratuberculosis
48	d1dcia_	Alignment	not modelled	100.0	27	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
49	c4k3wA_	Alignment	not modelled	100.0	26	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 marinobacter aquaeolei
50	c2iexA_	Alignment	not modelled	100.0	31	PDB header: lyase Chain: A: PDB Molecule: dihydroxynaphthoic acid synthetase; PDBTitle: crystal structure of dihydroxynaphthoic acid synthetase (gk2873) from2 geobacillus kaustophilus hta426
51	d1wz8a1	Alignment	not modelled	100.0	22	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
52	c4mouA_	Alignment	not modelled	100.0	27	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
53	c3sllC_	Alignment	not modelled	100.0	27	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
54	c3ju1A_	Alignment	not modelled	100.0	23	PDB header: lyase, isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of enoyl-coa hydratase/isomerase family protein
55	d1q52a_	Alignment	not modelled	100.0	25	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
56	c4kpkA_	Alignment	not modelled	100.0	21	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase from shewanella pealeana2 atcc 700345
57	c4lk5B_	Alignment	not modelled	100.0	24	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
58	c4i4zE_	Alignment	not modelled	100.0	26	PDB header: lyase Chain: E: PDB Molecule: naphthoate synthase; PDBTitle: synechocystis sp. pcc 6803 1,4-dihydroxy-2-naphthoyl-coenzyme a2 synthase (menb) in complex with salicylyl-coa
59	d1wdka4	Alignment	not modelled	100.0	21	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
60	d1ef8a_	Alignment	not modelled	100.0	24	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
61	c6ojmB_	Alignment	not modelled	100.0	28	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
62	c2d3tB_	Alignment	not modelled	100.0	20	PDB header: lyase, oxidoreductase/transferase Chain: B: PDB Molecule: fatty acid beta-oxidation complex alpha subunit; PDBTitle: fatty acid beta-oxidation multienzyme complex from2 pseudomonas fragi, form v
63	c3he2C_	Alignment	not modelled	100.0	29	PDB header: lyase Chain: C: PDB Molecule: enoyl-coa hydratase echa6; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium2 tuberculosis
64	d1xx4a_	Alignment	not modelled	100.0	24	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
65	c3oc7A_	Alignment	not modelled	100.0	28	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of an enoyl-coa hydratase from mycobacterium avium
66	c4q1jA_	Alignment	not modelled	100.0	19	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
67	c3njbA_	Alignment	not modelled	100.0	22	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium smegmatis,2 iodide soak
68	c4wczB_	Alignment	not modelled	100.0	27	PDB header: isomerase Chain: B: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a putative enoyl-coa hydratase/isomerase from2 novosphingobium aromaticivorans
69	c4k29A_	Alignment	not modelled	100.0	27	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 xanthobacter autotrophicus py2
70	c3rrvC_	Alignment	not modelled	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
71	c3gkbA_	Alignment	not modelled	100.0	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of a putative enoyl-coa hydratase from streptomyces2 avermitilis
72	c3keA_	Alignment	not modelled	100.0	22	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from bacillus halodurans
73	c4b3hA_	Alignment	not modelled	100.0	28	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
74	c4jyE_	Alignment	not modelled	100.0	25	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from thermoplasma volcanium2 gss1
75	c2x58B_	Alignment	not modelled	100.0	25	PDB header: oxidoreductase Chain: B: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: the crystal structure of mfe1 liganded with coa
76	c2fbmB_	Alignment	not modelled	100.0	23	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: y chromosome chromodomain protein 1, telomeric isoform b; PDBTitle: acetyltransferase domain of cdy1
77	c3h0uB_	Alignment	not modelled	100.0	20	PDB header: lyase Chain: B: PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of a putative enoyl-coa hydratase from streptomyces2 avermitilis
78	c4iyjA_	Alignment	not modelled	100.0	19	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
79	c4di1A_	Alignment	not modelled	100.0	26 PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase echa17; PDBTitle: crystal structure of enoyl-coa hydratase echa17 from mycobacterium2 marinum
80	c3q1tB_	Alignment	not modelled	100.0	24 PDB header: lyase Chain: B: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium avium
81	c2q35A_	Alignment	not modelled	100.0	22 PDB header: lyase Chain: A: PDB Molecule: curf; PDBTitle: crystal structure of the y82f variant of ech2 decarboxylase domain of2 curf from lnygbya majuscula
82	d2f6qa1	Alignment	not modelled	100.0	25 Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
83	c2f6qA_	Alignment	not modelled	100.0	25 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)
84	c4izbB_	Alignment	not modelled	100.0	29 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
85	c2wtbA_	Alignment	not modelled	100.0	26 PDB header: oxidoreductase Chain: A: PDB Molecule: fatty acid multifunctional protein (atmfp2); PDBTitle: arabidopsis thaliana multifunctional protein, mfp2
86	c5wybB_	Alignment	not modelled	100.0	25 PDB header: isomerase Chain: B: PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: structure of pseudomonas aeruginosa dspl
87	c6iunB_	Alignment	not modelled	100.0	24 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
88	c4nnqB_	Alignment	not modelled	100.0	23 PDB header: lyase Chain: B: PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of lnmf protein from streptomyces amphibiosporus
89	c5zqzC_	Alignment	not modelled	100.0	22 PDB header: lyase,hydrolase/transferase Chain: C: PDB Molecule: trifunctional enzyme subunit alpha, mitochondrial; PDBTitle: structure of human mitochondrial trifunctional protein, tetramer
90	c4jvtA_	Alignment	not modelled	100.0	23 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
91	c3isaA_	Alignment	not modelled	100.0	20 PDB header: hydrolase Chain: A: PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 bordetella parapertussis
92	c5yloA_	Alignment	not modelled	100.0	24 PDB header: hydrolase Chain: A: PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: structural of pseudomonas aeruginosa pa4980
93	c3hpbB_	Alignment	not modelled	100.0	21 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
94	d1sg4a1	Alignment	not modelled	100.0	23 Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
95	c2j5iF_	Alignment	not modelled	100.0	25 PDB header: lyase Chain: F: PDB Molecule: p-hydroxycinnamoyl coa hydratase/lyase; PDBTitle: crystal structure of hydroxycinnamoyl-coa hydratase-lyase
96	c4jotA_	Alignment	not modelled	100.0	24 PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, putative; PDBTitle: crystal structure of enoyl-coa hydrotase from deinococcus radiodurans2 r1
97	c5xzdF_	Alignment	not modelled	100.0	30 PDB header: lyase Chain: F: PDB Molecule: enoyl-coa hydratase; PDBTitle: structure of acryloyl-coa hydratase acuh from roseovarius nubinhibens2 ism
98	c3qkaB_	Alignment	not modelled	100.0	35 PDB header: lyase Chain: B: PDB Molecule: enoyl-coa hydratase, echa5; PDBTitle: crystal structure of enoyl-coa hydratase echa5 from mycobacterium2 marinum
99	d1pjha_	Alignment	not modelled	100.0	17 Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
100	c3l3sF_	Alignment	not modelled	100.0	25 PDB header: isomerase Chain: F: PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of an enoyl-coa hydrotase/isomerase family2 protein from silicibacter pomeroyi
101	c3p85A_	Alignment	not modelled	100.0	35 PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure enoyl-coa hydratase from mycobacterium avium
102	c3r6hA_	Alignment	not modelled	100.0	18 PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, echa3; PDBTitle: crystal structure of an enoyl-coa hydratase (echa3) from mycobacterium2 marinum PDB header: lyase, isomerase

103	c3laoA_	Alignment	not modelled	100.0	32	Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of enoyl-coa hydratase from pseudomonas2 aeruginosa pa01
104	d2a7ka1	Alignment	not modelled	100.0	21	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
105	c3fduF_	Alignment	not modelled	100.0	32	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
106	c3omeE_	Alignment	not modelled	100.0	26	PDB header: lyase Chain: E; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a probable enoyl-coa hydratase from mycobacterium2 smegmatis
107	c3ot6A_	Alignment	not modelled	100.0	18	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
108	c5fusB_	Alignment	not modelled	100.0	20	PDB header: lyase Chain: B; PDB Molecule: putative enoyl coa hydratase; PDBTitle: crystal structure of b. cenocepacia dfsa
109	d1szoa_	Alignment	not modelled	100.0	19	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
110	c4kd6A_	Alignment	not modelled	100.0	27	PDB header: isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase/isomerase from burkholderia2 graminis c4d1m
111	c2pg8C_	Alignment	not modelled	100.0	25	PDB header: ligand binding protein Chain: C; PDB Molecule: dpgc; PDBTitle: crystal structure of r254k mutanat of dpgc with bound substrate analog
112	c3m6nA_	Alignment	not modelled	100.0	19	PDB header: lyase Chain: A; PDB Molecule: rpff protein; PDBTitle: crystal structure of rpff
113	c3h02F_	Alignment	not modelled	100.0	26	PDB header: lyase Chain: F; PDB Molecule: naphthoate synthase; PDBTitle: 2.15 angstrom resolution crystal structure of naphthoate synthase from2 salmonella typhimurium.
114	c2w3pB_	Alignment	not modelled	100.0	17	PDB header: lyase Chain: B; PDB Molecule: benzoyl-coa-dihydrodiol lyase; PDBTitle: boxc crystal structure
115	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
116	d1rjma_	Alignment	not modelled	100.0	23	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
117	c2j5gL_	Alignment	not modelled	100.0	18	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
118	c3qreA_	Alignment	not modelled	100.0	35	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
119	c3qmjA_	Alignment	not modelled	100.0	25	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase, echa8_6; PDBTitle: crystal structure of enoyl-coa hydratase echa8_6 from mycobacterium2 marinum
120	c5o34C_	Alignment	not modelled	100.0	27	PDB header: lyase Chain: C; PDB Molecule: enoyl-coa hydratase carb homologue; PDBTitle: thne from s.clavuligerus