



Supplementary Table 1a: miRNA expression changes according to their control

	miR-3613-3p	miR-150-5p	miR-126-3p	miR-361-5p	miR-499a-5p	miR-19a-3p
Patients (n=45)	0.068729	1.88095	0.001175	0.001407	0.000916	0.181856
	17.72%	19.63%	1.34%	0.99%	0.76%	20%
Patient Boy (n=31)	0.059732	2.011178	0.001262	0.001453	0.000978	0.182325
	15.40%	20.99%	1.44%	1.02%	0.81%	20%
Patient Girl (n=14)	0.072791	1.822137	0.001135	0.001386	0.000888	0.181644
	18.77%	19%	1.30%	0.97%	0.73%	19.99
Father (n=37)	0.14908	3.864137	0.044443	0.056022	0.05261	0.427877
	56.66%	52.80%	23.30%	60%	53.80%	59.90%
Mother (n=37)	0.190171	4.844019	0.045732	0.079835	0.065262	0.573587
	49.50%	46.50%	16.80%	42.50%	39%	43.10%
Control (n=37)	0.38777	9.580365	0.087165	0.141492	0.120486	0.908365

	miR-3613-3p	miR-150-5p	mi-126-3p	miR-361-5p	miR-499a-5p	miR-19a-3p
Patient (n=45)	0.069 ± 0.05	1.900 ± 1.22	0.001 ± 0.25	0.001 ± 0.05	0.001 ± 0.002	0.182 ± 0.09
Patient boy (n=31)	0.0678 ± 0.05	1.8367 ± 1.3	0.0007 ± 0.002	0.0009 ± 0.002	0.0005 ± 0.002	0.1868 ± 0.1
Patient girl (n=14)	2.2131 ± 1	2.2131 ± 1	0.001 ± 0.001	0.0012 ± 0.001	0.0008 ± 0.0008	0.1910 ± 0.03
Father Patient (n=37)	0.150 ± 0.15	3.864 ± 3.84	0.044 ± 2.99	0.056 ± 0.11	0.053 ± 0.09	0.428 ± 0.48
Mother Patient (n=37)	0.190 ± 0.19	4.844 ± 3.74	0.046 ± 0.12	0.080 ± 0.06	0.065 ± 0.12	0.574 ± 0.43
Control Child (n=21)	0.373 ± 0.37	10.570 ± 7.06	0.066 ± 0.03	0.103 ± 0.08	0.086 ± 0.05	0.817 ± 0.51
Control Father (n=16)	0.344 ± 0.34	8.196 ± 4.06	0.058 ± 0.03	0.140 ± 0.05	0.114 ± 0.04	1.069 ± 0.47
Control Mother (n=16)	0.380 ± 0.38	9.062 ± 3.6	0.055 ± 1.56	0.139 ± 0.05	0.107 ± 0.04	1.009 ± 0.45

Note: Values are expressed as mean ± sd

Six- miRNA transcripts (Raw data after normalization) down-regulated profiles in children with autism, sibling and their mothers and fathers compared to age- and sex-matched healthy controls ($p < 0.0001$) (One-way ANOVA tests).

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Supplementary Table 1b: Highest male patient.

	miR-3613-3p	miR-150-5p	miR-126-3p	miR-361-5p	miR-499a-5p	miR-19a-3p
Highest male patient	0.22677	4.60698	0.0152	0.01699	0.01186	0.54408
Sibling	-	-	0.00069	0.0009512	0.0005391	0.4458595
Mother	0.0564882	2.543656	2.48973	0.049558	0.0565165	1.3112864
Father	0.2323707	1.8796633	0.01785	0.0527888	0.0416584	0.8113038
Highest Control	0.9677	22.93099	0.13528	0.22768	0.22102	1.65524
Highest Father Control	0.5538	13.72433	0.13292	0.26512	0.18145	2.04072
Highest Mother Control	0.69384	16.73969	0.13292	0.26512	0.18145	2.04072

Supplementary Table 1c: Highest female patient.

	miR-3613-3p	miR-150-5p	miR-126-3p	miR-361-5p	miR-499a-5p	miR-19a-3p
Highest female patient	0.1572	4.1346	0.0039	0.0044	0.0031	0.2593
Sibling	0.0992	2.7277	-	-	-	0.2367
Mother	0.0711	2.3298	0.0241	0.0472	0.0445	0.1453
Father	0.0812	1.2989	0.0436	0.2335	0.1843	0.1243
Highest Control	0.9677	22.931	0.1353	0.2277	0.221	1.6552
Highest Father Control	0.5538	13.7243	0.1329	0.2651	0.1814	2.0407
Highest Mother Control	0.6938	16.7397	0.1329	0.2651	0.1814	2.0407

Supplementary Table 1d: Highest mother patients

	miR-3613-3p	miR-150-5p	miR-126-3p	miR-361-5p	miR-499a-5p	miR-19a-3p
Patient	0.0471441	2.404379	0.001528	0.000744	0.0005198	0.130406
Sibling	-	1.17339	-	-	-	-
Highest mother	0.5763	17.92144	0.19758	0.26464	0.17495	2.10134
Father	0.2259759	0.074709	0.001101	0.018033	0.0200327	0.320819
Highest Control	0.9677	22.93099	0.13528	0.22768	0.22102	1.65524
Highest Father Control	0.5538	13.72433	0.13292	0.26512	0.18145	2.04072
Highest Mother Control	0.69384	16.73969	0.13292	0.26512	0.18145	2.04072

Supplementary Table 1e: Highest father patients

	miR-3613-3p	miR-150-5p	miR-126-3p	miR-361-5p	miR-499a-5p	miR-19a-3p
Patient	0.111918	2.082017	0.00066	0.000738	0.000516	0.163678
Sibling	-	0.556816	-	-	-	-
Mother	0.154999	4.961163	0.08276	0.051677	0.058853	0.308682
Highest father	0.55897	17.13459	0.88139	0.61632	0.52845	2.26849
Highest Control	0.9677	22.93099	0.13528	0.22768	0.22102	1.65524
Highest Father Control	0.5538	13.72433	0.13292	0.26512	0.18145	2.04072
Highest Mother Control	0.69384	16.73969	0.13292	0.26512	0.18145	2.04072

Supplementary Table 1f: Highest male Sibling patients

	miR-3613-3p	miR-150-5p	miR-126-3p	miR-361-5p	miR-499a-5p	miR-19a-3p
Patient	0.08123	2.63195	0.0024	0.0027	0.0019	0.112818
Highest male Sibling	0.18791	6.01827	0.0022	0.0025	0.0017	0.44586
Mother	0.04919	2.06106	0.03356	0.066	0.1078	0.320951
Father	0.00917	0.59173	0.00089	0.0022	0.0007	0.46838
Highest Control	0.9677	22.93099	0.13528	0.2277	0.221	1.65524
Highest Father Control	0.5538	13.72433	0.06589	0.2651	0.1815	2.04072
Highest Mother Control	0.69384	16.73969	0.13292	0.2007	0.1498	1.44065

Supplementary Table 2

Summary of Target Genes for miRNAs

Common targets at least shared between five /or four miRNAs.

1. Common targets of 5 miRNAs:

- AEBP2 AE binding protein 2
- CFL2 Cofilin 2 (muscle)
- EIF4E* Eukaryotic translation initiation factor 4E binding protein 2

2. Common targets of 4 miRNAs:

- AGO1* Argonaute RISC catalytic component 1
- AGO2* Argonaute RISC catalytic component 2
- AGO3 Argonaute RISC catalytic component 3
- CDK13* Cyclin-dependent kinase 13
- CDK19* Cyclin-dependent kinase 19
- DDX3X* DEAD (Asp-Glu-Ala-Asp) box helicase 3, X-linked
- FUT9* Fucosyltransferase 9 (alpha (1,3) fucosyltransferase)
- IL1RAP* Interleukin 1 receptor accessory protein-like 1
- MDM4 Mdm4 p53 binding protein homolog (mouse)
- PLXNC1 Plexin C1
- PTP4A1 Protein tyrosine phosphatase type IVA, member 1
- PTPRG *Protein tyrosine phosphatase, receptor type, G
- RAD23B RAD23 homolog B (*S. cerevisiae*)
- SLC25A12* Solute carrier family 25 (aspartate/glutamate carrier), member 12
- TESK2 Testis-specific kinase 2
- TET3* Tet methylcytosine dioxygenase 3
- ZBTB10 Zinc finger and BTB domain containing 10

¹Autism-related genes demonstrate with star(*)²All miRNAs' target genes data were taken from TargetScan Release 7.1 and analyzed.

miRNA's Target genes List

Common target genes of miR-19a-3p, miR-150-5p, miR-361-5p, miR-499a-5p and miR-3613-3p (n=3)

Aebp2, Cfl2 and Eif4e

Common target genes of miR-19a-3p, miR-361-5p, miR-499a-5p and miR-3613-3p (n=7)

Ago2, Cdk19, Ddx3x, Fut9, Ptprg, Slc25a12 and Zbtb10.

Common target genes of miR-19a-3p, miR-150-5p, miR-499a-5p and miR-3613-3p (n=6)

Ago3, Cdk13, Il1rap1, Plxnc1, Ptp4a1 and Tesk2

Common target genes of miR-19a-3p, miR-150-5p, miR-361-5p and miR-3613-3p (n=4)

Ago1, Mdm4, Rad23b and Tet3.

Common target genes of miR-19a-3p, miR-499a-5p and miR-3613-3p (n=81)

Abcb7, Ankrd13c, Arid5b, Asb7, Atf2, Bnc2, Btg1, C5orf24, Ccm4l, Celf1, Celsr1, Cnot6l, Cntnap5, Crebzf, Csnk1g1, Csmrp3, Dcp2, Dcun1d1, Ddx3y, Dnal1, Ebf1, Eea1, Eif4e3, Eif4g2, Elmod2, Evi5, Fem1c, Fndc3a, Foxp2, Gmfb, Gppp1, Hspa4l, Ino80, Insig1, Kctd16, Kiaa1468, Klfl7, Klhl42, Kpna3, Ltn28b, Lrch2, Map3k2, Mapk6, Med13, Msi2, Nlk, Nrarp, Orc2, Pde3b, Phf17, Prkaa2, Pten, Qki, Rab21, Rbms3, Reep1, Samd8, Satb1, Secisbp2l, Sh3kbp1, Shcbp1, Six1, Slc35f1, Sorl1, Sox4, Sox5, Sox6, Srpk2, Syt1, Tacc1, Thrb, Tmbim6, Trerf1, Ubn1, Ubn2, Vcpr1, Vkorc1l1, Yipf6, Yy1, Zdhhc2 and Znf2.

Common target genes of miR-19a-3p, miR-361-5p and miR-3613-3p (n=42)

Aak1, Arhgef12, Bmpr2, Cbfa2t2, Cds1, Csm1, Ctdspl2, Dcun1d3, Dnmt3a, Dync1li2, Erbb4, Etv3, Gnptg, Hcfc2, Homer1, Igsf10, Ino80d, Kpna4, Lmbr1, Lnpep, Mecp2, Mef2d, Mex3a, Mllt6, Nfia, Nhs, Nkx6-1, Phax, Prune2, Setd9, Syncr1p, Tgfb2, Tmem106b, Tmem64, Tsc1, Uhrf1bp1l, Ulk2, Zbtb18, Zhx3, Zmat3, Znf516 and Znf704.

Common target genes of miR-361-5p, miR-499a-5p and miR-3613-3p (n=18):

Arglu1, Cdyl2, Cmc1, Dcun1d5, Gja9, Gpr180, Larpp4b, Lng2, Mtx3, Mycbb, Ppm1d, Sh3bgrl2, Slc24a2, Slc41a1, Tmem178b, Ube2v2, Wdr41 and Znf24.

Common target genes of miR-19a-3p, miR-150-5p and miR-361-5p (n=1)

Prckle2.

Common target genes of miR-19a-3p, miR-150-5p and miR-361-5p (n=1)

Ahsa2, Gpr75, Ipo9, Pcnp, Pde7a, Pkp4, Sp1 and Tenm4.

Common target genes of miR-19a-3p, miR-150-5p and miR-3613-3p (n=40)

Abi2, Adipor2, Arh2, Azin1, Cast, Cend2, Cdc73, Clcn6, Cpd, Cpbe4, Cyb561d1, Dkk3, Dsel, Dynll2, Fam179b, Fbxw11, Fosl2, Foxp1, Hif1a, Hnrnpu, Itgb3, Klhl3, Map1b, Map3k12, Nbea, Nfic, Pcdh1, Ptk3cb, Rasgef1a, Rimk1a, Rims2, Srgap3, Usp13, Vmp1, Vps53, Vsig10, Zbtb20, Zbtb4, Zc3h10 and Zfp91.

Common target genes of miR-19a-3p, miR-150-5p and miR-499a-5p (n=1)

Pfn2

Common target genes of miR-19a-3p, miR-126-3p and miR-3613-3p (n=1)

Itga6.

Common target genes of miR-126-3p and miR-3613-3p (n=13)

Adam9, Herpud1, Kank2, Slc7a5, Fbxo33, Plk2, Crk, Irs1, Dtp2c, Efh2, Gna13, Gbp2 and Akap13.

Common target genes of miR-19a-3p and miR-126-3p (n=1)

Camsap1.

Common target genes of miR-499a-5p and miR-3613-3p (n=221)

Abi1, Acvr2b, Adam10, Adcyap1, Akr1d1, Ankrd40, Ap1g1, Arid2, Armc2, Atad1, Atrn, Bcl11b, Bhlhe41, C1d, C20orf112, Cacnb2, Capn7, Ccdc50, Ccdc71l, Cd38, Cdc27, Cdc6, Cdca4, Cdh2, Cdk14, Cdk6, Chd9, Chl1, Cisd2, Cldn11, Clybl, Cmp, Cntnap2, Col4a3, Commd2, Cpsf2, Crp, Dcc, Ddx4, Derl2, Dgcr8, Dld, Dnah3, Dsn1, Dyrk2, Efnb1, Eif3j, Eif5, Elavl4, Eml4, Enah, Epp41l2, Eph3, Eph5, Ero1l, Esrrg, Ets1, Eya4, Fam102b, Fam110b, Fam131b, Fam204a, Fam217b, Fam60a, Fam63b, Fam76a, Faxc, Fbxl3, Fbxl4, Fbxo42, Fbxw7, Fgf2, Fgf9, Fkbp5, Fnbp4, Fnip1, Fnip2, Foxg1, Fyn, Fzd8, Gabra1, Gpc6, Greb1, Gxylt1, H3f3b, Haus6, Hic2, Hlcs, Hook3, Hoxd9, Hp1bp3, Hspa4, Iffo2, Ikzf2, Ikzf5, Impg2, Inip, Insr, Irf2bpl, Irx5, Itgbl1, Jag1, Jhdm1d, Jph1, Kiaa1614, Kif26b, Kif5b, Klhl15, Lamp3, Lcor, Lmcd1, Lmnb2, Lmx1a, Lrp8, Lrrc8a, Lrrc8c, Lrrtm1, Mapre2, Marcks, Med7, Meis1, Mimos1, Msl1, Mtdh, Mtmr3, Myef2, Mylk, Nav2, Nipal1, Nova1, Nr1p1, Pacs2, Paup2b, Pank1, Papola, Pbrm1, Pde10a, Ptp5k1c, Pogz, Ppil4, Ppp3ca, Ppp3cb, Ppp6c, Pkfab2, Prmt3, Proser2, Prr18, Psd3, Ptar1, Ptbp3, Ptpdc1, Ptpn4, Purb, Rab11fip4, Rab22a, Rab3c, Rad54l2, Rasgrp3, Rcan3, Rfx7, Rims1, Rmnd5b, Rnf114, Rnf115, Rnf152, Rsnb1, Rtkn2, Rybp, Scn2b, Scrg1, Sec62, Sertad2, Setbp1, Sgfp1, Sh3bp5, Slc12a2, Slc30a4, Slc7a6, Smc6, Smim15, Snrk, Snx2, Stau2, Stc1, Syap1, Tanc1, Tandbp, Tbc1d15, Tbc1d22b, Tcf12, Tgfb1, Tle4, Tmem189, Tmem189, Ube2v1, Top1, Tox3, Trim13, Trim67, Tshz2, Tspan12, Tspan6, Ube2n, Ube2nl, Ube2v1, Ube2w, Usp24, Usp47, Vav3, Vgll2, Wdr82, Wuc2, Xkr4, Xrn1, Ybx1, Yipf4, Zdhhc13, Zic3, Znf19, Znf280c, Znf281 and Znf518b.

Common target genes of miR-19a-3p and miR-499a-5p (n=12)

Acbd5, Dennd4c, Eif4a2, Fam168a, Ppfia2, Rnf145, Rnf44, Sec11a, Sos2, Steap2, Sybu and Thra

Common target genes of miR-19a-3p and miR-3613-3p (n=827)

Abca1, Abcd3, Abhd17c, Abhd5, Abr, Acer2, Acp1, Acsbg1, Acs14, Adam12, Adamts17, Adamts18, Adcy9, Add3, Adnp, Adrb1, Aff1, Aftph, Agpat5, Aida, Ak3, Akap1, Al590483.1, Alg14, Ammecr1, Ankrd12, Ankrd29, Ano3, Apold1, Appl1, Ar, Arfgef1, Arfgef2, Arfip1, Arhgap11a, Arhgap12, Arhgap5, Arhgef26, And1a, And4b, Arl8a, Armc8, Arpp19, Asap2, Asxl2, Atg14, Atg16l1, Atp2b2, Atp2c1, Atp6v1b2, Atrx, Atxn1, Atxn1l, Atxn7, Atxn7l1, B3galnt2, B3galt5, B4galt5, Bag5, Bambi, Barhl2, Bcl2l11, Bcl7a, Bend3, Bend4, Bcd1, Bicap, Bmp2k, Bmp3, Bnip2, Bptf, Brwd1, Brwd3, Btaf1, Btbd7, Btf3l4, C11orf30, C11orf57, C12orf66, C16orf52, C19orf40, C20orf194, C21orf91, C2orf42, C3orf70, C5orf30, C6orf222, C7orf60, C9orf69, Cab39, Cacna1c, Cacul1, Cadm2, Cald1, Calm1, Camsap2, Cand1, Caprn1, Caprn2, Casz1, Cbfb, Cblb, Cbln2, Cbx6, Ccdc126, Ccdc144a, Ccdc149, Ccdc152, Ccdc6, Ccer1, Ccnd1, Ccn1l, Ccnt2, Ccser2, Cd164, Cd84, Cdc42bpa, Cdh11, Cdh20, Cecr2, Cep170, Cep350, Chd5, Chuc1, Chst1, Chst7, Clip1, Clip4, Clock, Cnga3, Cnksr2, Cnot6, Cnot7, Cnr1, Col19a1, Coq10b, Coq6, Cox15, Cox8c, Cpeb1, Cpeb3, Cr2, Crp, Crebl2, Crebrf, Crmp1, Cs, Cse1l, Csf2rb, Ctgf, Cul5, Cyld, Dag1, Dbn1, Dcaf7, Dcaf8, Decld2, Dda1, Dhd1, Ddi2, Ddx6, Dennd6a, Dgke, Dhx33, Dhx40, Dicer1, Dras2, Dkfp779j2370, Dlc1, Dlg5, Dmxl2, Dnaja2, Dnajb1, Dnajb14, Dnajc16, Dock4, Dock5, Dscam, Dtna, E2f8, Ebf2, Ednrb, Efn5, Efr3a, Egf, Egr3, Ehb1, Elk3, Ell2, Elovl5, Emc7, Emx2, Enc1, Enpp5, Eogt, Epc1, Epc2, Epg5, Epn2, Erbb3, Ereg, Esr1, Etnk1, Etw1, Etw5, Exoc5, Exoc6b, Ext1, F3, Fam104a, Fam114a1, Fam126b, Fam155a, Fam160a1, Fam20b, Fam43a, Fam46a, Fam46b, Fam46c, Fam73a, Fam76b, Fam83d, Fam83f, Fas, Fat3, Fbxo28, Fbxo32, Fbxo36, Fbxo48, Fgf10, Fhl5, Ficd, Fkbp15, Fmr1, Fnbp1l, Fndc3b, Fras1, Frk, Frmd6, Frs2, Fut4, Fxr1, Fzd3, Fzd6, G2e3, G3bp2, Gabarapl1, Gabrb2, Galnt1, Gapvd1, Gareme, Gatad2b, Gatsl2, Gda, Gfpt1, Ghr, Grgf1, Gt2, Gja1, Glcc1, Glra3, Gltp, Gnaq, Gnb1l, Golga8f, Golga8g, Gpr153, Gprn3, Gramd1b, Grb10, Grn2a, Grsf1, Gtf2a1, Gtf2h1, Gulp1, Havcr1, Hdac4, Hectd3, Hecw2, Heg1, Hey2, Hgf, Hhup, Hic1, Hip1, Hipk1, Hipk3, Hlf, Hmgs1, Hnrpa1, Hnrpd, Hnrpf, Hnrnpul1, Hnrnpul2, Hox5, Hoxa9, Hoxd1, Hrk, Hs2st1, Hspa2, Hspbp1, Id2, Id4, Igf1, Igf2r, Igfbp3, Igsf3, Ikkf1, Il1r1, Il6st, Inhba, Insig2, Ipmk, Ireb2, Itch, Itga11, Itga2, Itgb8, Itpkb, Itpr12, Jand2, Kalm, Katnal1, Kazn, Kbtbd8, Kcnh1, Kcnh5, Kcnj2, Kcnj6, Kcnk10, Kcnk2, Kcns2, Kcnv1, Kdm2a, Kdm2b, Kdm6a, Kiaa0101, Kiaa0355, Kiaa1211, Kiaa1217, Kiaa1244, Kiaa1462, Kiaa1598, Kiaa1671, Kiaa2013, Kif13a, Kif1b, Kif3a, Kit, Klf10, Klf12, Klf13, Klf2, Klf6, Kihl11, Kihl20, Kihl28, Knstrn, Kntc1, Kpna6, Kras, L3mbtl3, Lbh, Lclat1, Ldlr, Lgalsl, Lhx9, Lmch1, Lm9, Lmln, Lonrf3, Lpgat1, Lphn2, Lphn3, Lpp, Lppr1, Lrch1, Lng3, Lrp12, Lrrc16a, Lrrc40, Lrrc8b, Lrrk1, Lrrtm2, Lsmp, Lsm12, Luzp1, Lzic, Macf1, Maml1, Man1c1, Map2k3, Map3k1, Map4k3, Mapk1, Mapk14, Mapk8, Marc1, Mark2, Mastl, Mb21d2, Mbd2, Mbnl1, Mbnl3, Mcc, Mctp1, Mdfic, Mecom, Med12l, Mef2c, Memo1, Mfap3l, Mfsd6, Mfsd9, Mgat5, Mib1, Mical2, Mid1, Mid1ip1, Mier1, Mier3, Mipol1, Mkl2, Mlec, Mlt10, Mltk, Mmg1, Mn1, Mob1b, Mpped2, Mprnp, Mrpl17, Msmo1, Mst4, Mtf2, Mtmr10, Mtmr12, Mtmr6, Mxd1, Mybl1, Mycn, Myrn, Myt1l, Naaladl2, Nacc1, Nacc2, Nanp, Nav3, Nbeal1, Ncald, Nckap1, Nckap5, Nckpsd, Ndfip2, Ndnf, Nek10, Nek9, Neurl1b, Neurod1, Nf1, Nfatc2, Nfib, Ngdn, Nhsl2, Nkrf, Nmt2, Nol4, Npas2, Npas3, Nptn, Npy2r, Nr3c2, Nrk, Nuak1, Nudcd3, Nufip2, Nup37, Nup54, Nus1, Onecut1, Osbp16, Otud1, Otud7b, Pacs1, Papd4, Parm1, Parp8, Parvb, Pat1, Pax6, Pcbd2, Pcdh10, Pegf5, Pde4a, Pde5a, Pdik1l, Pea15, Pex5l, Pfkfb3, Pfn1, Pgl1, Pgm21l, Phactr4, Phf12, Phf13, Phf14, Phf15, Phlda1, Phlda3, Phlpp2, Phf2, P15, Pik3c2a, Pik3ca, Pik3r3, Pikfyve, Pttm2, Pknox1, Plaa, Plag1, Plcl1, Plxdc2, Plxna4, Pmepa1, Pnrc1, Pon2, Pou2f1, Pou3f2, Pou4f1, Pp13439, Ppara, Ppig, Ppm1a, Ppp1r12a, Ppp1r13l, Ppp1r15b, Ppp2r5a, Ppp2r5e, Ppp4r4, Ppp6r2, Ppp6r3, Pptc7, Prc1, Prkaa1, Prkacb, Prkar2a, Prox1, Prr14l, Prrt3, Psc, Ptchd4, Ptges3, Ptpn14, Ptpn21, Ptpnd, Purg, R3hdm2, Rab14, Rab18, Rab23, Rab2b, Rab33b, Rab4a, Rab5b, Rab8b, Rad51d, Rai2, Ralgs1, Ralgs2, Rap1a, Rap1b, Rap2b, Rap2c, Rapgef2, Raph1, Rasa1, Rassf2, Rbbp8, Rbfox2, Rbm20, Rbms1, Rcor3, Reep3, Rest, Rfx4, Rgmb, Ric3, Rictor, Rin2, Rlim, Rnf11, Rnf111, Rnf165, Rnf2, Rnf38, Ror1, Rora, Rp11-676j12.7, Rp1-170o19.20, Rp11-766f14.2, Rpap3, Rprd2, Rps24, Rps6ka2, Rps6ka5, Rragc, Rragd, Runx1t1, Rxra, S100bbp, S1pr1, S1pr2, Samd4a, Sar1a, Sar1b, Sbf2, Scarf1, Scml2, Scn2a, Scn3a, Scn4b, Scn8a, Scube3, Sdc1, Sec22a, Sec61a1, Sec61a2, Sec63, Sept7, Sermc3, Sesn3, Sfmtb1, Sgcb, Sgcd, Sgk1, Sgms2, Sh3d19, Sh3pxd2a, Sh3rf3, Shc3, Shroom3, Sik3, Sipa1l1, Sirt5, Skida1, Skil, Slc16a7, Slc17a6, Slc22a3, Slc24a3, Slc24a4, Slc25a34, Slc26a4, Slc26a7, Slc2a4rg, Slc30a7, Slc31a2, Slc35c2, Slc35d1, Slc35e2b, Slc48a1, Slc6a11, Slc6a6, Slc8a1, Slc9a2, Slc9a6, Smad5, Smarca2, Smardc2, Smarce1, Smcr8, Smg1, Smurf2, Snip1, Sntg1, Snx18, Snx27, Socs3, Socs5, Socs6, Sowahb, Sox21, Spata12, Spata2, Spats2l, Spen, Spp20, Spire1, Spock1, Spred2, Spry3, Sptssa, Srpx2, Srsf6, St3gal5, St8sia4, Stam2, Stambpl1, Stk35, Stox2, Strn3, Sulf1, Suz12, Swc2, Synm, Synpo2, Syt11, Syt2, Syt6, Taok1, Tars, Tbc1d12, Tbc1d25, Tbc1d8, Tbccl, Tbk1, Tbr1, Tbx18, Tceb3, Tfcp2l1, Tfdp2, Tgfbrap1, Tgfr1, Tgm5, Tgoln2, Thbs1, Thsd7a, Tia1, Tm9sf3, Tmem110, Tmem132b, Tmem136, Tmem159, Tmem167b, Tmem196, Tmem236, Tmem245, Tmem47, Tmem59, Tmem63b, Tnfrsf1b, Tnks, Tnpo2, Tnrc6a, Tnrc6b, Tnrc6c, Tor1b, Tp53inp1, Tpcn1, Tprgl1, Tprgl1l, Trabd2b, Trak2, Trnm33, Trpm3, Trpm6, Ttc9, Tyh3, Tub, Txk, Txlna, Txlng, Ube2a, Ube2d2, Ube2d3, Ubl3, Ubxn2b, Ucp3, Uhmk1, Unc13a, Usp12, Usp33, Usp37, Vamp3, Vangl1, Vapa, Vat1l, Vav2, Vgll3, Vgll4, Vps35, Vps37a, Vps37b, Vti1a, Wac, Wbp1l, Wdfy2, Wdfy3, Wdr44, Wee1, Wipf3, Wnk1, Wnk3, Wnt3, Wwp1, Xylt1, Yaf2, Yes1, Yipf5, Ythdc1, Ythdf2, Zbtb14, Zbtb39, Zbtb46, Zbtb47, Zdhhc7, Zer1, Zfand5, Zfand6, Zfyve26, Zfyve9, Zic5, Zmynd11, Znf217, Znf367, Znf445, Znf644, Znf654, Znf70, Znf710, Znf772, Znf827, Znf831, Znf3, Zpld1 and Zranb2.

Common target genes of miR-361-5p and miR-3613-3p (n=155)

Acap2, Adat2, Adcy2, Agps, Ajap1, Aldh1l2, Alg9, Ankfy1, Arhgap20, Asb11, At13, Atp6v0a2, Atpaf1, B4galt6, Bcor1l, Bdp1, C11orf44, C15orf61, C16orf87, Calcr1, Camk2d, Ccdc169-Sohlh2, Ccdc30, Ccdc58, Ccny, Cdh1, Cdk17, Cenpbd1, Cisd1, Cldn22, Cldn8, Cpox, Crebbp, Cstf1, Ctbs, Ctnnd1, Dctn6, Ddx52, Diaph2, Dpp10, Dr1, Dyrk3, Ehf, Elovl7, Entpd7, Epb4l, Ercc6, Exd2, Fam213a, Fgf7, Fnbp1, Gcom1, Gms2, Glpr1, Gpr155, Gpr22, Gpr63, Grip1, Gsto2, Gtdc1, Gtf2e1, Hmgb2, Hmgcr, Hsp90aa1, Ipo7, Isca2, Kansl1l, Kcmf1, Kcnj3, Kdelc2, Kiaa1549l, Kif5a, Kihl18, Kihl7, Kpnb1, Lpcat1, Lppr5, Luc7l, Lypd6, Map2, Map3k9, Met, Mrps23, Mxi1, Myh9, Neb1, Nfat5, Nfix, Otud4, P4ha2, Pabpc4l, Parp11, Pde4b, Pdk4, Perp, Pgm3, Pik3r1, Pkia, Polr2m, Polr3g, Psm1, Qsox1, Rap2a, Rassf9, Rcan2, Rchy1, Rhoa, Rnf8, Rqcd1, Rwd1, Samd12, Sc5d, Scaf8, Scai, Sdk1, Sestd1, Shoc2, Slc16a10, Slc6a5, Smc2, Smim14, Snap25, Snd1, Sohlh2, Spry1, Srekl1, St6gal2, St6galnac5, Stx7, Tfg, Tgfb2, Thap1, Timp4, Tmem56, Traf3, Trove2, Twist1, Uba6, Ube2h, Ube2k, Ubr5, Vapb, Vegfa, Vvde, Wdr12, Wnt7a, Wt1, Xkr7, Zbtb24, Zbtb38, Zbtb40, Zbtb8b, Zdhhc17, Zmym4 and Znf507.

Common target genes of miR-19a-3p and miR-361-5p (n=3)

Zfp2, Acadsb and Mtus1.

Common target genes of miR-361-5p and miR-499a-5p (n=1)

Rragb.

Common target genes of miR-150-5p and miR-361-5p (n=5)

Exo5, Rock1, Capn6, Gtd4 and Ghsr.

Common target genes of miR-150-5p and miR-3613-3p (n=189)

Acdb3, Actr1a, Actr3, Adam19, Adarb1, Aifm2, Akir1, Akt3, Angel1, Ankrd52, Arntl2, Atp8a2, Basp1, Brd1, Btdb9, C3orf72, Cacna1g, Calcr, Calu, Capzb, Cbl, Cbx8, Cc2d1b, Ccdc174, Ccdc73, Cent1, Celf3, Cep128, Cnnm2, Csnk1a1, Ctdsp2, Ctnnb1, Cxorf23, Cytip, Dcaf6, Dennd4a, Dgki, Drg1, Dst, Dyrk1a, Ebf3, Egr2, Eif4b, Elmsan1, Elovl3, Ensa, Entpd1, Ep300, Ephb2, Erp44, Etf1, Fahd2a, Fam117b, Fam134c, Fam49a, Fbln7, Fign, Foxd3, Fto, Gab1, Gabra4, Gan, Gata6, Glg1, Glis3, Gosr1, Gpam, Grhl2, Gsk3b, Gtf3c2, H1f0, Hsp90b1, Igf2bp1, Igfbp11, Irf2bp2, Jph2, Kcnb1, Kctd9, Kiaa0087, Letmd1, Lix11, Lrrc58, Map2k6, Map3k3, March6, Mbtid1, Metap1, Mga, Mlxip, Mmp14, Mpp6, Mtch2, Mtmr9, Muc21, Myb, Myo1c, Myocd, N4bp211, Ncs1, Ndc1, Negr1, Nfasc, Nfatc3, Nkx2-4, Nlgn3, Nova2, Nr1d2, Nr2f2, Onecut2, Onecut3, Pafah1b1, Pald1, Papd5, Pappa, Parl, Parva, Pax5, Pcp411, Pdha1, Peg10, Phb2, Pigg, Ptk3ap1, Pkhd1, Plxnb1, Prkca, Prps1, Psmid11, Ptgfr, Ptprb, Pura, Rab11a, Rab9a, Rad51, Rc3h1, Rcsd1, Repts2, Rnaseh2c, Rorb, Rp6-24a23.6, Rpp14, Rsb11, Rsf1, Scn3b, Sephs1, Sgms1, Skp1, Slc30a5, Smarcd1, Smu1, Soga3, Spred3, Stmn4, Stx3, Styxl1, Suw39h2, Szrd1, Tada1, Tango2, Tbc1d20, Tcf23, Tmcc1, Tmem107, Tmem134, Tmem164, Tmem41a, Tmem55a, Tpm3, Trim66, Trmt11, Trps1, Tspyl5, Uap1, Ube2r2, Ubfd1, Ubr1, Usp49, Ust, Wdr5b, Wnt2b, Wtap, Zbtb7a, Zbtb7c, Zeb1, Zmat2, Znf189, Znf226, Znf317 and Znf574.

Common target genes of miR-19a-3p and miR-150-5p (n=8)

Bsn, Chd2, Cisd3, Itsn1, Mbd6, Ppp2r4, Rsph10b and Sema6d.

Target genes of miR-19a-3p (n=291)

Actn1, Adamts13, Adss, Al020996.1, Alg2, Alpk2, Ankib1, Ankrd34a, Ano1, Anxa7, Aqpep, Arap2, Arc, Arhgap1, Arrdc3, Arrdc4, Asic4, Asna1, Atg4d, Atp10a, Atp11a, Atp1a2, B4galt2, Bace1, Bcl3, Bicc1, Bod1l2, Bzap1, C11orf96, C16orf70, C22orf15, C22orf31, C2cd5, C6orf223, C8orf4, Cab39l, Cadm4, Card10, Cbx7, Cc2d1a, Ccdc88a, Ccm2, Ccna2, Cep55, Cgn, Chmp4b, Chmb2, Clcn2, Cltc, Cntfr, Col1a2, Cpped1, Csnk2a1, Cspp1, Dennd1a, Dhrs3, Dip2a, Dirc2, Dlx1, Dlx3, Dock10, Dock3, Dpysl5, Dusp7, Dut, Edaradd, Efnb2, Egflam, Epb4115, Ephb3, Ephx4, Eps15, Evi5l, Eya1, Fam102a, Fam177b, Fam69a, Fam73b, Fam83g, Fastk, Fbxo10, Fbxo40, Fbxo8, Fgf6, Fibin, Flnc, Foxd4, Foxd4l1, Foxd4l2, Foxf2, Frmpd2, Furin, Gatsl3, Gga1, Glis2, Golga6a, Golga6b, Golga6c, Golga6d, Golga8a, Golga8b, Gpcpd1, Gpr137b, Grik6, Grm4, Gsc, Gskip, Hapln4, Hbp1, Hdac7, Hdlbp, Hoxd4, Hprt1, Hs3st5, Il1rap, Ildr1, Impdh1, Inhb, Irx4, Itfg3, Ivns1abp, Jakmip1, Jazf1, Kcna4, Kcnc4, Kcncq5, Kiaa2026, Kif13b, Klhl17, Lemd3, Lif, Limd2, Llg2, Lonrf1, Lng1, Magi2, Mbnl2, Med13l, Med26, Mef2a, Mical3, Mink1, Mon2, Myl1p, Napyb, Nbeal2, Ncf1, Neurod4, Nme7, Npepl1, Nr1h3, Nrbf2, Nrbp1, Nrd1, Nudt13, Ocr1, Pak6, Pcdh12, Pcdha1, Pcdha10, Pcdha11, Pcdha12, Pcdha13, Pcdha2, Pcdha3, Pcdha4, Pcdha5, Pcdha6, Pcdha7, Pcdha8, Pcdha9, Pcdhac1, Pcdhac2, Pde7b, Phf20, P4ka, Pianp, Ptx1, Pla2g10, Plcb1, Plcl2, Postn, Ppp6r1, Prkx, Prr5l, Psap, Ptk2b, Pxdn, Rab13, Rab1a, Rab34, Rabgap1, Racgap1, Raf1, Rapgef4, Rapgef1, Rdh12, Rfx1, Rgl1, Rgp1, Rgs21, Rhebl1, Rhob, Rnf130, Rnf167, Rnf19a, Rnf216, Robo2, Rtn1, Rtn4rl1, Runx3, Scn1b, Sec24d, Sel1l3, Sema4c, Sin3b, Swa1, Slc12a7, Slc25a44, Slc25a6, Slc27a1, Slc2a1, Slc37a1, Slc6a8, Slc9a1, Slit1, Smap, Smoc1, Smoc2, Smurf1, Snph, Snx17, Soes1, Soga2, Sox12, Sphk2, Spry3, Sptssb, Spty2d1, Sirk33, Stk38, Stk39, Stx12, Stx18, Sun1, Sv2a, Syn1, Taf4, Tgm2, Tgm3, Tiparp, Tln2, Tmem151b, Tmem25, Tnfrsf3, Tnfrsf12a, Tnrip1, Tom1l2, Trim23, Trpc3, Tshz3, Tspan18, Ubap2l, Uhrf2, Unc93b1, Usp6, Usp8, Vps4b, Vsig10l, Vstm2b, Wbp2, Wbp4, Wdr1, Wdr20, Wdr26, Wdr45b, Wnt1, Wnt10a, Wnt7b, Wrmp1, Zbtb11, Zbtb7b, Zdhhc18, Zdhhc23, Znf469, Znf521, Znf609, Znf711, Znf800 and Znf804a.

Target genes of miR-361-5p (n=48)

Ac010327.2, Bdnf, Bend6, Brsk2, Btf3, C10orf128, Calm3, Ccdc178, Cd177, Cish, Cks1b, Cngb3, Cpsf7, Erc2, Erg, Fadd, Foxm1, Fsd2, Golga4, Gphn, Gucy1b3, Helt, Il10, Il13ra1, Kcnn1, Lad1, Lurap1l, Nfe2, Nr4a2, Ogn, Panx2, Rab3gap1, Rad23a, Rambp17, Rnf4, Rpp25, Sertm1, Slc25a21-As1, Slc7a6os, Tfap2b, Tgfb1, Tktl2, Tmem184a, Trm44, Txndc2, Vegfb, Vezf1 and Wasf2.

Target genes of miR-3613-3p (n=6988)

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Target genes of miR-126-3p (n=8)

Plxn2, Rgs3, Eglf7, Bak1, Pex5, Traf7, Ptpn9 and Samd14.

Target genes of miR-499a-5p (n=53)

Abat, Adc, Adprh, Ahcyl1, Anks1b, Ap3s1, Aurka, C2cd2, Camta2, Cdca7, Cdkn1a, Chsy3, Cntn5, Colq, Comt, Dcaf12, Dnajb2, Dnm1l, Dusp11, Edar, Elavl2, Fam168b, Fubp3, Gata4, Gyr1, H2afz, Hnrnpa2b1, Hnrnpc, Hoxd10, Kif3c, Lims1, Mrps35, Msh6, Myh10, Nup88, Osbpl1a, P4ha1, Pcyox1, Polb, Pqlc3, Rab5c, Raly1, Ranbp9, Rbm12, Rnf220, Scn4a, Scrn1, Shusab6, Slc45a4, Spns2, Srgap2, Srsf4 and Tspan3.

Human Plasma miRNA Assay Set 1

	1	2	3	4	5	6	7	8	9	10	11	12
A	miR-495-3p	miR-3141	miR-532-5p	miR-1231	miR-223-5p	miR-4291	miR-3651	miR-372-3p	miR-19b-1-5p	miR-183-3p	miR-628-3p	miR-7-2-3p
B	miR-26b-3p	miR-146a-5p	miR-21-3p	miR-338-3p	miR-3200-5p	miR-769-5p	miR-4651	miR-29c-5p	miR-1180-3p	miR-324-3p	miR-502-3p	miR-130b-5p
C	miR-624-5p	miR-139-3p	miR-1539	miR-130a-3p	miR-339-5p	miR-132-3p	miR-22-5p	miR-191-5p	let-7b-5p	miR-489-3p	miR-378a-3p	miR-107
D	miR-151a-3p	miR-877-5p	miR-100-5p	miR-18a-3p	miR-134-5p	miR-181c-5p	miR-1537-3p	miR-139-5p	miR-15a-3p	miR-340-5p	miR-3923	miR-335-3p
E	miR-98-5p	miR-20a-5p	miR-3191-3p	miR-766-3p	miR-140-5p	miR-328-3p	miR-133a-3p	miR-27a-3p	miR-185-5p	miR-4258	miR-370-3p	miR-23b-3p
F	miR-331-3p	miR-487b-3p	miR-3176	miR-181a-5p	miR-378e	miR-671-3p	miR-450a-5p	miR-342-3p	miR-4302	miR-27b-3p	miR-424-5p	miR-374b-5p
G	miR-181d-5p	miR-330-3p	miR-4289	miR-744-5p	miR-16-5p	miR-34c-3p	miR-106b-5p	miR-378a-5p	miR-320e	miR-4274	miR-340-3p	miR-126-3p
H	miR-193b-3p	miR-576-5p	miR-10b-5p	miR-1277-3p	miR-188-5p	miR-30a-3p	miR-93-5p	miR-425-5p	miR-92a-3p	miR-296-5p	miR-551b-3p	miR-2355-3p

Human Plasma miRNA Assay Set 2

	1	2	3	4	5	6	7	8	9	10	11	12
A	let-7c-5p	miR-184	miR-152-3p	miR-3911	miR-1909-5p	miR-205-5p	miR-1587	miR-1260a	let-7a-3p	miR-1290	miR-92b-3p	miR-144-5p
B	miR-16-2-3p	miR-3200-3p	let-7g-5p	miR-2110	miR-196b-5p	miR-29c-3p	miR-127-3p	miR-181b-5p	miR-133b	miR-3135b	miR-3655	miR-324-5p
C	miR-4689	miR-4516	miR-377-3p	miR-4323	miR-501-5p	miR-29a-3p	miR-596	miR-103a-2-5p	miR-103a-3p	miR-4306	miR-30e-3p	miR-382-5p
D	miR-196a-5p	miR-148b-3p	miR-4422	miR-15a-5p	miR-421	miR-337-5p	miR-7-5p	miR-551a	miR-339-3p	miR-30d-5p	let-7e-5p	miR-345-5p
E	miR-144-3p	miR-195-5p	miR-4454	miR-99b-5p	let-7d-3p	miR-652-3p	miR-379-5p	miR-664a-3p	miR-519b-5p	miR-141-3p	let-7f-2-3p	miR-378h
F	miR-30c-5p	miR-32-5p	miR-192-5p	miR-1287-5p	miR-320b	miR-374a-5p	miR-3613-3p	miR-3689a-5p	miR-183-5p	miR-15b-5p	miR-373-5p	miR-375
G	miR-99a-5p	miR-335-5p	miR-146b-5p	miR-2355-5p	miR-490-3p	miR-136-5p	miR-196b-3p	miR-145-3p	miR-874-3p	miR-200a-3p	miR-1260b	miR-326
H	miR-425-3p	miR-590-3p	miR-96-5p	miR-486-5p	miR-615-5p	miR-378i	miR-154-5p	miR-362-3p	miR-222-3p	miR-365a-3p	miR-2467-3p	miR-200b-3p

Human Plasma miRNA Assay Set 3												
	1	2	3	4	5	6	7	8	9	10	11	12
A	miR-3610	miR-1286	miR-18b-5p	miR-34a-5p	miR-660-5p	miR-151b	miR-4687-5p	miR-2276-3p	miR-150-5p	miR-329-3p	miR-378b	miR-138-1-3p
B	miR-373-3p	miR-1	miR-422a	miR-631	miR-627-5p	miR-451a	miR-194-5p	miR-30b-5p	miR-125a-5p	miR-503-5p	miR-590-5p	miR-342-5p
C	miR-484	miR-3653	miR-224-5p	miR-4732-3p	miR-125b-5p	let-7i-5p	miR-3159	miR-548c-5p	miR-548e-3p	miR-186-5p	miR-1203	miR-101-3p
D	miR-485-5p	miR-532-3p	miR-199a-3p	miR-4301	miR-412-3p	miR-136-3p	miR-1301-3p	miR-598-3p	miR-28-3p	miR-4267	miR-124-3p	miR-486-3p
E	miR-122-5p	miR-542-5p	miR-140-3p	miR-24-3p	miR-215-5p	miR-130b-3p	let-7a-5p	miR-208a-3p	miR-1247-5p	miR-485-3p	miR-148a-3p	miR-409-3p
F	miR-574-3p	miR-191-3p	miR-7-1-3p	miR-675-3p	miR-23b-5p	let-7f-5p	miR-301b	miR-885-5p	miR-3622a-5p	miR-629-5p	miR-31-5p	miR-23a-3p
G	miR-223-3p	miR-25-3p	miR-19a-3p	miR-151a-5p	miR-625-3p	miR-30a-5p	miR-4538	miR-19b-3p	miR-30e-5p	miR-1307-3p	miR-204-5p	miR-200c-3p
H	miR-18a-5p	miR-487a-3p	miR-1233-3p	miR-637	miR-942-5p	miR-197-3p	cel-miR-39-3p	SNORD61	SNORD72	SNORD96A	miRTC	PPC
Human Plasma miRNA Assay Set 4												
	1	2	3	4	5	6	7	8	9	10	11	12
A	miR-199b-5p	miR-497-5p	miR-214-3p	miR-4732-5p	miR-3120-3p	miR-423-5p	miR-93-3p	miR-33a-5p	miR-21-5p	miR-550a-5p	miR-28-5p	miR-193a-5p
B	miR-3646	miR-3907	miR-338-5p	miR-143-3p	let-7i-3p	miR-29b-3p	miR-605-5p	miR-199a-5p	miR-376c-3p	miR-361-3p	miR-1207-5p	miR-1193
C	miR-1281	miR-423-3p	miR-877-3p	miR-22-3p	miR-203a	miR-454-3p	let-7f-1-3p	miR-1913	miR-4770	miR-10a-5p	miR-1280	miR-1910-5p
D	miR-3183	miR-542-3p	miR-337-3p	miR-381-3p	miR-505-3p	miR-363-3p	let-7g-3p	miR-221-3p	miR-629-3p	miR-3131	miR-155-5p	miR-26a-5p
E	miR-424-3p	miR-433-3p	miR-1976	let-7d-5p	miR-548d-5p	miR-1183	miR-4505	miR-211-5p	miR-378g	miR-9-5p	miR-5095	miR-361-5p
F	miR-4524a-3p	miR-17-5p	miR-720	miR-128-3p	miR-181c-3p	miR-1225-3p	miR-26b-5p	miR-4286	miR-3185	miR-4296	miR-483-5p	miR-301a-3p
G	miR-219a-1-3p	miR-210-3p	miR-17-3p	miR-320a	miR-15b-3p	miR-206	miR-1237-3p	miR-142-3p	miR-499a-5p	miR-500a-5p	miR-20b-5p	miR-190a-5p
H	miR-142-5p	miR-145-5p	miR-369-3p	miR-202-3p	miR-4688	miR-126-5p	cel-miR-39-3p	SNORD68	SNORD95	RNU6-2	miRTC	PPC