

Supplemental Table 10: Results of differential miRNA (DEmiR) and differential target gene (DETG) testing between HM and each other EAC subtype. From left to right, columns are the DETG ID, mean HM DETG expression, mean non-HM DETG expression from the comparison, the DEmiR ID, the mean DEmiR expression difference (mean difference, HM minus non-HM), and the subtype comparison (HM vs. IM, LM, or MM).

DETG	HM.expr.target	NonHM.expr.target	DEmiR	miR.dif	targetgene.symbol	test
MARK1	-3.167	-1.781	hsa-miR-486-5p	1.209	MARK1	HM-vs-IM
FRAS1	0.073	1.294	hsa-miR-3136-5p	1.077	FRAS1	HM-vs-IM
LRP4	-0.350	-1.455	hsa-miR-2355-5p	-1.331	LRP4	HM-vs-IM
NGEF	0.476	-0.664	miR-103a-2-5p	-1.421	NGEF	HM-vs-LM
SMPD3	-0.226	-1.273	miR-103a-2-5p	-1.421	SMPD3	HM-vs-LM
ADAM19	-0.383	0.626	miR-182-5p	1.641	ADAM19	HM-vs-LM
ADAMTS18	-5.274	-3.889	miR-182-5p	1.641	ADAMTS18	HM-vs-LM
AGPAT4	-0.728	0.358	miR-182-5p	1.641	AGPAT4	HM-vs-LM
AS3MT	-2.958	-0.866	miR-182-5p	1.641	AS3MT	HM-vs-LM
B4GALNT1	-1.048	0.502	miR-182-5p	1.641	B4GALNT1	HM-vs-LM
C20orf194	-2.918	-1.802	miR-182-5p	1.641	C20orf194	HM-vs-LM
CACNA2D2	-4.575	-3.137	miR-182-5p	1.641	CACNA2D2	HM-vs-LM
CADM1	-2.388	-0.264	miR-182-5p	1.641	CADM1	HM-vs-LM
CHIC1	-1.731	-0.667	miR-182-5p	1.641	CHIC1	HM-vs-LM

CHST10	-2.521	-1.360	miR-182-5p	1.641	CHST10	HM-vs-LM
CHST11	-1.093	-0.028	miR-182-5p	1.641	CHST11	HM-vs-LM
DYNC1I1	-3.052	-1.341	miR-182-5p	1.641	DYNC1I1	HM-vs-LM
EPDR1	-1.718	0.737	miR-182-5p	1.641	EPDR1	HM-vs-LM
FAM110B	-3.025	-1.466	miR-182-5p	1.641	FAM110B	HM-vs-LM
FBXO27	-3.980	-1.829	miR-182-5p	1.641	FBXO27	HM-vs-LM
FCN3	-0.868	0.234	miR-182-5p	1.641	FCN3	HM-vs-LM
GRID1	-0.834	0.250	miR-182-5p	1.641	GRID1	HM-vs-LM
HAS2	-1.026	0.104	miR-182-5p	1.641	HAS2	HM-vs-LM
HOXA1	0.454	1.747	miR-182-5p	1.641	HOXA1	HM-vs-LM
KHDRBS3	-2.292	-0.663	miR-182-5p	1.641	KHDRBS3	HM-vs-LM
KIAA1324L	-2.210	0.461	miR-182-5p	1.641	KIAA1324L	HM-vs-LM
KLF15	-6.132	-4.258	miR-182-5p	1.641	KLF15	HM-vs-LM
KLF7	-1.841	-0.692	miR-182-5p	1.641	KLF7	HM-vs-LM
LRP3	-2.706	-0.617	miR-182-5p	1.641	LRP3	HM-vs-LM
MAF	-1.826	-0.760	miR-182-5p	1.641	MAF	HM-vs-LM
MAGEL2	-2.599	-1.250	miR-182-5p	1.641	MAGEL2	HM-vs-LM
MAP9	-3.631	-1.584	miR-182-5p	1.641	MAP9	HM-vs-LM

MFAP3L	-1.462	-0.131	miR-182-5p	1.641	MFAP3L	HM-vs-LM
MPP1	-0.963	0.245	miR-182-5p	1.641	MPP1	HM-vs-LM
NFASC	-3.251	-2.123	miR-182-5p	1.641	NFASC	HM-vs-LM
NRCAM	-0.760	0.714	miR-182-5p	1.641	NRCAM	HM-vs-LM
PDPN	-0.833	0.184	miR-182-5p	1.641	PDPN	HM-vs-LM
PEG10	-2.388	0.175	miR-182-5p	1.641	PEG10	HM-vs-LM
PPP1R9A	-4.634	-1.292	miR-182-5p	1.641	PPP1R9A	HM-vs-LM
PRAF2	-0.704	0.487	miR-182-5p	1.641	PRAF2	HM-vs-LM
PRKD1	-2.651	-1.628	miR-182-5p	1.641	PRKD1	HM-vs-LM
PTGER3	-7.008	-5.596	miR-182-5p	1.641	PTGER3	HM-vs-LM
RBP7	-3.043	-1.905	miR-182-5p	1.641	RBP7	HM-vs-LM
RDX	-2.001	-0.601	miR-182-5p	1.641	RDX	HM-vs-LM
RNLS	-5.078	-3.565	miR-182-5p	1.641	RNLS	HM-vs-LM
SCN9A	-3.338	-1.852	miR-182-5p	1.641	SCN9A	HM-vs-LM
SDC2	-1.911	-0.786	miR-182-5p	1.641	SDC2	HM-vs-LM
SLC1A2	-6.587	-5.358	miR-182-5p	1.641	SLC1A2	HM-vs-LM
SLC2A3	-0.267	0.958	miR-182-5p	1.641	SLC2A3	HM-vs-LM
SOX5	-3.055	-1.929	miR-182-5p	1.641	SOX5	HM-vs-LM

SOX6	-1.243	-0.201	miR-182-5p	1.641	SOX6	HM-vs-LM
ST6GALNAC3	-1.321	-0.288	miR-182-5p	1.641	ST6GALNAC3	HM-vs-LM
SULT1C4	-1.513	0.096	miR-182-5p	1.641	SULT1C4	HM-vs-LM
TCEAL7	-2.696	-1.556	miR-182-5p	1.641	TCEAL7	HM-vs-LM
TMEM150C	-1.777	-0.702	miR-182-5p	1.641	TMEM150C	HM-vs-LM
TMEM170B	-1.677	-0.546	miR-182-5p	1.641	TMEM170B	HM-vs-LM
TUSC1	-2.289	-0.653	miR-182-5p	1.641	TUSC1	HM-vs-LM
TWIST1	0.008	1.130	miR-182-5p	1.641	TWIST1	HM-vs-LM
VGLL3	-2.205	-0.739	miR-182-5p	1.641	VGLL3	HM-vs-LM
ZFP30	-2.748	-0.951	miR-182-5p	1.641	ZFP30	HM-vs-LM
ZNF280B	-1.443	0.837	miR-182-5p	1.641	ZNF280B	HM-vs-LM
ADRA2A	2.619	0.743	miR-130a-5p	-1.032	ADRA2A	HM-vs-LM
MET	1.712	0.638	miR-130a-5p	-1.032	MET	HM-vs-LM
PNMA2	1.062	-0.156	miR-130a-5p	-1.032	PNMA2	HM-vs-LM
RAB27B	-1.126	-2.592	miR-130a-5p	-1.032	RAB27B	HM-vs-LM
CHST4	1.232	-0.837	miR-134-5p	-1.256	CHST4	HM-vs-LM
EGFR	-0.310	-1.597	miR-134-5p	-1.256	EGFR	HM-vs-LM
MLPH	-0.356	-1.618	miR-134-5p	-1.256	MLPH	HM-vs-LM

SLC5A1	3.284	1.818	miR-134-5p	-1.256	SLC5A1	HM-vs-LM
BASP1	-1.164	0.007	miR-200c-3p	1.145	BASP1	HM-vs-LM
DCBLD2	-2.569	-1.131	miR-200c-3p	1.145	DCBLD2	HM-vs-LM
DMD	-3.683	-2.498	miR-200c-3p	1.145	DMD	HM-vs-LM
DTNA	-4.243	-2.754	miR-200c-3p	1.145	DTNA	HM-vs-LM
DZIP1	-2.724	-1.285	miR-200c-3p	1.145	DZIP1	HM-vs-LM
FGD1	-1.556	-0.529	miR-200c-3p	1.145	FGD1	HM-vs-LM
GLIS2	-0.959	0.272	miR-200c-3p	1.145	GLIS2	HM-vs-LM
MAP91	-3.631	-1.584	miR-200c-3p	1.145	MAP9	HM-vs-LM
MOCS1	-2.428	-1.132	miR-200c-3p	1.145	MOCS1	HM-vs-LM
NDN	-2.763	-1.314	miR-200c-3p	1.145	NDN	HM-vs-LM
NFASC1	-3.251	-2.123	miR-200c-3p	1.145	NFASC	HM-vs-LM
NLGN4X	-2.418	-0.525	miR-200c-3p	1.145	NLGN4X	HM-vs-LM
PCDH19	-4.037	-2.689	miR-200c-3p	1.145	PCDH19	HM-vs-LM
PLXNA4	-4.233	-2.734	miR-200c-3p	1.145	PLXNA4	HM-vs-LM
PPM1E	-2.598	-1.423	miR-200c-3p	1.145	PPM1E	HM-vs-LM
PTPN13	-3.635	-1.593	miR-200c-3p	1.145	PTPN13	HM-vs-LM
SDC21	-1.911	-0.786	miR-200c-3p	1.145	SDC2	HM-vs-LM

SDK2	-2.592	-0.388	miR-200c-3p	1.145	SDK2	HM-vs-LM
SGCE	-1.933	-0.244	miR-200c-3p	1.145	SGCE	HM-vs-LM
SLC1A21	-6.587	-5.358	miR-200c-3p	1.145	SLC1A2	HM-vs-LM
SOX61	-1.243	-0.201	miR-200c-3p	1.145	SOX6	HM-vs-LM
SPG20	-3.241	-2.113	miR-200c-3p	1.145	SPG20	HM-vs-LM
SYT1	-2.008	0.015	miR-200c-3p	1.145	SYT1	HM-vs-LM
TMEM170B1	-1.677	-0.546	miR-200c-3p	1.145	TMEM170B	HM-vs-LM
WASF3	-4.502	-3.161	miR-200c-3p	1.145	WASF3	HM-vs-LM
ZBTB10	-2.217	-0.131	miR-200c-3p	1.145	ZBTB10	HM-vs-LM
DNAH5	-0.396	-1.795	miR-34c-3p	-1.006	DNAH5	HM-vs-LM
RASEF	-0.227	-1.719	miR-34c-3p	-1.006	RASEF	HM-vs-LM
AGR2	0.863	-0.773	miR-99b-3p	-1.273	AGR2	HM-vs-LM
HOXA11	7.277	5.571	miR-374a-5p	-1.029	HOXA11	HM-vs-LM
MET1	1.712	0.638	miR-374a-5p	-1.029	MET	HM-vs-LM
PNMA21	1.062	-0.156	miR-379-5p	-1.717	PNMA2	HM-vs-LM
F2RL1	0.760	-0.255	miR-382-5p	-1.151	F2RL1	HM-vs-LM
XK	-0.709	-2.051	miR-382-5p	-1.151	XK	HM-vs-LM
KCNN4	1.382	0.301	miR-431-3p	-1.261	KCNN4	HM-vs-LM

ADRA2A1	2.619	0.743	miR-452-5p	-1.398	ADRA2A	HM-vs-LM
SDCBP2	0.548	-0.643	miR-452-5p	-1.398	SDCBP2	HM-vs-LM
ZBTB7C	-1.695	-3.278	miR-452-5p	-1.398	ZBTB7C	HM-vs-LM
BCAS1	-1.097	-2.670	miR-409-5p	-1.018	BCAS1	HM-vs-LM
KCNK1	0.762	-0.354	miR-409-5p	-1.018	KCNK1	HM-vs-LM
XK1	-0.709	-2.051	miR-409-5p	-1.018	XK	HM-vs-LM
BARX2	-1.103	-3.048	miR-483-5p	-1.126	BARX2	HM-vs-LM
ADRA2A2	2.619	0.743	miR-493-5p	-1.044	ADRA2A	HM-vs-LM
BHLHE41	1.318	0.264	miR-493-5p	-1.044	BHLHE41	HM-vs-LM
IRX2	-2.162	-4.159	miR-493-5p	-1.044	IRX2	HM-vs-LM
MUC13	5.063	3.844	miR-493-5p	-1.044	MUC13	HM-vs-LM
RAB27B1	-1.126	-2.592	miR-493-5p	-1.044	RAB27B	HM-vs-LM
SLC5A11	3.284	1.818	miR-493-5p	-1.044	SLC5A1	HM-vs-LM
ZIC2	4.633	1.073	miR-493-5p	-1.044	ZIC2	HM-vs-LM
CCL28	1.146	-0.420	miR-450b-5p	-1.014	CCL28	HM-vs-LM
IRX21	-2.162	-4.159	miR-450b-5p	-1.014	IRX2	HM-vs-LM
PTPRR	1.262	0.056	miR-450b-5p	-1.014	PTPRR	HM-vs-LM
SIM2	0.083	-1.093	miR-450b-5p	-1.014	SIM2	HM-vs-LM

ADORA2B	1.388	0.289	miR-374b-5p	-1.288	ADORA2B	HM-vs-LM
HOXA111	7.277	5.571	miR-374b-5p	-1.288	HOXA11	HM-vs-LM
FUT3	1.164	-0.465	miR-2355-5p	-1.947	FUT3	HM-vs-LM
FUT6	0.019	-1.396	miR-2355-5p	-1.947	FUT6	HM-vs-LM
GJB4	2.654	0.930	miR-2355-5p	-1.947	GJB4	HM-vs-LM
JUP	1.057	0.053	miR-2355-5p	-1.947	JUP	HM-vs-LM
NR1I2	3.318	1.256	miR-2355-5p	-1.947	NR1I2	HM-vs-LM
PPP1R1B	5.806	3.122	miR-2355-5p	-1.947	PPP1R1B	HM-vs-LM
ANO1	0.941	-0.433	miR-3922-3p	-1.349	ANO1	HM-vs-LM
BHLHE411	1.318	0.264	miR-3922-3p	-1.349	BHLHE41	HM-vs-LM
FAM83E	0.873	-0.473	miR-3922-3p	-1.349	FAM83E	HM-vs-LM
MST1R	0.934	-0.486	miR-3922-3p	-1.349	MST1R	HM-vs-LM
ZBTB7C1	-1.695	-3.278	miR-3922-3p	-1.349	ZBTB7C	HM-vs-LM
ABCC3	1.240	-0.131	miR-10b-5p	-1.887	ABCC3	HM-vs-MM
CCDC146	-0.390	-1.467	miR-10b-5p	-1.887	CCDC146	HM-vs-MM
PARP15	0.181	-1.115	miR-224-5p	-1.547	PARP15	HM-vs-MM
ANTXR2	-0.696	-1.702	miR-130a-5p	-1.161	ANTXR2	HM-vs-MM
FRMD5	0.818	-0.304	miR-130a-5p	-1.161	FRMD5	HM-vs-MM

MAP3K13	1.004	-0.192	miR-130a-5p	-1.161	MAP3K13	HM-vs-MM
MET2	1.712	0.257	miR-130a-5p	-1.161	MET	HM-vs-MM
PNMA22	1.062	-0.370	miR-130a-5p	-1.161	PNMA2	HM-vs-MM
PPARG	0.893	-0.206	miR-130a-5p	-1.161	PPARG	HM-vs-MM
EGFR2	-0.310	-1.361	miR-134-5p	-1.105	EGFR	HM-vs-MM
NPNT	0.369	-0.839	miR-154-3p	-1.353	NPNT	HM-vs-MM
RARRES3	1.084	-0.253	miR-154-3p	-1.353	RARRES3	HM-vs-MM
ATP8A1	-1.434	-2.931	miR-200a-3p	-1.087	ATP8A1	HM-vs-MM
CCND2	0.093	-1.421	miR-200a-3p	-1.087	CCND2	HM-vs-MM
EGFR1	-0.310	-1.361	miR-200a-3p	-1.087	EGFR	HM-vs-MM
ANTXR21	-0.696	-1.702	miR-369-3p	-1.289	ANTXR2	HM-vs-MM
C15orf48	1.460	0.417	miR-376a-3p	-1.715	C15orf48	HM-vs-MM
GIMAP2	0.992	-0.158	miR-376a-3p	-1.715	GIMAP2	HM-vs-MM
PARK2	-3.133	-4.585	miR-379-5p	-1.607	PARK2	HM-vs-MM
PNMA211	1.062	-0.370	miR-379-5p	-1.607	PNMA2	HM-vs-MM
CCDC1461	-0.390	-1.467	miR-340-5p	-1.097	CCDC146	HM-vs-MM
KCNK11	0.762	-0.281	miR-340-5p	-1.097	KCNK1	HM-vs-MM
NPNT1	0.369	-0.839	miR-340-5p	-1.097	NPNT	HM-vs-MM

IRF8	1.431	0.173	miR-452-5p	-1.638	IRF8	HM-vs-MM
TNFSF13B	0.336	-0.687	miR-452-5p	-1.638	TNFSF13B	HM-vs-MM
CELSR3	3.617	2.098	miR-500a-3p	-1.108	CELSR3	HM-vs-MM
CACNA1D	1.037	2.557	miR-625-5p	1.369	CACNA1D	HM-vs-MM
CACNA2D21	-4.575	-2.719	miR-625-5p	1.369	CACNA2D2	HM-vs-MM
CADM11	-2.388	-0.834	miR-625-5p	1.369	CADM1	HM-vs-MM
CNIH2	-1.584	-0.194	miR-625-5p	1.369	CNIH2	HM-vs-MM
COL8A2	-2.998	-1.891	miR-625-5p	1.369	COL8A2	HM-vs-MM
DLGAP3	-1.059	1.004	miR-625-5p	1.369	DLGAP3	HM-vs-MM
DNALI1	-2.905	-1.140	miR-625-5p	1.369	DNALI1	HM-vs-MM
DNMT3B	1.326	2.555	miR-625-5p	1.369	DNMT3B	HM-vs-MM
IGF2BP1	2.026	5.910	miR-625-5p	1.369	IGF2BP1	HM-vs-MM
KCNC3	-0.065	1.446	miR-625-5p	1.369	KCNC3	HM-vs-MM
MPZ	-3.891	-2.845	miR-625-5p	1.369	MPZ	HM-vs-MM
MYEF2	-4.850	-1.758	miR-625-5p	1.369	MYEF2	HM-vs-MM
MYH10	-1.943	-0.631	miR-625-5p	1.369	MYH10	HM-vs-MM
PAIP2B	-5.422	-3.006	miR-625-5p	1.369	PAIP2B	HM-vs-MM
PCDH191	-4.037	-2.124	miR-625-5p	1.369	PCDH19	HM-vs-MM

PCDHGA4	-2.549	-1.030	miR-625-5p	1.369	PCDHGA4	HM-vs-MM
PCDHGA5	-2.621	-1.505	miR-625-5p	1.369	PCDHGA5	HM-vs-MM
PCDHGA7	-2.205	-1.088	miR-625-5p	1.369	PCDHGA7	HM-vs-MM
PCDHGA8	-0.310	0.802	miR-625-5p	1.369	PCDHGA8	HM-vs-MM
PCDHGB1	-1.378	1.334	miR-625-5p	1.369	PCDHGB1	HM-vs-MM
PCDHGB4	-2.395	-0.903	miR-625-5p	1.369	PCDHGB4	HM-vs-MM
PCDHGC3	-2.013	-0.584	miR-625-5p	1.369	PCDHGC3	HM-vs-MM
PLXNB3	-2.063	-0.078	miR-625-5p	1.369	PLXNB3	HM-vs-MM
PPP2R2C	-5.105	-0.969	miR-625-5p	1.369	PPP2R2C	HM-vs-MM
PTPRS	-3.441	-2.085	miR-625-5p	1.369	PTPRS	HM-vs-MM
RUNX3	0.009	1.601	miR-625-5p	1.369	RUNX3	HM-vs-MM
S100A1	-2.735	-1.446	miR-625-5p	1.369	S100A1	HM-vs-MM
SHROOM2	-2.231	0.327	miR-625-5p	1.369	SHROOM2	HM-vs-MM
SYNGR3	-1.394	-0.071	miR-625-5p	1.369	SYNGR3	HM-vs-MM
TCEA2	-2.290	-0.925	miR-625-5p	1.369	TCEA2	HM-vs-MM
XKR6	-1.632	0.429	miR-625-5p	1.369	XKR6	HM-vs-MM
ZNF605	-1.629	-0.027	miR-625-5p	1.369	ZNF605	HM-vs-MM
ZNF704	-2.158	-0.922	miR-625-5p	1.369	ZNF704	HM-vs-MM

GPA33	5.995	3.433	miR-411-5p	-1.269	GPA33	HM-vs-MM
CCDC1462	-0.390	-1.467	miR-654-5p	-1.426	CCDC146	HM-vs-MM
PKP2	1.412	0.365	miR-654-5p	-1.426	PKP2	HM-vs-MM
PPP1R1B2	5.806	3.491	miR-654-5p	-1.426	PPP1R1B	HM-vs-MM
TMEM229B	1.113	-0.366	miR-654-5p	-1.426	TMEM229B	HM-vs-MM
UBXN10	0.336	-1.072	miR-654-5p	-1.426	UBXN10	HM-vs-MM
GSDMB	2.312	0.655	miR-542-3p	-1.091	GSDMB	HM-vs-MM
PARP151	0.181	-1.115	miR-542-3p	-1.091	PARP15	HM-vs-MM
MAP3K131	1.004	-0.192	miR-1254	-1.360	MAP3K13	HM-vs-MM
PPP1R1B1	5.806	3.491	miR-2355-5p	-1.727	PPP1R1B	HM-vs-MM
FAM81A	2.743	1.543	miR-2355-3p	-1.476	FAM81A	HM-vs-MM
SLC16A2	0.065	-1.164	miR-3679-5p	-1.388	SLC16A2	HM-vs-MM
BHLHE412	1.318	0.163	miR-3922-3p	-1.276	BHLHE41	HM-vs-MM
TMEM139	1.702	-0.021	miR-3922-3p	-1.276	TMEM139	HM-vs-MM