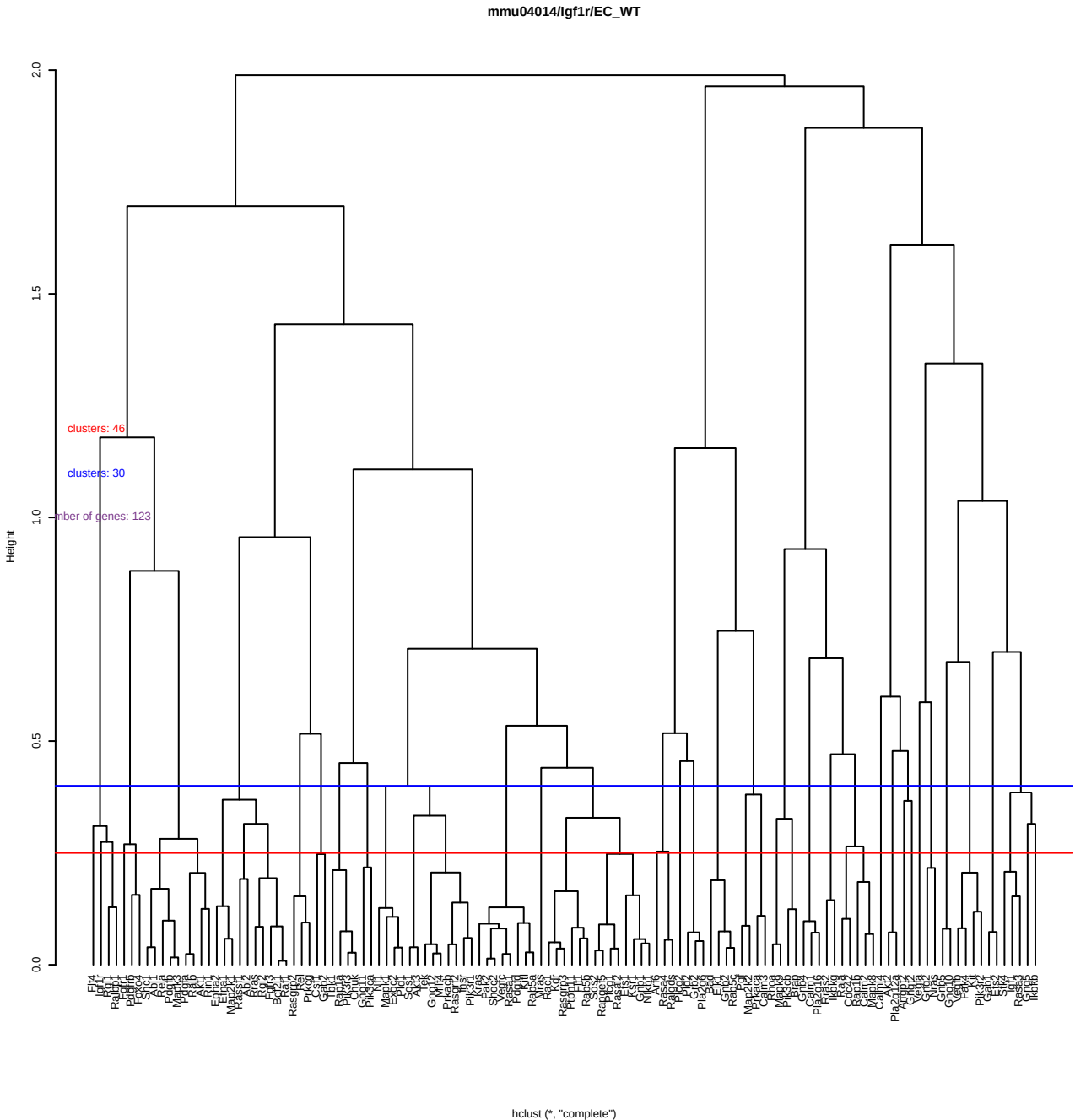
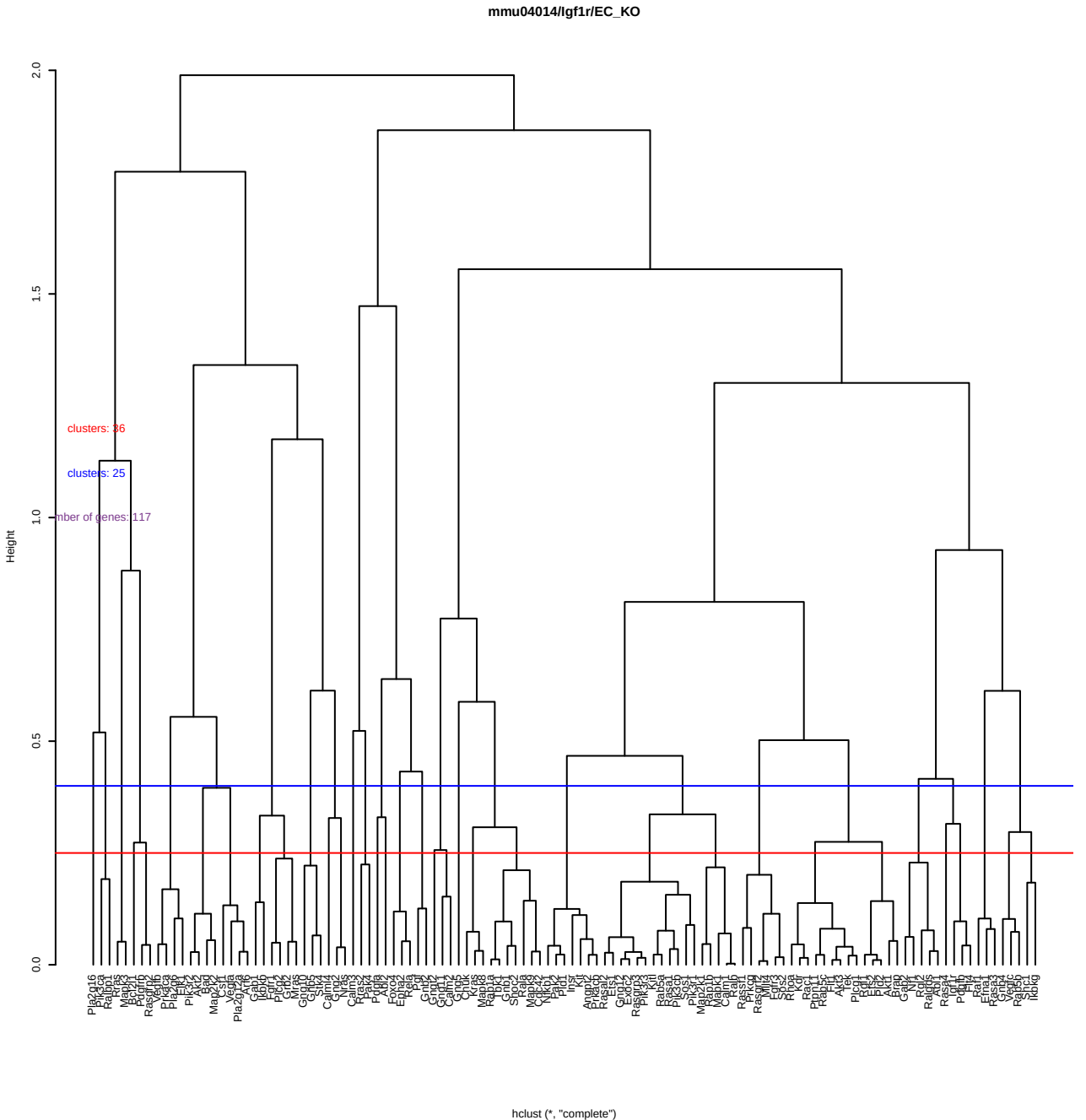

mmu04014/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 46
clusters: 30
nber of genes: 123
hclust (*, "complete")


mmu04014/Igf1r/EC_KO
Height
2.0
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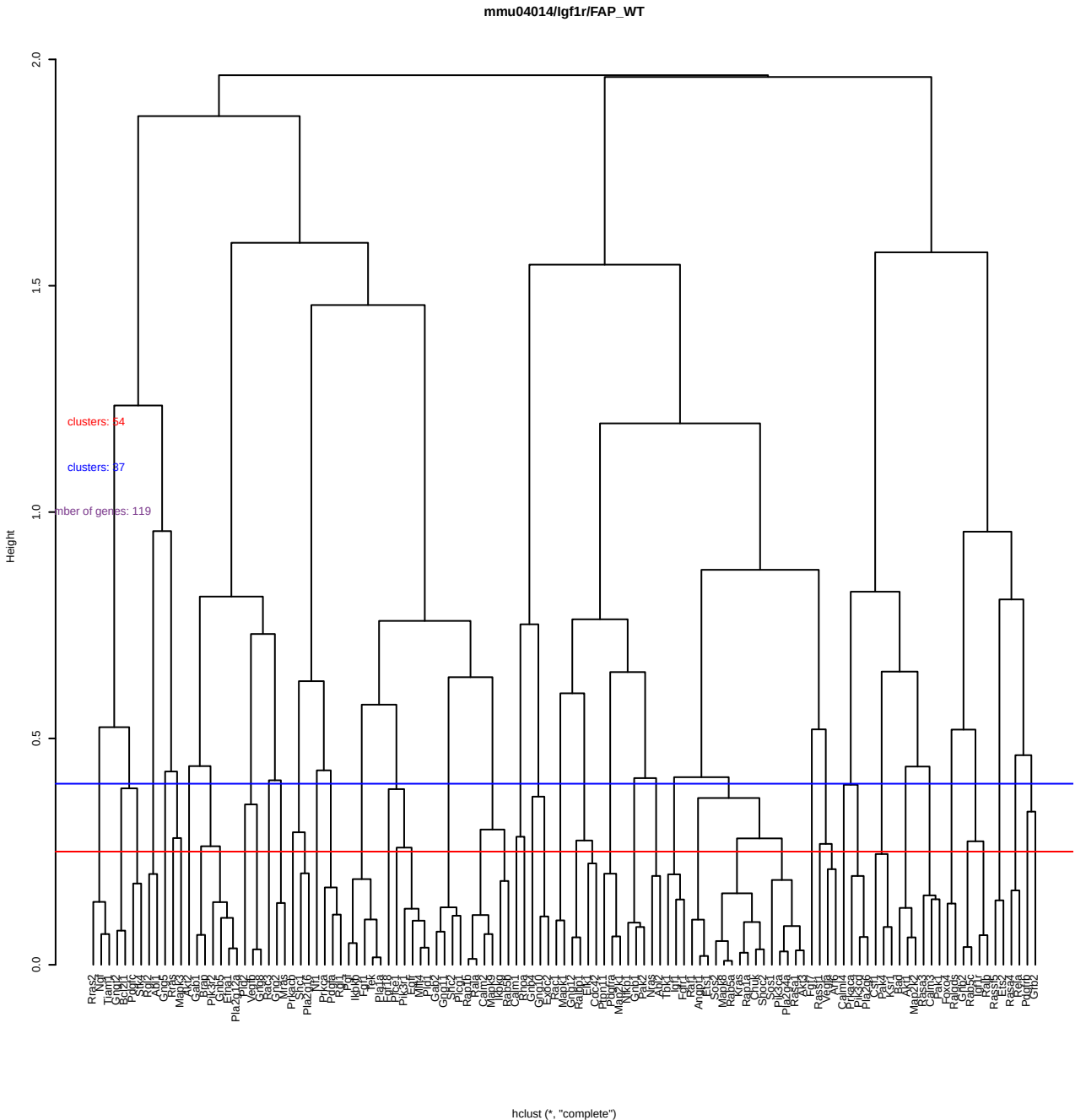
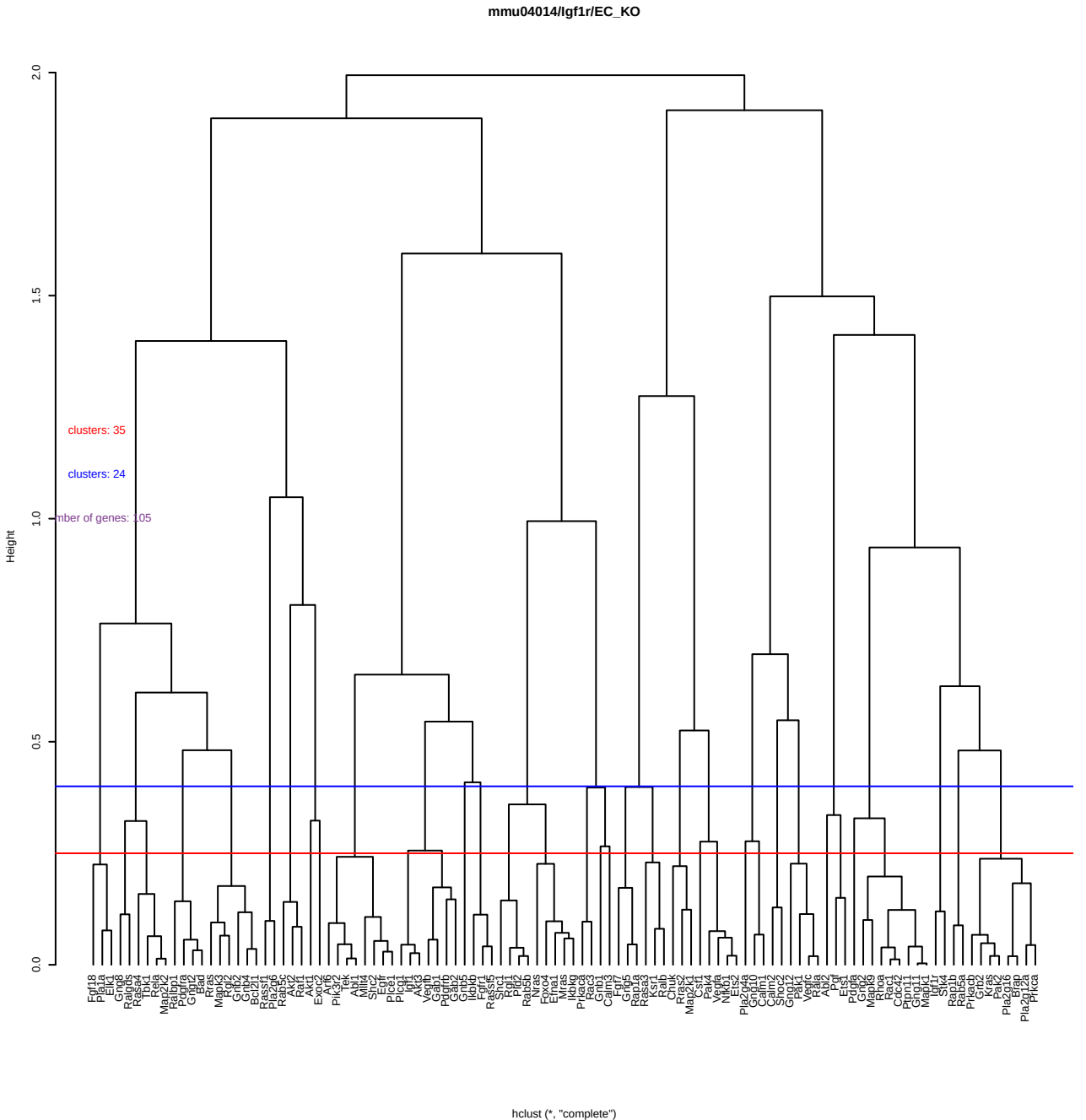
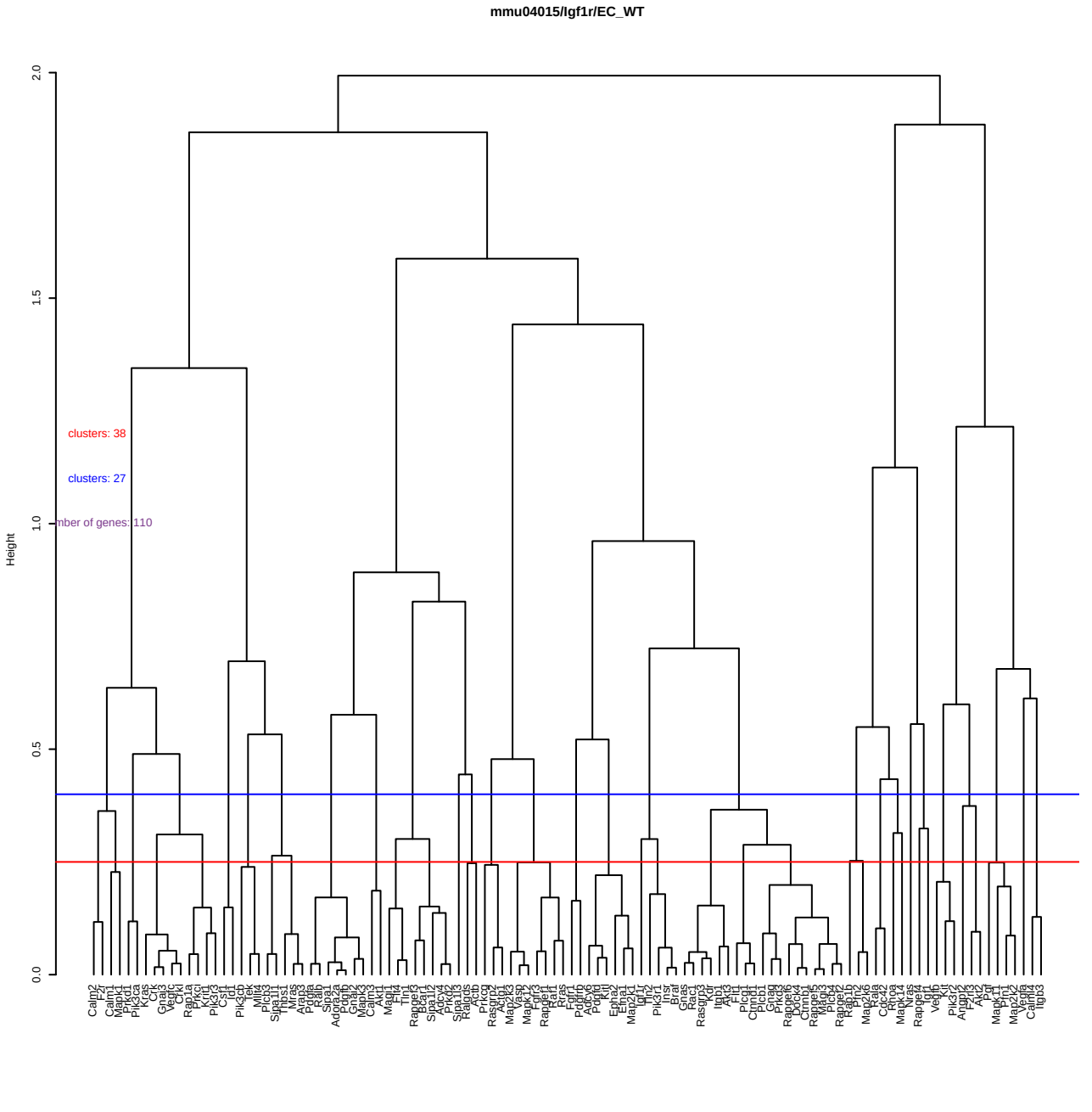
1.0
0.5
0.0
clusters: 36
clusters: 25
nber of genes: 117
hclust (*, "complete")

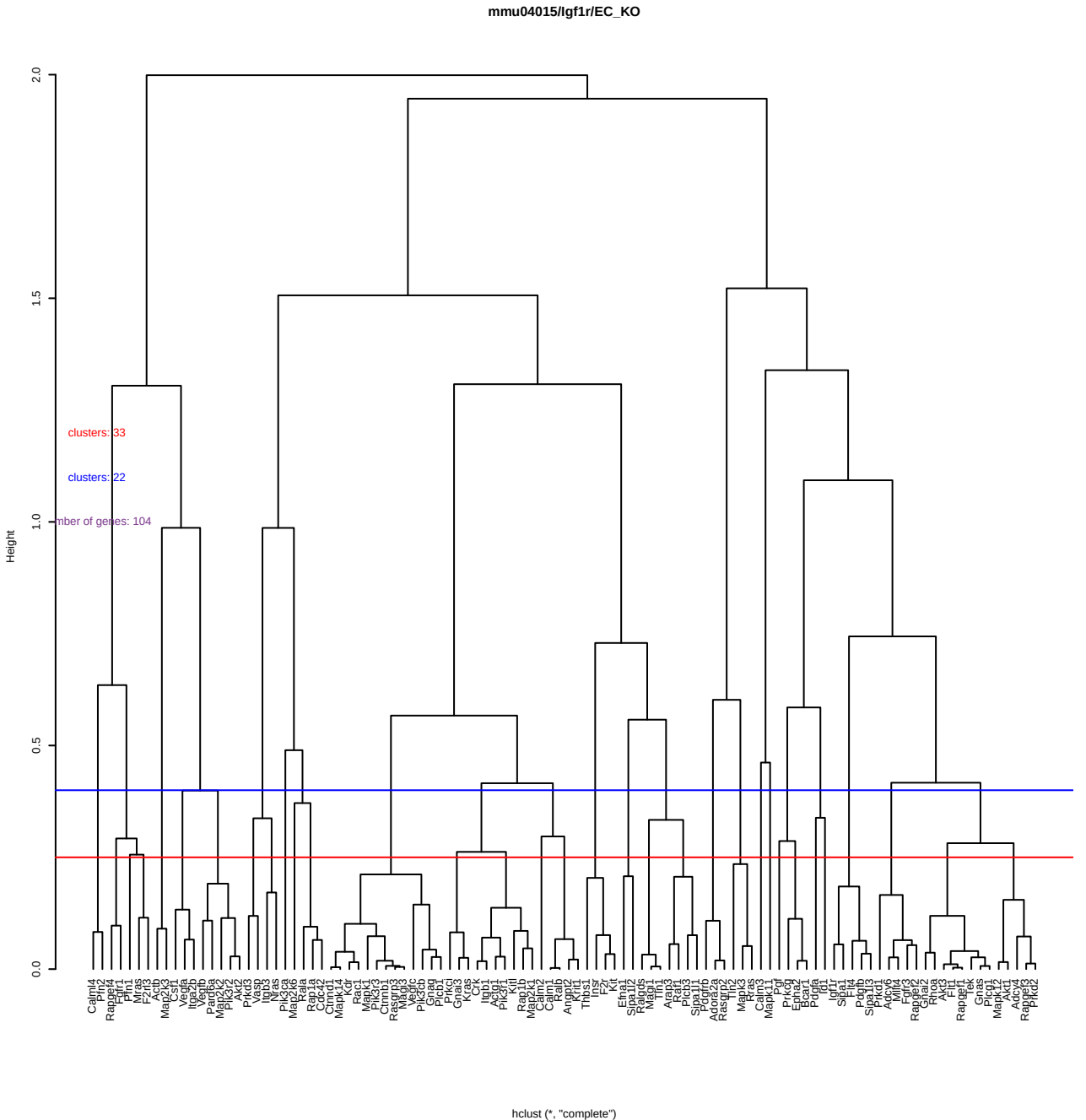

mmu04014/Igf1r/FAP_WT
clusters: 54
clusters: 37
nber of genes: 119
Height
2.0
1.5
1.0
0.5
0.0
hclust (*, "complete")

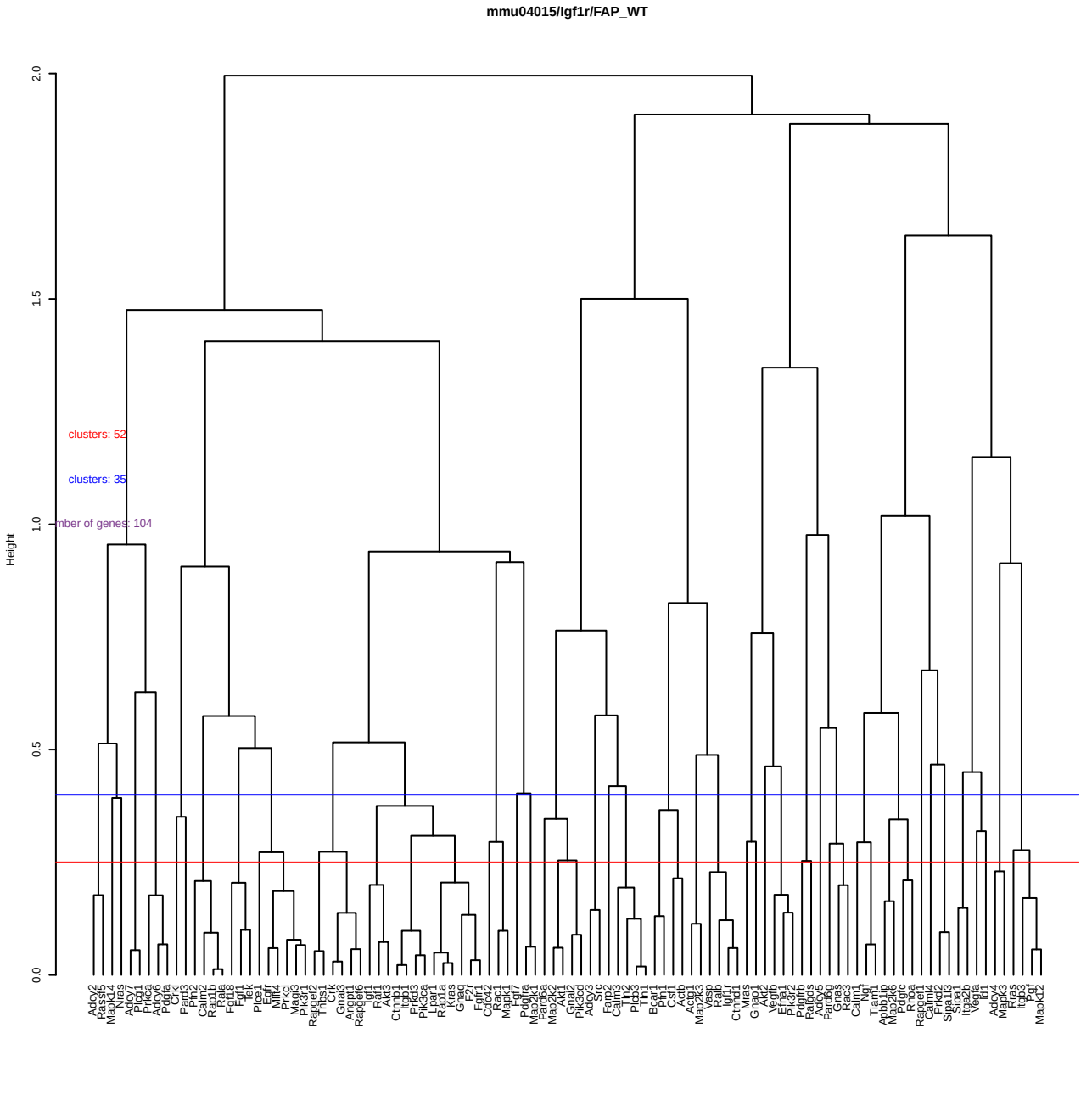


hclust (*, "complete")

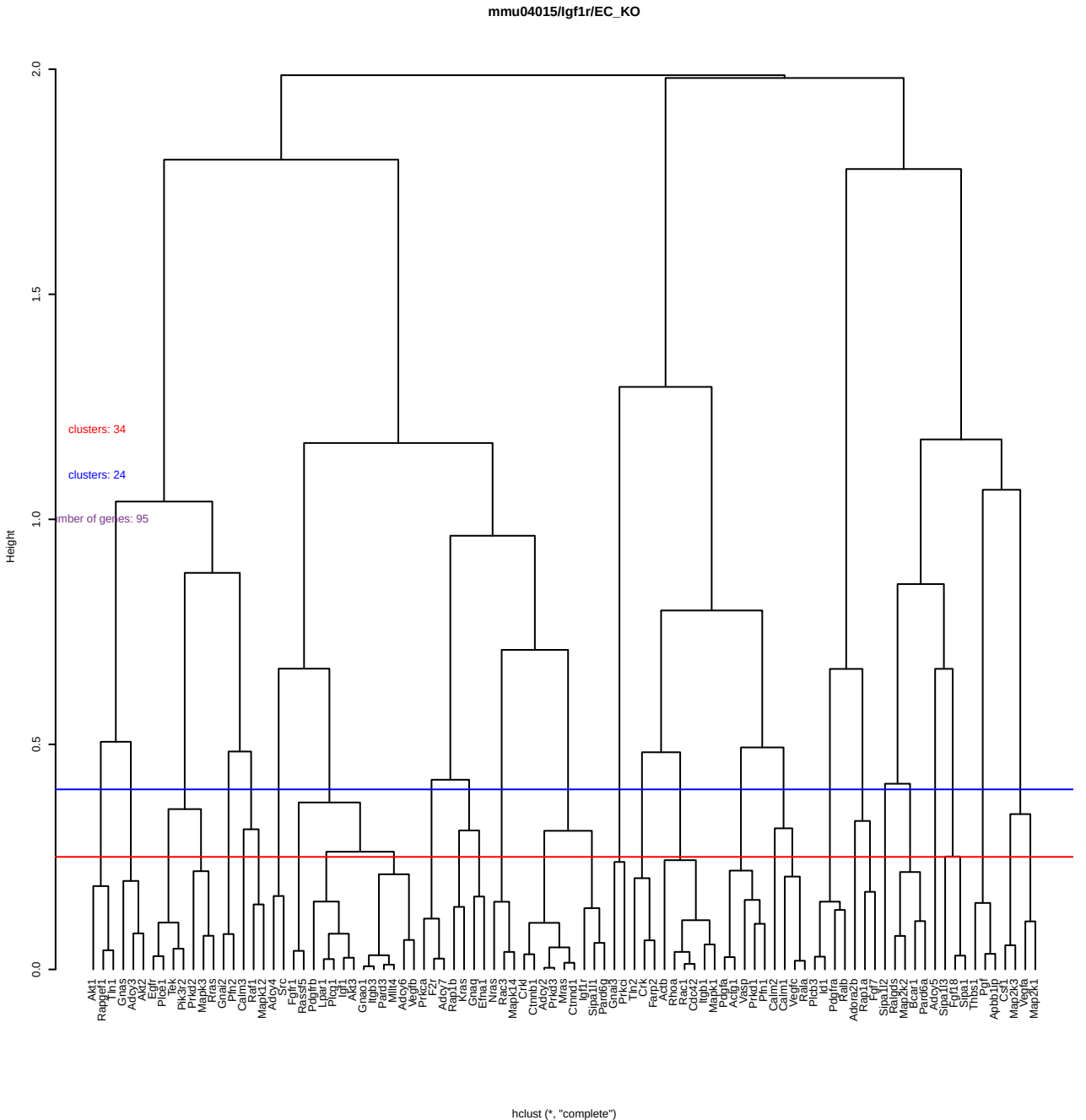


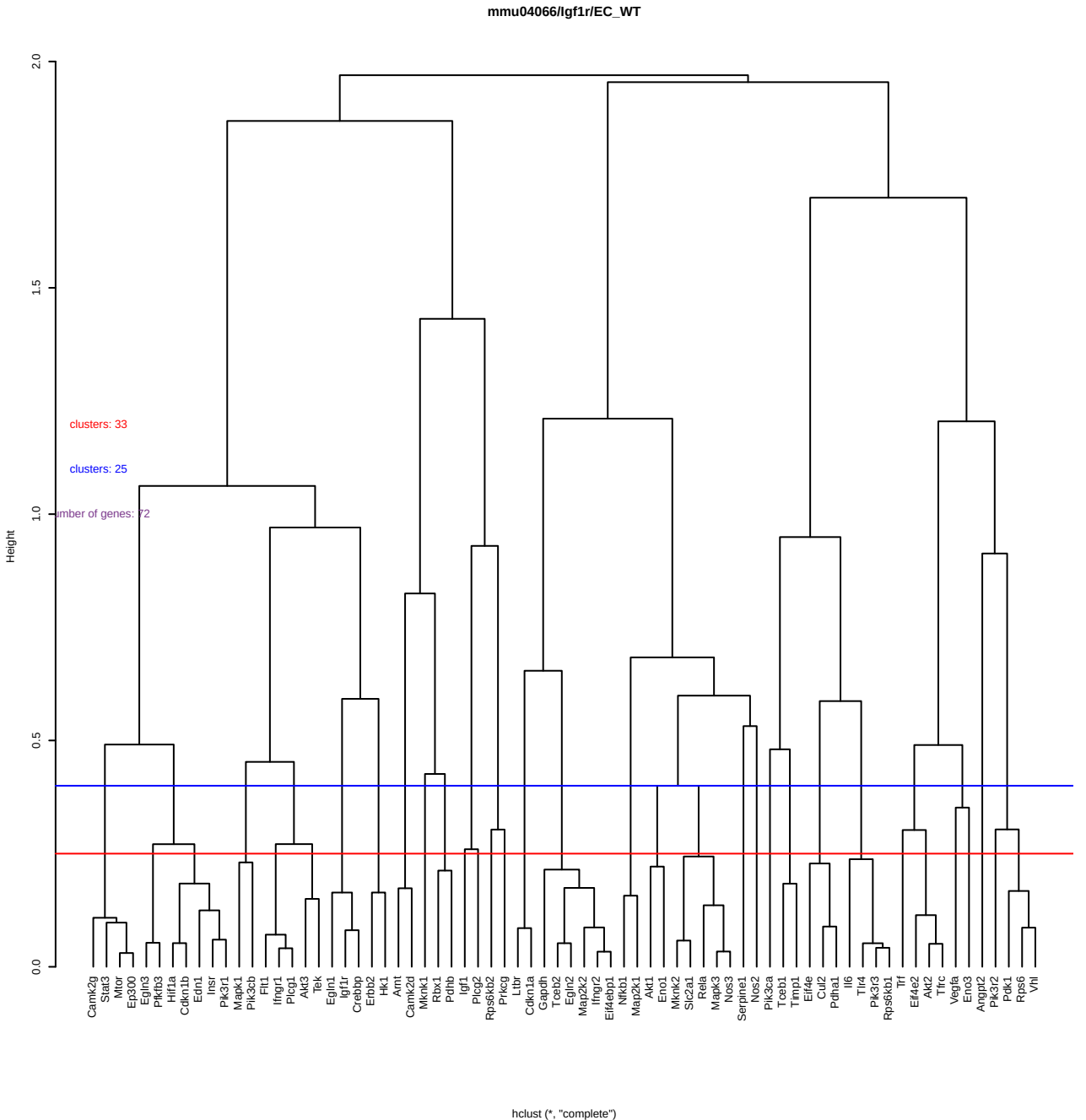
hclust (*, "complete")

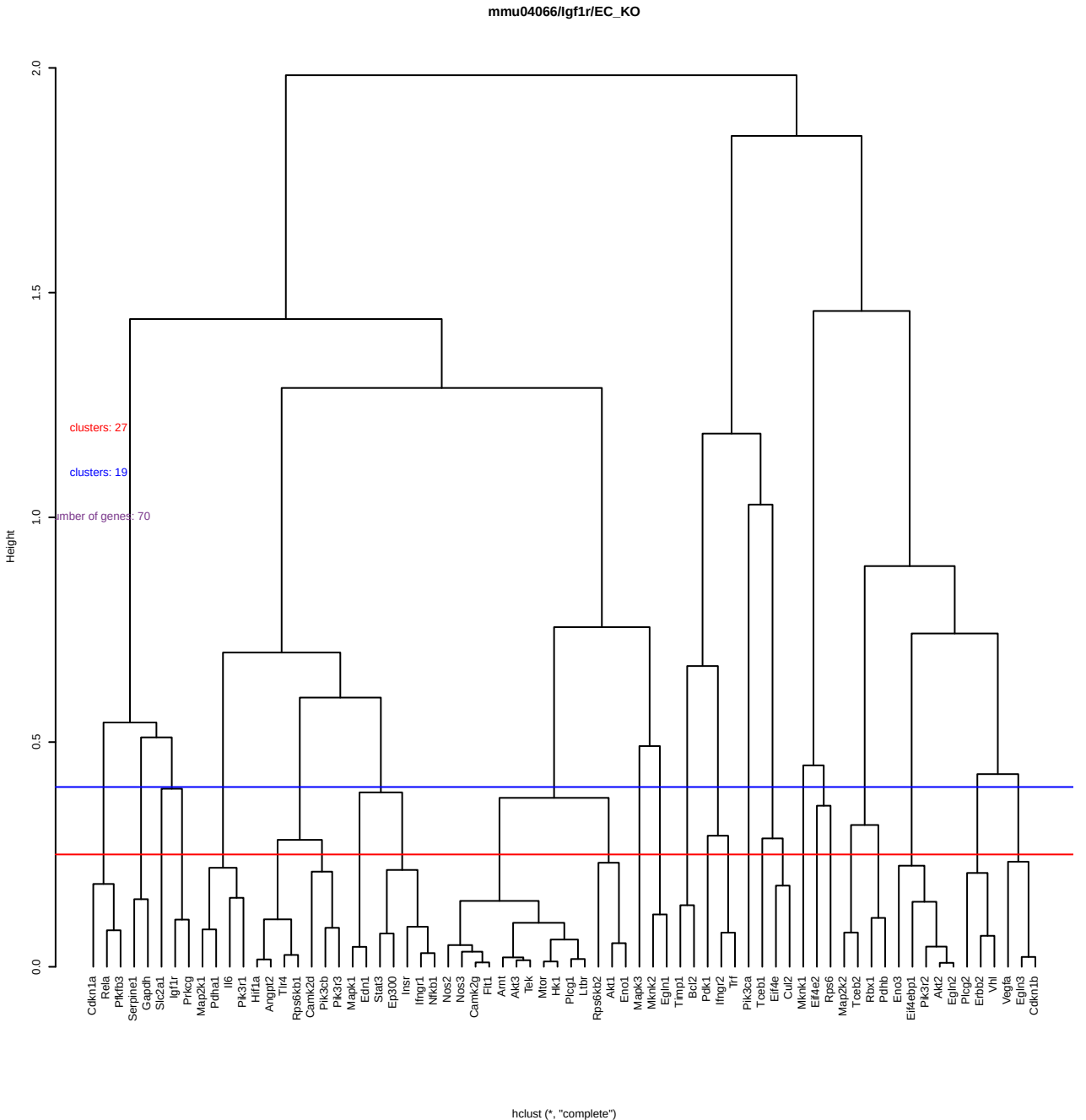

mmu04015/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 33
clusters: 22
nber of genes: 104
Calml4
Phn2
Rapgef4
Pfn1
Flnb
Mras
F2rl3
Acb
Map2k3
Cfl1
Vegfa
Itga2b
Vegfb
Pappa
Map2k2
Pik3r2
Akt2
Prkcd
Vasp
Itgb3
Nras
Pik3ca
Map2k6
Rala
Rap1a
Cdc42
Ctnnd1
Mapk14
Kdr
Rac1
Mapk1
Pik3r3
Ctnnb1
Rasgrp3
Magi3
Vegfc
Pik3cb
Gnaq
Plcb1
Prkcg
Gnas
Kras
Crk
Itgb1
Angpt1
Pik3r1
Kitl
Rap1b
Map2k1
Calm2
Calm1
Ralb
Angpt2
Kdr1
Thbs1
Insr
F2r
Akt1
Efna1
Sipa1l2
Ralgds
Map1b
Itpr1
Arap3
Raf1
Plcb3
Sipa1l1
Pdgfrb
Adora2a
Rasgrp2
Mapk12
Mapk3
Rras
Calm3
Mapk11
Prkcq
Epha2
Bcar1
Pdgfa
Igf1
Igf1r
Sipa1
Pdgfb
Sipa1l3
Prkd1
Adcy6
Mylk
Fgfr3
Rapgef2
Gna12
Rhoa
Akt3
Flt1
Rapgef1
Nek
Gnas
Plcg1
Mapk12
Akt1
Adcy4
Rapgef3
Prkd2
hclust (*, "complete")

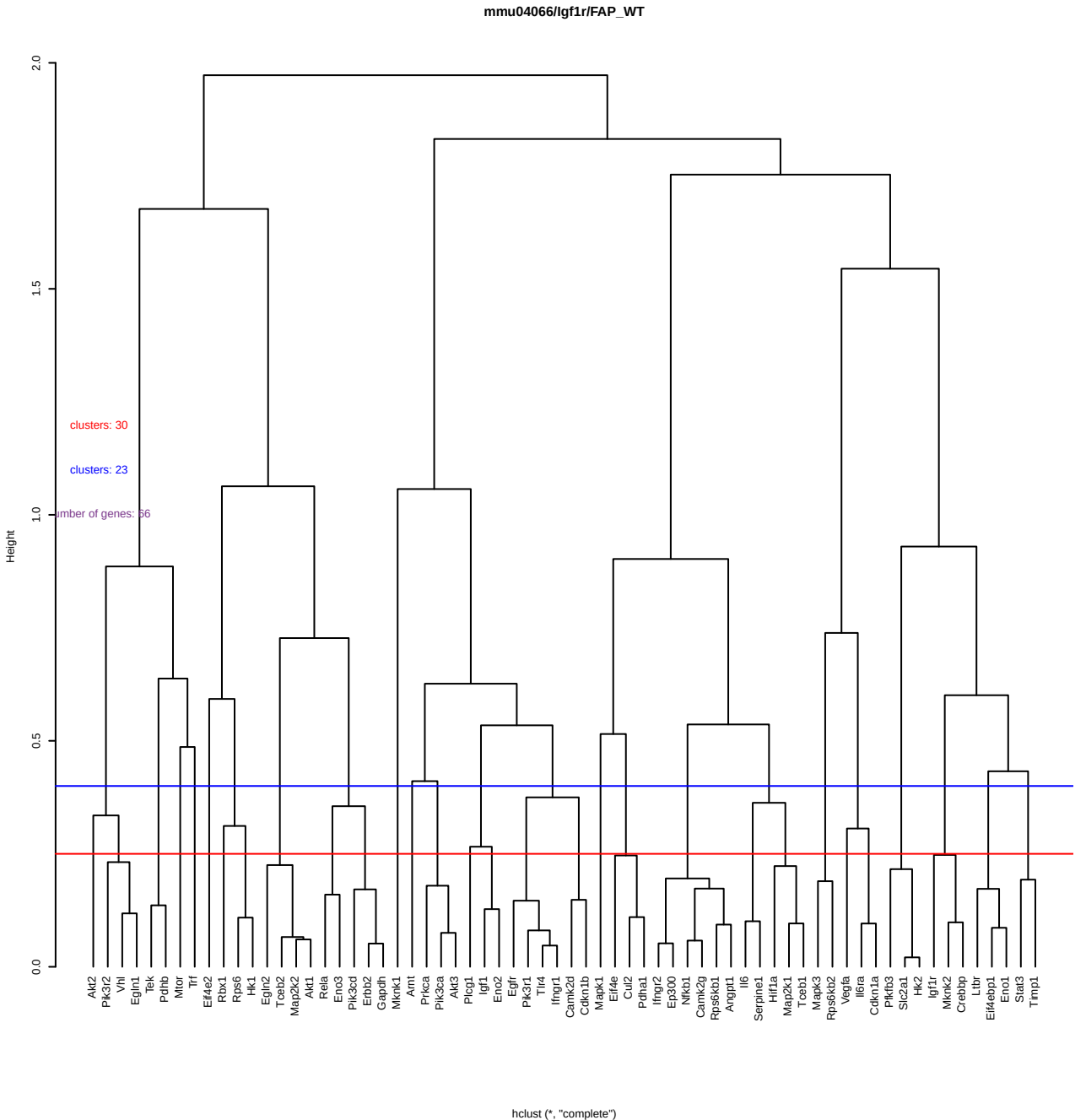


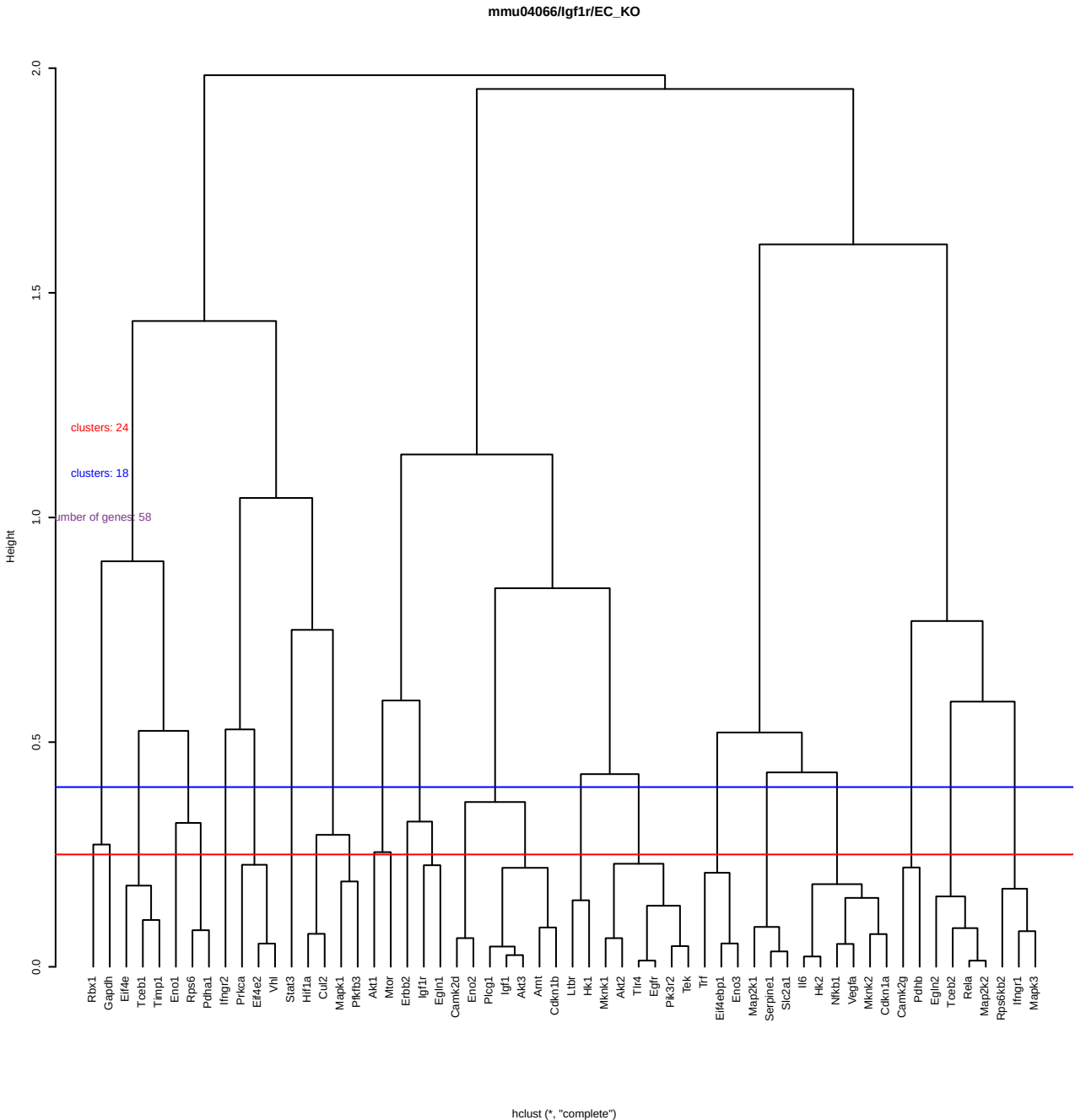
hclust (*, "complete")

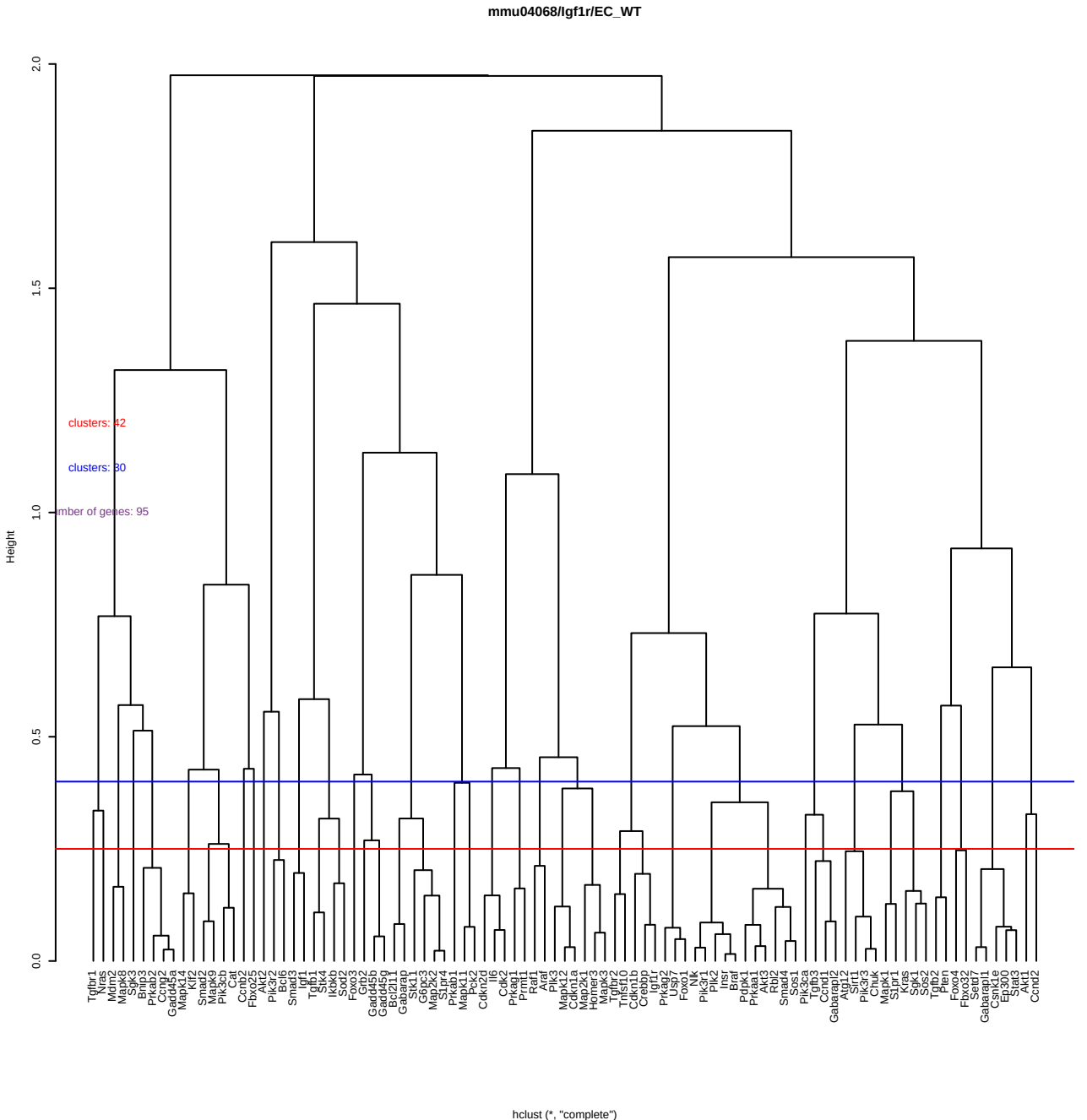

mmu04015/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 34
clusters: 24
mber of genes: 95
Akt1
Rapgef1
Tln1
Gnas
Adcy3
Akt2
Epor
Plcb1
Tek
Pik3r2
Prkd2
Mapk3
Kras
Gnai2
Pfn2
Calm3
Rat1
Mapk12
Adcy4
Fgfr1
Rassf5
Pdgfrb
Lpar1
Plcg1
Ap1
Akt3
Gnao1
Itgb3
Pard3
Mll4
Adcy6
Vegfb
Pik3ca
F2r
Adcy7
Rap1b
Kras
Gnaq
Ehbp1
Nras
Rac3
Mapk14
Crk
Ctnnb1
Adcy2
Pik3ca
Mras
Ctnnd1
Igf1r
Sipa1l1
Pardbg
Gnai3
Prkcd
Tln2
Crk
Farp2
Actb
Rhoa
Rac1
Cdc42
Itgb1
Mapk1
Pdgfa
Acig1
Yes1
Pik3r1
Pfn1
Calm2
Calm1
Vegfc
Ralia
Prkcd3
Id1
Pdgfra
Ralb
Adora2b
Rap1a
Fgf7
Sipa1l2
Ralgds
Map2k2
Bcar1
Pardba
Adcy5
Shc1a11
Fgf18
Slpa1
Thbs1
Pgf
Apbb1p
Crk
Map2k3
Vegfa
Map2k1
hclust (*, "complete")

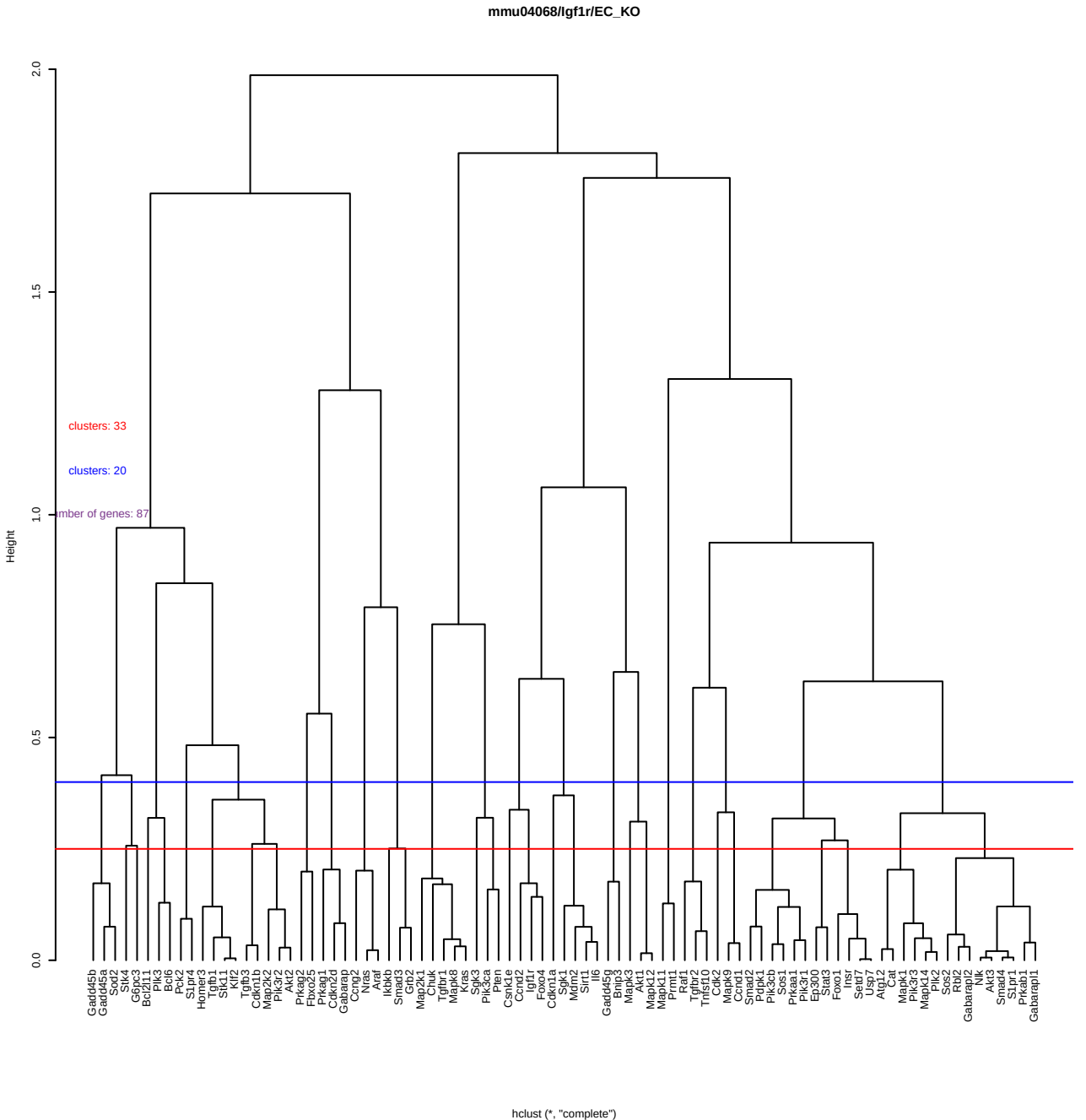

mmu04066/Igf1r/EC_WT
Height
0.0
0.5
1.0
1.5
2.0
clusters: 33
clusters: 25
mber of genes: 72
Camk2g
Stat3
Mtor
Ep300
Egln3
Pfkfb3
Hif1a
Cdkn1b
Edn1
Insr
Pik3r1
Mapk1
Pik3cb
Flt1
Ifngr1
Plcg1
Akt3
Tek
Egln1
Igf1r
Crebbp
Erbb2
Hk1
Amt
Camk2d
Mknk1
Rbx1
Pdhb
Igf1
Plcg2
Rps6kb2
Prkcg
Ltbr
Cdkn1a
Gapdh
Tceb2
Egln2
Map2k2
Ifngr2
Eif4ebp1
Nfkb1
Map2k1
Akt1
Eno1
Mknk2
Slc2a1
Rela
Mapk3
Nos3
Serpine1
Nos2
Pik3ca
Tceb1
Timp1
Eif4e
Cul2
Pdha1
Il6
Tlr4
Pik3r3
Rps6kb1
Trf
Eif4e2
Akt2
Tfrc
Vegfa
Eno3
Angpt2
Pik3r2
Pdk1
Rps6
Vhl
hclust (*, "complete")

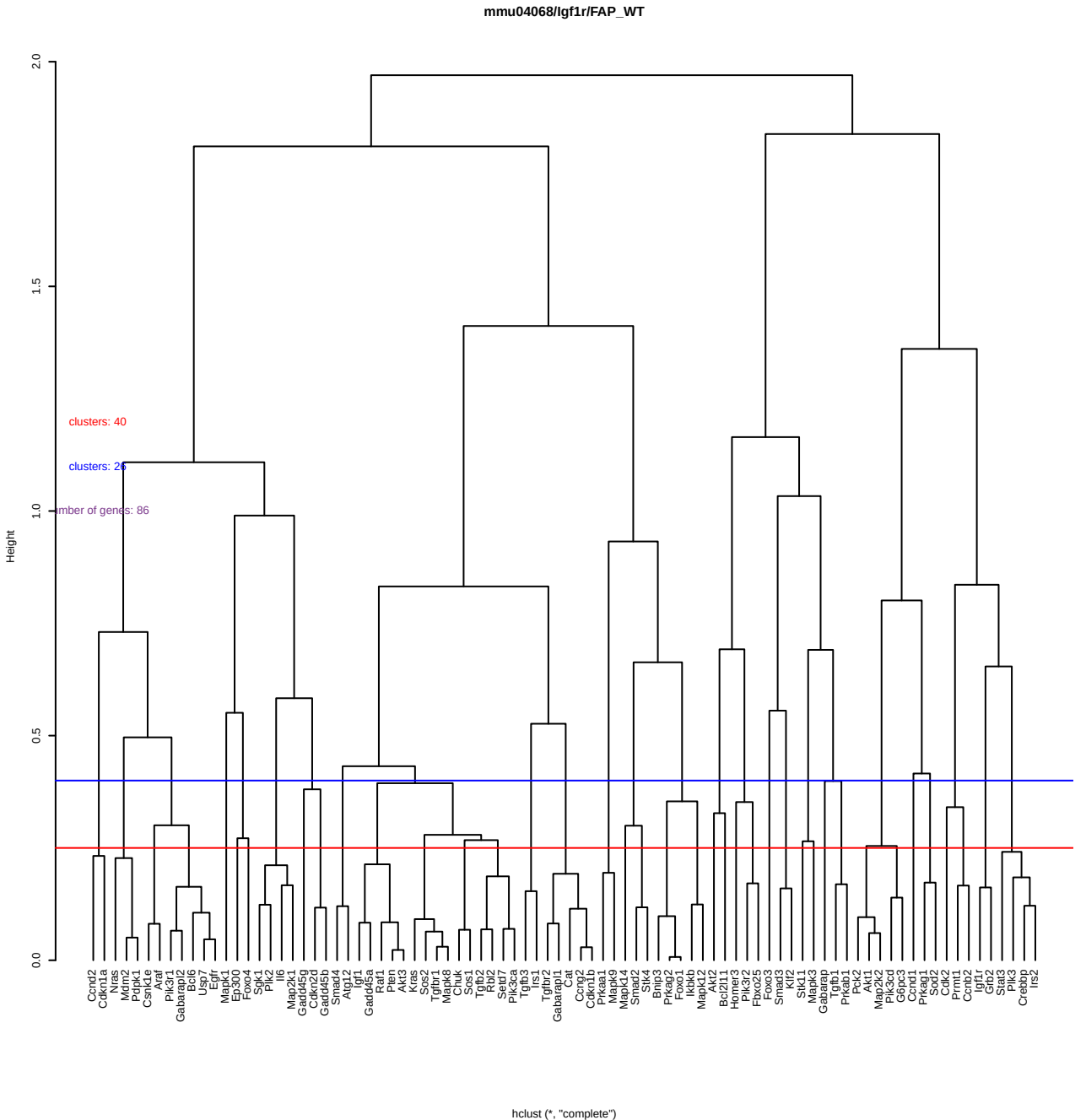

mmu04066/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 27
clusters: 19
umber of genes: 70
Cdkn1a
Rela
Pkfb3
Serpine1
Gapdh
Slc2a1
Igf1r
Prkcg
Map2k1
Pdha1
Il6
Pik3r1
Hif1a
Angpt2
Tlr4
Rps6kb1
Camk2d
Pik3cb
Pik3r3
Mapk1
Edn1
Stat3
Ep300
Insr
Ifngr1
Nfkb1
Nos2
Nos3
Camk2g
Flt1
Arnt
Akt3
Tek
Mtor
Hk1
Plcg1
Ltbr
Rps6kb2
Akt1
Eno1
Mapk3
Mknk2
Egln1
Timp1
Bcl2
Pdk1
Ifngr2
Trf
Pik3ca
Tceb1
Eif4e
Cul2
Mknk1
Eif4e2
Rps6
Map2k2
Tceb2
Rbx1
Pdhb
Eno3
Eif4ebp1
Pik3r2
Akt2
Egln2
Plcg2
Erbb2
Vhl
Vegfa
Egln3
Cdkn1b
hclust (*, "complete")

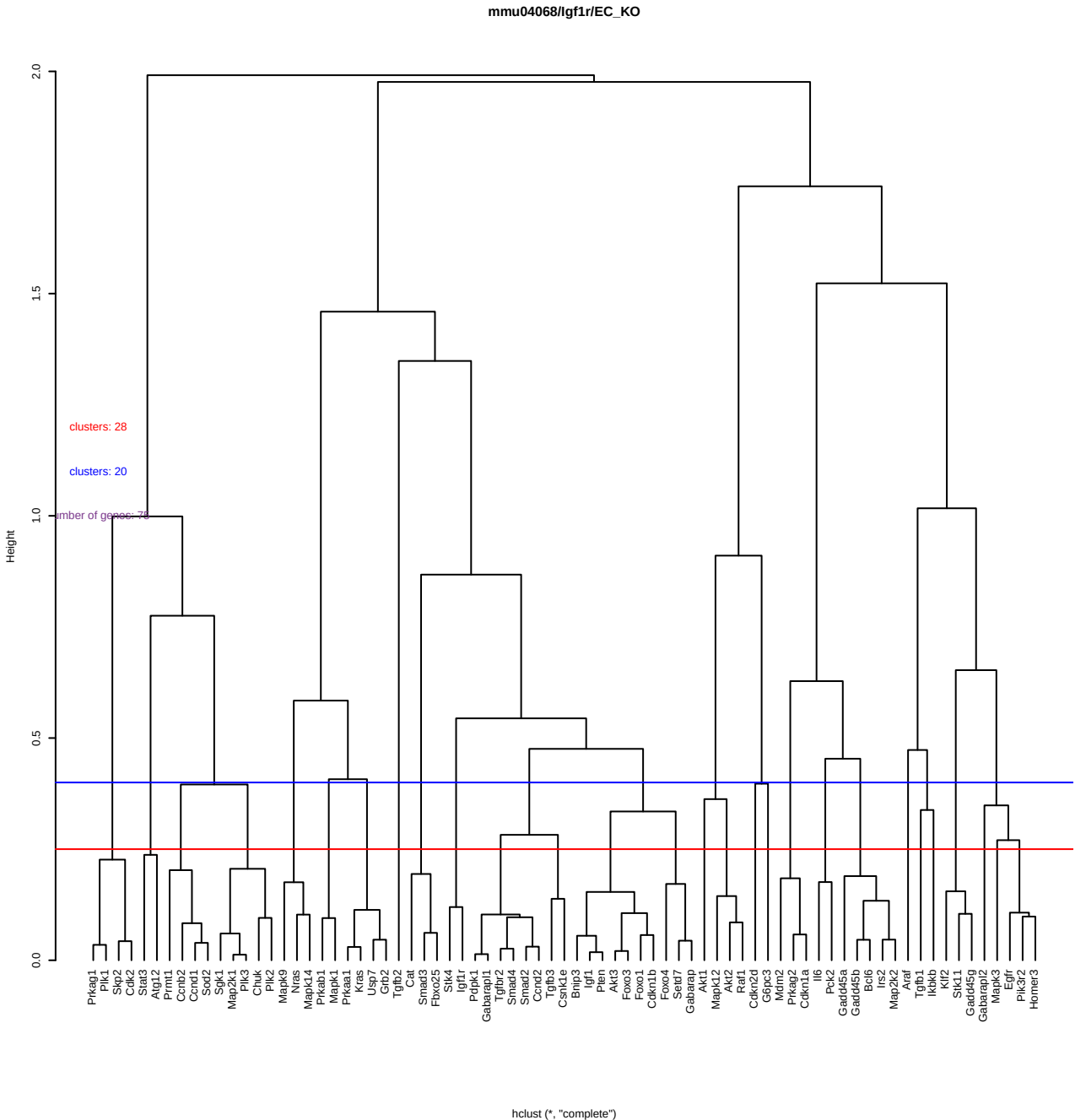

mmu04066/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 30
clusters: 23
umber of genes: 66
Akt2
Pik3r2
Vhl
Egln1
Tek
Pdhb
Mtor
Trf
Eif4e2
Rbx1
Rps6
Hk1
Egln2
Tceb2
Map2k2
Akt1
Rela
Eno3
Pik3cd
Erbb2
Gapdh
Mknk1
Amt
Prkca
Pik3ca
Akt3
Plcg1
Igf1
Eno2
Egfr
Pik3r1
Tlr4
Ifngr1
Camk2d
Cdkn1b
Mapk1
Eif4e
Cul2
Pdha1
Ifngr2
Ep300
Nfkb1
Camk2g
Rps6kb1
Angpt1
Il6
Serpine1
Hif1a
Map2k1
Tceb1
Mapk3
Rps6kb2
Vegfa
Il6ra
Cdkn1a
Pfkfb3
Slc2a1
Hk2
Igf1r
Mknk2
Crebbp
Ltbr
Eif4ebp1
Eno1
Stat3
Timp1
hclust (*, "complete")

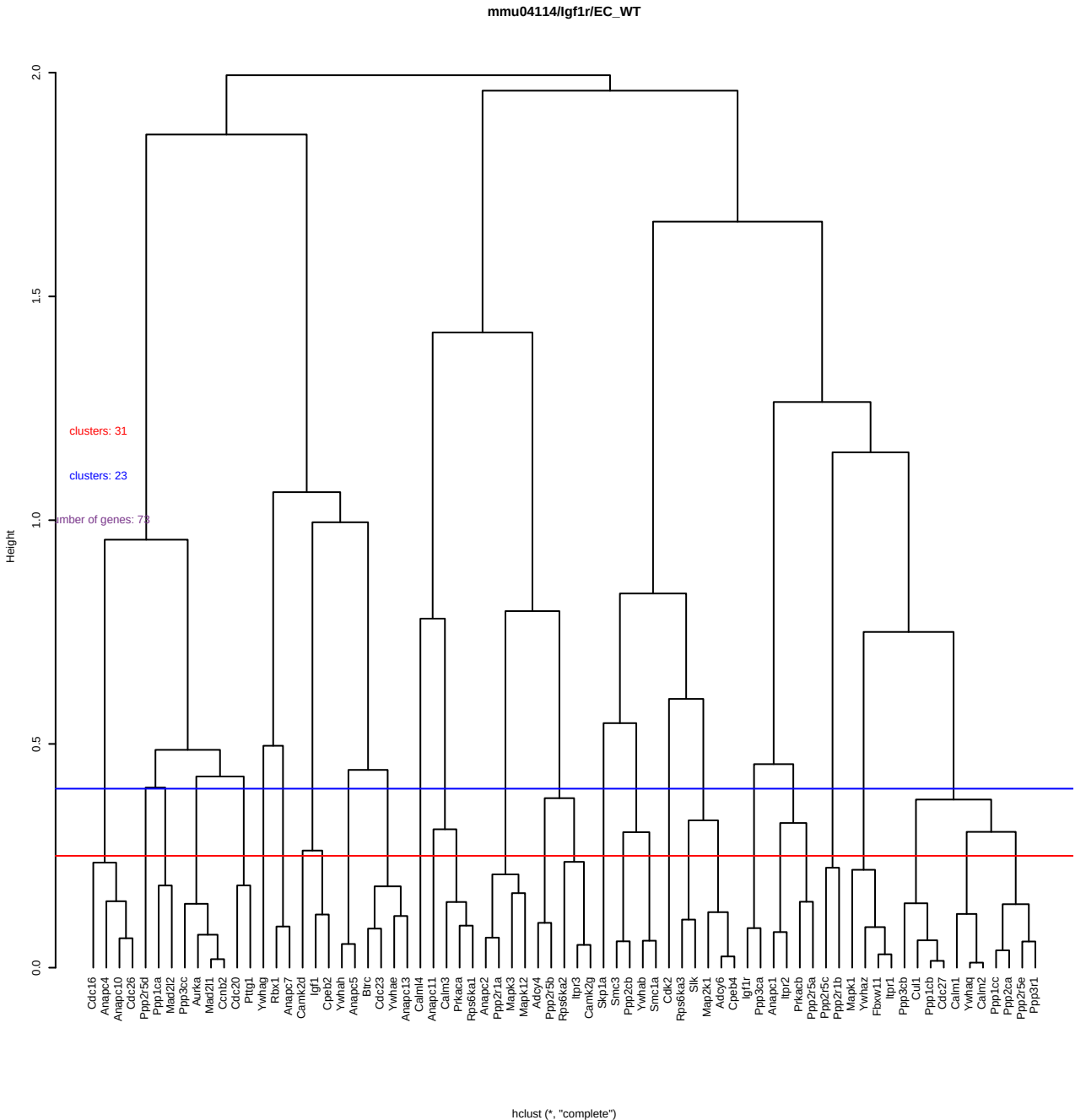

mmu04066/Igf1r/EC_KO
Height
0.0
0.5
1.0
1.5
2.0
clusters: 24
clusters: 18
umber of genes: 58
Rbx1
Gapdh
Eif4e
Tceb1
Timp1
Eno1
Rps6
Pdha1
Ifngr2
Prkca
Eif4e2
Vhl
Stat3
Hif1a
Cul2
Mapk1
Pfkfb3
Akt1
Mtor
Erbb2
Igf1r
Egln1
Camk2d
Eno2
Plcg1
Igf1
Akt3
Amt
Cdkn1b
Ltbr
Hk1
Mknk1
Akt2
Tlr4
Egfr
Pik3r2
Tek
Trf
Eif4ebp1
Eno3
Map2k1
Serpine1
Slc2a1
Il6
Hk2
Nfkb1
Vegfa
Mknk2
Cdkn1a
Camk2g
Pdhb
Egln2
Tceb2
Rela
Map2k2
Rps6kb2
Ifngr1
Mapk3
hclust (*, "complete")

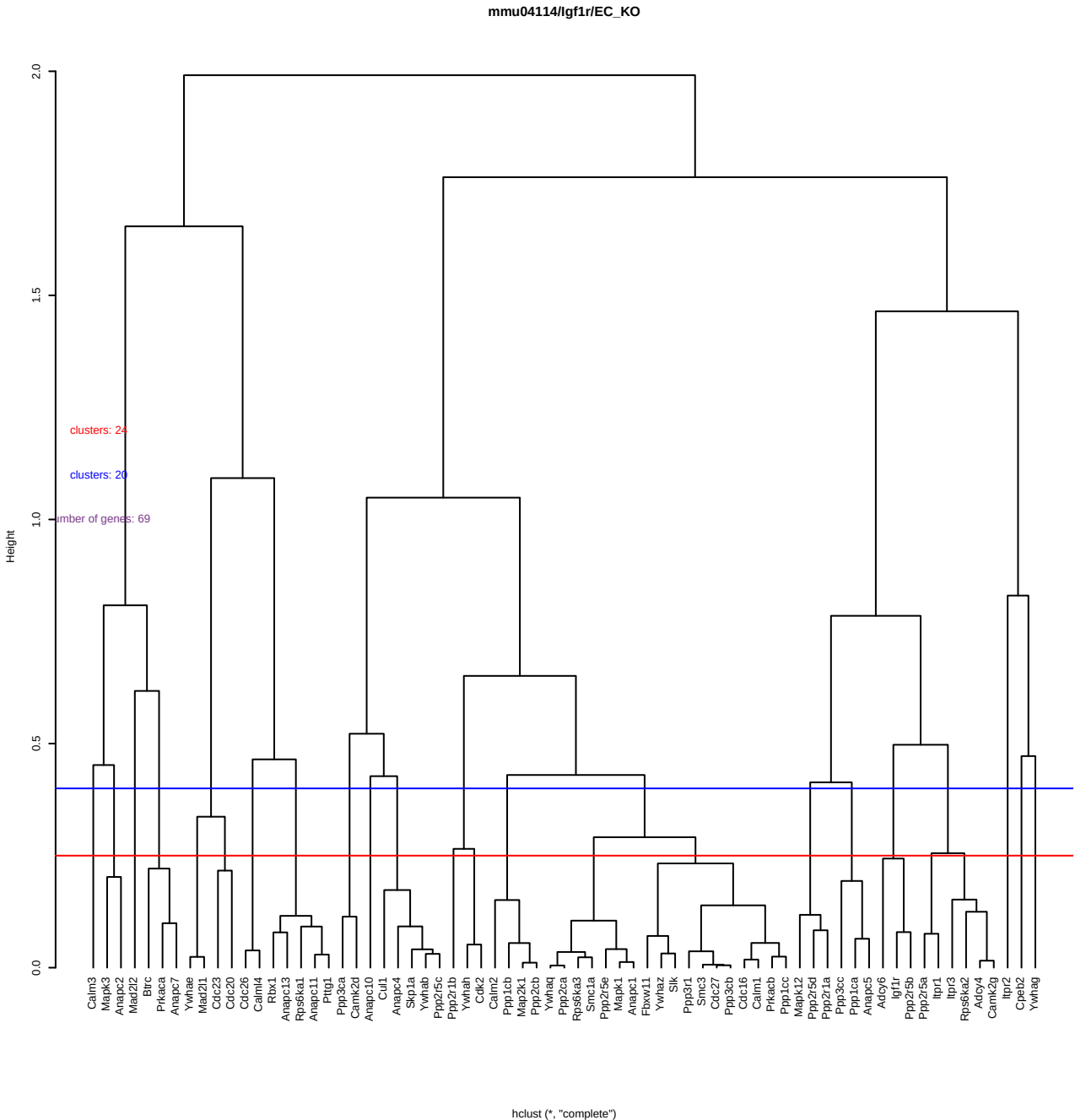

mmu04068/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 42
clusters: 30
mber of genes: 95
Tgfbr1
Kras
Mdm2
Mapk8
Sgk3
Bnip3
Prkag2
Ccng2
Gadd45a
Mapk14
Klf2
Smad2
Mapk9
Prkca
Cat
Ccnb2
Fbxo25
Akt2
Pik3r2
Fos
Smad3
Igf1
Tgfb1
Stk4
Ikbkb
Soo2
Foxo3
Grb2
Gadd45b
Gadd45g
Bcl2l11
Gabarap
Sirt1
Gsk3b
Map2k2
S1pr4
Prkab1
Mapk11
Pck2
Cdkn1d
Il6
Cdk2
Prkaq1
Prmt1
Rat1
Akt3
Pik3
Mapk12
Cdkn1a
Map2k1
Homer3
Mapk3
Tgfbr2
Igf1r
Cdkn1b
Crebbp
Igf1r
Prkaq2
Usp7
Foxo1
Nik
Pik3r1
Pik2
Insr
Braf
Pdpk1
Prkaa1
Akt3
Rbl2
Smad4
Sos1
Pik3ca
Tnfrsf1a
Ccnd1
Gabarapl2
Atg12
Sirt1
Pik3r3
Chuk
Mapk1
S1pr1
Kras
Sgk1
Sos2
Tgfb2
Tgfbr1
Foxo4
Fbxo32
Setd7
Gabarapl1
Csnk1e
Ep300
Smad3
Akt1
Ccnd2
hclust (*, "complete")

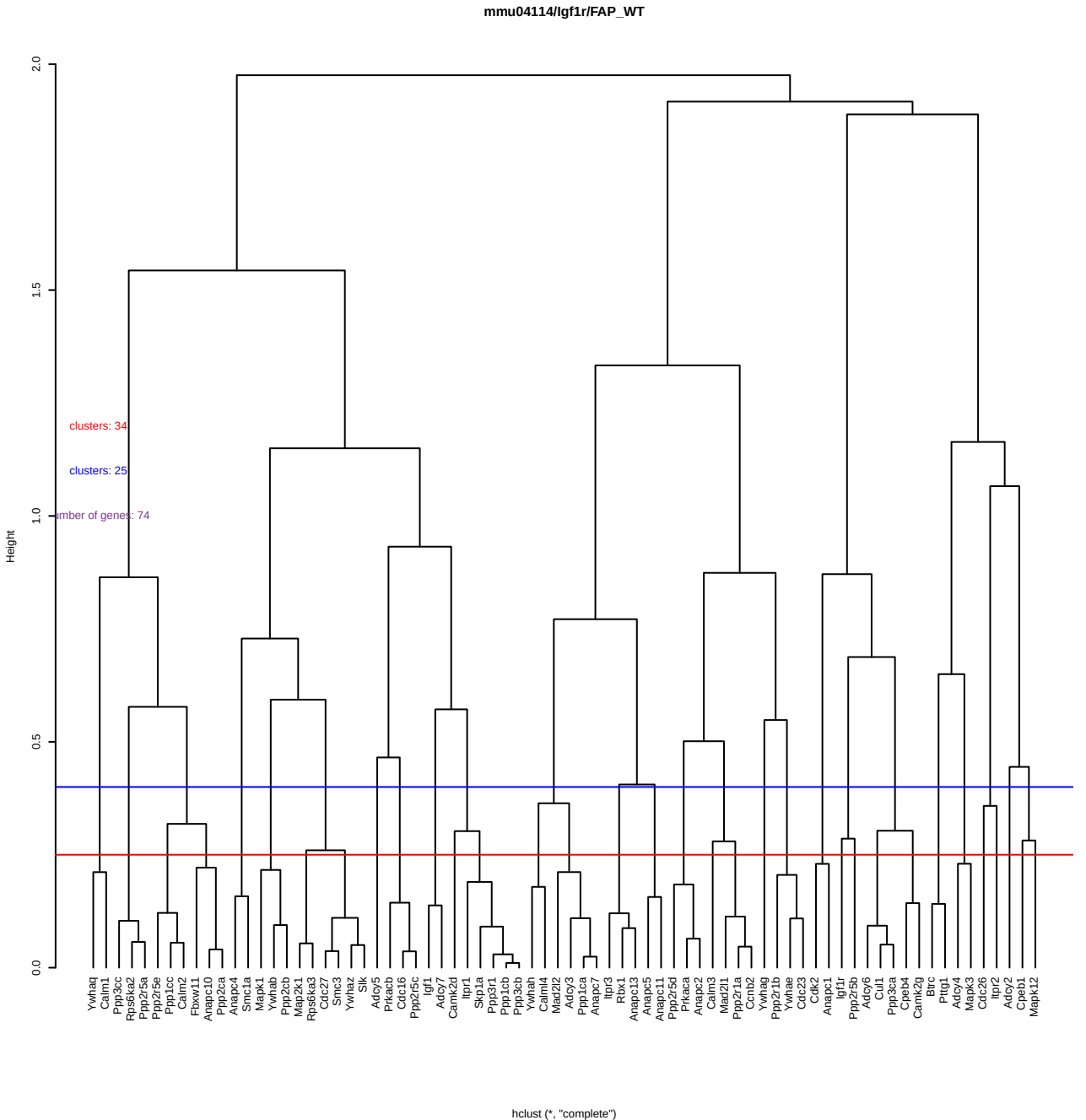

mmu04068/Igf1r/EC_KO
Height
0.0
0.5
1.0
1.5
2.0
clusters: 33
clusters: 20
mber of genes: 87
Gadd45b
Gadd45a
Sod2
Stk4
G6pc3
Bcl2l11
Plk3
Bcl6
Pck2
S1pr4
Homer3
Tgfb1
Stk11
Klf2
Tgfb3
Cdkn1b
Map2k2
Pik3r2
Akt2
Prkag2
Fbxo25
Prkag1
Cdkn2d
Gabarap
Ccng2
Nras
Atf3
Ikbkb
Smad3
Grb2
Map2k1
Chuk
Tgfbr1
Mapk8
Kras
Sgk3
Pik3ca
Pten
Csnk1e
Ccnd2
Igf1r
Foxo4
Cdkn1a
Sgk1
Mdm2
Sirt1
Il6
Gadd45g
Bnip3
Mapk3
Akt1
Mapk12
Mapk11
Tnfrsf1a
Rap1
Tgfbr2
Tnfsf10
Cdk2
Mapk9
Ccnd1
Smad2
Pdpk1
Pik3cb
Sos1
Prkaa1
Pik3r1
Ep300
Stat3
Foxo1
Insr
Setd7
Usp7
Atg12
Cat
Mapk1
Pik3r3
Mapk14
Plk2
Sos2
Rbl2
Gabarapl2
Vrk
Akt3
Smad4
S1pr1
Prkab1
Gabarapl1
hclust (*, "complete")

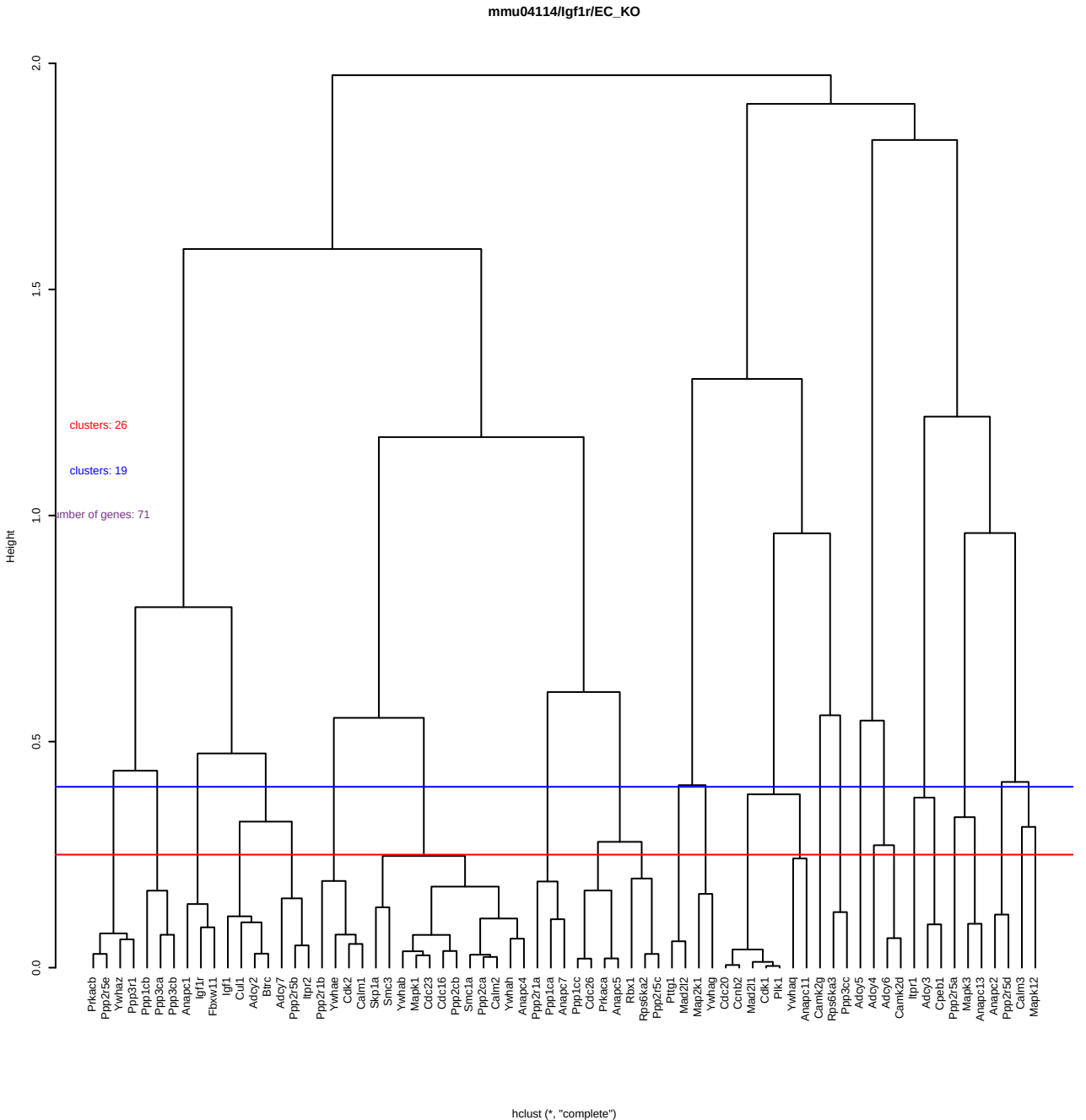

mmu04068/Igf1r/FAP_WT
Height
0.0
0.5
1.0
1.5
2.0
clusters: 40
clusters: 26
mber of genes: 86
Ccnd2
Cdkn1a
Nras
Mdm2
Pdpk1
Csnk1e
Araf
Pik3r1
Gabarapl2
Bcl6
Usp7
Egfr
Mapk1
Ep300
Foxo4
Stk2
Pik2
Il6
Map2k1
Gadd45g
Cdkn2d
Gadd45b
Smad4
Atg12
Igf1
Gadd45a
Raf1
Pten
Akt3
Kras
Sos2
Tgfbr1
Mapk8
Chuk
Sos1
Tgfb2
Rbl2
Setd7
Pik3ca
Tgfb3
Irs1
Tgfbr2
Gabarapl1
Cat
Ccng2
Cdkn1b
Prkaa1
Mapk9
Mapk14
Smad2
Stk4
Bnip3
Prkag2
Foxo1
Ikbkb
Mapk12
Akt2
Bcl2l11
Homer3
Pik3r2
Fbxo25
Foxo3
Smad3
Kif12
Stk11
Mapk3
Gabarap
Tgfb1
Prkab1
Pck2
Akt1
Map2k2
Pik3cd
G6pc3
Ccnd1
Prkag1
Sod2
Cdk2
Prmt1
Ccnb2
Igf1r
Grb2
Stat3
Plk3
Crebbp
Irs2
hclust (*, "complete")

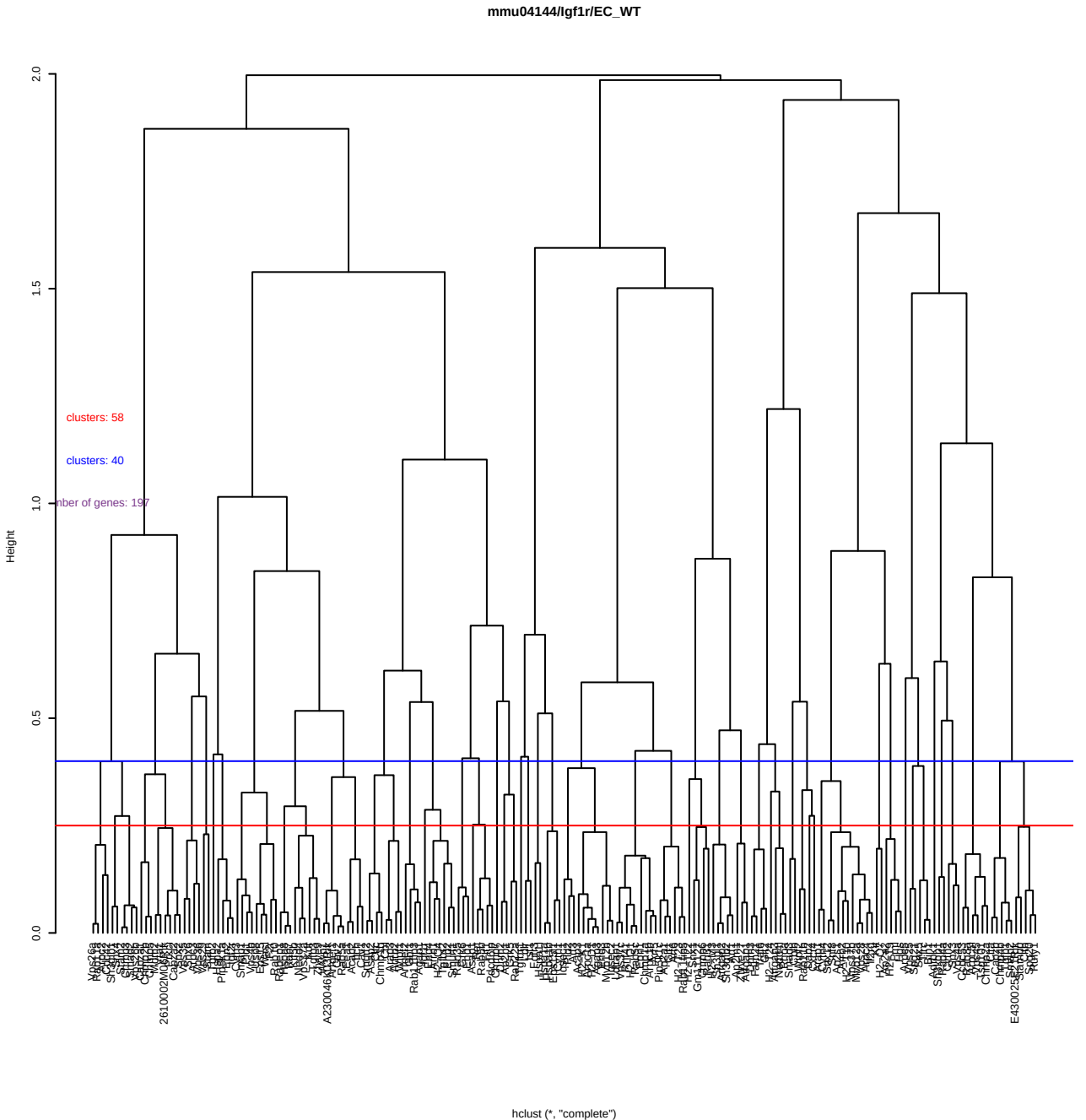

mmu04068/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 28
clusters: 20
mber of genes: 78
Prkaq1
Plk1
Skp2
Cdk2
Stat3
Atg12
Prmt1
Ccnb2
Ccnd1
Sod2
Sgk1
Map2k1
Plk3
Chuk
Plk2
Mapk9
Nras
Mapk14
Prkab1
Mapk1
Prkaa1
Kras
Usp7
Grb2
Tgfb2
Cat
Smad3
Fbxo25
Stk4
Igf1r
Pdpk1
Gabarapl1
Tgfbr2
Smad4
Smad2
Ccnd2
Tgfb3
Csnk1e
Bnip3
Igf1
Pten
Akt3
Foxo3
Foxo1
Cdkn1b
Foxo4
Setd7
Gabarap
Akt1
Mapk12
Akt2
Raf1
Cdkn2d
G6pc3
Mdm2
Prkag2
Cdkn1a
Il6
Pck2
Gadd45a
Gadd45b
Bcl6
Irs2
Map2k2
Araf
Tgfb1
Ikbkb
Klf2
Stk11
Gadd45g
Gabarapl2
Mapk3
Egfr
Plk3r2
Homer3
hclust (*, "complete")

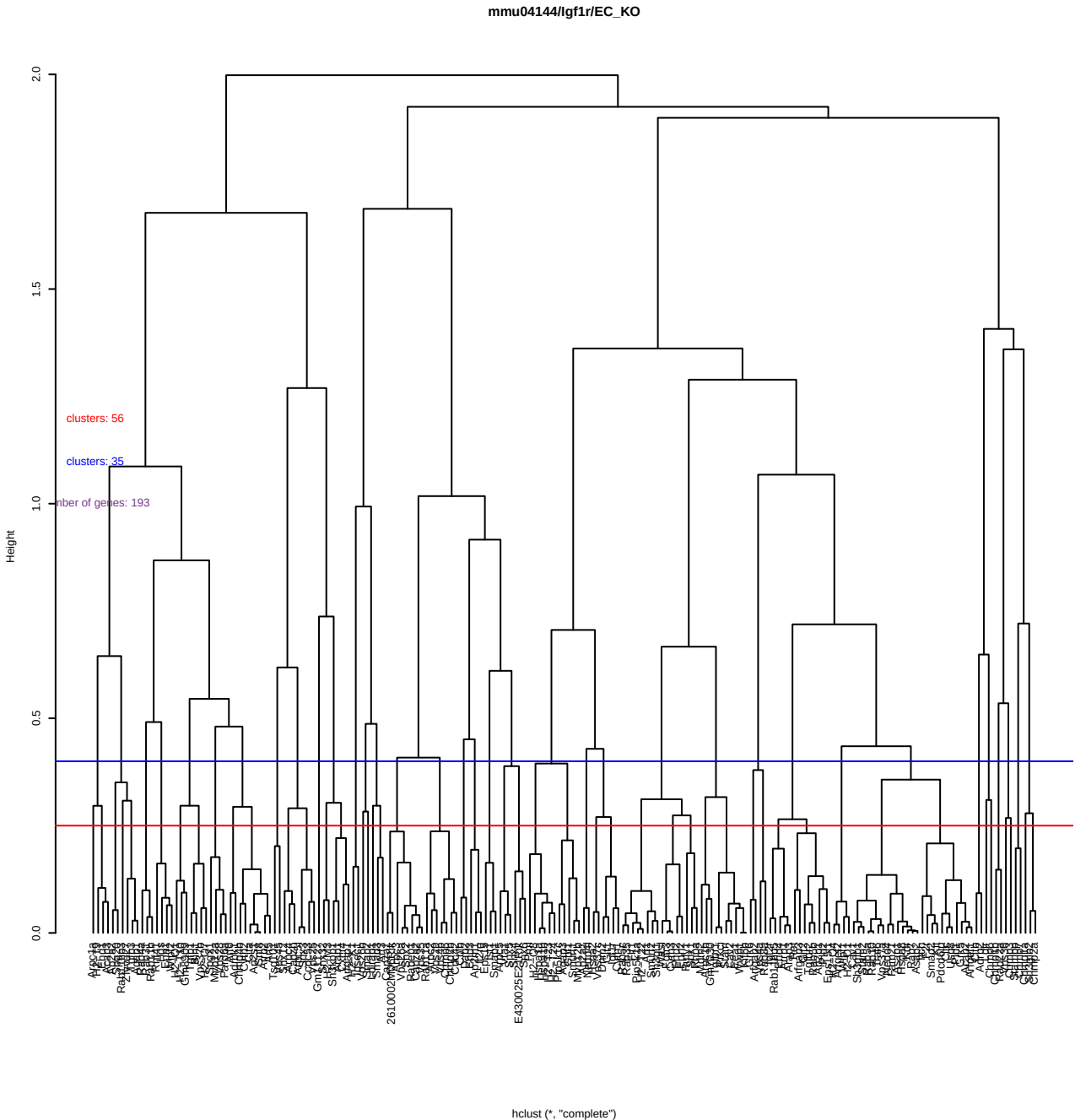

mmu04114/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 31
clusters: 23
mber of genes: 73
Cdc16
Anapc4
Anapc10
Cdc26
Ppp2r5d
Ppp1ca
Mad2l2
Ppp3cc
Aurka
Mad2l1
Ccnb2
Cdc20
Pttg1
Ywhag
Rbx1
Anapc7
Camk2d
Igf1
Cpeb2
Ywhah
Anapc5
Btrc
Cdc23
Ywhae
Anapc13
Calml4
Anapc11
Calm3
Prkaca
Rps6ka1
Anapc2
Ppp2r1a
Mapk3
Mapk12
Adcy4
Ppp2r5b
Rps6ka2
Itpr3
Camk2g
Skp1a
Smc3
Ppp2cb
Ywhab
Smc1a
Cdk2
Rps6ka3
Slk
Map2k1
Adcy6
Cpeb4
Igf1r
Ppp3ca
Anapc1
Itpr2
Prkacb
Ppp2r5a
Ppp2r5c
Ppp2r1b
Mapk1
Ywhaz
Fbxw11
Itpr1
Ppp3cb
Cul1
Ppp1cb
Cdc27
Calm1
Ywhaq
Calm2
Ppp1cc
Ppp2ca
Ppp2r5e
Ppp3r1
hclust (*, "complete")

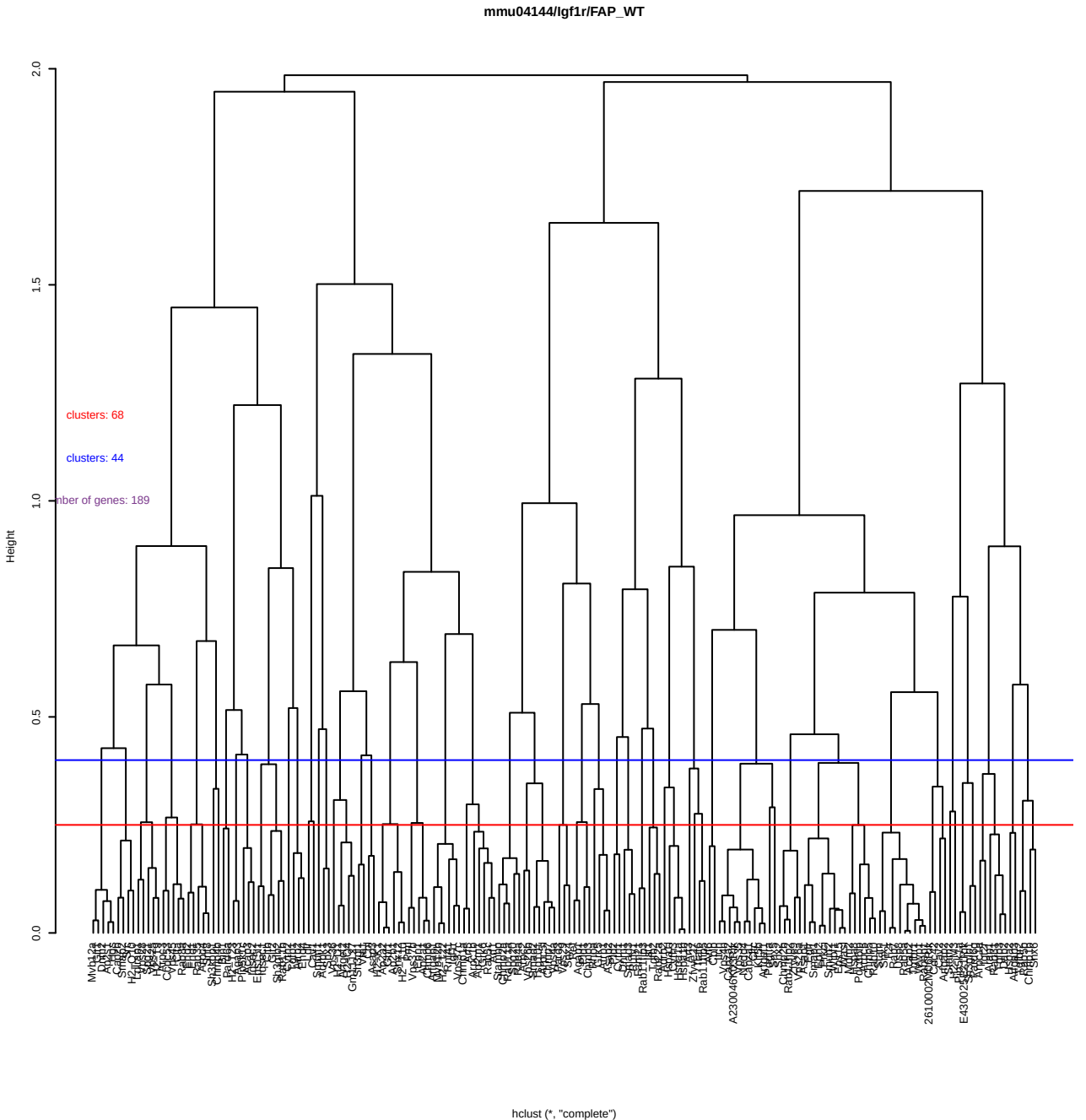

mmu04114/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 24
clusters: 20
umber of genes: 69
Calm3
Mapk3
Anapc2
Mad2l2
Brc
Prkaca
Anapc7
Ywhae
Mad2l1
Cdc23
Cdc20
Cdc26
Calml4
Rbx1
Anapc13
Rps6ka1
Anapc11
Pttg1
Ppp3ca
Camk2d
Anapc10
Cul1
Anapc4
Skp1a
Ywhab
Ppp2r5c
Ppp2r1b
Ywhah
Cdk2
Calm2
Ppp1cb
Map2k1
Ppp2cb
Ywhaq
Ppp2ca
Rps6ka3
Smc1a
Ppp2r5e
Mapk1
Anapc1
Fbxw11
Ywhaz
Slk
Ppp3r1
Smc3
Cdc27
Ppp3cb
Cdc16
Calm1
Prkacb
Ppp1cc
Mapk12
Ppp2r5d
Ppp2r1a
Ppp3cc
Ppp1ca
Anapc5
Adcy6
Igf1r
Ppp2r5b
Ppp2r5a
Itpr1
Itpr3
Rps6ka2
Adcy4
Camk2g
Itpr2
Cpeb2
Ywhag
hclust (*, "complete")

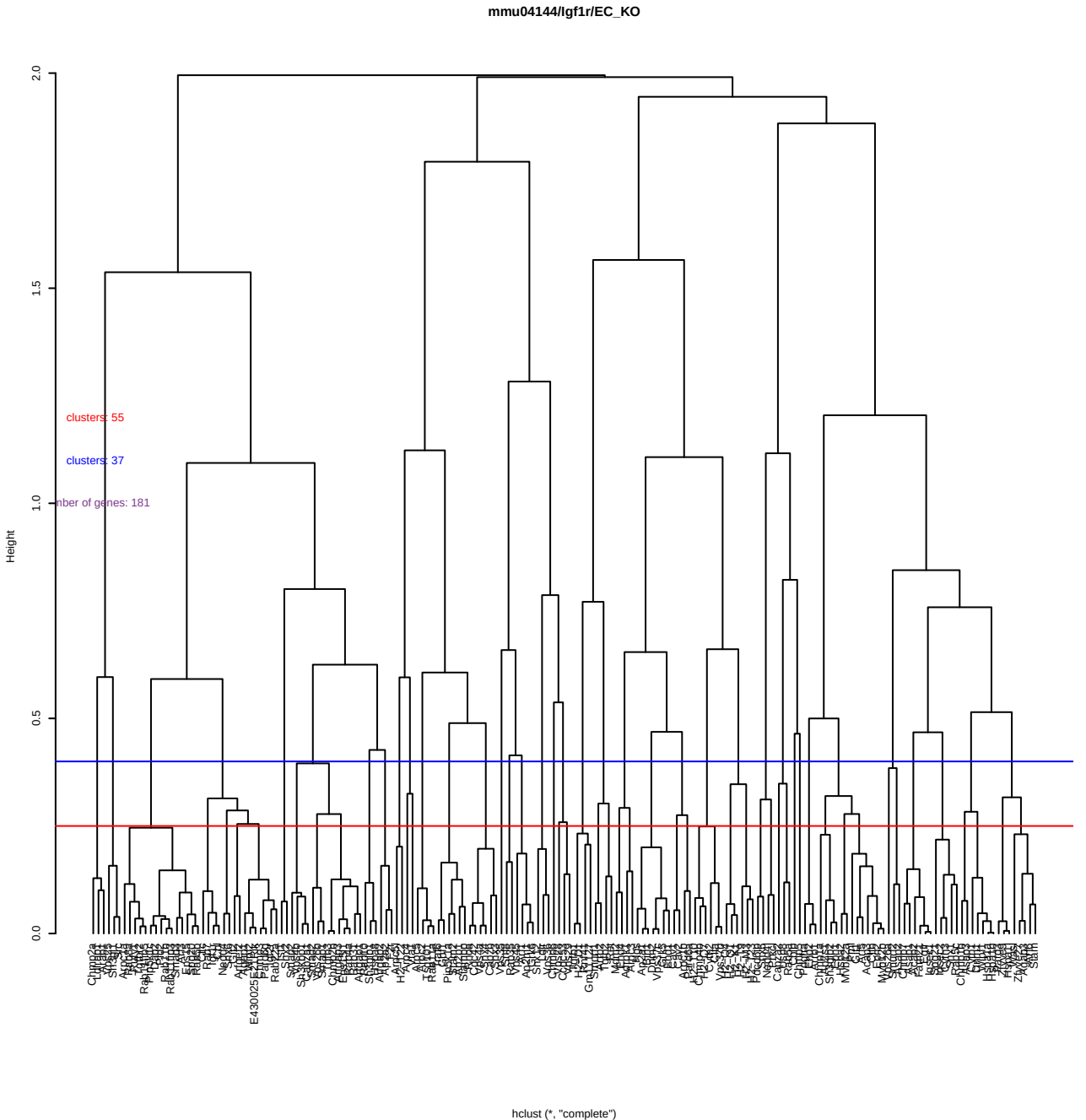

mmu04114/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 34
clusters: 25
mber of genes: 74
Ywhaq
Calm1
Ppp3cc
Rps6ka2
Ppp2r5a
Ppp2r5e
Ppp1cc
Calm2
Fbxw11
Anapc10
Ppp2ca
Anapc4
Smc1a
Mapk1
Ywhab
Ppp2cb
Map2k1
Rps6ka3
Cdc27
Smc3
Ywhaz
Slk
Adcy5
Prkacb
Cdc16
Ppp2r5c
Igf1
Adcy7
Camk2d
Itpr1
Skp1a
Ppp3r1
Ppp1cb
Ppp3cb
Ywhah
Calml4
Mad2l2
Adcy3
Ppp1ca
Anapc7
Itpr3
Rbx1
Anapc13
Anapc5
Anapc11
Ppp2r5d
Prkaca
Anapc2
Calm3
Mad2l1
Ppp2r1a
Ccnb2
Ywhag
Ppp2r1b
Ywhae
Cdc23
Cdk2
Anapc1
Igf1r
Ppp2r5b
Adcy6
Cul1
Ppp3ca
Cpeb4
Camk2g
Btrc
Pttg1
Adcy4
Mapk3
Cdc26
Itpr2
Adcy2
Cpeb1
Mapk12
hclust (*, "complete")

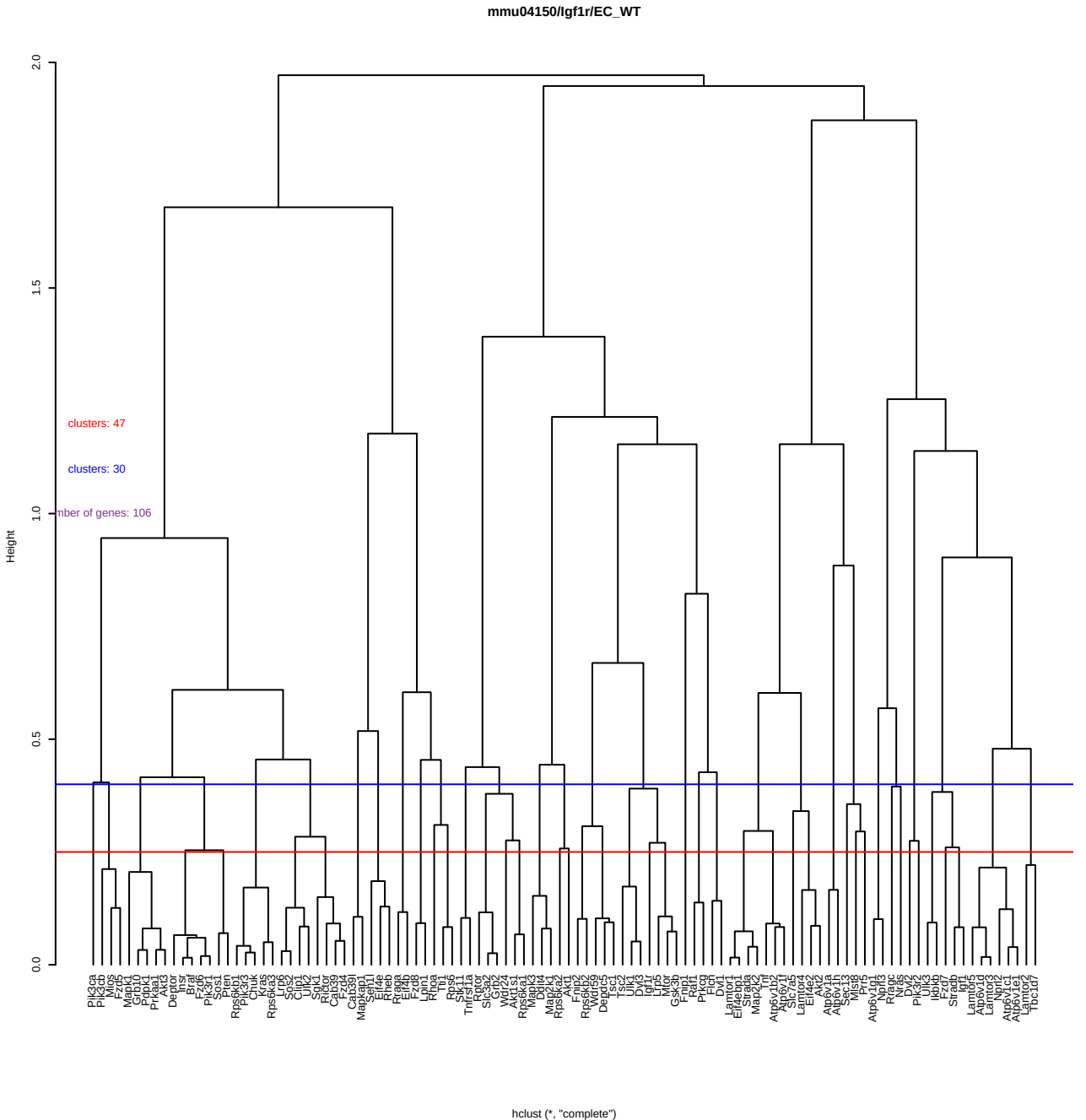

mmu04114/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 26
clusters: 19
mber of genes: 71
Prkacb
Ppp2r5e
Ywhaz
Ppp3r1
Ppp1cb
Ppp3ca
Ppp3cb
Anapc1
Igf1r
Fbxw11
Igf1
Cul1
Adcy2
Brc
Adcy7
Ppp2r5b
Itpr2
Ppp2r1b
Ywhae
Cdk2
Calm1
Skp1a
Smc3
Ywhab
Mapk1
Cdc23
Cdc16
Ppp2cb
Smc1a
Ppp2ca
Calm2
Ywhah
Anapc4
Ppp2r1a
Ppp1ca
Anapc7
Ppp1cc
Cdc26
Prkaca
Anapc5
Rbx1
Rps6ka2
Ppp2r5c
Pttg1
Mad2l2
Map2k1
Ywhag
Cdc20
Ccnb2
Mad2l1
Cdk1
Plk1
Ywhaq
Anapc11
Camk2g
Rps6ka3
Ppp3cc
Adcy5
Adcy4
Adcy6
Camk2d
Itpr1
Adcy3
Cpeb1
Ppp2r5a
Mapk3
Anapc13
Anapc2
Ppp2r5d
Calm3
Mapk12
hclust (*, "complete")

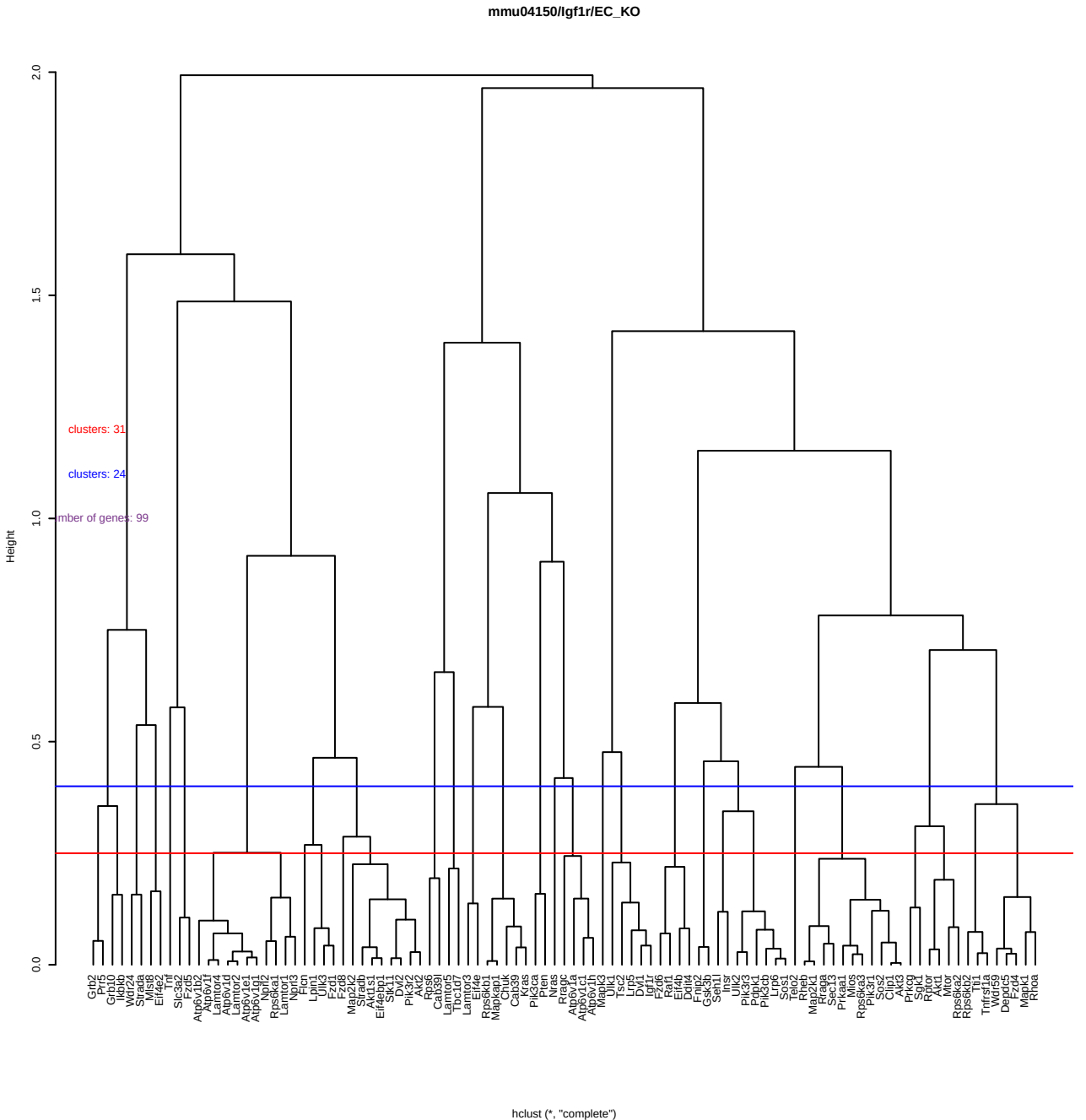

mmu04144/Igf1r/EC_WT
clusters: 58
clusters: 40
nber of genes: 197
Height
2.0
1.5
1.0
0.5
0.0
hclust (*, "complete")

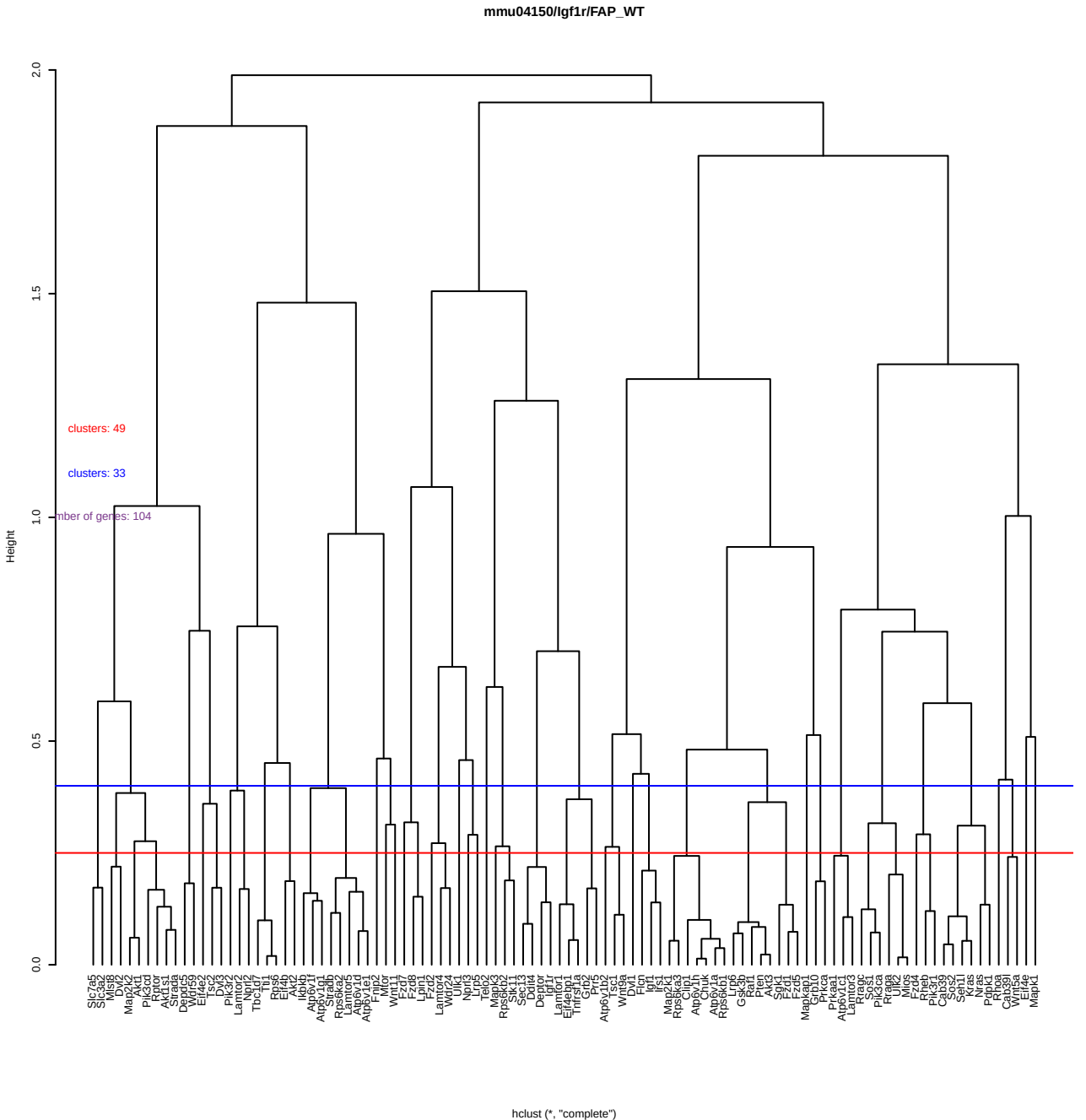

mmu04144/Igf1r/EC_KO
clusters: 56
clusters: 35
nber of genes: 193
Height
0.0
0.5
1.0
1.5
2.0
hclust (*, "complete")


mmu04144/Igf1r/FAP_WT
Height
0.0
0.5
1.0
1.5
2.0
clusters: 68
clusters: 44
nber of genes: 189
hclust (*, "complete")

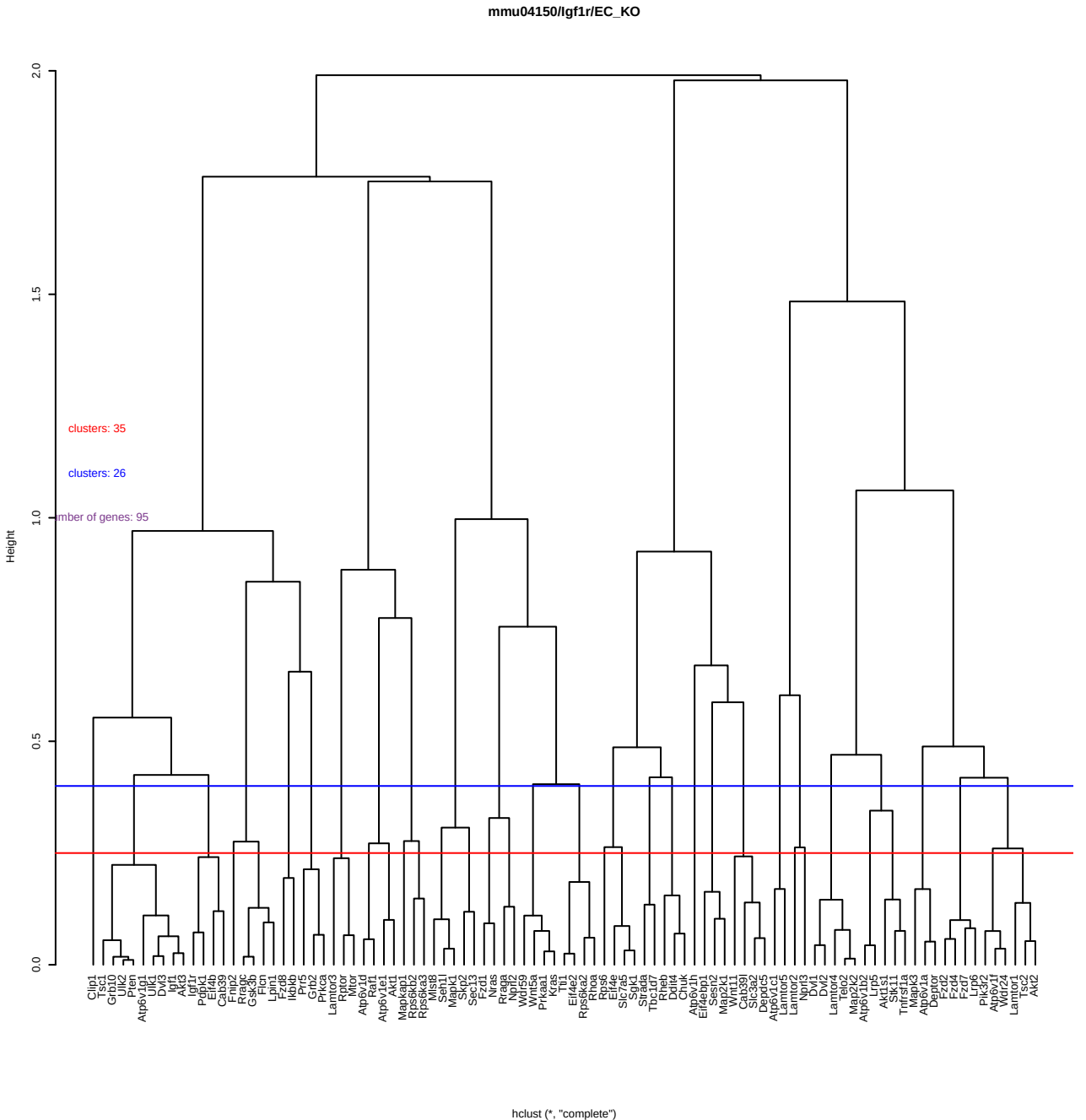

mmu04144/Igf1r/EC_KO
clusters: 55
clusters: 37
nber of genes: 181
Height
2.0
1.5
1.0
0.5
0.0
hclust (*, "complete")

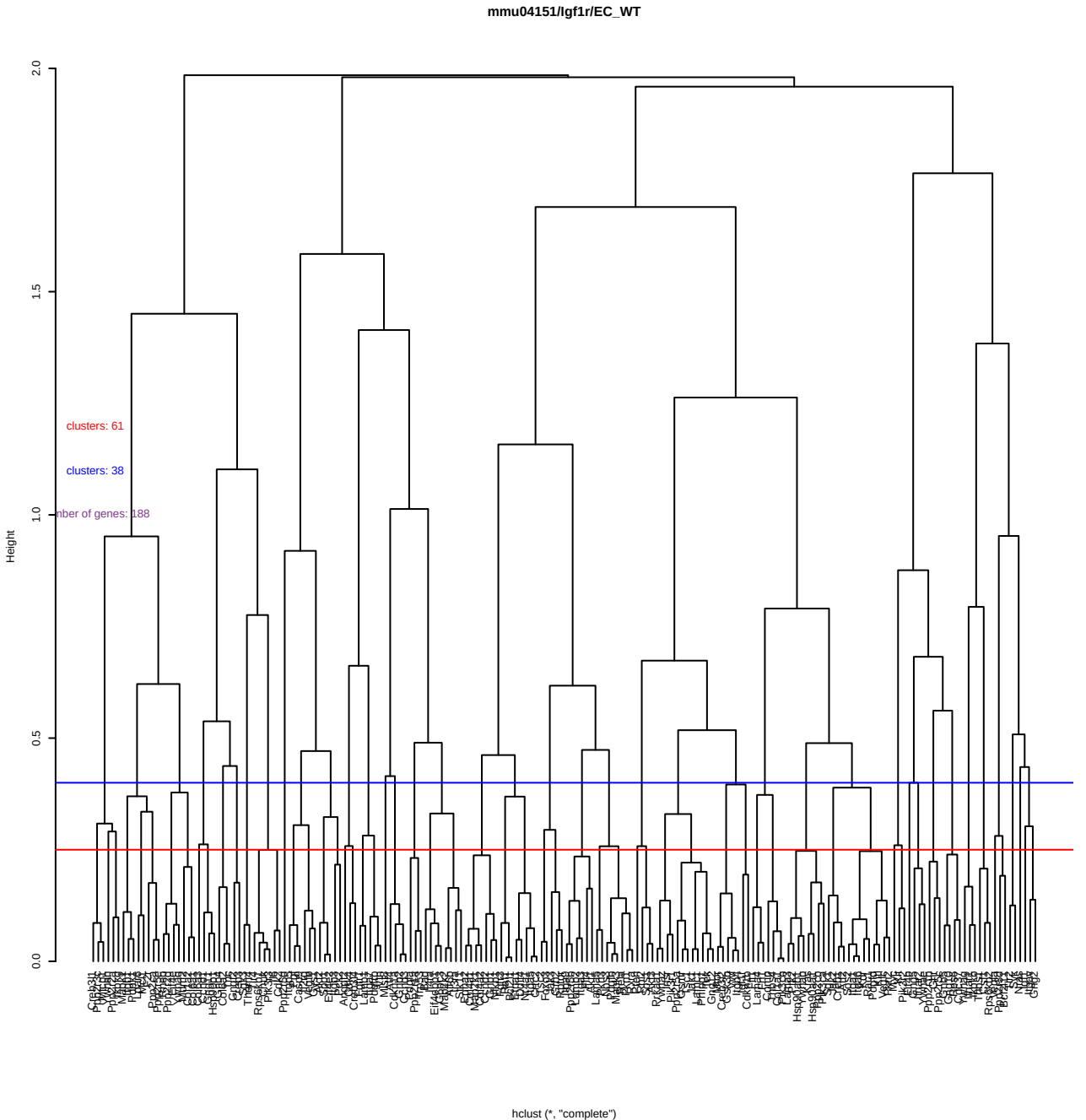

mmu04150/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 47
clusters: 30
nber of genes: 106
Pik3ca
Pik3cb
Mlqs
Fzd5
Map4k4
Grb10
Pdpk1
Prkaa1
Akt3
Deptor
Insr
Braf
Fzd6
Pik3r1
Sos1
Pten
Rps6ka3
Pik3r3
Chuk
Kras
Rps6ka3
Sos2
Clip1
Ulk2
Sik2
Rictor
Cab39
Fzd4
Cab39l
Mapkap1
Sgk1l
Eif4e
Eif4ebp1
Rraga
Eif4b
Fzd8
Lamtor1
Rhoa
Tsc1
Rps6
Sfn
Tnfrsf11a
Rptor
Slc3a2
Vps34
Wdr24
Akt1s1
Rps6ka1
Mdm2
Mapk3
Map2k1
Rps6ka2
Akt1
Fnip1
Rps6kb2
Wdr59
Deptor
Tsc2
Ulk1
Dvl3
Lpin1
Lpin2
Mtor
Gsk3b
Fnip2
Raf1
Prkcg
Fbn
Lamtor1
Eif4ebp1
Strada
Map2k2
Atp6v1b2
Atp6v1f
Slc7a5
Lamtor2
Eif4e2
Akt2
Atp6v1a
Atp6v1d
Sec13
Mlst8
Irr15
Atp6v1h
Nphp3
Rraga
Nras
Dvl2
Pik3r2
Ulk3
Ikbkb
Fzd7
Strad
Igf1
Lamto5
Atp6v1d
Lamtor3
Npn2
Atp6v1e1
Atp6v1c1
Lamtor7
Tbc1d7
hclust (*, "complete")

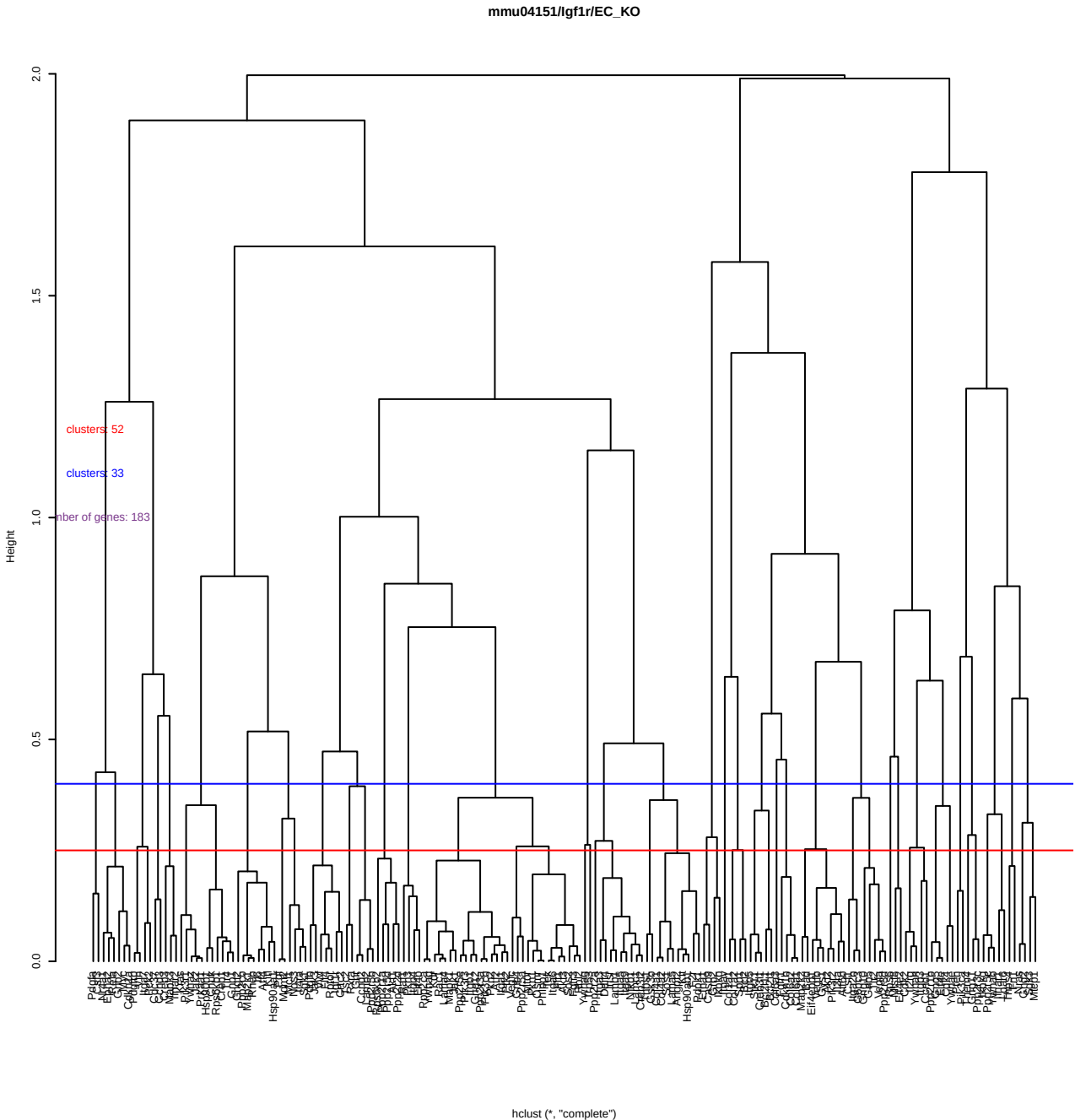

mmu04150/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 31
clusters: 24
mber of genes: 99
Grb2
Prr5
Grb10
Ikbkb
Wdr24
Smg8
Mlst8
Eif4e2
Tnf
Slc3a2
Fzd5
Atp6v1b2
Atp6v1f
Lamtor4
Atp6v1d
Lamtor2
Atp6v1e1
Atp6v1g1
Npif2
Rps6ka1
Lamtor1
Vps13
Flcn
Lpin1
Ulk3
Fzd1
Fzd8
Map2k6
Sfrad6
Akt1s1
Eif4ebp1
Skt1
Dvl2
Pik3r2
Akt2
Rps6
Cab39l
Lamtor5
Tbc1d7
Lamtor3
Eif4e
Rps6kb1
Map4k4
Cab39
Kras
Pik3ca
Nfen
Nras
Rragc
Atp6v1a
Atp6v1c1
Atp6v1h
Mapkap1
Ulk1
Tsc2
Lrp5
Dvl1
Igf1r
Fzd6
Rat1
Eif4b
Ddit4
Fnip2
Gsk3b
Seh1l
Insr
Ulk2
Pik3r3
Prkd1
Pik3cb
Lrp6
Sos1
Telo2
Rheb
Map2k1
Rraga
Sec13
Prkaa1
Mios
Rps6ka3
Pik3r1
Sos2
Clip1
Akt3
Rraga
Stk11
Rptor
Mtor
Akt1
Mtor
Rps6ka2
Rps6kb2
Thl1
Tnfrsf1a
Wdr59
Depdc5
Fzd4
Mapk4
Rhoa
hclust (*, "complete")

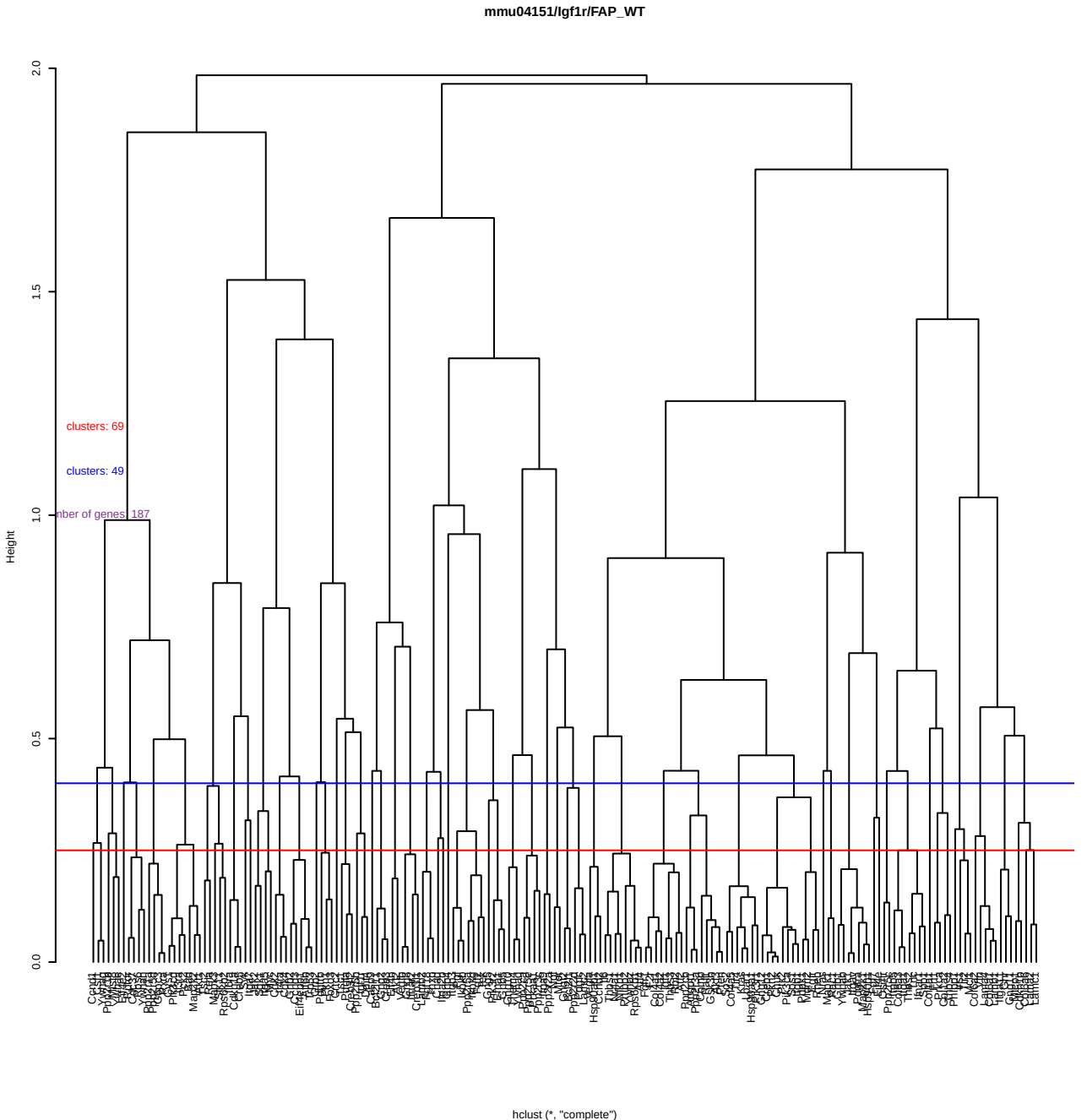


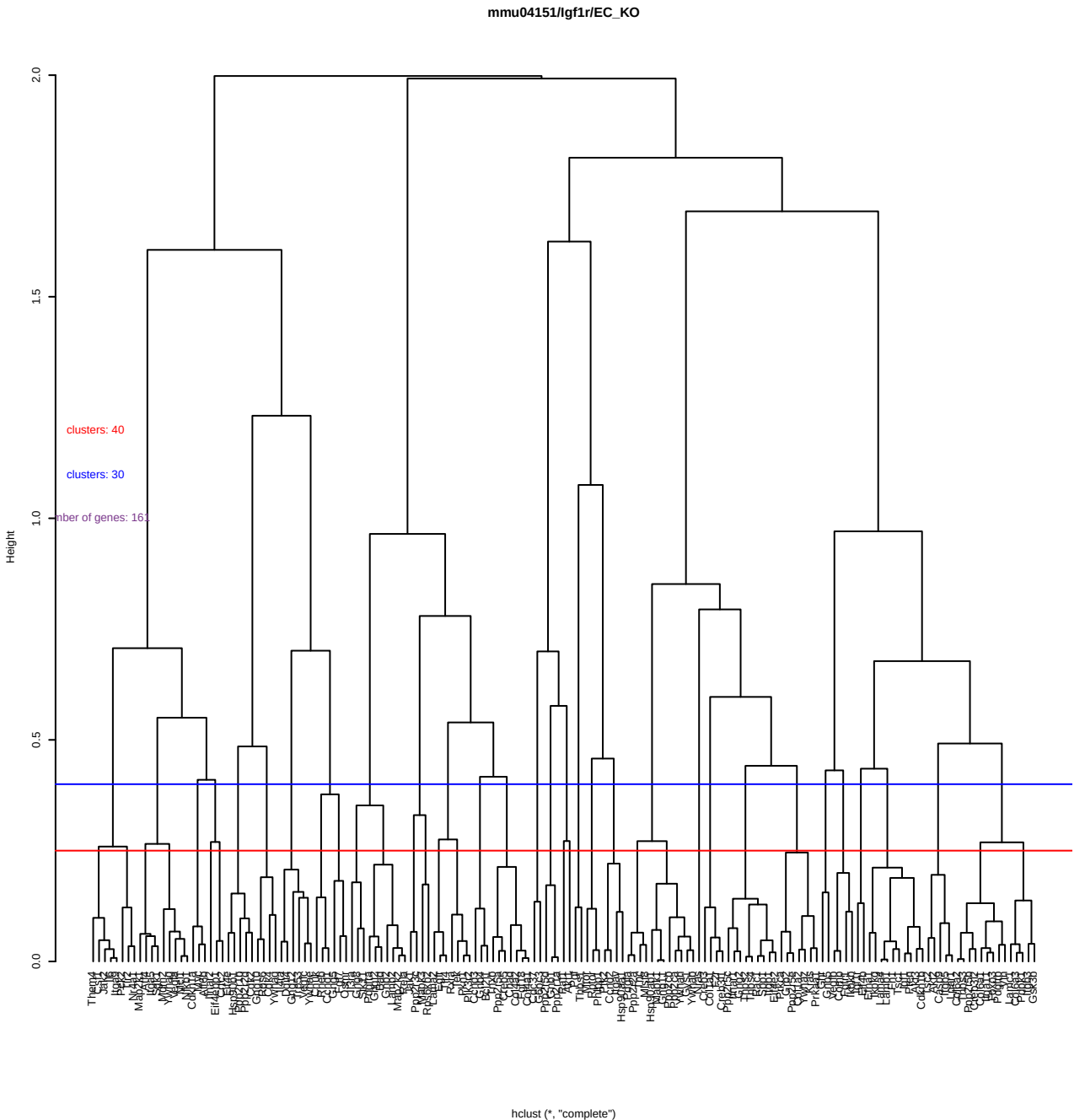
hclust (*, "complete")

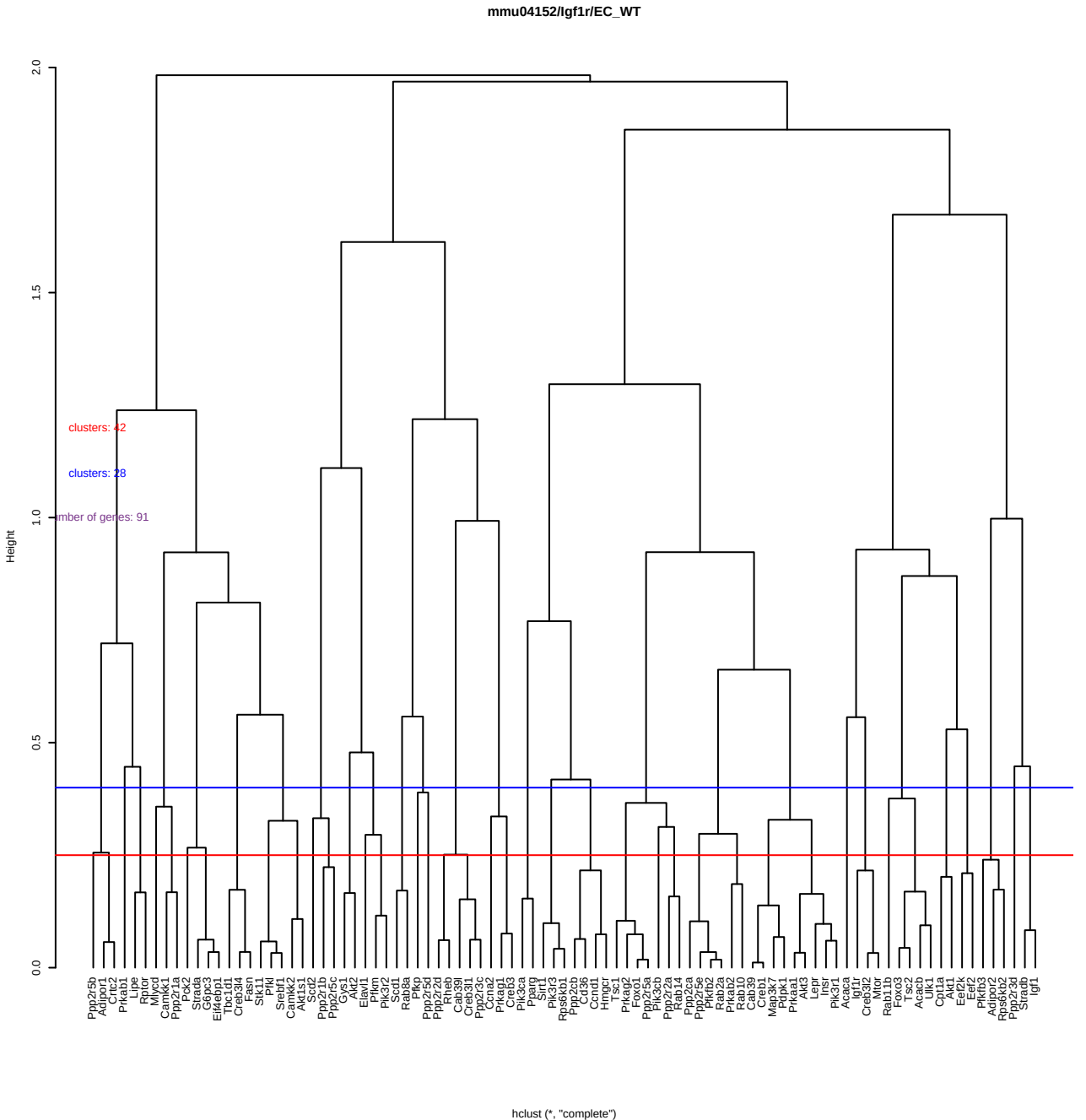

mmu04150/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 35
clusters: 26
mber of genes: 95
Clip1
Tsc1
Grb10
Ulk2
Pten
Atp6v1g1
Ulk1
Dvl3
Igf1
Akt3
Igf1r
Pdpk1
Eif4b
Cab39
Fnip2
Rragc
Gsk3b
Flcn
Lpin1
Fzr1
Ikbkb
Prr5
Grb2
Prkca
Lamtor3
Rptor
Mtor
Atp6v1d
Raf1
Atp6v1e1
Akt1
Mapkap1
Rps6ka2
Rps6ka3
Mlst8
Sen1l
Mapk1
Skp2
Sec13
Fzr1
Nras
Rraga
Npl2
Wdr59
Wnt5a
Prkaa1
Kras
Tlr1
Eif4e2
Rps6ka2
Rhoa
Rps6
Eif4e
Slc7a5
Sgk1
Strada
Tbc1d7
Rheb
Dvl4
Chuk
Atp6v0k
Eif4ebp1
Sesn2
Map2k1
Wnt11
Cab39l
Slc38a2
Depdc5
Atp6v1c1
Lamtor5
Lamtor2
Npr3
Dvl1
Dvl2
Lamtor4
Telo2
Map2k2
Atp6v1b2
Lrp5
Akt1s1
Stk11
Tnfrsf1a
Mapk3
Atp6v1a
Depto
Fzr2
Fzd4
Fzd7
Lrp6
Pik3r2
Atp6v1f
Wdr24
Lamtor1
Tsc2
Akt2
hclust (*, "complete")


mmu04151/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 61
clusters: 38
nber of genes: 188
hclust (*, "complete")

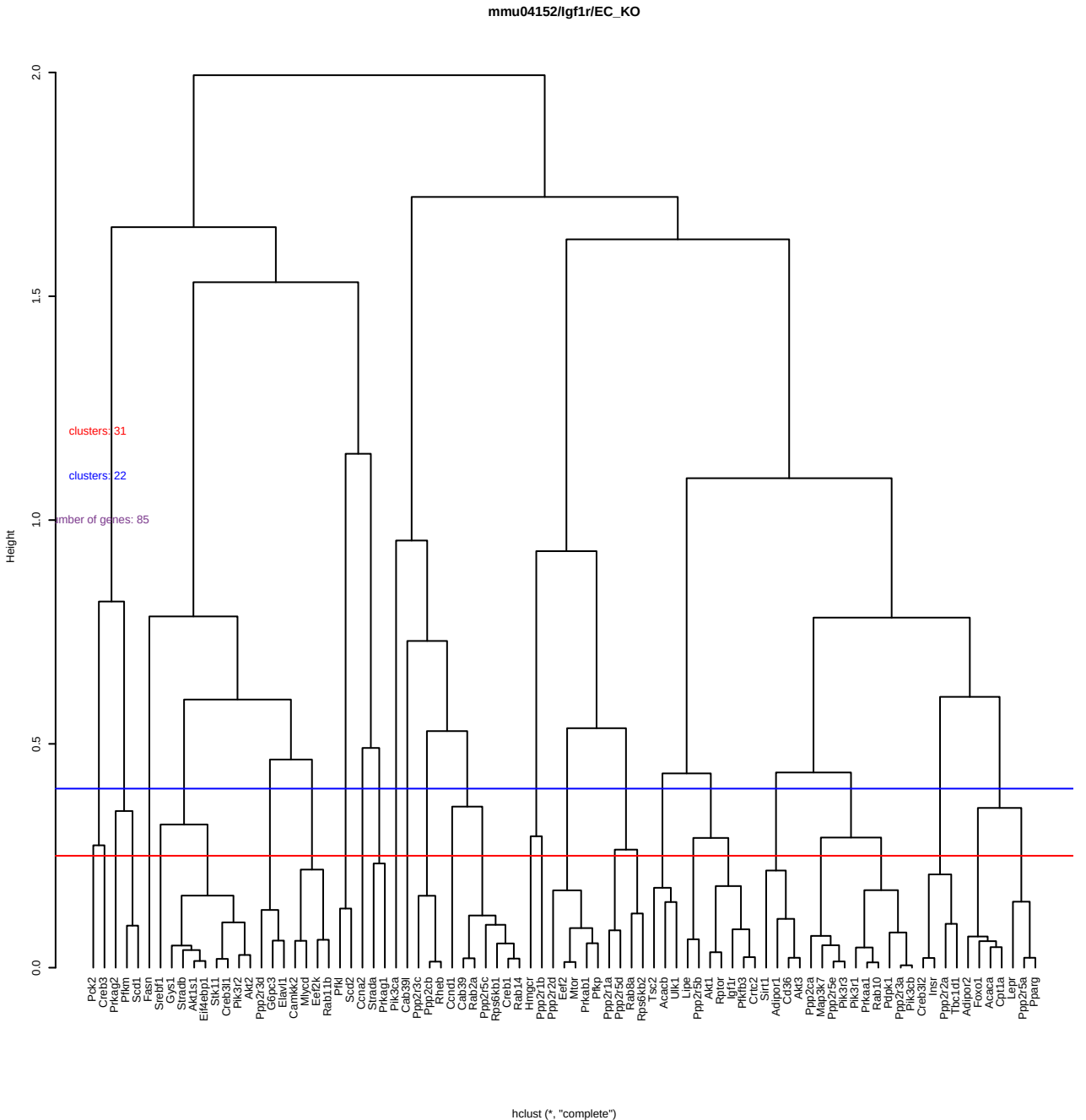

mmu04151/Igf1r/EC_KO
clusters: 52
clusters: 33
nber of genes: 183
Height
0.0
0.5
1.0
1.5
2.0
hclust (*, "complete")

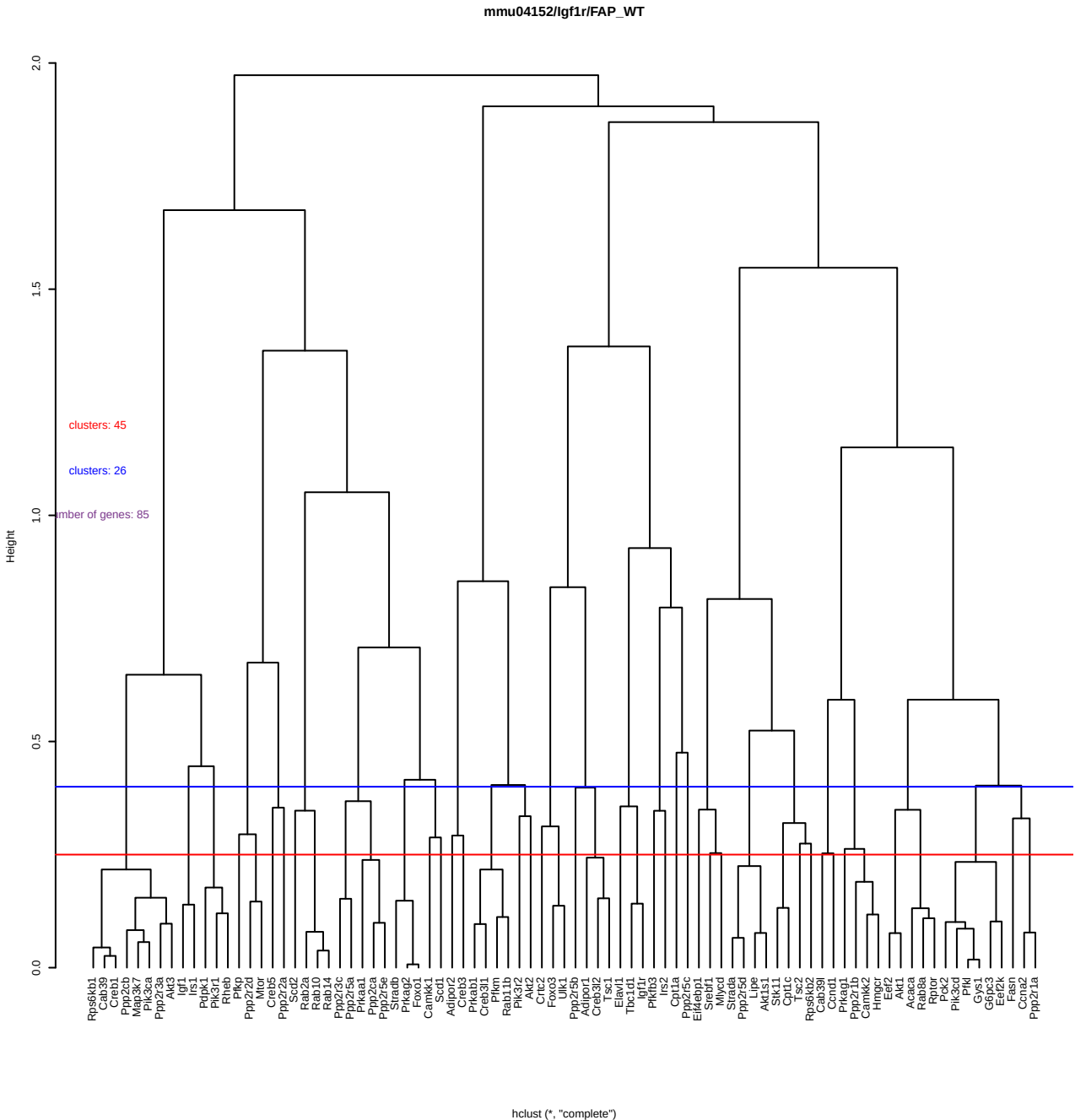

mmu04151/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 69
clusters: 49
nber of genes: 187
hclust (*, "complete")

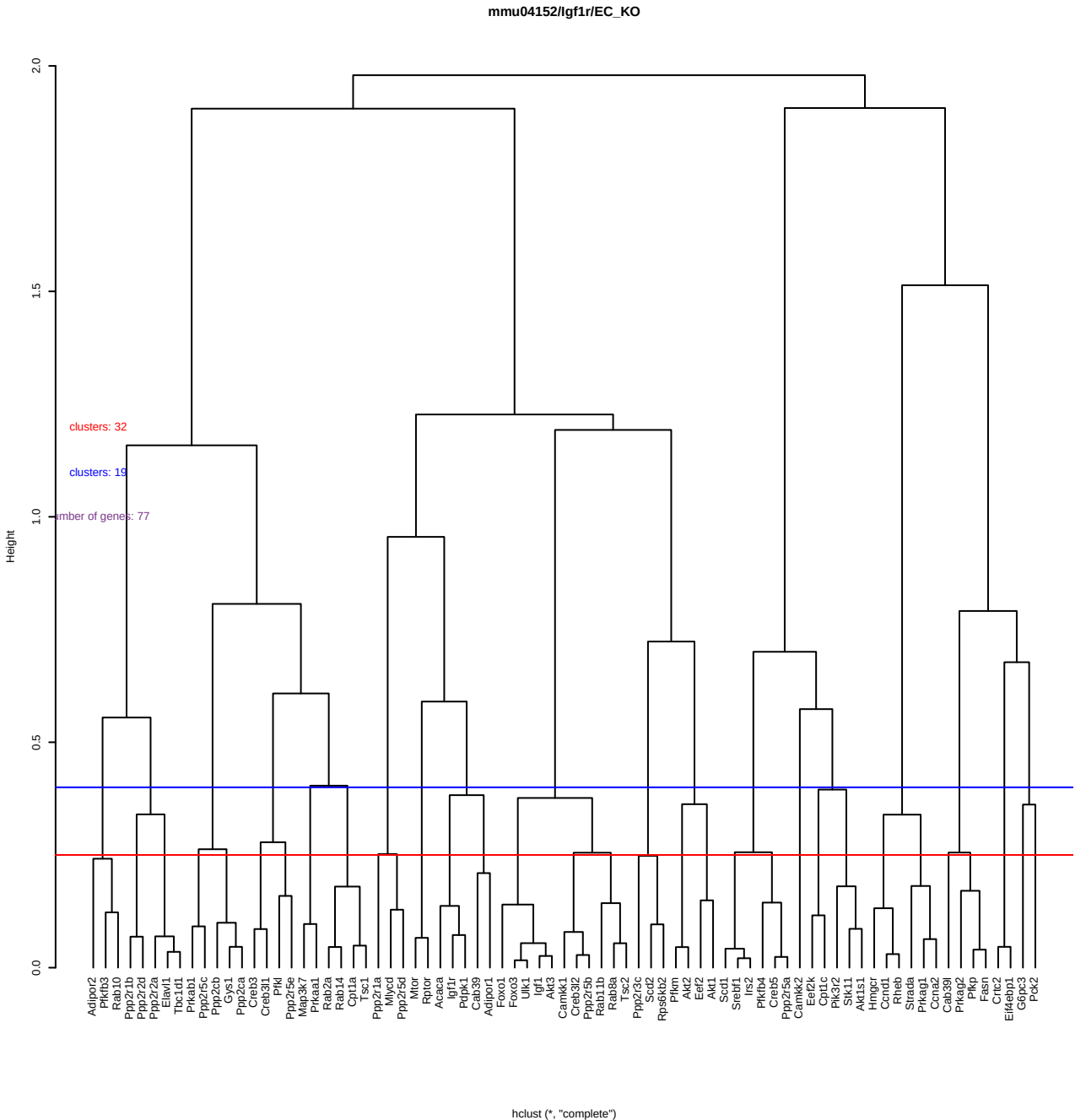

mmu04151/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 40
clusters: 30
nber of genes: 161
hclust (*, "complete")

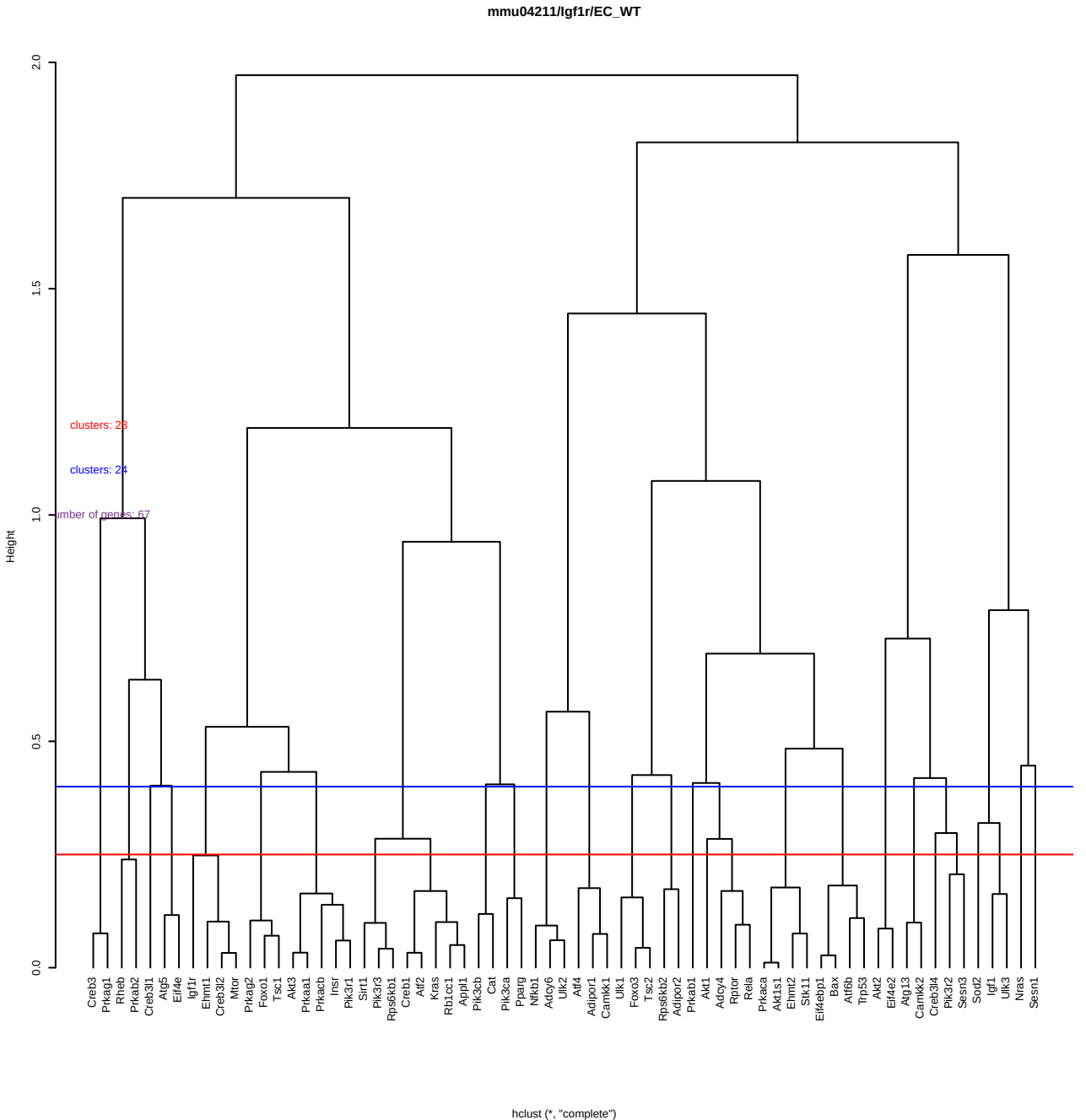


hclust (*, "complete")


mmu04152/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 31
clusters: 22
mber of genes: 85
Pck2
Creb3
Prkag2
Pfkm
Scd1
Fasn
Srebf1
Gys1
Stradb
Akt1s1
Eif4ebp1
Stk11
Creb3l1
Pik3r2
Akt2
Ppp2r3d
G6pc3
Eif4ebp2
Camkk2
Mlycd
Eef2k
Rab11b
Pfkl
Scd2
Ccna2
Strada
Prkag1
Pik3ca
Cab39l
Ppp2r3c
Ppp2cb
Rheb
Ccnd1
Cab39
Rab2a
Ppp2r5c
Rps6kb1
Creb1
Rab14
Hmgcr
Ppp2r1b
Ppp2r2d
Eef2
Mtor
Prkab1
Pkp
Ppp2r1a
Ppp2r5d
Rab8a
Rps6kb2
Tsc2
Acacb
Ulk1
Lipe
Ppp2r5b
Akt1
Rptor
Igf1r
Pik3cg
Crtc2
Sirt1
Adipor1
Cd36
Akt3
Ppp2ca
Map3k7
Ppp2r5e
Pik3r3
Pik3r1
Prkaa1
Rab10
Pdpk1
Ppp2r3a
Pik3cb
Creb3l2
Insr
Ppp2r2a
Tbc1d1
Adipor2
Foxo1
Acaca
Cpt1a
Lepr
Ppp2r5a
Pparg
hclust (*, "complete")


mmu04152/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 45
clusters: 26
mber of genes: 85
Rps6kb1
Cab39
Creb1
Ppp2cb
Map3k7
Pik3ca
Ppp2r3a
Akt3
Igf1
Irs1
Pdpk1
Pik3r1
Rheb
Pfkp
Ppp2r2d
Mtor
Creb5
Ppp2r2a
Sgk2
Rab2a
Rab10
Rab14
Ppp2r3c
Ppp2r5a
Prkaa1
Ppp2ca
Ppp2r5e
Stradb
Prkag2
Foxo1
Camkk1
Scd1
Adipor2
Creb3
Prkab1
Creb3l1
Pfkfb
Rab11b
Pik3r2
Akt2
Crtc2
Foxo3
Ulk1
Ppp2r5b
Adipor1
Creb3l2
Tsc1
Elavl1
Tbc1d1
Igf1r
Pfkfb3
Irs2
Cpt1a
Ppp2r5c
Eif4ebp1
Srebf1
Mlycd
Slc16a
Ppp2r5d
Lipe
Akt1s1
Stk11
Cpt1c
Tsc2
Rps6kb2
Cab39l
Ccnd1
Prkag1
Ppp2r1b
Camkk2
Hmgcr
Eef2
Akt1
Acaca
Rab8a
Rptor
Ppp2r2
Pik3cd
PFK
Gys1
G6pc3
Eef2k
Fasn
Ccna2
Ppp2r1a
hclust (*, "complete")


mmu04152/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 32
clusters: 19
mber of genes: 77
Adipor2
Pfkfb3
Rab10
Ppp2r1b
Ppp2r2d
Ppp2r2a
Elavl1
Tbc1d1
Prkab1
Ppp2r5c
Ppp2cb
Gys1
Ppp2ca
Creb3
Creb3l1
Pfkl
Ppp2r5e
Map3k7
Prkaa1
Rab2a
Rab14
Cpt1a
Tsc1
Ppp2r1a
Mlycd
Ppp2r5d
Mtor
Rptor
Acaca
Igf1r
Pdpk1
Cab39
Adipor1
Foxo1
Foxo3
Ulk1
Igf1
Akt3
Camkk1
Creb3l2
Ppp2r5b
Rab11b
Rab8a
Tsc2
Ppp2r3c
Scd2
Rps6kb2
Pfkm
Akt2
Eef2
Akt1
Scd1
Srebf1
Irs2
Pfkfb4
Creb5
Ppp2r5a
Camkk2
Eef2k
Cpt1c
Pik3r2
Slk11
Akt1s1
Hmgcr
Cond1
Rheb
Strada
Prkag1
Ccna2
Cab39l
Prkag2
Pkp
Fasn
Crtc2
Eif4ebp1
G6pc3
Pck2
hclust (*, "complete")


mmu04211/Igf1r/EC_WT
Height
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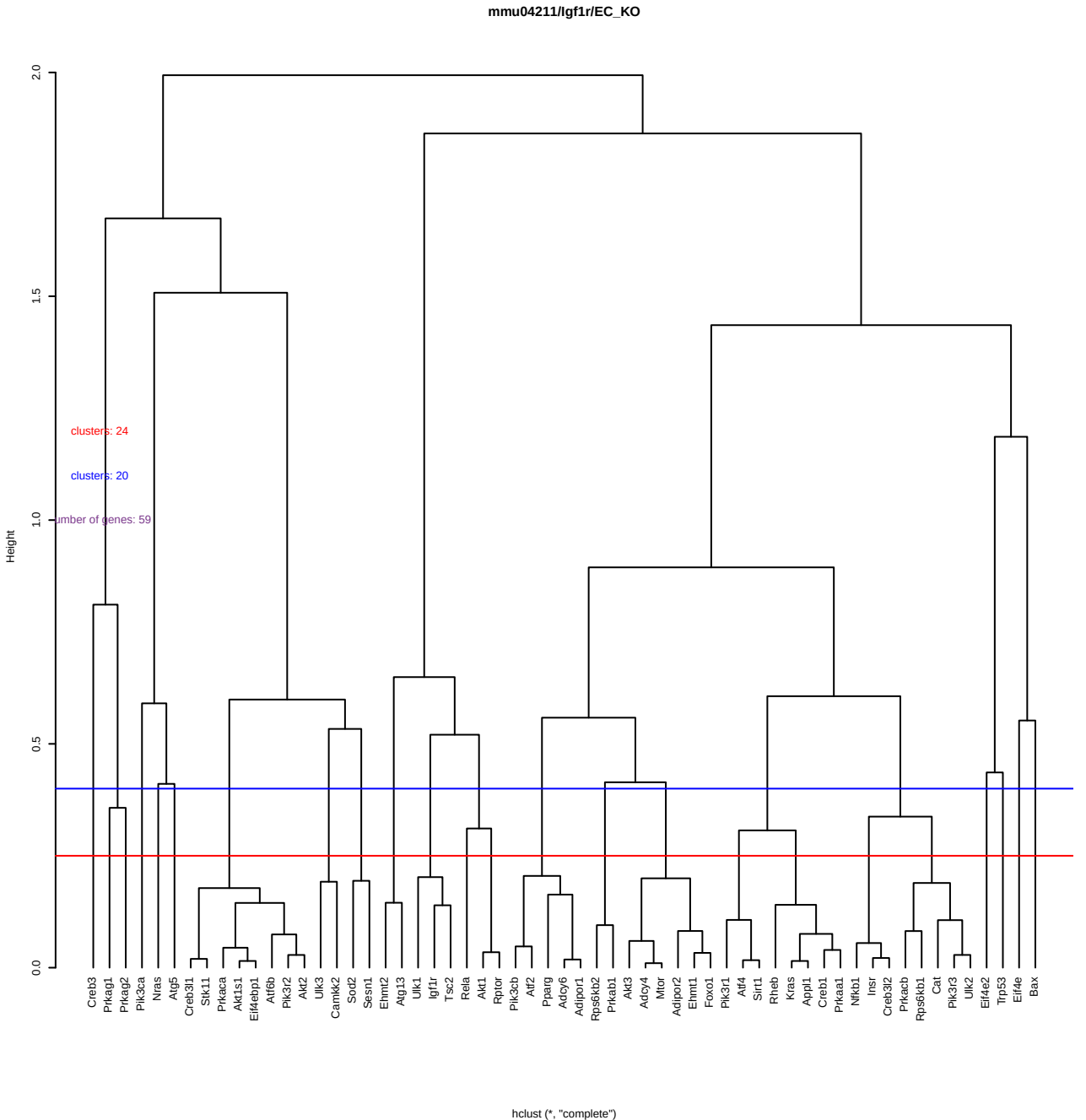
clusters: 23
clusters: 24
umber of genes: 67
Creb3
Prkag1
Rheb
Prkab2
Creb3l1
Atg5
Eif4e
Igf1r
Ehmt1
Creb3l2
Mtor
Prkag2
Foxo1
Tsc1
Akt3
Prkaa1
Prkacb
Insr
Pik3r1
Sirt1
Pik3r3
Rps6kb1
Creb1
Atf2
Kras
Rb1cc1
Appl1
Pik3cb
Cat
Pik3ca
Pparg
Nfkb1
Adcy6
Ulk2
Atf4
Adipor1
Camkk1
Ulk1
Foxo3
Tsc2
Rps6kb2
Adipor2
Prkab1
Akt1
Adcy4
Rptor
Rela
Prkaca
Akt1s1
Ehmt2
Stk11
Eif4ebp1
Bax
Atf6b
Trp53
Akt2
Eif4e2
Atg13
Camkk2
Creb3l4
Pik3r2
Sesn3
Sod2
Igf1
Ulk3
Nras
Sesn1
hclust (*, "complete")


mmu04211/Igf1r/EC_KO
Height
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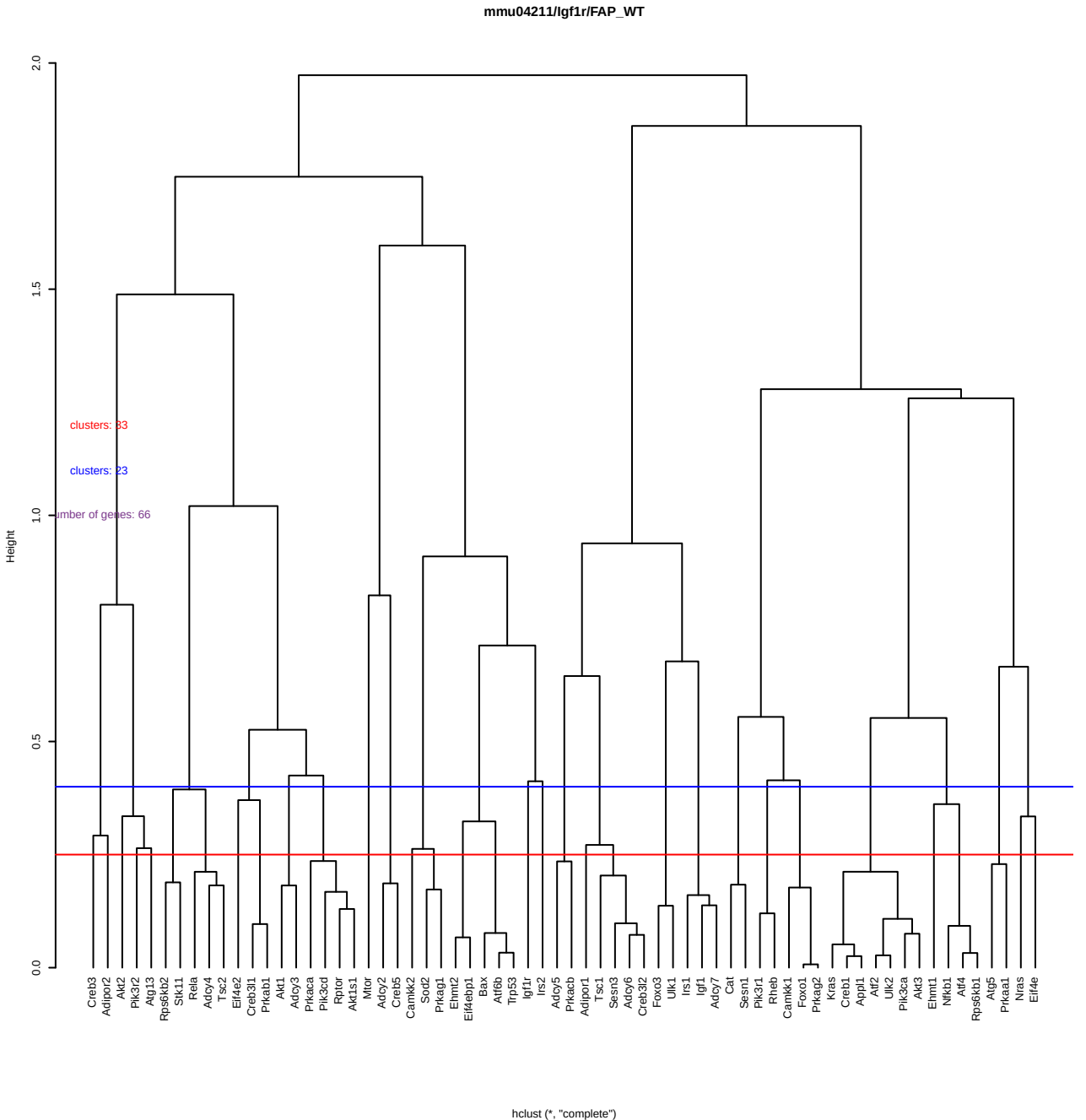
1.5
2.0
clusters: 24
clusters: 20
umber of genes: 59
Creb3
Prkag1
Prkag2
Pik3ca
Nras
Atg5
Creb3l1
Stk11
Prkaca
Akt1s1
Eif4ebp1
Atf6b
Pik3r2
Akt2
Ulk3
Camkk2
Sod2
Sesn1
Ehmt2
Atg13
Ulk1
Igf1r
Tsc2
Rela
Akt1
Rptor
Pik3cb
Atf2
Ppargc
Adcy6
Adipor1
Rps6kb2
Prkab1
Akt3
Adcy4
Mtor
Adipor2
Ehmt1
Foxo1
Pik3r1
Atf4
Sirt1
Rheb
Kras
Appl1
Creb1
Prkaa1
Nfkb1
Insr
Creb3l2
Prkacb
Rps6kb1
Cat
Pik3r3
Ulk2
Eif4e2
Trp53
Eif4e
Bax
hclust (*, "complete")


mmu04211/Igf1r/FAP_WT
Height
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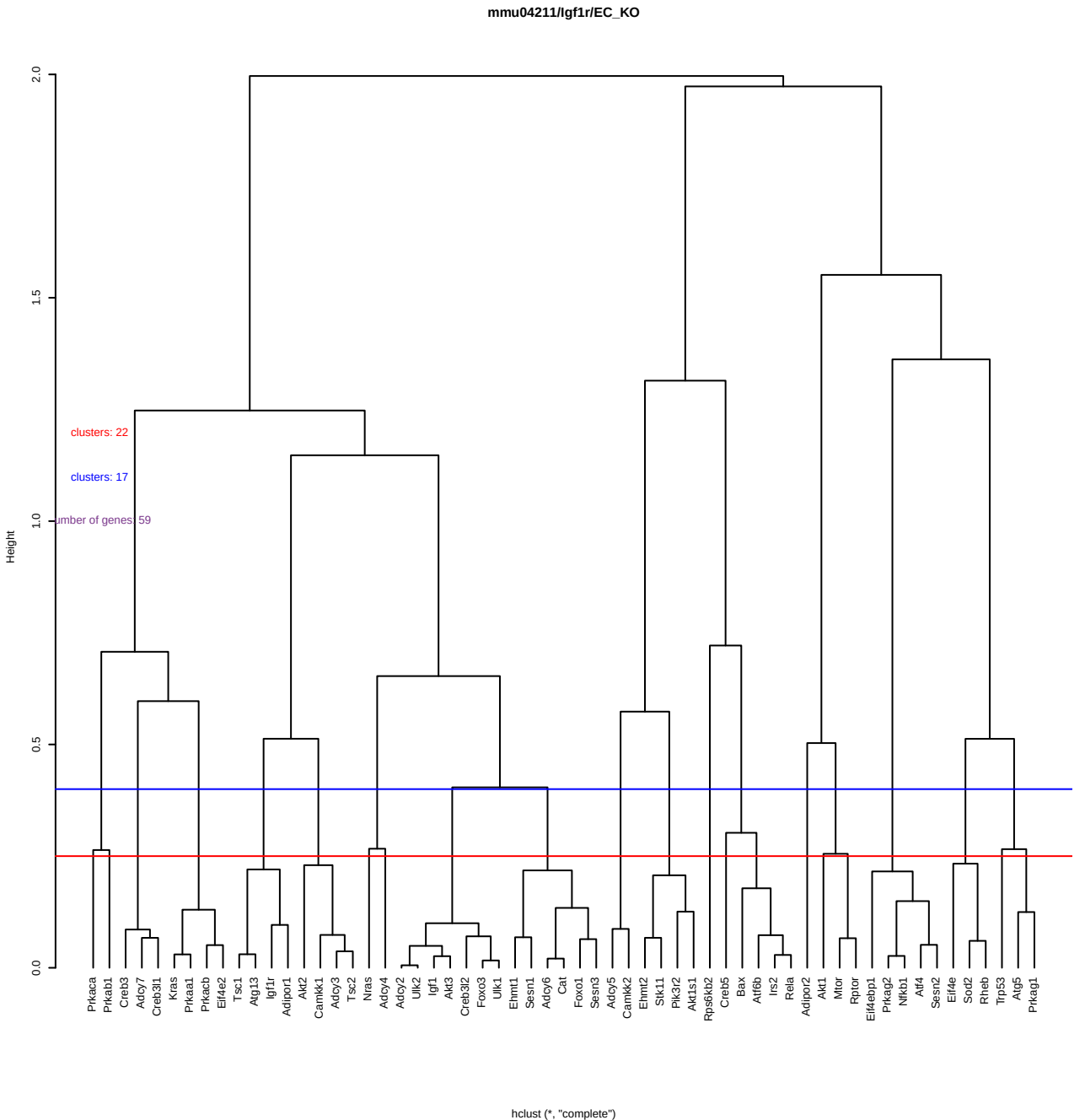
clusters: 33
clusters: 23
umber of genes: 66
Creb3
Adipor2
Akt2
Pik3r2
Atg13
Rps6kb2
Stk11
Rela
Adcy4
Tsc2
Eif4e2
Creb3l1
Prkab1
Akt1
Adcy3
Prkaca
Pik3cd
Rptor
Akt1s1
Mtor
Adcy2
Creb5
Camkk2
Sod2
Prkag1
Ehmt2
Eif4ebp1
Bax
Atf6b
Trp53
Igf1r
Irs2
Adcy5
Prkacb
Adipor1
Tsc1
Sesn3
Adcy6
Creb3l2
Foxo3
Ulk1
Irs1
Igf1
Adcy7
Cat
Sesn1
Pik3r1
Rheb
Camkk1
Foxo1
Prkag2
Kras
Creb1
Agpt1
Atf2
Ulk2
Pik3ca
Akt3
Ehmt1
Nfkb1
Atf4
Rps6kb1
Atg5
Prkaa1
Nras
Eif4e
hclust (*, "complete")


mmu04211/Igf1r/EC_KO
Height
2.0
1.5
1.0
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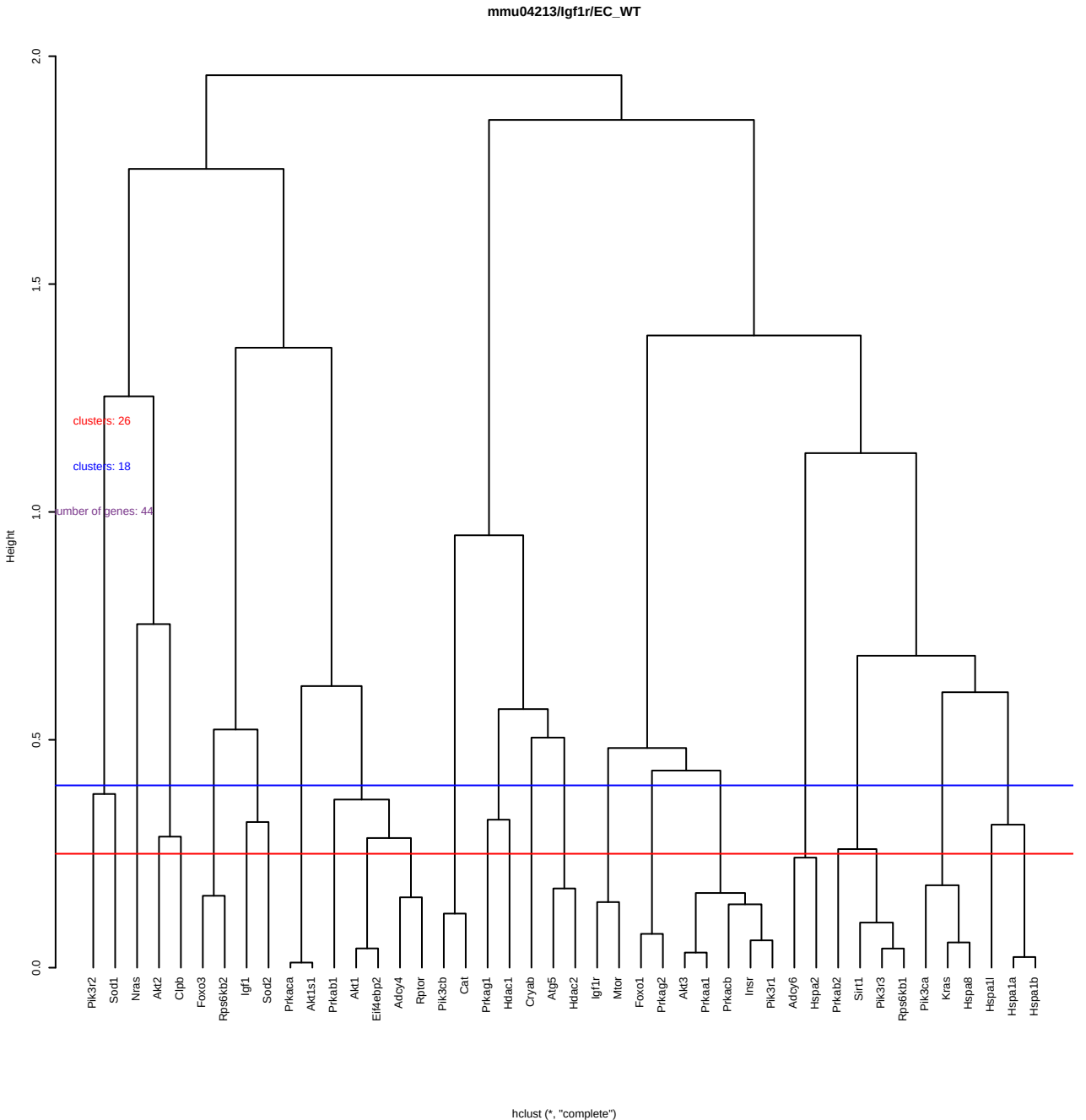
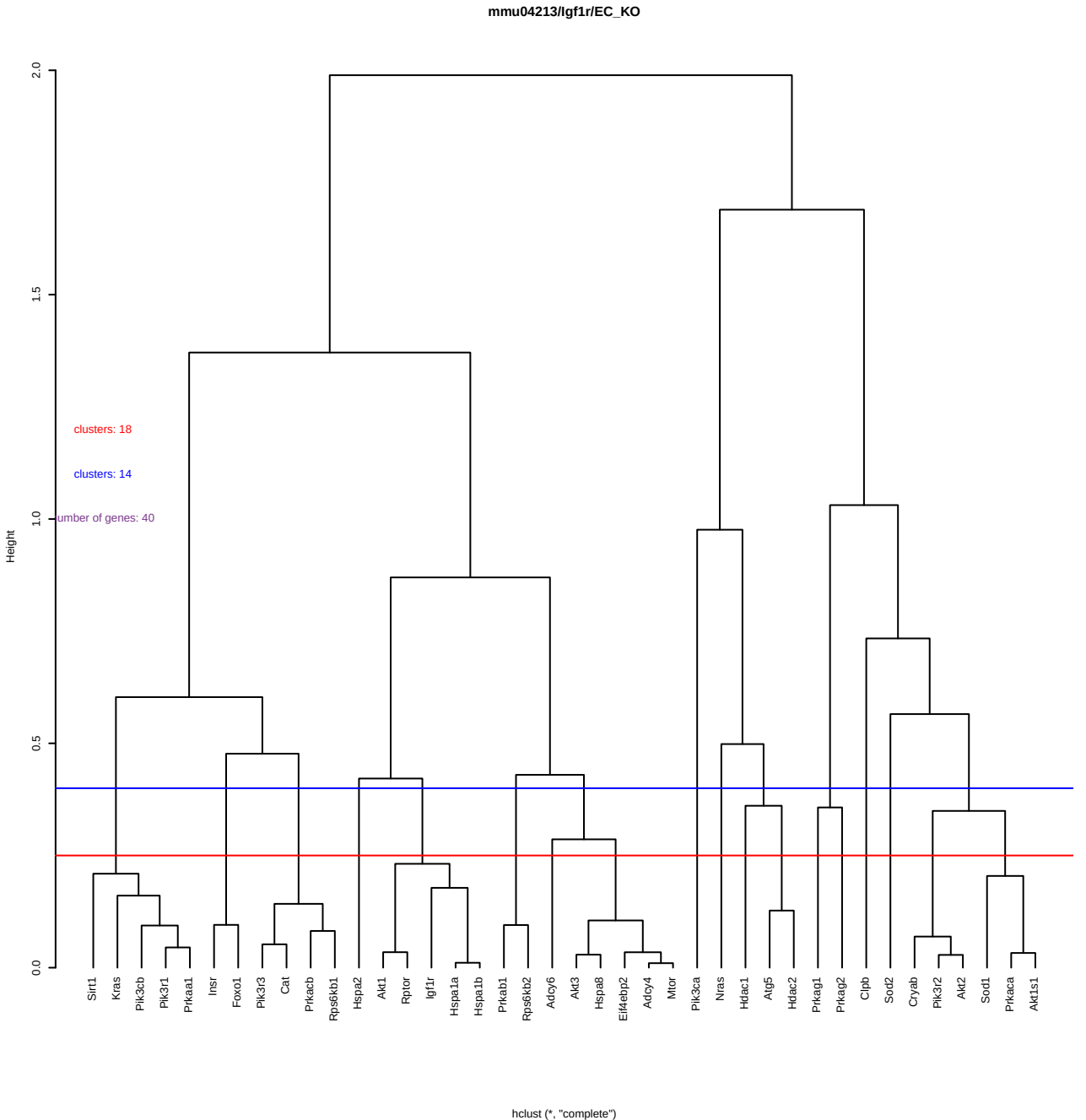
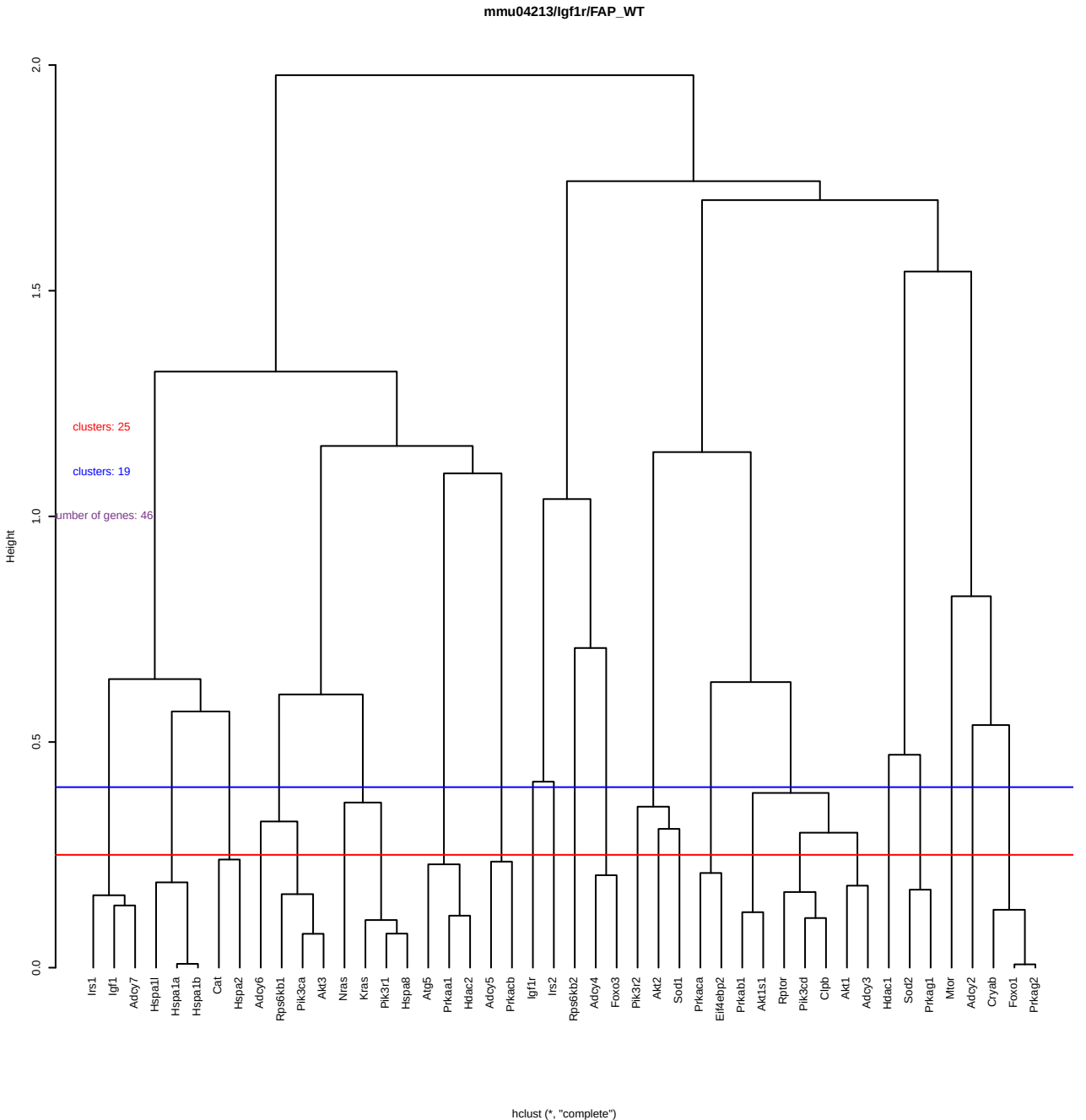
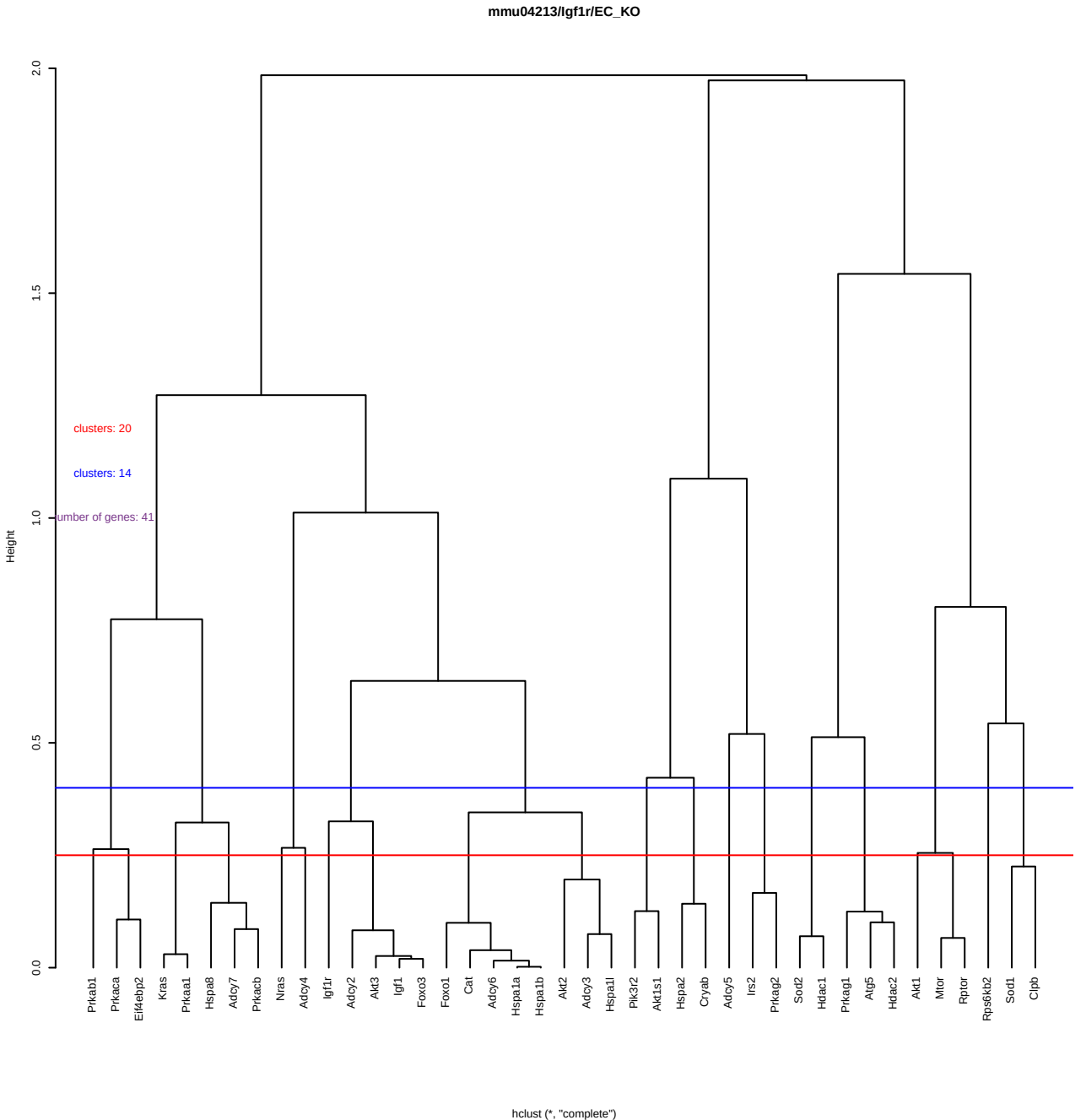
clusters: 22
clusters: 17
umber of genes: 59
Prkaca
Prkab1
Creb3
Adcy7
Creb3l1
Kras
Prkaa1
Prkacb
Eif4e2
Tsc1
Atg13
Igf1r
Adipor1
Akt2
Camkk1
Adcy3
Tsc2
Nras
Adcy4
Adcy2
Ulk2
Igf1
Akt3
Creb3l2
Foxo3
Ulk1
Ehmt1
Sesn1
Adcy6
Cat
Foxo1
Sesn3
Adcy5
Camkk2
Ehmt2
Stk11
Pik3r2
Akt1s1
Rps6kb2
Creb5
Bax
Atf6b
Irs2
Rela
Adipor2
Akt1
Mtor
Rptor
Eif4ebp1
Prkag2
Nfkb1
Atf4
Sesn2
Eif4e
Sod2
Rheb
Trp53
Atg5
Prkag1
hclust (*, "complete")


mmu04213/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 26
clusters: 18
umber of genes: 44
Pik3r2
Sod1
Nras
Akt2
Clpb
Foxo3
Rps6kb2
Igf1
Sod2
Prkaca
Akt1s1
Prkab1
Akt1
Eif4ebp2
Adcy4
Rptor
Pik3cb
Cat
Prkag1
Hdac1
Cryab
Atg5
Hdac2
Igf1r
Mtor
Foxo1
Prkag2
Akt3
Prkaa1
Prkacb
Insr
Pik3r1
Adcy6
Hspa2
Prkab2
Sirt1
Pik3r3
Rps6kb1
Pik3ca
Kras
Hspa8
Hspa1l
Hspa1a
Hspa1b
hclust (*, "complete")


mmu04213/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 18
clusters: 14
umber of genes: 40
Sirt1
Kras
Pik3cb
Pik3r1
Prkaa1
Insr
Foxo1
Pik3r3
Cat
Prkacb
Rps6kb1
Hspa2
Akt1
Rptor
Igf1r
Hspa1a
Hspa1b
Prkab1
Rps6kb2
Adcy6
Akt3
Hspa8
Eif4ebp2
Adcy4
Mtor
Pik3ca
Nras
Hdac1
Atg5
Hdac2
Prkag1
Prkag2
Clpb
Sod2
Cryab
Pik3r2
Akt2
Sod1
Prkaca
Akt1s1
hclust (*, "complete")


mmu04213/Igf1r/FAP_WT
Height
0.0
0.5
1.0
1.5
2.0
clusters: 25
clusters: 19
umber of genes: 46
Irs1
Igf1
Adcy7
Hspa1l
Hspa1a
Hspa1b
Cat
Hspa2
Adcy6
Rps6kb1
Pik3ca
Akt3
Nras
Kras
Pik3r1
Hspa8
Atg5
Prkaa1
Hdac2
Adcy5
Prkacb
Igf1r
Irs2
Rps6kb2
Adcy4
Foxo3
Pik3r2
Akt2
Sod1
Prkaca
Eif4ebp2
Prkab1
Akt1s1
Rptor
Pik3cd
Clpb
Akt1
Adcy3
Hdac1
Sod2
Prkag1
Mtor
Adcy2
Cryab
Foxo1
Prkag2
hclust (*, "complete")


mmu04213/Igf1r/EC_KO
Height
2.0
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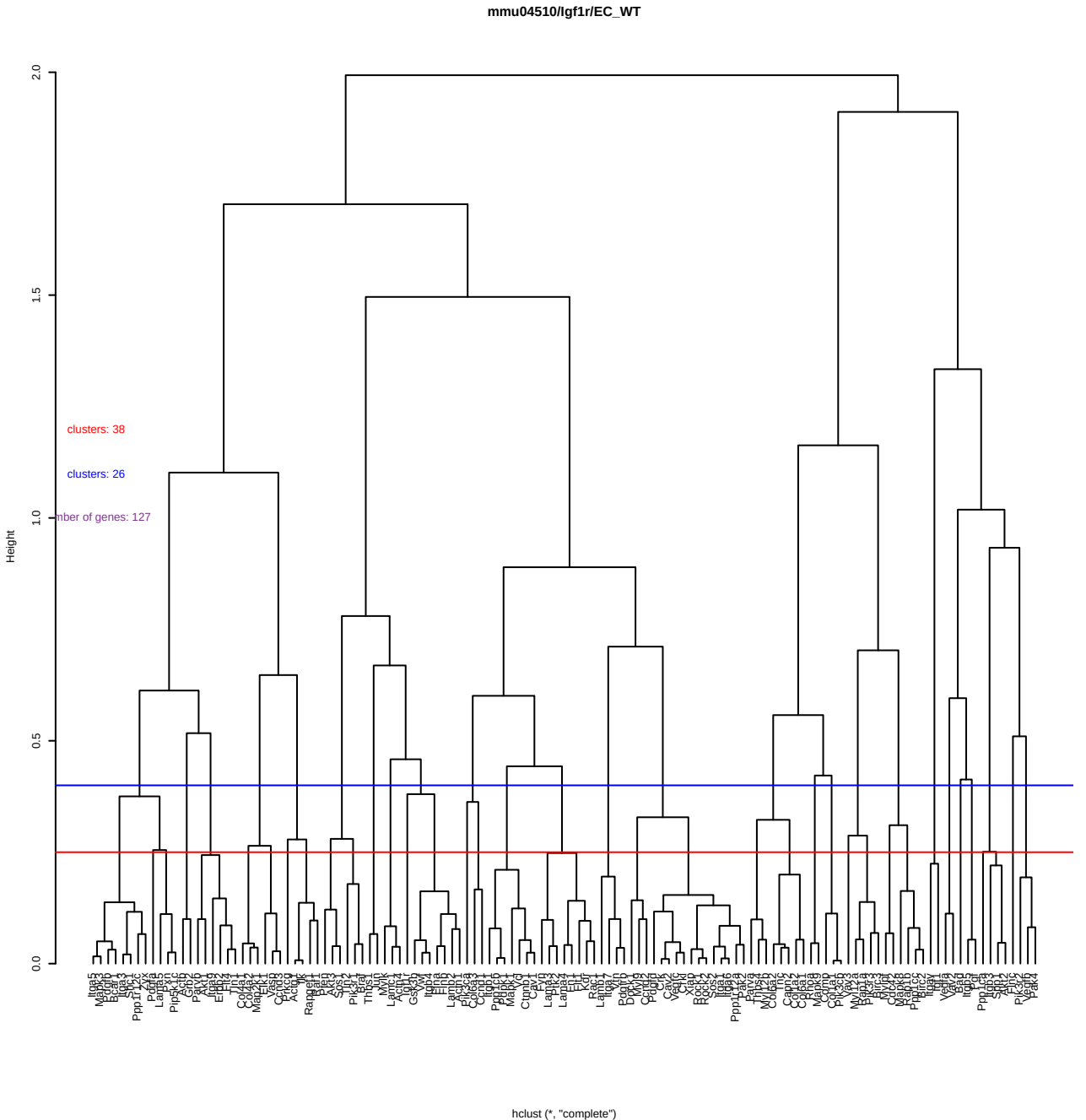
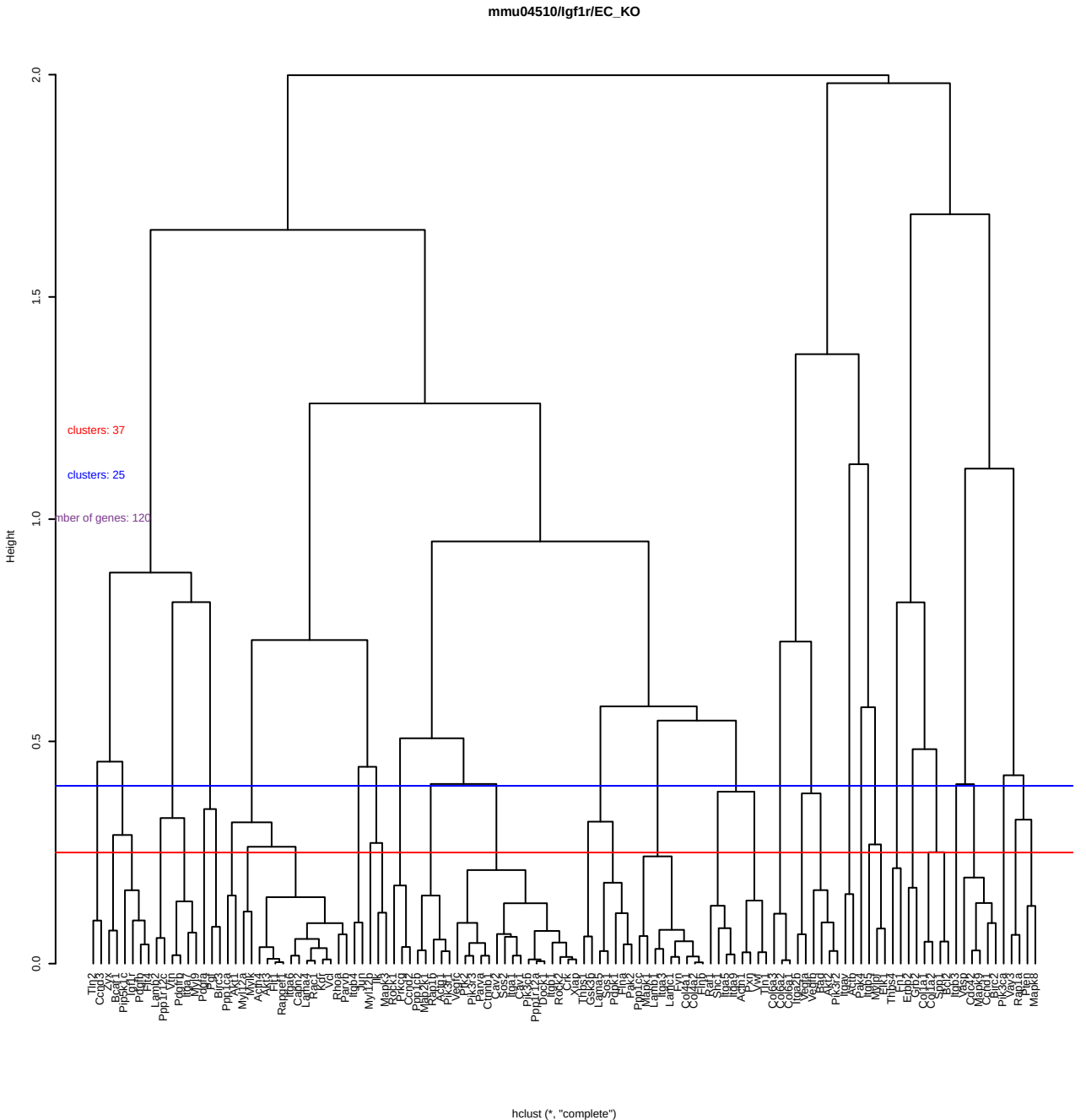
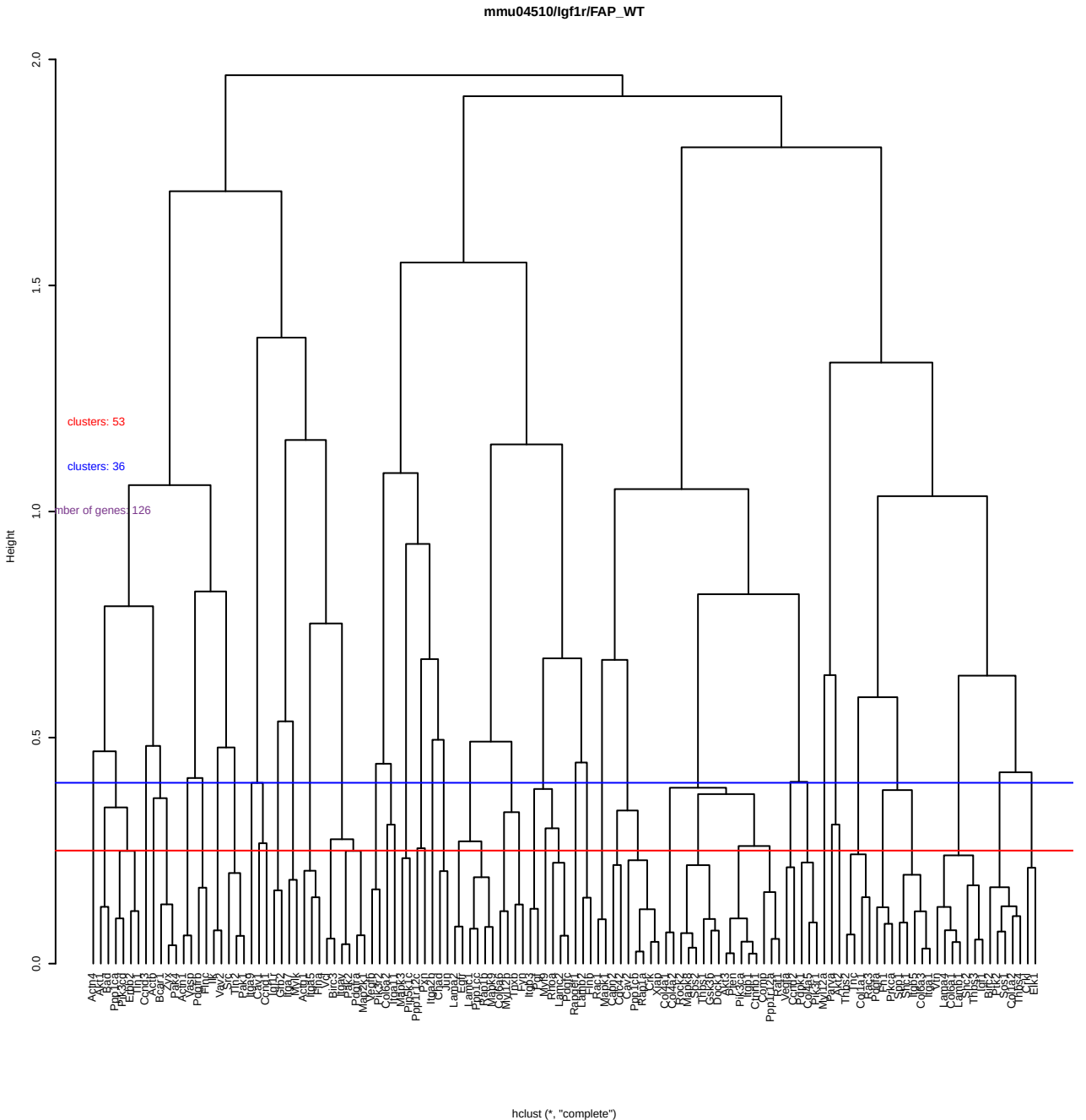
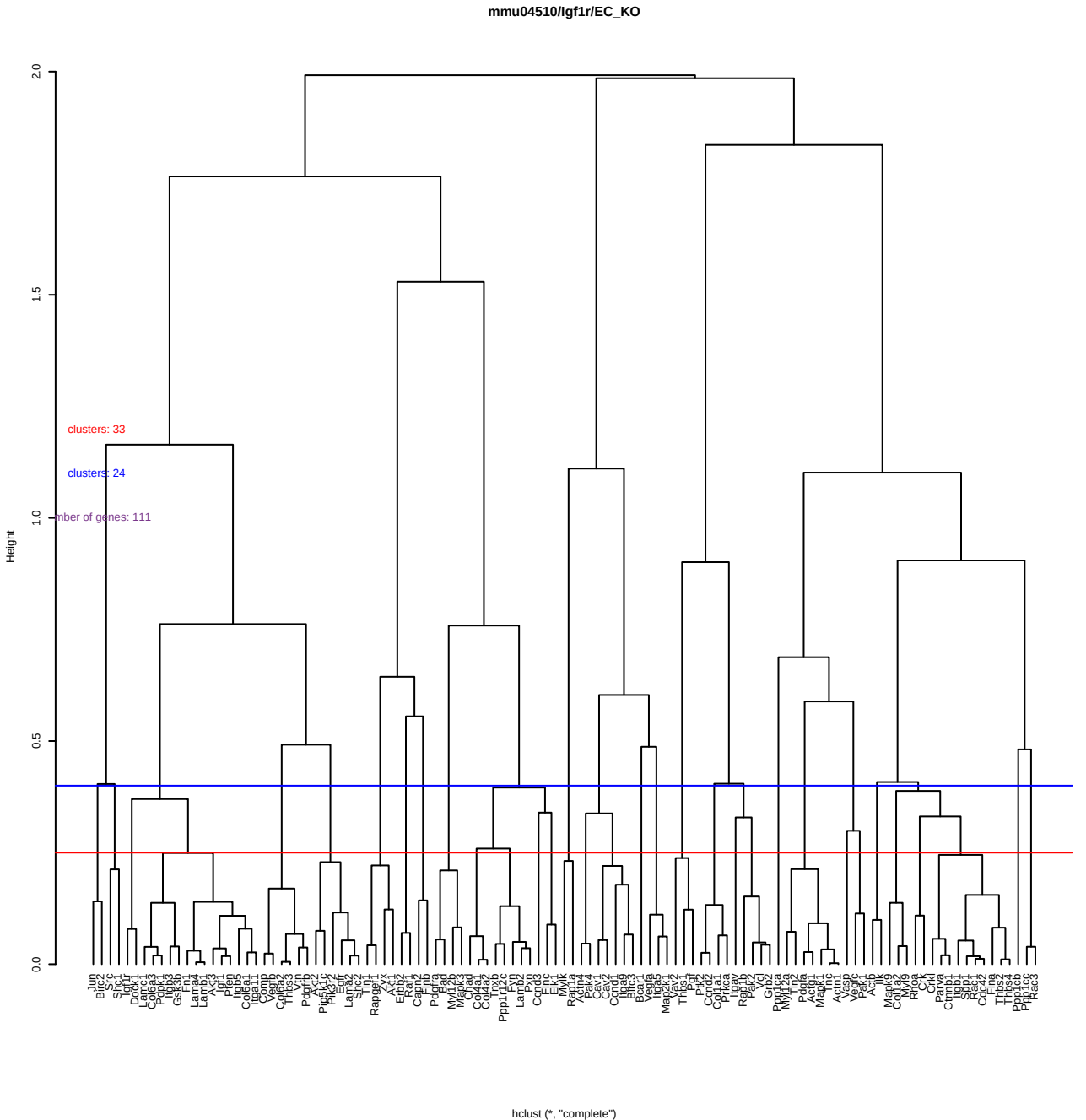
1.0
0.5
0.0
clusters: 20
clusters: 14
umber of genes: 41
Prkab1
Prkaca
Eif4ebp2
Kras
Prkaa1
Hspa8
Adcy7
Prkacb
Nras
Adcy4
Igf1r
Adcy2
Akt3
Igf1
Foxo3
Foxo1
Cat
Adcy6
Hspa1a
Hspa1b
Akt2
Adcy3
Hspa1l
Pik3r2
Akt1s1
Hspa2
Cryab
Adcy5
Irs2
Prkag2
Sod2
Hdac1
Prkag1
Atg5
Hdac2
Akt1
Mtor
Rptor
Rps6kb2
Sod1
Clpb
hclust (*, "complete")


mmu04510/Igf1r/EC_WT
clusters: 38
clusters: 26
nber of genes: 127
Height
0.0
0.5
1.0
1.5
2.0
hclust (*, "complete")


mmu04510/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 37
clusters: 25
nber of genes: 120
hclust (*, "complete")


mmu04510/Igf1r/FAP_WT
clusters: 53
clusters: 36
nber of genes: 126
Height
2.0
1.5
1.0
0.5
0.0
hclust (*, "complete")


mmu04510/Igf1r/EC_KO
Height
2.0
1.5
1.0
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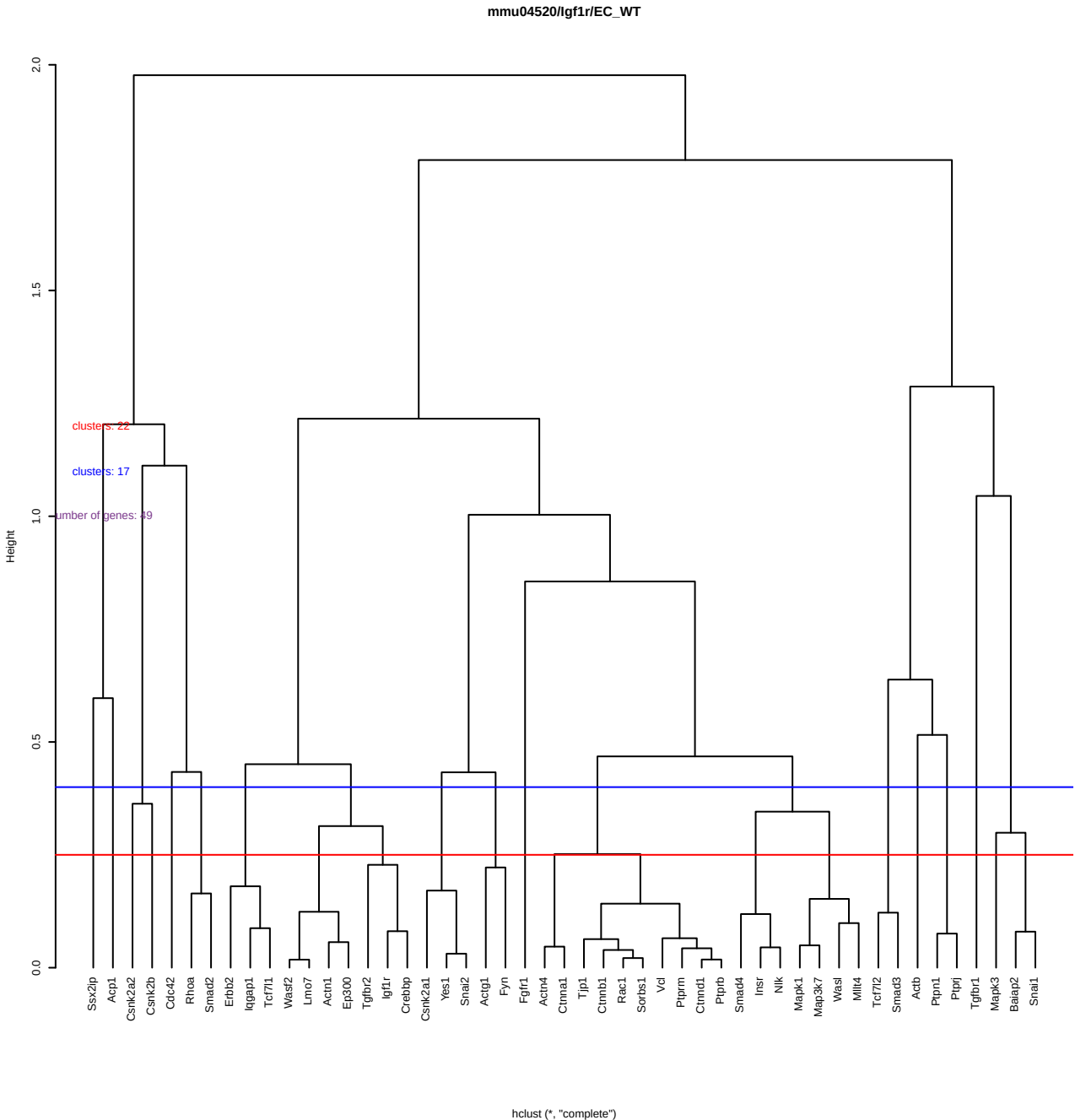
clusters: 33
clusters: 24
nber of genes: 111
Jun
Birc2
Src
Sgk1
Igf1r
Dok1
Lamc1
Cdc42
Pdpk1
Itgb3
Gsk3b
Fn1
Lama4
Lamb1
Akt3
Jak1
Pfn1
Itgb5
Cdc42
Itga11
Comp
Vegfa
Cxcl12
Thbs3
Vtn
Pdgfrb
Akt2
Pik3r1
Pik3r2
Lama5
Shc2
Tln1
Rapgef1
Fyx
Akt1
Ezr
Rac1
Capn2
Prcp
Itgb
Bad
Myl12b
Mmp2
Cfl1
Col4a1
Col4a2
Tln2
Ppp1r12c
Fyn
Lamb2
Lamc2
Cnn3
Fn1
Elnc
Mylk
Rap1a
Actn4
Pdpn
Cav1
Cav2
Cnn1
Cnn2
Birc3
Bcar1
Vegfa
Itga9
Map2k1
Tln1
Cav2
Thbs1
Pgf
Pik3r2
Cdh2
Prkca
Itgav
Rac1
Pak2
Vcl
Gnb2
Ppp1r12a
Myl12a
Tln2
Pdpn
Actn1
Mapk1
Inc
Actn4
Vasp
Vegfc
Pak1
Actn1
Ilk
Mapk9
Cxcl12
Myl6
Rhoa
Crk
Crk1
Parva
Ctnnb1
Sgk1
Tln1
Cdc42
Elnc
Thbs2
Thbs4
Ppp1cb
Ppp1cc
Rac3
hclust (*, "complete")


mmu04520/Igf1r/EC_WT
Height
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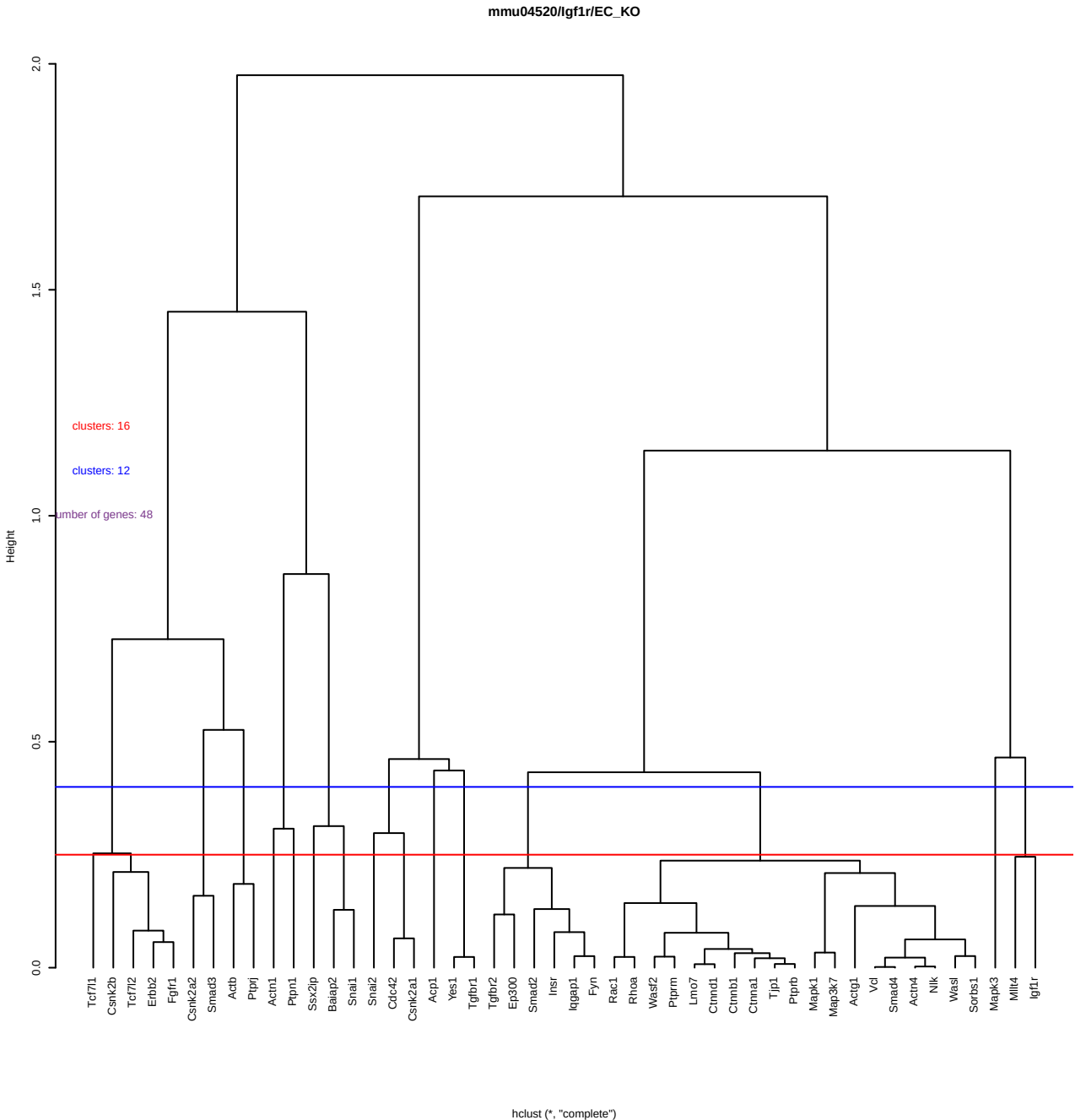
1.0
1.5
2.0
clusters: 22
clusters: 17
umber of genes: 49
Ssx2ip
Acp1
Csnk2a2
Csnk2b
Cdc42
Rhoa
Smad2
Erbb2
Iqgap1
Tcf7l1
Wasf2
Lmo7
Actn1
Ep300
Tgfbr2
Igf1r
Crebbp
Csnk2a1
Yes1
Snai2
Actg1
Fyn
Fgfr1
Actn4
Ctnna1
Tjp1
Ctnnb1
Rac1
Sorbs1
Vd
Ptprm
Ctnnd1
Ptprb
Smad4
Insr
Nlk
Mapk1
Map3k7
Wasl
Mll4
Tcf7l2
Smad3
Actb
Ptpn1
Ptprj
Tgfbr1
Mapk3
Baiap2
Snai1
hclust (*, "complete")


mmu04520/Igf1r/EC_KO
Height
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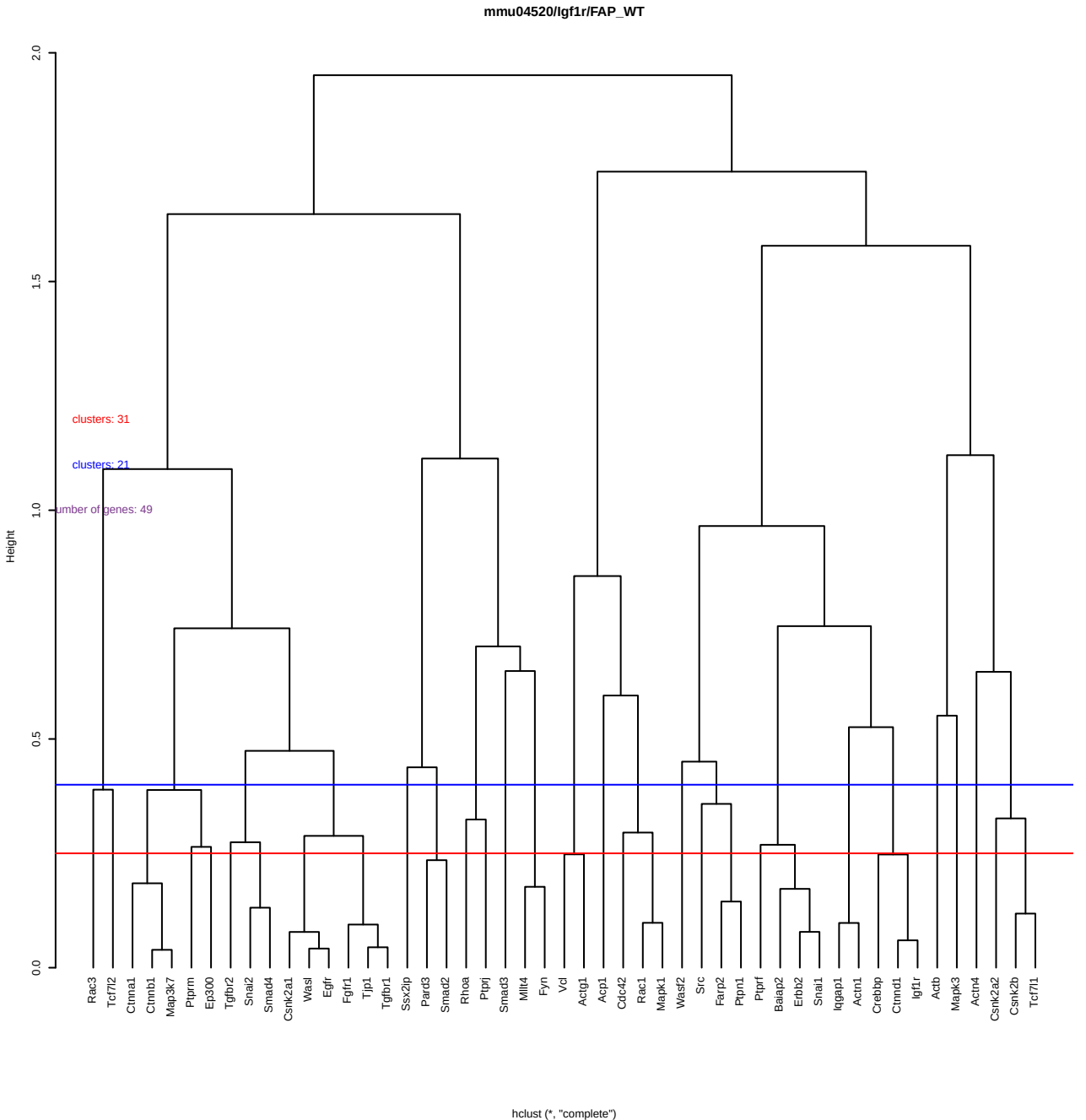
clusters: 16
clusters: 12
umber of genes: 48
Tcf7l1
Csnk2b
Tcf7l2
Erbb2
Fgfr1
Csnk2a2
Smad3
Actb
Ptprj
Actn1
Ptpn1
Ssx2ip
Baiap2
Snai1
Snai2
Cdc42
Csnk2a1
Acp1
Yes1
Tgfbr1
Tgfbr2
Ep300
Smad2
Insr
Iqgap1
Fyn
Rac1
Rhoa
Wasf2
Ptprm
Lmo7
Ctnnd1
Ctnnb1
Ctnna1
Tjp1
Ptprb
Mapk1
Map3k7
Actg1
Vcl
Smad4
Actn4
Nlk
Wasl
Sorbs1
Mapk3
Mllt4
Igf1r
hclust (*, "complete")


mmu04520/Igf1r/FAP_WT
Height
0.0
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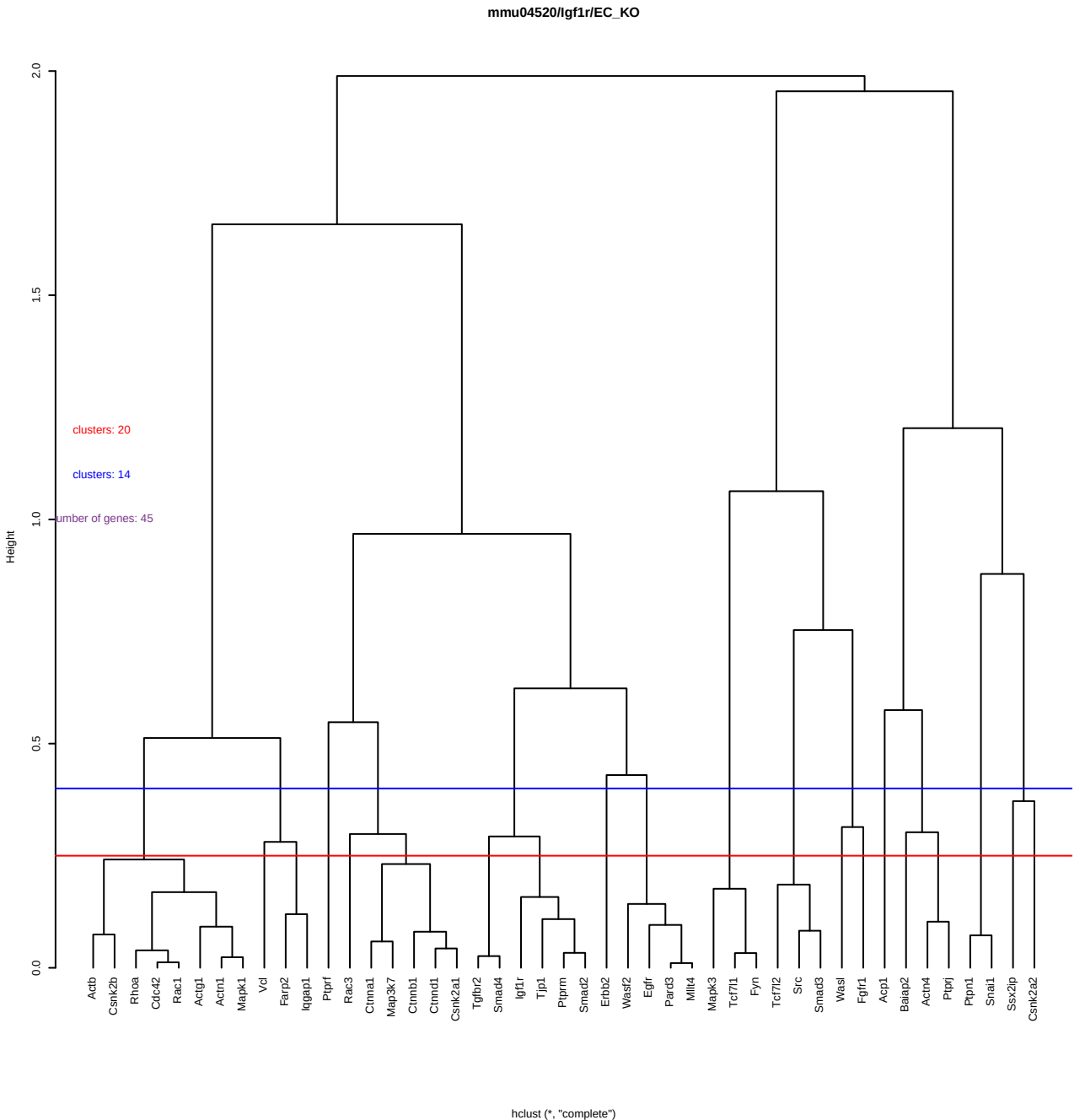
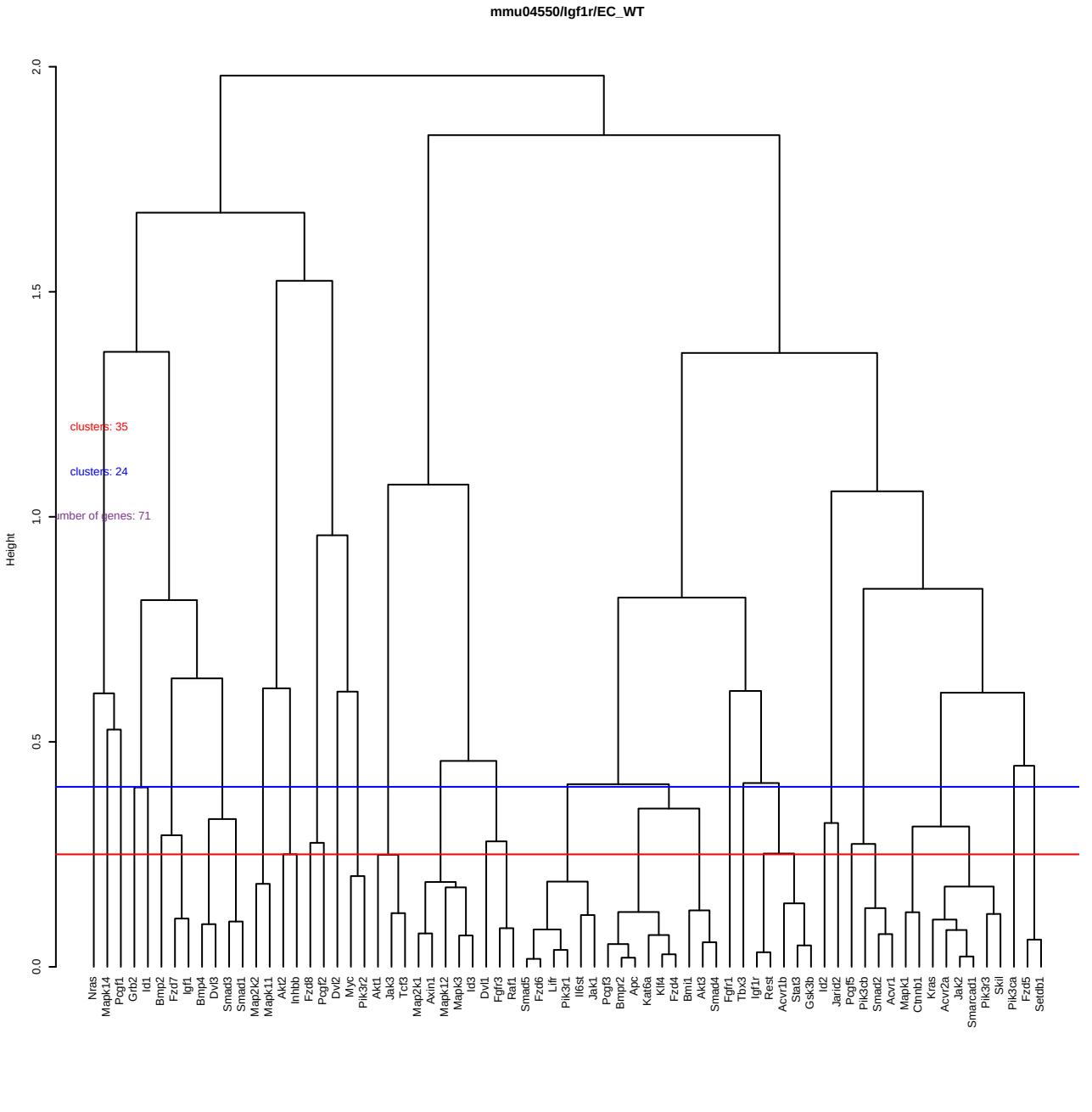
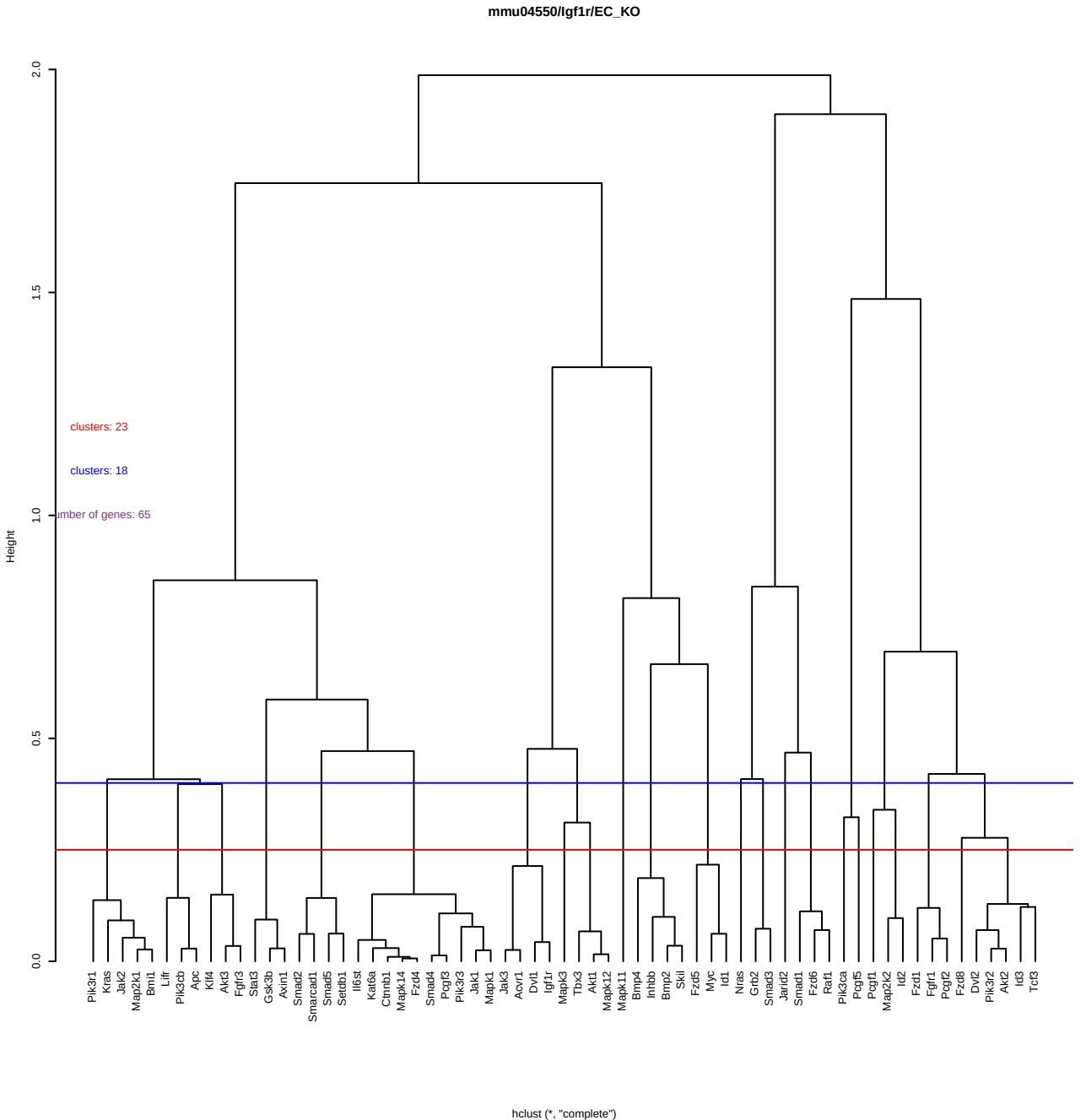
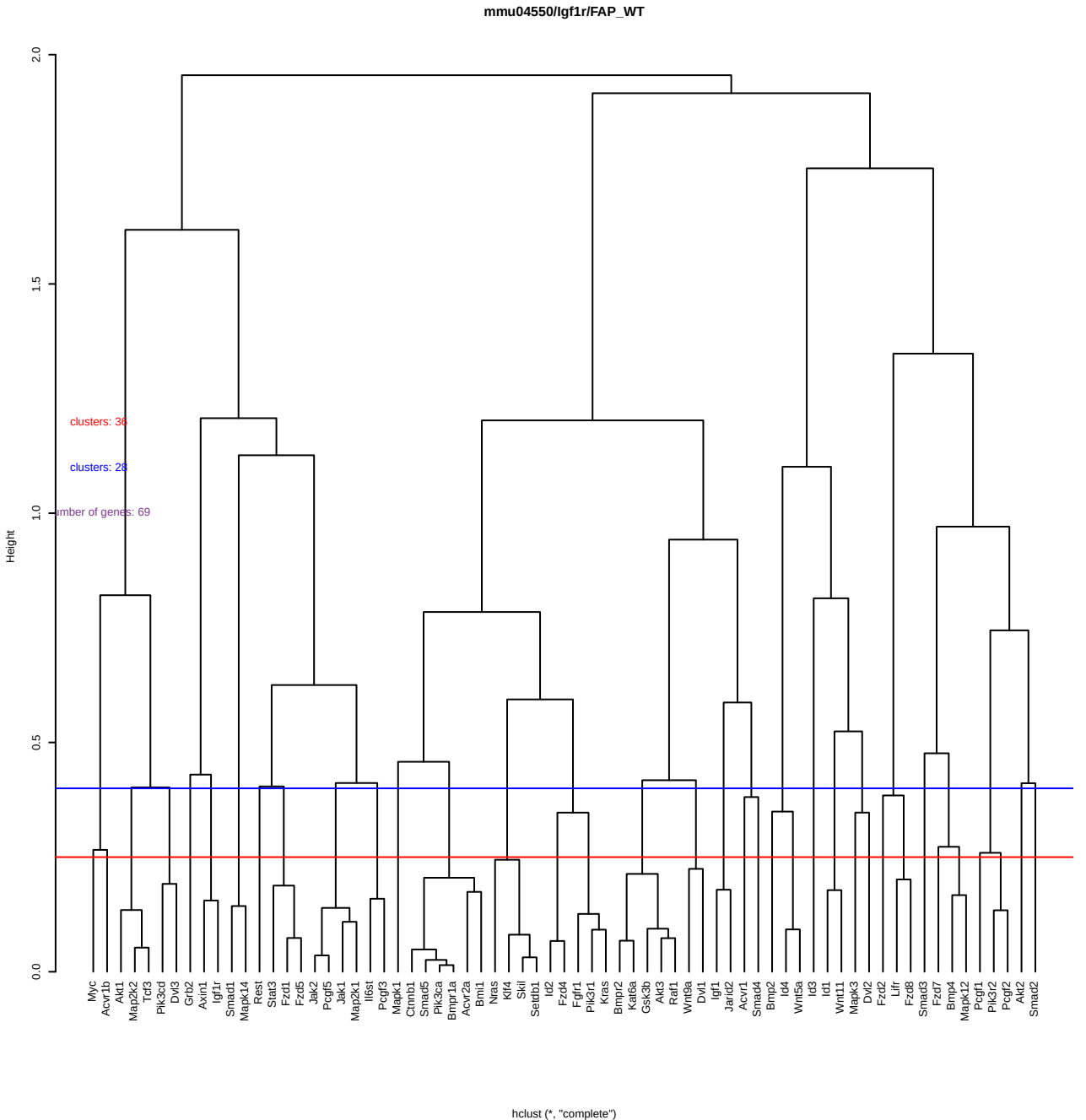
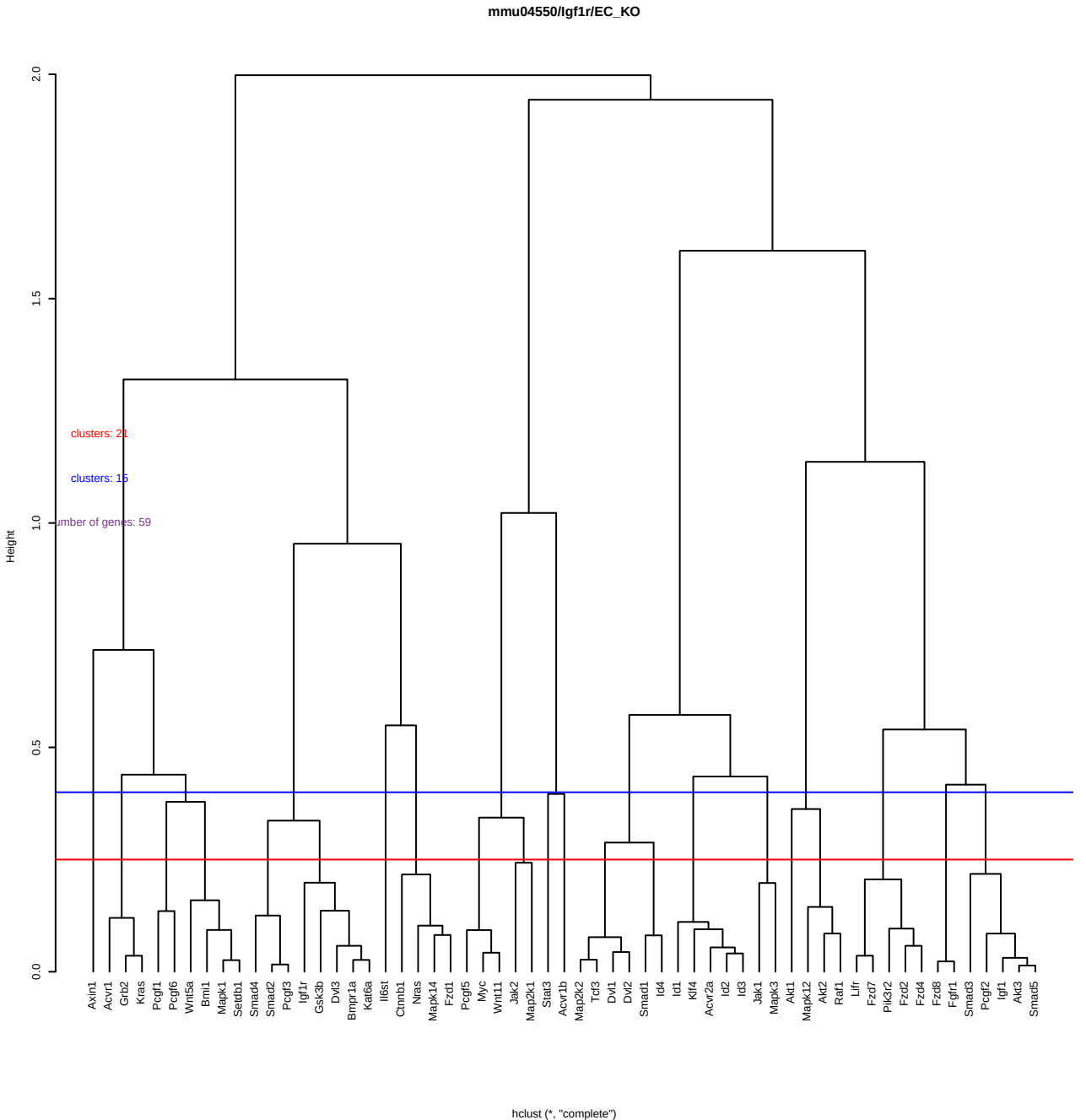
1.0
1.5
2.0
clusters: 31
clusters: 21
umber of genes: 49
Rac3
Tcf7l2
Ctnna1
Ctnnb1
Map3k7
Ptprm
Ep300
Tgfbr2
Snai2
Smad4
Csnk2a1
Wasl
Egfr
Fgfr1
Tjp1
Tgfbr1
Ssx2ip
Pard3
Smad2
Rhoa
Ptprj
Smad3
Mllt4
Fyn
Vcl
Actg1
Acp1
Cdc42
Rac1
Mapk1
Wasf2
Src
Farp2
Ptpn1
Ptprf
Baiap2
Erbb2
Snai1
Iqgap1
Actn1
Crebbp
Ctnnd1
Igf1r
Actb
Mapk3
Actn4
Csnk2a2
Csnk2b
Tcf7l1
hclust (*, "complete")

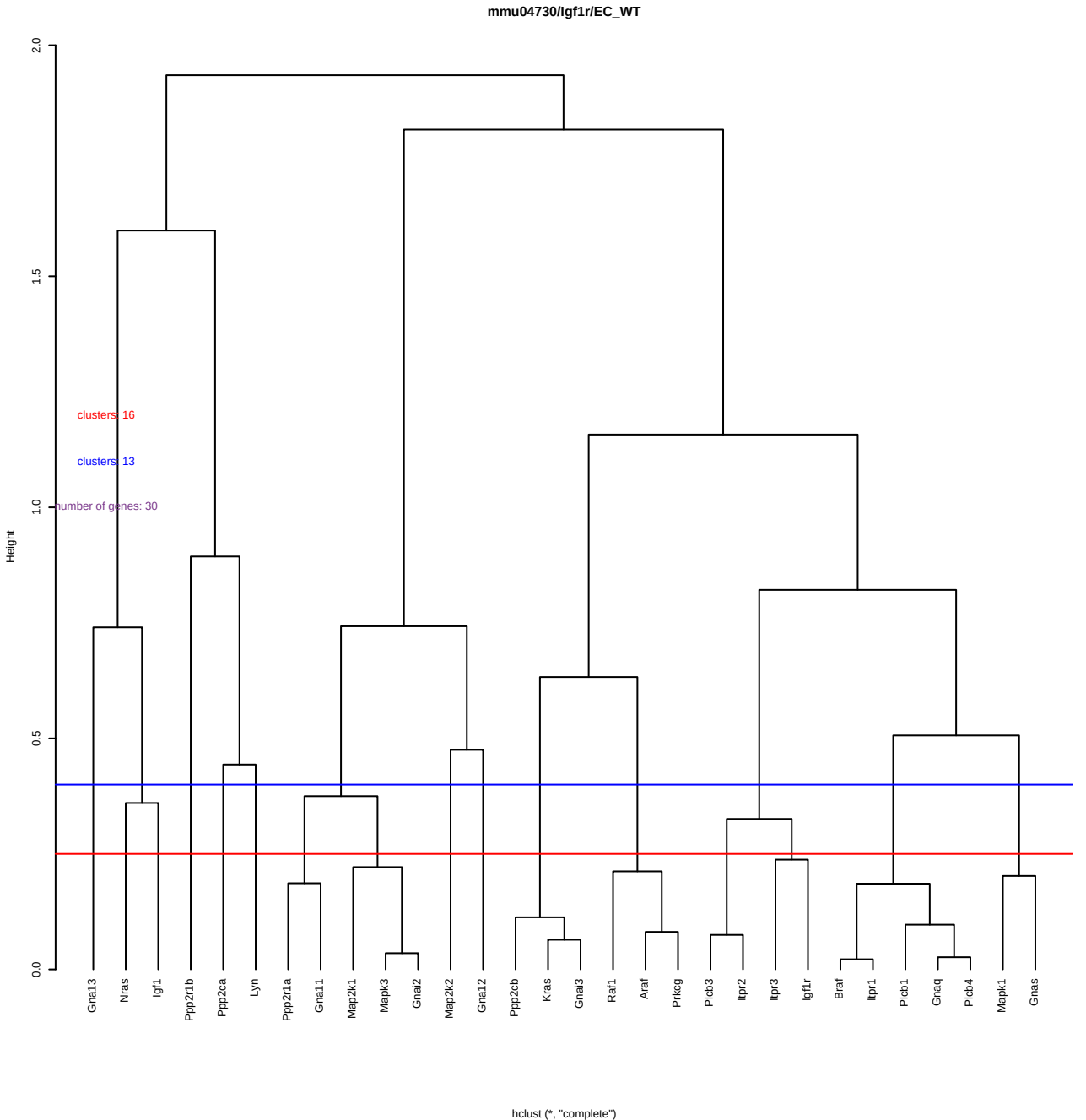

mmu04520/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 20
clusters: 14
umber of genes: 45
Actb
Csnk2b
Rhoa
Cdc42
Rac1
Actg1
Actn1
Mapk1
Vcl
Farp2
Iqgap1
Ptprf
Rac3
Ctnna1
Map3k7
Ctnnb1
Ctnnd1
Csnk2a1
Tgfbr2
Smad4
Igf1r
Tjp1
Ptprm
Smad2
Erbb2
Wasf2
Egfr
Pard3
Mllt4
Mapk3
Tcf7l1
Fyn
Tcf7l2
Src
Smad3
Wasl
Fgfr1
Acp1
Baiap2
Actn4
Ptprj
Ptpn1
Snai1
Ssx2ip
Csnk2a2
hclust (*, "complete")

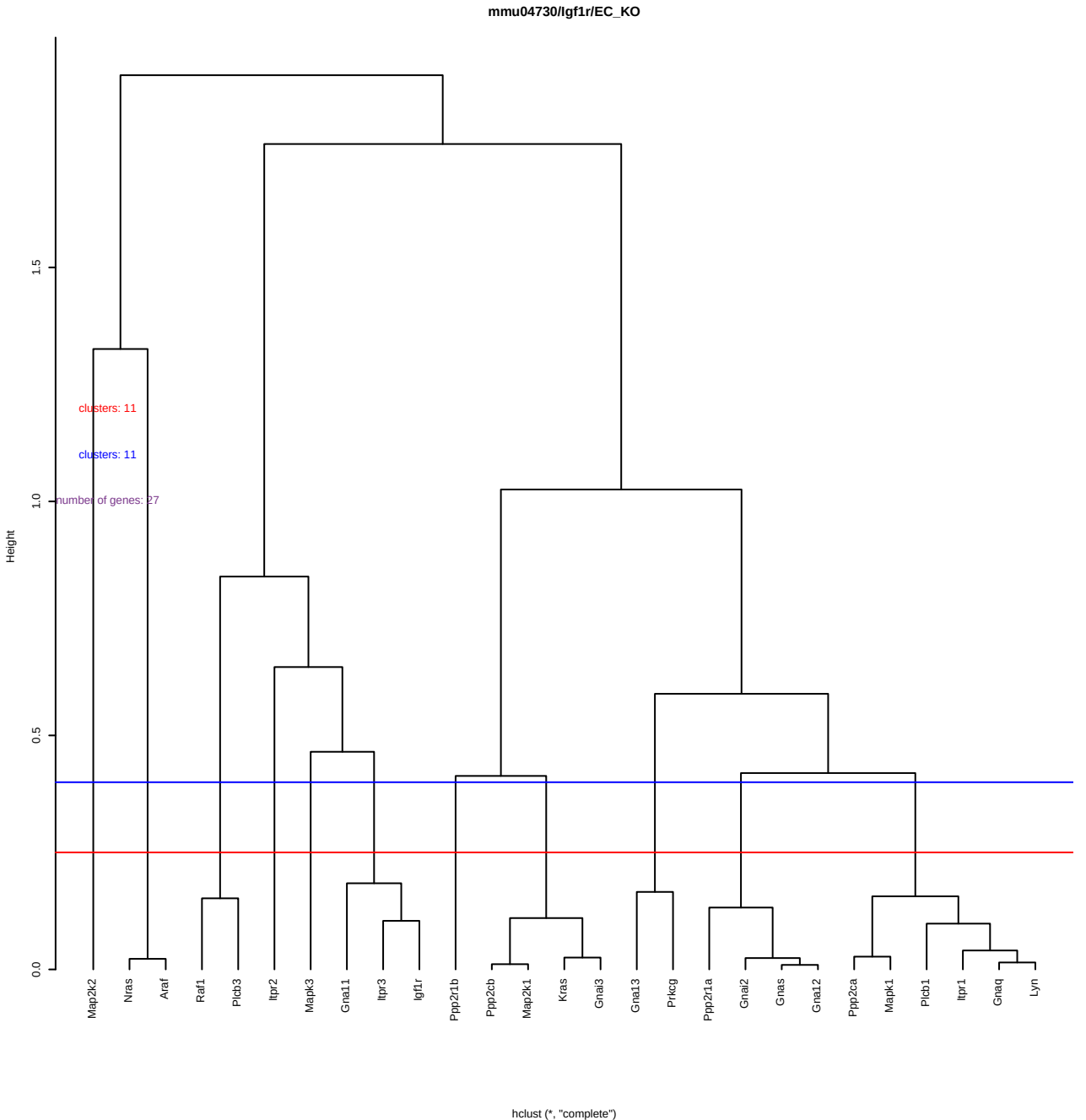

mmu04550/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 35
clusters: 24
mber of genes: 71
Nras
Mapk14
Pcgf1
Grb2
Id1
Bmp2
Fzd7
Igf1
Bmp4
Dvl3
Smad3
Smad1
Map2k2
Mapk11
Akt2
Inhbb
Fzd8
Pcgf2
Dvl2
Myc
Pik3r2
Akt1
Jak3
Tcf3
Map2k1
Axin1
Mapk12
Mapk3
Id3
Dvl1
Fgfr3
Raf1
Smad5
Fzd6
Lifr
Pik3r1
Il6st
Jak1
Pcgf3
Bmpr2
Apc
Kat6a
Klf4
Fzd4
Bmi1
Akt3
Smad4
Fgfr1
Tbx3
Igf1r
Rest
Acvr1b
Stat3
Gsk3b
Id2
Jarid2
Pcgf5
Pik3cb
Smad2
Acvr1
Mapk1
Ctnnb1
Kras
Acvr2a
Jak2
Smarcad1
Pik3r3
Skil
Pik3ca
Fzd5
Setdb1
hclust (*, "complete")

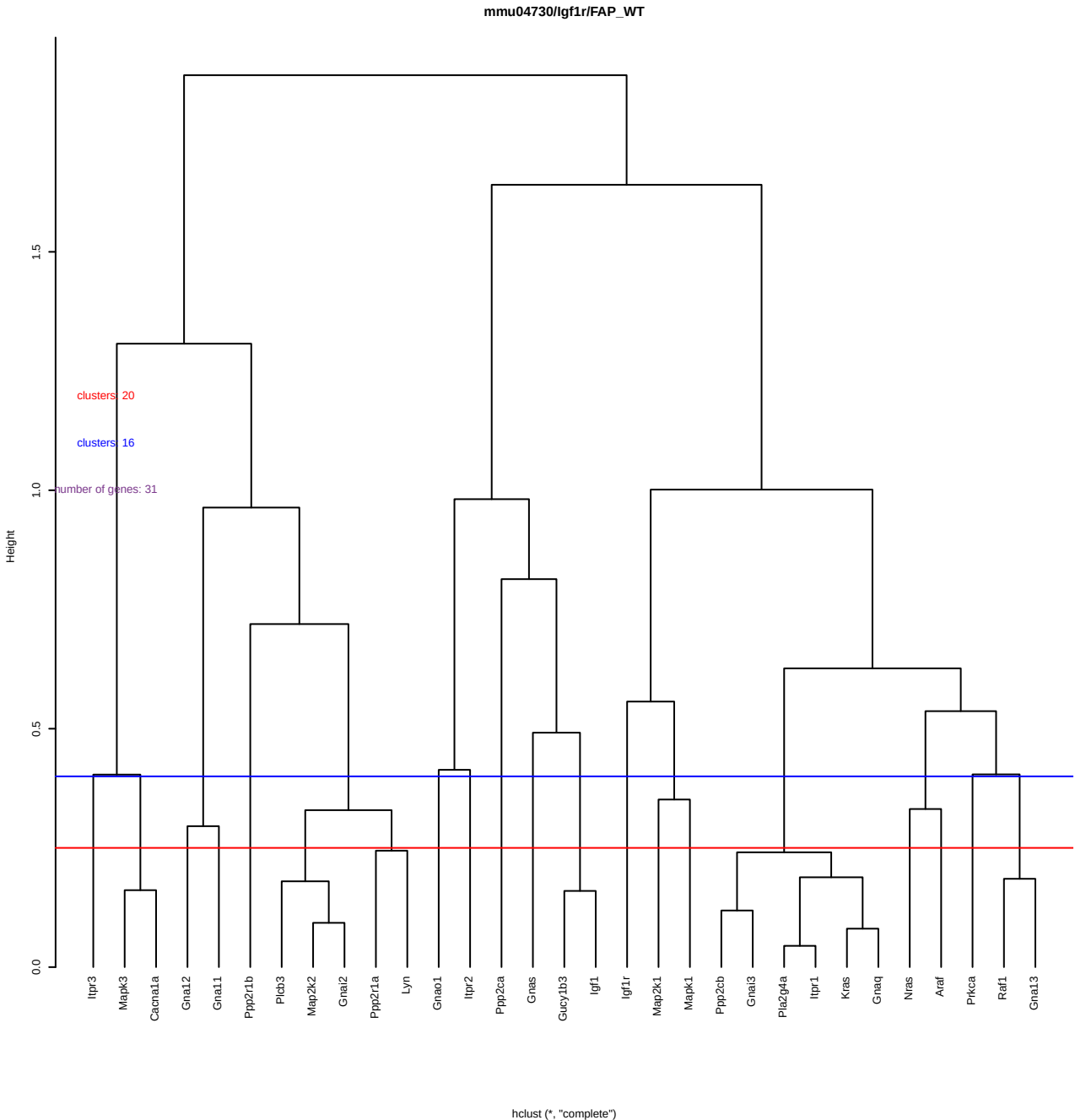

mmu04550/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 23
clusters: 18
umber of genes: 65
Pik3r1
Kras
Jak2
Map2k1
Bmi1
Lifr
Pik3cb
Apc
Klf4
Akt3
Fgfr3
Stat3
Gsk3b
Axin1
Smad2
Smarcad1
Smad5
Setdb1
Il6st
Kat6a
Ctnnb1
Mapk14
Fzd4
Smad4
Pcgf3
Pik3r3
Jak1
Mapk1
Jak3
Acvr1
Dvl1
Igf1r
Mapk3
Tbx3
Akt1
Mapk12
Mapk11
Bmp4
Inhbb
Bmp2
Skil
Fzd5
Myc
Id1
Nras
Grb2
Smad3
Jarid2
Smad1
Fzd6
Raf1
Pik3ca
Pcgf5
Pcgf1
Map2k2
Id2
Fzd1
Fgfr1
Pcgf2
Fzd8
Dvl2
Pik3r2
Akt2
Id3
Tcf3
hclust (*, "complete")

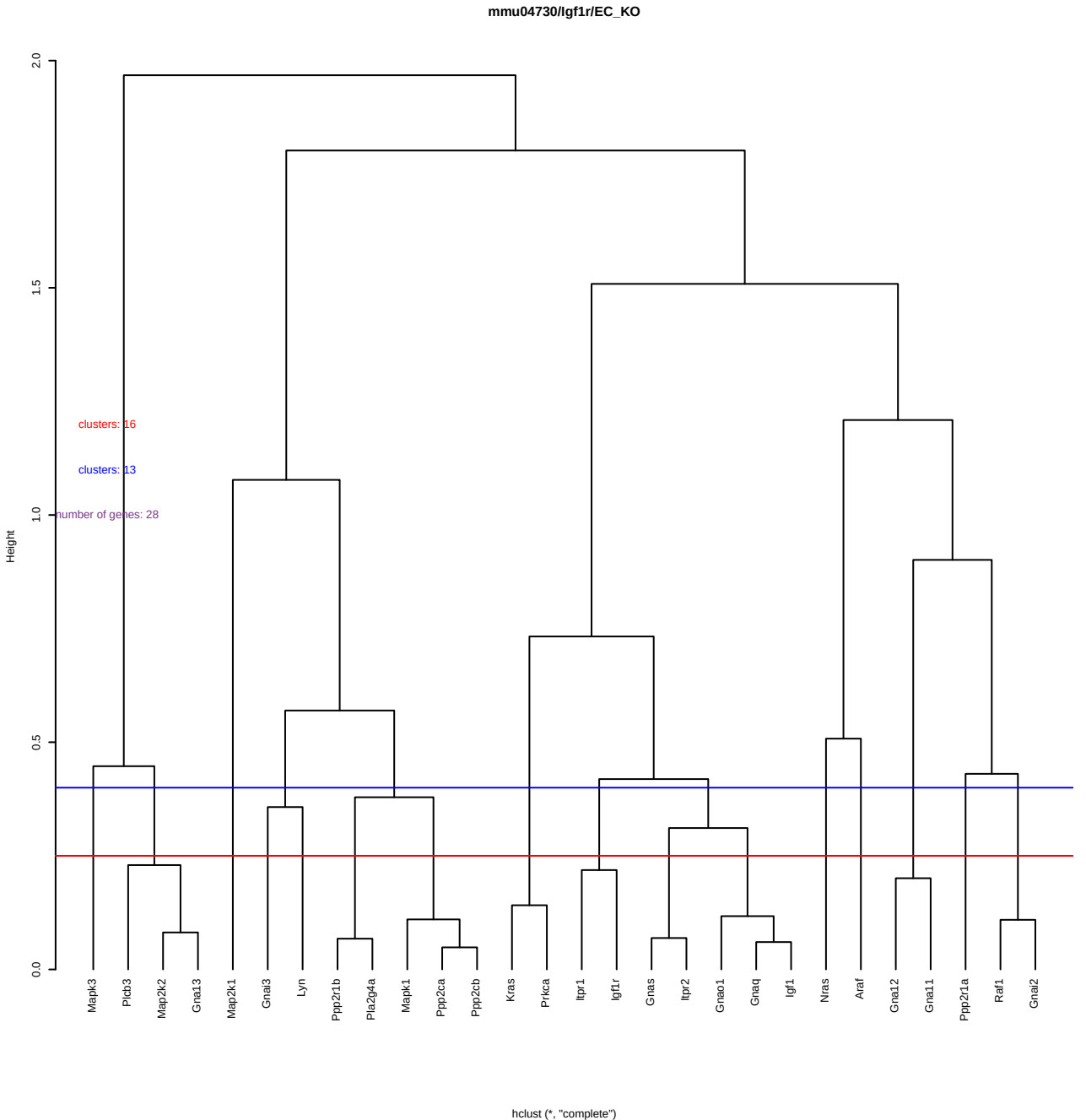

mmu04550/Igf1r/FAP_WT
Height
0.0
0.5
1.0
1.5
2.0
clusters: 36
clusters: 28
mber of genes: 69
Myc
Acvr1b
Akt1
Map2k2
Tcf3
Pik3cd
Dvl3
Grb2
Axin1
Igf1r
Smad1
Mapk14
Rest
Stat3
Fzd1
Fzd5
Jak2
Pcgf5
Jak1
Map2k1
Il6st
Pcgf3
Mapk1
Ctnnb1
Smad5
Pik3ca
Bmpr1a
Acvr2a
Bmi1
Nras
Klf4
Skil
Setdb1
Id2
Fzd4
Fgfr1
Pik3r1
Kras
Bmpr2
Kat6a
Gsk3b
Akt3
Raf1
Wnt9a
Dvl1
Igf1
Jarid2
Acvr1
Smad4
Bmp2
Id4
Wnt5a
Id3
Id1
Wnt11
Mapk3
Dvl2
Fzd2
Lifr
Fzd8
Smad3
Fzd7
Bmp4
Mapk12
Pcgf1
Pik3r2
Pcgf2
Akt2
Smad2
hclust (*, "complete")

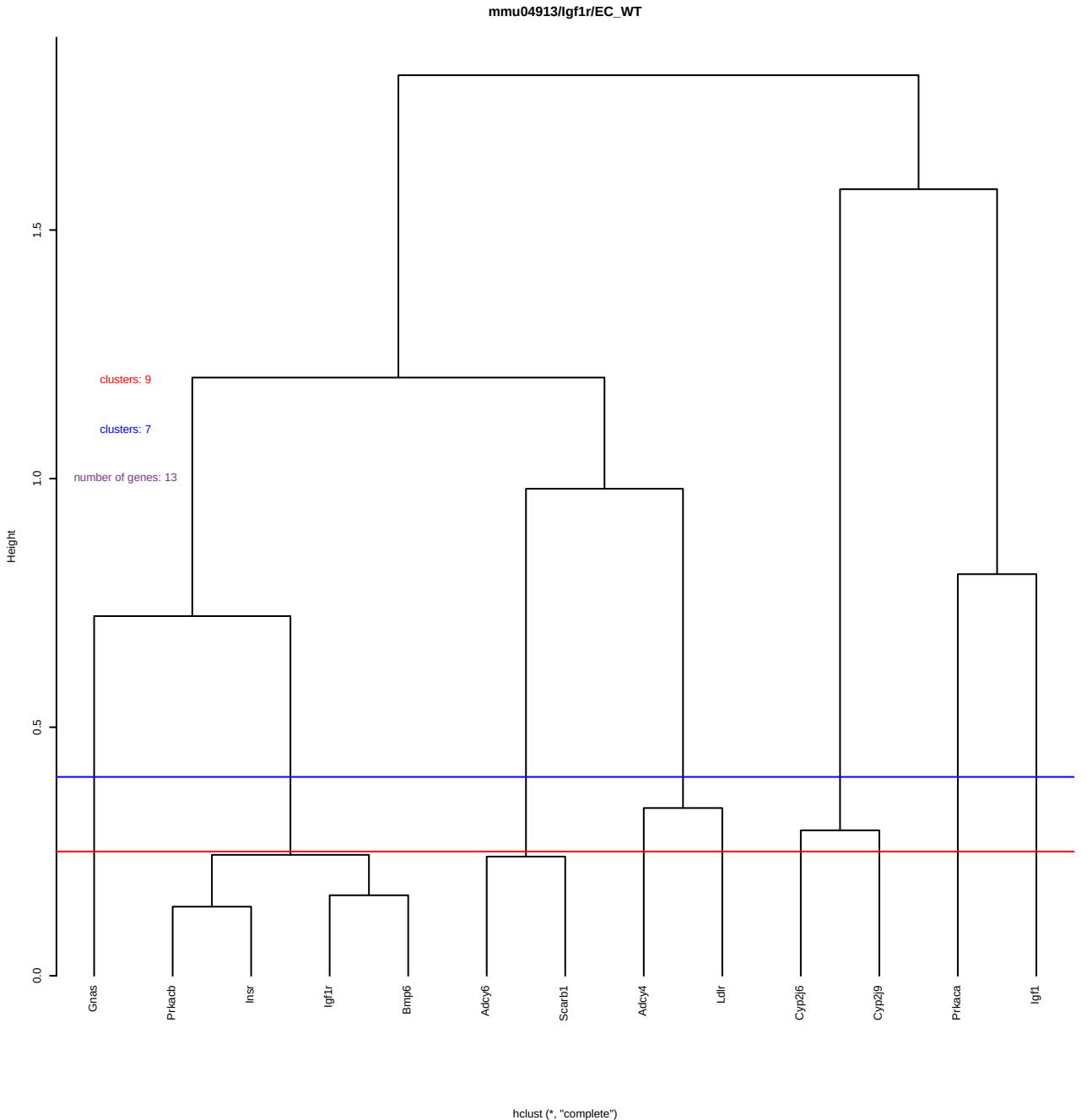

mmu04550/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 21
clusters: 15
umber of genes: 59
Axin1
Acvr1
Grb2
Kras
Pcgf1
Pcgf6
Wnt5a
Bmi1
Mapk1
Setdb1
Smad4
Smad2
Pcgf3
Igf1r
Gsk3b
Dvl3
Bmpr1a
Kat6a
Il6st
Ctnnb1
Nras
Mapk14
Fzd1
Pcgf5
Myc
Wnt11
Jak2
Map2k1
Stat3
Acvr1b
Map2k2
Tcf3
Dvl1
Dvl2
Smad1
Id4
Id1
Klf4
Acvr2a
Id2
Id3
Jak1
Mapk3
Akt1
Mapk12
Akt2
Raf1
Lifr
Fzd7
Pik3r2
Fzd2
Fzd4
Fzd8
Fgfr1
Smad3
Pcgf2
Igf1
Akt3
Smad5
hclust (*, "complete")

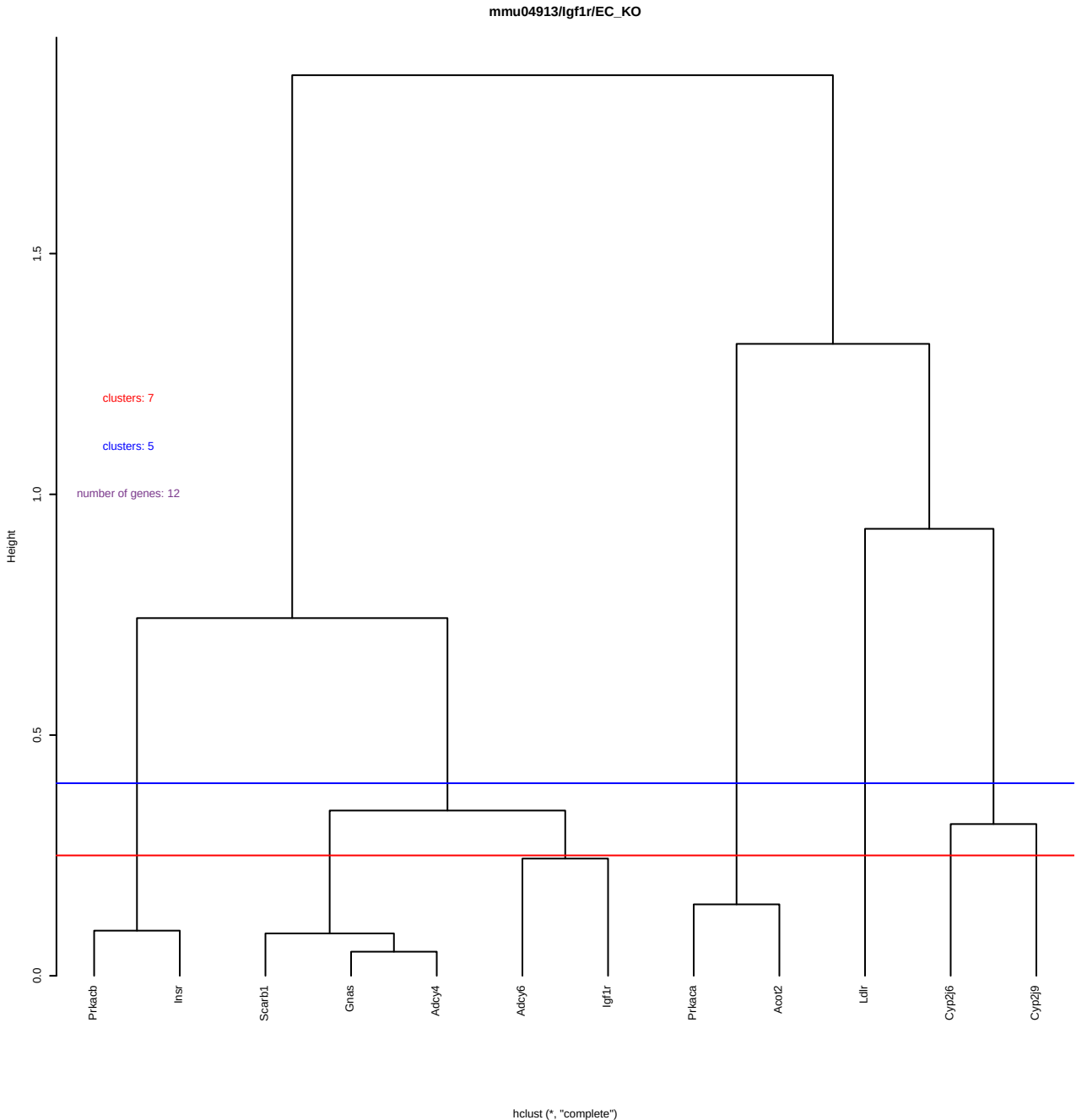

mmu04730/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 16
clusters: 13
number of genes: 30
Gna13
Nras
Igf1
Ppp2r1b
Ppp2ca
Lyn
Ppp2r1a
Gna11
Map2k1
Mapk3
Gnai2
Map2k2
Gna12
Ppp2cb
Kras
Gnai3
Raf1
Araf
Prkcg
Plcb3
Itpr2
Itpr3
Igf1r
Braf
Itpr1
Plcb1
Gnaq
Plcb4
Mapk1
Gnas
hclust (*, "complete")

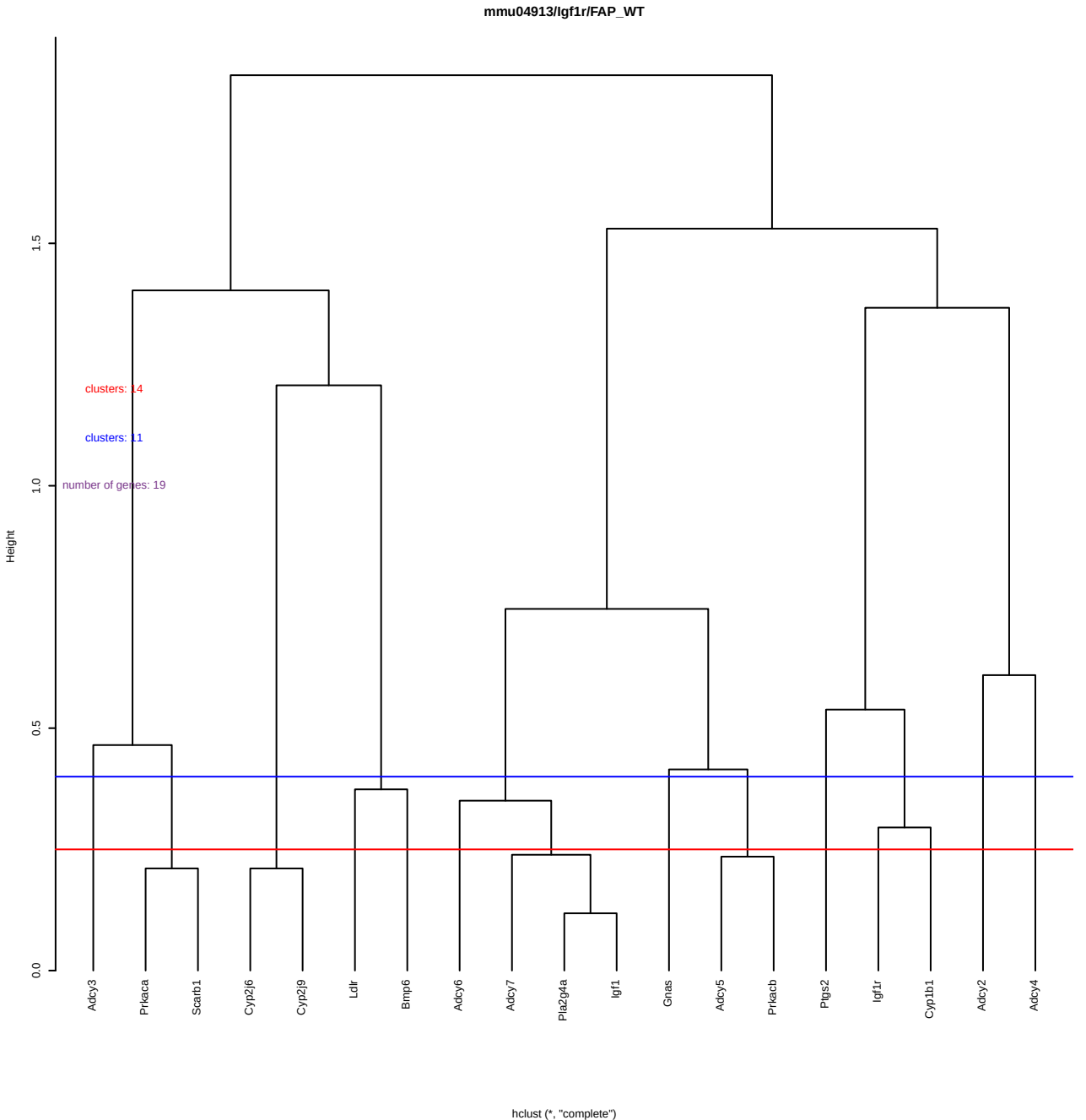

mmu04730/Igf1r/EC_KO
Height
0.0
0.5
1.0
1.5
clusters: 11
clusters: 11
number of genes: 27
Map2k2
Nras
Araf
Raf1
Plcb3
Itpr2
Mapk3
Gna11
Itpr3
Igf1r
Ppp2r1b
Ppp2cb
Map2k1
Kras
Gnai3
Gna13
Prkcg
Ppp2r1a
Gnai2
Gnas
Gna12
Ppp2ca
Mapk1
Plcb1
Itpr1
Gnaq
Lyn
hclust (*, "complete")

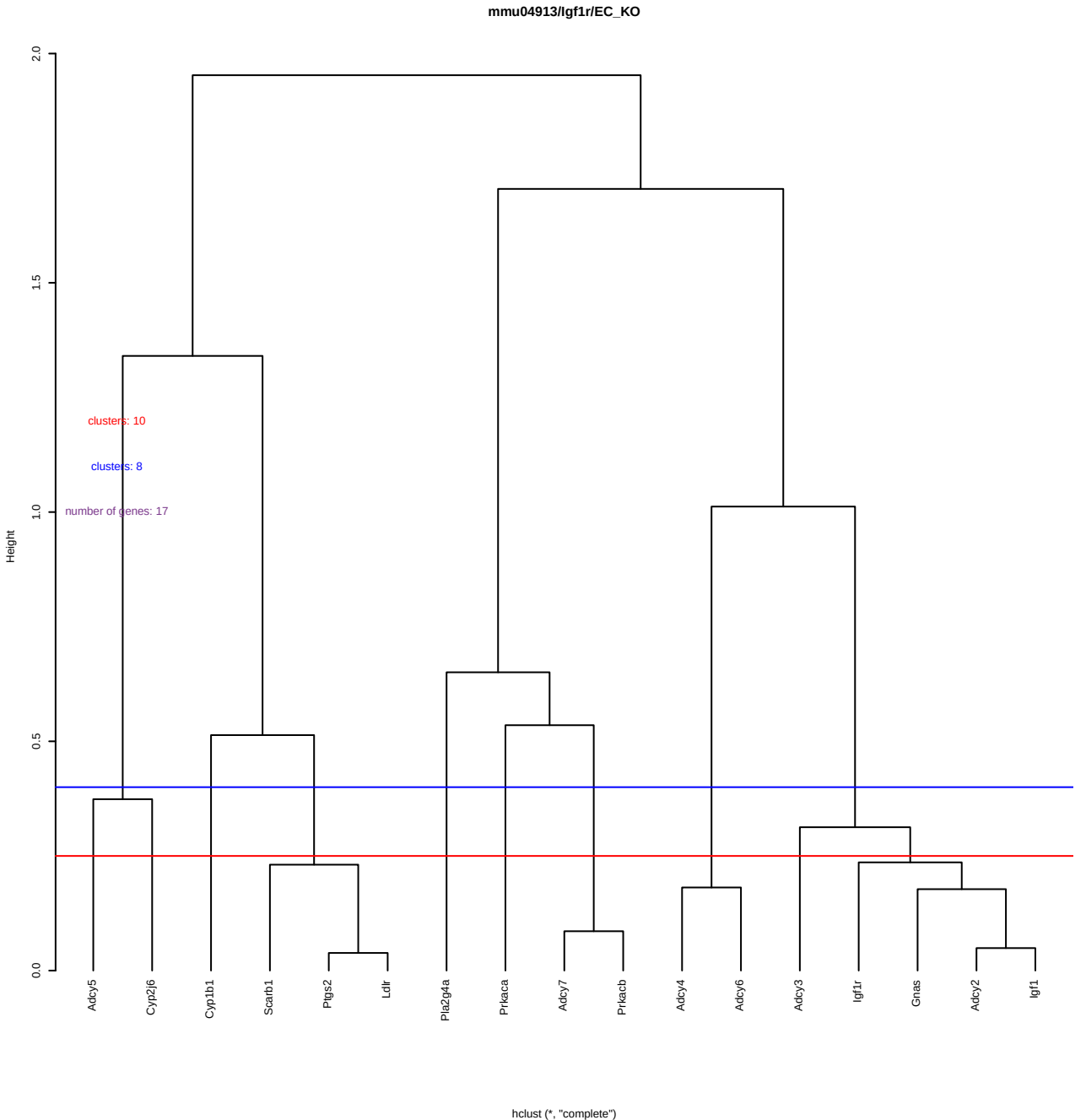

mmu04730/Igf1r/FAP_WT
clusters: 20
clusters: 16
number of genes: 31
Height
0.0
0.5
1.0
1.5
Itpr3
Mapk3
Cacna1a
Gna12
Gna11
Ppp2r1b
Plcb3
Map2k2
Gnai2
Ppp2r1a
Lyn
Gnao1
Itpr2
Ppp2ca
Gnas
Gucy1b3
Igf1
Igf1r
Map2k1
Mapk1
Ppp2cb
Gnai3
Pla2g4a
Itpr1
Kras
Gnaq
Nras
Araf
Prkca
Raf1
Gna13
hclust (*, "complete")

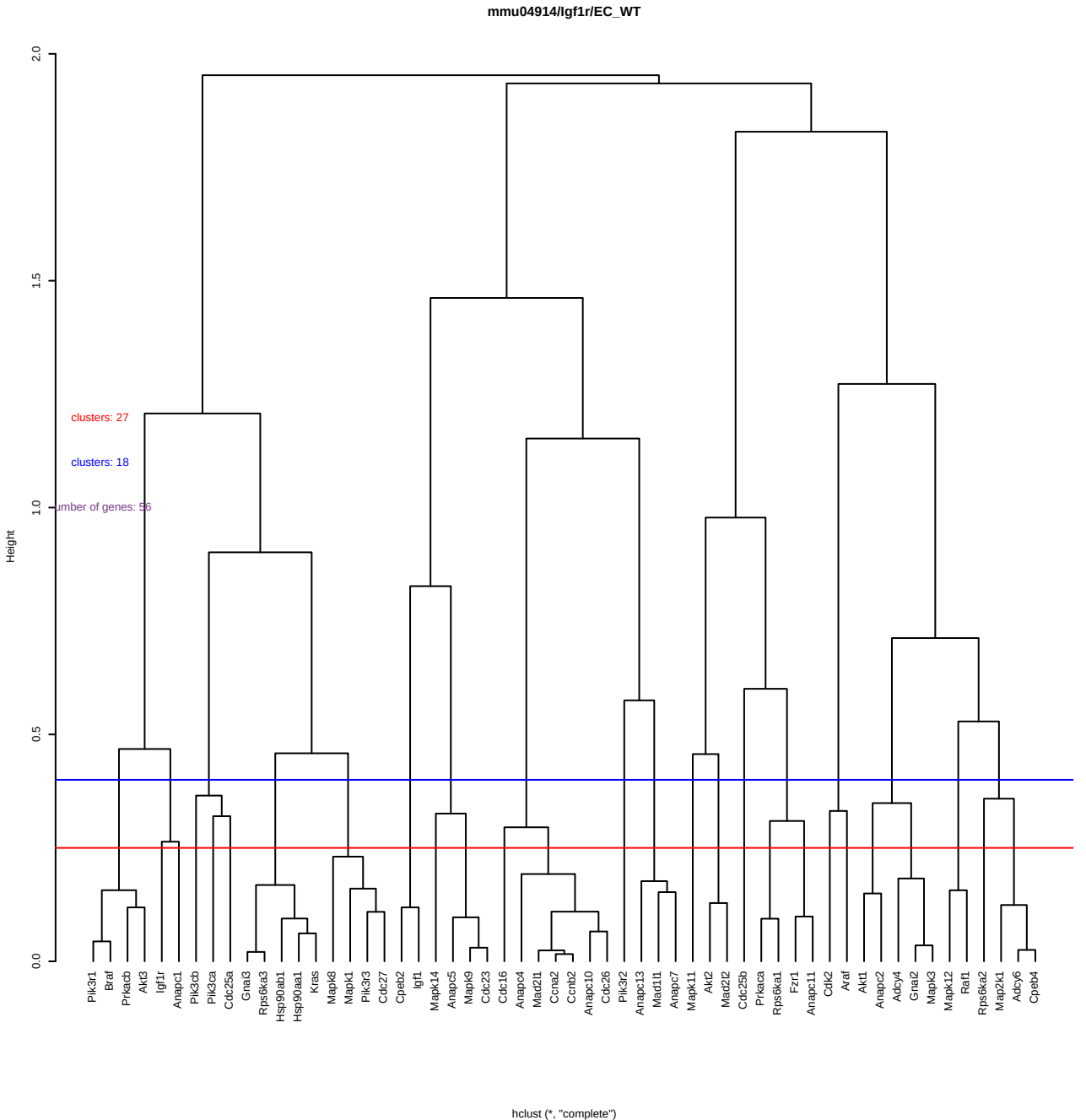

mmu04730/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 16
clusters: 13
number of genes: 28
Mapk3
Plcb3
Map2k2
Gna13
Map2k1
Gnai3
Lyn
Ppp2r1b
Pla2g4a
Mapk1
Ppp2ca
Ppp2cb
Kras
Prkca
Itpr1
Igf1r
Gnas
Itpr2
Gnao1
Gnaq
Igf1
Nras
Araf
Gna12
Gna11
Ppp2r1a
Raf1
Gnai2
hclust (*, "complete")

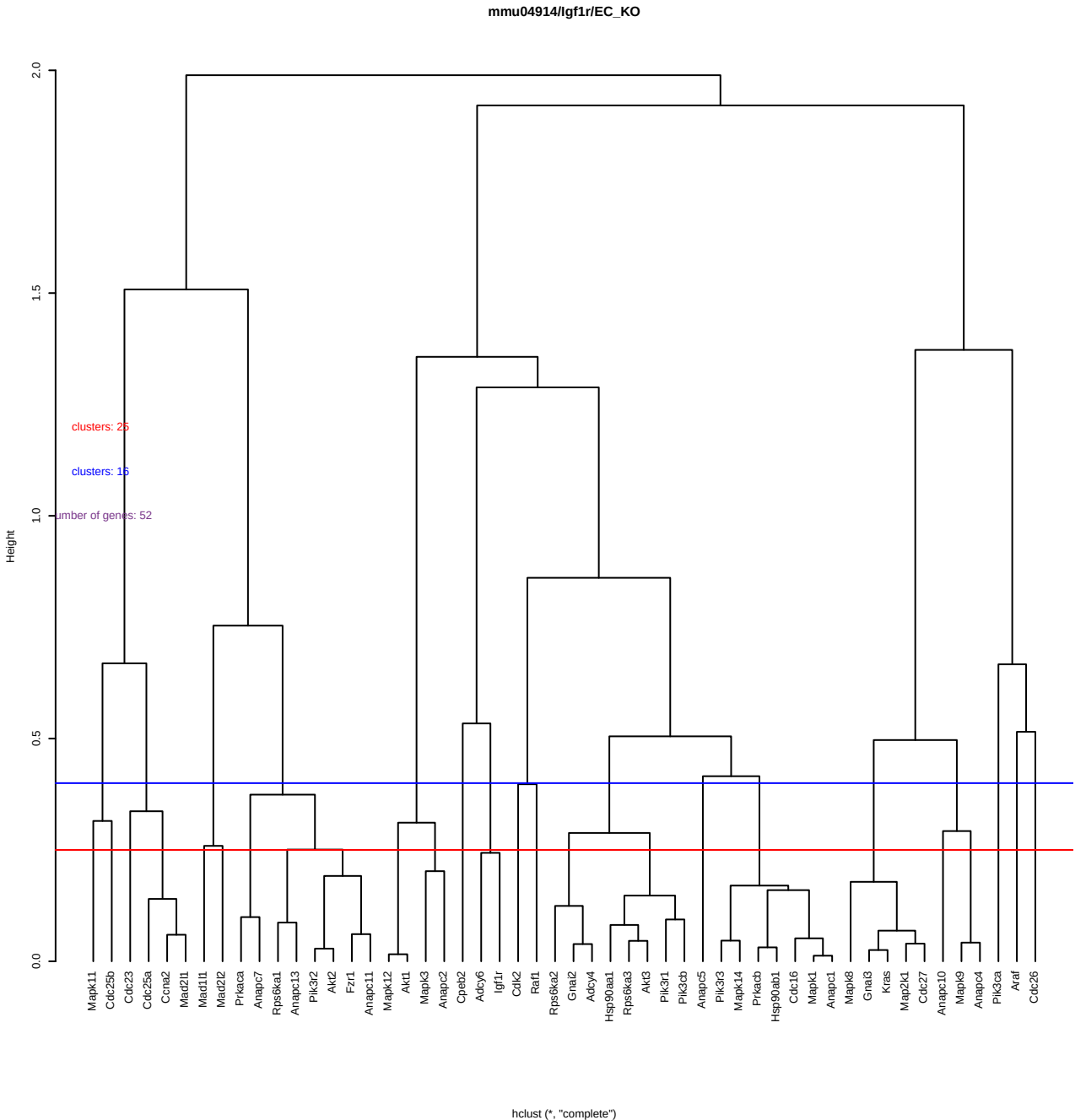

mmu04913/Igf1r/EC_WT
clusters: 9
clusters: 7
number of genes: 13
Height
0.0
0.5
1.0
1.5
Gnas
Prkacb
Insr
Igf1r
Bmp6
Adcy6
Scarb1
Adcy4
Ldlr
Cyp2j6
Cyp2j9
Prkaca
Igf1
hclust (*, "complete")

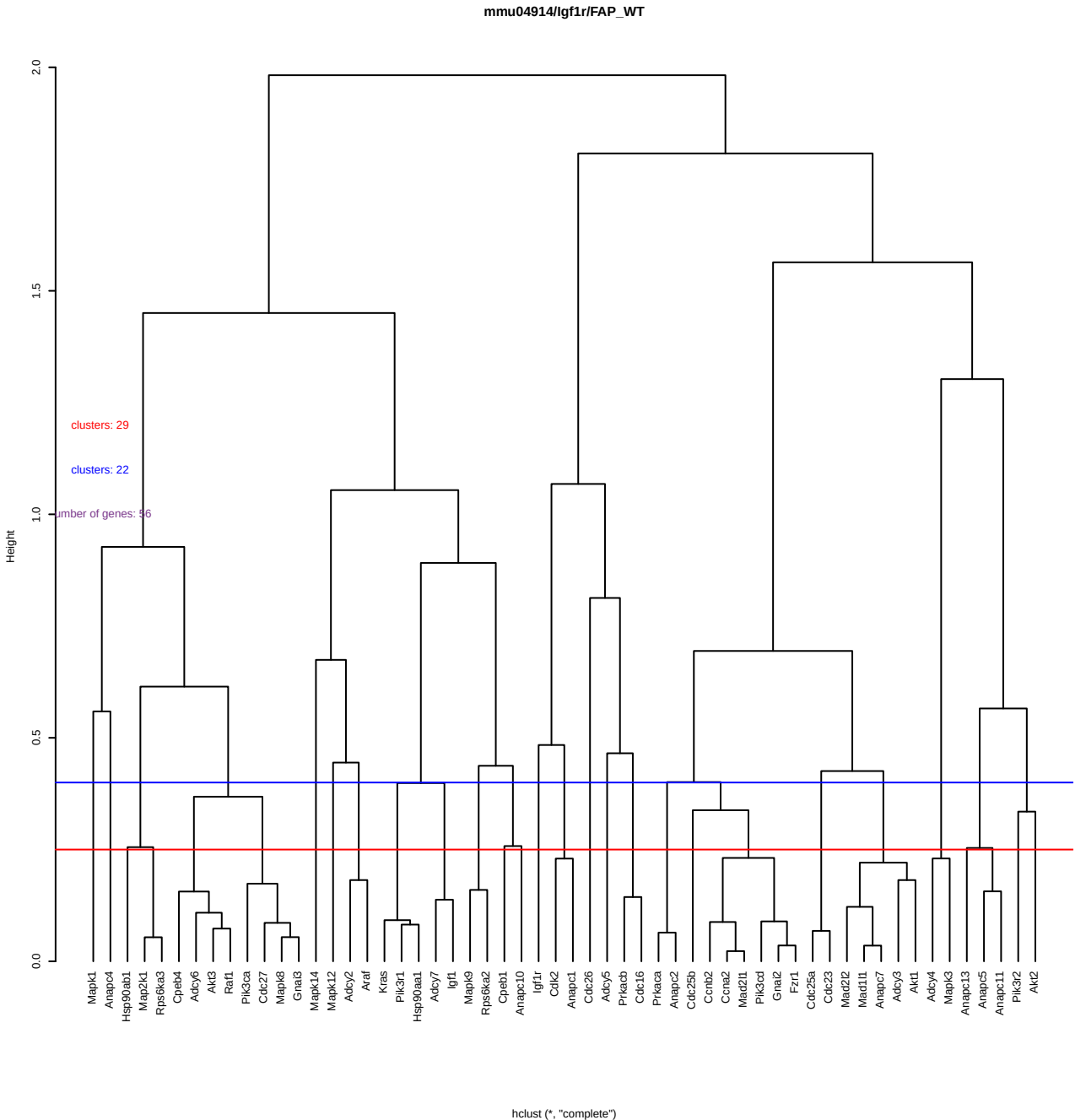

mmu04913/Igf1r/EC_KO
clusters: 7
clusters: 5
number of genes: 12
Height
0.0
0.5
1.0
1.5
Prkacb
Insr
Scarb1
Gnas
Adcy4
Adcy6
Igf1r
Prkaca
Acot2
Ldlr
Cyp2j6
Cyp2j9
hclust (*, "complete")

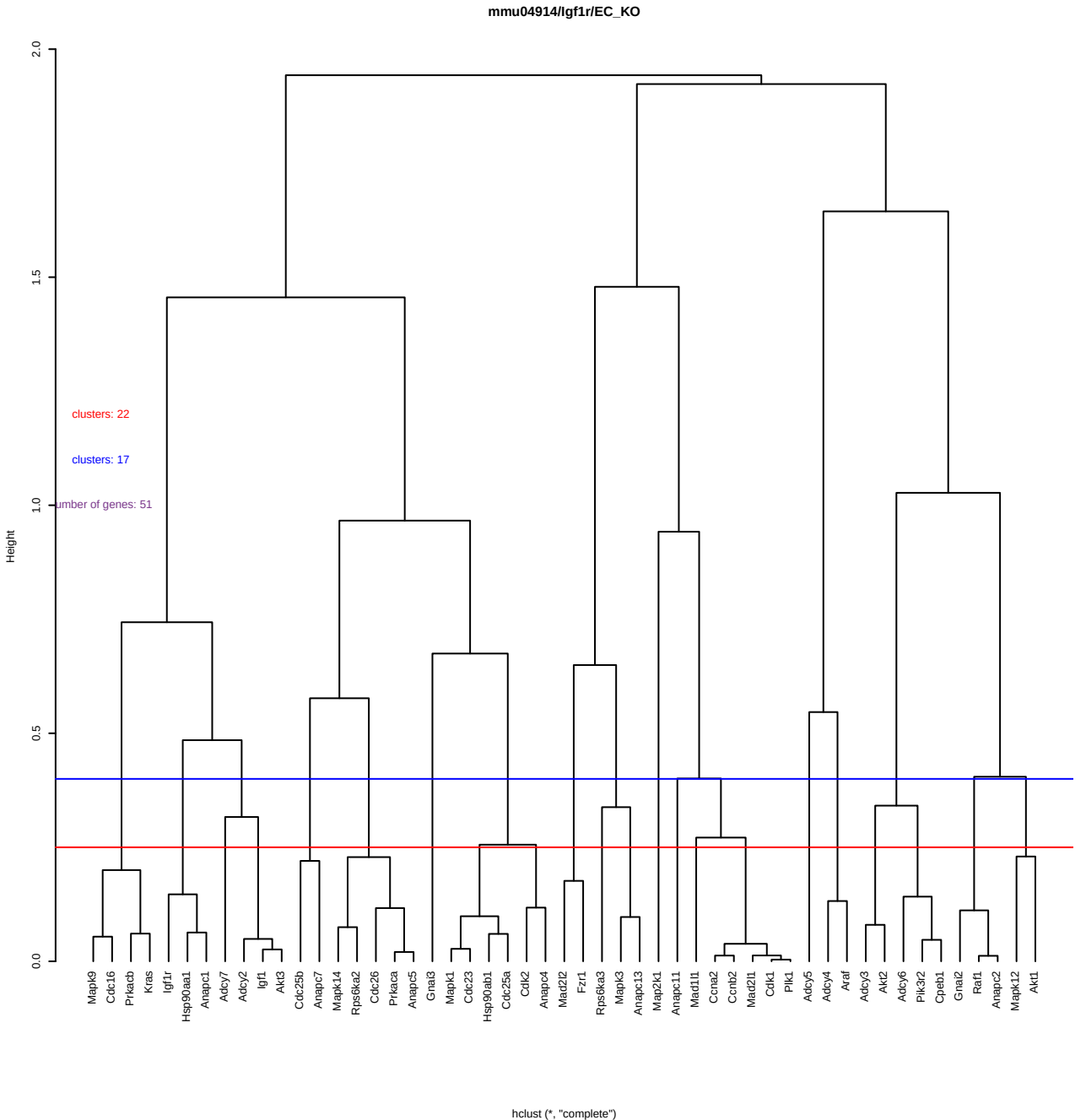

mmu04913/Igf1r/FAP_WT
clusters: 14
clusters: 11
number of genes: 19
Height
0.0
0.5
1.0
1.5
Adcy3
Prkaca
Scarb1
Cyp2j6
Cyp2j9
Ldlr
Bmp6
Adcy6
Adcy7
Pla2g4a
Igf1
Gnas
Adcy5
Prkacb
Ptgs2
Igf1r
Cyp1b1
Adcy2
Adcy4
hclust (*, "complete")

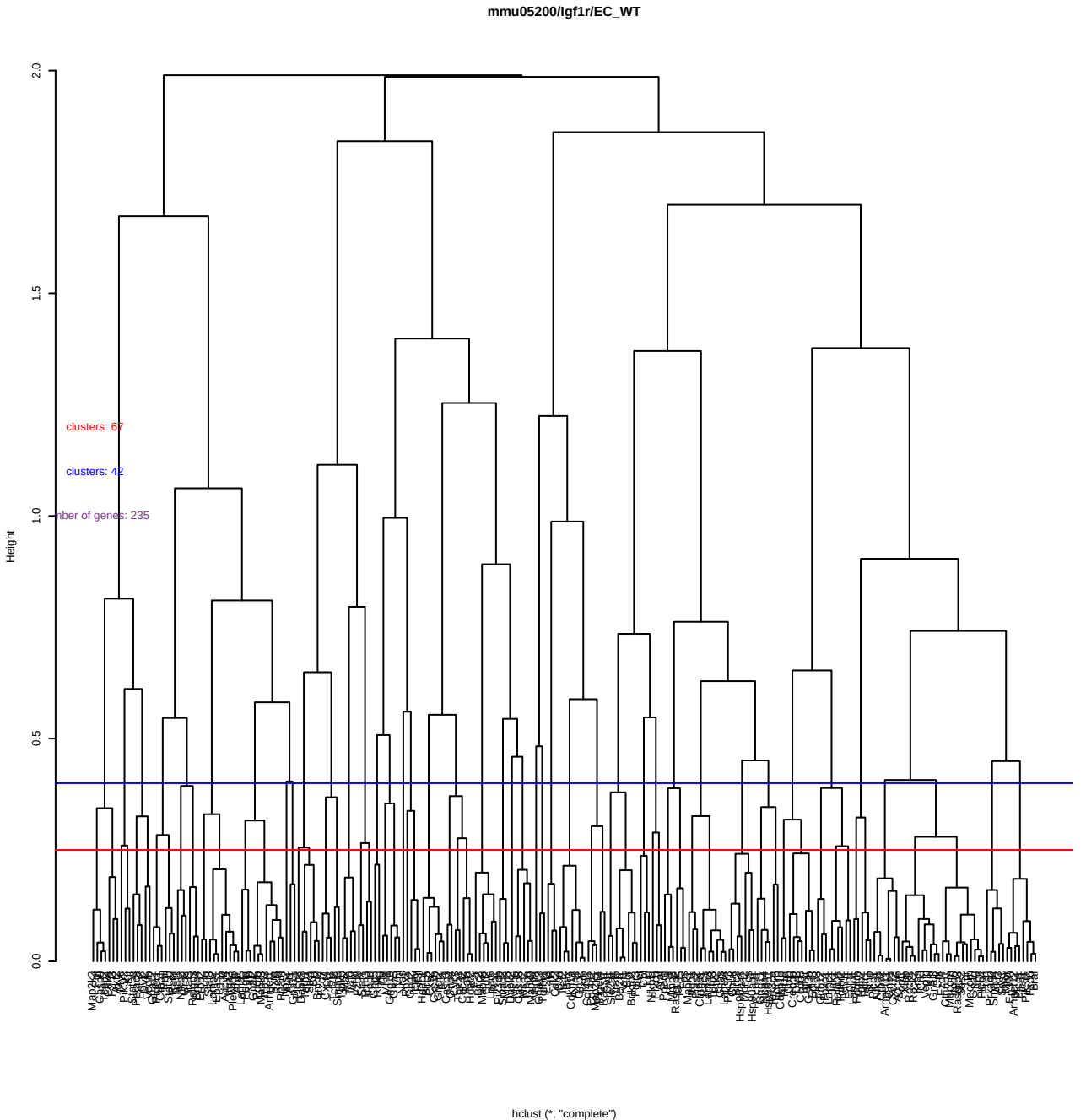

mmu04913/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 10
clusters: 8
number of genes: 17
Adcy5
Cyp2j6
Cyp1b1
Scarb1
Ptgs2
Ldlr
Pla2g4a
Prkaca
Adcy7
Prkacb
Adcy4
Adcy6
Adcy3
Igf1r
Gnas
Adcy2
Igf1
hclust (*, "complete")

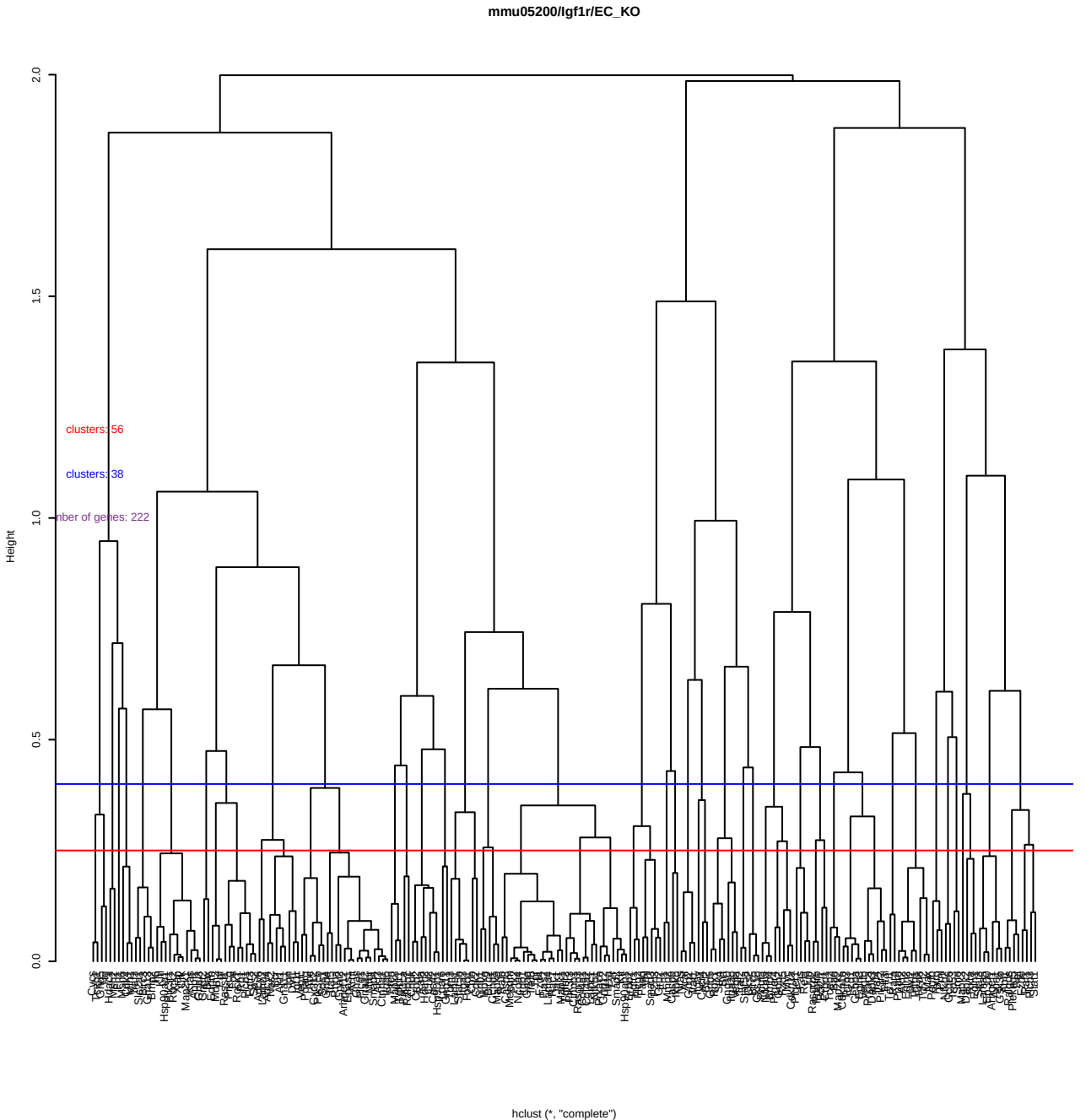

mmu04914/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 27
clusters: 18
umber of genes: 56
Pik3r1
Braf
Prkacb
Akt3
Igf1r
Anapc1
Pik3cb
Pik3ca
Cdc25a
Gnai3
Rps6ka3
Hsp90ab1
Hsp90aa1
Kras
Mapk8
Mapk1
Pik3r3
Cdc27
Cpeb2
Igf1
Mapk14
Anapc5
Mapk9
Cdc23
Cdc16
Anapc4
Mad2l1
Ccna2
Ccnb2
Anapc10
Cdc26
Pik3r2
Anapc13
Mad1l1
Anapc7
Mapk11
Akt2
Mad2l2
Cdc25b
Prkaca
Rps6ka1
Fzr1
Anapc11
Cdk2
Araf
Akt1
Anapc2
Adcy4
Gnai2
Mapk3
Mapk12
Raf1
Rps6ka2
Map2k1
Adcy6
Cpeb4
hclust (*, "complete")

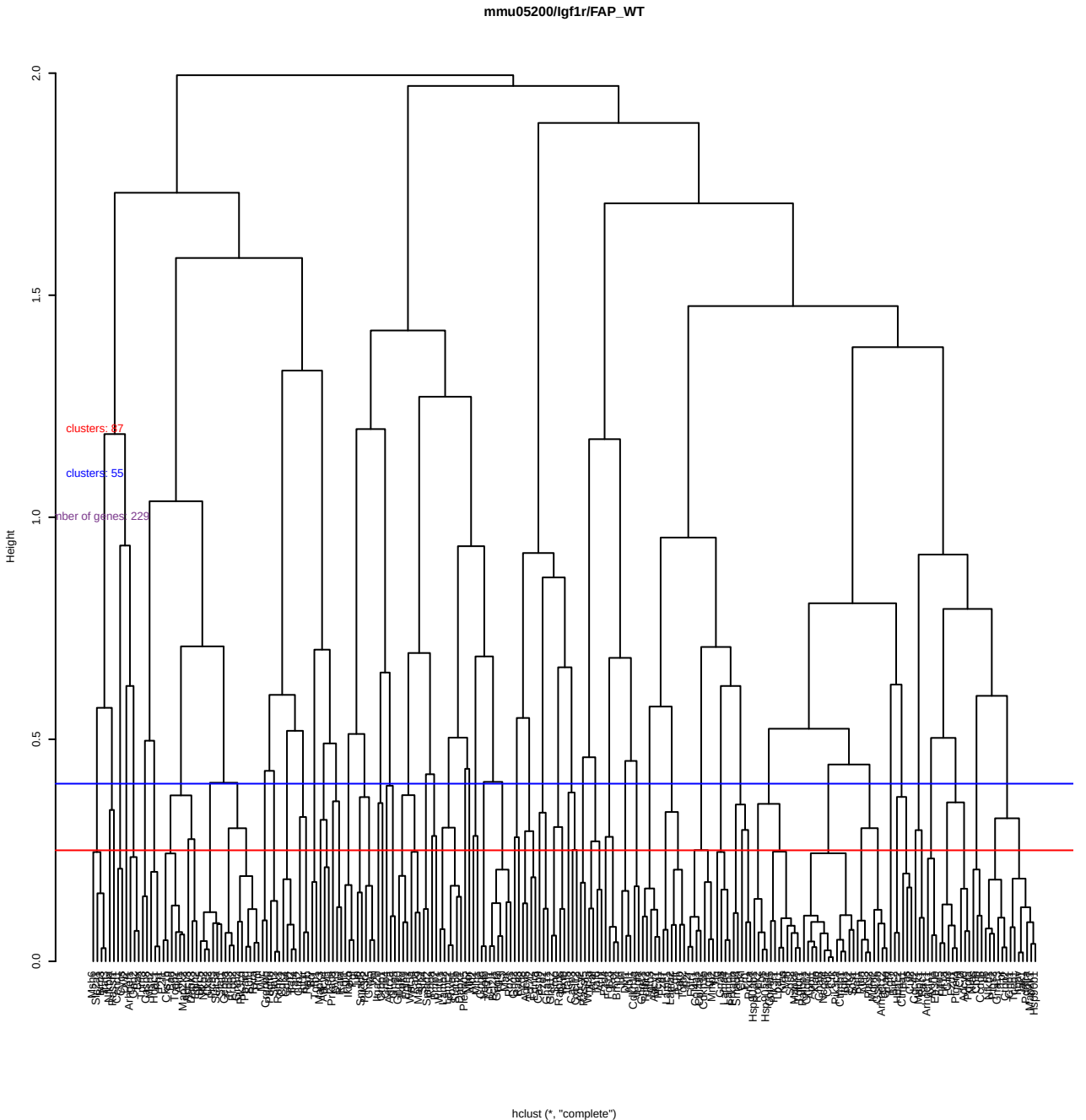

mmu04914/Igf1r/EC_KO
clusters: 26
clusters: 16
umber of genes: 52
Height
0.0
0.5
1.0
1.5
2.0
Mapk11
Cdc25b
Cdc23
Cdc25a
Ccna2
Mad2l1
Mad1l1
Mad2l2
Prkaca
Anapc7
Rps6ka1
Anapc13
Pik3r2
Akt2
Fzr1
Anapc11
Mapk12
Akt1
Mapk3
Anapc2
Cpeb2
Adcy6
Igf1r
Cdk2
Raf1
Rps6ka2
Gnai2
Adcy4
Hsp90aa1
Rps6ka3
Akt3
Pik3r1
Pik3cb
Anapc5
Pik3r3
Mapk14
Prkacb
Hsp90ab1
Cdc16
Mapk1
Anapc1
Mapk8
Gnai3
Kras
Map2k1
Cdc27
Anapc10
Mapk9
Anapc4
Pik3ca
Araf
Cdc26
hclust (*, "complete")

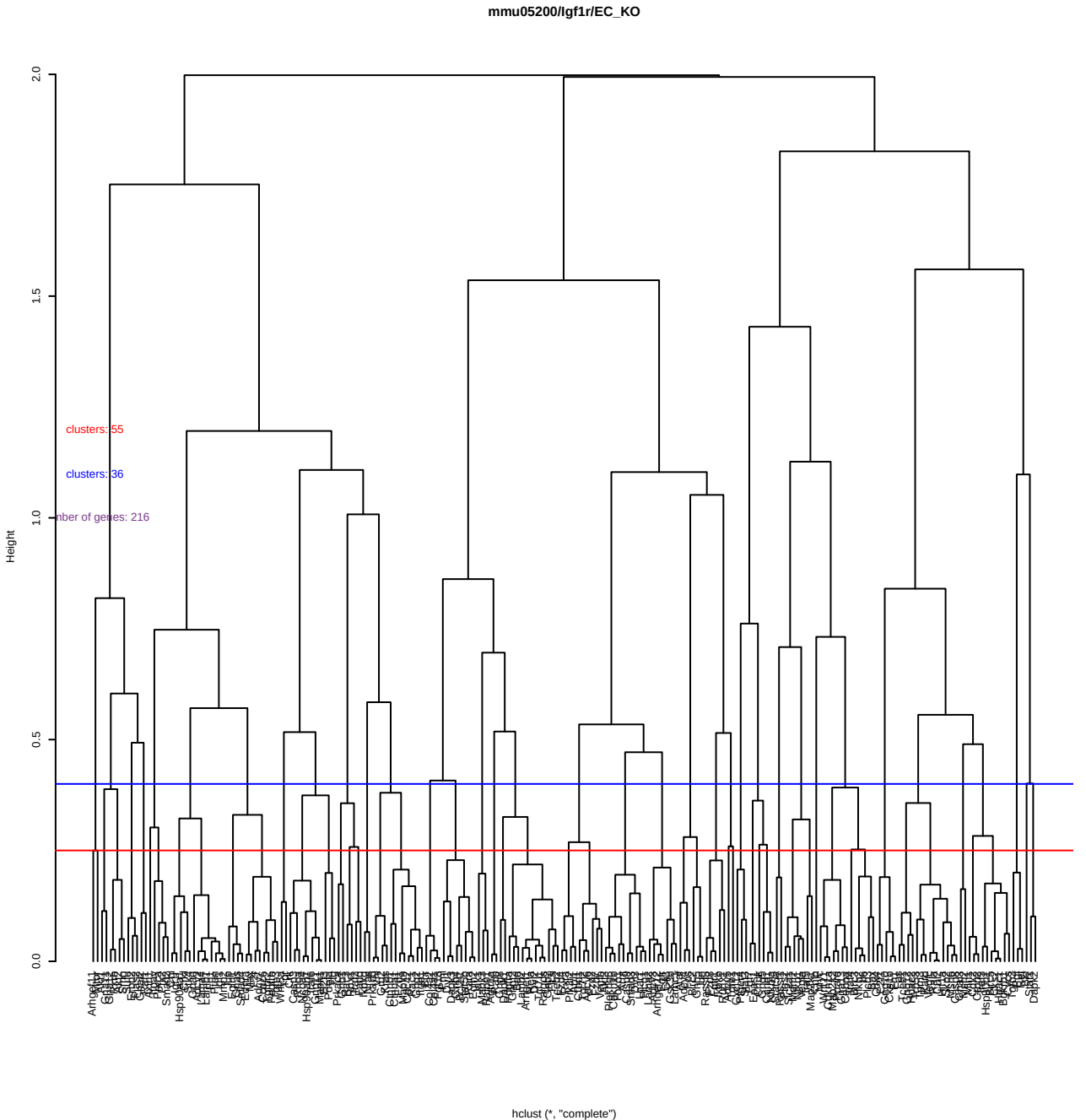

mmu04914/Igf1r/FAP_WT
Height
0.0
0.5
1.0
1.5
2.0
clusters: 29
clusters: 22
umber of genes: 96
Mapk1
Anapc4
Hsp90ab1
Map2k1
Rps6ka3
Cpeb4
Adcy6
Akt3
Raf1
Pik3ca
Cdc27
Mapk8
Gnai3
Mapk14
Mapk12
Adcy2
Araf
Kras
Pik3r1
Hsp90aa1
Adcy7
Igf1
Mapk9
Rps6ka2
Cpeb1
Anapc10
Igf1r
Cdk2
Anapc1
Cdc26
Adcy5
Prkacb
Cdc16
Prkaca
Anapc2
Cdc25b
Ccnb2
Ccna2
Mad2l1
Pik3cd
Gnai2
Fzr1
Cdc25a
Cdc23
Mad2l2
Mad1l1
Anapc7
Adcy3
Akt1
Adcy4
Mapk3
Anapc13
Anapc5
Anapc11
Pik3r2
Akt2
hclust (*, "complete")

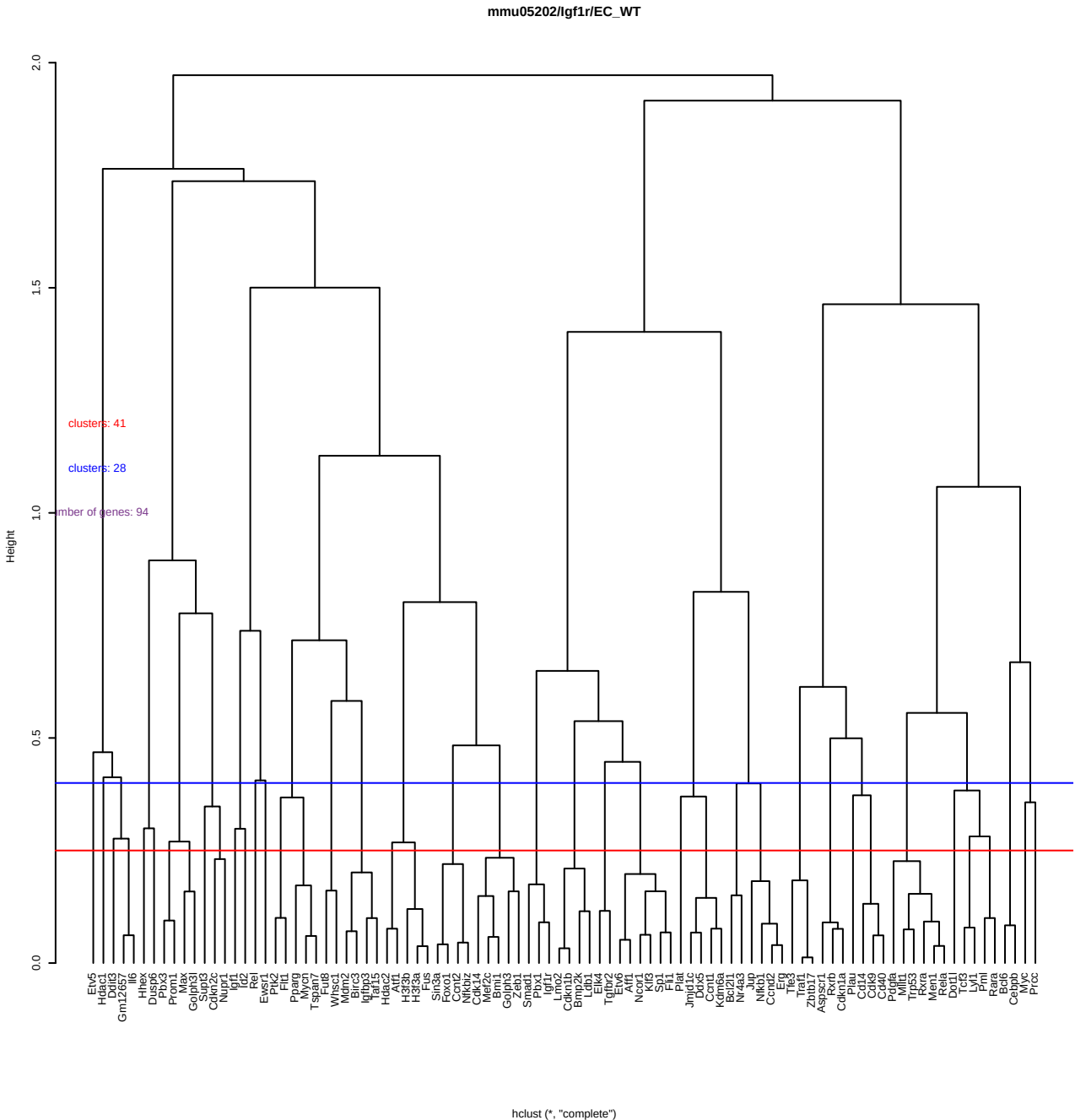

mmu04914/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 22
clusters: 17
umber of genes: 51
Mapk9
Cdc16
Prkacb
Kras
Igf1r
Hsp90aa1
Anapc1
Adcy7
Adcy2
Igf1
Akt3
Cdc25b
Anapc7
Mapk14
Rps6ka2
Cdc26
Prkaca
Anapc5
Gnai3
Mapk1
Cdc23
Hsp90ab1
Cdc25a
Cdk2
Anapc4
Mad2l2
Fzr1
Rps6ka3
Mapk3
Anapc13
Map2k1
Anapc11
Mad1l1
Ccna2
Ccnb2
Mad2l1
Cdk1
Plk1
Adcy5
Adcy4
Araf
Adcy3
Akt2
Adcy6
Pik3r2
Cpeb1
Gnal2
Raf1
Anapc2
Mapk12
Akt1
hclust (*, "complete")

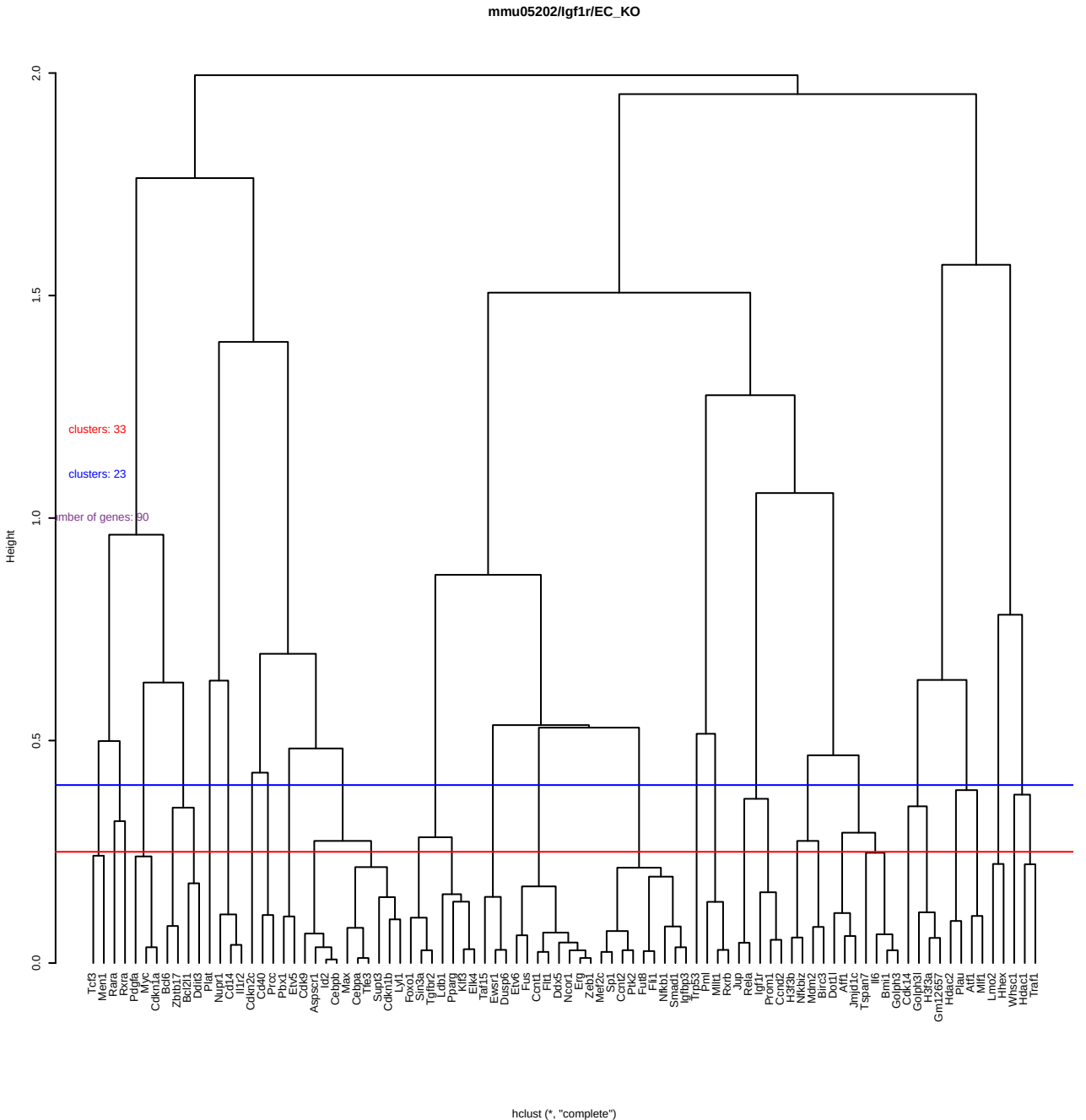

mmu05200/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 67
clusters: 42
nber of genes: 235
hclust (*, "complete")

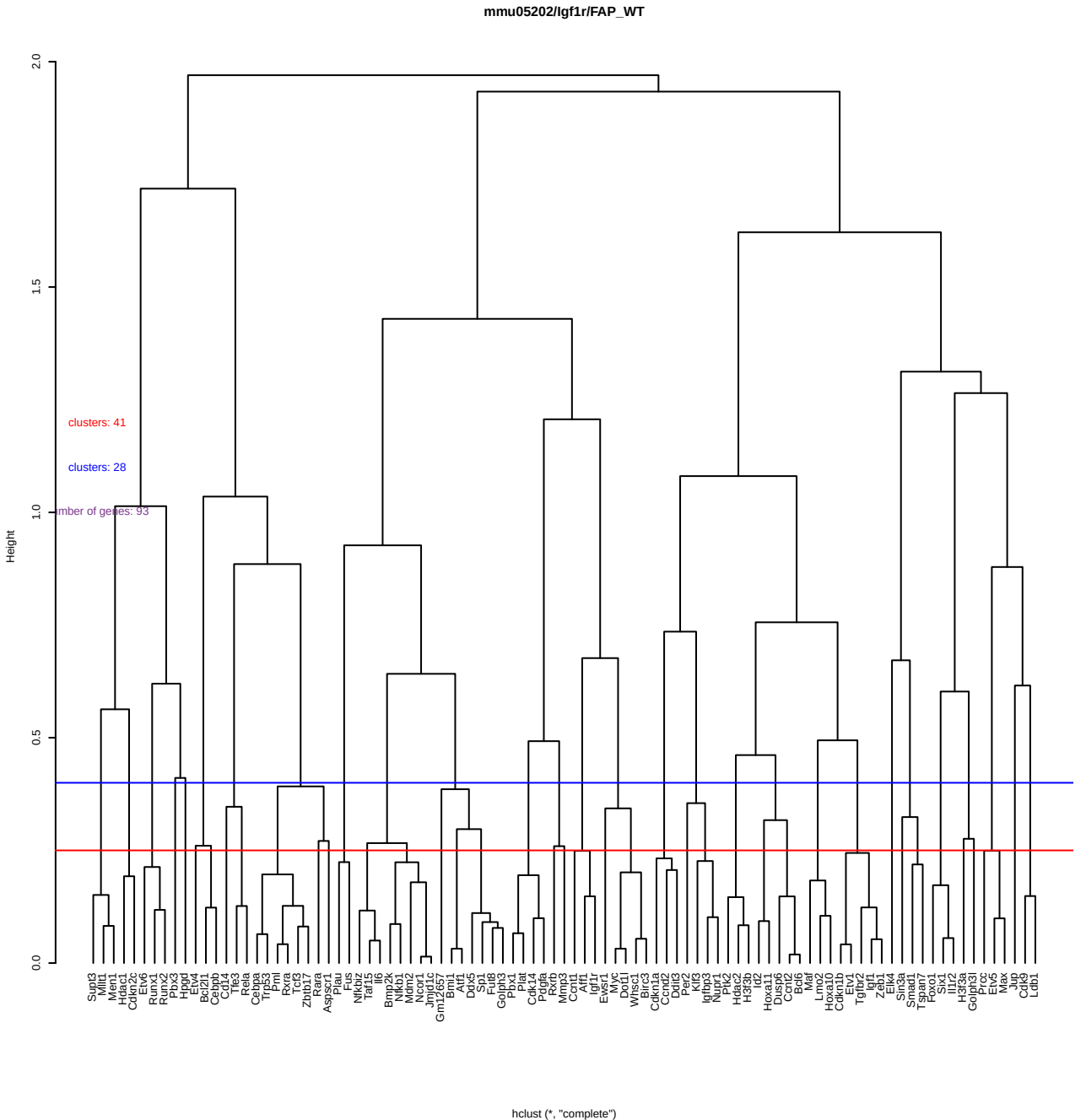

mmu05200/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 56
clusters: 38
nber of genes: 222
hclust (*, "complete")

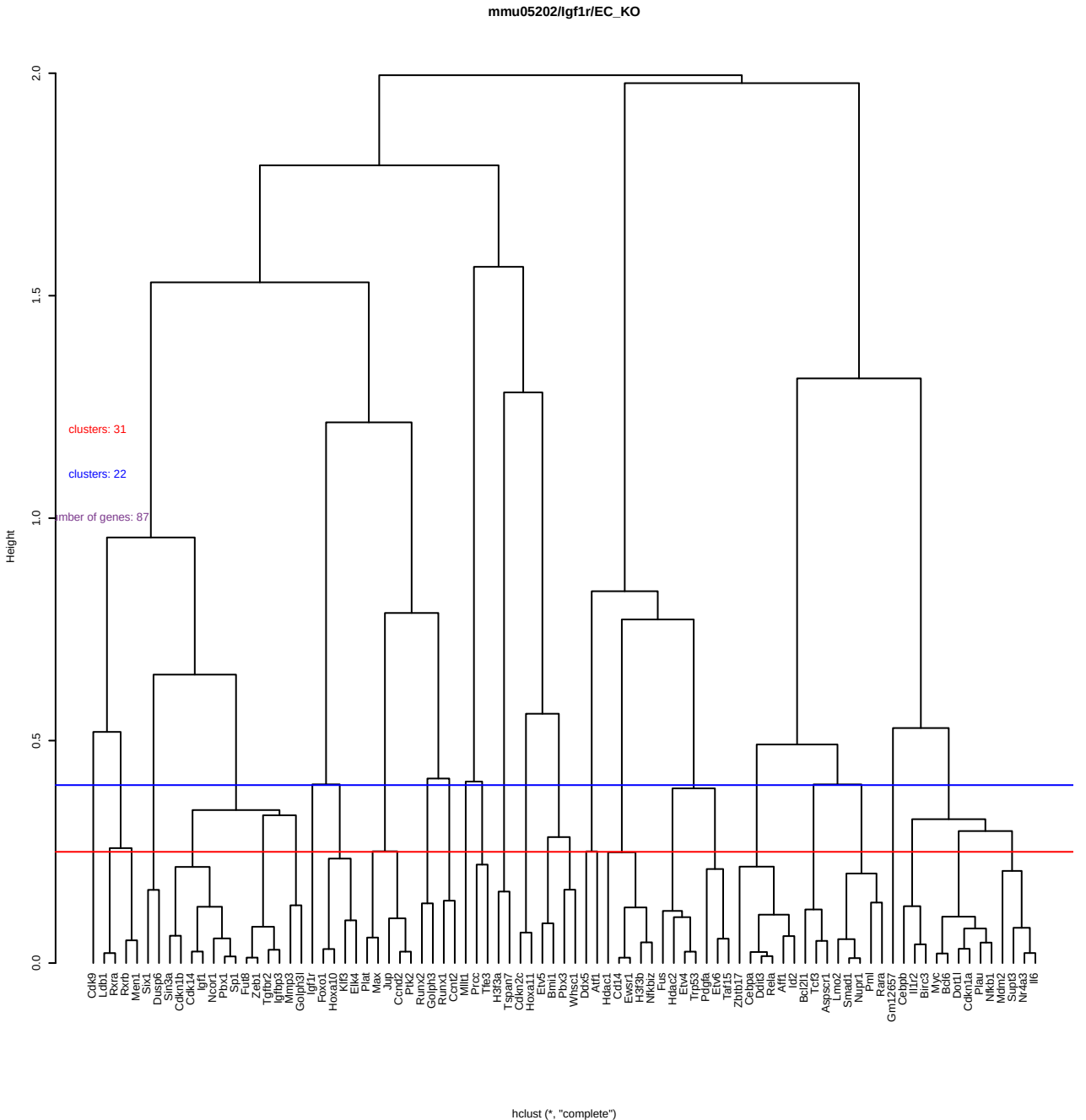

mmu05200/Igf1r/FAP_WT
clusters: 87
clusters: 55
nber of genes: 229
Height
0.0
0.5
1.0
1.5
2.0
hclust (*, "complete")

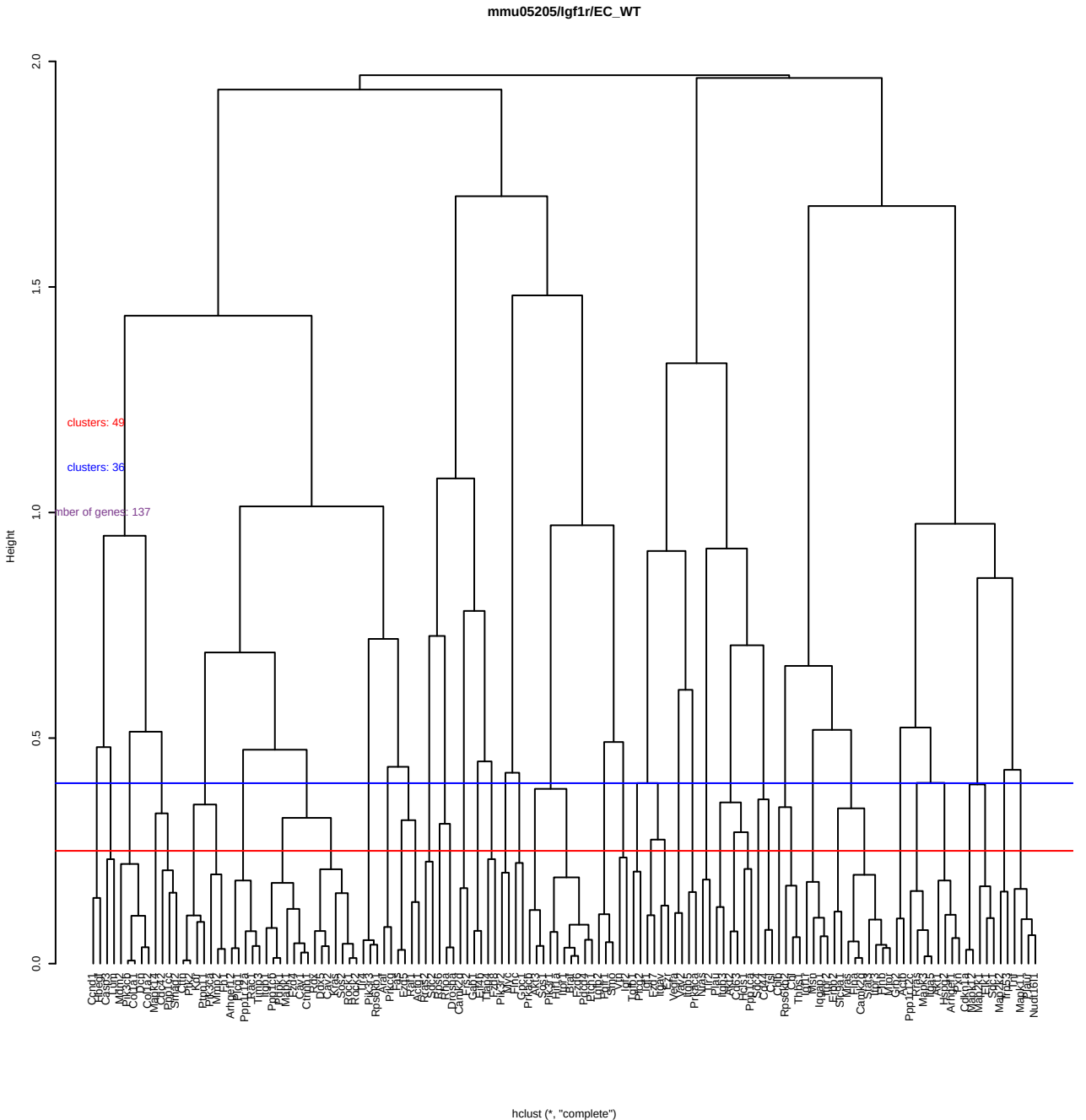

mmu05200/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 55
clusters: 36
nber of genes: 216
hclust (*, "complete")

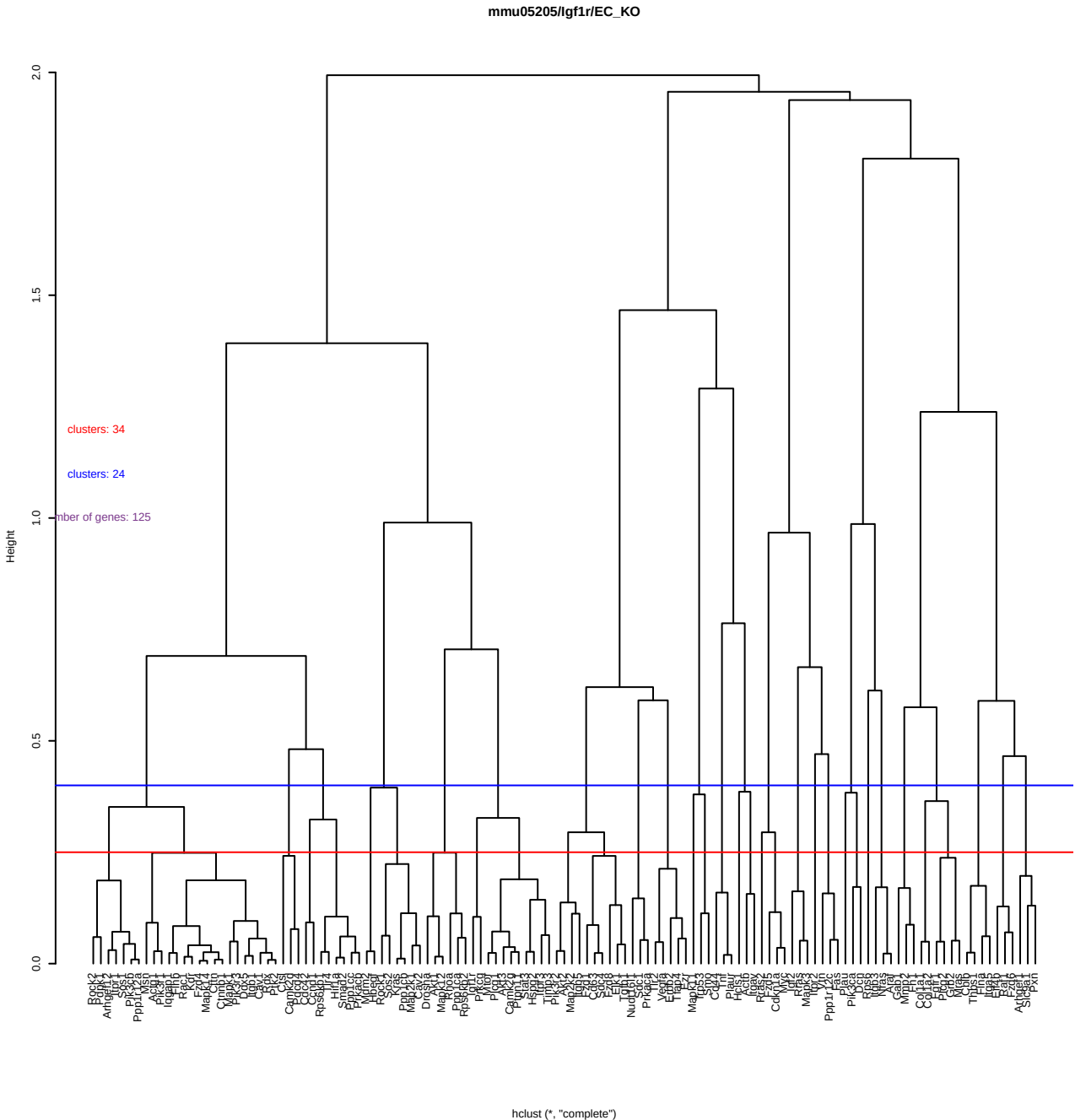

mmu05202/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 41
clusters: 28
mber of genes: 94
Etv5
Hdac1
Ddit3
Gm12657
Il6
Hhex
Dbp3
Pbx3
Prom1
Max
Golph3l
Supt3
Cdkn2c
Nupr1
Igf1
Id2
Rel
Ewsr1
Pik2
Flt1
Pxdng
Myom1
Tspan7
Fut8
Whsc1
Mdm2
Birc3
Igfbp3
Tgfb1
Hdac2
Atf1
H3f3b
H3f3a
Fus
Slx3a
Foxo1
Ccn1
Nfkbiz
Cdk14
Mef2c
Bmi1
Gzmm3
Zfp91
Smad1
Pbx1
Igf1r
Lmo2
Cdkn1b
Bmp2k
Lhfp1
Elk4
Tgfbr2
Etv6
Atf1
Nccr1
Klf3
Sp1
Flt1
Plat
Jmjd1c
Ddx5
Ccnt1
Ipo9a
Kpna1
Bbx
Nr4a3
Jup
Nfkb1
Ccnd2
Eig
Tfe3
Tnfrsf1
Zbtb17
Aspscr1
Rxrb
Cdkn1a
Plau
Cdk4
Cdk14
Ccl40
Pdgfa
Mll1
Trp53
Rxra
Mern1
Rela
Dot1l
Tcf3
Lyl1
Pml
Rara
Bcl6
Cebpb
Myc
Prc
hclust (*, "complete")


mmu05202/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 33
clusters: 23
mber of genes: 90
Tcf3
Men1
Rara
Rxra
Pdgfa
Myc
Cdkn1a
Bcl6
Zbtb17
Bcl2l1
Ddit3
Plat
Nupr1
Cd14
Il1r2
Cdkn2c
Cd40
Prcc
Phx1
Etv1
Cdk9
Aspscr1
Id2
Cebpb
Max
Cebpa
Tfe3
Sun13
Cdkn1b
Lyl1
Foxo1
Sin3a
Tgfbr2
Ldb1
Pparg
Klf3
Elk4
Tef
Tbx15
Ewscr1
Dusp6
Etv6
Fus
Ccnt1
Fli1
Dox5
Ncor1
Erg
Zfp41
Mef2c
Spi1
Ccnt2
Ptk2
Fut8
Fli1
Nfkb1
Smad1
Igfbp3
Tfrc
Pm1
Mll1
Rxrb
Jup
Rela
Igf1r
Prom1
Ccnd2
Cyp26b1
Nfkbiz
Mdm2
Birc3
Dot1l
Aff1
Jmjd1c
Tspan7
Il6
Bmi1
Gbp3
Cdk14
Golph3l
H3f3a
Gm12657
Hdac2
Plau
Atf1
Mll1
Lmo2
Hhex
Whsc1
Hdac1
Traf1
hclust (*, "complete")

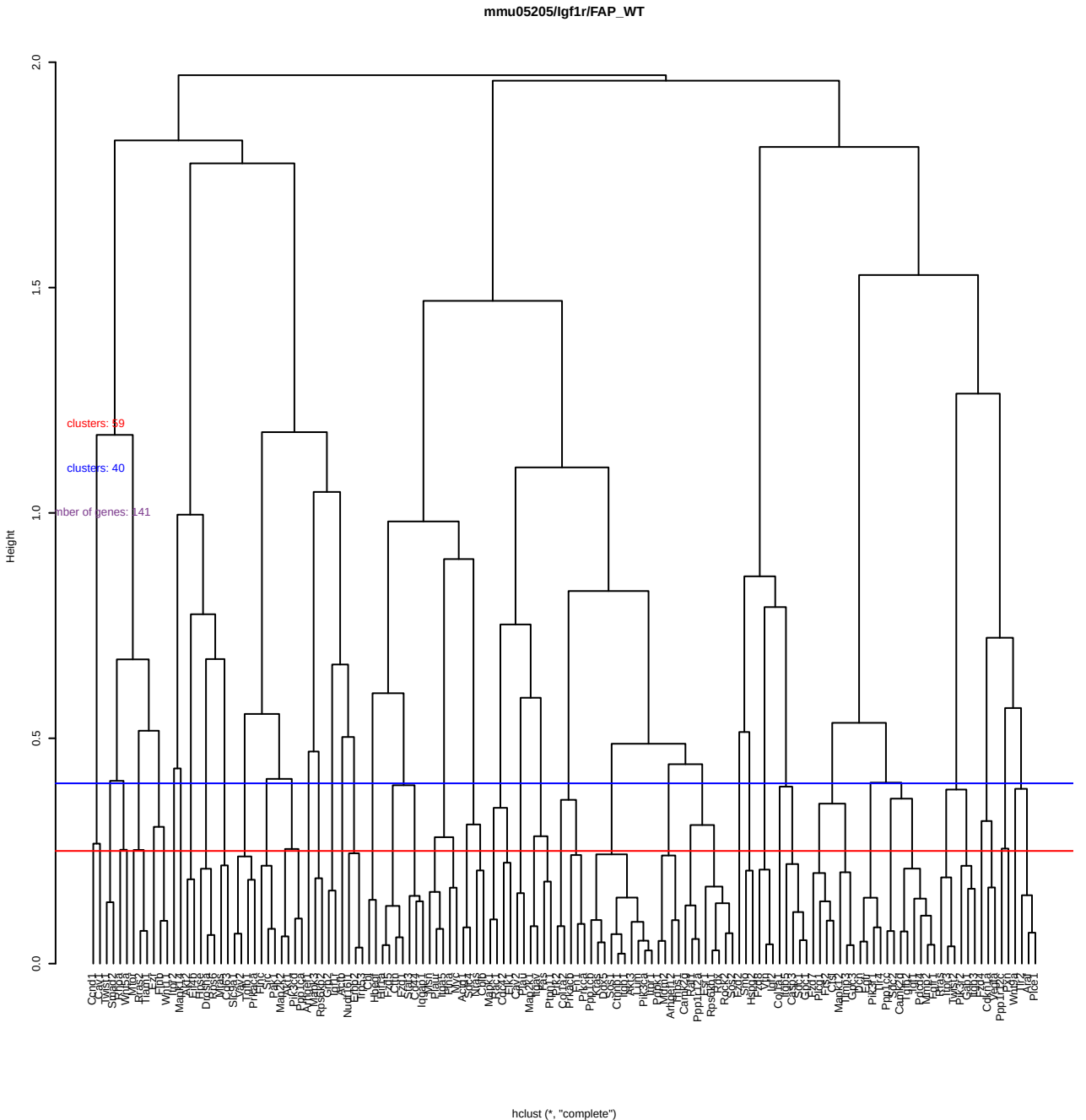

mmu05202/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 41
clusters: 28
mber of genes: 93
Supt3
Mllt1
Men1
Hdac1
Cdkn2c
Etv6
Runx1
Runx2
Pbx2
Hpgd
Etv4
Bcl2l1
Cebpb
Cd14
Tfe3
Rela
Cebpa
Trp53
Pml
Rxra
Tcf3
Zfp217
Rara
Asgscr1
Plau
Fus
Nfkbiz
Taf15
Il6
Bmp2k
Nfkb1
Mdm2
Ncor1
Jmjd1c
Gm12657
Bmi1
Atf1
Atf4
Dpy5
Sp1
Fut8
Golph3
Pbx1
Plat
Cdk14
Pdgfra
Rxrb
Mmp3
Ccnt1
Aff1
Igf1r
Ewsr1
Myc
Dnmt1
Whsc1
Birc3
Cdkn1a
Ccnd2
Ddit3
Per2
Kdm3
Igfbp3
Nupr1
Plk2
Hdac2
H3f3b
Id2
Hoxa11
Dusp2
Ccnf2
Bcl6
Maf
Lmo2
Hoxa10
Cdkn1b
Ezh2
Tgfbr1
Igf1
Zeb1
Elk4
Sin3a
Smad1
Tspan7
Fmod
Six1
Il1r2
H3f3a
Golph3l
Prcc
Etv5
Max
Jup
Cdk9
Ldb1
hclust (*, "complete")

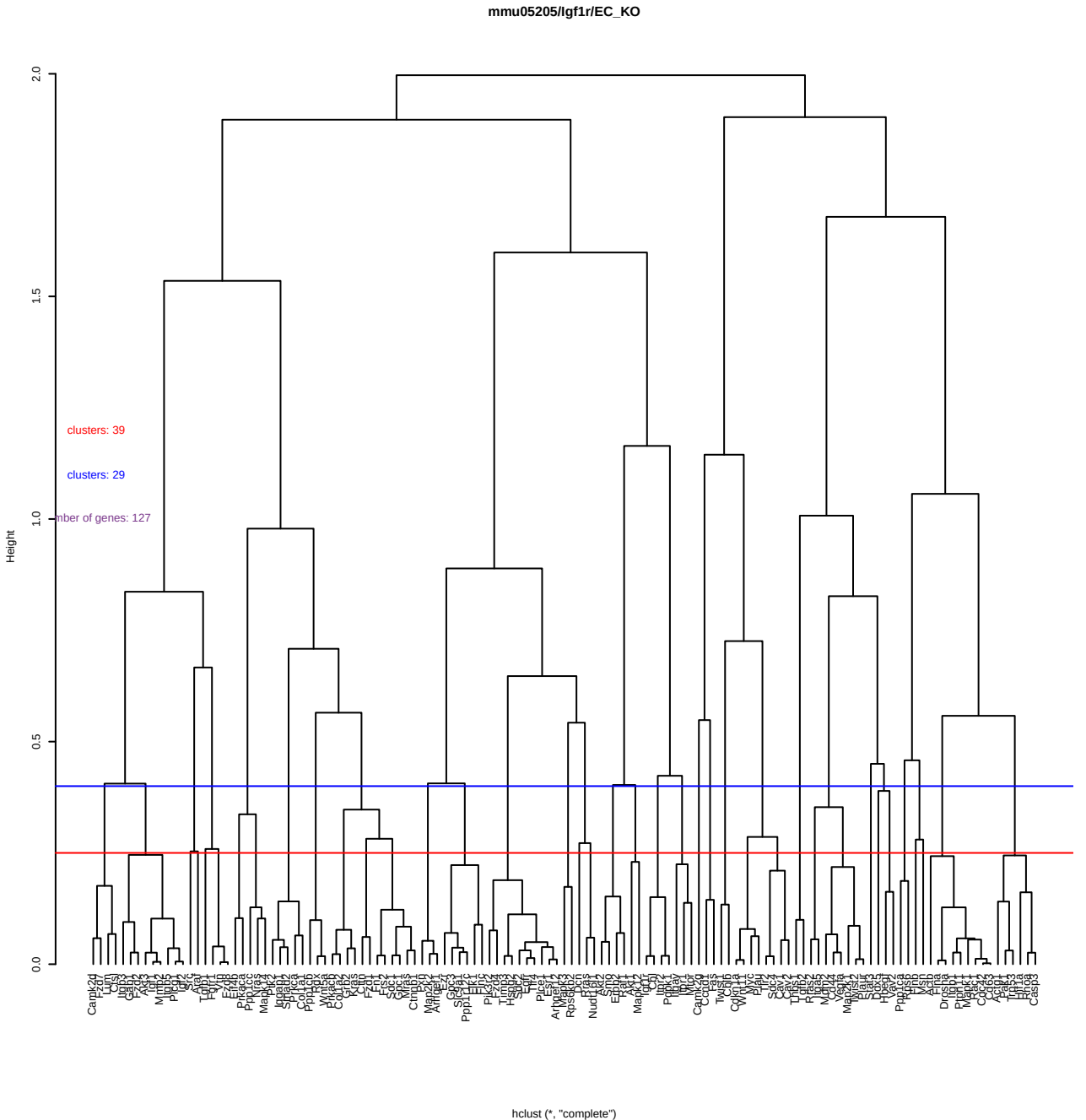

mmu05202/Igf1r/EC_KO
Height
0.0
0.5
1.0
1.5
2.0
clusters: 31
clusters: 22
mber of genes: 87
Cdk9
Ldb1
Rxra
Rxrb
Men1
Six1
Dusp6
Sin3a
Cdkn1b
Cdk14
Igf1
Ncor1
Pbx1
Spi1
Fut8
Zeb1
Tgfbr2
Igfbp3
Mmp3
Golph3l
Igf1r
Foxo1
Hoxa10
Klf3
Elk4
Plat
Max
Jup
Ccnd2
Pik2
Runx2
Golph3
Runx1
Ccnt2
Mllt1
Proc
Tle3
H3f3a
Tspan7
Cdkn2c
Hoxa1
Etv1
Bmi1
Pbx3
Whsc1
Ddx5
Atf1
Hdac1
Cd14
Ewsr1
H3f3b
Nfkbiz
Fus
Hdac2
Etv4
Trp53
Pdgfa
Etv6
Taf15
Zbtb17
Cebpa
Ddit3
Rela
Atf1
Id2
Bcl2l1
Tcf3
Aspscr1
Lmo1
Smad1
Nupr1
Pml
Rara
Gm12657
Cebpb
Il1r2
Birc3
Myc
Bdf6
Dot1l
Cdkn1a
Plau
Nfkb1
Mdm2
Supt3
Nr4a3
Il6
hclust (*, "complete")

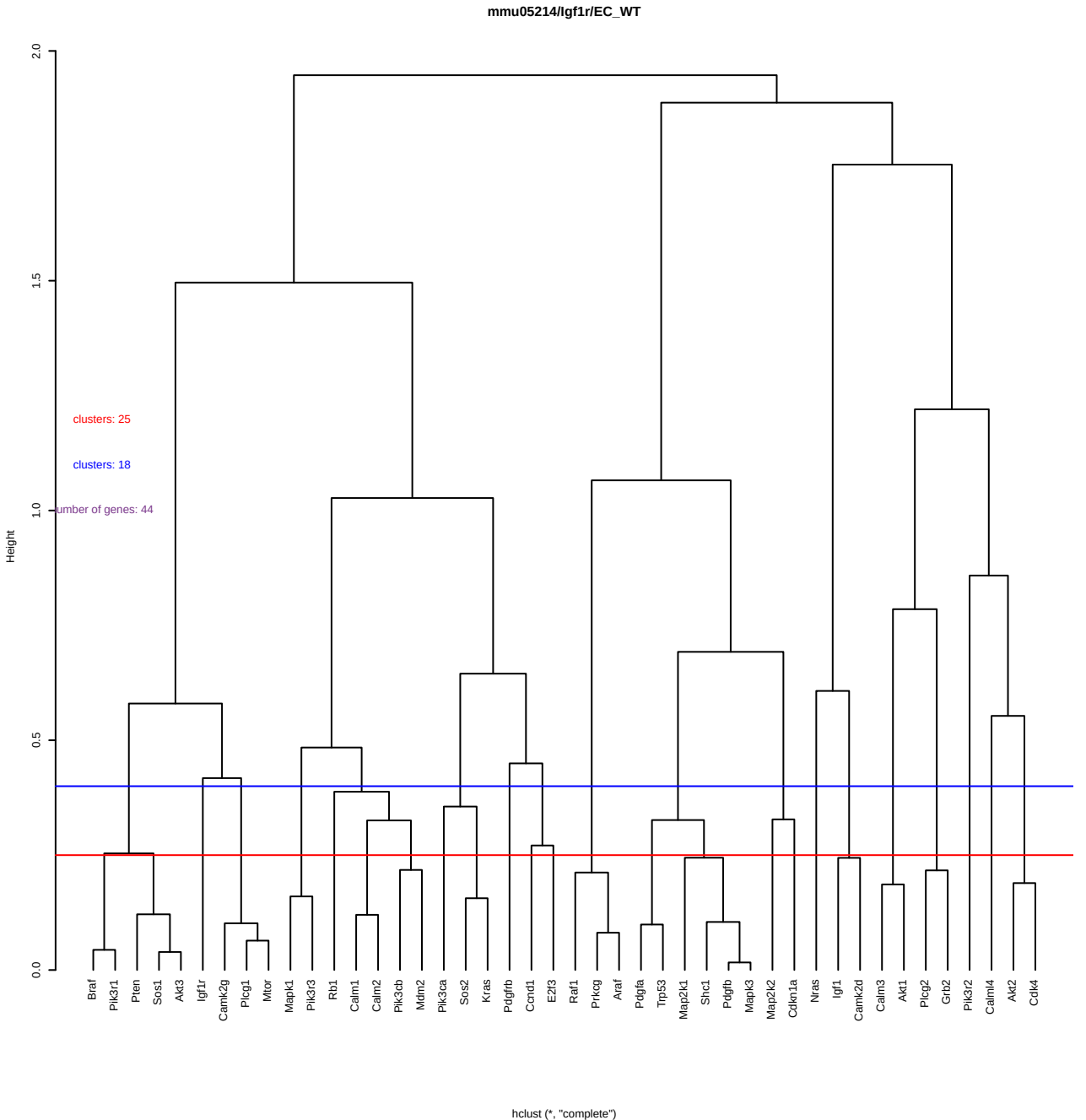

mmu05205/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 49
clusters: 36
nber of genes: 137
hclust (*, "complete")

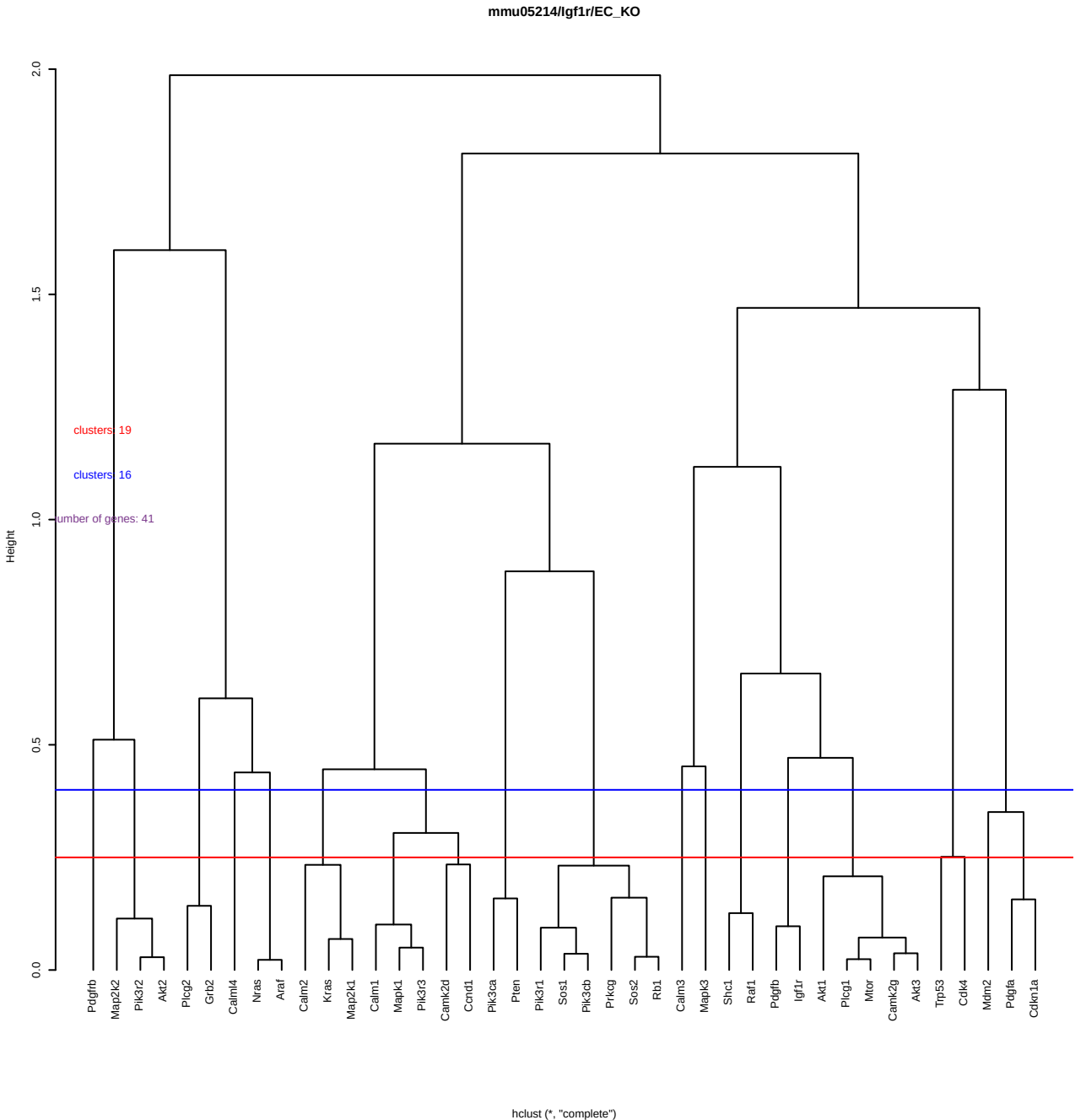


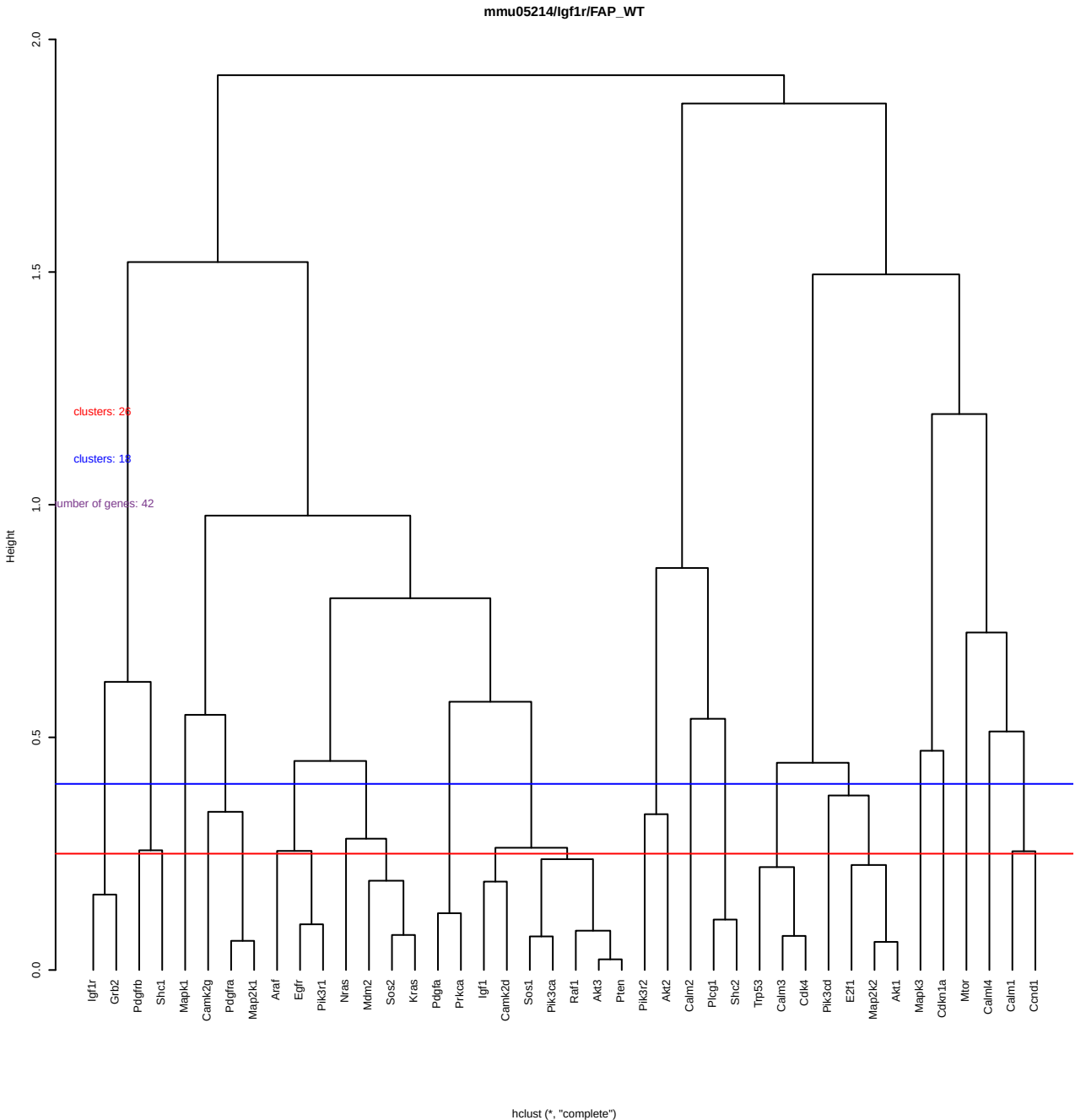
hclust (*, "complete")

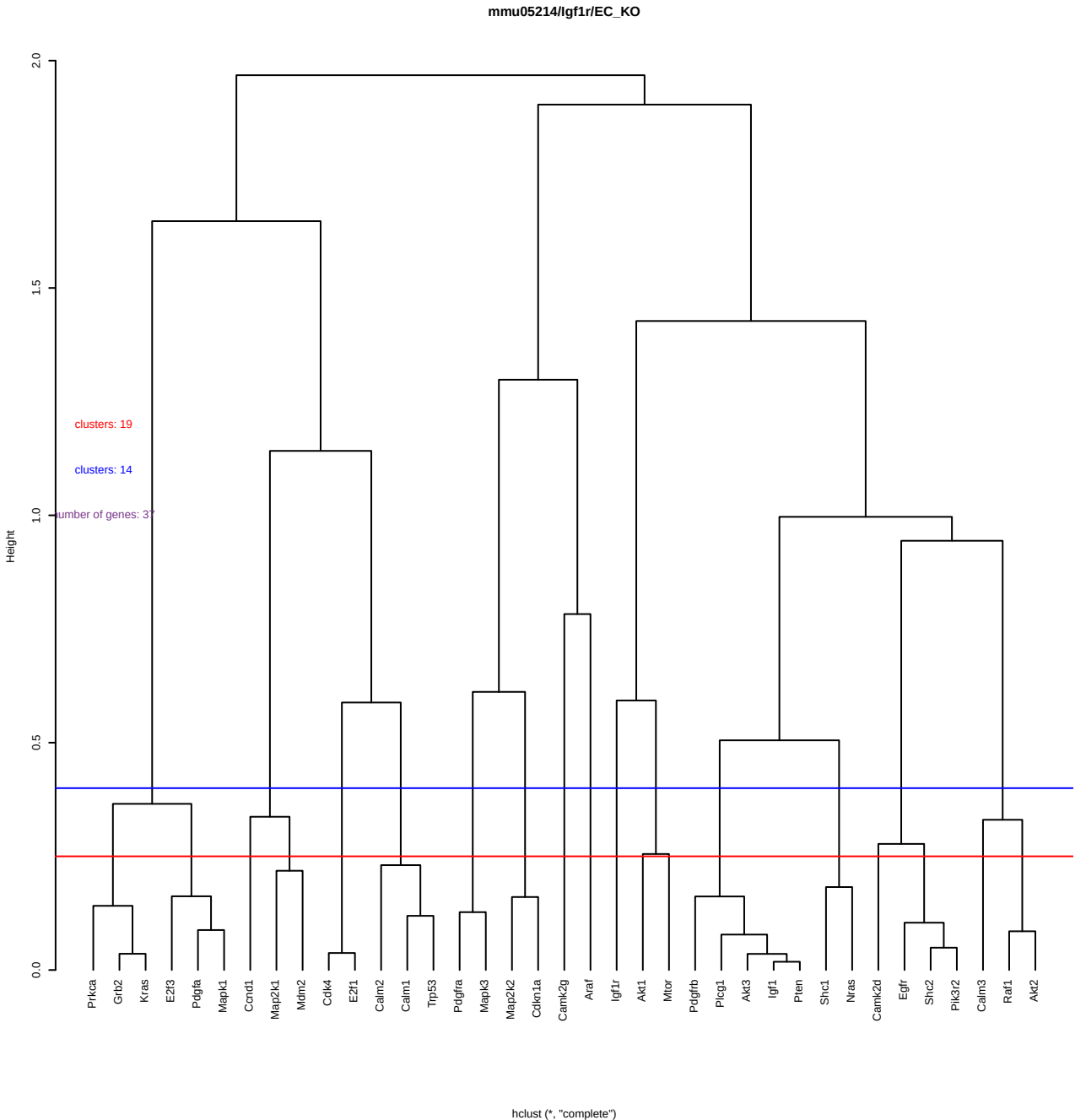

mmu05205/Igf1r/FAP_WT
clusters: 59
clusters: 40
nber of genes: 141
Height
0.0
0.5
1.0
1.5
2.0
hclust (*, "complete")

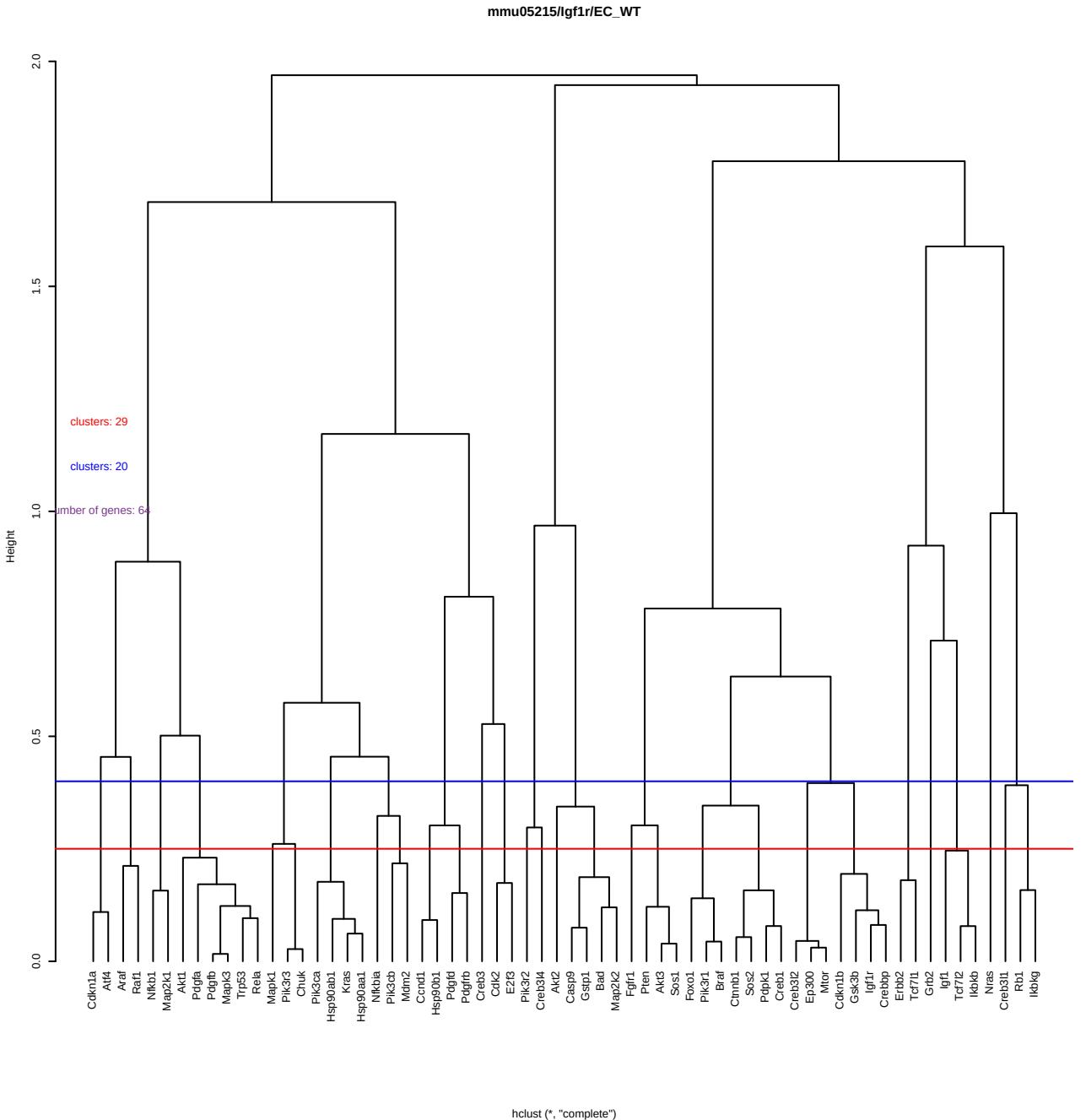

mmu05205/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 39
clusters: 29
nber of genes: 127
hclust (*, "complete")

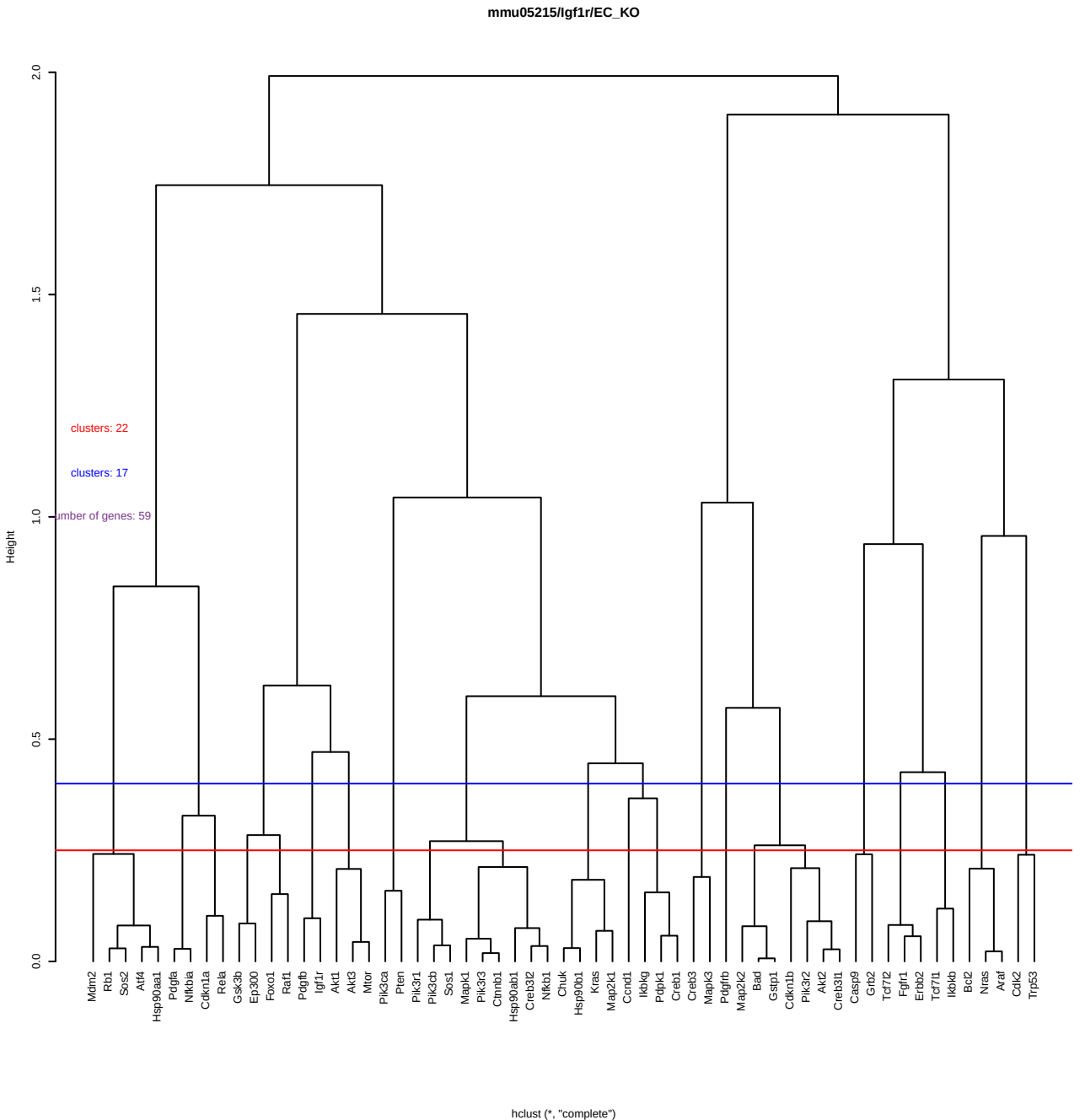

mmu05214/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 25
clusters: 18
umber of genes: 44
Braf
Pik3r1
Pten
Sos1
Akt3
Igf1r
Camk2g
Plcg1
Mtor
Mapk1
Pik3r3
Rb1
Calm1
Calm2
Pik3cb
Mdm2
Pik3ca
Sos2
Kras
Pdgfrb
Ccnd1
E2f3
Raf1
Prkcg
Araf
Pdgfa
Trp53
Map2k1
Shc1
Pdgfb
Mapk3
Map2k2
Cdkn1a
Nras
Igf1
Camk2d
Calm3
Akt1
Plcg2
Grb2
Pik3r2
Caml4
Akt2
Cdk4
hclust (*, "complete")

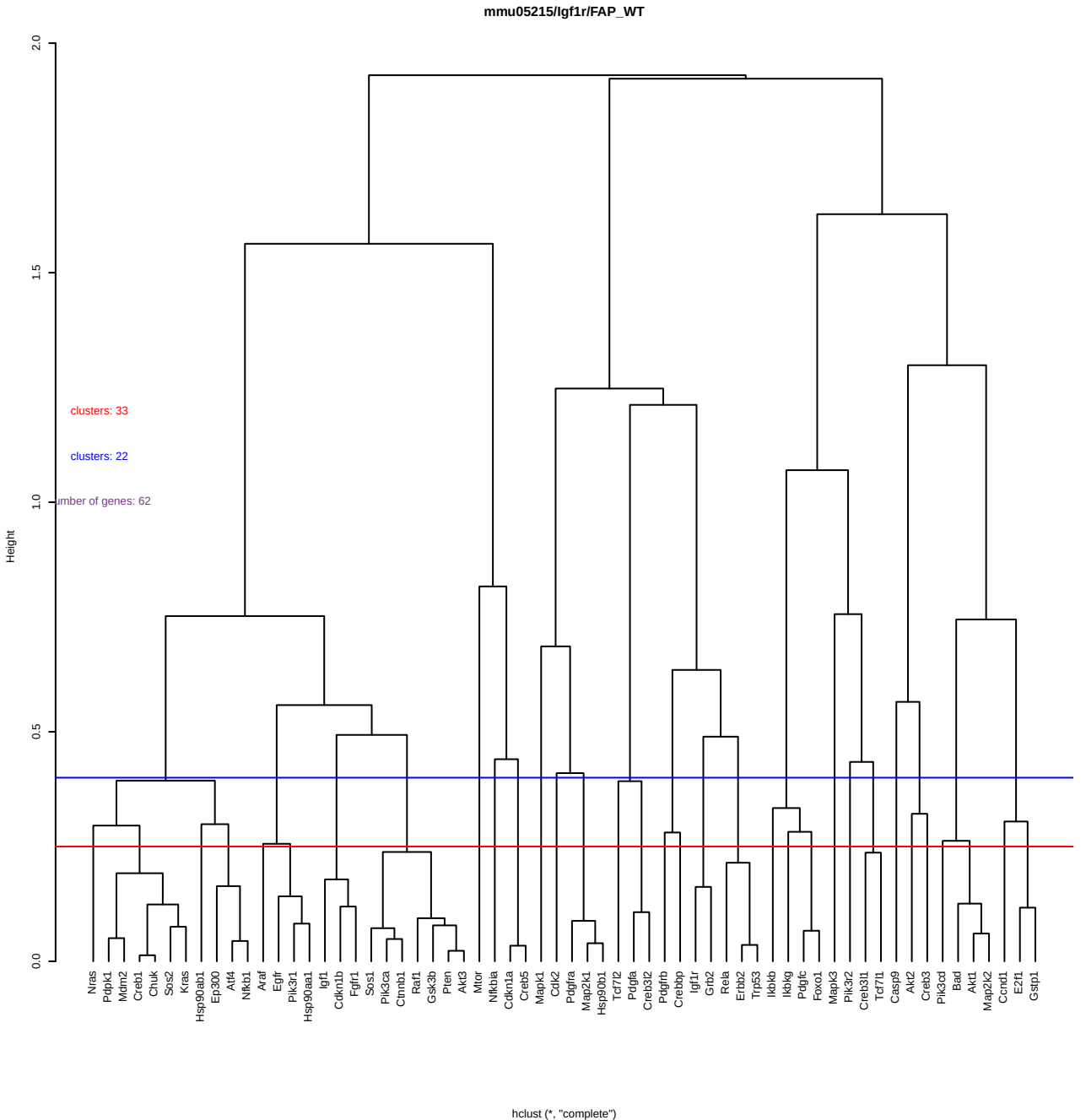

mmu05214/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 19
clusters: 16
umber of genes: 41
Pdgfrb
Map2k2
Pik3r2
Akt2
Plcg2
Grb2
Calml4
Nras
Araf
Calm2
Kras
Map2k1
Calm1
Mapk1
Pik3r3
Camk2d
Ccnd1
Pik3ca
Pten
Pik3r1
Sos1
Pik3cb
Prkcg
Sos2
Rb1
Calm3
Mapk3
Shc1
Raf1
Pdgfb
Igf1r
Akt1
Plcg1
Mtor
Camk2g
Akt3
Trp53
Cdk4
Mdm2
Pdgfa
Cdkn1a
hclust (*, "complete")

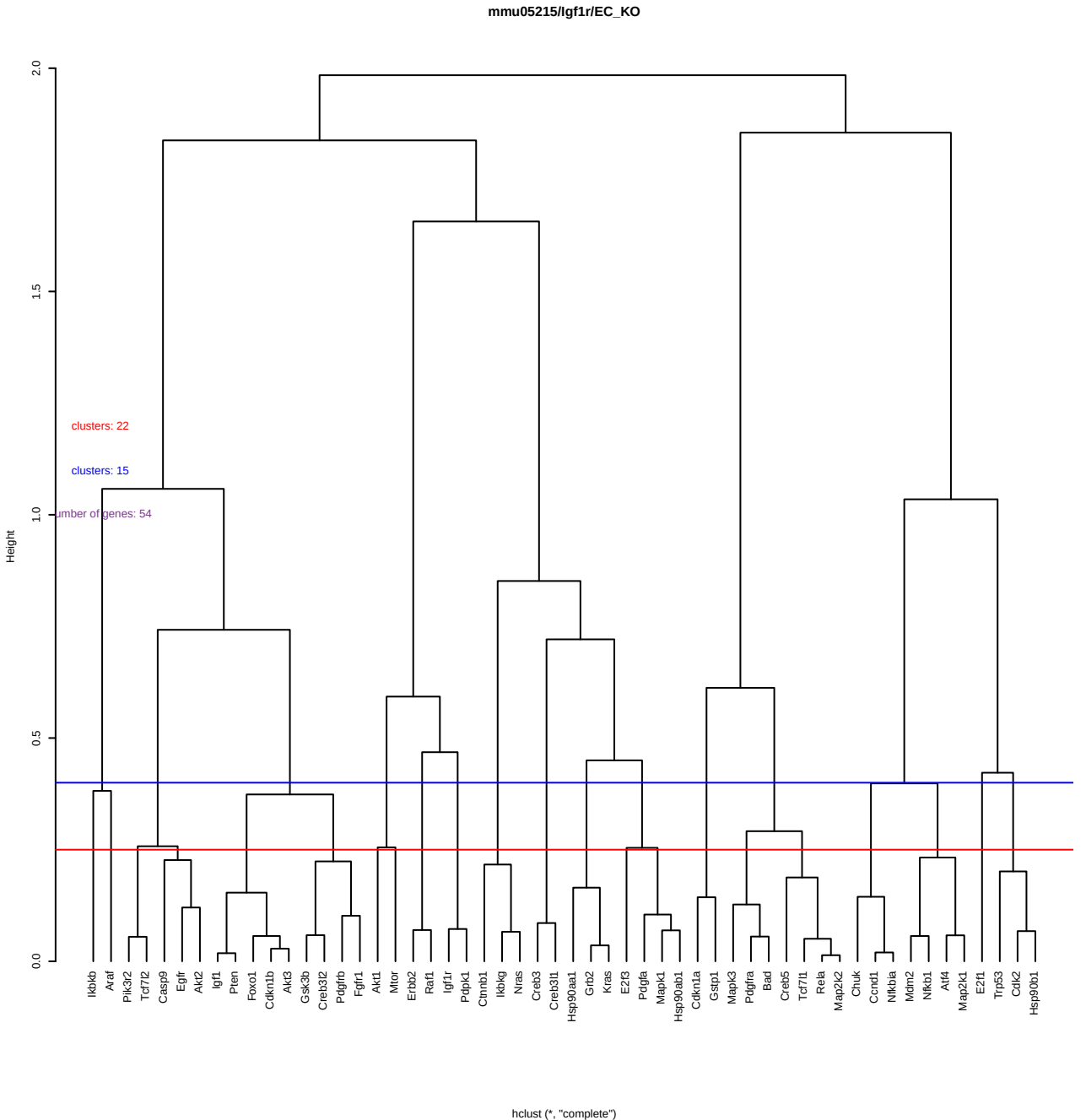

mmu05214/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 26
clusters: 18
umber of genes: 42
Igf1r
Grb2
Pdgfrb
Shc1
Mapk1
Camk2g
Pdgfra
Map2k1
Araf
Egfr
Pik3r1
Nras
Mdm2
Sos2
Kras
Pdgfa
Prkca
Igf1
Camk2d
Sos1
Pik3ca
Raf1
Akt3
Pten
Pik3r2
Akt2
Calm2
Plcg1
Shc2
Trp53
Calm3
Cdk4
Pik3cd
E2f1
Map2k2
Akt1
Mapk3
Cdkn1a
Mtor
Calml4
Calm1
Ccnd1
hclust (*, "complete")

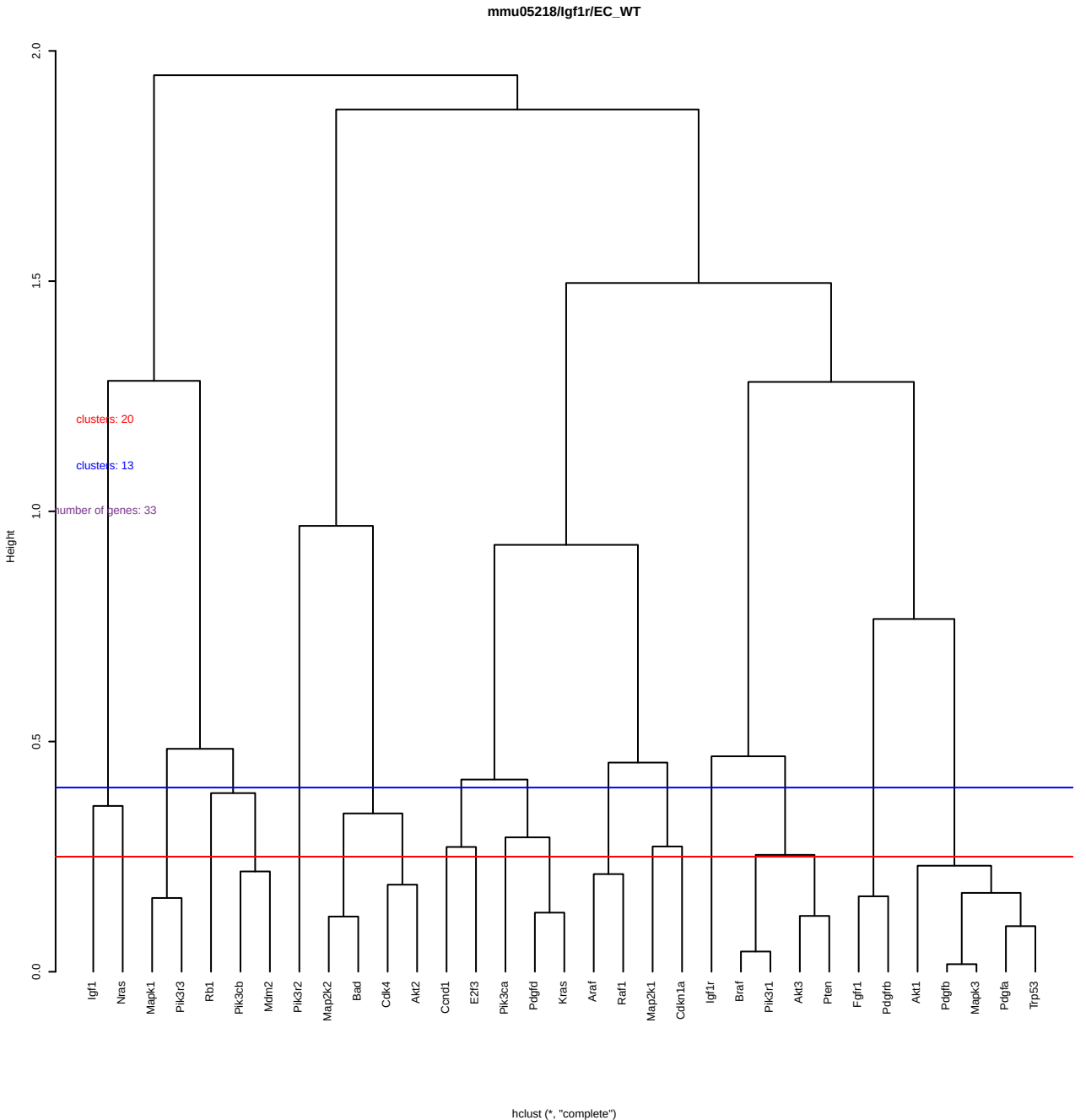

mmu05214/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 19
clusters: 14
umber of genes: 37
Prkca
Grb2
Kras
E2f3
Pdgfa
Mapk1
Ccnd1
Map2k1
Mdm2
Cdk4
E2f1
Calm2
Calm1
Trp53
Pdgfra
Mapk3
Map2k2
Cdkn1a
Camk2g
Araf
Igf1r
Akt1
Mtor
Pdgfrb
Plcg1
Akt3
Igf1
Pten
Shc1
Nras
Camk2d
Egfr
Shc2
Pik3r2
Calm3
Raf1
Akt2
hclust (*, "complete")

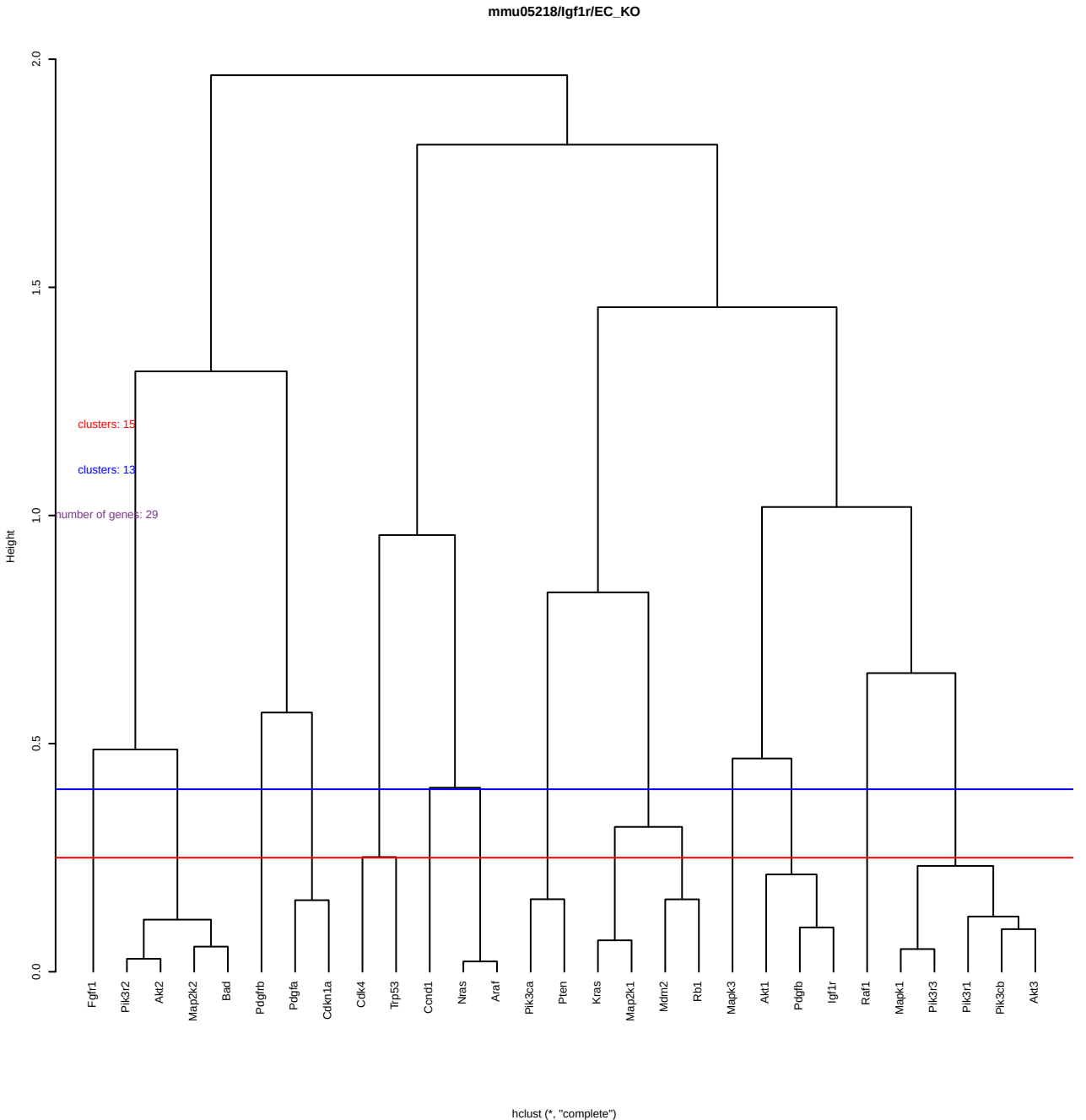

mmu05215/Igf1r/EC_WT
Height
0.0
0.5
1.0
1.5
2.0
clusters: 29
clusters: 20
mber of genes: 64
Cdkn1a
Atf4
Araf
Raf1
Nfkb1
Map2k1
Akt1
Pdgfa
Pdgfb
Mapk3
Trp53
Rela
Mapk1
Pik3r3
Chuk
Pik3ca
Hsp90ab1
Kras
Hsp90aa1
Nfkbia
Pik3cb
Mdm2
Ccnd1
Hsp90b1
Pdgfd
Pdgfrb
Creb3
Cdk2
E2f3
Pik3r2
Creb3l4
Akt2
Casp9
Gstp1
Bad
Map2k2
Fgfr1
Pten
Akt3
Sos1
Foxo1
Pik3r1
Braf
Ctnnb1
Sos2
Pdpk1
Creb1
Creb3l2
Ep300
Mtor
Cdkn1b
Gsk3b
Igf1r
Crebbp
Erbb2
Tcf7l1
Grb2
Igf1
Tcf7l2
Ikbkb
Nras
Creb3l1
Rb1
Ikbkg
hclust (*, "complete")

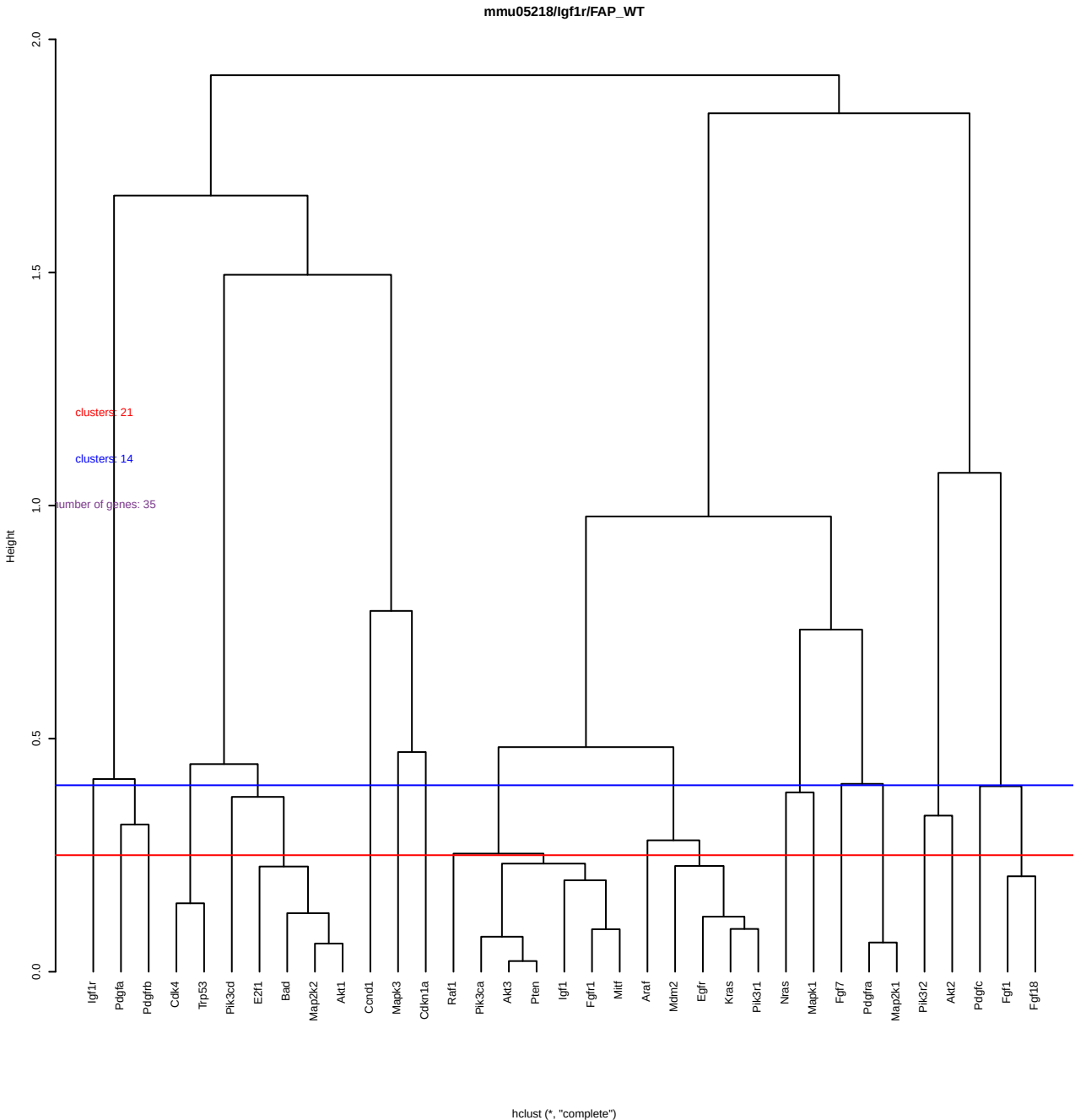

mmu05215/Igf1r/EC_KO
Height
0.0
0.5
1.0
1.5
2.0
clusters: 22
clusters: 17
umber of genes: 59
Mdm2
Rb1
Sos2
Atf4
Hsp90aa1
Pdgfa
Nfkbia
Cdkn1a
Rela
Gsk3b
Ep300
Foxo1
Raf1
Pdgfb
Igf1r
Akt1
Akt3
Mtor
Pik3ca
Pten
Pik3r1
Pik3cb
Sos1
Mapk1
Pik3r3
Cnnb1
Hsp90ab1
Creb3l2
Nfkb1
Chuk
Hsp90b1
Kras
Map2k1
Ccnd1
Ikbkg
Pdpk1
Creb1
Creb3
Mapk3
Pdgfrb
Map2k2
Bad
Gstp1
Cdkn1b
Pik3r2
Akt2
Creb3l1
Casp9
Grb2
Tcf7l2
Fgfr1
Erbb2
Tcf7l1
Ikbkb
Bcl2
Nras
Araf
Cdk2
Trp53
hclust (*, "complete")

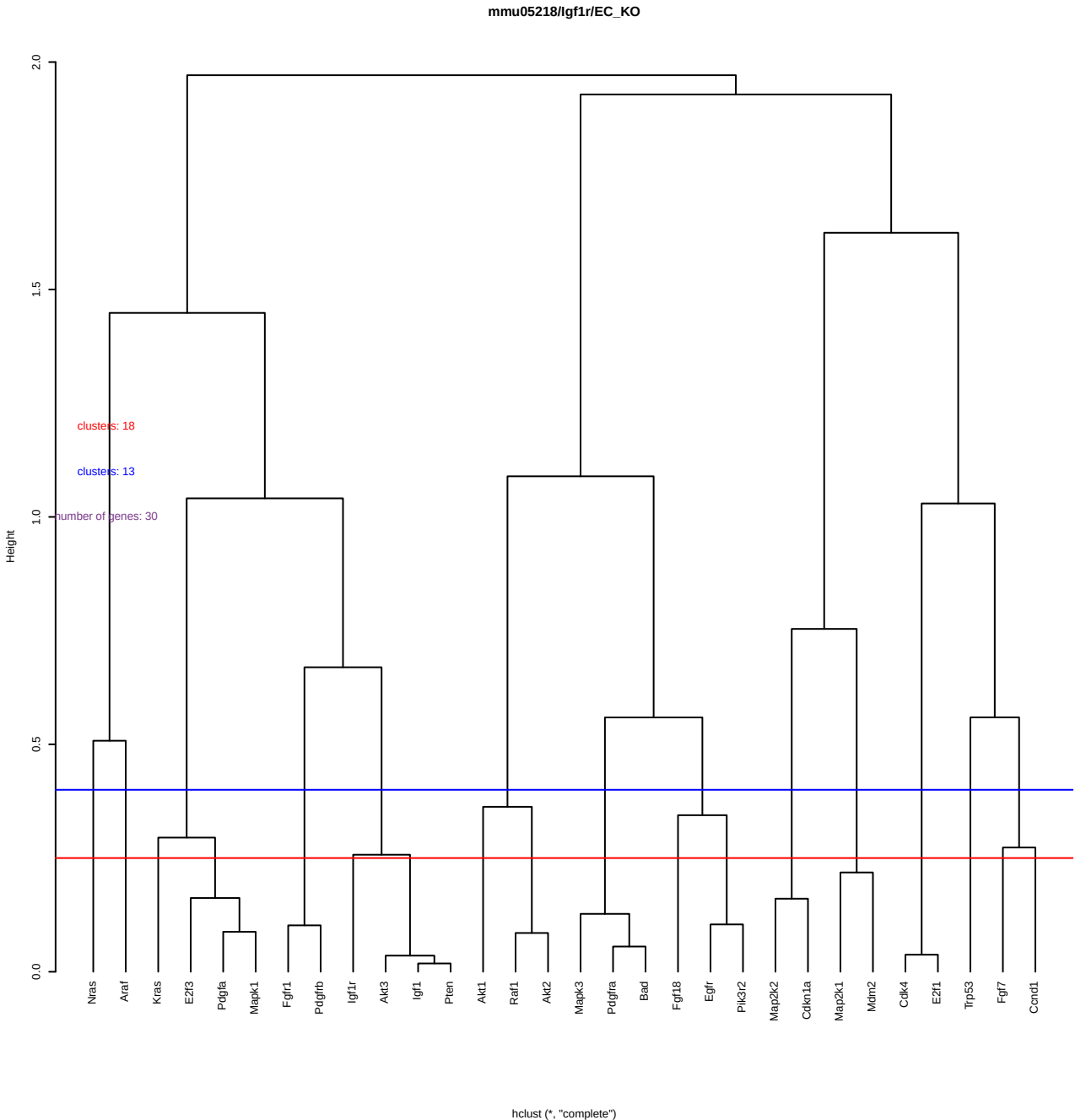

mmu05215/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 33
clusters: 22
umber of genes: 62
Nras
Pdpk1
Mdm2
Creb1
Chuk
Sos2
Kras
Hsp90ab1
Ep300
Atf4
Nfkb1
Araf
Egfr
Pik3r1
Hsp90aa1
Igf1
Cdkn1b
Fgfr1
Sos1
Pik3ca
Ctnnb1
Raf1
Gsk3b
Pten
Akt3
Mtor
Nfkbia
Cdkn1a
Creb5
Mapk1
Cdk2
Pdgfra
Map2k1
Hsp90b1
Tcf7l2
Pdgfa
Creb3l2
Pdgfrb
Crebbp
Igf1r
Grb2
Rela
Erbb2
Trp53
Ikbkb
Ikbkg
Pdgfc
Foxo1
Mapk3
Pik3r2
Creb3l1
Tcf7l1
Casp9
Akt2
Creb3
Pik3cd
Bad
Akt1
Map2k2
Ccnd1
E2f1
Gstp1
hclust (*, "complete")


mmu05215/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 22
clusters: 15
umber of genes: 54
Ikbkb
Araf
Pik3r2
Tcf7l2
Casp9
Egfr
Akt2
Igf1
Pten
Foxo1
Cdkn1b
Akt3
Gsk3b
Creb3l2
Pdgfrb
Fgfr1
Akt1
Mtor
Erbb2
Raf1
Igf1r
Pdpk1
Ctnnb1
Ikbkg
Nras
Creb3
Creb3l1
Hsp90aa1
Grb2
Kras
E2f3
Pdgfa
Mapk1
Hsp90ab1
Cdkn1a
Gstp1
Mapk3
Pdgfra
Bad
Creb5
Tcf7l1
Rela
Map2k2
Chuk
Ccnd1
Nfkbia
Mdm2
Nfkb1
Atf4
Map2k1
E2f1
Trp53
Cdk2
Hsp90b1
hclust (*, "complete")


mmu05218/Igf1r/EC_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 20
clusters: 13
number of genes: 33
Igf1
Nras
Mapk1
Pik3r3
Rb1
Pik3cb
Mdm2
Pik3r2
Map2k2
Bad
Cdk4
Akt2
Ccnd1
E2f3
Pik3ca
Pdgfd
Kras
Araf
Raf1
Map2k1
Cdkn1a
Igf1r
Braf
Pik3r1
Akt3
Pten
Fgfr1
Pdgfrb
Akt1
Pdgfb
Mapk3
Pdgfa
Trp53
hclust (*, "complete")


mmu05218/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 15
clusters: 13
number of genes: 29
Fgfr1
Pik3r2
Akt2
Map2k2
Bad
Pdgfrb
Pdgfa
Cdkn1a
Cdk4
Trp53
Ccnd1
Nras
Araf
Pik3ca
Pten
Kras
Map2k1
Mdm2
Rb1
Mapk3
Akt1
Pdgfb
Igf1r
Raf1
Mapk1
Pik3r3
Pik3r1
Pik3cb
Akt3
hclust (*, "complete")


mmu05218/Igf1r/FAP_WT
Height
2.0
1.5
1.0
0.5
0.0
clusters: 21
clusters: 14
number of genes: 35
Igf1r
Pdgfa
Pdgfrb
Cdk4
Trp53
Pik3cd
E2f1
Bad
Map2k2
Akt1
Ccnd1
Mapk3
Cdkn1a
Raf1
Pik3ca
Akt3
Pten
Igf1
Fgfr1
Mitf
Araf
Mdm2
Egfr
Kras
Pik3r1
Nras
Mapk1
Fgf7
Pdgfra
Map2k1
Pik3r2
Akt2
Pdgfc
Fgf1
Fgf18
hclust (*, "complete")


mmu05218/Igf1r/EC_KO
Height
2.0
1.5
1.0
0.5
0.0
clusters: 18
clusters: 13
number of genes: 30
Nras
Araf
Kras
E2f3
Pdgfa
Mapk1
Fgfr1
Pdgfrb
Igf1r
Akt3
Igf1
Pten
Akt1
Raf1
Akt2
Mapk3
Pdgfra
Bad
Fgf18
Egfr
Pik3r2
Map2k2
Cdkn1a
Map2k1
Mdm2
Cdk4
E2f1
Trp53
Fgf7
Ccnd1
hclust (*, "complete")