






Phyre2

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Description	RVBD3374_(echA18.1)_3788548_3788796
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Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3g64A_	 Alignment		99.9	20	PDB header: lyase Chain: A; PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of putative enoyl-coa hydratase from streptomyces2 coelicolor a3(2)
2	c5jbxB_	 Alignment		99.9	20	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	c2ppyE_	 Alignment		99.8	15	PDB header: lyase Chain: E; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydrates (gk_1992) from geobacillus2 kaustophilus hta426
4	c4jcsA_	 Alignment		99.8	15	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of enoyl-coa hydratase/isomerase from cupriavidus2 metallidurans ch34
5	c2vx2D_	 Alignment		99.8	22	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)
6	c6ojmB_	 Alignment		99.8	23	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
7	c3mybA_	 Alignment		99.8	20	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase mycobacterium smegmatis
8	c3moyA_	 Alignment		99.8	26	PDB header: lyase Chain: A; PDB Molecule: probable enoyl-coa hydratase; PDBTitle: crystal structure of probable enoyl-coa hydratase from mycobacterium2 smegmatis
9	c3tifF_	 Alignment		99.8	16	PDB header: isomerase Chain: F; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium paratuberculosis
10	c4jfcA_	 Alignment		99.8	21	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a enoyl-coa hydratase from polaromonas sp. js666
11	c5zaiB_	 Alignment		99.8	26	PDB header: hydrolase Chain: B; PDB Molecule: 3-hydroxypropionyl-coenzyme a dehydratase; PDBTitle: crystal structure of 3-hydroxypropionyl-coa dehydratase from2 metallosphaera sedula

12	c3swxB_	Alignment		99.8	21	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
13	c3trrA_	Alignment		99.8	13	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
14	c3h81A_	Alignment		99.8	28	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa8; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium2 tuberculosis
15	c4mi2C_	Alignment		99.8	19	PDB header: isomerase Chain: C; PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
16	c4f47A_	Alignment		99.8	21	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa19; PDBTitle: the structure of enoyl-coa hydratase echa19 from mycobacterium marinum
17	d2fw2a1	Alignment		99.8	10	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
18	c3hrxD_	Alignment		99.8	23	PDB header: lyase Chain: D; PDB Molecule: probable enoyl-coa hydratase; PDBTitle: crystal structure of phenylacetic acid degradation protein paag
19	c2qq3F_	Alignment		99.8	24	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
20	d1q52a_	Alignment		99.8	21	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
21	c2hw5F_	Alignment	not modelled	99.8	20	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
22	c3t88A_	Alignment	not modelled	99.8	25	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
23	c2ej5B_	Alignment	not modelled	99.8	20	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	c3i47A_	Alignment	not modelled	99.8	19	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
25	d1mj3a_	Alignment	not modelled	99.8	21	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
26	c3kqfC_	Alignment	not modelled	99.8	19	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.
27	d1dcia_	Alignment	not modelled	99.8	16	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
28	c4iuvA_	Alignment	not modelled	99.8	22	PDB header: lyase Chain: A; PDB Molecule: short chain enoyl-coa hydratase;

28	c4jwvA	Alignment	not modelled	99.8	22	PDBTitle: crystal structure of putative short chain enoyl-coa hydratase from2 novosphingobium aromaticivorans dsm 12444
29	d1wz8a1	Alignment	not modelled	99.8	19	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
30	c5ve2l	Alignment	not modelled	99.8	25	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.
31	c4fzwD	Alignment	not modelled	99.8	26	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
32	c4zu2A	Alignment	not modelled	99.8	29	PDB header: hydrolase Chain: A: PDB Molecule: putative isohexenylglutaconyl-coa hydratase; PDBTitle: pseudomonas aeruginosa atue
33	c2iexA	Alignment	not modelled	99.8	25	PDB header: lyase Chain: A: PDB Molecule: dihydroxynaphthoic acid synthetase; PDBTitle: crystal structure of dihydroxynaphthoic acid synthetase (gk2873) from2 geobacillus kaustophilus hta426
34	c4i4zE	Alignment	not modelled	99.8	21	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
35	c3rsiA	Alignment	not modelled	99.8	26	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
36	d1uiya	Alignment	not modelled	99.8	23	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
37	c4fzwA	Alignment	not modelled	99.8	23	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
38	c4og1A	Alignment	not modelled	99.8	23	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
39	d1nzya	Alignment	not modelled	99.8	12	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
40	d1hzda	Alignment	not modelled	99.8	25	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
41	c3qxiA	Alignment	not modelled	99.8	17	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase echa1; PDBTitle: crystal structure of enoyl-coa hydratase echa1 from mycobacterium2 marinum
42	c3r0oA	Alignment	not modelled	99.8	23	PDB header: lyase Chain: A: PDB Molecule: carnitiny-coa dehydratase; PDBTitle: crystal structure of carnitiny-coa hydratase from mycobacterium avium
43	c3sllC	Alignment	not modelled	99.8	18	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
44	c3p5mB	Alignment	not modelled	99.8	17	PDB header: isomerase Chain: B: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium avium
45	c3qxzA	Alignment	not modelled	99.8	15	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
46	c4k3wA	Alignment	not modelled	99.8	21	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 marinobacter aquaeolei
47	c3bptA	Alignment	not modelled	99.8	20	PDB header: hydrolase Chain: A: PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of human beta-hydroxyisobutyryl-coa hydrolase in2 complex with quercetin
48	d1ef8a	Alignment	not modelled	99.8	21	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
49	c3hinA	Alignment	not modelled	99.8	14	PDB header: lyase Chain: A: PDB Molecule: putative 3-hydroxybutyryl-coa dehydratase; PDBTitle: crystal structure of putative enoyl-coa hydratase from2 rhodospseudomonas palustris cga009
50	c3peaD	Alignment	not modelled	99.8	28	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'
51	c4olqD	Alignment	not modelled	99.7	23	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
52	c4j2uA	Alignment	not modelled	99.7	28	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of an enoyl-coa hydratase from rhodobacter2 sphaeroides 2.4.1
53	c4mouA	Alignment	not modelled	99.7	21	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
54	c4nekD	Alignment	not modelled	99.7	19	PDB header: isomerase Chain: D: PDB Molecule: enoyl-coa hydratase/carnithine racemase; PDBTitle: putative enoyl-coa hydratase/carnithine racemase from magnetospirillum2 magneticum amb-1
55	c4k2nA	Alignment	not modelled	99.7	24	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
56	c4lk5B	Alignment	not modelled	99.7	22	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
57	c4hdtA	Alignment	not modelled	99.7	18	PDB header: isomerase Chain: A: PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of a carnitiny-coa dehydratase from mycobacterium2 thermoresistibile
58	c3ju1A	Alignment	not modelled	99.7	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
59	c5z7rA	Alignment	not modelled	99.7	19	PDB header: lyase Chain: A: PDB Molecule: short-chain-enoyl-coa hydratase; PDBTitle: crystal structure of crotonase from clostridium acetobutylicum
60	c3oc7A	Alignment	not modelled	99.7	28	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of an enoyl-coa hydratase from mycobacterium avium
61	c4jv1A	Alignment	not modelled	99.7	11	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
62	c3he2C	Alignment	not modelled	99.7	25	PDB header: lyase Chain: C: PDB Molecule: enoyl-coa hydratase echa6; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium2 tuberculosis
63	c4kpkA	Alignment	not modelled	99.7	17	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase from shewanella pealeana2 atcc 700345
64	d1xx4a	Alignment	not modelled	99.6	9	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
65	c3njbA	Alignment	not modelled	99.6	21	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium smegmatis,2 iodide soak
66	c3gkbA	Alignment	not modelled	99.6	5	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
67	c4k29A	Alignment	not modelled	99.6	20	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 xanthobacter autotrophicus py2
68	c3h0uB	Alignment	not modelled	99.6	15	PDB header: lyase Chain: B: PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of a putative enoyl-coa hydratase from streptomyces2 avermitilis
69	d1wdka4	Alignment	not modelled	99.5	14	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
70	c4wczB	Alignment	not modelled	99.5	37	PDB header: isomerase Chain: B: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a putative enoyl-coa hydratase/isomerase from2 novosphingobium aromaticivorans
71	c3q1tB	Alignment	not modelled	99.4	23	PDB header: lyase Chain: B: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium avium
72	c4q1jA	Alignment	not modelled	99.4	7	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
73	c2fbmB	Alignment	not modelled	99.4	9	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: y chromosome chromodomain protein 1, telomeric isoform b; PDBTitle: acetyltransferase domain of cdy1
74	c2q35A	Alignment	not modelled	99.4	11	PDB header: lyase Chain: A: PDB Molecule: curf; PDBTitle: crystal structure of the y82f variant of ech2 decarboxylase domain of2 curf from lyngbya majuscula
75	c4jy1E	Alignment	not modelled	99.3	17	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from thermoplasma volcanium2 gss1
76	c2d3tB	Alignment	not modelled	99.3	20	PDB header: lyase, oxidoreductase/transferase Chain: B: PDB Molecule: fatty oxidation complex alpha subunit; PDBTitle: fatty acid beta-oxidation multienzyme complex from2 pseudomonas fragi, form v
77	d1sg4a1	Alignment	not modelled	99.3	11	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
						PDB header: oxidoreductase

78	c2x58B_	Alignment	not modelled	99.3	10	Chain: B: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: the crystal structure of mfe1 liganded with coa
79	c3rrvC_	Alignment	not modelled	99.3	19	PDB header: isomerase Chain: C: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium paratuberculosis
80	c3isaA_	Alignment	not modelled	99.3	10	PDB header: hydrolase Chain: A: PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 bordetella parapertussis
81	c3lkeA_	Alignment	not modelled	99.3	13	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from bacillus halodurans
82	c3hp0B_	Alignment	not modelled	99.2	12	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
83	c2wtbA_	Alignment	not modelled	99.2	16	PDB header: oxidoreductase Chain: A: PDB Molecule: fatty acid multifunctional protein (atmfp2); PDBTitle: arabidopsis thaliana multifunctional protein, mfp2
84	c4b3hA_	Alignment	not modelled	99.2	22	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
85	d2f6qa1	Alignment	not modelled	99.2	12	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
86	c2f6qA_	Alignment	not modelled	99.2	12	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)
87	c4nngB_	Alignment	not modelled	99.2	20	PDB header: lyase Chain: B: PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of lnmf protein from streptomyces amphibiosporus
88	c4dj1A_	Alignment	not modelled	99.1	22	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase echa17; PDBTitle: crystal structure of enoyl-coa hydratase echa17 from mycobacterium2 marinum
89	c5wybB_	Alignment	not modelled	99.1	22	PDB header: isomerase Chain: B: PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: structure of pseudomonas aeruginosa dspi
90	c4jotA_	Alignment	not modelled	99.0	20	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, putative; PDBTitle: crystal structure of enoyl-coa hydratase from deinococcus radiodurans2 r1
91	c3p85A_	Alignment	not modelled	99.0	18	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure enoyl-coa hydratase from mycobacterium avium
92	c5xzdF_	Alignment	not modelled	99.0	18	PDB header: lyase Chain: F: PDB Molecule: enoyl-coa hydratase; PDBTitle: structure of acryloyl-coa hydratase acuh from roseovarius nubinhibens2 ism
93	c3l3sF_	Alignment	not modelled	99.0	17	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
94	c4izbB_	Alignment	not modelled	98.9	14	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
95	c3qkaB_	Alignment	not modelled	98.9	18	PDB header: lyase Chain: B: PDB Molecule: enoyl-coa hydratase, echa5; PDBTitle: crystal structure of enoyl-coa hydratase echa5 from mycobacterium2 marinum
96	c2j5iF_	Alignment	not modelled	98.8	22	PDB header: lyase Chain: F: PDB Molecule: p-hydroxycinnamoyl coa hydratase/lyase; PDBTitle: crystal structure of hydroxycinnamoyl-coa hydratase-lyase
97	c4kd6A_	Alignment	not modelled	98.8	13	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase/isomerase from burkholderia2 graminis c4d1m
98	c3omeE_	Alignment	not modelled	98.8	24	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a probable enoyl-coa hydratase from mycobacterium2 smegmatis
99	c2j5gL_	Alignment	not modelled	98.8	12	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
100	c5zqzC_	Alignment	not modelled	98.8	18	PDB header: lyase,hydrolase/transferase Chain: C: PDB Molecule: trifunctional enzyme subunit alpha, mitochondrial; PDBTitle: structure of human mitochondrial trifunctional protein, tetramer
101	c4jvtA_	Alignment	not modelled	98.8	26	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
102	d2a7ka1	Alignment	not modelled	98.7	21	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like

103	c3m6nA_	Alignment	not modelled	98.7	13	PDB header: lyase Chain: A: PDB Molecule: rpff protein; PDBTitle: crystal structure of rpff
104	c5yloA_	Alignment	not modelled	98.7	17	PDB header: hydrolase Chain: A: PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: structural of pseudomonas aeruginosa pa4980
105	c3ot6A_	Alignment	not modelled	98.6	14	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
106	d1szoa_	Alignment	not modelled	98.6	20	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
107	c6iunB_	Alignment	not modelled	98.6	17	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
108	c3r6hA_	Alignment	not modelled	98.5	11	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, echa3; PDBTitle: crystal structure of an enoyl-coa hydratase (echa3) from mycobacterium2 marinum
109	c3h02F_	Alignment	not modelled	98.5	22	PDB header: lyase Chain: F: PDB Molecule: naphthoate synthase; PDBTitle: 2.15 angstrom resolution crystal structure of naphthoate synthase from2 salmonella typhimurium.
110	c3laoA_	Alignment	not modelled	98.5	24	PDB header: lyase, isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of enoyl-coa hydratase from pseudomonas2 aeruginosa pa01
111	c1rjnC_	Alignment	not modelled	98.4	19	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
112	d1rjma_	Alignment	not modelled	98.4	19	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
113	c5fusB_	Alignment	not modelled	98.4	11	PDB header: lyase Chain: B: PDB Molecule: putative enoyl coa hydratase; PDBTitle: crystal structure of b. cenocepacia dfsa
114	c5o34C_	Alignment	not modelled	98.3	16	PDB header: lyase Chain: C: PDB Molecule: enoyl-coa hydratase carb homologue; PDBTitle: thne from s.clavuligerus
115	d1pjha_	Alignment	not modelled	98.2	17	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
116	c3qmjA_	Alignment	not modelled	98.2	15	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, echa8_6; PDBTitle: crystal structure of enoyl-coa hydratase echa8_6 from mycobacterium2 marinum
117	c3fduF_	Alignment	not modelled	98.0	13	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
118	c3qreA_	Alignment	not modelled	98.0	24	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	c2pg8C_	Alignment	not modelled	97.8	21	PDB header: ligand binding protein Chain: C: PDB Molecule: dpgc; PDBTitle: crystal structure of r254k mutanat of dpgc with bound substrate analog