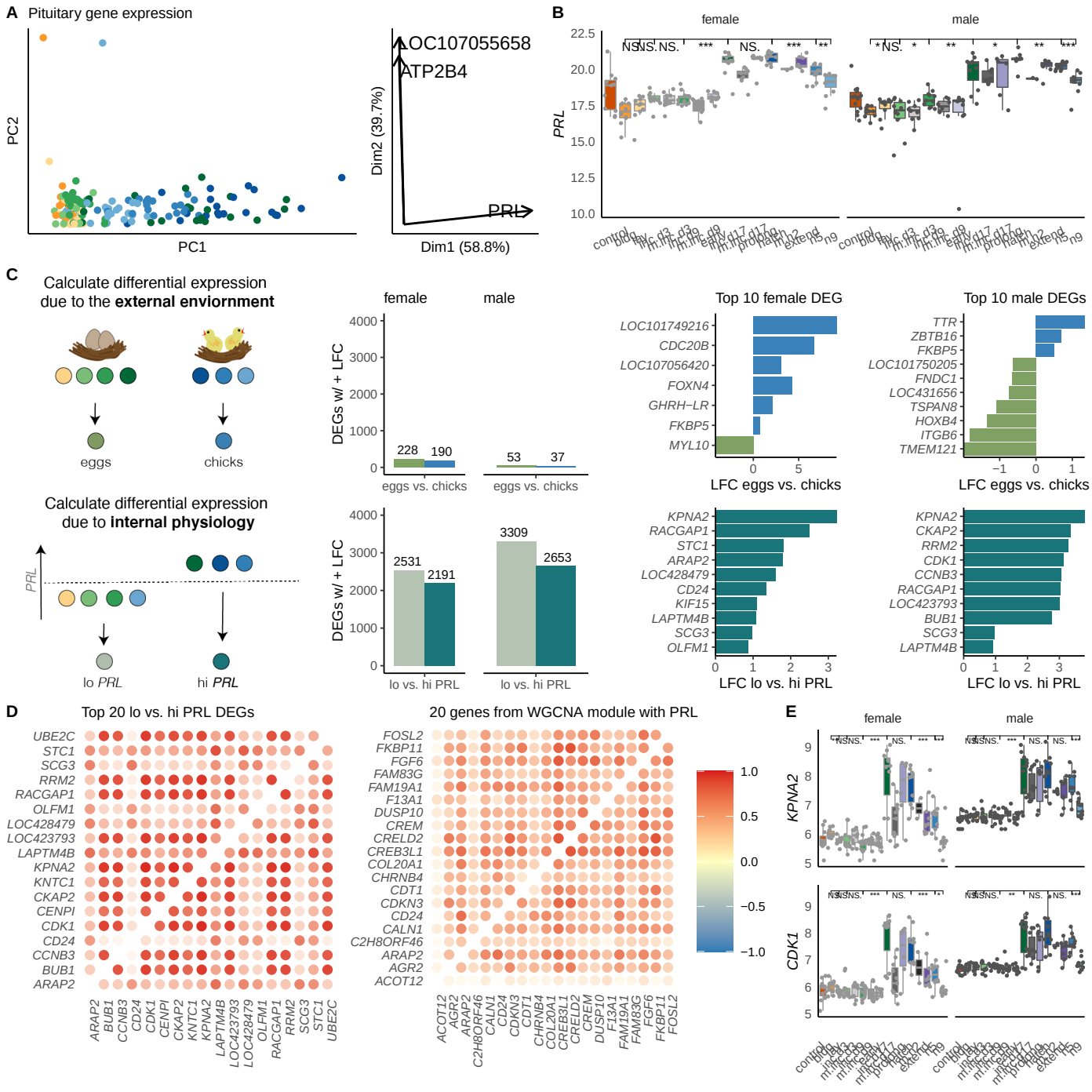
A
Pituitary gene expression
PC2
PC1
LOC107055658
ATP2B4
PRL
Dim2 (39.7%)
Dim1 (58.8%)
B
female
male
PRL
control
blog
hav.d3
lh.inc.d3
lh.inc.d9
early
lh.lvl.d17
prolonh
hatch
extend
h5
n9
C
Calculate differential expression due to the external enviornment
eggs
chicks
female
male
DEGs w/ + LFC
228
190
53
37
eggs vs. chicks
Top 10 female DEG
Top 10 male DEGs
LOC101749216
CDC20B
LOC107056420
FOXN4
GHRH−LR
FKBP5
MYL10
TTR
ZBTB16
FKBP5
LOC101750205
FNDC1
LOC431656
TSPAN8
HOXB4
ITGB6
TMEM121
LFC eggs vs. chicks
Calculate differential expression due to internal physiology
PRL
lo PRL
hi PRL
2531
2191
3309
2653
lo vs. hi PRL
KPNA2
RACGAP1
STC1
ARAP2
LOC428479
CD24
KIF15
LAPTM4B
SCG3
OLFM1
CKAP2
RRM2
CDK1
CCNB3
BUB1
LFC lo vs. hi PRL
D
Top 20 lo vs. hi PRL DEGs
UBE2C
STC1
SCG3
RRM2
RACGAP1
OLFM1
LOC428479
LOC423793
LAPTM4B
KPNA2
KNTC1
CKAP2
CENPI
CDK1
CD24
CCNB3
BUB1
ARAP2
20 genes from WGCNA module with PRL
FOSL2
FKBP11
FGF6
FAM83G
FAM19A1
F13A1
DUSP10
CREM
CRELD2
CREB3L1
COL20A1
CHRNB4
CDT1
CDKN3
CD24
CALN1
C2H8ORF46
ARAP2
AGR2
ACOT12
1.0
0.5
0.0
−0.5
−1.0
E
female
male
KPNA2
CDK1