


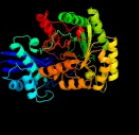




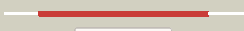













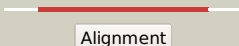




Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1023_ (eno)_1144568_1145857
Date	Wed Jul 31 22:05:09 BST 2019
Unique Job ID	349b460df43e0838

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1iyxA_	 Alignment		100.0	59	PDB header: lyase Chain: A: PDB Molecule: enolase; PDBTitle: crystal structure of enolase from enterococcus hirae
2	c6nbmB_	 Alignment		100.0	58	PDB header: lyase Chain: B: PDB Molecule: enolase; PDBTitle: crystal structure of enolase from legionella pneumophila bound to2 phosphate and magnesium
3	c4ropA_	 Alignment		100.0	62	PDB header: lyase Chain: A: PDB Molecule: enolase; PDBTitle: crystal structure of enolase from synechococcus elongatus
4	c4z1yA_	 Alignment		100.0	60	PDB header: lyase Chain: A: PDB Molecule: enolase; PDBTitle: thermostable enolase from chloroflexus aurantiacus with substrate 2-2 phosphoglycerate
5	c6j36B_	 Alignment		100.0	52	PDB header: cell adhesion Chain: B: PDB Molecule: enolase; PDBTitle: crystal structure of mycoplasma hyopneumoniae enolase
6	c2fymA_	 Alignment		100.0	55	PDB header: lyase Chain: A: PDB Molecule: enolase; PDBTitle: crystal structure of e. coli enolase complexed with the minimal2 binding segment of rnase e.
7	c6o4nB_	 Alignment		100.0	54	PDB header: hydrolase Chain: B: PDB Molecule: enolase; PDBTitle: crystal structure of enolase from chlamydia trachomatis
8	c3uj2C_	 Alignment		100.0	57	PDB header: lyase Chain: C: PDB Molecule: enolase 1; PDBTitle: crystal structure of an enolase from anaerostipes caccae (efi target2 efi-502054) with bound mg and sulfate
9	c3qn3B_	 Alignment		100.0	54	PDB header: lyase Chain: B: PDB Molecule: enolase; PDBTitle: phosphopyruvate hydratase from campylobacter jejuni.
10	c3otrC_	 Alignment		100.0	50	PDB header: lyase Chain: C: PDB Molecule: enolase; PDBTitle: 2.75 angstrom crystal structure of enolase 1 from toxoplasma gondii
11	c3tqpA_	 Alignment		100.0	56	PDB header: lyase Chain: A: PDB Molecule: enolase; PDBTitle: structure of an enolase (eno) from coxiella burnetii

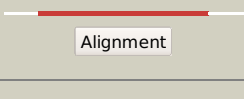
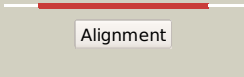
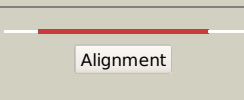
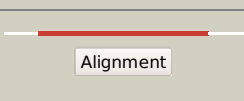
12	c2pa6A	 Alignment		100.0	57	PDB header: lyase Chain: A: PDB Molecule: enolase; PDBTitle: crystal structure of mj0232 from methanococcus jannaschii
13	c2akmA	 Alignment		100.0	55	PDB header: lyase Chain: A: PDB Molecule: gamma enolase; PDBTitle: fluoride inhibition of enolase: crystal structure of the2 inhibitory complex
14	c1l8pC	 Alignment		100.0	52	PDB header: lyase Chain: C: PDB Molecule: enolase 1; PDBTitle: mg-phosphonoacetylhydroxamate complex of s39a yeast enolase 1
15	c3qtpB	 Alignment		100.0	52	PDB header: lyase Chain: B: PDB Molecule: enolase 1; PDBTitle: crystal structure analysis of entamoeba histolytica enolase
16	c2ptwA	 Alignment		100.0	53	PDB header: lyase Chain: A: PDB Molecule: enolase; PDBTitle: crystal structure of the t. brucei enolase complexed with2 sulphate, identification of a metal binding site iv
17	d1iyx1	 Alignment		100.0	56	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: Enolase
18	d2fyma1	 Alignment		100.0	55	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: Enolase
19	d1w6ta1	 Alignment		100.0	53	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: Enolase
20	d2a11a1	 Alignment		100.0	53	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: Enolase
21	d2akza1	 Alignment	not modelled	100.0	53	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: Enolase
22	d2ptza1	 Alignment	not modelled	100.0	51	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: Enolase
23	d1pdza1	 Alignment	not modelled	100.0	51	Fold: TIM beta/alpha-barrel Superfamily: Enolase C-terminal domain-like Family: Enolase
24	c3thuC	 Alignment	not modelled	100.0	20	PDB header: lyase Chain: C: PDB Molecule: mandelate racemase / muconate lactonizing enzyme family PDBTitle: crystal structure of an enolase from sphingomonas sp. ska58 (efi2 target efi-501683) with bound mg
25	c2o56D	 Alignment	not modelled	100.0	14	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: putative mandelate racemase; PDBTitle: crystal structure of a member of the enolase superfamily from2 salmonella typhimurium
26	c4e4uA	 Alignment	not modelled	100.0	15	PDB header: isomerase Chain: A: PDB Molecule: mandalate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of a putative mandelate racemase/muconate2 lactonizing enzyme (target psi-200780) from burkholderia sar-1
27	c3v3wA	 Alignment	not modelled	100.0	18	PDB header: lyase Chain: A: PDB Molecule: starvation sensing protein rspa; PDBTitle: crystal structure of an enolase from the soil bacterium cellvibrio2 japonicus (target efi-502161) with bound mg and glycerol
28	c2o15A	 Alignment	not modelled	100.0	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative dehydratase protein;

28	c2qj2A_	Alignment	not modelled	100.0	15	PDBTitle: crystal structure of putative dehydratase from salmonella thyphimurium PDB header: lyase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme, n-terminal
29	c3tj1A_	Alignment	not modelled	100.0	17	PDBTitle: crystal structure of an enolase from enterobacter sp. 638 (efi target2 efi-501662) with bound mg PDB header: isomerase Chain: E: PDB Molecule: mandelate racemase/muconate lactonizing enzyme;
30	c4j3zE_	Alignment	not modelled	100.0	17	PDBTitle: crystal structure of mandelate racemase/muconate lactonizing enzyme2 from jannaschia sp. ccs1 PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme;
31	c4hnlA_	Alignment	not modelled	100.0	20	PDBTitle: crystal structure of enolase egbg_01401 (target efi-502226) from2 enterococcus gallinarum eg2 PDB header: lyase Chain: B: PDB Molecule: enolase;
32	c4gisB_	Alignment	not modelled	100.0	16	PDBTitle: crystal structure of an enolase family member from vibrio harveyi2 (efi-target 501692) with homology to mannonate dehydratase, with mg,3 glycerol and dicarboxylates bound (mixed loops, space group i4122) PDB header: isomerase Chain: C: PDB Molecule: mandelate racemase;
33	c3dfhC_	Alignment	not modelled	100.0	19	PDBTitle: crystal structure of putative mandelate racemase / muconate2 lactonizing enzyme from vibrionales bacterium swat-3 PDB header: isomerase Chain: E: PDB Molecule: putative mandelate racemase;
34	c2ox4E_	Alignment	not modelled	100.0	16	PDBTitle: crystal structure of putative dehydratase from zymomonas mobilis zm4 PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase / muconate lactonizing enzyme, c-
35	c4e5tA_	Alignment	not modelled	100.0	14	PDBTitle: crystal structure of a putative mandelate racemase/muconate2 lactonizing enzyme (target psi-200750) from labrenzia alexandrii dfl-3 11 PDB header: isomerase Chain: B: PDB Molecule: chloromuconate cycloisomerase;
36	c4m0xB_	Alignment	not modelled	100.0	17	PDBTitle: crystal structure of 2-chloromuconate cycloisomerase from rhodococcus2 opacus 1cp PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative dehydratase;
37	c2pozA_	Alignment	not modelled	100.0	17	PDBTitle: crystal structure of a putative dehydratase from mesorhizobium loti PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing protein;
38	c3gy1B_	Alignment	not modelled	100.0	20	PDBTitle: crystal structure of putative mandelate racemase/muconate lactonizing2 protein from clostridium beijerinckii ncimb 8052 PDB header: isomerase Chain: D: PDB Molecule: mannonate dehydratase;
39	c4e4fD_	Alignment	not modelled	100.0	17	PDBTitle: crystal structure of enolase pc1_0802 (target efi-502240) from2 pectobacterium carotovorum subsp. carotovorum pc1 PDB header: lyase Chain: C: PDB Molecule: mandelate racemase/muconate lactonizing enzyme;
40	c2qjjC_	Alignment	not modelled	100.0	20	PDBTitle: crystal structure of d-mannonate dehydratase from novosphingobium2 aromaticivorans PDB header: lyase Chain: A: PDB Molecule: enolase;
41	c3dipA_	Alignment	not modelled	100.0	21	PDBTitle: crystal structure of an enolase protein from the environmental genome2 shotgun sequencing of the sargasso sea PDB header: lyase Chain: A: PDB Molecule: enolase;
42	c4jn8A_	Alignment	not modelled	100.0	16	PDBTitle: crystal structure of an enolase (putative galactarate dehydratase,2 target efi-500740) from agrobacterium radiobacter, bound sulfate, no3 metal ion, ordered active site PDB header: lyase Chain: B: PDB Molecule: putative mand family dehydratase;
43	c3t6cB_	Alignment	not modelled	100.0	18	PDBTitle: crystal structure of an enolase from pantoea ananatis (efi target efi-2 501676) with bound d-gluconate and mg PDB header: isomerase Chain: C: PDB Molecule: mandelate racemase/muconate lactonizing enzyme-like
44	c3rcyC_	Alignment	not modelled	100.0	16	PDBTitle: crystal structure of mandelate racemase/muconate lactonizing enzyme-2 like protein from roseovarius sp. tm1035 PDB header: isomerase Chain: A: PDB Molecule: protein (muconate cycloisomerase i);
45	c1f9cA_	Alignment	not modelled	100.0	19	PDBTitle: crystal structure of mle d178n variant PDB header: lyase Chain: E: PDB Molecule: mandelate racemase/muconate lactonizing enzyme
46	c2p88E_	Alignment	not modelled	100.0	21	PDBTitle: crystal structure of n-succinyl arg/lys racemase from2 bacillus cereus atcc 14579 PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing enzyme-
47	c2qq6B_	Alignment	not modelled	100.0	16	PDBTitle: crystal structure of mandelate racemase/muconate2 lactonizing enzyme-like protein from rubrobacter3 xylanophilus dsm 9941 PDB header: lyase Chain: D: PDB Molecule: mandelate racemase/muconate lactonizing enzyme;
48	c3bsmD_	Alignment	not modelled	100.0	20	PDBTitle: crystal structure of d-mannonate dehydratase from chromohalobacter2 salexigens PDB header: isomerase Chain: A: PDB Molecule: putative l-alanine-dl-glutamate epimerase;
49	c2oo6A_	Alignment	not modelled	100.0	15	PDBTitle: crystal structure of putative l-alanine-dl-glutamate epimerase from2 burkholderia xenovorans strain lb400 PDB header: lyase

50	c3tj4B_	Alignment	not modelled	100.0	19	Chain: B: PDB Molecule: mandelate racemase; PDBTitle: crystal structure of an enolase from agrobacterium tumefaciens (efi2 target efi-502087) no mg
51	c3fcpF_	Alignment	not modelled	100.0	20	PDB header: isomerase Chain: F: PDB Molecule: l-ala-d/l-glu epimerase, a muconate lactonizing enzyme; PDBTitle: crystal structure of muconate lactonizing enzyme from klebsiella2 pneumoniae
52	c3n4eA_	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme, c-terminal PDBTitle: crystal structure of mandelate racemase/muconate lactonizing protein2 from paracoccus denitrificans pd1222
53	c3mqtV_	Alignment	not modelled	100.0	22	PDB header: isomerase Chain: V: PDB Molecule: PDBTitle: crystal structure of a mandelate racemase/muconate lactonizing enzyme2 from shewanella pealeana
54	c2qgyA_	Alignment	not modelled	100.0	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: enolase from the environmental genome shotgun sequencing of PDBTitle: crystal structure of an enolase from the environmental genome shotgun2 sequencing of the sargasso sea
55	c2qdeA_	Alignment	not modelled	100.0	22	PDB header: lyase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme family PDBTitle: crystal structure of mandelate racemase/muconate lactonizing family2 protein from azoarcus sp. ebn1
56	c3sjnB_	Alignment	not modelled	100.0	17	PDB header: lyase Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing protein; PDBTitle: crystal structure of enolase spea_3858 (target efi-500646) from2 shewanella pealeana with magnesium bound
57	c3i6eA_	Alignment	not modelled	100.0	17	PDB header: isomerase Chain: A: PDB Molecule: muconate cycloisomerase i; PDBTitle: crystal structure of muconate lactonizing enzyme from ruegeria2 pomeroyi.
58	c2oz3F_	Alignment	not modelled	100.0	24	PDB header: lyase Chain: F: PDB Molecule: mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of l-rhamnonate dehydratase from azotobacter2 vinelandii
59	c3px5A_	Alignment	not modelled	100.0	18	PDB header: metal binding protein Chain: A: PDB Molecule: enzyme of enolase superfamily; PDBTitle: structure of efi enolase target en500555, a putative dipeptide2 epimerase: apo structure
60	c3cb3B_	Alignment	not modelled	100.0	24	PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of l-taralate dehydratase from polaromonas sp. js6662 complexed with mg and l-glucarate
61	c2chrA_	Alignment	not modelled	100.0	16	PDB header: isomerase Chain: A: PDB Molecule: chloromuconate cycloisomerase; PDBTitle: a re-evaluation of the crystal structure of chloromuconate2 cycloisomerase
62	c2pp1C_	Alignment	not modelled	100.0	19	PDB header: lyase Chain: C: PDB Molecule: l-taralate/galactarate dehydratase; PDBTitle: crystal structure of l-taralate/galactarate dehydratase from2 salmonella typhimurium lt2 liganded with mg and l-lyxarohydroxamate
63	c1rvkA_	Alignment	not modelled	100.0	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: isomerase/lactonizing enzyme; PDBTitle: crystal structure of enolase agr_1_2751 from agrobacterium tumefaciens
64	c3mkcA_	Alignment	not modelled	100.0	20	PDB header: isomerase Chain: A: PDB Molecule: racemase; PDBTitle: crystal structure of a putative racemase
65	c5xd9A_	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: A: PDB Molecule: 3,6-anhydro-alpha-l-galactonate cycloisomerase; PDBTitle: crystal structure analysis of 3,6-anhydro-l-galactonate cycloisomerase
66	c2podA_	Alignment	not modelled	100.0	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: mandelate racemase / muconate lactonizing enzyme; PDBTitle: crystal structure of a member of enolase superfamily from burkholderia2 pseudomallei k96243
67	c3rr1B_	Alignment	not modelled	100.0	17	PDB header: lyase Chain: B: PDB Molecule: putative d-galactonate dehydratase; PDBTitle: crystal structure of enolase prk14017 (target efi-500653) from2 ralstonia pickettii 12j
68	c3sqsa_	Alignment	not modelled	100.0	21	PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing protein; PDBTitle: crystal structure of a putative mandelate racemase/muconate2 lactonizing protein from dinoroseobacter shibae dfj 12
69	c4ggba_	Alignment	not modelled	100.0	22	PDB header: isomerase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of a proposed galactarolactone cycloisomerase from2 agrobacterium tumefaciens, target efi-500704, with bound ca,3 disordered loops
70	c3h12B_	Alignment	not modelled	100.0	23	PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase; PDBTitle: crystal structure of putative mandelate racemase from bordetella2 bronchiseptica rb50
71	c3t8qa_	Alignment	not modelled	100.0	17	PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme family PDBTitle: crystal structure of mandelate racemase/muconate lactonizing enzyme2 family protein from hoeflea phototrophica
						PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase/muconate

72	c3t9pB_	Alignment	not modelled	100.0	16	lactonizing enzyme family PDBTitle: crystal structure of a putative mandelate racemase/muconate2 lactonizing enzyme family protein from roseovarius
73	c3jw7E_	Alignment	not modelled	100.0	24	PDB header: isomerase Chain: E: PDB Molecule: dipeptide epimerase; PDBTitle: crystal structure of dipeptide epimerase from enterococcus faecalis2 v583 complexed with mg and dipeptide l-ile-l-tyr
74	c1nu5A_	Alignment	not modelled	100.0	17	PDB header: isomerase Chain: A: PDB Molecule: chloromuconate cycloisomerase; PDBTitle: crystal structure of pseudomonas sp. p51 chloromuconate lactonizing2 enzyme
75	c3i4kA_	Alignment	not modelled	100.0	22	PDB header: isomerase Chain: A: PDB Molecule: muconate lactonizing enzyme; PDBTitle: crystal structure of muconate lactonizing enzyme from corynebacterium2 glutamicum
76	c3q45E_	Alignment	not modelled	100.0	20	PDB header: isomerase Chain: E: PDB Molecule: mandelate racemase/muconate lactonizing enzyme family; PDBTitle: crystal structure of dipeptide epimerase from cytophaga hutchinsonii2 complexed with mg and dipeptide d-ala-l-val
77	c5olcG_	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: G: PDB Molecule: galactonate dehydratase; PDBTitle: crystal structure of the 3,6-anhydro-d-galactonate cycloisomerase from2 zobellia galactanivorans
78	c3es8D_	Alignment	not modelled	100.0	17	PDB header: isomerase, lyase Chain: D: PDB Molecule: muconate cycloisomerase; PDBTitle: crystal structure of divergent enolase from oceanobacillus iheyensis2 complexed with mg and l-malate.
79	c3fv9D_	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: D: PDB Molecule: mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of putative mandelate racemase/muconatelactonizing2 enzyme from roseovarius nubinhibens ism complexed with magnesium
80	c3cxoA_	Alignment	not modelled	100.0	17	PDB header: lyase Chain: A: PDB Molecule: putative galactonate dehydratase; PDBTitle: crystal structure of l-rhamnonate dehydratase from2 salmonella typhimurium complexed with mg and 3-deoxy-l-3 rhamnonate
81	c2fkpC_	Alignment	not modelled	100.0	21	PDB header: isomerase Chain: C: PDB Molecule: n-acylamino acid racemase; PDBTitle: the mutant g127c-t313c of deinococcus radiodurans n-2 acylamino acid racemase
82	c1kkoB_	Alignment	not modelled	100.0	20	PDB header: lyase Chain: B: PDB Molecule: 3-methylaspartate ammonia-lyase; PDBTitle: crystal structure of citrobacter amalonicus2 methylaspartate ammonia lyase
83	c3mwcA_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing protein; PDBTitle: crystal structure of probable o-succinylbenzoic acid synthetase from2 kosmotoga olearia
84	c2ovlA_	Alignment	not modelled	100.0	23	PDB header: isomerase Chain: A: PDB Molecule: putative racemase; PDBTitle: crystal structure of a racemase from streptomyces2 coelicolor a3(2)
85	c2nqlB_	Alignment	not modelled	100.0	18	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: isomerase/lactonizing enzyme; PDBTitle: crystal structure of a member of the enolase superfamily from2 agrobacterium tumefaciens
86	c4it1A_	Alignment	not modelled	100.0	17	PDB header: isomerase Chain: A: PDB Molecule: putative glucarate dehydratase; PDBTitle: crystal structure of enolase pfl01_3283 (target efi-502286) from2 pseudomonas fluorescens pf0-1 with bound magnesium, potassium and3 tartrate
87	c1jpmB_	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: B: PDB Molecule: l-ala-d/l-glu epimerase; PDBTitle: l-ala-d/l-glu epimerase
88	c3my9A_	Alignment	not modelled	100.0	21	PDB header: isomerase Chain: A: PDB Molecule: muconate cycloisomerase; PDBTitle: crystal structure of a muconate cycloisomerase from azorhizobium2 caulinodans
89	c3ik4A_	Alignment	not modelled	100.0	23	PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing protein; PDBTitle: crystal structure of mandelate racemase/muconate lactonizing protein2 from herpetosiphon aurantiacus
90	c3bjsB_	Alignment	not modelled	100.0	19	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of a member of enolase superfamily from polaromonas2 sp. js666
91	c2hxtA_	Alignment	not modelled	100.0	24	PDB header: unknown function Chain: A: PDB Molecule: l-fuconate dehydratase; PDBTitle: crystal structure of l-fuconate dehydratase from xanthomonas2 campestris liganded with mg++ and d-erythronhydroxamate
92	c2rdxG_	Alignment	not modelled	100.0	15	PDB header: structural genomics, unknown function Chain: G: PDB Molecule: mandelate racemase/muconate lactonizing enzyme, putative; PDBTitle: crystal structure of mandelate racemase/muconate lactonizing enzyme2 from roseovarius nubinhibens ism
93	c3dg7B_	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: B: PDB Molecule: muconate cycloisomerase; PDBTitle: crystal structure of muconate lactonizing enzyme from mucobacterium2 smegmatis complexed with muconolactone
94	c2pgwC_	Alignment	not modelled	100.0	20	PDB header: isomerase Chain: C: PDB Molecule: muconate cycloisomerase; PDBTitle: crystal structure of a putative muconate cycloisomerase from2 sinorhizobium meliloti 1021

95	c2oqhD	Alignment	not modelled	100.0	18	PDB header: isomerase Chain: D: PDB Molecule: putative isomerase; PDBTitle: crystal structure of an isomerase from streptomyces coelicolor a3(2)
96	c3i6tB	Alignment	not modelled	100.0	18	PDB header: isomerase Chain: B: PDB Molecule: muconate cycloisomerase; PDBTitle: crystal structure of muconate cycloisomerase from jannaschia sp.
97	c4jhmC	Alignment	not modelled	100.0	20	PDB header: isomerase Chain: C: PDB Molecule: mandelate racemase / muconate lactonizing enzyme, c- PDBTitle: crystal structure of a putative mandelate racemase/muconate2 lactonizing enzyme from pseudovibrio sp.
98	c3cyjA	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme-like PDBTitle: crystal structure of a mandelate racemase/muconate lactonizing enzyme-2 like protein from rubrobacter xylanophilus
99	c2p0iA	Alignment	not modelled	100.0	20	PDB header: lyase Chain: A: PDB Molecule: l-rhamnonate dehydratase; PDBTitle: crystal structure of l-rhamnonate dehydratase from gibberella zeae
100	c3u4fC	Alignment	not modelled	100.0	17	PDB header: isomerase Chain: C: PDB Molecule: mandelate racemase/muconate lactonizing enzyme family PDBTitle: crystal structure of a mandelate racemase (muconate lactonizing enzyme2 family protein) from roseovarius nubinihibens
101	c2ps2A	Alignment	not modelled	100.0	17	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of putative mandelate racemase/muconate lactonizing2 enzyme from aspergillus oryzae
102	c3toyC	Alignment	not modelled	100.0	23	PDB header: lyase Chain: C: PDB Molecule: mandelate racemase/muconate lactonizing enzyme family PDBTitle: crystal structure of enolase brado_4202 (target efi-501651) from2 bradyrhizobium sp. ors278 with calcium and acetate bound
103	c3ddmD	Alignment	not modelled	100.0	22	PDB header: lyase Chain: D: PDB Molecule: putative mandelate racemase/muconate lactonizing PDBTitle: crystal structure of mandelate racemase/muconate2 lactonizing enzyme from bordetella bronchiseptica rb50
104	c2gdqB	Alignment	not modelled	100.0	17	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: yitf; PDBTitle: crystal structure of mandelate racemase/muconate lactonizing enzyme2 from bacillus subtilis at 1.8 a resolution
105	c2hzgB	Alignment	not modelled	100.0	18	PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing enzyme/enolase PDBTitle: crystal structure of predicted mandelate racemase from rhodobacter2 sphaeroides
106	c3u9iA	Alignment	not modelled	100.0	25	PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme, c-terminal PDBTitle: the crystal structure of mandelate racemase/muconate lactonizing2 enzyme from roseiflexus sp.
107	c3dfyl	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: J: PDB Molecule: muconate cycloisomerase; PDBTitle: crystal structure of apo dipeptide epimerase from2 thermotoga maritima
108	c2zc8B	Alignment	not modelled	100.0	22	PDB header: metal binding protein Chain: B: PDB Molecule: n-acylamino acid racemase; PDBTitle: crystal structure of n-acylamino acid racemase from thermus2 thermophilus hb8
109	c3msyC	Alignment	not modelled	100.0	16	PDB header: isomerase Chain: C: PDB Molecule: mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of mandelate racemase/muconate lactonizing enzyme2 from a marine actinobacterium
110	c4ip4B	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: B: PDB Molecule: mandelate racemase/muconate lactonizing enzyme-like PDBTitle: crystal structure of l-fuconate dehydratase from silicibacter sp.2 tm1040 liganded with mg
111	c1mraA	Alignment	not modelled	100.0	20	PDB header: racemase Chain: A: PDB Molecule: mandelate racemase; PDBTitle: mandelate racemase mutant d270n co-crystallized with (s)-atrolactate
112	c1wufB	Alignment	not modelled	100.0	17	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein lin2664; PDBTitle: crystal structure of protein gi:16801725, member of enolase2 superfamily from listeria innocua clip11262
113	c3ritE	Alignment	not modelled	100.0	18	PDB header: isomerase Chain: E: PDB Molecule: dipeptide epimerase; PDBTitle: crystal structure of dipeptide epimerase from methylococcus capsulatus2 complexed with mg and dipeptide l-arg-d-lys
114	c4e8gA	Alignment	not modelled	100.0	16	PDB header: isomerase Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme, n-terminal PDBTitle: crystal structure of an enolase (mandelate racemase subgroup) from2 paracoccus denitrificans pd1222 (target nysgrc-012907) with bound mg
115	c4mggB	Alignment	not modelled	100.0	19	PDB header: isomerase Chain: B: PDB Molecule: muconate lactonizing enzyme; PDBTitle: crystal structure of an enolase (mandelate racemase subgroup) from2 labrenzia aggregata iam 12614 (target nysgrc-012903) with bound mg,3 space group p212121
116	c3zviB	Alignment	not modelled	100.0	17	PDB header: lyase Chain: B: PDB Molecule: methylaspartate ammonia-lyase; PDBTitle: methylaspartate ammonia lyase from clostridium tetanomorphum mutant2 l384a

117	c1sjaA_	 Alignment	not modelled	100.0	20	PDB header: lyase, isomerase Chain: A: PDB Molecule: n-acylamino acid racemase; PDBTitle: x-ray structure of o-succinylbenzoate synthase complexed2 with n-acetylmethionine
118	c2qddA_	 Alignment	not modelled	100.0	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of a member of enolase superfamily from roseovarius2 nubinihibens ism
119	c3eezA_	 Alignment	not modelled	100.0	17	PDB header: isomerase Chain: A: PDB Molecule: putative mandelate racemase/muconate lactonizing enzyme; PDBTitle: crystal structure of a putative mandelate racemase/muconate2 lactonizing enzyme from silicibacter pomeroyi
120	c3vdgA_	 Alignment	not modelled	100.0	18	PDB header: lyase Chain: A: PDB Molecule: probable glucarate dehydratase; PDBTitle: crystal structure of enolase msmeg_6132 (target efi-502282) from2 mycobacterium smegmatis str. mc2 155 complexed with formate and3 acetate