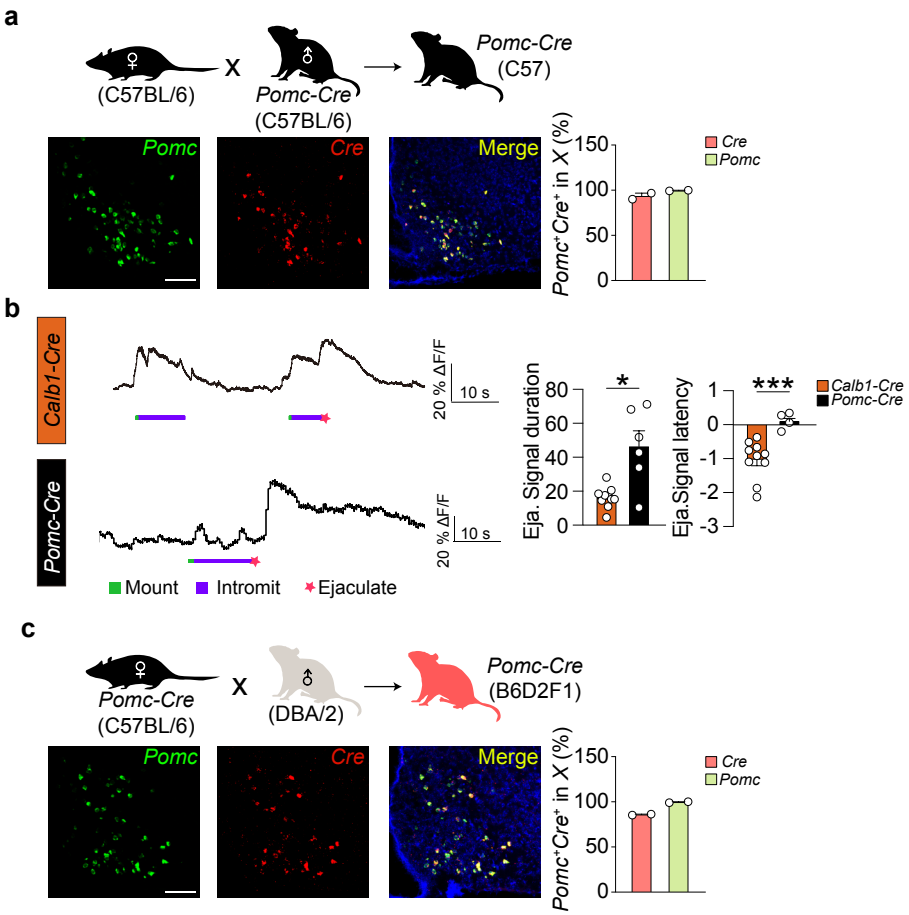

Extended Data Figure 8. Validation of the *Pomc-Cre* line and comparison of ejaculation-associated activity in *Pomc*+ and *Calb1*+ neurons

a, c. Illustration of the *Pomc-Cre* line maintained on the C57BL/6 background (**a**) and the B6D2F1 hybrid background (**c**). Representative RNAscope fluorescent *in situ* hybridization images with the quantification show overlap between *Cre* expression and *Pomc* signals. Scale bar, 50 μm. n = 2/group.

b. Representative traces of GCamp6s signals (ΔF/F) recorded in POA *Calb1*+ neurons (top) and ARC *Pomc*+ neurons (bottom). GCamp6s signal duration (left) during ejaculation (Eja.) and latency relative to ejaculation as time '0' (right) were plotted. The quantification showing delayed but more sustained activation of *Pomc*+ neurons during ejaculation compared to POA *Calb1*+ neurons. n = 10 *Calb1*+ males and 6 *Pomc*+ males.

Values are presented as mean ± SEM. *p < 0.05 ***p < 0.001.