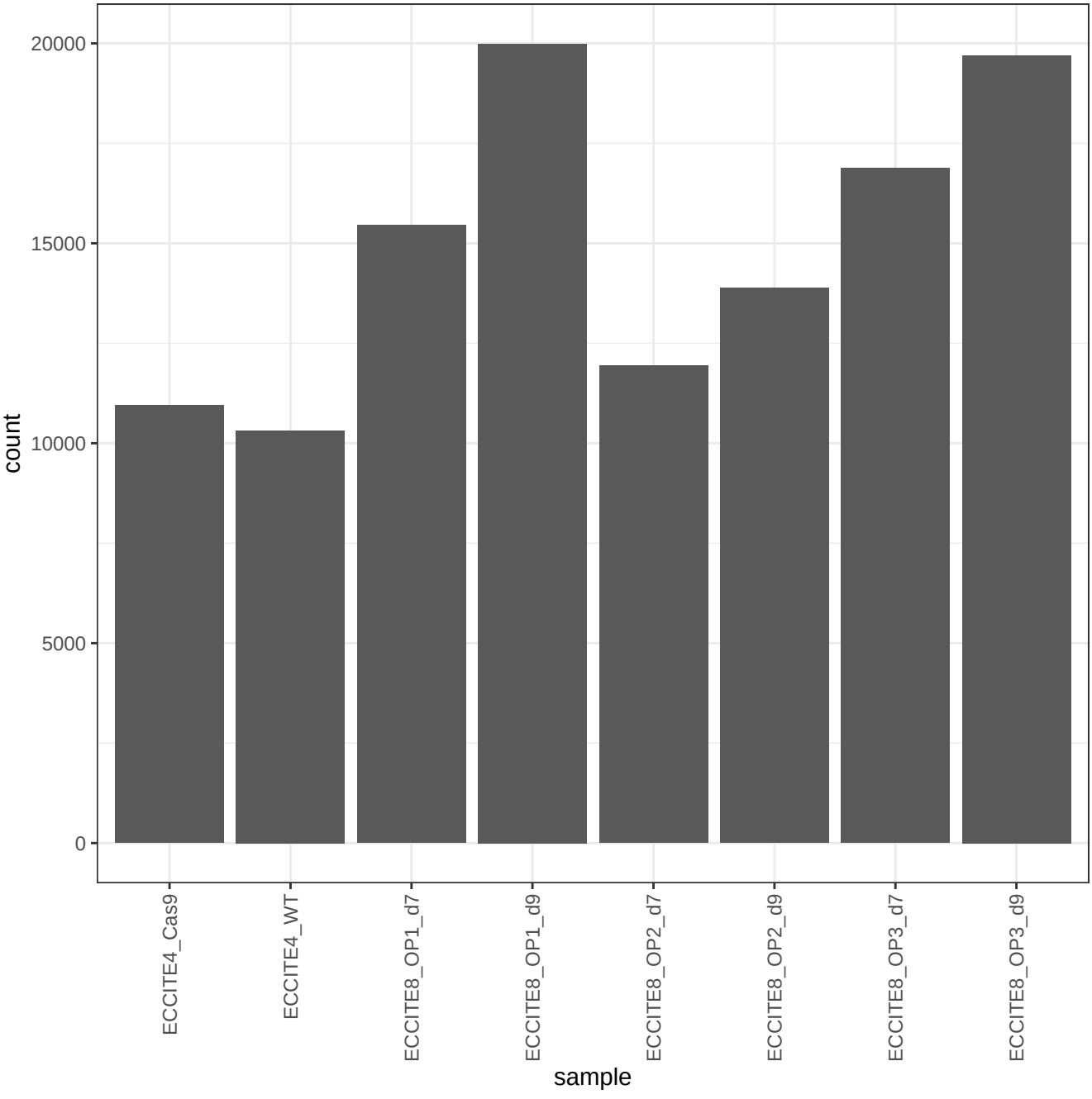
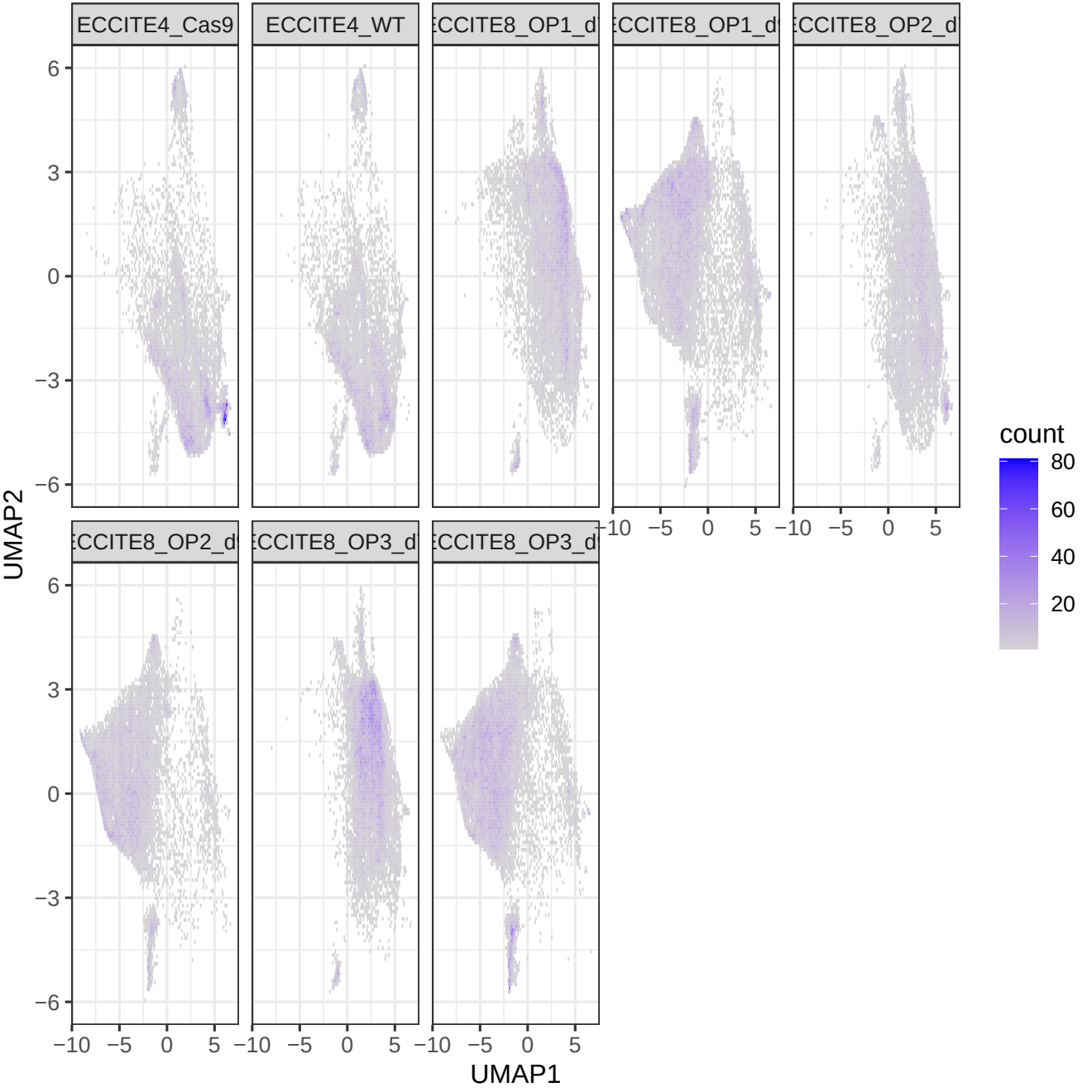
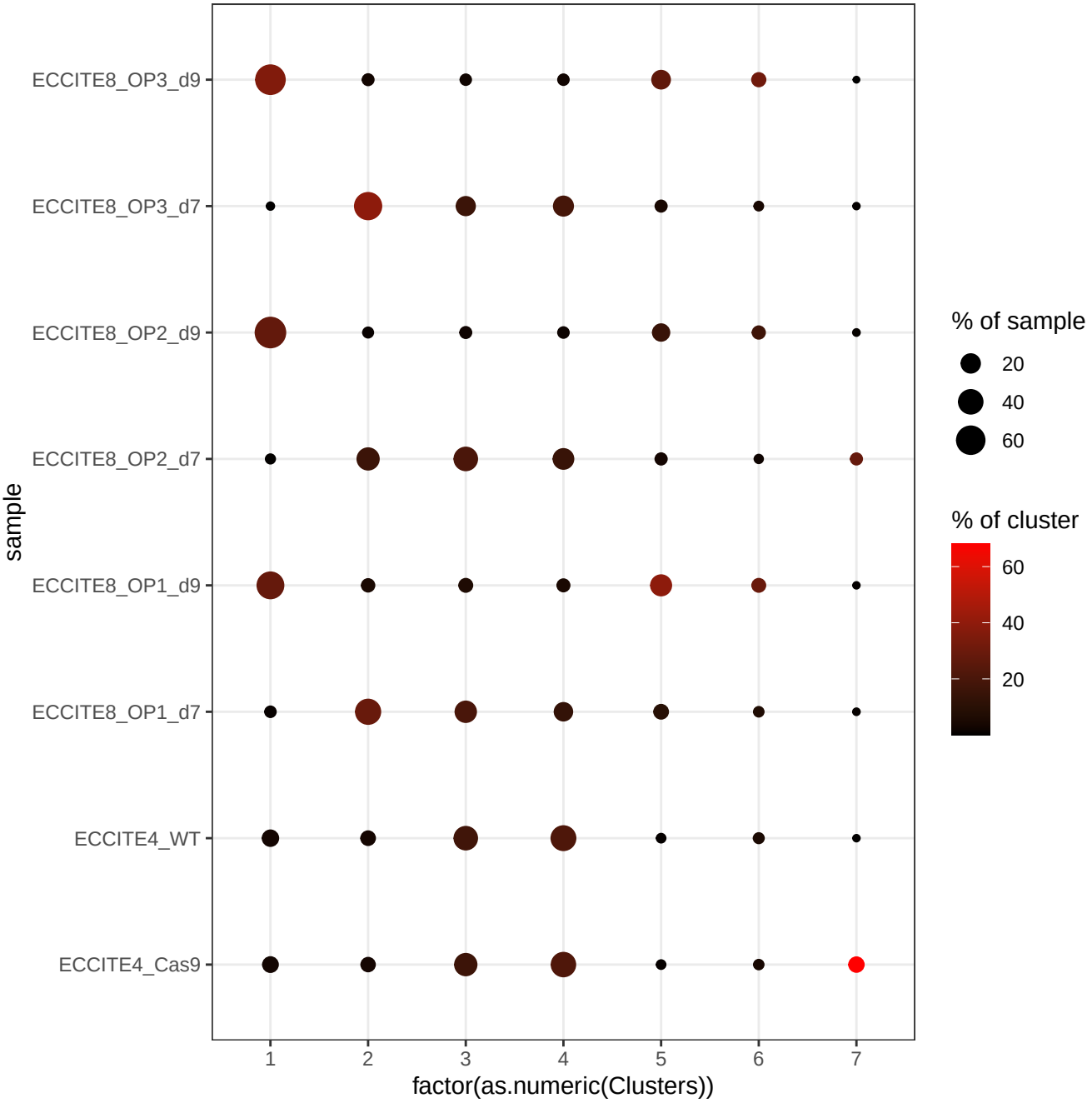
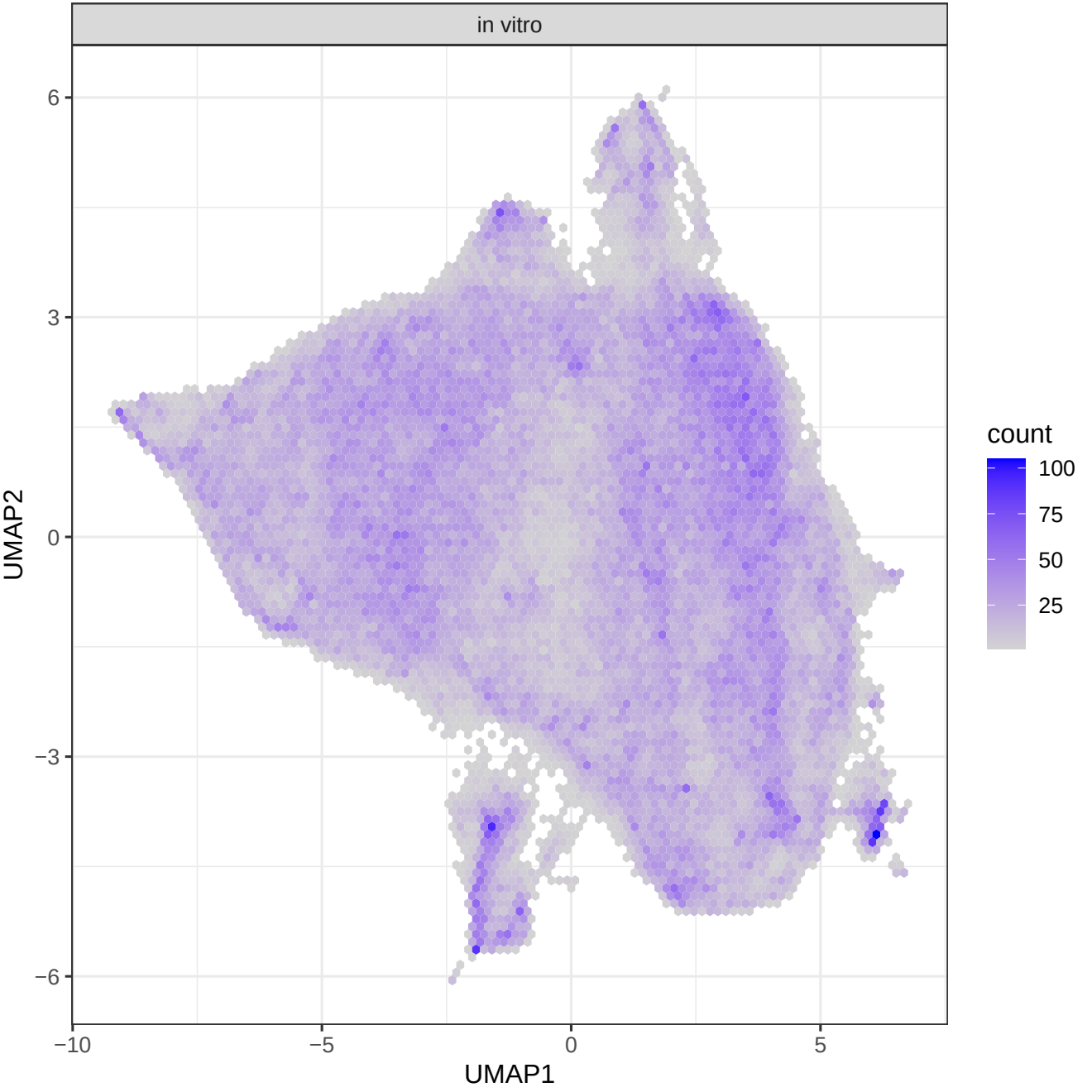
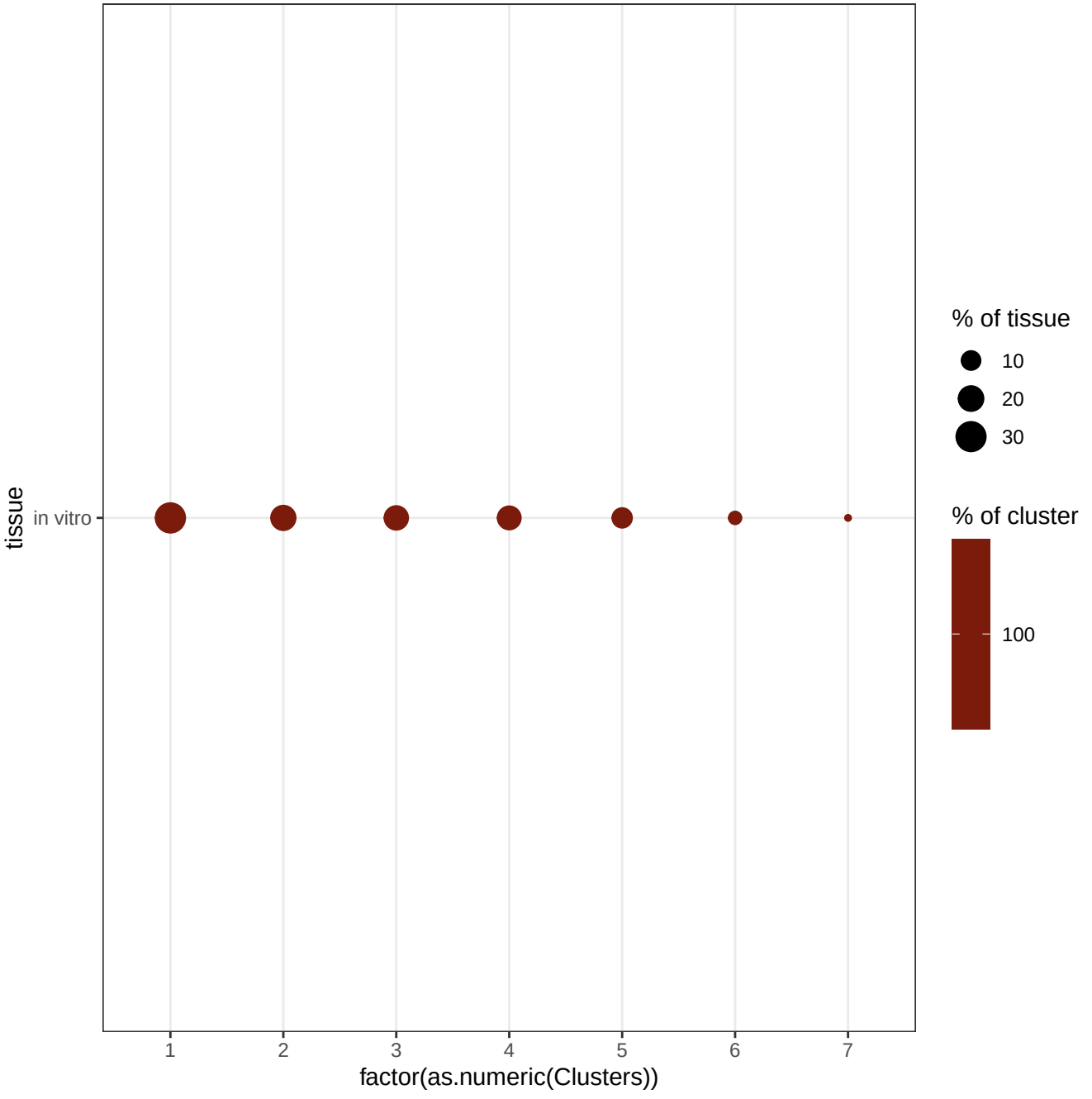
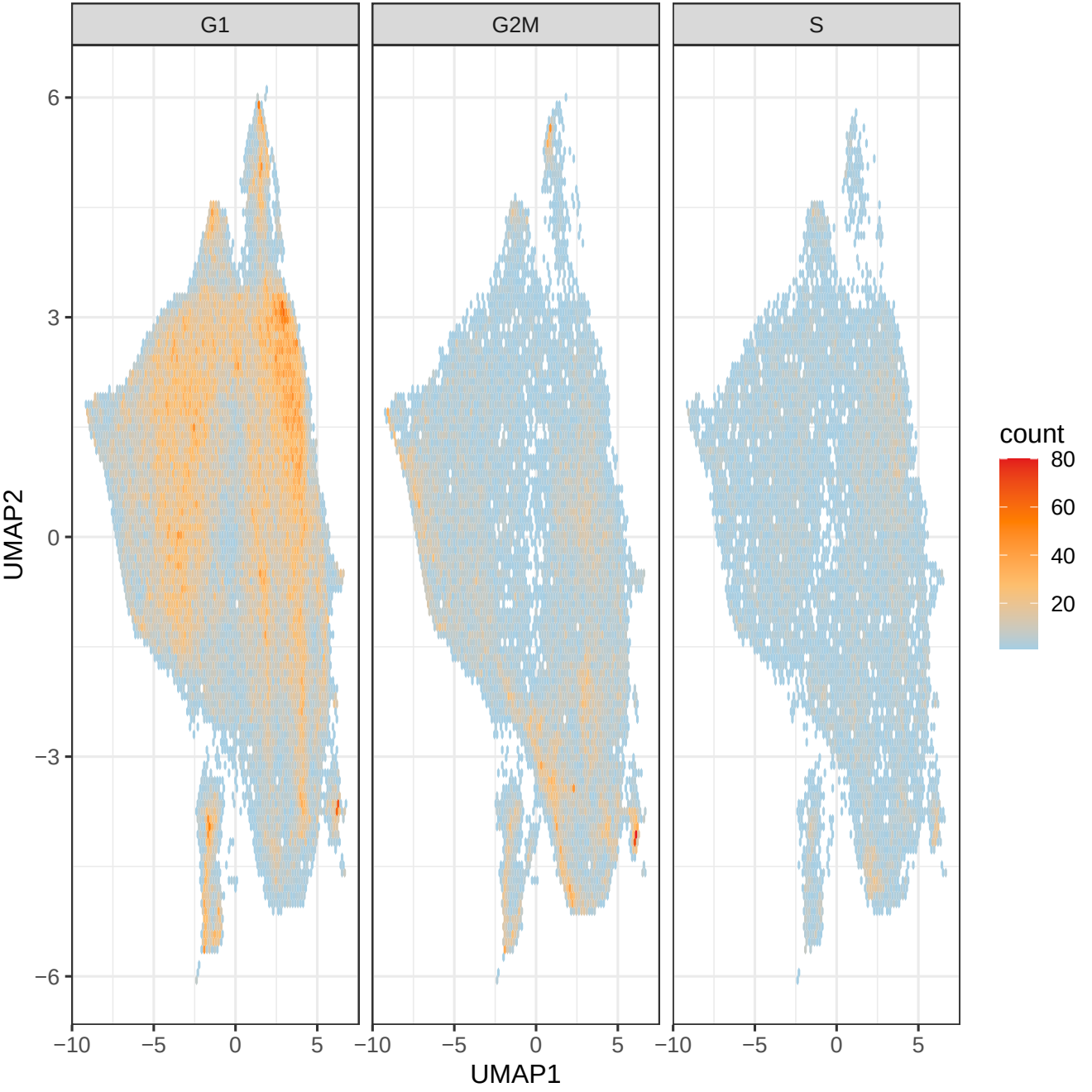

count
20000
15000
10000
5000
0
ECCITE4_Cas9
ECCITE4_WT
ECCITE8_OP1_d7
ECCITE8_OP1_d9
ECCITE8_OP2_d7
ECCITE8_OP2_d9
ECCITE8_OP3_d7
ECCITE8_OP3_d9
sample

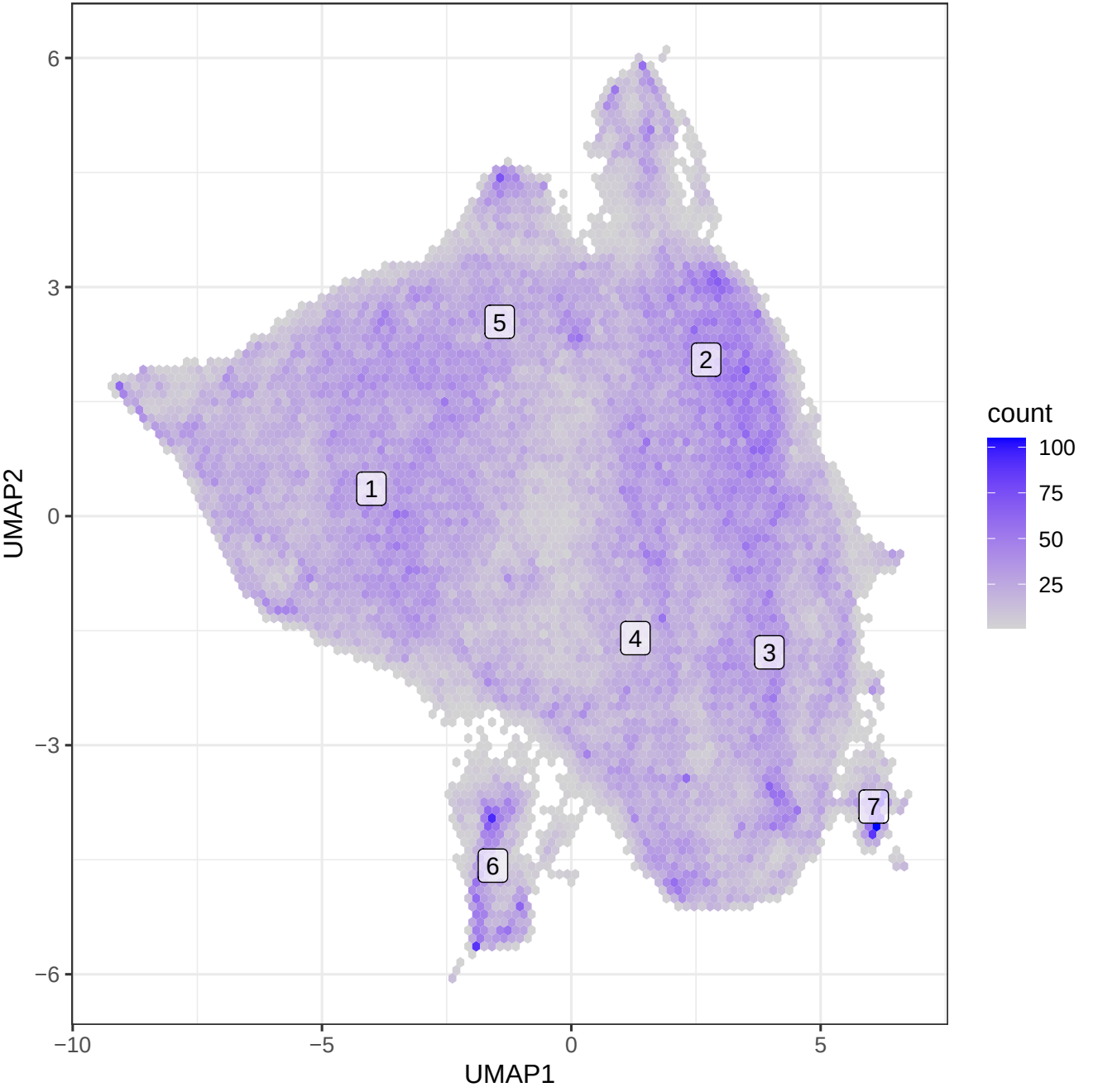

ECCITE4_Cas9
ECCITE4_WT
ECCITE8_OP1_d
ECCITE8_OP1_d
ECCITE8_OP2_d
ECCITE8_OP2_d
ECCITE8_OP3_d
ECCITE8_OP3_d
UMAP2
UMAP1
count
80
60
40
20
6
3
0
−3
−6
−10
−5
0
5

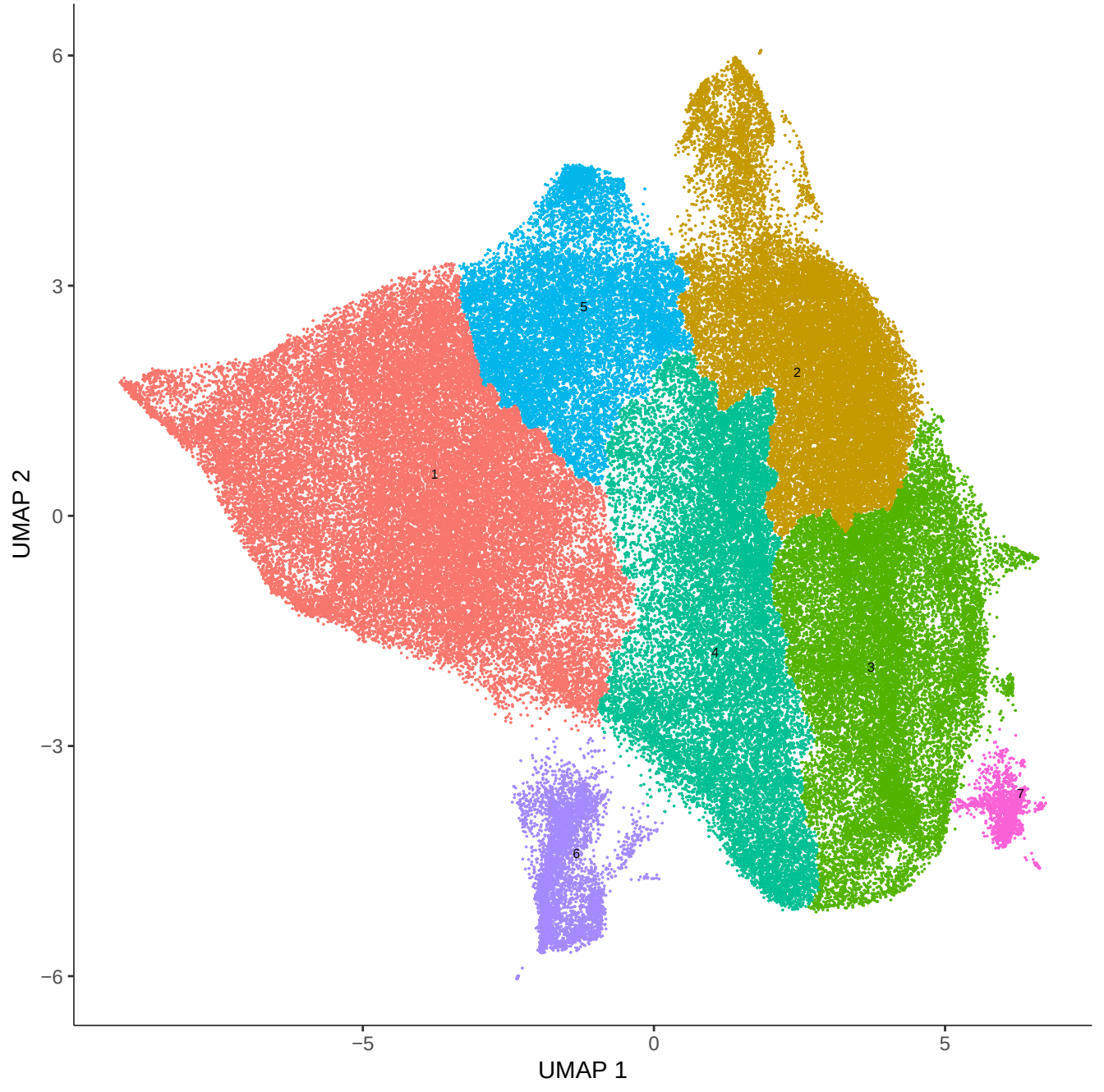

ECCITE8_OP3_d9
ECCITE8_OP3_d7
ECCITE8_OP2_d9
ECCITE8_OP2_d7
ECCITE8_OP1_d9
ECCITE8_OP1_d7
ECCITE4_WT
ECCITE4_Cas9
sample
1
2
3
4
5
6
7
factor(as.numeric(Clusters))
% of sample
20
40
60
% of cluster
60
40
20

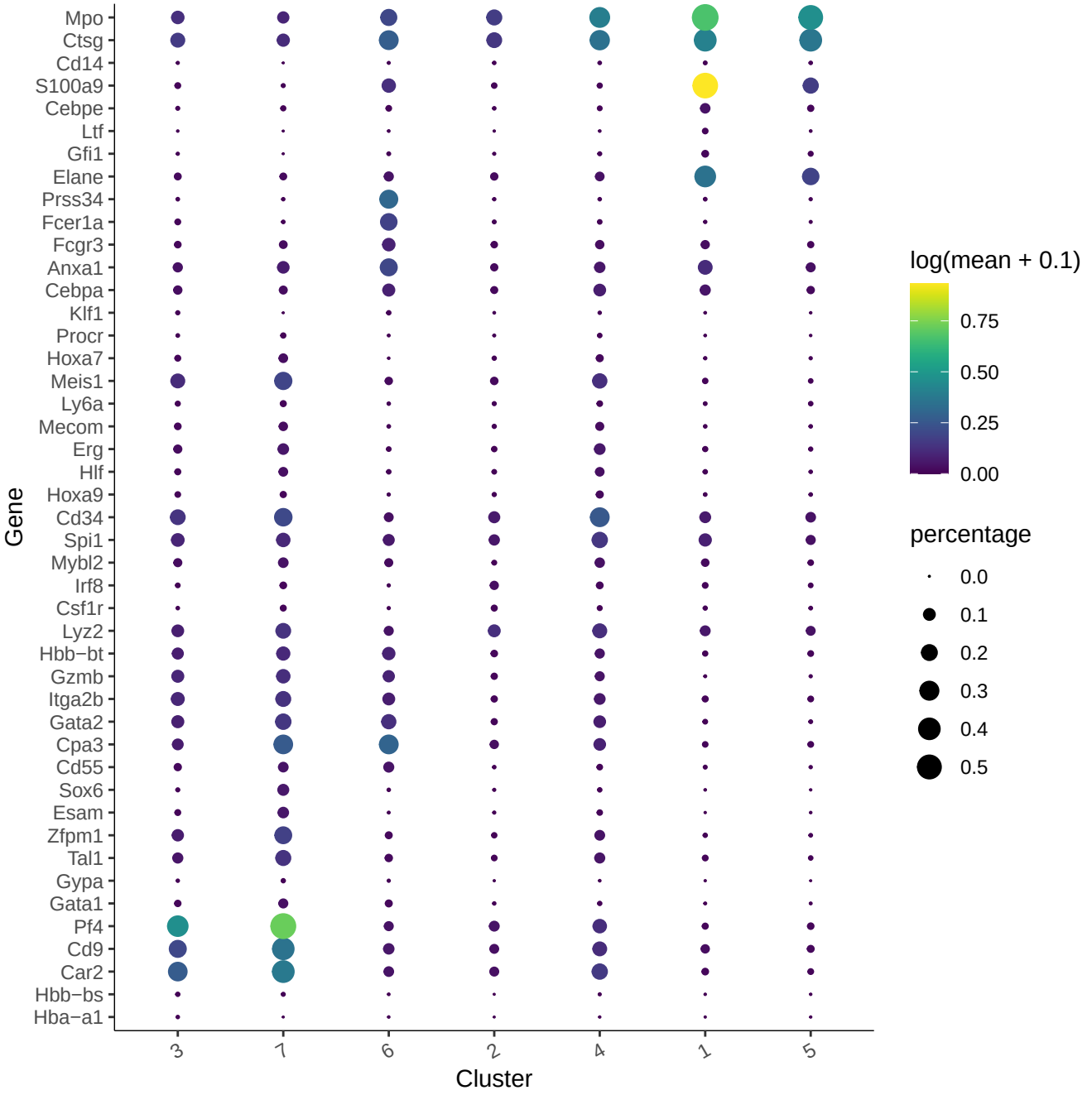

in vitro
6
3
0
−3
−6
UMAP2
−10
−5
0
5
UMAP1
count
100
75
50
25

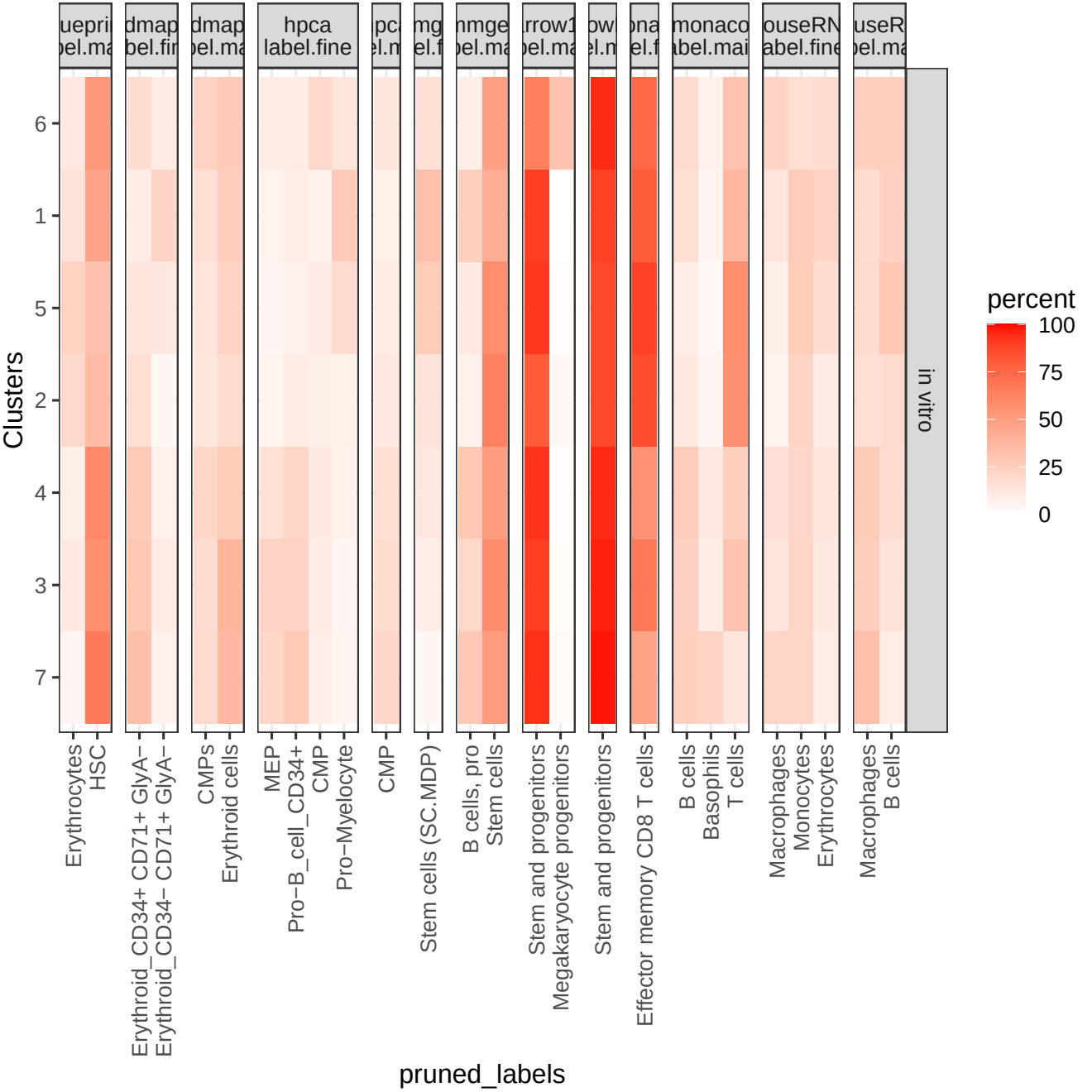

tissue
in vitro
1
2
3
4
5
6
7
factor(as.numeric(Clusters))
% of tissue
10
20
30
% of cluster
100

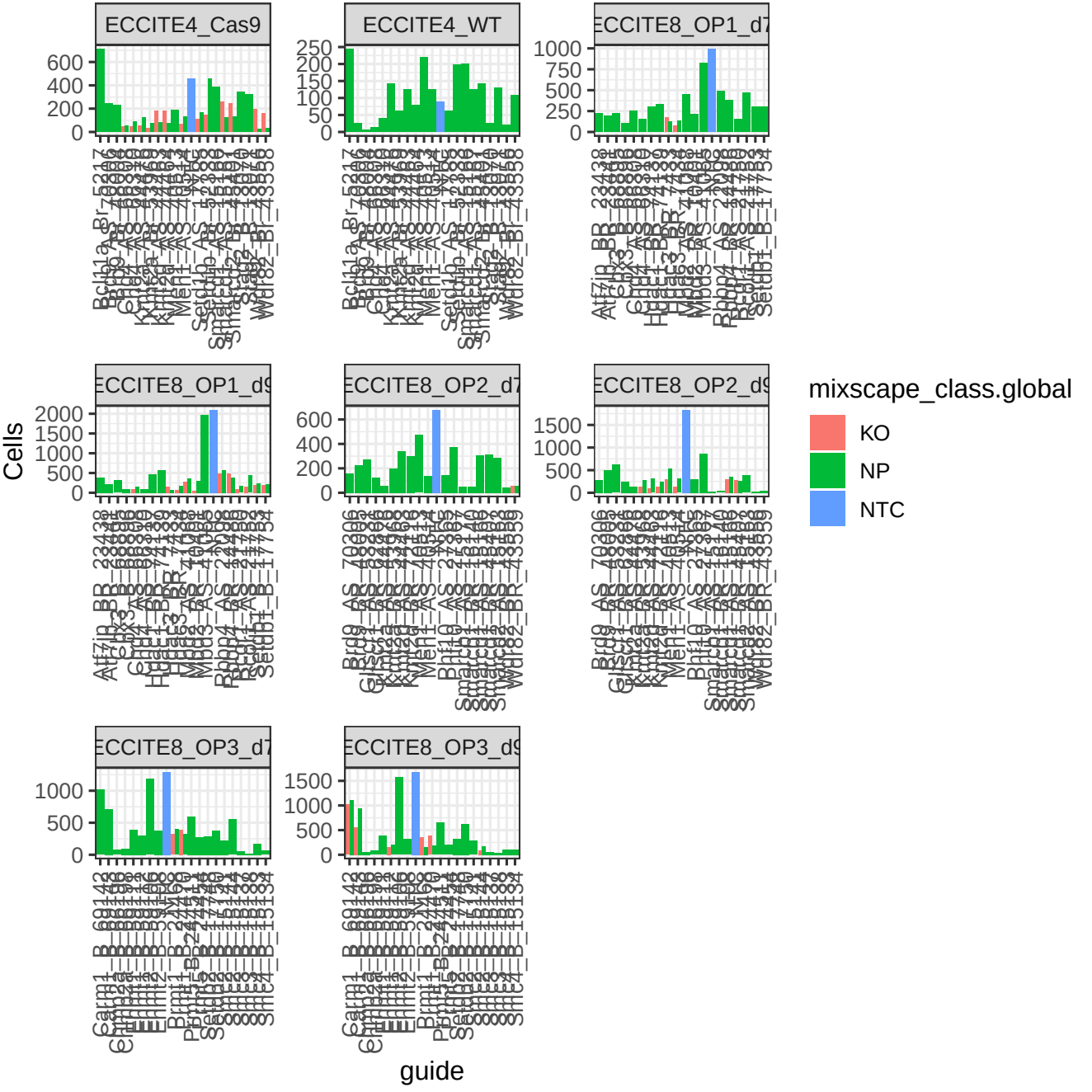

G1
G2M
S
UMAP2
UMAP1
6
3
0
−3
−6
−10
−5
0
5
count
80
60
40
20

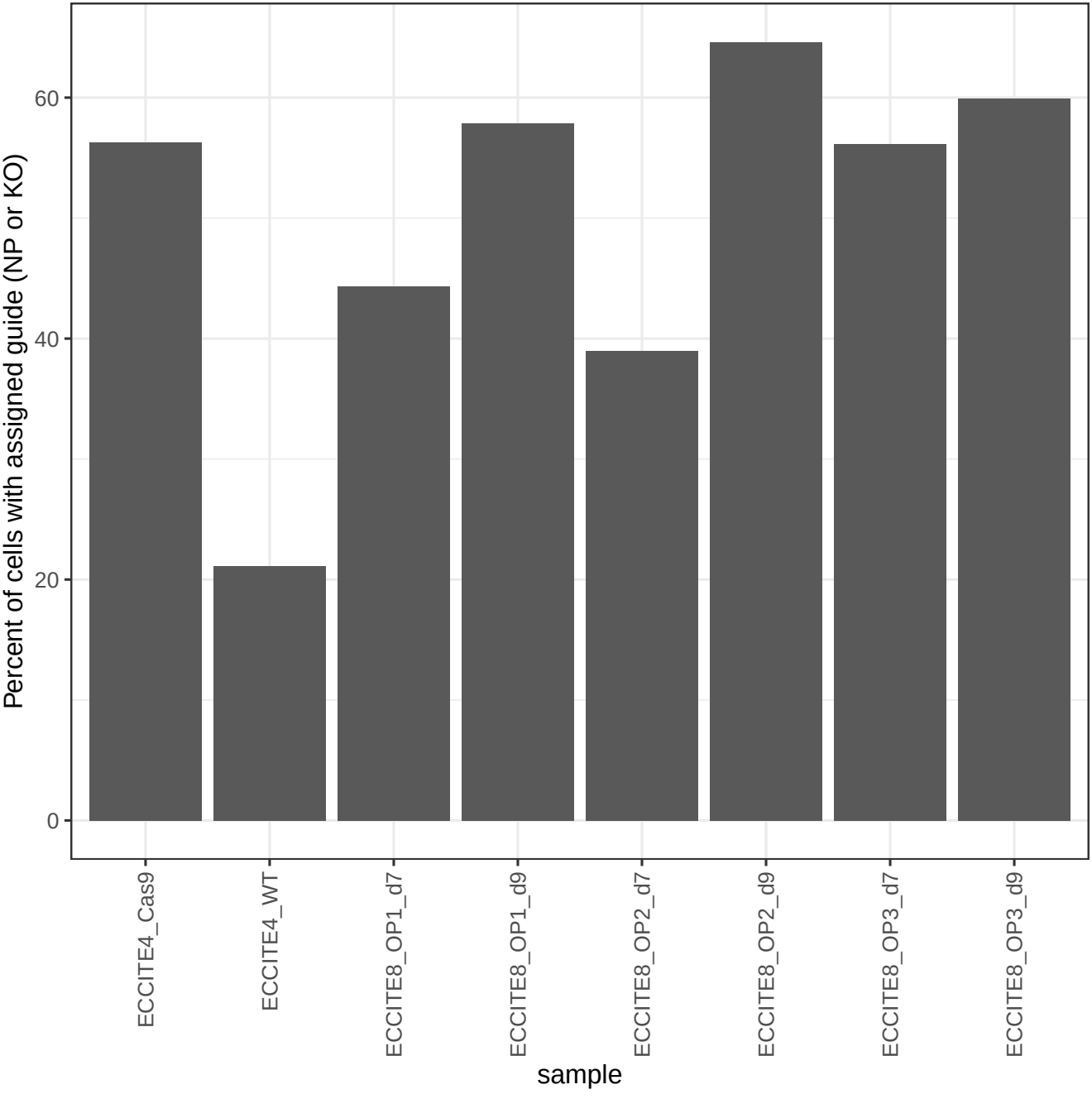

6
3
0
−3
−6
UMAP2
−10
−5
0
5
UMAP1
1
2
3
4
5
6
7
count
100
75
50
25

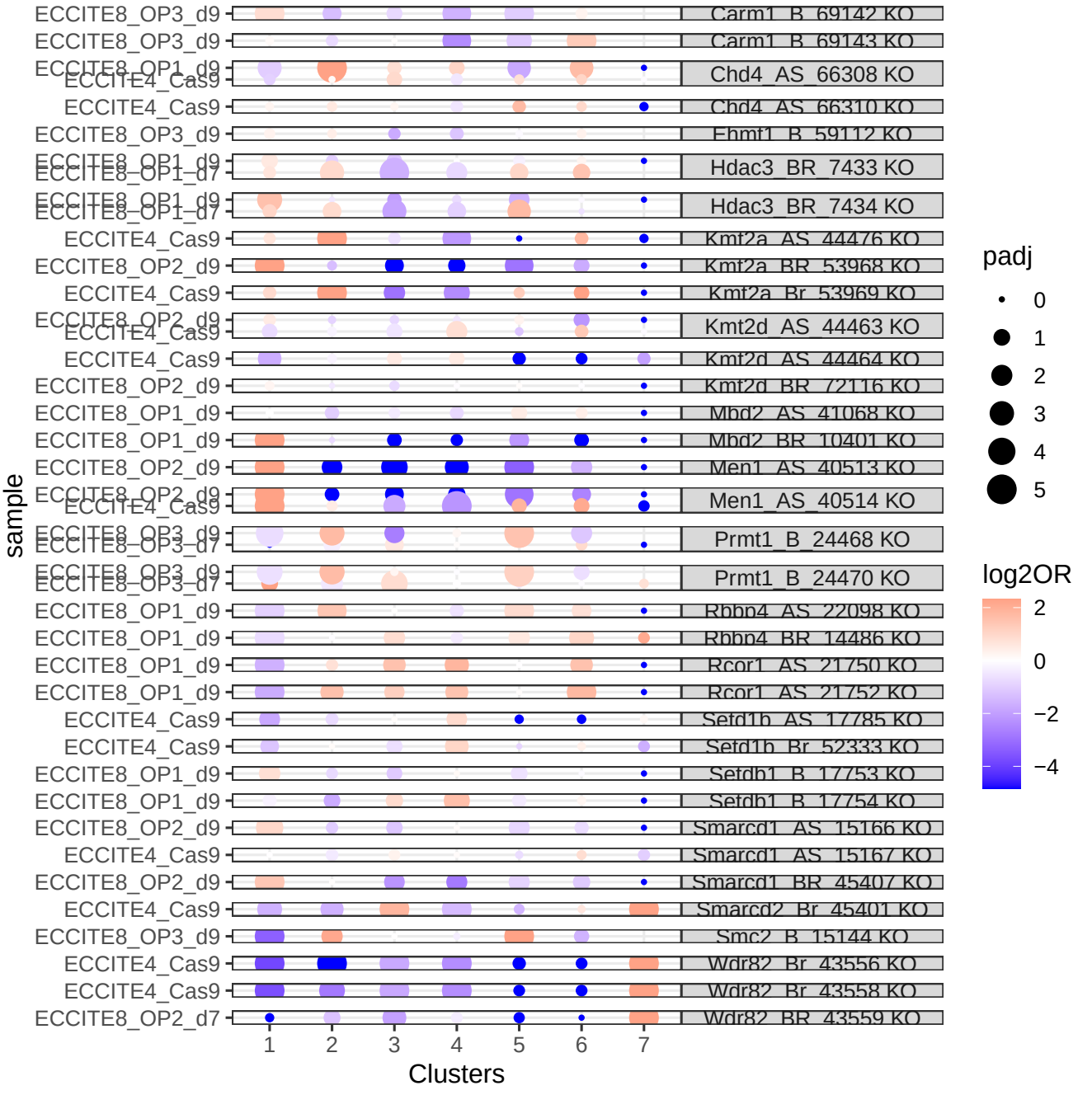

6
3
0
−3
−6
UMAP 2
−5
0
5
UMAP 1
1
2
3
4
5
6
7

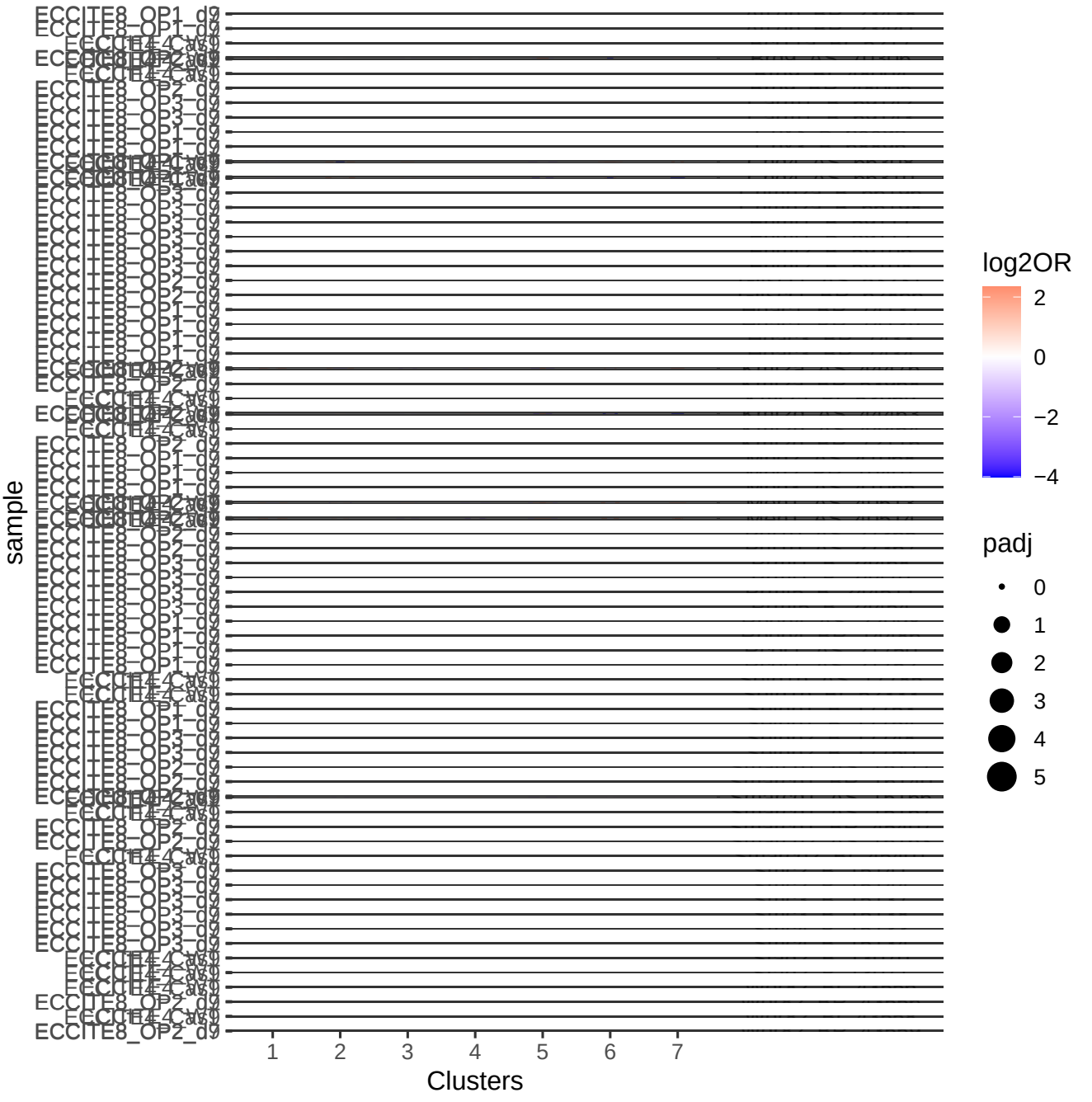

Mpo
Ctsg
Cd14
S100a9
Cebpe
Ltf
Gfi1
Elane
Prss34
Fcer1a
Fcgr3
Anxa1
Cebpa
Klf1
Procr
Hoxa7
Meis1
Ly6a
Mecom
Erg
Hlf
Hoxa9
Cd34
Spi1
Mybl2
Irf8
Csf1r
Lyz2
Hbb−bt
Gzmb
Itga2b
Gata2
Cpa3
Cd55
Sox6
Esam
Zfpm1
Tal1
Gypa
Gata1
Pf4
Cd9
Car2
Hbb−bs
Hba−a1
Gene
3
7
6
2
4
1
5
Cluster
log(mean + 0.1)
0.75
0.50
0.25
0.00
percentage
0.0
0.1
0.2
0.3
0.4
0.5

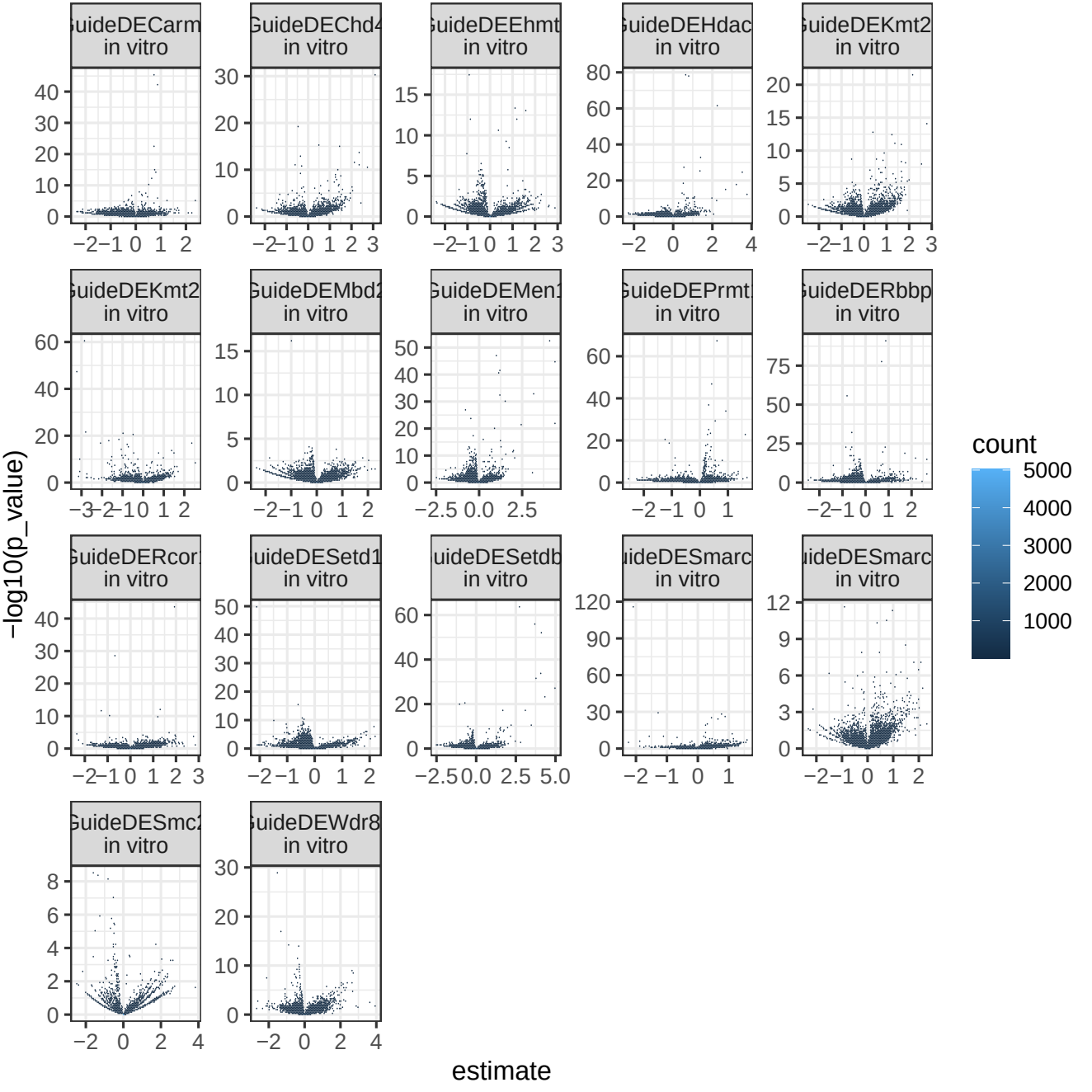

uepri
bel.ma
dmap
bel.fin
dmap
bel.ma
hpca
label.fine
pc
el.m
mg
el.f
nmge
bel.ma
rrow1
bel.ma
ow
el.m
ona
el.f
monaco
abel.mai
ouseRN
abel.fine
useR
bel.ma
in vitro
Clusters
6
1
5
2
4
3
7
Erythrocytes
HSC
Erythroid_CD34+ CD71+ GlyA−
Erythroid_CD34− CD71+ GlyA−
CMPs
Erythroid cells
MEP
Pro−B_cell_CD34+
CMP
Pro−Myelocyte
CMP
Stem cells (SC.MDP)
B cells, pro
Stem cells
Stem and progenitors
Megakaryocyte progenitors
Stem and progenitors
Effector memory CD8 T cells
B cells
Basophils
T cells
Macrophages
Monocytes
Erythrocytes
Macrophages
B cells
pruned_labels
percent
100
75
50
25
0

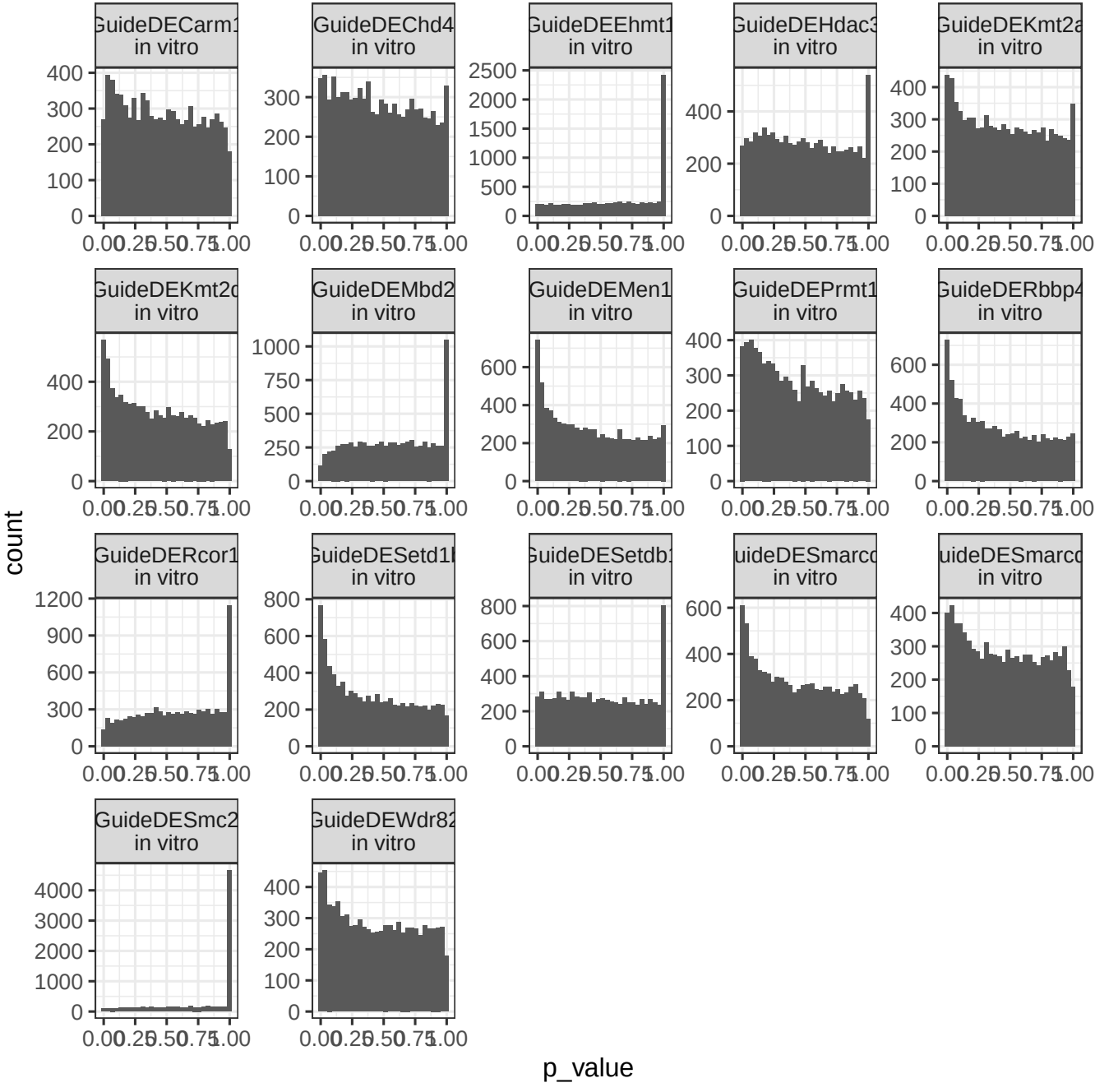

ECCITE4_Cas9
ECCITE4_WT
ECCITE8_OP1_d7
ECCITE8_OP1_d9
ECCITE8_OP2_d7
ECCITE8_OP2_d9
ECCITE8_OP3_d7
ECCITE8_OP3_d9
Cells
guide
mixscape_class.global
KO
NP
NTC

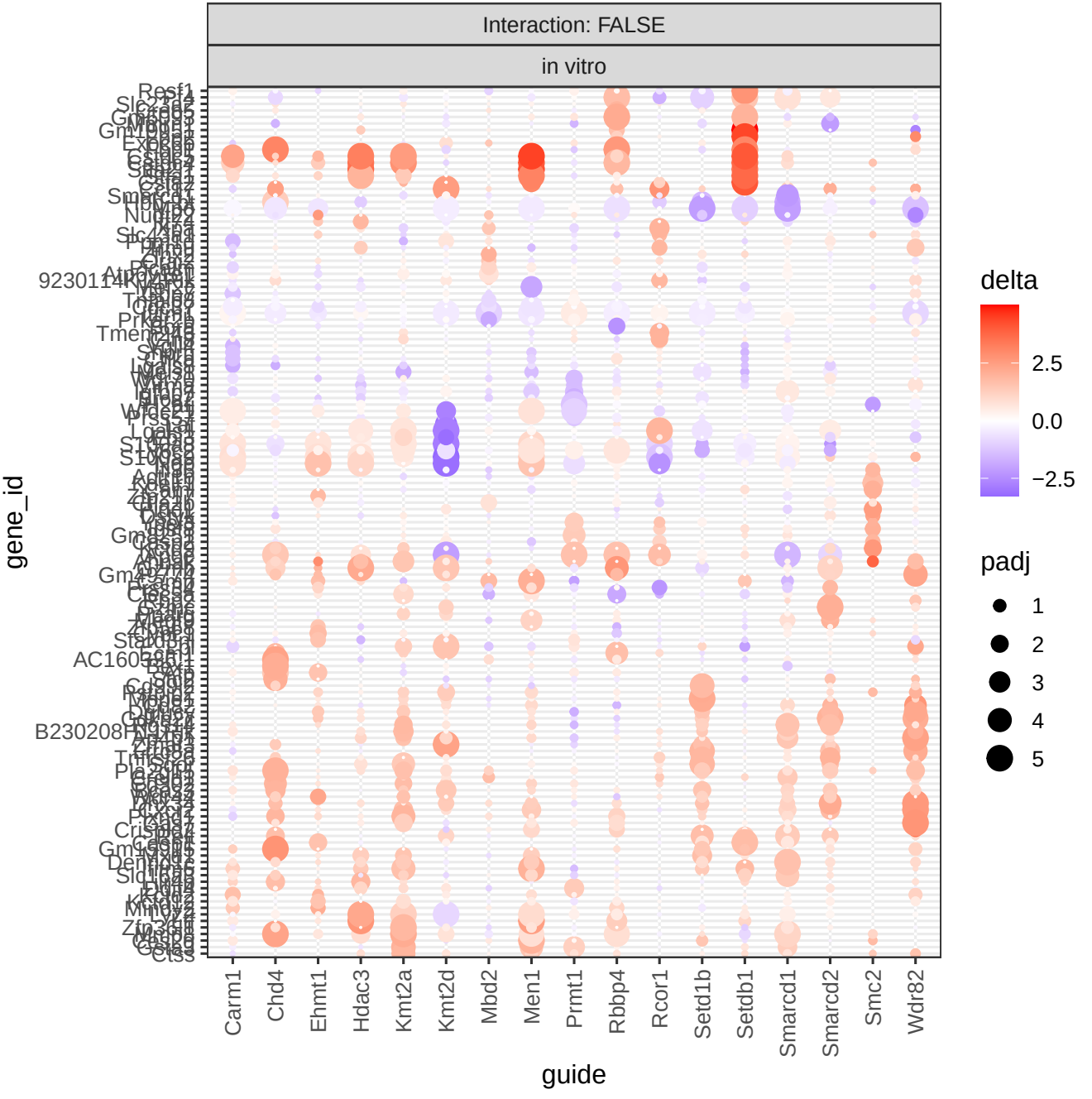

Percent of cells with assigned guide (NP or KO)
0
20
40
60
ECCITE4_Cas9
ECCITE4_WT
ECCITE8_OP1_d7
ECCITE8_OP1_d9
ECCITE8_OP2_d7
ECCITE8_OP2_d9
ECCITE8_OP3_d7
ECCITE8_OP3_d9
sample


ECCITE8_OP3_d9
ECCITE8_OP3_d9
ECCITE8_OP1_d9
ECCITE4_Cas9
ECCITE4_Cas9
ECCITE8_OP3_d9
ECCITE8_OP1_d9
ECCITE8_OP1_d7
ECCITE8_OP1_d9
ECCITE8_OP1_d7
ECCITE4_Cas9
ECCITE8_OP2_d9
ECCITE4_Cas9
ECCITE8_OP2_d9
ECCITE4_Cas9
ECCITE4_Cas9
ECCITE8_OP2_d9
ECCITE8_OP1_d9
ECCITE8_OP1_d9
ECCITE8_OP2_d9
ECCITE8_OP2_d9
ECCITE4_Cas9
ECCITE8_OP3_d9
ECCITE8_OP3_d7
ECCITE8_OP3_d9
ECCITE8_OP3_d7
ECCITE8_OP1_d9
ECCITE8_OP1_d9
ECCITE8_OP1_d9
ECCITE8_OP1_d9
ECCITE4_Cas9
ECCITE4_Cas9
ECCITE8_OP1_d9
ECCITE8_OP1_d9
ECCITE8_OP2_d9
ECCITE4_Cas9
ECCITE8_OP2_d9
ECCITE4_Cas9
ECCITE8_OP3_d9
ECCITE4_Cas9
ECCITE4_Cas9
ECCITE8_OP2_d7
Carm1_B_69142 KO
Carm1_B_69143 KO
Chd4_AS_66308 KO
Chd4_AS_66310 KO
Ehmt1_B_59112 KO
Hdac3_BR_7433 KO
Hdac3_BR_7434 KO
Kmt2a_AS_44476 KO
Kmt2a_BR_53968 KO
Kmt2a_Br_53969 KO
Kmt2d_AS_44463 KO
Kmt2d_AS_44464 KO
Kmt2d_BR_72116 KO
Mbd2_AS_41068 KO
Mbd2_BR_10401 KO
Men1_AS_40513 KO
Men1_AS_40514 KO
Prmt1_B_24468 KO
Prmt1_B_24470 KO
Rbbp4_AS_22098 KO
Rbbp4_BR_14486 KO
Rcor1_AS_21750 KO
Rcor1_AS_21752 KO
Setd1b_AS_17785 KO
Setd1b_Br_52333 KO
Setdb1_B_17753 KO
Setdb1_B_17754 KO
Smarcd1_AS_15166 KO
Smarcd1_AS_15167 KO
Smarcd1_BR_45407 KO
Smarcd2_Br_45401 KO
Smc2_B_15144 KO
Wdr82_Br_43556 KO
Wdr82_Br_43558 KO
Wdr82_BR_43559 KO
sample
1
2
3
4
5
6
7
Clusters
padj
0
1
2
3
4
5
log2OR
2
0
−2
−4


sample
Clusters
1
2
3
4
5
6
7
log2OR
2
0
−2
−4
padj
0
1
2
3
4
5


GuideDECarm
in vitro
GuideDEChd4
in vitro
GuideDEEhmt
in vitro
GuideDEHdac
in vitro
GuideDEKmt2
in vitro
GuideDEKmt2
in vitro
GuideDEMbd2
in vitro
GuideDEMen1
in vitro
GuideDEPrmt
in vitro
GuideDERbbp
in vitro
GuideDERcor
in vitro
GuideDESetd1
in vitro
GuideDESetdb
in vitro
GuideDESmarc
in vitro
GuideDESmarc
in vitro
GuideDESmc2
in vitro
GuideDEWdr8
in vitro
−log10(p_value)
estimate
count
5000
4000
3000
2000
1000


GuideDECarm1
in vitro
GuideDEChd4
in vitro
GuideDEEhmt1
in vitro
GuideDEHdac3
in vitro
GuideDEKmt2a
in vitro
GuideDEKmt2c
in vitro
GuideDEMbd2
in vitro
GuideDEMen1
in vitro
GuideDEPrmt1
in vitro
GuideDERbbp4
in vitro
GuideDERcor1
in vitro
GuideDESetd1b
in vitro
GuideDESetdb1
in vitro
GuideDESmarcc
in vitro
GuideDESmarcc
in vitro
GuideDESmc2
in vitro
GuideDEWdr82
in vitro
count
p_value


Interaction: FALSE
in vitro
gene_id
guide
Carm1
Chd4
Ehmt1
Hdac3
Kmt2a
Kmt2d
Mbd2
Men1
Prmt1
Rbbp4
Rcor1
Setd1b
Setdb1
Smarcd1
Smarcd2
Smc2
Wdr82
delta
2.5
0.0
−2.5
padj
1
2
3
4
5