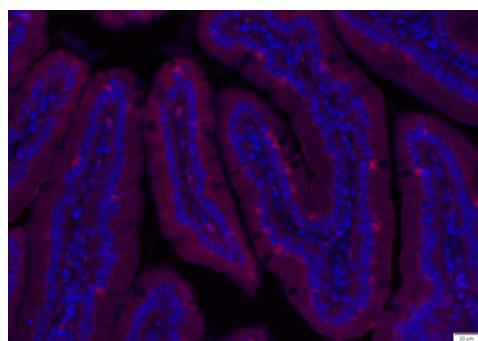
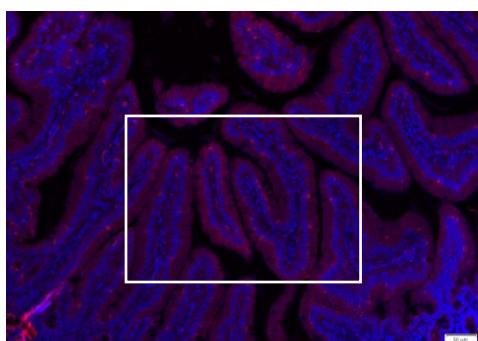
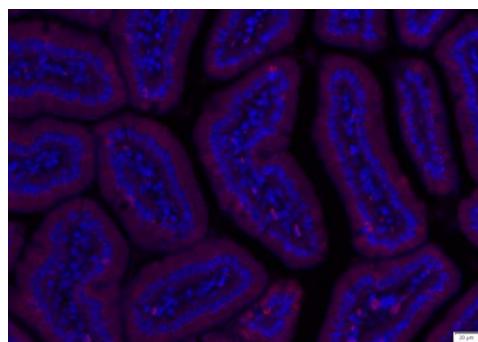
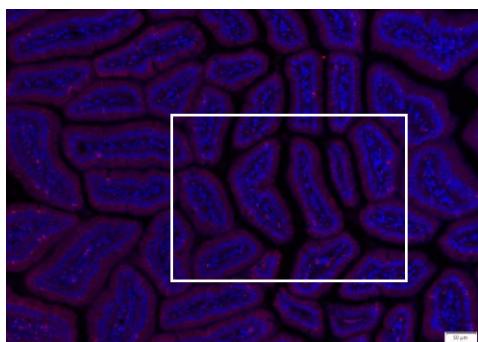
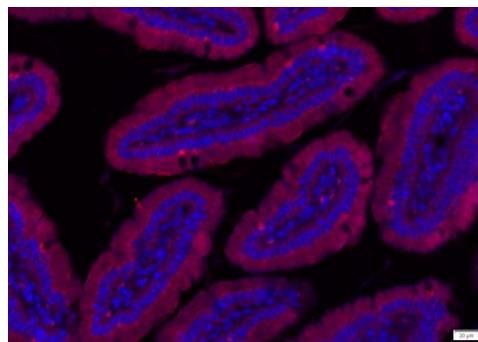
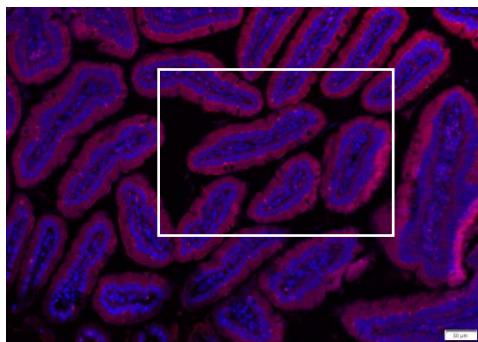
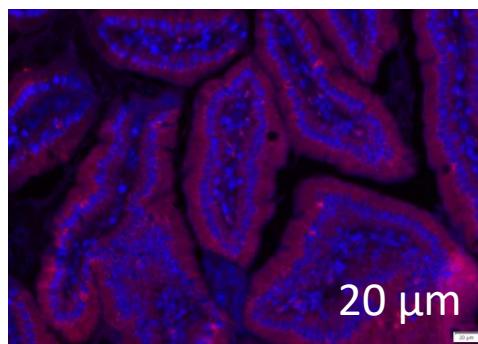
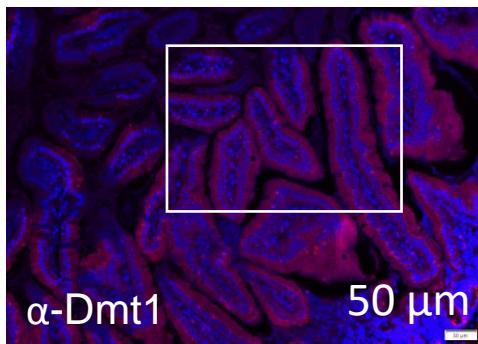
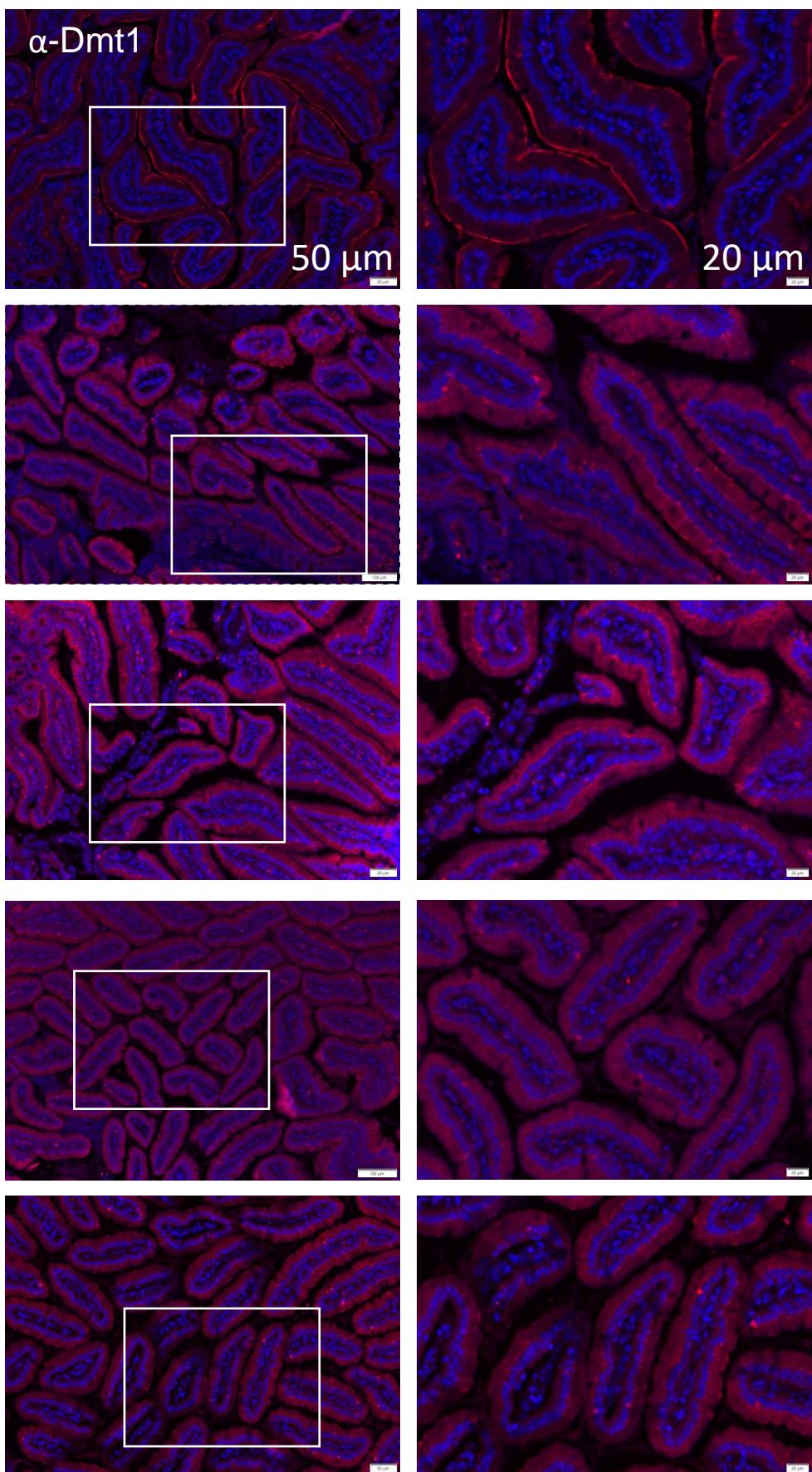


Figure S1



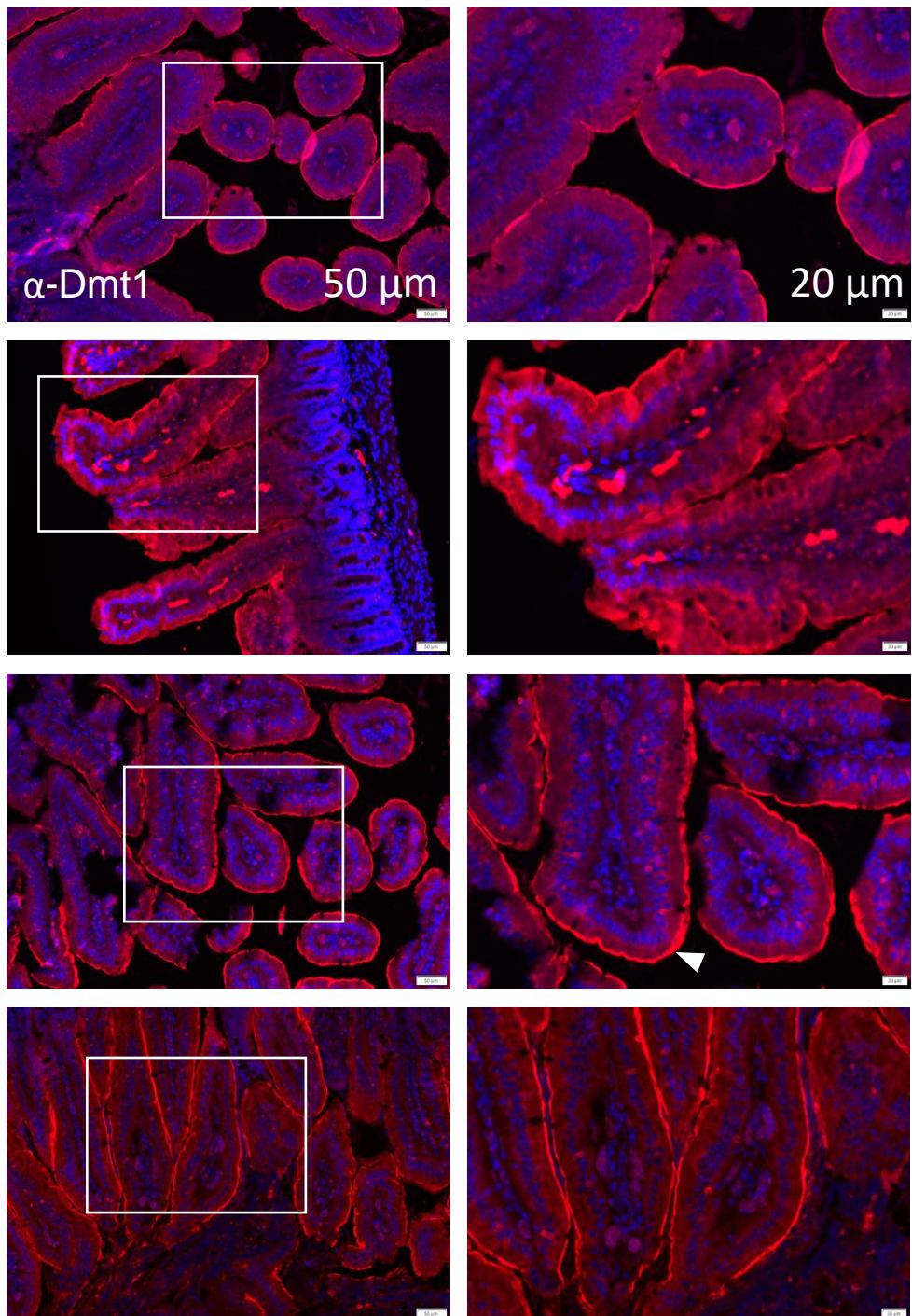
Female *Slc30a10^{+/+}*

Figure S2

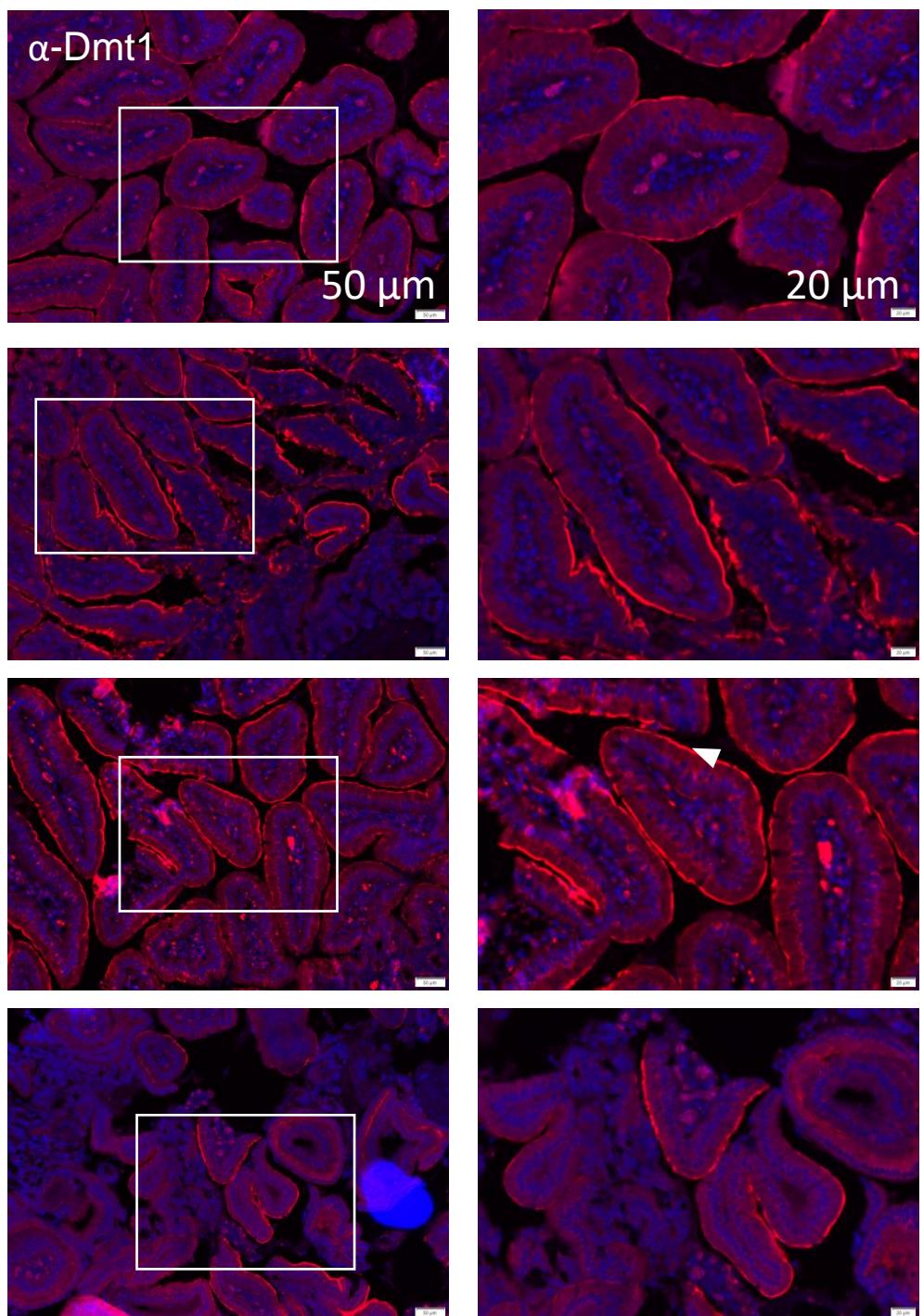


Male *Slc30a10*^{+/+}

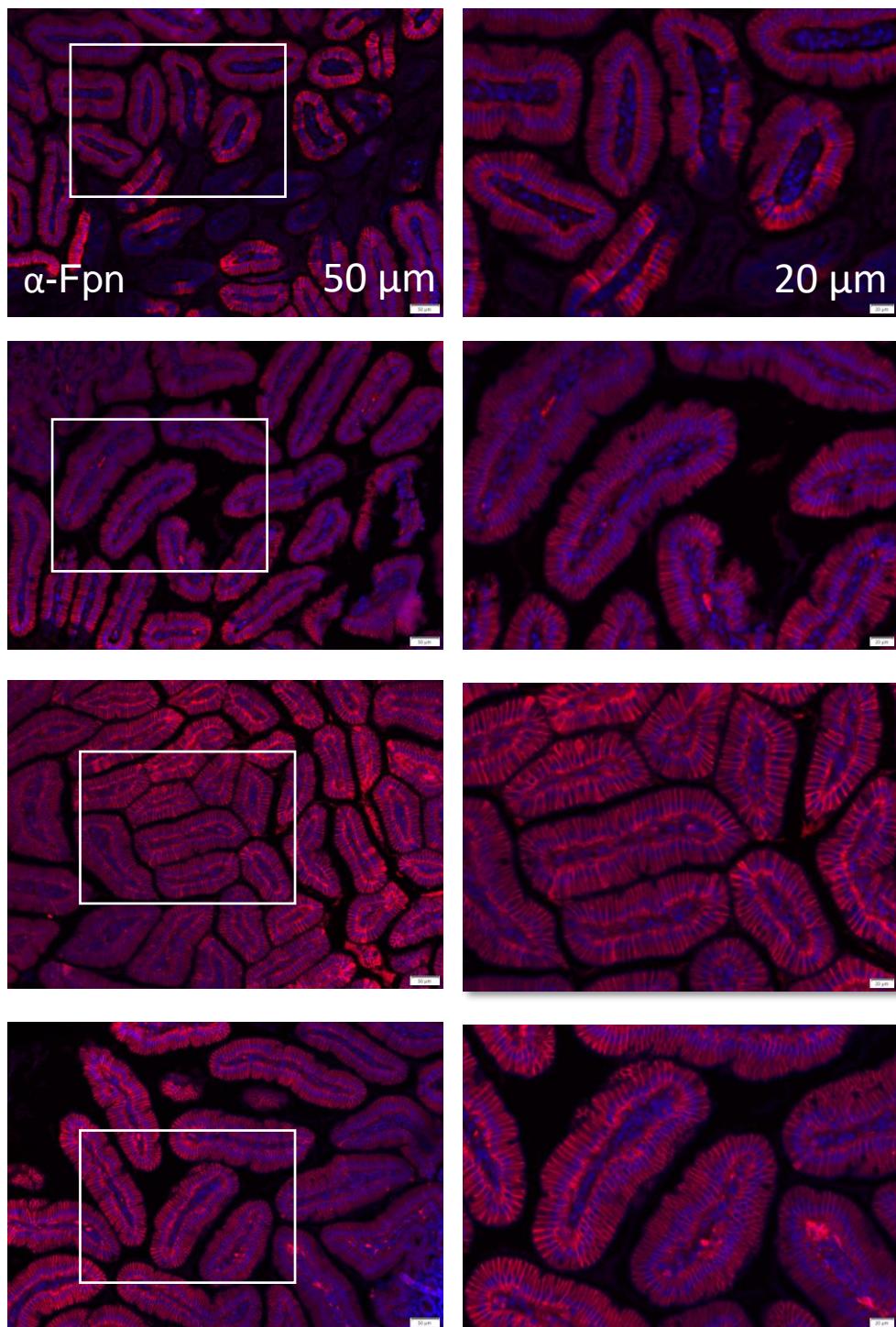
Figure S3



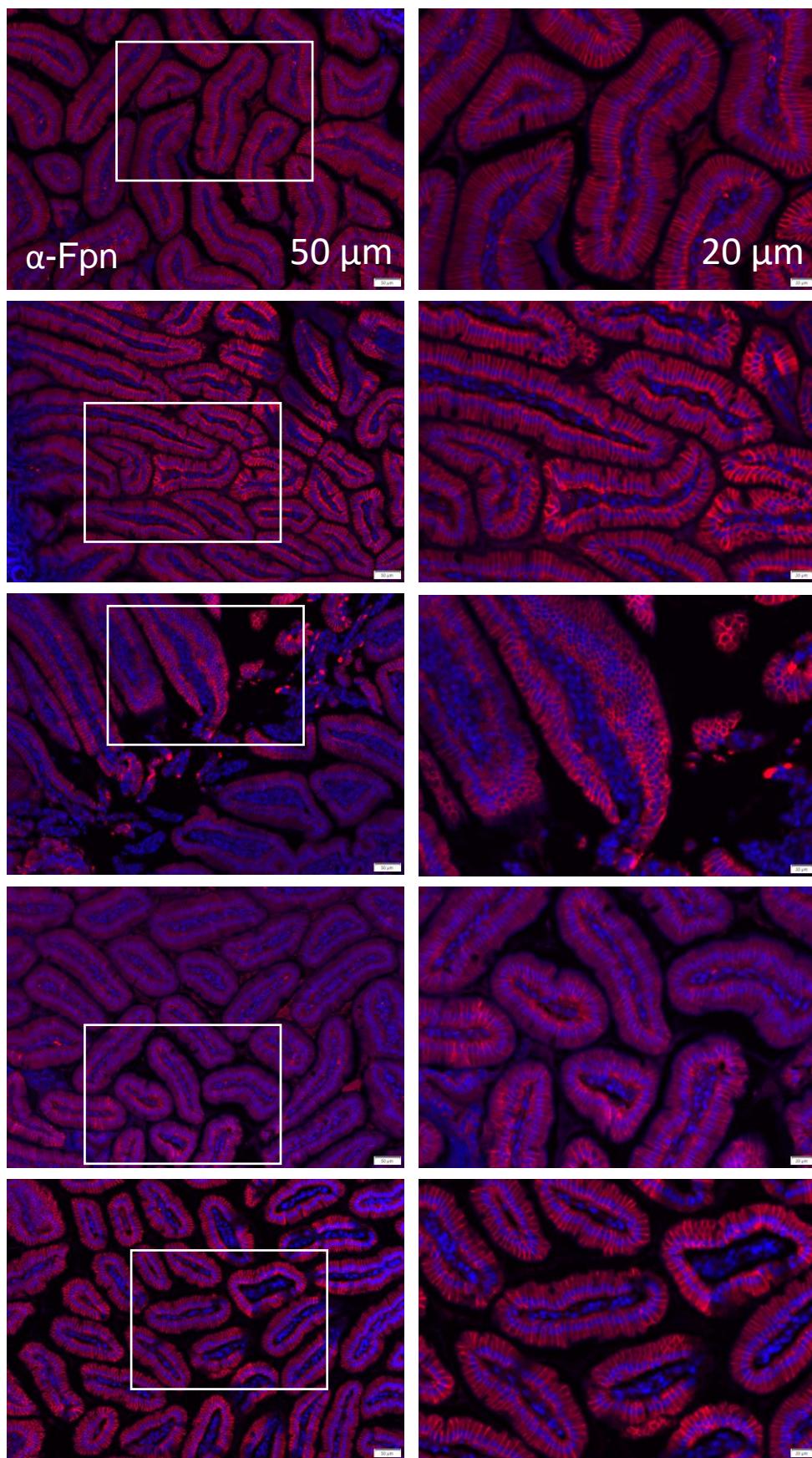
Female *Slc30a10*^{-/-}



Male *Slc30a10*^{-/-}

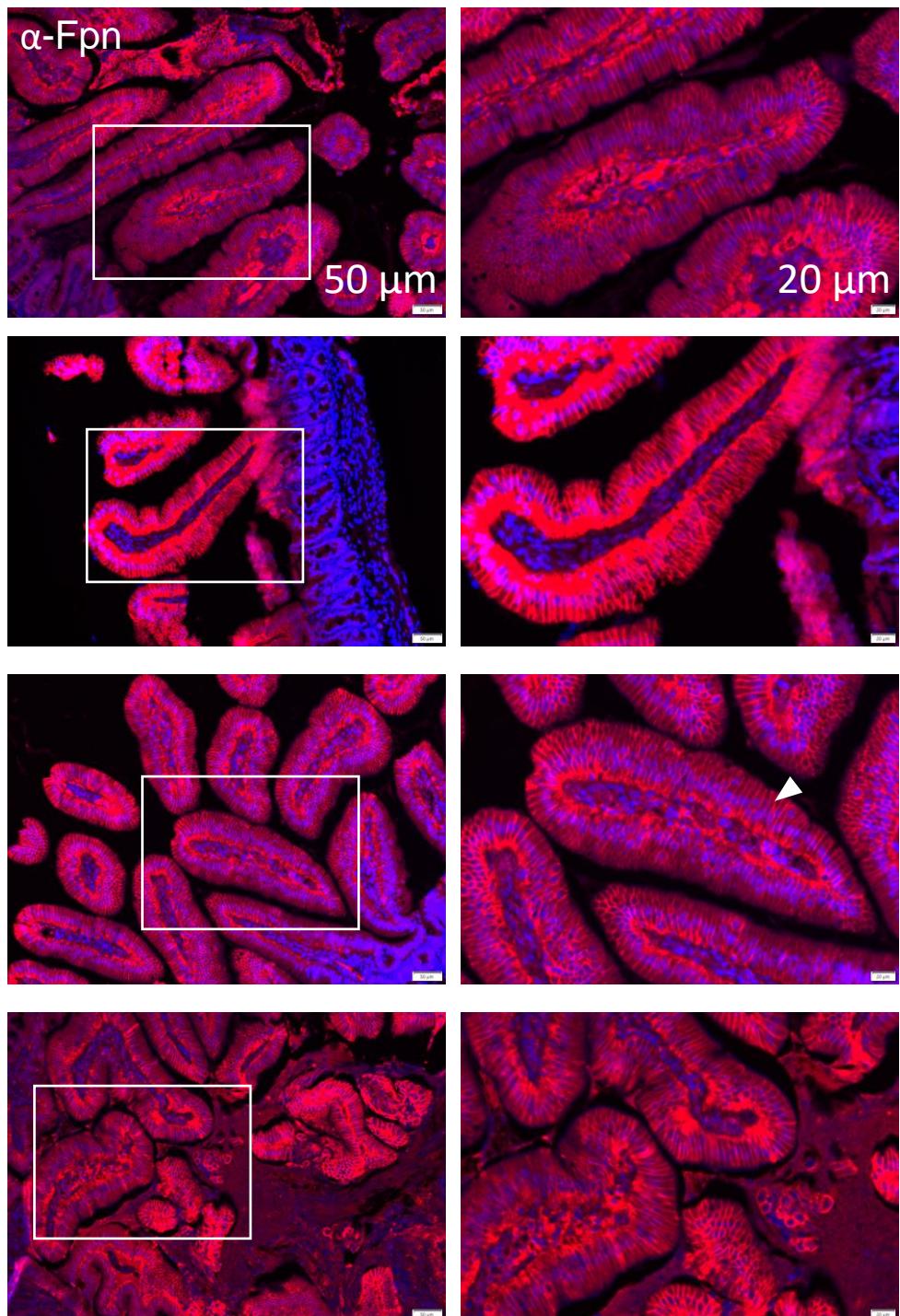


Female *Slc30a10*^{+/+}



Male *Slc30a10^{+/+}*

Figure S7



Female *Slc30a10*^{-/-}

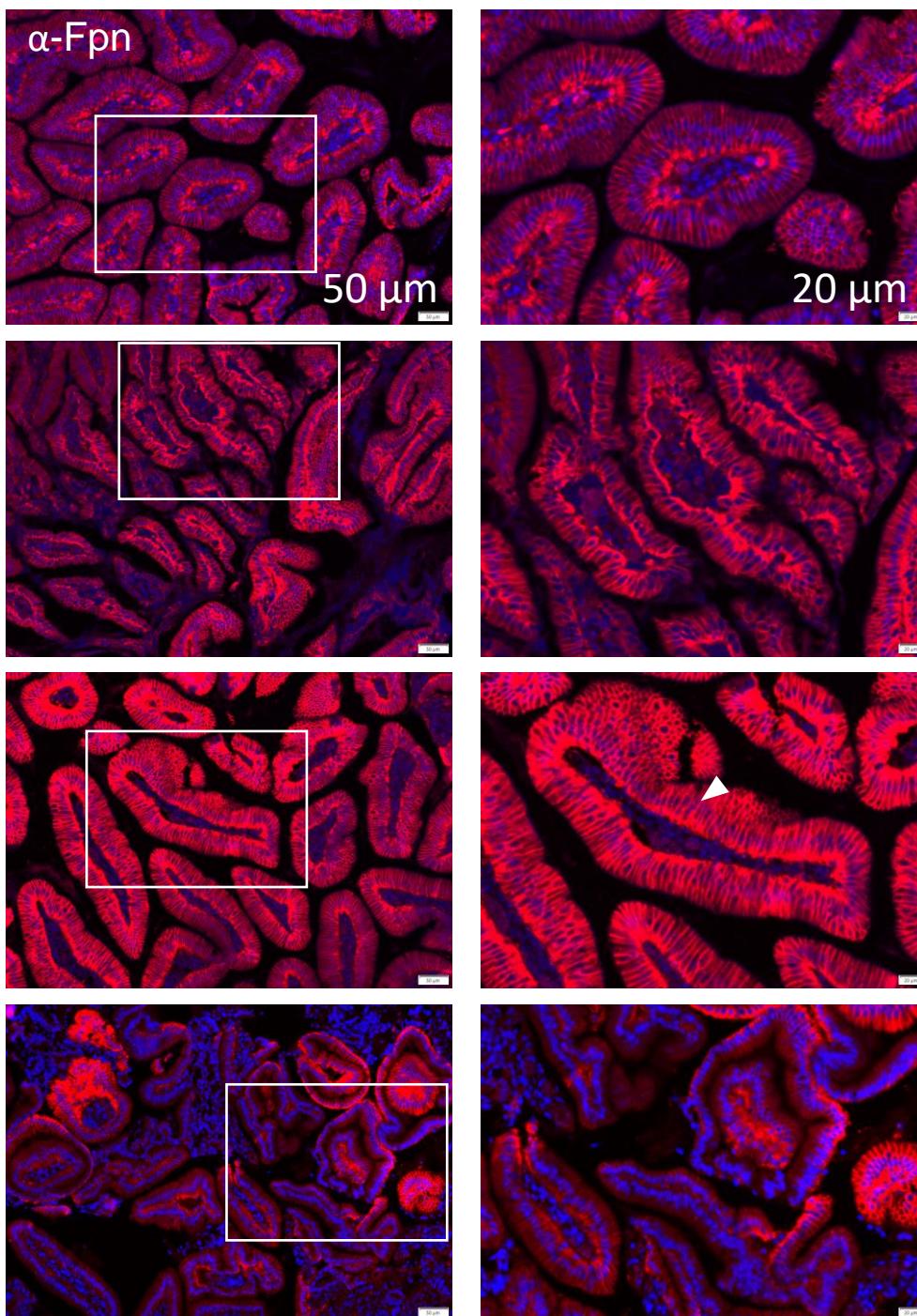


Figure S9

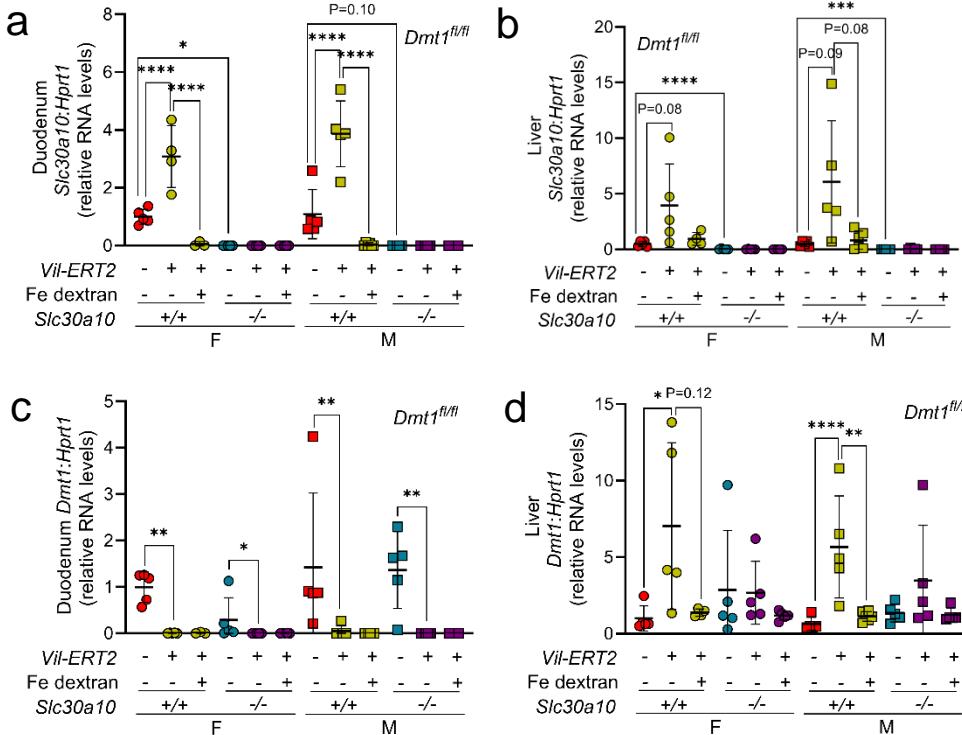
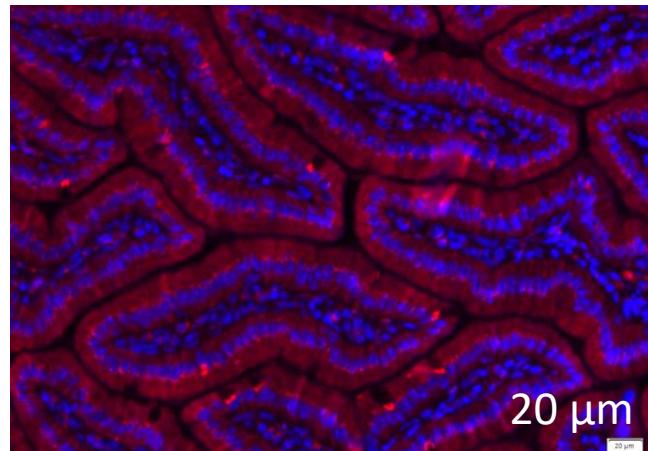
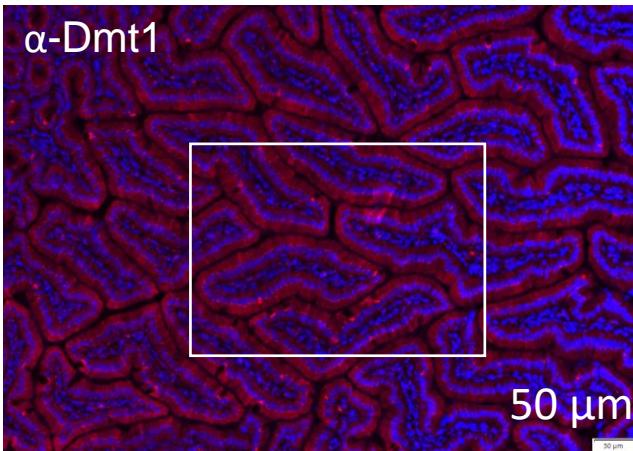


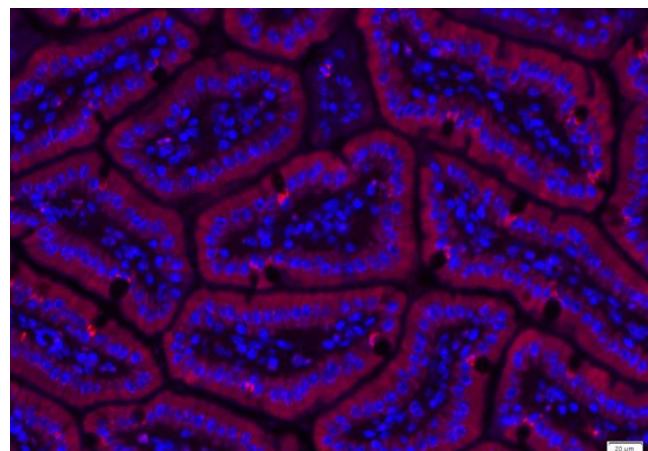
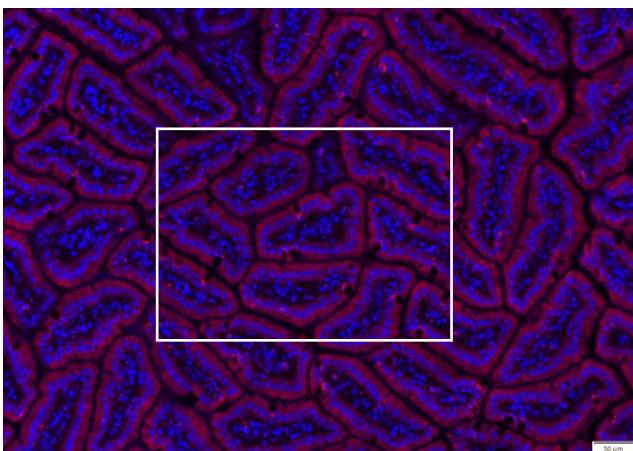
Figure S10

α -Dmt1

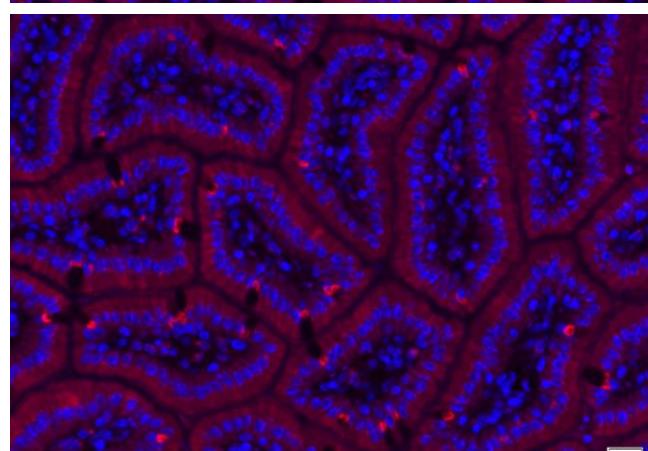
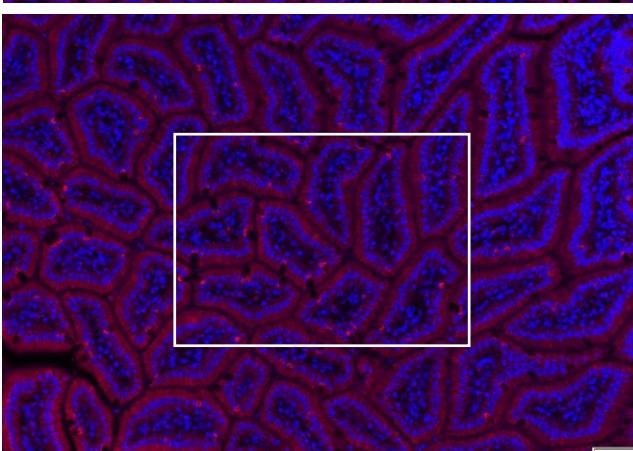
M



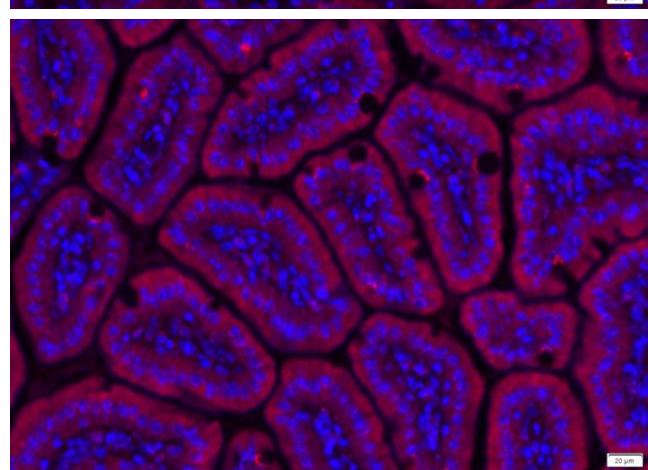
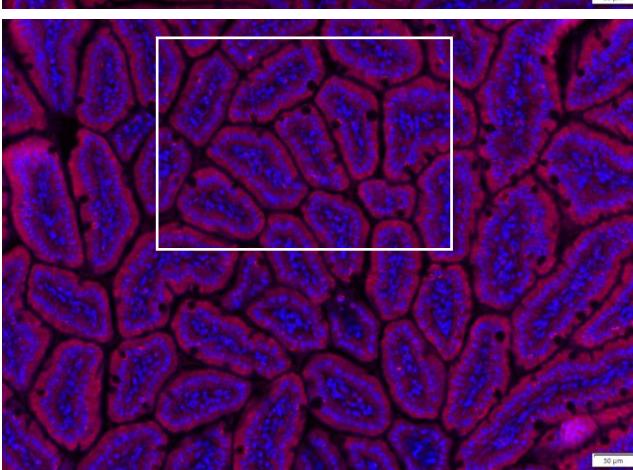
M



F



F



Slc30a10^{+/+} Dmt1^{fl/fl}

Figure S11

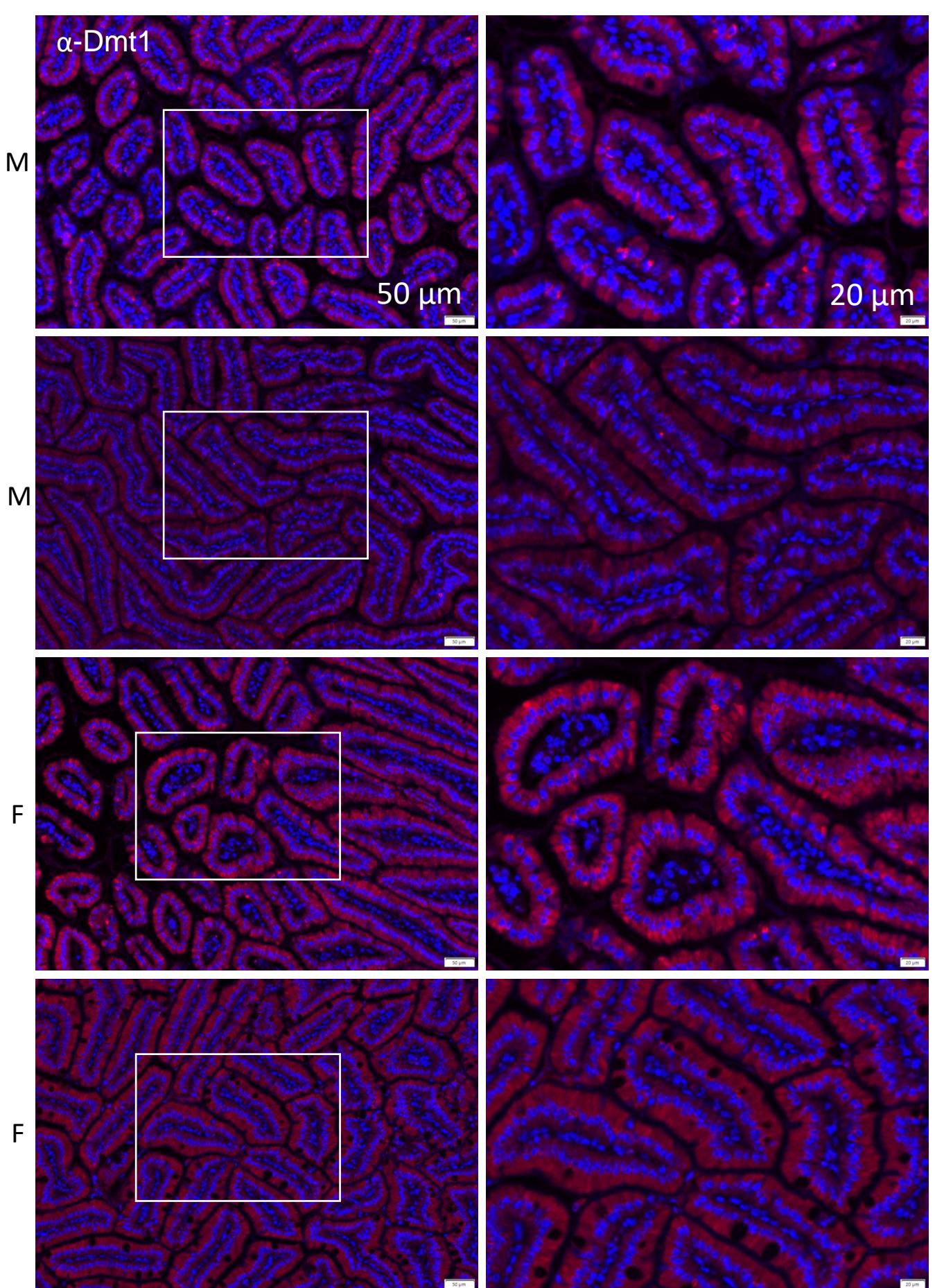
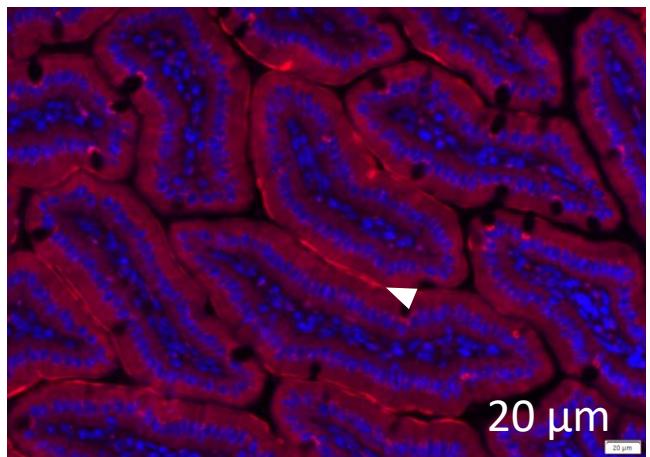
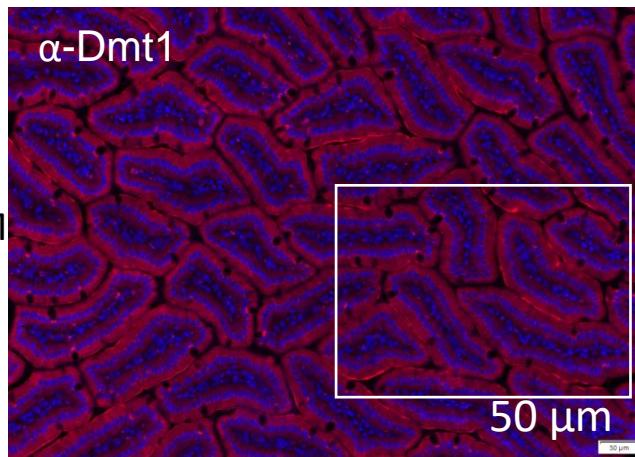


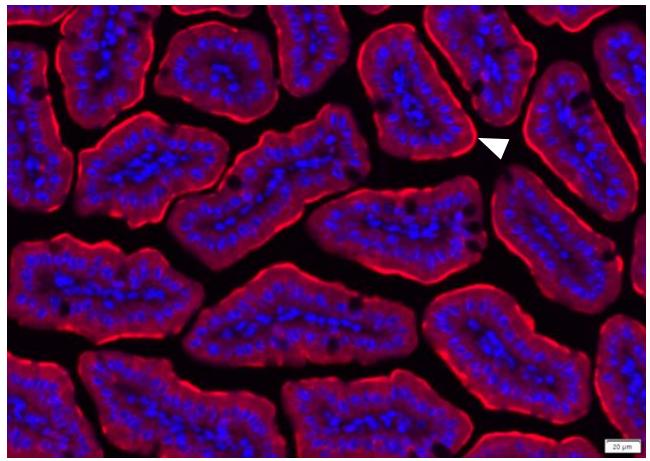
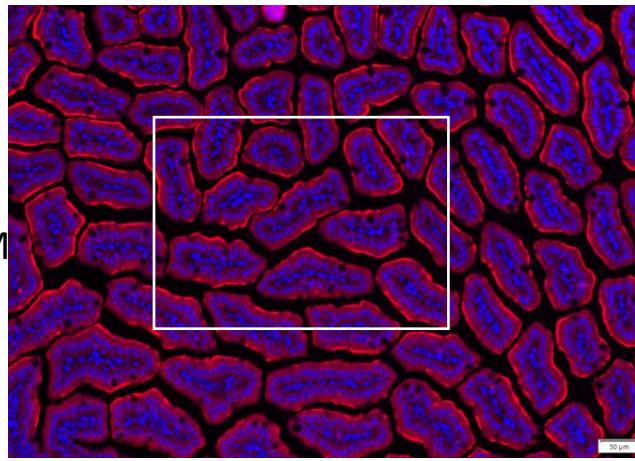
Figure S12

α -Dmt1

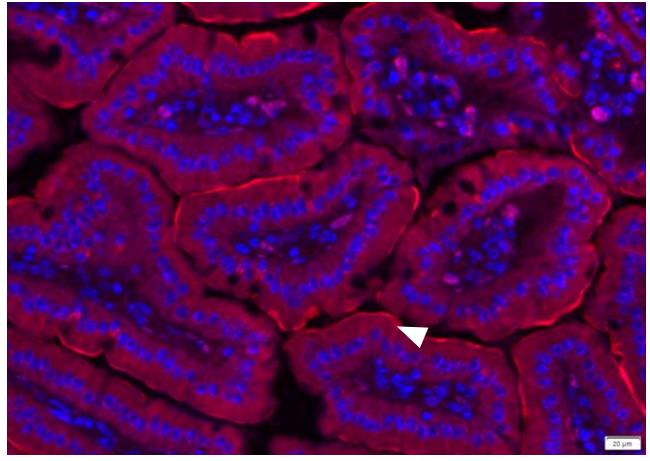
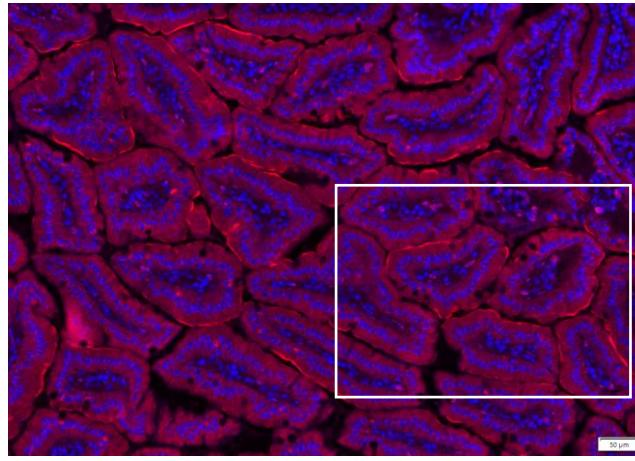
M



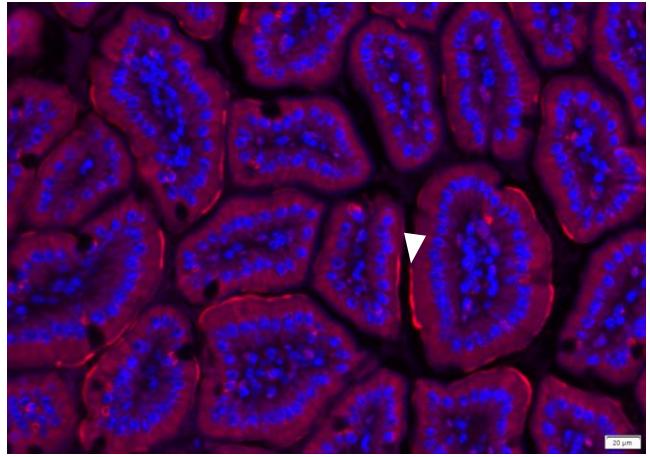
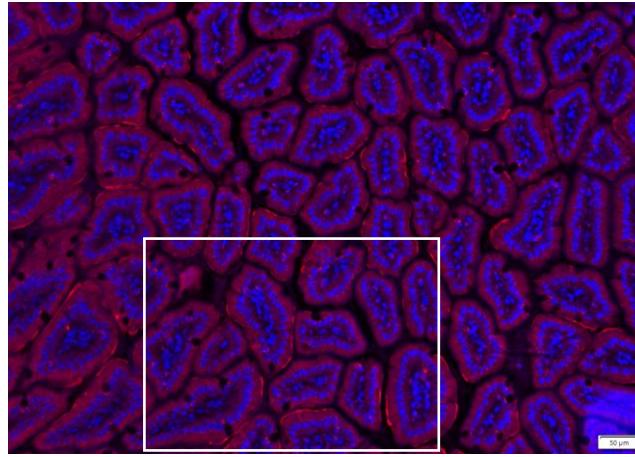
M



F



F

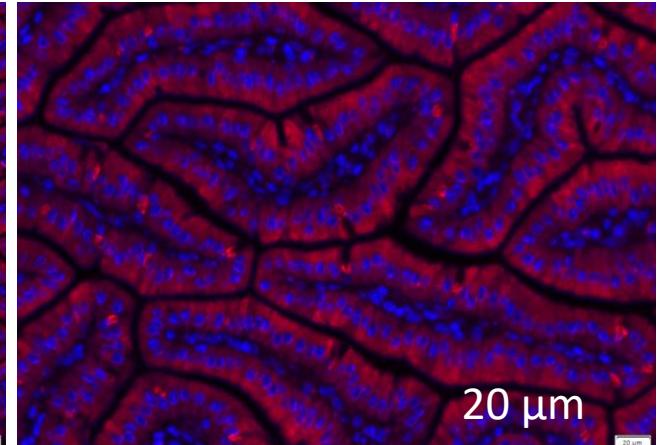
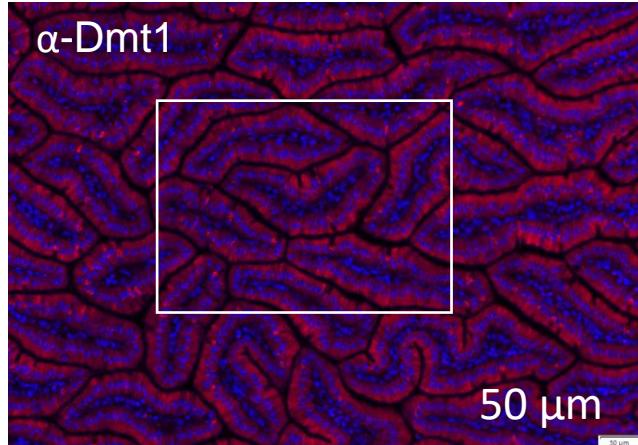


Slc30a10^{-/-} Dmt1^{fl/fl}

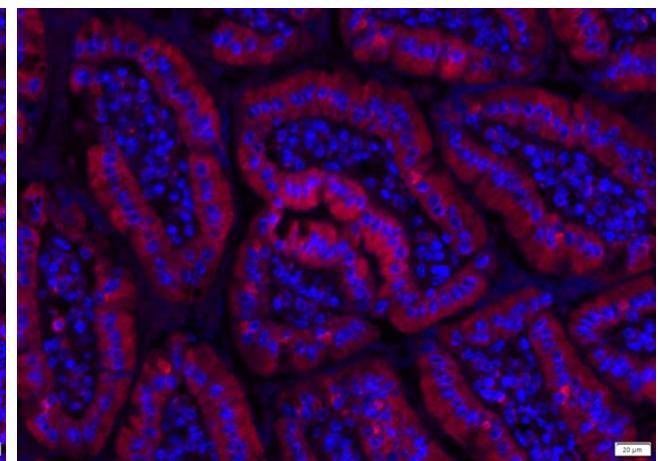
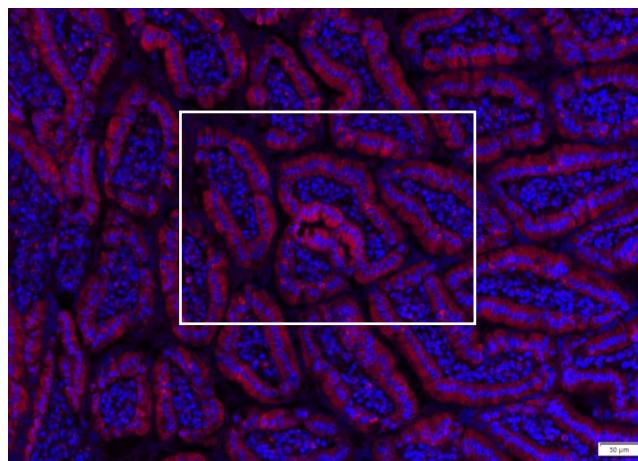
Figure S13

α -Dmt1

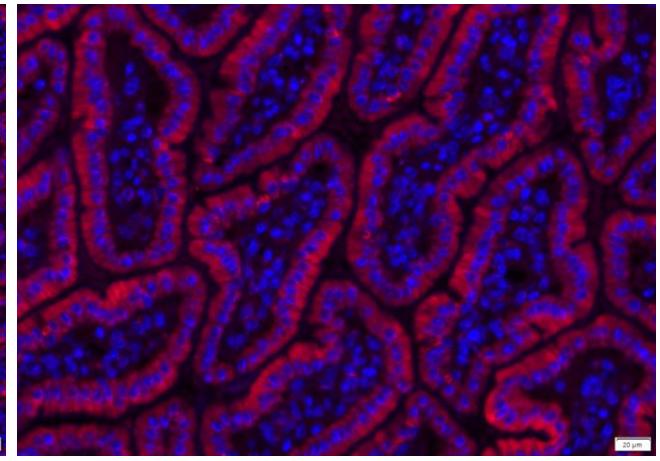
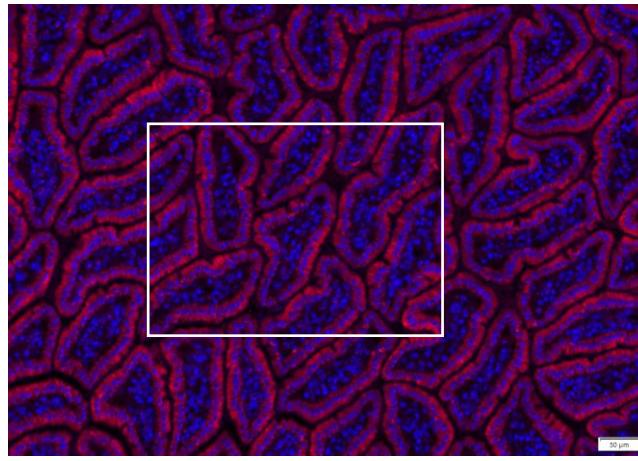
M



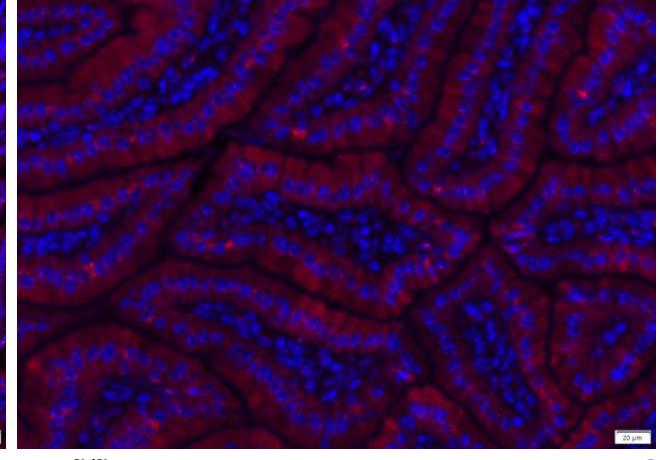
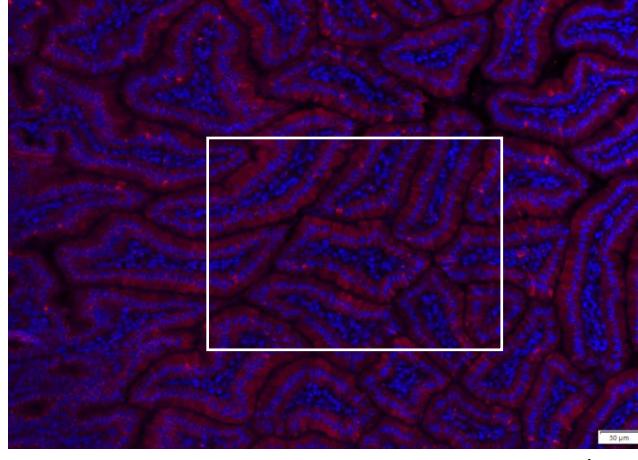
M



F



F



Slc30a10^{-/-} Dmt1^{fl/fl} Vil-ERT2

Figure S14

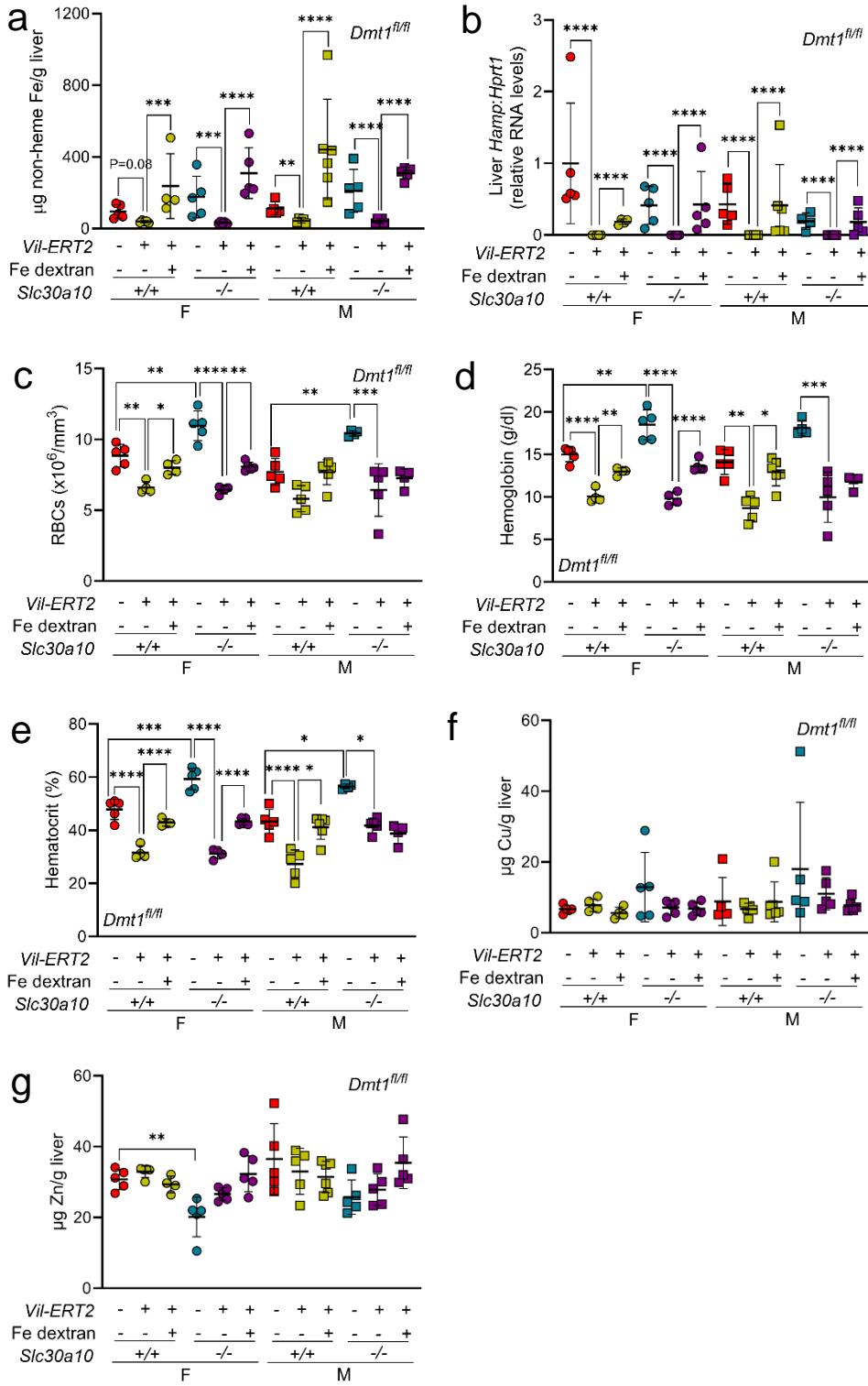


Figure S15

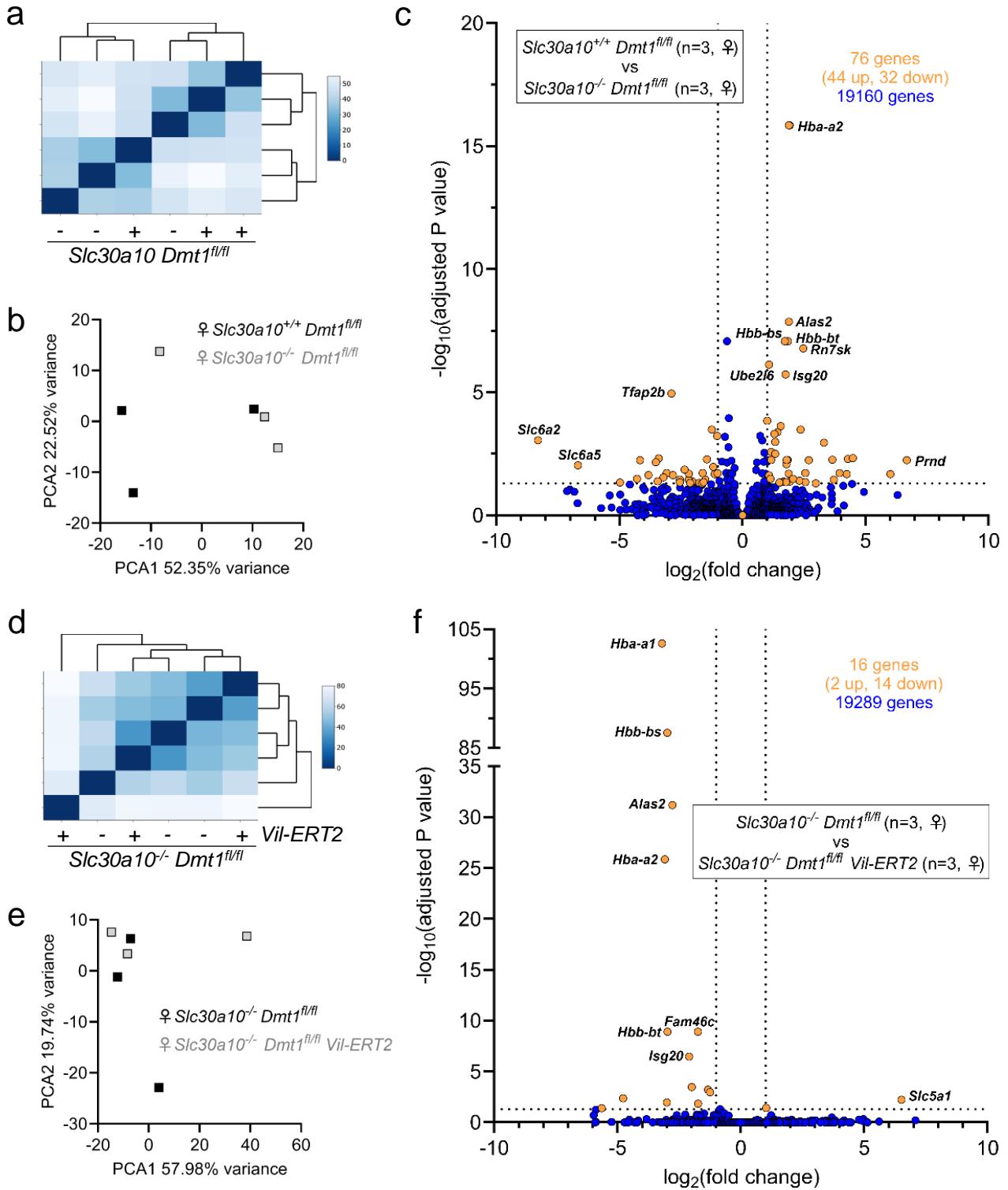


Figure S16

Slc30a10^{+/+} Dmt1^{f/f}
vs.
Slc30a10^{-/-} Dmt1^{f/f}

67

9

7

Slc30a10^{-/-} Dmt1^{f/f}
vs.
Slc30a10^{-/-} Dmt1^{f/f}
Vil-ERT2

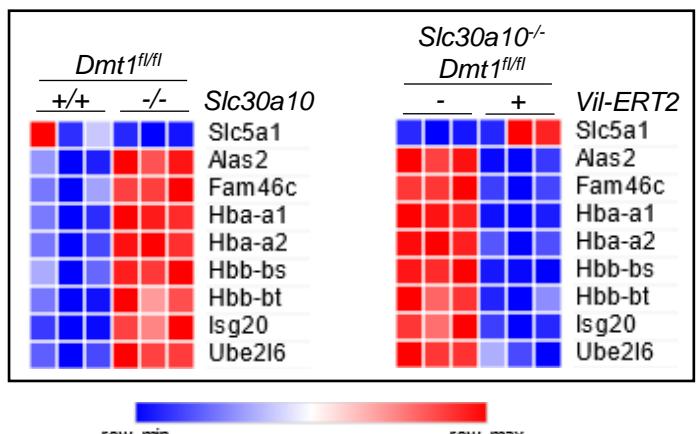
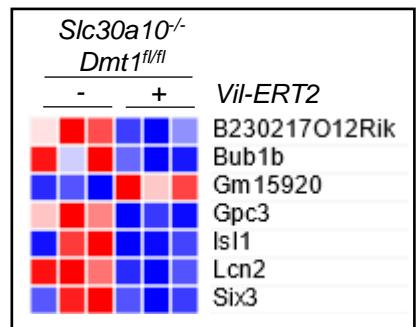
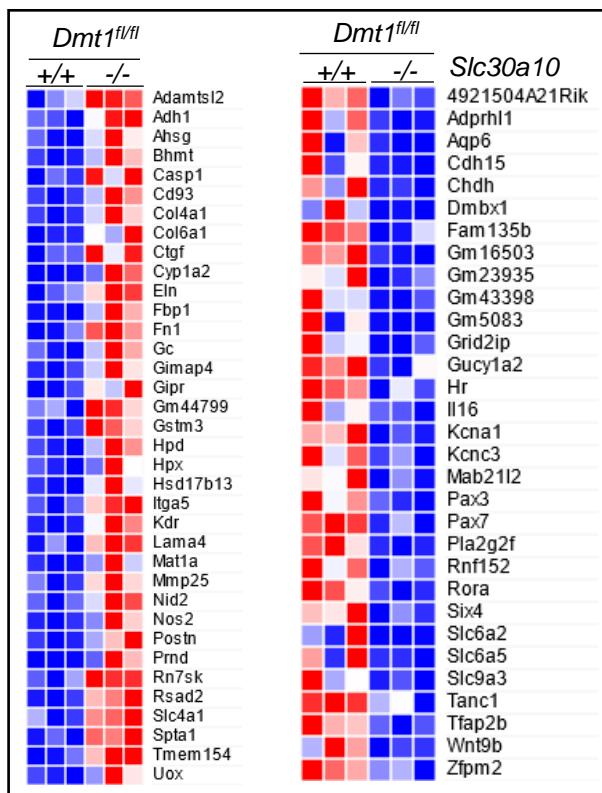


Figure S17

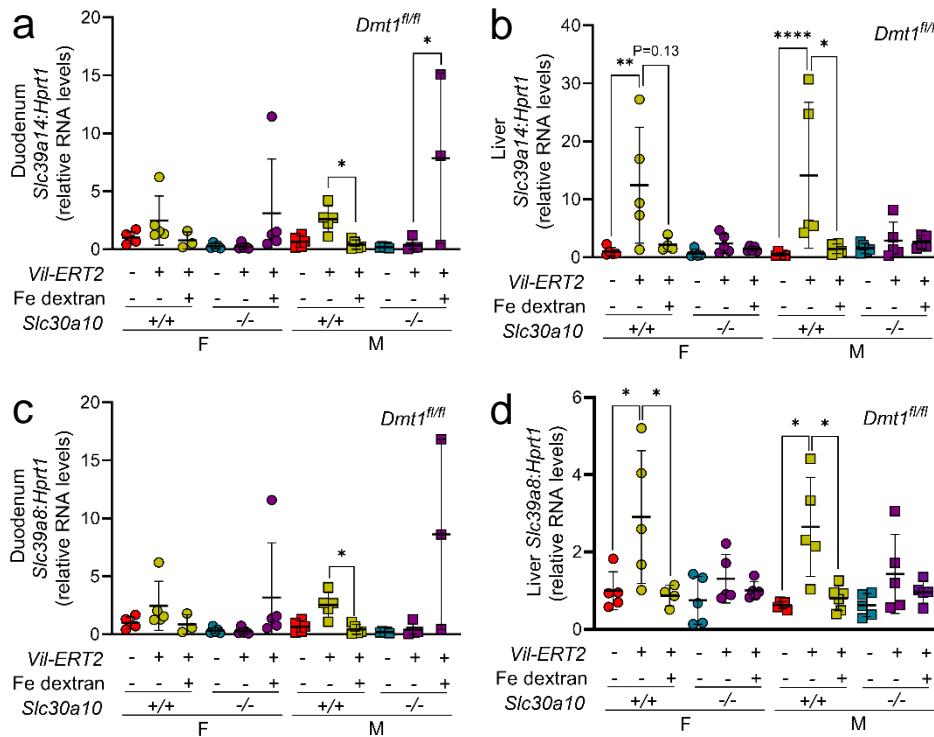


Figure S18

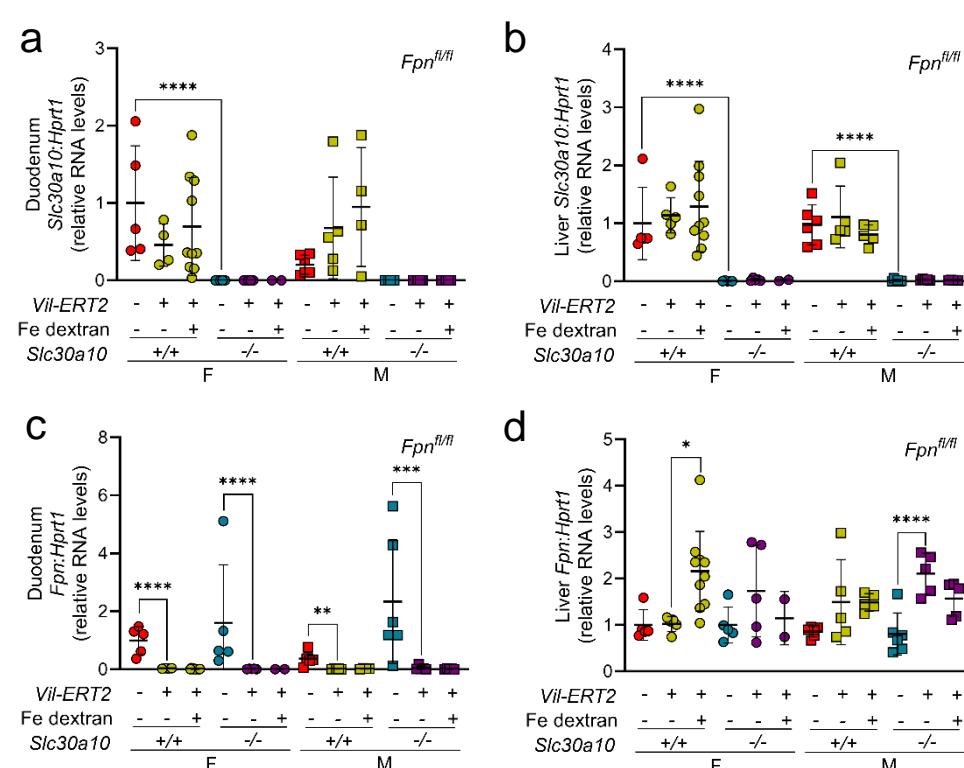
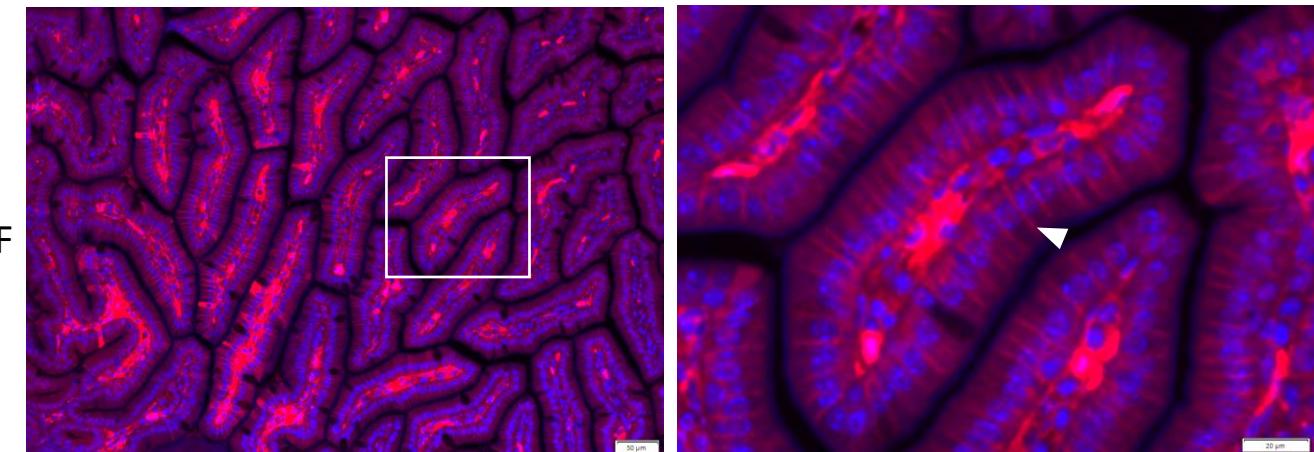
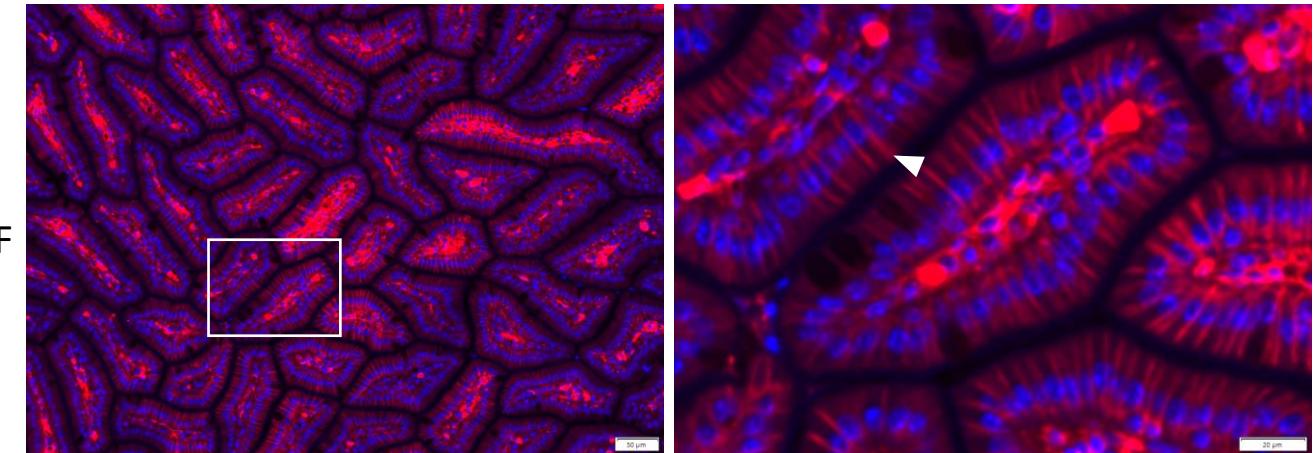
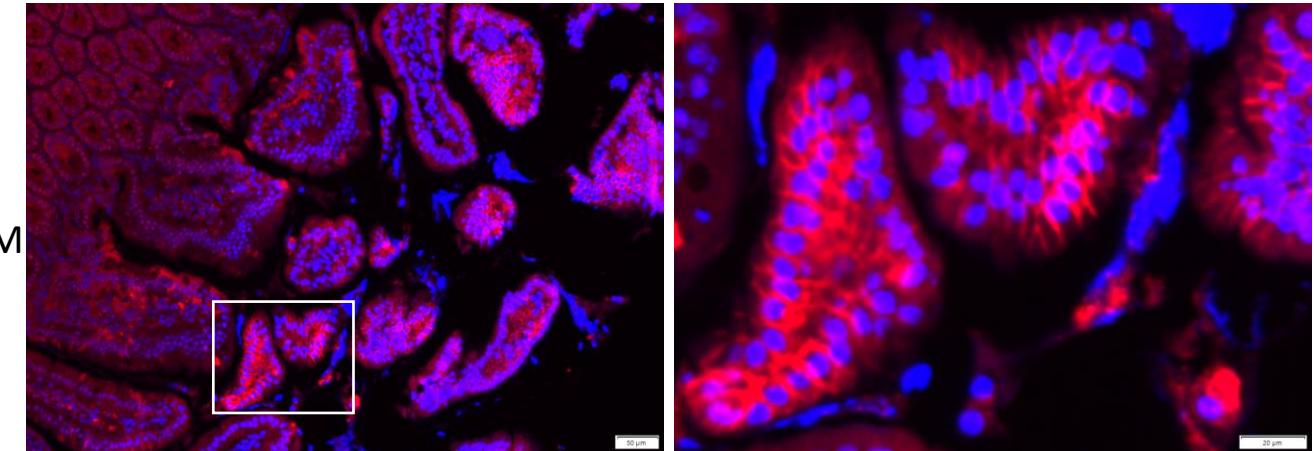
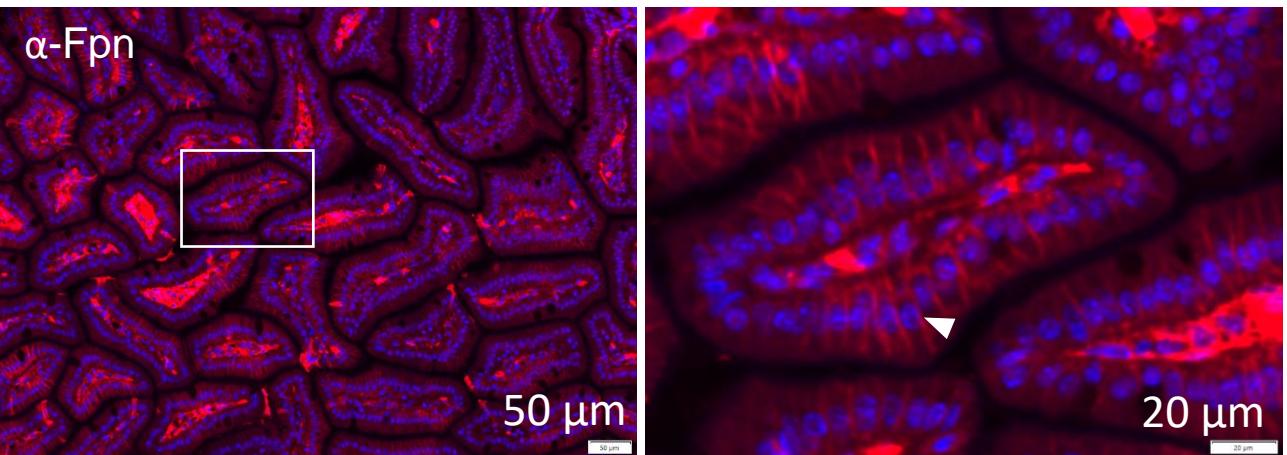
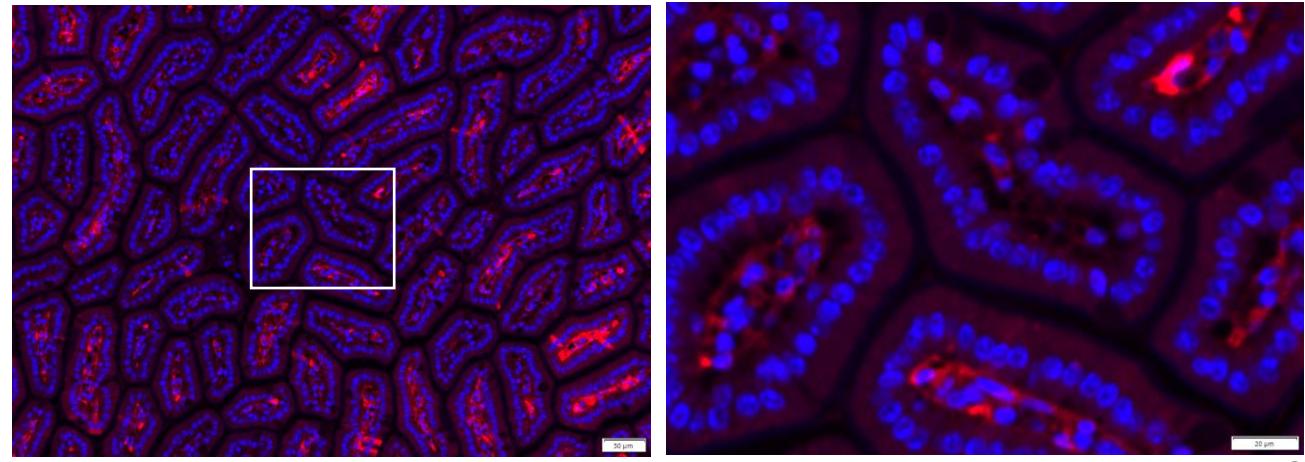
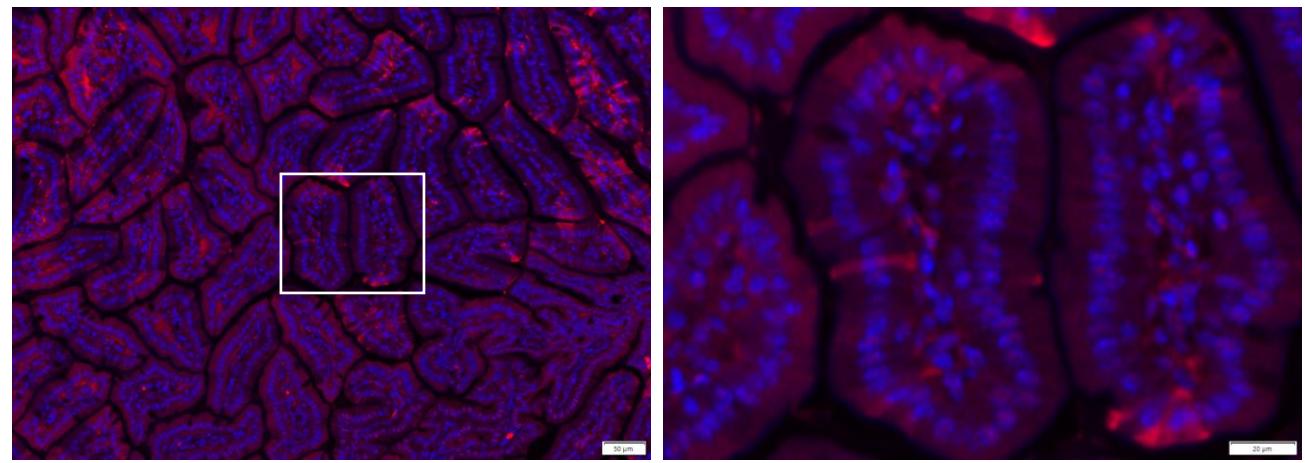
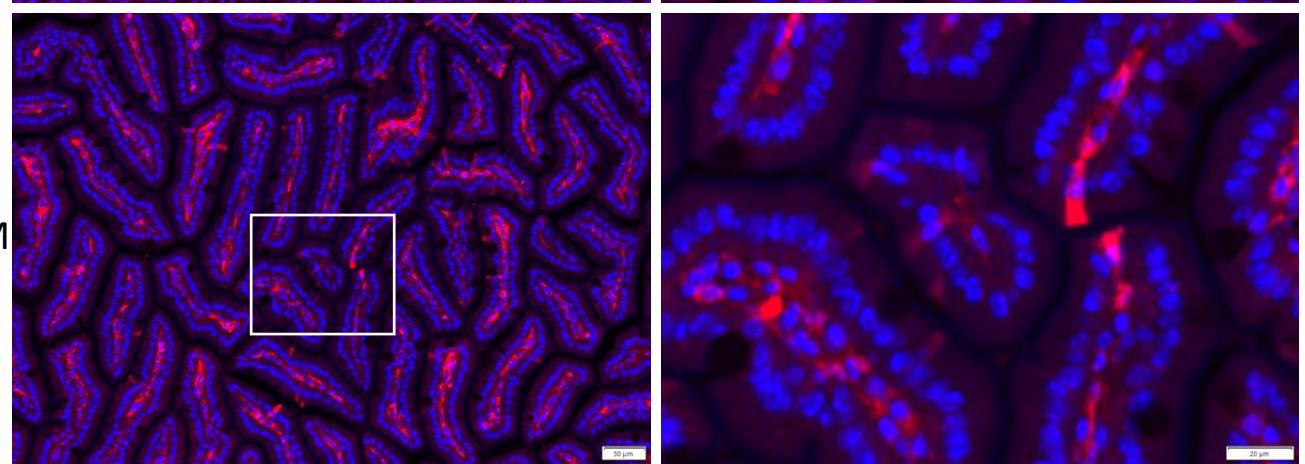
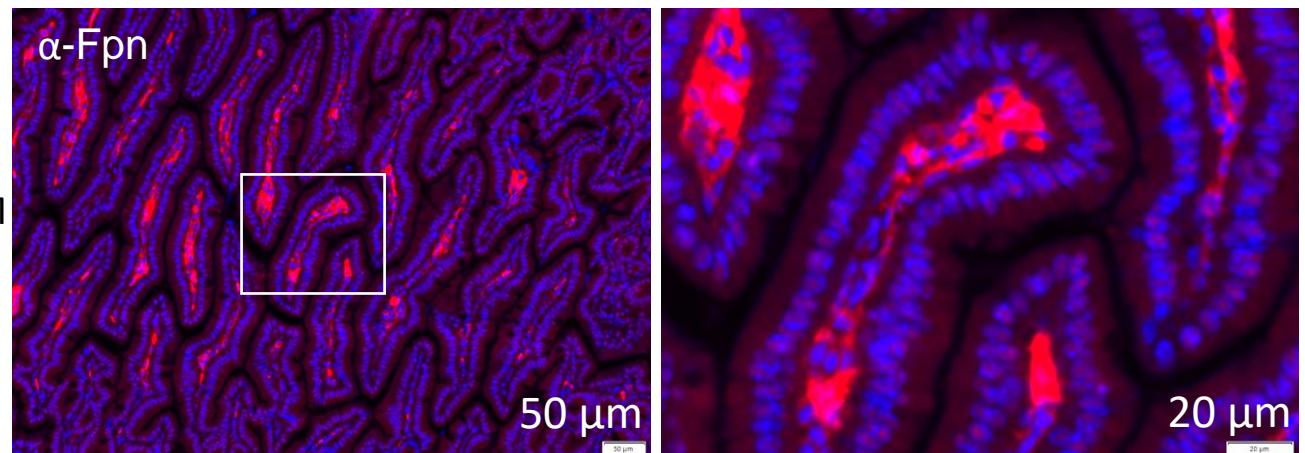


Figure S19



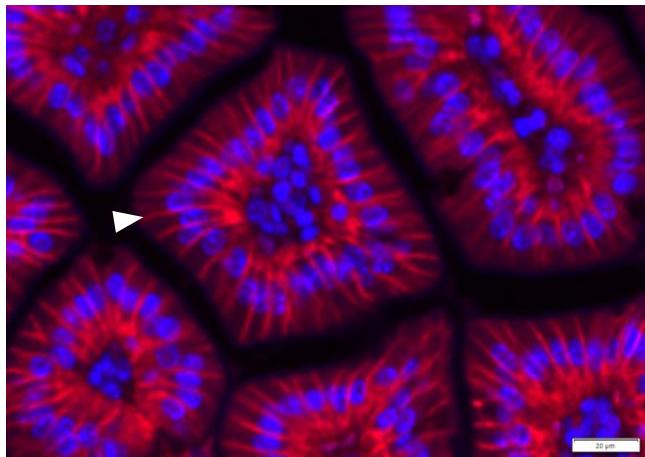
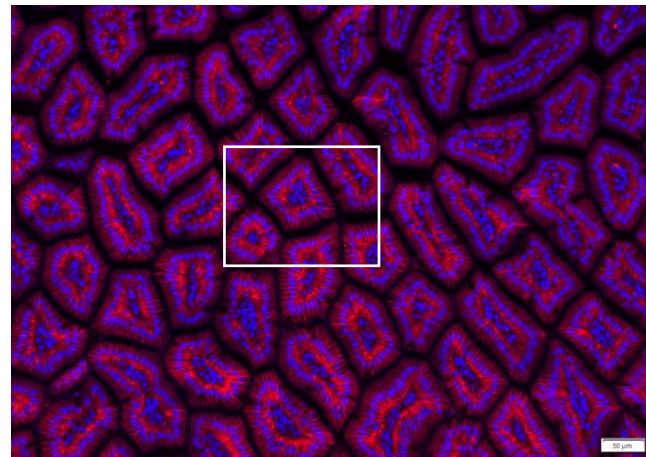
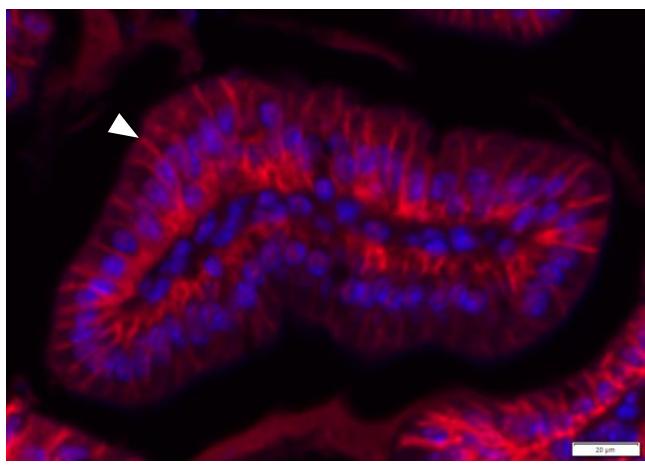
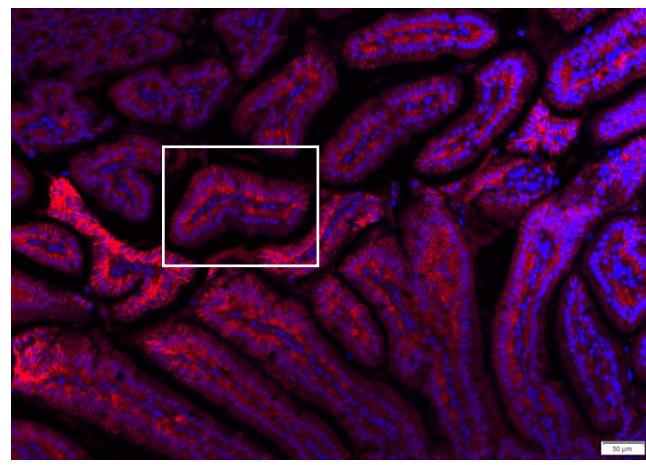
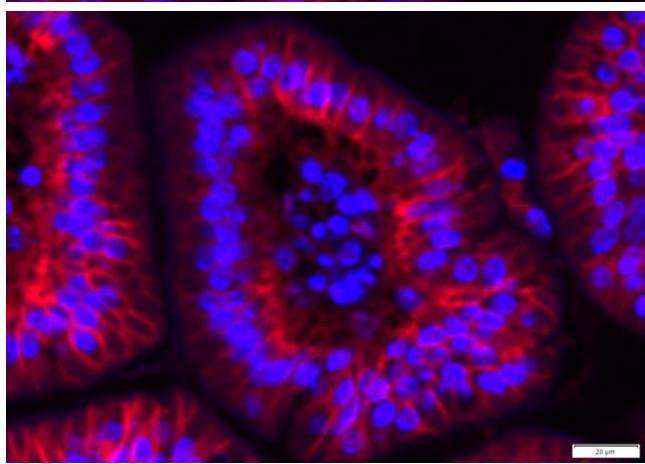
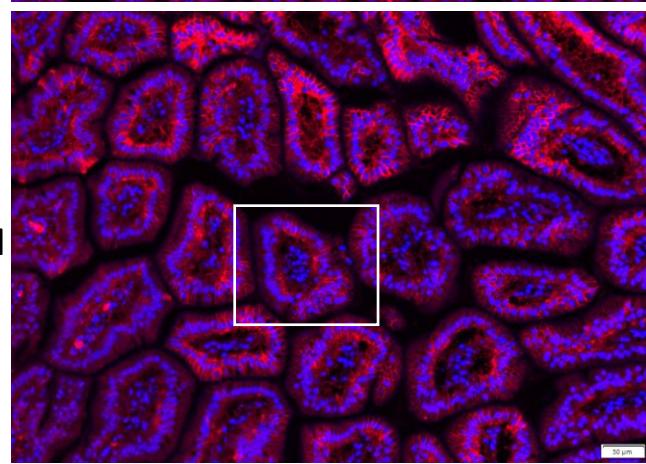
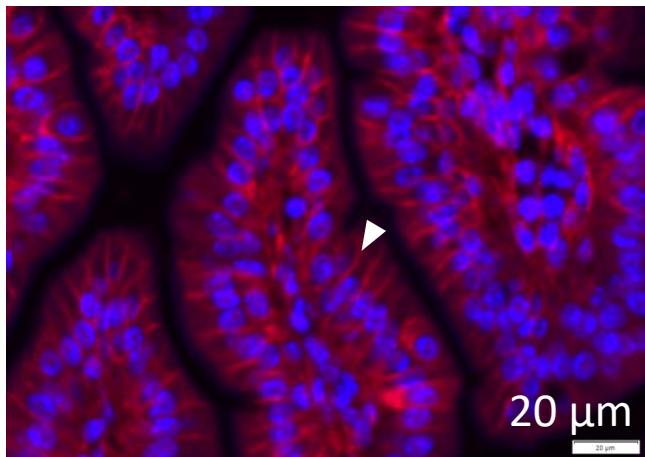
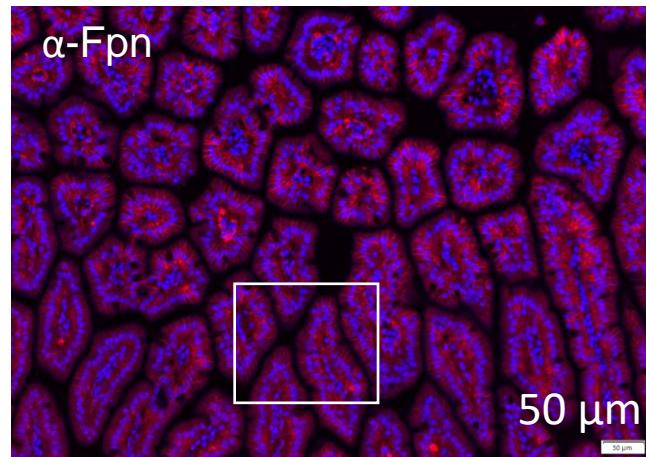
Slc30a10^{+/+} Fpn^{fl/fl}

Figure S20



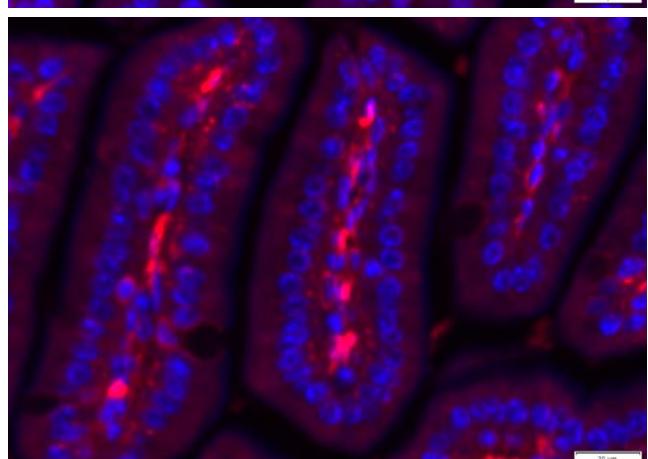
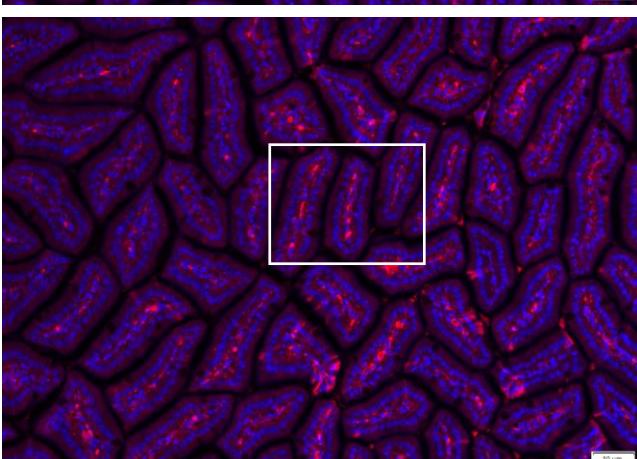
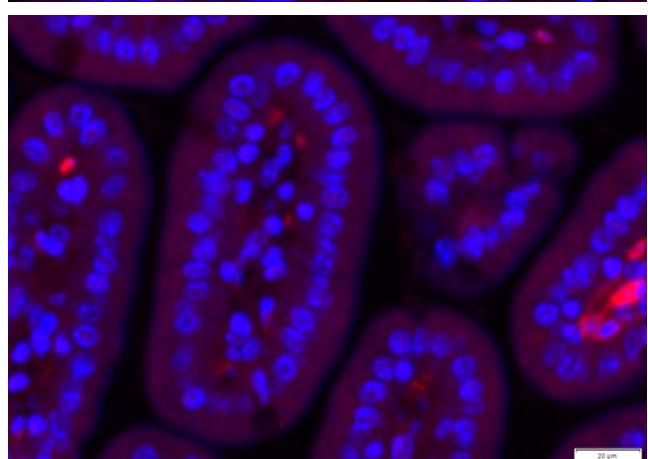
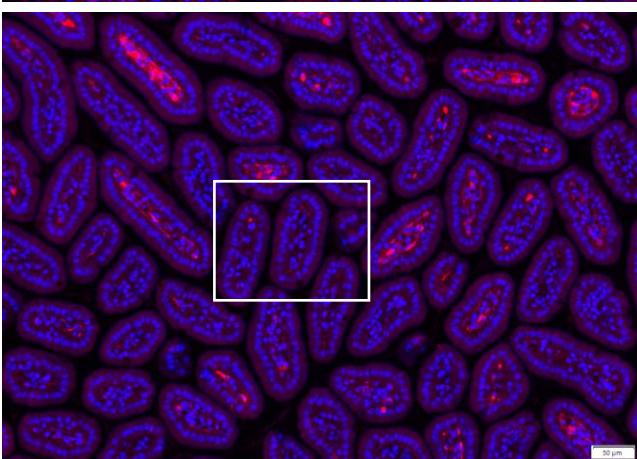
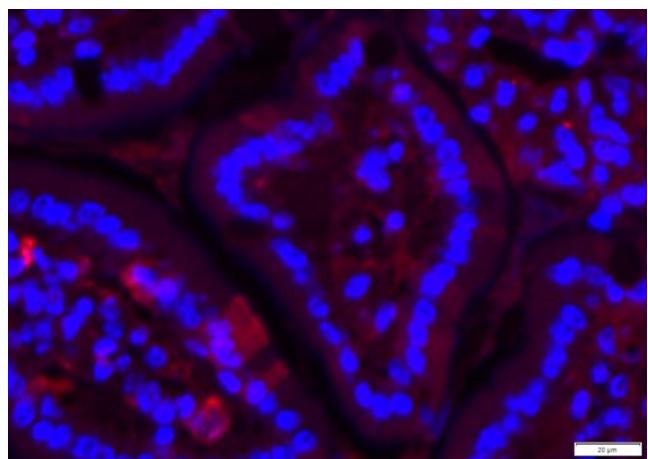
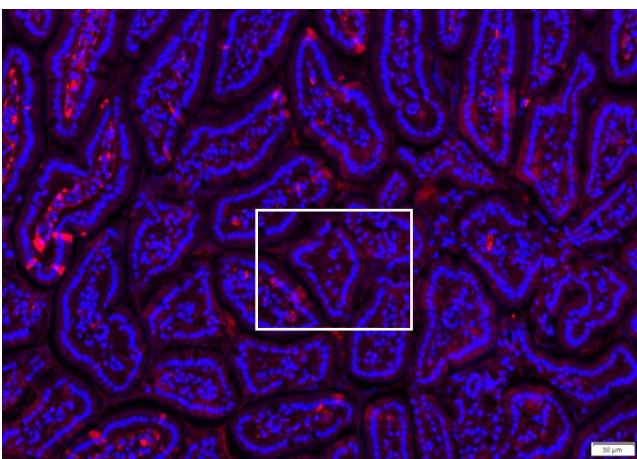
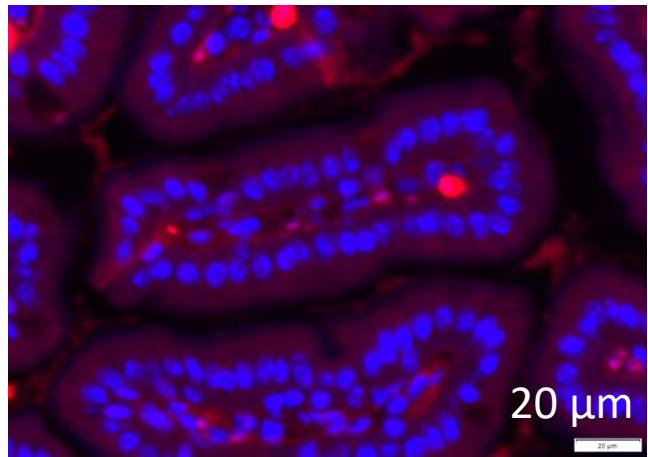
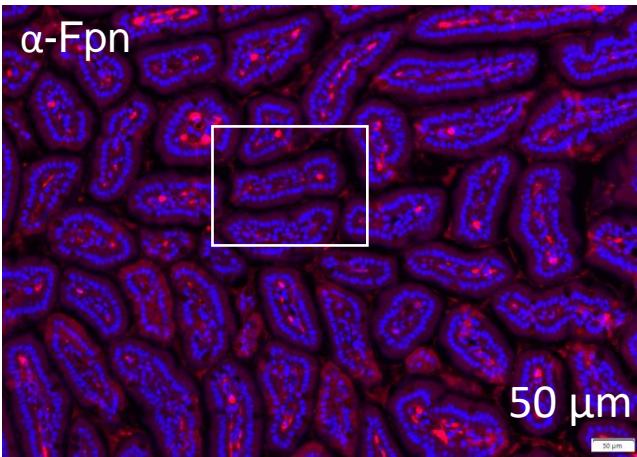
Slc30a10^{+/+} Fpn^{fl/fl} Vil-ERT2

Figure S21



Slc30a10^{-/-} Fpn^{fl/fl}

Figure S22



Slc30a10^{-/-} Fpn^{f/f} Vil-ERT2

Figure S23

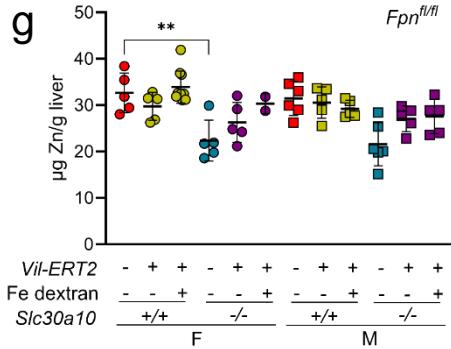
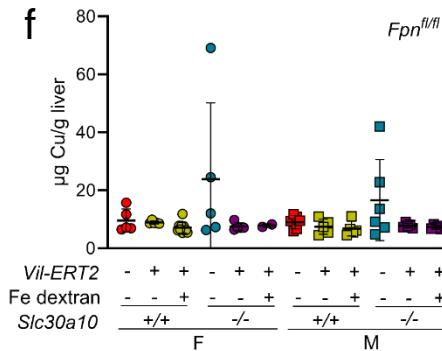
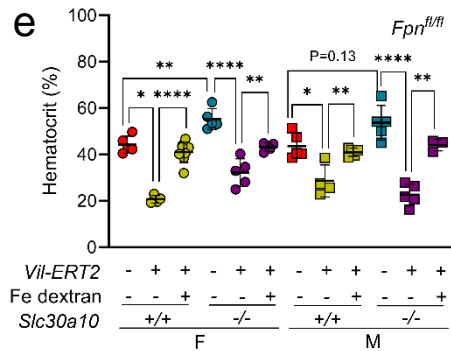
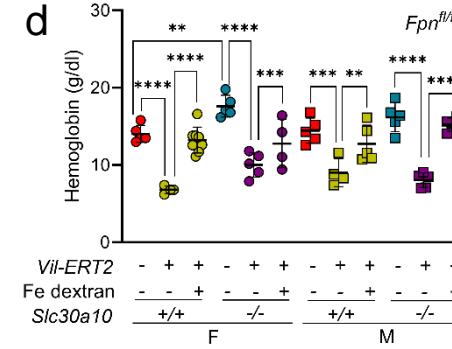
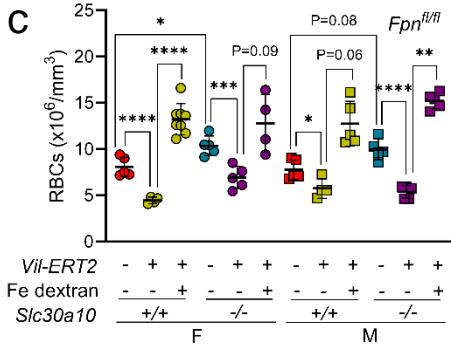
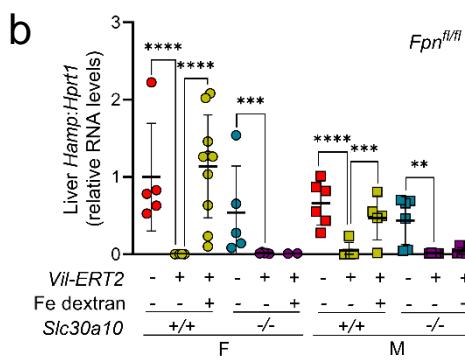
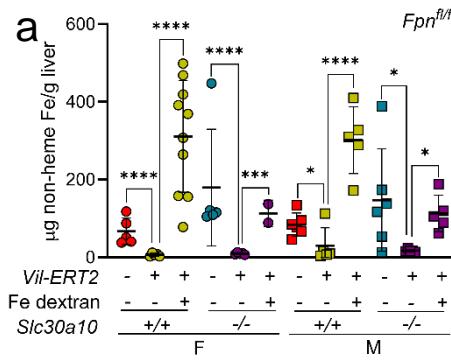


Figure S24

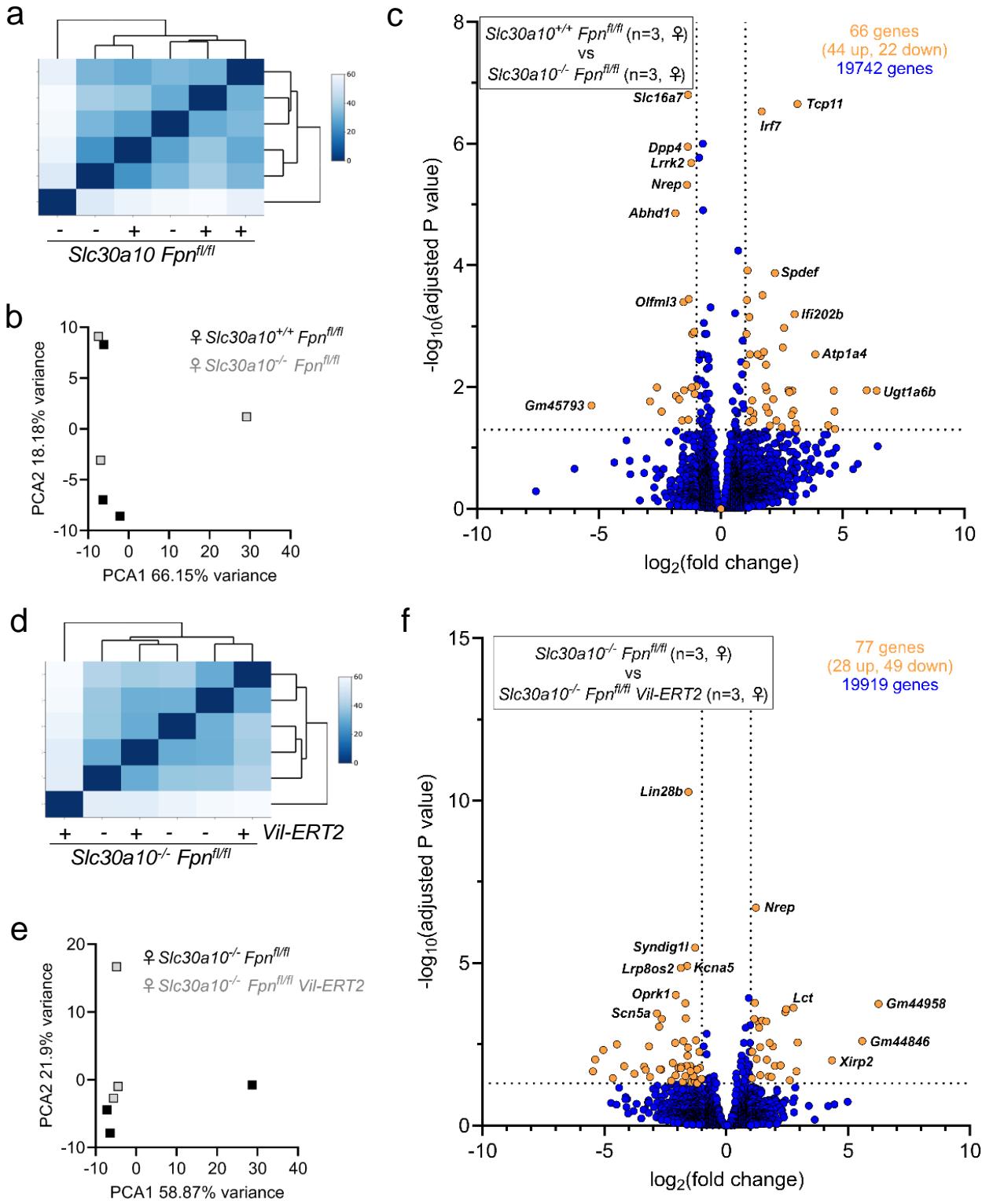


Figure S25

Slc30a10^{+/+} Fpn^{fl/fl}
vs.
Slc30a10^{-/-} Fpn^{fl/fl}

Slc30a10^{-/-} Fpn^{fl/fl}
vs.
Slc30a10^{-/-} Fpn^{fl/fl}
Vil-ERT2

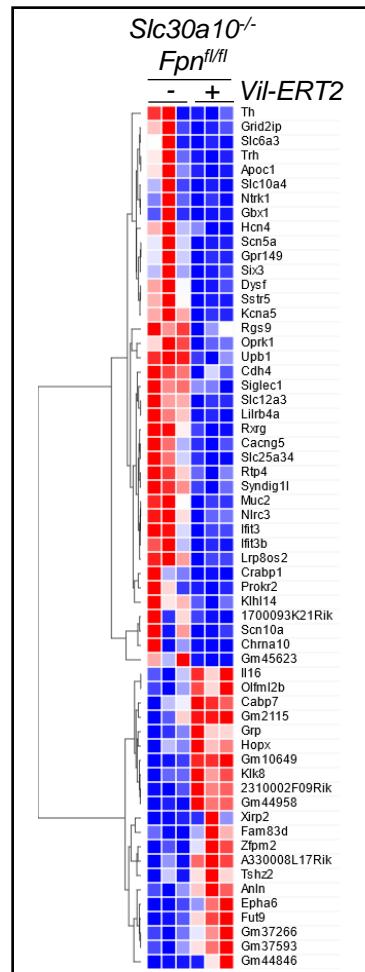
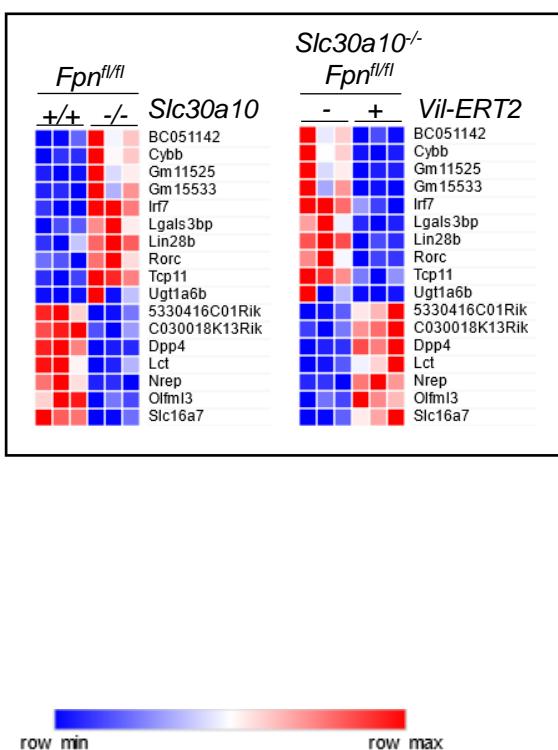
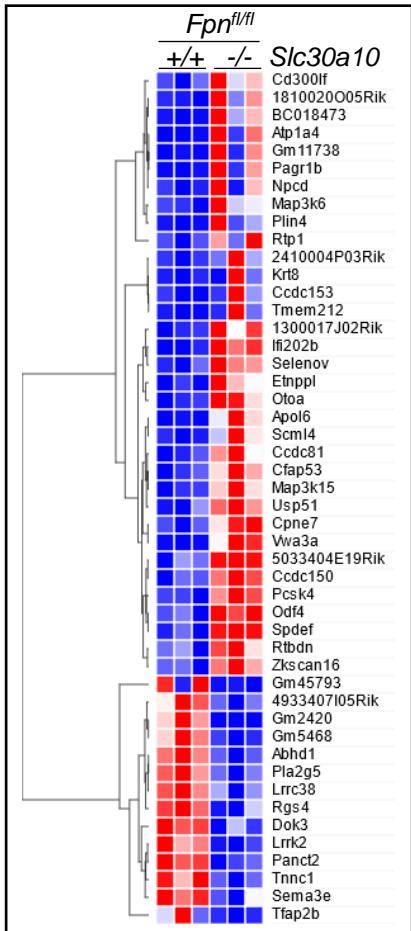


Figure S26

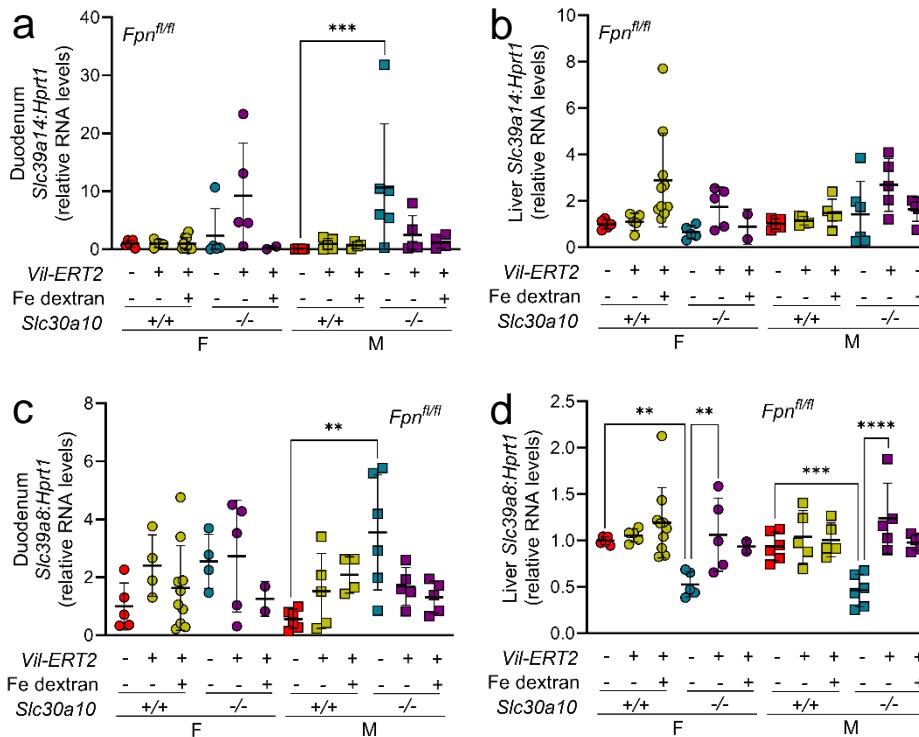


Figure S27

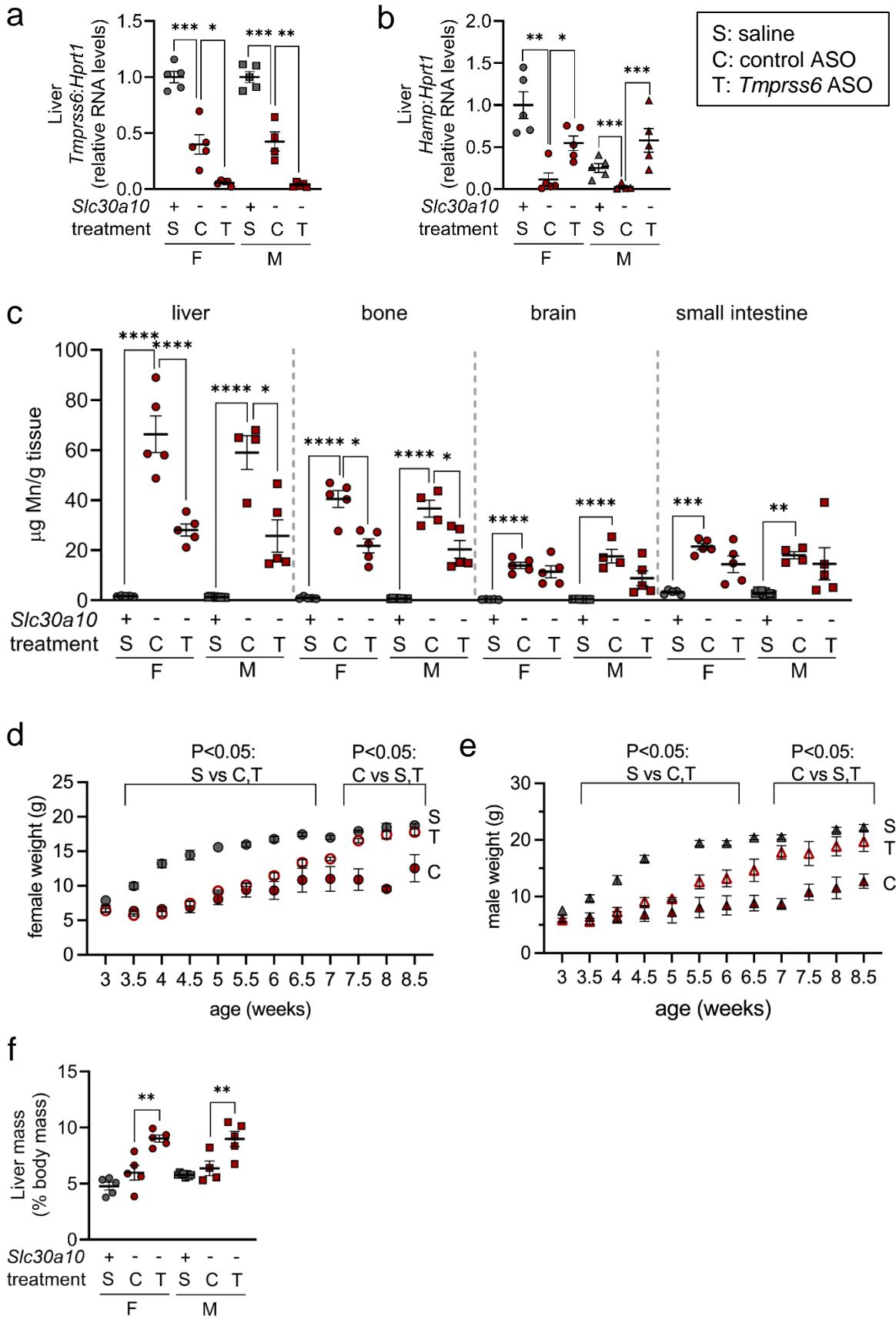


Figure S28

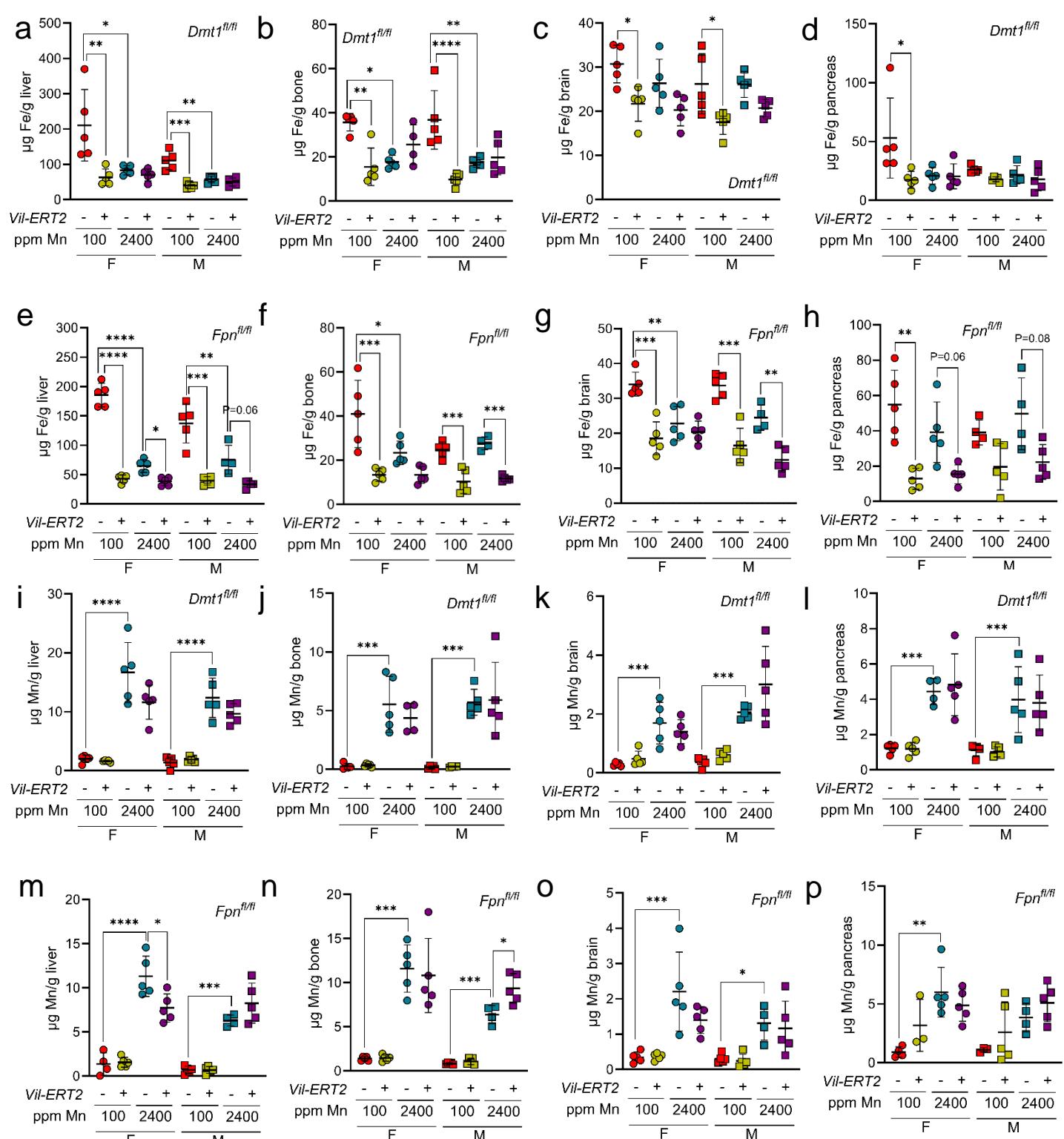


Figure S29

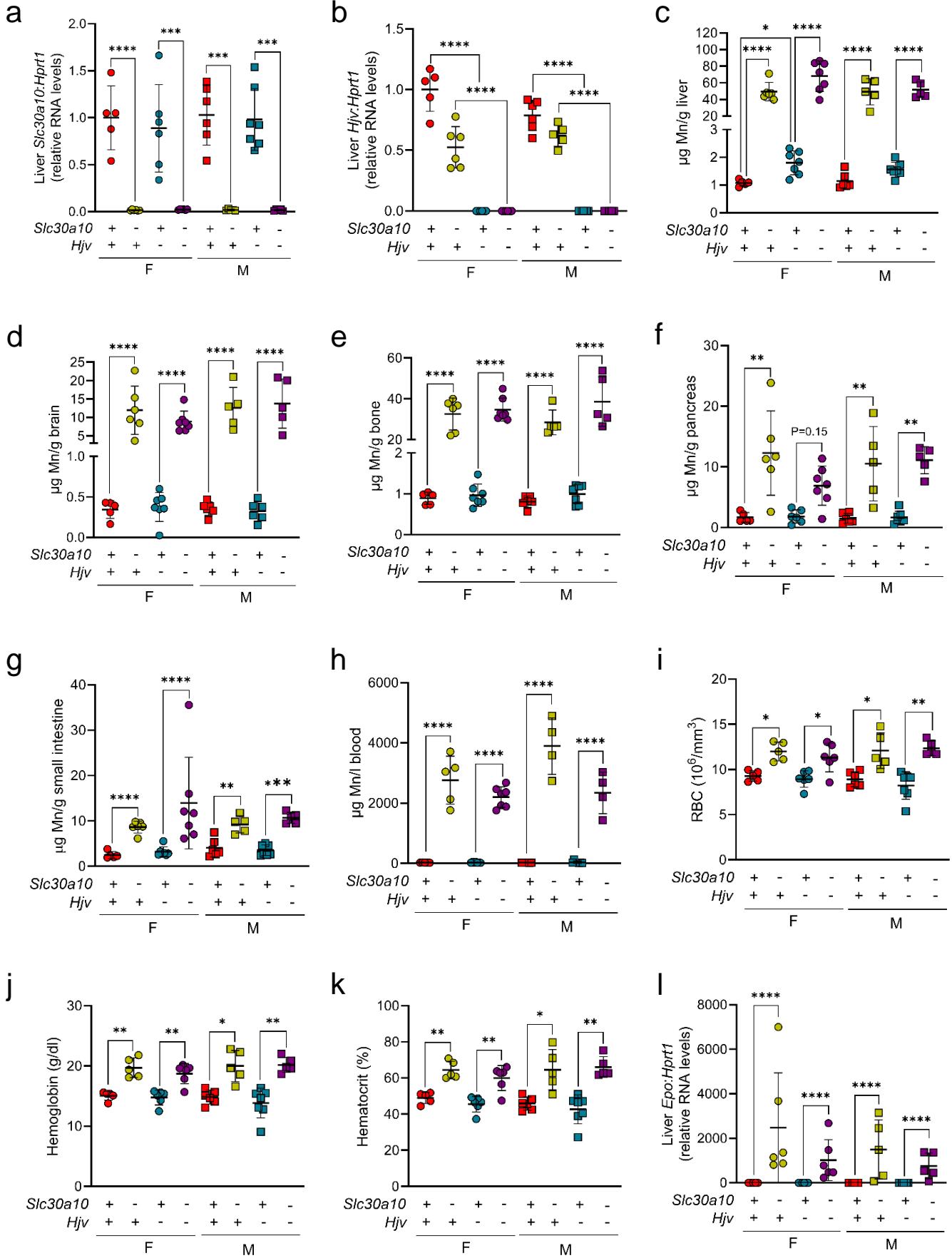


Figure S30

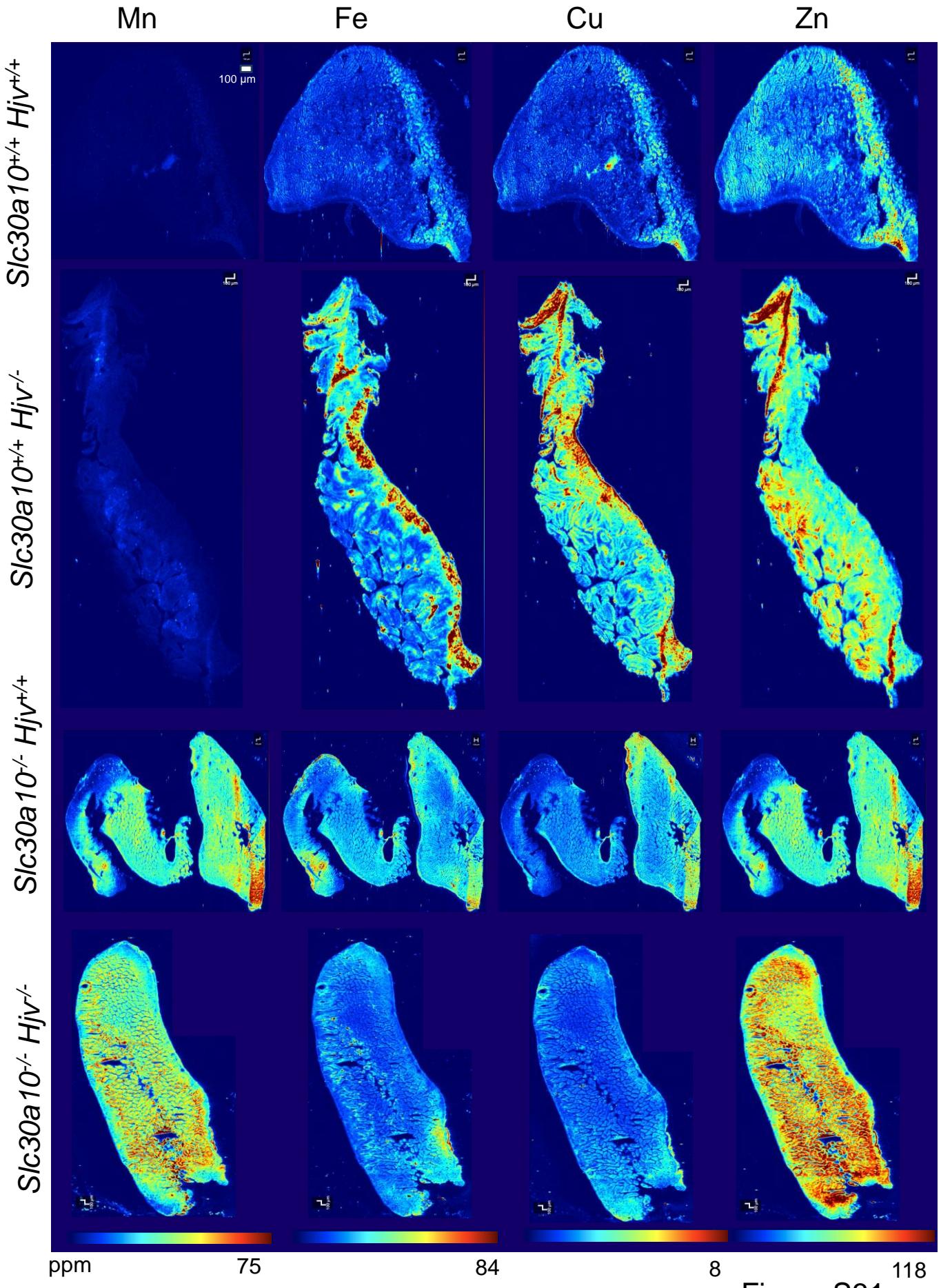


Figure S31

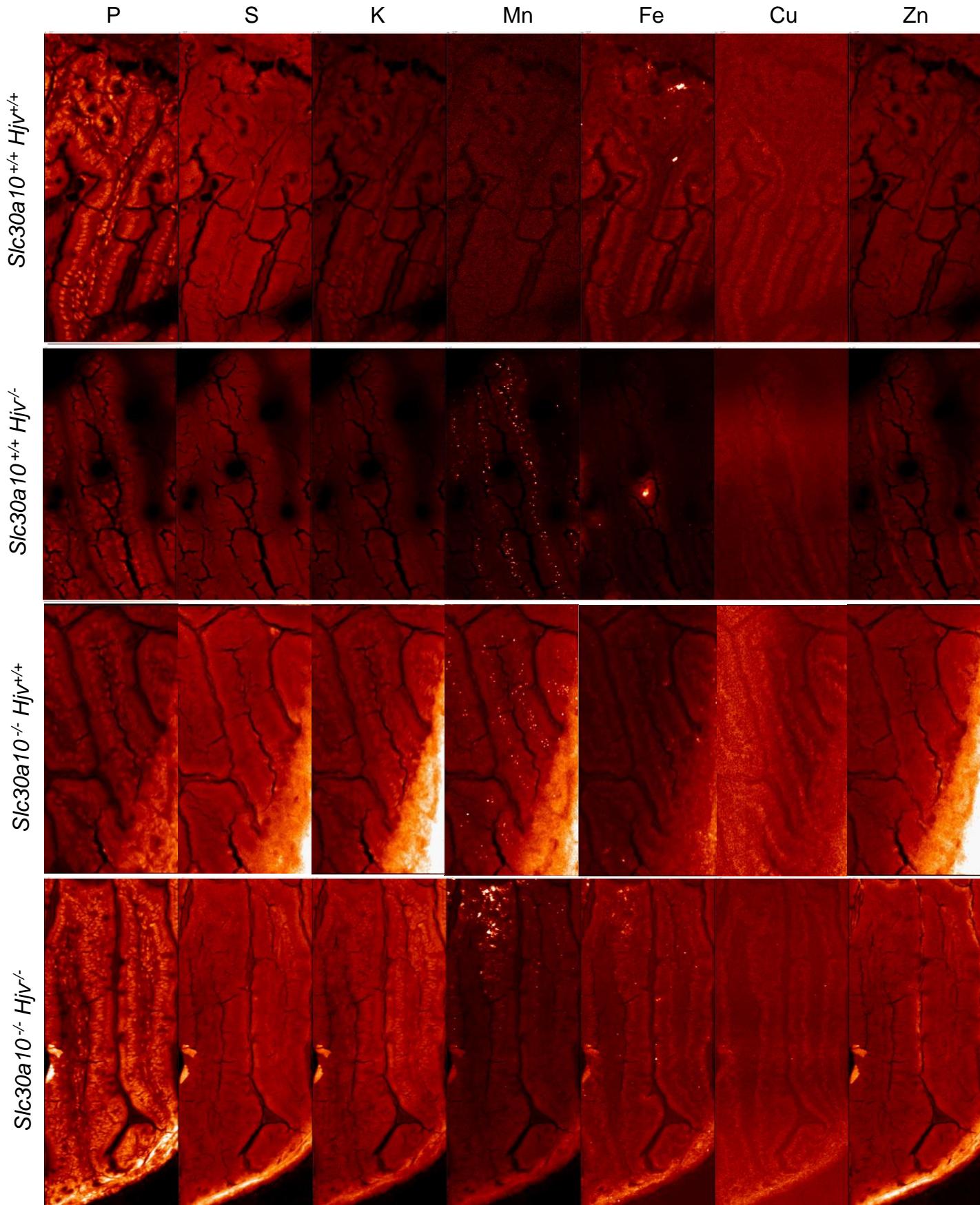


Figure S32

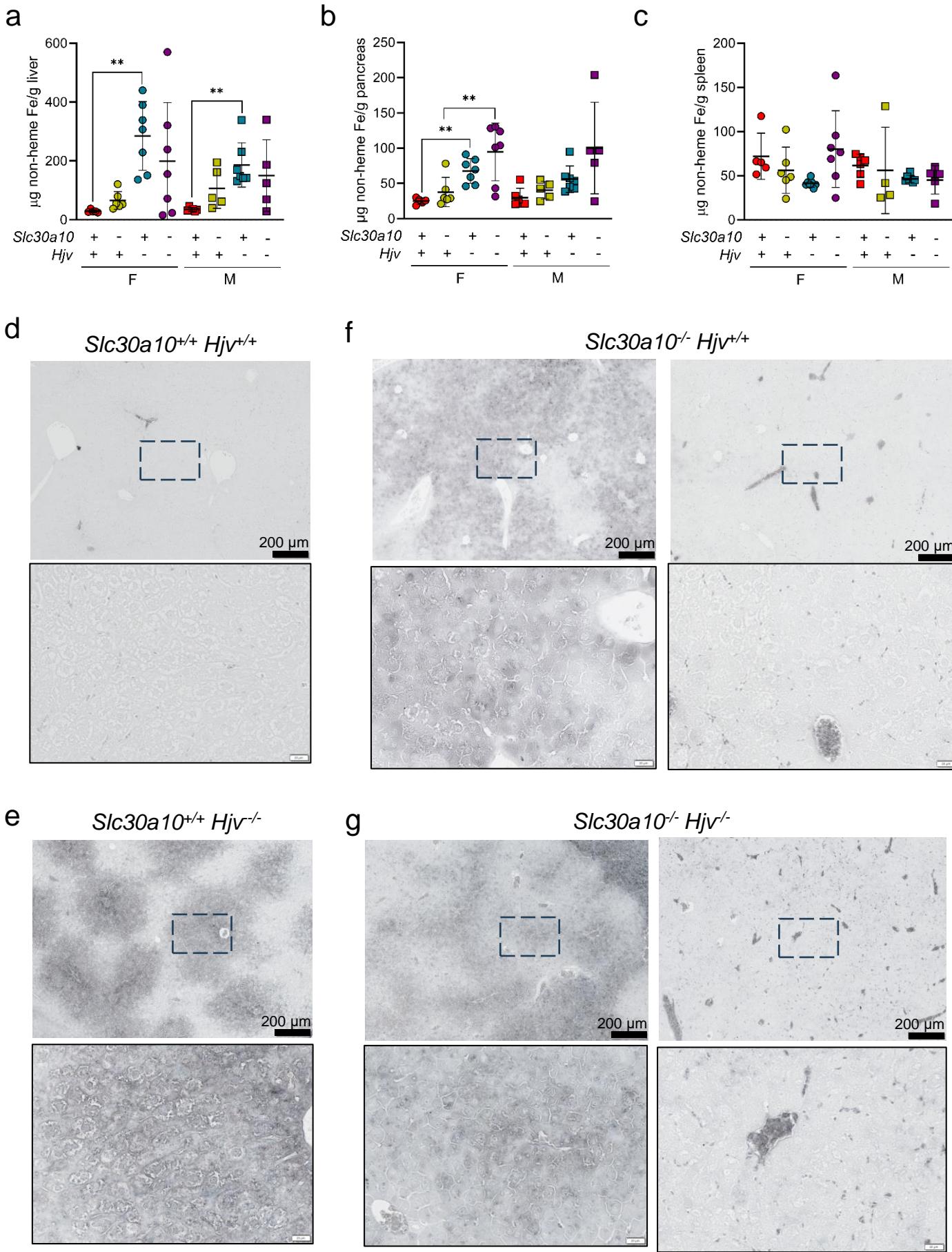
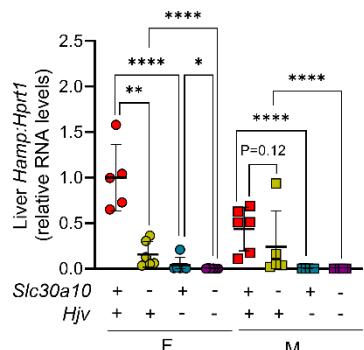
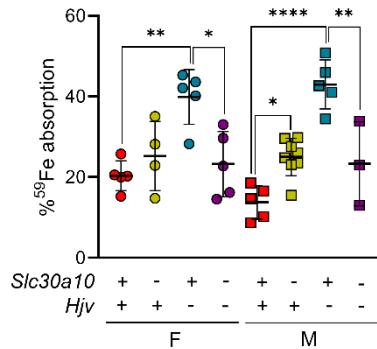
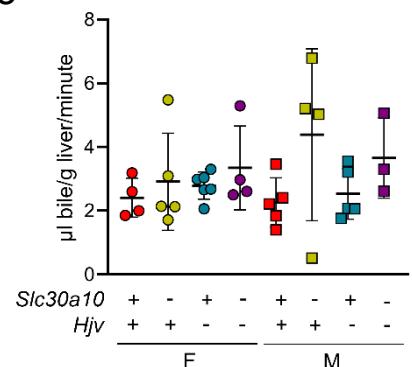
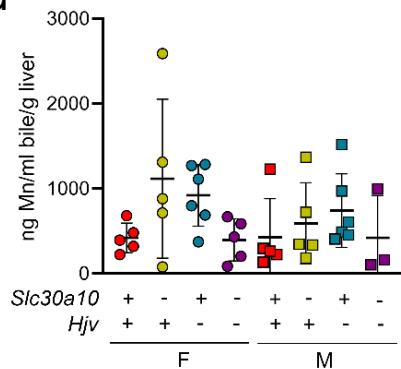
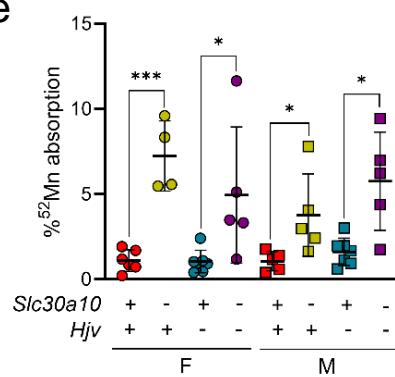
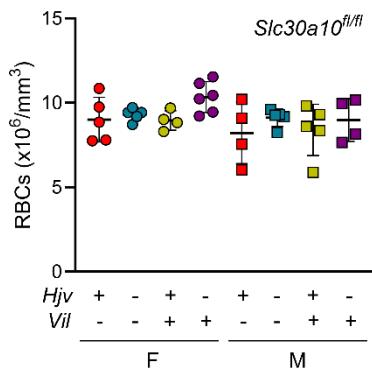
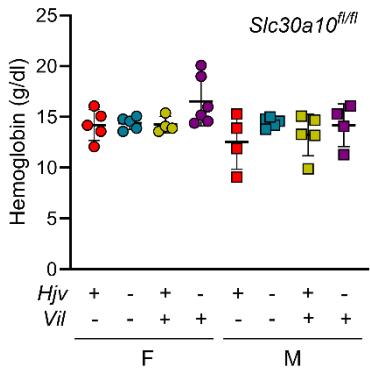
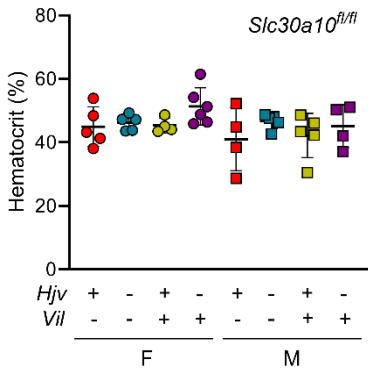
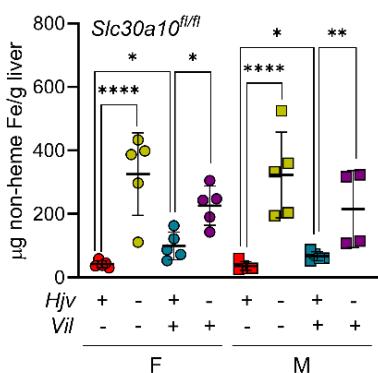
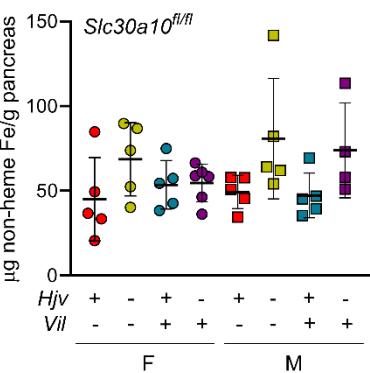
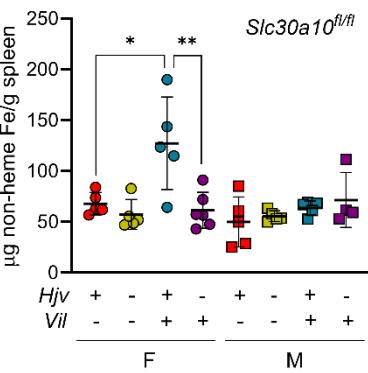
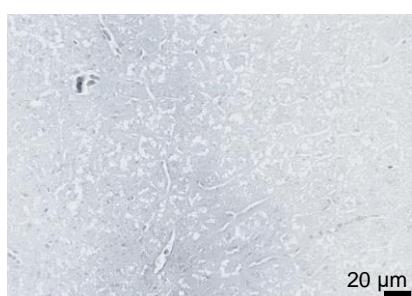
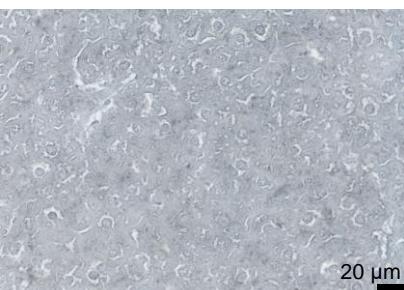
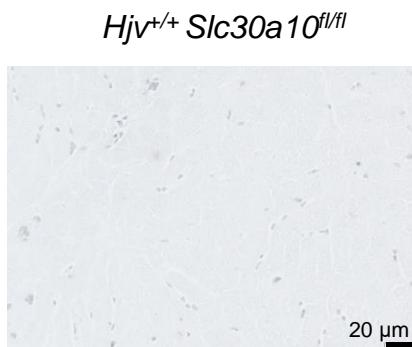


Figure S33

a**b****c****d****e****Figure S34**

a**b****c****d****e****f****g****Figure S35**