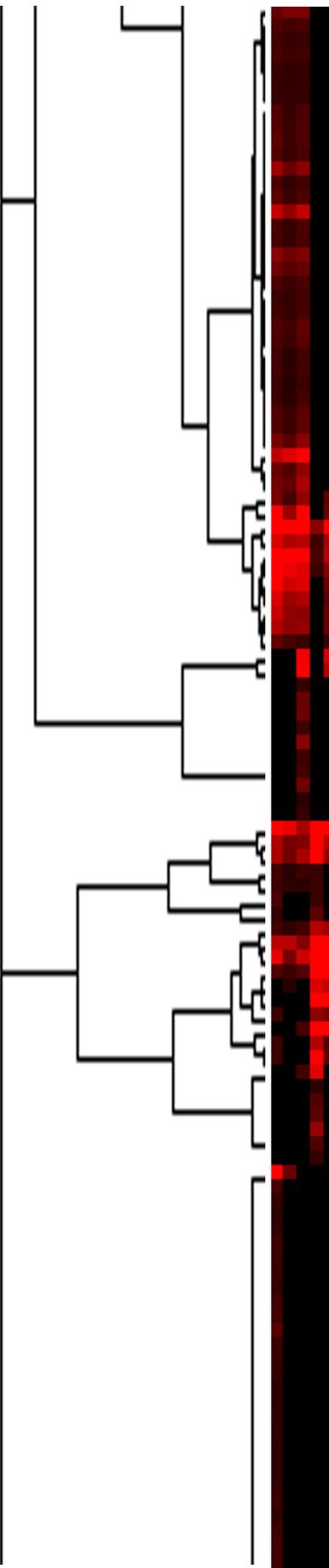


7226707:exm. exonolymhosphatase. *Neisseria meningitidis* MC58
21667322:nhvtase. nhvtase L precursor. *Bacillus licheniformis*
7160923:nirS. nitrite reductase. uncultured bacterium Y32K
20502013:dsr. dissimilatory sulfite reductase subunit A. uncultured sulfate-reducingbacterium
45520:xlvanse. nrenonmentide (AA -26 to 585). *Cellvibrio cellulosa*
13249569:dsr. dissimilatory sulfite reductase subunit B. uncultured sulfate-reducingbacterium
3643998:halobenzoate. o-halobenzoate dioxygenase alpha subunit , *Pseudomonas aeruginosa*
11071715:MetA. mercuric reductase. *Bacillus macroides*
15055587:dsr. dissimilatory sulfite reductase alpha subunit, *Desulfococcus multivorans*
17865808:chitinase. chitinase A precursor. *Cellulomonas uda*
2996622:benzoate. BenB . *Acinetobacter* sp. ADP1
2239059:catechol. 3-carboxy-cis-cis-muconate cvcloisomerase , *Bradyrhizobium japonicum*
4586276:phenanthrene. isomerase . *Alcaligenes faecalis*
20162472:catechol. 2-hydroxymuconic semialdehyde hydrolase . *Sphingomonas* sp. KMG425
155348:alkane-halo. haloalkane dehalogenase . *Xanthobacter autotrophicus*
3283950:amO. ammonia monoxygenase. uncultured bacterium BRC6
1845337:chitinase. chitinase. *Bacillus licheniformis*
780657:naphthalene. putative 2-hydroxychromene-2-carboxylate isomerase. *Rhizobiumleguminosarum* bv. *viciae*
3892198:dsr. dissimilatory sulfite reductase beta. *Archaeoflohis profundus*
21322687:metal. putative mercuric reductase . *Pseudomonas fulva*
4104166:endoalucan. endoalucanase. *Pseudomonas* sp. YD-15
2935024:catechol. protocatechuate dioxygenase beta subunit , *Rhodococcus opacus*
3724172:benzoate. ferredoxin . *Thaueria aromatica*
11967269:catechol. 3-oxoadipate enol-lactone hydrolase . *Ralstonia eutropha*
13446760:aminophenol. putative ferredoxin . *Pseudomonas putida*
960300:chitinase. chitinase. *Aeromonas* sp. 10S-24
13249547:dsr. dissimilatory sulfite reductase subunit B. uncultured sulfate-reducingbacterium
642056:binhenvl. 3,4-dihydroxybinhenvlacetate 2,3-dioxygenase , *Arthrobacter globiformis*
13445193:alkane. putative esterase . *Pseudomonas fluorescens*
19421860:rdh. putative reductive dehalogenase . *Desulfitobacterium hafniense*
19911569:chbL. RuBisCO form I . *Methylococcus capsulatus*
2935025:catechol. protocatechuate dioxygenase alpha subunit , *Rhodococcus opacus*
6624272:catechol. 2-hydroxypent-2,4-dienoate hydratase , *Comamonas testosteroni*
M300002B:dsr. lab clone
W306762A:dsr. lab clone
12667043:hydroxybenzoate. 3-hydroxybenzoate CoA ligase . *Thaueria aromatica*
1702883:hydroxybinhenvlironionate. 2-hydroxy-6-ketono-2,4-dienedioic acid hydrolase , *Escherichia coli*
3057083:nosZ. nitrous oxide reductase. *Paracoccus nantotrohus*
4210875:alkene. oxygenase gamma subunit . *Xanthobacter* sp. Py2
7573256:fluorene. F1dB protein . *Sphingomonas* sp. LB126
11641378:catechol. probable maleylpyruvate isomerase . *Pseudomonas alcaligenes*
13445198:alkane. very-long-chain acyl-coA dehydrogenase homolog . *Pseudomonas fluorescens*
6163916:TCE. trichloroethene reductive dehalogenase . *Dehalococcoides ethenogenes*
19714428:exm. 3-dehydroquinate synthase: Exonolymphosphatase, *Fusobacterium nucleatum*
1172165:laccf. laccase IV. *Trametes versicolor*
286035:mkase. polymhosphate kinase. *Klebsiella aerogenes*
4160661:catechol. protocatechuate 3,4-dioxygenase alpha subunit: PcaG: 3,4-PCD , *Streptomyces* sp.
14588936:MetA. H⁺-ATPase subunit. plasma membrane . *Saccharomyces cerevisiae*
148392:endoalucan. endoalucanase Y. *Erwinia chrysanthemi*
1702882:hydroxybinhenvlironionate. 3-(2,3-dihydroxybinhenvlironionate)1,2-dioxygenase . *Escherichia coli*
7592854:chbM. ribulose-15-bisphosphate carboxylase/oxygenase, uncultured deep-sea autotrophic bacterium
2661416:amS. SamB protein, *Emericella nidulans*
FW003205B:dsr. lab clone
1345349-1344882:TCE. reductive dehalogenase. *Dehalococcoides ethenogenes*
960296:chitinase. chitinase. *Aeromonas* sp. 10S-24
7592846:chbM. ribulose-15-bisphosphate carboxylase/oxygenase, uncultured deep-sea autotrophic bacterium
5824145:alkane. rubredoxin 2 . *Pseudomonas putida*
21038969:24-D. alpha KG dependent 2,4-D dioxygenase . alpha proteobacterium HW13
17942398:dinitrotoluene. DntAb . *Burkholderia cenoacia*
2627157:catechol. 4-hydroxy-2-oxovalerate aldolase . *Acinetobacter* sp.
13992206:alkane. alcohol dehydrogenase . *Alcanivorax borkumensis*
634072:salicylate. salicylate 1-monoxygenase . *Pseudomonas putida*
21388685:dibenzofuran. extradiol dioxygenase . *Rhodococcus* sp. YK2
8346965:limin. reductase-subunit oxygenase . *Pseudomonas fluorescens*
200539-201018:TCE. reductive dehalogenase. *Dehalococcoides ethenogenes*
974698:chitinase. chitinase. *Serratia marcescens*
14456716:mno. particulate methane monoxygenase subunit PmoC3. *Methylococcus capsulatus*
6634495:limin. putative formaldehyde dehydrogenase (glutathione-dependent) , *Pseudomonas* sp.
NKTT43:nirK. lab clone
16262853:benzene. putative aromatic-ring hydroxylating dioxygenase. alpha-subunit . *Sinorhizobiummeliloti*
15077492:dsr. dissimilatory sulfite reductase alpha subunit. *Thermodesulfobacteriumthermophilum*
1905991:hydroxybinhenvlironionic acid . 2-hydroxy-6-ketono-2,4-dienoate hydrolase: HppC , *Rhodococcus globerulus*
18369656:benzoate. benzoyl CoA reductase subunit . *Azoarcus evansii*
2429345:MetA. tellurite resistance protein . *Rhodobacter saharoides*
14289338:benzoate. benzoate dioxygenase large subunit . *Rhodococcus* sp. 19070
16264127:chbL. putative ribulose bisphosphate carboxylaseoxygenase. *Sinorhizobium meliloti*
510290:binhenvl. 2,3-dihydroxy-1-benhylcyclohexa-4,6-diene dehydrogenase . *Rhodococcus* sp.
4530443:catechol. beta-ketoadipyl-CoA thiolase: PcaF . *Streptomyces* sp. 2065
5851789:phenol. phenol hydroxylase component . *Ralstonia* sp. KN1
11967274:catechol. unknown . *Ralstonia eutropha*
8346964:limin. a-subunit oxygenase . *Pseudomonas fluorescens*
15832281:salicylate. putative salicylate hydroxylase . *Escherichia coli* O157:H7
5916089:catechol. maleylacetate reductase . *Ralstonia eutropha*
3618272:dioxin. putative ferredoxin . *Sphingomonas* sp.
6681674:chitinase. chi25. *Streptomyces thermoviolaceus*
21109879:metal. arsenate reductase . *Xanthomonas axononodis* bv. *citri* str. 306
21038759:chbM. 5-bisphosphate carboxylase/oxygenase form II large subunit, uncultured bacterium
1840137:cmvne. n-cmvne methyl hydroxylase . *Pseudomonas chlororaphis*
14523811:nor. NorB nitric oxide reductase. *Sinorhizobium meliloti*
1294804:catechol. extradiol dioxygenase: catechol 2,3-dioxygenase: EdoA; CatA , *Rhodococcusrhodochrous*
7619813:phenanthrene. dihydrodiol dehydrogenase . *Nocardioideis* sp. KP7
7573258:fluorene. F1dD protein . *Sphingomonas* sp. LB126
14196233:dibenzofuran. ferredoxin reductase . *Terrabacter* sp. DFB63
3820521:PAH. dihydrodiol dehydrogenase PnhB , *Burkholderia* sp. RP007
166334:laccf. laccase. *Agaricus bisporus*
2098616:binhenvl. 2-hydroxybinhenvl-3-monoxygenase . *Pseudomonas azelaica*
8978307:binhenvl. 2,3-dihydroxybinhenvl 1,2-dioxygenase . *Rhodococcus* sp. RHA1
10697119:phenol. hypothetical protein . *Thaueria aromatica*
13173397:parathion. methyl parathion hydrolase . *Plesiomonas* sp. M6
11037223:catechol. protocatechuate 3,4-dioxygenase type I beta subunit PcaH-I , *Agrobacterium*
PB20:nirK. lab clone
12539421:chlorobenzoate. cis-diol dehydrogenase , *Burkholderia* sp. NK8
4062861:limin. LixA . *Sphingomonas naucinohillis*
3172121:catechol. dehydroshikimate dehydratase . *Acinetobacter* sp. ADP1
3114667:mhosphite. putative C-P lyase subunit HtxG . *Pseudomonas stutzeri*
3618271:dioxin. extradiol dioxygenase . *Sphingomonas* sp.
14009560:amO. ammonia monoxygenase-like. uncultured bacterium gp17
10697118:phenol. hypothetical protein . *Thaueria aromatica*
9107810:exm. exonolymhosphatase, *Xylella fastidiosa* 9a5c
NIRRD84475:nirS. lab clone

6002402:mno. soluble methane monooxygenase reductase component (MMOR), *Methylomonas* sp.
953231:catechol. catechol 2,3-dioxygenase, *Ralstonia pickettii*
2239061:catechol. gamma-carboxymuconolactone decarboxylase, *Bradyrhizobium japonicum*
8978312:binhenvl. 2,3-dihydroxybinhenvyl 1,2-dioxygenase, *Rhodococcus* sp. RHA1
17548829:0. PROBABLE FERREDOXIN REDUCTASE PROTEIN, *Ralstonia solanacearum*
9622535:toluene. BbsE, *Thauera aromatica*
17987490:salicylate. SALICYLATE HYDROXYLASE, *Brucella melitensis*
1353348:chitinase. chitinase, *Amvcolatonsis methanolica*
19070044:metal. chromate resistance protein, uncultured bacterium
7209518:chitinase. chitinase B, *Burkholderia gladioli*
3738250:limosilbene. limosilbene alpha. beta-dioxygenase, *Sphingomonas paucimobilis*
6136053:benzoate. benzaldehyde dehydrogenase, *Sphingomonas chungbukensis*
B9-12S:nirK. lab clone
15807656:mkase. polyphosphatase kinase, *Deinococcus radiodurans*
3059201:binhenvyl. hydroxylase, *Rhodococcus erythropolis*
1516377:limin. ferredoxin, *Pseudomonas* sp.
1790867:toluenesulfonate. toluenesulfonate methyl-monoxygenase oxygenase component, *Comamonas testosteroni*
1040685:benzoate. benzoate-coenzyme A ligase, *Rhodospseudomonas palustris*
NKTT70:nirK. lab clone
13591531:toluene. toluene monooxygenase, *Bradyrhizobium* sp. C9
21320826:FTHFS. putative formyltetrahydrofolate synthetase, uncultured bacterium
7649289:catechol. protocatechuate 3,4-dioxygenase alpha subunit, *Sarittula stellata*
15140445:0. putative ferredoxin reductase protein, *Sinorhizobium meliloti*
286173:0. 2,5-dichloro-2,5-cyclohexadiene-1,4-diol dehydrogenase, *Sphingomonas paucimobilis*
6624273:catechol. acetaldehyde dehydrogenase (acylating), *Comamonas testosteroni*
4633080:methanesulfonic acid. hydroxylase alpha subunit, *Methylotetrasphaera methylovora*
151190:metal. conC pentide, *Pseudomonas syringae*
10697125:phenol. hypothetical protein, *Thauera aromatica*
17549132:salicylate. PUTATIVE SALICYLATE HYDROXYLASE OXIDOREDUCTASE PROTEIN, *Ralstonia solanacearum*
3445532:phenol. phenol hydroxylase component: PoxA, *Ralstonia* sp. E2
7160897:nirS. nitrite reductase, uncultured bacterium v04
294671:ammeline. N-ethylammeline chlorohydrolase, *Gordonia rubripertinctus*
6540589:chlorobenzoate. 4-chlorobenzoyl CoA ligase, *Pseudomonas* sp. DJ-12
TPB16070B:dsr. lab clone
11641382:catechol. probable 6-hydroxylase, *Pseudomonas alcaligenes*
13872674:metal. Mercuric reductase (Mer(II) reductase) (merA), *Sulfolobus solfataricus*
3641341:catechol. lactone-specific esterase, *Pseudomonas fluorescens*
6690104:nitrotoluene. 4-nitrobenzyl alcohol dehydrogenase NtnD, *Pseudomonas* sp. TW3
3059185:binhenvyl. hydroxylase, *Rhodococcus erythropolis*
7573257:fluorene. FldC protein, *Sphingomonas* sp. LB126
21322691:metal. putative mercuric reductase, *Pseudomonas aeruginosa*
4755082:naaA. nitrate reductase large subunit, *Klebsiella oxytoca*
7649293:catechol. protocatechuate 3,4-dioxygenase beta subunit, alpha proteobacterium Y3F
17934921:0. ferredoxin reductase, *Agrobacterium tumefaciens* str. C58 (U. Washington)
9651045:phenol. AmnA, *Pseudomonas* sp.
2935029:catechol. 3-oxoadinyl CoA thiolase homolog, *Rhodococcus opacus*
3046914:phenol. phenol hydroxylase, *Geobacillus thermoleovorans*
11967273:catechol. unknown, *Ralstonia eutropha*
17066222:laccf. laccase, *Pycnoporus cinnabarinus*
17863089:chitinase. chitinase, *Vibrio* sp. 55M-1
903976:phthalate. MpnA, *Burkholderia cenocepacia*
16S-1100:rRNA. 16S rRNA gene-1100, universal
W307294A:dsr. lab clone
3153165:dioxin. redA2, *Sphingomonas* sp.
1805555:metal. PUTATIVE ARSENATE REDUCTASE (ARSENICAL PUMP MODIFIER), *Escherichia coli*
21623558:PCE. PCE dehalogenase, *Desulfotolambdella* sp. Y51
3114668:rhosphite. putative C-P lyase subunit HtdH, *Pseudomonas stutzeri*
1841362:metal. large subunit of terminal dioxygenase, *Pseudomonas putida*
2398777:catechol. catechol 1,2-dioxygenase, *Rhodococcus opacus*
21242882:metal. cation efflux system protein, *Xanthomonas axonopodis* pv. citri str. 306
5688873:binhenvyl. hydroxymuconol 1,2-dioxygenase, *Arthrobacter* sp.
14601420:metal. mercuric reductase, *Aeropyrum pernix*
11610568:catechol. 2-hydroxymuconic 6-semialdehyde dehydrogenase, *Pseudomonas* sp.
13249545:dsr. dissimilatory sulfite reductase subunit B, uncultured sulfate-reducing bacterium
505261:xylanase. endo-1,4-beta-xylanase, *Humicola insolens*
7363464:endo-glucan. endoglucanase M, *Clostridium cellulovorans*
20373111:catechol. putative meta cleavage compound hydrolase, *Terrabacter* sp. DBF63
16943679:cvclohexane. cvclohexanone 1,2-monoxygenase, *Comamonas testosteroni*
22252786:nirS. nitrite reductase, uncultured bacterium
295708:phthalate. PHT1, *Pseudomonas putida*
22796202:nirS. nitrite reductase, gamma proteobacterium C10-1
4239914:phenol. phenol hydroxylase alpha subunit, *Burkholderia cenocepacia*
4579702:catechol. b-ketoadipate enol-lactone hydrolase, *Frateriella* sp. ANA-18
3452466:mkase. exopolysphatase, *Vibrio cholerae*
3243171:carbazole. dehydrogenase, *Sphingomonas* sp. CB3
758227:xylanase. endo-beta-1,4-xylanase, *Cellvibrio ionanicus*
10441632:catechol. 2-hydroxymuconic semialdehyde dehydrogenase, *Comamonas* sp. JS765
18034349:dsr. dissimilatory sulfite reductase alpha subunit, *Desulfobacterium vacuolatum*
14530744:metal. ChrA protein, *Ralstonia metallidurans*
600093:naaA. periplasmic nitrate reductase large subunit, *Paracoccus denitrificans*
13992549:metal. Cop protein, *Pseudomonas fluorescens*
3059191:binhenvyl. ferredoxin reductase, *Rhodococcus erythropolis*
2822271:catechol. 2-hydroxy-2,4-dienoate hydratase, *Pseudomonas putida*
12584219:endo-glucan. endoglucanase, *Volvariella volvacea*
216419:xylanase. thermostable celloxylanase, *Clostridium stercorarium*
9957145:laccf. laccase LCC3-2, *Polyporus ciliatus*
17826943:catechol. catechol 2,3-dioxygenase PhkH, *Burkholderia kururiensis*
780658:nanththalene. putative alcohol dehydrogenase, *Rhizobium leguminosarum* bv. viciae
Y32S:nirK. lab clone
3164104:amA. ammonia monooxygenase, *Pseudomonas putida*
4586280:phenanthrene. 2-carboxybenzaldehyde dehydrogenase, *Alcaligenes faecalis*
1906777:binhenvyl. 2,3-dihydroxybinhenvyl 1,2-dioxygenase, *Rhodococcus* sp.
3165396:benzoate. benzoyl-CoA reductase subunit, *Rhodospseudomonas palustris*
10957013:catechol. 4-hydroxy-2-oxovalerate aldolase, *Novosphingobium aromaticivorans*
4091976:catechol. 4-oxalocrotonate isomerase, *Sphingomonas chungbukensis*
10442739:catechol. protocatechuate 3,4-dioxygenase alpha subunit, *Pseudomonas* sp. IMT40
1217885:metal. ORF109, *Bacillus subtilis*
17385468:narG. putative nitrate reductase, *Paenibacillus* sp. Lmr15.3
11037224:catechol. protocatechuate 3,4-dioxygenase type I alpha subunit PcaG-I, *Agrobacterium*
14861214:catechol. PmfF, *Comamonas testosteroni*
757807:xylanase. endo-beta-1,4-xylanase, *Cellvibrio mixtus*
1008897:benzene. alpha subunit-terminal oxygenase component, *Pseudomonas* sp.
19571180:benzoate. 6-hydroxycyclohex-1-en-1-carboxyl-CoA dehydrogenase, *Thauera aromatica*
21320167:catechol. protocatechuate 3,4-dioxygenase beta subunit, *Acinetobacter lwoffii*
10956965:nanththalene. small subunit aromatic oxygenase, *Novosphingobium aromaticivorans*
18495818:cvclohexane. cvclohexanone 1,2-monoxygenase, *Xanthobacter flavus*
144932:xylanase. xylanase Z, *Clostridium thermocellum*
3021352:dsr. dissimilatory sulfite reductase subunit alpha, *Desulfobacterium autotrophicum*
6492234:aminobenzenesulfonate. 2-aminobenzenesulfonate dioxygenase large subunit, *Alcaligenes* sp. 0-1



4007415:catechol, acetaldehyde dehydrogenase (acylating), *Sphingomonas chundukensis*
 4007416:catechol, 4-hydroxy-2-oxovalerate aldolase, *Sphingomonas chungbukensis*
 11545315:am0A, ammonia monooxygenase, *Nitrosomonas* sp. NM51
 3059181:binhenvl, 2,3-dihydroxybinhenvl 1,2-dioxygenase, *Rhodococcus erythronolis*
 3243170:carbazole, initial dioxygenase reductase subunit, *Sphingomonas* sp. CB3
 16501863:nifD, molybdenum-containing oxidoreductase, *Salmonella enterica* subsp. *enterica* serovar *Typhi*
 20373109:catechol, putative hydrolase, *Terrabacter* sp. DBE63
 5650771:metal, putative mercuric reductase, *Synechococcus* sp. PCC 7002
 3644005:halobenzoate, putative dioxygenase, *Pseudomonas aeruginosa*
 1272894-1272409:TCE, reductive dehalogenase, *Dehalococcoides ethanogenes*
 21320430:FTFS, putative formyltetrahydrofolate synthetase, uncultured bacterium
 1066147:alkane, epoxidase subunit, *Gordonia rubrinertinctus*
 17227035:carbazole, ferredoxin, *Sphingomonas* sp. GTD11
 1790871:toluenesulfonate, toluenesulfonate aldehyde dehydrogenase, *Comamonas testosteroni*
 1732455:catechol, 2-hydroxy-2,4-dienoate hydratase, *Pseudomonas fluorescens*
 18034177:ans, adenosine-5-phosphosulfate reductase alpha subunit, *Desulfonema magnum*
 13242055:phthalate, phthalate dioxygenase small subunit, *Arthrobacter koveri*
 17549724:nor, PROBABLE NITRIC OXIDE REDUCTASE (SUBUNIT B), *Ralstonia solanacearum*
 2073552:catechol, 1-carboxy-3-chloro-3,4-dihydroxycyclohexa-1,5-diene dehydrogenase, *Comamonas*
 4106790:catechol, catechol 2,3-dioxygenase, synthetic construct
 10637971:chlorocyclic acid, putative tautomerase, *Pseudomonas pavonaceae*
 151636:limon, monooxygenase, *Pseudomonas* sp.
 12054950:limonene, limonene monooxygenase, *Rhodococcus erythronolis*
 3724167:benzoate, cyclohexa-1,5-diene-1-carboxyl-CoA hydratase, *Thaera aromatica*
 11967276:catechol, unknown, *Ralstonia eutropha*
 FW010274B:dsr, lab clone
 458943:exm, PoxInCytosolic exopolymorphatase, *Saccharomyces cerevisiae*
 151430:catechol, protocatechuate 3,4-dioxygenase beta subunit (EC 1.13.11.3), *Burkholderiacepacia*
 2463459:hydroxybenzoate, 4-hydroxybenzoyl-CoA reductase alpha-subunit, *Thaera aromatica*
 397158:narB, nitrate reductase, *Synechococcus* sp.
 M300308B:dsr, lab clone
 FW005271B:dsr, lab clone
 3127057:Tolene, TutD, *Thaera aromatica*
 F01A30029:am0A, environmental clone
 666885:endoarucan, endoarucanase 3, *Fibrobacter intestinalis*
 5209338:catechol, succinyl CoA:3-oxoadipate CoA transferase beta subunit, *PcaJ*, *Streptomyces* sp.
 3059183:binhenvl, 2,3-dihydroxybinhenvl 1,2-dioxygenase, *Rhodococcus erythronolis*
 17425268:binhenvl, 2-hydroxy-6-(2'-hydroxyphenyl)-6-oxohexa-2,4-dienoic acid hydrolase, *Terrabacter* sp.
 4220432:nanthalene, glutathione-S-transferase-like protein, *Ralstonia* sp. U2
 18182596:chitinase, chitinase, uncultured bacterium
 14209509:catechol, chlorocatechol 1,2-dioxygenase, *Burkholderia* sp. NK8
 14861218:catechol, PmdC, *Comamonas testosteroni*
 5209339:catechol, 3-carboxymuconate cyclisomerase, *PcaB*, *Streptomyces* sp. 2065
 1575605:catechol, 4-methyl-5-nitrocatechol oxygenase, *Burkholderia* sp. RRSC
 1730297:hydroxybenzoate, 4-hydroxybenzoyl-CoA reductase HbaB subunit, *Rhodoseudomonas palustris*
 14009571:mmo, particulate methane monooxygenase-like, uncultured bacterium gp23
 1754624:benzene, hmoB, *Pseudomonas aeruginosa*
 4741968:limon, VdcB, *Streptomyces* sp. D7
 5851793:phenol, phenol hydroxylase component, *Ralstonia* sp. KW1
 12667044:hydroxybenzoate, putative hydrolase, *Thaera aromatica*
 10174009:exm, exopolymorphatase, *Bacillus halodurans*
 6048994:catechol, 2-hydroxymuconic semialdehyde dehydrogenase, *Burkholderia* sp. RP007
 521141:catechol, protocatechuate-3,4-dioxygenase beta subunit, *Bradyrhizobium japonicum*
 586:nirS, lab clone
 13879038:limon, ferulyl-CoA synthetase, *Pseudomonas* sp. IMT40
 1905990:hydroxyphenylpropanoic acid, 3-(3-hydroxyphenyl) propionate hydroxylase; *HppA*, *Rhodococcus globerulus*
 NIRFD50473:nirS, lab clone
 13774156:metal, arsenic efflux pump protein, *Stenhylococcus aureus* subsp. *aureus* N315
 16755855:catechol, 5-carboxymethyl-2-hydroxymuconic acid isomerase, *Pseudomonas* sp. DJ-12
 W306517A:dsr, lab clone
 2239060:catechol, B-ketoadipate enol-lactone hydrolase, *Bradyrhizobium japonicum*
 3172506:phenol-TCE, putative hydroxylase component, *Ralstonia eutropha*
 2588984:nanthalene, trans-2'-carboxybenzaldehyde hydratase-aldolase, *Nocardioideis* sp.
 20142110:dsr, dissimilatory sulfite reductase alpha subunit, uncultured bacterium
 8978305:binhenvl, 2,3-dihydroxybiphenyl 1,2-dioxygenase, *Rhodococcus* sp. RHA1
 W301328A:dsr, lab clone
 4633081:methanesulfonic acid, hydroxylase beta subunit, *Methylosulfonomonas methylovora*
 1790868:toluenesulfonate, toluenesulfonate methyl-monoxygenase reductase component, *Comamonastestosteroni*
 2828015:salicylate, salicylate-5-hydroxylase large oxygenase component, *Ralstonia* sp. U2
 NKT09:nirK, lab clone
 8843719:binhenvl, BnhB, *Burkholderia* sp. TSN101
 974180:xylanase, xylanase, *Eubacterium ruminantium*
 10441629:catechol, hypothetical CdoFb, *Comamonas* sp. JS765
 1702884:catechol, 2-keto-4-nonenate hydratase, *Escherichia coli*
 18651924:cbm, ribulose-15-bisphosphate carboxylase/oxygenase, magnetite-containing magnetic vibrio
 16082328:metal, mercuric reductase related protein, *Thermoplasma acidophilum*
 7542439:benzoate, cis-diol dehydrogenase, *Pseudomonas putida*
 15384208:dibenzothione, putative monooxygenase alpha subunit, *Burkholderia* sp. DBT1
 10279673:dsr, sulfite reductase, *Desulfobrevibacterium desulfuricans*
 1771525:catechol, muconolactone isomerase, *Rhodococcus opacus*
 5531940:chlorophenol, membrane bound protein, *Desulfobacterium dehalogenans*
 3095052:metal, ArsC, *Pseudomonas aeruginosa*
 WC1:nirK, lab clone
 7649286:catechol, p-hydroxybenzoate hydroxylase, *Sarittula stellata*
 607908:catechol, muconate lactonizing enzyme, *Pseudomonas putida*
 1730295:hydroxybenzoate, 4-hydroxybenzoyl-CoA reductase HbaB subunit, *Rhodoseudomonas palustris*
 18369656:benzoate, benzoyl CoA reductase subunit, *Azoarcus evansii*
 151578:catechol, cyclisomerase II, *Pseudomonas* sp.
 21320806:FTFS, putative formyltetrahydrofolate synthetase, uncultured bacterium
 1946285:limon, reductase-subunit oxygenase, *Pseudomonas* sp.
 W306570B:dsr, lab clone
 1856979:catechol, catechol 1,2-dioxygenase, *Rhodococcus erythropolis*
 22776523:nor, nitric-oxide reductase, *Oceanobacillus ihevensis*
 15212234:organophosphate, organophosphate hydrolase, *Acrobacterium tumefaciens*
 15080890:dsr, dissimilatory sulfite reductase beta subunit, *Desulfotomaculum thermosapovorans*