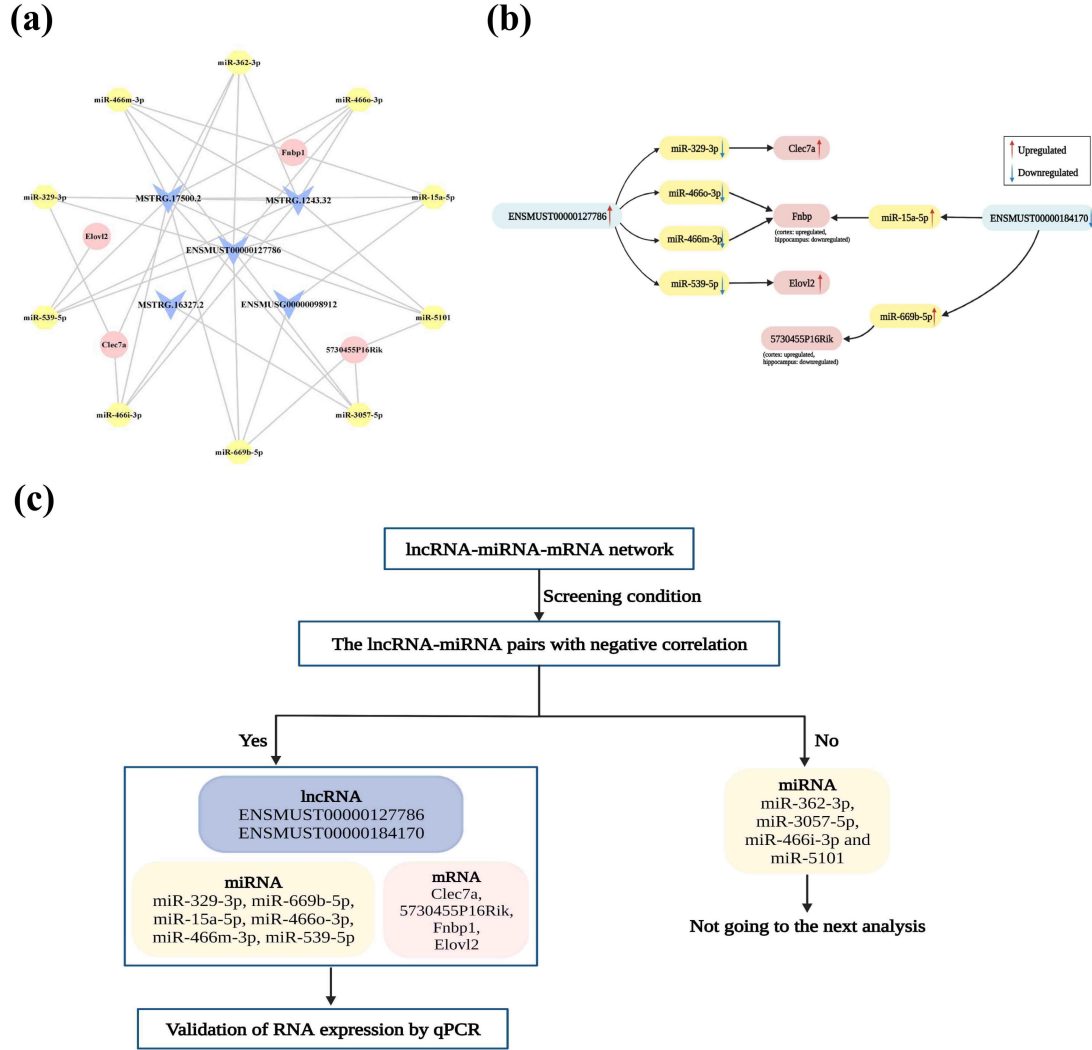


# Supplementary Materials

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**Figure S1.** Processing of establishment of potential interactions between lncRNAs, miRNAs, and mRNAs in the cerebral cortex and hippocampus of 5×FAD mice. (a) Establishment of the L-M-T network based on five lncRNAs, ten miRNAs, and four mRNAs. The lncRNAs, miRNAs, and mRNAs are indicated as V-shapes, octagons, and circular shapes, respectively. (b) Potential interactions between screened lncRNAs, miRNAs, and mRNAs in the L-M-T network. The arrows indicate the potential effect of one RNA on another RNA. (c) Workflow of screened RNAs for qPCR validation. lncRNA: long non-coding RNA; miRNA: microRNA; mRNA: messenger RNA; qPCR: quantitative real-time Polymerase Chain Reaction.

**Table S1.** Quality assessment of 12 cDNA libraries associated with lncRNAs.

Samples	Total Reads Count	Total Bases Count (bp)	Average Read Length (bp)	N Bases Count (bp)	N Bases Ratio (%)	GC Bases Count (bp)	GC Bases Ratio (%)
Cerebral cortex of 7-month-old WT mice-1	70,848,618	10,627,292,700	150	198,826	0.00	5,216,312,261	49.08
Cerebral cortex of 7-month-old WT mice-2	73,438,846	11,015,826,900	150	219,101	0.00	5,345,363,860	48.52
Cerebral cortex of 7-month-old WT mice-3	54,045,806	8,106,870,900	150	196,809	0.00	3,805,904,026	46.95
Cerebral cortex of 7-month-old 5×FAD mice-1	70,387,314	10,558,097,100	150	234,038	0.00	5,072,148,931	48.04
Cerebral cortex of 7-month-old 5×FAD mice-2	59,014,786	8,852,217,900	150	205,973	0.00	4,217,932,828	47.65
Cerebral cortex of 7-month-old 5×FAD mice-3	70,632,868	10,594,930,200	150	214,497	0.00	5,095,059,928	48.09
Hippocampus of 7-month-old WT mice-1	77,487,284	11,623,092,600	150	300,138	0.00	5,528,175,705	47.56
Hippocampus of 7-month-old WT mice-2	77,478,166	11,621,724,900	150	279,909	0.00	5,488,985,013	47.23
Hippocampus of 7-month-old WT mice-3	72,130,852	10,819,627,800	150	266,620	0.00	5,191,919,471	47.99
Hippocampus of 7-month-old 5×FAD mice-1	59,970,682	8,995,602,300	150	180,081	0.00	4,369,498,492	48.57
Hippocampus of 7-month-old 5×FAD mice-2	69,198,998	10,379,849,700	150	208,504	0.00	4,884,950,222	47.06
Hippocampus of 7-month-old 5×FAD mice-3	62,388,494	9,358,274,100	150	222,352	0.00	4,585,485,011	49.00

**Table S2.** Information of the upregulated lncRNA-miRNA network in the cortex of 7-month-old 5×FAD mice.

Upregulated lncRNA	miRNA targets
ENSMUST00000127786	miR-466m-3p
ENSMUST00000127786	miR-669a-3-3p
ENSMUST00000127786	miR-669c-3p
ENSMUST00000127786	miR-466o-3p
ENSMUST00000127786	miR-98-5p
ENSMUST00000127786	miR-3473d
ENSMUST00000127786	miR-686
ENSMUST00000127786	miR-6904-5p
ENSMUST00000127786	miR-6984-5p
ENSMUST00000127786	miR-6240
ENSMUST00000127786	miR-466b-3p
ENSMUST00000127786	miR-466p-3p
ENSMUST00000127786	miR-3060-3p
ENSMUST00000127786	miR-466c-3p
ENSMUST00000127786	miR-669i
ENSMUST00000127786	miR-466n-3p
ENSMUST00000127786	miR-669p-3p
ENSMUST00000127786	miR-7000-5p
ENSMUST00000127786	miR-6914-5p
ENSMUST00000127786	miR-186-5p
ENSMUST00000127786	miR-7092-3p
ENSMUST00000127786	miR-448-3p
ENSMUST00000127786	miR-494-3p
ENSMUST00000127786	miR-330-3p
ENSMUST00000127786	miR-3569-5p
ENSMUST00000127786	miR-30c-2-3p
ENSMUST00000127786	miR-26a-5p
ENSMUST00000127786	miR-107-3p
ENSMUST00000127786	miR-760-5p
ENSMUST00000127786	miR-103-3p
ENSMUST00000127786	miR-6916-3p
ENSMUST00000127786	miR-6927-3p
ENSMUST00000127786	miR-7116-5p
ENSMUST00000127786	let-7a-5p
ENSMUST00000127786	let-7d-5p
ENSMUST00000127786	miR-6970-5p
ENSMUST00000127786	miR-543-3p
ENSMUST00000127786	miR-221-5p
ENSMUST00000127786	miR-132-3p
ENSMUST00000127786	miR-23b-3p
ENSMUST00000127786	miR-195a-5p

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ENSMUST00000127786	miR-129b-3p
ENSMUST00000127786	miR-1191b-5p
ENSMUST00000127786	miR-6982-3p
ENSMUST00000127786	miR-425-5p
ENSMUST00000127786	miR-543-5p
ENSMUST00000127786	miR-148b-3p
ENSMUST00000127786	miR-3069-5p
ENSMUST00000127786	miR-466d-3p
ENSMUST00000127786	miR-3095-5p
ENSMUST00000127786	miR-466a-3p
ENSMUST00000127786	miR-27b-3p
ENSMUST00000127786	miR-466e-3p
ENSMUST00000127786	miR-6933-3p
ENSMUST00000127786	miR-6925-5p
ENSMUST00000127786	miR-201-5p
ENSMUST00000127786	miR-3474
ENSMUST00000127786	let-7g-5p
ENSMUST00000127786	miR-551b-5p
ENSMUST00000127786	miR-1933-5p
ENSMUST00000127786	miR-342-3p
ENSMUST00000127786	miR-410-3p
ENSMUST00000127786	miR-1949
ENSMUST00000127786	miR-26b-5p
ENSMUST00000127786	miR-6937-5p
ENSMUST00000127786	miR-3064-5p
ENSMUST00000127786	miR-5615-5p
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MSTRG.5009.1	miR-3082-5p
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**Table S3.** Information of the downregulated lncRNA-miRNA network in the cortex of 7-month-old 5×FAD mice.

Downregulated lncRNA	miRNA targets
ENSMUST00000184170	miR-380-3p
ENSMUST00000184170	miR-1933-3p
ENSMUST00000184170	miR-743b-3p
ENSMUST00000184170	miR-669b-5p
ENSMUST00000184170	miR-214-3p
ENSMUST00000184170	miR-7080-3p
ENSMUST00000184170	miR-411-5p
ENSMUST00000184170	miR-153-3p
ENSMUST00000184170	miR-15a-5p
ENSMUST00000184170	miR-16-5p
ENSMUST00000184170	miR-322-5p
ENSMUST00000184170	miR-497a-5p
ENSMUST00000184170	miR-195b
ENSMUST00000184170	miR-193a-3p
ENSMUST00000184170	miR-193b-3p
ENSMUST00000184170	miR-18a-5p
ENSMUST00000184170	miR-3070-5p
ENSMUST00000184170	miR-488-3p
ENSMUST00000184170	miR-145b
ENSMUST00000184170	miR-127-5p
ENSMUST00000184170	miR-7043-3p
ENSMUST00000184170	miR-669p-5p
ENSMUST00000184170	miR-29c-5p
ENSMUST00000184170	miR-3058-3p
ENSMUST00000145774	miR-7056-5p
ENSMUST00000132392	miR-23b-5p
ENSMUST00000132392	miR-7048-3p
ENSMUST00000132392	miR-98-3p
ENSMUST00000132392	let-7f-1-3p
ENSMUST00000132392	let-7b-3p
ENSMUST00000132392	miR-7077-3p
ENSMUST00000182451	miR-669e-5p
ENSMUST00000182451	miR-1933-3p
ENSMUST00000182451	miR-6906-5p
ENSMUST00000182451	miR-666-3p
ENSMUST00000161415	miR-6919-5p
ENSMUST00000161415	miR-6954-3p
ENSMUST00000161415	miR-574-5p
ENSMUST00000161415	miR-1291
ENSMUST00000161415	miR-1258-3p
ENSMUST00000161415	miR-210-5p

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ENSMUST00000161415	miR-709
ENSMUST00000161415	miR-342-5p
ENSMUST00000161415	miR-7684-5p
ENSMUST00000161415	miR-3078-3p
ENSMUST00000161415	miR-3087-5p
ENSMUST00000161415	miR-7034-3p
ENSMUST00000161415	miR-3084-5p
ENSMUST00000161415	miR-3090-3p
ENSMUST00000161415	miR-134-5p
ENSMUST00000161415	miR-330-5p
ENSMUST00000161415	miR-326-3p
ENSMUST00000161415	miR-6907-5p
ENSMUST00000161415	miR-101b-3p
ENSMUST00000161415	miR-1188-3p
ENSMUST00000161415	miR-669e-5p
ENSMUST00000161637	miR-346-3p
ENSMUST00000161637	miR-210-5p
ENSMUST00000161637	miR-27a-3p
ENSMUST00000161637	miR-193b-5p
ENSMUST00000161637	miR-300-5p
ENSMUST00000161637	miR-16-1-3p
ENSMUST00000161637	miR-1258-5p
ENSMUST00000161637	miR-16-2-3p
ENSMUST00000161637	miR-219a-5p
ENSMUST00000161637	miR-702-5p
ENSMUST00000161637	miR-337-3p
ENSMUST00000161637	miR-7013-3p
ENSMUST00000161637	miR-881-3p
ENSMUST00000161637	miR-300-3p
ENSMUST00000161637	miR-3078-3p
ENSMUST00000161637	miR-6985-3p
ENSMUST00000161637	miR-673-5p
ENSMUST00000161637	miR-6900-5p
ENSMUST00000161637	miR-666-3p
ENSMUST00000161637	miR-152-5p
ENSMUST00000161637	miR-376c-3p
ENSMUST00000161637	miR-214-5p
ENSMUST00000124691	miR-3098-3p
ENSMUST00000124691	miR-6899-3p
ENSMUST00000124691	miR-28b
ENSMUST00000124691	miR-136-5p
ENSMUST00000141539	miR-6918-5p
ENSMUST00000141539	miR-7037-3p
ENSMUST00000141539	miR-1224-3p

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ENSMUST00000141539	miR-3067-5p
ENSMUST00000141539	miR-216a-3p
ENSMUST00000141539	miR-214-3p
ENSMUST00000141539	miR-6954-3p
ENSMUST00000141539	miR-1258-5p
ENSMUST00000162401	miR-6901-5p
ENSMUST00000162401	miR-20a-3p
ENSMUST00000162401	miR-326-3p
ENSMUST00000162401	miR-330-5p
ENSMUST00000162401	miR-337-3p
ENSMUST00000162401	miR-3085-5p
ENSMUST00000162401	miR-7662-5p
ENSMUST00000162401	miR-152-3p
ENSMUST00000162401	miR-148a-3p
ENSMUST00000162401	miR-8103
ENSMUST00000162401	miR-7675-3p
ENSMUST00000162401	miR-214-3p
ENSMUST00000162401	miR-690
ENSMUST00000139277	miR-30d-3p
ENSMUST00000139277	miR-6934-5p
ENSMUST00000139277	miR-211-5p
ENSMUST00000139277	miR-3088-3p
ENSMUST00000129857	miR-378b
ENSMUST00000129857	miR-7043-3p
ENSMUST00000129857	miR-6418-3p
ENSMUST00000129857	miR-666-3p
ENSMUST00000129857	miR-3057-5p
ENSMUST00000129857	miR-7034-3p
ENSMUST00000129857	miR-935
ENSMUST00000129857	miR-7117-3p
ENSMUST00000129857	miR-145b
ENSMUST00000129857	miR-6966-3p
ENSMUST00000129857	miR-5624-5p
ENSMUST00000129857	miR-138-5p
ENSMUST00000129857	miR-7237-3p
ENSMUST00000129857	miR-23b-5p
ENSMUST00000129857	miR-3078-3p
ENSMUST00000129857	miR-337-3p
ENSMUST00000129857	miR-669k-5p
ENSMUST00000209301	miR-7222-3p
ENSMUST00000199237	miR-871-3p
ENSMUST00000199237	miR-700-5p
ENSMUST00000199237	miR-758-3p
ENSMUST00000199237	miR-666-3p

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ENSMUST00000199237	let-7k
ENSMUST00000199237	let-7c-5p
ENSMUST00000199237	let-7b-5p
ENSMUST00000199237	miR-7024-3p
ENSMUST00000137980	miR-296-5p
ENSMUST00000137980	miR-490-3p
ENSMUST00000137980	miR-107-5p
ENSMUST00000137980	miR-103-2-5p
ENSMUST00000137980	miR-103-1-5p
ENSMUST00000137980	miR-1958
ENSMUST00000137980	miR-5621-3p
ENSMUST00000141357	miR-6898-5p
ENSMUST00000141357	miR-339-5p
ENSMUST00000141357	miR-7211-5p
ENSMUST00000141357	miR-743b-3p
ENSMUST00000141357	miR-708-5p
ENSMUST00000141357	miR-337-3p
ENSMUST00000141357	miR-135b-5p
ENSMUST00000141357	miR-135a-5p
ENSMUST00000141357	miR-7049-5p
ENSMUST00000141357	miR-6979-3p
ENSMUST00000210394	miR-298-5p
ENSMUST00000210394	miR-6900-5p
ENSMUST00000210394	miR-3073a-3p
ENSMUST00000146588	miR-182-5p
ENSMUST00000146588	miR-7000-3p
ENSMUST00000146588	miR-876-5p
ENSMUST00000146588	miR-1249-5p
ENSMUST00000144628	miR-7042-5p
ENSMUST00000144628	miR-5615-3p
ENSMUST00000144628	miR-8107
ENSMUST00000144628	miR-3086-5p
ENSMUST00000144628	miR-7243-3p
ENSMUST00000144628	miR-214-5p
ENSMUST00000144628	miR-6913-5p
ENSMUST00000144628	miR-376b-3p
ENSMUST00000145741	miR-7214-5p
ENSMUST00000145741	miR-290b-5p
ENSMUST00000145741	miR-142b
ENSMUST00000145741	miR-199b-5p
ENSMUST00000145741	miR-199a-5p
ENSMUST00000145741	miR-22-5p
ENSMUST00000145741	miR-3572-5p
ENSMUST00000145741	miR-1930-5p

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ENSMUST00000145741	miR-20a-3p
ENSMUST00000145741	miR-7688-5p
ENSMUST00000145741	miR-7675-3p
ENSMUST00000145741	miR-7024-3p
ENSMUST00000145741	miR-96-3p
ENSMUST00000145741	miR-344f-5p
ENSMUST00000145741	miR-7669-3p
ENSMUST00000145741	miR-449a-5p
ENSMUST00000145741	miR-34a-5p
ENSMUST00000145741	miR-3088-3p
ENSMUST00000145741	miR-1231-5p
ENSMUST00000145741	miR-743b-3p
ENSMUST00000145741	miR-224-5p
ENSMUST00000145741	miR-6905-5p
ENSMUST00000145741	miR-6994-5p
ENSMUST00000145741	miR-3106-5p
ENSMUST00000145741	miR-206-3p
ENSMUST00000145741	miR-767
ENSMUST00000145741	miR-449c-5p
ENSMUST00000145741	miR-449b
ENSMUST00000145741	miR-34c-5p
ENSMUST00000145741	miR-34b-5p
ENSMUST00000145741	miR-130b-3p
ENSMUST00000145741	miR-7034-3p
ENSMUST00000145741	miR-19b-3p
ENSMUST00000145741	miR-19a-3p
ENSMUST00000145741	miR-300-5p
ENSMUST00000145741	miR-7048-3p
ENSMUST00000145741	miR-135b-5p
ENSMUST00000145741	miR-135a-5p
ENSMUST00000221246	miR-7117-3p
ENSMUST00000221246	miR-300-5p
ENSMUST00000221246	miR-665-3p
ENSMUST00000221246	miR-744-3p
ENSMUST00000221246	miR-5619-5p
ENSMUST00000221246	miR-290b-5p
ENSMUST00000221246	miR-6967-3p
ENSMUST00000221246	miR-6896-3p
ENSMUST00000221246	miR-205-5p
ENSMUST00000221246	miR-6918-5p
ENSMUST00000221246	miR-147-5p
MSTRG.17500.1	miR-466i-5p
MSTRG.17500.1	miR-466d-5p
MSTRG.17500.1	miR-6899-3p

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MSTRG.17500.1	miR-3090-3p
MSTRG.17500.1	miR-210-5p
MSTRG.17500.1	miR-6940-3p
MSTRG.17500.1	miR-7675-3p
MSTRG.17500.1	miR-6951-5p
MSTRG.17500.1	miR-3473a
MSTRG.17500.1	miR-20b-3p
MSTRG.17500.1	miR-17-3p
MSTRG.17500.1	miR-3073a-3p
MSTRG.17500.1	miR-199b-3p
MSTRG.17500.1	miR-199a-3p
MSTRG.17500.1	miR-134-5p
MSTRG.17500.1	miR-6979-3p
MSTRG.17500.1	miR-7056-5p
MSTRG.17500.1	miR-340-5p
MSTRG.17500.1	miR-7000-3p
MSTRG.17500.1	miR-421-5p
MSTRG.17500.1	miR-670-3p
MSTRG.17500.1	miR-3110-5p
MSTRG.17500.1	miR-1258-5p
MSTRG.17500.1	miR-3547-5p
MSTRG.17500.1	miR-1249-3p
MSTRG.17500.1	miR-491-3p
MSTRG.17500.1	miR-3098-3p
MSTRG.17500.1	miR-7217-5p
MSTRG.17500.1	miR-6953-3p
MSTRG.17500.1	miR-7117-3p
MSTRG.17500.1	miR-211-5p
MSTRG.17500.1	miR-6537-5p
MSTRG.17500.1	miR-202-5p
MSTRG.17500.1	miR-134-3p
MSTRG.17500.1	miR-3059-5p
MSTRG.18699.11	miR-216a-3p
MSTRG.18699.11	miR-187-5p
MSTRG.18699.11	miR-3108-5p
MSTRG.18699.11	miR-1231-3p
MSTRG.18699.11	miR-652-5p
MSTRG.18699.11	miR-6907-5p
MSTRG.18699.11	miR-6900-5p
MSTRG.18699.11	miR-6967-3p
MSTRG.7748.1	miR-466i-5p
MSTRG.7748.1	miR-466d-5p
MSTRG.7748.1	miR-7217-5p
MSTRG.7748.1	miR-297a-5p

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MSTRG.7748.1	miR-297c-5p
MSTRG.7748.1	miR-297b-5p
MSTRG.7748.1	miR-6896-3p
MSTRG.7748.1	miR-7118-3p
MSTRG.7748.1	miR-669b-5p
MSTRG.7748.1	miR-1a-1-5p
MSTRG.7748.1	miR-802-5p
MSTRG.7748.1	miR-7093-3p
MSTRG.7748.1	miR-19b-1-5p
MSTRG.7748.1	miR-190a-3p
MSTRG.7748.1	miR-488-3p
MSTRG.7748.1	miR-466n-5p
MSTRG.7748.1	miR-3064-3p
MSTRG.7748.1	miR-758-3p
MSTRG.7748.1	miR-374b-5p
MSTRG.7748.1	miR-3963
MSTRG.7748.1	miR-3086-5p
MSTRG.7748.1	miR-7047-3p
MSTRG.7748.1	miR-134-5p
MSTRG.7748.1	miR-669k-5p
MSTRG.7748.1	miR-1192
MSTRG.7748.1	miR-6952-3p
MSTRG.7748.1	miR-3088-3p
MSTRG.7748.1	miR-876-5p
MSTRG.7748.1	miR-7043-3p
MSTRG.7748.1	miR-200a-3p
MSTRG.7748.1	miR-141-3p
MSTRG.7748.1	miR-6896-5p
MSTRG.7748.1	miR-5107-3p
MSTRG.7748.1	miR-7043-5p
MSTRG.7748.1	miR-27a-3p
MSTRG.7748.1	miR-496a-3p
MSTRG.7748.1	miR-1929-5p
MSTRG.7748.1	miR-489-3p
MSTRG.7748.1	miR-122-5p
MSTRG.7748.1	miR-146a-3p
MSTRG.7748.1	miR-3964
MSTRG.7748.1	miR-202-5p
MSTRG.7748.1	miR-653-5p
MSTRG.7748.1	miR-337-3p
MSTRG.7748.1	miR-183-3p
MSTRG.7748.1	miR-130a-5p
MSTRG.7748.1	miR-301b-5p
MSTRG.7748.1	miR-142b

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MSTRG.7748.1	miR-1968-5p
MSTRG.7748.1	miR-669b-3p
MSTRG.7748.1	miR-1b-5p
MSTRG.7748.1	miR-880-3p
MSTRG.7748.1	miR-470-5p
MSTRG.7748.1	miR-547-5p
MSTRG.7748.1	miR-124-5p
MSTRG.7748.1	miR-7048-3p
MSTRG.7748.1	miR-7037-3p
MSTRG.7748.1	miR-7015-5p
MSTRG.7748.1	miR-421-5p
MSTRG.7748.1	miR-6481
MSTRG.7748.1	miR-1231-3p
MSTRG.7748.1	miR-30e-5p
MSTRG.7748.1	miR-30b-5p
MSTRG.7748.1	miR-30a-5p
MSTRG.7748.1	miR-136-5p
MSTRG.7748.1	miR-1930-5p
MSTRG.7748.1	miR-7077-3p
MSTRG.7748.1	let-7c-1-3p
MSTRG.7748.1	miR-5620-3p
MSTRG.7748.1	miR-6537-5p
MSTRG.7748.1	miR-20a-3p
MSTRG.7748.1	miR-669m-5p
MSTRG.7748.1	miR-466m-5p
MSTRG.7748.1	miR-466j
MSTRG.7748.1	miR-466h-5p
MSTRG.7748.1	miR-9-5p
MSTRG.7748.1	miR-669d-3p
MSTRG.7748.1	miR-297c-3p
MSTRG.7748.1	miR-297b-3p
MSTRG.7748.1	miR-297a-3p
MSTRG.7748.1	miR-217-5p
MSTRG.7748.1	miR-290a-5p
MSTRG.7748.1	miR-1197-3p
MSTRG.7748.1	miR-5121
MSTRG.7748.1	miR-290b-5p
MSTRG.7748.1	miR-592-5p
MSTRG.7748.1	miR-344e-3p
MSTRG.7748.1	miR-3969
MSTRG.7748.1	miR-6942-5p
MSTRG.7748.1	miR-883a-3p
MSTRG.7748.1	miR-154-3p
MSTRG.7748.1	miR-7646-5p

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MSTRG.7748.1	miR-6985-5p
MSTRG.7748.1	miR-339-5p
MSTRG.7748.1	miR-679-5p
MSTRG.7748.1	miR-6987-3p
MSTRG.7748.1	miR-669m-3p
MSTRG.7748.1	miR-7056-5p
MSTRG.7748.1	miR-743b-3p
MSTRG.7748.1	miR-669h-5p
MSTRG.7748.1	miR-1936
MSTRG.7748.1	miR-22-5p
MSTRG.7748.1	miR-6912-5p
MSTRG.7748.1	miR-6986-5p
MSTRG.7748.1	miR-6925-3p
MSTRG.7748.1	miR-6951-5p
MSTRG.7748.1	miR-7649-3p
MSTRG.7748.1	miR-7237-3p
MSTRG.7748.1	miR-218-5p
MSTRG.7748.1	miR-324-5p
MSTRG.7748.1	miR-3074-1-3p
MSTRG.7748.1	miR-350-3p
MSTRG.7748.1	miR-8107
MSTRG.7748.1	miR-155-3p
MSTRG.7748.1	miR-6934-3p
MSTRG.7748.1	miR-3473a
MSTRG.7748.1	miR-6954-3p
MSTRG.7748.1	miR-340-5p
MSTRG.7748.1	miR-96-5p
MSTRG.7748.1	miR-3471
MSTRG.7748.1	miR-194-1-3p
MSTRG.7748.1	miR-6989-5p
MSTRG.18699.5	miR-216a-3p
MSTRG.18699.5	miR-187-5p
MSTRG.18699.5	miR-3108-5p
MSTRG.18699.5	miR-669m-5p
MSTRG.18699.5	miR-466m-5p
MSTRG.18699.5	miR-466j
MSTRG.18699.5	miR-466h-5p
MSTRG.18699.5	miR-340-5p
MSTRG.18699.5	miR-7674-3p
MSTRG.18699.5	miR-6481
MSTRG.18699.5	miR-6967-3p
MSTRG.18699.5	miR-466n-5p
MSTRG.18699.5	miR-1258-3p
MSTRG.18699.5	miR-376c-3p

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MSTRG.18699.5	miR-466f
MSTRG.18699.5	miR-544-3p
MSTRG.18699.5	miR-7661-5p
MSTRG.18699.5	miR-5126
MSTRG.18699.5	miR-709
MSTRG.18699.5	miR-6945-3p
MSTRG.18699.5	miR-6952-3p
MSTRG.18699.5	miR-155-3p
MSTRG.18699.5	miR-350-3p
MSTRG.18699.5	miR-6900-5p
MSTRG.18699.5	miR-301b-5p
MSTRG.18699.5	miR-744-5p
MSTRG.18699.5	miR-466i-5p
MSTRG.18699.5	miR-703
MSTRG.18699.5	miR-10b-5p
MSTRG.18699.5	miR-10a-5p
MSTRG.18699.5	miR-696
MSTRG.18699.5	miR-19b-3p
MSTRG.18699.5	miR-19a-3p
MSTRG.18699.5	miR-33-3p
MSTRG.18699.5	miR-7042-5p
MSTRG.18699.5	miR-339-5p
MSTRG.18699.5	miR-377-3p
MSTRG.18699.5	miR-338-3p
MSTRG.18699.5	miR-7049-5p
MSTRG.18699.5	miR-7222-3p
MSTRG.18699.5	miR-3473a
MSTRG.18699.5	miR-491-3p
MSTRG.18699.5	miR-1231-3p
MSTRG.18699.5	miR-3089-3p
MSTRG.18699.5	miR-429-3p
MSTRG.18699.5	miR-200c-3p
MSTRG.18699.5	miR-200b-3p
MSTRG.8598.3	miR-188-3p
MSTRG.8598.3	miR-3572-5p
MSTRG.8598.3	miR-3552
MSTRG.8598.3	miR-3066-5p
MSTRG.8598.3	miR-142a-5p
MSTRG.8598.3	miR-19b-3p
MSTRG.8598.3	miR-19a-3p
MSTRG.8598.3	miR-154-3p
MSTRG.8598.3	miR-216a-5p
MSTRG.8598.3	miR-27b-5p
MSTRG.8598.3	miR-141-5p

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MSTRG.8598.3	miR-6989-3p
MSTRG.8598.3	miR-670-3p
MSTRG.8598.3	miR-28b
MSTRG.8598.3	miR-20a-5p
MSTRG.8598.3	miR-106b-5p
MSTRG.8598.3	miR-93-5p
MSTRG.8598.3	miR-17-5p
MSTRG.8598.3	miR-106a-5p
MSTRG.8598.3	miR-217-5p
MSTRG.8598.3	miR-6395
MSTRG.8598.3	miR-30e-5p
MSTRG.8598.3	miR-30b-5p
MSTRG.8598.3	miR-30a-5p
MSTRG.8598.3	miR-6896-3p
MSTRG.8598.3	miR-1231-3p
MSTRG.8598.3	miR-324-5p

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**Table S4.** Correlated information of the upregulated lncRNA-associated ceRNA network in the cerebral cortex of 5×FAD mice.

Upregulated lncRNA	Downregulated miRNA	Upregulated mRNA
ENSMUST00000127786	miR-694, miR-329-3p, miR-5101, miR-669f-3p, miR-686, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-466n-3p, miR-335-3p, miR-466l-3p	Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Dzank1, Cct7, Prkcd, Clec7a, 5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Tmem175, Dcun1d1, Rin2, Zfp260, Zmym5, Hecw2, R3hdm2, Mgl1, Lin54, Gpr34
	miR-694, miR-466k, miR-669f-3p, miR-686, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-466n-3p, miR-335-3p, miR-466l-3p	Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Dzank1, Clcn3, Prkcd, Tmem175, Wscd1, Cdc42ep4, Clec7a, Mgl1, Rin2, 5730455P16Rik, Zfp260, Zmym5, Rnf165, Plek, Hecw2, Daam1, R3hdm2, Lin54, Gpr34
MSTRG.15393.1	miR-694, miR-466l-3p	Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Lin54
MSTRG.17500.2	miR-694, miR-329-3p, miR-466k, miR-5101, miR-686, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-466n-3p, miR-466l-3	Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Dzank1, Cct7, Prkcd, Clec7a, Clcn3, Tmem175, Wscd1, Cdc42ep4, Mgl1, Rin2, 5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Dcun1d1, R3hdm2, Zmym5, Lin54, Hecw2
	miR-694, miR-329-3p, miR-466k, miR-5101, miR-669f-3p, miR-686, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-466n-3p, miR-335-3p, miR-466l-3p	Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Dzank1, Cct7, Prkcd, Clec7a, Clcn3, Tmem175, Wscd1, Cdc42ep4, Mgl1, Rin2, 5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Dcun1d1, Zfp260, Zmym5, Hecw2, R3hdm2, Lin54, Gpr34
MSTRG.12843.10		

		Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Dzank1, Clcn3, Prkcd, Tmem175, Wscd1, Cdc42ep4, Clec7a, Mgl1, Rin2, 5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Dcun1d1, Zfp260, Zmym5, Hecw2, R3hdm2, Lin54, Gpr34
MSTRG.3640.2	miR-694, miR-466k, miR-5101, miR-669f-3p, miR-686, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-466n-3p, miR-335-3p, miR-466l-3p	Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Dzank1, Clcn3, Prkcd, Tmem175, Wscd1, Cdc42ep4, Clec7a, Mgl1, Rin2, 5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Dcun1d1, Zfp260, Zmym5, Hecw2, R3hdm2, Lin54, Gpr34
MSTRG.3877.7	miR-694, miR-466k, miR-5101, miR-335-3p	Pex19, AW554918, Rnf24, P2ry13, Eph4, Arnt2, Lpl, Dzank1, Clcn3, Prkcd, Tmem175, Wscd1, Cdc42ep4, Clec7a, Mgl1, Rin2, 5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Dcun1d1, Hecw2, Gpr34
ENSMUST00000182231	miR-329-3p	Dzank1, Cct7, Eph4, Prkcd, Clec7a
ENSMUST00000155277	miR-329-3p, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-466n-3p	Dzank1, Cct7, Eph4, Prkcd, Clec7a, Zmym5, Lin54, Hecw2
MSTRG.1243.32	miR-329-3p, miR-5101, miR-669f-3p, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-466n-3p, miR-335-3p	Dzank1, Cct7, Eph4, Prkcd, Clec7a, 5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Tmem175, Dcun1d1, Lpl, Rin2, Zfp260, Zmym5, Hecw2, Lin54, Gpr34
MSTRG.16327.2	miR-466k	Dzank1, Eph4, Clcn3, Prkcd, Tmem175, Wscd1, Cdc42ep4, Clec7a, Mgl1, Rin2
ENSMUST00000126335	miR-5101	5730455P16Rik, Tbccl, Rnf165, Brd8, Plek, Eif2s2, Daam1, Tmem175, Dcun1d1, Lpl, Rin2
ENSMUST00000189564	miR-669f-3p, miR-335-3p	5730455P16Rik, Zfp260, Zmym5, Rnf165, Plek, Hecw2, Prkcd, Gpr34, Eph4, Tmem175
ENSMUST00000111019	miR-669f-3p, miR-686, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-335-3p	5730455P16Rik, Zfp260, Zmym5, Rnf165, Plek, Hecw2, Prkcd, Daam1, R3hdm2, Mgl1, Lin54, Gpr34, Eph4, Tmem175
ENSMUST00000205779	miR-686	5730455P16Rik, Daam1, R3hdm2, Mgl1



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ENSMUST00000221971	miR-466a-3p, miR-466d-3p, miR-466e-3p	Zmym5, Lin54, Hecw2, Prkcd
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**Table S5.** Correlated information of the downregulated lncRNA-associated ceRNA network in the cerebral cortex of 5×FAD mice.

Downregulated lncRNA	Upregulated miRNA	Downregulated mRNA
ENSMUST00000145741	miR-19b-3p, miR-743b-3p	Dpp6, Zcchc2, Hecw2, Npnt, Daam1, Tardbp, Hnrnpa3, Ttc14, Tmem175, Dcun1d1
MSTRG.18699.5	miR-19b-3p, miR-340-5p, miR-339-5p, miR-466i-5p	Dpp6, Zcchc2, Hecw2, Npnt, Daam1, Tardbp, R3hdm2, Brsk2, Slc4a10, Ank3, Delk1, Slc1a2, Tmem175, Zfp68
MSTRG.8598.3	miR-19b-3p	Dpp6, Zcchc2, Hecw2, Npnt, Daam1
MSTRG.17500.1	miR-340-5p, miR-466i-5p	Tardbp, Npnt, R3hdm2, Brsk2, Slc4a10, Ank3, Slc1a2, Tmem175, Zfp68
MSTRG.7748.1	miR-340-5p, miR-743b-3p, miR-339-5p, miR-337-3p, miR-466i-5p	Tardbp, Npnt, R3hdm2, Brsk2, Slc4a10, Ank3, Hnrnpa3, Ttc14, Tmem175, Dcun1d1, Delk1, Slc1a2, Zfp68
ENSMUST00000184170	miR-743b-3p, miR-214-3p	Tardbp, Hnrnpa3, Ttc14, Tmem175, Dcun1d1, Klc1
ENSMUST00000141357	miR-743b-3p, miR-339-5p, miR-337-3p	Tardbp, Hnrnpa3, Ttc14, Tmem175, Dcun1d1, Delk1, Slc1a2
ENSMUST00000182451	miR-666-3p	Hnrnpa3, Akt2, Sulf2
ENSMUST00000161637	miR-666-3p, miR-337-3p	Hnrnpa3, Akt2, Sulf2, Slc1a2
ENSMUST00000129857	miR-666-3p, miR-337-3p	Hnrnpa3, Akt2, Sulf2, Slc1a2
ENSMUST00000199237	miR-666-3p	Hnrnpa3, Akt2, Sulf2
ENSMUST00000162401	miR-337-3p, miR-214-3p	Slc1a2, Klc1
ENSMUST00000141539	miR-214-3p	Klc1

**Table S6.** Information of the upregulated lncRNA-miRNA network in the hippocampus of 7-month-old 5×FAD mice.

Upregulated lncRNA	miRNA targets
ENSMUST00000180635	miR-3059-5p
ENSMUST00000180635	miR-1943-5p
ENSMUST00000180635	miR-7016-5p
ENSMUST00000180635	miR-3089-5p
ENSMUST00000180635	miR-330-5p
ENSMUST00000180635	miR-6915-5p
ENSMUST00000180635	miR-540-3p
ENSMUST00000180635	miR-1934-3p
ENSMUST00000180635	miR-505-5p
ENSMUST00000180635	miR-344g-5p
ENSMUST00000180635	miR-344d-1-5p
ENSMUST00000180635	miR-344d-3-5p
ENSMUST00000180635	miR-344-5p
ENSMUST00000180635	miR-3076-5p
ENSMUST00000180635	miR-7058-3p
ENSMUST00000180635	miR-669p-5p
ENSMUST00000180635	miR-31-5p
ENSMUST00000180635	miR-3072-5p
ENSMUST00000180635	miR-3068-5p
ENSMUST00000180635	miR-7055-5p
ENSMUST00000180635	miR-6979-3p
ENSMUST00000180635	miR-6918-5p
ENSMUST00000180635	miR-7687-5p
ENSMUST00000180635	miR-7231-5p
ENSMUST00000180635	miR-7029-5p
ENSMUST00000180635	miR-1968-3p
ENSMUST00000180635	miR-668-3p
ENSMUST00000180635	miR-6975-3p
ENSMUST00000180635	miR-698-5p
ENSMUST00000180635	miR-7036a-3p
ENSMUST00000180635	miR-3069-5p
ENSMUST00000180635	miR-335-3p
ENSMUST00000180635	miR-6936-5p
ENSMUST00000180635	miR-5128
ENSMUST00000180635	miR-1964-5p
ENSMUST00000180635	miR-6896-3p
ENSMUST00000180635	miR-664-5p
ENSMUST00000180635	miR-6987-5p
ENSMUST00000180635	miR-7115-5p
ENSMUST00000180635	miR-7093-5p
ENSMUST00000180635	miR-674-3p

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ENSMUST00000180635	miR-3085-3p
ENSMUST00000180635	miR-193a-5p
ENSMUST00000180635	miR-3064-5p
ENSMUST00000197854	miR-1955-5p
ENSMUST00000197854	miR-760-3p
ENSMUST00000197854	miR-3084-3p
ENSMUST00000197854	miR-302b-3p
ENSMUST00000197854	miR-140-5p
ENSMUST00000197854	miR-330-5p
ENSMUST00000197854	miR-673-5p
ENSMUST00000197854	miR-7a-5p
ENSMUST00000197854	miR-7b-5p
ENSMUST00000197854	miR-674-3p
ENSMUST00000197854	miR-488-3p
ENSMUST00000197854	miR-181b-5p
ENSMUST00000197854	miR-3102-3p
ENSMUST00000197854	miR-485-5p
ENSMUST00000197854	miR-1943-5p
ENSMUST00000197854	miR-7016-5p
ENSMUST00000197854	miR-3109-5p
ENSMUST00000197854	miR-5617-3p
ENSMUST00000197854	miR-7214-5p
ENSMUST00000197854	miR-3154
ENSMUST00000197854	miR-5619-3p
ENSMUST00000197854	miR-7037-5p
ENSMUST00000197854	miR-137-3p
ENSMUST00000197854	miR-7015-3p
ENSMUST00000127786	miR-1198-5p
ENSMUST00000127786	miR-27b-3p
ENSMUST00000127786	miR-758-3p
ENSMUST00000127786	miR-6540-5p
ENSMUST00000127786	miR-23a-3p
ENSMUST00000127786	miR-23b-3p
ENSMUST00000127786	miR-145b
ENSMUST00000127786	miR-145a-5p
ENSMUST00000127786	miR-300-3p
ENSMUST00000127786	miR-505-5p
ENSMUST00000127786	miR-362-5p
ENSMUST00000127786	miR-302b-3p
ENSMUST00000127786	miR-221-3p
ENSMUST00000127786	miR-222-3p
ENSMUST00000127786	miR-26a-5p
ENSMUST00000127786	miR-140-5p
ENSMUST00000127786	miR-338-5p

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ENSMUST00000127786	let-7i-5p
ENSMUST00000127786	let-7d-5p
ENSMUST00000127786	let-7a-5p
ENSMUST00000127786	let-7e-5p
ENSMUST00000127786	let-7f-5p
ENSMUST00000127786	miR-98-5p
ENSMUST00000127786	let-7g-5p
ENSMUST00000127786	miR-664-3p
ENSMUST00000127786	miR-384-3p
ENSMUST00000127786	miR-501-3p
ENSMUST00000127786	miR-3064-5p
ENSMUST00000127786	miR-3085-3p
ENSMUST00000127786	miR-664-5p
ENSMUST00000127786	miR-137-3p
ENSMUST00000127786	miR-3098-5p
ENSMUST00000127786	miR-1943-5p
ENSMUST00000127786	miR-7016-5p
ENSMUST00000127786	miR-344d-1-5p
ENSMUST00000127786	miR-344d-3-5p
ENSMUST00000127786	miR-344g-5p
ENSMUST00000127786	miR-450a-2-3p
ENSMUST00000127786	miR-471-5p
ENSMUST00000127786	miR-470-5p
ENSMUST00000127786	miR-3059-5p
ENSMUST00000127786	miR-342-3p
ENSMUST00000127786	miR-377-3p
ENSMUST00000127786	miR-425-5p
ENSMUST00000127786	miR-489-3p
ENSMUST00000127786	miR-493-5p
ENSMUST00000127786	miR-466b-3p
ENSMUST00000127786	miR-466c-3p
ENSMUST00000127786	miR-466p-3p
ENSMUST00000127786	miR-466m-3p
ENSMUST00000127786	miR-466o-3p
ENSMUST00000127786	miR-494-3p
ENSMUST00000127786	miR-539-5p
ENSMUST00000127786	miR-411-3p
ENSMUST00000127786	miR-379-3p
ENSMUST00000127786	miR-186-5p
ENSMUST00000127786	miR-344-5p
ENSMUST00000127786	miR-340-5p
ENSMUST00000127786	miR-9-3p
ENSMUST00000127786	miR-148a-3p
ENSMUST00000127786	miR-148b-3p

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ENSMUST00000127786	miR-30a-5p
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ENSMUST00000127786	miR-30d-5p
ENSMUST00000127786	miR-30c-5p
ENSMUST00000127786	miR-384-5p
ENSMUST00000127786	miR-185-5p
ENSMUST00000127786	miR-331-3p
ENSMUST00000127786	miR-146b-5p
ENSMUST00000127786	miR-31-5p
ENSMUST00000127786	miR-1971
ENSMUST00000127786	miR-1981-5p
ENSMUST00000127786	miR-1933-3p
ENSMUST00000127786	miR-29b-3p
ENSMUST00000127786	miR-29a-3p
ENSMUST00000127786	miR-466d-3p
ENSMUST00000127786	miR-467g
ENSMUST00000127786	miR-466a-3p
ENSMUST00000127786	miR-466e-3p
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ENSMUST00000127786	miR-486a-5p
ENSMUST00000127786	miR-486b-5p
ENSMUST00000127786	miR-191-5p
ENSMUST00000127786	miR-106a-5p
ENSMUST00000127786	miR-20a-5p
ENSMUST00000127786	miR-7a-5p
ENSMUST00000127786	miR-7b-5p
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ENSMUST00000127786	miR-19b-3p
ENSMUST00000127786	miR-19a-3p
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ENSMUST00000127786	miR-679-3p
ENSMUST00000127786	miR-582-5p
ENSMUST00000127786	miR-350-5p
ENSMUST00000127786	miR-3093-3p
ENSMUST00000127786	miR-329-5p
ENSMUST00000127786	miR-3083-5p
ENSMUST00000127786	miR-346-3p
ENSMUST00000127786	miR-361-5p
ENSMUST00000127786	miR-127-3p

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ENSMUST00000127786	miR-329-3p
ENSMUST00000127786	miR-3078-5p
ENSMUST00000127786	miR-15b-5p
ENSMUST00000127786	miR-322-5p
ENSMUST00000127786	miR-1197-3p
ENSMUST00000127786	miR-6919-5p
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ENSMUST00000127786	miR-3473d
ENSMUST00000127786	miR-6984-5p
ENSMUST00000127786	miR-665-5p
ENSMUST00000127786	miR-7092-3p
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ENSMUST00000127786	miR-383-3p
ENSMUST00000127786	miR-1948-5p
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ENSMUST00000127786	miR-129b-3p
ENSMUST00000127786	miR-1191b-5p
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ENSMUST00000127786	miR-6539

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ENSMUST00000127786	miR-7226-3p
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ENSMUST00000127786	miR-299a-5p
ENSMUST00000127786	miR-8111
ENSMUST00000127786	miR-344d-2-5p
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ENSMUST00000127786	miR-3475-3p
ENSMUST00000127786	miR-7015-3p
ENSMUST00000127786	miR-3112-5p
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ENSMUST00000127786	miR-669e-5p
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ENSMUST00000127786	miR-7116-3p
ENSMUST00000127786	miR-7013-5p

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ENSMUST00000127786	miR-187-5p
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ENSMUST00000127786	miR-344c-3p
ENSMUST00000127786	miR-874-3p
ENSMUST00000127786	miR-216b-5p
ENSMUST00000127786	miR-21a-3p
ENSMUST00000127786	miR-1983
ENSMUST00000127786	miR-6902-3p
ENSMUST00000127786	miR-411-5p
ENSMUST00000127786	miR-181b-5p
ENSMUST00000127786	miR-222-5p
ENSMUST00000127786	miR-6911-3p
ENSMUST00000127786	miR-412-3p
ENSMUST00000127786	miR-7682-3p
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ENSMUST00000127786	miR-328-3p
ENSMUST00000127786	miR-7038-3p
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ENSMUST00000127786	miR-6991-5p
ENSMUST00000127786	miR-344-3p
ENSMUST00000127786	miR-344d-3p
ENSMUST00000127786	miR-203-5p
ENSMUST00000127786	miR-1b-5p
ENSMUST00000127786	miR-7115-3p
ENSMUST00000127786	miR-201-3p
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MSTRG.1243.32	miR-7027-5p
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MSTRG.1243.32	miR-383-3p
MSTRG.1243.32	miR-6946-3p
MSTRG.1243.32	miR-504-3p
MSTRG.1243.32	miR-6958-3p
MSTRG.1243.32	miR-30c-2-3p
MSTRG.1243.32	miR-7116-3p
MSTRG.1243.32	miR-7b-5p
MSTRG.1243.32	miR-7a-5p
MSTRG.1243.32	miR-187-5p
MSTRG.1243.32	miR-1194
MSTRG.1243.32	miR-7669-5p
MSTRG.1243.32	miR-7015-5p
MSTRG.1243.32	miR-7115-3p
MSTRG.1243.32	miR-702-5p
MSTRG.1243.32	miR-335-3p
MSTRG.1243.32	miR-6902-3p
MSTRG.1243.32	miR-760-5p
MSTRG.1243.32	miR-501-5p
MSTRG.1243.32	miR-128-3p
MSTRG.1243.32	miR-6539
MSTRG.1243.32	miR-664-3p
MSTRG.1243.32	miR-743b-3p
MSTRG.1243.32	miR-488-3p
MSTRG.1243.32	miR-6983-5p

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MSTRG.1243.32	miR-551b-5p
MSTRG.1243.32	miR-3068-5p
MSTRG.1243.32	miR-6911-5p
MSTRG.1243.32	miR-7055-5p
MSTRG.1243.32	miR-874-3p
MSTRG.1243.32	miR-8113
MSTRG.1243.32	miR-7012-5p
MSTRG.1243.32	miR-412-3p
MSTRG.1243.32	miR-148b-3p
MSTRG.1243.32	miR-148a-3p
MSTRG.1243.32	miR-7668-5p
MSTRG.1243.32	miR-330-5p
MSTRG.1243.32	miR-338-3p
MSTRG.1243.32	miR-1983
MSTRG.1243.32	miR-7081-3p
MSTRG.1243.32	miR-219a-1-3p
MSTRG.1243.32	miR-6901-5p
MSTRG.1243.32	miR-222-5p
MSTRG.1243.32	miR-365-3p
MSTRG.1243.32	miR-7043-3p
MSTRG.1243.32	miR-1981-3p
MSTRG.1243.32	miR-7018-3p
MSTRG.1243.32	miR-3090-3p
MSTRG.1243.32	miR-539-5p
MSTRG.1243.32	miR-129b-3p
MSTRG.1243.32	miR-495-5p
MSTRG.1243.32	miR-3082-3p
MSTRG.1243.32	miR-186-5p
MSTRG.1243.32	miR-1291
MSTRG.1243.32	let-7f-2-3p
MSTRG.1243.32	miR-7227-3p
MSTRG.1243.32	miR-679-5p
MSTRG.1243.32	miR-6991-5p
MSTRG.1243.32	miR-1668
MSTRG.1243.32	miR-673-5p
MSTRG.1243.32	miR-6918-5p
MSTRG.1243.32	miR-345-3p
MSTRG.1243.32	miR-139-5p
MSTRG.1243.32	miR-7651-5p
MSTRG.1243.32	miR-330-3p
MSTRG.1243.32	miR-298-3p
MSTRG.1243.32	miR-7665-5p

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**Table S7.** Information of the downregulated lncRNA-miRNA network in the hippocampus of 7-month-old 5×FAD mice.

Downregulated lncRNA	miRNA targets
ENSMUST00000184170	miR-743a-3p
ENSMUST00000184170	miR-669b-5p
ENSMUST00000184170	miR-214-3p
ENSMUST00000184170	miR-3079-3p
ENSMUST00000184170	miR-24-3p
ENSMUST00000184170	miR-3060-3p
ENSMUST00000184170	miR-195a-5p
ENSMUST00000184170	miR-6419
ENSMUST00000184170	miR-15a-5p
ENSMUST00000184170	miR-16-5p
ENSMUST00000184170	miR-497a-5p
ENSMUST00000184170	miR-195b
ENSMUST00000184170	miR-3065-5p
ENSMUST00000184170	miR-193a-3p
ENSMUST00000184170	miR-193b-3p
ENSMUST00000184170	miR-465a-3p
ENSMUST00000184170	miR-465b-3p
ENSMUST00000184170	miR-465c-3p
ENSMUST00000184170	miR-18a-5p
ENSMUST00000184170	miR-7010-5p
ENSMUST00000184170	miR-7075-5p
ENSMUST00000184170	miR-8120
ENSMUST00000184170	miR-127-5p
ENSMUST00000184170	miR-7211-3p
ENSMUST00000184170	miR-151-5p
ENSMUST00000197200	miR-7008-3p
ENSMUST00000197200	miR-5101
ENSMUST00000197200	miR-6715-5p
ENSMUST00000197200	miR-320-3p
ENSMUST00000197200	miR-3093-5p
ENSMUST00000197200	miR-3470b
ENSMUST00000197200	miR-6384
ENSMUST00000197200	miR-6986-5p
ENSMUST00000197200	miR-7000-3p
ENSMUST00000197200	miR-5616-5p
ENSMUST00000197200	miR-7674-5p
ENSMUST00000197200	miR-669b-5p
ENSMUST00000197200	miR-7010-5p
ENSMUST00000197200	miR-6922-3p
ENSMUST00000197200	miR-6971-3p
ENSMUST00000197200	miR-6964-3p

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ENSMUST00000197200	miR-6999-3p
ENSMUST00000197200	miR-143-3p
ENSMUST00000197200	miR-6928-3p
ENSMUST00000197200	miR-124-3p
ENSMUST00000197200	miR-224-5p
ENSMUST00000197200	miR-3572-3p
ENSMUST00000197200	miR-1231-5p
ENSMUST00000197200	miR-150-5p
ENSMUST00000197200	miR-146b-3p
ENSMUST00000197200	miR-7237-3p
ENSMUST00000197200	miR-6920-5p
ENSMUST00000197200	miR-5107-3p
ENSMUST00000197200	miR-5106
ENSMUST00000197200	miR-7056-5p
ENSMUST00000197200	miR-7061-5p
ENSMUST00000197200	miR-6996-5p
ENSMUST00000197200	miR-6769b-5p
ENSMUST00000197200	miR-7024-3p
ENSMUST00000197200	miR-3113-5p
ENSMUST00000197200	miR-5710
ENSMUST00000197200	miR-3079-5p
ENSMUST00000197200	miR-7649-3p
ENSMUST00000197200	miR-672-3p
ENSMUST00000197200	miR-3084-5p
ENSMUST00000197200	miR-3473f
ENSMUST00000197200	miR-7042-5p
ENSMUST00000197200	miR-1946a
ENSMUST00000197200	miR-7022-5p
ENSMUST00000197200	miR-8103
ENSMUST00000197200	miR-7087-5p
ENSMUST00000197200	miR-6998-5p
ENSMUST00000197200	miR-6947-5p
ENSMUST00000197200	miR-7066-3p
ENSMUST00000197200	miR-6516-3p
ENSMUST00000197200	miR-362-3p
ENSMUST00000197200	miR-6932-3p
ENSMUST00000197200	miR-6941-3p
ENSMUST00000197200	miR-6937-5p
ENSMUST00000197200	miR-3474
ENSMUST00000197200	miR-1934-5p
ENSMUST00000197200	miR-191-3p
ENSMUST00000197200	miR-5621-5p
ENSMUST00000197200	miR-7664-3p
ENSMUST00000197200	miR-1941-5p

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ENSMUST00000197200	miR-6898-3p
ENSMUST00000197200	miR-7031-3p
ENSMUST00000197200	miR-25-3p
ENSMUST00000197200	miR-3100-5p
ENSMUST00000197200	miR-6985-5p
ENSMUST00000197200	miR-300-5p
ENSMUST00000197200	miR-103-1-5p
ENSMUST00000197200	miR-103-2-5p
ENSMUST00000197200	miR-136-5p
ENSMUST00000197200	miR-483-3p
ENSMUST00000197200	miR-7051-5p
ENSMUST00000197200	miR-205-5p
ENSMUST00000125930	miR-26a-2-3p
ENSMUST00000125930	miR-26b-3p
ENSMUST00000125930	miR-6964-3p
ENSMUST00000125930	miR-6935-3p
ENSMUST00000182575	miR-669c-3p
ENSMUST00000182575	miR-7649-3p
ENSMUST00000182575	miR-7073-5p
ENSMUST00000182575	miR-6925-5p
ENSMUST00000182575	miR-3473g
ENSMUST00000182575	miR-499-5p
ENSMUST00000182575	miR-323-5p
ENSMUST00000182575	miR-877-3p
ENSMUST00000182575	miR-448-3p
ENSMUST00000182575	miR-671-3p
ENSMUST00000182575	miR-1188-5p
ENSMUST00000182575	miR-3113-5p
ENSMUST00000182575	miR-6540-3p
ENSMUST00000182575	miR-6901-3p
ENSMUST00000182575	miR-7048-5p
ENSMUST00000182575	miR-185-3p
ENSMUST00000182575	let-7g-3p
ENSMUST00000182575	miR-3065-5p
ENSMUST00000182575	miR-181b-2-3p
ENSMUST00000182575	miR-181b-1-3p
ENSMUST00000182575	miR-7008-5p
ENSMUST00000182575	miR-3473e
ENSMUST00000182575	miR-3473b
ENSMUST00000182575	miR-6998-3p
ENSMUST00000182575	miR-25-5p
ENSMUST00000182575	miR-7017-5p
ENSMUST00000119305	miR-7054-3p
ENSMUST00000119305	miR-107-3p

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ENSMUST00000119305	miR-30b-5p
ENSMUST00000119305	miR-3113-5p
ENSMUST00000119305	miR-7047-3p
ENSMUST00000119305	miR-30c-1-3p
ENSMUST00000119305	miR-547-5p
ENSMUST00000218432	miR-486b-3p
ENSMUST00000218432	miR-486a-3p
ENSMUST00000218432	miR-6996-5p
ENSMUST00000218432	miR-1930-3p
ENSMUST00000218432	miR-143-5p
ENSMUST00000218432	miR-7688-5p
ENSMUST00000138202	miR-191-3p
ENSMUST00000138202	miR-466l-3p
ENSMUST00000138202	miR-34a-3p
ENSMUST00000138202	miR-7075-5p
ENSMUST00000138202	miR-216b-3p
ENSMUST00000138202	miR-24-3p
ENSMUST00000138202	miR-7032-3p
ENSMUST00000138202	miR-466o-5p
ENSMUST00000138202	miR-466b-5p
ENSMUST00000138202	miR-670-5p
ENSMUST00000138202	miR-31-3p
ENSMUST00000138202	miR-7019-3p
ENSMUST00000138202	miR-378a-5p
ENSMUST00000138202	miR-3074-5p
ENSMUST00000138202	miR-7021-3p
ENSMUST00000138202	miR-6481
ENSMUST00000138202	miR-8103
ENSMUST00000138202	miR-18a-3p
ENSMUST00000138202	miR-7047-5p
ENSMUST00000138202	miR-7679-5p
ENSMUST00000138202	miR-3058-5p
ENSMUST00000138202	miR-6950-3p
ENSMUST00000182642	miR-20b-3p
ENSMUST00000182642	miR-17-3p
ENSMUST00000182642	miR-296-5p
ENSMUST00000182642	miR-5621-5p
ENSMUST00000182642	miR-103-2-5p
ENSMUST00000182642	miR-103-1-5p
ENSMUST00000182642	miR-351-3p
ENSMUST00000182642	miR-7674-5p
ENSMUST00000182642	miR-324-3p
ENSMUST00000182642	miR-378d
ENSMUST00000182642	miR-7021-3p

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ENSMUST00000182642	miR-7659-5p
ENSMUST00000182642	miR-666-3p
ENSMUST00000182642	miR-6540-3p
ENSMUST00000182642	miR-466f-3p
ENSMUST00000182642	miR-7004-5p
ENSMUST00000182642	miR-669c-3p
ENSMUST00000182642	miR-6909-5p
ENSMUST00000162088	miR-669c-3p
ENSMUST00000162088	miR-7021-3p
ENSMUST00000162088	miR-744-3p
ENSMUST00000162088	miR-7679-5p
ENSMUST00000162088	miR-216a-5p
ENSMUST00000162088	miR-6419
ENSMUST00000162088	miR-195b
ENSMUST00000162088	miR-195a-5p
ENSMUST00000162088	miR-16-5p
ENSMUST00000162088	miR-15a-5p
ENSMUST00000162088	miR-324-5p
ENSMUST00000162088	miR-497a-5p
ENSMUST00000162088	miR-6984-3p
ENSMUST00000162088	miR-1961
ENSMUST00000162088	miR-127-5p
ENSMUST00000162088	miR-3964
ENSMUST00000203561	miR-503-5p
ENSMUST00000203561	miR-6921-3p
ENSMUST00000203561	miR-148a-5p
ENSMUST00000203561	miR-21b
ENSMUST00000203561	miR-26b-5p
ENSMUST00000203561	miR-669c-3p
ENSMUST00000203561	miR-126a-5p
ENSMUST00000203561	miR-8118
ENSMUST00000203561	miR-672-3p
ENSMUST00000203561	miR-7010-5p
ENSMUST00000203561	miR-7048-3p
ENSMUST00000203561	miR-3471
ENSMUST00000203561	miR-1954
ENSMUST00000203561	miR-5616-5p
ENSMUST00000203561	miR-298-5p
ENSMUST00000203561	miR-6997-5p
ENSMUST00000203561	miR-15a-5p
ENSMUST00000126582	miR-8103
ENSMUST00000126344	miR-7017-5p
ENSMUST00000126344	miR-7032-3p
ENSMUST00000126344	miR-7008-3p

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ENSMUST00000126344	miR-743a-3p
ENSMUST00000126344	miR-5616-5p
ENSMUST00000126344	miR-146a-5p
ENSMUST00000126344	miR-5107-3p
ENSMUST00000126344	miR-3110-5p
ENSMUST00000126344	miR-6925-5p
ENSMUST00000126344	miR-34a-3p
ENSMUST00000168634	miR-188-3p
ENSMUST00000168634	miR-7022-5p
ENSMUST00000168634	miR-3474
ENSMUST00000168634	miR-7008-3p
ENSMUST00000151020	miR-302c-3p
ENSMUST00000151020	miR-204-3p
ENSMUST00000151020	miR-5101
ENSMUST00000151020	miR-149-5p
ENSMUST00000151020	miR-1264-5p
ENSMUST00000151020	miR-296-5p
ENSMUST00000151020	miR-4661-3p
ENSMUST00000151020	miR-326-3p
ENSMUST00000151020	miR-490-5p
ENSMUST00000151020	miR-199b-5p
ENSMUST00000151020	miR-199a-5p
ENSMUST00000151020	miR-3106-5p
ENSMUST00000151020	miR-27a-3p
ENSMUST00000151020	miR-7056-5p
ENSMUST00000151020	miR-669e-3p
ENSMUST00000151020	miR-339-5p
ENSMUST00000151020	miR-497a-3p
ENSMUST00000151020	miR-375-3p
ENSMUST00000151020	miR-7022-5p
ENSMUST00000151020	miR-6967-5p
ENSMUST00000151020	miR-7037-3p
ENSMUST00000151020	miR-7649-3p
ENSMUST00000151020	miR-130a-5p
ENSMUST00000151020	miR-6392-5p
ENSMUST00000151020	miR-7025-3p
ENSMUST00000134954	miR-6985-5p
ENSMUST00000134954	miR-5624-3p
ENSMUST00000134954	miR-669c-3p
ENSMUST00000134954	miR-669e-3p
ENSMUST00000134954	miR-214-3p
ENSMUST00000218286	miR-195b
ENSMUST00000218286	miR-195a-5p
ENSMUST00000218286	miR-16-5p

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ENSMUST00000218286	miR-15a-5p
ENSMUST00000218286	miR-3474
ENSMUST00000218286	miR-6419
ENSMUST00000218286	miR-497a-5p
ENSMUST00000218286	miR-24-3p
ENSMUST00000218286	miR-700-5p
ENSMUST00000218286	miR-107-3p
ENSMUST00000218286	miR-6910-3p
ENSMUST00000218286	miR-490-5p
ENSMUST00000185523	miR-1954
ENSMUST00000185523	miR-3101-3p
ENSMUST00000185523	miR-3966
ENSMUST00000185523	miR-3095-5p
ENSMUST00000131037	miR-3075-5p
ENSMUST00000131037	miR-3552
ENSMUST00000131037	miR-449a-5p
ENSMUST00000131037	miR-34a-5p
ENSMUST00000131037	miR-7656-3p
ENSMUST00000131037	miR-449c-5p
ENSMUST00000131037	miR-449b
ENSMUST00000131037	miR-34c-5p
ENSMUST00000131037	miR-34b-5p
ENSMUST00000131037	miR-7213-5p
ENSMUST00000131037	miR-7679-5p
ENSMUST00000131037	miR-149-5p
ENSMUST00000131037	miR-3473e
ENSMUST00000131037	miR-3473b
ENSMUST00000131037	miR-652-3p
ENSMUST00000131037	miR-666-3p
ENSMUST00000173081	miR-1231-5p
ENSMUST00000173081	miR-6903-3p
ENSMUST00000173081	miR-205-5p
ENSMUST00000173081	miR-125a-3p
ENSMUST00000173081	miR-743a-3p
ENSMUST00000173081	miR-6982-3p
ENSMUST00000173081	miR-6950-3p
ENSMUST00000173081	miR-3113-5p
ENSMUST00000173081	miR-500-5p
ENSMUST00000173081	miR-6935-3p
ENSMUST00000173081	miR-466i-5p
ENSMUST00000173081	miR-466d-5p
ENSMUST00000173081	miR-20b-3p
ENSMUST00000173081	miR-17-3p
ENSMUST00000173081	miR-5621-5p

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ENSMUST00000173081	miR-6984-3p
ENSMUST00000199803	miR-8118
ENSMUST00000199803	miR-6925-5p
ENSMUST00000199803	miR-448-3p
ENSMUST00000199803	miR-33-5p
ENSMUST00000199803	let-7b-3p
ENSMUST00000199803	miR-6985-3p
ENSMUST00000199803	miR-7034-3p
ENSMUST00000199803	miR-6944-5p
ENSMUST00000199803	miR-211-5p
ENSMUST00000199803	miR-204-5p
ENSMUST00000199803	miR-152-3p
ENSMUST00000199803	miR-1960
ENSMUST00000199803	miR-466i-3p
ENSMUST00000199803	miR-466l-3p
ENSMUST00000199803	miR-188-5p
ENSMUST00000199803	miR-669f-3p
ENSMUST00000199803	miR-669b-3p
ENSMUST00000199803	miR-467a-3p
ENSMUST00000199803	miR-6910-3p
ENSMUST00000199803	miR-322-3p
ENSMUST00000199803	miR-7051-5p
ENSMUST00000199803	miR-669c-3p
ENSMUST00000199803	miR-8097
ENSMUST00000199803	miR-487b-3p
ENSMUST00000220428	miR-3966
ENSMUST00000220428	miR-6922-3p
MSTRG.2483.2	miR-7037-3p
MSTRG.2483.2	miR-7213-5p
MSTRG.2483.2	miR-486b-3p
MSTRG.2483.2	miR-486a-3p
MSTRG.2483.2	miR-326-3p
MSTRG.2483.2	miR-22-3p
MSTRG.2483.2	miR-7674-5p
MSTRG.2483.2	miR-3110-5p
MSTRG.2483.2	miR-7021-3p
MSTRG.2483.2	miR-149-5p
MSTRG.2483.2	miR-7008-5p
MSTRG.2483.2	miR-24-3p
MSTRG.2483.2	miR-7062-5p
MSTRG.2483.2	miR-135a-1-3p
MSTRG.2483.2	miR-7009-3p
MSTRG.2483.2	miR-324-5p
MSTRG.2483.2	miR-18a-5p

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MSTRG.2483.2	miR-143-3p
MSTRG.2483.2	miR-669c-3p
MSTRG.2483.2	miR-1949
MSTRG.2483.2	miR-764-3p
MSTRG.2483.2	miR-7075-5p
MSTRG.2483.2	miR-344c-5p
MSTRG.2483.2	miR-211-5p
MSTRG.2483.2	miR-204-5p
MSTRG.2483.2	miR-3102-3p.2-3p
MSTRG.2483.2	miR-6973b-3p
MSTRG.2483.2	miR-138-2-3p
MSTRG.2483.2	miR-1258-3p
MSTRG.2483.2	miR-6985-3p
MSTRG.2483.2	miR-878-5p
MSTRG.2483.2	miR-7649-3p
MSTRG.2483.2	miR-3470a
MSTRG.2483.2	miR-214-3p
MSTRG.2483.2	miR-483-3p
MSTRG.2483.2	miR-6715-5p
MSTRG.2483.2	miR-3095-5p
MSTRG.2483.2	miR-6997-5p
MSTRG.2483.2	miR-8097
MSTRG.2483.2	miR-7024-3p
MSTRG.2483.2	miR-3470b
MSTRG.2483.2	miR-665-3p
MSTRG.2483.2	miR-452-3p
MSTRG.2483.2	miR-27a-3p
MSTRG.2483.2	miR-3093-5p
MSTRG.2483.2	miR-136-5p
MSTRG.2483.2	miR-878-3p
MSTRG.2483.2	miR-670-3p
MSTRG.2483.2	miR-5125
MSTRG.2483.2	miR-378a-5p
MSTRG.2483.2	miR-6943-5p
MSTRG.2483.2	miR-6925-5p
MSTRG.2483.2	miR-1224-3p
MSTRG.2483.2	miR-3078-3p
MSTRG.2483.2	miR-20b-3p
MSTRG.2483.2	miR-17-3p
MSTRG.2483.2	miR-193b-5p
MSTRG.16159.9	miR-7019-3p
MSTRG.16159.9	miR-3552
MSTRG.16159.9	miR-7236-5p
MSTRG.16159.9	miR-6998-3p

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MSTRG.17585.1	miR-466i-5p
MSTRG.17585.1	miR-466d-5p
MSTRG.17585.1	miR-126a-5p
MSTRG.17585.1	miR-200b-5p
MSTRG.17585.1	miR-6903-3p
MSTRG.17585.1	miR-200a-5p
MSTRG.17585.1	miR-181d-5p
MSTRG.17585.1	miR-181c-5p
MSTRG.17585.1	miR-181a-5p
MSTRG.17585.1	miR-6928-5p
MSTRG.17585.1	miR-203-3p
MSTRG.17585.1	miR-200c-5p
MSTRG.17585.1	miR-743a-3p
MSTRG.17585.1	miR-19b-1-5p
MSTRG.17585.1	miR-7087-5p
MSTRG.17585.1	miR-466h-5p
MSTRG.17585.1	miR-6967-5p
MSTRG.17585.1	miR-3082-5p
MSTRG.17585.1	miR-7656-3p
MSTRG.17585.1	miR-7057-3p
MSTRG.17585.1	miR-709
MSTRG.17585.1	miR-3108-5p
MSTRG.17585.1	miR-669m-5p
MSTRG.17585.1	miR-466m-5p
MSTRG.17585.1	miR-466j
MSTRG.17585.1	miR-7073-5p
MSTRG.17585.1	miR-421-5p
MSTRG.17585.1	miR-466n-5p
MSTRG.17585.1	miR-5101
MSTRG.17585.1	miR-146b-3p
MSTRG.17585.1	miR-465c-5p
MSTRG.17585.1	miR-465b-5p
MSTRG.17585.1	miR-155-5p
MSTRG.17585.1	miR-299b-3p
MSTRG.17585.1	miR-299a-3p
MSTRG.17585.1	miR-3472
MSTRG.17585.1	miR-6959-5p
MSTRG.17585.1	miR-466q
MSTRG.17585.1	miR-7024-5p
MSTRG.17585.1	miR-466p-5p
MSTRG.17585.1	miR-466a-5p
MSTRG.17585.1	miR-6926-5p
MSTRG.17585.1	miR-466e-5p
MSTRG.17585.1	miR-3474

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MSTRG.17585.1	miR-3079-3p
MSTRG.17585.1	miR-194-2-3p
MSTRG.17585.1	miR-3100-5p
MSTRG.17585.1	miR-7008-3p
MSTRG.17585.1	miR-7009-3p
MSTRG.17585.1	miR-3065-5p
MSTRG.17585.1	miR-669c-3p
MSTRG.17585.1	miR-5624-3p
MSTRG.17585.1	miR-6516-3p
MSTRG.17585.1	miR-376c-3p
MSTRG.17585.1	miR-6941-5p
MSTRG.17585.1	miR-1187
MSTRG.17585.1	miR-3099-5p
MSTRG.17585.1	miR-669e-3p
MSTRG.17585.1	miR-542-3p
MSTRG.17585.1	miR-3552
MSTRG.17585.1	miR-669b-5p
MSTRG.17585.1	miR-3964
MSTRG.17585.1	miR-127-5p
MSTRG.17585.1	miR-136-5p
MSTRG.17585.1	miR-7025-3p
MSTRG.9309.1	miR-7236-5p
MSTRG.9309.1	miR-5101
MSTRG.9309.1	miR-669c-3p
MSTRG.9309.1	miR-467e-5p
MSTRG.9309.1	miR-669b-5p
MSTRG.9309.1	miR-669f-5p
MSTRG.9309.1	miR-7042-5p
MSTRG.9309.1	miR-709
MSTRG.9309.1	miR-1231-5p
MSTRG.9309.1	miR-3569-3p
MSTRG.9309.1	miR-669m-3p
MSTRG.9309.1	miR-669l-3p
MSTRG.9309.1	miR-467e-3p
MSTRG.9309.1	miR-467d-3p
MSTRG.9309.1	miR-467c-3p
MSTRG.9309.1	miR-467b-3p
MSTRG.9309.1	miR-6925-5p
MSTRG.9309.1	miR-376c-3p
MSTRG.9309.1	miR-7021-3p
MSTRG.9309.1	miR-216c-5p
MSTRG.9309.1	miR-3108-5p
MSTRG.9309.1	miR-350-3p
MSTRG.9309.1	miR-218-2-3p

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MSTRG.9309.1	miR-7010-5p
MSTRG.9309.1	miR-6540-3p
MSTRG.9309.1	miR-6967-5p
MSTRG.9309.1	miR-669f-3p
MSTRG.9309.1	miR-669b-3p
MSTRG.9309.1	miR-467a-3p
MSTRG.9309.1	miR-135b-5p
MSTRG.9309.1	miR-6922-3p
MSTRG.9309.1	miR-22-5p
MSTRG.9309.1	miR-101b-3p
MSTRG.9309.1	miR-6937-5p
MSTRG.9309.1	miR-181d-5p
MSTRG.9309.1	miR-181c-5p
MSTRG.9309.1	miR-181a-5p
MSTRG.9309.1	miR-466f-3p
MSTRG.9309.1	miR-297c-3p
MSTRG.9309.1	miR-297b-3p
MSTRG.9309.1	miR-297a-3p
MSTRG.9309.1	miR-337-3p
MSTRG.9309.1	miR-22-3p
MSTRG.9309.1	miR-153-5p
MSTRG.9309.1	miR-30b-5p
MSTRG.9309.1	miR-3105-3p
MSTRG.9309.1	miR-3110-5p
MSTRG.9309.1	miR-466l-3p
MSTRG.9309.1	miR-452-3p
MSTRG.9309.1	miR-211-5p
MSTRG.9309.1	miR-204-5p
MSTRG.9309.1	miR-93-3p
MSTRG.15980.1	miR-466i-5p
MSTRG.15980.1	miR-466d-5p
MSTRG.15980.1	miR-6903-3p
MSTRG.15980.1	miR-669i
MSTRG.15980.1	miR-7061-5p
MSTRG.15980.1	miR-448-3p
MSTRG.15980.1	miR-7008-5p
MSTRG.15980.1	miR-6967-5p
MSTRG.15980.1	miR-3106-5p
MSTRG.15980.1	miR-471-3p
MSTRG.15980.1	miR-6998-3p
MSTRG.15980.1	miR-6985-5p
MSTRG.15980.1	miR-6950-3p
MSTRG.15980.1	miR-7008-3p
MSTRG.15980.1	miR-6540-3p

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MSTRG.15980.1	miR-466l-3p
MSTRG.15980.1	miR-302a-5p
MSTRG.15980.1	miR-7047-5p
MSTRG.15980.1	miR-3079-3p
MSTRG.15980.1	miR-3074-5p
MSTRG.15980.1	miR-218-5p
MSTRG.15980.1	miR-5616-5p
MSTRG.15980.1	miR-455-3p
MSTRG.15980.1	miR-500-5p
MSTRG.15980.1	miR-466p-5p
MSTRG.15980.1	miR-466a-5p
MSTRG.15980.1	miR-1187
MSTRG.18159.11	miR-669c-3p
MSTRG.18159.11	miR-490-5p
MSTRG.18159.11	miR-452-5p
MSTRG.18159.11	miR-429-3p
MSTRG.18159.11	miR-200c-3p
MSTRG.18159.11	miR-200b-3p
MSTRG.18159.11	miR-188-5p
MSTRG.18159.11	miR-22-5p
MSTRG.18159.11	miR-466i-5p
MSTRG.18159.11	miR-466d-5p
MSTRG.18159.11	miR-466f-3p
MSTRG.18159.11	miR-6980-3p
MSTRG.18159.11	miR-101b-3p
MSTRG.18159.11	miR-3084-5p
MSTRG.18159.11	miR-6999-3p
MSTRG.18159.11	miR-7057-3p
MSTRG.18159.11	miR-672-5p
MSTRG.18159.11	miR-6984-3p
MSTRG.18159.11	miR-669e-3p
MSTRG.18159.11	miR-34c-3p
MSTRG.18159.11	miR-34b-3p
MSTRG.18159.11	miR-466l-3p
MSTRG.18159.11	miR-6983-3p
MSTRG.18159.11	miR-452-3p
MSTRG.18159.11	miR-3963
MSTRG.18159.11	miR-124-3p
MSTRG.18159.11	miR-7022-5p
MSTRG.18159.11	miR-7051-5p
MSTRG.18159.11	miR-7224-3p
MSTRG.18159.11	miR-33-3p
MSTRG.18159.11	miR-374c-5p
MSTRG.18159.11	miR-669h-3p

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MSTRG.18159.11	miR-362-3p
MSTRG.18159.11	miR-7024-5p
MSTRG.18159.11	miR-7048-3p
MSTRG.18159.11	miR-669i
MSTRG.18159.11	miR-466i-3p
MSTRG.18159.11	miR-145a-3p
MSTRG.18159.11	miR-450b-3p
MSTRG.18159.11	miR-450a-1-3p
MSTRG.18159.11	miR-8097
MSTRG.18159.11	miR-96-5p
MSTRG.18159.11	miR-208b-3p
MSTRG.18159.11	miR-208a-3p
MSTRG.18159.11	miR-8106
MSTRG.18159.11	miR-6941-5p

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**Table S8.** Correlated information of the upregulated lncRNA-associated ceRNA network in the hippocampus of 5×FAD mice.

Upregulated lncRNA	Downregulated miRNA	Upregulated mRNA
ENSMUST00000180635	miR-3085-3p, miR-3064-5p, miR-344g-5p, miR-3069-5p	Wdfy1, Tmed1, Mgl1, Fbln2, Cntn2, Abca3, Ash11, Col1a2, Tmem55b, Pacsin3, Celf2, Cobll1, Fmn12
ENSMUST00000127786	miR-3085-3p, miR-3064-5p, miR-673-5p, miR-344g-5p, miR-329-3p, miR-466o-3p, miR-466m-3p, miR-186-5p, miR-3069-5p, miR-338-3p, miR-7b-5p, miR-694, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-467g, miR-466p-3p, miR-466b-3p, miR-466c-3p,	Wdfy1, Tmed1, Mgl1, Fbln2, Cntn2, Abca3, Ash11, Eps8, Islr2, Celf2, Fbx117, Col1a2, Tmem55b, Pacsin3, Cobll1, Lzts3, Pak6, Tmod3, Clec7a, Fmn12, Stard3nl, Aplp2, Auts2, Nr3c2, Gng7, Spry1
ENSMUST00000028291	miR-3085-3p, miR-3064-5p, miR-466k	Wdfy1, Tmed1, Mgl1, Fbln2, Cntn2, Abca3, Ash11, Foxp1, Nde1, Clec7a, Fbx117
ENSMUST00000150127	miR-3085-3p, miR-3064-5p	Wdfy1, Tmed1, Mgl1, Fbln2, Cntn2, Abca3, Ash11
MSTRG.17500.2	miR-3085-3p, miR-3064-5p, miR-673-5p, miR-706, miR-466k, miR-344g-5p, miR-329-3p, miR-466o-3p, miR-466m-3p, miR-186-5p, miR-694, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-467g, miR-466p-3p, miR-466b-3p, miR-466c-3p	Wdfy1, Tmed1, Mgl1, Fbln2, Cntn2, Abca3, Ash11, Eps8, Islr2, Celf2, Fbx117, Elovl2, Parp11, Col1a2, Auts2, Akap11, Foxp1, Nde1, Clec7a, Tmem55b, Pacsin3, Cobll1, Lzts3, Pak6, Tmod3, Fmn12, Nr3c2, Gng7, Spry1
ENSMUST00000197854	miR-673-5p, miR-7b-5p	Eps8, Islr2, Celf2, Fbx117, Aplp2, Ash11
MSTRG.17055.1	miR-673-5p, miR-706, miR-466o-3p, miR-466m-3p, miR-338-3p, miR-466p-3p, miR-466b-3p, miR-466c-3p	Eps8, Islr2, Celf2, Fbx117, Elovl2, Parp11, Col1a2, Abca3, Auts2, Akap11, Lzts3, Cntn2, Clec7a, Stard3nl
MSTRG.1243.32	miR-673-5p, miR-706, miR-329-3p, miR-466o-3p, miR-466m-3p, miR-186-5p, miR-338-3p, miR-7b-5p, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-467g, miR-466p-3p, miR-466b-3p, miR-466c-3p	Eps8, Islr2, Celf2, Fbx117, Elovl2, Parp11, Col1a2, Abca3, Auts2, Akap11, Lzts3, Pak6, Tmod3, Clec7a, Fmn12, Cntn2, Stard3nl, Aplp2, Ash11, Spry1

MSTRG.10674.1	miR-706, miR-466k, miR-329-3p, miR-466o-3p, miR-466m-3p, miR-7b-5p, miR-466p-3p, miR-466b-3p, miR-466c-3p	Elovl2, Parp11, Col1a2, Abca3, Aut2, Celf2, Akap11, Foxp1, Nde1, Mgl1, Clec7a, Fbx117, Lzts3, Pak6, Tmod3, Aplp2, Ash11
MSTRG.16327.2	miR-466k	Foxp1, Nde1, Mgl1, Clec7a, Fbx117
MSTRG.6775.12	miR-466k, miR-344g-5p, miR-329-3p, miR-466o-3p, miR-466m-3p, miR-186-5p, miR-3069-5p, miR-338-3p, miR-694, miR-466a-3p, miR-466d-3p, miR-466e-3p, miR-467g, miR-466p-3p, miR-466b-3p, miR-466c-3p	Foxp1, Nde1, Mgl1, Clec7a, Fbx117, Col1a2, Tmem55b, Pacs1n3, Celf2, Cob111, Lzts3, Pak6, Tmod3, Fmnl2, Cntn2, Aut2, Nr3c2, Gng7, Spry1
MSTRG.6530.1	miR-186-5p, miR-338-3p	Fmnl2, Cntn2, Clec7a, Stard3nl
ENSMUST00000152985	miR-3069-5p	Fmnl2, Cntn2
ENSMUST00000153923	miR-694	Aut2, Nr3c2, Gng7

**Table S9.** Correlated information of the downregulated lncRNA-associated ceRNA network in the hippocampus of 5×FAD mice.

Downregulated lncRNA	Upregulated miRNA	Downregulated mRNA
MSTRG.2483.2	miR-452-3p, miR-136-5p, miR-3110-5p, miR-24-3p, miR-149-5p	Stxbp5l, Dnajc6, Inpp5e, Pik3ip1, 4932438A13Rik, Mapk10, Slc35c2, Cd99l2, Bcorl1, Adarb1, Ddx3y, Rab43, Rragc, Ctnnd1, Ric3, Fnbp1, Ube2i
MSTRG.9309.1	miR-452-3p, miR-5101, miR-669b-5p, miR-466l-3p, miR-466f-3p, miR-3110-5p	Stxbp5l, Dnajc6, Inpp5e, Pik3ip1, 5730455P16Rik, Ilf3, Srrm4, Mapk10, Ctnnd1, Dusp3, Tlk2, Znrfl, Slitrk2, D130043K22Rik, Uggt1, Wdr35, Pcbp2, Ociad2, Lzts3, Lsm14a, Ppargc1a, Adarb1, Ddx3y
MSTRG.18159.11	miR-452-3p, miR-466d-5p, miR-466i-5p, miR-466l-3p, miR-466f-3p, miR-490-5p	Stxbp5l, Dnajc6, Inpp5e, Pik3ip1, Smarca2, Reps2, Slc25a22, Ctdsp2, Fsd1l, Znrfl, Srrm4, Slitrk2, D130043K22Rik, Uggt1, Wdr35, Pcbp2, Ociad2, Lzts3, Lsm14a, Ppargc1a, Aak1, Abat, Fnbp1, Ube2i
ENSMUST00000173081	miR-466d-5p, miR-466i-5p, miR-743a-3p, miR-3113-5p	Stxbp5l, Smarca2, Reps2, Slc25a22, Ctdsp2, Fsd1l, Srrm4
MSTRG.17585.1	miR-466d-5p, miR-466i-5p, miR-3065-5p, miR-5101, miR-669b-5p, miR-3079-3p, miR-136-5p, miR-3474, miR-743a-3p	Stxbp5l, Smarca2, Reps2, Slc25a22, Ctdsp2, Fsd1l, Srrm4, 5730455P16Rik, Ilf3, Mapk10, Ctnnd1, Dusp3, Tlk2, Alg9, Rab43, Aak1, Abat, Inpp5e, Cd99l2, Fnbp1, Sez6l2
MSTRG.15980.1	miR-466d-5p, miR-466i-5p, miR-3079-3p, miR-466l-3p	Stxbp5l, Smarca2, Reps2, Slc25a22, Ctdsp2, Fsd1l, Ilf3, Srrm4, Znrfl, Slitrk2, D130043K22Rik, Uggt1, Wdr35, Pcbp2, Inpp5e
ENSMUST00000184170	miR-3065-5p, miR-669b-5p, miR-3079-3p, miR-15a-5p, miR-743a-3p, miR-24-3p	Stxbp5l, Srrm4, 5730455P16Rik, Ilf3, Uba1, Lzts3, Slc25a22, Ctdsp2, Gnas, Pitpna, Fnbp1, Rab43, Rragc
ENSMUST00000182575	miR-3065-5p, miR-3113-5p	Stxbp5l, Srrm4, Fsd1l 5730455P16Rik, Ilf3, Srrm4,
ENSMUST00000197200	miR-5101, miR-669b-5p, miR-136-5p, miR-3474, miR-3113-5p	Mapk10, Ctnnd1, Dusp3, Tlk2, 4932438A13Rik, Slc35c2, Cd99l2, Bcorl1, Alg9, Rab43, Reps2, Aak1, Abat, Inpp5e, Fnbp1, Sez6l2, Fsd1l

ENSMUST00000151020	miR-5101, miR-466l-3p, miR-149-5p, miR-490-5p	5730455P16Rik, Ilf3, Srrm4, Mapk10, Ctnnd1, Dusp3, Tlk2, Znrfl, Slitrk2, D130043K22Rik, Uggt1, Wdr35, Pcbp2, Inpp5e, Ric3, Rragc, Fnbp1, Ube2i, Aak1, Abat
ENSMUST00000162088	miR-15a-5p	Uba1, Lzts3, Slc25a22, Ctdsp2, Gnas, Pitpna, Fnbp1
ENSMUST00000203561	miR-15a-5p	Uba1, Lzts3, Slc25a22, Ctdsp2, Gnas, Pitpna, Fnbp1
ENSMUST00000218286	miR-15a-5p, miR-3474, miR-24-3p, miR-490-5p	Uba1, Lzts3, Slc25a22, Ctdsp2, Gnas, Pitpna, Fnbp1, Alg9, Rab43, Repts2, Aak1, Abat, Inpp5e, Cd99l2, Sez6l2, Rragc, Uggt1, Pcbp2, Ube2i
ENSMUST00000138202	miR-466l-3p, miR-24-3p	Znrfl, Srrm4, Slitrk2, D130043K22Rik, Uggt1, Wdr35, Pcbp2, Inpp5e, Rab43, Rragc
ENSMUST00000199803	miR-466l-3p	Znrfl, Srrm4, Slitrk2, D130043K22Rik, Uggt1, Wdr35, Pcbp2, Inpp5e
ENSMUST00000182642	miR-466f-3p	Znrfl, Ociad2, Lzts3, Lsm14a, Ppargc1a
ENSMUST00000126344	miR-3110-5p, miR-743a-3p	Adarb1, Ddx3y, Srrm4
ENSMUST00000168634	miR-3474	Alg9, Rab43, Repts2, Aak1, Abat, Inpp5e, Cd99l2, Fnbp1, Sez6l2
ENSMUST00000131037	miR-149-5p	Ctnnd1, Ric3, Rragc, Fnbp1, Ube2i
ENSMUST00000119305	miR-3113-5p	Fsd1l



**Table S10.** Information of the lncRNA-miRNA network in the cerebral cortex and hippocampus of 7-month-old 5×FAD mice.

lncRNA	miRNA targets
ENSMUSG00000098912	miR-380-3p
ENSMUSG00000098912	miR-1933-3p
ENSMUSG00000098912	miR-743b-3p
ENSMUSG00000098912	miR-877-5p
ENSMUSG00000098912	miR-433-3p
ENSMUSG00000098912	miR-669b-5p
ENSMUSG00000098912	miR-1955-5p
ENSMUSG00000098912	miR-214-3p
ENSMUSG00000098912	miR-3079-3p
ENSMUSG00000098912	miR-7080-3p
ENSMUSG00000098912	miR-24-3p
ENSMUSG00000098912	miR-411-5p
ENSMUSG00000098912	miR-153-3p
ENSMUSG00000098912	miR-3060-3p
ENSMUSG00000098912	miR-195a-5p
ENSMUSG00000098912	miR-15b-5p
ENSMUSG00000098912	miR-15a-5p
ENSMUSG00000098912	miR-16-5p
ENSMUSG00000098912	miR-322-5p
ENSMUSG00000098912	miR-497a-5p
ENSMUSG00000098912	miR-195b
ENSMUSG00000098912	miR-3065-5p
ENSMUSG00000098912	miR-3083-5p
ENSMUSG00000098912	miR-193a-3p
ENSMUSG00000098912	miR-193b-3p
ENSMUSG00000098912	miR-18a-5p
ENSMUSG00000098912	miR-3070-5p
ENSMUSG00000098912	miR-6958-3p
ENSMUSG00000098912	miR-488-3p
ENSMUSG00000098912	miR-7010-5p
ENSMUSG00000098912	miR-145b
ENSMUSG00000098912	miR-8120
ENSMUSG00000098912	miR-6914-3p
ENSMUSG00000098912	miR-212-5p
ENSMUSG00000098912	miR-127-5p
ENSMUSG00000098912	miR-7043-3p
ENSMUSG00000098912	miR-7027-5p
ENSMUSG00000098912	miR-151-5p
ENSMUSG00000098912	miR-669p-5p
ENSMUSG00000098912	miR-29c-5p
ENSMUSG00000098912	miR-3058-3p

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ENSMUSG00000098912	miR-540-3p
ENSMUST00000127786	miR-669h-5p
ENSMUST00000127786	miR-674-3p
ENSMUST00000127786	miR-7117-5p
ENSMUST00000127786	miR-547-5p
ENSMUST00000127786	miR-221-3p
ENSMUST00000127786	miR-874-3p
ENSMUST00000127786	miR-7688-5p
ENSMUST00000127786	miR-6937-5p
ENSMUST00000127786	miR-574-5p
ENSMUST00000127786	miR-135a-5p
ENSMUST00000127786	miR-3473e
ENSMUST00000127786	miR-582-5p
ENSMUST00000127786	miR-215-5p
ENSMUST00000127786	miR-7674-3p
ENSMUST00000127786	miR-344g-5p
ENSMUST00000127786	miR-26b-3p
ENSMUST00000127786	miR-344-3p
ENSMUST00000127786	miR-6240
ENSMUST00000127786	miR-3064-5p
ENSMUST00000127786	miR-6979-3p
ENSMUST00000127786	miR-129b-3p
ENSMUST00000127786	miR-7021-5p
ENSMUST00000127786	miR-153-3p
ENSMUST00000127786	miR-30e-5p
ENSMUST00000127786	miR-146a-5p
ENSMUST00000127786	miR-344d-1-5p
ENSMUST00000127786	miR-143-3p
ENSMUST00000127786	miR-7000-3p
ENSMUST00000127786	miR-106b-5p
ENSMUST00000127786	miR-3095-5p
ENSMUST00000127786	miR-669l-5p
ENSMUST00000127786	miR-493-5p
ENSMUST00000127786	miR-673-5p
ENSMUST00000127786	miR-3081-3p
ENSMUST00000127786	miR-1934-5p
ENSMUST00000127786	miR-31-5p
ENSMUST00000127786	miR-1927
ENSMUST00000127786	miR-6537-3p
ENSMUST00000127786	miR-148a-5p
ENSMUST00000127786	miR-3067-5p
ENSMUST00000127786	miR-26a-5p
ENSMUST00000127786	miR-181b-1-3p
ENSMUST00000127786	miR-133a-3p

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ENSMUST00000127786	miR-29b-3p
ENSMUST00000127786	miR-302d-3p
ENSMUST00000127786	miR-3112-5p
ENSMUST00000127786	miR-467a-3p
ENSMUST00000127786	miR-3105-3p
ENSMUST00000127786	miR-130a-5p
ENSMUST00000127786	miR-3097-5p
ENSMUST00000127786	miR-137-5p
ENSMUST00000127786	miR-1933-3p
ENSMUST00000127786	miR-1946a
ENSMUST00000127786	miR-682
ENSMUST00000127786	miR-7037-5p
ENSMUST00000127786	miR-704
ENSMUST00000127786	miR-411-3p
ENSMUST00000127786	miR-7016-5p
ENSMUST00000127786	miR-6999-5p
ENSMUST00000127786	miR-6927-3p
ENSMUST00000127786	miR-503-3p
ENSMUST00000127786	miR-30f
ENSMUST00000127786	miR-3098-3p
ENSMUST00000127786	miR-125b-2-3p
ENSMUST00000127786	miR-322-5p
ENSMUST00000127786	miR-500-5p
ENSMUST00000127786	miR-6933-3p
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MSTRG.1243.32	miR-300-5p
MSTRG.1243.32	miR-877-3p
MSTRG.1243.32	miR-326-3p
MSTRG.1243.32	miR-222-5p
MSTRG.1243.32	miR-365-3p
MSTRG.1243.32	miR-7043-3p
MSTRG.1243.32	miR-193b-5p
MSTRG.1243.32	miR-1981-3p
MSTRG.1243.32	miR-701-3p
MSTRG.1243.32	miR-511-3p
MSTRG.1243.32	miR-7068-3p
MSTRG.1243.32	miR-3090-3p
MSTRG.1243.32	miR-1247-3p

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MSTRG.1243.32	miR-539-5p
MSTRG.1243.32	miR-129b-3p
MSTRG.1243.32	miR-6946-5p
MSTRG.1243.32	miR-202-5p
MSTRG.1243.32	miR-483-3p
MSTRG.1243.32	miR-450b-3p
MSTRG.1243.32	miR-450a-1-3p
MSTRG.1243.32	miR-130a-5p
MSTRG.1243.32	miR-495-5p
MSTRG.1243.32	miR-22-5p
MSTRG.1243.32	miR-3082-3p
MSTRG.1243.32	miR-186-5p
MSTRG.1243.32	miR-1291
MSTRG.1243.32	miR-6941-5p
MSTRG.1243.32	let-7f-2-3p
MSTRG.1243.32	miR-6999-3p
MSTRG.1243.32	miR-679-5p
MSTRG.1243.32	miR-6240
MSTRG.1243.32	miR-770-3p
MSTRG.1243.32	miR-350-3p
MSTRG.1243.32	miR-6991-5p
MSTRG.1243.32	miR-1930-5p
MSTRG.1243.32	miR-1668
MSTRG.1243.32	miR-879-5p
MSTRG.1243.32	miR-6985-3p
MSTRG.1243.32	miR-673-5p
MSTRG.1243.32	miR-6918-5p
MSTRG.1243.32	miR-345-3p
MSTRG.1243.32	miR-139-5p
MSTRG.1243.32	miR-24-3p
MSTRG.1243.32	miR-5620-3p
MSTRG.1243.32	miR-7651-5p
MSTRG.1243.32	miR-330-3p
MSTRG.1243.32	miR-298-3p
MSTRG.1243.32	miR-7665-5p

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**Table S11.** Information of RNAs in the L-M-T network based on RNA-seq results.

RNA	Cortex				Hippocampus			
	Log <sub>2</sub> Fold Change	<i>p</i> -value	<i>q</i> -value	Regulation	Log <sub>2</sub> Fold Change	<i>p</i> -value	<i>q</i> -value	Regulation
ENSMUST0000127786	11.46	$3.74 \times 10^{-5}$	$1.57 \times 10^{-6}$	up	10.49	$5.72 \times 10^{-11}$	$2.86 \times 10^{-8}$	up
ENSMUSG0000098912	-16.56	$6.00 \times 10^{-12}$	$3.79 \times 10^{-9}$	down	-1.68	$1.49 \times 10^{-5}$	$2.26 \times 10^{-3}$	down
miR-362-3p	0.72	$1.01 \times 10^{-6}$	$1.36 \times 10^{-4}$	up	0.15	$5.28 \times 10^{-1}$	$8.87 \times 10^{-1}$	up
miR-329-3p	-0.10	$4.49 \times 10^{-1}$	$7.26 \times 10^{-1}$	down	-0.21	$3.44 \times 10^{-1}$	$8.21 \times 10^{-1}$	down
miR-466i-3p	-0.41	$5.69 \times 10^{-1}$	1.00	down	1.07	$1.07 \times 10^{-1}$	1.00	up
miR-669b-5p	1.15	$2.46 \times 10^{-2}$	$1.89 \times 10^{-1}$	up	0.59	$3.28 \times 10^{-1}$	1.00	up
miR-3057-5p	0.25	$4.17 \times 10^{-1}$	$7.17 \times 10^{-1}$	up	-0.23	$4.95 \times 10^{-1}$	$8.76 \times 10^{-1}$	down
miR-5101	-0.59	$6.63 \times 10^{-1}$	1.00	down	0.69	$6.09 \times 10^{-1}$	1.00	up
miR-15a-5p	0.62	$9.48 \times 10^{-4}$	$2.36 \times 10^{-2}$	up	0.25	$3.21 \times 10^{-1}$	$7.88 \times 10^{-1}$	up
miR-466o-3p	-1.46	$7.00 \times 10^{-1}$	1.00	down	-1.54	$6.09 \times 10^{-1}$	1.00	down
miR-466m-3p	-2.33	$2.27 \times 10^{-1}$	1.00	down	-1.44	$7.25 \times 10^{-1}$	1.00	down
miR-539-5p	-0.09	$7.49 \times 10^{-1}$	$8.97 \times 10^{-1}$	down	-0.05	$8.63 \times 10^{-1}$	$9.69 \times 10^{-1}$	down
Clec7a	5.99	$2.38 \times 10^{-5}$	$3.26 \times 10^{-3}$	up	7.46	$1.10 \times 10^{-5}$	$1.76 \times 10^{-3}$	up
Elovl2	10.03	$1.89 \times 10^{-7}$	$5.62 \times 10^{-5}$	up	6.87	$2.12 \times 10^{-6}$	$4.34 \times 10^{-4}$	up
Fnbp1	16.14	$4.15 \times 10^{-6}$	$7.74 \times 10^{-4}$	up	-16.40	$8.16 \times 10^{-20}$	$1.57 \times 10^{-16}$	down
5730455P16Rik	10.51	$3.57 \times 10^{-7}$	$9.41 \times 10^{-5}$	up	-11.23	$1.29 \times 10^{-8}$	$4.25 \times 10^{-6}$	down