

Supplementary Table Legend

Supplementary Table 1: Differentially down regulated miRNAs in podocytes exposed to high glucose (25 mM) for 24 hrs.

Supplementary Table 2: Differentially down regulated miRNAs in cultured kidney microvascular endothelial cells exposed to high glucose (25 mM) for 24 hrs.

Supplementary Table 3: Differentially down regulated miRNAs in the glomeruli of db/db mice (20 weeks of age) compared to db/m mice.

Supplementary Table 4: Differentially down regulated miRNAs in all samples.

Supplementary Table -1

Name	p-value	Mean Group 1(0 hr)	Mean Group 2 (24 hr)	Log2 (G2/G1)
mmu-miR-1192	3.64E-04	405	78	-2.37
mmu-miR-690	1.42E-05	2,081	1,007	-1.05
mmu-miR-674*	2.63E-03	238	136	-0.81
mmu-miR-877	9.37E-03	136	80	-0.76
mmu-miR-699	2.38E-02	160	101	-0.66
mmu-miR-324-5p	1.95E-02	116	74	-0.66
mmu-miR-98	3.73E-02	583	381	-0.61
mmu-miR-92a	1.23E-02	511	338	-0.60
mmu-miR-125a-5p	2.49E-02	1,730	1,183	-0.55
mmu-miR-10a	4.67E-03	746	513	-0.54
mmu-miR-92b	1.80E-02	391	270	-0.53
mmu-miR-34c*	1.62E-02	492	341	-0.53
mmu-miR-744	2.52E-02	151	105	-0.53
mmu-miR-10b	8.99E-04	1,556	1,092	-0.51
mmu-miR-93	2.70E-03	831	585	-0.50
mmu-miR-30b	1.09E-02	706	522	-0.44
mmu-miR-22	1.07E-02	1,700	1,276	-0.41
mmu-miR-574-5p	2.56E-02	231	175	-0.40
mmu-miR-30e	3.49E-02	310	238	-0.38
mmu-miR-140*	2.50E-02	179	144	-0.32
mmu-miR-615-3p	3.44E-02	262	211	-0.31
mmu-miR-194	2.45E-02	209	170	-0.30
mmu-miR-191	2.71E-02	2,837	2,337	-0.28
mmu-miR-872	1.80E-02	197	163	-0.28
mmu-miR-185	3.48E-02	378	313	-0.27

mmu-miR-15b	2.98E-02	852	712	-0.26
mmu-miR-702	2.53E-02	130	111	-0.23
mmu-miR-182	1.65E-02	694	599	-0.21
mmu-miR-805	2.76E-02	363	313	-0.21
mmu-miR-20b	1.64E-02	168	147	-0.19
mmu-miR-674	7.64E-03	286	250	-0.19
mmu-miR-30c	2.18E-02	2,181	1,942	-0.17

Supplementary Table -2

Name	p-value	Mean Group 1(0hr)	Mean Group 2 (24hr)	Log2(G2/G1)
mmu-miR-1192	6.37E-05	185	44	-2.08
mmu-miR-669h-3p	2.15E-04	118	28	-2.05
mmu-miR-720	3.70E-09	339	114	-1.58
mmu-miR-222	2.41E-07	904	316	-1.52
mmu-miR-699	2.44E-05	132	50	-1.39
mmu-miR-140*	1.91E-07	268	108	-1.31
mmu-miR-34a	1.37E-07	326	134	-1.28
mmu-miR-18a	2.33E-06	632	263	-1.26
mmu-miR-674	8.82E-09	370	161	-1.20
mmu-miR-206	8.17E-07	253	112	-1.18
mmu-miR-1193	2.53E-03	171	78	-1.11
mmu-miR-34c	2.92E-03	210	99	-1.08
mmu-miR-214	1.34E-05	925	441	-1.07
mmu-miR-185	2.82E-06	435	221	-0.98
mmu-miR-674*	7.56E-06	208	106	-0.97
mmu-miR-17	8.02E-09	1,514	774	-0.97
mmu-miR-491	1.15E-03	160	84	-0.96
mmu-miR-7a	1.74E-02	353	182	-0.95
mmu-miR-124	2.17E-02	199	103	-0.95
mmu-miR-20a	8.81E-05	1,928	1,011	-0.93
mmu-miR-423-5p	3.67E-08	870	463	-0.91
mmu-miR-877	5.16E-04	169	90	-0.90
mmu-miR-93	2.08E-08	1,338	716	-0.90
mmu-miR-155	1.55E-05	2,525	1,351	-0.90
mmu-miR-320	9.24E-07	1,435	774	-0.89
mmu-miR-351	6.78E-03	773	418	-0.89
mmu-miR-378*	2.97E-03	176	93	-0.88
mmu-miR-34c*	2.28E-05	222	120	-0.88
mmu-miR-323-3p	2.00E-02	290	160	-0.88
mmu-miR-31	1.01E-05	1,286	701	-0.87
mmu-miR-412	3.36E-02	470	250	-0.87
mmu-miR-486	5.44E-04	178	98	-0.87
mmu-miR-17*	5.10E-04	158	90	-0.81
mmu-miR-379	3.15E-02	280	160	-0.81
mmu-miR-324-5p	2.80E-04	151	87	-0.80
mmu-miR-686	2.27E-03	320	180	-0.80
mmu-miR-103	7.08E-07	678	390	-0.80
mmu-miR-714	3.63E-04	171	99	-0.80

mmu-miR-425	2.74E-05	134	77	-0.80
mmu-miR-138	1.04E-03	390	231	-0.79
mmu-miR-92b	4.72E-06	1,460	845	-0.79
mmu-miR-449c	2.27E-02	332	189	-0.79
mmu-miR-302b*	2.42E-03	269	33	-0.79
mmu-miR-328	4.16E-05	184	106	-0.78
mmu-miR-338-5p	3.22E-03	299	178	-0.77
mmu-miR-151-3p	3.73E-05	554	326	-0.76
mmu-miR-92a	1.73E-06	2,663	1,580	-0.75
mmu-miR-532-5p	6.01E-05	213	131	-0.70
mmu-miR-805	8.00E-06	937	576	-0.70
mmu-miR-501-3p	2.62E-04	176	108	-0.70
mmu-miR-615-3p	7.96E-07	422	264	-0.68
mmu-miR-132	2.61E-02	154	98	-0.66
mmu-miR-29a	9.36E-05	5,422	3,488	-0.64
mmu-miR-188-5p	1.32E-02	450	281	-0.63
mmu-miR-34b-3p	8.71E-05	219	141	-0.63
mmu-miR-27b*	3.01E-05	188	123	-0.61
mmu-miR-692	3.70E-02	123	79	-0.61
mmu-miR-191	1.59E-05	1,009	663	-0.61
mmu-miR-107	1.89E-06	577	381	-0.60
mmu-miR-148a*	2.33E-02	320	206	-0.60
mmu-miR-143	3.58E-02	1,022	676	-0.60
mmu-miR-467a*	1.89E-02	389	267	-0.57
mmu-miR-151-5p	1.92E-02	1,207	815	-0.57
mmu-miR-128	3.13E-03	371	259	-0.52
mmu-miR-30c-2*	2.54E-04	114	81	-0.50
mmu-miR-145	2.83E-02	977	696	-0.49
mmu-miR-217	6.66E-03	120	79	-0.49
mmu-miR-125a-3p	3.17E-02	156	112	-0.48
mmu-miR-744	7.91E-03	137	100	-0.46
mmu-miR-106b	7.48E-05	1,185	867	-0.45
mmu-miR-197	5.91E-03	110	79	-0.45
mmu-miR-1198	2.16E-02	191	140	-0.45
mmu-miR-689	8.20E-04	268	203	-0.40
mmu-miR-345-5p	8.96E-03	134	103	-0.38
mmu-miR-22	6.55E-04	366	287	-0.35
mmu-miR-361	2.49E-02	682	534	-0.35
mmu-miR-181a	4.21E-03	237	187	-0.34
mmu-miR-484	1.65E-04	217	172	-0.33
mmu-miR-702	4.05E-02	108	85	-0.33
mmu-miR-182	1.57E-03	810	643	-0.33
mmu-miR-221	7.70E-03	499	398	-0.33
mmu-miR-19b	2.13E-02	686	551	-0.32

mmu-miR-99b	9.54E-03	1,901	1,532	-0.31
mmu-miR-183	8.67E-04	669	544	-0.30
mmu-miR-28	1.09E-03	321	262	-0.29
mmu-miR-24	4.25E-02	2,316	2,021	-0.20

Supplementary Table -3

Name	p-value	Mean		Log2 (G2/G1)
		Group 1(<i>db/m</i>)	Group 2 (<i>db/db</i>)	
mmu-miR-876-5p	6.65E-03	120	20	-2.59
mmu-miR-343	6.37E-04	132	25	-2.38
mmu-miR-200c	4.62E-02	304	97	-1.65
mmu-miR-762	2.38E-03	468	197	-1.25
mmu-miR-99b	4.10E-02	757	363	-1.06
mmu-miR-92a	2.84E-03	283	137	-1.04
mmu-miR-320	2.68E-02	439	217	-1.02
mmu-miR-127	2.15E-03	130	65	-0.97
mmu-miR-25	1.07E-03	231	123	-0.91
mmu-miR-322*	6.65E-03	105	60	-0.82
mmu-miR-145	3.01E-02	5,601	3,251	-0.78
mmu-miR-214	2.20E-02	347	202	-0.78
mmu-miR-698	2.67E-02	141	85	-0.76
mmu-miR-361	2.51E-03	230	138	-0.73
mmu-miR-151-5p	1.69E-02	888	535	-0.73
mmu-miR-92b	1.37E-02	341	219	-0.65
mmu-miR-140*	7.86E-03	260	169	-0.62
mmu-miR-24	3.05E-03	6,919	4,540	-0.61
mmu-miR-20a	1.44E-02	115	78	-0.57
mmu-miR-93	2.50E-03	147	100	-0.55
mmu-miR-10b	2.35E-02	297	202	-0.55
mmu-miR-195	1.70E-02	666	465	-0.52
mmu-miR-191	2.11E-02	990	705	-0.49
mmu-miR-17	1.69E-02	149	106	-0.49

mmu-miR-532-5p	1.64E-02	152	119	-0.43
mmu-miR-23b	9.90E-03	14,200	10,578	-0.42
mmu-miR-181a	1.07E-02	217	164	-0.40
mmu-miR-143	1.05E-02	4,793	3,626	-0.40
mmu-miR-151-3p	1.17E-02	429	331	-0.36
mmu-let-7e	2.95E-02	327	257	-0.35
mmu-miR-132	2.82E-02	174	134	-0.35
mmu-miR-497	2.19E-02	143	113	-0.34
mmu-let-7c	1.63E-02	3,033	2,421	-0.33
mmu-let-7b	1.79E-02	2,218	1,789	-0.31
mmu-let-7i	1.34E-02	1,137	924	-0.30
mmu-miR-378	1.55E-02	207	173	-0.26
mmu-miR-30d	1.73E-02	941	786	-0.26
mmu-miR-23a	2.19E-02	7,691	6,540	-0.23
mmu-miR-199a-3p	1.12E-02	117	100	-0.22
mmu-miR-27b	1.69E-02	2,766	2,408	-0.20
mmu-miR-103	1.23E-02	731	667	-0.13
mmu-let-7d	2.76E-02	2,108	1,971	-0.10
mmu-miR-107	2.20E-02	662	619	-0.10
mmu-let-7a	3.04E-02	1,951	1,869	-0.06
mmu-miR-709	3.22E-02	10,971	10,640	-0.04

Supplementary Table -4

1	mmu-miR-92a
2	mmu-miR-92b
3	mmu-miR-93
4	mmu-miR-191
5	mmu-miR-140*