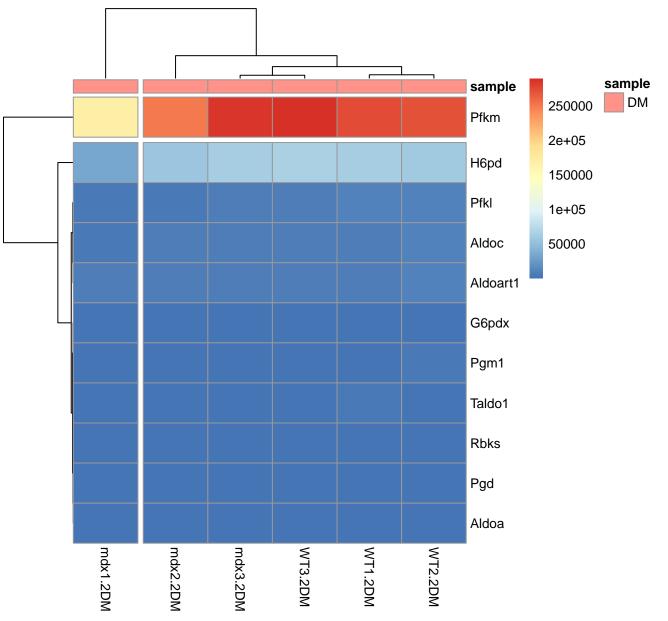
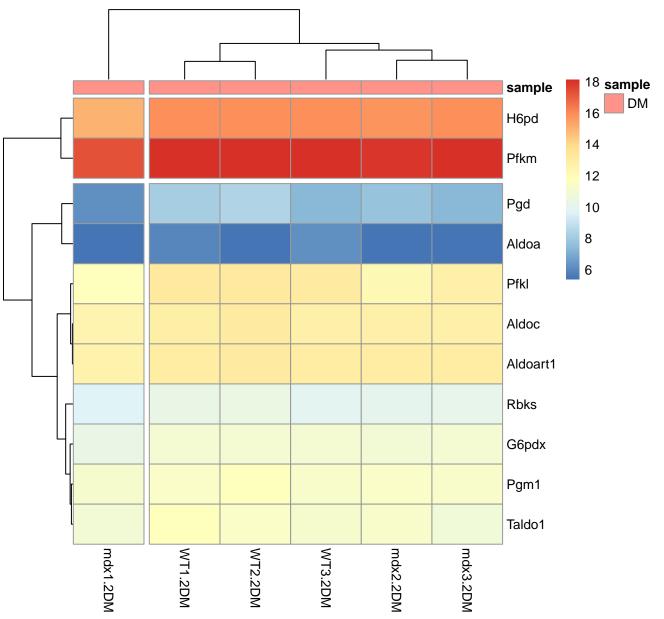
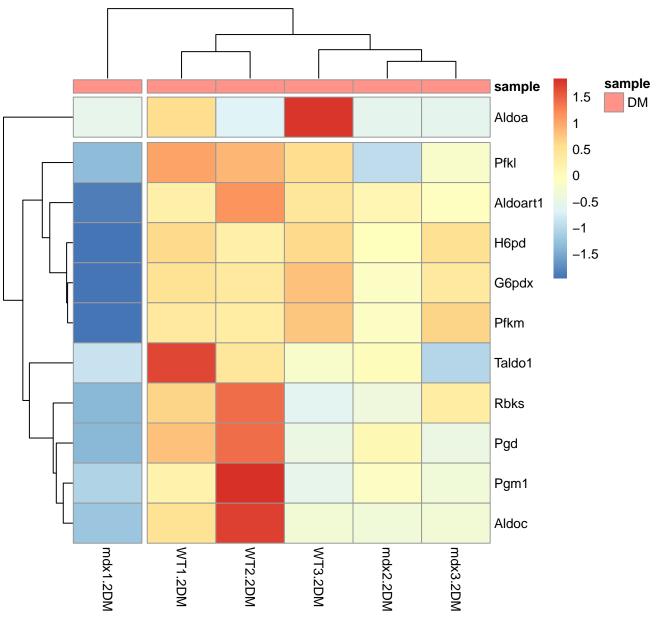
Expressed Matrix from Normalized for genes in KEGG_PENTOSE_PHOSPHATE_PATHWAY



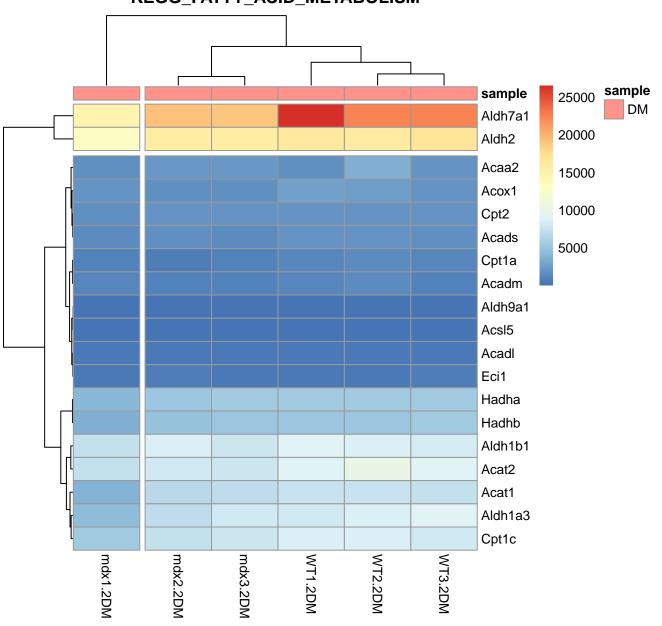
Expressed Matrix for genes active in KEGG_PENTOSE_PHOSPHATE_PATHWAY



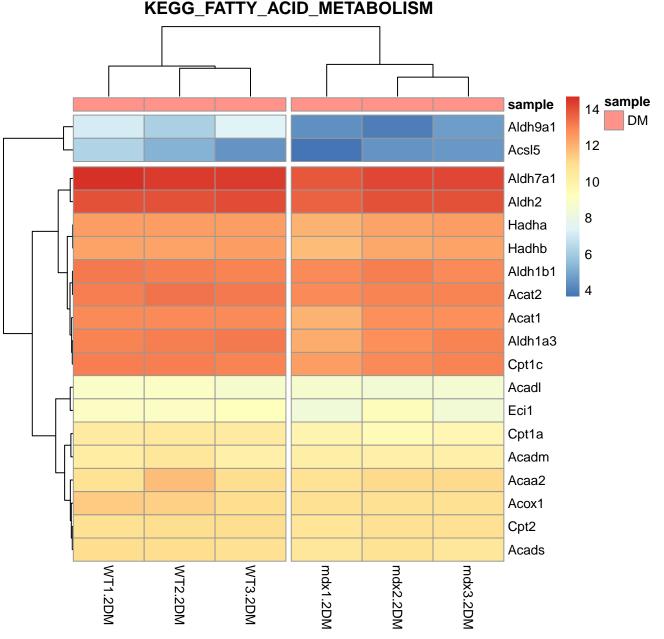
Scalling expressed matrix for genes active in KEGG_PENTOSE_PHOSPHATE_PATHWAY



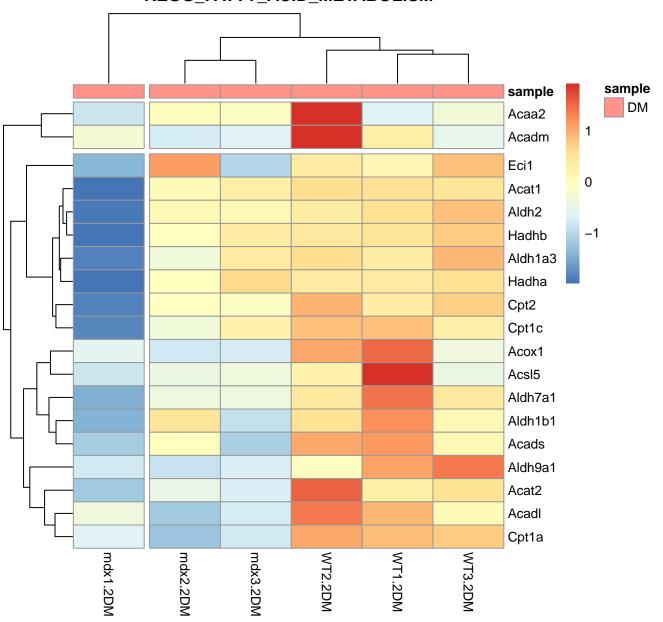
Expressed Matrix from Normalized for genes in KEGG_FATTY_ACID_METABOLISM



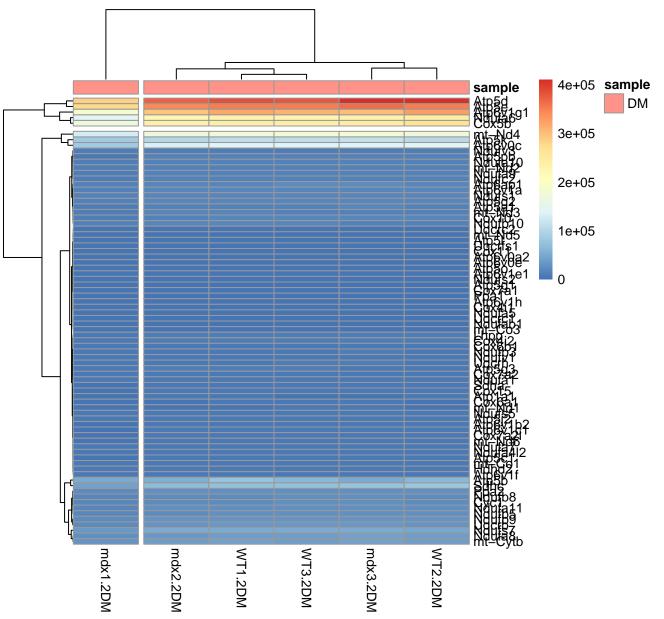
Expressed Matrix for genes active in KEGG_FATTY_ACID_METABOLISM



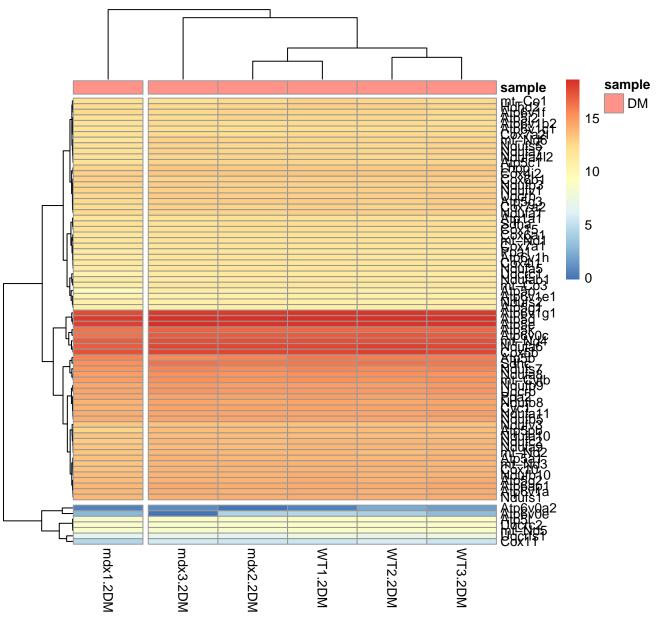
Scalling expressed matrix for genes active in KEGG_FATTY_ACID_METABOLISM



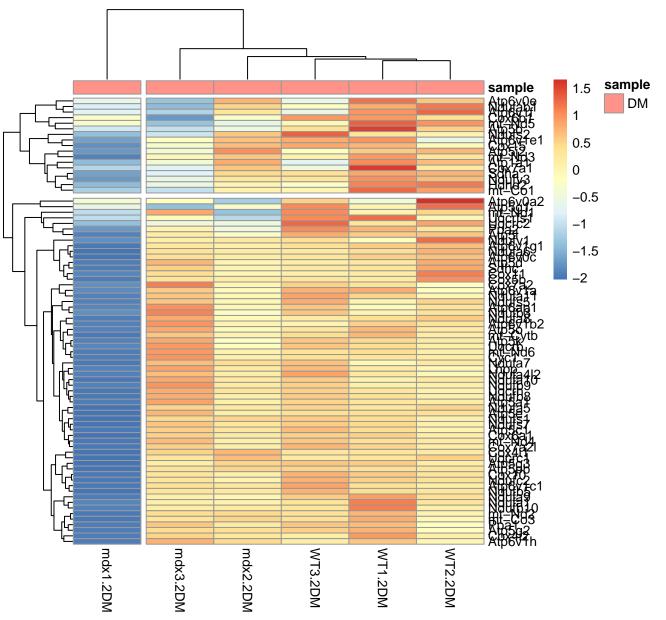
Expressed Matrix from Normalized for genes in KEGG_OXIDATIVE_PHOSPHORYLATION



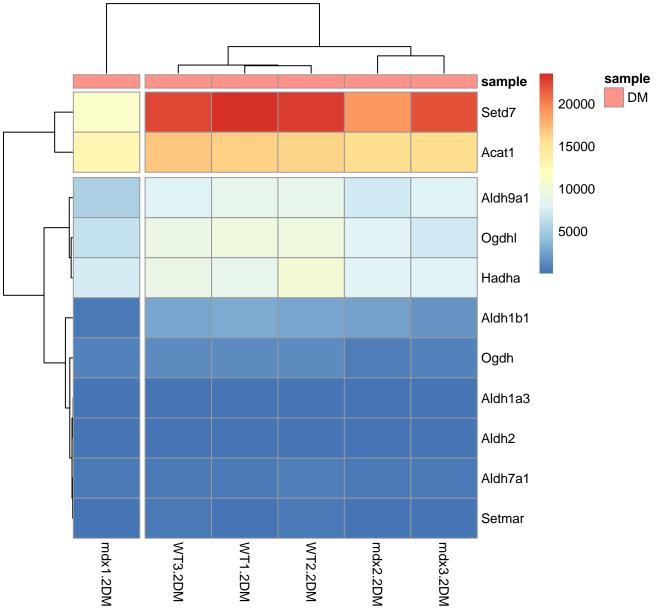
Expressed Matrix for genes active in KEGG_OXIDATIVE_PHOSPHORYLATION



Scalling expressed matrix for genes active in KEGG_OXIDATIVE_PHOSPHORYLATION

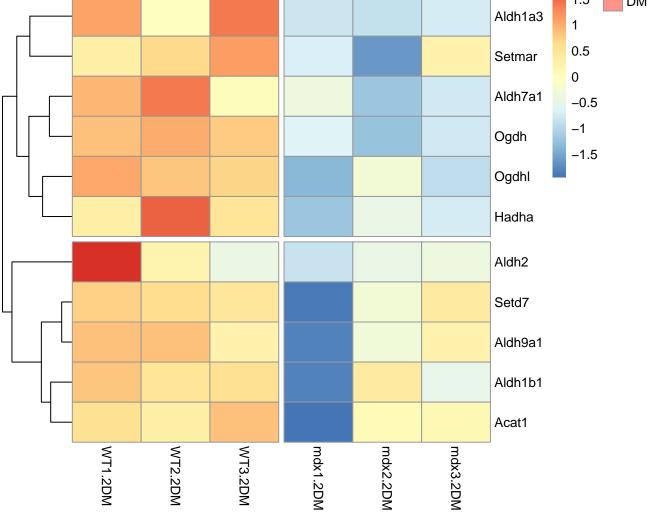


Expressed Matrix from Normalized for genes in KEGG_LYSINE_DEGRADATION

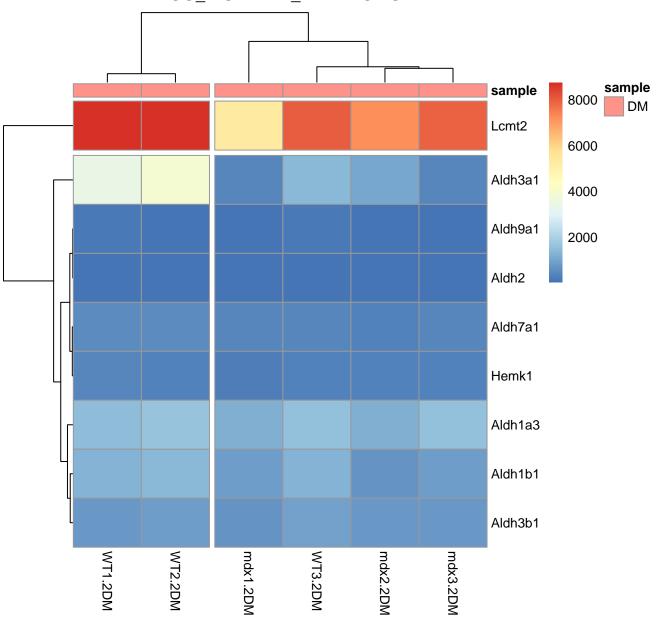


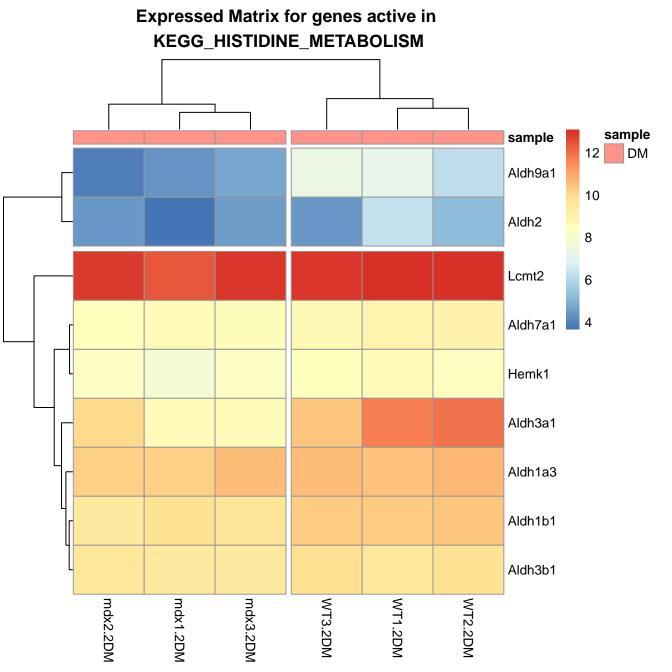
Expressed Matrix for genes active in KEGG_LYSINE_DEGRADATION 14 sample sample DM Aldh9a1 12 Ogdhl 10 Hadha 8 6 Setd7 Acat1 Aldh1a3 Aldh2 Aldh7a1 Setmar Aldh1b1 Ogdh WT2.2DM WT3.2DM mdx3.2DM mdx1.2DM mdx2.2DM

Scalling expressed matrix for genes active in **KEGG_LYSINE_DEGRADATION** sample sample 1.5 DM Aldh1a3 1 0.5 Setmar 0 Aldh7a1 -0.5 -1 Ogdh -1.5 Ogdhl Hadha Aldh2 Setd7 Aldh9a1 Aldh1b1



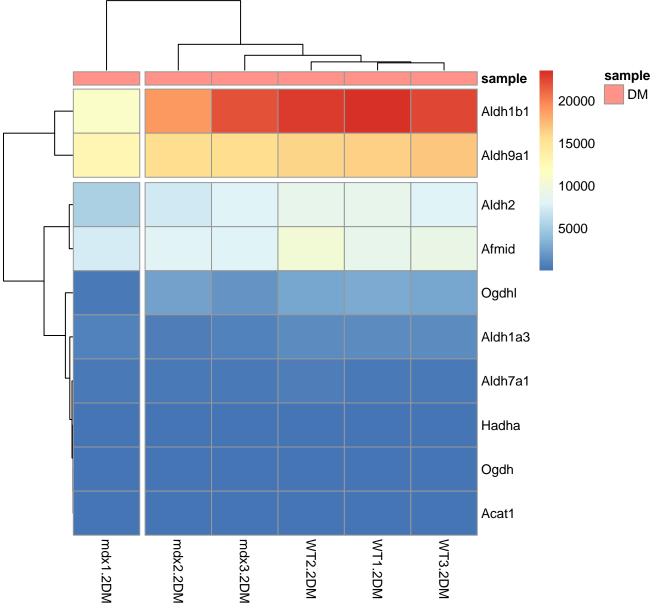
Expressed Matrix from Normalized for genes in KEGG_HISTIDINE_METABOLISM



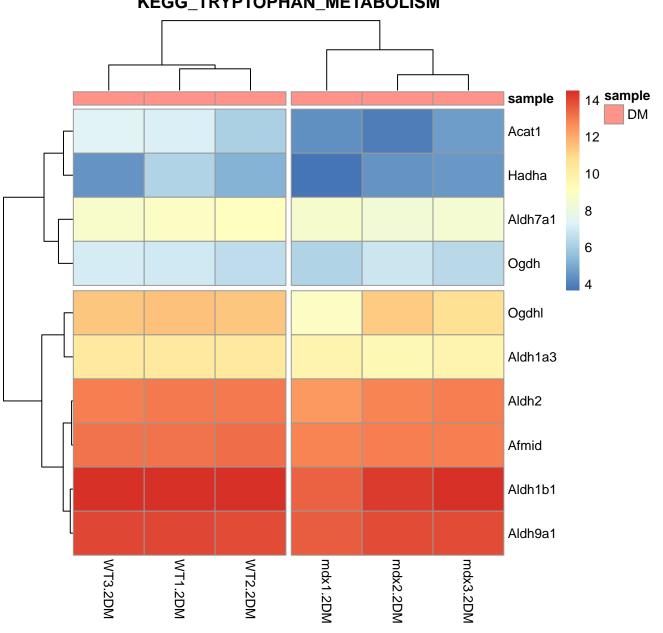


Scalling expressed matrix for genes active in **KEGG_HISTIDINE_METABOLISM** sample sample 1.5 DM Aldh2 1 0.5 Hemk1 0 -0.5 Aldh3b1 -1 -1.5Aldh9a1 Aldh3a1 Aldh7a1 Aldh1b1 Aldh1a3 Lcmt2 mdx1.2DM WT1.2DM mdx2.2DM mdx3.2DM

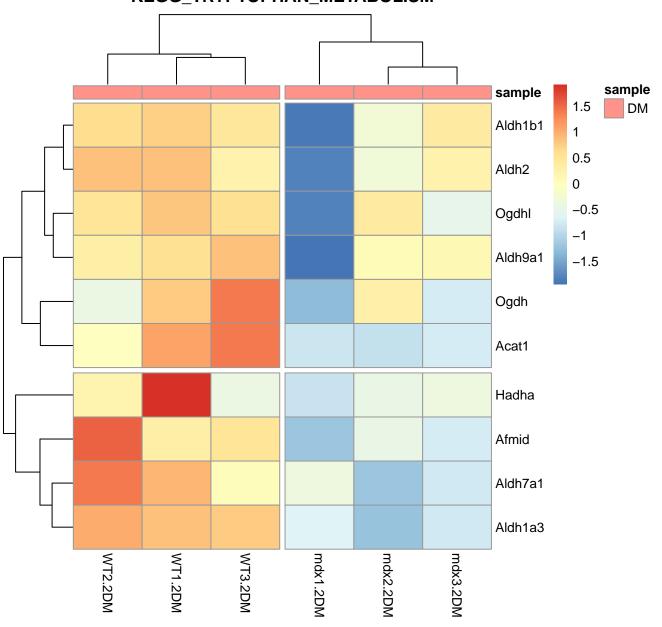
Expressed Matrix from Normalized for genes in KEGG_TRYPTOPHAN_METABOLISM



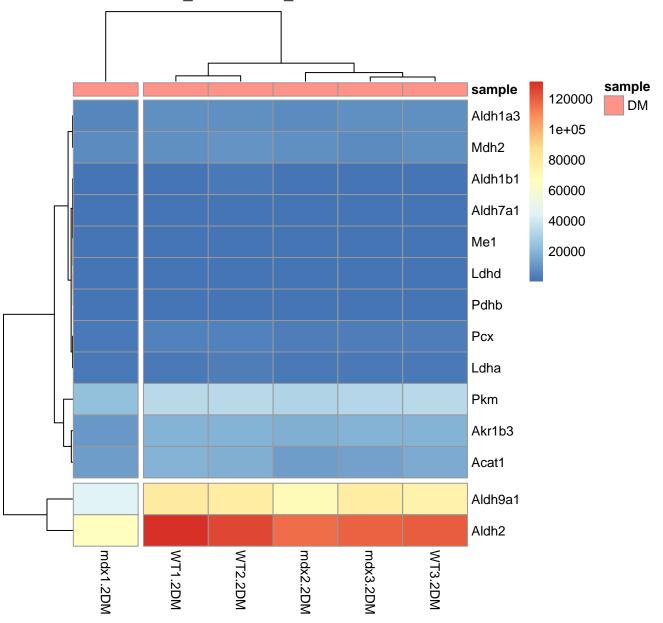
Expressed Matrix for genes active in KEGG_TRYPTOPHAN_METABOLISM



Scalling expressed matrix for genes active in KEGG_TRYPTOPHAN_METABOLISM

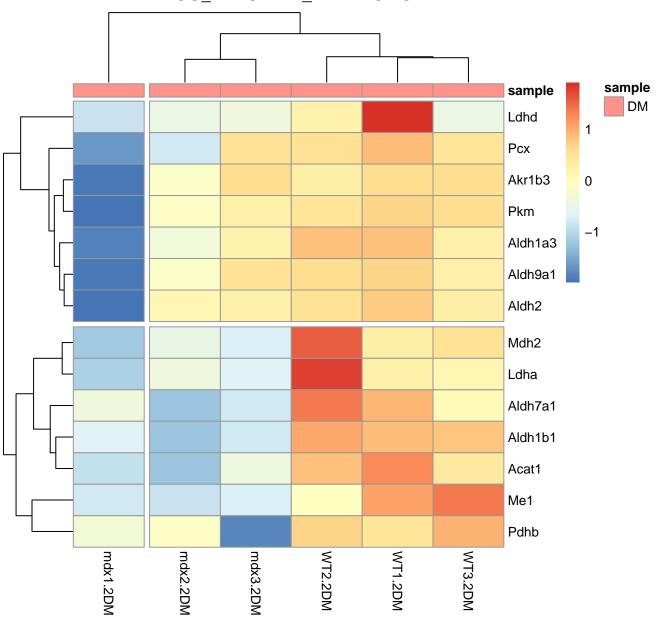


Expressed Matrix from Normalized for genes in KEGG_PYRUVATE_METABOLISM

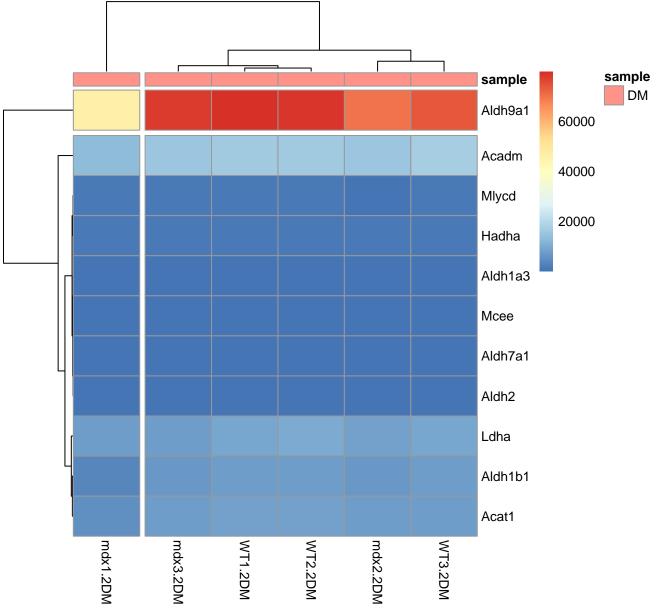


Expressed Matrix for genes active in KEGG_PYRUVATE_METABOLISM sample sample 16 DM Ldhd 14 Me1 12 Pdhb 10 Aldh9a1 8 Aldh2 6 Pkm Akr1b3 Acat1 Aldh7a1 Aldh1b1 Aldh1a3 Mdh2 Pcx Ldha WT2.2DM WT3.2DM mdx1.2DM mdx2.2DM mdx3.2DM

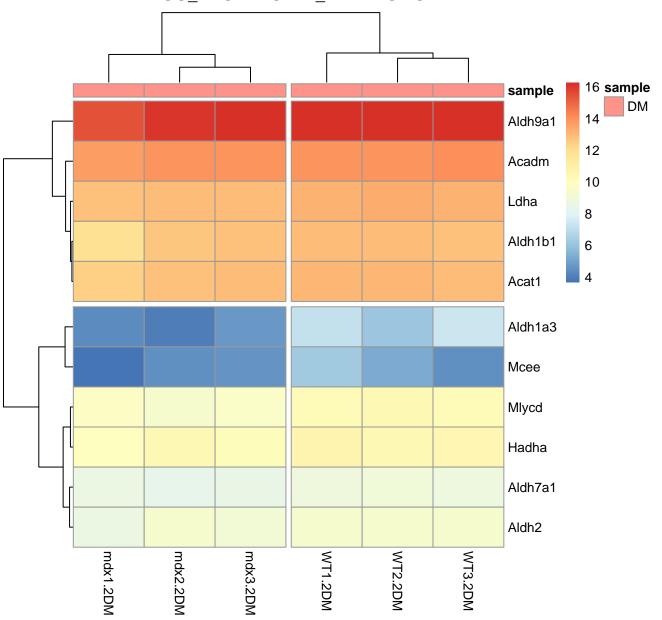
Scalling expressed matrix for genes active in KEGG_PYRUVATE_METABOLISM



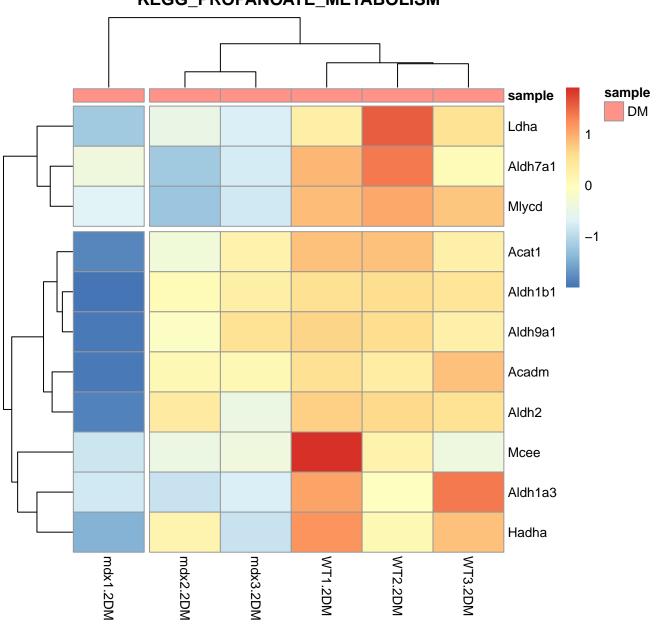
Expressed Matrix from Normalized for genes in KEGG_PROPANOATE_METABOLISM



Expressed Matrix for genes active in KEGG_PROPANOATE_METABOLISM



Scalling expressed matrix for genes active in KEGG_PROPANOATE_METABOLISM



Expressed Matrix from Normalized for genes in KEGG_BUTANOATE_METABOLISM sample sample DM Hmgcl 15000 Acads 10000 Aldh9a1 5000 Aldh1b1 Aldh7a1 Aldh1a3 Acat1 Hadha Pdhb Aldh2 Bdh2

mdx2.2DM

mdx3.2DM

mdx1.2DM

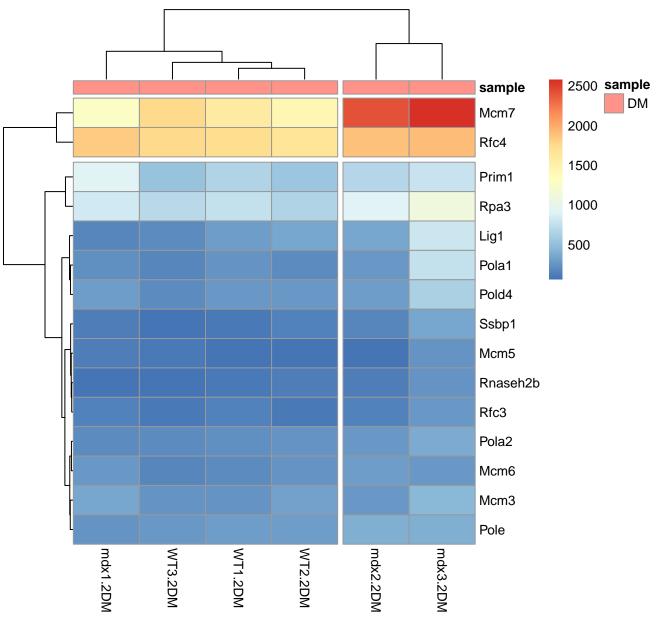
WT2.2DM

WT1.2DM

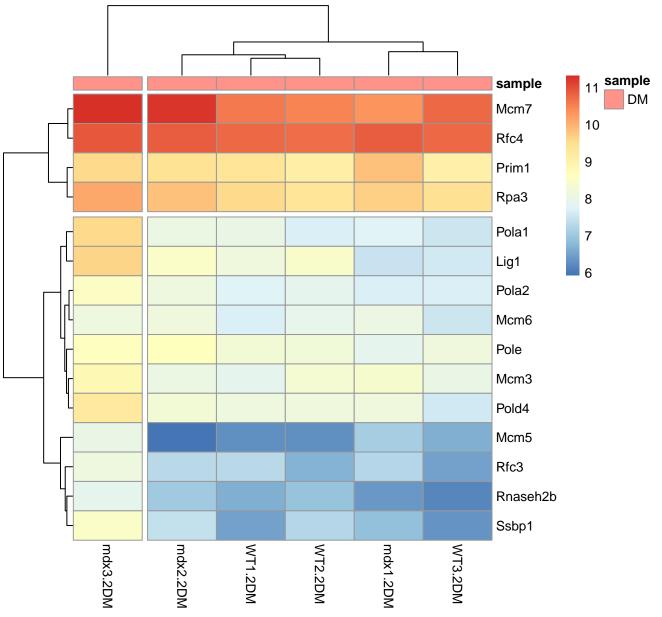
Expressed Matrix for genes active in KEGG_BUTANOATE_METABOLISM 14 sample sample DM Aldh1a3 12 Acat1 10 8 Hadha 6 Hmgcl Acads Pdhb Aldh2 Bdh2 Aldh7a1 Aldh1b1 Aldh9a1 WT3.2DM WT1.2DM WT2.2DM mdx1.2DM mdx2.2DM mdx3.2DM

Scalling expressed matrix for genes active in **KEGG_BUTANOATE_METABOLISM** sample sample DM Acat1 1 Aldh7a1 0 Aldh1b1 -1 Aldh9a1 Bdh2 Aldh2 Hmgcl Acads Pdhb Aldh1a3 Hadha WT1.2DM WT3.2DM WT2.2DM mdx1.2DM mdx2.2DM mdx3.2DM

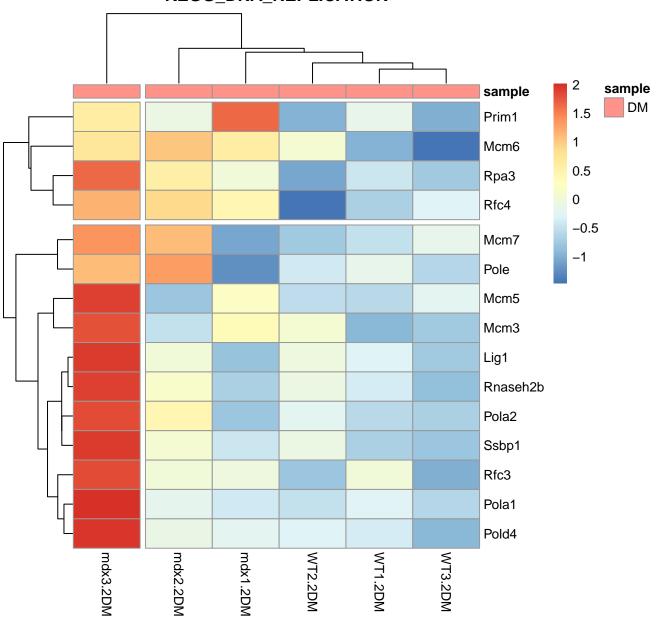
Expressed Matrix from Normalized for genes in KEGG_DNA_REPLICATION



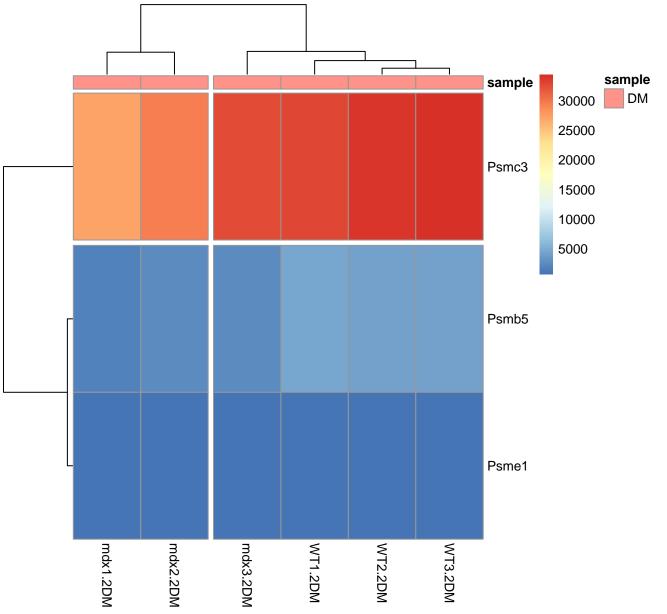
Expressed Matrix for genes active in KEGG_DNA_REPLICATION

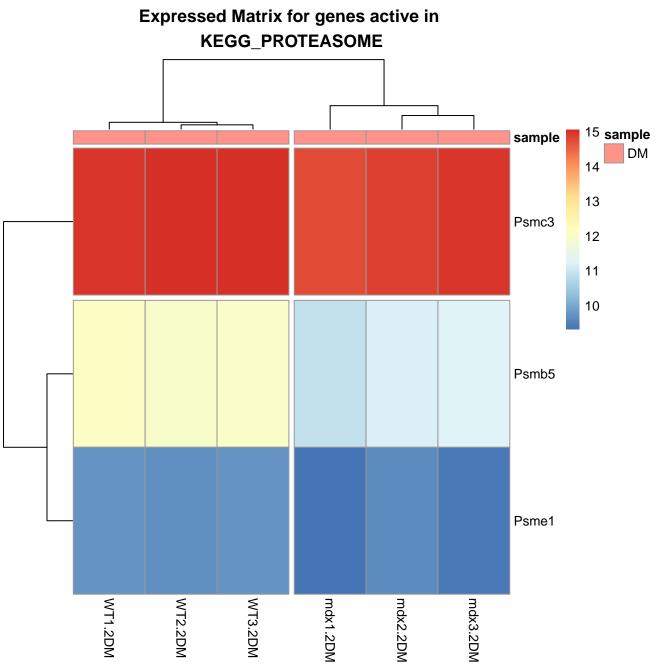


Scalling expressed matrix for genes active in KEGG_DNA_REPLICATION



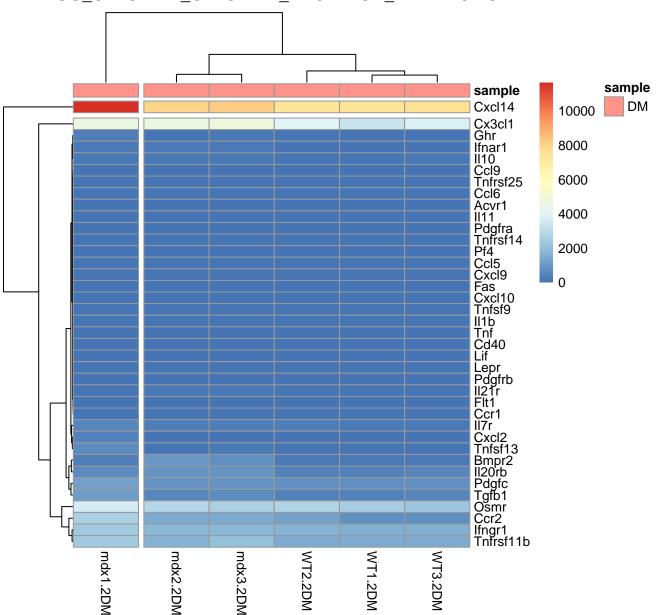
Expressed Matrix from Normalized for genes in KEGG_PROTEASOME



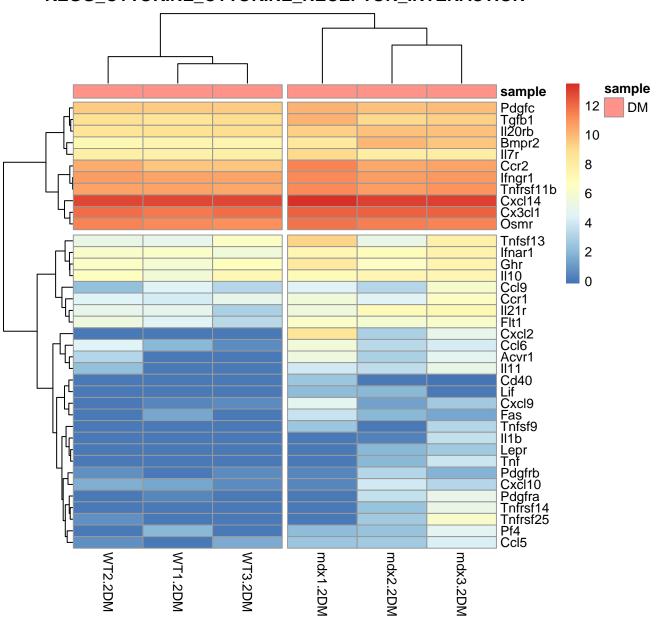


Scalling expressed matrix for genes active in KEGG_PROTEASOME sample sample DM 0.5 0 Psmc3 -0.5-1 -1.5 Psmb5 Psme1 WT1.2DM WT2.2DM WT3.2DM mdx2.2DM mdx3.2DM mdx1.2DM

Expressed Matrix from Normalized for genes in KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION

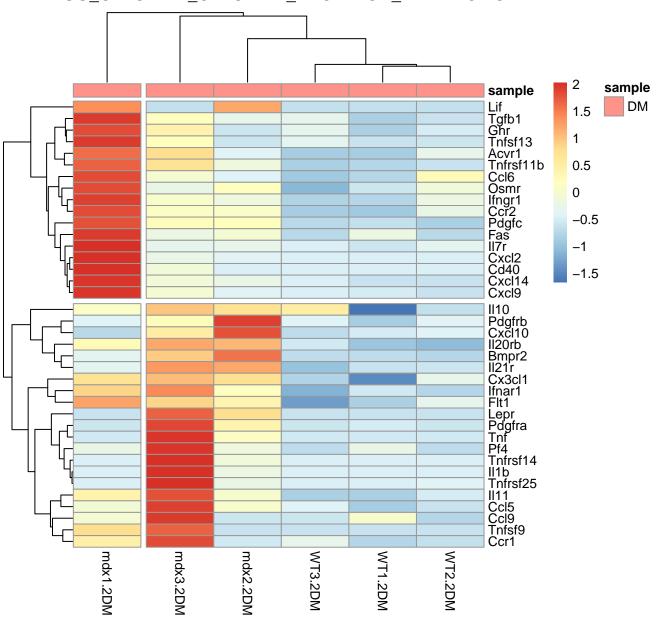


Expressed Matrix for genes active in KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION

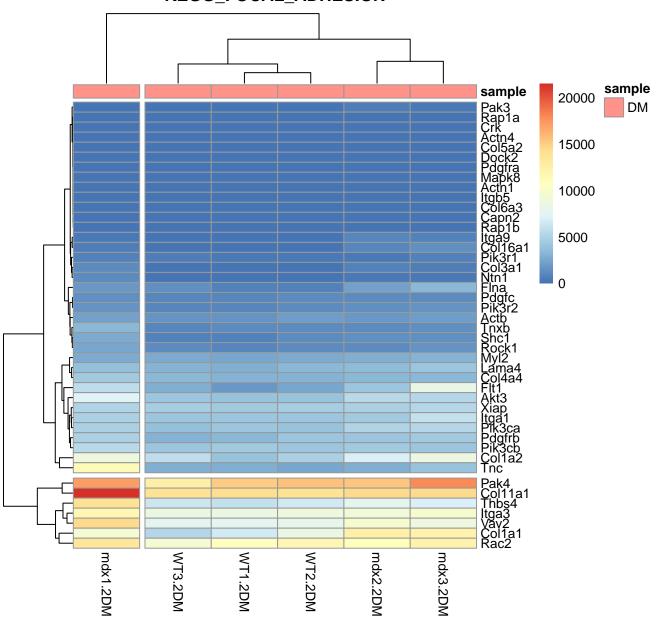


Scalling expressed matrix for genes active in

KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION



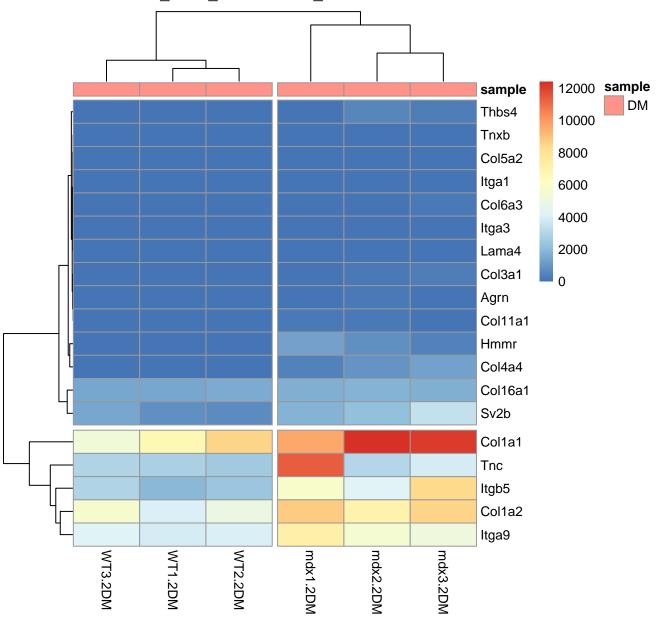
Expressed Matrix from Normalized for genes in KEGG_FOCAL_ADHESION



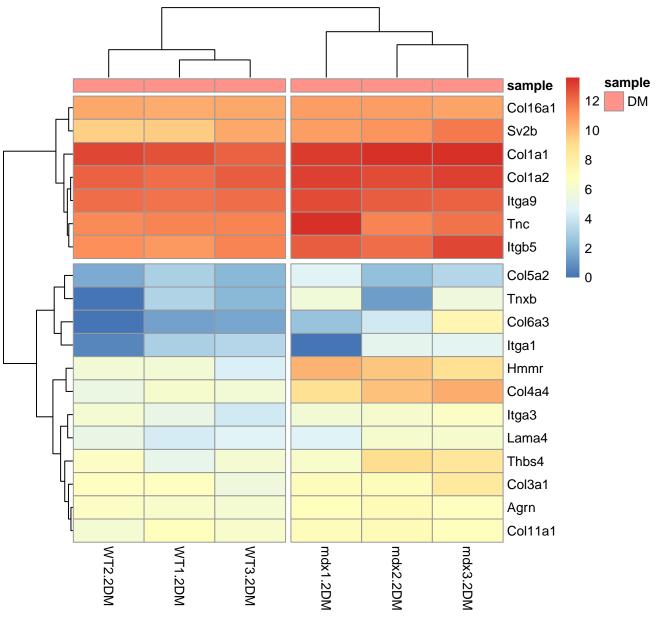
Expressed Matrix for genes active in KEGG_FOCAL_ADHESION 14 sample sample DM 10 8 6 4 2 0 Col5a2 Crk Pdgfra Mapk8 Actn4 Actn1 Dock2 Itgb5 Capn2 Rap1b Ntn1 Pik3r1 Itga9 Col3a1 Col16a1 Pak3 Rap1a

Scalling expressed matrix for genes active in **KEGG_FOCAL_ADHESION** 2 sample sample Col1a2 Lama4 Xiap Pik3r1 Crk Itgb5 Rac2 Pdgfrb Actb Col3a1 Actb Col3a1 Pdgfc Col3a2 Pdgfc Col3a2 Pdgfc Col3a2 Tnxb Col1a1 Tnc Ntn1 DM 1.5 1 0.5 0 -0.5-1 -1.5 Itga3 Rock1 Col4a4 Thbs4 Vav2 Rap1a Col1a1 Capn2 Pak4 Pik3ca Pik3r2 Col6a3 Myl2 Actn4 Pak3 Itga9 Dock2 Fina Col16a1 Actn1 Mapk8 Mapk8 Itga1 Fit1 WT2.2DN mdx1.2DM mdx2.2DM

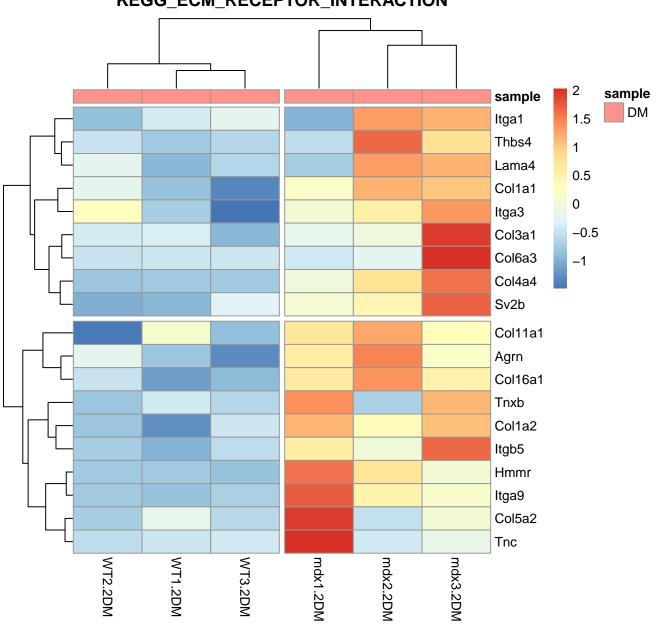
Expressed Matrix from Normalized for genes in KEGG_ECM_RECEPTOR_INTERACTION



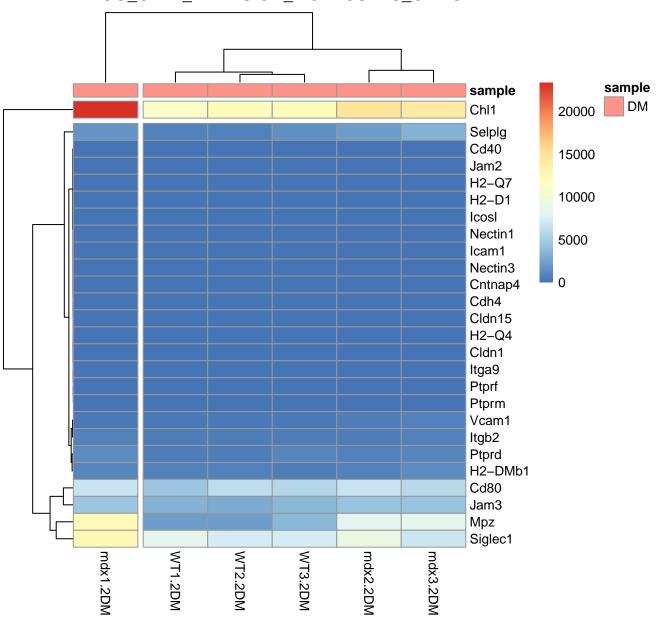
Expressed Matrix for genes active in KEGG_ECM_RECEPTOR_INTERACTION



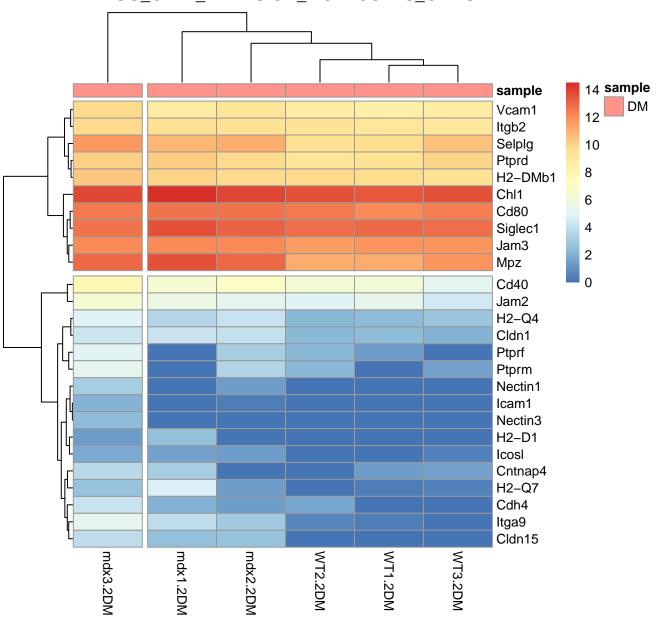
Scalling expressed matrix for genes active in KEGG_ECM_RECEPTOR_INTERACTION



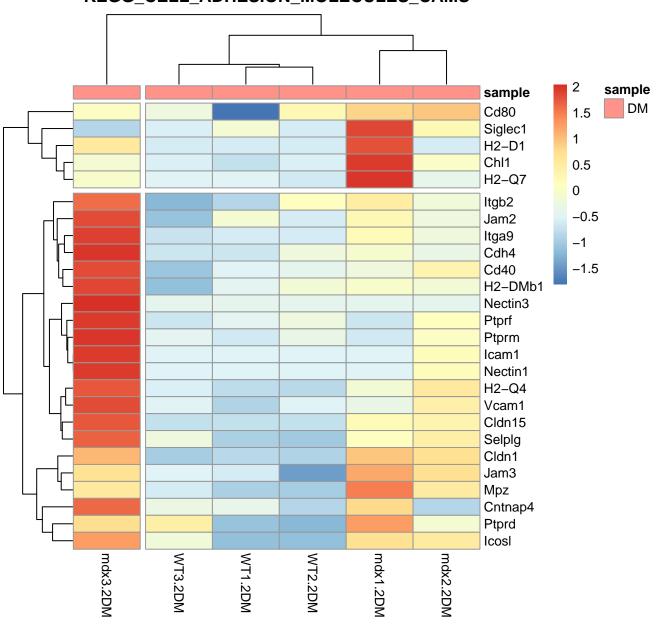
Expressed Matrix from Normalized for genes in KEGG_CELL_ADHESION_MOLECULES_CAMS



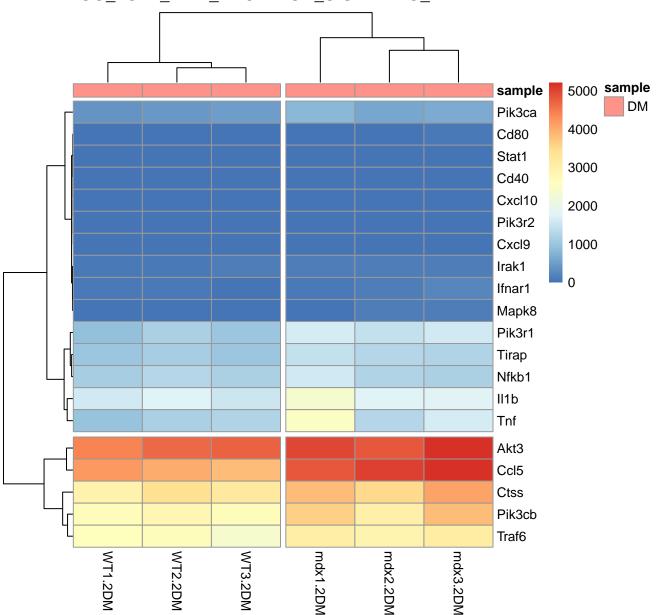
Expressed Matrix for genes active in KEGG_CELL_ADHESION_MOLECULES_CAMS



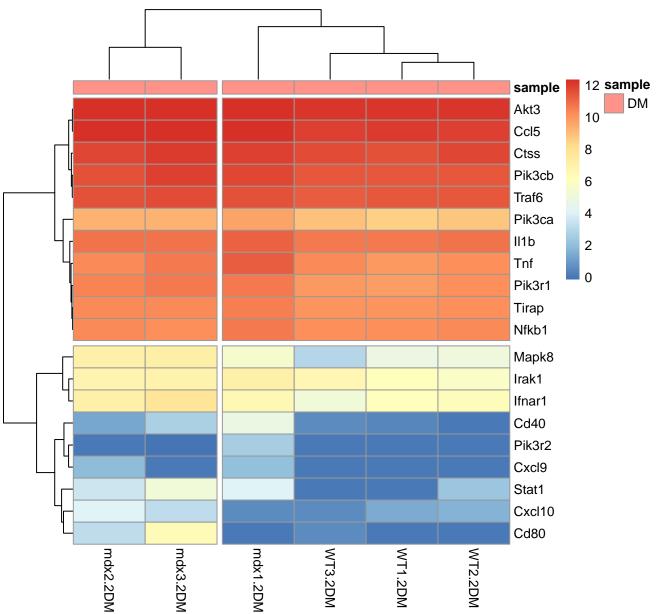
Scalling expressed matrix for genes active in KEGG_CELL_ADHESION_MOLECULES_CAMS



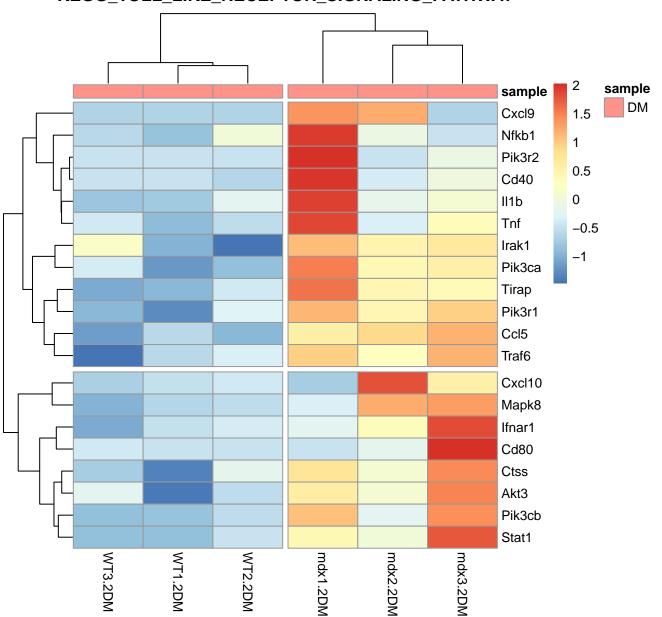
Expressed Matrix from Normalized for genes in KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY



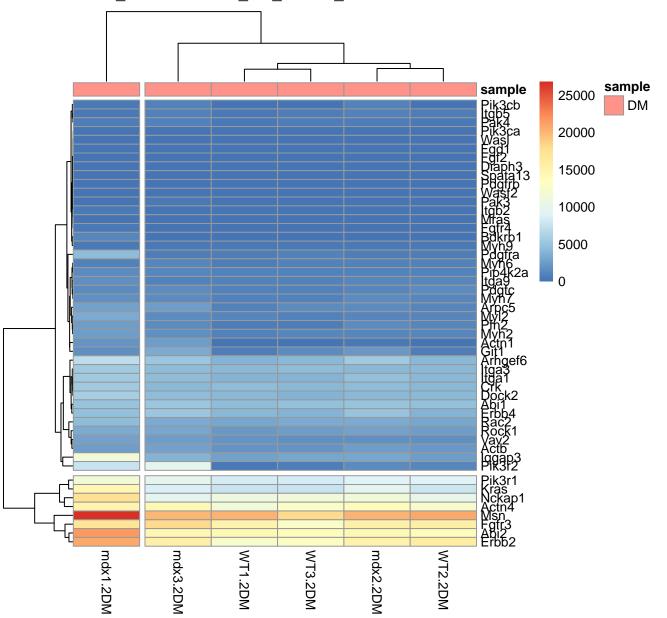
Expressed Matrix for genes active in KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY



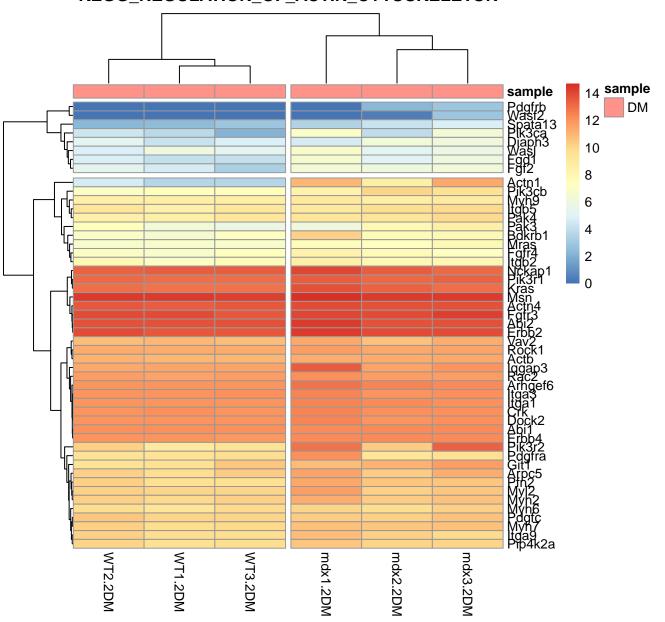
Scalling expressed matrix for genes active in KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY



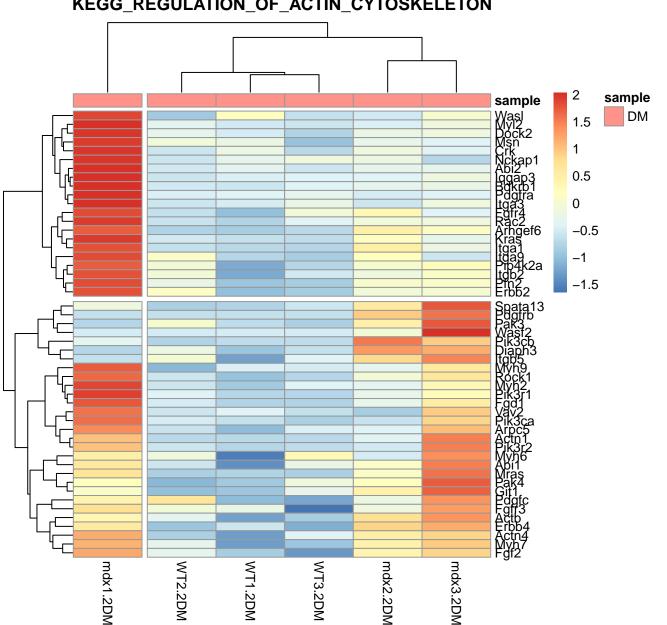
Expressed Matrix from Normalized for genes in KEGG_REGULATION_OF_ACTIN_CYTOSKELETON



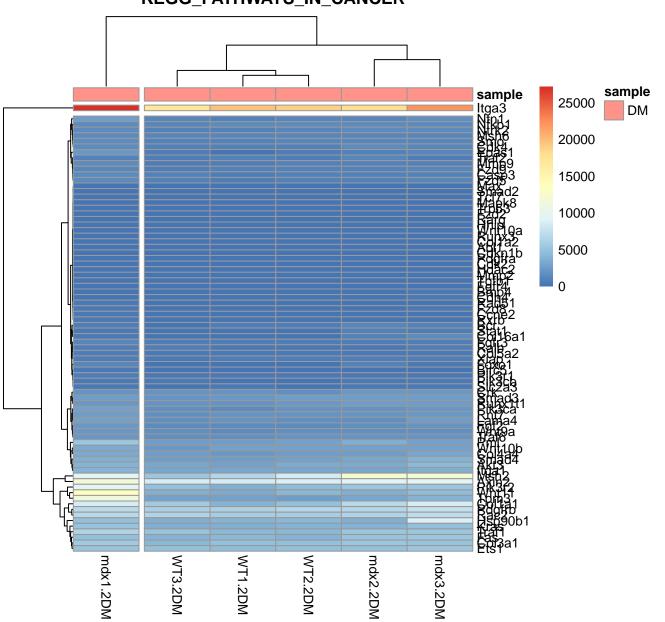
Expressed Matrix for genes active in KEGG_REGULATION_OF_ACTIN_CYTOSKELETON



Scalling expressed matrix for genes active in KEGG_REGULATION_OF_ACTIN_CYTOSKELETON



Expressed Matrix from Normalized for genes in KEGG_PATHWAYS_IN_CANCER



Expressed Matrix for genes active in KEGG_PATHWAYS_IN_CANCER 14 sample sample DM 12 10 8 6 4 2 mdx1.2DM mdx2.2DM mdx3.2DM

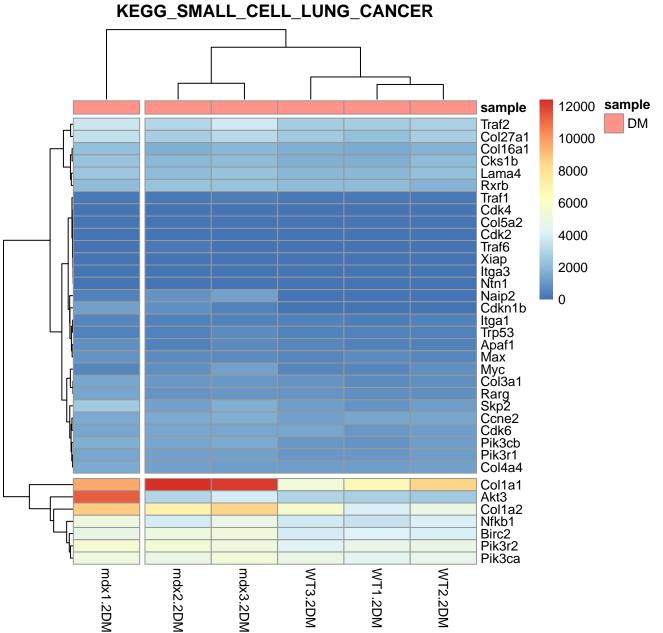
Scalling expressed matrix for genes active in KEGG_PATHWAYS_IN_CANCER 2 sample sample DM 1.5 1 0.5 0 -0.5 -1 -1.5

mdx1.2DM

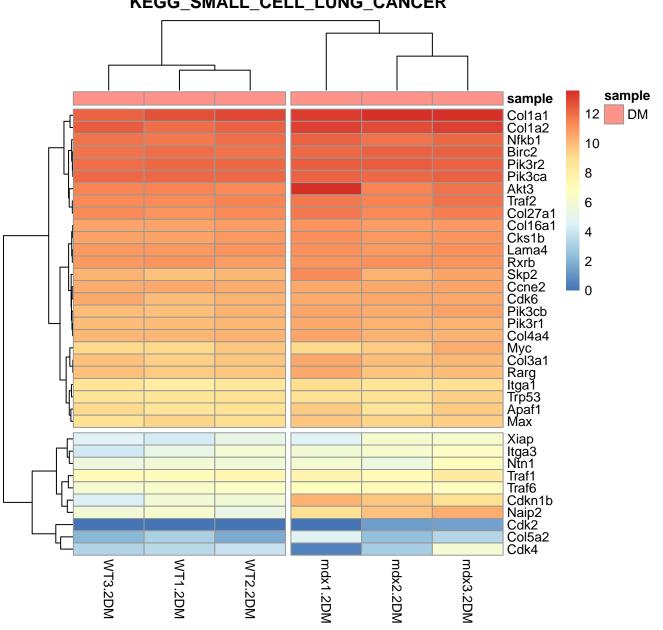
WT2.2DM

mdx2.2DM

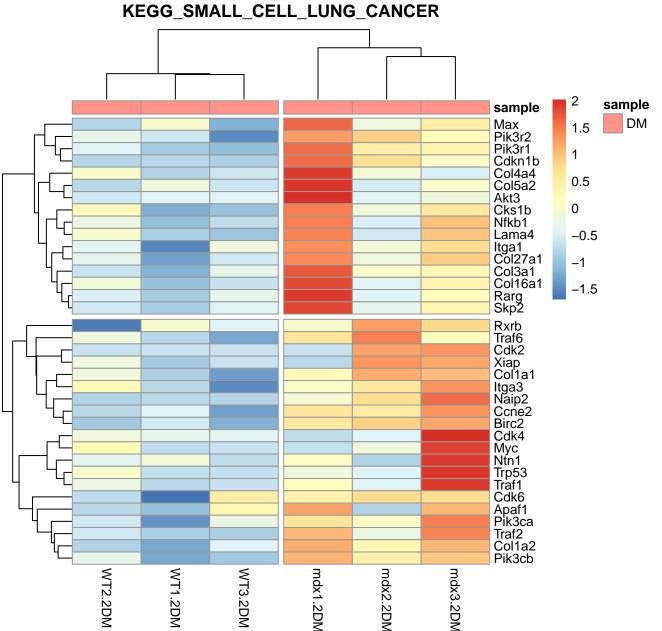
Expressed Matrix from Normalized for genes in



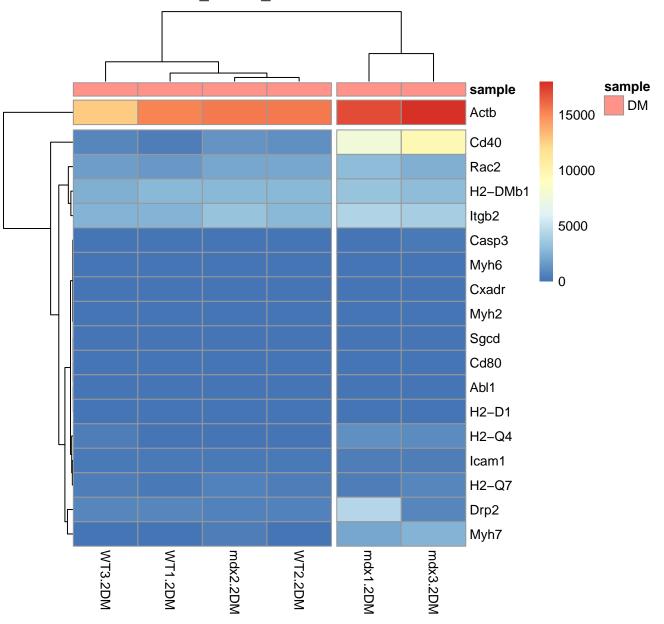
Expressed Matrix for genes active in KEGG_SMALL_CELL_LUNG_CANCER



Scalling expressed matrix for genes active in



Expressed Matrix from Normalized for genes in KEGG_VIRAL_MYOCARDITIS



Expressed Matrix for genes active in KEGG_VIRAL_MYOCARDITIS 14 sample sample DM Myh6 Myh2 10 Cd80 8 Abl1 6 H2-D1 4 Cxadr 2 Sgcd 0 Myh7 Casp3 H2-Q4 Icam1 H2-Q7 Actb Drp2 Cd40 Rac2 H2-DMb1 ltgb2 WT1.2DM WT2.2DM mdx2.2DM mdx1.2DM mdx3.2DM

Scalling expressed matrix for genes active in KEGG_VIRAL_MYOCARDITIS

