

Supplementary Figures

Figure S1: Basal sarcomere shortening in CM from male WT and male and female $sGC\alpha1^{-/-}$ mice. Data is expressed as % of sarcomere shortening. Cells were paced at 1, 2, 4, and 6 Hz. A repeated measures 2-way ANOVA was performed with Bonferroni post-hoc tests. * $p < 0.01$ vs. WT ** $p < 0.001$ vs. WT.

Figure S2: The sGC activator Bay 41-2272 decreases β -adrenergic stimulated contractility in WT CM. The graph indicates % decrease in sarcomere shortening at 150 seconds after the start of perfusion with indicated concentrations of Bay 41-2272 in WT and $sGC\alpha1^{-/-}$. CM were pre-incubated and continuously perfused with 10 nM ISO.

Figure S3: Effect of the muscarinic agonist carbachol (CCh) on contractile function after β -adrenergic receptor stimulation in WT and $sGC\alpha1^{-/-}$ CM. Data is expressed as the percentage decrease in sarcomere shortening in WT and $sGC\alpha1^{-/-}$ CM paced at 2Hz and incubated with ISO (10 nM) followed by perfusion with CCh (10 μ M).