



**Supplementary information, Figure S6** Fate map of  $Apln^{CreERT2/+}$  by  $Rosa26^{LacZ/+}$  reporter. **(A)** E13.5 and E15.5 consecutive heart sections stained with PECAM and x-gal. Red dotted lines indicate the border between trabecular and compact myocardium; black dotted lines indicate epicardium.  $Apln$ -derived cells (X-gal<sup>+</sup>) are detected within compact myocardium, but not in endocardial cells. **(B)** E13.5 heart section stained with endothelial marker PECAM (green) and fate map genetic marker beta-GAL (red). White bar = 100  $\mu$ m. LV, left ventricle; LA, left atrium.