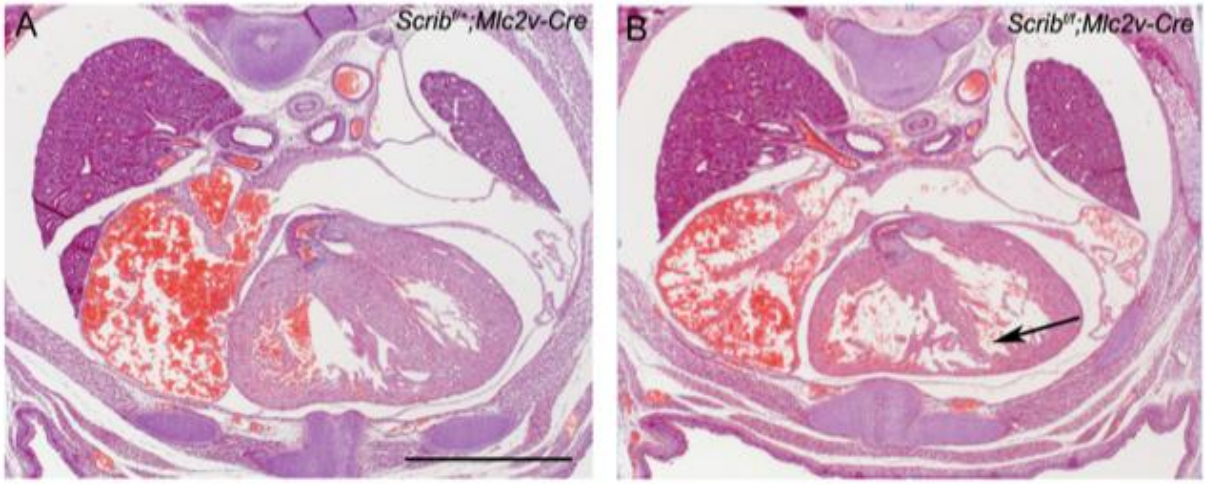
# Online Supplement

## Supplementary Tables

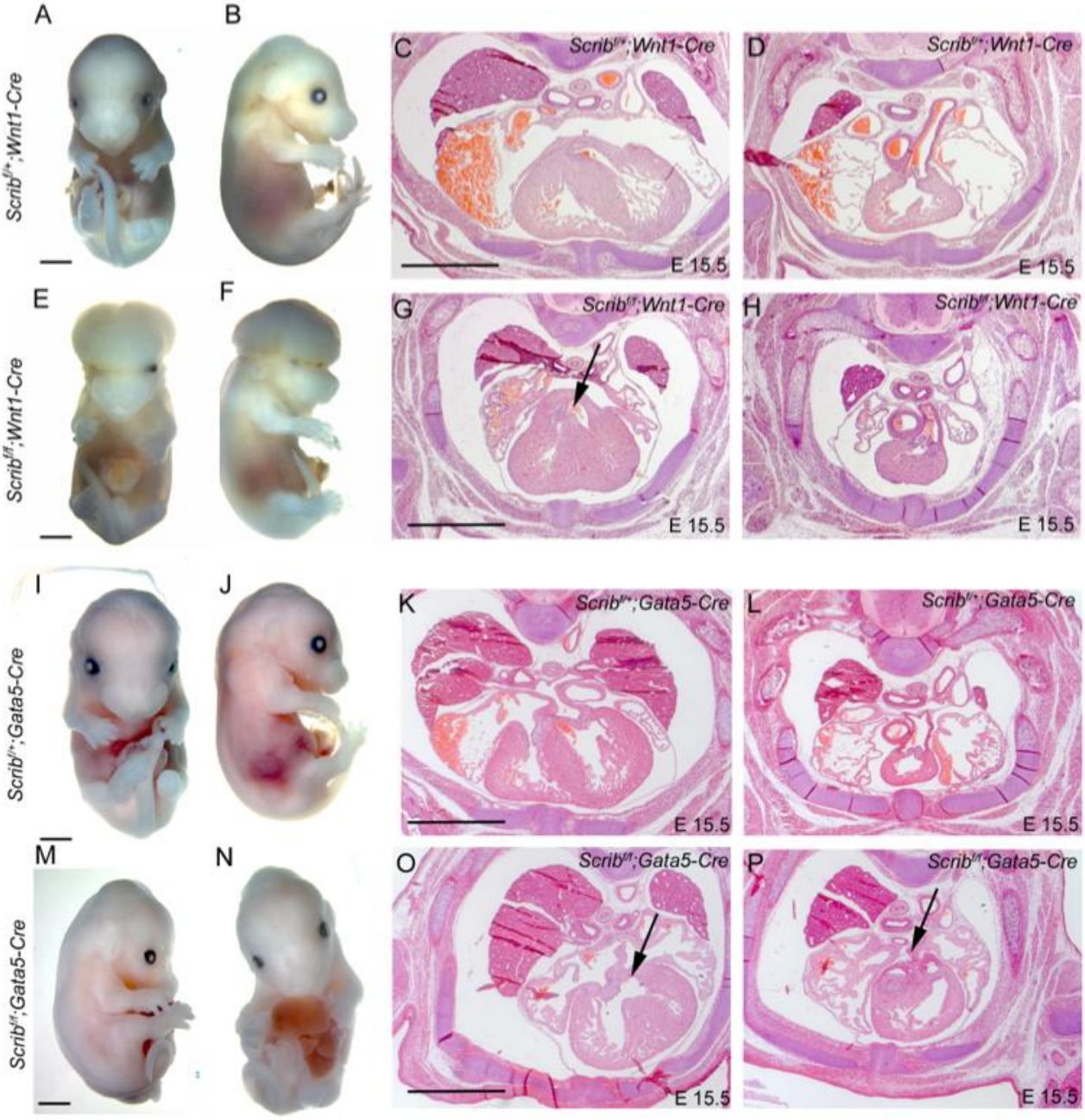
### Supplementary Table 1: Heart and body weight measurements for six month *Scrib$^{f/f}$;Nkx2.5-Cre* and control littermates

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

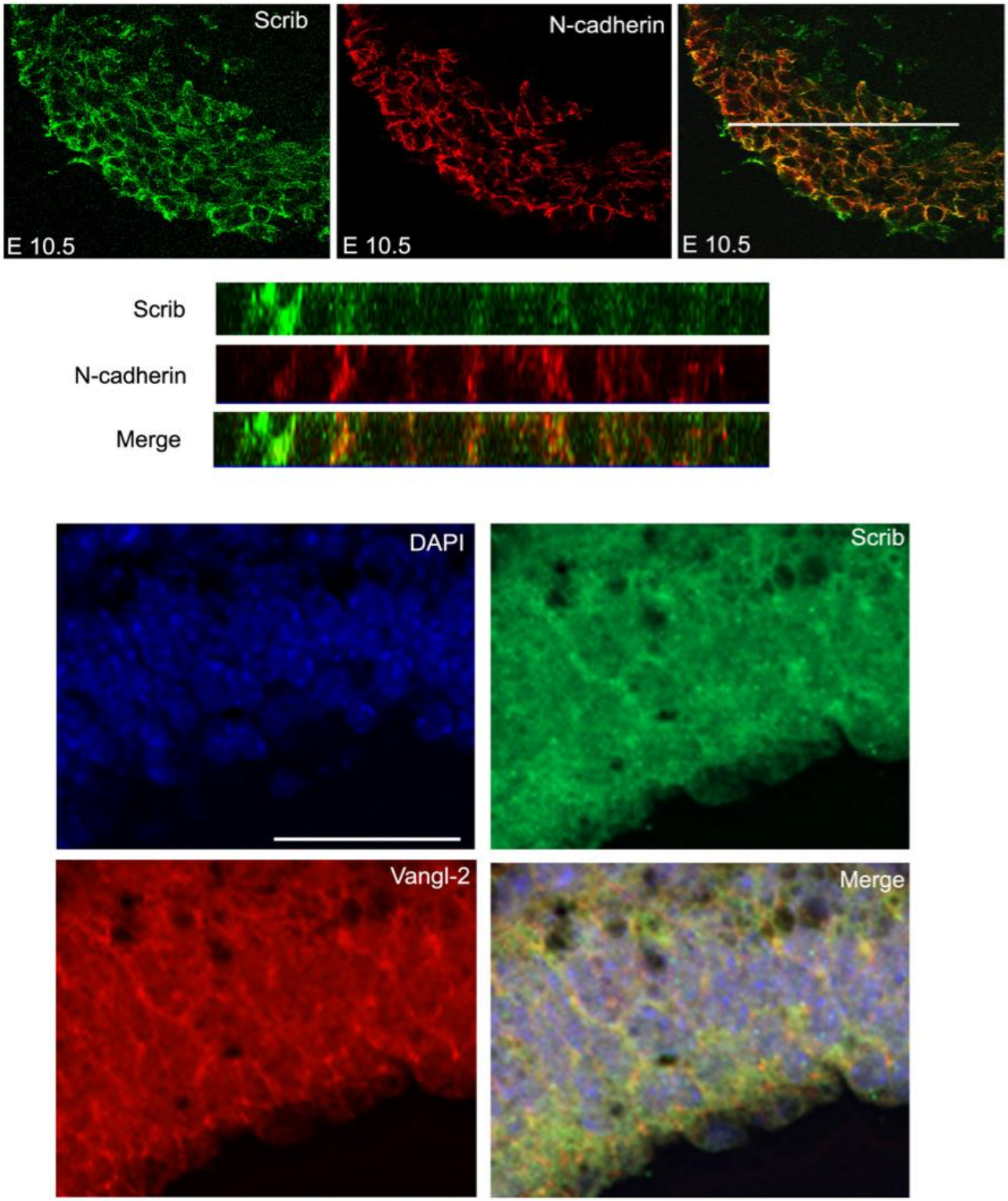
**Supplementary Figures**




**Supplementary Figure 1**
**Depletion of Scrib in late cardiomyocytes leads to thin ventricular wall.**
**(A)** H&E staining of control and **(B)** *Scrib$^{f/f}$;Mlc2v-Cre* mouse embryo sections at E15.5. Note abnormalities in the ventricular septum (arrow) in Scrib depleted myocardium. Scale bar = 100µm.




**Supplementary Figure 2**
**Cardiac malformations in *Scrib$^{f/f}$;Wnt1-Cre* and *Scrib$^{f/f}$;Gata5-Cre* mutants with external phenotypes.**
**(A,B, E,F**) Representative images of control and *Scrib$^{f/f}$;Wnt1-Cre* mouse with exenchephaly at the age of E15.5. **(C,D,G,H)** Transverse sections of control and *Scrib$^{f/f}$;Wnt1-Cre* embryos revealed ventricular septal defect (arrow) in the mutant embryo. **(I,J,M,N)** Images of control and *Scrib$^{f/f}$;Gata5-Cre* embryos at E15.5. The *Scrib$^{f/f}$;Gata5-Cre* mutant exhibit spinal bifida and gastroschisis. **(K,L,O,P)** Analysis of the *Scrib$^{f/f}$;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.