Supplementary Table 5: mRNA targets of the top 5 "cardioprotective" miRNAs

miRNA	Prediction software	Targets
mmu-miR-143-3p	miRDB Starbase mirtarbase	1700019A02Rik, 2010315B03Rik, 4930524B15Rik, 4933402N22Rik, 5730559C18Rik, A1cf, Acnat1, Actb, Adamtsl5, Adar, Add3, Agpat1, Ahcyl1, Akap6, Ano5, Appl2, Arhgap26, Arhgap28, Arhgef15, Arhgef40, Asap3, Asb4, Asf1b, Atp10a, Atp12a, Atp1b2, B3galt6, Bace2, Bcdin3d, Bend4, Bmp5, Brd2, Bsn, Cadm2, Calml3, Casp2, Cbfb, Ccdc38, Ccdc58, Ccng2, Ccnk, Ccr3, Cd151, Cd226, Cd300a, Cd53, Cd82, Clec7a, Cntd1, Col11a1, Col25a1, Col5a2, Cops7a, Coro2b, Cpd, Creb3l2, Crebzf, Creld1, Crem, Cryz, Csnk1g3, Ctnnd1, Cwc25, Cyp1a2, Ddah1, Ddx6, Dennd1b, Dennd4c, Deptor, Dgkg, Dip2b, Dnmt3a, Doc2b, Dsel, Dtx4, Dynll2, Dyrk1b, Efs, Egln1, Egln2, Eif2ak3, Elk1, Elmod1, Eml5, Enpp5, Epm2aip1, Exoc6b, Fam117a, Fam184b, Fam196a, Fam19a1, Fam20b, Fam60a, Fancm, Fbrs, Fchsd2, Fgf1, Frem1, Frmd5, Gabarapl1, Galnt7, Gas2, Gas2l3, Gbas, Gemin8, Gfpt1, Ghitm, Gigyf2, Gli3, Gm15023, Gm5622, Gm7995, Gnb5, Grhl2, Grik3, Gxylt1, Haus5, Hbb-bt, Hdac7, Hist1h2al, Hmbs, Hn1l, Hoxa5, Hypk, Ifih1, Igf1r, Igf2r, Igfbp5, Il23r, Isg20l2, Itm2b, Jam2, Kansl2, Kcnj12, Kcnn3, Klhl20, Kras, Lamc2, Lasp1, Leprot, Limk2, LOC100045026, LOC102632739, LOC102634361, LOC102634616, LOC102639488, Lpar2, Lpcat2, Lrrc30, Lyrm7, Mab21l1, Macf1, Man1a, Map1b, Map3k7, Mapk7, Mapk8, Mapkapk3, March5, Mark2, Mboat4, Mcf2, Mmd2, Mnt, Mogs, Mpdz, Mrgprx2, Mrpl57, Mul1, Mus81, Myo5c, Naa30, Nav1, Ndst1, Necap1, Neurl1a, Nfyb, Nop9, Npr3, Nr1h5, Nrp2, Nrsn1, Nuak2, Nubpl, Nudt10, Nudt12, Ogfrl1, Opn5, Orc3, Ost4, Papss2, Parp9, Pcdhb11, Pcx, Pde4b, Phactr4, Phf11d, Phf21a, Phldb1, Phtf2, Podxl, Pof1b, Ppm1e, Ppp3r2, Prkce, Prr3, Psme4, Ptn, Ptpn11, Ptpn13, Ptpn3, Ptprb, Pvrl3, Rasal2, Rbm27, Rdh1, Rdh19, Rdh9, Rdx, Rfwd3, Rgs3, Rgs8, Rnf114, Rnf121, Rnf6, Rreb1, Rrp8, Rsrc2, Rtn4, Scaf8, Scamp4, Sec31a, Seh1l, Sema5a, Sept6, Sfxn4, Sh2d2a, Skint10, Slc16a2, Slc38a2, Slc9a8, Smarcd2, Smndc1, Smyd4, Snx12, Snx30, Sowahb, Spg21, Spink13, Spock1, Srrm4, Srsf1, Ssh2, Sstr1, Stac, Stambp, Stradb, Strip2, Strn3, Syt3, Taf1, Tanc2, Tbc1d10b, Tex35, Tm9sf4, Tmem121, Tmem151b, Tmem33, Tmem41b, Tmx4, Tnfaip8l3, Tnfrsf19, Tnrc6a, Trhde, Tshr, Ttpa, Ttyh3, Ube2e3, Ugcg, Uqcrfs1, Usp42, Vapb, Vash1, Vcan, Vps39, Wars2, Wbscr17, Wnt2, Xcr1, Xirp1, Xpot, Zak, Zdhhc9, Zfp128, Zfp148, Zfp236, Zfp275, Zfp282, Zfp318, Zfp488, Zfp518b, Zfp583, Zfp935, Zfp954, Zfyve28, Zyg11b
mmu-miR-148b-3p	miRDB Starbase mirtarbase	1700024P16Rik, 1810026J23Rik, 2310035C23Rik, 2310045N01Rik, 2510039O18Rik, 5430435G22Rik, 8030462N17Rik, 8430427H17Rik, A930001N09Rik, Abca1, Abcb7, Abl2, Acvr1, Acyp2, Adam19, Adam22, Adam23, Adamts15, Adamts18, Adcy2, Agfg1, Ago1, Ago2, Ago4, Agrn, Ahdc1, AI987944, Ajuba, Akap1, Aldh3a2, Amacr, Amer1, Ank2, Ankrd45, Anxa4, Arap2, Arfgef1, Arfip1, Arhgap21, Arhgef12, Arhgef17, Arl6ip1, Arl8b, Armc9, Arpp19, Arrdc3, Atg12, Atg14, Atp11a, Atp2b4, Atp5g3, Atp6v0d1, Atp7a, Atp8a1, Atxn1l, Aurkb, B230219D22Rik, B3galnt1, B4galt5, B630005N14Rik, Bach2, Bcap29, Bcl2l11, Blcap, Bmp2k, Brpf1, Btaf1, Btbd10, Btbd3, C1galt1, Cadm1, Camk2a, Cand1, Canx, Cat, Cblb, Ccdc71, Ccdc85a, Ccna2, Ccnf, Ccnt2, Cd81, Cdk5r1, Cdk8, Cdkn1b, Cds1, Cflar, Chd1, Chrnb2, Chst11, Clca2, Clcn3, Clock, Clrn3, Cmpk1, Cmtm6, Cnep1r1, Col2a1, Cpd, Cpm, Csf1, Csmd1, Cttnbp2nl, Ctxn3, Cul5, Cxcl13, Cyb5r4, Cyp4a14, Cyth3, D1Ertd622e, D230025D16Rik, D5Ertd579e, Dcp1a, Dcp2, Ddx58, Ddx6, Depdc1b, Dfna5, Dgcr8, Dgkq, Dicer1, Dmxl1, Dner, Dnmt1, Dock6, Dock9, Dph2, Dpp3, Dpp4, Dynll2, Efnb2, Egr2, Eif4h, Elavl4, Elf5, Elmo1, Eml6, Eogt, Epb4.1l5, Epn2, Eps15, Erlin1, Errfi1, Esrrg, Etl4, Ets1, Fam104a, Fam105a, Fam178a, Fam184a, Fam43a, Fam73b, Fbn1, Fbxl19, Fbxo33, Fbxw5, Fcho2, Fez2, Fkrp, Fmo9, Fndc4, Foxf1, Fut9, Gabarapl2, Gabrg2, Gadd45a, Gap43, Gcdh, Gjd2, Glce, Glipr2, Glrx5, Gm10439, Gm14680, Gm15080, Gm15085, Gm15091, Gm15093, Gm15097, Gm15107, Gm15114, Gm15127, Gm15128, Gm4980, Gm608, Gmfb, Gpatch8, Gpcpd1, Gpm6a, Gpr107, Gpr157, Gpr183, Gprc5a, Grik3, H2-T23, Hbs1l, Hcn1, Hepacam2, Hipk3, Hlf, Hmg20a, Hmgcr, Hp, Hpca, Hs3st1, Hsp90b1, Hspa4, Hspa5, Ikbkb, Il18bp, Il6st, Ing2, Inhbb, Ino80, Ipmk, Ireb2, Ism1, Itfg3, Itga11, Itga5, Itga9, Itgb3, Itpk1, Itsn2, Ivns1abp, Jarid2, Jph3, Kansl1, Kat7, Kcna1, Kcnj16, Kcnj8, Kdelc2, Kdm2b, Kif14, Kitl, Klc2, Klf4, Klf6, Klhl18, Lbr, Lcor, Ldlr, Lgalsl, Lin28a, Lins, Lipa, Lipi, Lmbr1, LOC101056084, LOC102635781, Loh12cr1, Lonrf2, Lrat, Lrch1, Lrp8, Lrrc41, Lsg1, Ltbp1, Ltf, Luc7l, Luzp4, Lyn, Lypd3, Maf1, Man1a2, Manba, Map3k9, March2, Mbip, Mbp, Med12, Med12l, Meox2, Mesdc2, Mettl21e, Mfge8, Mfsd2a, Mgat4a, Mier1, Mknk1, Mlec, Mllt10, Mllt6, Mlst8, Mmachc, Mmd, Mnt, Mob1b, Mok, Mpp2, Mpped2, Mras, Mrpl19, Mrpl51, Ms4a15, Ms4a4b, Mtf1, Mtmr10, Mtmr12, Mtmr14, Mtss1l, Mum1l1, Mxd1, Myb, Myo5a, N6amt1, Naa15, Naip5, Nat14, Nat8l, Ncam1, Ncln, Ncoa1, Ndor1, Nek9, Neurl4, Nlk, Nme7, Nog, Nol4l, Nox4, Npepl1, Nptn, Nptx1, Nr2c2ap, Nrarp, Nras, Nrp1, Nsg1, Nup62, Oas1c, Ociad2, Ormdl1, Osbpl11, Ott, Otud4, Oxsr1, Pafah1b2, Pag1, Paqr9, Parm1, Patl1, Pbxip1, Pcdhb18, Pcsk9, Pdia3, Pdk1, Pdk4, Pea15a, Pfkfb4, Phactr2, Phc3, Phf20, Phf3, Pi4k2a, Picalm, Pik3r3, Plaa, Plcb1, Pmepa1, Pnpla6, Ppm1l, Ppp1cb, Ppp1r9a, Ppp6r1, Pramef12, Prdm15, Prickle2, Primpol, Prkaa1, Prkag2, Prkcz, Prr16, Prrc1, Psmb6, Ptpn14, Ptpre, Ptprm, Pygo2, Qk, Rab11fip4, Rab12, Rab14, Rab34, Rad51c, Rai14, Ralbp1, Rassf8, Rbfox2, Rbm24, Rc3h2, Rcc2, Rgma, Rictor, Rlim, Rnf139, Rnf165, Rnf38, Rnpepl1, Robo1, Rock1, Rorb, Rph3a, Rragd, Rsbn1l, Rtca, Rtn4, Runx2, Rxfp2, S1pr1, Scaf11, Scml4, Serbp1, Serpine1, Sik1, Sike1, Sirt7, Skp1a, Slc16a6, Slc17a1, Slc22a2, Slc24a2, Slc25a44, Slc25a53, Slc26a4, Slc2a1, Slc35d1, Slc6a2, Slc8a1, Slco4a1, Smad2, Smad7, Smarcc1, Smim12, Smurf2, Snap91, Snapin, Snf1lk, Snn, Snx2, Snx27, Sos1, Sos2, Sowahc, Spdyb, Spry4, Sptssb, Spty2d1, Srsf11, St18, St8sia3, Stam, Stard13, Stk38l, Stt3b, Stx7, Stxbp2, Stxbp5, Sulf1, Sun2, Syncrip, Syne2, Synj1, Sypl, Szrd1, Taf4a, Taf4b, Tbc1d24, Tbck, Tbl1xr1, Tbp, Tcp1, Terf2, Tgfbr1, Tgif2, Tgs1, Thsd1, Tigd5, Tmed7, Tmem164, Tmem178b, Tmem54, Tmem9b, Tmod1, Tmprss3, Tmsb4x, Tnfrsf21, Tnpo1, Tnpo3, Tnrc6a, Tnrc6c, Tpp1, Trib2, Trim43b, Trp53inp1, Trps1, Tulp3, Txnip, Ubap2l, Ubash3b, Ube2d1, Ube2d3, Ube2w, Ube3b, Ube4b, Ubl3, Ucp3, Uggt2, Uhrf1bp1, Unc119b, Usp25, Usp31, Usp32, Usp33, Usp47, Usp48, Usp8, Vangl1, Vit, Wasl, Wdr33, Wnt1, Wnt10b, Xaf1, Ykt6, Ythdc2, Ywhab, Yy2, Zadh2, Zbtb42, Zbtb44, Zfp110, Zfp217, Zfp280b, Zfp39, Zfp607, Zfp719, Zfpm2, Zfyve26, Zmat3, Znrf1
mmu-miR-186-5p	miRDB Starbase mirtarbase	0610030E20Rik, 1110057K04Rik, 2210016F16Rik, 2210407C18Rik, 2810403A07Rik, 4931406C07Rik, 4931406P16Rik, 4933427D06Rik, A430107P09Rik, A630033H20Rik, A830018L16Rik, Acap2, Acbd5, Acn9, Actg1, Actr10, Actr2, Aff1, Aff4, Aftph, Agbl2, Agpat5, Ahcyl1, Ak4, Akirin1, Aldh6a1, Alg11, Alkbh5, Ankib1, Ankrd29, Ano1, Apbb2, Apcdd1, Aplp2, Arhgap15, Arih1, Arl6ip6, Armc1, Arsk, Asb1, Aspa, Asph, Asz1, Atl1, Atl2, Atp6v1e1, Atp6v1g1, Atp6v1h, Atrx, Atxn7, Avpr1a, Axl, Bach2, Bag4, Bbx, Bcar3, Bcl11b, Bcl2l13, Bdnf, Bet1, Bicd1, Bicd2, Brinp2, Brix1, Btbd1, Btf3, Btg2, C230081A13Rik, C330007P06Rik, C330027C09Rik, Cabs1, Cacnb2, Calb1, Calu, Camta1, Capza1, Carf, Casc4, Cask, Casp14, Cbll1, Ccdc122, Ccdc138, Ccl9, Ccnd1, Ccnd2, Ccnt2, Ccser1, Cd55, Cd81, Cd93, Cdc42, Cdc42bpa, Cdc42se2, Cdh11, Cdk12, Celf1, Cept1, Cers3, Ces2g, Ces5a, Cfap20, Cfi, Chmp5, Chp1, Chrnb3, Chsy3, Clasp2, Clcn3, Clec2e, Clec4n, Clic5, Cnot4, Cnot6l, Cntln, Cntnap1, Cobll1, Col10a1, Colec12, Cox6c, Cpox, Cramp1l, Crispld2, Crybg3, Csf2rb2, Csrnp2, Ctbs, Ctps2, Cul4b, Cwf19l2, Daam1, Dcbld2, Dcdc2a, Dlg1, Dlg5, Dnajb9, Dnajc27, Dnajc3, Dnal4, Dpp6, Dpp9, Dtx3l, Dusp3, Dync1i2, Dynlt1a, Dynlt1b, Dynlt1c, Dynlt1f, Eaf1, Edil3, Efemp1, Eif2d, Eif3a, Eif4e, Eif4g2, Eif5, Elovl5, Emc3, Eml2, Emr4, Epb4.1l2, Epb4.1l3, Epc1, Epc2, Epdr1, Epha5, Ephb1, Epm2aip1, Esyt2, Etaa1, Exph5, Fam120a, Fam124b, Fam134b, Fam160b1, Fam18b, Fam63b, Fam84a, Fam96a, Fasl, Fblim1, Fbxo30, Fbxo8, Fcho1, Fhl4, Ficd, Fkbp14, Fmnl2, Fnbp1l, Fndc3b, Fnip2, Foxd1, Foxd3, Frmd4a, Frmd4b, Frs2, Fsd1l, Fxr1, Gabra1, Gabra4, Gad2, Gal3st3, Gbe1, Gcc1, Gcfc2, Gclm, Gdi2, Gimap8, Gjc3, Gm16340, Gm21110, Gm3045, Gm5148, Gm5858, Gnai1, Gnai3, Golga4, Golm1, Golt1b, Gosr1, Gpatch11, Gpatch2l, Gpr12, Gpr64, Gria2, Gria3, Gtf3c3, Guf1, H2-Q1, Heca, Helb, Hiat1, Hiatl1, Hic2, Hipk1, Hmgcr, Hnrnpa3, Hunk, Hyou1, Id4, Ifi203, Ifi204, Ifnar1, Igf2bp2, Igsf11, Il13ra1, Il2, Il21, Ildr2, Impg2, Ino80d,Inpp4b,Insm1,Ints2,Intu,Iqcj,Irf4,Ispd,Itga6,Itgav,Itm2a,Itm2a,Itm2b,Itsn2,Jph1,Kansl1l,Kat6a,Kcnb2,Kcne2,Kcnj15,Kcnk2,Kctd3,Kdelr1,Kdelr2,Kdm1b,Kdm7a,Kdsr,Klhl8,Kpna6,Krt71,Krtap4-7,Lamp2,Lancl3,Lcp1,Lilrb4,Lingo2,LOC100044068,LOC100862473,LOC102635740,LOC102641031,LOC102641436,LOC102641512,Lonrf3,Lppr4,Lrba,Lrch2,Lrig1,Lrig2,Lrrc39,Lrrc58, Lrrn1, Luc7l2, Lztfl1, Mab21l2, Maml2, Map3k1, Mars2, Mbd2, Mblac2, Mbnl2, Mdm4, Megf11, Mettl9, Mex3b, Mfap3l, Mfn2, Mfsd11, Minos1, Mitf, Mllt6, Mmgt1, Mmp12, Mnat1, Mocs2, Mon2, Mpzl1, Mtmr9, Mtpn, Mxi1, Myocd, Myt1, Nalcn, Ncoa3, Ndfip2, Ndnf, Ndst4, Ndufaf4, Negr1, Nelfa, Neurod4, Nfat5, Nfia, Nkx2-1, Noc3l, Nol4, Nphp3, Npnt, Nr1d2, Nr2c1, Nr5a2, Nras, Nsd1, Nsmce2, Nup35, Nxph1, Obox6, Odf2l, Olfr1426, Olfr701, Opn5, Oprk1, Otc, Otx1, Oxr1, Pam, Pan3, Papd5, Papd7, Pard6g, Parg, Pbx1, Pcdha1, Pcdha11, Pcdha12, Pcdha2, Pcdha3, Pcdha4, Pcdha5, Pcdha6, Pcdha7, Pcdha9, Pcdhac1, Pcdhac2, Pcdhb16, Pcdhb3, Pcmtd1, Pcnp, Pcnt, Pdcd10, Pdcd6ip, Pde10a, Pdgfc, Pdik1l, Phf14, Phf21b, Phf6, Pid1, Pik3c2a, Pik3ca, Pja2, Pkp2, Plekha1, Pls3, Pnn, Pnpla8, Ppfia2, Ppfibp1, Ppfibp2, Ppig, Ppp1cc, Prdm1, Prkar2b, Prkca, Prkci, Prpf39, Prrg3, Prss35, Psme3, Psph, Ptar1, Ptges3, Ptpn4, Ptprb, Purb, Pxdc1, Pyhin1, Qpct, Rab11fip2, Rab21, Rab8b, Rabgap1l, Rabif, Rac1, Ranbp3l, Rap1b, Rasa1, Rb1cc1, Rbfox1, Rbm25, Rbm26, Rbm28, Rev1, Rfwd2, Rhobtb3, Ric1, Rims2, Riok1, Riok3, Rnf11, Rnf180, Rnf34, Samd4, Sar1a, Sat1, Sbno1, Scai, Scarf1, Scml2, Scml4, Scn9a, Sec14l1, Selt, Sema4d, Senp6, Sept7, Serinc3, Serinc5, Serpine2, Setd8, Sgpp2, Sh3rf1, Shc2, Shprh, Sipa1l3, Skint3, Slc12a2, Slc1a1, Slc24a5, Slc26a5, Slc34a1, Slc35a5, Slc4a4, Slc6a15, Slc7a11, Slitrk2, Slk, Sltm, Smim14, Smim15, Sntb2, Sort1, Sp1, Sp3, Sp6, Spast, Spin4, Sppl2a, Srek1, Srpk2, Srsf6, St7l, St8sia1, Stag2, Stil, Stk26, Stk32a, Stk35, Stxbp4, Styk1, Sucla2, Supt16, Suz12, Syap1, Synj2bp, Tada2b, Taf2, Tapt1, Tardbp, Tbc1d15, Tbl1xr1, Tcerg1, Tcp11l1, Tfap2c, Tfdp2, Tgfbr2, Tgfbr3, Ticam2, Tinagl1, Tle1, Tmed2, Tmed5, Tmem170b, Tmem246, Tmem263, Tmem30b, Tmem33, Tmem35, Tmem8b, Tmf1, Tmprss11b, Tmprss11f, Tmsb4x, Tnfrsf23, Tnfsf11, Tob1, Tomm22, Tpr, Traf4, Trappc8, Trim67, Trim9, Trip4, Tspan2, Ttc17, Ttc33, Tyw5, U2surp, Ube2b, Ube2g1, Ube2r2, Ube2v2, Ube3a, Ubqln2, Ubr3, Ubxn2b, Ubxn7, Uhrf1bp1l, Ulk2, Unc5d, Usp14, Usp45, Utp23, Vegfa, Vezt, Vip, Vkorc1l1, Vsig4, Wdr37, Wdr44, Wdr45l, Wnt7a, Xiap, Xrcc4, Yipf6, Yy1, Zbtb39, Zbtb41, Zbtb44, Zbtb7a, Zc3h11a, Zc3h18, Zc4h2, Zcchc11, Zfand3, Zfp106, Zfp131, Zfp280c, Zfp330, Zfp606, Zfp608, Zfp617, Zfp639, Zfp644, Zfp706, Zfp710, Zfp758, Zfp788, Zhx1, Zswim4
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targets common to miRDB and starbase are in blue fonts
targets common to miRDB and miRtarbase are in red fonts