

Table S1. Cardiomyocyte number at various stages

Stage	Cardiomyocytes*	n
24 hpf	150.6±11.5	5
36 hpf	213.2±11.7	5
48 hpf	310.6±9.7	5

*As determined by α -DsRed antibody staining in *Tg(cmlc2:DsRed)* embryos. Values are mean±s.e.m.

Table S2. Heartbeats per minute

Stage	24 hpf	48 hpf	72 hpf	n
<i>isl1</i> ^{K88X} siblings	80±1.3	135.5±1.8	163±4.4	5
<i>isl1</i> ^{K88X} mutants	80±1.3	94.6±3.2*	57.5±2.9*	10

*P<0.01.

Values are mean±s.e.m.

Table S3. Cell count of GFP^{pos}/DsRed^{pos} and GFP^{pos}/DsRed^{neg} myocardial cells

Treatment	GFP ^{pos} /DsRed ^{pos}	GFP ^{pos} /DsRed ^{neg}		Total	n
		Arterial pole	Venous pole		
<i>isl1</i> ^{K88X} siblings	199.7±6.2	28.4±1.5	24.9±3.1	253±9.2	7
<i>isl1</i> ^{K88X} mutants	203.3±7.1	32±2.1	10.1±2.6**	245.4±7.2	7
Uninjected control [†]	249.8±12.6	23.5±3.3	26.5±1.8	299.8±9.1	4
<i>isl1</i> MO	214±13.4*	20.2±2.2	8.2±2.2**	242.4 ±14.0**	5
Control MO [‡]	170±4.6	16.3±2.0	22±2.0	208.3±6.6	4
<i>sih</i> MO	173±7.0	17.7±5.8	26.3±2.8	217±15.6	3
Uninjected control [¶]	243.7±26.5	28.7±1.3	32.3±4.1	304.7±22.6	3
<i>fgf8</i> MO	153±5.5*	16.8±3.8*	25.8±2.3	195.5±5.9*	4
DMSO [§]	247±9.1	29.7±4.3	29.7±0.7	306.3±5.0	3
SU5402	246.4±10.8	6.2±2.0**	31±2.6	283.6±13.4	5

*Significant difference with control P<0.05.

**Significant difference with control P<0.01.

[†]Control for *isl1* MO experiment.

[‡]Control for *sih* MO experiment.

[¶]Control for *fgf8* MO experiment.

[§]Control for SU5402 experiment.