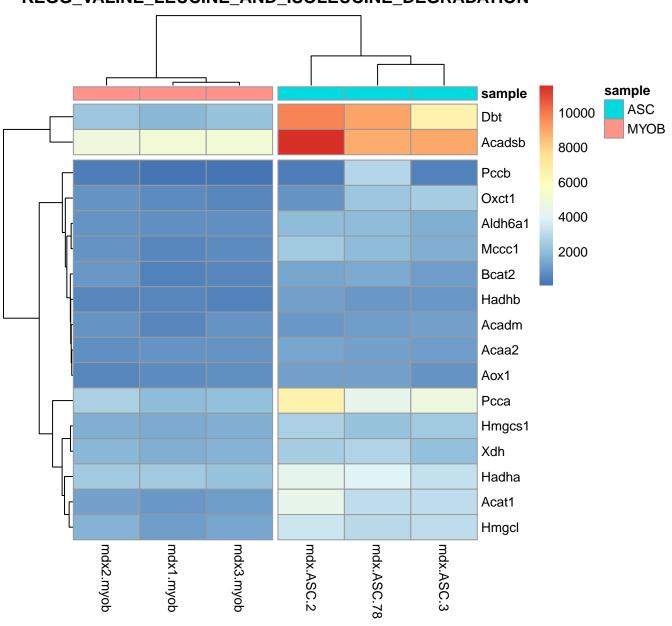
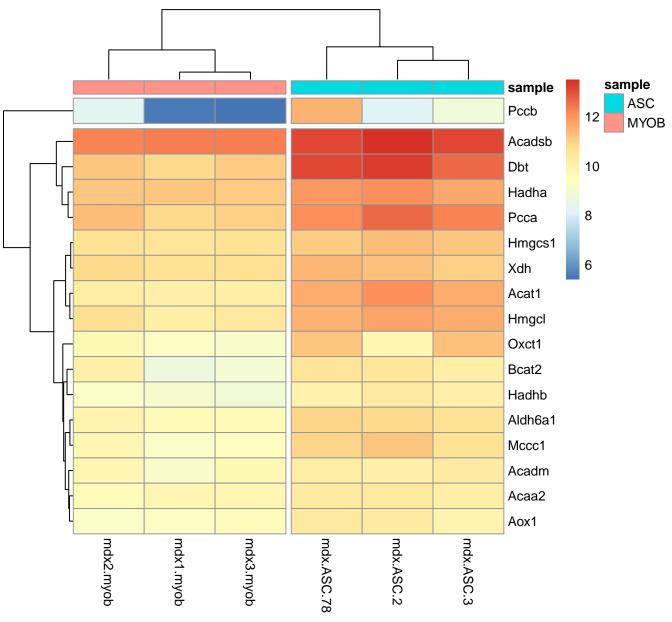
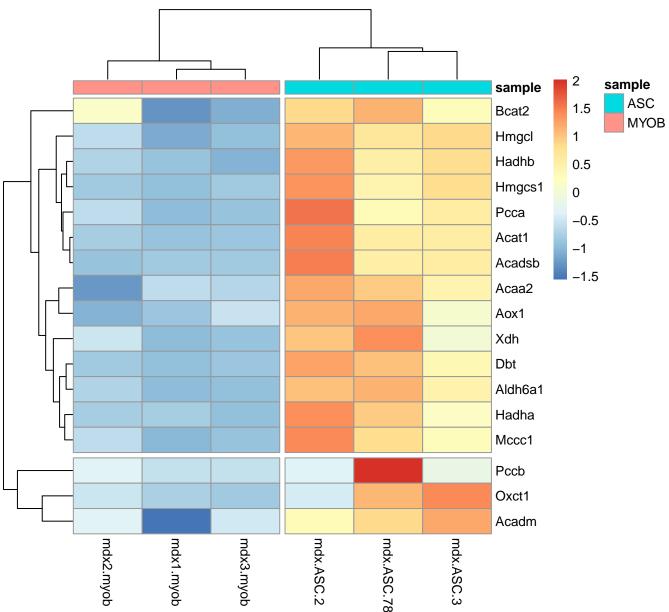
Expressed Matrix from Normalized for genes in KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION



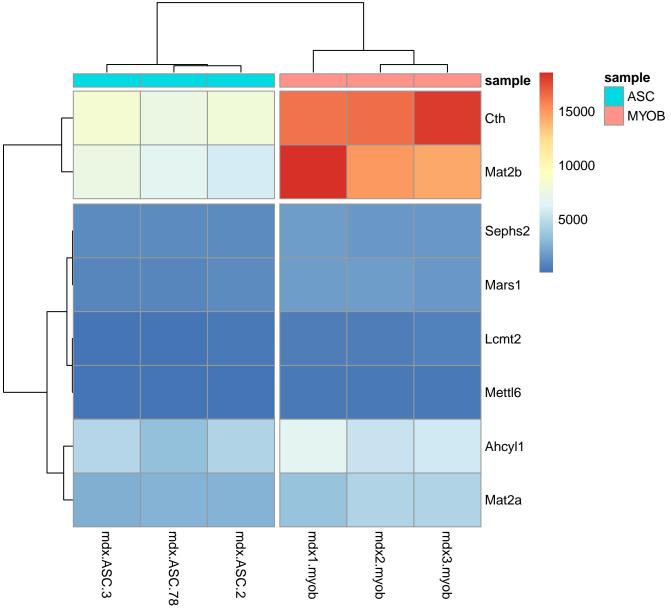
Expressed Matrix for genes active in KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION



Scalling expressed matrix for genes active in KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION



Expressed Matrix from Normalized for genes in KEGG_SELENOAMINO_ACID_METABOLISM



Expressed Matrix for genes active in KEGG_SELENOAMINO_ACID_METABOLISM 14 sample sample ASC MYOB Lcmt2 12 10 Mettl6 8 Sephs2 6 Mars1 Cth Mat2b Ahcyl1 Mat2a

mdx1.myob

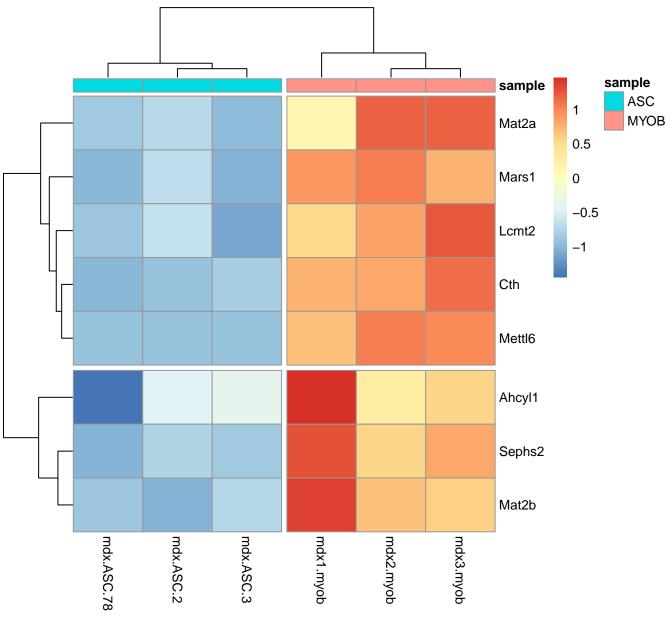
mdx3.myob

mdx.ASC.2

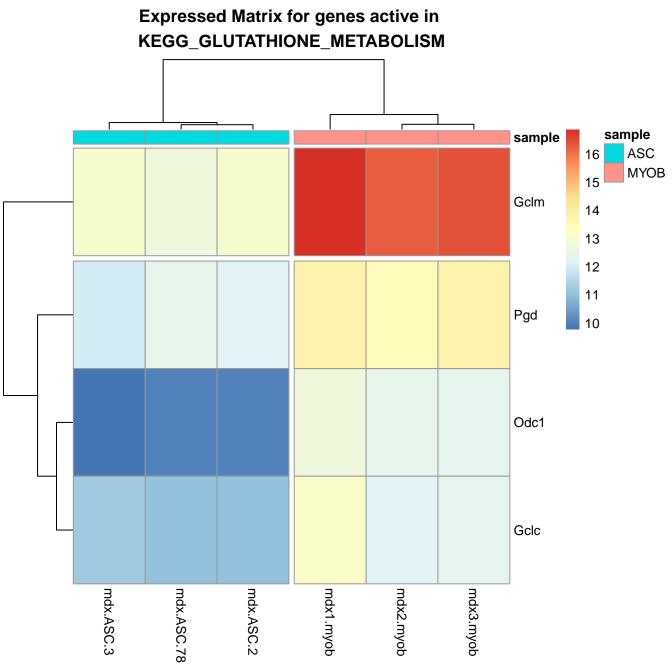
mdx.ASC.78

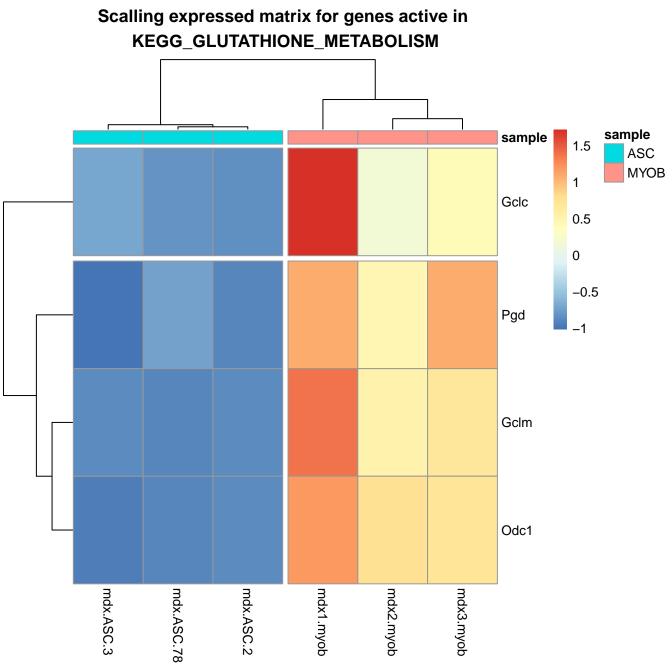
mdx.ASC.3

Scalling expressed matrix for genes active in KEGG_SELENOAMINO_ACID_METABOLISM

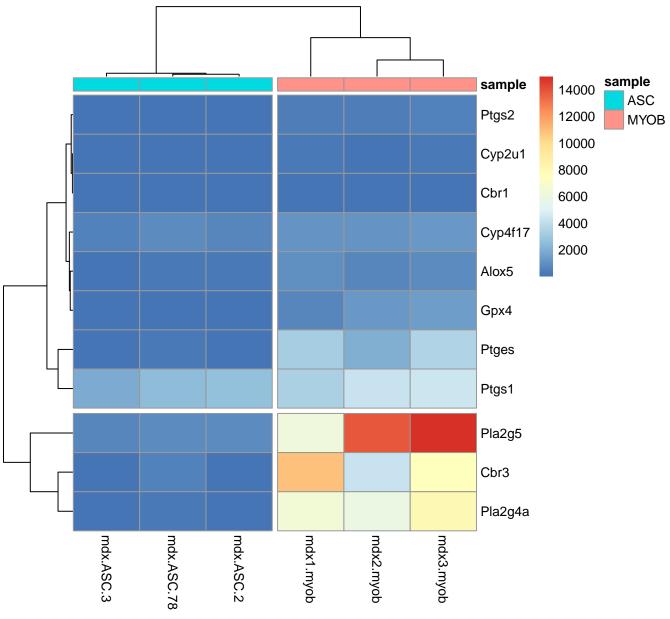


Expressed Matrix from Normalized for genes in KEGG_GLUTATHIONE_METABOLISM 120000 sample sample ASC 1e+05 MYOB 80000 Gclm 60000 40000 20000 Pgd Odc1 Gclc mdx.ASC.78 mdx.ASC.2 mdx.ASC.3 mdx1.myob mdx2.myob mdx3.myob

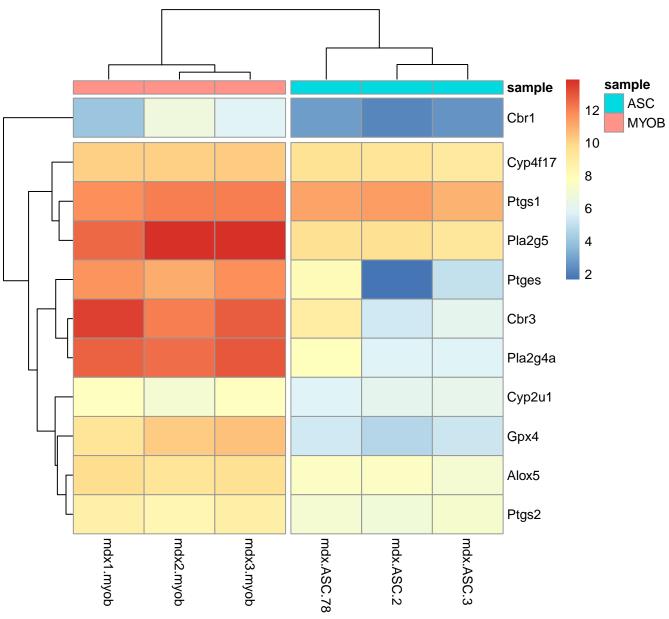




Expressed Matrix from Normalized for genes in KEGG_ARACHIDONIC_ACID_METABOLISM



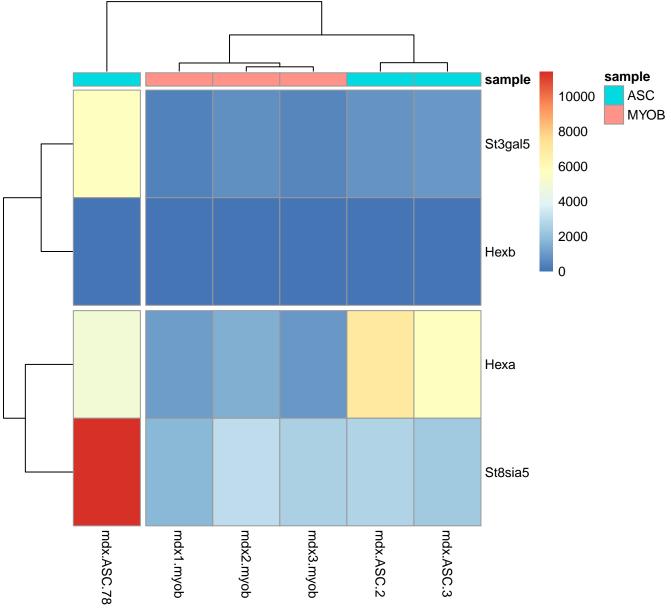
Expressed Matrix for genes active in KEGG_ARACHIDONIC_ACID_METABOLISM



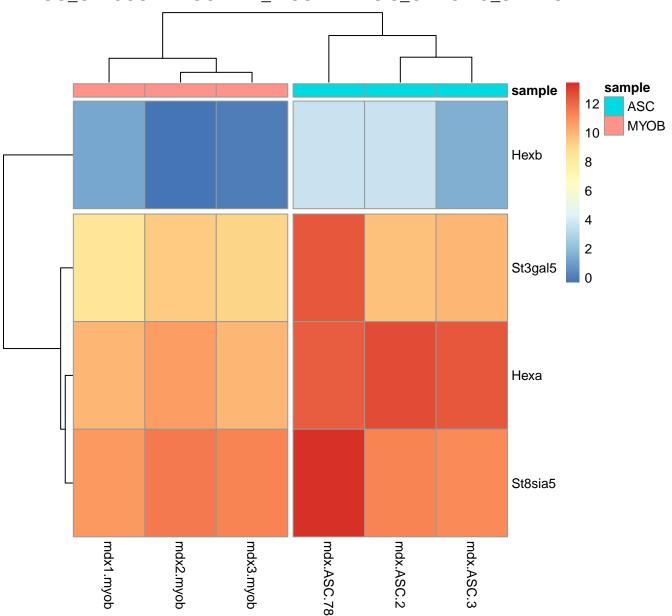
Scalling expressed matrix for genes active in KEGG_ARACHIDONIC_ACID_METABOLISM sample sample 1.5 ASC Cbr3 MYOB 1 Cyp2u1 0.5 Cyp4f17 0 -0.5 Alox5 -1 Pla2g4a **Ptges** Ptgs2 Cbr1 Ptgs1 Gpx4 Pla2g5 mdx.ASC.3 mdx.ASC.78 mdx.ASC.2 mdx1.myob mdx2.myob

Expressed Matrix from Normalized for genes in

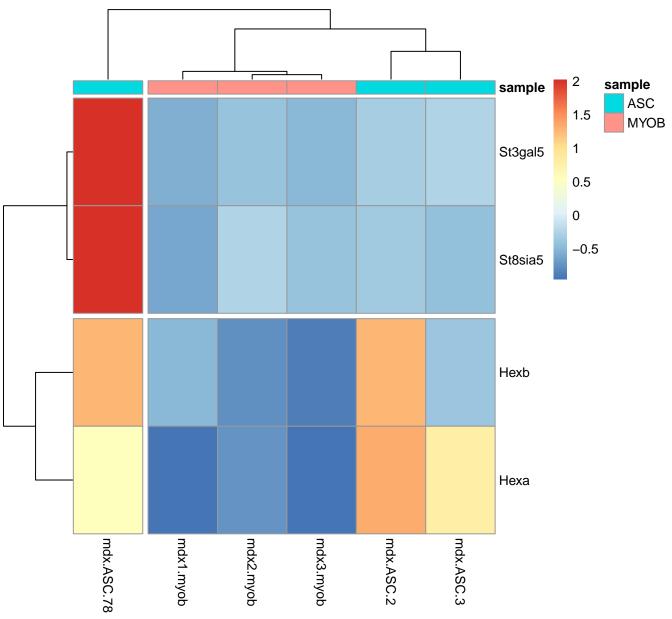




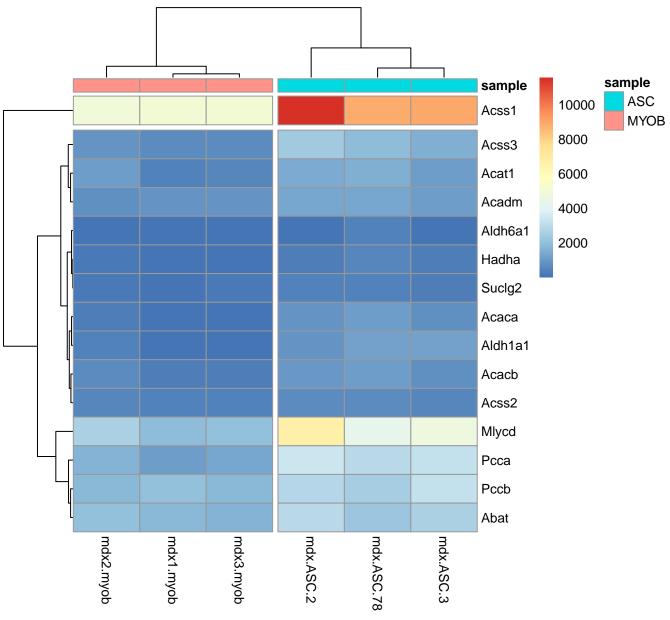
Expressed Matrix for genes active in KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SERIES



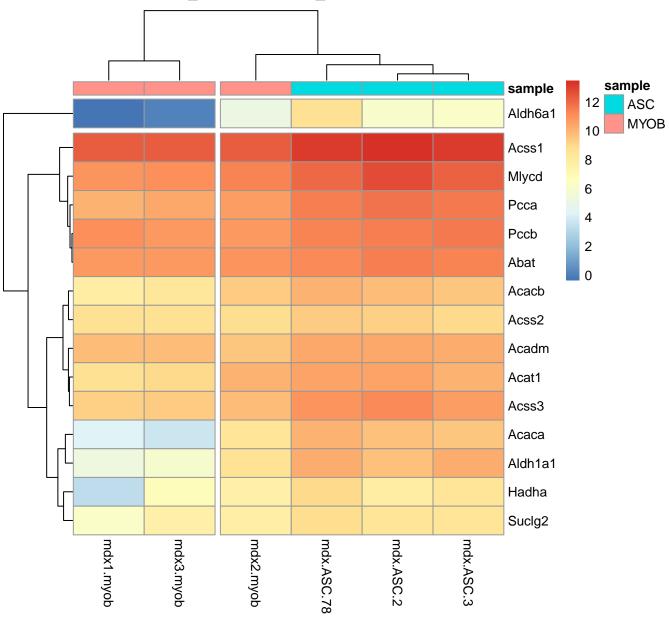
Scalling expressed matrix for genes active in KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SERIES



Expressed Matrix from Normalized for genes in KEGG_PROPANOATE_METABOLISM



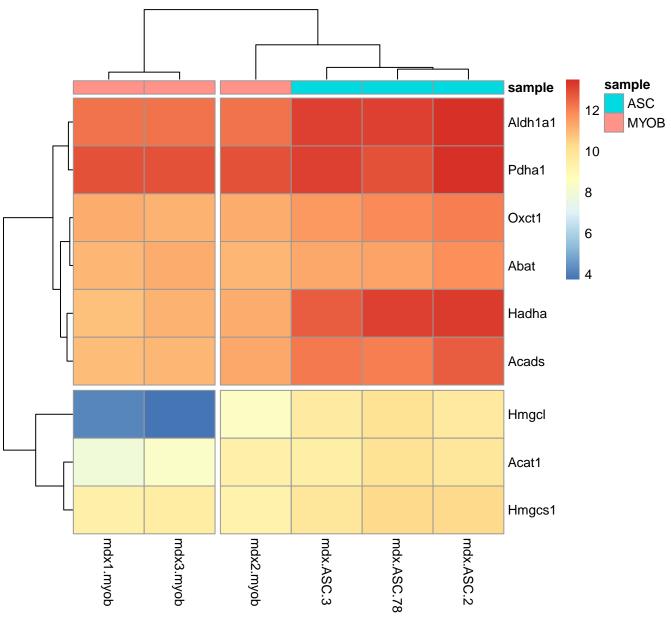
Expressed Matrix for genes active in KEGG_PROPANOATE_METABOLISM



Scalling expressed matrix for genes active in **KEGG_PROPANOATE_METABOLISM** 2 sample sample ASC 1.5 Abat MYOB 1 Mlycd 0.5 Pcca 0 Acss1 -0.5Acss3 -1 Pccb Acadm Aldh6a1 Aldh1a1 Hadha Suclg2 Acss2 Acaca Acat1 Acacb mdx2.myob mdx1.myob mdx3.myob mdx.ASC.78 mdx.ASC.2 mdx.ASC.3

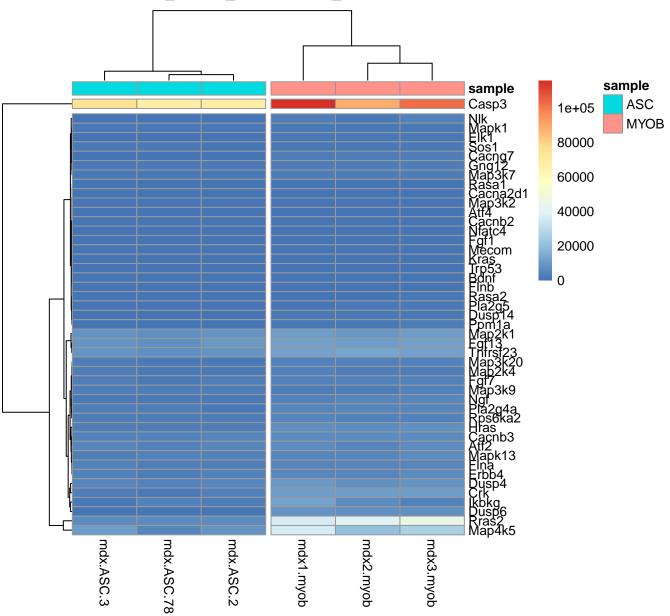
Expressed Matrix from Normalized for genes in KEGG_BUTANOATE_METABOLISM sample sample ASC 10000 Hmgcs1 MYOB 8000 Acat1 6000 4000 Hmgcl 2000 Acads Oxct1 Abat Hadha Aldh1a1 Pdha1 mdx2.myob mdx.ASC.2 mdx1.myob mdx3.myob mdx.ASC.78 mdx.ASC.3

Expressed Matrix for genes active in KEGG_BUTANOATE_METABOLISM

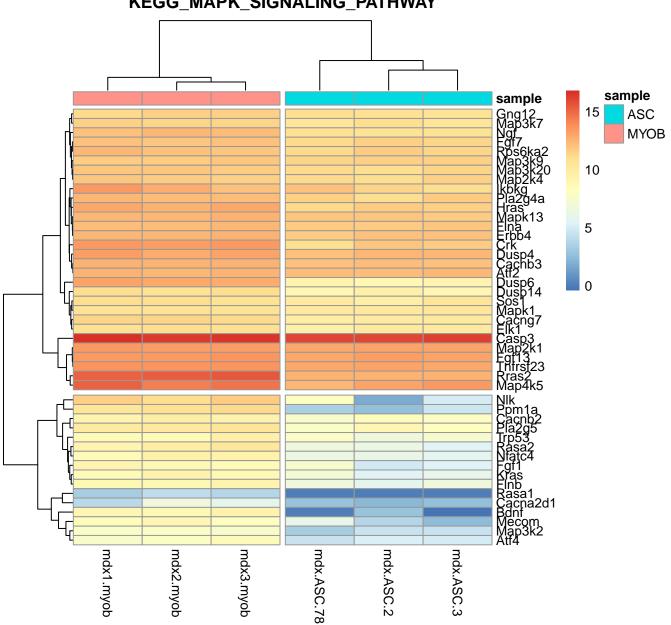


Scalling expressed matrix for genes active in **KEGG_BUTANOATE_METABOLISM** sample sample 1.5 ASC MYOB Pdha1 1 0.5 Abat 0 Aldh1a1 -0.5-1 Acads Acat1 Hmgcl Hmgcs1 Oxct1 Hadha mdx2.myob mdx.ASC.2 mdx.ASC.3 mdx1.myob mdx3.myob mdx.ASC.78

Expressed Matrix from Normalized for genes in KEGG_MAPK_SIGNALING_PATHWAY

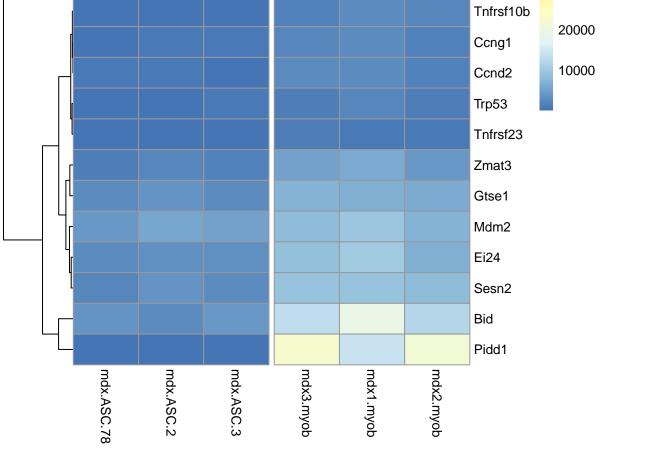


Expressed Matrix for genes active in KEGG_MAPK_SIGNALING_PATHWAY



Scalling expressed matrix for genes active in KEGG_MAPK_SIGNALING_PATHWAY sample sample 1.5 lkbkg Map2k4 Rps6ka2 Map4k5 Casp3 **ASC** MYOB 1 Cacna2d1
Grant 2
Grant 3
Grant 0.5 0 -0.5-1 mdx.ASC.78 mdx.ASC.2 mdx.ASC.3

Expressed Matrix from Normalized for genes in KEGG_P53_SIGNALING_PATHWAY sample sample ASC Bax 40000 MYOB Ccnd1 30000 Tnfrsf10b 20000 Ccng1 10000 Ccnd2 Trp53 Tnfrsf23 Zmat3 Gtse1 Mdm2 Ei24



Expressed Matrix for genes active in KEGG_P53_SIGNALING_PATHWAY sample sample ASC Bax 14 MYOB Ccnd1 12 Zmat3 Bid 10 Mdm2 Gtse1 Ei24 Sesn2 Pidd1 Tnfrsf23 Ccng1 Ccnd2 Tnfrsf10b Trp53 mdx2.myob mdx.ASC.78 mdx1.myob mdx3.myob mdx.ASC.2 mdx.ASC.3

Scalling expressed matrix for genes active in **KEGG_P53_SIGNALING_PATHWAY** sample sample ASC Pidd1 1 MYOB Sesn2 0.5 Gtse1 0 Bax -0.5Tnfrsf23 -1 Ccnd2 Ei24 Mdm2 Ccng1 Zmat3 Bid Trp53 Tnfrsf10b Ccnd1

mdx.ASC.78

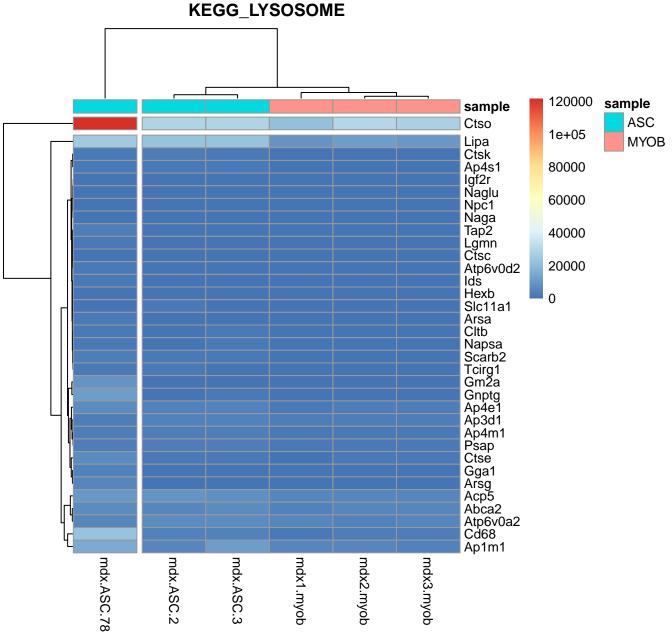
mdx.ASC.2

mdx.ASC.3

mdx1.myob

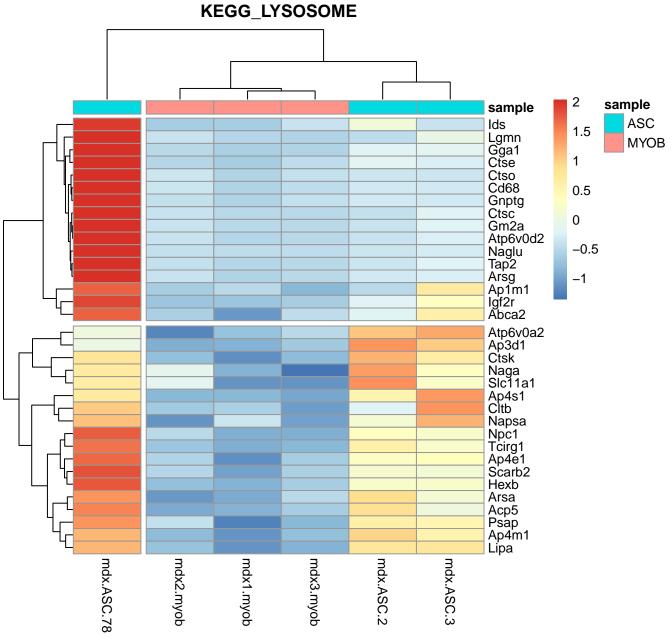
mdx3.myob

Expressed Matrix from Normalized for genes in

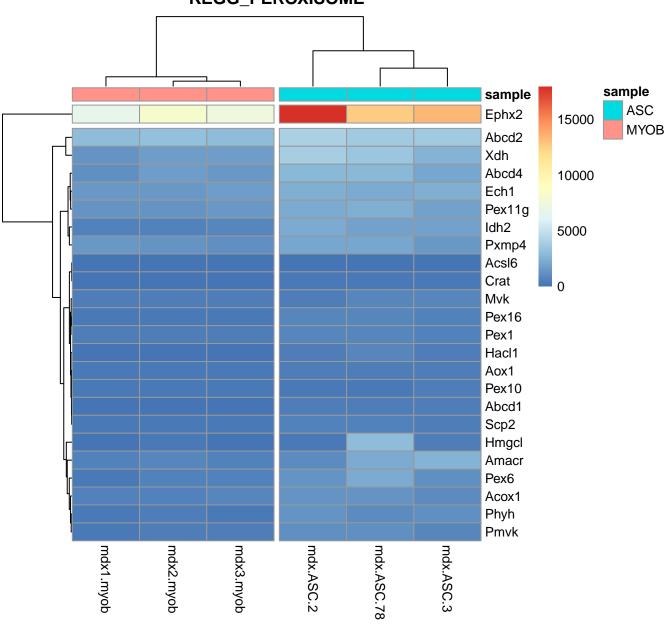


Expressed Matrix for genes active in KEGG_LYSOSOME sample sample Igf2r Naglu Ctsc Atp6v0d2 Tap2 Lgmn 15 ASC MYOB 10 Slc11a1 Arsa Scarb2 5 Cltb Napsa Ctsk Ap4s1 Gnptg Tcirg1 Gga1 Arsg Npc1 Gm2a 0 Naga Ids Hexb Ctso Lipa Cise Ap4m1 Psap Ap4e1 Ap3d1 Cd68 Abca2 Atp6v0a2 Ap1m1 Acp5 mdx.ASC.3 mdx1.myob mdx3.myob mdx.ASC.78 mdx2.myob mdx.ASC.2

Scalling expressed matrix for genes active in



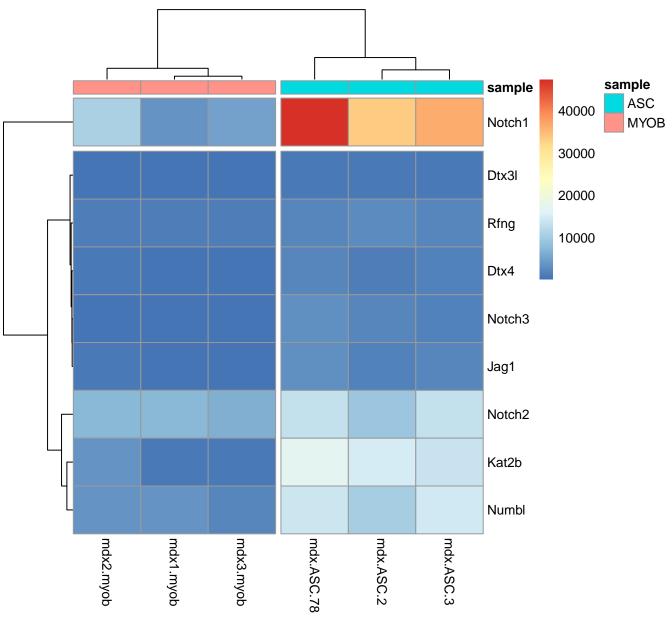
Expressed Matrix from Normalized for genes in KEGG_PEROXISOME



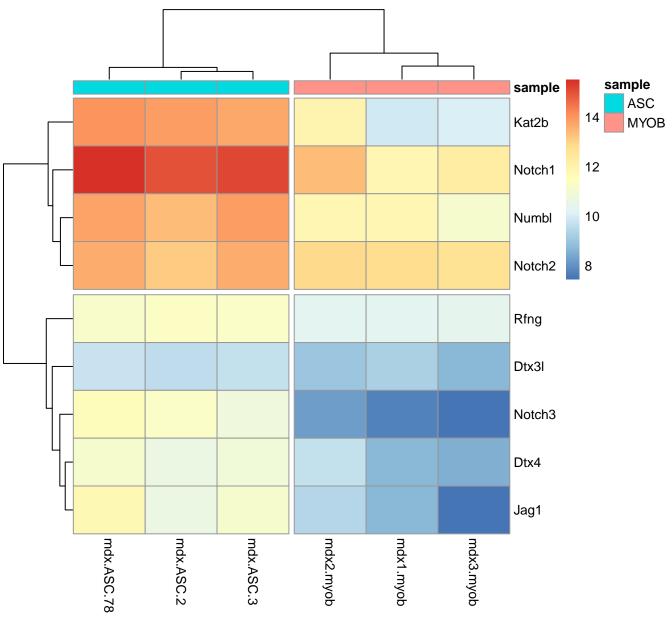
Expressed Matrix for genes active in KEGG_PEROXISOME 14 sample sample ASC Acsl6 12 **MYOB** Ephx2 10 Abcd2 8 Xdh Pxmp4 6 Ech1 Pex11g 4 Abcd4 2 Hmgcl Hacl1 0 Abcd1 Crat Acox1 Pex6 Amacr ldh2 Pex10 Aox1 Scp2 Phyh Pmvk Mvk Pex16 Pex1 mdx.ASC.78 mdx.ASC.2 mdx.ASC.3 mdx1.myob mdx3.myob

Scalling expressed matrix for genes active in **KEGG_PEROXISOME** 2 sample sample ASC Hmgcl 1.5 MYOB Pex10 1 Amacr Mvk 0.5 Abcd2 Ephx2 0 Phyh -0.5Ech1 ldh2 -1 Pex6 Hacl1 Crat Pxmp4 Acox1 Pex11g Pex16 Abcd4 Abcd1 Scp2 Pex1 Xdh Aox1 Acsl6 Pmvk mdx1.myob mdx2.myob mdx3.myob mdx.ASC.3 mdx.ASC.78 mdx.ASC.2

Expressed Matrix from Normalized for genes in KEGG_NOTCH_SIGNALING_PATHWAY

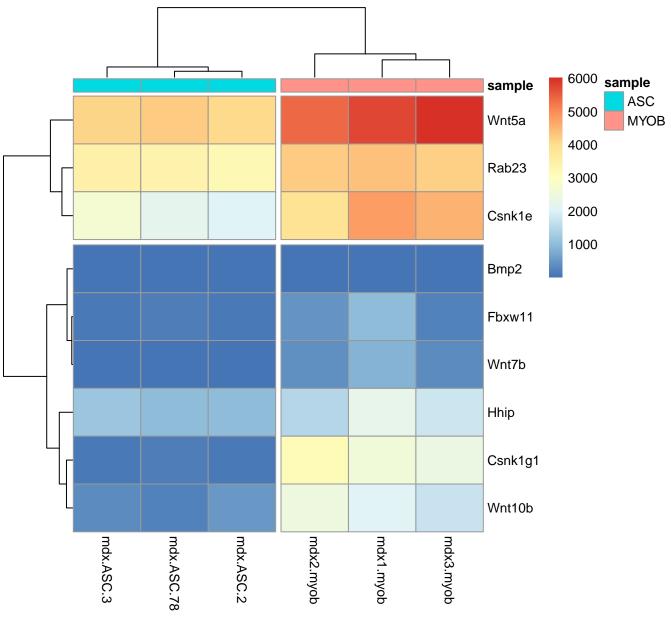


Expressed Matrix for genes active in KEGG_NOTCH_SIGNALING_PATHWAY



Scalling expressed matrix for genes active in KEGG_NOTCH_SIGNALING_PATHWAY sample sample 1.5 ASC 1 Rfng MYOB 0.5 Notch3 0 -0.5Kat2b -1 Jag1 Notch1 Dtx4 Dtx3I Numbl Notch2 mdx3.myob mdx.ASC.78 mdx.ASC.3 mdx1.myob mdx2.myob mdx.ASC.2

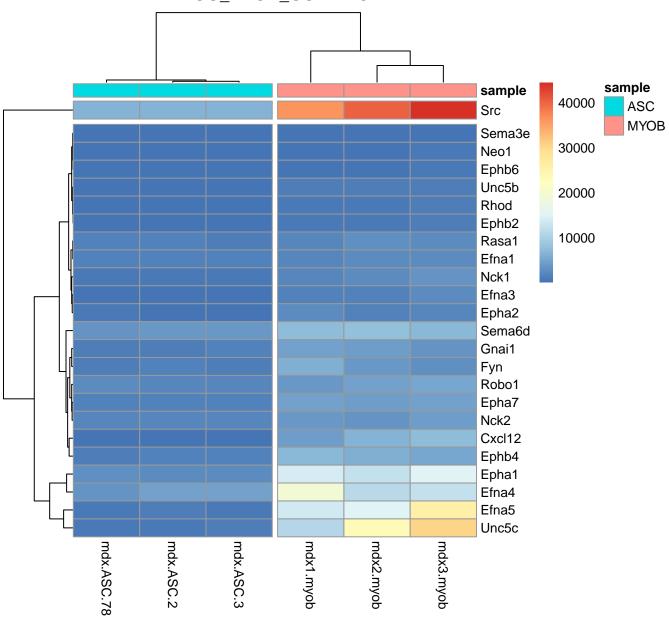
Expressed Matrix from Normalized for genes in KEGG_HEDGEHOG_SIGNALING_PATHWAY



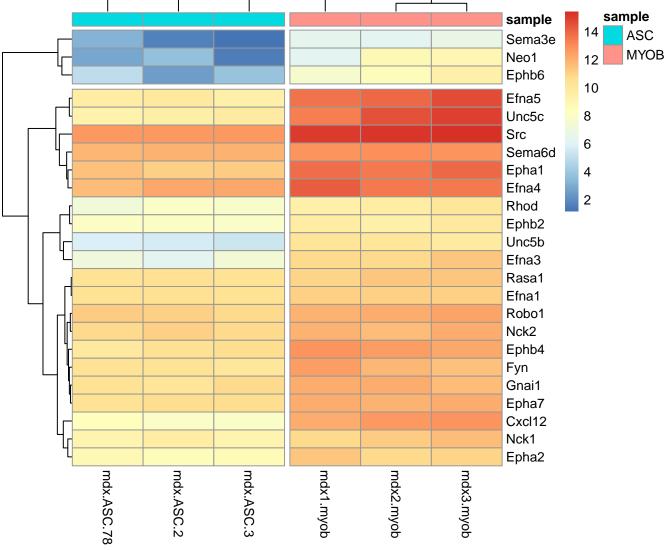
Expressed Matrix for genes active in KEGG_HEDGEHOG_SIGNALING_PATHWAY ₁₂ sample sample ASC 10 Bmp2 MYOB 8 Wnt7b 6 4 Hhip 2 Csnk1e Wnt5a Rab23 Fbxw11 Csnk1g1 Wnt10b mdx.ASC.78 mdx.ASC.2 mdx.ASC.3 mdx1.myob mdx2.myob mdx3.myob

Scalling expressed matrix for genes active in KEGG_HEDGEHOG_SIGNALING_PATHWAY sample sample ASC 1.5 Fbxw11 MYOB 1 Hhip 0.5 0 Wnt7b -0.5Csnk1g1 Wnt10b Rab23 Csnk1e Wnt5a Bmp2 mdx.ASC.3 mdx.ASC.78 mdx.ASC.2 mdx1.myob mdx3.myob

Expressed Matrix from Normalized for genes in KEGG_AXON_GUIDANCE

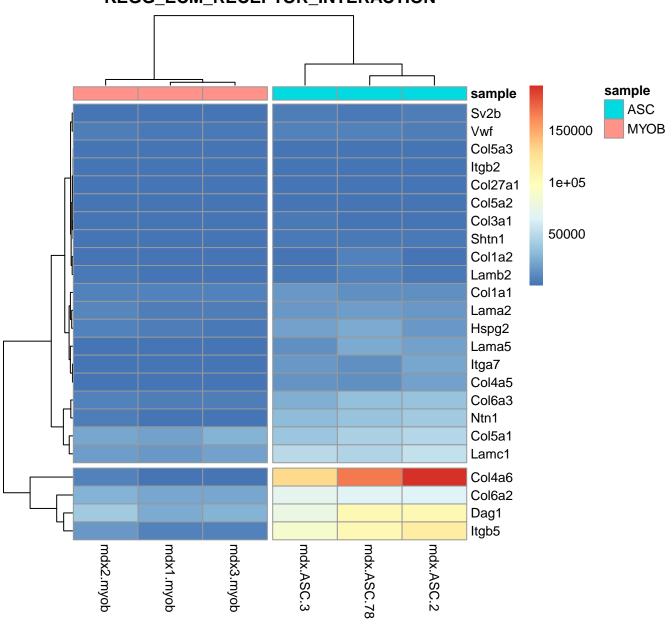


Expressed Matrix for genes active in KEGG_AXON_GUIDANCE sample sample 14 ASC Sema3e Neo1 12 Ephb6 10 Efna5 Unc5c 8 Src 6 Sema6d Epha1 4 Efna4 2 Rhod Ephb2

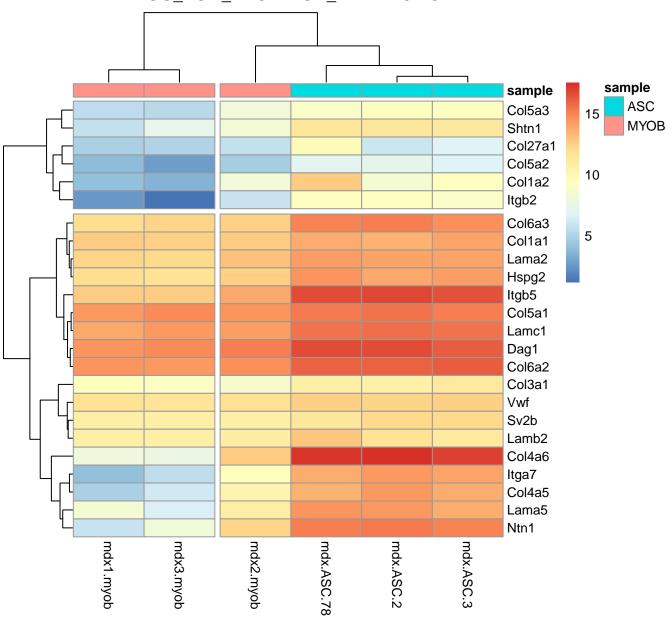


Scalling expressed matrix for genes active in **KEGG_AXON_GUIDANCE** sample sample 1.5 ASC Gnai1 MYOB Ephb4 1 Unc5b Sema6d 0.5 Fyn Efna4 0 Epha2 Src -0.5 Efna1 Epha7 -1 Epha1 Sema3e Efna3 Ephb2 Nck2 Ephb6 Efna5 Nck1 Rhod Neo1 Rasa1 Unc5c Robo1 Cxcl12 mdx.ASC.78 mdx.ASC.2 mdx.ASC.3 mdx1.myob mdx2.myob

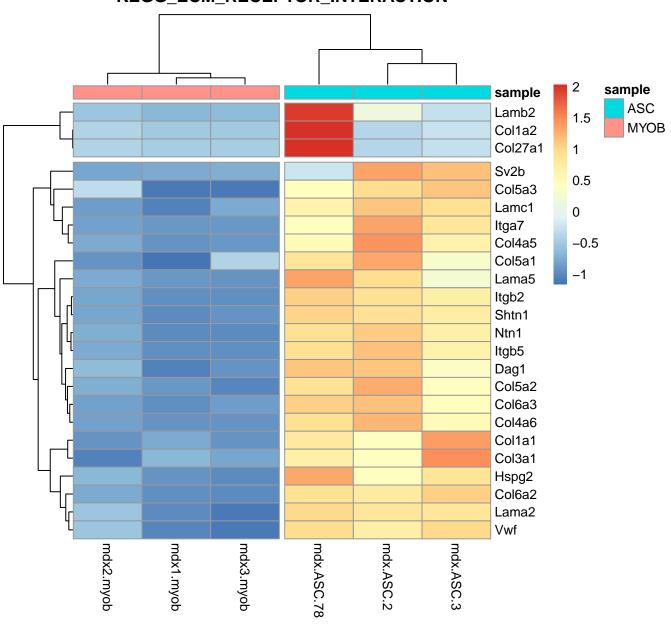
Expressed Matrix from Normalized for genes in KEGG_ECM_RECEPTOR_INTERACTION



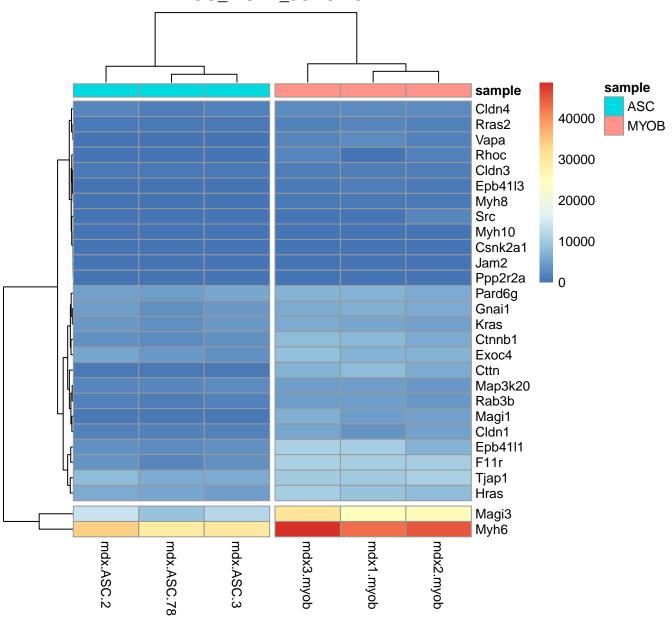
Expressed Matrix for genes active in KEGG_ECM_RECEPTOR_INTERACTION



Scalling expressed matrix for genes active in KEGG_ECM_RECEPTOR_INTERACTION

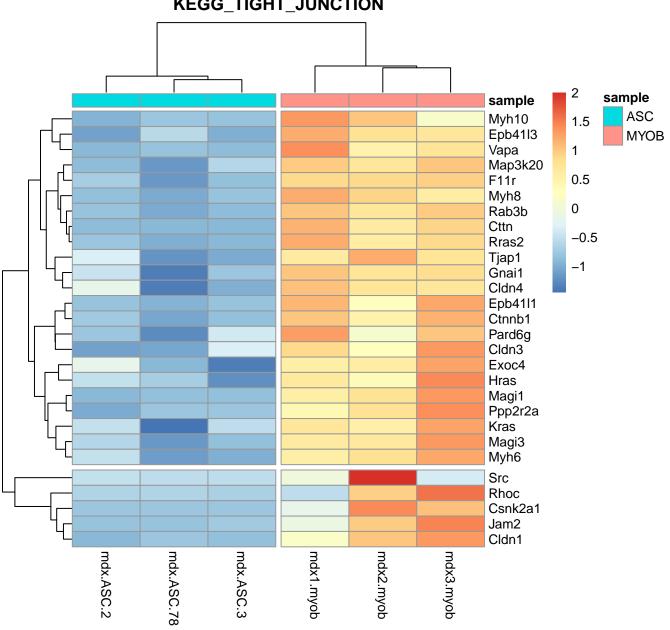


Expressed Matrix from Normalized for genes in KEGG_TIGHT_JUNCTION

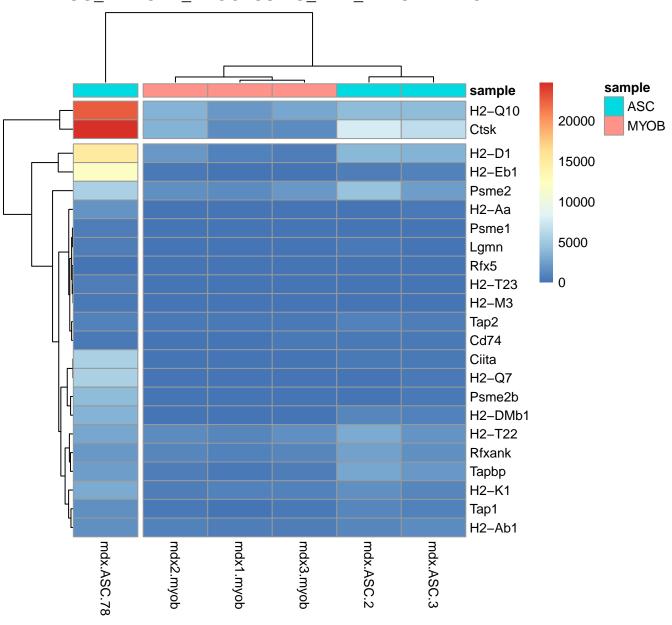


Expressed Matrix for genes active in KEGG_TIGHT_JUNCTION 15 sample sample **ASC** Csnk2a1 Jam2 MYOB Myh10 10 Ppp2r2a Src Rhoc Tjap1 5 Hras Exoc4 Pard6g Gnai1 0 Kras F11r Epb41I1 Ctnnb1 Magi3 Myh6 Epb41I3 Myh8 Cldn3 Rras2 Vapa Cttn Magi1 Cldn4 Map3k20 Cldn1 Rab3b mdx.ASC.2 mdx.ASC.78 mdx.ASC.3 mdx1.myob mdx2.myob mdx3.myob

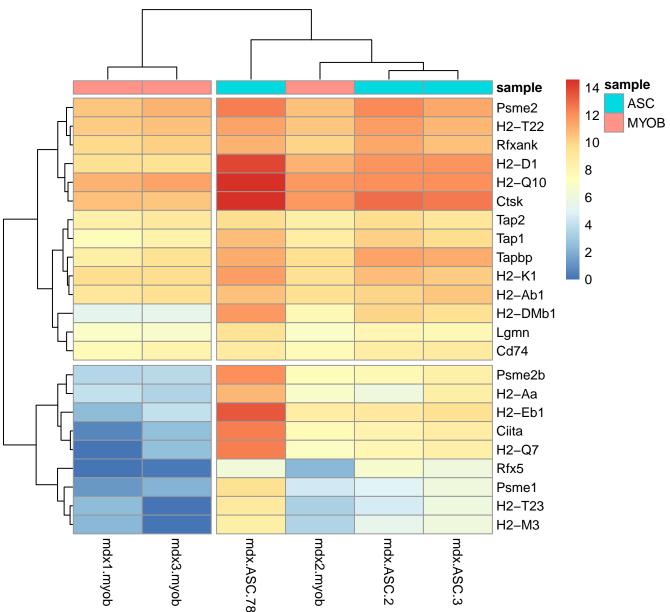
Scalling expressed matrix for genes active in KEGG_TIGHT_JUNCTION



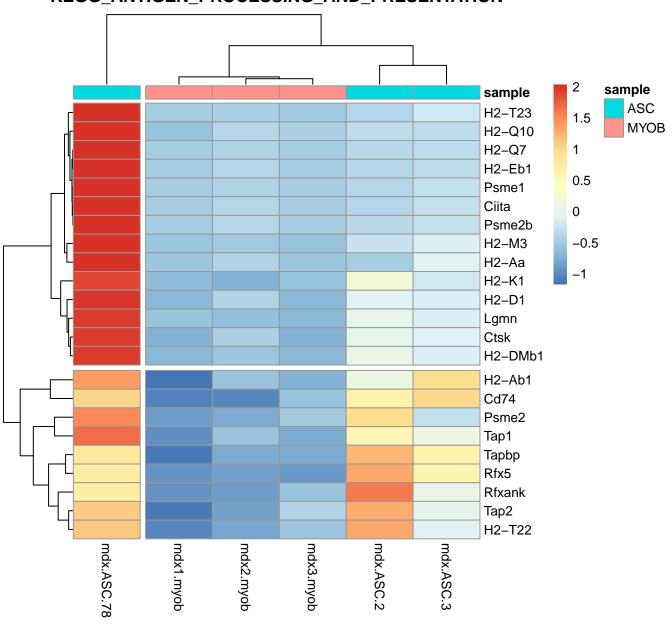
Expressed Matrix from Normalized for genes in KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION



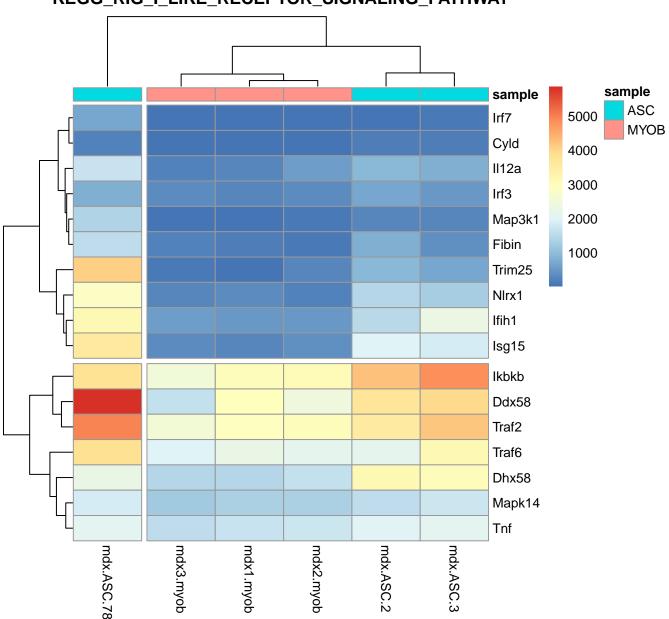
Expressed Matrix for genes active in KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION



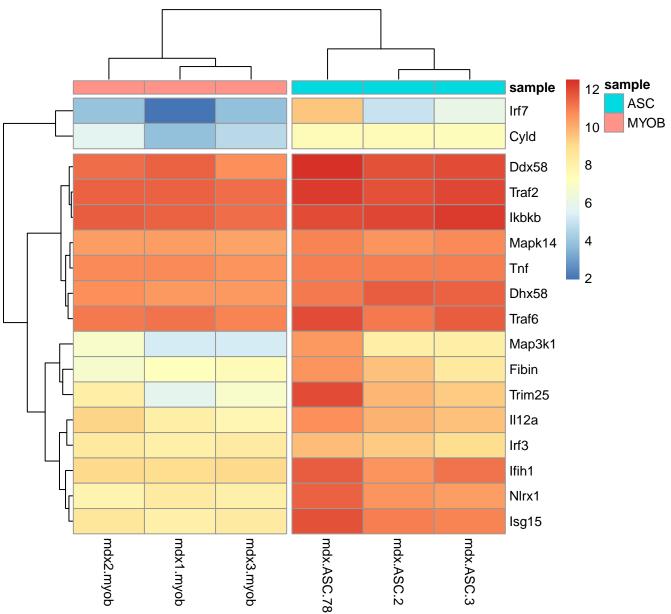
Scalling expressed matrix for genes active in KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION



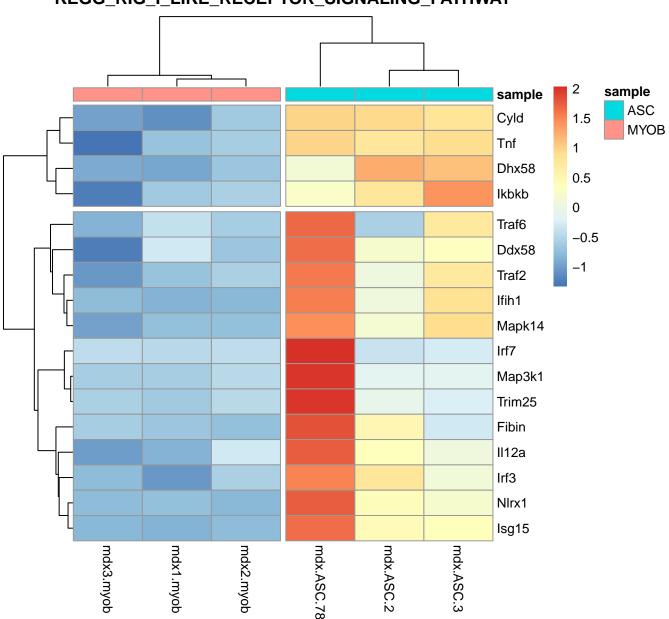
Expressed Matrix from Normalized for genes in KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY



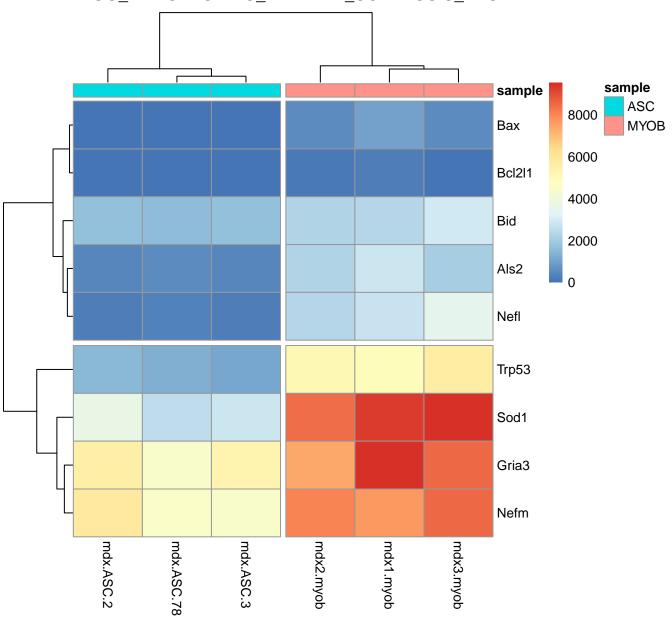
Expressed Matrix for genes active in KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY



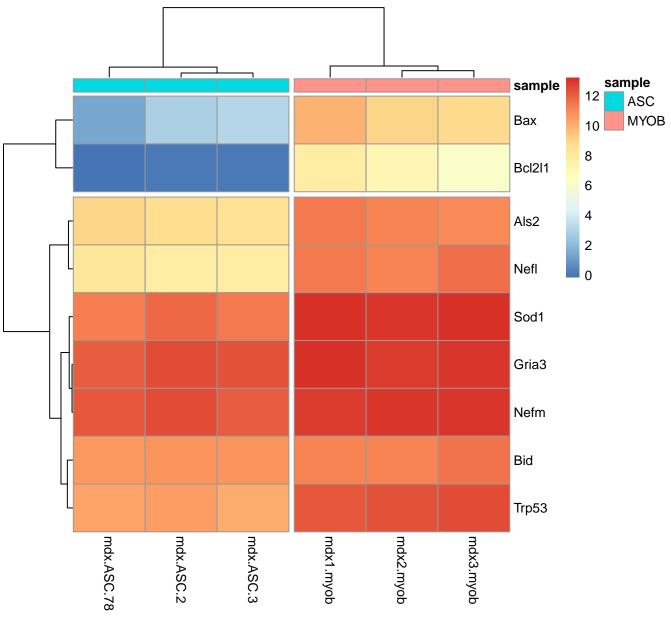
Scalling expressed matrix for genes active in KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY



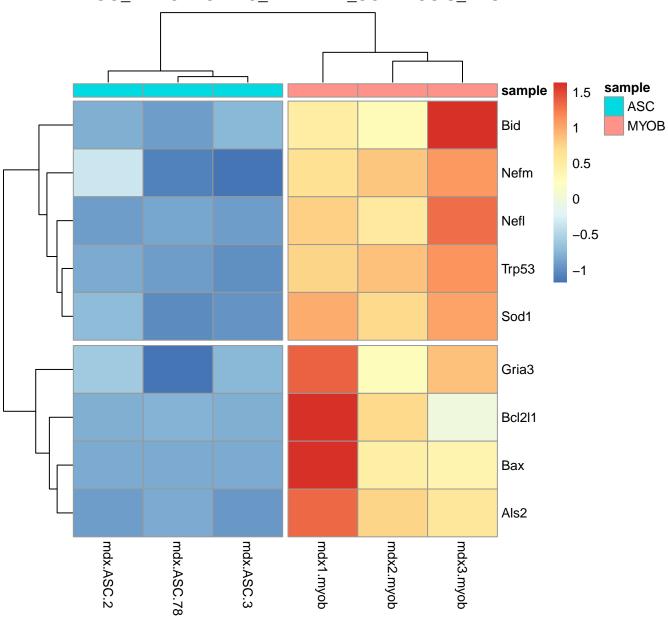
Expressed Matrix from Normalized for genes in KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS



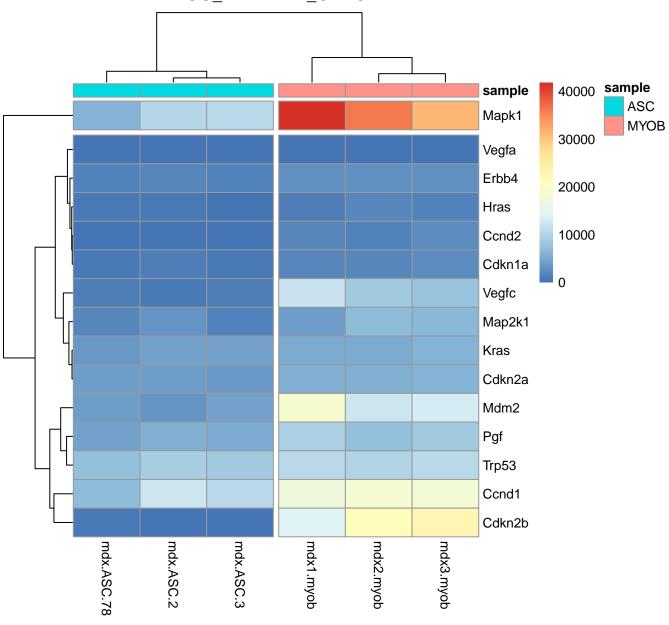
Expressed Matrix for genes active in KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS



Scalling expressed matrix for genes active in KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS

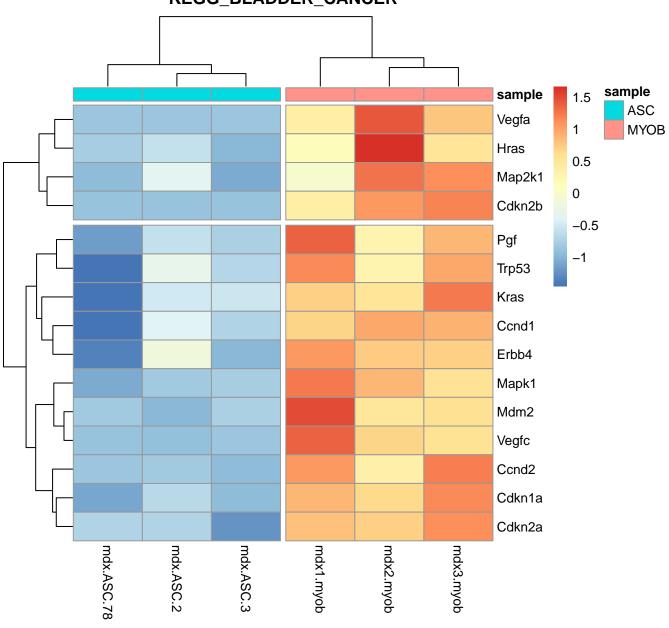


Expressed Matrix from Normalized for genes in KEGG_BLADDER_CANCER

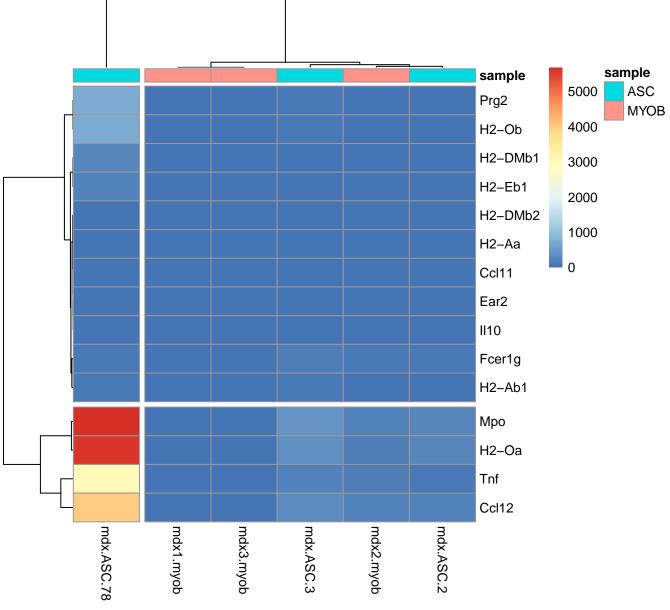


Expressed Matrix for genes active in KEGG_BLADDER_CANCER sample sample 14 ASC Vegfa 12 MYOB Cdkn2b 10 Ccnd2 8 6 Hras 4 Cdkn1a 2 Mapk1 Trp53 Ccnd1 Mdm2 Pgf Kras Cdkn2a Vegfc Map2k1 Erbb4 mdx.ASC.2 mdx.ASC.78 mdx.ASC.3 mdx1.myob mdx2.myob mdx3.myob

Scalling expressed matrix for genes active in KEGG_BLADDER_CANCER



Expressed Matrix from Normalized for genes in KEGG_ASTHMA



Expressed Matrix for genes active in KEGG_ASTHMA 12 sample sample ASC H2-DMb2 10 MYOB Ccl11 8 II10 6 H2-Aa 4 Ear2 2 Мро 0 H2-Oa Tnf Ccl12 H2-Ab1 H2-DMb1 H2-Eb1 Fcer1g Prg2 H2-Ob mdx3.myob mdx.ASC.3 mdx1.myob mdx.ASC.78 mdx2.myob mdx.ASC.2

Scalling expressed matrix for genes active in KEGG_ASTHMA

