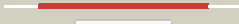


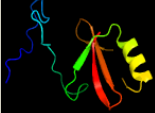
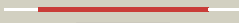








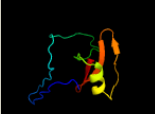










Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0689c_(-)_789160_789414
Date	Fri Jul 26 01:50:25 BST 2019
Unique Job ID	75b386d5dbfd5c51

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4lqbA_	 Alignment		99.3	19	PDB header: unknown function Chain: A; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein kfla3161
2	c2r6uB_	 Alignment		98.7	14	PDB header: structural genomics, unknown function Chain: B; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of gene product rha04853 from rhodococcus sp. rha1
3	c3g12A_	 Alignment		98.6	11	PDB header: lyase Chain: A; PDB Molecule: putative lactoylglutathione lyase; PDBTitle: crystal structure of a putative lactoylglutathione lyase from2 bdellovibrio bacteriovorus
4	c3zi1A_	 Alignment		98.3	10	PDB header: isomerase Chain: A; PDB Molecule: glyoxalase domain-containing protein 4; PDBTitle: crystal structure of human glyoxalase domain-containing protein 42 (glod4)
5	c4g6xA_	 Alignment		98.2	26	PDB header: oxidoreductase Chain: A; PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of glyoxalase/bleomycin resistance protein from2 catenulispora acidiphila.
6	c3itwA_	 Alignment		98.1	19	PDB header: peptide binding protein Chain: A; PDB Molecule: protein tiox; PDBTitle: crystal structure of tiox from micromonospora sp. ml1
7	d2pjsa1	 Alignment		98.1	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
8	c5ujpB_	 Alignment		98.1	24	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
9	c2q48A_	 Alignment		98.1	19	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
10	d1xy7a_	 Alignment		98.1	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein At5g48480
11	c5umwA_	 Alignment		98.0	31	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

12	c3bt3B_	Alignment		97.9	18	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
13	c3r6aB_	Alignment		97.9	17	PDB header: isomerase, lyase Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of an uncharacterized protein (hypothetical protein2 mm_3218) from methanosarcina maezi.
14	c4n04B_	Alignment		97.9	19	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
15	c3m2oB_	Alignment		97.8	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
16	d2i7ra1	Alignment		97.6	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
17	d1u6la_	Alignment		97.5	9	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: 3-demethylubiquinone-9 3-methyltransferase
18	c5uhjA_	Alignment		97.5	13	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
19	c2zw7A_	Alignment		97.5	20	PDB header: transferase Chain: A: PDB Molecule: bleomycin acetyltransferase; PDBTitle: crystal structure of bleomycin n-acetyltransferase complexed2 with bleomycin a2 and coenzyme a
20	c3rheA_	Alignment		97.4	8	PDB header: oxidoreductase Chain: A: PDB Molecule: nad-dependent benzaldehyde dehydrogenase; PDBTitle: the crystal structure of nad-dependent benzaldehyde dehydrogenase from2 legionella pneumophila
21	d1nkia_	Alignment	not modelled	97.1	20	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
22	c4ro6A_	Alignment	not modelled	97.1	13	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of glyoxalase i from zea mays
23	d1eicsa_	Alignment	not modelled	97.1	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
24	d1u7ia_	Alignment	not modelled	97.0	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: 3-demethylubiquinone-9 3-methyltransferase
25	c4hc5A_	Alignment	not modelled	97.0	16	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
26	d1f9za_	Alignment	not modelled	96.9	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
27	c2qqzB_	Alignment	not modelled	96.9	14	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 PDB header: transferase Chain: A: PDB Molecule: phnb protein; PDBTitle: putative 3-demethylubiquinone-9 3-methyltransferase, phnb protein,2 from bacillus cereus.
28	c3omsA_	Alignment	not modelled	96.9	11	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
29	c2rk9B_	Alignment	not modelled	96.9	20	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
30	c4nvsB_	Alignment	not modelled	96.8	11	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
31	c3huhA_	Alignment	not modelled	96.8	20	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
32	d1qipa_	Alignment	not modelled	96.7	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
33	d1sp8a1	Alignment	not modelled	96.7	18	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: ni- and zn-bound gloa2 at high resolution
34	c4mtsA_	Alignment	not modelled	96.5	23	PDB header: lyase Chain: B: PDB Molecule: lyase; PDBTitle: crystal structure of a putative glyoxalase from an2 environmental bacteria
35	c3fcdB_	Alignment	not modelled	96.5	14	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
36	c4gymB_	Alignment	not modelled	96.5	15	PDB header: metal binding protein Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of smu.1112c
37	c3i7tB_	Alignment	not modelled	96.5	16	PDB header: unknown function Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: structure of hypothetical protein sa1046 from s. aureus.
38	c4pavA_	Alignment	not modelled	96.4	18	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: the crystal structure of the glyoxalase family protein from2 enterococcus faecalis
39	c2p25A_	Alignment	not modelled	96.3	23	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
40	c2qntA_	Alignment	not modelled	96.2	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
41	d1t47a1	Alignment	not modelled	96.1	24	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein BC1747
42	d1ss4a_	Alignment	not modelled	96.0	18	PDB header: isomerase Chain: D: PDB Molecule: methylmalonyl-coa epimerase, mitochondrial; PDBTitle: crystal structure of human methylmalonyl-coa epimerase, mcee
43	c3rmuD_	Alignment	not modelled	95.9	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
44	d1sqia1	Alignment	not modelled	95.9	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
45	d1cxa1	Alignment	not modelled	95.9	18	PDB header: zorbamycin binding protein Chain: A: PDB Molecule: zbm binding protein; PDBTitle: crystal structure of zbma, the zorbamycin binding protein from2 streptomyces flavoviridis
46	c4iagA_	Alignment	not modelled	95.9	25	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
47	c4nb2B_	Alignment	not modelled	95.7	11	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
48	c3ghjA_	Alignment	not modelled	95.7	14	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
49	c4jh1B_	Alignment	not modelled	95.6	12	PDB header: isomerase Chain: A: PDB Molecule: glyoxalase; PDBTitle: crystal structure of methylmalonyl-coa epimerase from mycobacterium2 tuberculosis
50	c6bu2A_	Alignment	not modelled	95.5	21	

51	d1jc4a	Alignment	not modelled	95.5	23	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Methylmalonyl-CoA epimerase
52	d2c21a1	Alignment	not modelled	95.4	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
53	c2kzjA	Alignment	not modelled	95.3	19	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.
54	c3bqxA	Alignment	not modelled	95.2	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 fulvimarina pelagi
55	c1cjcC	Alignment	not modelled	95.2	18	PDB header: oxidoreductase Chain: C: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: crystal structure of pseudomonas fluorescens hppd
56	d1sqda1	Alignment	not modelled	95.1	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
57	c3b59A	Alignment	not modelled	95.0	16	PDB header: lyase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of the mn(ii)-bound glyoxalase from novosphingobium2 aromaticivorans
58	c3ey7B	Alignment	not modelled	94.8	14	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
59	c5znhA	Alignment	not modelled	94.7	14	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
60	d1klla	Alignment	not modelled	94.5	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
61	c3oa4A	Alignment	not modelled	94.4	13	PDB header: lyase Chain: A: PDB Molecule: glyoxalase; PDBTitle: crystal structure of hypothetical protein bh1468 from bacillus2 halodurans c-125
62	c2wl9A	Alignment	not modelled	94.3	12	PDB header: oxidoreductase Chain: A: PDB Molecule: catechol 2,3-dioxygenase; PDBTitle: crystal structure of catechol 2,3-dioxygenase
63	c3l20A	Alignment	not modelled	94.2	15	PDB header: unknown function Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of a hypothetical protein from staphylococcus aureus
64	c3zw5A	Alignment	not modelled	94.2	16	PDB header: lyase Chain: A: PDB Molecule: glyoxalase domain-containing protein 5; PDBTitle: crystal structure of the human glyoxalase domain-containing protein 5
65	c2ei2A	Alignment	not modelled	94.1	15	PDB header: oxidoreductase Chain: A: PDB Molecule: 1,2-dihydroxynaphthalene dioxygenase; PDBTitle: crystal structure analysis of the 1,2-dihydroxynaphthalene dioxygenase2 from pseudomonas sp. stain c18
66	d1flua1	Alignment	not modelled	93.6	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
67	d1npba	Alignment	not modelled	93.5	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
68	d1flxa1	Alignment	not modelled	93.4	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
69	c1lmpyD	Alignment	not modelled	93.3	7	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
70	c4rt5A	Alignment	not modelled	93.3	10	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
71	c1t47A	Alignment	not modelled	93.3	22	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: structure of fe2-hppd bound to ntbc
72	d1sp9a	Alignment	not modelled	93.3	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
73	c3oaiA	Alignment	not modelled	93.1	11	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative ring-cleaving dioxygenase mhqo;

73	c3vqjA	Alignment	not modelled	93.1	11	PDBTitle: crystal structure of putative dioxygenase from bacillus subtilis2 subsp. subtilis str. 168
74	d1kw3b1	Alignment	not modelled	93.1	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
75	c3gm5A	Alignment	not modelled	93.1	13	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
76	d1twua	Alignment	not modelled	92.8	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein YycE
77	c2p7pB	Alignment	not modelled	92.8	14	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
78	c4qb5A	Alignment	not modelled	92.6	26	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
79	c3hpyD	Alignment	not modelled	92.6	12	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
80	c1kw3B	Alignment	not modelled	92.5	11	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
81	c4mymA	Alignment	not modelled	92.5	17	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
82	c1fluB	Alignment	not modelled	92.2	17	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)
83	c2rk0B	Alignment	not modelled	92.1	18	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
84	c3vb0D	Alignment	not modelled	91.9	17	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	c3ecjC	Alignment	not modelled	91.9	16	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
86	d1lqta1	Alignment	not modelled	91.7	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
87	c2rbbB	Alignment	not modelled	91.4	20	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
88	c3r4qB	Alignment	not modelled	90.9	16	PDB header: lyase Chain: B: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of lactoylglutathione lyase from agrobacterium2 tumefaciens
89	c1sp8A	Alignment	not modelled	90.8	18	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: 4-hydroxyphenylpyruvate dioxygenase
90	c2r5vA	Alignment	not modelled	90.8	24	PDB header: oxidoreductase Chain: A: PDB Molecule: pcza361.1; PDBTitle: hydroxymandelate synthase crystal structure
91	d1xqaa	Alignment	not modelled	90.6	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
92	d1mpya2	Alignment	not modelled	90.6	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
93	d1mpya1	Alignment	not modelled	90.5	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
94	c1knfA	Alignment	not modelled	90.3	10	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
95	c2zi8A_	Alignment	not modelled	90.2	13	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 (dhsa)
96	c1zswA_	Alignment	not modelled	90.1	9	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: crystal structure of bacillus cereus metallo protein from glyoxalase2 family
97	c2qh0A_	Alignment	not modelled	89.8	12	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of a glyoxalase from clostridium acetobutylicum
98	c3lm4C_	Alignment	not modelled	89.3	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)
99	c3ct8A_	Alignment	not modelled	89.0	10	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
100	c3sk1C_	Alignment	not modelled	88.9	11	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
101	c1sqiA_	Alignment	not modelled	88.9	17	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
102	c1tfzA_	Alignment	not modelled	88.3	16	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
103	d1xrka_	Alignment	not modelled	88.0	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
104	d1jifa_	Alignment	not modelled	87.0	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
105	d1tsja_	Alignment	not modelled	86.1	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: 3-demethylubiquinone-9 3-methyltransferase
106	c3rriB_	Alignment	not modelled	85.2	9	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
107	c5vb0E_	Alignment	not modelled	85.0	26	PDB header: transferase Chain: E: PDB Molecule: fosfomycin resistance protein fosa3; PDBTitle: crystal structure of fosfomycin resistance protein fosa3
108	d1zswa2	Alignment	not modelled	83.5	9	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: BC1024-like
109	d1r9ca_	Alignment	not modelled	81.9	18	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
110	c3uh9B_	Alignment	not modelled	81.7	11	PDB header: transferase Chain: B: PDB Molecule: metallothiol transferase fosb 2; PDBTitle: crystal structure of metallothiol transferase fosb 2 from bacillus2 anthracis str. ames
111	c6iptB_	Alignment	not modelled	81.3	15	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
112	c3e5dA_	Alignment	not modelled	81.0	13	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
113	c4huzA_	Alignment	not modelled	80.4	7	PDB header: oxidoreductase Chain: A: PDB Molecule: 2,6-dichloro-p-hydroquinone 1,2-dioxygenase; PDBTitle: 2,6-dichloro-p-hydroquinone 1,2-dioxygenase
114	c3k0lA_	Alignment	not modelled	77.5	14	PDB header: metal binding protein Chain: A: PDB Molecule: glyoxalase/bleomycin resistance PDBTitle: crystal structure of a glyoxalase/dioxygenase from nostoc2 punctiforme
115	d1zswa1	Alignment	not modelled	76.5	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: BC1024-like
116	c5cb9A_	Alignment	not modelled	76.2	10	PDB header: lyase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of c-as lyase with mercaptoethonal PDB header: lyase

117	c5hmqE_	Alignment	not modelled	76.2	16	Chain: E: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: xylose isomerase-like tim barrel/4-hydroxyphenylpyruvate dioxygenase2 fusion protein
118	d1q0oa2	Alignment	not modelled	75.2	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
119	d1lqta2	Alignment	not modelled	71.7	20	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
120	d1t47a2	Alignment	not modelled	71.6	30	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases