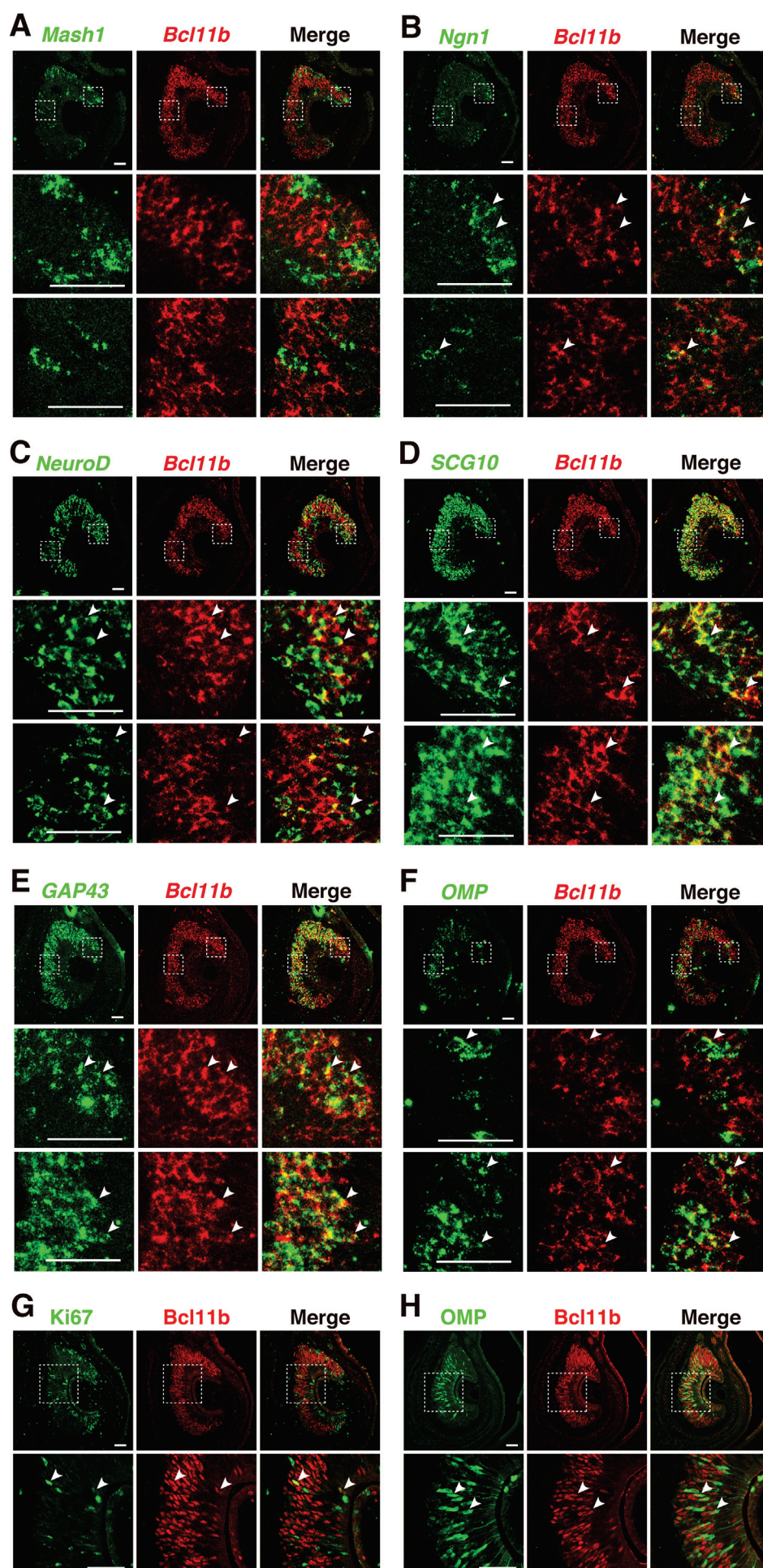


Supplemental Figure S1

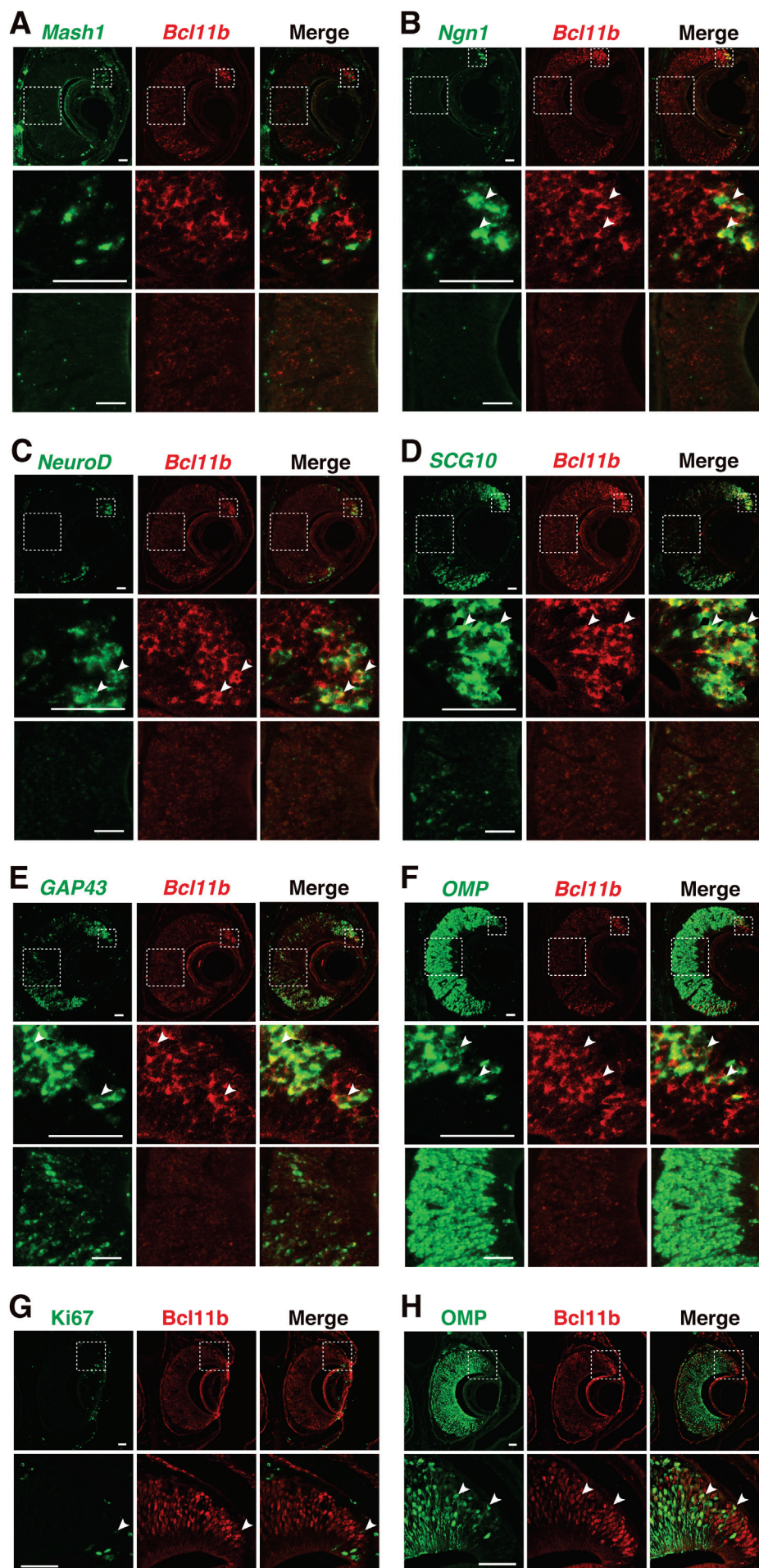


Supplemental Figure S1

Expression of *Bcl11b* in the mouse vomeronasal epithelium at P0.

A-F, *Bcl11b*-expressing cells were analyzed using two-color ISH with RNA probes for *Bcl11b* (red) in combination with marker genes (green) in coronal sections of the VNE at P0: *Mash1* (**A**, upper image: low magnification, middle: high magnification of the marginal region, lower: high magnification of the central region), *Ngnl* (**B**), *NeuroD* (**C**), *SCG10* (**D**), *GAP43* (**E**), *OMP* (**F**). *Bcl11b* was not co-expressed with *Mash1* (**A**) but was partially co-expressed with *Ngnl* (**B**, arrowheads) and *NeuroD* (**C**, arrowheads). Most of the *Bcl11b*-positive cells were co-labeled with the immature marker genes, *SCG10* and *GAP43* (**D**, **E**, arrowheads). Expression of *OMP* expression was partially overlapped with that of *Bcl11b* (**F**, arrowheads). **G**, Double-label fluorescent IHC using an anti-Ki67 antibody, a proliferation marker and an anti-Bcl11b antibody showed that a small population of Ki67-positive cells co-labeled with the anti-Bcl11b antibody (arrowheads), but most Bcl11b-positive cells were Ki67-negative. **H**, Double-label fluorescent IHC using anti-OMP antibody with anti-Bcl11b antibody showed OMP-positive cells partially co-immunostained with anti-Bcl11b antibody (arrowheads). Scale bars, 50 μ m.

Supplemental Figure S2

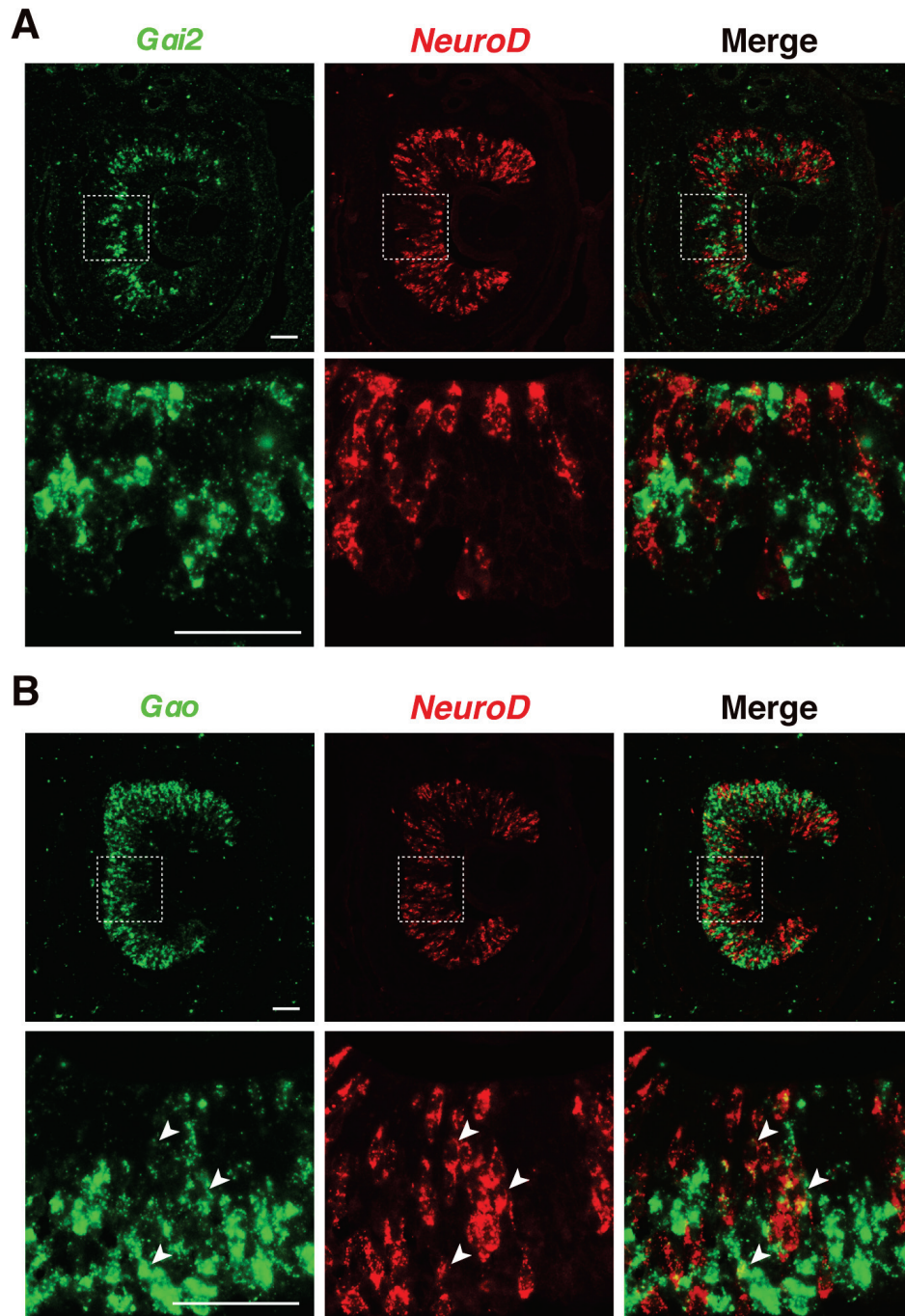


Supplemental Figure S2

Expression of *Bcl11b* in the mouse vomeronasal epithelium at P14.

A-F, *Bcl11b*-expressing cells were analyzed using two-color ISH with RNA probes for *Bcl11b* (red) in combination with marker genes (green) in coronal sections of the VNE at P14: *Mash1* (**A**, upper image: low magnification, middle: high magnification of the marginal region, lower: high magnification of the central region), *Ngn1* (**B**), *NeuroD* (**C**), *SCG10* (**D**), *GAP43* (**E**), *OMP* (**F**). Strong expression of *Bcl11b* was observed in the marginal regions of the VNE, where expression of marker genes for neuronal progenitors, precursors and immature neurons were observed. Expression of *Bcl11b* was weak in the central region of the VNE. *Bcl11b* was not co-expressed with *Mash1* (**A**) but was partially co-expressed with *Ngn1* (**B**, arrowheads) and *NeuroD* (**C**, arrowheads). Most of the *Bcl11b*-positive cells were co-labeled with the immature marker genes, *SCG10* and *GAP43* (**D**, **E**, arrowheads). Most of the *OMP*-expressing cells distributed complementary to the location of high *Bcl11b*-expressing cells (**F**, arrowheads indicate typical co-expressing cells). **G**, Double-label fluorescent IHC of using anti-Ki67 antibody and anti-Bcl11b antibody showed that some Ki67-positive cells co-labeled with the anti-Bcl11b antibody. **H**, Double-label fluorescent IHC using anti-OMP antibody with anti-Bcl11b antibody showed *OMP*-immunostaining was mainly detected in the VNE other than the marginal regions, where strong *Bcl11b*-immunostaining was observed. Scale bars, 50 μ m.

Supplemental Figure S3



Supplemental Figure S4

Characterization of *Gai2*- and *Gao*-expressing VSNs.

A, B, Co-expression of *Gai2* and *Gao* with *NeuroD* were analyzed by two-color ISH at P0. Co-expression of *Gai2* (green) and *NeuroD* (red) was not detected (**A**), whereas a few double positive cells for *Gao* (green) and *NeuroD* (red) were observed (**B**, arrowheads), suggesting expression of *Gao* was earlier than that of *Gai2* during the differentiation of VSNs. Scale bars, 50 μ m.