

Legends for supplemental videos

Video S1

Characterization of the cardiac phenotype of $^{SM22\alpha}CaSR^{\Delta flox/\Delta flox}$ mice. Cardiac cine MRI sequence of one heartbeat from three representative WT and three remodeled (5 out of 11 investigated hearts) KO hearts shown in long axis.

Video S2

Characterization of the cardiac phenotype of $^{SM22\alpha}CaSR^{\Delta flox/\Delta flox}$ mice. Representative video of one heartbeat of a WT mouse heart shown as 3D-reconstruction of the left ventricular endocardium (red) intersected with short and long axis image planes (black and white) from cardiac cine MRI.

Video S3

Characterization of the cardiac phenotype of $^{SM22\alpha}CaSR^{\Delta flox/\Delta flox}$ mice. The left ventricle of remodeled hearts from KO mice exhibits full apical closure. Representative video of one heartbeat of a remodeled (5 out of 11 investigated hearts) KO mouse heart shown as 3D-reconstruction of the left ventricular endocardium (red) intersected with short and long axis image planes (black and white) from cardiac cine MRI.