

Supplement Table 1. Sequences of mature microRNAs

Assay ID	Assay Name	Mature microRNA Sequence (5'→3')
002406	hsa-let-7e	UGAGGUAGGAGGUUGUAUAGUU
000397	hsa-miR-21-5p	UGAGGUAGUAGGUUGUAUGGUU
002278	hsa-miR-145	GUCCAGUUUCCAGGAAUCCCU
000468	hsa-miR-146a	UGAGAACUGAAUCCAUGGGUU
002623	hsa-miR-155	UUAAUGC AAAUCGUAUAGGGGU
002295	hsa-miR-223	UGUCAGUUUGUCAAAUACCCCA
001973		U6

Supplement Table 2. Comparison of mRNA expression levels ($-\Delta Ct$) of negative regulators in MDD patients before and after two different antidepressant treatments

	SSRIs (n = 21)		<i>p</i> -value	SNRIs (n = 32)		<i>p</i> -value
	Pre-treatment	Post-treatment		Pre-treatment	Post-treatment	
let-7e	-4.53 ± 2.28	-3.39 ± 1.71	<i>p</i> = 0.008**	-4.13 ± 1.37	-3.91 ± 1.31	<i>p</i> = 0.417
miR-21-5p	-6.75 ± 2.74	-6.08 ± 2.41	<i>p</i> = 0.277	-5.52 ± 1.67	-5.38 ± 1.60	<i>p</i> = 0.665
miR-223	2.19 ± 2.30	3.22 ± 1.78	<i>p</i> = 0.014*	3.34 ± 1.26	3.46 ± 1.55	<i>p</i> = 0.497
miR-145	-5.91 ± 1.54	-5.21 ± 1.47	<i>p</i> = 0.010*	-5.89 ± 1.45	-5.93 ± 1.59	<i>p</i> = 0.910
miR-146a	-2.88 ± 2.99	-2.32 ± 2.81	<i>p</i> = 0.181	-1.33 ± 1.35	-1.17 ± 1.48	<i>p</i> = 0.505
miR-155	-4.08 ± 2.73	-3.07 ± 1.97	<i>p</i> = 0.006**	-2.93 ± 1.03	-2.81 ± 1.09	<i>p</i> = 0.570

Mann-Whitney Test was used to compare differences between pre- and post-treatment in SSRI group.

A paired sample t-test was used to compare differences between pre- and post-treatment in SNRI group.

GAPDH was used as a housekeeping gene to assess the relative abundance of mRNA; **p*-value < 0.05, ***p*-value < 0.01

SSRIs, selective serotonin reuptake inhibitors; SNRIs, Serotonin-norepinephrine reuptake inhibitors