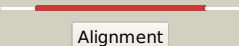



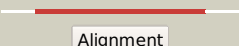





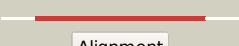
















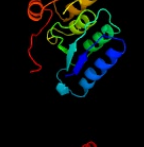


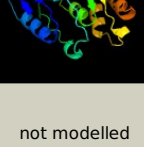


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2461c_clpP_2763182_2763784
Date	Wed Aug 7 12:50:08 BST 2019
Unique Job ID	b949fa3d9a160611

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3q7hM_	 Alignment		100.0	45	PDB header: hydrolase Chain: M: PDB Molecule: atp-dependent clp protease proteolytic subunit; PDBTitle: structure of the clpp subunit of the atp-dependent clp protease from2 coxiella burnetii
2	c4u0gG_	 Alignment		100.0	45	PDB header: hydrolase/antibiotic Chain: G: PDB Molecule: atp-dependent clp protease proteolytic subunit 2; PDBTitle: crystal structure of m. tuberculosis clpp1p2 bound to adep and agonist
3	c3p2lD_	 Alignment		100.0	49	PDB header: hydrolase Chain: D: PDB Molecule: atp-dependent clp protease proteolytic subunit; PDBTitle: crystal structure of atp-dependent clp protease subunit p from2 francisella tularensis
4	c1y7oE_	 Alignment		100.0	45	PDB header: hydrolase Chain: E: PDB Molecule: atp-dependent clp protease proteolytic subunit; PDBTitle: the structure of streptococcus pneumoniae a153p clpp
5	c1tg6G_	 Alignment		100.0	45	PDB header: hydrolase Chain: G: PDB Molecule: putative atp-dependent clp protease proteolytic subunit; PDBTitle: crystallography and mutagenesis point to an essential role for the n-2 terminus of human mitochondrial clpp
6	c3kthD_	 Alignment		100.0	56	PDB header: hydrolase Chain: D: PDB Molecule: atp-dependent clp protease proteolytic subunit; PDBTitle: structure of clpp from bacillus subtilis in orthorhombic crystal form
7	d1yg6a1	 Alignment		100.0	55	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Clp protease, ClpP subunit
8	d1tg6a1	 Alignment		100.0	46	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Clp protease, ClpP subunit
9	c2cbyG_	 Alignment		100.0	100	PDB header: hydrolase Chain: G: PDB Molecule: atp-dependent clp protease proteolytic subunit 1; PDBTitle: crystal structure of the atp-dependent clp protease proteolytic2 subunit 1 (clpp1) from mycobacterium tuberculosis
10	d2cbya1	 Alignment		100.0	100	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Clp protease, ClpP subunit
11	d1y7oa1	 Alignment		100.0	47	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Clp protease, ClpP subunit

12	d2f6ia1	Alignment		100.0	42	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Clp protease, ClpP subunit
13	c2f6iG	Alignment		100.0	42	PDB header: hydrolase Chain: G: PDB Molecule: atp-dependent clp protease, putative; PDBTitle: crystal structure of the clpp protease catalytic domain from2 plasmodium falciparum
14	c4jqcU	Alignment		100.0	34	PDB header: hydrolase Chain: U: PDB Molecule: atp-dependent clp protease proteolytic subunit; PDBTitle: clpp1 from listeria monocytogenes
15	c4hnkI	Alignment		100.0	34	PDB header: hydrolase Chain: I: PDB Molecule: atp-dependent clp protease proteolytic subunit; PDBTitle: crystal structure of an enzyme
16	c3bezC	Alignment		100.0	24	PDB header: hydrolase Chain: C: PDB Molecule: protease 4; PDBTitle: crystal structure of escherichia coli signal peptide peptidase (sppa),2 semet crystals
17	c2deoA	Alignment		99.9	18	PDB header: hydrolase Chain: A: PDB Molecule: 441aa long hypothetical nfd protein; PDBTitle: 1510-n membrane protease specific for a stomatin homolog from2 pyrococcus horikoshii
18	c3rstH	Alignment		99.9	18	PDB header: hydrolase Chain: H: PDB Molecule: signal peptide peptidase sppa; PDBTitle: crystal structure of bacillus subtilis signal peptide peptidase a
19	c2ej5B	Alignment		99.4	15	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
20	c5o34C	Alignment		99.3	20	PDB header: lyase Chain: C: PDB Molecule: enoyl-coa hydratase carb homologue; PDBTitle: thne from s.clavuligerus
21	c3kqfC	Alignment	not modelled	99.3	18	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.
22	c3hrxD	Alignment	not modelled	99.3	18	PDB header: lyase Chain: D: PDB Molecule: probable enoyl-coa hydratase; PDBTitle: crystal structure of phenylacetic acid degradation protein paag
23	c2q35A	Alignment	not modelled	99.3	18	PDB header: lyase Chain: A: PDB Molecule: curf; PDBTitle: crystal structure of the y82f variant of ech2 decarboxylase domain of2 curf from lynnbya majuscula
24	c5xzdF	Alignment	not modelled	99.3	16	PDB header: lyase Chain: F: PDB Molecule: enoyl-coa hydratase; PDBTitle: structure of acryloyl-coa hydratase acuh from roseovarius nubinhibens2 ism
25	c4fzwA	Alignment	not modelled	99.3	14	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
26	c4fzwD	Alignment	not modelled	99.3	19	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
27	c4nekD	Alignment	not modelled	99.3	15	PDB header: isomerase Chain: D: PDB Molecule: enoyl-coa hydratase/carnithine racemase; PDBTitle: putative enoyl-coa hydratase/carnithine racemase from magnetospirillum2 magneticum amb-1
28	c3peaD	Alignment	not modelled	99.3	16	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'
29	c4jfcA_	Alignment	not modelled	99.3	18	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a enoyl-coa hydratase from polaromonas sp. js666
30	c3fduF_	Alignment	not modelled	99.3	15	PDB header: isomerase Chain: F: PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase/isomerase from2 acinetobacter baumannii
31	c2j5iF_	Alignment	not modelled	99.3	15	PDB header: lyase Chain: F: PDB Molecule: p-hydroxycinnamoyl coa hydratase/lyase; PDBTitle: crystal structure of hydroxycinnamoyl-coa hydratase-lyase
32	c4lk5B_	Alignment	not modelled	99.3	18	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
33	c3p85A_	Alignment	not modelled	99.3	16	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure enoyl-coa hydratase from mycobacterium avium
34	d1wdka4	Alignment	not modelled	99.3	17	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
35	c4k2nA_	Alignment	not modelled	99.3	16	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
36	c2lexA_	Alignment	not modelled	99.3	18	PDB header: lyase Chain: A: PDB Molecule: dihydroxynaphthoic acid synthetase; PDBTitle: crystal structure of dihydroxynaphthoic acid synthetase (gk2873) from2 geobacillus kaustophilus hta426
37	c3i47A_	Alignment	not modelled	99.3	16	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
38	c5zaiB_	Alignment	not modelled	99.3	19	PDB header: hydrolase Chain: B: PDB Molecule: 3-hydroxypropionyl-coenzyme a dehydratase; PDBTitle: crystal structure of 3-hydroxypropionyl-coa dehydratase from2 metallosphaera sedula
39	c4q1jA_	Alignment	not modelled	99.3	15	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
40	c4di1A_	Alignment	not modelled	99.3	18	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase echa17; PDBTitle: crystal structure of enoyl-coa hydratase echa17 from mycobacterium2 marinum
41	c5ve2j_	Alignment	not modelled	99.2	20	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.
42	c3h81A_	Alignment	not modelled	99.2	22	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase echa8; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium2 tuberculosis
43	c5jbxB_	Alignment	not modelled	99.2	18	PDB header: lyase Chain: B: PDB Molecule: 3-hydroxybutyryl-coa dehydratase; PDBTitle: crystal structure of liuc in complex with coenzyme a and malonic acid
44	c5yloA_	Alignment	not modelled	99.2	17	PDB header: hydrolase Chain: A: PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: structural of pseudomonas aeruginosa pa4980
45	d1nzya_	Alignment	not modelled	99.2	13	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
46	c4mi2C_	Alignment	not modelled	99.2	16	PDB header: isomerase Chain: C: PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 mycobacterium abscessus
47	c2qq3F_	Alignment	not modelled	99.2	17	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
48	c4wczB_	Alignment	not modelled	99.2	19	PDB header: isomerase Chain: B: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a putative enoyl-coa hydratase/isomerase from2 novosphingobium aromaticivorans
49	d2fw2a1	Alignment	not modelled	99.2	19	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
50	c3h02F_	Alignment	not modelled	99.2	17	PDB header: lyase Chain: F: PDB Molecule: naphthoate synthase; PDBTitle: 2.15 angstrom resolution crystal structure of naphthoate synthase from2 salmonella typhimurium.
51	c3njbA_	Alignment	not modelled	99.2	14	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium smegmatis,2 iodide soak
52	c2fbmB_	Alignment	not modelled	99.2	19	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: y chromosome chromodomain protein 1, telomeric isoform b; PDBTitle: acetyltransferase domain of cdy1 PDB header: isomerase

53	c3l3sF_	Alignment	not modelled	99.2	21	Chain: F; PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of an enoyl-coa hydrotase/isomerase family2 protein from silicibacter pomeroyi
54	c4zu2A_	Alignment	not modelled	99.2	21	PDB header: hydrolase Chain: A; PDB Molecule: putative isohexenylglutaconyl-coa hydratase; PDBTitle: pseudomonas aeruginosa atue
55	c3rsiA_	Alignment	not modelled	99.2	16	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
56	c3moyA_	Alignment	not modelled	99.2	20	PDB header: lyase Chain: A; PDB Molecule: probable enoyl-coa hydratase; PDBTitle: crystal structure of probable enoyl-coa hydratase from mycobacterium2 smegmatis
57	c2hw5F_	Alignment	not modelled	99.2	18	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
58	c3r6hA_	Alignment	not modelled	99.2	21	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase, echa3; PDBTitle: crystal structure of an enoyl-coa hydratase (echa3) from mycobacterium2 marinum
59	c4jcsA_	Alignment	not modelled	99.2	18	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of enoyl-coa hydratase/isomerase from cupriavidus2 metallidurans ch34
60	d1q52a_	Alignment	not modelled	99.2	17	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
61	c3qmjA_	Alignment	not modelled	99.2	19	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase, echa8_6; PDBTitle: crystal structure of enoyl-coa hydratase echa8_6 from mycobacterium2 marinum
62	c3t88A_	Alignment	not modelled	99.2	18	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
63	c3trrA_	Alignment	not modelled	99.2	18	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
64	c3greA_	Alignment	not modelled	99.2	19	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
65	c5wybB_	Alignment	not modelled	99.2	16	PDB header: isomerase Chain: B; PDB Molecule: probable enoyl-coa hydratase/isomerase; PDBTitle: structure of pseudomonas aeruginosa dspi
66	c2vx2D_	Alignment	not modelled	99.2	20	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)
67	c4f47A_	Alignment	not modelled	99.2	17	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase echa19; PDBTitle: the structure of enoyl-coa hydratase echa19 from mycobacterium marinum
68	c4olqD_	Alignment	not modelled	99.2	20	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
69	c4kd6A_	Alignment	not modelled	99.2	14	PDB header: isomerase Chain: A; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase/isomerase from burkholderia2 graminis c4d1m
70	c3lkeA_	Alignment	not modelled	99.2	20	PDB header: lyase Chain: A; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from bacillus halodurans
71	d1uiya_	Alignment	not modelled	99.2	23	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
72	c2d3tB_	Alignment	not modelled	99.2	18	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
73	c3p5mB_	Alignment	not modelled	99.2	21	PDB header: isomerase Chain: B; PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium avium
74	c3g64A_	Alignment	not modelled	99.2	19	PDB header: lyase Chain: A; PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of putative enoyl-coa hydratase from streptomyces2 coelicolor a3(2)
75	c3omeE_	Alignment	not modelled	99.2	22	PDB header: lyase Chain: E; PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of a probable enoyl-coa hydratase from mycobacterium2 smegmatis
76	d1xx4a_	Alignment	not modelled	99.2	16	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
77	d1wz8a1	Alignment	not modelled	99.2	18	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
78	c5z7rA_	Alignment	not modelled	99.2	17	PDB header: lyase Chain: A; PDB Molecule: short-chain-enoyl-coa hydratase;

78	c277A	Alignment	not modelled	99.2	17	PDBTitle: crystal structure of crotonase from clostridium acetobutylicum
79	c2x58B	Alignment	not modelled	99.2	21	PDB header: oxidoreductase Chain: B: PDB Molecule: peroxisomal bifunctional enzyme; PDBTitle: the crystal structure of mfe1 liganded with coa
80	c3rrvC	Alignment	not modelled	99.2	19	PDB header: isomerase Chain: C: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium paratuberculosis
81	c3isaA	Alignment	not modelled	99.2	21	PDB header: hydrolase Chain: A: PDB Molecule: putative enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of putative enoyl-coa hydratase/isomerase from2 bordetella parapertussis
82	c2ppyE	Alignment	not modelled	99.2	19	PDB header: lyase Chain: E: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydrates (gk_1992) from geobacillus2 kaustophilus hta426
83	d1hzda	Alignment	not modelled	99.2	16	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
84	c3mybA	Alignment	not modelled	99.2	16	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase mycobacterium smegmatis
85	d2a7ka1	Alignment	not modelled	99.2	15	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
86	d1dcia	Alignment	not modelled	99.1	18	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
87	c3qxiA	Alignment	not modelled	99.1	19	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase echa1; PDBTitle: crystal structure of enoyl-coa hydratase echa1 from mycobacterium2 marinum
88	d2f6qa1	Alignment	not modelled	99.1	17	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
89	c3r0oA	Alignment	not modelled	99.1	17	PDB header: lyase Chain: A: PDB Molecule: carnitiny-coa dehydratase; PDBTitle: crystal structure of carnitiny-coa hydratase from mycobacterium avium
90	c4k29A	Alignment	not modelled	99.1	17	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 xanthobacter autotrophicus py2
91	d1rjma	Alignment	not modelled	99.1	18	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
92	c4i4zE	Alignment	not modelled	99.1	17	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
93	c3q1tB	Alignment	not modelled	99.1	15	PDB header: lyase Chain: B: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of enoyl-coa hydratase from mycobacterium avium
94	c3sllC	Alignment	not modelled	99.1	16	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
95	d1sg4a1	Alignment	not modelled	99.1	19	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
96	c4mouA	Alignment	not modelled	99.1	15	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
97	c3h0uB	Alignment	not modelled	99.1	21	PDB header: lyase Chain: B: PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of a putative enoyl-coa hydratase from streptomyces2 avermitilis
98	c2f6qA	Alignment	not modelled	99.1	17	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)
99	d1mj3a	Alignment	not modelled	99.1	18	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Crotonase-like
100	c4nngB	Alignment	not modelled	99.1	17	PDB header: lyase Chain: B: PDB Molecule: putative enoyl-coa hydratase; PDBTitle: crystal structure of lnmf protein from streptomyces amphibiosporus
101	c4k3wA	Alignment	not modelled	99.1	15	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 marinobacter aquaeolei
102	c6ojmB	Alignment	not modelled	99.1	17	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
103	c3swxB	Alignment	not modelled	99.1	15	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
						PDB header: lyase, isomerase

104	c3ju1A_	Alignment	not modelled	99.1	19	Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase family protein; PDBTitle: crystal structure of enoyl-coa hydratase/isomerase family protein
105	c4jy1A_	Alignment	not modelled	99.1	12	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
106	c1rjnC_	Alignment	not modelled	99.1	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
107	c2wtbA_	Alignment	not modelled	99.1	18	PDB header: oxidoreductase Chain: A: PDB Molecule: fatty acid multifunctional protein (atmfp2); PDBTitle: arabidopsis thaliana multifunctional protein, mfp2
108	c4hdtA_	Alignment	not modelled	99.1	18	PDB header: isomerase Chain: A: PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of a carnitiny-coa dehydratase from mycobacterium2 thermoresistibile
109	c4jotA_	Alignment	not modelled	99.1	20	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase, putative; PDBTitle: crystal structure of enoyl-coa hydratase from deinococcus radiodurans2 r1
110	c3laoA_	Alignment	not modelled	99.0	15	PDB header: lyase, isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of enoyl-coa hydratase from pseudomonas2 aeruginosa pa01
111	c4kpkA_	Alignment	not modelled	99.0	14	PDB header: isomerase Chain: A: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of a enoyl-coa hydratase from shewanella pealeana2 atcc 700345
112	c6iunB_	Alignment	not modelled	99.0	13	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
113	c3gkbA_	Alignment	not modelled	99.0	16	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
114	c3tifF_	Alignment	not modelled	99.0	14	PDB header: isomerase Chain: F: PDB Molecule: enoyl-coa hydratase/isomerase; PDBTitle: crystal structure of an enoyl-coa hydratase/isomerase from2 mycobacterium paratuberculosis
115	c3qxzA_	Alignment	not modelled	99.0	21	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
116	c3m6nA_	Alignment	not modelled	99.0	12	PDB header: lyase Chain: A: PDB Molecule: rpff protein; PDBTitle: crystal structure of rpff
117	c4izbB_	Alignment	not modelled	99.0	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
118	c3oc7A_	Alignment	not modelled	99.0	16	PDB header: lyase Chain: A: PDB Molecule: enoyl-coa hydratase; PDBTitle: crystal structure of an enoyl-coa hydratase from mycobacterium avium
119	c4og1A_	Alignment	not modelled	99.0	18	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
120	c3bptA_	Alignment	not modelled	99.0	13	PDB header: hydrolase Chain: A: PDB Molecule: 3-hydroxyisobutyryl-coa hydrolase; PDBTitle: crystal structure of human beta-hydroxyisobutyryl-coa hydrolase in2 complex with quercetin