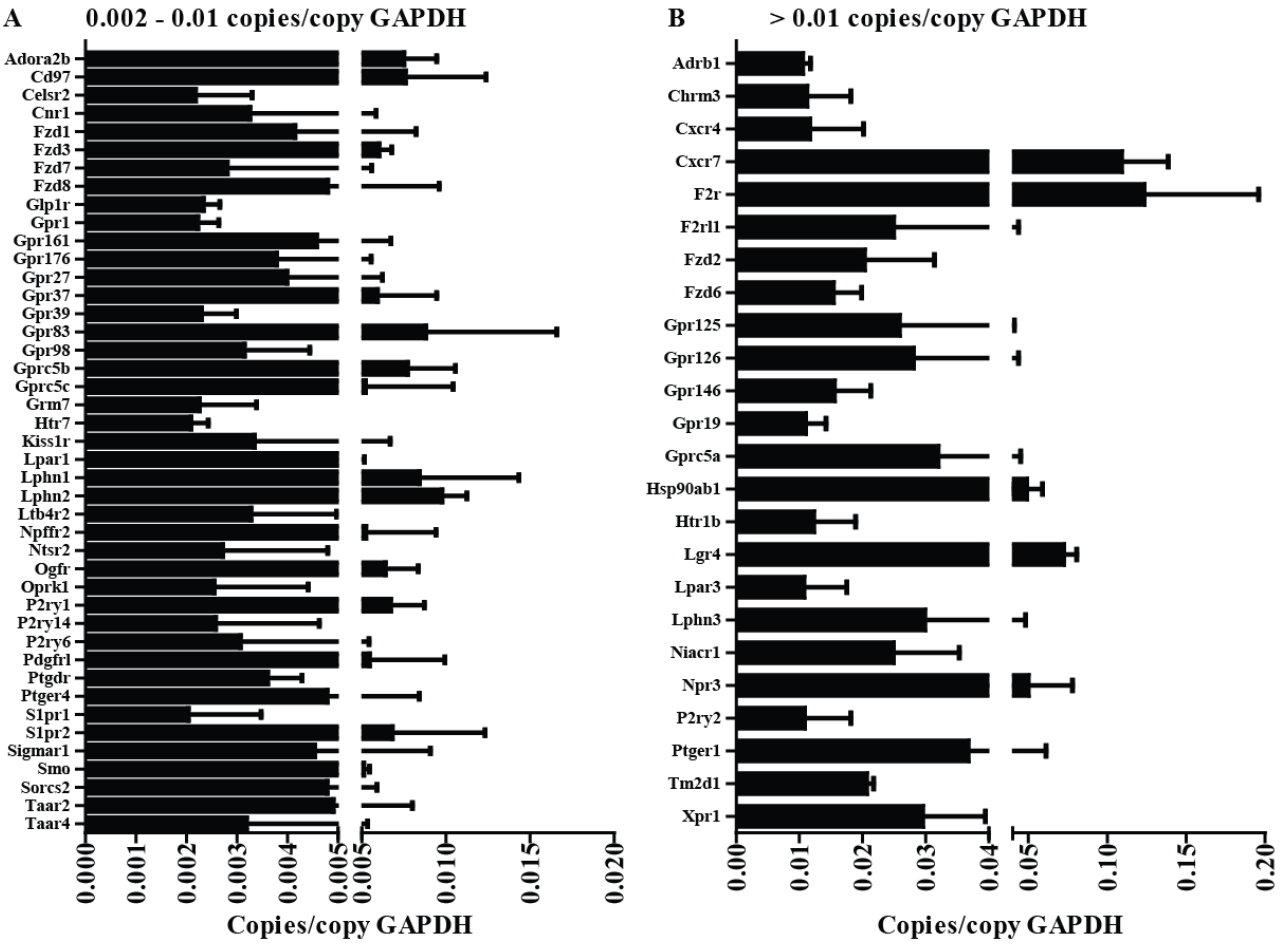
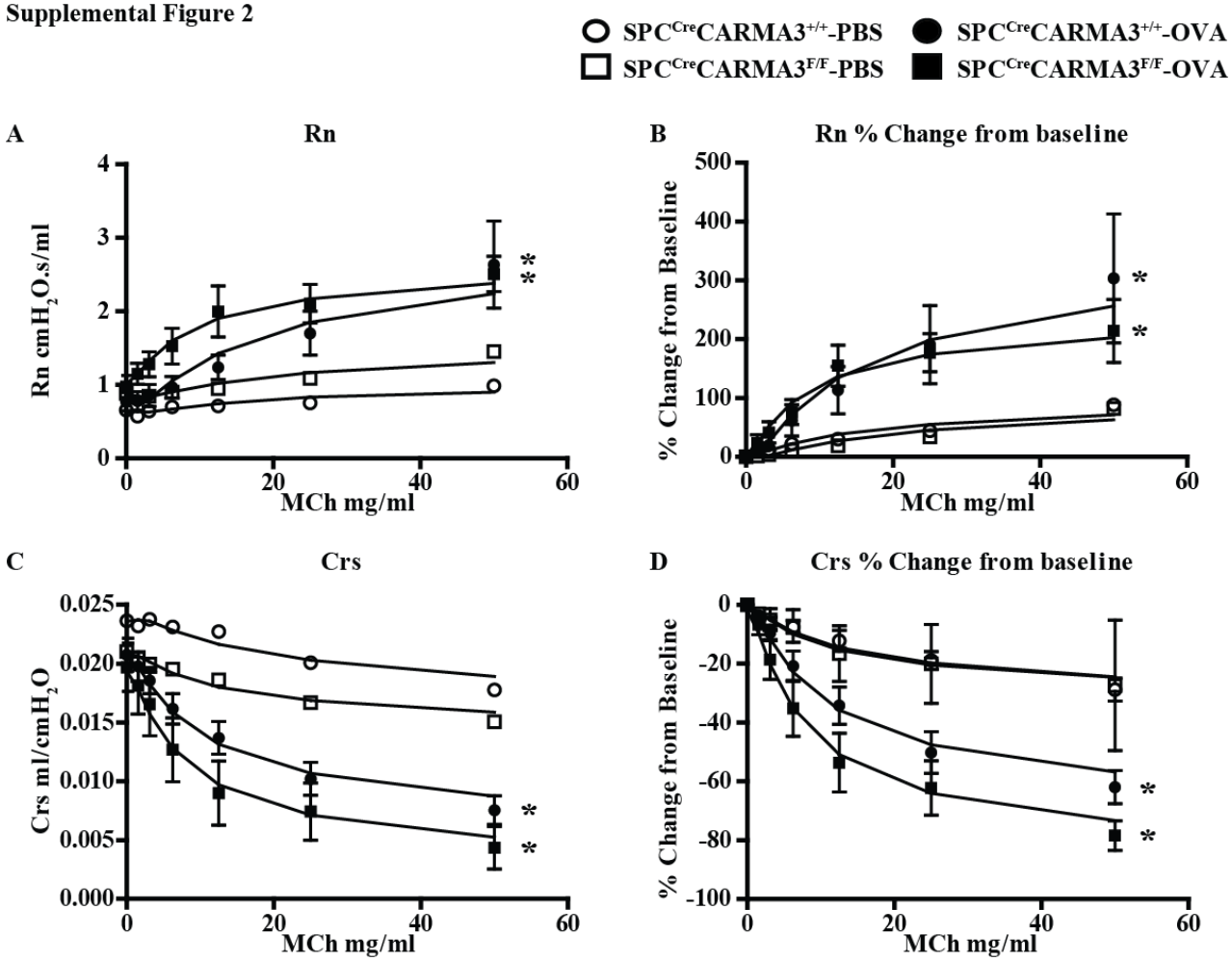
Supplemental Figure 1



Supplementary Figure 1. GPCR profile of mouse tracheal epithelial cells.
RNA was isolated from naïve, unstimulated mouse tracheal epithelial cells and the expression profile of a panel of 380 GPCRs was measured using a real-time qPCR mini-array. Shown are (**A**) medium and (**B**) high abundance GPCRs. GAPDH was used to normalize the values of GPCR genes tested.

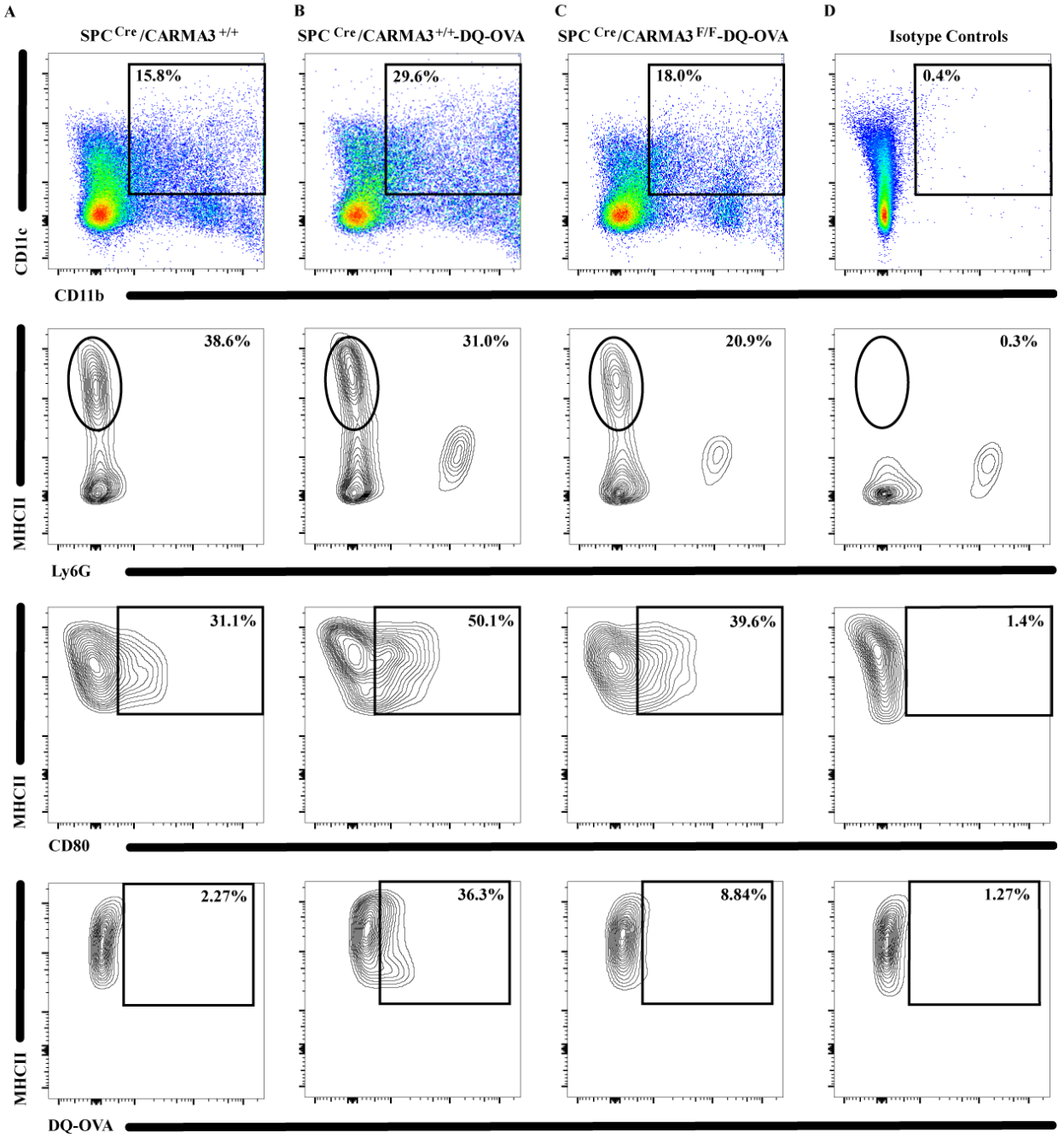
Supplemental Figure 2



Supplementary Figure 2. Deletion of CARMA3 in airway epithelial cells does not influence the development of airways hyper-responsiveness.

(**A**) Airway resistance of OVA/Alum immunized and either OVA or PBS challenged $SPC^{Cre}/CARMA3^{+/+}$ and $SPC^{Cre}/CARMA3^{F/F}$ mice. (**B**) Airway resistance as expressed as the percentage change from baseline. (**C**) Airway compliance of OVA/Alum immunized and either OVA or PBS challenged $SPC^{Cre}/CARMA3^{+/+}$ and $SPC^{Cre}/CARMA3^{F/F}$ mice. (**D**) Airway compliance as expressed as the percentage change from baseline. Data are means ± SEMs of 8 mice per group from 2 experiments. Multiple comparisons between treatment and control conditions were performed using two-way ANOVA.

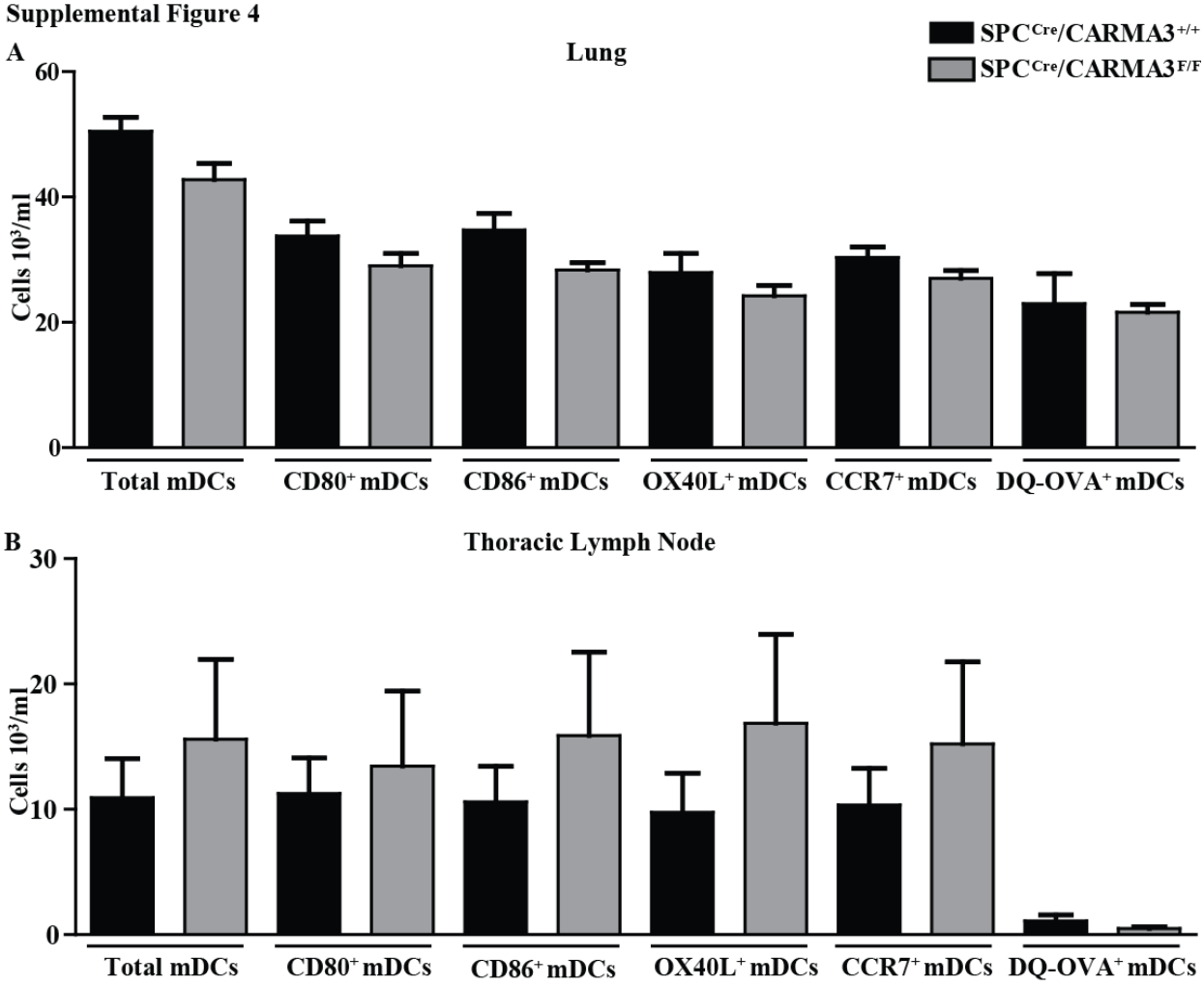
Supplemental Figure 3



Supplementary Figure 3. Representative flow cytometry of mature myeloid DCs isolated from the lungs of SPC^{Cre}/CARMA3$^{+/+}$ and SPC^{Cre}/CARMA3$^{F/F}$ mice.

Single cell suspension of lung and TLNs were analyzed by flow. After gating on live cells, we identified CD11c^{+}/CD11b^{+}/MHCII^{+}/Gr-1^{-} myeloid DCs and assessed expression of CD80, CD86, OX40L, CCR7 and DQ-OVA. Plots shown are CD80 and DQ-OVA expression on myeloid DCs from OVA/alum sensitized (**A**) SPC^{Cre}/CARMA3$^{+/+}$ mice that received no DQ-OVA, (**B**) SPC^{Cre}/CARMA3$^{+/+}$ mice that received DQ-OVA and (**C**) SPC^{Cre}/CARMA3$^{F/F}$ mice that received DQ-OVA. (**D**) Isotype controls for CD11b, MHCII, CD80 and DQ-OVA.

Supplemental Figure 4



Supplementary Figure 4. There is no difference in naïve DCs isolated from the lung and thoracic lymph nodes of SPC^{Cre}/CARMA3$^{+/+}$ and SPC^{Cre}/CARMA3$^{F/F}$ mice.
The (**A**) lungs and (**B**) thoracic lymph nodes were isolated from naïve SPC^{Cre}/CARMA3$^{+/+}$ and SPC^{Cre}/CARMA3$^{F/F}$ mice and the number of myeloid DCs, CD80$^+$ myeloid DCs, CD86$^+$ myeloid DCs, OX40L$^+$ myeloid DCs, CCR7$^+$ myeloid DCs and DQ-OVA$^+$ myeloid DCs were determined by flow cytometry. Data are means ± SEMs of 8 mice per group from 2 experiments.