

Anastasiou et al, ESM Fig 1

ESM Fig. 1. Generation of the *Aldh1b1*^{tm1lacz} knock in mouse strain

- (A, B) Schematic representation of the targeting of Aldh1b1 genetic locus with a lacZ-PKG-Neo transgene to generate the Aldh1b1^{tm1(KOMP)Vlcg} ES cells and mouse line. The PKG-Neo cassette was removed after intercrossing with the Tg^{Hs-Cre1} transgenic line, thus establishing the Aldh1b1^{tm1lacz} mouse line.
- (C, D) X-gal staining for β -galactosidase on $Aldh1b1^{tm1lacz}$ heterozygote E10.5 embryos confirms that Aldh1b1 is expressed in the developing dorsal (dp) and ventral (vp) pancreatic buds. There is also expression in the heart (ht), cranial nerves (cn), dorsal root ganglia (drg) and the gut (gt).
- (E-H) Double immunofluorescence for B-GAL and ALDH1B1 (E, G) or E-Cadherin and Aldh1b1 (F, H) in pancreata from E14.5 *Aldh1b1*^{tm1/acz} heterozygote (E, F) or null (G, H) embryos confirms the absence of ALDH1B1 in the developing null pancreata. Scale bars, (C) 500μm, (D) 250μm, (E-H) 25μm.