

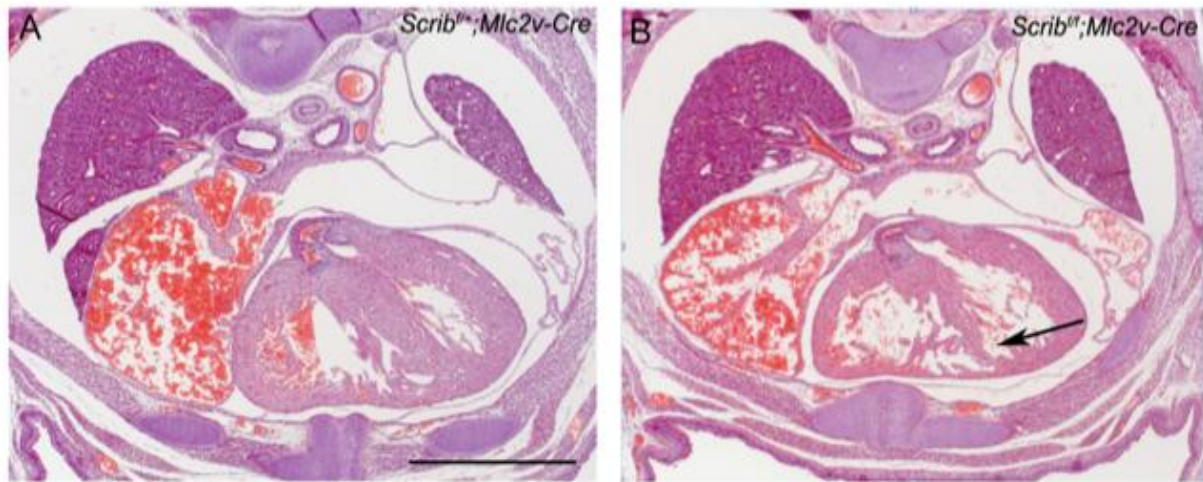
Online Supplement

Supplementary Tables

Supplementary Table 1: Heart and body weight measurements for six month *Scrib^{ff};Nkx2.5-Cre* and control littermates

	n	Body Weight (g)	Heart weight (g)	Heart weight/Body weight
Control	5	29.23 ± 1.88	223.92 ± 28	7.66 ± 1.399
<u>Scrib^{ff}</u>; Nkx2.5-Cre	4	34.09 ± 7.3	302.2 ± 63	8.63 ± 3.13

Supplementary Figures

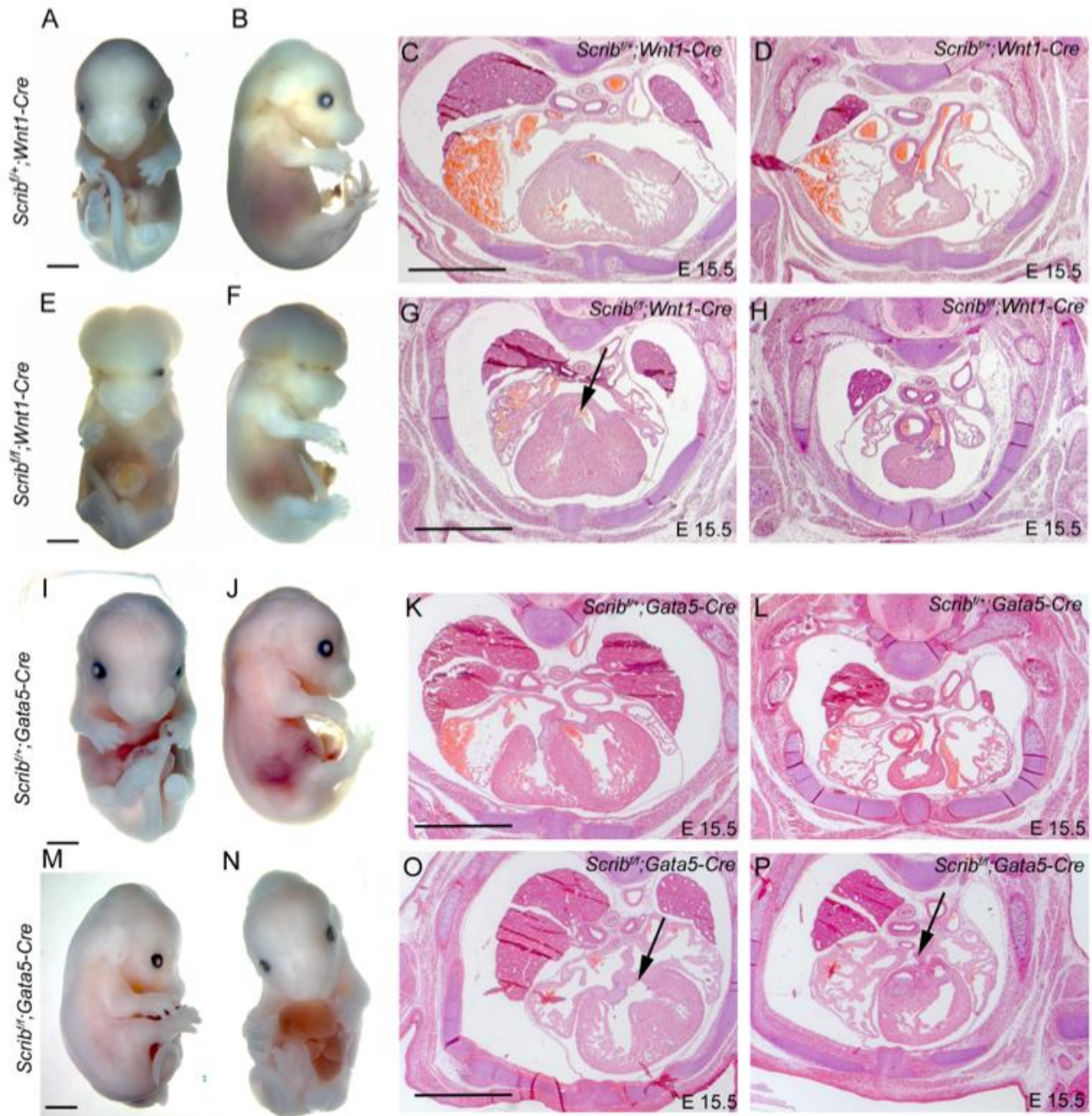


Supplementary Figure 1

Depletion of Scrib in late cardiomyocytes leads to thin ventricular wall.

(A) H&E staining of control and **(B)** *Scrib^{ff};Mlc2v-Cre* mouse embryo sections at E15.5.

Note abnormalities in the ventricular septum (arrow) in Scrib depleted myocardium. Scale bar = 100 μ m.



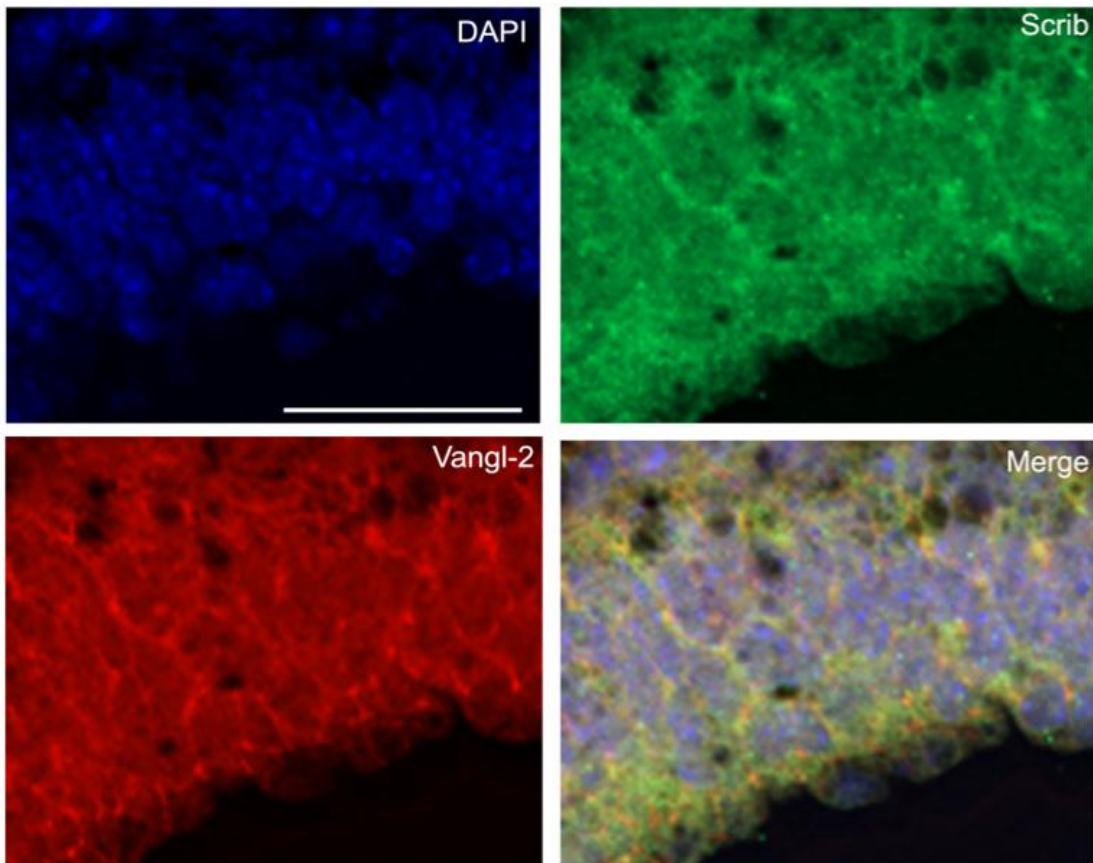
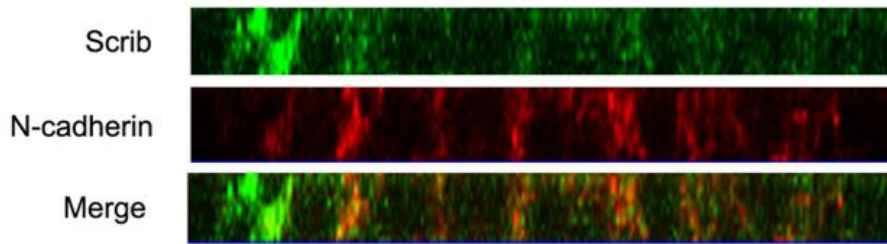
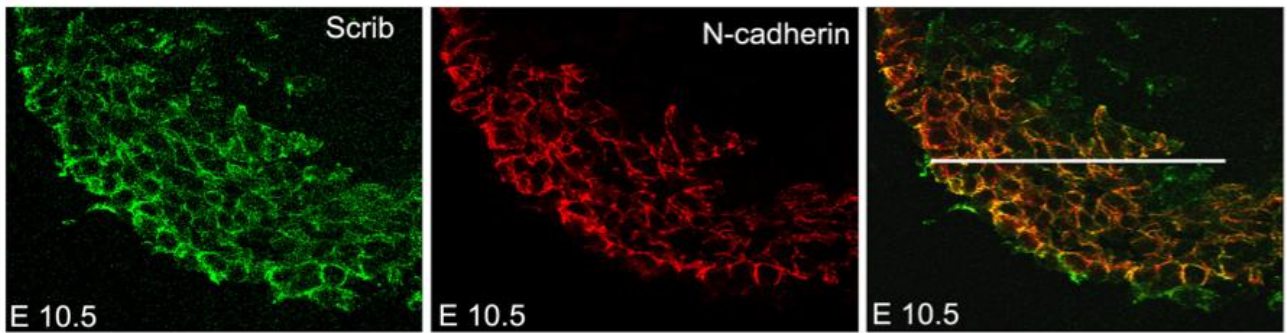
Supplementary Figure 2

Cardiac malformations in *Scrib^{ff};**Wnt1-Cre* and *Scrib^{ff};**Gata5-Cre* mutants with external phenotypes.

(A,B, E,F) Representative images of control and *Scrib^{ff};**Wnt1-Cre* mouse with exencephaly at the age of E15.5. (C,D,G,H) Transverse sections of control and *Scrib^{ff};**Wnt1-Cre* embryos revealed ventricular septal defect (arrow) in the mutant embryo. (I,J,M,N) Images of control and *Scrib^{ff};**Gata5-Cre* embryos at E15.5. The *Scrib^{ff};**Gata5-Cre* mutant exhibit spinal bifida and gastroschisis.

(K,L,O,P) Analysis of the *Scrib^{ff};**Gata5-Cre* mutant heart sections revealed double outlet right ventricle and ventricular septal defect (arrows).

A,B,E,F,I,J,M,N: scale bar = 2mm. C,D,G,H,K,L,O,P: scale bar = 50µm.



Supplementary Figure 3

Colocalisation of Scrib with N-cadherin in cardiomyocytes and Vangl2 in embryonic pharyngeal endoderm.

(A) Scrib co-localises with the adherens junction protein N-cadherin in E10.5 cardiomyocytes, as it did with β -catenin. **(B)** Scrib co-localises with the PCP protein Vangl2 at the cell membrane of epithelial cells in the pharyngeal endoderm at E10.5.