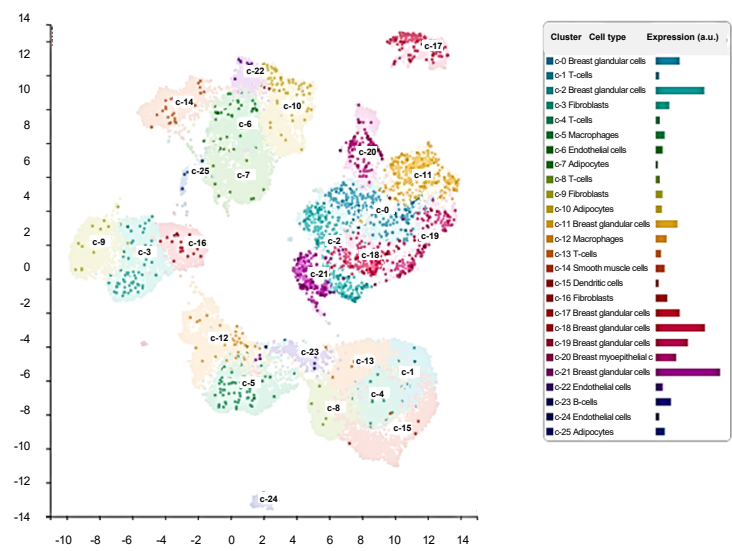
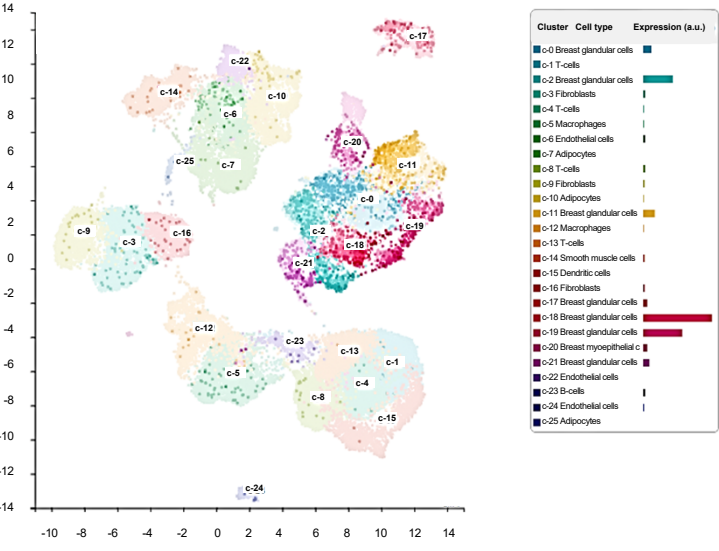


Supplementary Figure 1

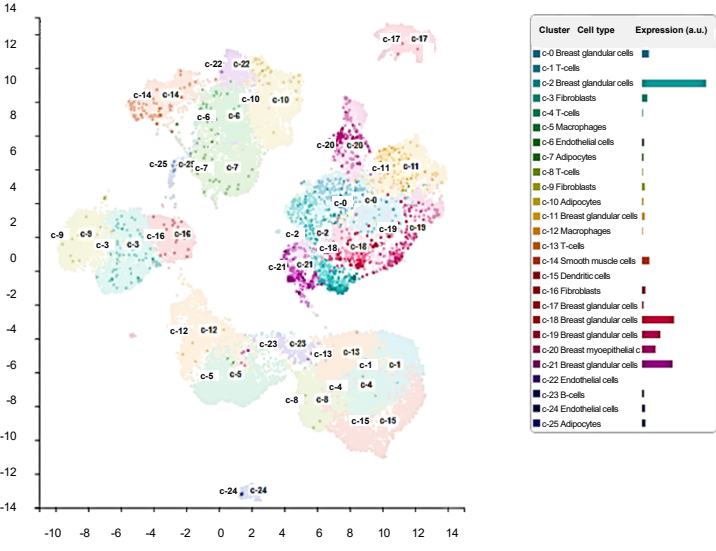
FAAH



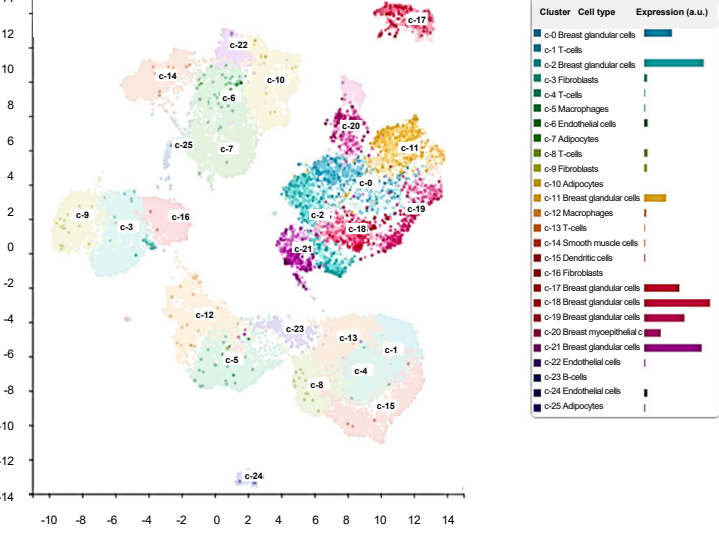
ESR1



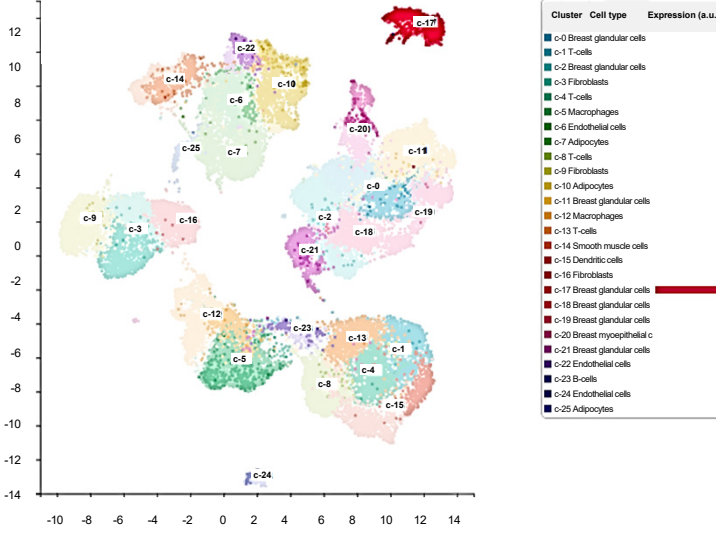
PGR



PRLR



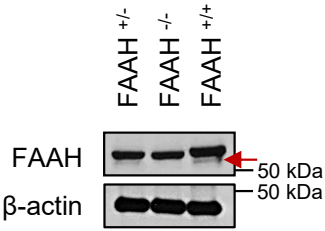
CSN2



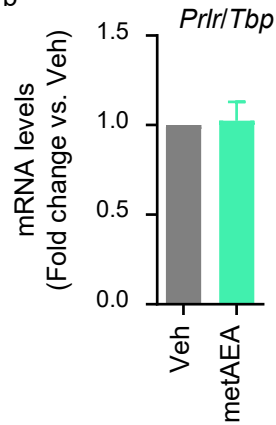
Supplementary Figure 1. FAAH is expressed in luminal hormone-sensing cell populations. t-SNEs plots representing mRNA expression of *FAAH* and cell population-specific genes in putative cell clusters of mammary cell populations defined by scRNA-seq analysis of developing mouse mammary glands as published by ¹¹. t-SNEs plots are colored by the normalized log-transformed expression of each of the genes. *ESR1*: estrogen receptor alpha; *PGR*: progesterone receptor; *PRLR*: prolactin receptor; *CSN2*: β -Casein.

Supplementary Figure 2

a



b



Supplementary Figure 2. a Representative WB analysis of FAAH in whole mammary gland lysates from FAAH ^{+/+}, FAAH ^{+/-}, and FAAH ^{-/-} mice. The WB band pattern in mouse mammary tissue is characterized by a double band where the lower one (pointed with an arrow) is the only which is absent in the FAAH ^{-/-} mice. **b** qPCR analysis of *Prlr* mRNA expression in HC11 cells after being differentiated in the presence of the metAEA at 0.5 μ M. Expression levels were normalized against *Tbp*. Data are shown as mean $\pm$ SEM of n=3 biologically independent experiments. Student's t-test: ns.