























Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0801 (-) _894634_894981
Date	Fri Jul 26 01:50:38 BST 2019
Unique Job ID	bd24e9ce82b4ad41

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3g12A_	 Alignment		99.9	14	PDB header: lyase Chain: A: PDB Molecule: putative lactoylglutathione lyase; PDBTitle: crystal structure of a putative lactoylglutathione lyase from2 bdellovibrio bacteriovorus
2	c2r6uB_	 Alignment		99.8	11	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of gene product rha04853 from rhodococcus sp. rha1
3	c5umwA_	 Alignment		99.8	19	PDB header: tiancimycin-binding protein Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of tnms2, an antibiotic binding protein from2 streptomyces sp. cb03234
4	c4g6xA_	 Alignment		99.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of glyoxalase/bleomycin resistance protein from2 catenulispora acidiphila.
5	c4lqbA_	 Alignment		99.8	29	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein kfla3161
6	d2i7ra1	 Alignment		99.8	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
7	d1qjpa_	 Alignment		99.8	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
8	c3zi1A_	 Alignment		99.8	19	PDB header: isomerase Chain: A: PDB Molecule: glyoxalase domain-containing protein 4; PDBTitle: crystal structure of human glyoxalase domain-containing protein 42 (glod4)
9	c4hc5A_	 Alignment		99.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of member of glyoxalase/bleomycin resistance2 protein/dioxygenase superfamily from sphaerobacter thermophilus dsm3 20745
10	c3rheA_	 Alignment		99.8	19	PDB header: oxidoreductase Chain: A: PDB Molecule: nad-dependent benzaldehyde dehydrogenase; PDBTitle: the crystal structure of nad-dependent benzaldehyde dehydrogenase from2 legionella pneumophila
11	c3huhA_	 Alignment		99.8	13	PDB header: viral protein Chain: A: PDB Molecule: virulence protein stm3117; PDBTitle: the structure of biphenyl-2,3-diol 1,2-dioxygenase iii-related protein2 from salmonella typhimurium

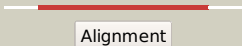

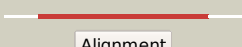
12	c5cb9A_	Alignment		99.8	13	PDB header: lyase Chain: A; PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of c-as lyase with mercaptoethonal
13	c4gymB_	Alignment		99.8	11	PDB header: oxidoreductase Chain: B; PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of glyoxalase/bleomycin resistance2 protein/dioxygenase from conexibacter woesei dsm 14684
14	c6a4zA_	Alignment		99.8	13	PDB header: biosynthetic protein Chain: A; PDB Molecule: chap protein; PDBTitle: oxidase chap
15	c4mtsA_	Alignment		99.8	15	PDB header: lyase Chain: A; PDB Molecule: lactoylglutathione lyase; PDBTitle: ni- and zn-bound gloa2 at high resolution
16	d1f9za_	Alignment		99.8	7	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
17	c2kjaz_	Alignment		99.8	15	PDB header: unknown function Chain: A; PDB Molecule: atc0852; PDBTitle: solution nmr structure of protein atc0852 from agrobacterium2 tumefaciens. northeast structural genomics consortium (nesg) target3 att2.
18	d1nkia_	Alignment		99.8	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
19	c6bu2A_	Alignment		99.8	15	PDB header: isomerase Chain: A; PDB Molecule: glyoxalase; PDBTitle: crystal structure of methylmalonyl-coa epimerase from mycobacterium2 tuberculosis
20	c3rmuD_	Alignment		99.8	15	PDB header: isomerase Chain: D; PDB Molecule: methylmalonyl-coa epimerase, mitochondrial; PDBTitle: crystal structure of human methylmalonyl-coa epimerase, mcee
21	c4n04B_	Alignment	not modelled	99.8	17	PDB header: oxidoreductase Chain: B; PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: the crystal structure of glyoxalase / bleomycin resistance protein2 from catenulispora acidiphila dsm 44928
22	c4jh1B_	Alignment	not modelled	99.8	11	PDB header: transferase Chain: B; PDB Molecule: metallothiol transferase fosb; PDBTitle: crystal structure of fosb from bacillus cereus with zinc and sulfate2 at 1.55 a resolution -sad phasing
23	c3pkwA_	Alignment	not modelled	99.8	9	PDB header: lyase Chain: A; PDB Molecule: toxoflavin lyase (tfla); PDBTitle: crystal structure of toxoflavin lyase (tfla) bound to mn(ii)
24	c3bqxA_	Alignment	not modelled	99.8	18	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: glyoxalase-related enzyme; PDBTitle: high resolution crystal structure of a glyoxalase-related enzyme from2 fulvmarina pelagi
25	c1zswA_	Alignment	not modelled	99.8	15	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: glyoxalase family protein; PDBTitle: crystal structure of bacillus cereus metallo protein from glyoxalase2 family
26	c3r6aB_	Alignment	not modelled	99.8	11	PDB header: isomerase, lyase Chain: B; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of an uncharacterized protein (hypothetical protein2 mm_3218) from methanosarcina maezi.
27	c3ghjA_	Alignment	not modelled	99.8	12	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: putative integron gene cassette protein; PDBTitle: crystal structure from the mobile metagenome of halifax harbour sewage2 outfall: integron cassette protein hfx_cass4
28	c5ujpB_	Alignment	not modelled	99.8	19	PDB header: lyase Chain: B; PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: the crystal structure of a glyoxalase/bleomycin resistance

						protein2 from streptomyces sp. cb03234
29	c2qh0A_	Alignment	not modelled	99.8	11	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of a glyoxalase from clostridium acetobutylicum
30	c4nb2B_	Alignment	not modelled	99.8	10	PDB header: transferase Chain: B: PDB Molecule: metallothiol transferase fosb; PDBTitle: crystal structure of fosb from staphylococcus aureus at 1.89 angstrom2 resolution - apo structure
31	c3oajA_	Alignment	not modelled	99.7	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative ring-cleaving dioxygenase mhqo; PDBTitle: crystal structure of putative dioxygenase from bacillus subtilis2 subsp. subtilis str. 168
32	c6a4xA_	Alignment	not modelled	99.7	14	PDB header: biosynthetic protein Chain: A: PDB Molecule: bleomycin resistance protein; PDBTitle: oxidase chap-h2
33	d1mpya2	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
34	c4pavA_	Alignment	not modelled	99.7	15	PDB header: unknown function Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: structure of hypothetical protein sa1046 from s. aureus.
35	c3ct8A_	Alignment	not modelled	99.7	11	PDB header: lyase Chain: A: PDB Molecule: putative glyoxalase; PDBTitle: crystal structure of a putative glyoxalase (np_243026.1) from bacillus2 halodurans at 2.10 a resolution
36	c4qb5A_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of a glyoxalase/bleomycin resistance protein from2 albidiferax ferrireducens t118
37	c3sk1C_	Alignment	not modelled	99.7	12	PDB header: griseoluteate-binding protein Chain: C: PDB Molecule: ehpr; PDBTitle: crystal structure of phenazine resistance protein ehpr from2 enterobacter agglomerans (erwinia herbicola, pantoaea agglomerans)3 eh1087, apo form
38	d1jc4a_	Alignment	not modelled	99.7	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Methylmalonyl-CoA epimerase
39	c6iptB_	Alignment	not modelled	99.7	16	PDB header: transferase Chain: B: PDB Molecule: all3014 protein; PDBTitle: crystal structure of a fosfomycin and bleomycin resistant protein from2 anabaena/nostoc cyanobacterium at 1.70 a resolution
40	c3zw5A_	Alignment	not modelled	99.7	9	PDB header: lyase Chain: A: PDB Molecule: glyoxalase domain-containing protein 5; PDBTitle: crystal structure of the human glyoxalase domain-containing protein 5
41	d1flua1	Alignment	not modelled	99.7	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
42	c3ey7B_	Alignment	not modelled	99.7	11	PDB header: oxidoreductase Chain: B: PDB Molecule: biphenyl-2,3-diol 1,2-dioxygenase iii-related PDBTitle: structure from the mobile metagenome of v. cholerae.2 integron cassette protein vch_cass1
43	d1npba_	Alignment	not modelled	99.7	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
44	d1lqta1	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
45	d2c21a1	Alignment	not modelled	99.7	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
46	c4rt5A_	Alignment	not modelled	99.7	17	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: the crystal structure of a glyoxalase/bleomycin resistance2 protein/dioxygenase protein from planctomyces limnophilus dsm 3776
47	d1mpya1	Alignment	not modelled	99.7	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
48	d1flxa1	Alignment	not modelled	99.7	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
49	c5znhA_	Alignment	not modelled	99.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: catechol 2,3-dioxygenase, extradiol protein; PDBTitle: catechol 2,3-dioxygenase with 4-methyl catechol from diaphorobacter sp2 ds2
50	c5uhjA_	Alignment	not modelled	99.7	16	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: the crystal structure of a natural product biosynthetic enzyme from2 streptomyces sp. cb03234

51	d1zswa2	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: BC1024-like
52	c3oa4A	Alignment	not modelled	99.7	11	PDB header: lyase Chain: A: PDB Molecule: glyoxalase; PDBTitle: crystal structure of hypothetical protein bh1468 from bacillus2 halodurans c-125
53	c3r4qB	Alignment	not modelled	99.7	16	PDB header: lyase Chain: B: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of lactoylglutathione lyase from agrobacterium2 tumefaciens
54	c4nvsB	Alignment	not modelled	99.7	16	PDB header: unknown function Chain: B: PDB Molecule: putative enzyme, glyoxalase family; PDBTitle: crystal structure of the q18cp6_clod6 protein from glyoxalase family.2 northeast structural genomics consortium target cfr3
55	c3rriB	Alignment	not modelled	99.7	12	PDB header: metal binding protein Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of glyoxalase/bleomycin resistance2 protein/dioxygenase from alicyclobacillus acidocaldarius
56	c2p7pB	Alignment	not modelled	99.7	12	PDB header: metal binding protein, hydrolase Chain: B: PDB Molecule: glyoxalase family protein; PDBTitle: crystal structure of genomically encoded fosfomycin resistance2 protein, fosx, from listeria monocytogenes complexed with mn(ii) and3 sulfate ion
57	c2qqzB	Alignment	not modelled	99.7	13	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: glyoxalase family protein, putative; PDBTitle: crystal structure of putative glyoxalase family protein from bacillus2 anthracis
58	c2p25A	Alignment	not modelled	99.7	12	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: the crystal structure of the glyoxalase family protein from2 enterococcus faecalis
59	d1klla	Alignment	not modelled	99.7	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
60	d1xqaa	Alignment	not modelled	99.7	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
61	d1kw3b1	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
62	d1q0oa2	Alignment	not modelled	99.7	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
63	d1lqta2	Alignment	not modelled	99.7	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
64	c6a52A	Alignment	not modelled	99.7	14	PDB header: biosynthetic protein Chain: A: PDB Molecule: dioxidase chap-h1; PDBTitle: oxidase chap-h1
65	c3bt3B	Alignment	not modelled	99.7	10	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: glyoxalase-related enzyme, arac type; PDBTitle: crystal structure of a glyoxalase-related enzyme from clostridium2 phytofermentans
66	d1r9ca	Alignment	not modelled	99.7	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
67	c3lm4C	Alignment	not modelled	99.7	7	PDB header: oxidoreductase Chain: C: PDB Molecule: catechol 2,3-dioxygenase; PDBTitle: crystal structure of 2,3-dihydroxy biphenyl dioxygenase from2 rhodococcus sp. (strain rha1)
68	d1kw3b2	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
69	c4huzA	Alignment	not modelled	99.7	13	PDB header: oxidoreductase Chain: A: PDB Molecule: 2,6-dichloro-p-hydroquinone 1,2-dioxygenase; PDBTitle: 2,6-dichloro-p-hydroquinone 1,2-dioxygenase
70	c6on3C	Alignment	not modelled	99.7	18	PDB header: oxidoreductase Chain: C: PDB Molecule: l-dopa extradiol dioxygenase; PDBTitle: a substrate bound structure of l-dopa dioxygenase from streptomyces2 sclerotialus
71	c2rbbB	Alignment	not modelled	99.7	21	PDB header: oxidoreductase Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of a glyoxalase/bleomycin resistance2 protein/dioxygenase family enzyme from burkholderia phytofirmans psjn
72	c4mymA	Alignment	not modelled	99.7	11	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of a glyoxalase/ bleomycin resistance protein/2 dioxygenase from nocardioides PDB header: oxidoreductase

73	c2ei2A_	Alignment	not modelled	99.7	10	Chain: A: PDB Molecule: 1,2-dihydroxynaphthalene dioxygenase; PDBTitle: crystal structure analysis of the 1,2-dihydroxynaphthalene dioxygenase2 from pseudomonas sp. stain c18
74	d2pjsa1	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
75	c5vb0E_	Alignment	not modelled	99.7	15	PDB header: transferase Chain: E: PDB Molecule: fosfomycin resistance protein fosa3; PDBTitle: crystal structure of fosfomycin resistance protein fosa3
76	c3gm5A_	Alignment	not modelled	99.7	14	PDB header: isomerase Chain: A: PDB Molecule: lactoylglutathione lyase and related lyases; PDBTitle: crystal structure of a putative methylmalonyl-coenzyme a epimerase2 from thermoanaerobacter tengcongensis at 2.0 a resolution
77	c3uh9B_	Alignment	not modelled	99.7	14	PDB header: transferase Chain: B: PDB Molecule: metallothiol transferase fospb 2; PDBTitle: crystal structure of metallothiol transferase fospb 2 from bacillus2 anthracis str. ames
78	c3e5dA_	Alignment	not modelled	99.7	23	PDB header: lyase Chain: A: PDB Molecule: putative glyoxalase i; PDBTitle: crystal structure of a putative glyoxalase i (lmof2365_0426) from2 listeria monocytogenes str. 4b f2365 at 2.70 a resolution
79	d1twua_	Alignment	not modelled	99.7	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein YycE
80	c3l7tB_	Alignment	not modelled	99.7	18	PDB header: metal binding protein Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of smu.1112c
81	c3m2oB_	Alignment	not modelled	99.7	20	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein; PDBTitle: crystal structure of a putative glyoxalase/bleomycin resistance2 protein from rhodopseudomonas palustris cga009
82	c2zi8A_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: A: PDB Molecule: probable biphenyl-2,3-diol 1,2-dioxygenase bphc; PDBTitle: crystal structure of the hsaC extradiol dioxygenase from m.2 tuberculosis in complex with 3,4-dihydroxy-9,10-3 seconandrost-1,3,5(10)-triene-9,17-dione (dh5a)
83	c3b59A_	Alignment	not modelled	99.7	14	PDB header: lyase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of the mn(ii)-bound glyoxalase from novosphingobium2 aromaticivorans
84	c3vb0D_	Alignment	not modelled	99.7	10	PDB header: oxidoreductase Chain: D: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of 2,2',3-trihydroxybiphenyl 1,2-dioxygenase from2 dibenzofuran-degrading sphingomonas wittichii strain rw1
85	d1ss4a_	Alignment	not modelled	99.7	25	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein BC1747
86	c2rk9B_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: the crystal structure of a glyoxalase/bleomycin resistance2 protein/dioxygenase superfamily member from vibrio splendidus 12b01
87	c2wl9A_	Alignment	not modelled	99.7	13	PDB header: oxidoreductase Chain: A: PDB Molecule: catechol 2,3-dioxygenase; PDBTitle: crystal structure of catechol 2,3-dioxygenase
88	c3itwA_	Alignment	not modelled	99.7	20	PDB header: peptide binding protein Chain: A: PDB Molecule: protein tiox; PDBTitle: crystal structure of tiox from micromonospora sp. m11
89	c1mpyD_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: D: PDB Molecule: catechol 2,3-dioxygenase; PDBTitle: structure of catechol 2,3-dioxygenase (metapyrocatechase)2 from pseudomonas putida mt-2
90	c1knfA_	Alignment	not modelled	99.7	13	PDB header: oxidoreductase Chain: A: PDB Molecule: 2,3-dihydroxybiphenyl 1,2-dioxygenase; PDBTitle: crystal structure of 2,3-dihydroxybiphenyl 1,2-dioxygenase complexed2 with 3-methyl catechol under anaerobic condition
91	c3ecjC_	Alignment	not modelled	99.7	12	PDB header: oxidoreductase Chain: C: PDB Molecule: protein (homoprotocatechuate 2,3-dioxygenase); PDBTitle: structure of e323l mutant of homoprotocatechuate 2,3-dioxygenase from2 brevibacterium fuscum at 1.65a resolution
92	c1flub_	Alignment	not modelled	99.7	12	PDB header: oxidoreductase Chain: B: PDB Molecule: homoprotocatechuate 2,3-dioxygenase; PDBTitle: crystal structure of homoprotocatechuate 2,3-dioxygenase from2 arthrobacter globiformis (native, low temperature)
93	c1kw3B_	Alignment	not modelled	99.6	15	PDB header: oxidoreductase Chain: B: PDB Molecule: 2,3-dihydroxybiphenyl dioxygenase; PDBTitle: crystal structure of 2,3-dihydroxybiphenyl dioxygenase (bphc) at 1.452 a resolution
94	c3kolA_	Alignment	not modelled	99.6	20	PDB header: metal binding protein Chain: A: PDB Molecule: glyoxalase/bleomycin resistance PDBTitle: crystal structure of a glyoxalase/dioxygenase from nostoc2 punctiforme PDB header: lyase

95	c4z04A_	Alignment	not modelled	99.6	15	Chain: A: PDB Molecule: glyoxalase/bleomycin resistance/dioxygenase superfamily PDBTitle: crystal structure of a probable lactoylglutathione lyase from brucella2 melitensis in complex with glutathione
96	c2rk0B_	Alignment	not modelled	99.6	20	PDB header: oxidoreductase Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase domain; PDBTitle: crystal structure of glyoxylase/bleomycin resistance2 protein/dioxygenase domain from frankia sp. ean1pec
97	c3hpyD_	Alignment	not modelled	99.6	10	PDB header: oxidoreductase Chain: D: PDB Molecule: catechol 2,3-dioxygenase; PDBTitle: crystal structure analysis of the 2,3-dioxygenase lapb from2 pseudomonas in the complex with 4-methylcatechol
98	d1zswa1	Alignment	not modelled	99.6	10	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: BC1024-like
99	c2qntA_	Alignment	not modelled	99.6	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein atu1872; PDBTitle: crystal structure of protein of unknown function from agrobacterium2 tumefaciens str. c58
100	c2zw7A_	Alignment	not modelled	99.6	22	PDB header: transferase Chain: A: PDB Molecule: bleomycin acetyltransferase; PDBTitle: crystal structure of bleomycin n-acetyltransferase complexed2 with bleomycin a2 and coenzyme a
101	d1jifa_	Alignment	not modelled	99.6	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
102	d1flua2	Alignment	not modelled	99.6	9	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
103	d1sqia1	Alignment	not modelled	99.6	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
104	d1xy7a_	Alignment	not modelled	99.6	20	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein At5g48480
105	c2q48A_	Alignment	not modelled	99.6	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: protein at5g48480; PDBTitle: ensemble refinement of the protein crystal structure of gene product2 from arabidopsis thaliana at5g48480
106	d1sp8a1	Alignment	not modelled	99.6	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
107	d1xrka_	Alignment	not modelled	99.6	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
108	d1flxa2	Alignment	not modelled	99.6	7	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
109	d1ecsa_	Alignment	not modelled	99.6	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
110	c4ro6A_	Alignment	not modelled	99.6	11	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of glyoxalase i from zea mays
111	c1sp8A_	Alignment	not modelled	99.5	18	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: 4-hydroxyphenylpyruvate dioxygenase
112	d1t47a1	Alignment	not modelled	99.5	18	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
113	c3fcdB_	Alignment	not modelled	99.5	9	PDB header: lyase Chain: B: PDB Molecule: lyase; PDBTitle: crystal structure of a putative glyoxalase from an2 environmental bacteria
114	d1sqda1	Alignment	not modelled	99.5	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
115	d1sp9a_	Alignment	not modelled	99.5	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
116	c1cjcC_	Alignment	not modelled	99.5	15	PDB header: oxidoreductase Chain: C: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: crystal structure of pseudomonas fluorescens hppd
117	c1t47A_	Alignment	not modelled	99.5	17	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: structure of fe2-hppd bound to ntc

118	c1tfzA_	 Alignment	not modelled	99.4	15	<p>PDB header:oxidoreductase Chain: A: PDB Molecule:4-hydroxyphenylpyruvate dioxygenase; PDBTitle: structural basis for herbicidal inhibitor selectivity revealed by2 comparison of crystal structures of plant and mammalian 4-3 hydroxyphenylpyruvate dioxygenases</p>
119	c1sqiA_	 Alignment	not modelled	99.4	16	<p>PDB header:biosynthetic protein Chain: A: PDB Molecule:4-hydroxyphenylpyruvic acid dioxygenase; PDBTitle: structural basis for inhibitor selectivity revealed by2 crystal structures of plant and mammalian 4-3 hydroxyphenylpyruvate dioxygenases</p>
120	d1cjxa1	 Alignment	not modelled	99.4	16	<p>Fold:Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily:Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family:Extradiol dioxygenases</p>