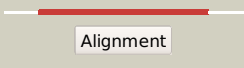

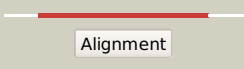

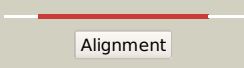

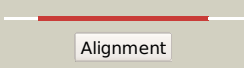

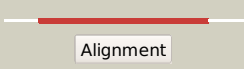

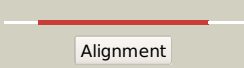

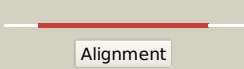

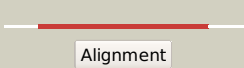

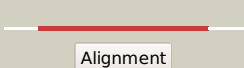

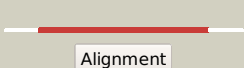

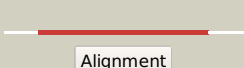



Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0911_(-)_1015402_1016175
Date	Fri Jul 26 01:50:50 BST 2019
Unique Job ID	bafae86cdd6e2c44

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1zswA_			100.0	10	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: crystal structure of bacillus cereus metallo protein from glyoxalase2 family
2	c1lmpyD_			100.0	15	PDB header: oxidoreductase Chain: D: PDB Molecule: catechol 2,3-dioxygenase; PDBTitle: crystal structure of catechol 2,3-dioxygenase (metapyrocatechase)2 from pseudomonas putida mt-2
3	c3lm4C_			100.0	12	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)
4	c3oajA_			100.0	14	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
5	c3ecjC_			100.0	14	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
6	c3b59A_			100.0	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
7	c3hpyD_			100.0	15	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
8	c3zi1A_			100.0	10	PDB header: isomerase Chain: A: PDB Molecule: glyoxalase domain-containing protein 4; PDBTitle: crystal structure of human glyoxalase domain-containing protein 42 (glod4)
9	c2ei2A_			100.0	11	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
10	c1fl1uB_			100.0	14	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)
11	c2zi8A_			100.0	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)

12	c3vb0D_	Alignment		100.0	12	PDB header: oxidoreductase Chain: D: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of 2,2',3-trihydroxybiphenyl 1,2-dioxygenase from 2 dibenzofuran-degrading sphingomonas wittichii strain rw1
13	c5znhA_	Alignment		100.0	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
14	c4ro6A_	Alignment		100.0	19	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of glyoxalase i from zea mays
15	c1knfA_	Alignment		100.0	12	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
16	c2wl9A_	Alignment		100.0	11	PDB header: oxidoreductase Chain: A: PDB Molecule: catechol 2,3-dioxygenase; PDBTitle: crystal structure of catechol 2,3-dioxygenase
17	c1kw3B_	Alignment		100.0	10	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
18	c4huzA_	Alignment		100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: 2,6-dichloro-p-hydroquinone 1,2-dioxygenase; PDBTitle: 2,6-dichloro-p-hydroquinone 1,2-dioxygenase
19	c1sp8A_	Alignment		100.0	12	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: 4-hydroxyphenylpyruvate dioxygenase
20	c1t47A_	Alignment		100.0	14	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: structure of fe2-hppd bound to ntbc
21	c2r5vA_	Alignment	not modelled	99.9	11	PDB header: oxidoreductase Chain: A: PDB Molecule: pcza361.1; PDBTitle: hydroxymandelate synthase crystal structure
22	d1sp9a_	Alignment	not modelled	99.9	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
23	c1cjcC_	Alignment	not modelled	99.9	12	PDB header: oxidoreductase Chain: C: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: crystal structure of pseudomonas fluorescens hppd
24	c1tfzA_	Alignment	not modelled	99.9	14	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
25	c1sqiA_	Alignment	not modelled	99.9	12	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
26	c3zgjA_	Alignment	not modelled	99.9	15	PDB header: oxidoreductase Chain: A: PDB Molecule: 4-hydroxyphenylpyruvic acid dioxygenase; PDBTitle: s221m v223f y359a mutant of 4-hydroxymandelate synthase2 from streptomyces coelicolor
27	c3pkwA_	Alignment	not modelled	99.9	16	PDB header: lyase Chain: A: PDB Molecule: toxoflavin lyase (tfla); PDBTitle: crystal structure of toxoflavin lyase (tfla) bound to mn(ii)
						PDB header: tiancimycin-binding protein Chain: A: PDB Molecule: glyoxalase/bleomycin resistance

28	c5umwA_	Alignment	not modelled	99.9	17	protein/dioxygenase; PDBTitle: crystal structure of tnms2, an antibiotic binding protein from2 streptomyces sp. cb03234
29	c4g6xA_	Alignment	not modelled	99.9	11	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of glyoxalase/bleomycin resistance protein from2 catenulispora acidiphila.
30	c2r6uB_	Alignment	not modelled	99.8	20	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of gene product rha04853 from rhodococcus sp. rha1
31	d1qipa_	Alignment	not modelled	99.8	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
32	c3g12A_	Alignment	not modelled	99.8	14	PDB header: lyase Chain: A: PDB Molecule: putative lactoylglutathione lyase; PDBTitle: crystal structure of a putative lactoylglutathione lyase from2 bdellovibrio bacteriovorus
33	c3r6aB_	Alignment	not modelled	99.8	15	PDB header: isomerase, lyase Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of an uncharacterized protein (hypothetical protein2 mm_3218) from methanosarcina mazi.
34	c5uhjA_	Alignment	not modelled	99.8	19	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
35	d2i7ra1	Alignment	not modelled	99.8	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
36	c4nvsB_	Alignment	not modelled	99.8	13	PDB header: unknown function Chain: B: PDB Molecule: putative enzyme, glyoxalase family; PDBTitle: crystal structure of the q18cp6_c1od6 protein from glyoxalase family.2 northeast structural genomics consortium target cfr3
37	c4mtsA_	Alignment	not modelled	99.8	19	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: ni- and zn-bound gloa2 at high resolution
38	c3bt3B_	Alignment	not modelled	99.8	15	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
39	d1f9za_	Alignment	not modelled	99.8	24	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
40	c3itwA_	Alignment	not modelled	99.8	18	PDB header: peptide binding protein Chain: A: PDB Molecule: protein tox; PDBTitle: crystal structure of tox from micromonospora sp. m11
41	c5ujpB_	Alignment	not modelled	99.8	22	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
42	c4hc5A_	Alignment	not modelled	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
43	d1mpya2	Alignment	not modelled	99.8	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
44	c3rheA_	Alignment	not modelled	99.8	15	PDB header: oxidoreductase Chain: A: PDB Molecule: nad-dependent benzaldehyde dehydrogenase; PDBTitle: the crystal structure of nad-dependent benzaldehyde dehydrogenase from2 legionella pneumophila
45	c3huhA_	Alignment	not modelled	99.8	17	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
46	d1zswa2	Alignment	not modelled	99.8	10	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: BC1024-like
47	c3l7tB_	Alignment	not modelled	99.7	17	PDB header: metal binding protein Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of smu.1112c
48	c6bu2A_	Alignment	not modelled	99.7	14	PDB header: isomerase Chain: A: PDB Molecule: glyoxalase; PDBTitle: crystal structure of methylmalonyl-coa epimerase from mycobacterium2 tuberculosis
49	d2c21a1	Alignment	not modelled	99.7	18	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Glyoxalase I (lactoylglutathione lyase)
50	d1q0oa2	Alignment	not modelled	99.7	13	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase

						Family: Extradiol dioxygenases
51	c2zw7A_	Alignment	not modelled	99.7	15	PDB header: transferase Chain: A: PDB Molecule: bleomycin acetyltransferase; PDBTitle: crystal structure of bleomycin n-acetyltransferase complexed2 with bleomycin a2 and coenzyme a
52	c4lqbA_	Alignment	not modelled	99.7	15	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of uncharacterized protein kfla3161
53	c3rmuD_	Alignment	not modelled	99.7	9	PDB header: isomerase Chain: D: PDB Molecule: methylmalonyl-coa epimerase, mitochondrial; PDBTitle: crystal structure of human methylmalonyl-coa epimerase, mcee
54	c3e0rC_	Alignment	not modelled	99.7	14	PDB header: hydrolase Chain: C: PDB Molecule: c3-degrading proteinase (cppa protein); PDBTitle: crystal structure of cppa protein from streptococcus pneumoniae tigr4
55	c3oa4A_	Alignment	not modelled	99.7	12	PDB header: lyase Chain: A: PDB Molecule: glyoxalase; PDBTitle: crystal structure of hypothetical protein bh1468 from bacillus2 halodurans c-125
56	c4gymB_	Alignment	not modelled	99.7	13	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
57	d1mpya1	Alignment	not modelled	99.7	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
58	c3ghjA_	Alignment	not modelled	99.7	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
59	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
60	d1ss4a_	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein BC1747
61	c2p25A_	Alignment	not modelled	99.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: the crystal structure of the glyoxalase family protein from2 enterococcus faecalis
62	d1nkia_	Alignment	not modelled	99.7	18	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
63	c3ey7B_	Alignment	not modelled	99.7	15	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
64	c3rriB_	Alignment	not modelled	99.7	11	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
65	c4jh1B_	Alignment	not modelled	99.7	13	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
66	c3r4qB_	Alignment	not modelled	99.7	17	PDB header: lyase Chain: B: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of lactoylglutathione lyase from agrobacterium2 tumefaciens
67	c2kzjA_	Alignment	not modelled	99.7	18	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.
68	d1zswa1	Alignment	not modelled	99.7	10	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: BC1024-like
69	c3m2oB_	Alignment	not modelled	99.7	22	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 rhodospseudomonas palustris cgaa009
70	c2rk0B_	Alignment	not modelled	99.7	14	PDB header: oxidoreductase Chain: B: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase domain; PDBTitle: crystal structure of glyoxalase/bleomycin resistance2 protein/dioxygenase domain from frankia sp. ean1pec
71	d1lqta2	Alignment	not modelled	99.7	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
72	d1kw3b2	Alignment	not modelled	99.7	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
						Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase

73	d1twua_	Alignment	not modelled	99.7	9	Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein YycE
74	d2pjsa1	Alignment	not modelled	99.7	19	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
75	c3bqxA_	Alignment	not modelled	99.7	20	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
76	d1flxa1	Alignment	not modelled	99.7	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
77	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
78	d1kw3b1	Alignment	not modelled	99.7	10	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
79	c2qh0A_	Alignment	not modelled	99.7	9	PDB header: lyase Chain: A: PDB Molecule: lactoylglutathione lyase; PDBTitle: crystal structure of a glyoxalase from clostridium acetobutylicum
80	c3e5dA_	Alignment	not modelled	99.7	16	PDB header: lyase Chain: A: PDB Molecule: putative glyoxalase i; PDBTitle: crystal structure of a putative glyoxalase i (lmo2365_0426) from2 listeria monocytogenes str. 4b f2365 at 2.70 a resolution
81	d1klla_	Alignment	not modelled	99.7	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
82	d1jc4a_	Alignment	not modelled	99.7	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Methylmalonyl-CoA epimerase
83	c3zw5A_	Alignment	not modelled	99.7	8	PDB header: lyase Chain: A: PDB Molecule: glyoxalase domain-containing protein 5; PDBTitle: crystal structure of the human glyoxalase domain-containing protein 5
84	d1flua2	Alignment	not modelled	99.7	10	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
85	c3sk1C_	Alignment	not modelled	99.7	16	PDB header: griseoluteate-binding protein Chain: C: PDB Molecule: ehpr; PDBTitle: crystal structure of phenazine resistance protein ehpr from2 enterobacter agglomerans (erwinia herbicola, pantoea agglomerans)3 eh1087, apo form
86	d1sp8a1	Alignment	not modelled	99.7	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
87	c3gm5A_	Alignment	not modelled	99.7	20	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
88	c4nb2B_	Alignment	not modelled	99.7	14	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
89	c4n04B_	Alignment	not modelled	99.7	13	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
90	c2p7pB_	Alignment	not modelled	99.7	19	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
91	c4pavA_	Alignment	not modelled	99.7	19	PDB header: unknown function Chain: A: PDB Molecule: glyoxalase family protein; PDBTitle: structure of hypothetical protein sa1046 from s. aureus.
92	d1lqta1	Alignment	not modelled	99.7	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
93	c3ct8A_	Alignment	not modelled	99.7	12	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
94	d1flua1	Alignment	not modelled	99.7	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase

						Family: Extradiol dioxygenases
95	c5cb9A_	Alignment	not modelled	99.7	14	PDB header: lyase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance protein/dioxygenase; PDBTitle: crystal structure of c-as lyase with mercaptoethonal
96	c4qb5A_	Alignment	not modelled	99.7	13	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
97	c2rk9B_	Alignment	not modelled	99.7	20	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
98	c6on3C_	Alignment	not modelled	99.6	12	PDB header: oxidoreductase Chain: C: PDB Molecule: l-dopa extradiol dioxygenase; PDBTitle: a substrate bound structure of l-dopa dioxygenase from streptomyces2 sclerotialus
99	c4mymA_	Alignment	not modelled	99.6	13	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
100	d1f1xa2	Alignment	not modelled	99.6	11	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
101	c3kolA_	Alignment	not modelled	99.6	17	PDB header: metal binding protein Chain: A: PDB Molecule: glyoxalase/bleomycin resistance PDBTitle: crystal structure of a glyoxalase/dioxygenase from nostoc2 punctiforme
102	c2q48A_	Alignment	not modelled	99.6	16	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
103	d1t47a1	Alignment	not modelled	99.6	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
104	d1sqia1	Alignment	not modelled	99.6	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
105	d1xy7a_	Alignment	not modelled	99.6	16	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Hypothetical protein At5g48480
106	d1npba_	Alignment	not modelled	99.6	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
107	c3uh9B_	Alignment	not modelled	99.6	14	PDB header: transferase Chain: B: PDB Molecule: metallothiol transferase fob2; PDBTitle: crystal structure of metallothiol transferase fob2 from bacillus2 anthracis str. ames
108	d1ecsa_	Alignment	not modelled	99.6	21	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
109	d1xqaa_	Alignment	not modelled	99.6	12	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
110	c4z04A_	Alignment	not modelled	99.6	16	PDB header: lyase Chain: A: PDB Molecule: glyoxalase/bleomycin resistance /dioxygenase superfamily PDBTitle: crystal structure of a probable lactoylglutathione lyase from brucella2 melitensis in complex with glutathione
111	d1sqda1	Alignment	not modelled	99.6	14	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Extradiol dioxygenases
112	c2qntA_	Alignment	not modelled	99.6	17	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
113	d1r9ca_	Alignment	not modelled	99.6	18	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
114	c4rt5A_	Alignment	not modelled	99.6	15	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
115	c5vb0E_	Alignment	not modelled	99.6	15	PDB header: transferase Chain: E: PDB Molecule: fosfomycin resistance protein fosa3; PDBTitle: crystal structure of fosfomycin resistance protein fosa3
116	c3fd9B_	Alignment	not modelled	99.6	13	PDB header: lyase Chain: B: PDB Molecule: lyase;

116	c9t0b_	Alignment	not modelled	99.6	10	PDBTitle: crystal structure of a putative glyoxalase from an2 environmental bacteria
117	c6a4zA_	Alignment	not modelled	99.6	11	PDB header: biosynthetic protein Chain: A: PDB Molecule: chap protein; PDBTitle: oxidase chap
118	c5hmqE_	Alignment	not modelled	99.5	12	PDB header: lyase Chain: E: PDB Molecule: 4-hydroxyphenylpyruvate dioxygenase; PDBTitle: xylose isomerase-like tim barrel/4-hydroxyphenylpyruvate dioxygenase2 fusion protein
119	d1u6la_	Alignment	not modelled	99.5	15	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: 3-demethylubiquinone-9 3-methyltransferase
120	c6iptB_	Alignment	not modelled	99.5	14	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