

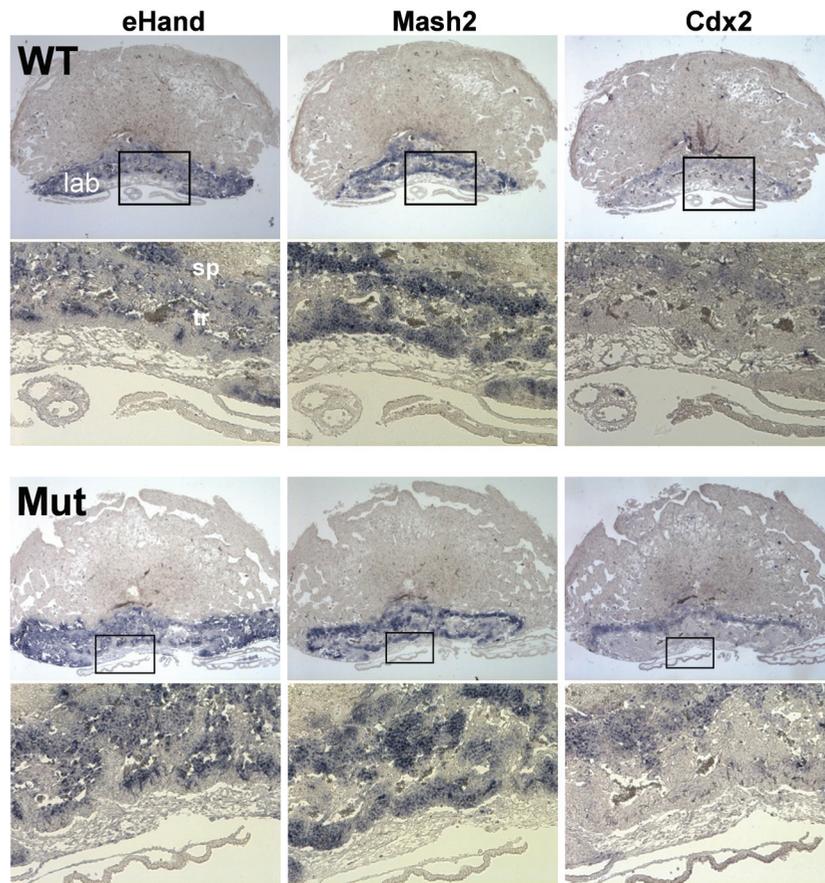
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SUPPLEMENTARY MATERIAL

corresponding to:

**A novel mutant allele of Ncx1:
a single amino acid substitution leads to cardiac dysfunction**

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Supplementary Fig. 1. Expression of placental lineage markers. In situ hybridisation on wildtype (**WT**) or mutant (**Mut**) placenta of E9.5 embryos. Probes are indicated on top of the figure and apply to the entire columns. Rectangles indicate the region that is enlarged in the panel below. *sp*, spongiotrophoblasts; *tr*, labyrinthine trophoblasts.

Supplementary Movies: Available at: <http://dx.doi.org/10.1387/ijdb.093051cw>

Supplementary Movie 1. Movie of contracting wildtype cells. Contracting behaviour of dissociated and replated cardiomyocytes from wild type embryos. Note organised 'beating' of cells.

Supplementary Movie 2. Movie of contracting mutant cardiomyocytes. As in Supplementary Movie 1, for mutant cells. Note chaotic behaviour of cells.