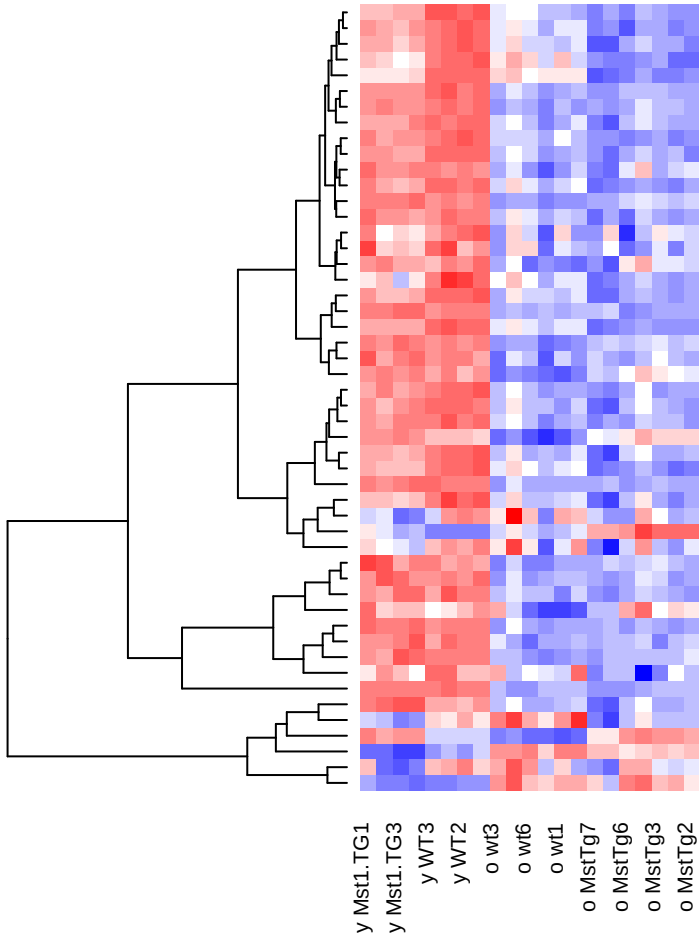
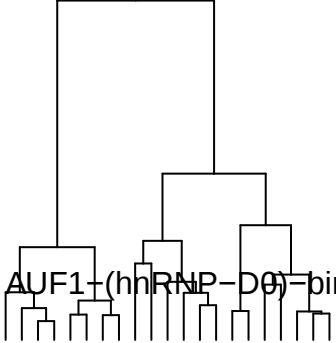
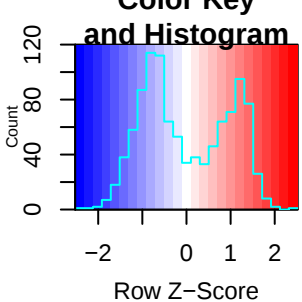


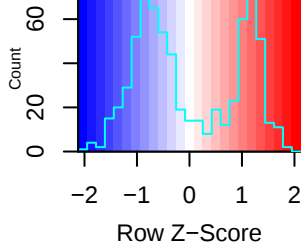
Color Key
and Histogram



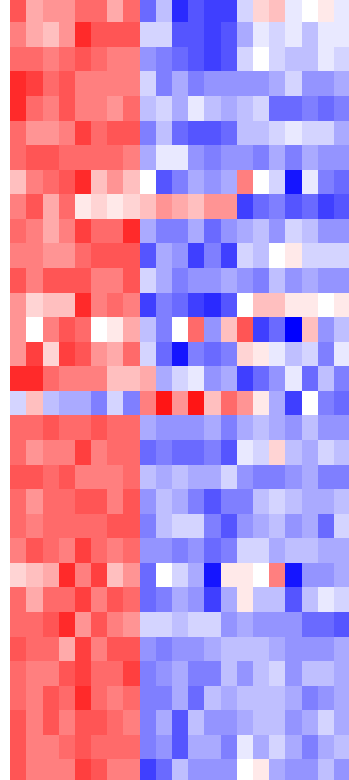
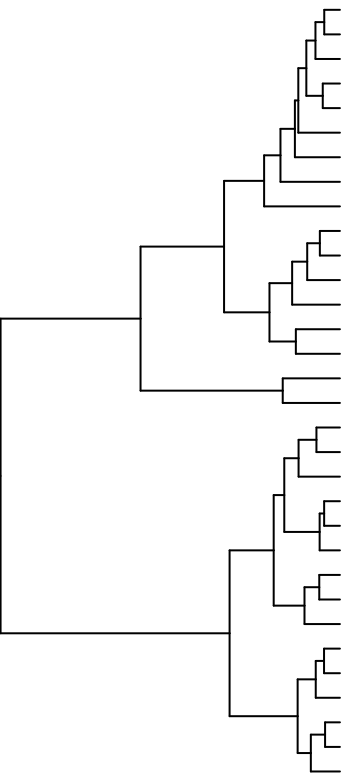
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Color Key

and Histogram



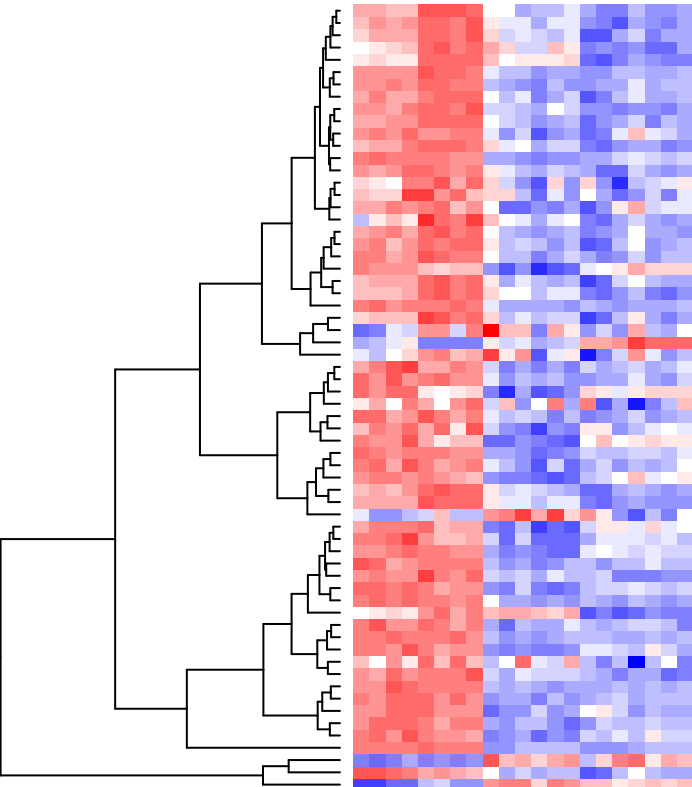
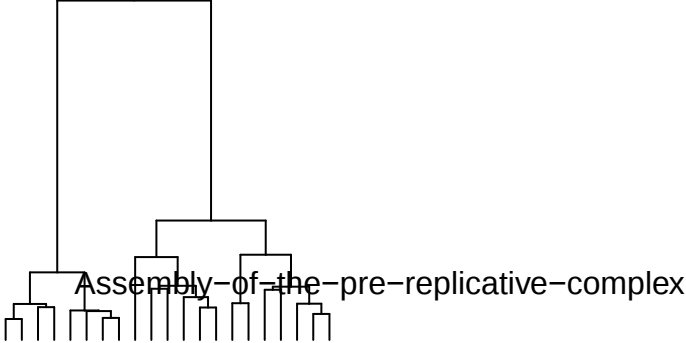
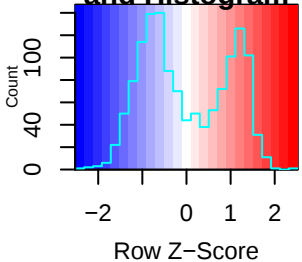
Activation of the pre-replicative-complex



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y WT4
y WT3
y Mst1.TG1
y Mst1.TG3
o wt2
o wt5
o wt3
o MstTg1
o MstTg2
o MstTg3
o MstTg4

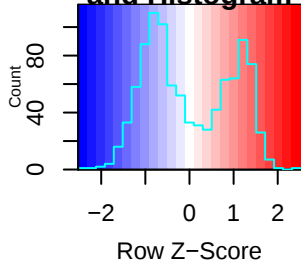
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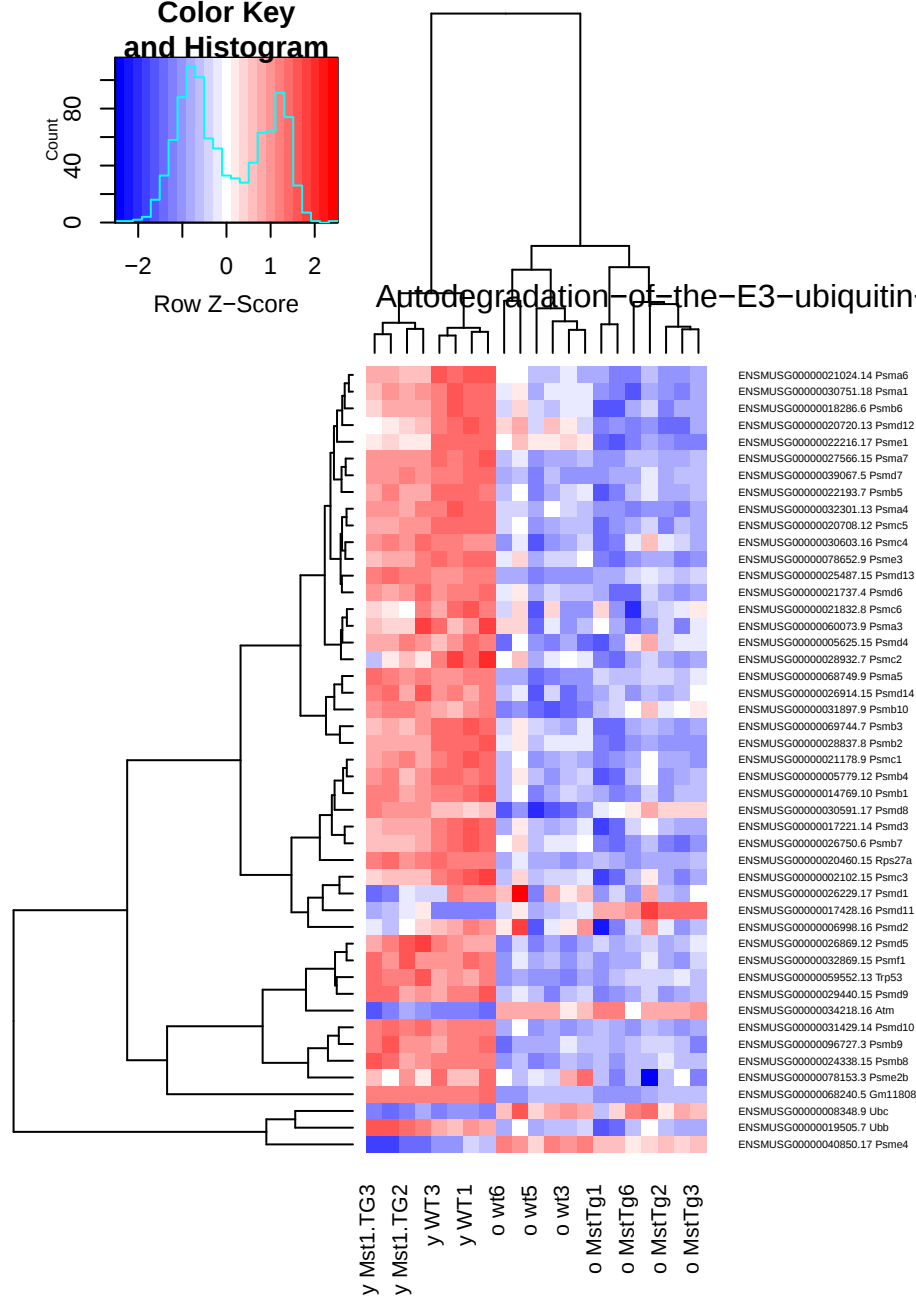
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y Mst1.TG3
y Mst1.TG2
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y WT3
o wt2
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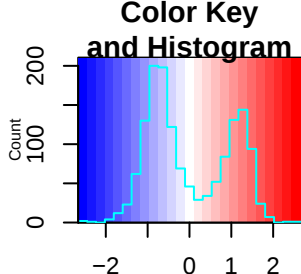
Color Key
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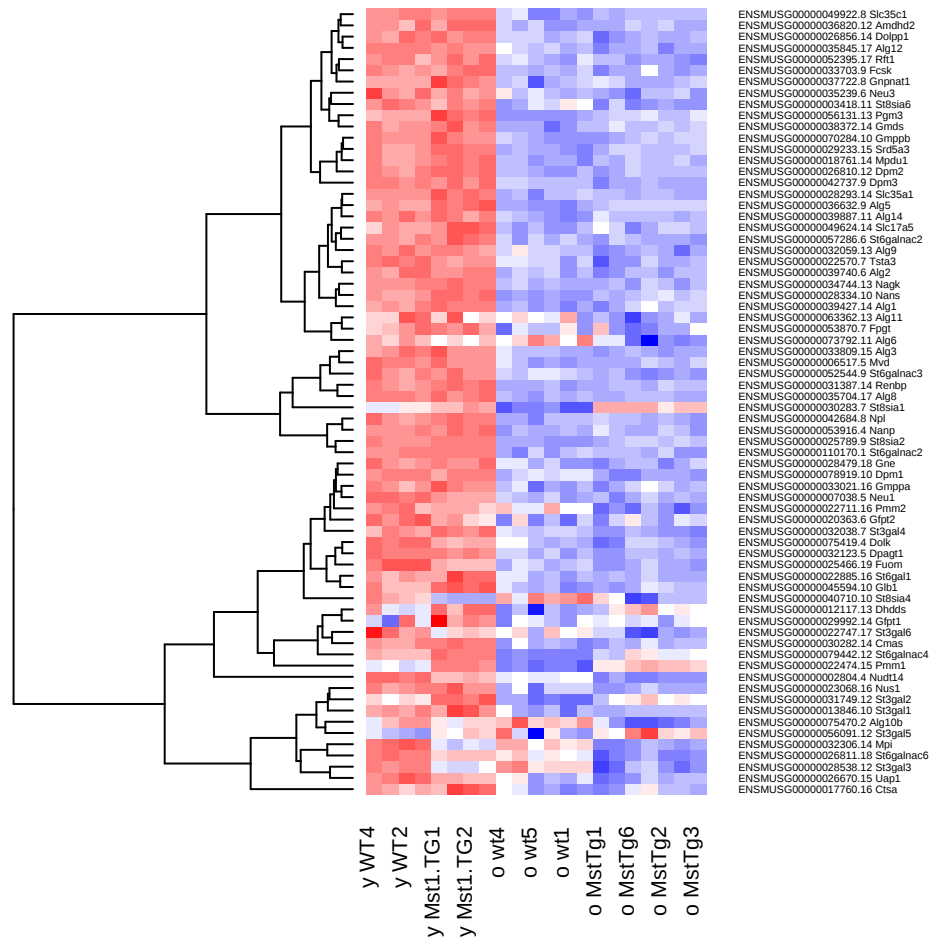
Autodegradation of the E3-ubiquitin-ligase COP1



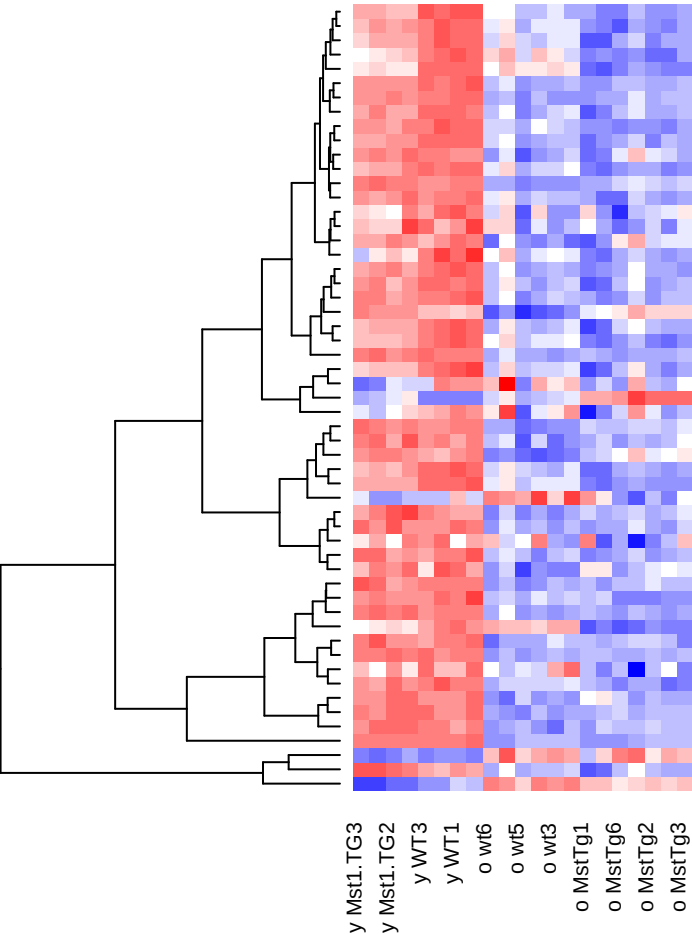
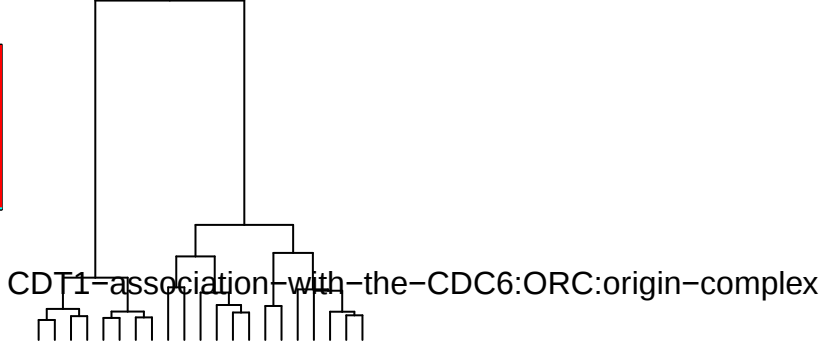
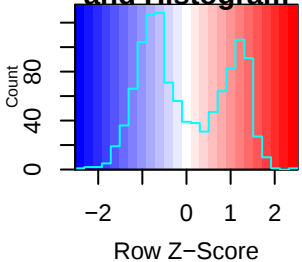
Color Key
and Histogram



Analysis of the N-glycan precursor (dolichol lipid-linked-oligosaccharide, -LLO)- and transfer to

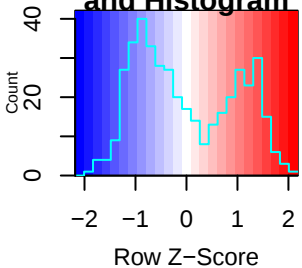


Color Key
and Histogram

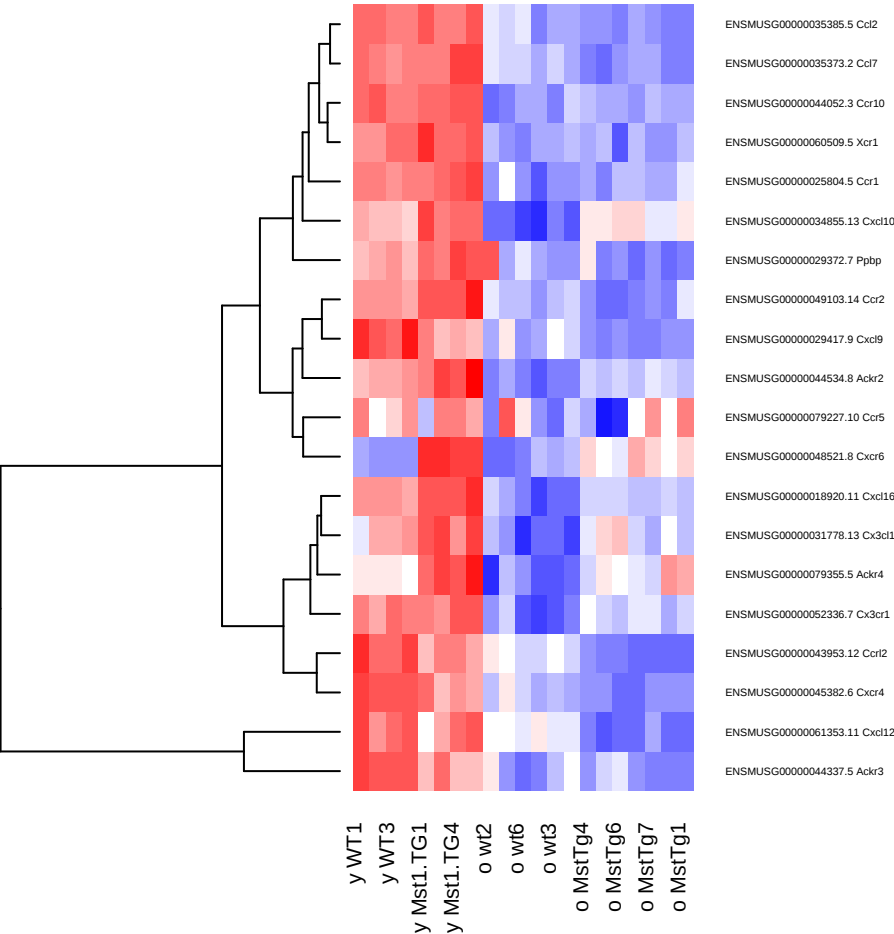


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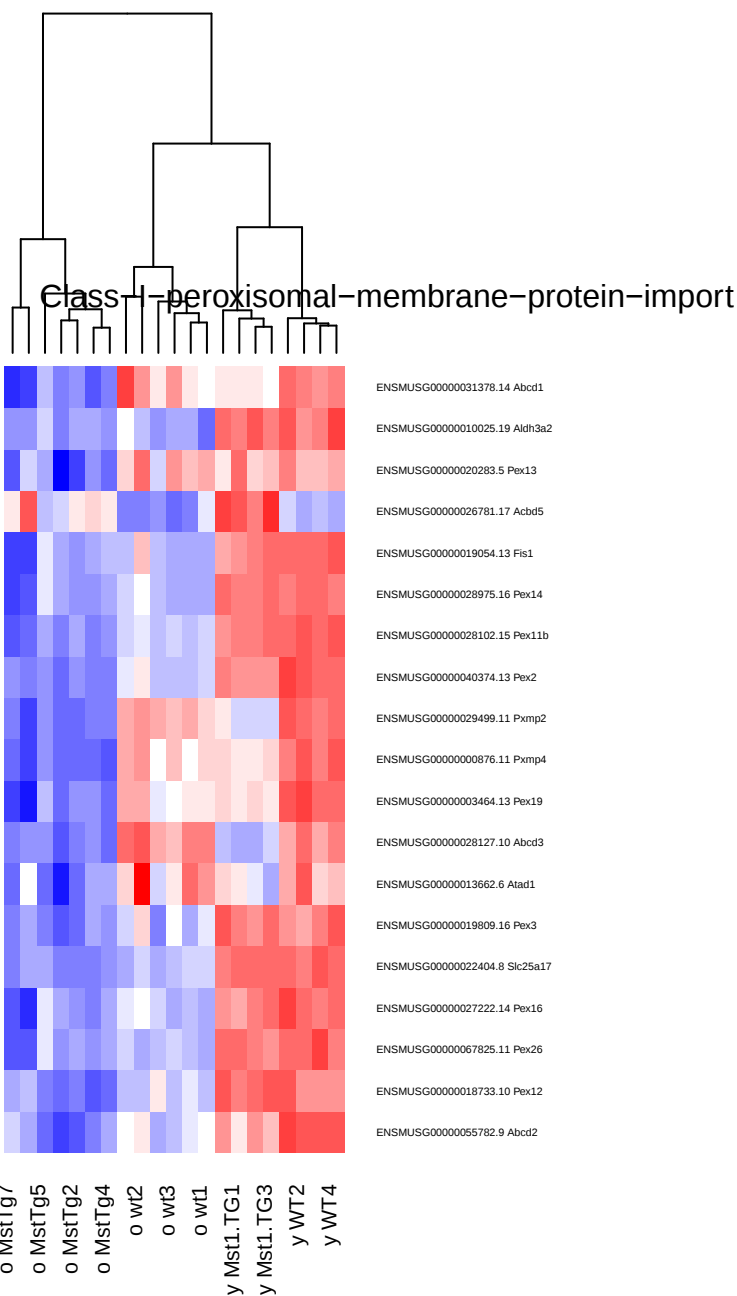
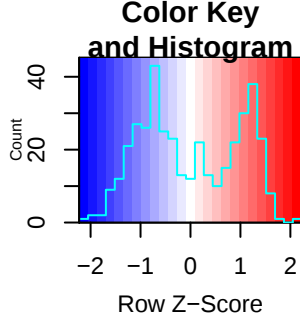
Color Key and Histogram



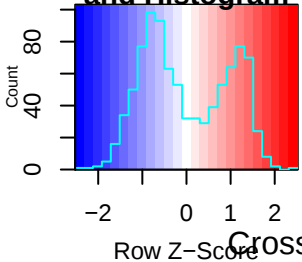
Chemokine receptors bind chemokines



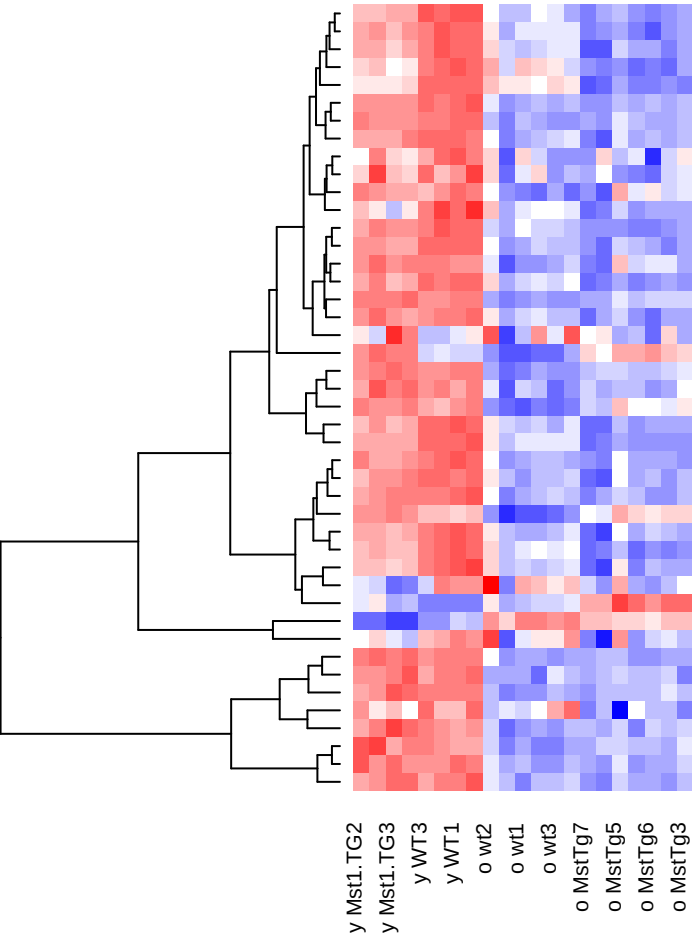
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Color Key
and Histogram



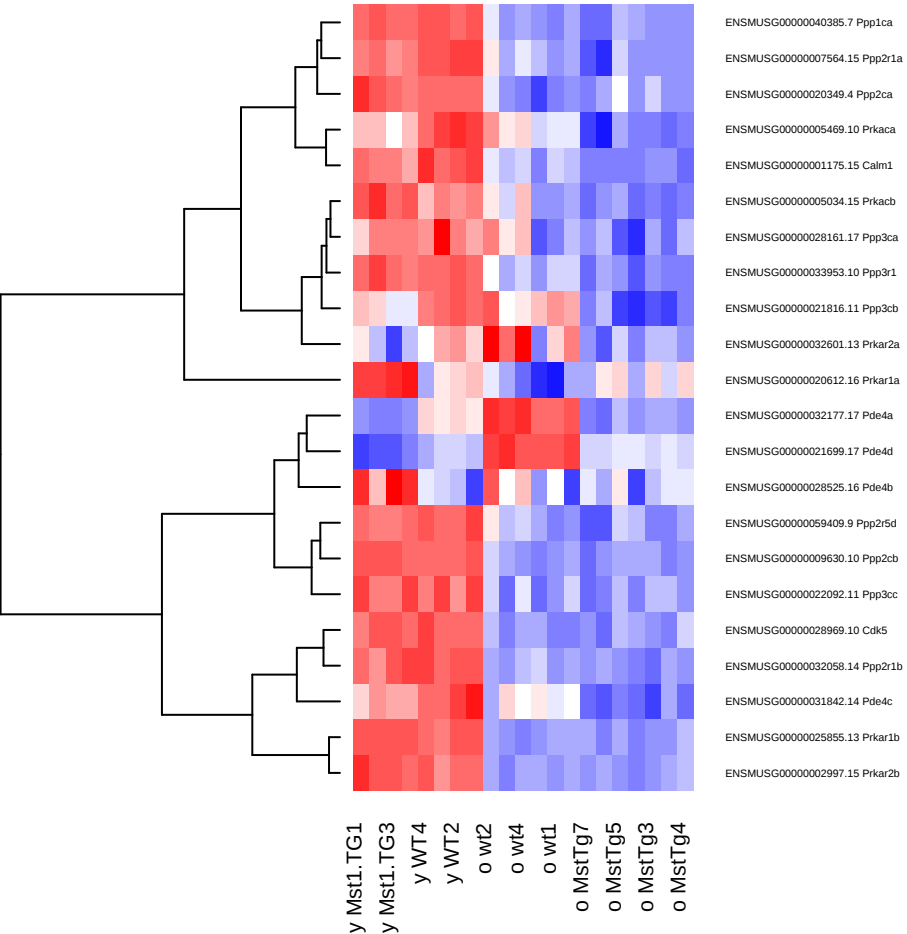
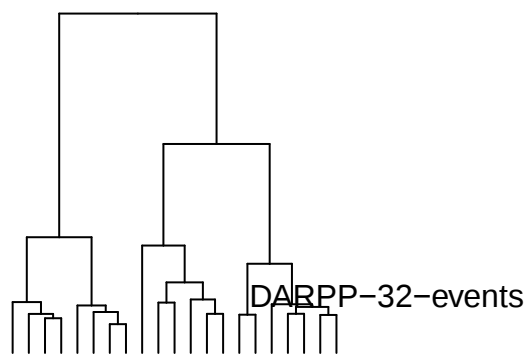
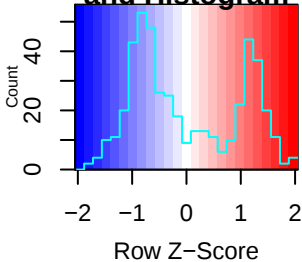
Cross-presentation of soluble-exogenous-antigens-(endosomes)



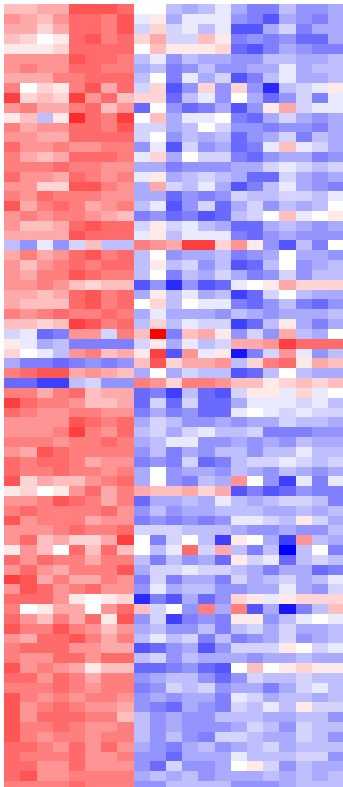
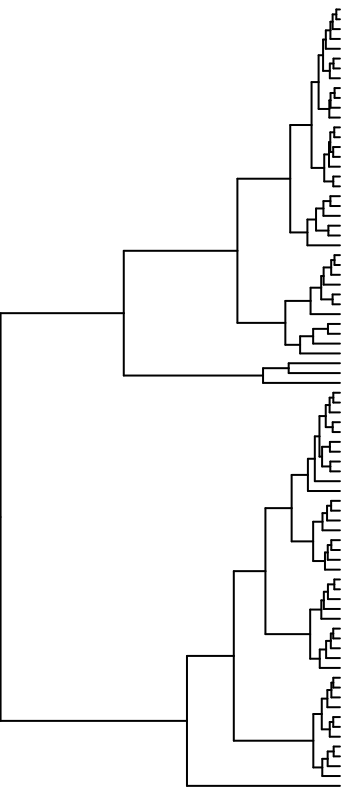
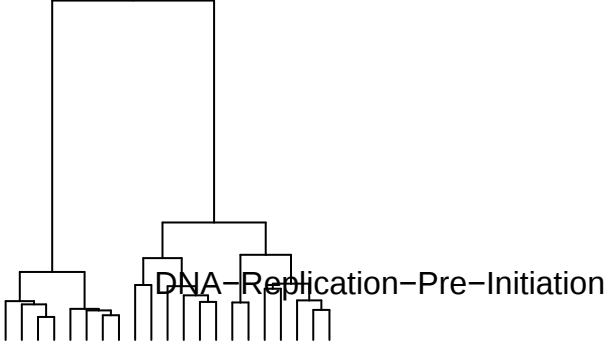
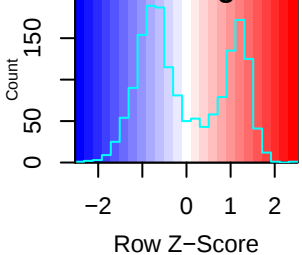
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y Mst1.TG2
y Mst1.TG3
y WT3
y WT1
o wt2
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o MstTg7
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Color Key and Histogram



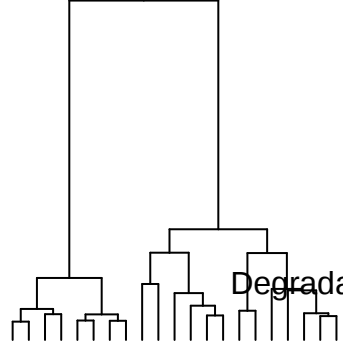
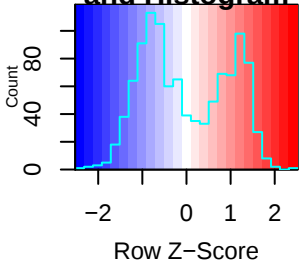
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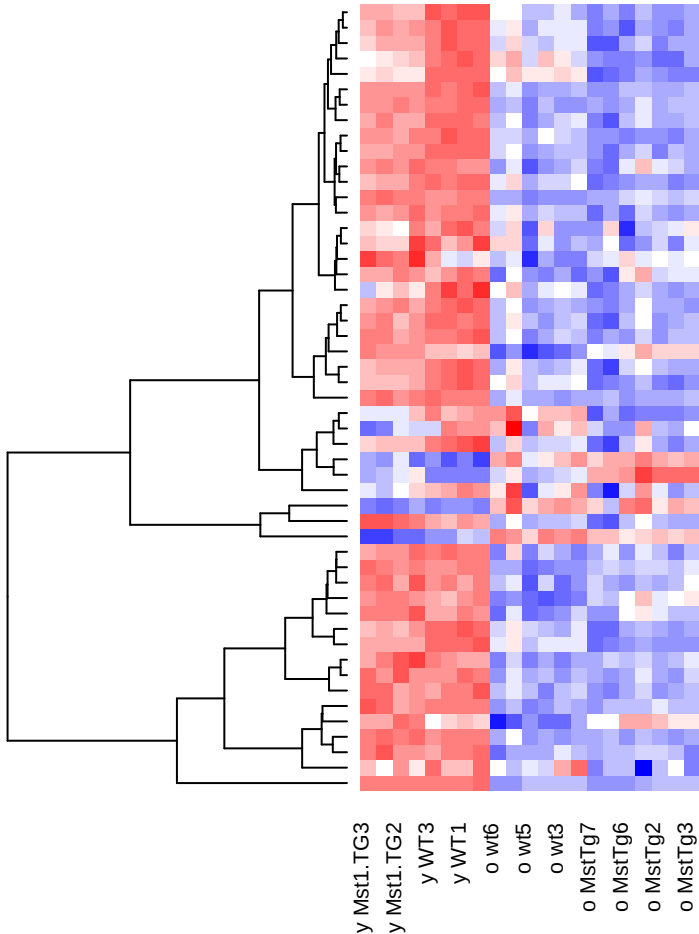
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y Mst1.TG3
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o wt6
o wt5
o wt1
o MstTg1
o MstTg6
o MstTg2
o MstTg3

Color Key
and Histogram



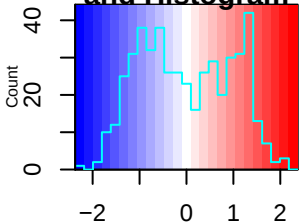
Degradation-of-AXIN



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- ENSMUSG000000022216.17 Psme1
- ENSMUSG000000027566.15 Psma7
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- ENSMUSG000000022193.7 Psmb5
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- ENSMUSG000000020708.12 Psmd5
- ENSMUSG000000030603.16 Psmd4
- ENSMUSG000000079652.0 Psme3
- ENSMUSG000000025487.15 Psmd13
- ENSMUSG000000021737.4 Psmd6
- ENSMUSG000000021832.8 Psmd6
- ENSMUSG000000060073.9 Psma3
- ENSMUSG000000018363.16 Smurf2
- ENSMUSG000000005625.15 Psmd4
- ENSMUSG000000028932.7 Psmd2
- ENSMUSG000000021178.9 Psmd1
- ENSMUSG000000005779.12 Psmb4
- ENSMUSG000000014769.10 Psmb1
- ENSMUSG000000030591.17 Psmd8
- ENSMUSG000000017221.14 Psmd3
- ENSMUSG000000026750.6 Psmb7
- ENSMUSG000000020460.15 Rps27a
- ENSMUSG000000024811.11 Trks2
- ENSMUSG000000026229.17 Psmd1
- ENSMUSG000000002102.15 Psmd3
- ENSMUSG000000031529.5 Trks2
- ENSMUSG000000017428.16 Psmd11
- ENSMUSG000000006998.16 Psmd2
- ENSMUSG000000008349.9 Ubc
- ENSMUSG000000019505.7 Ubb
- ENSMUSG000000040890.17 Psme4
- ENSMUSG000000038876.12 Rnf146
- ENSMUSG000000068749.9 Psma5
- ENSMUSG000000026914.15 Psmd14
- ENSMUSG000000031897.9 Psmd10
- ENSMUSG000000024182.16 Axin1
- ENSMUSG000000069744.7 Psmb3
- ENSMUSG000000028837.8 Psmb2
- ENSMUSG000000026869.12 Psmd5
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- ENSMUSG000000024338.15 Psmb8
- ENSMUSG00000000142.15 Axin2
- ENSMUSG000000031429.14 Psmd10
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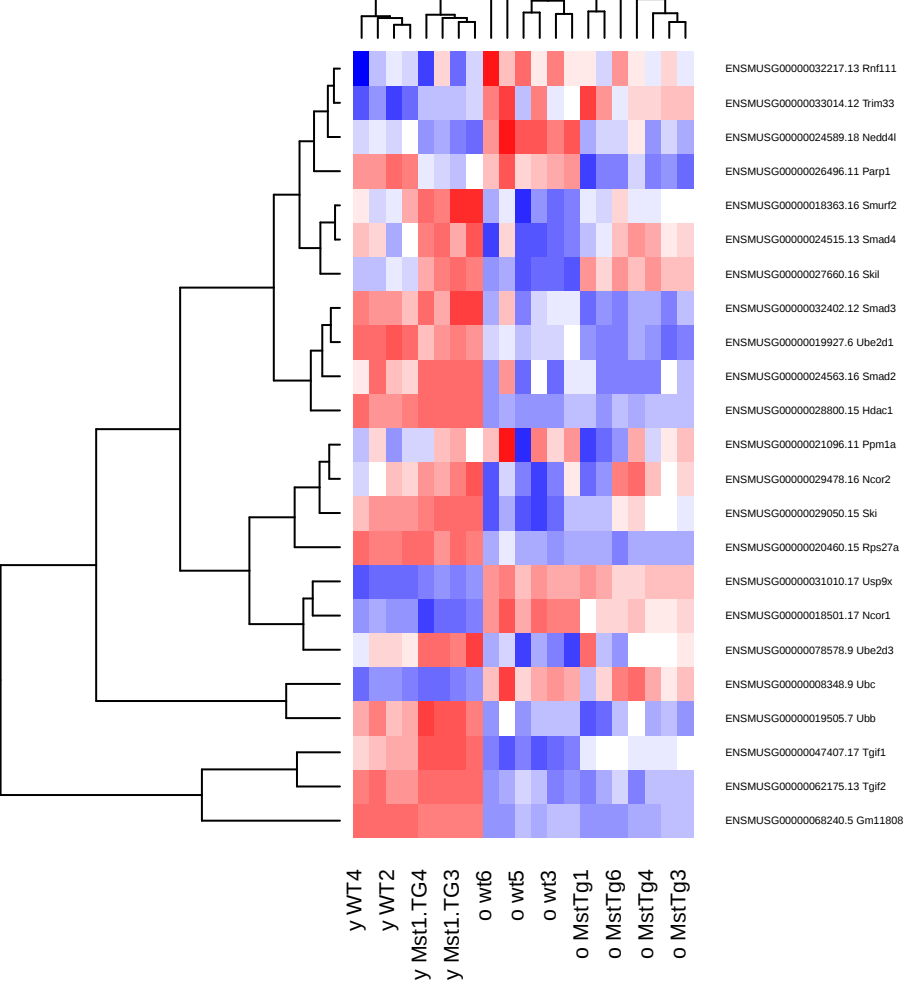
Color Key

and Histogram

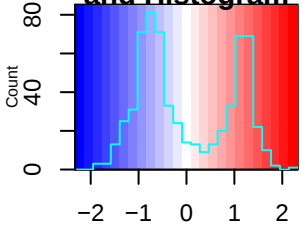


Row Z-Score

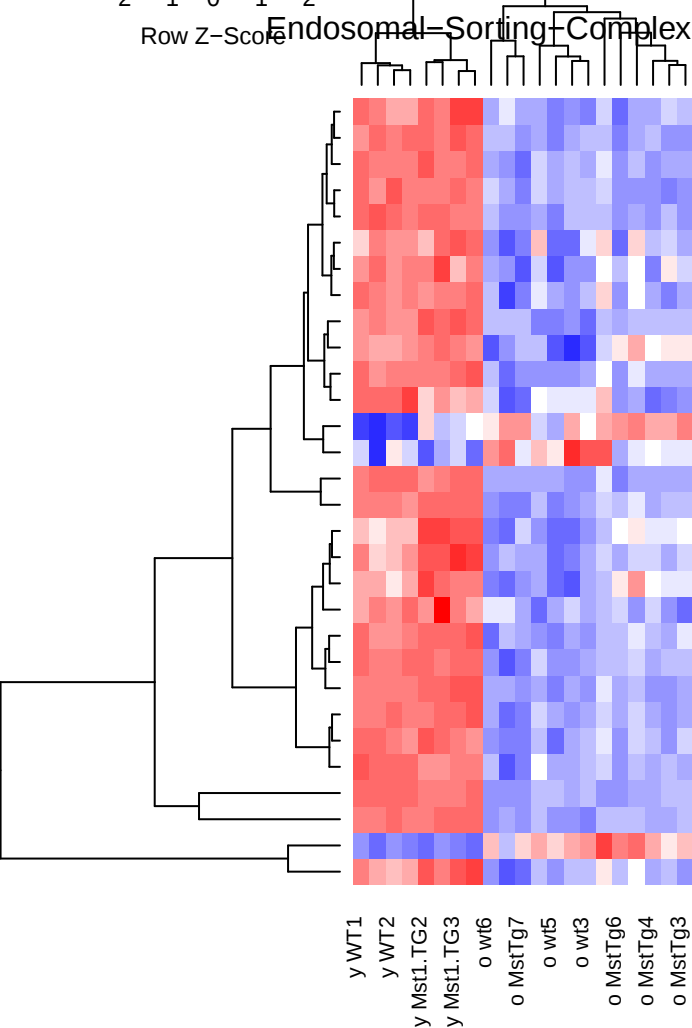
Downregulation of SMAD2/3:SMAD4-transcriptional-activity



Color Key and Histogram

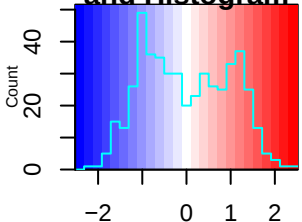


Endosomal-Sorting-Complex-Required-For-Transport-(ESCRT)

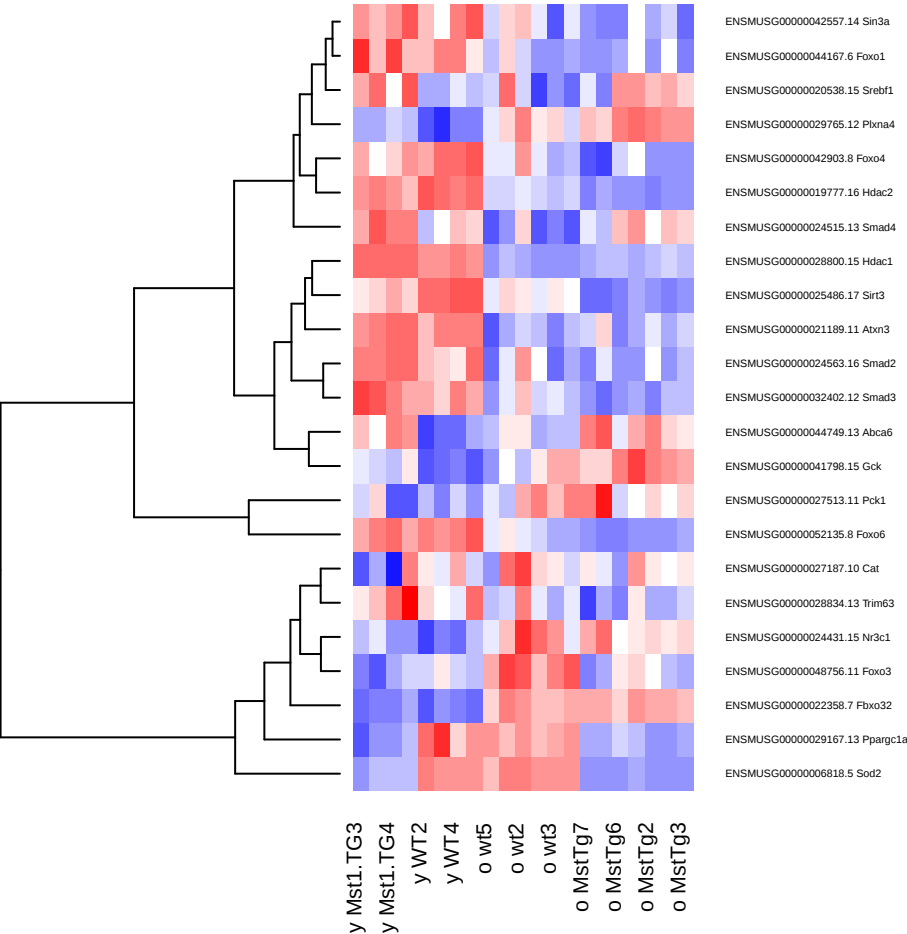


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- ENSMUSG00000078656.11 Vps25
- ENSMUSG000000031479.9 Vps36
- ENSMUSG00000014402.15 Tsg101
- ENSMUSG000000038740.9 Mvb12b
- ENSMUSG000000028437.14 Ubap1
- ENSMUSG000000115987.1 Vps28
- ENSMUSG000000053119.11 Chmp3
- ENSMUSG000000034190.9 Chmp7
- ENSMUSG000000033916.5 Chmp2a
- ENSMUSG000000031913.9 Vps4a
- ENSMUSG000000027536.6 Chmp4c
- ENSMUSG000000031600.11 Vps37a
- ENSMUSG000000020460.15 Rps27a
- ENSMUSG000000038467.15 Chmp4b
- ENSMUSG0000000048832.9 Vps37c
- ENSMUSG000000055371.17 Stam2
- ENSMUSG000000025793.17 Hgs
- ENSMUSG000000026718.17 Stam
- ENSMUSG000000066278.6 Vps37b
- ENSMUSG000000025371.12 Chmp6
- ENSMUSG000000028419.5 Chmp5
- ENSMUSG000000006058.10 Snf8
- ENSMUSG000000019868.16 Vta1
- ENSMUSG000000031813.8 Mvb12a
- ENSMUSG000000068240.5 Gm11808
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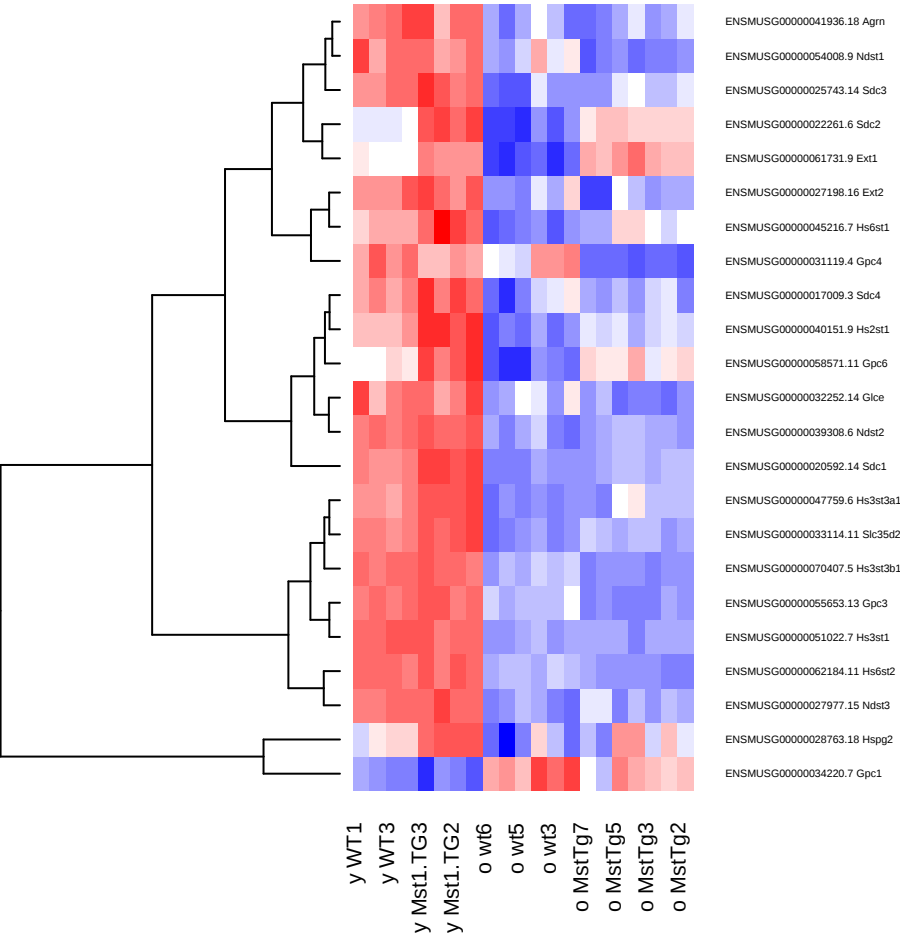
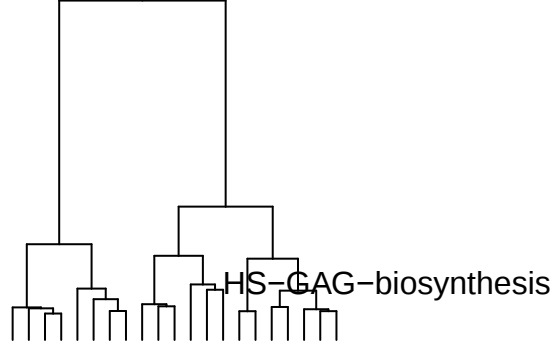
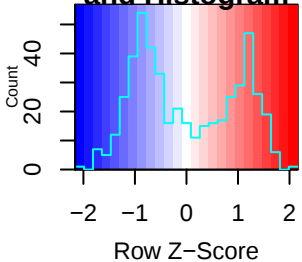
Color Key
and Histogram



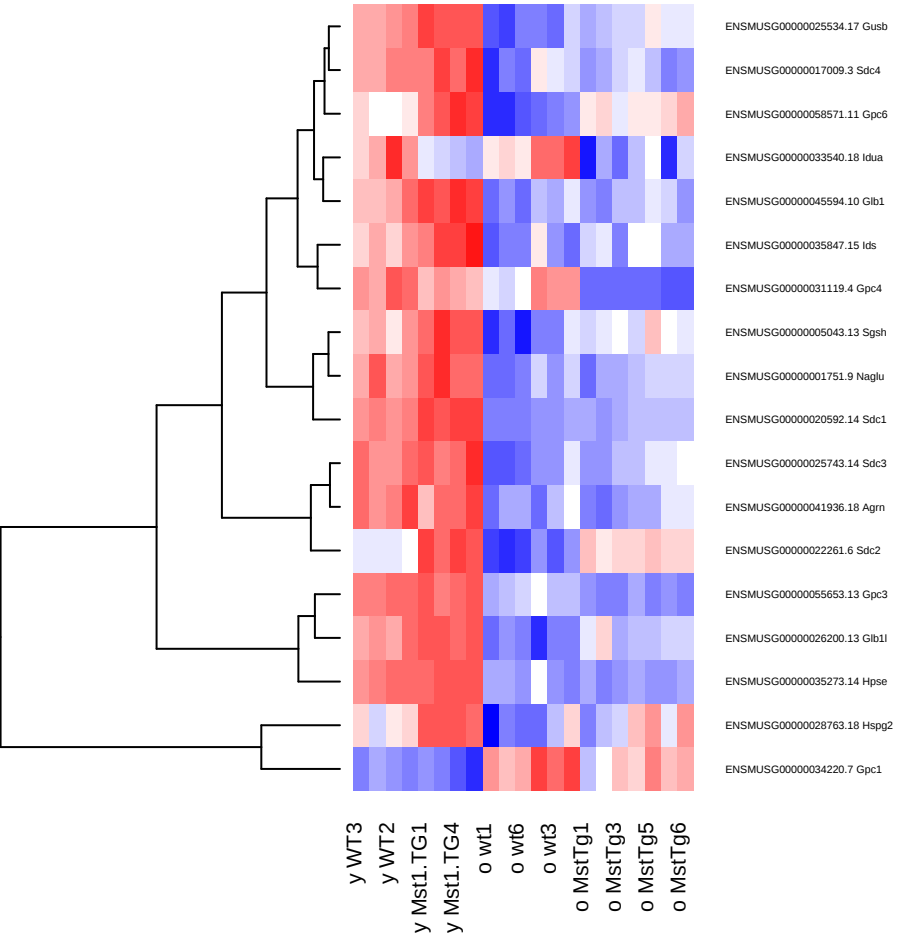
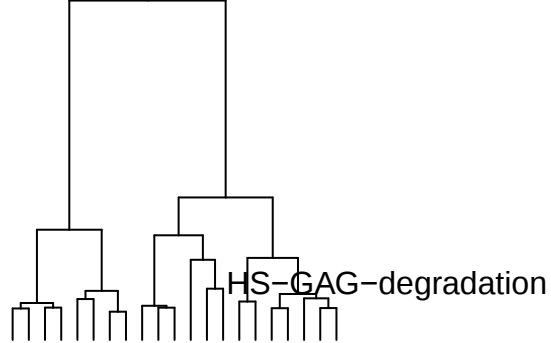
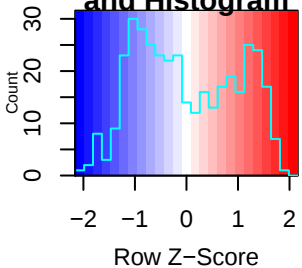
FOXO-mediated transcription of oxidative-stress,-metabolic-and-neuronal-genes



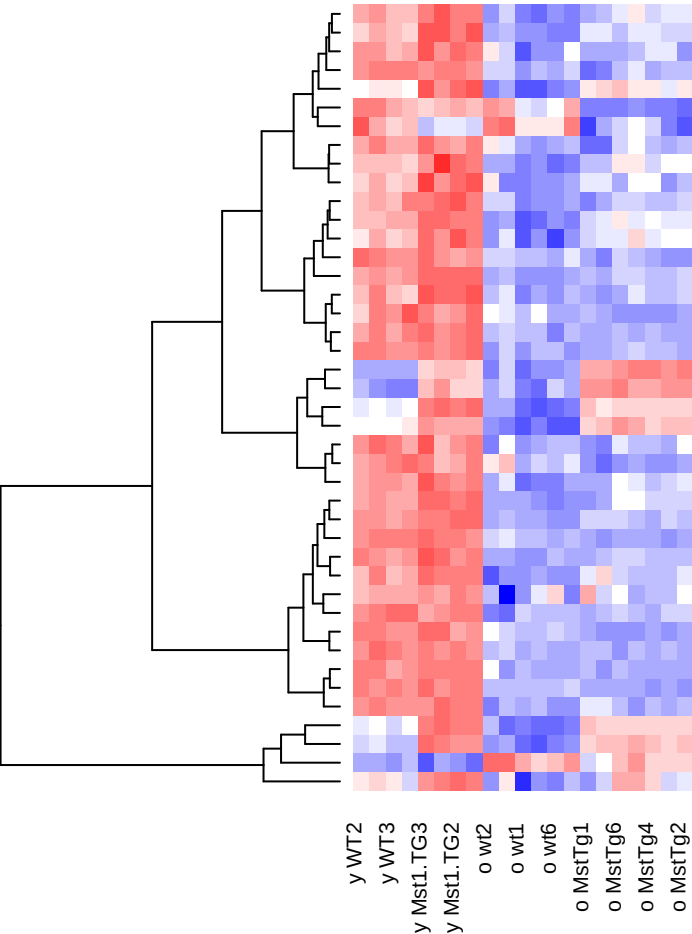
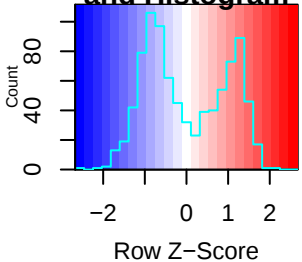
Color Key and Histogram



Color Key and Histogram

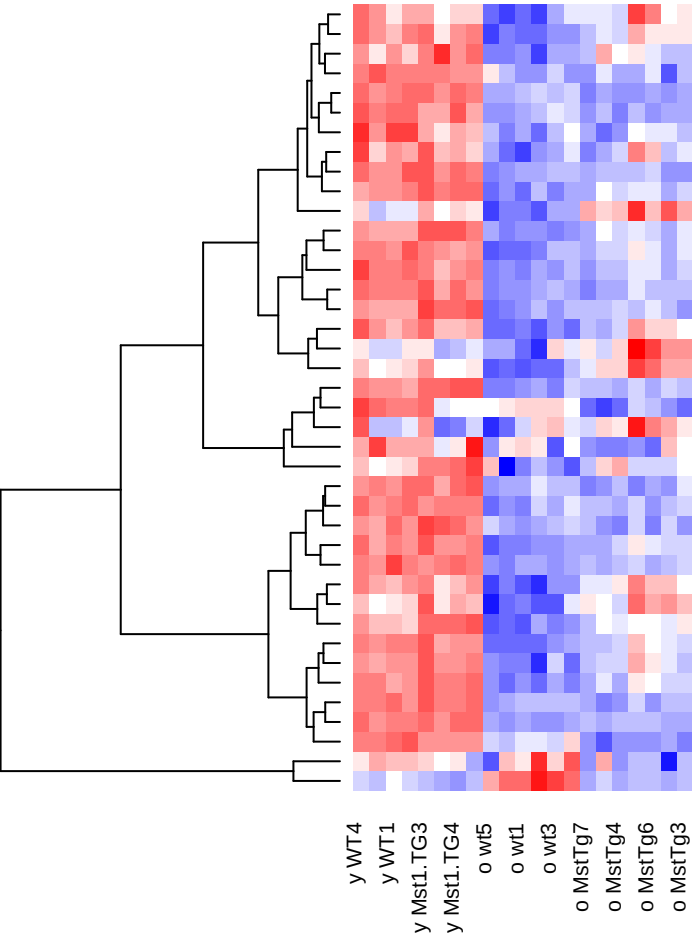
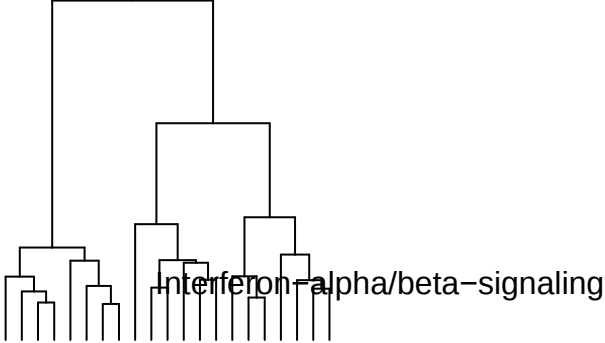
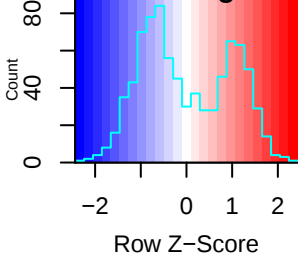


Color Key
and Histogram



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ENSMUSG000000071649.6 B3gat3
ENSMUSG000000058571.11 Gpc6
ENSMUSG000000031119.4 Gpc4
ENSMUSG000000033540.18 Idua
ENSMUSG000000027198.16 Ext2
ENSMUSG000000045216.7 Hs6st1
ENSMUSG000000035847.15 Ids
ENSMUSG000000001751.9 Naglu
ENSMUSG000000030657.11 Xylt1
ENSMUSG000000005043.13 Sgsh
ENSMUSG000000021504.14 B4gal7
ENSMUSG000000020592.14 Sdc1
ENSMUSG000000045594.10 Glb1
ENSMUSG000000032252.14 Glce
ENSMUSG000000020868.15 Xylt2
ENSMUSG000000039308.6 Ndst2
ENSMUSG000000032911.6 Cspg4
ENSMUSG000000021614.16 Vcan
ENSMUSG000000022261.6 Sdc2
ENSMUSG000000061731.9 Ext1
ENSMUSG000000041936.18 Agrn
ENSMUSG000000054008.9 Ndst1
ENSMUSG000000025743.14 Sdc3
ENSMUSG000000047759.6 Hs3st3a1
ENSMUSG000000033114.11 Sic35d2
ENSMUSG000000070407.5 Hs3st3b1
ENSMUSG000000050796.4 B3gal6
ENSMUSG000000026200.13 Glib1
ENSMUSG000000026156.8 B3gat2
ENSMUSG000000032482.9 Cspg5
ENSMUSG000000055653.13 Gpc3
ENSMUSG000000051022.7 Hs3st1
ENSMUSG000000035273.14 Hpse
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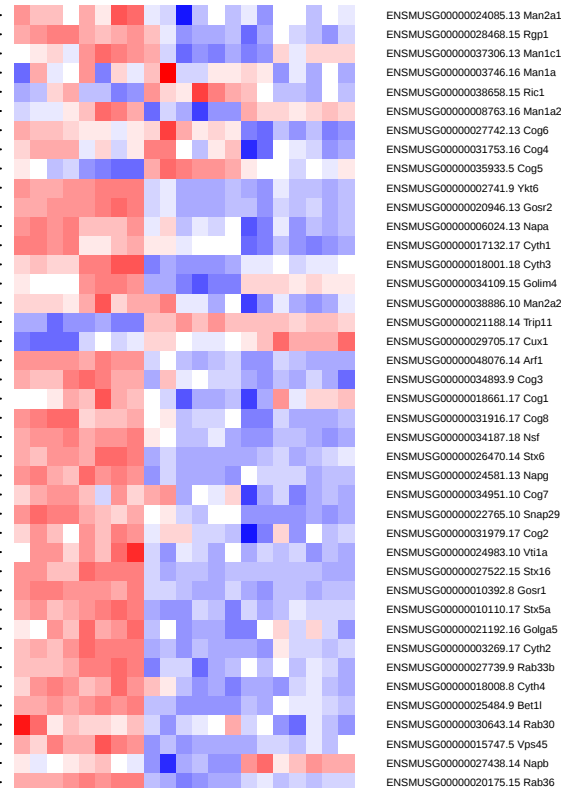
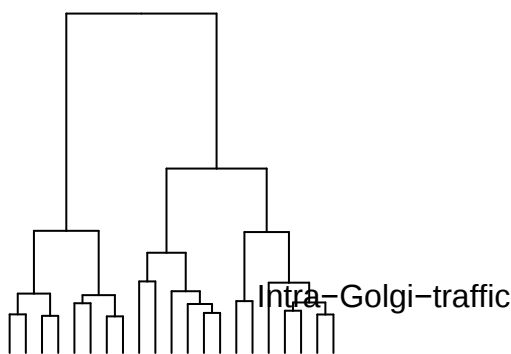
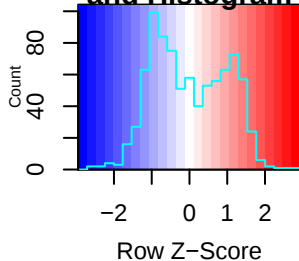
Color Key
and Histogram



- ENSMUSG000000040033.16 Stat2
- ENSMUSG000000002325.15 Irf9
- ENSMUSG000000032175.11 Tky2
- ENSMUSG000000003184.15 Irf3
- ENSMUSG0000000022971.18 Ilnar2
- ENSMUSG000000018899.16 Irf1
- ENSMUSG000000020641.16 Rsd2
- ENSMUSG000000027951.16 Adar
- ENSMUSG000000031627.9 Irf2
- ENSMUSG000000027540.13 Ptpn1
- ENSMUSG000000045932.12 Irf2
- ENSMUSG000000032599.12 Ipk2
- ENSMUSG000000010358.13 Irf35
- ENSMUSG000000046718.8 Bst2
- ENSMUSG000000024338.15 Psmb8
- ENSMUSG000000041515.10 Irf8
- ENSMUSG000000040483.15 Xaf1
- ENSMUSG000000032690.16 Oas2
- ENSMUSG000000025498.15 Irf7
- ENSMUSG000000022967.13 Ilnar1
- ENSMUSG000000027639.16 Samhd1
- ENSMUSG000000026104.14 Stat1
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- ENSMUSG000000038418.7 Egr1
- ENSMUSG000000053113.3 Soc3
- ENSMUSG000000004266.15 Ptpn6
- ENSMUSG0000000066800.11 Rnael
- ENSMUSG000000035692.7 Isq15
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- ENSMUSG000000062488.9 Irf3b
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Color Key

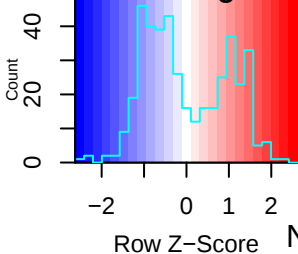
and Histogram



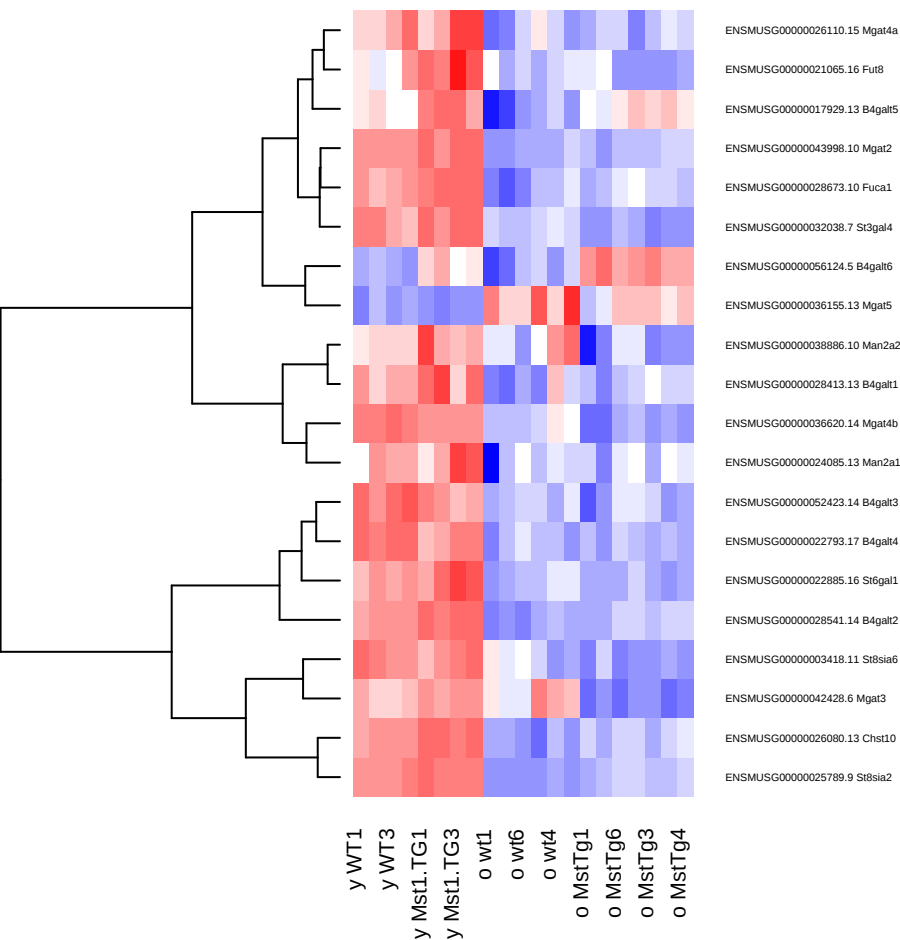
y WT2
y WT4
y Mst1.TG2
y Mst1.TG3
o wt4
o wt1
o wt6
o MstTg1
o MstTg5
o MstTg3
o MstTg6

Color Key

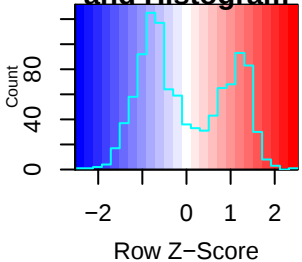
and Histogram



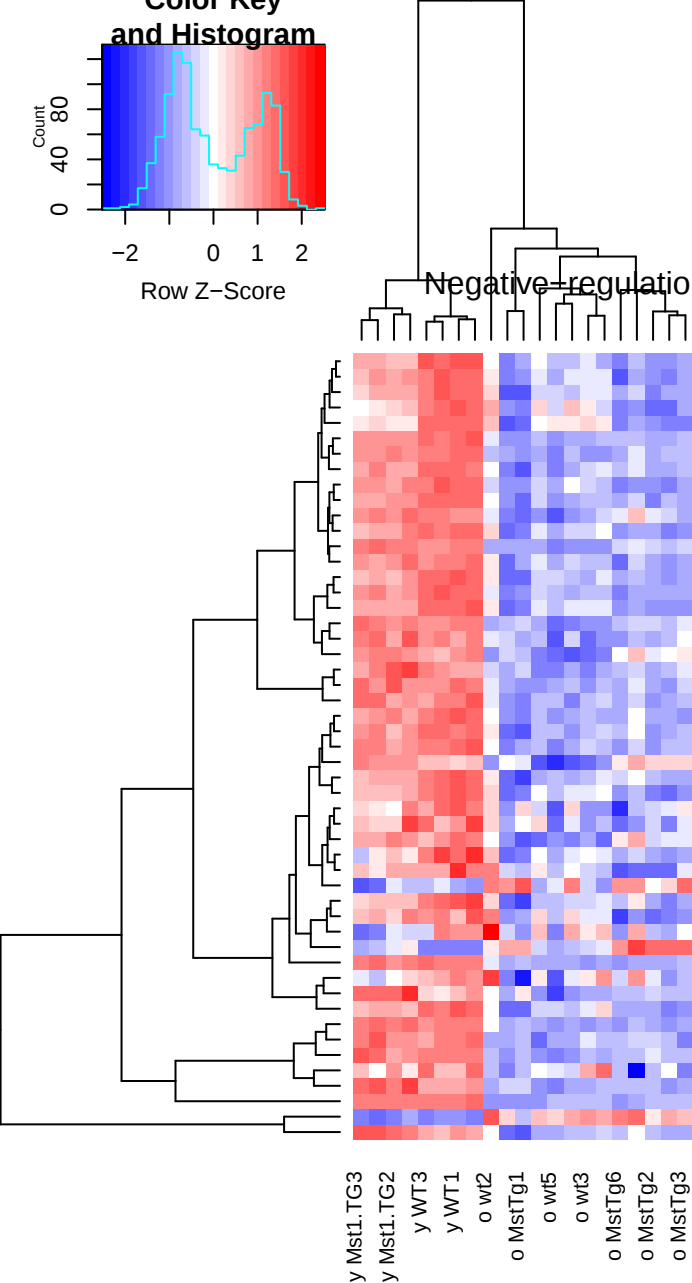
N-glycan+antennae-elongation-in-the-medial/trans-Golgi



Color Key
and Histogram

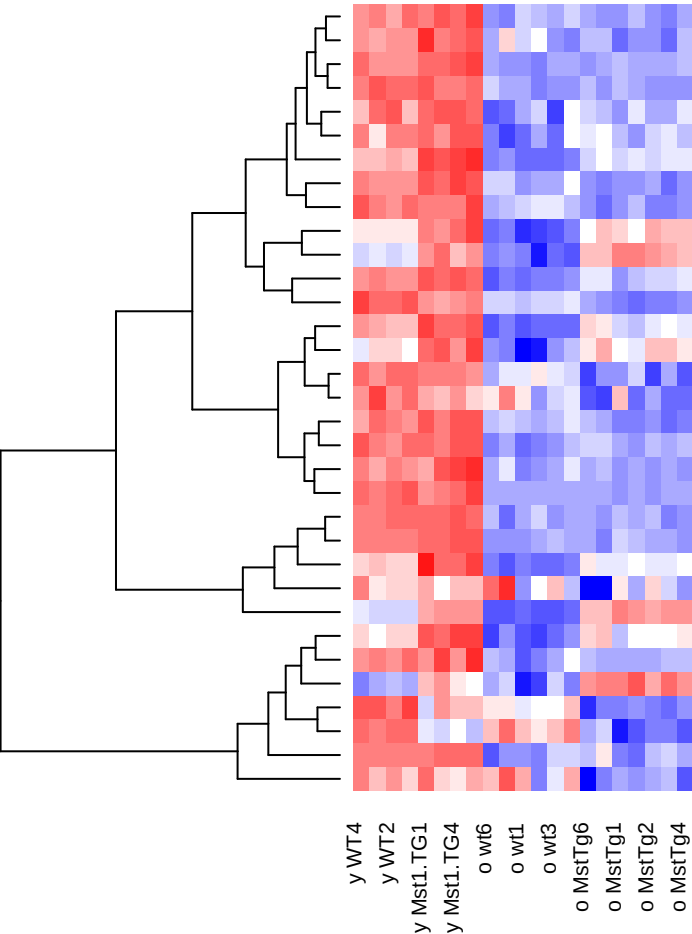
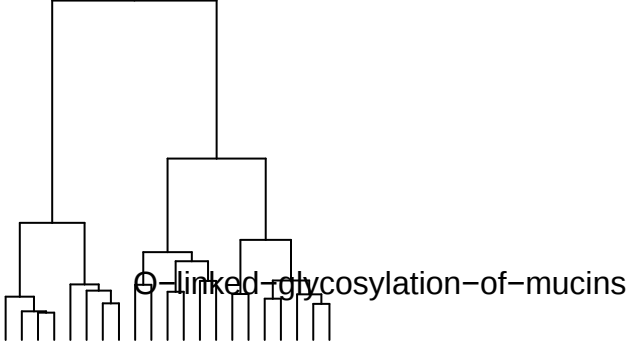
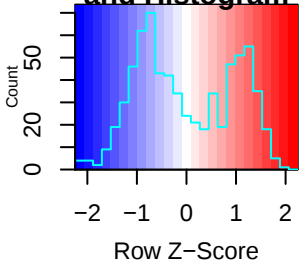


Negative-regulation-of-NOTCH4-signaling



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ENSMUSG00000022216.17 Psme1
ENSMUSG00000027566.15 Pasma7
ENSMUSG00000039067.5 Psmd7
ENSMUSG00000022193.7 Psmb5
ENSMUSG00000032301.13 Pasma4
ENSMUSG00000020706.12 Psme5
ENSMUSG00000030603.16 Psmb4
ENSMUSG00000079652.0 Psme3
ENSMUSG00000025487.15 Psmd13
ENSMUSG00000021737.4 Psmd6
ENSMUSG00000069744.7 Psmb3
ENSMUSG00000022400.8 Rtbx1
ENSMUSG00000028837.8 Psmb2
ENSMUSG00000068749.9 Pasma5
ENSMUSG00000026914.15 Psmd14
ENSMUSG00000031897.9 Psmb10
ENSMUSG00000026869.12 Psmd5
ENSMUSG00000032869.15 Psmb1
ENSMUSG00000029440.15 Psmd9
ENSMUSG00000021178.9 Psmb1
ENSMUSG00000005779.12 Psmb4
ENSMUSG00000014769.10 Psmb1
ENSMUSG00000030591.17 Psmd8
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ENSMUSG00000026750.6 Psmb7
ENSMUSG00000021832.8 Psmb6
ENSMUSG00000060073.9 Pasma3
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ENSMUSG00000028932.7 Psmb2
ENSMUSG00000029686.15 Ctl1
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ENSMUSG00000017428.16 Psmd11
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ENSMUSG00000069998.16 Psmd2
ENSMUSG00000022285.17 Ywhaz
ENSMUSG0000001729.14 Akt1
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ENSMUSG00000096727.3 Psmb9
ENSMUSG00000024338.15 Psmb8
ENSMUSG00000078153.3 Psme2b
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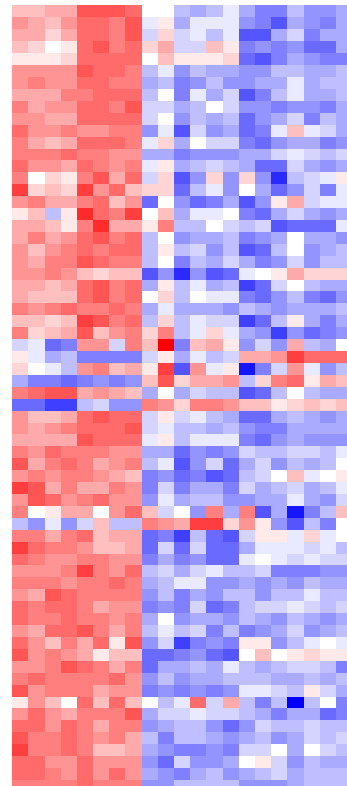
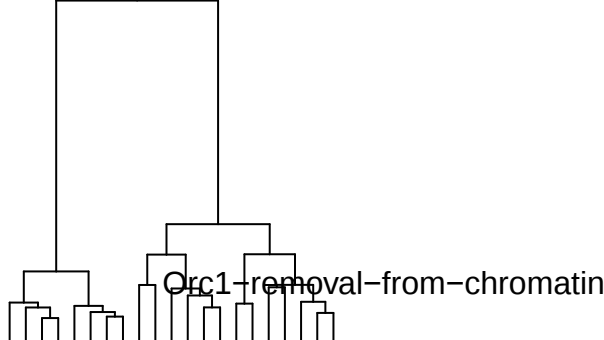
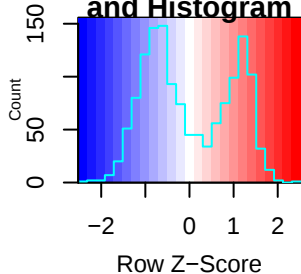
Color Key
and Histogram



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Color Key

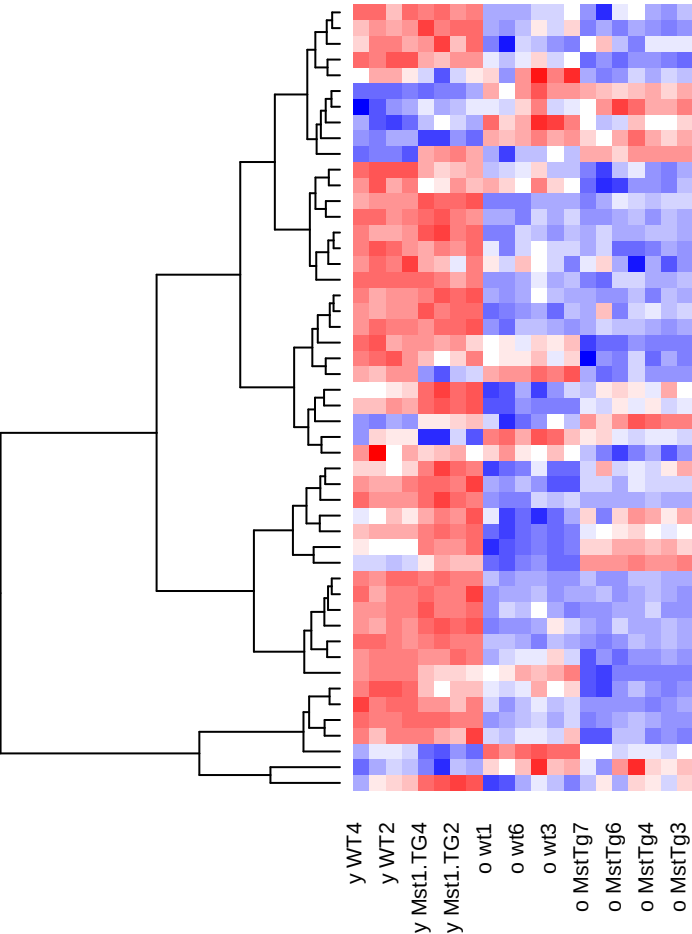
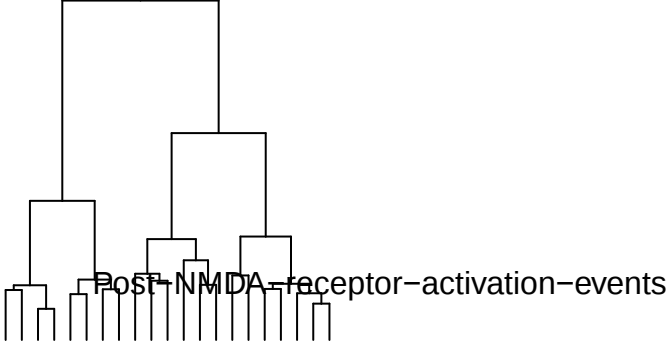
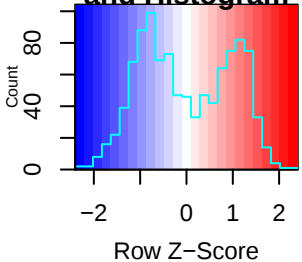
and Histogram



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ENSMUSG000000022216.17 PsmE1
ENSMUSG000000027566.15 PsmA7
ENSMUSG000000039067.5 PsmD7
ENSMUSG000000022193.7 PsmB5
ENSMUSG000000032301.13 PsmA4
ENSMUSG000000020708.12 PsmC5
ENSMUSG000000030603.16 PsmC4
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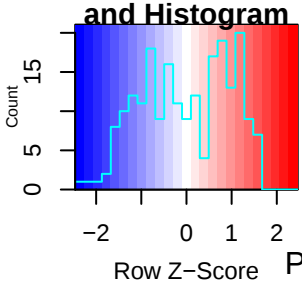
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y Mst1.TG3
y WT4
y WT3
o wif6
o wif5
o wif1
o MstTg1
o MstTg6
o MstTg2
o MstTg3

Color Key
and Histogram

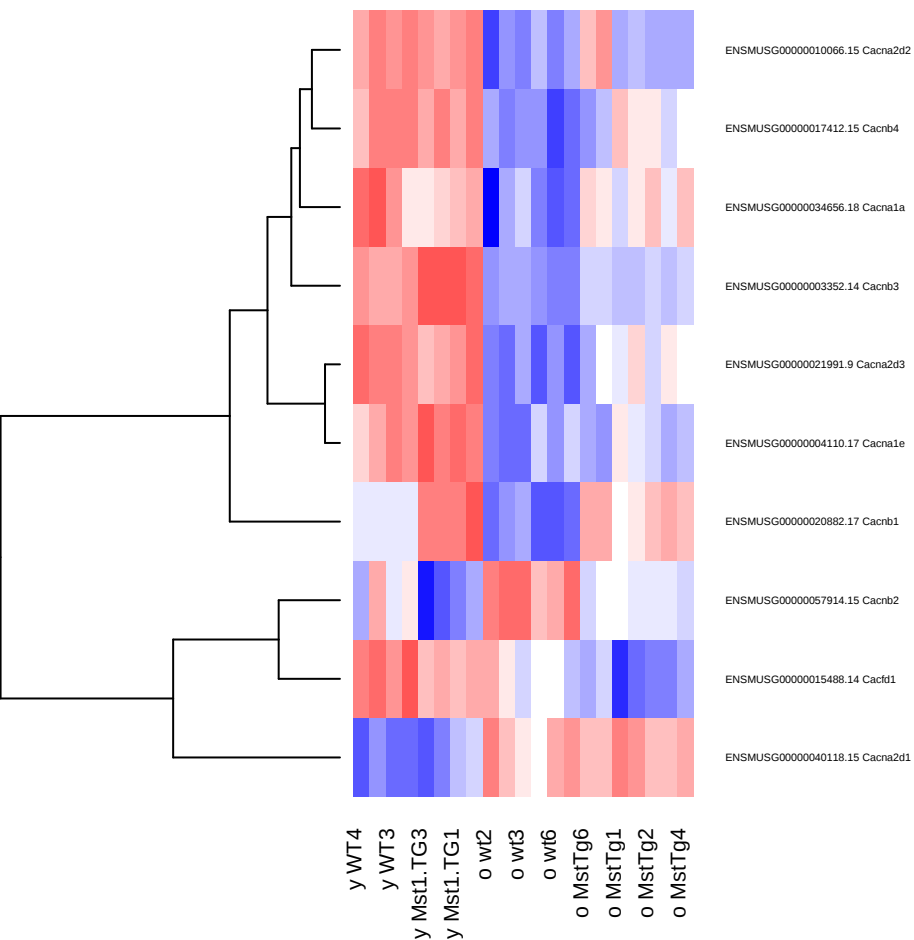


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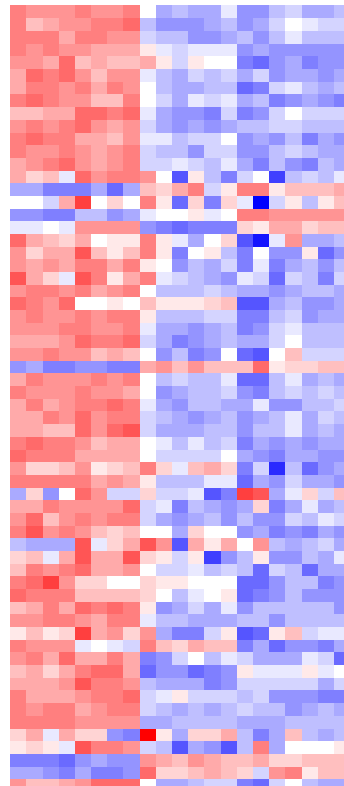
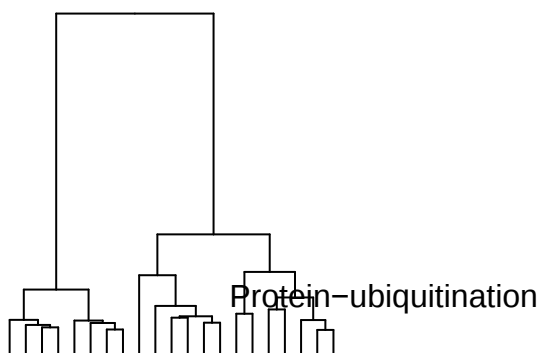
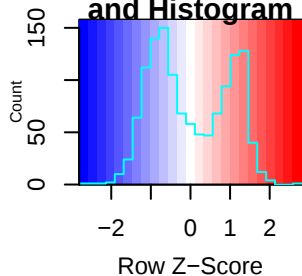
Color Key
and Histogram



Presynaptic depolarization and calcium-channel-opening



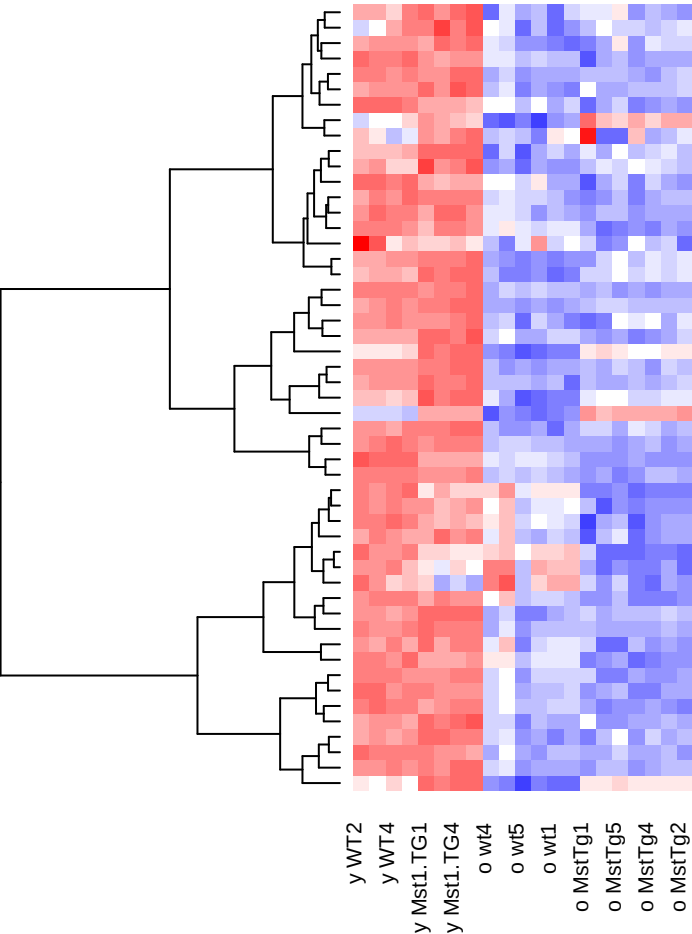
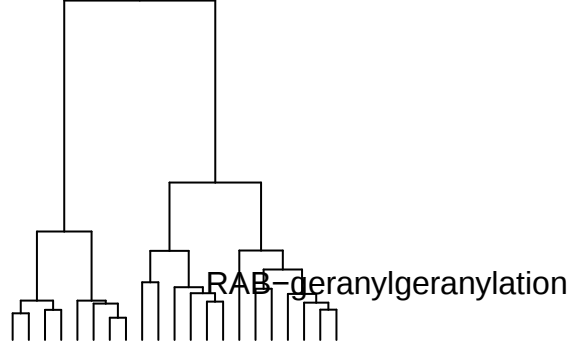
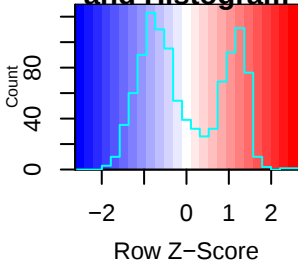
Color Key and Histogram



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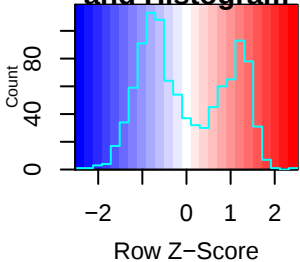
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o MstTg3

Color Key
and Histogram

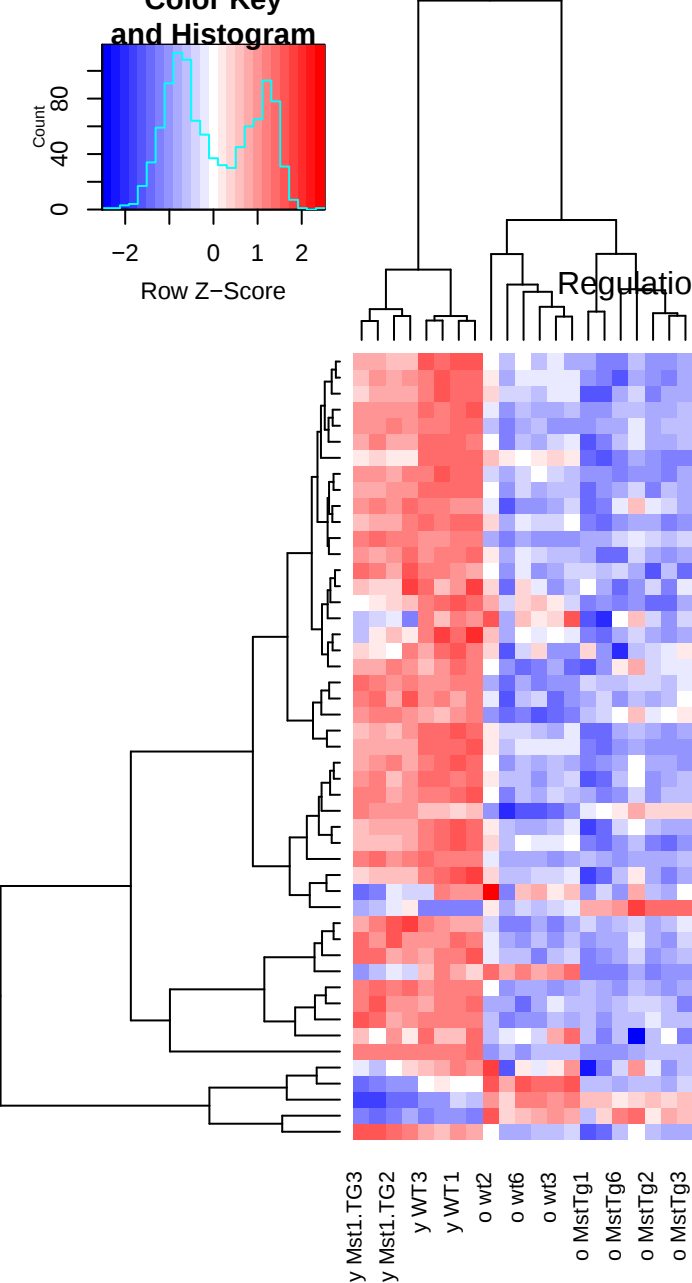


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Color Key
and Histogram

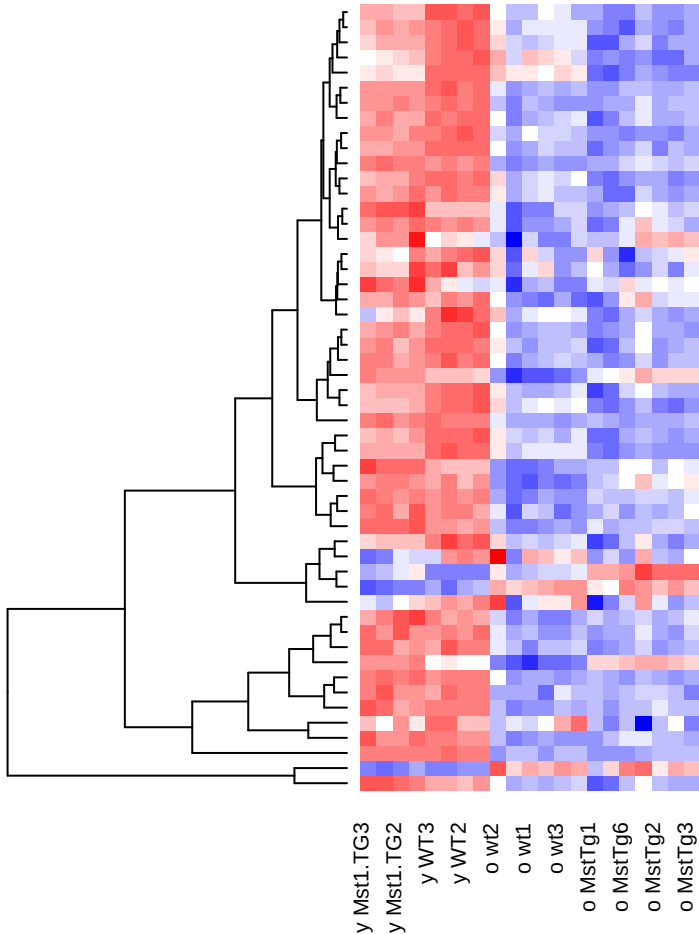
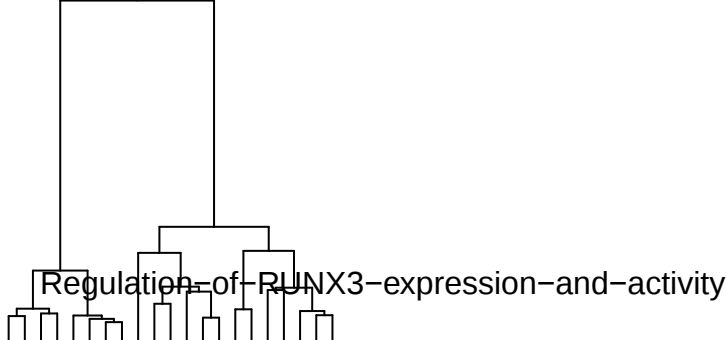
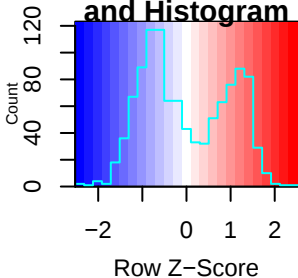


Regulation-of-Apoptosis



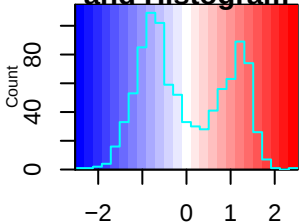
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ENSMUSG000000025487.15 PsmD13
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Color Key
and Histogram

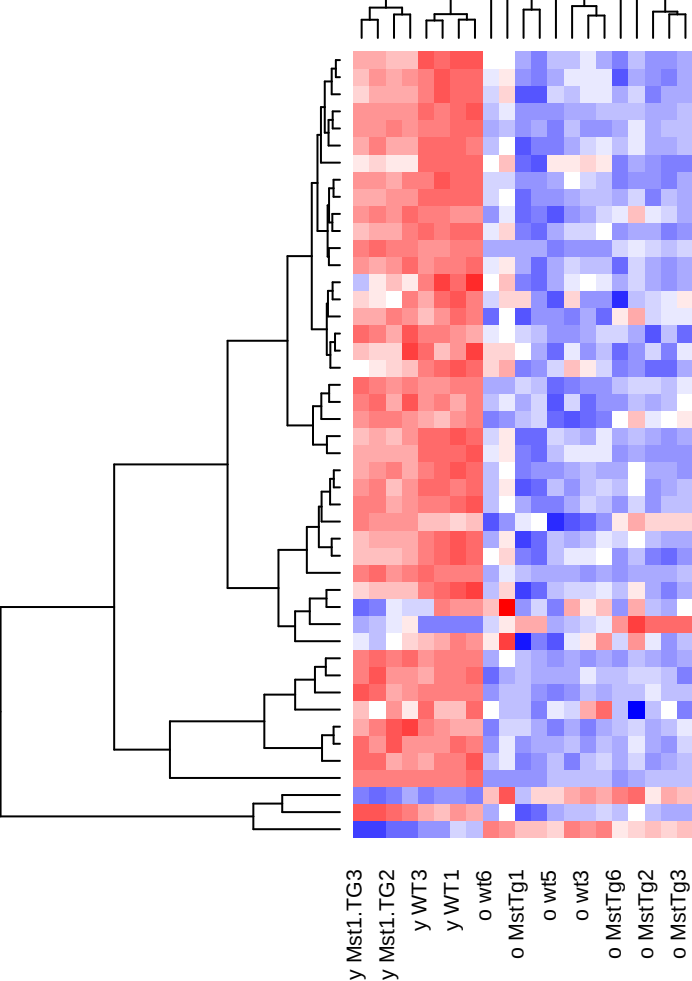


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Color Key and Histogram

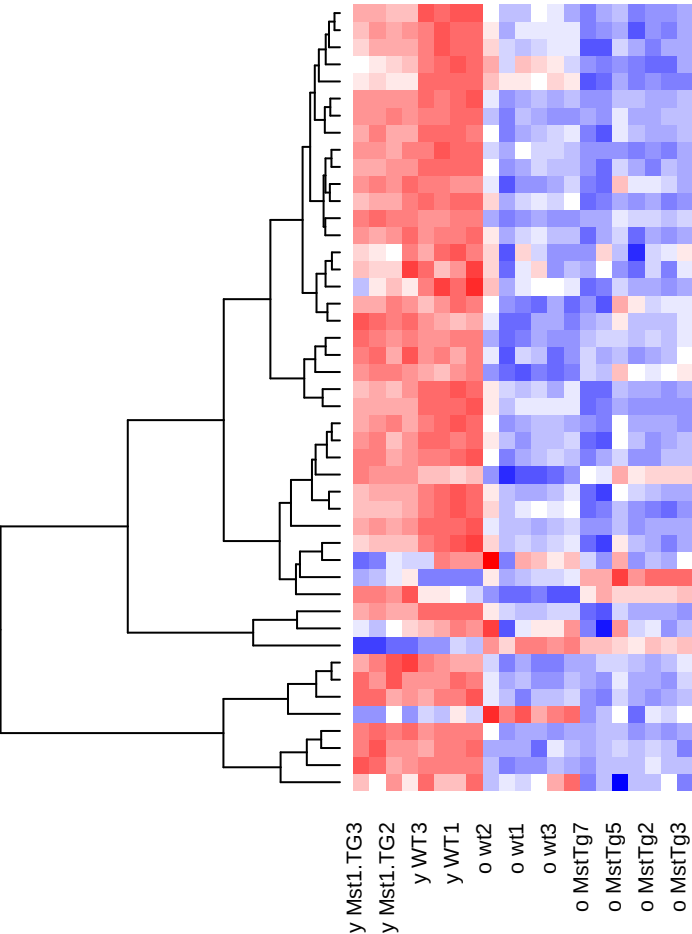
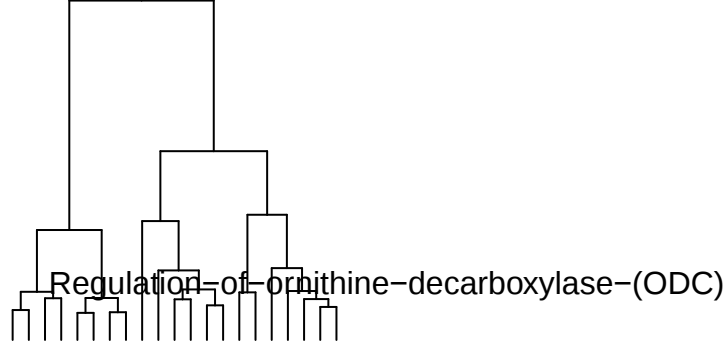
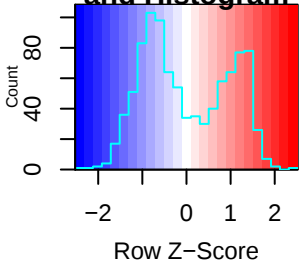


Regulation of activated-PAK-2p34-by-proteasome-mediated-degradation



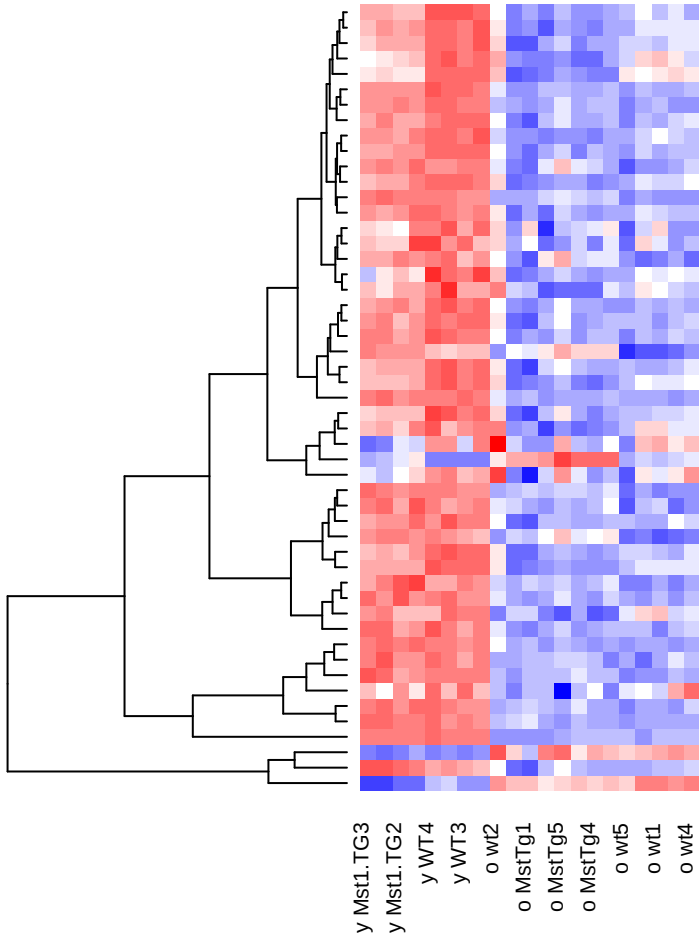
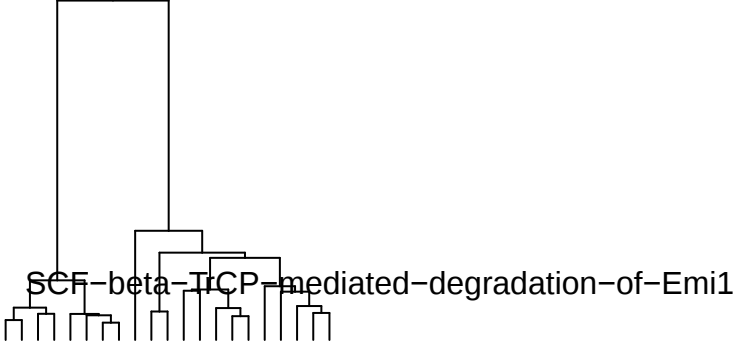
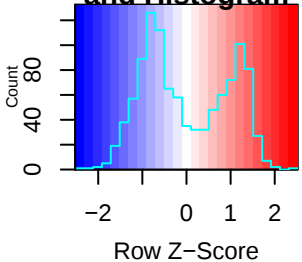
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- ENSMUSG000000029440.15 PsmD9
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Color Key
and Histogram



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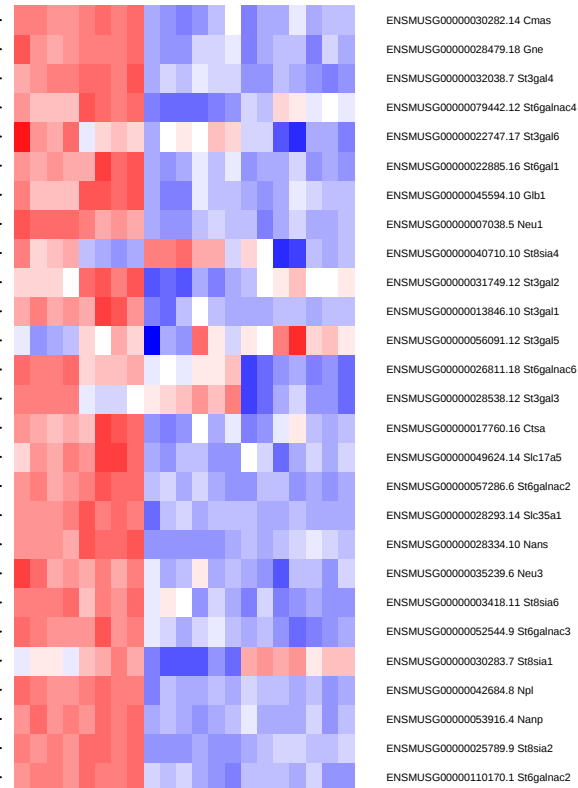
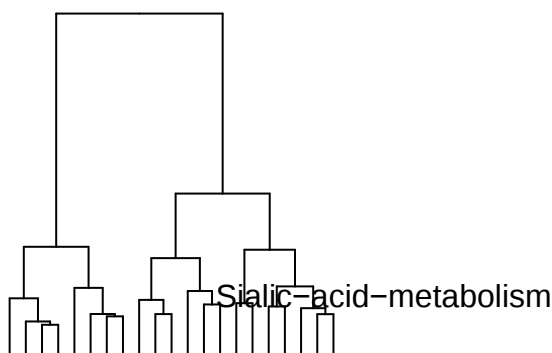
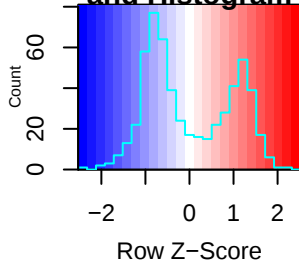
Color Key
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Color Key

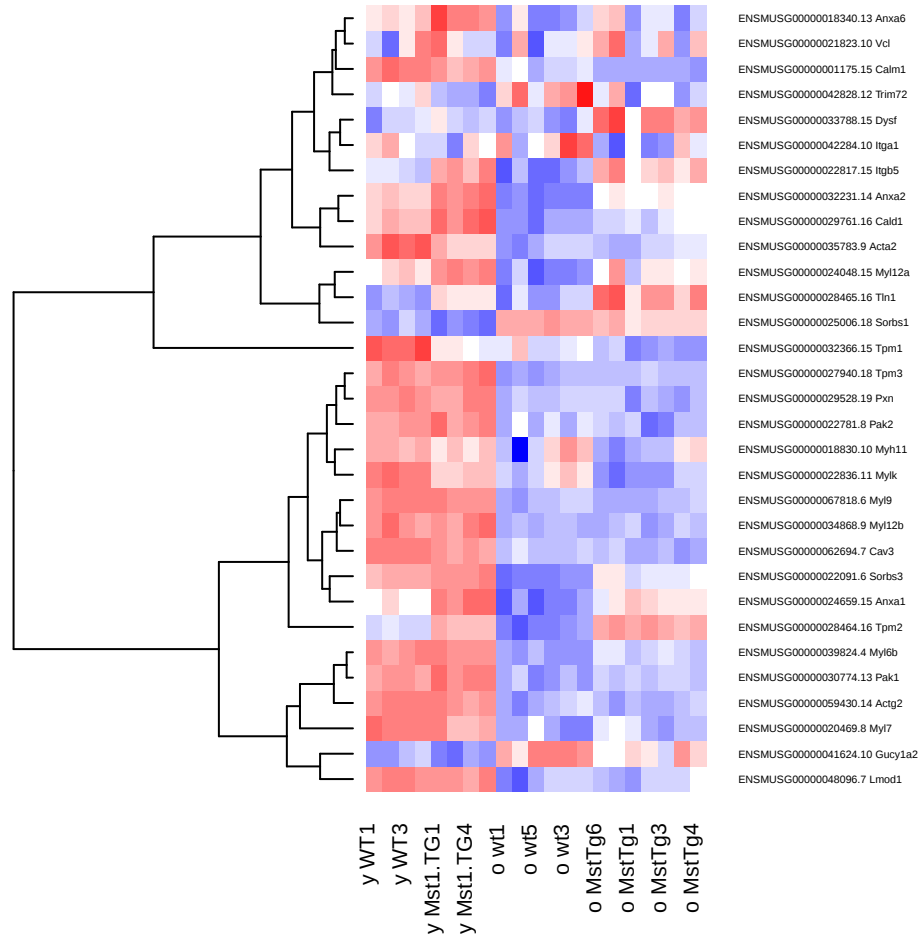
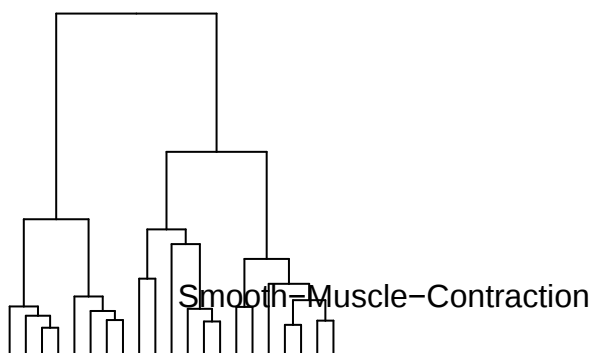
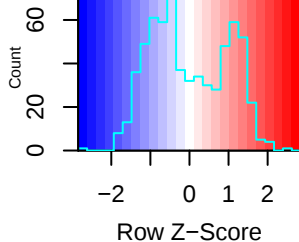
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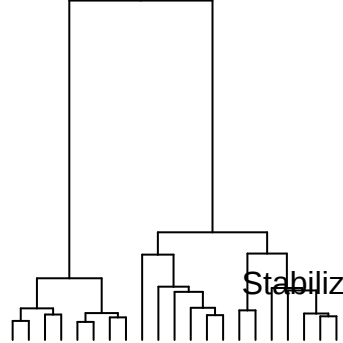
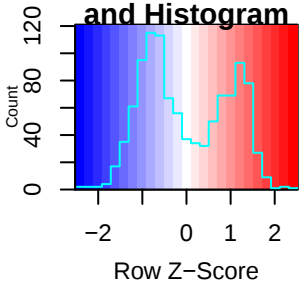
y WT4
y WT2
y Mst1.TG1
y Mst1.TG2
o wt5
o wt6
o wt3
o MstTg1
o MstTg6
o MstTg2
o MstTg4

Color Key

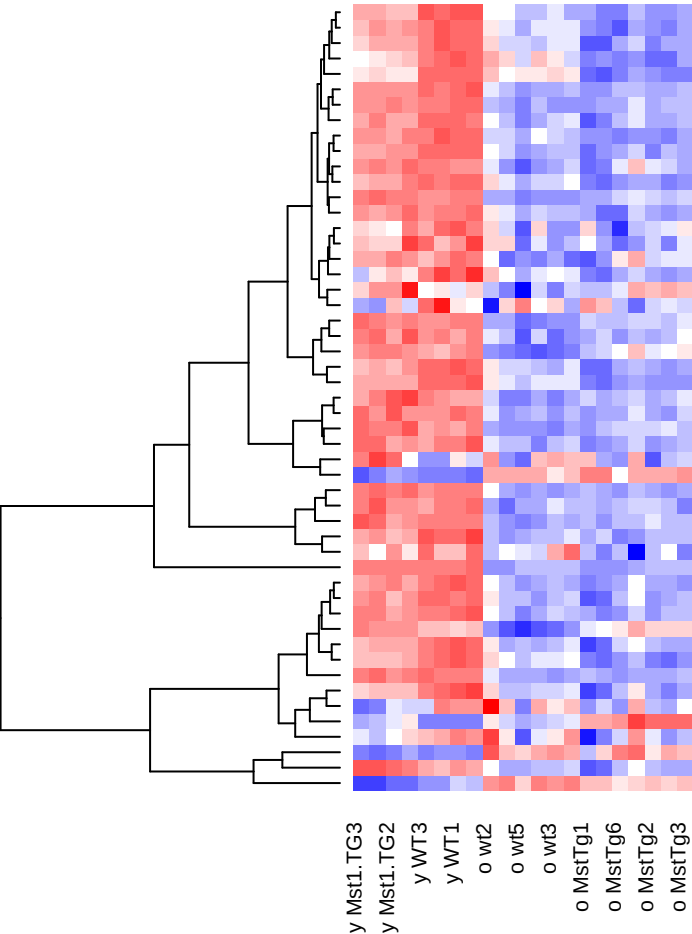
and Histogram



Color Key
and Histogram

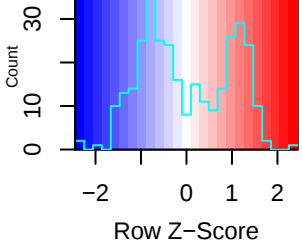


Stabilization-of-p53

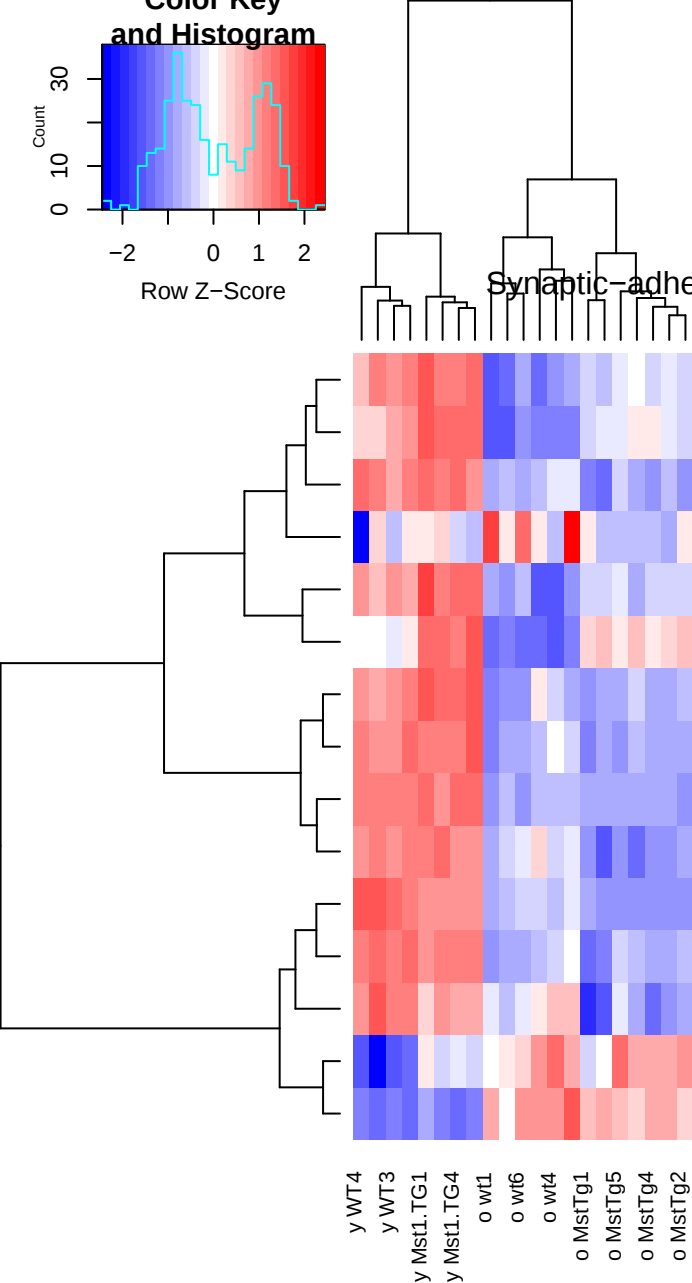


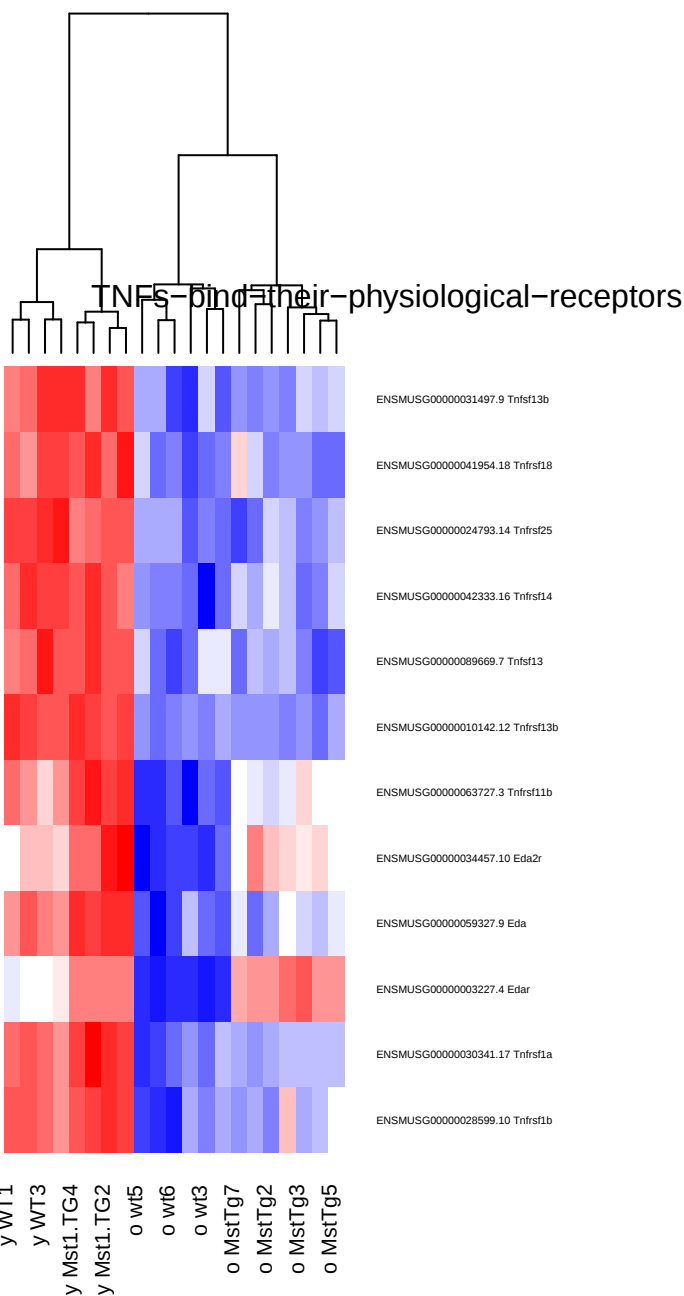
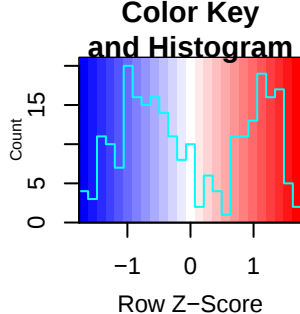
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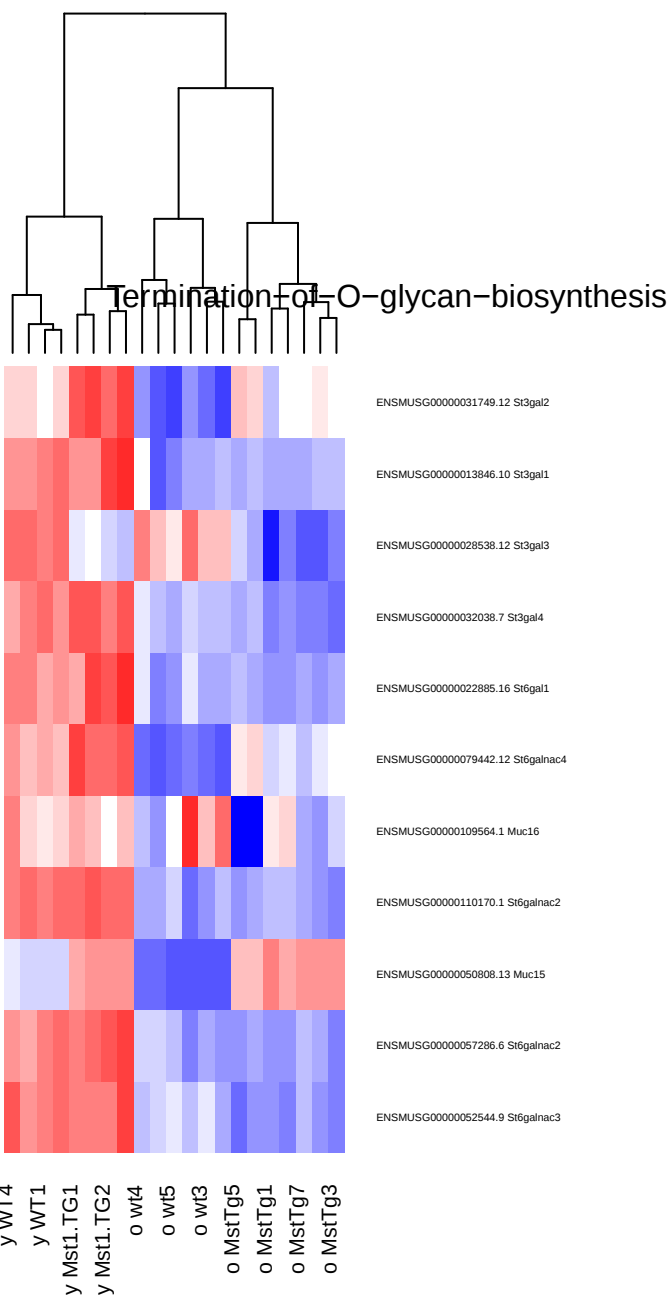
Color Key and Histogram



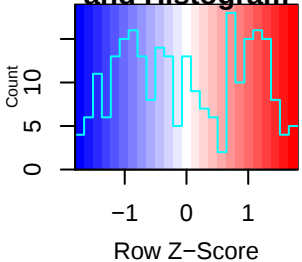
Synaptic-adhesion-like-molecules



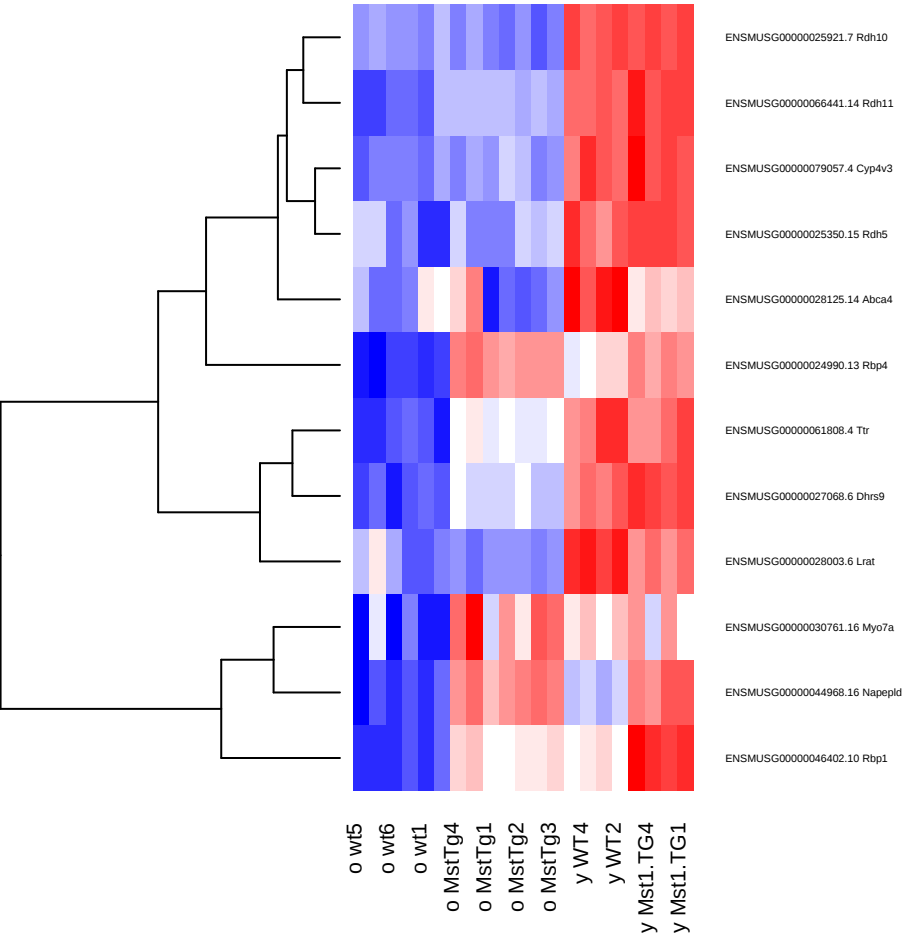




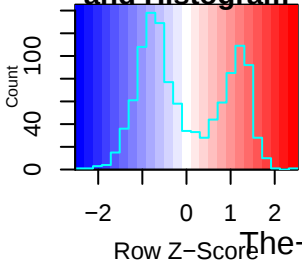
Color Key
and Histogram



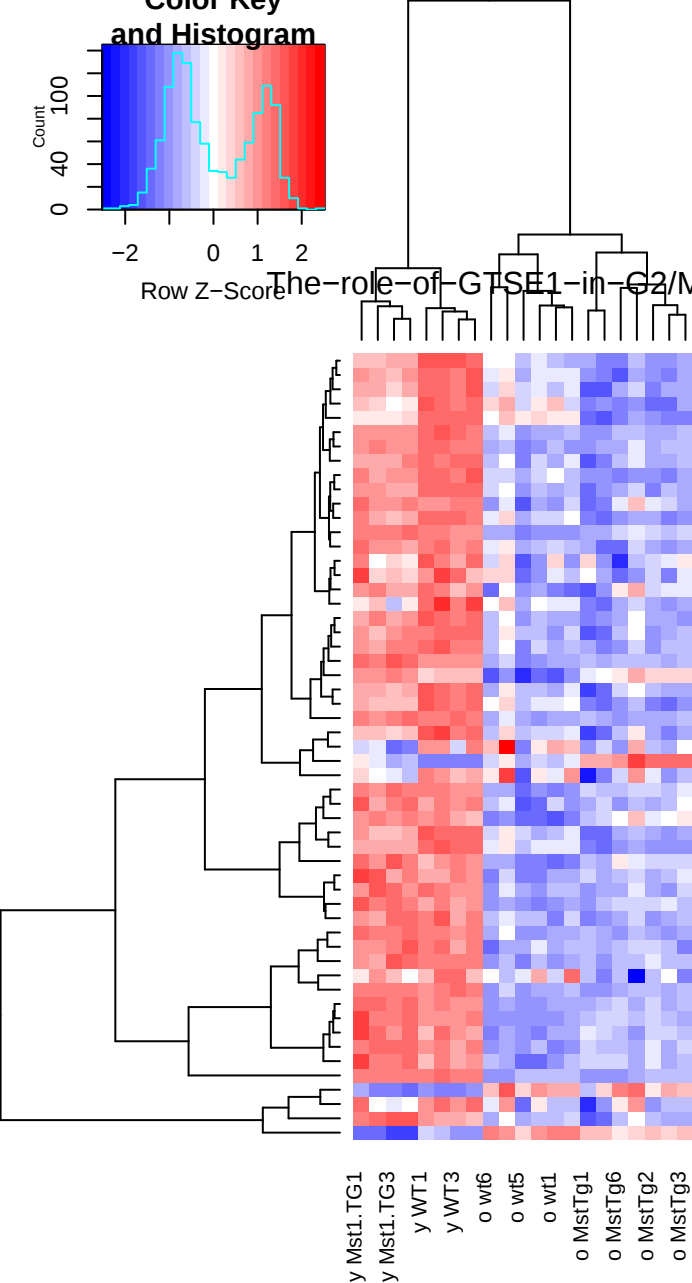
The canonical retinoid cycle in rods (twilight vision)



Color Key
and Histogram

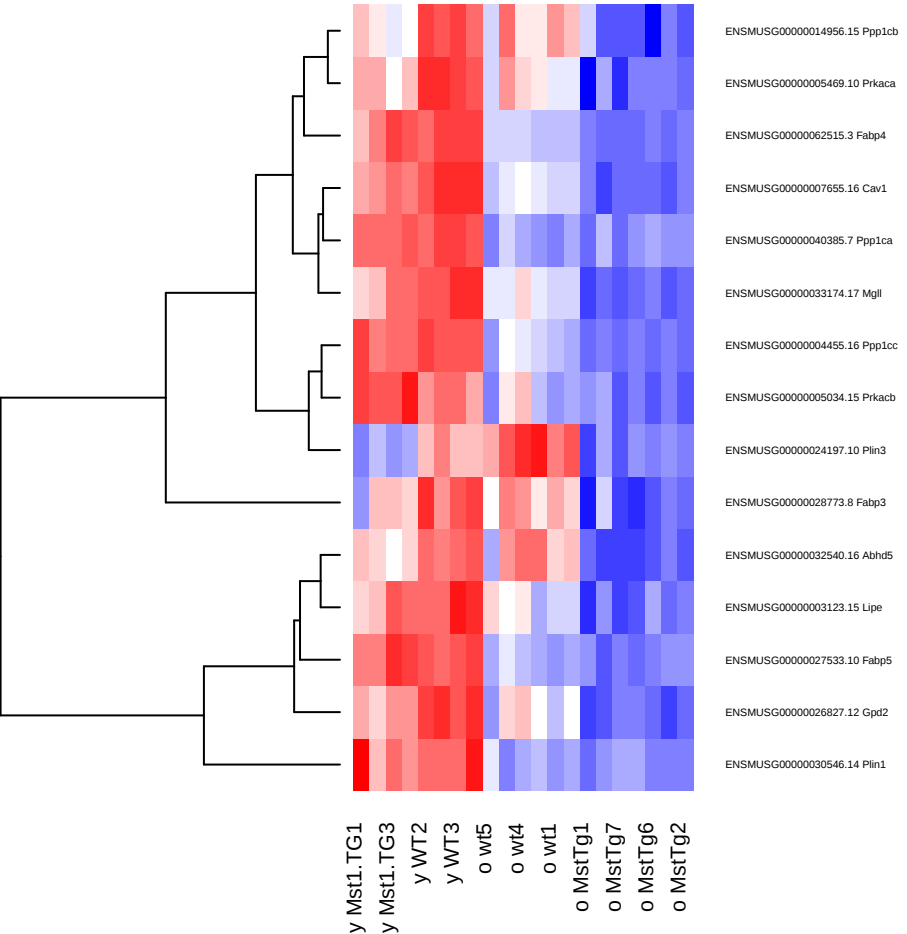
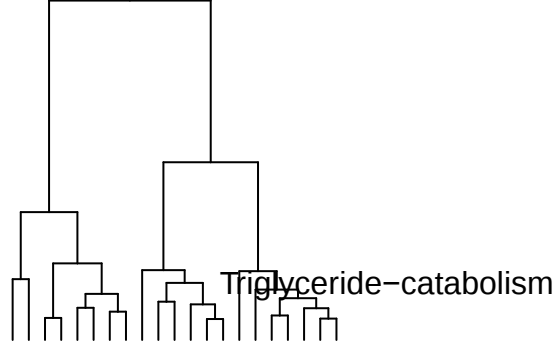
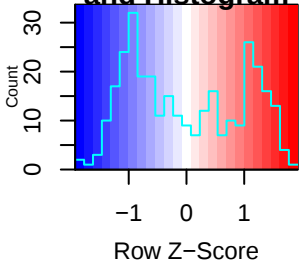


The role of GTSE1 in G2/M progression after G2-checkpoint



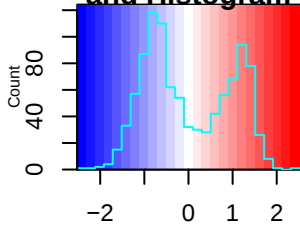
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ENSMUSG00000019942.13 Cdk1
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Color Key and Histogram



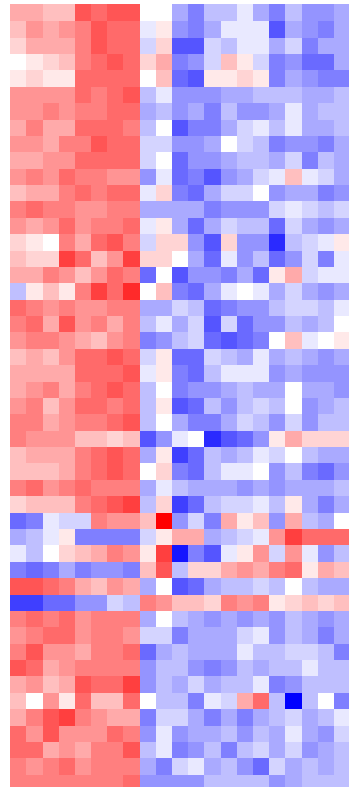
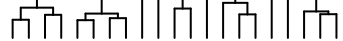
Color Key

and Histogram



Row Z-Score

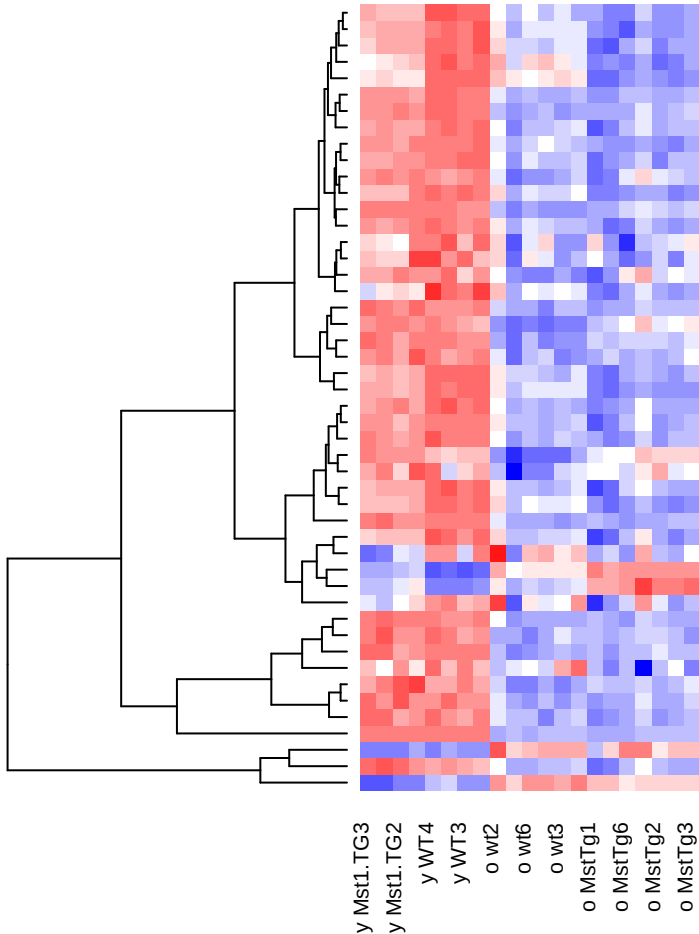
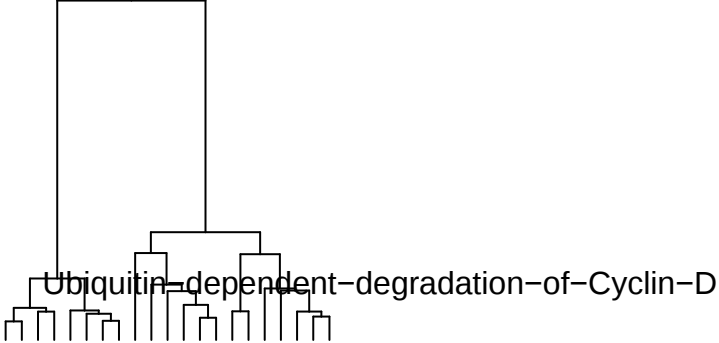
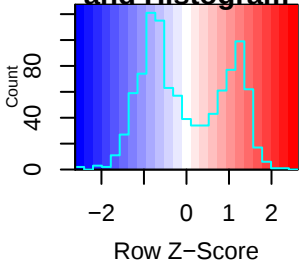
Ubiquitin-Mediated Degradation-of-Phosphorylated-Cdc25A



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ENSMUSG000000021832.8 Psmc6
ENSMUSG000000060073.9 Psma3
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y Mst1.TG3
y Mst1.TG2
y WT3
y WT1
o wif6
o MstTg1
o wif5
o wif3
o MstTg6
o MstTg2
o MstTg3

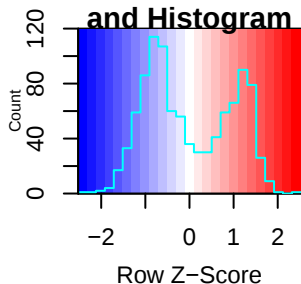
Color Key
and Histogram



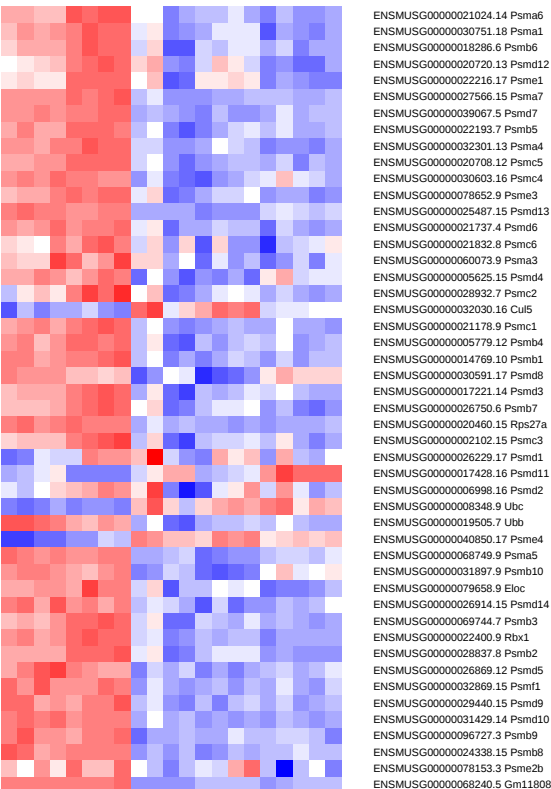
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Color Key

and Histogram

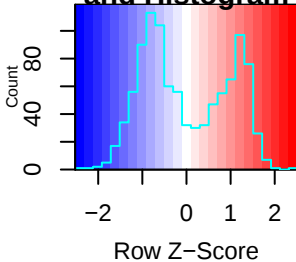


Vif-mediated degradation-of-APOBEC3G

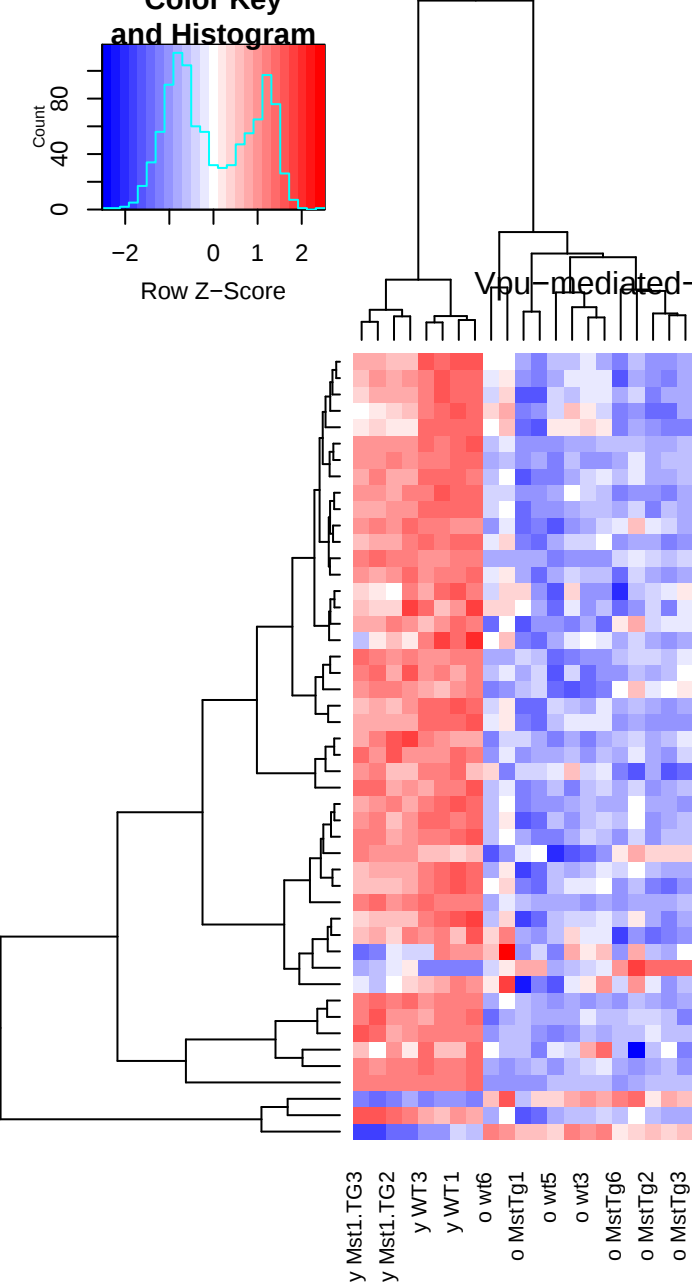


y Mst1.TG3
y Mst1.TG2
y WT3
y WT1
o wif6
o MstTg7
o wif5
o wif3
o MstTg6
o MstTg2
o MstTg3

Color Key
and Histogram

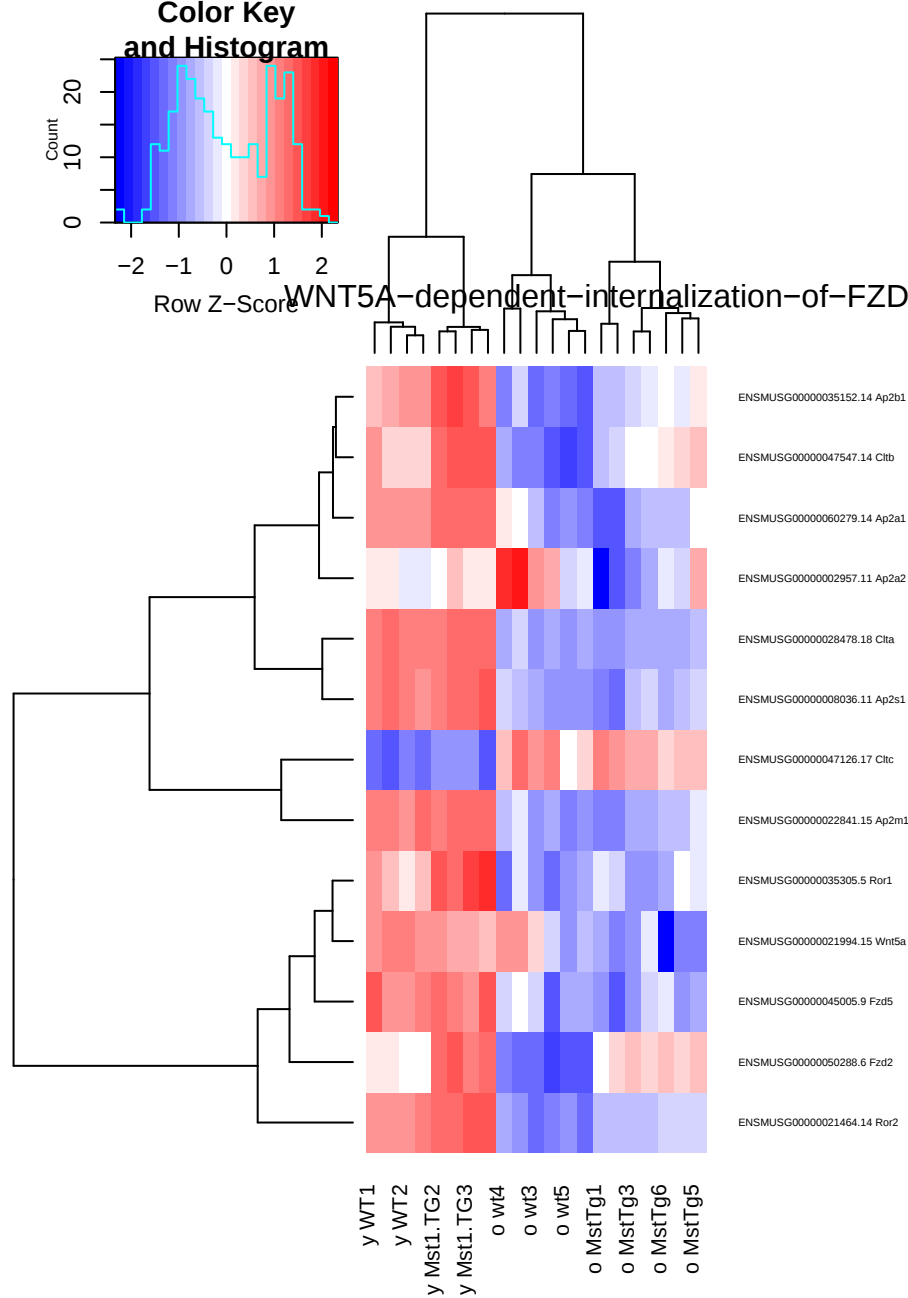


Vpu-mediated-degradation-of-CD4

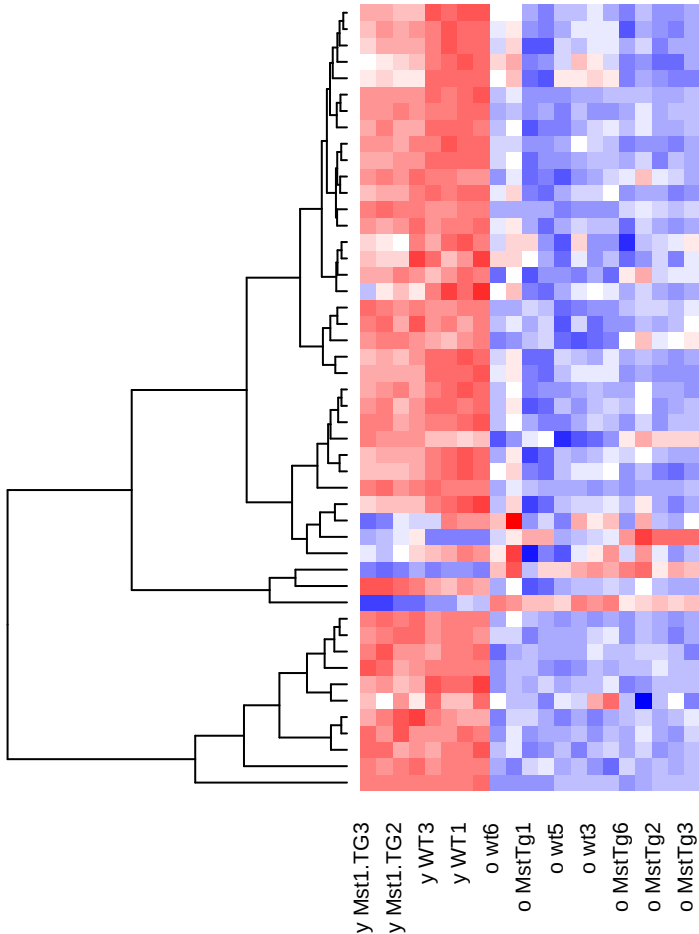
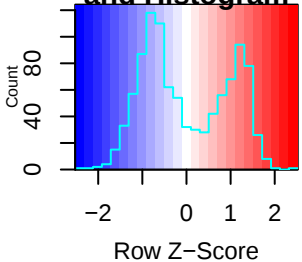


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ENSMUSG000000032301.13 PsmA4
ENSMUSG000000020708.12 PsmC5
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and Histogram



Color Key
and Histogram



- ENSMUSG000000021024.14 Psma6
- ENSMUSG000000030751.18 Psma1
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- ENSMUSG000000026869.12 Psmd5
- ENSMUSG000000032869.15 Psmb1
- ENSMUSG000000029440.15 Psmd9
- ENSMUSG000000032113.16 Chek1
- ENSMUSG000000068240.5 Gm11808

Color Key
and Histogram

