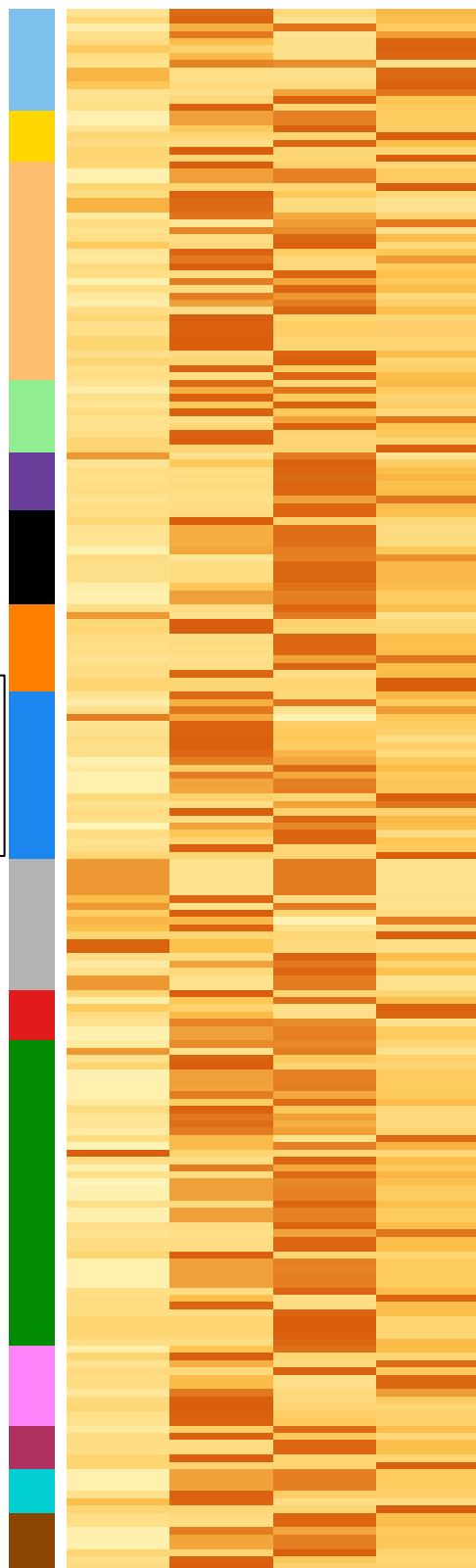
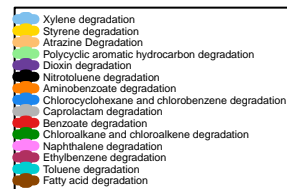
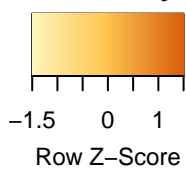


Color Key



Diesel

Xylene

Hexane

Hexadecane

E1.1.1.1, adh; alcohol dehydrogenase [EC:1.1.1.1]
frmA, ADH5, adhC; S-(hydroxymethyl)glutathione dehydrogenase / alcohol dehydrogenase [EC:1.1.1.284 1.1.1.1]
fdhA; glutathione-independent formaldehyde dehydrogenase [EC:1.2.1.46]
dehH; haloacetate dehalogenase [EC:3.8.1.3]
nifD; nitrogenase molybdenum-iron protein alpha chain [EC:1.18.6.1]
nifK; nitrogenase molybdenum-iron protein beta chain [EC:1.18.6.1]
adhP; alcohol dehydrogenase, propanol-preferring [EC:1.1.1.1]
pcaG; protocatechuate 3,4-dioxygenase, alpha subunit [EC:1.13.11.3]
E1.14.13.1; salicylate hydroxylase [EC:1.14.13.1]
desB, galA; gallate dioxygenase [EC:1.13.11.57]
nahAa, nagAa, ndoR, nbzAa, dntAa; naphthalene 1,2-dioxygenase ferredoxin reductase component [EC:1.18.1.7]
pcaG; protocatechuate 3,4-dioxygenase, alpha subunit [EC:1.13.11.3]
CYP81F; indol-3-yl-methylglucosinolate hydroxylase [EC:1.14.-.-]
atoD; acetate CoA/acetoacetate CoA-transferase alpha subunit [EC:2.8.3.8 2.8.3.9]
aes; acetyl esterase [EC:3.1.1.-]
PHO; acid phosphatase [EC:3.1.3.2]
E3.1.3.41; 4-nitrophenyl phosphatase [EC:3.1.3.41]
E3.5.1.4, amiE; amidase [EC:3.5.1.4]
acyP; acylphosphatase [EC:3.6.1.7]
aphA; acid phosphatase (class B) [EC:3.1.3.2]
vanB; vanillate monooxygenase ferredoxin subunit
badA; benzoate-CoA ligase [EC:6.2.1.25]
antB; anthranilate 1,2-dioxygenase (deaminating, decarboxylating) small subunit [EC:1.14.12.1]
E1.14.13.40; anthraniloyl-CoA monooxygenase [EC:1.14.13.40]
lglI; 2-pyrene-4,6-dicarboxylate lactonase [EC:3.1.1.57]
DHBd; 2,3-dihydroxybenzoate decarboxylase [EC:4.1.1.46]
frmA, ADH5, adhC; S-(hydroxymethyl)glutathione dehydrogenase / alcohol dehydrogenase [EC:1.1.1.284 1.1.1.1]
E1.14.13.1; salicylate hydroxylase [EC:1.14.13.1]
adhE; acetaldehyde dehydrogenase / alcohol dehydrogenase [EC:1.2.1.10 1.1.1.1]
viaY; alcohol dehydrogenase [EC:1.1.1.1]
nahAa, nagAa, ndoR, nbzAa, dntAa; naphthalene 1,2-dioxygenase ferredoxin reductase component [EC:1.18.1.7]
E1.14.13.1; salicylate hydroxylase [EC:1.14.13.1]
praC, xylH; 4-oxalocrotonate tautomerase [EC:5.3.2.6]
eutE; aldehyde dehydrogenase
mhpF; acetaldehyde dehydrogenase [EC:1.2.1.10]
xylC; benzaldehyde dehydrogenase (NAD) [EC:1.2.1.28]
sdhB, frdB; succinate dehydrogenase / fumarate reductase, iron-sulfur subunit [EC:1.3.5.1 1.3.5.4]
sdhD, frdD; succinate dehydrogenase / fumarate reductase, membrane anchor subunit
frdF; fumarate reductase iron-sulfur subunit [EC:1.3.5.4]
frdD; fumarate reductase subunit D
catB; muconate cycloisomerase [EC:5.5.1.1]
E1.1.1.90; aryl-alcohol dehydrogenase [EC:1.1.1.90]
xylC; benzaldehyde dehydrogenase (NAD) [EC:1.2.1.28]
mhpE; 4-hydroxy 2-oxovalerate aldolase [EC:4.1.3.39]
eutE; aldehyde dehydrogenase
mhpF; acetaldehyde dehydrogenase [EC:1.2.1.10]
cmtC, dnbA; 2,3-dihydroxy-p-cumate/2,3-dihydroxybenzoate 3,4-dioxygenase [EC:1.13.11.- 1.13.11.14]
E1.1.1.1, adh; alcohol dehydrogenase [EC:1.1.1.1]
ALDH; aldehyde dehydrogenase (NAD+) [EC:1.2.1.3]
ACADM, acd; acyl-CoA dehydrogenase [EC:1.3.8.7]
ACADL; long-chain-acyl-CoA dehydrogenase [EC:1.3.8.8]
hcaD; 3-phenylpropionate/trans-cinnamate dioxygenase ferredoxin reductase component [EC:1.18.1.3]
fadA, fadI; acetyl-CoA acyltransferase [EC:2.3.1.16]
fadJ; 3-hydroxyacyl-CoA dehydrogenase / enoyl-CoA hydratase / 3-hydroxybutyryl-CoA epimerase [EC:1.1.1.35 4.2.1.17 5.4.2.1]
ACSL, fadD; long-chain acyl-CoA synthetase [EC:6.2.1.3]
rubb, alkT; rubredoxin---NAD+ reductase [EC:1.18.1.1]
fadE; acyl-CoA dehydrogenase [EC:1.3.99.-]
adhP; alcohol dehydrogenase, propanol-preferring [EC:1.1.1.1]
nahAa, nagAa, ndoR, nbzAa, dntAa; naphthalene 1,2-dioxygenase ferredoxin reductase component [EC:1.18.1.7]
porB; pyruvate ferredoxin oxidoreductase beta subunit [EC:1.2.7.1]
porG; pyruvate ferredoxin oxidoreductase gamma subunit [EC:1.2.7.1]
cooF; anaerobic carbon-monoxide dehydrogenase iron sulfur subunit
cooS, acsA; anaerobic carbon-monoxide dehydrogenase catalytic subunit [EC:1.2.7.4]
coxM, cutM; aerobic carbon-monoxide dehydrogenase medium subunit [EC:1.2.5.3]
hyaB, hybC; hydrogenase large subunit [EC:1.12.99.6]
nfsA; nitroreductase [EC:1.-.-.-]
nemA; N-ethylmaleimide reductase [EC:1.-.-.-]
dsrB; dissimilatory sulfite reductase beta subunit [EC:1.8.99.5]
E3.1.1.45; carboxymethylenebutenolidase [EC:3.1.1.45]
dehH; haloacetate dehalogenase [EC:3.8.1.3]
catB; muconate cycloisomerase [EC:5.5.1.1]
paaH, hbd, fadB, mmgB; 3-hydroxybutyryl-CoA dehydrogenase [EC:1.1.1.157]
GCDH, gcdH; glutaryl-CoA dehydrogenase [EC:1.3.8.6]
pcaG; protocatechuate 3,4-dioxygenase, alpha subunit [EC:1.13.11.3]
pobA; p-hydroxybenzoate 3-monooxygenase [EC:1.14.13.2]
fadA, fadI; acetyl-CoA acyltransferase [EC:2.3.1.16]
pcaI; 3-oxoadipate CoA-transferase, alpha subunit [EC:2.8.3.6]
pcaD; 3-oxoadipate enol-lactonase [EC:3.1.1.24]
pcaC; 4-carboxymuconolactone decarboxylase [EC:4.1.1.44]
mhpE; 4-hydroxy 2-oxovalerate aldolase [EC:4.1.3.39]
praC, xylH; 4-oxalocrotonate tautomerase [EC:5.3.2.6]
catB; muconate cycloisomerase [EC:5.5.1.1]
mhpD; 2-keto-4-pentenoate hydratase [EC:4.2.1.80]
catC; muconolactone D-isomerase [EC:5.3.3.4]
adhE; acetaldehyde dehydrogenase / alcohol dehydrogenase [EC:1.2.1.10 1.1.1.1]
desB, galA; gallate dioxygenase [EC:1.13.11.57]
benA-xylX; benzoate/toluene 1,2-dioxygenase subunit alpha [EC:1.14.12.10 1.14.12.-]
benD-xylI; dihydroxycyclohexadiene carboxylate dehydrogenase [EC:1.3.1.25 1.3.1.-]
badH; 2-hydroxycyclohexanecarboxyl-CoA dehydrogenase [EC:1.1.1.-]
dmpC, xylG, praB; aminomuconate-semialdehyde/2-hydroxymuconate-6-semialdehyde dehydrogenase [EC:1.2.1.32 1.2.1.3]
lglC; 2-hydroxy-4-carboxymuconate semialdehyde hemiacetal dehydrogenase [EC:1.1.1.312]
lglI; 2-pyrene-4,6-dicarboxylate lactonase [EC:3.1.1.57]
feaB; phenylacetaldehyde dehydrogenase [EC:1.2.1.39]
HGD, hmgaA; homogentisate 1,2-dioxygenase [EC:1.13.11.5]
gctA; glutathione CoA-transferase, subunit A [EC:2.8.3.12]
E3.5.1.4, amiE; amidase [EC:3.5.1.4]
E3.5.5.7; aliphatic nitrilase [EC:3.5.5.7]
maiA, GSTZ1; maleylacetate isomerase [EC:5.2.1.2]
ytmI; uncharacterized N-acetyltransferase [EC:2.3.1.-]
mhpD; 2-keto-4-pentenoate hydratase [EC:4.2.1.80]
nahAa, nagAa, ndoR, nbzAa, dntAa; naphthalene 1,2-dioxygenase ferredoxin reductase component [EC:1.18.1.7]
ureB; urease subunit beta [EC:3.5.1.5]
atzF; allophanate hydrolase [EC:3.5.1.54]
ureAB; urease subunit gamma/beta [EC:3.5.1.5]
E3.1.1.17, gnl, RGN; gluconolactonase [EC:3.1.1.17]
fadJ; 3-hydroxyacyl-CoA dehydrogenase / enoyl-CoA hydratase / 3-hydroxybutyryl-CoA epimerase [EC:1.1.1.35 4.2.1.17 5.4.2.1]
chnB; cyclohexanone monooxygenase [EC:1.14.13.22]
aldH; NADP-dependent aldehyde dehydrogenase [EC:1.2.1.4]