

**Supplemental Table S2.** Differentially expressed microRNAs between AD and Control from ad-sEVs isolated from serum (Fold Change  $\geq |1.1|$ ; p-value  $< 0.1$ )

Transcript ID	Fold-Change(AD vs. Control)	p-Value (AD vs. Control)
hsa-let-7a-5p	-1.13177	0.0277742
hsa-let-7c-3p	1.13721	0.0812868
hsa-miR-106b-5p	-1.1333	0.0859059
hsa-miR-10b-3p	1.2967	0.0826638
hsa-miR-1199-3p	1.22177	0.0043076
hsa-miR-1199-5p	1.10667	0.0293895
hsa-miR-1236-3p	1.24025	0.0347887
hsa-miR-1237-3p	1.13805	0.0815098
hsa-miR-1250-3p	1.10404	0.0314444
hsa-miR-1252-3p	1.11744	0.022432
hsa-miR-1255b-5p	1.44971	0.0475576
hsa-miR-125b-2-3p	1.10283	0.0428087
hsa-miR-1286	1.12377	0.0317488
hsa-miR-1303	1.11739	0.0650393
hsa-miR-1343-3p	1.88688	0.0266127
hsa-miR-138-1-3p	-1.70133	0.095376
hsa-miR-138-5p	1.12729	0.0573332
hsa-miR-139-5p	1.15103	0.0338362
hsa-miR-185-5p	1.10646	0.0326375
hsa-miR-186-3p	-1.1369	0.0628287
hsa-miR-187-5p	-1.24044	0.0205276
hsa-miR-1908-5p	1.17038	0.0963102
hsa-miR-190a-5p	-1.11827	0.087159
hsa-miR-1913	1.24058	0.0488713
hsa-miR-1914-5p	1.41906	0.0894655
hsa-miR-196a-5p	-1.18471	0.0560181
hsa-miR-197-5p	1.19797	0.0338943
hsa-miR-200c-5p	-1.10768	0.0368413
hsa-miR-208a-5p	-1.13035	0.0977729
hsa-miR-21-5p	-1.15849	0.000795994
hsa-miR-217	2.49834	0.0483326
hsa-miR-224-3p	1.10096	0.0694768
hsa-miR-224-5p	1.10065	0.07306
hsa-miR-2276-5p	1.10549	0.0794444
hsa-miR-24-2-5p	-1.29857	0.0256113
hsa-miR-26a-5p	1.13122	0.0498957

hsa-miR-297	-1.16488	0.00473434
hsa-miR-301a-3p	1.11862	0.0375706
hsa-miR-301b	-1.10113	0.0573039
hsa-miR-302f	-1.11358	0.0651033
hsa-miR-3064-3p	-1.24351	0.0411377
hsa-miR-31-3p	1.12535	0.0497808
hsa-miR-3117-5p	1.11547	0.0378873
hsa-miR-3158-5p	1.11649	0.0340265
hsa-miR-3160-3p	1.33344	0.00741704
hsa-miR-3166	1.14363	0.012546
hsa-miR-3175	1.22684	0.0039855
hsa-miR-3177-5p	1.13193	0.0279692
hsa-miR-3188	-1.1435	0.0302046
hsa-miR-323a-5p	1.1365	0.0618984
hsa-miR-33a-3p	-1.11106	0.0898195
hsa-miR-3605-3p	-1.11726	0.0731036
hsa-miR-3605-5p	1.18348	0.0744513
hsa-miR-3607-5p	-1.11851	0.0200367
hsa-miR-3612	-1.10526	0.00594083
hsa-miR-3620-5p	-1.22408	0.0941493
hsa-miR-3622b-3p	-1.10656	0.00389375
hsa-miR-3655	-1.27514	0.00768299
hsa-miR-3678-5p	1.37184	0.0146815
hsa-miR-3679-3p	1.62929	0.00538746
hsa-miR-3692-3p	1.15509	0.0266596
hsa-miR-374b-3p	-1.10538	0.06478
hsa-miR-376a-2-5p	-1.11308	0.024737
hsa-miR-3915	1.26589	0.0621354
hsa-miR-3921	1.52714	0.0717592
hsa-miR-3926	1.29811	0.0700366
hsa-miR-3943	1.32304	0.0139314
hsa-miR-3944-3p	1.11612	0.0938358
hsa-miR-3944-5p	1.15203	0.0283838
hsa-miR-409-5p	-1.2437	0.00159462
hsa-miR-4259	-1.20347	0.00386513
hsa-miR-4273	-1.19161	0.00845012
hsa-miR-4279	1.11875	0.029903
hsa-miR-429	-1.17203	0.0952935
hsa-miR-4294	1.16799	0.00220369
hsa-miR-4306	-1.13151	0.0483574

hsa-miR-4329	1.1205	0.0783501
hsa-miR-4419a	-1.19907	0.00477339
hsa-miR-4421	-1.14277	0.0657246
hsa-miR-4422	2.53444	0.0477607
hsa-miR-4424	1.2313	0.00102055
hsa-miR-4446-5p	1.20764	0.00599809
hsa-miR-4450	1.11036	0.0911047
hsa-miR-4459	1.13035	0.0963205
hsa-miR-4464	-1.10148	0.0776449
hsa-miR-4471	1.10779	0.0877703
hsa-miR-4482-5p	1.12715	0.0707577
hsa-miR-4505	-1.17037	0.0282409
hsa-miR-451b	1.10779	0.0787897
hsa-miR-4524b-5p	-1.19024	0.000287977
hsa-miR-4528	-1.13825	0.0155555
hsa-miR-4529-3p	1.21225	0.020685
hsa-miR-4530	-1.1546	0.0383548
hsa-miR-4538	-1.12579	0.0275112
hsa-miR-455-3p	-1.5558	0.0254584
hsa-miR-4643	1.15976	0.0389565
hsa-miR-4666a-5p	1.20238	0.0574589
hsa-miR-4670-5p	1.13946	0.0448325
hsa-miR-4705	1.1031	0.0571685
hsa-miR-4716-5p	1.35962	0.0528678
hsa-miR-4723-3p	1.30219	0.0916889
hsa-miR-4725-3p	1.1259	0.0980072
hsa-miR-4731-5p	1.10242	0.01535
hsa-miR-4733-3p	-1.12511	0.0948208
hsa-miR-4734	-1.14392	0.0269979
hsa-miR-4735-3p	1.13758	0.0205188
hsa-miR-4742-5p	-1.20726	0.0713683
hsa-miR-4743-3p	1.12787	0.032405
hsa-miR-4747-3p	1.13943	0.0190976
hsa-miR-4749-3p	1.44526	0.0798796
hsa-miR-4753-5p	1.29308	0.0215797
hsa-miR-4756-5p	2.01263	0.0856924
hsa-miR-4763-5p	1.13363	0.0511754
hsa-miR-4767	1.14421	0.00608644
hsa-miR-4768-3p	-1.13528	0.0220058
hsa-miR-4773	1.17105	0.0354102
hsa-miR-487a-5p	-1.13877	0.0253692

hsa-miR-488-3p	-1.14613	0.0324509
hsa-miR-497-5p	1.14022	0.0667661
hsa-miR-5004-3p	1.10906	0.0290855
hsa-miR-5008-3p	1.18026	0.0312064
hsa-miR-5009-5p	1.13581	0.0830887
hsa-miR-5047	1.10249	0.0891322
hsa-miR-505-3p	-1.11684	0.0835975
hsa-miR-5096	1.10076	0.0358596
hsa-miR-512-3p	-1.10807	0.0749698
hsa-miR-516b-5p	1.14368	0.0186076
hsa-miR-5187-3p	1.10482	0.0811398
hsa-miR-5197-5p	-1.20511	0.0827939
hsa-miR-519d-5p	-1.13717	0.0862293
hsa-miR-545-3p	1.12151	0.0350689
hsa-miR-548av-3p	1.26309	0.00348708
hsa-miR-548k	-1.16243	0.0050528
hsa-miR-548v	-1.15262	0.00815877
hsa-miR-5572	-1.25752	0.00260632
hsa-miR-5581-3p	1.16398	0.0275883
hsa-miR-5581-5p	-1.11488	0.0730323
hsa-miR-564	1.11734	0.0192397
hsa-miR-5707	-1.12952	0.0144714
hsa-miR-579-3p	-1.12952	0.087975
hsa-miR-591	1.10255	0.0318109
hsa-miR-601	1.16821	0.0254619
hsa-miR-603	-1.27833	0.0440589
hsa-miR-6069	1.54165	0.000552017
hsa-miR-6085	1.37303	0.0422034
hsa-miR-6087	1.58062	0.079137
hsa-miR-6089	1.96894	0.0952743
hsa-miR-6129	-1.12131	0.0908769
hsa-miR-621	1.13556	0.036581
hsa-miR-622	-1.12012	0.0756841
hsa-miR-624-3p	1.10669	0.00659693
hsa-miR-654-5p	1.14644	0.0708922
hsa-miR-660-5p	-1.10486	0.0364328
hsa-miR-670-5p	-1.12571	0.0256287
hsa-miR-6716-3p	1.42473	0.00359851
hsa-miR-6760-3p	1.47814	0.0243843
hsa-miR-6761-5p	-1.10375	0.0767089
hsa-miR-6770-5p	1.12869	0.0736925

hsa-miR-6786-3p	1.29276	0.0110051
hsa-miR-6787-3p	-1.11356	0.0775895
hsa-miR-6793-3p	1.23888	0.0820825
hsa-miR-6793-5p	1.14179	0.014394
hsa-miR-6798-3p	1.41431	0.0475633
hsa-miR-6812-3p	1.3314	0.0130667
hsa-miR-6817-3p	-1.15096	0.0727983
hsa-miR-6819-5p	1.18943	0.0600201
hsa-miR-6823-5p	1.10534	0.0809655
hsa-miR-6824-3p	1.17036	0.0384258
hsa-miR-6825-5p	1.14079	0.0724082
hsa-miR-6829-3p	-1.17579	0.0234138
hsa-miR-6837-3p	1.35107	0.0131251
hsa-miR-6838-5p	1.13749	0.0909215
hsa-miR-6842-5p	1.14788	0.00748683
hsa-miR-6846-3p	1.16616	0.0679891
hsa-miR-6846-5p	-1.15192	0.0477337
hsa-miR-6865-3p	-1.1136	0.0657678
hsa-miR-6868-5p	1.16826	0.075809
hsa-miR-6869-3p	1.1009	0.0239604
hsa-miR-6875-3p	1.13177	0.0325637
hsa-miR-6890-3p	1.22677	0.0542669
hsa-miR-7113-3p	1.99159	0.00621289
hsa-miR-767-3p	1.3135	0.0120529
hsa-miR-7706	1.11321	0.047162
hsa-miR-8083	-1.11311	0.0170642
hsa-miR-874-5p	1.18564	0.0716315
hsa-miR-888-5p	1.7567	0.0167286
hsa-miR-891a-3p	-1.12629	0.0541082
hsa-miR-93-5p	1.33629	0.0262484
hsa-miR-95-5p	1.16344	0.0267385