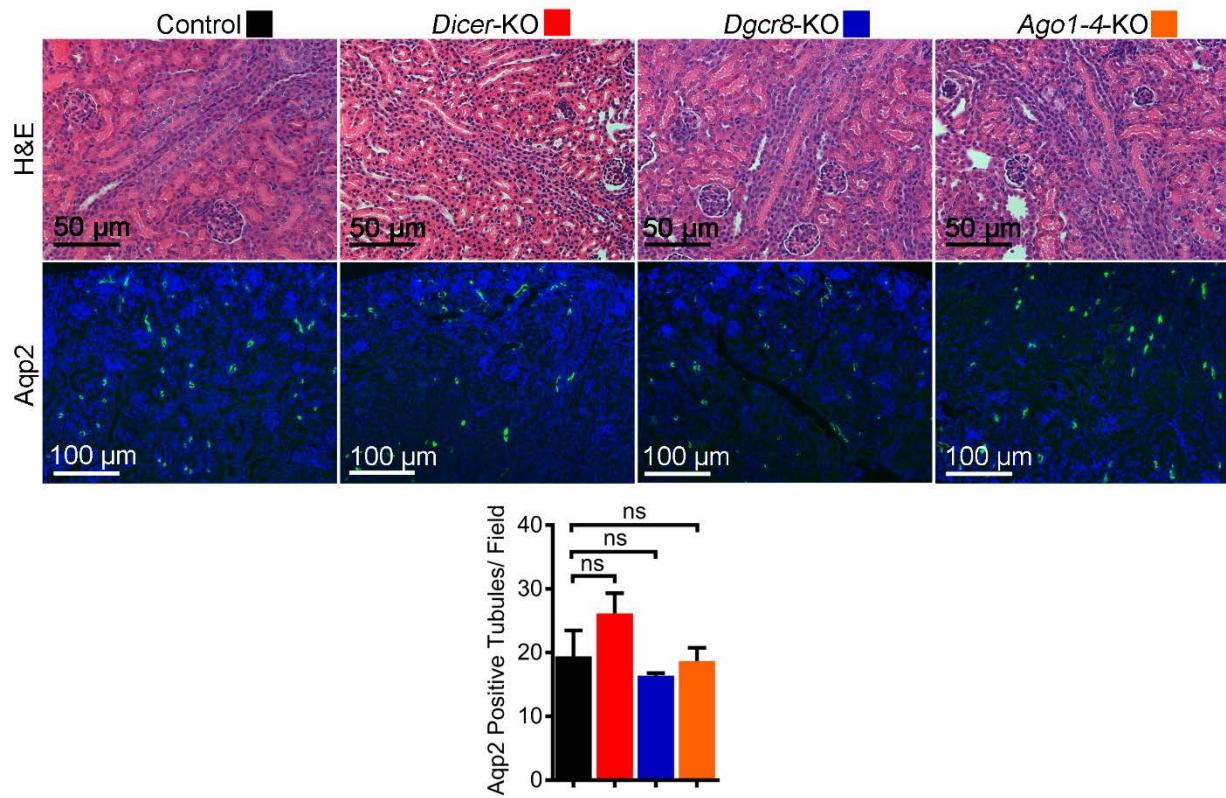
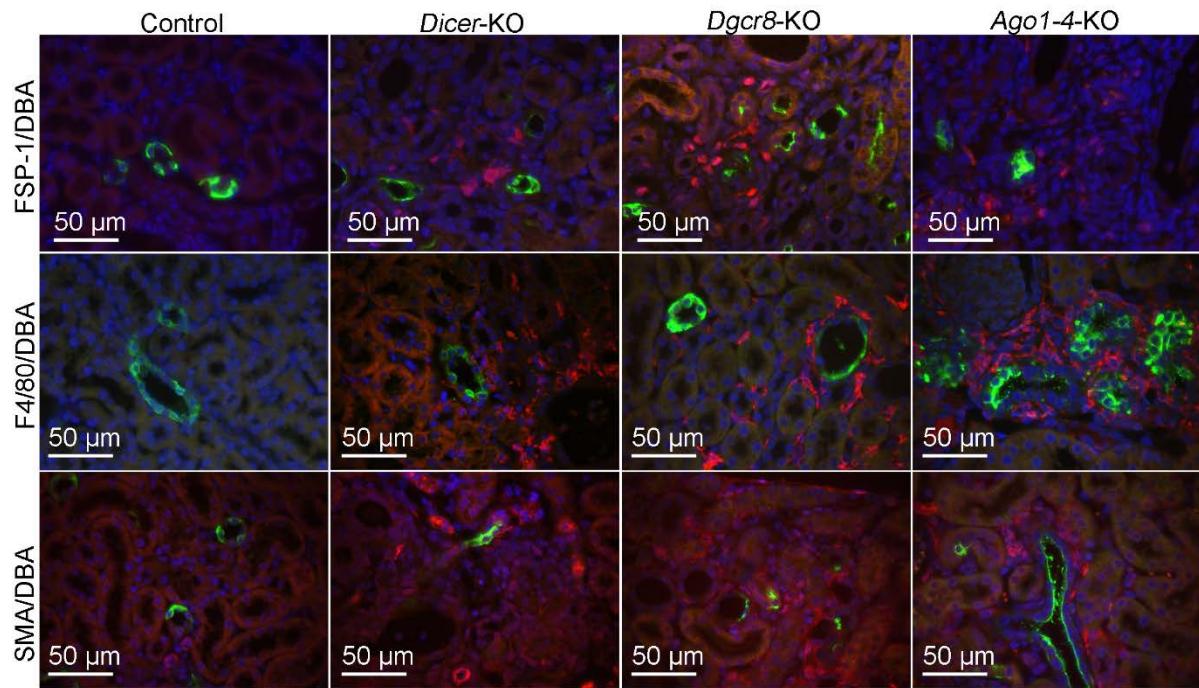


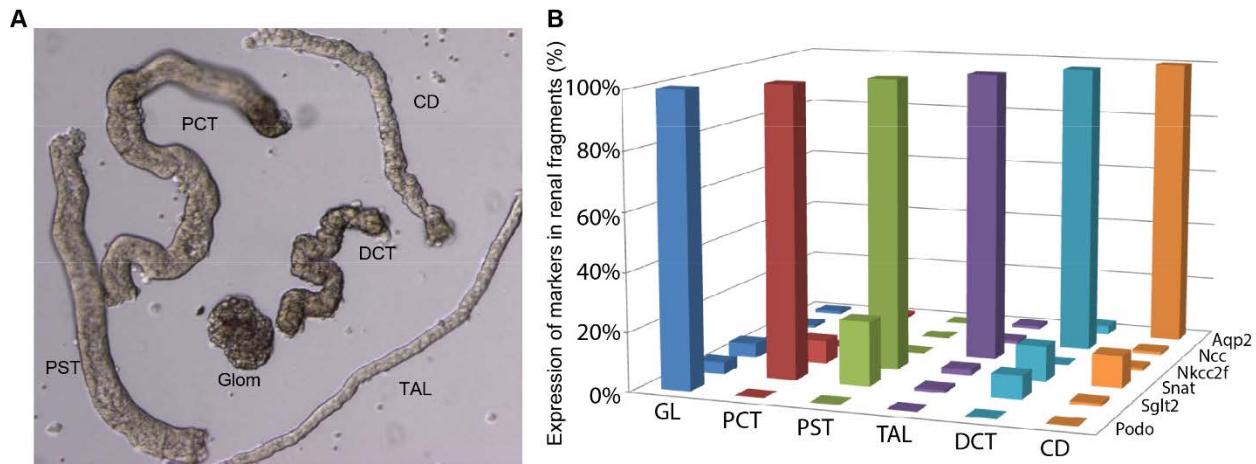
Supplementary Figure 1: Kidneys from 5-week-old Pkhd1/Cre; R26R-EYFP reporter mice were co-stained with GFP and collecting duct markers Aquaporin-2 (**A**) or DBA (**B**). Consistent with previous studies, we observed that a 100% of EYFP⁺ tubules were also positive for Aquaporin-2 and DBA.



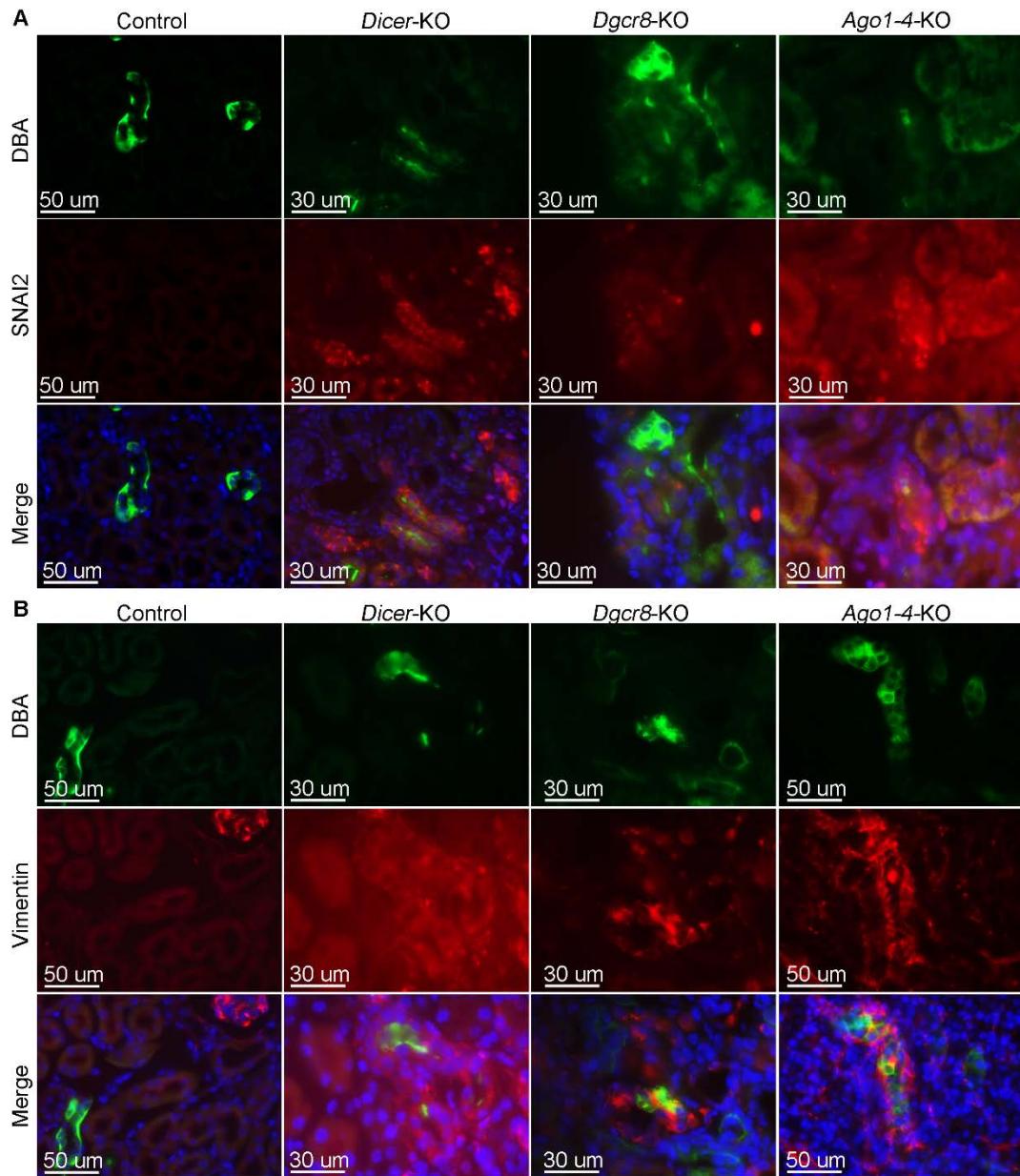
Supplementary Figure 2: *Dicer*-KO, *Dgcr8*-KO, and *Ago1-4*-KO mice exhibit normal kidney histology at P14. H&E staining of kidney sections from control, *Dicer*-KO, *Dgcr8*-KO, and *Ago1-4*-KO mice is shown (top panel). Anti-Aquaporin 2 staining showed an equal number of collecting ducts in kidneys of *Dicer*-KO, *Dgcr8*-KO, and *Ago1-4*-KO mice compared to control mice (middle panel). Quantification of number of Aquaporin-2 positive tubules shown (bottom panel). P indicates postnatal day. ns indicates $P > 0.05$.



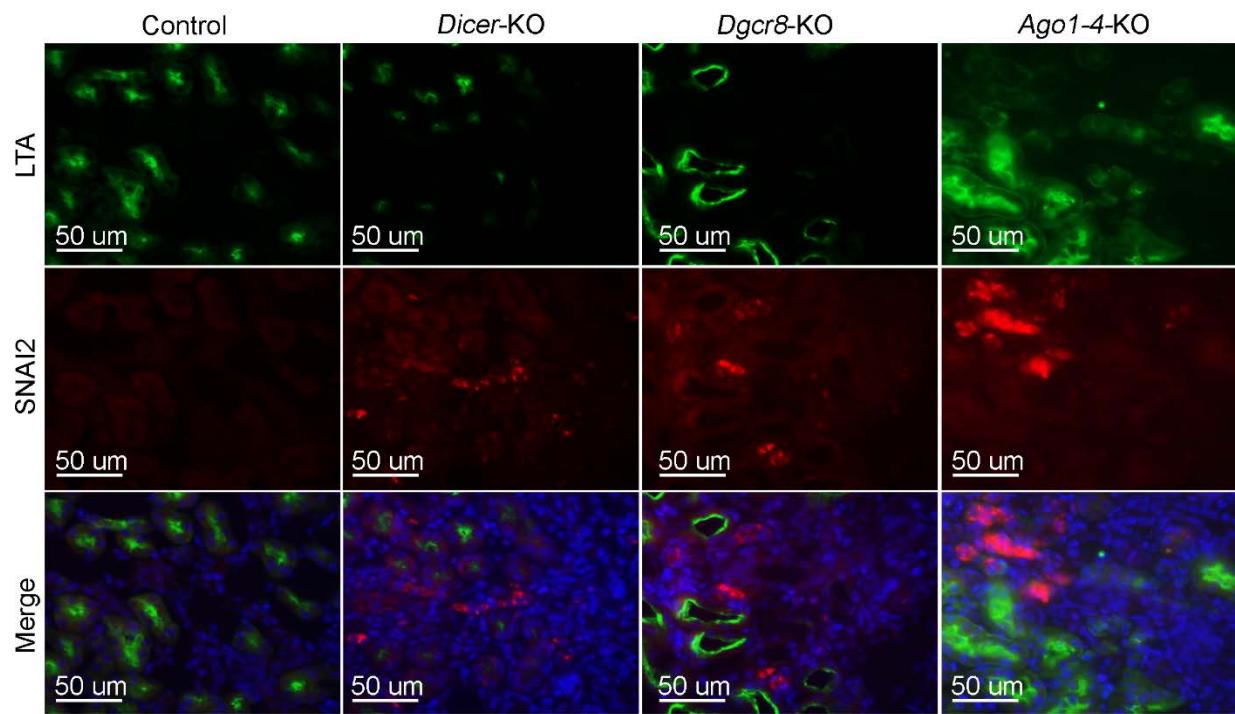
Supplementary Figure 3: Inflammatory infiltrates surround mutant collecting ducts.
Kidneys from 5 week old control, *Dicer*-KO, *Dgcr8*-KO, and *Ago1-4*-KO mice were stained with antibodies against FSP-1, F4/80, and SMA. To determine the localization of these markers in reference to CDs, kidneys were co-stained with DBA.



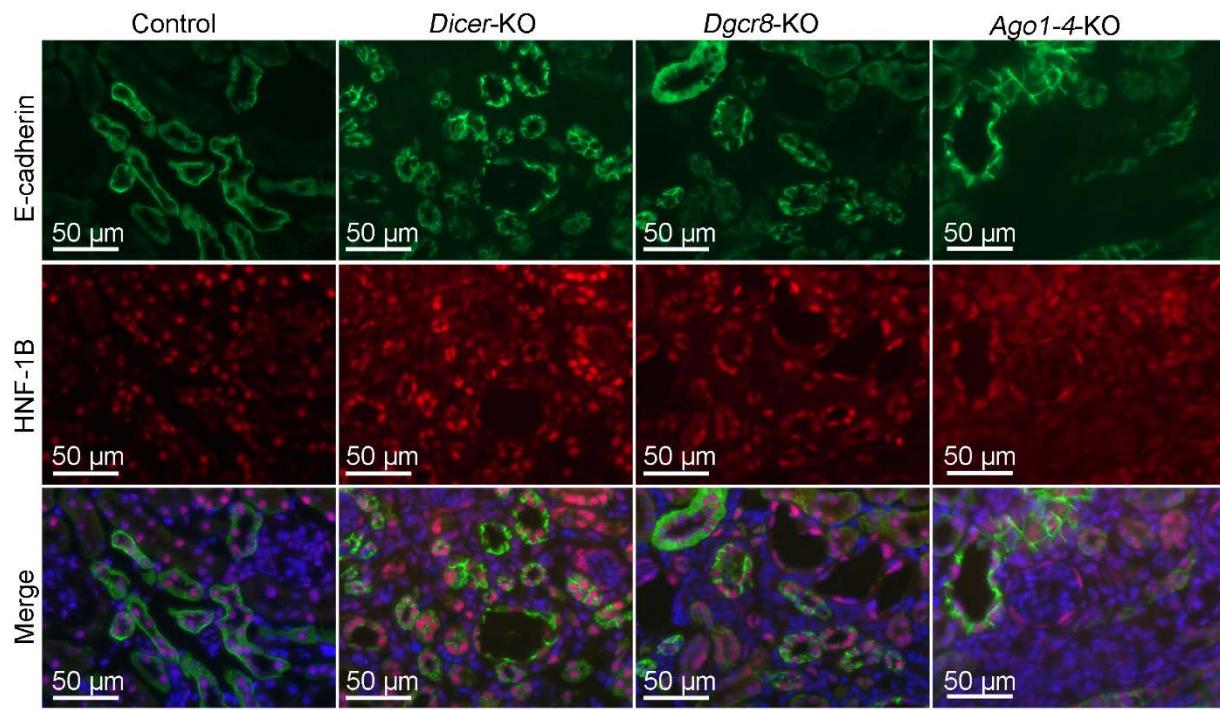
Supplementary Figure 4: Purity of microdissected nephron segments. (A) Representative phase contrast image of segments obtained after collagenase treatment of mouse kidneys. Microdissected segments: glomerulus (Glom); proximal convoluted tubules (PCT); proximal straight tubules (PST); thick ascending limbs (TAL); Distal convoluted tubule (DCT) and collecting ducts (CD). (B) Segment-specific marker genes (Glom: podocin; PT: *SGLT2* and *SNAT3*; TAL: *NKCC2* and *UMOD*; DCT: *NCC*; CD: *AQP2*) were used to demonstrate the purity for each fraction of collected tubule segments using SYBR green quantitative PCR. Quantification of all segment-specific marker genes was done in comparison with *GAPDH* as an endogenous control. Expression of segment-specific markers in the various renal fragments is shown.



Supplementary Figure 5: Expression of mesenchymal markers SNAI2 and Vimentin in miRNA-depleted CDs. Immunohistochemistry staining of mesenchymal markers (A) SNAI2 and (B) Vimentin showed tubular co-localization with collecting duct-specific marker DBA of *Dicer*-KO, *Dgcr8*-KO, and *Ago1-4*-KO mice.



Supplementary Figure 6: Immunohistochemistry staining of mesenchymal marker SNAI2 showed no tubular co-localization with proximal tubule-specific marker LTA in kidneys of *Dicer*-KO, *Dgcr8*-KO, and *Ago1-4*-KO mice.



Supplementary Figure 7: Expression of epithelial markers E-cadherin and HNF-1 β is unchanged in miRNA-mutant CDs. Immunohistochemistry staining of epithelial markers E-cadherin and HNF-1 β showed normal expression in kidneys of *Dicer*-KO, *Dgcr8*-KO, and *Ago1-4*-KO mice compared to control mice at 5 weeks of age.

Supplementary Table 1: Segmental miRNA Expression Profile of Glomerulus, Nephron, and Collecting Duct

miRNA	Log2(Count)					
	mean GL	mean PCT	mean PST	mean TAL	mean DCT	mean CD
mmu-miR-200c-3p	3.62	2.63	2.28	7.79	7.58	8.74
mmu-miR-218-5p	4.99	2.81	2.47	7.46	7.19	7.02
mmu-miR-96-5p	2.10	2.20	2.90	2.23	2.55	6.28
mmu-miR-27a-3p	9.22	4.59	4.23	6.76	7.41	7.09
mmu-let-7i-5p	10.31	8.68	8.47	9.62	10.00	11.09
mmu-miR-23a-3p	10.79	6.46	6.13	8.51	8.83	8.67
mmu-miR-10a-5p	9.69	8.22	8.26	10.42	10.60	10.27
mmu-miR-23b-3p	11.54	7.65	7.36	9.20	9.66	9.37
mmu-miR-24-3p	11.74	8.29	8.14	9.74	10.21	9.95
mmu-miR-27b-3p	9.38	5.92	5.54	7.61	7.95	7.46
mmu-miR-20a-5p	7.07	6.63	7.22	7.59	6.75	7.97
mmu-miR-497-5p	8.69	4.65	4.56	6.16	6.43	5.89
mmu-miR-151-5p	8.31	6.41	6.40	7.85	8.56	7.41
mmu-miR-200a-3p	6.39	8.62	8.59	9.28	9.28	9.61
mmu-miR-195a-5p	9.05	5.07	5.03	6.63	6.68	5.93
mmu-let-7e-5p	9.74	8.69	7.20	9.51	9.45	9.48
mmu-miR-6368	5.38	6.15	6.01	6.32	6.60	6.72
mmu-miR-20b-5p	5.67	5.96	6.63	6.04	5.20	6.52
mmu-miR-200b-3p	6.07	9.20	9.46	9.31	9.48	9.64
mmu-miR-92a-3p	7.36	6.64	7.30	8.01	6.42	7.00
mmu-miR-429-3p	5.85	8.90	9.08	8.85	9.25	9.23
mmu-miR-125a-5p	7.39	6.37	4.82	6.85	6.75	6.53
mmu-miR-221-3p	4.57	7.16	6.83	6.72	6.94	7.30
mmu-miR-30e-5p	7.24	8.62	8.60	9.17	8.94	8.74
mmu-miR-451a	10.08	6.45	7.82	7.13	5.92	6.51
mmu-miR-5119	5.07	6.17	5.89	5.47	5.97	6.16
mmu-miR-26a-5p	10.81	9.42	9.60	9.38	9.04	9.39
mmu-miR-378d	5.83	7.15	7.34	8.70	7.73	7.08
mmu-miR-378a-3p	4.24	5.98	6.42	7.55	6.55	5.67
mmu-miR-378b	5.31	6.63	6.91	8.18	7.25	6.31
mmu-miR-126-3p	12.42	8.90	8.86	9.32	9.49	8.57
mmu-miR-5100	10.43	11.47	11.19	11.33	11.28	11.12
mmu-miR-5109	9.08	10.40	10.44	10.04	9.84	10.04
mmu-miR-130a-3p	9.94	8.88	8.66	8.53	8.48	8.42
mmu-miR-26b-5p	9.48	8.91	8.59	8.14	8.32	8.45
mmu-let-7a-5p	12.49	12.05	12.05	11.81	11.62	11.58
mmu-miR-98-5p	6.53	6.88	6.70	5.92	6.48	6.40
mmu-miR-22-3p	9.78	11.06	11.54	10.42	10.91	10.39
mmu-miR-21a-5p	8.15	10.38	10.62	7.78	8.92	9.70
mmu-miR-466i-5p	5.67	7.65	7.85	7.05	6.74	6.95
mmu-miR-196a-5p	7.92	7.91	7.64	8.25	7.84	7.18
mmu-miR-103-3p	7.89	8.24	8.59	7.18	7.69	7.49
mmu-miR-5126	8.22	9.78	9.64	9.67	9.39	9.02
mmu-miR-107-3p	8.21	9.23	10.17	8.72	8.64	8.44
mmu-miR-15a-5p	9.43	9.39	9.22	8.09	8.00	8.44
mmu-miR-3960	6.74	8.42	8.09	8.00	7.65	7.40
mmu-miR-16-5p	9.14	9.01	8.88	7.53	7.22	7.55
mmu-miR-34a-5p	6.94	7.87	8.90	6.68	7.96	6.33
mmu-miR-29c-3p	9.89	10.17	10.21	7.91	8.62	8.46

Supplementary Table 2: Microarray of Microdissected Collecting Ducts

miRNA	p-value	CTL Mean	St Dev	MUTANT Mean	St. Dev	Log2 (G2/G1)
mmu-miR-200c-3p	5.48E-03	549	28	119	24	-2.21
mmu-miR-3097-5p	7.21E-03	457	72	145	10	-1.65
mmu-miR-468-3p	3.90E-03	477	71	170	28	-1.49
mmu-let-7i-5p	3.83E-05	1,515	30	709	20	-1.10
mmu-miR-200a-3p	3.26E-04	1,020	8	508	10	-1.00
mmu-miR-451a	9.65E-03	2,938	120	1,590	150	-0.89
mmu-miR-10b-5p	2.49E-04	1,581	48	870	35	-0.86
mmu-miR-32-3p	5.13E-03	762	45	452	11	-0.75
mmu-miR-709	1.18E-03	23,454	1,099	14,548	697	-0.69
mmu-let-7j	8.21E-03	612	19	387	26	-0.66
mmu-miR-6348	1.50E-03	1,044	42	665	37	-0.65
mmu-miR-669c-5p	9.79E-03	1,198	84	773	18	-0.63
mmu-miR-429-3p	2.97E-03	526	30	350	20	-0.59
mmu-miR-30d-5p	6.40E-03	879	73	590	34	-0.58
mmu-let-7b-5p	1.04E-03	1,810	58	1,239	50	-0.55
mmu-miR-30b-5p	9.86E-03	2,197	137	1,528	6	-0.52
mmu-miR-130a-3p	6.39E-03	680	36	498	30	-0.45
mmu-miR-3082-5p	7.73E-03	1,636	72	1,204	85	-0.44
mmu-miR-574-5p	1.85E-03	2,252	67	1,809	37	-0.32
mmu-miR-3070b-3p	4.94E-03	414	21	533	16	0.37
mmu-miR-3963	7.23E-03	3,707	176	5,052	329	0.45
mmu-miR-133b-5p	6.66E-04	22,552	871	33,009	720	0.55
mmu-miR-145a-5p	5.61E-03	517	26	761	4	0.56
mmu-miR-5126	6.38E-03	1,221	93	1,834	126	0.59
mmu-miR-3068-3p	5.01E-03	336	18	533	9	0.66
mmu-miR-669c-3p	9.83E-03	1,025	174	2,063	212	1.01
mmu-miR-126-3p	4.01E-04	772	37	1,735	113	1.17
mmu-miR-706	2.49E-03	337	24	808	16	1.26
mmu-miR-669p-3p	5.83E-03	1,120	198	2,782	336	1.31
mmu-miR-669a-3p	1.87E-03	703	18	1,783	114	1.34
mmu-miR-574-3p	2.08E-03	515	37	1,309	29	1.34
mmu-miR-466h-3p	4.05E-04	1,361	104	3,473	180	1.35
mmu-miR-669f-3p	8.34E-03	605	123	1,592	243	1.40
mmu-miR-6240	6.96E-04	229	24	642	40	1.49
mmu-miR-466g	4.75E-04	537	49	1,547	99	1.53
mmu-miR-466i-3p	2.65E-04	875	5	2,550	75	1.54
mmu-miR-1903	4.15E-04	213	18	633	44	1.57
mmu-miR-466f-3p	1.69E-03	1,319	43	3,924	273	1.57
mmu-miR-6243	6.33E-04	1,066	22	3,260	143	1.61
mmu-miR-466m-3p	2.12E-03	512	43	1,583	57	1.63
mmu-miR-669e-3p	4.12E-03	465	83	1,444	219	1.63
mmu-miR-6239	2.72E-04	1,127	86	3,564	223	1.66
mmu-miR-5109	2.69E-04	594	53	1,981	103	1.74
mmu-miR-467a-3p	1.36E-03	207	34	821	93	1.99
mmu-miR-669a-3-3p	1.98E-04	130	11	569	44	2.13
mmu-miR-6538	4.10E-03	346	18	1,597	258	2.21
mmu-miR-467c-3p	1.27E-03	125	22	594	86	2.25
mmu-miR-6412	1.23E-04	130	9	1,133	139	3.12

Supplementary Table 3: Microdissected CD Full Data

miRNA	p-value	CTL Mean	St. Dev	MUTANT Mean	St. Dev2	Log2 (G2/G1)
mmu-let-7i-5p	3.83E-05	1,515	30	709	20	-1.10
mmu-miR-6412	1.23E-04	130	9	1,133	139	3.12
mmu-miR-669a-3-3p	1.98E-04	130	11	569	44	2.13
mmu-miR-10b-5p	2.49E-04	1,581	48	870	35	-0.86
mmu-miR-466i-3p	2.65E-04	875	5	2,550	75	1.54
mmu-miR-5109	2.69E-04	594	53	1,981	103	1.74
mmu-miR-6239	2.72E-04	1,127	86	3,564	223	1.66
mmu-miR-200a-3p	3.26E-04	1,020	8	508	10	-1.00
mmu-miR-126-3p	4.01E-04	772	37	1,735	113	1.17
mmu-miR-466h-3p	4.05E-04	1,361	104	3,473	180	1.35
mmu-miR-1903	4.15E-04	213	18	633	44	1.57
mmu-miR-466g	4.75E-04	537	49	1,547	99	1.53
mmu-miR-6243	6.33E-04	1,066	22	3,260	143	1.61
mmu-miR-133b-5p	6.66E-04	22,552	871	33,009	720	0.55
mmu-miR-6240	6.96E-04	229	24	642	40	1.49
mmu-let-7b-5p	1.04E-03	1,810	58	1,239	50	-0.55
mmu-miR-709	1.18E-03	23,454	1,099	14,548	697	-0.69
mmu-miR-467c-3p	1.27E-03	125	22	594	86	2.25
mmu-miR-467a-3p	1.36E-03	207	34	821	93	1.99
mmu-miR-6348	1.50E-03	1,044	42	665	37	-0.65
mmu-miR-466f-3p	1.69E-03	1,319	43	3,924	273	1.57
mmu-miR-574-5p	1.85E-03	2,252	67	1,809	37	-0.32
mmu-miR-669a-3p	1.87E-03	703	18	1,783	114	1.34
mmu-miR-574-3p	2.08E-03	515	37	1,309	29	1.34
mmu-miR-466m-3p	2.12E-03	512	43	1,583	57	1.63
mmu-miR-706	2.49E-03	337	24	808	16	1.26
mmu-miR-429-3p	2.97E-03	526	30	350	20	-0.59
mmu-miR-468-3p	3.90E-03	477	71	170	28	-1.49
mmu-miR-6538	4.10E-03	346	18	1,597	258	2.21
mmu-miR-669e-3p	4.12E-03	465	83	1,444	219	1.63
mmu-miR-3070b-3p	4.94E-03	414	21	533	16	0.37
mmu-miR-3068-3p	5.01E-03	336	18	533	9	0.66
mmu-miR-32-3p	5.13E-03	762	45	452	11	-0.75
mmu-miR-200c-3p	5.48E-03	549	28	119	24	-2.21
mmu-miR-145a-5p	5.61E-03	517	26	761	4	0.56
mmu-miR-669p-3p	5.83E-03	1,120	198	2,782	336	1.31
mmu-miR-5126	6.38E-03	1,221	93	1,834	126	0.59
mmu-miR-130a-3p	6.39E-03	680	36	498	30	-0.45
mmu-miR-30d-5p	6.40E-03	879	73	590	34	-0.58
mmu-miR-3097-5p	7.21E-03	457	72	145	10	-1.65
mmu-miR-3963	7.23E-03	3,707	176	5,052	329	0.45
mmu-miR-3082-5p	7.73E-03	1,636	72	1,204	85	-0.44
mmu-let-7j	8.21E-03	612	19	387	26	-0.66
mmu-miR-669f-3p	8.34E-03	605	123	1,592	243	1.40
mmu-miR-451a	9.65E-03	2,938	120	1,590	150	-0.89
mmu-miR-669c-5p	9.79E-03	1,198	84	773	18	-0.63

mmu-miR-669c-3p	9.83E-03	1,025	174	2,063	212	1.01
mmu-miR-30b-5p	9.86E-03	2,197	137	1,528	6	-0.52
mmu-miR-5129-5p	1.81E-05	48	3	0	0	-11.04
mmu-miR-196a-5p	2.21E-05	64	2	193	5	1.60
mmu-miR-199a-3p	3.39E-04	167	9	397	25	1.25
mmu-miR-297a-5p	4.61E-04	212	17	59	6	-1.85
mmu-miR-103-3p	4.72E-04	447	19	236	12	-0.92
mmu-miR-6368	5.68E-04	29	9	0	0	-10.25
mmu-miR-290-5p	9.00E-04	25	9	0	0	-10.00
mmu-miR-5110	1.24E-03	25	10	0	0	-9.99
mmu-miR-682	1.48E-03	25	10	0	0	-9.99
mmu-miR-223-3p	1.49E-03	0	0	72	45	14.23
mmu-let-7e-5p	1.68E-03	439	11	313	15	-0.49
mmu-miR-3084-5p	2.08E-03	0	0	100	69	14.64
mmu-miR-3084-3p	2.93E-03	126	14	272	28	1.11
mmu-miR-3085-3p	3.51E-03	46	8	126	15	1.45
mmu-miR-107-3p	3.72E-03	419	11	204	15	-1.04
mmu-miR-1839-3p	4.64E-03	16	4	74	19	2.23
mmu-miR-3099-3p	5.02E-03	317	26	186	18	-0.77
mmu-miR-804	5.14E-03	63	11	308	21	2.28
mmu-miR-328-5p	5.31E-03	71	13	30	3	-1.25
mmu-miR-194-1-3p	5.41E-03	0	0	107	94	14.72
mmu-miR-6345	5.62E-03	72	7	45	2	-0.67
mmu-miR-653-3p	5.93E-03	0	0	34	38	13.35
mmu-miR-1192	6.06E-03	183	23	338	27	0.88
mmu-miR-6349	6.74E-03	111	13	46	2	-1.26
mmu-miR-320-3p	6.80E-03	242	35	117	13	-1.04
mmu-miR-681	8.42E-03	91	7	33	5	-1.48
mmu-miR-1894-3p	9.55E-03	95	20	42	5	-1.17
mmu-miR-467b-3p	1.01E-02	779	136	2,414	185	1.63
mmu-miR-467d-3p	1.01E-02	543	98	1,732	141	1.67
mmu-miR-466q	1.04E-02	712	100	1,609	29	1.18
mmu-miR-568	1.04E-02	71	17	308	26	2.12
mmu-miR-122-5p	1.06E-02	626	39	90	29	-2.80
mmu-miR-30c-1-3p	1.09E-02	99	22	43	5	-1.21
mmu-miR-30c-5p	1.18E-02	4,444	159	3,654	40	-0.28
mmu-miR-3064-3p	1.22E-02	49	11	116	21	1.24
mmu-miR-192-5p	1.25E-02	215	24	410	22	0.93
mmu-miR-467f	1.26E-02	1,087	168	2,585	140	1.25
mmu-miR-5113	1.33E-02	298	39	159	24	-0.90
mmu-miR-3074-2-3p	1.34E-02	24	6	62	12	1.35
mmu-miR-5117-5p	1.37E-02	165	41	520	12	1.66
mmu-let-7g-5p	1.37E-02	783	31	964	55	0.30
mmu-miR-762	1.43E-02	789	50	1,537	189	0.96
mmu-miR-1966-5p	1.47E-02	253	16	181	4	-0.48
mmu-miR-1187	1.49E-02	1,258	22	975	50	-0.37
mmu-miR-5119	1.52E-02	286	49	127	26	-1.16
mmu-miR-219-2-3p	1.55E-02	3	1	45	26	3.80
mmu-miR-29a-3p	1.57E-02	210	10	129	13	-0.70

mmu-miR-30a-5p	1.67E-02	1,635	91	1,279	87	-0.36
mmu-miR-130b-3p	1.67E-02	18	6	84	31	2.18
mmu-miR-669f-5p	1.72E-02	917	85	578	78	-0.66
mmu-miR-6540-5p	1.72E-02	52	12	142	37	1.45
mmu-miR-3471	1.73E-02	0	0	90	86	14.49
mmu-miR-5624-5p	1.76E-02	34	8	98	30	1.54
mmu-let-7k	1.87E-02	338	26	268	11	-0.33
mmu-miR-3095-3p	1.88E-02	594	98	337	41	-0.82
mmu-miR-125b-5p	1.93E-02	423	19	517	32	0.29
mmu-miR-5105	1.96E-02	196	31	392	25	1.00
mmu-miR-200b-3p	1.99E-02	706	29	605	25	-0.22
mmu-miR-467e-3p	2.08E-02	80	31	481	60	2.59
mmu-miR-3472	2.12E-02	14	9	82	35	2.57
mmu-miR-214-3p	2.15E-02	343	40	481	31	0.49
mmu-miR-26b-5p	2.17E-02	386	13	650	82	0.75
mmu-miR-466b-5p	2.18E-02	214	20	90	17	-1.25
mmu-miR-1224-3p	2.19E-02	18	11	155	21	3.07
mmu-miR-466f	2.36E-02	476	14	248	42	-0.94
mmu-miR-16-5p	2.41E-02	1,498	37	1,175	72	-0.35
mmu-miR-466j	2.44E-02	243	2	134	22	-0.86
mmu-let-7f-5p	2.50E-02	1,760	37	2,175	118	0.31
mmu-miR-503-5p	2.53E-02	76	17	36	7	-1.07
mmu-miR-466f-5p	2.53E-02	542	12	372	38	-0.54
mmu-miR-466m-5p	2.54E-02	919	29	583	71	-0.66
mmu-miR-466d-3p	2.54E-02	20	10	164	23	3.03
mmu-miR-219-5p	2.63E-02	71	22	222	11	1.65
mmu-miR-5106	2.68E-02	89	17	34	13	-1.38
mmu-miR-652-3p	2.70E-02	62	11	120	9	0.95
mmu-miR-669l-5p	2.73E-02	509	98	257	50	-0.99
mmu-miR-485-3p	2.74E-02	887	146	1,578	22	0.83
mmu-miR-672-5p	2.95E-02	127	37	47	5	-1.45
mmu-miR-6539	2.96E-02	6	5	83	18	3.77
mmu-let-7c-5p	2.99E-02	3,112	34	2,631	134	-0.24
mmu-miR-3473e	3.00E-02	35	14	166	29	2.26
mmu-miR-1966-3p	3.12E-02	49	10	86	11	0.81
mmu-miR-344f-3p	3.14E-02	17	5	57	26	1.72
mmu-miR-669o-5p	3.19E-02	482	97	203	64	-1.24
mmu-miR-3098-3p	3.20E-02	148	10	75	15	-0.98
mmu-miR-143-3p	3.22E-02	291	52	514	31	0.82
mmu-miR-466c-5p	3.27E-02	758	39	481	64	-0.66
mmu-miR-3099-5p	3.32E-02	82	13	135	4	0.72
mmu-miR-703	3.32E-02	37	4	88	23	1.25
mmu-miR-17-5p	3.32E-02	191	6	153	10	-0.31
mmu-miR-669n	3.35E-02	1,295	208	850	76	-0.61
mmu-miR-21a-5p	3.43E-02	784	39	660	42	-0.25
mmu-miR-705	3.52E-02	238	14	194	15	-0.29
mmu-miR-3475	3.60E-02	0	0	84	25	8.97
mmu-miR-10a-5p	3.64E-02	930	30	676	70	-0.46
mmu-miR-494-3p	3.75E-02	105	53	401	44	1.93

mmu-miR-652-5p	3.76E-02	162	35	83	18	-0.97
mmu-miR-669b-5p	3.85E-02	308	14	129	43	-1.26
mmu-miR-1928	3.89E-02	23	8	69	28	1.57
mmu-miR-5121	3.93E-02	125	32	274	35	1.13
mmu-miR-615-3p	3.94E-02	95	22	50	2	-0.94
mmu-let-7d-3p	4.05E-02	211	19	83	25	-1.35
mmu-miR-873b	4.07E-02	7	4	46	28	2.67
mmu-miR-20a-5p	4.09E-02	189	12	157	4	-0.27
mmu-miR-30c-2-3p	4.16E-02	112	8	48	16	-1.21
mmu-miR-21a-3p	4.18E-02	33	14	84	21	1.37
mmu-miR-5107-5p	4.20E-02	266	15	177	24	-0.59
mmu-miR-3076-5p	4.24E-02	40	15	86	15	1.09
mmu-miR-1929-3p	4.27E-02	22	9	63	24	1.49
mmu-miR-5100	4.32E-02	2,299	68	2,780	174	0.27
mmu-miR-5099	4.33E-02	633	28	824	71	0.38
mmu-miR-466a-5p	4.40E-02	169	30	82	28	-1.04
mmu-miR-301a-3p	4.50E-02	117	7	66	13	-0.82
mmu-miR-6385	4.59E-02	201	17	123	22	-0.70
mmu-miR-6351	4.69E-02	74	22	35	7	-1.07
mmu-miR-19b-3p	4.74E-02	212	21	278	9	0.39
mmu-miR-5623-5p	4.75E-02	25	14	86	34	1.78
mmu-miR-383-3p	4.75E-02	117	11	70	13	-0.74
mmu-miR-669k-5p	4.81E-02	386	72	113	47	-1.78
mmu-miR-344c-5p	4.84E-02	52	16	103	23	0.97
mmu-miR-541-3p	4.94E-02	36	20	152	38	2.08
mmu-miR-874-3p	5.04E-02	55	6	115	31	1.07
mmu-miR-1195	5.22E-02	376	19	440	30	0.22
mmu-miR-423-5p	5.24E-02	167	8	63	25	-1.41
mmu-miR-5097	5.28E-02	234	14	342	48	0.55
mmu-miR-3473b	5.28E-02	71	31	243	7	1.77
mmu-miR-222-5p	5.29E-02	1	1	126	30	7.88
mmu-miR-223-5p	5.30E-02	0	1	90	89	7.60
mmu-miR-483-5p	5.31E-02	600	123	388	45	-0.63
mmu-miR-1931	5.45E-02	41	17	99	3	1.28
mmu-miR-1941-5p	5.47E-02	14	9	93	25	2.74
mmu-miR-378d	5.52E-02	148	18	114	10	-0.38
mmu-miR-151-5p	5.56E-02	171	8	199	15	0.22
mmu-miR-375-3p	5.65E-02	97	3	34	18	-1.53
mmu-miR-342-3p	5.71E-02	61	8	44	2	-0.47
mmu-miR-6366	5.74E-02	94	9	21	11	-2.18
mmu-miR-758-5p	5.76E-02	77	21	149	17	0.96
mmu-miR-1932	5.77E-02	38	14	106	19	1.47
mmu-miR-322-5p	5.80E-02	60	32	177	21	1.56
mmu-miR-3473a	5.80E-02	35	19	112	51	1.69
mmu-miR-129-5p	5.93E-02	84	18	149	35	0.83
mmu-miR-5112	6.01E-02	225	36	156	6	-0.53
mmu-miR-6417	6.03E-02	35	16	95	7	1.45
mmu-miR-3073b-3p	6.31E-02	10	5	36	17	1.90
mmu-miR-3960	6.41E-02	1,228	30	1,461	108	0.25

mmu-miR-218-5p	6.42E-02	100	32	188	8	0.91
mmu-miR-6416-3p	6.45E-02	37	24	121	18	1.72
mmu-miR-6360	6.66E-02	212	47	131	26	-0.70
mmu-miR-1843b-5p	6.67E-02	57	15	24	9	-1.26
mmu-miR-149-3p	6.69E-02	1,402	70	1,206	96	-0.22
mmu-miR-467g	6.75E-02	132	67	479	48	1.86
mmu-miR-3086-3p	6.95E-02	1	2	113	39	6.78
mmu-miR-3082-3p	6.95E-02	29	10	70	13	1.27
mmu-miR-1897-5p	6.98E-02	79	10	54	11	-0.54
mmu-miR-297b-5p	7.02E-02	116	15	42	18	-1.46
mmu-miR-1929-5p	7.61E-02	26	12	62	21	1.24
mmu-miR-374c-3p	7.62E-02	30	14	1	2	-4.98
mmu-miR-3470b	7.62E-02	27	16	110	31	2.00
mmu-miR-466a-3p	7.92E-02	2	4	183	30	6.36
mmu-miR-1895	7.95E-02	268	31	203	30	-0.41
mmu-miR-3085-5p	8.06E-02	21	13	91	30	2.12
mmu-miR-1912-5p	8.08E-02	16	7	34	5	1.05
mmu-miR-466k	8.15E-02	28	15	71	24	1.33
mmu-miR-674-5p	8.56E-02	85	35	31	17	-1.44
mmu-miR-3107-5p	8.94E-02	128	8	57	30	-1.16
mmu-miR-3078-5p	8.95E-02	24	8	64	36	1.45
mmu-miR-378a-5p	9.02E-02	85	24	43	15	-1.00
mmu-miR-344h-3p	9.02E-02	1	1	30	34	5.89
mmu-miR-6241	9.09E-02	118	20	84	14	-0.48
mmu-miR-341-5p	9.27E-02	56,375	3,722	49,552	3,070	-0.19
mmu-miR-3470a	9.28E-02	28	11	73	31	1.35
mmu-miR-466n-5p	9.34E-02	176	75	86	22	-1.03
mmu-miR-3083-5p	9.35E-02	2	4	89	35	5.41
mmu-miR-1940	9.36E-02	2	4	115	73	5.81
mmu-miR-222-3p	9.52E-02	121	15	151	8	0.32
mmu-miR-598-5p	9.54E-02	88	28	45	19	-0.96
mmu-miR-221-5p	9.59E-02	0	0	18	19	12.46
mmu-miR-6537-5p	9.72E-02	2	3	85	18	5.47
mmu-miR-344g-5p	9.85E-02	83	16	129	32	0.64
mmu-miR-3102-5p	1.01E-01	146	19	110	18	-0.40
mmu-let-7d-5p	1.01E-01	1,646	10	1,731	51	0.07
mmu-miR-3086-5p	1.01E-01	2	2	94	30	5.75
mmu-miR-1936	1.01E-01	7	5	52	38	2.91
mmu-miR-3081-5p	1.03E-01	19	17	76	19	2.01
mmu-miR-1264-3p	1.04E-01	0	0	47	80	14.17
mmu-let-7f-2-3p	1.05E-01	46	22	2	3	-4.67
mmu-miR-3473d	1.07E-01	9	8	71	42	2.94
mmu-miR-26a-5p	1.08E-01	2,496	116	2,795	195	0.16
mmu-miR-3081-3p	1.08E-01	12	14	75	25	2.61
mmu-miR-873a-3p	1.09E-01	4	7	122	83	4.98
mmu-miR-3572-5p	1.09E-01	0	0	44	44	13.58
mmu-miR-871-5p	1.09E-01	6	10	164	57	4.80
mmu-miR-466b-3p	1.09E-01	14	12	97	32	2.82
mmu-miR-6420	1.10E-01	0	0	42	37	13.46

mmu-miR-5615-3p	1.10E-01	3	4	68	39	4.75
mmu-miR-721	1.11E-01	155	31	45	28	-1.77
mmu-miR-130b-5p	1.12E-01	0	0	50	43	13.67
mmu-miR-704	1.14E-01	30	8	3	4	-3.57
mmu-miR-130a-5p	1.14E-01	0	0	66	64	14.09
mmu-miR-5619-5p	1.15E-01	0	0	81	93	14.40
mmu-miR-22-3p	1.15E-01	500	105	352	29	-0.50
mmu-miR-99b-5p	1.15E-01	325	73	214	26	-0.60
mmu-miR-3094-3p	1.16E-01	0	0	64	56	14.00
mmu-miR-296-5p	1.16E-01	93	20	65	11	-0.51
mmu-miR-374c-5p	1.16E-01	30	7	3	5	-3.49
mmu-miR-130c	1.16E-01	0	0	68	59	14.06
mmu-miR-1247-3p	1.16E-01	11	2	31	18	1.49
mmu-miR-1938	1.17E-01	4	7	78	29	4.26
mmu-miR-27b-3p	1.17E-01	628	74	521	47	-0.27
mmu-miR-3087-3p	1.17E-01	0	0	77	68	14.25
mmu-miR-190b-5p	1.19E-01	0	0	12	20	12.71
mmu-miR-191-5p	1.21E-01	396	40	464	19	0.23
mmu-miR-1843b-3p	1.21E-01	3	6	49	6	3.91
mmu-miR-5618-3p	1.21E-01	7	12	127	49	4.19
mmu-miR-106a-5p	1.21E-01	92	19	66	11	-0.49
mmu-miR-3094-5p	1.22E-01	0	0	116	101	14.77
mmu-miR-375-5p	1.23E-01	125	16	51	27	-1.28
mmu-miR-30e-5p	1.23E-01	1,292	80	1,169	31	-0.14
mmu-miR-5620-3p	1.23E-01	0	0	14	25	13.00
mmu-miR-1251-3p	1.25E-01	70	20	118	36	0.76
mmu-miR-3100-5p	1.25E-01	72	15	24	15	-1.60
mmu-miR-3079-3p	1.27E-01	7	9	29	11	1.96
mmu-miR-490-3p	1.27E-01	66	32	25	17	-1.42
mmu-miR-34b-3p	1.28E-01	3	5	53	46	4.19
mmu-miR-465a-5p	1.30E-01	0	0	21	37	13.58
mmu-miR-2136	1.31E-01	0	0	22	38	13.62
mmu-miR-1306-5p	1.31E-01	41	28	154	47	1.90
mmu-miR-5625-5p	1.31E-01	4	7	67	44	3.95
mmu-miR-671-5p	1.32E-01	90	23	40	18	-1.18
mmu-miR-465b-5p	1.33E-01	0	0	24	42	13.77
mmu-miR-5617-5p	1.34E-01	25	31	100	39	2.03
mmu-miR-346-3p	1.36E-01	122	18	169	39	0.46
mmu-miR-1264-5p	1.36E-01	0	0	29	51	14.04
mmu-miR-5616-3p	1.36E-01	3	6	54	34	3.95
mmu-miR-669a-5p	1.37E-01	314	14	114	77	-1.46
mmu-miR-802-5p	1.39E-01	0	0	34	59	14.26
mmu-miR-191-3p	1.40E-01	26	3	40	10	0.63
mmu-miR-5617-3p	1.41E-01	52	32	113	43	1.11
mmu-miR-6340	1.42E-01	53	17	13	14	-1.98
mmu-miR-376a-3p	1.42E-01	77	21	24	18	-1.66
mmu-miR-551b-5p	1.43E-01	2	2	50	7	4.57
mmu-miR-219-1-3p	1.43E-01	46	28	102	15	1.16
mmu-miR-34a-5p	1.44E-01	18	13	39	4	1.14

mmu-miR-466e-5p	1.44E-01	145	16	105	24	-0.46
mmu-let-7b-3p	1.44E-01	72	7	33	25	-1.13
mmu-miR-344e-5p	1.44E-01	0	0	36	43	8.70
mmu-miR-1962	1.45E-01	126	17	65	38	-0.96
mmu-miR-5103	1.45E-01	30	12	5	8	-2.74
mmu-miR-3572-3p	1.46E-01	0	0	52	91	14.87
mmu-miR-1981-5p	1.47E-01	33	9	50	13	0.63
mmu-miR-675-5p	1.48E-01	70	48	27	10	-1.39
mmu-miR-181a-5p	1.49E-01	720	28	819	73	0.19
mmu-miR-3088-5p	1.49E-01	0	0	64	111	15.16
mmu-miR-541-5p	1.50E-01	11	12	50	32	2.23
mmu-miR-1906	1.51E-01	57	17	81	3	0.50
mmu-miR-1905	1.55E-01	22	10	46	12	1.07
mmu-miR-3102-3p.2-3p	1.58E-01	66	8	26	27	-1.34
mmu-miR-6370	1.59E-01	60	11	9	15	-2.76
mmu-miR-344i	1.60E-01	65	23	115	45	0.83
mmu-miR-6406	1.61E-01	30	18	12	6	-1.35
mmu-miR-196b-3p	1.61E-01	74	13	90	8	0.29
mmu-miR-677-3p	1.62E-01	85	29	126	12	0.56
mmu-miR-6419	1.62E-01	5	6	81	27	4.09
mmu-miR-5626-3p	1.64E-01	7	12	79	62	3.50
mmu-miR-34c-3p	1.64E-01	141	60	260	49	0.88
mmu-miR-5624-3p	1.64E-01	0	0	71	86	10.99
mmu-miR-6359	1.65E-01	64	20	13	12	-2.34
mmu-miR-501-3p	1.65E-01	25	11	5	9	-2.22
mmu-miR-654-5p	1.65E-01	33	20	65	23	0.97
mmu-miR-409-3p	1.66E-01	116	31	73	25	-0.66
mmu-miR-1930-5p	1.66E-01	6	10	52	9	3.09
mmu-miR-291a-5p	1.66E-01	84	23	34	31	-1.30
mmu-miR-363-5p	1.68E-01	1,175	85	1,016	123	-0.21
mmu-miR-132-3p	1.69E-01	5	6	86	56	4.25
mmu-miR-335-5p	1.71E-01	2	4	23	25	3.26
mmu-miR-466p-5p	1.72E-01	199	10	97	52	-1.03
mmu-miR-382-3p	1.72E-01	51	21	17	12	-1.55
mmu-miR-7b-3p	1.73E-01	48	39	100	18	1.07
mmu-miR-1952	1.74E-01	106	35	41	29	-1.36
mmu-miR-28a-5p	1.75E-01	63	42	17	11	-1.91
mmu-miR-714	1.76E-01	53	21	80	6	0.61
mmu-miR-6236	1.77E-01	200	35	159	13	-0.33
mmu-miR-615-5p	1.79E-01	339	52	283	25	-0.26
mmu-miR-3093-5p	1.79E-01	41	10	118	69	1.52
mmu-miR-3105-5p	1.80E-01	85	13	43	25	-0.97
mmu-miR-1941-3p	1.81E-01	4	4	58	19	3.89
mmu-miR-103-2-5p	1.82E-01	24	12	48	11	0.98
mmu-miR-1196-5p	1.85E-01	92	19	133	37	0.53
mmu-miR-3083-3p	1.86E-01	0	0	34	32	7.01
mmu-miR-770-5p	1.87E-01	38	21	74	13	0.98
mmu-miR-350-5p	1.87E-01	41	31	83	23	1.01
mmu-miR-351-3p	1.88E-01	66	30	105	17	0.68

mmu-miR-3104-3p	1.90E-01	118	15	72	37	-0.71
mmu-miR-21c	1.90E-01	0	0	28	32	6.62
mmu-miR-101a-3p	1.91E-01	39	19	76	22	0.95
mmu-miR-297c-5p	1.92E-01	85	5	32	31	-1.43
mmu-miR-98-3p	1.97E-01	95	28	9	12	-3.36
mmu-miR-653-5p	1.97E-01	6	10	44	10	2.84
mmu-miR-378c	1.98E-01	200	24	171	19	-0.23
mmu-miR-125a-5p	1.99E-01	243	3	217	22	-0.16
mmu-miR-351-5p	1.99E-01	50	37	96	21	0.93
mmu-miR-128-2-5p	2.00E-01	5	4	71	50	3.98
mmu-miR-3961	2.04E-01	105	15	64	29	-0.71
mmu-miR-106b-5p	2.04E-01	114	15	73	27	-0.63
mmu-miR-148a-3p	2.05E-01	117	14	88	24	-0.42
mmu-miR-668-5p	2.06E-01	45	31	86	31	0.92
mmu-miR-195a-5p	2.09E-01	268	54	328	20	0.29
mmu-miR-290-3p	2.09E-01	66	30	32	24	-1.03
mmu-miR-6394	2.10E-01	45	7	19	22	-1.24
mmu-miR-1933-3p	2.10E-01	6	9	59	35	3.21
mmu-miR-148b-3p	2.10E-01	108	29	75	17	-0.52
mmu-miR-3074-1-3p	2.11E-01	25	14	57	27	1.20
mmu-miR-379-5p	2.12E-01	63	12	26	18	-1.25
mmu-miR-6352	2.13E-01	90	10	9	8	-3.30
mmu-miR-196a-1-3p	2.13E-01	65	31	103	9	0.67
mmu-miR-675-3p	2.13E-01	83	2	50	25	-0.75
mmu-miR-25-5p	2.13E-01	24	40	109	59	2.20
mmu-miR-1933-5p	2.14E-01	0	0	47	81	10.07
mmu-miR-376c-3p	2.20E-01	20	3	11	20	-0.78
mmu-miR-6541	2.23E-01	15	14	66	7	2.10
mmu-miR-871-3p	2.23E-01	7	6	65	10	3.18
mmu-miR-1298-3p	2.23E-01	16	14	50	33	1.65
mmu-miR-10a-3p	2.24E-01	47	10	6	5	-2.96
mmu-miR-126-5p	2.24E-01	0	0	49	84	9.83
mmu-miR-491-5p	2.24E-01	27	5	17	30	-0.64
mmu-miR-760-5p	2.25E-01	41	3	54	12	0.39
mmu-miR-29b-3p	2.26E-01	22	5	14	24	-0.65
mmu-miR-1955-3p	2.26E-01	119	19	59	44	-1.00
mmu-miR-380-5p	2.27E-01	45	20	13	23	-1.73
mmu-miR-670-5p	2.29E-01	100	27	12	11	-3.11
mmu-miR-3544-3p	2.30E-01	42	34	83	36	0.98
mmu-miR-690	2.30E-01	11,161	247	11,840	640	0.09
mmu-miR-1251-5p	2.32E-01	30	19	59	26	0.96
mmu-miR-5619-3p	2.32E-01	1	2	85	90	6.51
mmu-miR-6343	2.33E-01	39	22	5	5	-2.89
mmu-miR-673-5p	2.34E-01	24	10	17	29	-0.55
mmu-miR-23a-3p	2.34E-01	1,254	136	1,392	82	0.15
mmu-miR-127-5p	2.35E-01	21	9	72	47	1.75
mmu-miR-700-3p	2.35E-01	74	19	102	28	0.46
mmu-miR-6244	2.35E-01	30	8	22	39	-0.40
mmu-miR-5108	2.37E-01	65	14	9	9	-2.82

mmu-miR-341-3p	2.38E-01	236	17	289	53	0.29
mmu-miR-466l-3p	2.38E-01	1	2	98	85	6.53
mmu-miR-381-3p	2.39E-01	59	21	8	7	-2.86
mmu-miR-873a-5p	2.42E-01	12	15	86	42	2.81
mmu-miR-379-3p	2.44E-01	35	5	9	14	-1.92
mmu-miR-1935	2.44E-01	42	14	75	33	0.84
mmu-miR-6354	2.46E-01	47	2	13	20	-1.87
mmu-miR-344b-5p	2.46E-01	1	2	41	40	5.33
mmu-miR-214-5p	2.46E-01	16	9	43	30	1.41
mmu-miR-6337	2.47E-01	71	13	40	23	-0.82
mmu-miR-3102-3p	2.47E-01	51	9	8	7	-2.65
mmu-miR-496a-5p	2.48E-01	20	2	18	31	-0.15
mmu-miR-2861	2.49E-01	260	84	179	12	-0.53
mmu-miR-3105-3p	2.50E-01	36	3	7	8	-2.32
mmu-miR-2137	2.52E-01	252	15	267	6	0.08
mmu-miR-547-5p	2.52E-01	29	31	63	14	1.12
mmu-miR-1912-3p	2.53E-01	6	6	47	33	2.87
mmu-miR-880-5p	2.55E-01	0	0	22	38	7.69
mmu-miR-217-5p	2.55E-01	24	17	56	26	1.25
mmu-miR-1930-3p	2.55E-01	14	12	93	12	2.74
mmu-miR-31-5p	2.56E-01	51	7	10	11	-2.37
mmu-miR-3474	2.60E-01	15	14	102	29	2.73
mmu-miR-129-1-3p	2.61E-01	1	2	39	55	5.00
mmu-miR-3113-5p	2.61E-01	69	2	31	42	-1.18
mmu-miR-210-3p	2.61E-01	72	19	12	11	-2.57
mmu-miR-15a-5p	2.61E-01	127	15	142	7	0.16
mmu-miR-185-5p	2.62E-01	11	1	11	19	-0.04
mmu-miR-129-2-3p	2.62E-01	1	3	49	45	5.04
mmu-miR-376b-3p	2.62E-01	75	14	92	16	0.29
mmu-miR-1934-3p	2.63E-01	14	17	82	45	2.56
mmu-miR-504-3p	2.63E-01	62	12	44	18	-0.51
mmu-let-7a-2-3p	2.64E-01	26	7	29	51	0.19
mmu-miR-127-3p	2.66E-01	52	9	79	29	0.60
mmu-miR-874-5p	2.67E-01	52	11	104	55	1.00
mmu-miR-3059-3p	2.67E-01	52	5	35	16	-0.59
mmu-miR-34a-3p	2.68E-01	2	3	48	66	4.96
mmu-miR-3473c	2.68E-01	2	3	90	134	5.63
mmu-miR-190b-3p	2.69E-01	0	0	19	33	7.14
mmu-miR-1961	2.69E-01	32	7	43	74	0.40
mmu-miR-692	2.70E-01	52	9	11	11	-2.26
mmu-miR-678	2.70E-01	54	18	21	20	-1.40
mmu-miR-3108-3p	2.70E-01	14	4	16	28	0.15
mmu-miR-1934-5p	2.70E-01	2	3	58	71	4.99
mmu-miR-5710	2.71E-01	25	19	59	25	1.23
mmu-miR-3087-5p	2.71E-01	19	17	112	37	2.58
mmu-miR-497-3p	2.71E-01	58	23	27	26	-1.13
mmu-miR-383-5p	2.71E-01	24	17	4	4	-2.53
mmu-miR-24-2-5p	2.73E-01	36	49	82	54	1.19
mmu-miR-1231-5p	2.74E-01	106	7	92	14	-0.21

mmu-miR-6347	2.74E-01	90	10	62	29	-0.55
mmu-miR-1960	2.74E-01	53	7	27	45	-0.97
mmu-miR-1224-5p	2.75E-01	74	11	47	27	-0.66
mmu-miR-1965	2.76E-01	94	5	81	14	-0.22
mmu-miR-5615-5p	2.77E-01	2	4	82	71	5.13
mmu-miR-1927	2.77E-01	7	4	25	21	1.73
mmu-miR-6346	2.78E-01	59	35	29	11	-1.05
mmu-miR-1951	2.78E-01	92	17	30	46	-1.63
mmu-miR-466i-5p	2.79E-01	4,629	92	4,287	386	-0.11
mmu-miR-182-5p	2.79E-01	38	13	51	0	0.43
mmu-miR-3067-5p	2.79E-01	10	2	12	21	0.24
mmu-miR-669h-3p	2.80E-01	58	32	111	59	0.94
mmu-miR-666-5p	2.80E-01	58	13	75	20	0.38
mmu-miR-1963	2.81E-01	27	14	36	62	0.41
mmu-miR-467b-5p	2.82E-01	3	6	135	144	5.40
mmu-miR-3104-5p	2.82E-01	109	3	84	31	-0.36
mmu-miR-96-3p	2.83E-01	26	23	3	4	-2.96
mmu-miR-101a-5p	2.83E-01	16	5	21	37	0.42
mmu-miR-380-3p	2.84E-01	34	12	16	26	-1.10
mmu-miR-488-5p	2.86E-01	15	10	14	24	-0.06
mmu-miR-679-3p	2.86E-01	38	21	10	13	-1.92
mmu-miR-6238	2.87E-01	36	13	22	38	-0.67
mmu-miR-872-3p	2.89E-01	15	14	70	24	2.24
mmu-miR-466h-5p	2.89E-01	55	9	82	35	0.57
mmu-miR-1953	2.89E-01	38	15	65	113	0.80
mmu-miR-215-5p	2.90E-01	106	31	135	12	0.36
mmu-miR-3110-3p	2.90E-01	60	14	42	17	-0.52
mmu-miR-128-1-5p	2.90E-01	16	14	76	28	2.28
mmu-miR-1298-5p	2.91E-01	12	13	62	37	2.38
mmu-let-7c-1-3p	2.92E-01	16	9	21	37	0.42
mmu-miR-106b-3p	2.93E-01	14	8	19	32	0.38
mmu-miR-3109-5p	2.93E-01	14	7	19	32	0.43
mmu-miR-28a-3p	2.94E-01	39	34	4	4	-3.22
mmu-miR-193a-5p	2.95E-01	26	21	68	34	1.36
mmu-miR-192-3p	2.97E-01	22	22	46	23	1.07
mmu-miR-669d-2-3p	2.98E-01	3	6	72	87	4.41
mmu-miR-455-3p	2.98E-01	128	29	102	10	-0.32
mmu-miR-493-5p	3.00E-01	12	10	14	24	0.22
mmu-miR-3088-3p	3.00E-01	23	22	100	20	2.09
mmu-miR-5618-5p	3.01E-01	4	6	73	63	4.32
mmu-miR-141-3p	3.02E-01	197	52	44	42	-2.17
mmu-miR-30e-3p	3.02E-01	150	23	125	25	-0.26
mmu-miR-1950	3.02E-01	18	17	0	0	-9.50
mmu-miR-370-5p	3.03E-01	74	16	26	36	-1.54
mmu-miR-872-5p	3.03E-01	33	35	132	24	2.01
mmu-miR-669j	3.04E-01	44	24	12	14	-1.86
mmu-miR-3092-3p	3.05E-01	5	9	151	132	4.84
mmu-miR-362-3p	3.05E-01	16	11	23	39	0.46
mmu-miR-6413	3.05E-01	23	8	34	12	0.55

mmu-miR-546	3.06E-01	28	30	72	33	1.38
mmu-miR-1956	3.06E-01	139	32	75	52	-0.89
mmu-miR-6418-3p	3.07E-01	3	4	23	24	3.22
mmu-miR-6408	3.07E-01	11	2	18	32	0.75
mmu-miR-676-3p	3.07E-01	54	33	22	21	-1.32
mmu-miR-299a-5p	3.08E-01	46	6	41	2	-0.15
mmu-miR-3080-5p	3.08E-01	7	7	41	31	2.54
mmu-miR-1964-5p	3.09E-01	92	18	114	27	0.31
mmu-miR-764-3p	3.11E-01	4	7	62	56	3.90
mmu-miR-92b-3p	3.11E-01	43	30	79	27	0.88
mmu-miR-193a-3p	3.13E-01	5	9	98	86	4.22
mmu-miR-667-5p	3.15E-01	46	35	91	30	0.98
mmu-miR-3103-3p	3.16E-01	13	2	27	46	1.00
mmu-miR-485-5p	3.16E-01	28	22	31	53	0.11
mmu-miR-216b-5p	3.18E-01	4	7	46	42	3.47
mmu-miR-9-5p	3.18E-01	142	39	39	38	-1.88
mmu-miR-3968	3.19E-01	25	8	13	20	-0.95
mmu-miR-3074-5p	3.19E-01	3	5	19	17	2.74
mmu-miR-297a-3p	3.19E-01	18	17	59	6	1.74
mmu-miR-466o-3p	3.20E-01	4	7	36	39	3.24
mmu-miR-133a-3p	3.20E-01	76	20	30	43	-1.33
mmu-miR-142-5p	3.21E-01	30	24	32	55	0.10
mmu-miR-802-3p	3.21E-01	4	6	51	78	3.79
mmu-miR-377-5p	3.22E-01	47	9	14	13	-1.69
mmu-miR-301b-3p	3.22E-01	43	17	13	12	-1.73
mmu-miR-544-5p	3.23E-01	5	8	47	41	3.37
mmu-let-7f-1-3p	3.23E-01	38	7	13	13	-1.59
mmu-miR-744-3p	3.23E-01	10	9	14	24	0.47
mmu-miR-147-3p	3.24E-01	18	9	42	72	1.17
mmu-miR-6237	3.24E-01	73	20	22	21	-1.74
mmu-miR-29c-3p	3.24E-01	53	10	44	8	-0.27
mmu-miR-92b-5p	3.25E-01	40	29	73	21	0.84
mmu-miR-135a-5p	3.25E-01	5	9	53	47	3.41
mmu-miR-181b-5p	3.26E-01	96	10	75	27	-0.35
mmu-miR-547-3p	3.27E-01	4	7	47	66	3.43
mmu-miR-5627-5p	3.29E-01	82	23	111	33	0.45
mmu-miR-467h	3.29E-01	99	55	30	35	-1.72
mmu-miR-484	3.30E-01	36	30	30	52	-0.28
mmu-miR-291a-3p	3.30E-01	72	16	25	27	-1.54
mmu-miR-152-5p	3.31E-01	33	3	14	18	-1.21
mmu-miR-532-5p	3.31E-01	26	9	9	8	-1.55
mmu-miR-323-5p	3.32E-01	16	1	41	71	1.39
mmu-miR-1942	3.33E-01	6	10	54	60	3.23
mmu-miR-3544-5p	3.33E-01	8	14	110	96	3.75
mmu-miR-3093-3p	3.34E-01	14	15	74	56	2.35
mmu-miR-106a-3p	3.36E-01	7	5	11	19	0.64
mmu-miR-1964-3p	3.37E-01	60	10	21	21	-1.49
mmu-miR-133c	3.37E-01	5	9	38	38	2.85
mmu-miR-1954	3.37E-01	91	5	59	46	-0.61

mmu-miR-295-5p	3.38E-01	70	8	38	46	-0.89
mmu-miR-3070a-3p	3.40E-01	72	10	65	5	-0.15
mmu-miR-193b-5p	3.43E-01	19	16	63	34	1.74
mmu-miR-1958	3.43E-01	100	29	60	53	-0.74
mmu-miR-7a-1-3p	3.43E-01	4	7	20	22	2.26
mmu-miR-370-3p	3.45E-01	102	42	36	36	-1.52
mmu-miR-599	3.46E-01	60	4	22	19	-1.45
mmu-miR-598-3p	3.46E-01	66	18	26	29	-1.34
mmu-miR-671-3p	3.46E-01	87	28	31	29	-1.50
mmu-miR-135b-5p	3.47E-01	8	13	55	51	2.87
mmu-miR-654-3p	3.48E-01	20	19	68	41	1.73
mmu-miR-148a-5p	3.49E-01	57	25	27	23	-1.04
mmu-miR-362-5p	3.50E-01	84	28	30	28	-1.47
mmu-miR-767	3.51E-01	31	9	42	16	0.47
mmu-miR-3113-3p	3.53E-01	75	18	49	32	-0.61
mmu-miR-350-3p	3.54E-01	13	15	36	23	1.47
mmu-miR-493-3p	3.56E-01	92	17	37	39	-1.30
mmu-miR-345-5p	3.56E-01	15	13	47	34	1.64
mmu-miR-1190	3.56E-01	23	13	11	9	-1.01
mmu-miR-5623-3p	3.57E-01	14	12	36	15	1.41
mmu-miR-149-5p	3.57E-01	79	28	39	34	-1.01
mmu-miR-381-5p	3.58E-01	106	36	59	44	-0.84
mmu-miR-500-3p	3.58E-01	50	38	24	14	-1.07
mmu-miR-6415	3.59E-01	19	16	50	24	1.41
mmu-miR-6405	3.60E-01	41	15	16	14	-1.34
mmu-miR-431-5p	3.62E-01	35	11	23	34	-0.65
mmu-miR-3106-5p	3.63E-01	37	11	16	15	-1.21
mmu-miR-669d-5p	3.65E-01	102	31	43	43	-1.24
mmu-miR-15a-3p	3.65E-01	34	13	55	27	0.71
mmu-miR-324-3p	3.67E-01	32	18	13	14	-1.31
mmu-miR-30d-3p	3.67E-01	52	18	23	22	-1.18
mmu-miR-1249-5p	3.67E-01	17	15	44	22	1.36
mmu-miR-760-3p	3.68E-01	32	17	13	12	-1.33
mmu-miR-5120	3.68E-01	8	8	14	24	0.72
mmu-miR-1968-3p	3.68E-01	61	3	41	35	-0.58
mmu-miR-150-5p	3.69E-01	63	24	35	33	-0.85
mmu-miR-28c	3.69E-01	94	11	55	48	-0.78
mmu-miR-471-3p	3.70E-01	1	1	19	33	4.88
mmu-miR-133b-3p	3.71E-01	61	44	25	28	-1.29
mmu-miR-153-3p	3.71E-01	34	20	14	16	-1.28
mmu-miR-93-3p	3.72E-01	27	23	62	37	1.21
mmu-miR-5621-5p	3.73E-01	69	33	92	8	0.41
mmu-miR-344d-3p	3.73E-01	1	1	23	40	5.05
mmu-miR-27a-5p	3.73E-01	70	35	29	27	-1.28
mmu-miR-1970	3.74E-01	44	14	20	18	-1.14
mmu-miR-199a-5p	3.74E-01	96	1	83	22	-0.21
mmu-miR-673-3p	3.75E-01	57	22	25	22	-1.21
mmu-miR-1955-5p	3.75E-01	120	24	56	58	-1.09
mmu-miR-674-3p	3.76E-01	51	28	21	20	-1.28

mmu-let-7e-3p	3.76E-01	61	5	28	25	-1.10
mmu-miR-876-3p	3.78E-01	1	1	20	35	4.77
mmu-miR-344g-3p	3.79E-01	41	21	66	38	0.68
mmu-miR-466n-3p	3.79E-01	1	1	45	77	5.72
mmu-miR-3073a-5p	3.79E-01	7	6	23	26	1.77
mmu-miR-3102-5p.2-5p	3.80E-01	188	54	148	36	-0.35
mmu-miR-5709	3.83E-01	12	10	27	18	1.22
mmu-miR-141-5p	3.85E-01	15	25	59	70	2.01
mmu-miR-5130	3.85E-01	37	11	22	24	-0.77
mmu-miR-669b-3p	3.85E-01	1	2	123	212	6.83
mmu-miR-668-3p	3.86E-01	70	44	97	16	0.48
mmu-miR-5122	3.86E-01	44	4	23	20	-0.97
mmu-miR-184-5p	3.88E-01	1	2	64	110	5.95
mmu-miR-92a-1-5p	3.88E-01	16	17	41	32	1.37
mmu-miR-210-5p	3.89E-01	36	26	63	34	0.79
mmu-miR-17-3p	3.91E-01	38	16	20	21	-0.93
mmu-let-7a-1-3p	3.93E-01	73	10	39	36	-0.90
mmu-miR-99a-3p	3.93E-01	33	16	20	26	-0.73
mmu-miR-135a-1-3p	3.93E-01	40	41	79	37	0.97
mmu-miR-218-2-3p	3.95E-01	35	30	67	16	0.93
mmu-miR-880-3p	3.95E-01	1	2	40	69	5.25
mmu-miR-5115	3.95E-01	202	18	218	22	0.11
mmu-miR-296-3p	3.96E-01	94	11	71	43	-0.41
mmu-miR-203-3p	3.98E-01	22	17	32	5	0.55
mmu-miR-669e-5p	3.99E-01	96	39	51	49	-0.92
mmu-miR-882	4.00E-01	49	11	39	56	-0.32
mmu-miR-150-3p	4.01E-01	73	21	43	46	-0.76
mmu-miR-298-5p	4.03E-01	77	8	59	29	-0.38
mmu-miR-434-3p	4.03E-01	35	5	20	18	-0.79
mmu-miR-101c	4.04E-01	16	10	14	21	-0.20
mmu-miR-30b-3p	4.05E-01	80	52	40	36	-1.02
mmu-miR-718	4.06E-01	27	15	14	12	-0.99
mmu-miR-592-3p	4.06E-01	38	35	67	20	0.80
mmu-miR-135a-2-3p	4.06E-01	51	45	88	51	0.78
mmu-miR-3098-5p	4.06E-01	27	18	22	33	-0.30
mmu-miR-669k-3p	4.07E-01	66	46	31	30	-1.09
mmu-miR-138-2-3p	4.07E-01	40	6	25	24	-0.71
mmu-miR-3112-5p	4.08E-01	6	6	13	22	1.11
mmu-let-7i-3p	4.10E-01	57	28	30	26	-0.92
mmu-miR-1945	4.10E-01	92	20	55	48	-0.76
mmu-miR-146a-5p	4.11E-01	90	51	126	30	0.49
mmu-miR-18a-5p	4.13E-01	6	4	22	37	1.77
mmu-miR-3100-3p	4.14E-01	118	45	85	17	-0.48
mmu-miR-5620-5p	4.15E-01	43	37	69	25	0.67
mmu-miR-23a-5p	4.16E-01	30	28	47	14	0.67
mmu-miR-27b-5p	4.18E-01	55	45	21	18	-1.39
mmu-miR-551b-3p	4.18E-01	36	18	23	24	-0.65
mmu-miR-298-3p	4.18E-01	29	9	18	16	-0.67
mmu-miR-3077-5p	4.21E-01	94	14	82	16	-0.20

mmu-miR-3110-5p	4.21E-01	33	7	21	19	-0.63
mmu-miR-139-5p	4.24E-01	106	46	68	50	-0.65
mmu-miR-1188-5p	4.25E-01	193	41	217	1	0.16
mmu-miR-763	4.27E-01	2	3	32	56	4.32
mmu-miR-211-3p	4.28E-01	8	6	28	49	1.91
mmu-miR-1943-5p	4.28E-01	78	7	55	50	-0.51
mmu-miR-96-5p	4.29E-01	39	17	27	28	-0.54
mmu-miR-1948-5p	4.32E-01	43	29	24	23	-0.82
mmu-miR-16-1-3p	4.33E-01	55	25	73	23	0.40
mmu-miR-5621-3p	4.34E-01	27	24	42	22	0.63
mmu-miR-22-5p	4.35E-01	62	79	70	22	0.18
mmu-miR-205-5p	4.36E-01	63	7	45	38	-0.48
mmu-miR-125a-3p	4.39E-01	13	1	13	19	0.07
mmu-miR-470-3p	4.40E-01	2	4	50	86	4.53
mmu-miR-138-5p	4.43E-01	54	26	38	34	-0.49
mmu-miR-299b-5p	4.44E-01	34	2	26	23	-0.37
mmu-miR-19b-1-5p	4.47E-01	22	11	18	22	-0.26
mmu-miR-451b	4.48E-01	10	1	14	22	0.55
mmu-miR-132-5p	4.48E-01	3	5	111	192	5.21
mmu-miR-452-5p	4.50E-01	6	4	27	46	2.21
mmu-miR-667-3p	4.50E-01	23	10	42	26	0.89
mmu-miR-98-5p	4.50E-01	46	23	37	40	-0.32
mmu-miR-1967	4.51E-01	66	11	49	36	-0.44
mmu-miR-3095-5p	4.51E-01	2	4	20	35	3.30
mmu-miR-3096b-3p	4.54E-01	42	36	55	23	0.39
mmu-miR-6418-5p	4.54E-01	161	8	174	23	0.11
mmu-miR-143-5p	4.56E-01	64	44	42	37	-0.60
mmu-miR-204-3p	4.58E-01	24	9	22	26	-0.13
mmu-miR-1907	4.58E-01	80	10	90	18	0.17
mmu-miR-344d-1-5p	4.64E-01	21	4	37	22	0.81
mmu-miR-543-3p	4.64E-01	36	31	42	12	0.21
mmu-miR-471-5p	4.67E-01	3	6	47	81	3.87
mmu-miR-140-5p	4.70E-01	28	11	29	35	0.03
mmu-miR-466l-5p	4.71E-01	4	6	66	61	4.13
mmu-miR-1943-3p	4.71E-01	80	19	76	66	-0.08
mmu-miR-468-5p	4.73E-01	3	6	34	60	3.42
mmu-miR-2139	4.74E-01	15	13	22	18	0.57
mmu-miR-221-3p	4.75E-01	272	33	255	1	-0.09
mmu-miR-744-5p	4.77E-01	32	16	29	39	-0.13
mmu-miR-93-5p	4.79E-01	123	31	144	30	0.22
mmu-miR-140-3p	4.80E-01	140	30	112	63	-0.32
mmu-miR-365-2-5p	4.80E-01	56	44	41	41	-0.43
mmu-miR-361-3p	4.80E-01	4	6	38	66	3.38
mmu-miR-151-3p	4.80E-01	63	11	49	34	-0.36
mmu-miR-582-3p	4.81E-01	27	24	29	10	0.08
mmu-miR-136-3p	4.83E-01	4	7	59	101	3.76
mmu-miR-665-5p	4.85E-01	56	34	44	43	-0.37
mmu-miR-1957a	4.89E-01	74	14	59	53	-0.31
mmu-miR-879-3p	4.91E-01	30	12	31	33	0.06

mmu-miR-878-3p	4.92E-01	44	15	46	40	0.06
mmu-miR-3080-3p	4.95E-01	48	2	83	48	0.78
mmu-miR-1948-3p	4.95E-01	48	25	48	42	0.00
mmu-miR-291b-5p	4.98E-01	97	78	61	59	-0.66
mmu-miR-669i	5.02E-01	60	50	40	50	-0.57
mmu-miR-7b-5p	5.04E-01	10	14	27	42	1.41
mmu-miR-532-3p	5.06E-01	30	7	24	14	-0.33
mmu-miR-3072-5p	5.06E-01	141	13	150	16	0.09
mmu-miR-195b	5.07E-01	35	28	37	49	0.08
mmu-miR-1946b	5.08E-01	83	30	62	40	-0.41
mmu-miR-7a-2-3p	5.08E-01	21	21	36	35	0.76
mmu-miR-883b-5p	5.09E-01	34	3	41	36	0.26
mmu-miR-25-3p	5.11E-01	402	106	446	34	0.15
mmu-miR-6409	5.13E-01	29	5	24	20	-0.26
mmu-miR-3103-5p	5.18E-01	49	22	43	52	-0.18
mmu-miR-367-5p	5.20E-01	25	31	39	39	0.65
mmu-miR-1971	5.24E-01	42	4	34	20	-0.27
mmu-miR-1947-3p	5.30E-01	99	19	82	45	-0.27
mmu-miR-139-3p	5.31E-01	105	45	84	72	-0.32
mmu-miR-344f-5p	5.33E-01	3	1	29	50	3.22
mmu-miR-453	5.33E-01	15	10	16	16	0.04
mmu-miR-3090-5p	5.33E-01	40	11	56	49	0.47
mmu-miR-224-3p	5.33E-01	87	75	63	23	-0.47
mmu-miR-770-3p	5.34E-01	24	8	33	31	0.43
mmu-miR-470-5p	5.37E-01	54	46	61	60	0.17
mmu-miR-883a-5p	5.37E-01	29	15	43	56	0.58
mmu-miR-1982-5p	5.38E-01	34	24	47	23	0.46
mmu-miR-194-2-3p	5.40E-01	53	41	56	48	0.06
mmu-miR-455-5p	5.49E-01	17	17	16	15	-0.09
mmu-miR-187-3p	5.53E-01	58	5	52	20	-0.16
mmu-miR-3075-3p	5.56E-01	1	1	18	29	4.44
mmu-miR-5134-5p	5.65E-01	23	21	27	14	0.27
mmu-miR-344-5p	5.66E-01	7	2	22	36	1.59
mmu-miR-196b-5p	5.67E-01	39	5	43	10	0.16
mmu-miR-1946a	5.72E-01	108	28	92	42	-0.23
mmu-miR-194-5p	5.75E-01	233	11	220	39	-0.09
mmu-miR-5622-3p	5.79E-01	33	26	32	34	-0.07
mmu-miR-212-3p	5.80E-01	18	11	24	25	0.46
mmu-miR-361-5p	5.82E-01	125	57	96	45	-0.38
mmu-miR-92a-3p	5.82E-01	138	13	159	43	0.21
mmu-miR-15b-5p	5.83E-01	212	36	230	35	0.12
mmu-miR-299a-3p	5.85E-01	79	11	73	18	-0.13
mmu-miR-3079-5p	5.94E-01	3	2	19	33	2.61
mmu-miR-1199-3p	5.96E-01	36	6	41	12	0.21
mmu-miR-881-5p	5.97E-01	1	1	48	83	6.46
mmu-miR-3069-3p	5.98E-01	1	1	23	40	4.81
mmu-miR-1249-3p	6.00E-01	12	4	29	41	1.32
mmu-miR-292-3p	6.02E-01	54	47	32	44	-0.73
mmu-miR-24-3p	6.03E-01	749	89	714	46	-0.07

mmu-miR-23b-3p	6.03E-01	1,709	105	1,754	89	0.04
mmu-miR-3091-5p	6.05E-01	36	18	75	65	1.03
mmu-miR-339-3p	6.06E-01	29	27	28	15	-0.07
mmu-miR-3107-3p	6.07E-01	107	34	91	36	-0.23
mmu-miR-339-5p	6.12E-01	7	6	12	20	0.81
mmu-miR-137-3p	6.13E-01	8	8	46	80	2.58
mmu-miR-411-3p	6.18E-01	62	28	70	18	0.18
mmu-miR-465c-5p	6.23E-01	4	5	32	35	3.16
mmu-miR-467c-5p	6.23E-01	26	5	63	55	1.25
mmu-miR-758-3p	6.27E-01	20	15	23	34	0.18
mmu-miR-6407	6.29E-01	31	27	33	14	0.07
mmu-miR-135b-3p	6.37E-01	31	29	55	49	0.83
mmu-miR-1900	6.38E-01	2	3	16	28	2.69
mmu-miR-5136	6.39E-01	6	6	34	59	2.61
mmu-miR-875-3p	6.50E-01	4	4	39	34	3.27
mmu-let-7g-3p	6.54E-01	92	31	81	36	-0.19
mmu-miR-665-3p	6.54E-01	83	62	88	20	0.08
mmu-miR-1892	6.55E-01	104	12	97	28	-0.10
mmu-miR-27a-3p	6.55E-01	242	21	234	17	-0.05
mmu-miR-3089-3p	6.60E-01	5	7	50	49	3.19
mmu-miR-300-3p	6.66E-01	26	11	24	21	-0.12
mmu-miR-138-1-3p	6.69E-01	46	18	40	28	-0.17
mmu-miR-1947-5p	6.71E-01	97	32	89	57	-0.13
mmu-miR-125b-2-3p	6.85E-01	12	3	33	28	1.48
mmu-miR-540-3p	6.86E-01	7	11	15	19	1.17
mmu-miR-3090-3p	6.98E-01	25	20	67	58	1.43
mmu-miR-5627-3p	7.06E-01	70	37	81	33	0.21
mmu-miR-5622-5p	7.08E-01	2	2	18	29	3.28
mmu-miR-3091-3p	7.10E-01	6	6	51	46	3.02
mmu-miR-125b-1-3p	7.15E-01	11	4	37	34	1.72
mmu-miR-3106-3p	7.21E-01	20	23	14	25	-0.49
mmu-miR-5046	7.25E-01	67	47	49	9	-0.46
mmu-miR-34c-5p	7.28E-01	42	40	36	30	-0.21
mmu-miR-1968-5p	7.31E-01	34	9	36	5	0.07
mmu-miR-199b-5p	7.36E-01	45	9	43	23	-0.07
mmu-miR-497-5p	7.38E-01	77	22	70	8	-0.13
mmu-miR-34b-5p	7.42E-01	17	19	9	10	-0.92
mmu-miR-134-3p	7.43E-01	58	40	68	42	0.22
mmu-miR-193b-3p	7.44E-01	28	9	79	68	1.48
mmu-miR-378b	7.48E-01	181	48	188	10	0.05
mmu-miR-124-3p	7.54E-01	29	9	26	6	-0.13
mmu-miR-543-5p	7.54E-01	8	11	28	25	1.75
mmu-miR-100-5p	7.64E-01	55	10	60	20	0.13
mmu-miR-23b-5p	7.67E-01	15	23	50	50	1.69
mmu-miR-467a-5p	7.67E-01	17	14	58	51	1.77
mmu-miR-877-5p	7.69E-01	81	43	82	59	0.01
mmu-miR-133a-5p	7.69E-01	13	17	51	58	2.03
mmu-miR-5133	7.73E-01	40	24	46	23	0.21
mmu-miR-346-5p	7.74E-01	71	12	69	31	-0.04

mmu-miR-883a-3p	7.76E-01	11	10	14	24	0.41
mmu-miR-24-1-5p	7.81E-01	34	33	50	55	0.53
mmu-miR-486-3p	7.83E-01	282	105	296	67	0.07
mmu-miR-664-5p	7.84E-01	119	53	102	10	-0.22
mmu-miR-291b-3p	7.85E-01	16	14	32	56	1.06
mmu-miR-6410	7.86E-01	15	2	17	16	0.18
mmu-miR-487b-3p	7.89E-01	29	26	5	6	-2.56
mmu-miR-153-5p	7.90E-01	49	7	48	22	-0.03
mmu-miR-9-3p	7.96E-01	10	10	19	33	0.84
mmu-miR-879-5p	7.96E-01	10	8	35	33	1.78
mmu-miR-3089-5p	7.99E-01	10	4	50	44	2.31
mmu-miR-3097-3p	8.01E-01	27	33	23	32	-0.25
mmu-miR-5131	8.02E-01	33	24	29	7	-0.19
mmu-miR-369-3p	8.03E-01	9	10	13	22	0.50
mmu-miR-499-3p	8.07E-01	75	51	72	23	-0.06
mmu-miR-3092-5p	8.12E-01	17	16	65	57	1.96
mmu-miR-877-3p	8.13E-01	12	17	26	22	1.08
mmu-miR-6416-5p	8.14E-01	1	1	17	30	4.10
mmu-miR-669d-3p	8.16E-01	13	14	39	35	1.63
mmu-miR-5626-5p	8.18E-01	7	6	12	21	0.85
mmu-miR-128-3p	8.19E-01	25	21	55	47	1.16
mmu-miR-669h-5p	8.20E-01	14	15	38	65	1.40
mmu-miR-99a-5p	8.38E-01	203	33	206	15	0.02
mmu-miR-92a-2-5p	8.38E-01	27	17	57	48	1.08
mmu-miR-1199-5p	8.39E-01	37	15	34	10	-0.14
mmu-miR-16-2-3p	8.43E-01	24	12	38	28	0.63
mmu-miR-3075-5p	8.45E-01	46	16	50	24	0.14
mmu-miR-99b-3p	8.48E-01	65	55	50	35	-0.38
mmu-miR-713	8.53E-01	1	1	32	55	4.55
mmu-miR-666-3p	8.60E-01	86	32	95	38	0.13
mmu-miR-467d-5p	8.62E-01	34	34	109	94	1.69
mmu-miR-759	8.62E-01	4	4	13	17	1.61
mmu-miR-483-3p	8.63E-01	29	41	55	68	0.95
mmu-miR-134-5p	8.72E-01	22	21	61	62	1.44
mmu-miR-669g	8.76E-01	20	23	37	32	0.91
mmu-miR-764-5p	8.82E-01	1	1	24	42	4.09
mmu-miR-542-5p	8.84E-01	19	8	31	26	0.69
mmu-miR-378a-3p	8.85E-01	208	38	210	3	0.01
mmu-miR-345-3p	8.85E-01	13	12	38	55	1.51
mmu-miR-3096a-3p	8.89E-01	23	33	29	26	0.33
mmu-miR-540-5p	8.89E-01	15	15	25	22	0.79
mmu-miR-124-5p	8.92E-01	18	1	23	17	0.33
mmu-miR-7a-5p	8.92E-01	22	28	31	27	0.53
mmu-miR-294-5p	8.95E-01	36	31	20	29	-0.87
mmu-miR-224-5p	9.00E-01	19	31	12	11	-0.64
mmu-miR-299b-3p	9.00E-01	46	28	42	19	-0.14
mmu-miR-145a-3p	9.02E-01	8	8	38	66	2.29
mmu-miR-3077-3p	9.04E-01	12	11	21	24	0.80
mmu-miR-196a-2-3p	9.05E-01	36	9	36	9	-0.03

mmu-miR-669m-3p	9.19E-01	24	22	42	37	0.80
mmu-miR-1306-3p	9.20E-01	15	20	38	33	1.36
mmu-miR-293-3p	9.21E-01	28	24	22	35	-0.33
mmu-miR-365-3p	9.32E-01	19	18	26	30	0.51
mmu-miR-664-3p	9.39E-01	16	24	13	20	-0.25
mmu-miR-1957b	9.44E-01	42	45	29	41	-0.56
mmu-miR-365-1-5p	9.50E-01	24	24	12	11	-0.99
mmu-miR-152-3p	9.54E-01	201	60	193	9	-0.06
mmu-let-7a-5p	9.59E-01	2,583	74	2,590	134	0.00
mmu-miR-146b-3p	9.60E-01	32	28	24	30	-0.44
mmu-miR-3096b-5p	9.64E-01	26	23	35	41	0.41
mmu-miR-369-5p	9.67E-01	16	20	15	21	-0.07
mmu-miR-367-3p	9.68E-01	18	20	19	31	0.05
mmu-miR-195a-3p	9.76E-01	116	46	112	41	-0.04
mmu-miR-20b-5p	9.77E-01	20	4	31	24	0.64
mmu-miR-3096a-5p	9.78E-01	48	45	37	35	-0.37
mmu-miR-144-3p	9.81E-01	22	24	15	19	-0.53
mmu-miR-145b	9.81E-01	33	29	28	31	-0.26
mmu-miR-3067-3p	9.83E-01	22	9	24	14	0.12
mmu-miR-185-3p	9.83E-01	4	6	16	27	1.95
mmu-miR-876-5p	9.85E-01	3	4	13	22	2.08
mmu-miR-696	9.85E-01	44	21	41	16	-0.08
mmu-miR-1893	9.86E-01	27	9	30	15	0.14
mmu-miR-467e-5p	9.88E-01	7	10	43	74	2.59
mmu-miR-146b-5p	9.90E-01	27	25	26	35	-0.06
mmu-miR-218-1-3p	9.91E-01	3	2	25	44	3.24
mmu-miR-322-3p	9.92E-01	59	5	65	31	0.12
mmu-miR-30a-3p	9.93E-01	133	78	115	35	-0.21
mmu-miR-101b-3p	9.96E-01	25	25	24	31	-0.05
mmu-miR-1949	9.98E-01	38	41	30	28	-0.33
mmu-miR-466d-5p	9.99E-01	82	21	83	26	0.01

Supplementary Figure 4: miRNA RT-PCR Primers

miRNA	Nephron segment	miScript specific Primers	Efficiency
RNU6-6P	Endogenous	RNA, U6 small nuclear 6, pseudogene	0.96 ± 0.04
SNORD61	Endogenous	SNORD61 small nucleolar RNA, C/D box 61	0.95 ± 0.04
miR-143-3p	Gl	5'UGAGAUGAAGCACUGUAGCUC	0.94 ± 0.04
miR-195a-5p	Gl	5'UAGCAGCACAGAAAUUUGGC	0.96 ± 0.03
miR-107-3p	PCT/PST	5'AGCAGCAUUGUACAGGGCUAUCA	0.97 ± 0.04
miR-34a-5p	PCT/PST	5'UGGCAGUGCUUAGCUGGUUGU	0.98 ± 0.03
miR-193b-3p	TAL	5'AACUGGCCACAAAGUCCCGCU	0.96 ± 0.04
miR-378a-5p	TAL	5'CUCCUGACUCCAGGUCCUGUGU	0.98 ± 0.04
miR-874-3p	DCT	5'CUGCCCUGGCCGAGGGACCGA	0.95 ± 0.04
miR-155-5p	DCT	5'UUAAUGCUALUUGUGAUAGGGGU	0.96 ± 0.03
miR-200c-3p	CD	5'UAAAUCUGCCGGUAAUGAUGGA	0.96 ± 0.04
miR-96-5p	CD	5'UUUGGCACUAGCACAUUUUGCU	0.98 ± 0.03