

**Supplementary information, Table S1 Echocardiographic characterization of miR-27b transgenic mice**

	3 Mon		6 Mon	
	wild type mice N=5	miR-27b Tg mice N=8	wild type mice N=9	miR-27b Tg mice N=8
LV internal diameter in diastole, mm	3.33 ± 0.14	3.63 ± 0.08	3.57 ± 0.10	3.95 ± 0.11*
Posterior wall thickness in diastole, mm	0.84 ± 0.05	0.78 ± 0.03	0.99 ± 0.05	0.84 ± 0.02 *
LV internal diameter in systole, mm	2.08 ± 0.10	2.51 ± 0.11*	2.25 ± 0.10	2.79 ± 0.13 *
Posterior wall thickness in systole, mm	1.22 ± 0.06	1.07 ± 0.03 *	1.38 ± 0.07	1.15 ± 0.04 *
Anterior wall thickness in diastole, mm	0.84 ± 0.02	0.82 ± 0.03	0.93 ± 0.03	0.87 ± 0.02
Anterior wall thickness in systole, mm	1.16 ± 0.06	1.14 ± 0.06	1.29 ± 0.05	1.18 ± 0.04
LV volume in diastole, mm	45.86 ± 4.75	55.94 ± 2.94	54.09 ± 3.57	68.75 ± 4.19 *
LV volume in systole, mm	15.69 ± 1.45	23.10 ± 2.76	17.74 ± 1.96	30.28 ± 3.43 *
Ejection fraction , %	68.57 ± 1.63	59.33 ± 3.17	67.35 ± 2.80	56.42 ± 3.75 *
Fraction shortening, %	37.53 ± 1.28	31.16 ± 2.07 *	37.06 ± 2.18	29.45 ± 2.33 *
LV mass to body weight	4.43 ± 0.26	5.44 ± 0.32 *	4.36 ± 0.14	4.90 ± 0.16 *

The results presented are means ± SEM. \**P* < 0.05 versus control mice.