

Table 1: 15 genes targeted by at least one of selected 27 miRNAs

Gene	RefSeq mRNA	miRNA that target miRNA
<i>Synrg</i>	NM_194341	miR-451, miR-22-3p, miR-709, miR-143-3p, miR-126-5p, miR-16, miR-1983, miR-207
<i>Uba52</i>	NM_019883	miR-133a-3p, miR-133b-3p
<i>Crip2</i>	NM_024223	miR-709
<i>Uqcrq</i>	NM_025352	miR-709
<i>1700047I17Rik2</i>	NM_001100116	miR-30c-5p, miR-29a-3p, miR-133a-3p, miR-30b-5p, miR-29b-3p, miR-16, miR-30e-5p, miR-1983
<i>Rplp0</i>	NM_007475	miR-30c-5p, miR-30b-5p, miR-30e-5p
<i>Hbb-bt</i>	NM_008220	miR-143-3p
<i>Ndufa13</i>	NM_023312	miR-24-3p
<i>Pebp1</i>	NM_018858	miR-24-3p
<i>Exosc2</i>	NM_144886	miR-378a-5p
<i>Pbld1</i>	NM_026701	miR-125b-5p
<i>2610028H24Rik</i>	NM_029816	miR-125b-5p
<i>Medag</i>	NM_027519	let-7b-5p, let-7g-5p
<i>Tpt1</i>	NM_194341	miR-16
<i>Uqcrh</i>	NM_025641	miR-691

Table 2: 17 genes associated with heart diseases but not targeted by any of selected 27 miRNAs

RefSeq mRNA	Gene	Heart disease association (P -values)
NM_007450	<i>Slc25a4</i>	Cardiomyopathies (3.3×10^{-5}) ; Cardiomegaly (1.6×10^{-2})
NM_001164248	<i>Tpm1</i>	Cardiomyopathy, Hypertrophic, Familial (6.0×10^{-18}), Cardiomyopathy, Dilated (9.6×10^{-5}), Cardiomyopathy, Hypertrophic (5.2×10^{-3}), Heart Diseases (9.1×10^{-3})
NM_001164171	<i>Myh6</i>	Cardiomyopathy, Hypertrophic (4.9×10^{-42}), Heart Defects, Congenital (2.5×10^{-28}), Cardiomyopathy, Dilated (3.0×10^{-12}), Cardiomegaly (3.1×10^{-12})
NM_008218	<i>Hba-a1</i>	Cardiomegaly (1.7×10^{-2})
NM_013593	<i>Mb</i>	Myocardial Infarction (9.0×10^{-52}), Myocardial Ischemia (4.8×10^{-18}), Myocardial Reperfusion Injury (8.8×10^{-11}), Angina Pectoris (8.5×10^{-17})
NM_011619	<i>Tnnt2</i>	Cardiomyopathy, Hypertrophic (5.9×10^{-17}), Cardiomyopathy, Dilated (1.1×10^{-11}), Cardiomyopathy, Hypertrophic, Familial (4.0×10^{-10}), Ventricular Dysfunction, Left (3.7×10^{-7})
NM_008084	<i>Gapdh</i>	Cardiomyopathy, Dilated (1.6×10^{-3}), Heart Diseases (9.6×10^{-3}), Myocardial Infarction (3.4×10^{-2}), Heart Defects, Congenital (3.4×10^{-2})
NM_009944	<i>Cox7a1</i>	Chagas Cardiomyopathy (1.2×10^{-4}), Myocarditis (1×10^{-3})
NM_175329	<i>Chchd10</i>	Cardiovascular Diseases (3.1×10^{-3})
NM_016774	<i>Atp5b</i>	Cardiomyopathies (3.8×10^{-3})
NM_008653	<i>Mybpc3</i>	Cardiomyopathy, Hypertrophic (1.7×10^{-11}), Ventricular Dysfunction, Left (1.4×10^{-7}), Cardiomyopathy, Dilated (3.5×10^{-7}), Cardiomyopathy, Hypertrophic, Familial (5.3×10^{-7})
NM_009964	<i>Cryab</i>	Cardiomyopathies (4.0×10^{-13}), Myocardial Ischemia (7.1×10^{-8}), Myocardial Reperfusion Injury (6.4×10^{-6}), Heart Failure (3.1×10^{-5})
NM_009406	<i>Tnni3</i>	Cardiomyopathy, Dilated (7.5×10^{-12}), Cardiomyopathy, Hypertrophic, Familial (3.1×10^{-10}), Ventricular Dysfunction, Left (2.9×10^{-7}), Cardiomyopathies (1.1×10^{-6})
NM_198415	<i>Ckmt2</i>	Hypertrophy, Left Ventricular (1.4×10^{-3}), Cardiomyopathy, Dilated (2.0×10^{-3}), Myocardial Reperfusion Injury (2.9×10^{-3}), Myocardial Ischemia (3.2×10^{-3})
NM_007505	<i>Atp5a1</i>	Cardiomyopathies (7.7×10^{-3})
NM_177369	<i>Myh8</i>	Heart Defects, Congenital (2.6×10^{-3})
NM_010212	<i>Fhl2</i>	Heart Defects, Congenital (7.7×10^{-5}), Cardiomyopathies (1.2×10^{-2}), Cardiomegaly (2.2×10^{-2}), Myocardial Infarction (3.1×10^{-2})

Table 3: 18 genes neither associated with heart diseases nor targeted by any of selected 27 miRNAs

RefSeq	gene
NM_001083955	<i>Hba-a2</i>
NM_001033435	<i>Milr1</i>
NM_008617	<i>Mdh2</i>
NM_024166	<i>Chchd2</i>
NM_175015	<i>Atp5g3</i>
NM_026614	<i>Ndufa5</i>
NM_027862	<i>Atp5h</i>
NM_170759	<i>Zfp628</i>
NM_010888	<i>Ndufs6</i>
NM_007751	<i>Cox8b</i>
NM_010239	<i>Fth1</i>
NM_173011	<i>Idh2</i>
NM_023374	<i>Sdhb</i>
NM_053071	<i>Cox6c</i>
NM_025983	<i>Atp5e</i>
NM_080633	<i>Aco2</i>
NM_031165	<i>Hspa8</i>
NM_020582	<i>Atp5j2</i>