Supplementary Table 2. Echocardiographic Doppler measurements of blood flow across the mitral valve of 10 week old male SMGRKO mice and littermate controls. Values are means \pm SEM with number indicated in brackets. *p<0.05, **p<0.01 (Unpaired t-test).

Doppler measurement (Unit)	Sex	Control	SMGRKO	
Peak E Wave Velocity (mm/s)	Male Female	860±37 (11) 955±23 (11)	918±32 (16) 891±38 (11)	
Peak A Wave Velocity(mm/s)	Male Female	580±24 (11) 485±27 (12)	638±24 (15) 416±28 (11)	
E/A Wave Ratio	Male Female	1.50±0.07 (11) 1.92±0.09 (11)	1.42±0.06 (14) 2.10±0.11 (10)	
E wave Deceleration (mm/s ²)	Male Female	32567±1925 (10) 39712±1749 (12)	36654±1618 (16) 44320±3865 (11)	
MDI = <u>E wave Decel. Time</u> (ms/[mm/s]) Peak E wave velocity	Male Female	0.031±0.002 (10) 0.025±0.001 (12)	0.029±0.001 (15) 0.022±0.002 (10)	
Pressure Half Time	Male Female	7.08±0.34 (10) 6.26±0.27 (11)	6.48±0.22 (14) 5.56±0.33 (11)	
Myocardial Performance Index (Arbitrary units)	Male Female	0.64+0.03 (11) 0.56±0.03 (12)	0.73±0.02 (16) 0.65±0.03 (11)	*
Isovolumetric Contraction Time (ms)	Male Female	12.9±0.8 (11) 11.8±0.5 (11)	15.5±0.6 (15) 14.8±0.8 (11)	*
Ejection Time (ms)	Male Female	42.7±1.1 (11) 45.5±0.8 (11)	40.44±0.82 (15) 47.0±0.90 (10)	
Isovolumetric Relaxation Time (ms)	Male Female	14.4±1.1 (11) 13.5±0.5 (12)	13.7±0.4 (16) 15.2±0.7 (10)	
Heart Rate (BPM)	Male Female	482±17 (11) 454±9 (12)	464±14 (15) 420±8 (10)	*