

Supplemental Table 1: Differential expression of miRNAs, based on microarray data, between *C. parvum*-treated and control wild-type mice.

<u>MiRNA Probe</u>	<u>MIRNA</u>	<u>P-Val</u>	<u>FDR</u>	<u>Fold change C. Parv vs. Control</u>	<u>Location</u>	<u>Host Gene</u>
mmu-mir-486-a	mmu-miR-486	0.00003	0.001	5.28	8qA2	Ank1, Q02357-2, Q02357-8
mmu-mir-451-a	mmu-miR-451	0.00007	0.002	3	11qB5	intergenic
mmu-mir-222-a	mmu-miR-222	0.00024	0.003	2.32	XqA1.3	intergenic
mmu-mir-7-2-a	mmu-miR-7a2	0.00002	0.001	2.19	7qD3	intergenic
mmu-mir-448-a	mmu-miR-448	0.00189	0.014	1.91	XqF2	Htr2c
mmu-mir-483-a	mmu-miR-483*	0.00193	0.014	1.89	7qF5	Igf2
mmu-mir-702-a	mmu-miR-702	0.000001	0	1.84	5qG2	Plod3
mmu-mir-22-a	mmu-mir-22	0.00132	0.012	1.72	11qB5	RP23-384C18.7
mmu-mir-328-a	mmu-mir-328	0.0085	0.031	1.67	8qD3	Elmo3
mmu-mir-196a-2-a	mmu-mir-196a-2	0.00134	0.012	1.64	15qF3	intergenic
mmu-mir-223-a	mmu-mir-223	0.00008	0.002	1.63	XqC3	intergenic
mmu-mir-27a-a	mmu-mir-27a	0.00567	0.027	1.62	8qC3	intergenic
mmu-mir-200b-p	mmu-mir-200b	0.00544	0.026	1.6	4qE2	RP23, Tll10
mmu-mir-9-3-5p-a	mmu-mir-9-3	0.00369	0.021	1.59	7qD3	intergenic
mmu-mir-290-a	mmu-mir-290	0.00528	0.026	1.51	7qA1	intergenic
mmu-mir-29c-p	mmu-mir-29c	0.00137	0.012	1.4	1qH6	intergenic
mmu-mir-212-a	mmu-mir-212	0.00167	0.013	1.38	11qB5	RP23-143A14
mmu-mir-497-a	mmu-miR-497	0.00155	0.013	1.37	11qB3	intergenic
mmu-mir-487b-a	mmu-mir-487b	0.00326	0.019	1.36	12qF1	intergenic
mmu-mir-92-1-a	mmu-mir-92a	0.00496	0.025	1.19	14qE4	intergenic
mmu-mir-23a-a	mmu-mir-23a	0.00155	0.013	0.8	8qC3	intergenic
mmu-mir-26a-1-a	mmu-mir-26a-1	0.00441	0.023	0.71	9qF3	Ctdspl
mmu-mir-682-a	mmu-mir-682	0.00015	0.002	0.71	13qC1	ENSMUST00000099371
mmu-mir-26a-2-a	mmu-mir-26a-2	0.00608	0.027	0.71	10qD3	Ctdsp2
mmu-mir-99b-a	mmu-mir-99b	0.00589	0.027	0.7	17qA3.2	intergenic
mmu-mir-181a-5p-a	mmu-miR-181a1	0.00028	0.004	0.32	1qE4	intergenic
mmu-mir-181c-a	mmu-mir-181c	0.00051	0.006	0.31	8qC3	intergenic
mmu-mir-99a-a	mmu-mir-99a	0.00047	0.006	0.29	16qC3.1	ENSMUST00000114231
mmu-mir-143-a	mmu-mir-143	0.00837	0.031	0.26	18qE1	intergenic
mmu-mir-703-a	mmu-miR-703	0.00001	0.001	0.26	5qE3	1700007G11Rik
mmu-mir-699-a	mmu-miR-699	0.00001	0.001	0.19	4qB1	intergenic
mmu-mir-214-a	mmu-miR-214	0.00003	0.001	0.61	1qH2.1	Dnm3
mmu-mir-320-a	mmu-miR-320	0.00244	0.016	0.61	14qD2	intergenic

mmu-mir-297-2-a	mmu-mir-297a-2	0.00738	0.029	0.6	10qB2	Sobp
mmu-mir-24-1-3p-a	mmu-miR-24-1	0.00001	0.001	0.6	13qB3	2010111101Rik
mmu-mir-192-a	mmu-miR-192	0.00713	0.028	0.59	19qA	intergenic
mmu-mir-150-a	mmu-miR-150	0.0065	0.027	0.59	7qB4	intergenic
mmu-mir-152-a	mmu-miR-152	0.00776	0.03	0.56	11qD	Copz2
mmu-mir-706-a	mmu-mir-706	0.0058	0.027	0.55	6qF1	Wnk1
mmu-mir-28-p	mmu-miR-28*	0.00025	0.003	0.49	16qB1	Lpp
mmu-mir-341-a	mmu-miR-341	0.00089	0.009	0.48	12qF1	intergenic
mmu-mir-7-1-p	mmu-miR-7a*	0.00502	0.025	0.47	13qB1	Hnrpk
mmu-mir-140*-3p-a	mmu-mir-140*	0.00249	0.016	0.46	8qD3	Wwp2
mmu-mir-10b-a	mmu-miR-10b	0.00571	0.027	0.46	2qC3	Hoxd3/Hoxd4
mmu-mir-500-a	mmu-miR-500	0.00285	0.017	0.46	XqA1.1	Clcn5
mmu-mir-29b-2-a	mmu-miR-29b-2	0.00053	0.006	0.46	1qH6	intergenic
mmu-mir-29c-a	mmu-miR-29c	0.00323	0.019	0.45	1qH6	intergenic
mmu-mir-181b-2-a	mmu-miR-181b-2	0.00694	0.028	0.45	2qB	Nr6a1
mmu-mir-361-a	mmu-mir-361	0.00838	0.031	0.44	XqE1	Chm
mmu-mir-29b-1-a	mmu-miR-29b-1	0.00008	0.002	0.44	6qA3.3	intergenic
mmu-mir-213-a	mmu-mir-181b	0.00398	0.022	0.43	1qE4	intergenic
mmu-mir-199a*-2-3p-a	mmu-miR-199a-1	0.00015	0.002	0.42	9qA3	Dnm2
mmu-mir-196a-2-p	mmu-miR-196a*	0.00009	0.002	0.41	15qF3	intergenic
mmu-mir-29b-a	mmu-miR-29b-1	0.00007	0.002	0.41	6qA3.3	intergenic
mmu-mir-29a-a	mmu-miR-29a	0.0011	0.01	0.4	6qA3.3	intergenic
mmu-mir-199a*-3p-a	mmu-miR-199a-1	0.00013	0.002	0.4	9qA3	Dnm2
mmu-mir-199a*-1-3p-a	mmu-miR-199a-1	0.0001	0.002	0.4	9qA3	Dnm2
mmu-mir-34a-a	mmu-mir-34a	0.00948	0.033	0.39	4qE2	intergenic
mmu-mir-203-a	mmu-miR-203	0.00696	0.028	0.39	12qF1	intergenic
mmu-mir-145-a	mmu-miR-145	0.00012	0.002	0.38	18qE1	intergenic
mmu-mir-100-a	mmu-miR-100	0.00019	0.003	0.37	9qA5.1	intergenic
mmu-mir-215-a	mmu-miR-215	0.00222	0.016	0.36	1qH5	lars2
mmu-mir-138-a-2	mmu-miR-138	0.00196	0.014	0.36	8qC5	intergenic
mmu-mir-30a-3p-a	mmu-miR-30a*	0.0062	0.027	0.35	1qA5	intergenic

Supplemental Table 2: Differential expression of miRNAs, based on microarray data, between *C. parvum*-treated and control NOS2 knockout mice.

<u>MiRNA Probe</u>	<u>MIRNA</u>	<u>P-Val</u>	<u>FDR</u>	<u>Fold change C. Parv vs. Control</u>	<u>Location</u>	<u>Host Gene</u>
mmu-mir-486-a	mmu-miR-486	0.003628	0.032	4.3065002	8qA2	Ank1, Q02357-2, Q02357-8
mmu-mir-7-2-a	mmu-miR-7a2	0.001731	0.023	1.9866787	7qD3	intergenic
mmu-mir-702-a	mmu-miR-702	0.007551	0.048	1.8656503	5qG2	Plod3
mmu-mir-222-a	mmu-miR-222	0.001566	0.022	1.7459383	XqA1.3	intergenic
mmu-mir-497-a	mmu-miR-497	0.002111	0.024	1.6810937	11qB3	intergenic
mmu-mir-451-a	mmu-miR-451	0.009039	0.055	1.6321711	11qB5	intergenic
mmu-mir-330-p	mmu-miR-330	0.004279	0.036	1.6224153	7qA3	Eml2
mmu-mir-223-a	mmu-miR-223	3.01E-05	0.003	1.5079849	XqC3	intergenic
mmu-mir-21-a	mmu-miR-21	0.000659	0.017	1.5013322	11qC	Tmem49, RP23-467J12.4-001
mmu-mir-346-a	mmu-miR-346	0.000447	0.016	1.3515956	14qB	Grid1
mmu-mir-293-a	mmu-miR-293	0.009632	0.058	0.6754114	7qA1	intergenic
mmu-mir-191-a	mmu-miR-191	0.003581	0.032	0.6503657	9qF2	intergenic
mmu-mir-350-a	mmu-miR-350	0.006362	0.043	0.6347267	1qH4	Cep170
mmu-mir-181b-2-a	mmu-miR-181b2	0.000531	0.017	0.6306914	2qB	Nr6a1
mmu-mir-24-1-3p-a	mmu-miR-24-1	0.005264	0.04	0.5830452	13qB3	201011101Rik
mmu-mir-145-a	mmu-miR-145	0.00472	0.037	0.5319038	18qE1	intergenic
mmu-mir-29b-2-a	mmu-miR-29b-2	0.006869	0.045	0.5296058	1qH6	intergenic
mmu-mir-29a-a	mmu-miR-29a	0.003342	0.032	0.5275639	6qA3.3	intergenic
mmu-mir-100-a	mmu-miR-100	0.006233	0.043	0.4929604	9qA5.1	intergenic
mmu-mir-7-1-p	mmu-miR-7a*	0.004432	0.036	0.4871287	13qB1	Hnrpk
mmu-mir-99a-a	mmu-miR-99a	0.006783	0.045	0.48036	16qC3.1	ENSMUST00000114231
mmu-mir-29b-1-a	mmu-miR-29b1	0.001331	0.021	0.4654417	6qA3.3	intergenic
mmu-mir-374-5p-a	mmu-miR-374	0.002855	0.031	0.4551034	XqD	intergenic
mmu-mir-29b-a	mmu-miR-29b1	0.000838	0.017	0.4428428	6qA3.3	intergenic
mmu-mir-699-a	mmu-miR-699	0.005792	0.041	0.4347244	4qB1	intergenic
mmu-mir-143-a	mmu-miR-143	0.000602	0.017	0.4279341	18qE1	intergenic
mmu-mir-29c-a	mmu-miR-29c	0.000231	0.016	0.426982	1qH6	intergenic
mmu-mir-181a-5p-a	mmu-miR-181a1	0.000005	0.001	0.4178815	1qE4	intergenic
mmu-let-7f-1-a	mmu-let-7f-1	0.000965	0.017	0.3740281	13qA5	intergenic
mmu-mir-181c-a	mmu-miR-181c	7.1E-06	0.001	0.3732678	8qC3	intergenic
mmu-mir-150-a	mmu-miR-150	0.000712	0.017	0.30775	7qB4	intergenic
mmu-mir-329-a	mmu-miR-329	0.001198	0.019	2.9623986	12qF1	intergenic
mmu-mir-361-a	mmu-miR-361	0.003111	0.032	0.6709635	XqE1	Chm
mmu-mir-213-a	mmu-miR-181b-1	0.000876	0.017	0.6562348	1qE4	intergenic

mmu-mir-140*-3p-a	mmu-miR-140*	0.003978	0.034	0.5773119	8qD3	Wwp2
mmu-mir-24-2-a/p	mmu-miR-24-2	0.008887	0.055	0.5548202	8qC3	intergenic
mmu-mir-425-p	mmu-miR-425	0.000734	0.017	0.5124673	9qF2	intergenic
mmu-mir-199a*-3p-a	mmu-miR-199a-1	0.00349	0.032	0.4501314	9qA3	Dnm2
mmu-mir-199a*-1-3p-a	mmu-miR-199a-1	0.002791	0.031	0.3670654	9qA3	Dnm2

Supplemental Table 3: Differential expression of miRNAs, based on microarray data, between *C. parvum* treated and control p53 knockout mice.

<u>MiRNA Probe</u>	<u>MiRNA</u>	<u>P-Val</u>	<u>FDR</u>	<u>Fold change</u> <u>C. Parv vs.</u> <u>Control</u>	<u>Location</u>	<u>Host Gene</u>
mmu-mir-486-a	mmu-miR-486	0.000144	0.0054636	5.49	8qA2	Ank1, Q02357-2, Q02357-8
mmu-mir-451-p	mmu-miR-451	0.002187	0.0196976	3.13	11qB5	intergenic
mmu-mir-486-p	mmu-miR-486	0.004523	0.0283081	2.4	8qA2	Ank1, Q02357-2, Q02357-8
mmu-mir-222-a	mmu-miR-222	0.000119	0.0054636	2.39	XqA1.3	intergenic
mmu-mir-451-a	mmu-miR-451	0.003367	0.0230202	2.23	11qB5	intergenic
mmu-mir-207-a	mmu-miR-207	0.004686	0.0287318	1.93	4qA5	Dnaja1
mmu-mir-326-a	mmu-miR-326	0.00531	0.0319595	1.77	7qE2	Arrb1
mmu-mir-702-a	mmu-miR-702	0.003628	0.0240606	1.71	5qG2	Plod3
mmu-mir-328-a	mmu-miR-328	0.007963	0.0386246	1.69	8qD3	Elmo3
mmu-mir-223-a	mmu-miR-223	0.005804	0.0322758	1.69	XqC3	intergenic
mmu-mir-290-a	mmu-miR-290-5p	0.002465	0.0205442	1.68	7qA1	intergenic
mmu-mir-330-p	mmu-miR-330	0.003376	0.0230202	1.61	7qA3	Emi2
mmu-mir-335-p	mmu-miR-335	0.005446	0.0321791	1.52	6qA3.3	Mest
mmu-mir-125b-1-a	mmu-miR-125b-2	0.005694	0.0322758	0.49	16qC3.1	intergenic
mmu-mir-213-a	mmu-miR-181b-1	0.000284	0.0082008	0.49	1qE4	intergenic
mmu-mir-29a-a	mmu-miR-29a	0.000377	0.0094325	0.48	6qA3.3	intergenic
mmu-mir-374-5p-a	mmu-miR-374	0.004529	0.0283081	0.47	XqD	intergenic
mmu-mir-7-1-p	mmu-miR-7a1	0.001521	0.0190088	0.47	13qB1	Hnrpk
mmu-mir-500-a	mmu-miR-500	0.001717	0.0191132	0.47	XqA1.1	Clcn5
mmu-mir-145-a	mmu-miR-145	0.002184	0.0196976	0.46	18qE1	intergenic
mmu-mir-125b-2-a	mmu-miR-125b-2	0.002713	0.0217301	0.45	16qC3.1	intergenic
mmu-mir-29b-a	mmu-miR-29b1	0.000135	0.0054636	0.45	6qA3.3	intergenic
mmu-mir-199a*-1-3p-a	mmu-miR-199a-1	0.005635	0.0322758	0.45	9qA3	Dnm2
mmu-mir-139-a	mmu-miR-139	0.002052	0.0196976	0.44	7qE3	Pde2a
mmu-mir-29c-a	mmu-miR-29c	0.000467	0.0100811	0.44	1qH6	intergenic

mmu-mir-181b-2-a	mmu-miR-181b2	0.000303	0.0082008	0.44	2qB	Nr6a1
mmu-mir-532-p	mmu-miR-532	0.001656	0.0191132	0.43	18qE1	intergenic
mmu-mir-199a*-3p-a	mmu-miR-199a-1	0.001371	0.017823	0.43	9qA3	Dnm2
mmu-mir-143-a	mmu-miR-143	0.000496	0.0100811	0.43	18qE1	intergenic
mmu-mir-24-2-a/p	mmu-miR-24-2	0.000892	0.0132127	0.42	8qC3	intergenic
mmu-mir-181b-1-a	mmu-miR-181b1	0.000151	0.0054636	0.41	1qE4	intergenic
mmu-mir-100-a	mmu-miR-100	0.006096	0.0330216	0.41	9qA5.1	intergenic
mmu-mir-125b-a	mmu-miR-125b-2	0.000534	0.0101707	0.41	16qC3.1	intergenic
mmu-mir-99a-a	mmu-miR-99a	0.000563	0.0101707	0.39	16qC3.1	ENSMUST00000114231
mmu-mir-703-a	mmu-miR-703	0.000894	0.0132127	0.38	5qE3	1700007G11Rik
mmu-mir-181a-5p-a	mmu-miR-181a1	6.51E-05	0.0052894	0.35	1qE4	intergenic
mmu-mir-181c-a	mmu-miR-181c	0.000118	0.0054636	0.32	8qC3	intergenic
mmu-mir-297b-p	mmu-miR-297b	1.53E-05	0.0049725	0.31	2qA1	Sfmbt2
mmu-mir-699-a	mmu-miR-699	5.92E-05	0.0052894	0.27	4qB1	intergenic
