

Supplementary information, Figure S2. LdBCs appear in early pregnancy

- (a) Adult (8 weeks old) C57BL/6 mice were injected with vehicle (sunflower seed oil) or tamoxifen (2 mg per 25 g body weight), and subjected to pregnancy 7 days later. Mammary glands were collected and stained with carmine alum for whole mount analysis at 14.5d of pregnancy. Scale bars, 1 mm.
- (**b-b'**) Section confocal imaging showing that basal cells in the bi-lineage clone are positive for basal marker p63, both in the duct (**b**) and alveolae (**b'**). Scale bars, 10 μm.
- (c) Illustration of lineage tracing strategy using *K8-CreERT2;Rosa26-mTmG* mice during tracing of 1st early pregnancy.
- (d) FACS analysis showing that 54.59% of luminal cells are GFP+, and 2% of basal cells are GFP+ at 8.5 day of 1st pregnancy. Among total mGFP+ cells, 1.4% are in basal compartment.
- (e) Section confocal imaging showing that luminal-derived clones contain K14⁺ basal cells (arrow). Scale bars, 10 μm.
- (f) Section imaging indicating LdBC is negative for ZO-1 expression (arrow), while the luminal cell in the clone is ZO-1 positive (arrowhead). Scale bars, 10 μ m.

Data are pooled from n=3 mice.