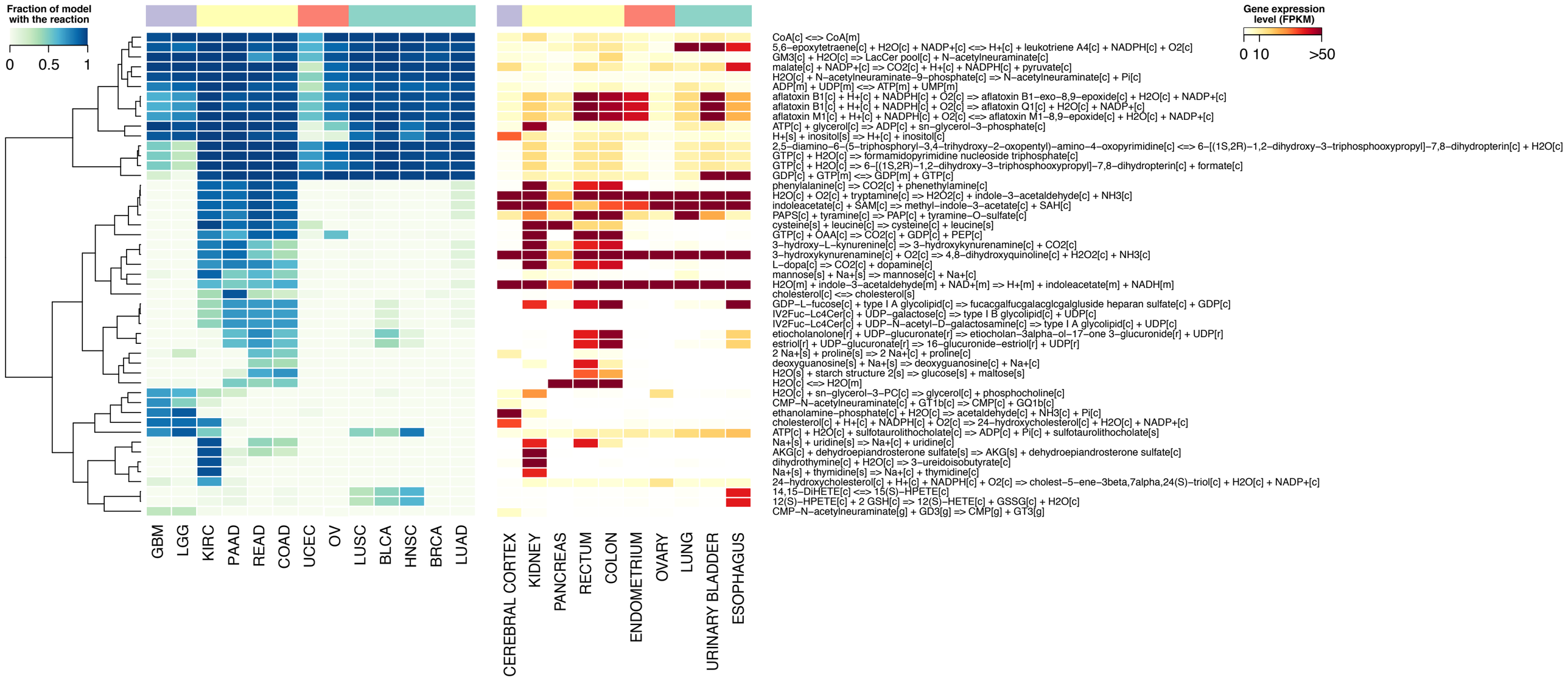
Fraction of model with the reaction
0
0.5
1
Gene expression level (FPKM)
0 10
>50
GBM
LGG
KIRC
PAAD
READ
COAD
UCEC
OV
LUSC
BLCA
HNSC
BRCA
LUAD
CEREBRAL CORTEX
KIDNEY
PANCREAS
RECTUM
COLON
ENDOMETRIUM
OVARY
LUNG
URINARY BLADDER
ESOPHAGUS
CoA[c] <=> CoA[m]
5,6−epoxytetraene[c] + H2O[c] + NADP+[c] <=> H+[c] + leukotriene A4[c] + NADPH[c] + O2[c]
GM3[c] + H2O[c] => LacCer pool[c] + N−acetylneuraminate[c]
malate[c] + NADP+[c] => CO2[c] + H+[c] + NADPH[c] + pyruvate[c]
H2O[c] + N−acetylneuraminate−9−phosphate[c] => N−acetylneuraminate[c] + Pi[c]
ADP[m] + UDP[m] <=> ATP[m] + UMP[m]
aflatoxin B1[c] + H+[c] + NADPH[c] + O2[c] => aflatoxin B1−exo−8,9−epoxide[c] + H2O[c] + NADP+[c]
aflatoxin B1[c] + H+[c] + NADPH[c] + O2[c] => aflatoxin Q1[c] + H2O[c] + NADP+[c]
aflatoxin M1[c] + H+[c] + NADPH[c] + O2[c] <=> aflatoxin M1−8,9−epoxide[c] + H2O[c] + NADP+[c]
ATP[c] + glycerol[c] => ADP[c] + sn−glycerol−3−phosphate[c]
H+[s] + inositol[s] => H+[c] + inositol[c]
2,5−diamino−6−(5−triphosphoryl−3,4−trihydroxy−2−oxopentyl)−amino−4−oxopyrimidine[c] <=> 6−[(1S,2R)−1,2−dihydroxy−3−triphosphooxypropyl]−7,8−dihydropterin[c] + H2O[c]
GTP[c] + H2O[c] => formamidopyrimidine nucleoside triphosphate[c]
GTP[c] + H2O[c] => 6−[(1S,2R)−1,2−dihydroxy−3−triphosphooxypropyl]−7,8−dihydropterin[c] + formate[c]
GDP[c] + GTP[m] <=> GDP[m] + GTP[c]
phenylalanine[c] => CO2[c] + phenethylamine[c]
H2O[c] + O2[c] + tryptamine[c] => H2O2[c] + indole−3−acetaldehyde[c] + NH3[c]
indoleacetate[c] + SAM[c] => methyl−indole−3−acetate[c] + SAH[c]
PAPS[c] + tyramine[c] => PAP[c] + tyramine−O−sulfate[c]
cysteine[s] + leucine[c] => cysteine[c] + leucine[s]
GTP[c] + OAA[c] => CO2[c] + GDP[c] + PEP[c]
3−hydroxy−L−kynurenine[c] => 3−hydroxykynurenamine[c] + CO2[c]
3−hydroxykynurenamine[c] + O2[c] => 4,8−dihydroxyquinoline[c] + H2O2[c] + NH3[c]
L−dopa[c] => CO2[c] + dopamine[c]
mannose[s] + Na+[s] => mannose[c] + Na+[c]
H2O[m] + indole−3−acetaldehyde[m] + NAD+[m] => H+[m] + indoleacetate[m] + NADH[m]
cholesterol[c] <=> cholesterol[s]
GDP−L−fucose[c] + type I A glycolipid[c] => fucacgalfucgalacglcgalgluside heparan sulfate[c] + GDP[c]
IV2Fuc−Lc4Cer[c] + UDP−galactose[c] => type I B glycolipid[c] + UDP[c]
IV2Fuc−Lc4Cer[c] + UDP−N−acetyl−D−galactosamine[c] => type I A glycolipid[c] + UDP[c]
etiocholanolone[r] + UDP−glucuronate[r] => etiocholan−3alpha−ol−17−one 3−glucuronide[r] + UDP[r]
estriol[r] + UDP−glucuronate[r] => 16−glucuronide−estriol[r] + UDP[r]
2 Na+[s] + proline[s] => 2 Na+[c] + proline[c]
deoxyguanosine[s] + Na+[s] => deoxyguanosine[c] + Na+[c]
H2O[s] + starch structure 2[s] => glucose[s] + maltose[s]
H2O[c] <=> H2O[m]
H2O[c] + sn−glycerol−3−PC[c] => glycerol[c] + phosphocholine[c]
CMP−N−acetylneuraminate[c] + GT1b[c] => CMP[c] + GQ1b[c]
ethanolamine−phosphate[c] + H2O[c] => acetaldehyde[c] + NH3[c] + Pi[c]
cholesterol[c] + H+[c] + NADPH[c] + O2[c] => 24−hydroxycholesterol[c] + H2O[c] + NADP+[c]
ATP[c] + H2O[c] + sulfotaurolithocholate[c] => ADP[c] + Pi[c] + sulfotaurolithocholate[s]
Na+[s] + uridine[s] => Na+[c] + uridine[c]
AKG[c] + dehydroepiandrosterone sulfate[s] => AKG[s] + dehydroepiandrosterone sulfate[c]
dihydrothymine[c] + H2O[c] => 3−ureidoisobutyrate[c]
Na+[s] + thymidine[s] => Na+[c] + thymidine[c]
24−hydroxycholesterol[c] + H+[c] + NADPH[c] + O2[c] => cholest−5−ene−3beta,7alpha,24(S)−triol[c] + H2O[c] + NADP+[c]
14,15−DiHETE[c] <=> 15(S)−HPETE[c]
12(S)−HPETE[c] + 2 GSH[c] => 12(S)−HETE[c] + GSSG[c] + H2O[c]
CMP−N−acetylneuraminate[g] + GD3[g] => CMP[g] + GT3[g]