

Figure S1

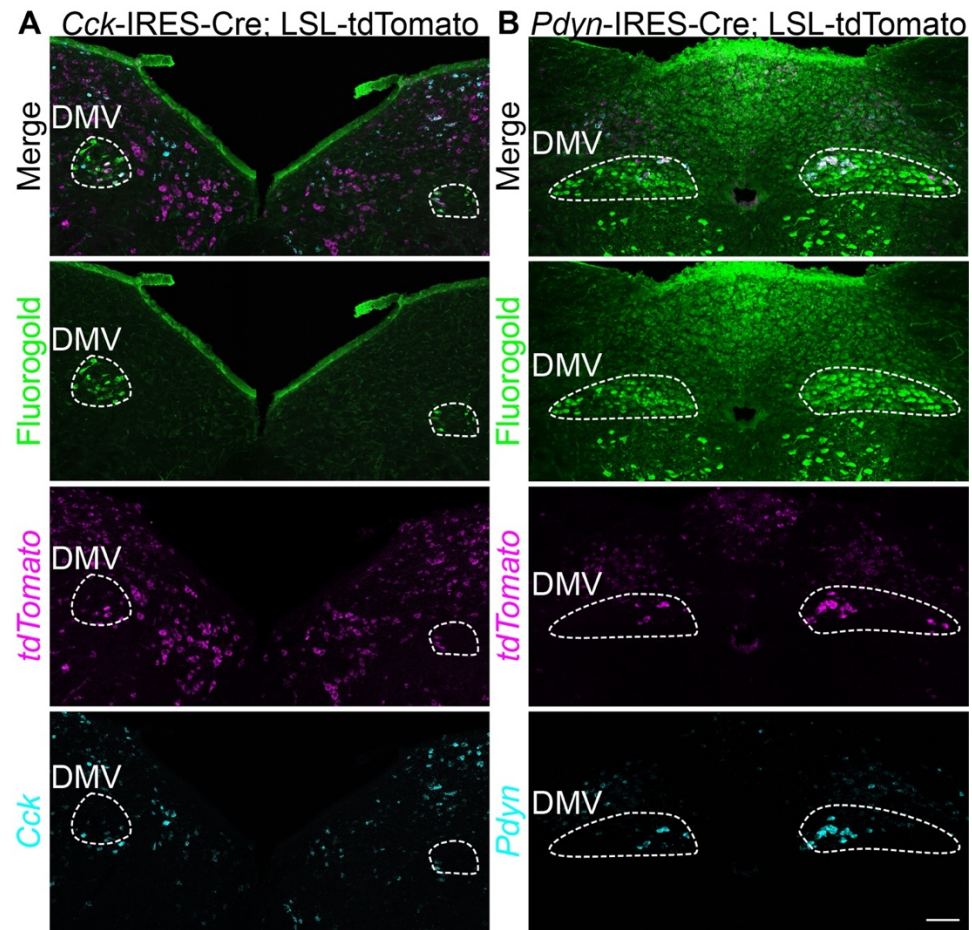


Figure S1. Validation of *Cck*-IRES-Cre and *Pdyn*-IRES-Cre mice, Related to Figure 3

(A) *In situ hybridization* of *Cck* and tdTomato expression in the DMV of *Cck*-IRES-Cre; LSL-tdTomato mice (n = 2). 63.1% of *Cck*⁺ neurons are tdTomato⁺ and 77.9% of tdTomato⁺ neurons are *Cck*⁺; scale bar: 200 μm.

(B) *In situ hybridization* of *Pdyn* and tdTomato expression in the DMV of *Pdyn*-IRES-Cre; LSL-tdTomato mice (n = 2). 63.6% of *Pdyn*⁺ neurons are tdTomato⁺ and 83.4% of tdTomato⁺ neurons are *Pdyn*⁺; scale bar: 200 μm.

Figure S2

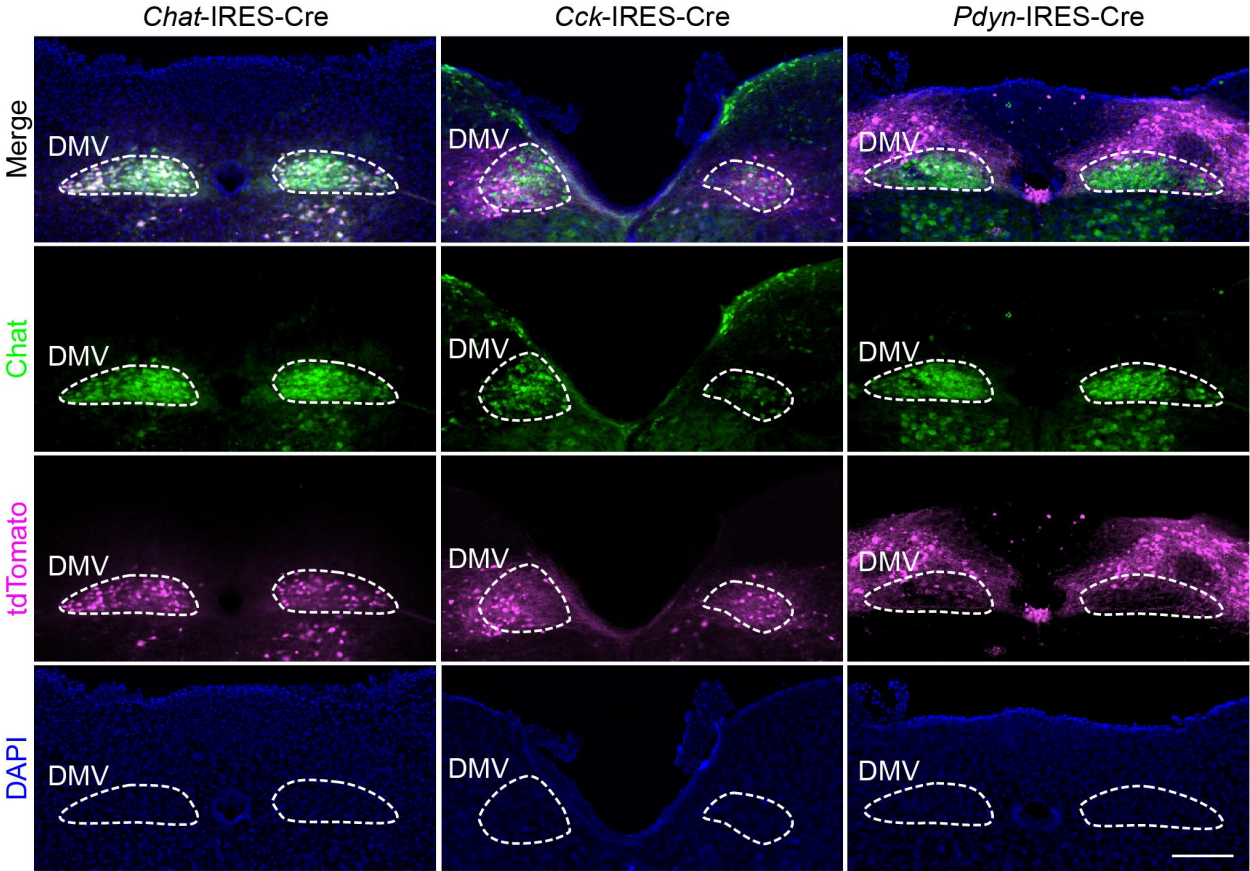
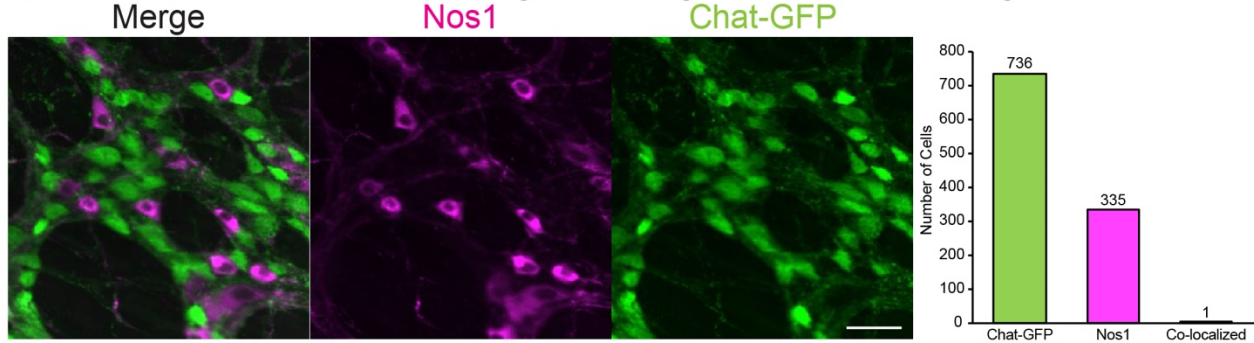


Figure S2. Genetic Access to *Chat*⁺, *Cck*⁺, and *Pdyn*⁺ DMV neurons, Related to Figure 3
(A) tdTomato expression in the DMV of *Chat*-IRES-Cre, *Cck*-IRES-Cre, and *Pdyn*-IRES-Cre mice following brainstem injection of AAV-FLEX-tdTomato; scale bar: 200 μm.

Figure S3

A Simultaneous identification of cholinergic and nitergic enteric neurons in the glandular stomach



B Enteric neurons queried for surrounding DMV pericellular arborization

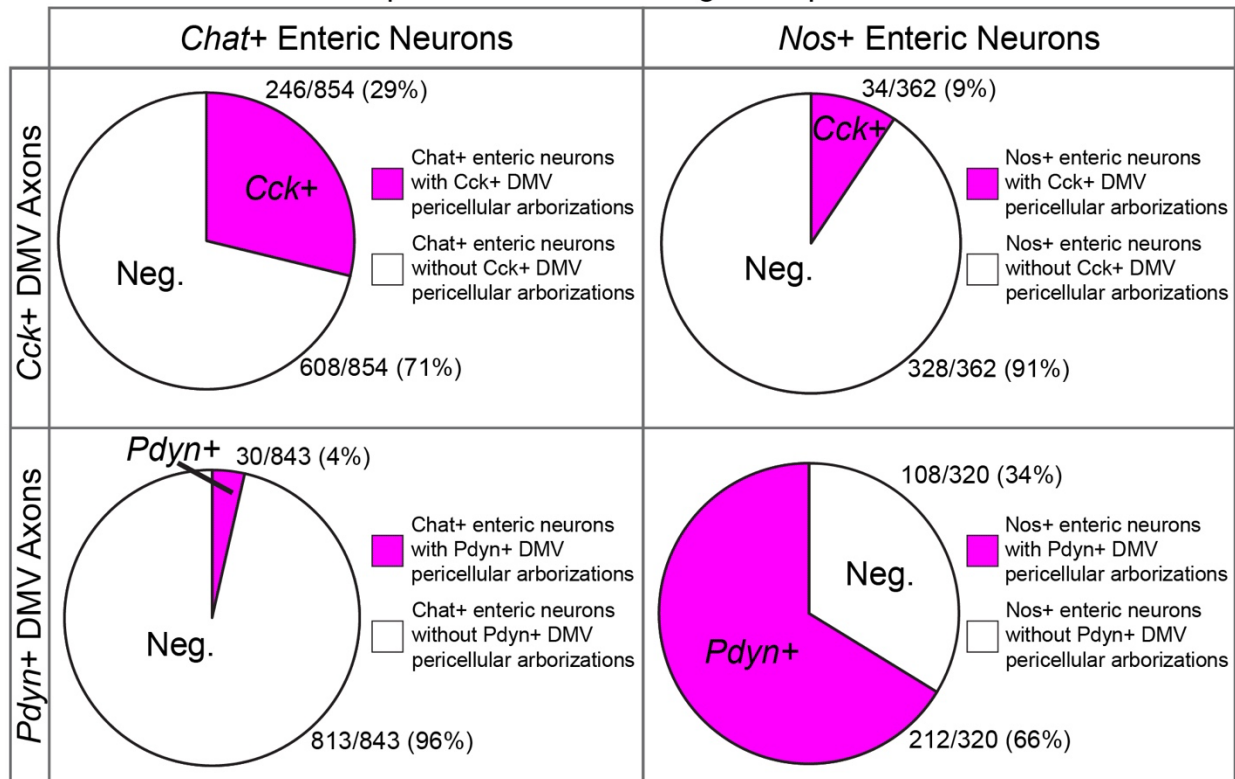


Figure S3. Enteric Neurons With or Without Surrounding DMV Pericellular Arborization, Related to Figure 4.

(A) Number of enteric neurons in the glandular stomach marked by Chat-GFP, Nos1, or both (n = 2); scale bar: 50 μ m.

(B) Numbers of enteric neurons in the glandular stomach with or without DMV pericellular arborizations in *Cck*-IRES-Cre (n = 3), *Cck*-IRES-Cre;*Chat*-GFP (n = 3), *Pdyn*-IRES-Cre (n = 3), and *Pdyn*-IRES-Cre;*Chat*-GFP (n = 3) mice.