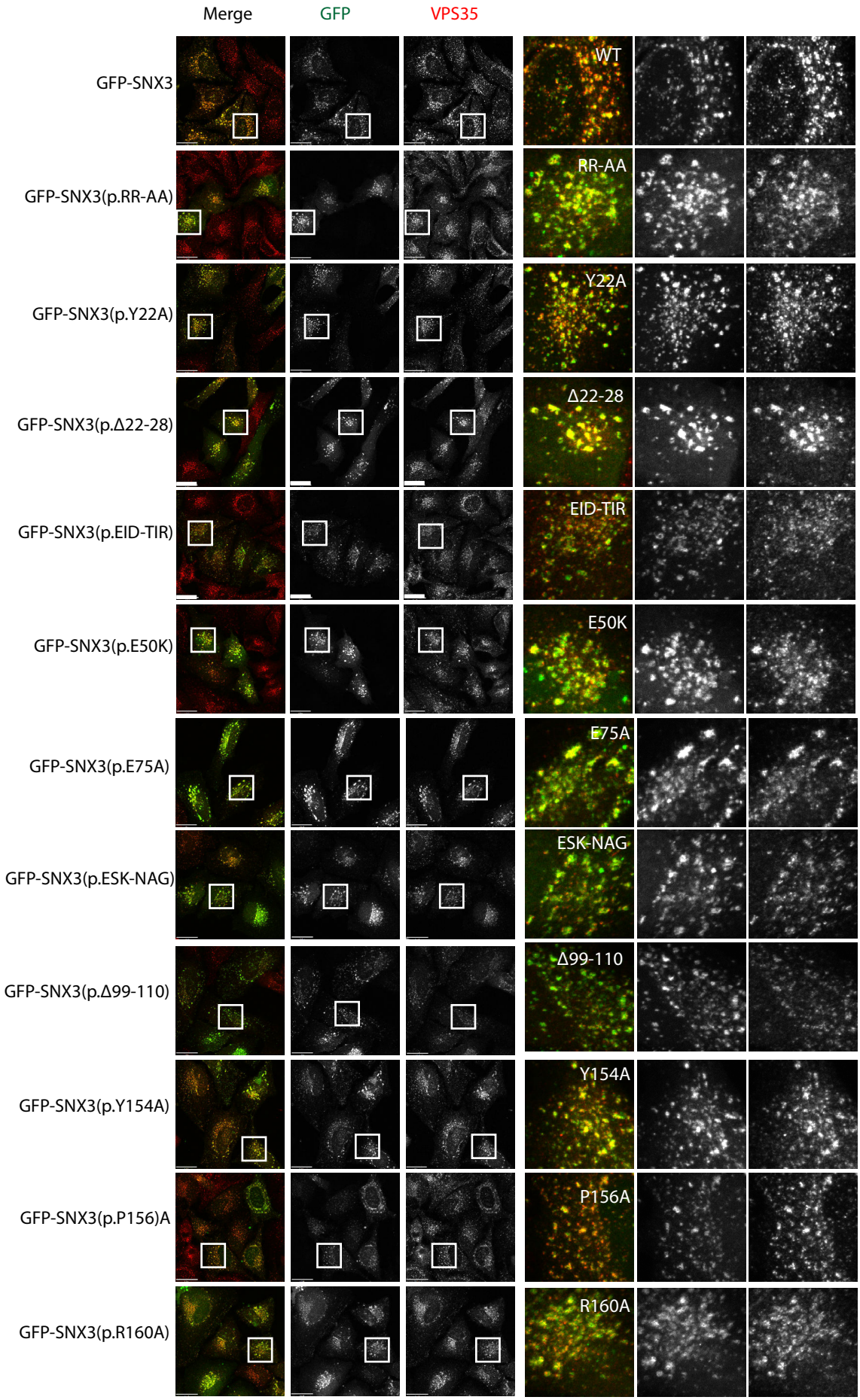
SNX3-retromer requires an evolutionary conserved MON2:DOPEY2:ATP9A complex to mediate Wntless sorting and Wnt secretion.

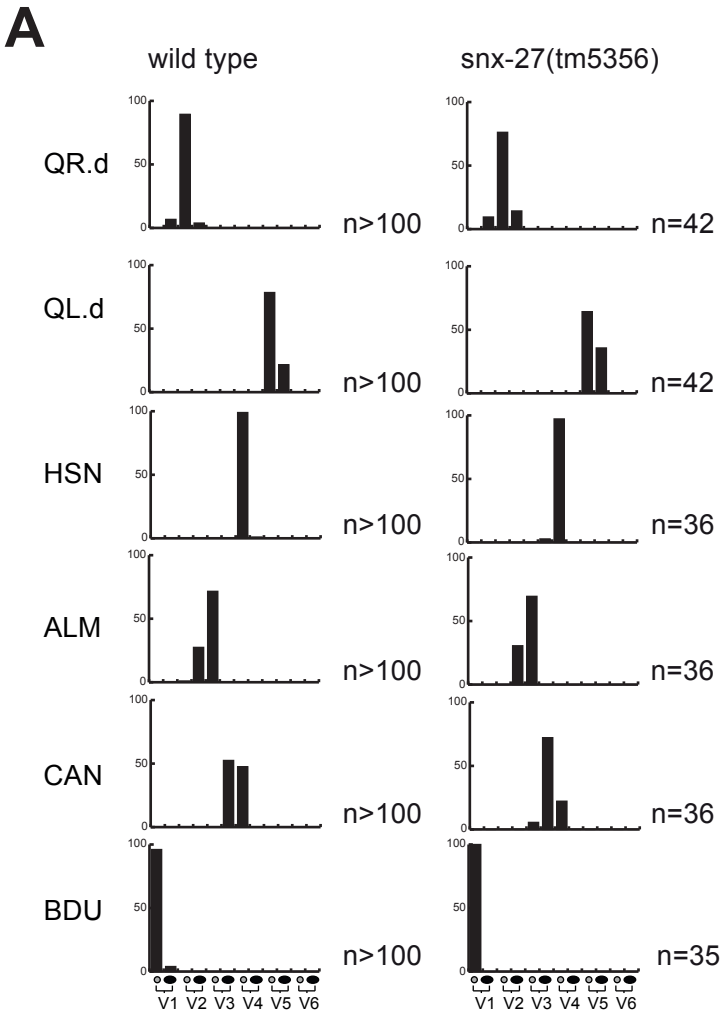
McGough et al., 2018

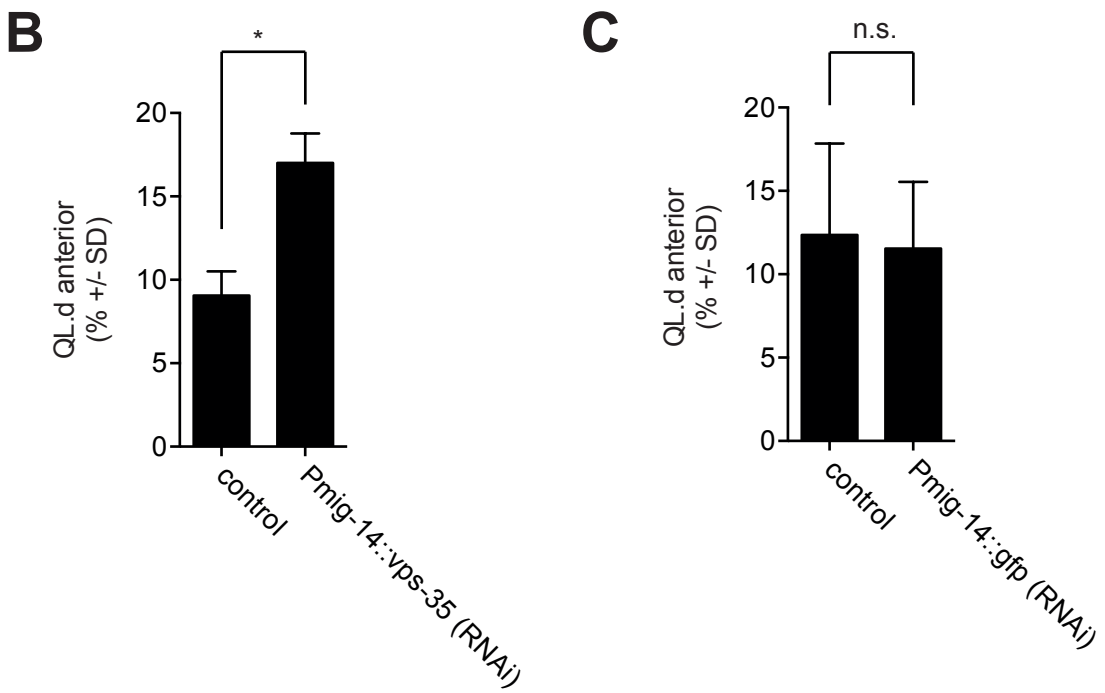
Supplementary Information



Supplementary figure 1: Mutant GFP-SNX3 constructs localise to endosomes.

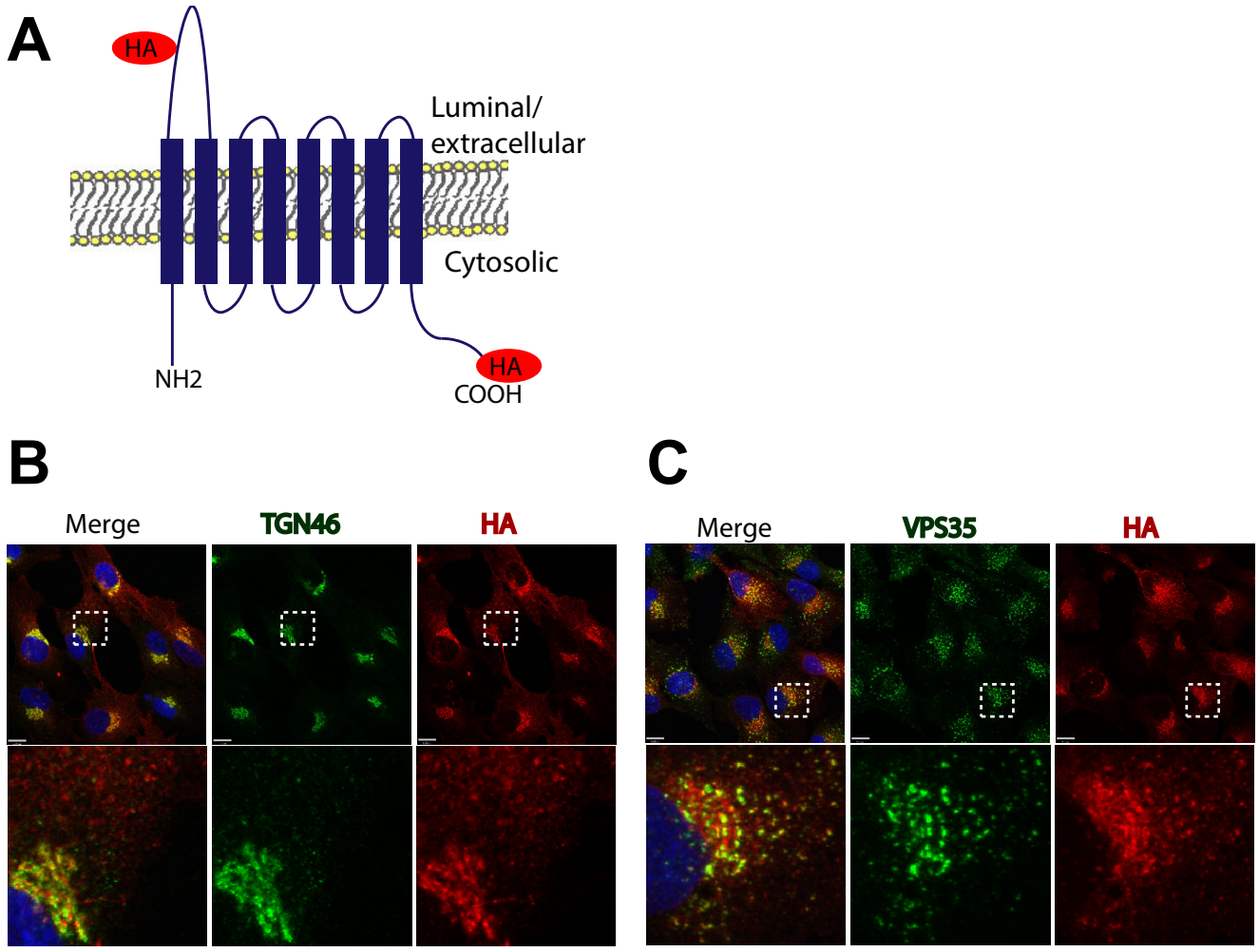
Entire data set for Figure 1 C. Confocal images of HeLa cells transiently transfected to express wild type or mutated versions of GFP-SNX3 and subsequently stained for endogenous VPS26. Scale bar is 23 μm.





Supplementary figure 2.

(A) Loss of snx-27 does not affect the Wnt dependent cell migration of the HSN, ALM, CAN, BDU neurons and the Q neuroblasts. **(B)** Knock down of vps-35 in Wnt producing cells enhances the Wnt signaling phenotype (anterior localization of the QL.d) of vps-29 mutants. **(C)** Expression of gfp double stranded RNA has no effect on Wnt signaling in the vps-29 mutant background.



Supplementary Figure 3: HA-WLS localises to the trans-golgi network and VPS35-positive endosomes

(A) Schematic representation of the HA-WLS construct: two HA-tags are cloned onto Wntless, one on the luminal-facing and one on the cytosolic-facing side of the protein. **(B)** RPE-1 cells, stably expressing HA-WLS, were fixed and immuno-stained for HA and endogenous TGN46. The scale bar indicates 11 μm. **(C)** RPE-1 cells, stably expressing HA-WLS, were fixed and immuno-stained for HA and endogenous VPS35. The scale bar indicates 11 μm.

Supplementary Figure 4: Uncropped blots

FIgure 1B

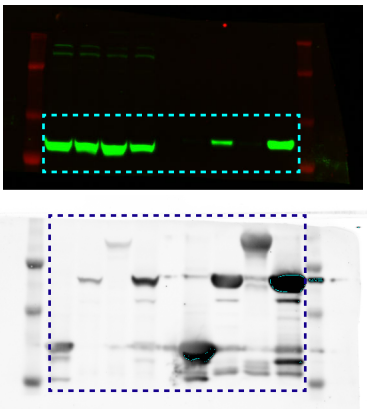


Figure 1D

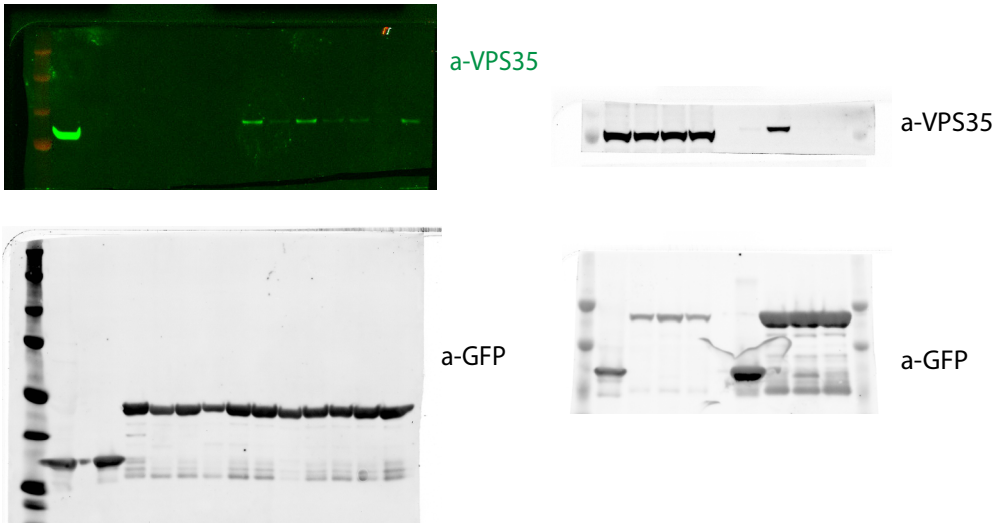


Figure 2D

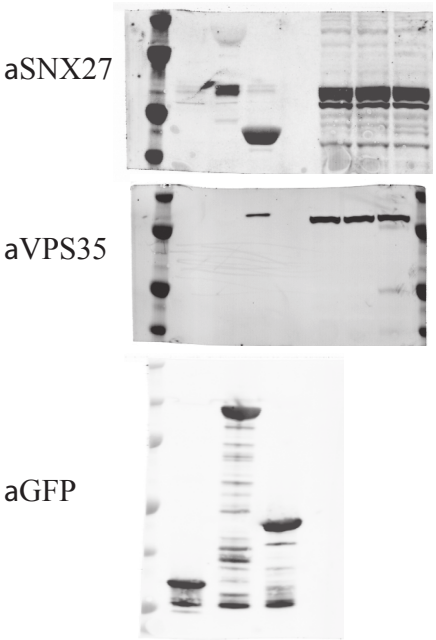


Figure 2E

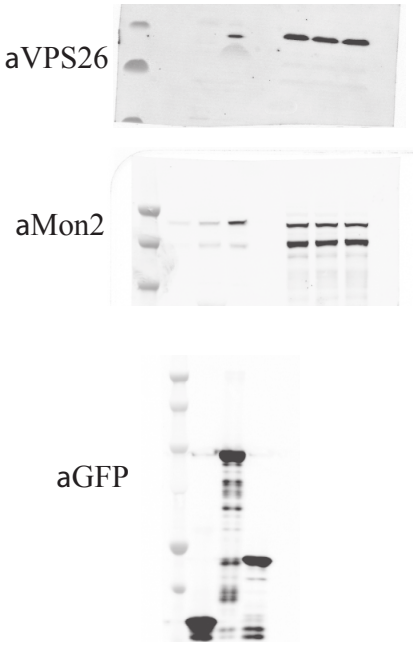


Figure 2F

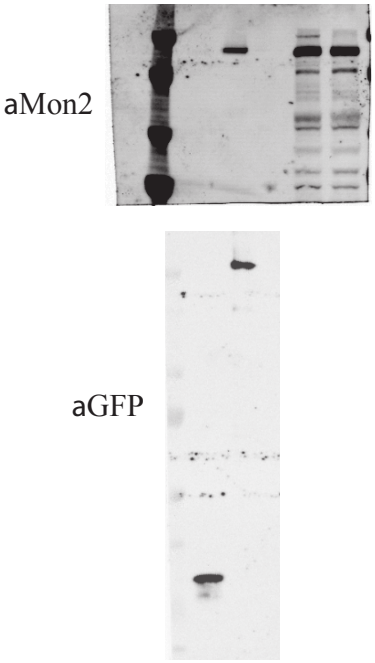


Figure 2G

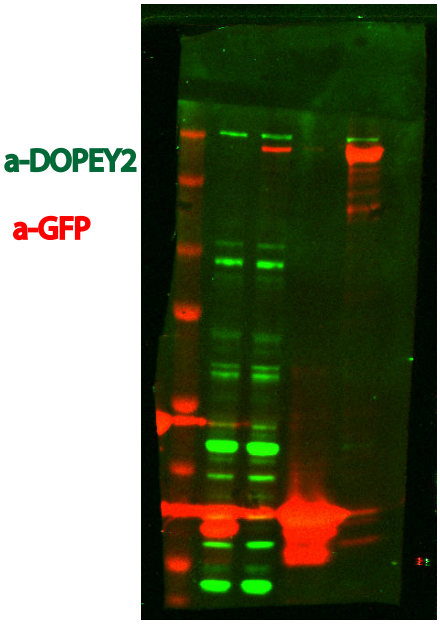


Figure 2H

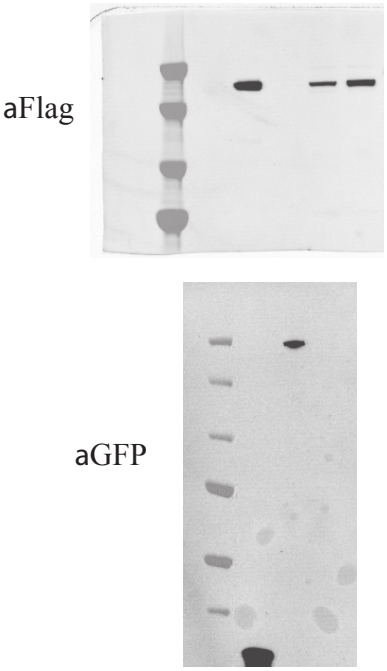
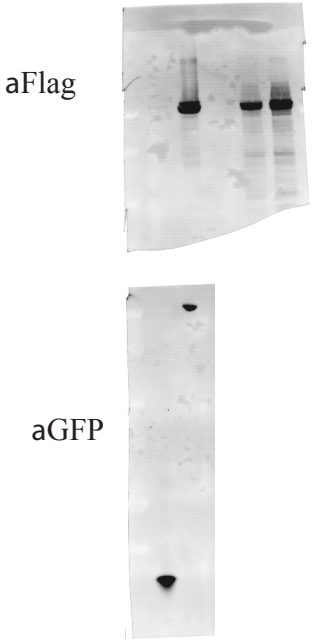


Figure 2I



Supplementary Figure 4 (continued): Uncropped blots

Figure 2J

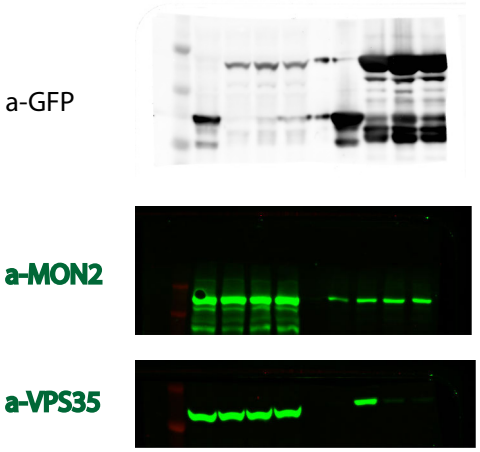


Figure 3A

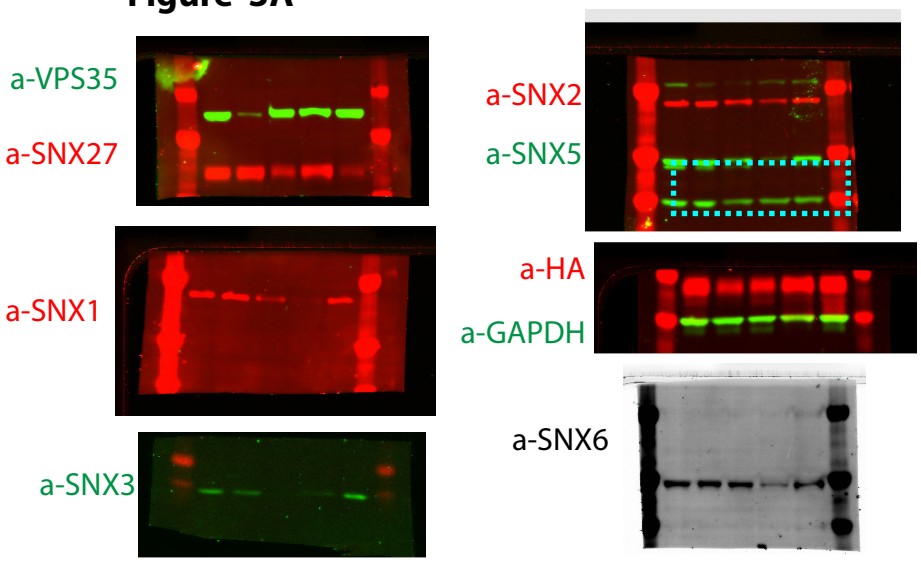


Figure 3B

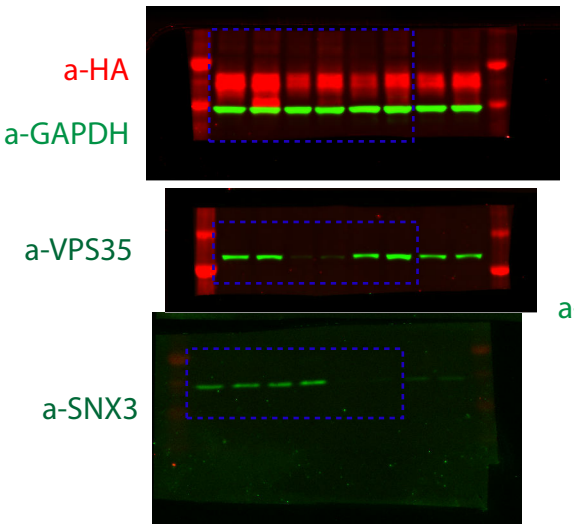


Figure 3C

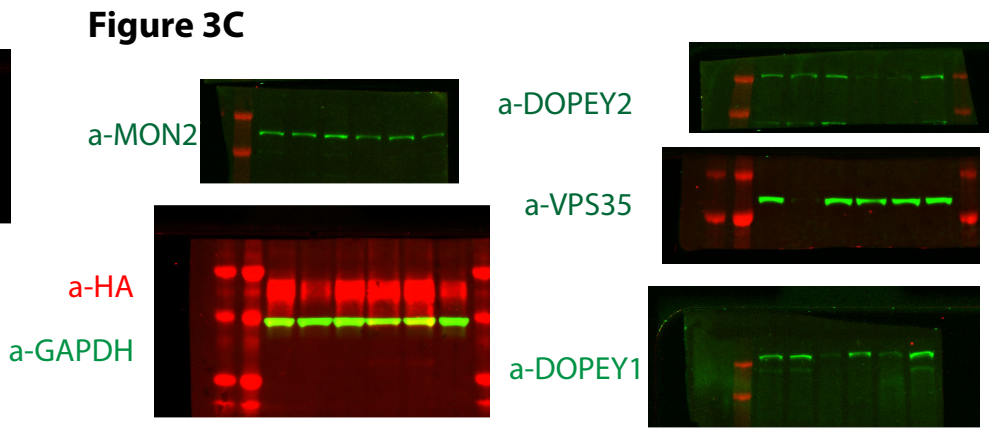


Figure 3D

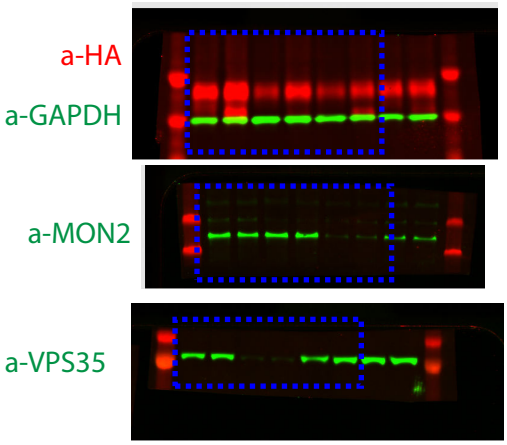


Figure 4H

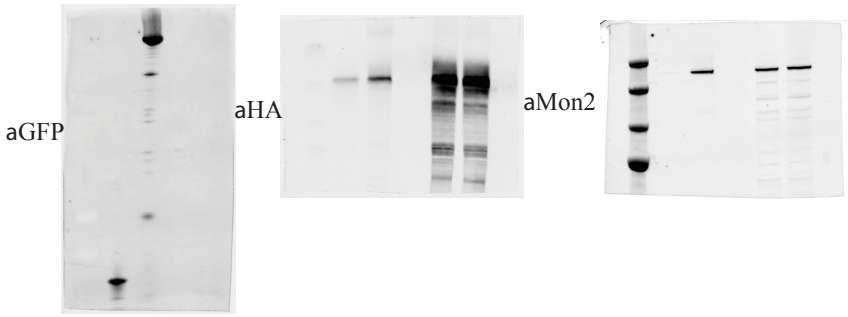


Figure 3E

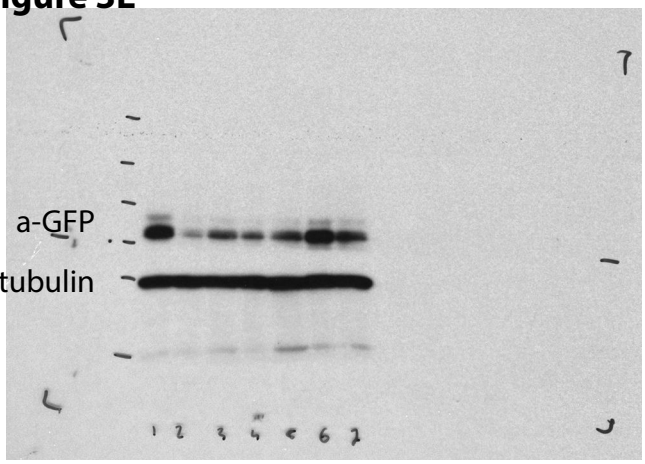


Figure 5A