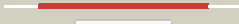



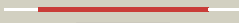




















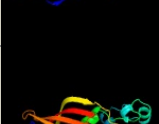







# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0637 (-) _732828_733328
Date	Fri Jul 26 01:50:20 BST 2019
Unique Job ID	083c6201ac944a1a

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c4ritA_</a>	 Alignment		100.0	48	<b>PDB header:</b> lyase/lyase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> (3r)-hydroxyacyl-accp dehydratase subunit hada; <b>PDBTitle:</b> crystal structure of (3r)-hydroxyacyl-accp dehydratase hadab hetero-2 dimer from mycobacterium tuberculosis complexed with fisetin
2	<a href="#">c4rv2A_</a>	 Alignment		100.0	54	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> upf0336 protein msmeg_1340/msmei_1302; <b>PDBTitle:</b> crystal structure of (3r)-hydroxyacyl-accp dehydratase hadab hetero-2 dimer from mycobacterium smegmatis
3	<a href="#">c5zy8A_</a>	 Alignment		100.0	98	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> upf0336 protein rv0637; <b>PDBTitle:</b> crystal structure of c terminal truncated hadbc (3r)-hydroxyacyl-accp2 dehydratase) complex from mycobacterium tuberculosis
4	<a href="#">c4v12A_</a>	 Alignment		100.0	33	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> maoc like domain protein; <b>PDBTitle:</b> crystal structure of the msmeg_6754 dehydratase from mycobacterium2 smegmatis
5	<a href="#">c4w7bG_</a>	 Alignment		100.0	14	<b>PDB header:</b> lyase <b>Chain:</b> G: <b>PDB Molecule:</b> hydratase chsh1; <b>PDBTitle:</b> crystal structure of the chsh1:chsh2: complex from mycobacterium2 tuberculosis
6	<a href="#">c4e3eA_</a>	 Alignment		100.0	12	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> maoc domain protein dehydratase; <b>PDBTitle:</b> crystal structure of putative maoc domain protein dehydratase from2 chloroflexus aurantiacus j-10-fl
7	<a href="#">d1q6wa_</a>	 Alignment		100.0	17	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
8	<a href="#">c3exzA_</a>	 Alignment		100.0	17	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> maoc-like dehydratase; <b>PDBTitle:</b> crystal structure of the maoc-like dehydratase from rhodospirillum2 rubrum. northeast structural genomics consortium target rrr103a.
9	<a href="#">c4ffuA_</a>	 Alignment		100.0	21	<b>PDB header:</b> oxidoreductase <b>Chain:</b> A: <b>PDB Molecule:</b> oxidase; <b>PDBTitle:</b> crystal structure of putative maoc-like (monoamine oxidase-like)2 protein, similar to nodn from sinorhizobium meliloti 1021
10	<a href="#">c5cpgA_</a>	 Alignment		99.9	16	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> (r)-specific enoyl-coa hydratase; <b>PDBTitle:</b> r-hydratase phaj1 from pseudomonas aeruginosa in the unliganded form
11	<a href="#">c3khpB_</a>	 Alignment		99.9	16	<b>PDB header:</b> oxidoreductase <b>Chain:</b> B: <b>PDB Molecule:</b> maoc family protein; <b>PDBTitle:</b> crystal structure of a possible dehydrogenase from mycobacterium2 tuberculosis at 2.3a resolution

12	<a href="#">c2bi0A</a>	Alignment		99.9	13	<b>PDB header:</b> hypothetical protein <b>Chain:</b> A: <b>PDB Molecule:</b> hypothetical protein rv0216; <b>PDBTitle:</b> rv0216, a conserved hypothetical protein from mycobacterium2 tuberculosis that is essential for bacterial survival3 during infection, has a double hotdogfold
13	<a href="#">d1iq6a</a>	Alignment		99.9	16	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
14	<a href="#">d2bi0a1</a>	Alignment		99.9	13	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
15	<a href="#">d2c2ia1</a>	Alignment		99.9	18	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
16	<a href="#">c4w7bD</a>	Alignment		99.9	14	<b>PDB header:</b> lyase <b>Chain:</b> D: <b>PDB Molecule:</b> hydratase chsh2; <b>PDBTitle:</b> crystal structure of the chsh1:chsh2: complex from mycobacterium2 tuberculosis
17	<a href="#">d2b3na1</a>	Alignment		99.9	18	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
18	<a href="#">d1pn2a1</a>	Alignment		99.8	8	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
19	<a href="#">c3ir3B</a>	Alignment		99.8	16	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> 3-hydroxyacyl-thioester dehydratase 2; <b>PDBTitle:</b> crystal structure of human 3-hydroxyacyl-thioester dehydratase 22 (htd2)
20	<a href="#">c4rv2B</a>	Alignment		99.8	14	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> maoc family protein; <b>PDBTitle:</b> crystal structure of (3r)-hydroxyacyl- <i>acp</i> dehydratase hadab hetero-2 dimer from mycobacterium smegmatis
21	<a href="#">d2bi0a2</a>	Alignment	not modelled	99.8	14	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
22	<a href="#">c3kh8B</a>	Alignment	not modelled	99.8	13	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> maoc-like dehydratase; <b>PDBTitle:</b> crystal structure of maoc-like dehydratase from phytophthora capsici
23	<a href="#">c1s9cK</a>	Alignment	not modelled	99.8	14	<b>PDB header:</b> lyase <b>Chain:</b> K: <b>PDB Molecule:</b> peroxisomal multifunctional enzyme type 2; <b>PDBTitle:</b> crystal structure analysis of the 2-enoyl-coa hydratase 22 domain of human peroxisomal multifunctional enzyme type 2
24	<a href="#">c1pn2D</a>	Alignment	not modelled	99.7	9	<b>PDB header:</b> lyase <b>Chain:</b> D: <b>PDB Molecule:</b> peroxisomal hydratase-dehydrogenase-epimerase; <b>PDBTitle:</b> crystal structure analysis of the selenomethionine labelled2 2-enoyl-coa hydratase 2 domain of candida tropicalis3 multifunctional enzyme type 2
25	<a href="#">d1s9ca2</a>	Alignment	not modelled	99.7	17	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
26	<a href="#">d1pn2a2</a>	Alignment	not modelled	99.7	15	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
27	<a href="#">d1s9ca1</a>	Alignment	not modelled	99.7	15	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> MaoC-like
28	<a href="#">c3om1A</a>	Alignment	not modelled	99.6	14	<b>PDB header:</b> oxidoreductase, hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> peroxisomal multifunctional enzyme type 2, cg3415; <b>PDBTitle:</b> structure of full-length peroxisomal multifunctional

					enzyme type 22 from drosophila melanogaster
29	<a href="#">c2cdhT_</a>	Alignment	not modelled	99.5	16 <b>PDB header:</b> transferase <b>Chain:</b> T: <b>PDB Molecule:</b> dehydratase; <b>PDBTitle:</b> architecture of the thermomyces lanuginosus fungal fatty2 acid synthase at 5 angstrom resolution.
30	<a href="#">c2vkzH_</a>	Alignment	not modelled	99.4	18 <b>PDB header:</b> transferase <b>Chain:</b> H: <b>PDB Molecule:</b> fatty acid synthase subunit beta; <b>PDBTitle:</b> structure of the cerulenin-inhibited fungal fatty acid synthase type i2 multienzyme complex
31	<a href="#">c2uval_</a>	Alignment	not modelled	99.4	18 <b>PDB header:</b> transferase <b>Chain:</b> I: <b>PDB Molecule:</b> fatty acid synthase beta subunits; <b>PDBTitle:</b> crystal structure of fatty acid synthase from thermomyces2 lanuginosus at 3.1 angstrom resolution. this file contains3 the beta subunits of the fatty acid synthase. the entire4 crystal structure consists of one heterododecameric fatty5 acid synthase and is described in remark 400
32	<a href="#">c4b3yB_</a>	Alignment	not modelled	99.1	22 <b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> fatty acid synthase; <b>PDBTitle:</b> cryo-em structure of the mycobacterial fatty acid synthase
33	<a href="#">c2f3xA_</a>	Alignment	not modelled	98.0	13 <b>PDB header:</b> gene regulation <b>Chain:</b> A: <b>PDB Molecule:</b> transcription factor fapr; <b>PDBTitle:</b> crystal structure of fapr (in complex with effector)- a2 global regulator of fatty acid biosynthesis in b. subtilis
34	<a href="#">c4zw0A_</a>	Alignment	not modelled	97.9	19 <b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> 3-hydroxyacyl-[acyl-carrier-protein] dehydratase fabz; <b>PDBTitle:</b> crystal structure of beta-hydroxyacyl-acyl carrier protein dehydratase2 (fabz) from candidatus asiaticum
35	<a href="#">c4a0zA_</a>	Alignment	not modelled	97.9	11 <b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> transcription factor fapr; <b>PDBTitle:</b> structure of the global transcription regulator fapr from2 staphylococcus aureus in complex with malonyl-coa
36	<a href="#">c4ae7A_</a>	Alignment	not modelled	97.8	6 <b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> thioesterase superfamily member 5; <b>PDBTitle:</b> crystal structure of human them5
37	<a href="#">c3lbeA_</a>	Alignment	not modelled	97.7	19 <b>PDB header:</b> unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> putative uncharacterized protein smu.793; <b>PDBTitle:</b> the crystal structure of smu.793 from streptococcus mutans ua159 bound2 to acetyl coa
38	<a href="#">c4i82A_</a>	Alignment	not modelled	97.7	19 <b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> putative uncharacterized protein; <b>PDBTitle:</b> crystal structure of hypothetical thioesterase protein sp_1851 from2 streptococcus pneumoniae tigr4
39	<a href="#">d1s5ua_</a>	Alignment	not modelled	97.7	17 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
40	<a href="#">d1z6ba1</a>	Alignment	not modelled	97.7	14 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> FabZ-like
41	<a href="#">c5eo4A_</a>	Alignment	not modelled	97.7	12 <b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> thioesterase; <b>PDBTitle:</b> structural and biochemical characterization of the hypothetical2 protein sav2348 from staphylococcus aureus.
42	<a href="#">d1u1za_</a>	Alignment	not modelled	97.7	17 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> FabZ-like
43	<a href="#">c4h4gG_</a>	Alignment	not modelled	97.6	14 <b>PDB header:</b> lyase <b>Chain:</b> G: <b>PDB Molecule:</b> (3r)-hydroxymyristoyl-[acyl-carrier-protein] dehydratase; <b>PDBTitle:</b> crystal structure of (3r)-hydroxymyristoyl-[acyl-carrier-protein]2 dehydratase from burkholderia thailandensis e264
44	<a href="#">d2cwza1</a>	Alignment	not modelled	97.6	12 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> TTHA0967-like
45	<a href="#">d1mkaa_</a>	Alignment	not modelled	97.6	16 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> beta-Hydroxydecanol thiol ester dehydrase
46	<a href="#">d2h4ua1</a>	Alignment	not modelled	97.6	17 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
47	<a href="#">d2fs2a1</a>	Alignment	not modelled	97.5	20 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
48	<a href="#">d2ov9a1</a>	Alignment	not modelled	97.5	14 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
49	<a href="#">c3gekA_</a>	Alignment	not modelled	97.5	11 <b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> putative thioesterase yhda; <b>PDBTitle:</b> crystal structure of putative thioesterase yhda from lactococcus2 lactis. northeast structural genomics consortium target kr113
50	<a href="#">c5buyA_</a>	Alignment	not modelled	97.5	13 <b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> 3-hydroxyacyl-[acyl-carrier-protein] dehydratase fabz; <b>PDBTitle:</b> crystal structure of beta-hydroxyacyl-acyl carrier protein dehydratase2 (fabz) from francisella tularensis
51	<a href="#">c2qlvA_</a>	Alignment	not modelled	97.5	16 <b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> (3r)-hydroxymyristoyl-acyl carrier protein dehydratase; <b>PDBTitle:</b> crystal structure of (3r)-hydroxyacyl-acyl carrier protein2 dehydratase(fabz) mutant(y100a) from helicobacter pylori
52	<a href="#">c3d6xA_</a>	Alignment	not modelled	97.5	16 <b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> (3r)-hydroxymyristoyl-[acyl-carrier-protein] dehydratase; <b>PDBTitle:</b> crystal structure of campylobacter jejuni fabz <b>PDB header:</b> hydrolase

53	<a href="#">c4k00A_</a>	Alignment	not modelled	97.5	15	<b>Chain:</b> A: <b>PDB Molecule:</b> 1,4-dihydroxy-2-naphthoyl-coa hydrolase; <b>PDBTitle:</b> crystal structure of slr0204, a 1,4-dihydroxy-2-naphthoyl-coa2 thioesterase from <i>synechocystis</i>
54	<a href="#">c5byuD_</a>	Alignment	not modelled	97.5	10	<b>PDB header:</b> hydrolase <b>Chain:</b> D: <b>PDB Molecule:</b> thioesterase; <b>PDBTitle:</b> crystal structure of unnamed thioesterase ipg2867 from <i>legionella2 pneumophila</i>
55	<a href="#">d2cy9a1</a>	Alignment	not modelled	97.5	17	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
56	<a href="#">c3ck1B_</a>	Alignment	not modelled	97.5	16	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> putative thioesterase; <b>PDBTitle:</b> crystal structure of a putative thioesterase (reut_a2179) from <i>2 ralstonia eutropha jmp134</i> at 1.74 a resolution
57	<a href="#">d1lxa_</a>	Alignment	not modelled	97.5	26	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
58	<a href="#">d2owna1</a>	Alignment	not modelled	97.4	7	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Acyl-ACP thioesterase-like
59	<a href="#">d2essa1</a>	Alignment	not modelled	97.4	8	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Acyl-ACP thioesterase-like
60	<a href="#">c3f1tB_</a>	Alignment	not modelled	97.4	15	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> uncharacterized protein q9i3c8_pseae; <b>PDBTitle:</b> crystal structure of the q9i3c8_pseae protein from <i>pseudomonas2 aeruginosa. northeast structural genomics consortium target par319a.</i>
61	<a href="#">c4ae8D_</a>	Alignment	not modelled	97.4	13	<b>PDB header:</b> hydrolase <b>Chain:</b> D: <b>PDB Molecule:</b> thioesterase superfamily member 4; <b>PDBTitle:</b> crystal structure of human them4
62	<a href="#">d2f0xa1</a>	Alignment	not modelled	97.4	17	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
63	<a href="#">c5buxB_</a>	Alignment	not modelled	97.4	13	<b>PDB header:</b> lyase <b>Chain:</b> B: <b>PDB Molecule:</b> 3-hydroxyacyl-[acyl-carrier-protein] dehydratase fabz; <b>PDBTitle:</b> crystal structure of 3-hydroxyacyl-acp dehydratase (fabz) from <i>2 yersinia pestis</i> with glycerol bound
64	<a href="#">c2cf2L_</a>	Alignment	not modelled	97.4	15	<b>PDB header:</b> transferase <b>Chain:</b> L: <b>PDB Molecule:</b> fatty acid synthase, dh domain; <b>PDBTitle:</b> architecture of mammalian fatty acid synthase
65	<a href="#">c5wh9C_</a>	Alignment	not modelled	97.4	11	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> 4-hydroxybenzoyl-coa thioesterase; <b>PDBTitle:</b> structure of bh1999 gentisyl-coenzyme a thioesterase
66	<a href="#">d2o5ua1</a>	Alignment	not modelled	97.4	9	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
67	<a href="#">c5hmcA_</a>	Alignment	not modelled	97.4	22	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> azi13; <b>PDBTitle:</b> crystal structure of <i>s. sahachiroi</i> azig complexed with 5-methyl2 naphthoic acid
68	<a href="#">c5lqID_</a>	Alignment	not modelled	97.3	16	<b>PDB header:</b> hydrolase <b>Chain:</b> D: <b>PDB Molecule:</b> 4-hydroxybenzoyl-coa thioesterase; <b>PDBTitle:</b> high resolution crystal structure of the 4-hydroxybenzoyl coenzyme-a2 thioesterase from <i>staphylococcus aureus</i>
69	<a href="#">c3hduB_</a>	Alignment	not modelled	97.3	17	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> putative thioesterase; <b>PDBTitle:</b> crystal structure of a putative thioesterase (syn_01977) from <i>2 syntrophus aciditrophicus sb</i> at 2.50 a resolution
70	<a href="#">c4i4jE_</a>	Alignment	not modelled	97.3	11	<b>PDB header:</b> hydrolase <b>Chain:</b> E: <b>PDB Molecule:</b> acp-polyene thioesterase; <b>PDBTitle:</b> the structure of sgce10, the acp-polyene thioesterase involved in c-2 1027 biosynthesis
71	<a href="#">d1wlua1</a>	Alignment	not modelled	97.3	17	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
72	<a href="#">c4i83A_</a>	Alignment	not modelled	97.3	15	<b>PDB header:</b> lyase <b>Chain:</b> A: <b>PDB Molecule:</b> 3-hydroxyacyl-[acyl-carrier-protein] dehydratase fabz; <b>PDBTitle:</b> crystal structure of (3r)-hydroxymyristoyl-acp dehydratase from <i>2 heisseria meningitidis fam18</i>
73	<a href="#">c3hm0C_</a>	Alignment	not modelled	97.3	13	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> probable thioesterase; <b>PDBTitle:</b> crystal structure of probable thioesterase from <i>bartonella henselae</i>
74	<a href="#">d2nuja1</a>	Alignment	not modelled	97.3	13	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
75	<a href="#">c2qwzB_</a>	Alignment	not modelled	97.3	14	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> phenylacetic acid degradation-related protein; <b>PDBTitle:</b> crystal structure of a putative thioesterase (tm1040_1390) from <i>2 silicibacter sp. tm1040</i> at 2.15 a resolution
76	<a href="#">d2gf6a1</a>	Alignment	not modelled	97.2	23	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
77	<a href="#">c4gakA_</a>	Alignment	not modelled	97.2	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> acyl-acp thioesterase; <b>PDBTitle:</b> crystal structure of acyl-acp thioesterase from <i>spirosona linguale</i>
78	<a href="#">c2pimA_</a>	Alignment	not modelled	97.2	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> phenylacetic acid degradation-related protein; <b>PDBTitle:</b> crystal structure of a putative thioesterase, phenylacetic

						acid2 degradation-related protein (reut_b4779) from ralstonia eutropha3 jmp134 at 2.20 a resolution
79	<a href="#">d2hja1</a>	Alignment	not modelled	97.2	13	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
80	<a href="#">d1nja1</a>	Alignment	not modelled	97.2	16	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
81	<a href="#">c3nwd</a>	Alignment	not modelled	97.2	18	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> D: <b>PDB Molecule:</b> bh2602 protein; <b>PDBTitle:</b> crystal structure of bh2602 protein from bacillus halodurans with coa,2 northeast structural genomics consortium target bhr199
82	<a href="#">c5v10B</a>	Alignment	not modelled	97.2	13	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of the putative tol-pal system-associated acyl-coa2 thioesterase from pseudomonas aeruginosa pao1
83	<a href="#">c2essa</a>	Alignment	not modelled	97.2	8	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> acyl-ACP thioesterase; <b>PDBTitle:</b> crystal structure of an acyl-ACP thioesterase (np_810988.1) from2 bacteroides thetaiotaomicron vpi-5482 at 1.90 a resolution
84	<a href="#">c3qoa</a>	Alignment	not modelled	97.1	13	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of hot-dog-like taci_0573 protein from2 thermaerovibrio acidaminovorans
85	<a href="#">d2hboa1</a>	Alignment	not modelled	97.1	9	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
86	<a href="#">d2oiwa1</a>	Alignment	not modelled	97.1	8	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
87	<a href="#">c3e8pA</a>	Alignment	not modelled	97.1	20	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of the protein q8e9m7 from shewanella oneidensis2 related to thioesterase superfamily. northeast structural genomics3 consortium target sor246.
88	<a href="#">c5vpjB</a>	Alignment	not modelled	97.1	14	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> thioesterase; <b>PDBTitle:</b> the crystal structure of a thioesterase from actinomadura2 verrucosospora.
89	<a href="#">c2pzhC</a>	Alignment	not modelled	97.1	17	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> hypothetical protein hp_0496; <b>PDBTitle:</b> ybgc thioesterase (hp0496) from helicobacter pylori
90	<a href="#">c4qdbF</a>	Alignment	not modelled	97.1	13	<b>PDB header:</b> hydrolase <b>Chain:</b> F: <b>PDB Molecule:</b> thioesterase pa1618; <b>PDBTitle:</b> crystal structure of mutant thioesterase pa1618 (q49a) from2 pseudomonas aeruginosa
91	<a href="#">d1q4ua</a>	Alignment	not modelled	97.1	15	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
92	<a href="#">c3e29C</a>	Alignment	not modelled	97.0	12	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> C: <b>PDB Molecule:</b> uncharacterized protein q7we92_borbr; <b>PDBTitle:</b> x-ray structure of the protein q7we92_borbr from thioesterase2 superfamily. northeast structural genomics consortium target bor214a.
93	<a href="#">c4k02A</a>	Alignment	not modelled	97.0	16	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> 1,4-dihydroxy-2-naphthoyl-coa thioesterase; <b>PDBTitle:</b> crystal structure of atdhnat1, a 1,4-dihydroxy-2-naphthoyl-coa2 thioesterase from arabidopsis thaliana
94	<a href="#">d2oafa1</a>	Alignment	not modelled	97.0	15	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
95	<a href="#">c4b8uD</a>	Alignment	not modelled	97.0	11	<b>PDB header:</b> lyase <b>Chain:</b> D: <b>PDB Molecule:</b> 3-hydroxydecanoyl-[acyl-carrier-protein] dehydratase; <b>PDBTitle:</b> crystal structure of 3-hydroxydecanoyl-acyl carrier protein2 dehydratase (faba) from pseudomonas aeruginosa in complex with3 n-isobutyl-2-(5-(2-thienyl)-1,2-oxazol-3-yl)-methoxyacetamide
96	<a href="#">c2w3xE</a>	Alignment	not modelled	97.0	14	<b>PDB header:</b> hydrolase <b>Chain:</b> E: <b>PDB Molecule:</b> cale7; <b>PDBTitle:</b> crystal structure of a bifunctional hotdog fold2 thioesterase in enediyne biosynthesis, cale7
97	<a href="#">d1z54a1</a>	Alignment	not modelled	97.0	21	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
98	<a href="#">c3bnvD</a>	Alignment	not modelled	97.0	15	<b>PDB header:</b> unknown function <b>Chain:</b> D: <b>PDB Molecule:</b> cj0977; <b>PDBTitle:</b> crystal structure of cj0977, a sigma28-regulated virulence protein2 from campylobacter jejuni.
99	<a href="#">c2ownA</a>	Alignment	not modelled	97.0	7	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> putative oleoyl-[acyl-carrier protein] thioesterase; <b>PDBTitle:</b> crystal structure of oleoyl thioesterase (putative) (np_784467.1) from2 lactobacillus plantarum at 2.00 a resolution
100	<a href="#">d2cyea1</a>	Alignment	not modelled	97.0	20	<b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
101	<a href="#">c2xfiB</a>	Alignment	not modelled	97.0	17	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> dyne7; <b>PDBTitle:</b> induced-fit and allosteric effects upon polyene binding2 revealed by crystal structures of the dynemicin3 thioesterase
102	<a href="#">c3r87A</a>	Alignment	not modelled	96.9	5	<b>PDB header:</b> unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> putative uncharacterized protein; <b>PDBTitle:</b> crystal structure of orf6 protein from photobacterium



				profundum	
103	<a href="#">d2fuja1</a>	Alignment	not modelled	96.9	11 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
104	<a href="#">d1vh5a_</a>	Alignment	not modelled	96.9	10 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
105	<a href="#">c2egiE_</a>	Alignment	not modelled	96.9	10 <b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> E: <b>PDB Molecule:</b> hypothetical protein aq_1494; <b>PDBTitle:</b> crystal structure of a hypothetical protein(aq1494) from aquifex2 aeolicus
106	<a href="#">d2hx5a1</a>	Alignment	not modelled	96.8	9 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
107	<a href="#">c4m20D_</a>	Alignment	not modelled	96.8	13 <b>PDB header:</b> hydrolase <b>Chain:</b> D: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of hypothetical protein sav0944 from staphylococcus2 aureus subsp. aureus mu50
108	<a href="#">c2prxB_</a>	Alignment	not modelled	96.8	13 <b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> thioesterase superfamily protein; <b>PDBTitle:</b> crystal structure of thioesterase superfamily protein (zp_00837258.1)2 from shewanella loihica pv-4 at 1.65 a resolution
109	<a href="#">c6qsrB_</a>	Alignment	not modelled	96.7	8 <b>PDB header:</b> biosynthetic protein <b>Chain:</b> B: <b>PDB Molecule:</b> beta-hydroxyacyl-(acyl-carrier-protein) dehydratase <b>PDBTitle:</b> the dehydratase heterocomplex apei:p from xenorhabdus doucetiae
110	<a href="#">d1vh9a_</a>	Alignment	not modelled	96.7	13 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
111	<a href="#">c3esiD_</a>	Alignment	not modelled	96.7	9 <b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> D: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of an uncharacterized protein from2 erwinia carotovora subsp. atroseptica. northeast3 structural genomics target ewr179
112	<a href="#">d2alia1</a>	Alignment	not modelled	96.7	10 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
113	<a href="#">c2aliaA_</a>	Alignment	not modelled	96.7	10 <b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> hypothetical protein pa2801; <b>PDBTitle:</b> structure of protein of unknown function pa2801 from pseudomonas2 aeruginosa, putative thioesterase
114	<a href="#">d1lo7a_</a>	Alignment	not modelled	96.6	20 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> 4HBT-like
115	<a href="#">c3lwgB_</a>	Alignment	not modelled	96.6	13 <b>PDB header:</b> unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> hp0420 homologue; <b>PDBTitle:</b> crystal structure of hp0420-homologue c46a from helicobacter felis
116	<a href="#">c5byuA_</a>	Alignment	not modelled	96.6	7 <b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> thioesterase; <b>PDBTitle:</b> crystal structure of unnamed thioesterase ipg2867 from legionella2 pneumophila
117	<a href="#">c5x04B_</a>	Alignment	not modelled	96.6	12 <b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> dodecanoyl-[acyl-carrier-protein] hydrolase, chloroplastic; <b>PDBTitle:</b> 12:0-acyl thioesterase from umbellularia californica
118	<a href="#">d1sc0a_</a>	Alignment	not modelled	96.6	25 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
119	<a href="#">d2f41a1</a>	Alignment	not modelled	96.6	14 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like
120	<a href="#">d1t82a_</a>	Alignment	not modelled	96.6	14 <b>Fold:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Superfamily:</b> Thioesterase/thiol ester dehydrase-isomerase <b>Family:</b> Paal/Ydil-like