

**Table S2. a list of miRNAs significantly changed in BAT after cold exposure**

<b>miRNA_ID</b>	<b>BAT 28 °C</b>	<b>BAT 4 °C</b>	<b>log<sub>2</sub>(foldchange) </b>	<b>P-value</b>	<b>Significance</b>
mmu-miR-204-3p	0.0000	0.4868	12.2492	0.0000	**
mmu-miR-1957b	0.0000	0.4857	12.2458	0.0000	**
mmu-miR-3074-5p	0.0000	0.4857	12.2458	0.0000	**
mmu-miR-384-5p	0.4795	0.0000	12.2273	0.0000	**
mmu-miR-296-3p	0.4278	0.0000	12.0627	0.0000	**
mmu-miR-92a-1-5p	0.4277	0.0000	12.0623	0.0000	**
mmu-miR-196b-5p	0.4196	0.0000	12.0347	0.0000	**
mmu-miR-1a-2-5p	0.4196	0.0000	12.0347	0.0000	**
mmu-miR-493-3p	0.0000	0.3979	11.9583	0.0000	**
mmu-miR-5709-5p	0.0000	0.3979	11.9583	0.0000	**
mmu-miR-183-3p	0.3948	0.0000	11.9468	0.0000	**
mmu-miR-542-5p	0.3948	0.0000	11.9468	0.0000	**
mmu-miR-770-3p	0.3896	0.0000	11.9277	0.0000	**
mmu-miR-1943-3p	0.0000	0.3895	11.9273	0.0000	**
mmu-miR-6966-3p	0.0000	0.3895	11.9273	0.0000	**
mmu-miR-3544-3p	0.0000	0.3885	11.9238	0.0000	**
mmu-miR-6516-3p	0.0000	0.3885	11.9238	0.0000	**
mmu-miR-483-5p	0.3667	0.0000	11.8403	0.0000	**
mmu-miR-351-3p	0.3619	0.0000	11.8214	0.0000	**
mmu-miR-669n	0.3619	0.0000	11.8214	0.0000	**
mmu-miR-300-5p	0.3596	0.0000	11.8122	0.0000	**
mmu-miR-1982-3p	0.0000	0.3570	11.8017	0.0000	**
mmu-miR-467d-5p	0.0000	0.3570	11.8017	0.0000	**
mmu-miR-5101	0.0000	0.3570	11.8017	0.0000	**
mmu-miR-6900-3p	0.0000	0.3570	11.8017	0.0000	**
mmu-miR-384-3p	0.0000	0.3562	11.7983	0.0000	**
mmu-miR-1191b-5p	0.3361	0.0000	11.7147	0.0000	**
mmu-miR-452-5p	0.3361	0.0000	11.7147	0.0000	**
mmu-miR-582-5p	0.3361	0.0000	11.7147	0.0000	**
mmu-miR-7083-5p	0.3361	0.0000	11.7147	0.0000	**
mmu-miR-1961	0.0000	0.3316	11.6952	0.0000	**
mmu-miR-3475-3p	0.0000	0.3316	11.6952	0.0000	**
mmu-miR-1949	0.3296	0.0000	11.6866	0.0000	**
mmu-miR-181b-1-3	0.3290	0.0000	11.6839	0.0000	**
mmu-miR-466f-3p	0.3290	0.0000	11.6839	0.0000	**
mmu-miR-496a-3p	0.3290	0.0000	11.6839	0.0000	**
mmu-miR-6392-5p	0.3290	0.0000	11.6839	0.0000	**
mmu-miR-6944-3p	0.3290	0.0000	11.6839	0.0000	**
mmu-miR-6946-3p	0.3290	0.0000	11.6839	0.0000	**
mmu-miR-3066-5p	0.0000	0.3246	11.6643	0.0000	**
mmu-miR-5615-3p	0.0000	0.3246	11.6643	0.0000	**
mmu-miR-3084-3p	0.0000	0.3238	11.6607	0.0000	**

mmu-miR-33-3p	0.0000	0.3238	11.6607	0.0000	**
mmu-miR-497a-3p	0.3056	0.0000	11.5773	0.0000	**
mmu-miR-203-5p	73.7660	243.5072	1.7229	0.0000	**
mmu-miR-3065-5p	5.8604	16.9370	1.5311	0.0000	**
mmu-miR-133a-3p	6030.7385	2468.1280	1.2889	0.0000	**
mmu-miR-1a-3p	42648.5241	17684.4320	1.2700	0.0000	**
mmu-miR-182-5p	664.1259	1542.5700	1.2158	0.0000	**
mmu-miR-1b-5p	12331.6748	5483.3207	1.1692	0.0000	**
mmu-miR-455-5p	497.9211	1040.6077	1.0634	0.0000	**
mmu-miR-1a-1-5p	251.7390	93.7025	1.4258	0.0000	**
mmu-miR-133a-5p	167.9051	75.2024	1.1588	0.0000	**
mmu-miR-6715-5p	0.0000	2.5784	14.6542	0.0000	**
mmu-miR-3073a-3p	1.5094	6.0734	2.0085	0.0000	**
mmu-miR-182-3p	0.0000	1.5695	13.9380	0.0000	**
mmu-miR-1968-5p	0.7931	3.2581	2.0384	0.0000	**
mmu-miR-147-3p	2.8497	6.5799	1.2072	0.0000	**
mmu-miR-135a-5p	1.4642	0.0000	13.8378	0.0000	**
mmu-miR-9769-3p	0.0000	1.2406	13.5988	0.0000	**
mmu-miR-1941-5p	2.7880	5.9107	1.0841	0.0002	**
mmu-miR-7068-3p	0.2997	1.5706	2.3899	0.0010	**
mmu-miR-539-5p	1.0512	0.0000	13.3597	0.0010	**
mmu-miR-363-3p	3.1794	0.9404	1.7575	0.0012	**
mmu-miR-1954	0.0000	0.7881	12.9442	0.0022	**
mmu-miR-467b-5p	0.0000	0.7865	12.9412	0.0022	**
mmu-miR-150-3p	3.9748	1.6010	1.3119	0.0031	**
mmu-miR-491-5p	0.8501	0.0000	13.0535	0.0036	**
mmu-miR-23b-5p	0.8474	0.0000	13.0488	0.0036	**
mmu-miR-874-3p	2.5947	0.9193	1.4969	0.0057	**
mmu-miR-1947-5p	1.5564	3.1343	1.0100	0.0061	**
mmu-miR-137-3p	0.6957	0.0000	12.7642	0.0068	**
mmu-miR-205-5p	0.0000	0.5828	12.5088	0.0099	**
mmu-miR-672-5p	0.6944	0.0000	12.7616	0.0128	*
mmu-miR-196a-5p	0.5994	0.0000	12.5492	0.0128	*
mmu-miR-673-3p	2.1282	0.7880	1.4334	0.0191	*
mmu-miR-6964-3p	0.5922	0.0000	12.5318	0.0240	*
mmu-miR-449a-5p	0.5806	0.0000	12.5032	0.0240	*
mmu-miR-3061-3p	0.7873	1.6646	1.0803	0.0357	*
mmu-miR-652-5p	1.0877	0.3246	1.7446	0.0400	*
mmu-miR-6911-3p	1.0589	0.3238	1.7095	0.0400	*
mmu-miR-2137	0.3896	1.0370	1.4125	0.0431	*
mmu-miR-7213-3p	0.5264	1.2076	1.1980	0.0533	
mmu-miR-669o-5p	1.2427	0.3895	1.6739	0.0583	
mmu-miR-1306-3p	1.0176	0.3246	1.6485	0.0623	
mmu-miR-701-5p	0.3290	0.7881	1.2603	0.0940	

mmu-miR-6899-3p	0.9189	0.3246	1.5013	0.0958
mmu-miR-547-3p	0.8791	0.3316	1.4065	0.0958
mmu-miR-6921-3p	1.6875	0.7867	1.1010	0.1065
mmu-miR-490-3p	0.9672	0.3648	1.4069	0.1292
mmu-miR-31-5p	1.0276	0.3885	1.4032	0.1292
mmu-miR-331-5p	1.5981	0.7457	1.0997	0.1455
mmu-miR-592-5p	1.5647	0.7535	1.0541	0.1455
mmu-miR-146b-3p	0.9378	0.3570	1.3934	0.1881
mmu-miR-344-3p	0.7251	0.3246	1.1597	0.2172
mmu-miR-20a-3p	0.8114	0.3570	1.1845	0.2695
mmu-miR-222-5p	0.3596	0.7209	1.0035	0.2772
mmu-miR-129-1-3p	0.6944	0.3238	1.1009	0.3185
mmu-miR-466h-5p	0.6663	0.3246	1.0377	0.3185
mmu-miR-7075-3p	0.6586	0.3246	1.0210	0.3185

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\*\*, $P < 0.01$ ; \*, $P < 0.05$