

Upregulated MicroRNA				Downregulated MicroRNA			
MicroRNA	All RTT	T158M	R255X	MicroRNA	All RTT	T158M	R255X
hsa-miR-29b-3p	238.850*	396.417*	120.675*	hsa-miR-4516	-6.334*	-7.317*	-5.598 ^{ns}
hsa-miR-451a	113.891*	143.490*	91.693 ^{ns}	hsa-miR-942-5p	-6.156*	-5.783*	-6.435*
hsa-miR-125b-5p	103.484*	144.227*	72.928*	hsa-miR-877-5p	-5.299*	-5.977*	-4.790*
hsa-miR-7-5p	78.299*	101.873*	60.618*	hsa-miR-563	-5.110*	-4.193 ^{ns}	-5.798*
hsa-let-7c-5p	60.730*	78.540*	47.373*	hsa-miR-1281	-4.883*	-3.930*	-5.598*
hsa-miR-218-5p	51.266*	73.640*	34.485*	hsa-miR-1306-3p	-4.829*	-6.230*	-3.778 ^{ns}
hsa-miR-29a-3p	43.056*	56.840*	32.718*	hsa-miR-1268b	-4.374*	-2.087*	-6.090 ^{ns}
hsa-miR-148b-3p	26.200*	41.917*	14.413*	hsa-miR-376c-5p	-4.137*	-2.890 ^{ns}	-5.073*
hsa-miR-125a-5p	26.003*	32.680*	20.995*	hsa-miR-6720-3p	-4.130*	-4.093*	-4.158*
hsa-miR-374a-5p	24.914*	33.517*	18.463*	hsa-miR-548a-5p	-4.041*	-5.240*	-3.143 ^{ns}
hsa-miR-15a-5p	23.687*	36.400*	14.153*	hsa-miR-519d-3p	-3.971*	-3.047 ^{ns}	-4.665*
LIG_POS_A	21.639*	20.453*	22.528*	hsa-miR-514a-3p	-3.917*	-3.483 ^{ns}	-4.243 ^{ns}
hsa-miR-191-5p	21.350*	30.440*	14.533*	hsa-miR-323b-5p	-3.903*	-3.680 ^{ns}	-4.070*
hsa-miR-29c-3p	19.719*	23.627*	16.788*	hsa-miR-133a-3p	-3.670*	-2.563*	-4.500 ^{ns}
hsa-miR-149-5p	17.483*	18.603*	16.643*	hsa-miR-203a-5p	-3.664*	-5.463 ^{ns}	-2.315 ^{ns}
hsa-miR-126-3p	14.644*	25.670*	6.375 ^{ns}	hsa-miR-922	-3.663*	-5.457*	-2.318*
hsa-miR-135a-5p	13.193*	21.453*	6.998*	hsa-miR-205-5p	-3.651*	-4.240 ^{ns}	-3.210 ^{ns}
hsa-miR-379-5p	12.457*	12.810*	12.193*	hsa-miR-27a-3p	-3.597*	-4.260*	-3.100 ^{ns}
hsa-let-7e-5p	12.009*	17.087*	8.200 ^{ns}	hsa-miR-1290	-3.566*	-3.060 ^{ns}	-3.945*
hsa-miR-377-3p	10.506*	10.643*	10.403*	hsa-miR-548b-3p	-3.563*	-3.957*	-3.268*
hsa-miR-98-5p	9.901*	16.187*	5.188*	hsa-miR-1183	-3.560*	-2.070 ^{ns}	-4.678 ^{ns}
hsa-miR-223-3p	9.769*	14.270*	6.393 ^{ns}	hsa-miR-188-5p	-3.543*	-3.100 ^{ns}	-3.875*
hsa-miR-219a-2-3p	9.226*	8.780 ^{ns}	9.560*	hsa-miR-4425	-3.510*	-3.103 ^{ns}	-3.815 ^{ns}
hsa-miR-411-5p	9.057*	16.183*	3.713 ^{ns}	hsa-miR-630	-3.366*	-4.457 ^{ns}	-2.548 ^{ns}
hsa-miR-132-3p	8.637*	10.437*	7.288*	hsa-miR-365a-3p+hsa-miR-365b-3p	-3.343*	-3.613 ^{ns}	-3.140 ^{ns}
LIG_POS_B	8.396*	8.340*	8.438*	hsa-miR-320d	-3.341*	-3.260 ^{ns}	-3.403*
hsa-miR-592	8.330*	10.540*	6.673*	hsa-miR-183-5p	-3.307*	-2.340 ^{ns}	-4.033*
hsa-miR-26a-5p	7.827*	10.957*	5.480 ^{ns}	hsa-miR-624-3p	-3.291*	-2.670 ^{ns}	-3.758*
hsa-miR-493-3p	7.793*	12.583*	4.200*	hsa-miR-133a-5p	-3.281*	-4.603 ^{ns}	-2.290 ^{ns}
hsa-miR-21-5p	7.403*	9.470 ^{ns}	5.853*	hsa-miR-648	-3.226*	-2.213 ^{ns}	-3.985*
hsa-miR-361-5p	7.346*	7.953*	6.890*	hsa-miR-548ar-3p	-3.210*	-4.917 ^{ns}	-1.930 ^{ns}
hsa-miR-154-5p	7.251*	8.993*	5.945*	hsa-miR-448	-3.077*	-5.490*	-1.268 ^{ns}
hsa-miR-140-5p	7.174*	12.367*	3.280*	hsa-miR-1273c	-2.989*	-3.260*	-2.785*
hsa-let-7d-5p	7.117*	10.680*	4.445 ^{ns}	hsa-miR-1304-3p	-2.817*	-1.893 ^{ns}	-3.510 ^{ns}
hsa-miR-495-3p	6.949*	8.937*	5.458 ^{ns}	hsa-miR-3195	-2.796*	-3.260 ^{ns}	-2.448 ^{ns}
hsa-miR-424-5p	6.924*	8.823*	5.500 ^{ns}	hsa-miR-508-3p	-2.777*	-2.580 ^{ns}	-2.925 ^{ns}
hsa-miR-340-5p	6.916*	9.030*	5.330*	hsa-miR-626	-2.670*	-2.763 ^{ns}	-2.600 ^{ns}
hsa-miR-25-3p	6.799*	7.783*	6.060*	hsa-miR-510-3p	-2.609*	-3.213*	-2.155 ^{ns}
hsa-miR-328-3p	6.747*	7.790*	5.965*	hsa-miR-520a-5p	-2.506*	-2.610 ^{ns}	-2.428 ^{ns}
hsa-miR-1180-3p	6.544*	6.193 ^{ns}	6.808 ^{ns}	hsa-miR-484	-2.490*	-2.317 ^{ns}	-2.620*
hsa-miR-128-3p	6.449*	7.137*	5.933*	hsa-miR-2053	-2.486*	-2.427 ^{ns}	-2.530 ^{ns}
hsa-miR-130a-3p	6.376*	8.253*	4.968*	hsa-miR-518e-3p	-2.461*	-2.700 ^{ns}	-2.283 ^{ns}
hsa-miR-22-3p	6.327*	6.603*	6.120 ^{ns}	hsa-miR-1224-3p	-2.450*	-2.793 ^{ns}	-2.193 ^{ns}
hsa-let-7g-5p	5.783*	10.780*	2.035 ^{ns}	hsa-miR-200b-3p	-2.450*	-2.730*	-2.240*
hsa-miR-222-3p	5.581*	4.617 ^{ns}	6.305 ^{ns}	hsa-miR-125a-3p	-2.404*	-2.507 ^{ns}	-2.328*
hsa-miR-323a-3p	5.563*	4.393 ^{ns}	6.440 ^{ns}	hsa-miR-485-5p	-2.397*	-2.500 ^{ns}	-2.320*
hsa-miR-582-5p	5.477*	8.680*	3.075*	hsa-miR-3605-3p	-2.381*	-2.480 ^{ns}	-2.308*
hsa-miR-543	5.416*	6.453*	4.638 ^{ns}	hsa-miR-892a	-2.331*	-2.777 ^{ns}	-1.998 ^{ns}
hsa-miR-450a-5p	5.397*	6.190*	4.803 ^{ns}	hsa-miR-612	-2.331*	-1.523 ^{ns}	-2.938 ^{ns}
hsa-miR-23a-3p	5.239*	4.773*	5.588*	hsa-miR-494-5p	-2.197*	-3.170 ^{ns}	-1.468 ^{ns}
hsa-miR-106a-5p+hsa-miR-17-5p	5.239*	5.183*	5.280 ^{ns}	hsa-miR-766-5p	-2.126*	-2.743 ^{ns}	-1.663 ^{ns}
hsa-miR-485-3p	5.193*	7.107*	3.758*	hsa-miR-3168	-2.120*	-2.253*	-2.020 ^{ns}
hsa-miR-129-5p	5.127*	4.530 ^{ns}	5.575 ^{ns}	hsa-miR-654-3p	-2.081*	-2.473 ^{ns}	-1.788 ^{ns}
hsa-miR-382-5p	4.879*	4.693 ^{ns}	5.018 ^{ns}	hsa-miR-181a-2-3p	-2.066*	-2.877 ^{ns}	-1.458 ^{ns}
hsa-miR-93-5p	4.816*	5.480*	4.318 ^{ns}	hsa-miR-6511a-3p	-1.993*	-1.990 ^{ns}	-1.995*
hsa-miR-144-3p	4.693*	6.763 ^{ns}	3.140 ^{ns}	hsa-miR-10b-5p	-1.983*	-2.373 ^{ns}	-1.690 ^{ns}
hsa-miR-487b-3p	4.670*	6.660*	3.178 ^{ns}	hsa-miR-1269b	-1.884*	-1.967 ^{ns}	-1.823 ^{ns}
hsa-miR-30e-3p	4.531*	5.363*	3.908 ^{ns}	hsa-miR-561-5p	-1.859*	-1.787 ^{ns}	-1.913 ^{ns}
hsa-miR-15b-5p	4.476*	7.493*	2.213 ^{ns}	hsa-miR-548l	-1.827*	-1.697*	-1.925*
hsa-miR-181b-5p+hsa-miR-181d-5p	4.439*	5.170*	3.890*	hsa-miR-744-5p	-1.824*	-2.460 ^{ns}	-1.348 ^{ns}
hsa-miR-488-3p	4.427*	4.000*	4.748 ^{ns}	hsa-miR-939-5p	-1.763*	-2.170 ^{ns}	-1.458 ^{ns}
hsa-miR-487a-3p	4.313*	5.363*	3.525*	hsa-miR-4448	-1.751*	-1.827 ^{ns}	-1.695 ^{ns}
hsa-miR-361-3p	4.309*	4.687*	4.025*	hsa-miR-200c-3p	-1.733*	-2.420 ^{ns}	-1.218 ^{ns}
hsa-miR-33a-5p	4.021*	4.513*	3.653*	hsa-miR-302d-3p	-1.641*	-2.023 ^{ns}	-1.355 ^{ns}
hsa-miR-497-5p	3.960*	3.580 ^{ns}	4.245*	hsa-miR-367-3p	-1.600*	-2.140 ^{ns}	-1.195 ^{ns}
hsa-miR-758-3p+hsa-miR-411-3p	3.640*	4.347 ^{ns}	3.110 ^{ns}	hsa-miR-514b-5p	-1.573*	-2.200 ^{ns}	-1.103 ^{ns}
hsa-miR-26b-5p	3.561*	5.963*	1.760 ^{ns}	hsa-miR-1185-5p	-1.387*	-1.973 ^{ns}	-0.948 ^{ns}
hsa-let-7b-5p	3.459*	3.807 ^{ns}	3.198 ^{ns}				
hsa-miR-23b-3p	3.349*	4.807*	2.255*				
hsa-miR-27b-3p	2.916*	3.007 ^{ns}	2.848 ^{ns}				
hsa-miR-433-3p	2.760*	3.693 ^{ns}	2.060 ^{ns}				
hsa-miR-598-3p	2.604*	2.703 ^{ns}	2.530*				
hsa-miR-137	2.426*	3.570*	1.568 ^{ns}				
hsa-miR-423-3p	2.390*	2.743 ^{ns}	2.125 ^{ns}				
hsa-miR-374c-5p	2.364*	1.837 ^{ns}	2.760 ^{ns}				
hsa-miR-491-5p	2.316*	2.023 ^{ns}	2.535 ^{ns}				
hsa-miR-204-5p	2.289*	1.707 ^{ns}	2.725*				
hsa-miR-619-3p	1.633*	1.807 ^{ns}	1.503 ^{ns}				

Supplemental Table 2. Differentially Expressed miRNAs in T158M and R255X Rett Patient Temporal Cortices.

The number of upregulated (+) and downregulated (–) differentially expressed miRNAs (DEMs) identified in postmortem temporal cortices of Rett syndrome (RTT) patients. The data are categorized into three groups: all RTT cases combined, and the T158M and R255X mutation subpopulations. For each group, the average fold change (FC) of significant DEMs is presented. The values reflect the alterations in miRNA expression relative to control samples, providing insights into the molecular changes associated with these specific RTT mutations.