Table S2. Overview of cardiovascular defects observed in serially sectioned E14.5 embryos

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Genotype	Great artery connections	VSD	RERSA	Aortic arch defects
$\alpha$ 5 <sup>flox/+</sup> ; $\alpha$ v <sup>flox/+</sup> ; <i>Tie2-Cre</i>				7.0 0 0 0
1198-10	Normal	Closed	Absent	None
α5/αv-cdHemi	1/1 normal	None	None	None
$\alpha$ 5 <sup>flox/-</sup> ; $\alpha$ v <sup>flox/-</sup> ; <i>Tie2-Cre</i>				
1198-3	Defective	VSD	RERSA	Tiny AAo
1198-4	Defective	VSD	Absent	IAA-C
1198-9	Defective	VSD	RERSA	Very thin AA at AA-C
1199-2	Fragile	VSD	Absent	Thin AA
1261-1	Defective	VSD	RERSA	AAo missing
1261-4	Defective	VSD	RERSA	IAA-C (or B)
α5/αν-cdKO	5/6 defective	6/6	4/6	Frequent defects
	1/6 fragile			
$\alpha$ 5 flox/-; $\alpha$ v <sup>flox/+</sup> ; <i>Tie2-Cre</i>				
1198-1	Normal	VSD	Absent	Thin at AA-C region
1198-6	Normal	Small VSD	Absent	Thin AA
1198-8	Defective	VSD	RERSA	Vascular ring (double DA)
1198-11	Normal	VSD	Absent	Long thin AA
1199-1	Normal	VSD	Absent	AA dilated shape
1261-7	Fragile	VSD	Absent	Stenosis of DAo
1261-3	Fragile	VSD	Absent	Thin AA
α5-cKO; αν-cHemi	1/7 defective	7/7	1/7	Occasional defects
	2/7 fragile			
	4/7 normal			
$\alpha$ 5 <sup>flox/+</sup> ; $\alpha$ v <sup>flox/-</sup> ; <i>Tie2-Cre</i>				
1198-2	Normal	Closed	Absent	Absent
1261-5	Normal	Closed	Absent	Absent
α5-cHemi; αν-cKO	2/2 normal	0/2	0/2	None

Embryos are organized by genotype and litter embryo number. Great-artery connections: normal, appears as control; fragile, some parts of vessels look distorted or thin but all the connections are normal; defective, defects in vessel organization. VSD column: VSD, ventricular septation defect; closed, ventricular septation; RERSA, retro-oesophageal right subclavian artery. Aoric arch (AA) column, description of defects: AAo, ascending aorta; (I)AA-B/C, interrupted aortic arch type (see Fig. 3A).