

microRNA and LncRNA for OB

Table S1. Altered expression of miRNAs in OB

<i>Down-regulated >2-fold</i>		<i>Up-regulated >2-fold</i>	
Name	Fold change	Name	Fold change
mmu-miR-1912-5p	0.1	mmu-miR-5616-5p	4.9
mmu-miR-363-5p	0.2	mmu-miR-3103-3p	4.9
mmu-miR-302c-3p	0.3	mmu-miR-376c-5p	4.3
mmu-miR-134-5p	0.3	mmu-miR-1947-3p	4.3
mmu-miR-20b-5p	0.4	mmu-miR-485-3p	3.7
mmu-miR-3103-5p	0.4	mmu-miR-1843b-3p	3.7
mmu-miR-27a-3p	0.4	mmu-miR-491-5p	3.5
mmu-miR-338-3p	0.4	mmu-miR-1943-3p	3.5
mmu-miR-92a-2-5p	0.4	mmu-miR-677-3p	3.4
mmu-miR-670-5p	0.4	mmu-miR-467g	3.3
mmu-let-7f-5p	0.4	mmu-miR-872-3p	3.1
mmu-miR-1964-5p	0.5	mmu-miR-3961	3.1
mmu-miR-98-5p	0.5	mmu-miR-320-5p	3.0
mmu-let-7a-5p	0.5	mmu-miR-1903	3.0
mmu-miR-19b-3p	0.5	mmu-miR-483-3p	3.0
mmu-miR-3064-3p	0.5	mmu-miR-5116	3.0
mmu-miR-467b-5p	0.5	mmu-miR-290a-3p	3.0
		mmu-miR-883b-5p	3.0
		mmu-miR-3572-3p	2.8
		mmu-miR-1971	2.8
		mmu-miR-3076-3p	2.8
		mmu-miR-302a-3p	2.8
		mmu-miR-21a-3p	2.7
		mmu-miR-451a	2.7
		mmu-miR-466d-3p	2.7
		mmu-miR-1224-3p	2.7
		mmu-miR-185-3p	2.7
		mghv-miR-M1-2-3p	2.6
		mmu-miR-709	2.5
		mmu-miR-675-5p	2.5
		mmu-miR-669n	2.5
		mmu-miR-124-3p	2.5
		mmu-miR-3062-3p	2.5
		mghv-miR-M1-6-5p	2.4
		mmu-miR-3544-3p	2.4
		mmu-miR-183-3p	2.4
		mmu-miR-669i	2.4
		mmu-miR-3473b	2.4
		mmu-miR-3474	2.3
		mmu-miR-3100-3p	2.3
		mmu-miR-592-3p	2.3
		mmu-miR-466f-3p	2.3
		mmu-let-7e-5p	2.3
		mmu-miR-503-5p	2.3
		mmu-miR-3081-3p	2.2
		mmu-miR-3963	2.2

microRNA and LncRNA for OB

mmu-miR-466e-5p	2.2
mmu-miR-300-5p	2.2
mmu-miR-466a-3p	2.2
mmu-miR-299a-5p	2.2
mmu-miR-1900	2.2
mmu-miR-3072-3p	2.1
mmu-miR-455-3p	2.1
mmu-miR-665-5p	2.1
mmu-miR-151-5p	2.1
mmu-miR-205-5p	2.1
mmu-miR-1952	2.1
mmu-miR-679-3p	2.1
mmu-miR-5100	2.0
mmu-miR-2137	2.0
mmu-miR-690	2.0
mmu-miR-669m-3p	2.0

Table S2. Altered expression of lncRNA in OB

<i>Up-regulated</i>		<i>Down-regulated</i>	
Probe name	Log ₂ value	Probe name	Log ₂ value
ASMM9PARTA036416	2.0	ASMM9PARTA025107	-7.0
ASMM9PARTA024948	2.0	ASMM9PARTA038582	-6.0
ASMM9PARTA021567	2.0	ASMM9PARTA042623	-5.7
ASMM9PARTA025492	2.0	ASMM9PARTA028957	-5.4
ASMM9PARTA029723	2.0	ASMM9PARTA026621	-5.1
ASMM9PARTA037225	2.0	ASMM9PARTA025248	-5.0
ASMM9PARTA019741	2.0	ASMM9PARTA025168	-5.0
ASMM9PARTA021119	2.1	ASMM9PARTA043294	-4.8
ASMM9PARTA036479	2.1	ASMM9PARTA033927	-4.8
ASMM9PARTA043007	2.1	ASMM9PARTA043257	-4.8
ASMM9PARTA037335	2.1	ASMM9PARTA023153	-4.6
ASMM9PARTA035331	2.1	ASMM9PARTA026379	-4.5
ASMM9PARTA043078	2.1	ASMM9PARTA032247	-4.3
ASMM9PARTA028889	2.1	ASMM9PARTA036069	-4.3
ASMM9PARTA030715	2.1	ASMM9PARTA035673	-4.2
ASMM9PARTA038989	2.1	ASMM9PARTA040765	-4.0
ASMM9PARTA039734	2.1	ASMM9PARTA024372	-4.0
ASMM9PARTA031941	2.1	ASMM9PARTA032898	-3.9
ASMM9PARTA033869	2.1	ASMM9PARTA044749	-3.9
ASMM9PARTA023087	2.1	ASMM9PARTA026084	-3.8
ASMM9PARTA036586	2.1	ASMM9PARTA039723	-3.7
ASMM9PARTA042746	2.1	ASMM9PARTA037004	-3.6
ASMM9PARTA038059	2.1	ASMM9PARTA035112	-3.6
ASMM9PARTA023342	2.1	ASMM9PARTA036733	-3.5
ASMM9PARTA037806	2.1	ASMM9PARTA030511	-3.4
ASMM9PARTA040147	2.1	ASMM9PARTA029954	-3.4
ASMM9PARTA020457	2.2	ASMM9PARTA036573	-3.4
ASMM9PARTA042434	2.2	CUST_283_PI426409190	-3.4

microRNA and LncRNA for OB

ASMM9PARTA034673	2.2	ASMM9PARTA041030	-3.3
ASMM9PARTA020282	2.2	ASMM9PARTA041534	-3.3
ASMM9PARTA026504	2.2	ASMM9PARTA041284	-3.3
ASMM9PARTA024570	2.2	ASMM9PARTA024608	-3.3
ASMM9PARTA043805	2.2	ASMM9PARTA025450	-3.2
ASMM9PARTA036329	2.2	ASMM9PARTA028148	-3.2
ASMM9PARTA043841	2.2	ASMM9PARTA021956	-3.2
ASMM9PARTA036804	2.2	ASMM9PARTA026473	-3.2
ASMM9PARTA033353	2.2	ASMM9PARTA036805	-3.2
ASMM9PARTA041381	2.2	ASMM9PARTA026538	-3.1
ASMM9PARTA024955	2.2	ASMM9PARTA038192	-3.1
ASMM9PARTA034571	2.2	ASMM9PARTA040334	-3.1
ASMM9PARTA042248	2.2	ASMM9PARTA036848	-3.1
ASMM9PARTA027356	2.2	ASMM9PARTA027045	-3.1
ASMM9PARTA031318	2.2	ASMM9PARTA033162	-3.0
ASMM9PARTA020133	2.2	ASMM9PARTA038860	-3.0
ASMM9PARTA043059	2.3	ASMM9PARTA040941	-2.9
ASMM9PARTA031958	2.3	ASMM9PARTA021287	-2.9
ASMM9PARTA031754	2.3	ASMM9PARTA042826	-2.9
ASMM9PARTA023175	2.3	ASMM9PARTA028726	-2.9
ASMM9PARTA044274	2.4	ASMM9PARTA044291	-2.9
ASMM9PARTA044283	2.4	ASMM9PARTA039547	-2.9
ASMM9PARTA042103	2.4	ASMM9PARTA032583	-2.9
ASMM9PARTA043775	2.4	ASMM9PARTA031297	-2.8
ASMM9PARTA026741	2.4	ASMM9PARTA036131	-2.8
ASMM9PARTA023799	2.4	ASMM9PARTA021341	-2.8
ASMM9PARTA039477	2.4	ASMM9PARTA042339	-2.7
ASMM9PARTA028181	2.5	ASMM9PARTA027310	-2.7
ASMM9PARTA022087	2.5	ASMM9PARTA025606	-2.7
ASMM9PARTA039897	2.5	ASMM9PARTA034430	-2.7
ASMM9PARTA044712	2.5	ASMM9PARTA033876	-2.7
ASMM9PARTA035773	2.5	ASMM9PARTA025669	-2.7
ASMM9PARTA041811	2.5	ASMM9PARTA020312	-2.6
ASMM9PARTA032480	2.6	ASMM9PARTA033594	-2.6
ASMM9PARTA020087	2.6	ASMM9PARTA022995	-2.5
ASMM9PARTA021065	2.6	ASMM9PARTA035389	-2.5
ASMM9PARTA032650	2.6	ASMM9PARTA025137	-2.5
ASMM9PARTA040595	2.6	ASMM9PARTA036962	-2.5
ASMM9PARTA029715	2.6	ASMM9PARTA043977	-2.5
ASMM9PARTA033527	2.6	ASMM9PARTA037180	-2.5
ASMM9PARTA042068	2.6	ASMM9PARTA024196	-2.5
ASMM9PARTA024721	2.7	ASMM9PARTA042278	-2.5
ASMM9PARTA029156	2.7	ASMM9PARTA030610	-2.4
ASMM9PARTA033076	2.7	ASMM9PARTA025166	-2.4
ASMM9PARTA041748	2.7	CUST_292_PI426409190	-2.4
ASMM9PARTA022133	2.8	ASMM9PARTA037958	-2.4
ASMM9PARTA044936	2.9	ASMM9PARTA029999	-2.4
ASMM9PARTA033062	2.9	ASMM9PARTA031932	-2.4
ASMM9PARTA029141	2.9	ASMM9PARTA022709	-2.4

microRNA and LncRNA for OB

ASMM9PARTA038027	2.9	ASMM9PARTA023774	-2.3
ASMM9PARTA035884	3.0	ASMM9PARTA026351	-2.3
ASMM9PARTA038671	3.0	ASMM9PARTA030260	-2.3
ASMM9PARTA034385	3.0	ASMM9PARTA038504	-2.3
ASMM9PARTA024134	3.0	ASMM9PARTA024879	-2.3
ASMM9PARTA041649	3.1	ASMM9PARTA027936	-2.3
ASMM9PARTA044273	3.2	ASMM9PARTA043991	-2.3
ASMM9PARTA021277	3.2	ASMM9PARTA037271	-2.3
ASMM9PARTA020515	3.2	ASMM9PARTA043628	-2.3
ASMM9PARTA043858	3.3	ASMM9PARTA023003	-2.3
ASMM9PARTA037872	3.4	ASMM9PARTA041729	-2.2
ASMM9PARTA044725	3.4	ASMM9PARTA027174	-2.2
ASMM9PARTA035270	3.4	ASMM9PARTA036286	-2.2
ASMM9PARTA026196	3.6	ASMM9PARTA027530	-2.2
ASMM9PARTA035507	3.7	ASMM9PARTA027746	-2.2
ASMM9PARTA033335	3.7	ASMM9PARTA038791	-2.2
ASMM9PARTA043789	3.8	ASMM9PARTA041642	-2.2
ASMM9PARTA041903	3.8	ASMM9PARTA036876	-2.2
ASMM9PARTA021824	3.9	ASMM9PARTA038217	-2.2
ASMM9PARTA026216	3.9	ASMM9PARTA036249	-2.2
ASMM9PARTA043237	3.9	ASMM9PARTA040716	-2.2
ASMM9PARTA042656	3.9	ASMM9PARTA026766	-2.2
ASMM9PARTA033972	4.0	ASMM9PARTA025920	-2.2
ASMM9PARTA021232	4.0	ASMM9PARTA022833	-2.2
ASMM9PARTA039243	4.0	ASMM9PARTA033398	-2.2
ASMM9PARTA039385	4.1	ASMM9PARTA028530	-2.2
ASMM9PARTA036161	4.1	ASMM9PARTA022252	-2.2
ASMM9PARTA023963	4.5	ASMM9PARTA039495	-2.2
ASMM9PARTA039460	4.5	ASMM9PARTA028664	-2.2
ASMM9PARTA037014	4.6	ASMM9PARTA039320	-2.1
ASMM9PARTA023396	4.6	ASMM9PARTA030007	-2.1
ASMM9PARTA030704	4.6	ASMM9PARTA024585	-2.1
ASMM9PARTA019895	4.6	ASMM9PARTA038185	-2.1
ASMM9PARTA043124	4.7	ASMM9PARTA033651	-2.1
ASMM9PARTA042189	4.8	ASMM9PARTA024310	-2.1
ASMM9PARTA036858	5.2	ASMM9PARTA029905	-2.1
ASMM9PARTA021949	5.2	ASMM9PARTA036539	-2.1
ASMM9PARTA041782	5.3	ASMM9PARTA034057	-2.1
ASMM9PARTA031332	5.5	ASMM9PARTA020363	-2.1
ASMM9PARTA029738	5.5	ASMM9PARTA034868	-2.1
ASMM9PARTA030994	5.6	ASMM9PARTA024357	-2.1
ASMM9PARTA037880	6.0	ASMM9PARTA035039	-2.1
ASMM9PARTA039503	6.2	ASMM9PARTA040362	-2.1
ASMM9PARTA024769	6.4	ASMM9PARTA032978	-2.1
ASMM9PARTA030040	6.5	ASMM9PARTA043695	-2.1
ASMM9PARTA023305	6.7	ASMM9PARTA038596	-2.1
ASMM9PARTA021533	7.0	ASMM9PARTA021594	-2.1
ASMM9PARTA029953	7.0	ASMM9PARTA026652	-2.0
ASMM9PARTA021345	7.8	ASMM9PARTA034312	-2.0

microRNA and LncRNA for OB

ASMM9PARTA041164	7.9	ASMM9PARTA020761	-2.0
ASMM9PARTA041837	8.2	ASMM9PARTA028640	-2.0
ASMM9PARTA037623	9.3	ASMM9PARTA043436	-2.0
		ASMM9PARTA039845	-2.0
		ASMM9PARTA033776	-2.0
		ASMM9PARTA026267	-2.0
		ASMM9PARTA037541	-2.0
		ASMM9PARTA035680	-2.0
		ASMM9PARTA026862	-2.0
		ASMM9PARTA028494	-2.0
		ASMM9PARTA025981	-2.0

Table S3. Altered gene expression in OB

<i>Up-regulated</i>		<i>Down-regulated</i>	
Sequence name	Log2 value	Sequence name	Log2 value
AK033969	8.4	AK049220	-7.9
MM9LINC RNA EXON11600-	7.1	ENSMUST00000147119	-6.2
AK170567	7.1	AK077505	-6.2
MM9LINC RNA EXON10141+	6.8	AK090313	-6.0
uc008fqw.1	6.4	uc007efj.1	-6.0
AK009534	6.0	ENSMUST00000154027	-5.6
AK078702	6.0	uc007ukb.1	-5.3
AK131765	5.9	AK013651	-5.2
uc009gkn.1	5.7	AK016382	-5.0
MM9LINC RNA EXON11876-	5.5	MM9LINC RNA EXON11494+	-4.9
AK087287	5.5	ENSMUST00000123810	-4.7
ENSMUST00000148174	5.5	uc009lkg.1	-4.7
ENSMUST00000151851	5.4	HumanlincRNA0847+	-4.7
AK155541	5.4	AK014034	-4.6
AK140484	5.3	AK137610	-4.6
uc007eix.1	5.3	uc008ssp.1	-4.6
AK133058	5.2	ENSMUST00000089303	-4.4
ENSMUST00000154820	5.2	AK157176	-4.2
uc007zye.1	5.1	ENSMUST00000117204	-4.2
ENSMUST00000121552	5.1	uc009cda.1	-4.1
AK148345	5.1	MM9LINC RNA EXON11520-	-4.0
MM9LINC RNA EXON10882-	5.0	ENSMUST00000148492	-4.0
ENSMUST00000058681	4.8	ENSMUST00000119420	-3.9
AK032363	4.8	CR517643	-3.9
MM9LINC RNA EXON10455-	4.8	uc009nol.1	-3.9
uc009fmr.1	4.6	ENSMUST00000129154	-3.8
MM9LINC RNA EXON12008+	4.4	AK140978	-3.8
AK139524	4.4	AK148353	-3.7
HumanlincRNA0238+	4.2	ENSMUST00000130484	-3.7
uc007iyd.1	4.1	uc007nuc.1	-3.6
AK004273	4.1	MouselincRNA0567+	-3.6
ENSMUST00000121457	4.1	uc009hnm.1	-3.6
uc008qmt.1	4.1	uc007vbx.1	-3.6
uc007oyh.1	4.1	MM9LINC RNA EXON10605+	-3.6

microRNA and LncRNA for OB

ENSMUST00000122554	4.0	ENSMUST00000141696	-3.5
uc009ots.1	4.0	ENSMUST00000157018	-3.5
AK142442	4.0	AK048825	-3.5
ENSMUST00000157289	3.9	AK030271	-3.5
HumanlincRNA0966-	3.9	AK004525	-3.4
AK085465	3.9	AK156772	-3.4
BY366875	3.9	NR_027892	-3.4
ENSMUST00000117673	3.9	ENSMUST00000163248	-3.3
AK143261	3.8	ENSMUST00000121910	-3.3
uc009ryo.1	3.8	ENSMUST00000121499	-3.3
uc009njr.1	3.8	AK033336	-3.3
MM9LINCRNAEXON12113+	3.8	ENSMUST00000121233	-3.2
HumanlincRNA0075-	3.7	AK082204	-3.2
uc007rof.1	3.7	ENSMUST00000129742	-3.2
AK041555	3.7	AK158457	-3.2
MM9LINCRNAEXON11373+	3.6	ENSMUST00000170247	-3.2
AK157223	3.6	MM9LINCRNAEXON10968-	-3.1
MM9LINCRNAEXON11203+	3.6	MM9LINCRNAEXON10549-	-3.1
MouselincRNA0424+	3.5	ENSMUST00000156609	-3.1
AK037511	3.5	X58597	-3.1
uc007imm.1	3.4	AK046358	-3.1
AK140973	3.4	ENSMUST00000119537	-3.0
ENSMUST00000152599	3.4	HumanlincRNA1139+	-3.0
AK157024	3.3	ENSMUST00000138472	-3.0
AK158305	3.3	ENSMUST00000159953	-3.0
ENSMUST00000167543	3.3	ENSMUST00000154246	-3.0
AK165538	3.2	ENSMUST00000121578	-3.0
ENSMUST00000152249	3.2	AK039753	-3.0
uc008dgi.1	3.2	NR_015496	-2.9
BY365805	3.2	HumanlincRNA1571-	-2.9
ENSMUST00000122208	3.2	ENSMUST00000154326	-2.9
HumanlincRNA0733+	3.2	AK085415	-2.9
HumanlincRNA0268+	3.1	AK030150	-2.9
MM9LINCRNAEXON11825+	3.1	uc.329-	-2.9
ENSMUST00000132811	3.1	HumanlincRNA0248-	-2.9
uc007clk.1	3.1	MM9LINCRNAEXON10009+	-2.9
AK043294	3.0	AK143091	-2.9
uc007jee.1	3.0	ENSMUST00000121423	-2.8
ENSMUST00000147622	3.0	ENSMUST00000123263	-2.8
ENSMUST00000121363	3.0	AK041910	-2.8
MM9LINCRNAEXON11721-	3.0	AK016107	-2.8
ENSMUST00000120065	3.0	AK138821	-2.8
uc007iwk.1	2.9	ENSMUST00000144575	-2.8
ENSMUST00000132440	2.9	uc009noj.1	-2.8
uc007jqh.1	2.9	AK050310	-2.7
ENSMUST00000024796	2.9	MM9LINCRNAEXON11683+	-2.7
ENSMUST00000142068	2.9	AK042593	-2.7
AK034550	2.9	ENSMUST00000145537	-2.7
AK084571	2.9	uc007xmk.1	-2.7
AK157298	2.9	AK032571	-2.7

microRNA and LncRNA for OB

ENSMUST00000134411	2.8	AK046934	-2.6
AK031944	2.8	AK015276	-2.6
ENSMUST00000153022	2.8	NR_015486	-2.6
ENSMUST00000157149	2.8	HumanlincRNA0493-	-2.6
uc008oii.1	2.8	ENSMUST00000141008	-2.6
uc007ein.1	2.8	uc009mzw.1	-2.6
AK046212	2.8	MM9LINCRNAEXON11466+	-2.6
uc007zkz.1	2.7	AK140059	-2.6
AK021161	2.7	ENSMUST00000146422	-2.6
AK028337	2.7	HumanlincRNA1730+	-2.6
HumanlincRNA1110+	2.7	ENSMUST00000149935	-2.6
uc009mzj.1	2.7	AK020382	-2.6
MM9LINCRNAEXON10268-	2.7	uc008mrt.1	-2.6
AK041459	2.7	ENSMUST00000118338	-2.6
HumanlincRNA0538+	2.7	ENSMUST00000155550	-2.6
AK016932	2.6	HumanlincRNA1166-	-2.6
AK089674	2.6	MouselincRNA1323-	-2.5
AK138338	2.6	uc.290+	-2.5
ENSMUST00000164823	2.6	ENSMUST00000122298	-2.5
ENSMUST00000119392	2.6	MM9LINCRNAEXON10441+	-2.5
ENSMUST00000126472	2.6	AK046735	-2.5
ENSMUST00000164104	2.6	uc009rbl.1	-2.5
ENSMUST00000159134	2.6	AK084956	-2.5
AK138364	2.6	ENSMUST00000150628	-2.5
uc009glf.1	2.6	MouselincRNA0499+	-2.5
AK034657	2.6	HumanlincRNA2161-	-2.5
MM9LINCRNAEXON11832+	2.6	uc.343-	-2.5
AK087845	2.6	AK185258	-2.5
AK144955	2.5	AK137095	-2.5
BM942986	2.5	uc008dyq.1	-2.5
ENSMUST00000120491	2.5	AK079041	-2.5
AK132221	2.5	ENSMUST00000133819	-2.5
AK033838	2.5	AK133343	-2.5
HumanlincRNA1277-	2.5	AK049993	-2.4
uc008ymx.1	2.5	BB366324	-2.4
MM9LINCRNAEXON11919+	2.5	MM9LINCRNAEXON11972+	-2.4
ENSMUST00000141922	2.5	ENSMUST00000167222	-2.4
ENSMUST00000118980	2.5	NR_027772	-2.4
uc007ens.1	2.5	HumanlincRNA1923-	-2.4
ENSMUST00000152014	2.5	ENSMUST00000172202	-2.4
HumanlincRNA0143-	2.5	AK018837	-2.4
AK006751	2.5	uc007vhh.1	-2.4
AK051842	2.5	NR_028592	-2.4
AK047380	2.4	AK137032	-2.4
MM9LINCRNAEXON10584+	2.4	AK087899	-2.4
AK085478	2.4	NR_033566	-2.4
AK142920	2.4	uc009rfm.1	-2.4
ENSMUST00000119855	2.4	DV055146	-2.3
ENSMUST00000107580	2.4	NR_028107	-2.3
AI615328	2.4	ENSMUST00000125158	-2.3

microRNA and LncRNA for OB

uc007lhv.1	2.4	uc009aln.1	-2.3
MM9LINCRNAEXON11143-	2.4	AK136314	-2.3
ENSMUST00000137073	2.4	uc008bdb.1	-2.3
MM9LINCRNAEXON11313-	2.4	uc009uan.1	-2.3
AK158580	2.4	uc007fxh.1	-2.3
AK077964	2.4	ENSMUST00000151883	-2.3
ENSMUST00000130679	2.4	ENSMUST00000154561	-2.3
uc.367+	2.4	MM9LINCRNAEXON10817-	-2.3
MouselincRNA0323-	2.4	ENSMUST00000151616	-2.3
uc.14-	2.4	ENSMUST00000170435	-2.3
ENSMUST00000117234	2.4	AK016707	-2.3
HumanlincRNA1545-	2.3	ENSMUST00000158493	-2.3
NR_015526	2.3	AK085261	-2.2
uc007gwt.1	2.3	ENSMUST00000168496	-2.2
AK086255	2.3	uc007tra.1	-2.2
AK016596	2.3	ENSMUST00000120968	-2.2
uc008dwx.1	2.3	AK005877	-2.2
AK003932	2.3	ENSMUST00000166198	-2.2
uc008osz.1	2.3	ENSMUST00000122237	-2.2
ENSMUST00000140578	2.3	uc009lwh.1	-2.2
ENSMUST00000157057	2.3	MM9LINCRNAEXON11643-	-2.2
ENSMUST00000148230	2.3	MM9LINCRNAEXON10397+	-2.2
AK137914	2.3	CB600303	-2.2
AK139572	2.3	AK157121	-2.2
AK140016	2.3	NR_024599	-2.2
ENSMUST00000119312	2.3	AK035726	-2.2
AK080595	2.3	uc009euf.1	-2.2
AK051292	2.2	AK016606	-2.2
HumanlincRNA1230-	2.2	ENSMUST00000166293	-2.2
MouselincRNA0467+	2.2	ENSMUST00000151817	-2.2
AK053902	2.2	MM9LINCRNAEXON11858+	-2.2
AK046927	2.2	AK006532	-2.2
MM9LINCRNAEXON10326+	2.2	ENSMUST00000137624	-2.2
ENSMUST00000161930	2.2	ENSMUST00000171204	-2.1
ENSMUST00000124095	2.2	ENSMUST00000118975	-2.1
ENSMUST00000117480	2.2	MM9LINCRNAEXON10861+	-2.1
ENSMUST00000141289	2.2	ENSMUST00000133596	-2.1
ENSMUST00000150202	2.2	uc008cjin.1	-2.1
ENSMUST00000121475	2.2	ENSMUST00000170085	-2.1
MM9LINCRNAEXON10498+	2.2	ENSMUST00000121119	-2.1
AJ250689	2.2	AK165431	-2.1
AK048173	2.2	ENSMUST00000171248	-2.1
uc009otm.1	2.2	ENSMUST00000141571	-2.1
ENSMUST00000119086	2.2	uc.282+	-2.1
ENSMUST00000166177	2.2	uc007zrw.1	-2.1
uc009idd.1	2.2	ENSMUST00000138819	-2.1
HumanlincRNA2361-	2.2	HumanlincRNA1397-	-2.1
MM9LINCRNAEXON11375-	2.2	AK005751	-2.1
MouselincRNA0563+	2.1	uc007mfi.1	-2.1
AK040431	2.1	ENSMUST00000121628	-2.1

microRNA and LncRNA for OB

ENSMUST00000163675	2.1	AK006605	-2.1
AK035544	2.1	ENSMUST00000119636	-2.1
AK086441	2.1	ENSMUST00000117229	-2.1
AK136816	2.1	uc007tqy.1	-2.1
uc009bis.1	2.1	uc007enj.1	-2.1
uc007lwb.1	2.1	uc008swv.1	-2.1
uc008oee.1	2.1	AK015342	-2.1
uc007duo.1	2.1	AI503302	-2.1
ENSMUST00000153332	2.1	ENSMUST00000169463	-2.1
HumanlincRNA0539+	2.1	uc.289-	-2.0
uc007emw.1	2.1	ENSMUST00000117873	-2.0
ENSMUST00000141679	2.1	ENSMUST00000121786	-2.0
uc007ghr.1	2.1	AK034419	-2.0
uc008jxb.1	2.1	AK140604	-2.0
uc.327+	2.1	ENSMUST00000171429	-2.0
ENSMUST00000118452	2.1	uc009sgo.1	-2.0
uc007qic.1	2.1	AK012612	-2.0
MM9LINC RNAEXON11440+	2.1	AK142674	-2.0
AK015082	2.1	ENSMUST00000166834	-2.0
uc007wcd.1	2.1	ENSMUST00000164048	-2.0
AK084577	2.1	humanlincRNA1953+	-2.0
ENSMUST00000137460	2.1	ENSMUST00000152968	-2.0
MM9LINC RNAEXON11344-	2.1	uc007qnc.1	-2.0
CR514387	2.1	MM9LINC RNAEXON10061-	-2.0
CN839888	2.1	uc.156-	-2.0
AK044317	2.1	ENSMUST00000117426	-2.0
HumanlincRNA0814-	2.1	NR_027831	-2.0
ENSMUST00000158657	2.1	ENSMUST00000151303	-2.0
AK086169	2.1		
AK042700	2.1		
ENSMUST00000147378	2.1		
ENSMUST00000134649	2.1		
AK009853	2.1		
ENSMUST00000154414	2.1		
ENSMUST00000139695	2.1		
uc007bft.1	2.1		
BC023846	2.1		
ENSMUST00000122319	2.0		
AK016056	2.0		
ENSMUST00000118378	2.0		
ENSMUST00000170463	2.0		
uc008txz.1	2.0		
AK043271	2.0		
AK140852	2.0		
AK087211	2.0		
HumanlincRNA1056-	2.0		
uc008vai.1	2.0		
HumanlincRNA1987+	2.0		
uc009mfz.1	2.0		
AK076567	2.0		

microRNA and LncRNA for OB

Table S4. Predicted target genes by 9 altered miRNAs in OB

miRNA name	OB/NC ratio	Regulation	Target gene	Software
mmu-miR-883b-5p	2.95	Up	STAG1	miRanda, Targetsca
	2.95	Up	CAMSAP1L1	miRanda, Targetsca
mmu-miR-709	2.55	Up	KRT80	miRanda, Targetsca
	2.55	Up	MECR	miRanda, Targetsca
	2.55	Up	GPA33	miRanda, Targetsca
	2.55	Up	CD3E	miRanda, Targetsca
	2.55	Up	NRF1	miRanda, Targetsca
	2.55	Up	AGPAT3	miRanda, Targetsca
	2.55	Up	NCOA3	miRanda, Targetsca
	2.55	Up	CDK2AP2	miRanda, Targetsca
	2.55	Up	VTA1	miRanda, Targetsca
	2.55	Up	ARAF	miRanda, Targetsca
	2.55	Up	PNKD	miRanda, Targetsca
	2.55	Up	FBX02	miRanda, Targetsca
	2.55	Up	HS3ST3B1	miRanda, Targetsca
	2.55	Up	CASP9	miRanda, Targetsca
	2.55	Up	FERMT1	miRanda, Targetsca
	2.55	Up	CAMK1G	miRanda, Targetsca
	2.55	Up	SLC2A10	miRanda, Targetsca
	2.53	Up	TRAPPC10	miRanda, Targetsca
	2.55	Up	SNX3	miRanda, Targetsca
	2.55	Up	CDC6	miRanda, Targetsca
2.55	Up	AJAP1	miRanda, Targetsca	
2.55	Up	EZR	miRanda, Targetsca	
2.55	up	THAP2	miRanda, Targetsca	
2.55	Up	PPP1R12C	miRanda, Targetsca	
mmu-miR-466f-3p	2.30	Up	RGS18	miRanda, Targetsca
	2.30	Up	TRAPPC6B	miRanda, Targetsca
	2.30	Up	SS18L1	miRanda, Targetsca
	2.30	Up	CDC7	miRanda, Targetsca
	2.30	Up	PGM2L1	miRanda, Targetsca
	2.30	Up	IL20	miRanda, Targetsca
	2.30	Up	PTPRK	miRanda, Targetsca
	2.30	Up	PUM1	miRanda, Targetsca
	2.30	Up	GABRB3	miRanda, Targetsca
	2.30	Up	ITSN1	miRanda, Targetsca
2.30	Up	DHX40	miRanda, Targetsca	
2.30	Up	DCUN1D4	miRanda, Targetsca	
mmu-miR-466e-5p	2.22	Up	CAT	miRanda, Targetsca
	2.22	Up	TRIOBP	miRanda, Targetsca
	2.22	Up	SLCO3A1	miRanda, Targetsca
	2.22	Up	SLCO2A1	miRanda, Targetsca
	2.22	Up	VPS33B	miRanda, Targetsca
	2.22	Up	IL18R1	miRanda, Targetsca
	2.22	Up	PITPNB	miRanda, Targetsca
	2.22	Up	FNDC3A	miRanda, Targetsca
2.22	Up	LNX2	miRanda, Targetsca	

microRNA and LncRNA for OB

	2.22	Up	RSP01	miRanda, Targetsca
mmu-miR-466a-3p family	2.21	Up	CXCL5	miRanda, Targetsca
	2.21	Up	UNK	miRanda, Targetsca
	2.21	Up	EIF2A	miRanda, Targetsca
	2.21	Up	TOPBP1	miRanda, Targetsca
	2.21	Up	PTPRR	miRanda, Targetsca
mmu-miR-151-5p	2.08	Up	ENC1	miRanda, Targetsca
	2.08	Up	COTL1	miRanda, Targetsca
	2.08	Up	MTCH1	miRanda, Targetsca
mmu-miR-690	2.02	Up	HINT3	miRanda, Targetsca
mmu-miR-338-3p	0.42	Down	TAF2	miRanda, Targetsca
	0.42	Down	DNAJC6	miRanda, Targetsca
	0.42	Down	SNAP29	miRanda, Targetsca
	0.42	Down	DIP2C	miRanda, Targetsca
	0.42	Down	PHF20	miRanda, Targetsca