

Supplementary Material for

**MicroRNA-146a in human and experimental acute ischemic kidney injury:
CXCL8-dependent mechanism of action**

Table of contents

SUPPLEMENTAL Figure 1

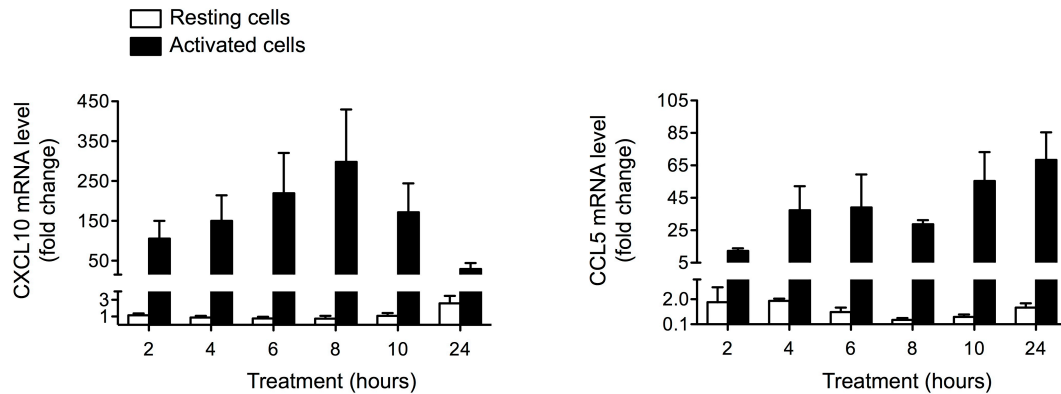
SUPPLEMENTAL Table 1

SUPPLEMENTAL Table 2

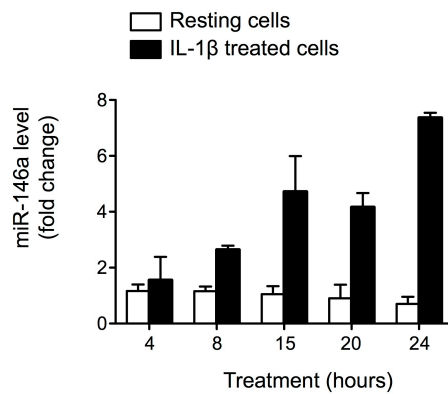
SUPPLEMENTAL Table 3

Supplemental Figure 1. (A) CXCL10 and CCL5 mRNA levels in untreated HK-2 cells (unfilled bars) or cells incubated for 2 to 24 hours with the supernatants of PHA-activated PBMCs (filled bars). (B) Time-dependent induction of miR-146a expression in HK-2 cells incubated with 50 ng/mL IL-1 β for 4 to 24 hours. (C) Concentration-dependent induction of miR-146a expression in HK-2 cells incubated with various concentrations of IL-1 β for 24 hours. (D) miR-146a expression levels 24 hours after transfection of HK-2 cells with pre-miR-146a or anti-miR-146a (50 nM). Data are presented as means $\pm$ SEM of three independent experiments. * p <0.05; *** p <0.001.

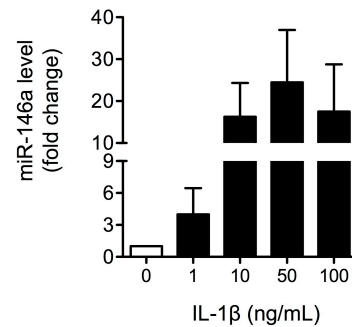
A.



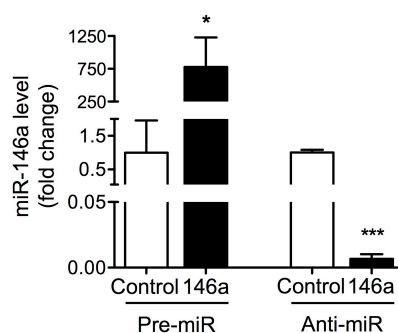
B.



C.



D.



Supplemental Table 1. Raw data from TLDA from HK-2 cells exposed for 24 hours to the supernatants of PHA-activated PBMCs.

Detector	Non treated cells	Non treated cells	Non treated cells	Treated cells	Treated cells	Treated cells
hsa-let-7a-4373169	31.620613	32.797836	30.823952	30.88751	30.360392	30.687721
hsa-let-7c-4373167	33.56385	37.80245	37.261158	34.041405	34.891937	38.843906
hsa-let-7d-4395394	29.288208	31.463438	29.89114	29.08848	29.334488	29.417282
hsa-let-7e-4395517	27.07056	29.238605	26.886324	27.0592	27.125128	27.260452
hsa-let-7f-4373164	32.304485	36.013096	31.607594	32.073696	32.03409	31.796446
hsa-let-7g-4395393	28.31975	30.555223	28.10018	28.141079	28.16746	27.973284
hsa-miR-1-4395333	35.86662	35.62198	33.854355	33.839664	33.5284	33.314667
hsa-miR-9-4373285	30.139036	32.541153	30.14666	30.67555	30.207163	30.212248
hsa-miR-10a-4373153	29.12025	31.7905	28.968422	29.249557	29.558987	29.861217
hsa-miR-10b-4395329	34.194317	40	35.57517	35.653316	36.444878	34.860844
MammU6-4395470	17.80648	19.077501	17.76031	17.575129	18.16911	18.016407
MammU6-4395470	17.694393	19.221909	17.778801	17.733833	17.989706	18.30872
hsa-miR-15a-4373123	31.908566	35.70806	32.876125	31.960442	32.83482	33.6174
hsa-miR-15b-4373122	27.53457	29.20489	27.087317	27.570246	27.304447	27.422693
hsa-miR-16-4373121	23.120176	23.979088	22.86524	23.134829	23.417124	22.95153
hsa-miR-17-4395419	22.055956	23.016354	21.798471	21.926989	22.023848	21.918438
hsa-miR-18a-4395533	28.742306	30.955278	28.336493	28.292244	28.47925	28.809334
hsa-miR-18b-4395328	34.3579	35.908215	33.182858	33.10216	33.541176	32.784367
hsa-miR-19a-4373099	24.834896	27.027405	24.66902	24.377983	24.704496	24.639519
hsa-miR-19b-4373098	22.52314	24.28114	22.214157	22.303392	22.287382	22.438559
hsa-miR-20a-4373286	24.414375	25.560942	23.84189	23.906935	23.894495	23.924091
hsa-miR-20b-4373263	27.401157	28.588768	27.154652	27.117115	27.20643	27.110909
hsa-miR-21-4373090	25.178802	27.419428	24.602	24.989357	24.649029	24.998018
hsa-miR-22-4373079	39.788067	40	38.045452	40	37.832787	39.073795
hsa-miR-23a-4373074	37.36853	40	35.08606	40	40	39.04486
hsa-miR-23b-4373073	37.142414	40	37.49663	33.97258	34.42368	34.4221
hsa-miR-24-4373072	24.053871	25.376383	23.758911	24.12854	23.791346	24.260393
hsa-miR-25-4373071	28.083797	30.296541	27.791267	28.24591	28.199495	28.051388
hsa-miR-26a-4395166	27.638613	28.962101	27.375479	27.242105	27.382265	27.149925
hsa-miR-26b-4395167	29.041906	30.43751	28.67015	28.668234	29.335154	28.95333
hsa-miR-27a-4373287	28.193823	30.383282	28.208078	28.554	28.479422	28.373499
hsa-miR-27b-4373068	30.682486	33.75625	30.430796	30.922495	30.5101	32.570568
hsa-miR-28-3p-4395557	25.843	26.61565	25.7219	25.471485	25.829403	25.468672
hsa-miR-28-5p-4373067	28.553688	30.197847	28.283918	28.33568	28.31856	28.941542
MammU6-4395470	17.608881	19.374481	17.618391	17.63132	18.08449	18.006767
MammU6-4395470	17.835436	19.07862	17.695509	17.697935	17.862875	18.0145
hsa-miR-29a-4395223	23.370964	25.33469	23.052092	23.261513	23.223581	23.129585
hsa-miR-29b-4373288	31.55302	33.18033	31.42177	31.329233	31.458319	31.014572
hsa-miR-29c-4395171	28.963799	31.290098	28.771599	28.319756	28.333345	28.425106
hsa-miR-30b-4373290	24.83703	26.65779	24.60551	24.924522	25.132875	24.981722
hsa-miR-30c-4373060	23.166548	25.134188	22.843544	23.135466	23.494506	23.222271
hsa-miR-31-4395390	26.914906	28.000591	26.80179	26.771723	26.742743	26.664724
hsa-miR-32-4395220	33.168552	40	33.094227	33.409325	34.379322	33.297108
hsa-miR-33b-4395196	40	40	40	40	40	40
hsa-miR-34a-4395168	30.569754	31.153858	29.27342	29.874783	30.456427	30.660109
hsa-miR-34c-5p-4373036	40	40	40	40	40	40
hsa-miR-92a-4395169	26.911243	28.496006	26.647568	26.78625	26.920729	26.77183
hsa-miR-93-4373302	24.833206	26.645105	24.565514	24.985441	24.960054	24.958382
hsa-miR-95-4373011	40	40	40	40	40	40
hsa-miR-96-4373372	34.381046	35.975677	33.533314	34.521225	33.159733	35.017838
hsa-miR-98-4373009	32.3244	35.41014	32.250362	33.573486	32.742474	33.619503
hsa-miR-99a-4373008	32.06762	33.970043	31.999449	32.70067	32.349113	32.702488
hsa-miR-99b-4373007	30.219212	31.721083	29.892605	29.79635	29.895395	29.816872
hsa-miR-100-4373160	34.19743	35.76002	31.671267	30.77727	31.857224	30.936293
hsa-miR-101-4395364	33.16423	39.580414	33.51731	32.965847	32.27096	35.957302
hsa-miR-103-4373158	30.20121	32.64071	29.988104	29.890202	30.542822	30.173447
hsa-miR-105-4395278	40	40	40	40	40	40
hsa-miR-106a-4395280	21.983688	23.097038	21.796543	21.890175	21.92455	21.82686
RNU44-4373384	24.095518	25.728	23.69481	23.573074	23.491743	23.75188
hsa-miR-106b-4373155	26.842329	29.283691	26.842924	26.99888	26.941854	27.073952
hsa-miR-107-4373154	36.386585	36.666473	37.724495	35.952675	35.400837	35.979256
hsa-miR-122-4395356	40	40	40	40	40	40
hsa-miR-124-4373295	40	40	40	40	40	40
hsa-miR-125a-3p-4395310	33.508087	33.78116	33.219692	32.90113	32.40229	32.810272
hsa-miR-125a-5p-4395309	27.573698	27.51391	26.685753	26.766808	26.964674	26.59422
hsa-miR-125b-4373148	34.492306	40	33.543503	32.989887	32.732983	32.53553
hsa-miR-126-4395339	28.065994	28.752827	27.592314	27.55482	27.58506	27.57745
hsa-miR-127-3p-4373147	40	40	40	40	34.312477	40
hsa-miR-127-5p-4395340	40	40	40	40	40	40
hsa-miR-128-4395327	32.868393	34.232006	31.851332	32.557995	32.52351	33.032387
hsa-miR-129-3p-4373297	40	40	40	40	40	40
hsa-miR-129-5p-4373171	40	40	40	40	40	40
hsa-miR-130a-4373145	31.198343	33.24291	31.158075	31.517153	31.335382	31.285374
hsa-miR-130b-4373144	31.116985	31.796534	30.561193	31.947521	31.256227	31.218609
hsa-miR-132-4373143	28.891958	29.255884	28.798496	28.753563	28.611452	28.184225
hsa-miR-133a-4395357	31.72892	31.271854	30.9785	31.131208	30.494196	30.529667
hsa-miR-133b-4395358	35.873726	39.203407	35.08873	33.750504	33.0803	38.72713
hsa-miR-134-4373299	35.05755	34.530437	36.530437	34.57881	40	34.672066
hsa-miR-135a-4373140	34.12521	40	37.542263	32.96325	34.062374	35.47846
hsa-miR-135b-4395372	27.108126	29.37272	27.391644	26.756344	26.863358	27.075489
hsa-miR-136-4373173	40	40	40	40	40	40
hsa-miR-137-4373301	39.080505	40	32.739193	32.998604	31.917503	34.504704
hsa-miR-138-4395395	23.93631	24.402327	23.967497	23.776928	23.797632	23.588224
hsa-miR-139-3p-4395424	37.24153	40	37.91889	40	40	40
hsa-miR-139-5p-4395400	31.703882	31.14141	31.047173	30.402727	31.175945	30.909712

hsa-miR-140-3p-4395345	31.769833	31.673052	31.399828	30.654827	30.851038	30.45315
hsa-miR-140-5p-4373374	27.293648	28.293291	27.112074	26.856592	26.940325	27.052322
hsa-miR-141-4373137	40	40	40	40	40	40
hsa-miR-142-3p-4373136	29.45178	31.102444	29.602377	29.193394	29.288458	29.719423
hsa-miR-142-5p-4395359	38.53096	36.434265	37.514484	38.18478	35.659462	37.900925
hsa-miR-143-4395360	40	40	40	40	40	40
hsa-miR-145-4395389	36.414116	40	40	40	40	38.216297
hsa-miR-146a-4373132	26.119556	24.262821	24.861414	22.782717	22.893017	22.5104
hsa-miR-146b-3p-4395472	40	40	40	40	40	40
hsa-miR-146b-5p-4373178	29.542955	29.43403	28.596102	27.90986	27.67339	27.537191
hsa-miR-147b-4395373	40	40	40	40	40	40
hsa-miR-148a-4373130	40	40	36.72366	33.847446	34.90635	33.959633
hsa-miR-148b-4373129	33.30598	35.2663	32.266346	33.918594	33.628044	33.12323
hsa-miR-149-4395366	28.547487	29.671152	27.847136	28.454605	28.82007	28.67206
hsa-miR-150-4373127	40	40	34.365196	33.440384	34.41669	40
hsa-miR-152-4395170	31.092098	30.959793	30.223038	30.502813	29.608854	29.873453
hsa-miR-153-4373305	40	40	40	40	40	40
hsa-miR-154-4373270	40	40	40	40	40	40
hsa-miR-181a-4373117	33.172268	33.349804	32.162334	32.463875	31.686028	32.379887
hsa-miR-181c-4373115	37.013023	39.899982	37.21661	36.338554	36.89063	34.52486
hsa-miR-182-4395445	30.929344	30.707314	31.074562	30.42008	30.575808	30.459822
RNU48-4373383	21.355417	21.482573	21.304619	21.192926	21.274103	20.94643
hsa-miR-183-4395380	34.46713	34.24372	32.75589	32.47348	33.054058	32.629776
hsa-miR-184-4373113	40	40	40	40	40	40
hsa-miR-185-4395382	32.583763	40	31.914427	31.777353	31.421247	32.220615
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hsa-miR-187-4373307	40	40	40	40	40	40
hsa-miR-188-3p-4395217	40	40	40	40	40	40
hsa-miR-190-4373110	38.358562	34.816654	35.43597	34.534916	36.152454	36.460503
hsa-miR-191-4395410	24.291445	24.73943	24.009764	24.03597	24.27952	23.997606
hsa-miR-192-4373108	29.221663	30.109951	29.483362	29.30081	29.59755	29.253494
hsa-miR-193a-3p-4395361	31.983791	34.47322	32.60026	31.369986	31.267353	31.768633
hsa-miR-193a-5p-4395392	30.747988	33.915447	29.89717	29.566565	29.520638	30.314571
hsa-miR-193b-4395478	25.662592	25.661444	25.110544	25.225191	25.41412	25.287798
hsa-miR-194-4373106	32.8608	32.996082	31.622602	31.44975	30.970055	31.969269
hsa-miR-195-4373105	30.207539	31.592785	30.058455	29.70382	30.148085	30.02327
hsa-miR-196b-4395326	25.944149	26.29431	26.027443	26.021605	26.626225	26.213058
hsa-miR-197-4373102	30.012423	30.835331	29.32439	29.757933	30.256811	29.222452
hsa-miR-198-4395384	40	40	40	40	40	40
hsa-miR-199a-5p-4373272	40	40	40	40	40	40
hsa-miR-199a-3p-4395415	40	36.581974	40	40	40	40
hsa-miR-199b-5p-4373100	40	40	40	40	40	40
hsa-miR-200a-4378069	30.316473	30.406307	29.61589	29.55694	29.288696	29.1074
hsa-miR-200b-4395362	27.902357	29.708637	27.759453	26.775688	27.373322	27.19367
hsa-miR-200c-4395411	34.31522	34.378033	36.315075	33.05871	34.418884	34.826332
hsa-miR-202-4395474	40	40	40	37.36488	40	40
hsa-miR-203-4373095	31.629534	31.890373	31.83481	31.796574	30.484137	30.586002
hsa-miR-204-4373094	38.1717	40	40	40	34.35945	40
hsa-miR-205-4373093	29.262373	30.15622	28.29333	29.079641	29.508278	29.488918
hsa-miR-208b-4395401	40	40	40	40	40	40
hsa-miR-210-4373089	31.247349	32.227097	31.24011	29.811516	30.664072	30.87106
hsa-miR-214-4395417	40	40	40	40	40	40
hsa-miR-215-4373084	40	40	40	40	40	40
hsa-miR-216a-4395331	40	40	40	40	40	40
hsa-miR-216b-4395437	40	40	40	40	40	40
hsa-miR-217-4395448	40	40	40	40	40	40
hsa-miR-218-4373081	32.41974	32.98783	32.663704	32.509056	32.383682	32.739346
hsa-miR-219-5p-4373080	40	40	40	40	40	40
hsa-miR-221-4373077	26.626198	29.399141	26.111765	26.110199	26.609215	26.284159
hsa-miR-222-4395387	21.847544	22.662647	21.366524	21.352987	21.147255	21.282667
hsa-miR-223-4395406	34.225544	40	36.557213	33.85915	34.41001	33.27422
hsa-miR-224-4395210	34.87117	33.47052	31.760262	33.057262	33.23894	33.26327
hsa-miR-296-3p-4395212	35.78403	40	36.590393	40	40	40
hsa-miR-296-5p-4373066	33.118427	34.939026	32.29298	32.254383	32.789165	32.01247
hsa-miR-299-3p-4373189	36.590717	40	40	40	40	40
hsa-miR-299-5p-4373188	40	40	34.93207	35.36604	40	40
hsa-miR-301a-4373064	32.313343	34.177853	31.67069	31.158888	30.907997	30.886717
hsa-miR-301b-4395503	33.92051	36.68529	35.996346	32.90968	35.213272	32.85807
hsa-miR-302a-4378070	40	40	40	40	40	40
ath-miR159a-4373390	40	40	40	40	40	40
hsa-miR-302b-4378071	40	40	40	40	40	40
hsa-miR-302c-4378072	40	40	40	40	40	40
hsa-miR-320-4395388	26.872093	26.977468	26.228819	26.293808	26.317675	25.891174
hsa-miR-323-3p-4395338	34.22587	35.023563	32.797783	34.03828	34.09467	33.529243
hsa-miR-324-3p-4395272	32.950092	32.653664	30.862152	31.936287	31.804987	31.03673
hsa-miR-324-5p-4373052	33.163925	35.26357	33.76457	32.67283	32.727844	32.995407
hsa-miR-326-4373050	40	40	40	40	40	40
hsa-miR-328-4373049	35.558582	40	33.73954	34.59466	34.228718	35.13536
hsa-miR-329-4373191	40	40	40	40	40	40
hsa-miR-330-3p-4373047	37.455536	39.022438	36.710415	38.11167	36.947716	38.432823
hsa-miR-330-5p-4395341	40	40	40	40	40	40
hsa-miR-331-5p-4395344	40	34.252476	31.746912	35.25347	33.843266	34.170036
hsa-miR-337-5p-4395267	40	40	40	40	39.24943	40
hsa-miR-338-3p-4395363	35.620663	40	40	40	40	40
hsa-miR-339-3p-4395295	40	31.088842	30.96561	31.103922	30.913979	30.294714
hsa-miR-339-5p-4395368	40	35.09625	33.706226	32.961468	34.415585	33.90402

hsa-miR-340-4395369	38.67399	33.815536	31.714874	31.20606	30.800207	31.602495
has-miR-155-4395459	36.15579	25.557735	24.927889	24.456757	24.409958	24.088226
hsa-let-7b-4395446	39.26011	31.21608	31.12164	28.628067	30.142214	30.061577
hsa-miR-342-3p-4395371	40	28.418768	31.42916	28.00665	28.408634	27.8476
hsa-miR-342-5p-4395258	40	40	40	40	40	39.4136
hsa-miR-345-4395297	40	27.858837	26.770794	26.982193	27.156883	26.861668
hsa-miR-361-5p-4373035	39.031948	36.46193	31.30184	31.626888	31.76172	31.993166
hsa-miR-362-3p-4395228	40	40	40	36.17822	36.00299	35.13564
hsa-miR-362-5p-4378092	31.995539	33.049583	31.618195	30.941967	31.894892	30.970133
hsa-miR-363-4378090	40	35.23933	32.430927	37.102104	32.186	34.667652
hsa-miR-365-4373194	36.09136	30.44789	28.498678	28.051544	28.428652	28.471941
hsa-miR-370-4395386	40	40	40	40	40	40
hsa-miR-371-3p-4395235	36.595726	40	40	40	40	40
hsa-miR-372-4373029	40	40	35.587833	40	40	40
hsa-miR-373-4378073	40	40	40	40	40	40
hsa-miR-374a-4373028	40	29.728554	27.840141	27.777143	27.475616	27.71683
hsa-miR-374b-4381045	26.628687	28.011831	26.177343	26.30354	26.071463	26.24402
hsa-miR-375-4373027	40	40	40	40	40	40
hsa-miR-376a-4373026	33.015526	34.595177	34.268246	33.142796	33.36551	33.177994
hsa-miR-376b-4373196	40	40	40	40	40	40
hsa-miR-377-4373025	40	40	40	40	40	40
hsa-miR-379-4373349	38.18999	40	32.52976	31.799377	40	36.02911
hsa-miR-380-4373022	40	40	40	40	40	40
hsa-miR-381-4373020	40	37.406322	40	40	36.78336	40
hsa-miR-382-4373019	40	40	40	40	40	40
hsa-miR-383-4373018	40	40	40	40	40	40
hsa-miR-409-5p-4395442	40	40	40	40	40	40
hsa-miR-410-4378093	36.395744	37.689804	39.735218	40	38.36456	40
hsa-miR-411-4381013	33.981003	40	33.41215	37.660736	32.995205	32.886906
hsa-miR-422a-4395408	31.977646	32.051052	30.916224	29.798344	29.98302	29.96889
hsa-miR-423-5p-4395451	35.34555	40	40	37.11008	40	34.081146
hsa-miR-424-4373201	33.460777	40	33.3621	35.05704	33.90001	33.041965
hsa-miR-425-4380926	31.768126	32.234856	30.881823	31.022646	30.348063	30.67881
hsa-miR-429-4373203	29.667486	31.703955	29.252342	28.910187	29.163206	29.12385
hsa-miR-431-4395173	40	40	40	40	40	40
hsa-miR-433-4373205	40	40	35.79743	40	40	40
hsa-miR-449a-4373207	33.76455	33.324146	33.734577	33.757504	36.569702	33.575962
hsa-miR-449b-4381011	40	37.48833	35.35208	40	40	36.980145
hsa-miR-450a-4395414	33.591576	40	34.45056	35.104725	34.531914	40
hsa-miR-450b-3p-4395319	40	40	40	40	40	40
hsa-miR-450b-5p-4395318	31.682976	34.497093	32.6445	33.41082	39.233147	34.733536
hsa-miR-451-4373360	40	40	40	40	40	40
hsa-miR-452-4395440	34.044903	37.921352	34.704754	33.993	34.83999	33.907738
hsa-miR-453-4395429	40	40	40	40	40	40
hsa-miR-454-4395434	26.072342	26.01617	25.950714	25.691904	25.88202	25.416576
hsa-miR-455-3p-4395355	33.605576	32.70817	32.013264	31.988815	31.065117	31.975494
hsa-miR-455-5p-4378098	31.413425	32.010983	31.40273	30.354275	30.057196	30.313423
hsa-miR-483-5p-4395449	34.252995	40	34.150246	35.2884	36.14965	37.41578
hsa-miR-484-4381032	26.504028	26.236437	26.171038	25.958195	26.431885	25.853817
hsa-miR-485-3p-4378095	33.433647	40	33.46445	33.153805	39.019867	34.675236
hsa-miR-485-5p-4373212	40	40	40	40	40	40
hsa-miR-486-3p-4395204	40	37.208935	40	40	39.09829	40
hsa-miR-486-5p-4378096	40	40	40	40	40	40
hsa-miR-487a-4378097	38.02206	40	36.02481	36.369953	36.40425	35.58793
hsa-miR-487b-4378102	36.50295	40	40	37.185974	36.04588	40
hsa-miR-488-4395468	40	40	40	40	40	40
hsa-miR-489-4395469	33.892612	33.80039	31.993183	32.440376	32.47488	31.836449
hsa-miR-490-3p-4373215	40	40	40	40	40	40
hsa-miR-491-3p-4395471	40	40	40	40	38.175877	40
hsa-miR-491-5p-4381053	33.475563	32.9971	31.188858	30.962093	31.128014	31.134789
hsa-miR-493-4395475	40	40	40	40	40	40
hsa-miR-494-4395476	31.331486	37.66803	30.226158	30.131	31.750458	31.338633
hsa-miR-495-4381078	40	40	33.84359	40	40	39.29247
hsa-miR-496-4386771	40	40	40	40	40	40
hsa-miR-499-3p-4395538	40	40	40	40	40	40
hsa-miR-499-5p-4381047	40	40	40	40	40	40
hsa-miR-500-4395539	32.597477	34.85969	33.27352	32.527977	32.1282	31.791367
hsa-miR-501-3p-4395546	35.43542	40	40	40	40	36.552536
hsa-miR-501-5p-4373226	36.957172	33.42163	33.159267	33.247593	33.735054	32.44392
hsa-miR-502-3p-4395194	37.406242	40	35.76469	40	35.90949	34.638805
hsa-miR-502-5p-4373227	35.931385	40	34.98018	40	40	40
hsa-miR-503-4373228	34.80236	37.126404	35.34689	35.40631	36.90292	36.200104
hsa-miR-504-4395195	40	40	40	40	40	40
hsa-miR-505-4395200	40	40	39.93338	40	40	39.185364
hsa-miR-507-4373232	40	40	40	40	40	40
hsa-miR-508-3p-4373233	40	40	40	40	40	40
hsa-miR-508-5p-4395203	40	40	40	40	40	40
hsa-miR-509-5p-4395346	40	40	40	40	40	40
hsa-miR-510-4395352	40	40	40	40	40	40
hsa-miR-512-3p-4381034	40	40	40	40	40	40
hsa-miR-512-5p-4373238	40	40	40	40	40	40
hsa-miR-513-5p-4395201	40	40	40	40	40	40
hsa-miR-515-3p-4395480	40	40	40	40	40	40
hsa-miR-515-5p-4373242	40	40	40	40	40	40
hsa-miR-516a-5p-4395527	40	40	40	40	40	40
hsa-miR-516b-4395172	40	40	40	40	40	40

hsa-miR-517a-4395513	40	40	40	40	40	40
hsa-miR-517c-4373264	40	40	40	40	40	38.78283
hsa-miR-518a-3p-4395508	40	40	40	40	40	40
hsa-miR-518a-5p-4395507	40	40	40	40	40	40
hsa-miR-518b-4373246	38.56043	40	37.461613	34.458637	34.78111	37.48279
hsa-miR-518c-4395512	40	40	40	40	40	40
hsa-miR-518d-3p-4373248	40	40	40	40	40	40
hsa-miR-518d-5p-4395500	40	40	40	40	40	40
hsa-miR-518e-4395506	40	40	40	40	40	40
hsa-miR-518f-4395499	40	40	38.221928	40	36.932293	40
hsa-miR-519a-4395526	40	34.304157	35.02186	35.99931	40	34.0599
hsa-miR-519d-4395514	40	40	40	40	40	40
hsa-miR-519e-4395481	40	40	40	40	40	40
hsa-miR-520a-3p-4373268	40	40	40	40	40	40
hsa-miR-520a-5p-4378085	40	40	40	40	40	40
hsa-miR-520d-5p-4395504	40	40	40	40	40	40
hsa-miR-520g-4373257	40	40	40	40	40	40
hsa-miR-521-4373259	40	40	40	40	40	40
hsa-miR-522-4395524	40	40	40	40	40	34.490387
hsa-miR-523-4395497	40	40	40	40	40	40
hsa-miR-524-5p-4395174	40	40	40	40	40	40
hsa-miR-525-3p-4395496	40	40	40	40	40	40
hsa-miR-525-5p-4378088	40	40	40	40	40	40
hsa-miR-526b-4395493	40	40	40	40	40	40
hsa-miR-532-3p-4395466	31.168293	31.972343	30.75113	31.131601	31.777575	30.332115
hsa-miR-532-5p-4380928	29.66927	30.992628	28.897942	29.170261	28.82169	29.211712
hsa-miR-539-4378103	40	40	32.92509	33.530205	40	35.573418
hsa-miR-541-4395312	40	40	40	40	40	40
hsa-miR-542-3p-4378101	35.296516	40	36.86017	34.83374	36.708748	35.908592
hsa-miR-542-5p-4395351	35.125645	40	40	40	40	34.964165
hsa-miR-544-4395376	40	40	40	40	40	40
hsa-miR-545-4395378	36.884525	36.382526	34.76547	35.168804	34.26976	33.67973
hsa-miR-548a-3p-4380948	40	40	40	40	40	40
hsa-miR-548a-5p-4395523	40	40	40	40	40	40
hsa-miR-548b-3p-4380951	40	40	40	40	35.95681	40
hsa-miR-548b-5p-4395519	37.995068	40	40	40	36.1905	40
hsa-miR-548c-3p-4380993	40	40	40	40	40	40
hsa-miR-548c-5p-4395540	36.120846	40	37.196045	40	38.97708	40
hsa-miR-548d-3p-4381008	37.61504	40	40	40	40	40
hsa-miR-548d-5p-4395348	36.5043	37.107624	36.60298	36.189613	37.11287	35.092426
hsa-miR-551b-4380945	40	40	40	40	40	40
hsa-miR-556-3p-4395456	40	40	40	40	40	40
hsa-miR-556-5p-4395455	40	40	40	40	40	40
hsa-miR-561-4380938	40	40	36.185825	40	40	40
hsa-miR-570-4395458	40	40	40	36.264313	35.973095	40
hsa-miR-574-3p-4395460	26.931513	26.688438	26.291796	26.321527	26.272066	25.952374
hsa-miR-576-3p-4395462	34.063255	40	32.58639	32.81534	32.15007	35.21983
hsa-miR-576-5p-4395461	40	40	35.646996	40	40	40
hsa-miR-579-4395509	33.464878	40	33.886196	34.81513	33.354935	34.389973
hsa-miR-582-3p-4395510	40	40	40	40	40	40
hsa-miR-582-5p-4395175	40	40	40	40	40	40
hsa-miR-589-4395520	40	40	35.571472	40	40	40
hsa-miR-590-5p-4395176	27.856653	28.794228	27.829351	27.229944	27.931326	27.653526
hsa-miR-597-4380960	34.273743	40	34.35647	33.61414	33.520996	36.009735
hsa-miR-598-4395179	31.659395	32.43613	30.929632	30.938755	31.210125	31.76635
hsa-miR-615-3p-4386777	40	39.689026	40	40	40	40
hsa-miR-615-5p-4395464	40	40	40	40	40	40
hsa-miR-616-4395525	40	40	40	35.303585	40	40
hsa-miR-618-4380996	38.853775	40	38.76743	37.181797	37.51931	35.96218
hsa-miR-624-4395541	40	40	40	40	40	40
hsa-miR-625-4395542	34.25572	35.337917	35.045265	33.80654	32.533398	32.877327
hsa-miR-627-4380967	40	40	39.196426	39.524162	40	37.16527
hsa-miR-628-5p-4395544	34.090748	32.547813	32.942467	33.58182	33.202793	31.893667
hsa-miR-629-4395547	40	40	37.51898	40	40	40
hsa-miR-636-4395199	36.651596	34.862648	34.60566	35.60414	35.8618	34.06642
hsa-miR-642-4380995	40	37.51715	37.18005	40	40	36.2423
hsa-miR-651-4381007	40	40	40	40	40	40
hsa-miR-652-4395463	32.417427	34.774754	31.435764	31.676567	32.54069	32.875378
hsa-miR-653-4395403	40	40	40	40	40	40
hsa-miR-654-3p-4395350	40	40	40	38.200867	40	40
hsa-miR-654-5p-4381014	40	40	40	40	40	40
hsa-miR-655-4381015	35.110634	40	35.40331	38.774815	38.67013	40
hsa-miR-660-4380925	30.790808	32.397938	29.546684	30.392267	30.62546	30.508652
hsa-miR-671-3p-4395433	32.95387	36.284775	32.02846	31.98849	32.219154	32.637623
hsa-miR-672-4395438	40	40	40	40	40	40
hsa-miR-674-4395193	40	40	40	40	40	40
hsa-miR-708-4395452	26.029385	27.496567	25.698267	26.337519	26.42663	26.260286
hsa-miR-744-4395435	30.261553	31.337708	29.80798	31.27666	30.793	30.91408
hsa-miR-758-4395180	40	40	34.50199	36.62195	40	40
hsa-miR-871-4395465	40	40	40	40	40	40
hsa-miR-872-4395375	40	40	40	40	40	40
hsa-miR-873-4395467	40	40	40	40	40	40
hsa-miR-874-4395379	40	40	40	40	40	40
hsa-miR-875-3p-4395315	40	40	40	40	40	40
hsa-miR-876-3p-4395336	40	40	40	40	40	40
hsa-miR-876-5p-4395316	40	40	40	40	37.36197	40

hsa-miR-885-3p-4395483	40	40	40	40	40	40
hsa-miR-885-5p-4395407	34.712467	40	40	40	40	40
hsa-miR-886-3p-4395305	28.78856	31.979486	29.240303	29.003668	28.649479	29.070885
hsa-miR-886-5p-4395304	29.136698	30.377531	28.971907	28.483606	28.3451	28.698748
hsa-miR-887-4395485	40	40	40	40	40	40
hsa-miR-888-4395323	40	40	40	40	40	40
hsa-miR-889-4395313	40	40	40	40	37.852356	40
hsa-miR-890-4395320	40	40	40	40	40	40
hsa-miR-891a-4395302	40	40	40	40	40	40
hsa-miR-891b-4395321	40	40	40	40	40	40
hsa-miR-892a-4395306	40	40	40	40	40	40
hsa-miR-147-4373131	39.712204	40	40	40	40	40
hsa-miR-208-4373091	40	40	39.093346	33.271523	40	38.483696
hsa-miR-211-4373088	40	40	40	40	40	40
hsa-miR-212-4373087	32.794434	34.12829	32.96755	34.010387	32.82974	31.809982
hsa-miR-219-1-3p-4395206	40	40	36.74062	40	35.385735	36.657345
hsa-miR-219-2-3p-4395501	40	40	40	40	40	40
hsa-miR-220-4373078	40	40	40	40	40	40
hsa-miR-220b-4395317	40	40	40	40	40	40
hsa-miR-220c-4395322	40	40	40	40	40	40
hsa-miR-298-4395301	40	40	40	40	40	40
hsa-miR-325-4373051	40	40	40	40	40	40
hsa-miR-346-4373038	40	40	37.045994	37.514015	36.6041	40
hsa-miR-376c-4395233	34.026047	34.81744	34.601864	33.738876	34.420464	33.35028
hsa-miR-384-4373017	40	40	40	40	40	40
hsa-miR-412-4373199	40	40	40	40	40	40
hsa-miR-448-4373206	40	40	40	40	40	40
hsa-miR-492-4373217	40	40	40	40	40	40
hsa-miR-506-4373231	40	40	40	40	40	40
hsa-miR-509-3-5p-4395266	40	40	40	40	40	40
hsa-miR-511-4373236	40	40	40	40	40	40
hsa-miR-517b-4373244	40	40	40	40	40	40
hsa-miR-519c-3p-4373251	40	40	40	40	40	40
hsa-miR-520b-4373252	40	40	40	40	40	40
hsa-miR-520e-4373255	40	40	40	40	40	40
hsa-miR-520f-4373256	40	40	40	40	40	40
hsa-miR-30a*-4373062	23.294704	23.159376	23.040762	23.93893	23.884787	23.688707
hsa-miR-30e*-4373057	24.234154	23.92764	23.828812	24.719435	24.597118	24.519049
hsa-miR-34b*-4373037	40	40	40	40	40	40
hsa-miR-126*-4373269	33.44678	32.202274	32.96667	32.29883	31.678513	31.916199
hsa-miR-154*-4378065	34.758945	40	40	40	40	40
hsa-miR-182*-4378066	33.525032	40	34.649715	40	37.41762	40
hsa-miR-181a*-4373086	32.1792	34.26763	34.190487	33.125793	33.75108	33.135014
hsa-miR-302c*-4373277	40	40	40	40	40	40
hsa-miR-373*-4373279	40	40	40	40	40	40
hsa-miR-378*-4373024	33.181274	34.32486	34.215343	34.456875	33.356327	32.891117
MammU6-4395470	18.045008	17.570177	18.06658	18.102633	18.112793	18.392967
MammU6-4395470	18.258713	17.619125	17.864622	17.950087	18.078356	18.170483
hsa-miR-380*-4373021	40	40	40	40	40	40
hsa-miR-200a*-4373273	31.19876	31.246944	31.257435	31.425383	30.96835	31.312315
hsa-miR-432*-4378076	34.41852	34.75807	34.721645	40	32.809704	33.593597
hsa-miR-493*-4373218	40	40	40	40	40	40
hsa-miR-500*-4373225	40	40	35.38755	35.939617	40	40
hsa-miR-488*-4373213	40	40	40	40	40	40
hsa-miR-517*-4378078	40	40	40	40	40	40
hsa-miR-518c*-4378082	40	40	40	40	40	40
hsa-miR-519e*-4378084	40	40	40	40	40	40
hsa-let-7d*-4378108	35.43357	37.577766	34.68331	35.87343	36.91196	38.244778
hsa-miR-363*-4380917	40	40	35.025707	34.716434	40	40
hsa-miR-7-1*-4381118	29.833942	29.794792	29.128994	29.697483	29.626717	28.950802
hsa-miR-589*-4380953	34.190582	32.816	32.963673	32.822823	34.712673	32.749504
hsa-miR-550*-4380954	30.42934	30.676004	30.633385	30.538605	30.867338	30.571997
hsa-miR-593*-4380957	40	40	40	40	40	40
hsa-miR-624*-4380964	40	40	40	40	40	40
hsa-miR-629*-4380969	33.08978	33.440376	33.503223	32.837894	33.02162	32.861446
hsa-miR-616*-4380992	36.558125	37.0097	40	37.12546	40	34.97979
hsa-miR-29c*-4381131	35.17657	36.846687	36.519047	33.95579	34.699135	36.414925
hsa-miR-454*-4395185	33.864223	33.727623	33.069756	33.548695	34.61015	33.940296
hsa-miR-505*-4395198	40	38.16221	40	38.715687	38.011276	35.385414
hsa-miR-221*-4395207	40	40	40	40	40	40
MammU6-4395470	17.944756	17.564909	18.161047	18.046515	18.027071	18.017517
MammU6-4395470	18.181934	17.640417	17.887272	17.913	17.969248	18.347286
hsa-miR-222*-4395208	27.96603	28.108538	28.781664	28.160196	28.112703	27.653458
hsa-miR-223*-4395209	40	40	40	40	40	37.143764
hsa-miR-136*-4395211	40	40	40	40	40	40
hsa-miR-185*-4395215	40	40	40	40	40	40
hsa-miR-186*-4395216	40	40	40	40	40	40
hsa-miR-195*-4395218	40	40	40	40	40	40
hsa-miR-30c-1*-4395219	35.475784	40	40	40	40	40
hsa-miR-30c-2*-4395221	39.484604	40	40	37.007618	40	36.34053
hsa-miR-32*-4395222	40	40	40	40	40	40
hsa-miR-130b*-4395225	33.404896	32.4326	32.64214	33.73578	32.7032	33.865837
hsa-miR-26a-2*-4395226	40	40	40	35.5779	40	40
hsa-let-7g*-4395229	39.385612	40	36.7849	40	35.81694	37.263718
hsa-miR-302b*-4395230	40	40	40	40	40	40
hsa-miR-302d*-4395231	40	40	40	40	40	40

hsa-miR-367*-4395232	40	40	40	40	40	40
hsa-miR-374a*-4395236	36.524986	40	37.641846	36.87016	35.345123	38.50895
hsa-miR-23b*-4395237	40	40	40	40	40	40
hsa-miR-376a*-4395238	40	40	40	40	40	40
hsa-miR-377*-4395239	40	40	40	40	40	40
hsa-miR-30b*-4395240	40	40	40	40	40	40
hsa-miR-122*-4395241	40	40	40	40	40	40
hsa-miR-130a*-4395242	40	39.269302	40	40	40	39.12895
RNU48-4373383	21.080154	20.929688	20.854025	21.013939	21.1591	20.95436
RNU48-4373383	20.98216	20.89727	20.782051	20.975243	21.26076	20.89944
hsa-miR-132*-4395243	40	40	40	40	40	40
hsa-miR-379*-4395244	40	40	40	40	40	40
hsa-miR-148a*-4395245	40	40	40	40	40	40
hsa-miR-33a*-4395247	32.811146	32.267136	33.48241	31.5337	32.569424	32.269436
hsa-miR-92a-1*-4395248	33.74716	40	34.886227	33.503788	33.92006	33.57335
hsa-miR-92a-2*-4395249	40	40	40	40	40	40
hsa-miR-93*-4395250	26.506046	26.437794	26.173298	26.6144	26.942448	26.408998
hsa-miR-96*-4395251	40	40	40	40	40	40
hsa-miR-99a*-4395252	40	40	34.839897	40	40	40
hsa-miR-100*-4395253	40	40	40	40	40	40
hsa-miR-101*-4395254	40	40	40	40	40	40
hsa-miR-138-2*-4395255	33.496346	35.01028	40	40	40	35.657032
hsa-miR-141*-4395256	40	40	40	40	40	40
hsa-miR-143*-4395257	40	40	40	40	40	40
hsa-miR-144*-4395259	40	37.43872	40	40	40	40
hsa-miR-145*-4395260	40	40	40	40	40	40
hsa-miR-125b-2*-4395269	40	40	40	40	40	40
hsa-miR-135b*-4395270	32.584194	33.133656	40	33.66468	32.813915	32.557636
hsa-miR-148b*-4395271	36.749393	32.529938	33.51203	33.546783	33.11495	36.885784
hsa-miR-138-1*-4395273	31.022964	31.171207	31.63199	31.362288	32.23576	31.34332
hsa-miR-146a*-4395274	40	40	40	40	40	40
hsa-miR-149*-4395275	35.00426	34.73356	33.510582	32.959335	35.079586	33.671913
RNU48-4373383	21.110826	20.952127	20.79287	20.984333	21.219793	20.904425
RNU48-4373383	21.007042	20.871815	20.77456	20.989473	21.204262	20.90206
hsa-miR-29b-1*-4395276	34.146652	40	37.14544	35.06446	39.08517	33.01344
hsa-miR-29b-2*-4395277	40	40	40	40	40	40
hsa-miR-105*-4395279	40	40	40	40	40	40
hsa-miR-106a*-4395281	40	40	40	40	40	40
hsa-miR-16-2*-4395282	40	40	40	40	40	40
hsa-let-7i*-4395283	35.958153	40	40	33.845234	34.51703	33.65074
hsa-miR-15b*-4395284	28.940395	29.814722	29.614264	30.316645	29.637424	29.7516
hsa-miR-27b*-4395285	34.267605	32.35004	32.62722	33.903103	33.215714	32.72449
hsa-miR-335*-4395296	40	40	40	40	40	40
hsa-miR-99b*-4395307	32.489075	32.210114	31.641571	33.036613	31.975815	30.958744
hsa-miR-124*-4395308	40	40	40	40	40	40
hsa-miR-541*-4395311	40	40	40	40	40	40
hsa-miR-888*-4395324	40	40	40	40	40	40
hsa-miR-9*-4395342	32.039875	34.37678	33.78118	32.28186	33.907494	32.761486
hsa-miR-135a*-4395343	27.032154	26.851257	26.967112	26.779318	26.925238	26.837227
hsa-miR-411*-4395349	40	40	40	40	37.38673	40
hsa-miR-340*-4395370	33.302383	32.404446	34.42616	33.609802	33.508663	33.20762
hsa-miR-545*-4395377	39.098385	38.97177	39.446377	36.199913	38.008606	37.94678
hsa-miR-183*-4395381	30.052586	31.228926	30.393599	30.63272	31.159986	30.577143
hsa-miR-192*-4395383	35.665234	40	33.309486	40	35.494076	34.146767
hsa-miR-200b*-4395385	33.467606	31.270487	32.62578	32.31227	32.676304	32.97298
hsa-miR-200c*-4395397	40	40	40	40	40	40
RNU44-4373384	23.27349	23.375986	23.343557	22.933561	23.49778	22.991356
RNU44-4373384	23.259407	23.260351	23.35818	23.115482	23.586065	22.810259
hsa-miR-155*-4395398	40	35.441467	40	40	40	39.012047
hsa-miR-10a*-4395399	38.273304	33.239594	38.78562	40	40	33.20586
hsa-miR-214*-4395404	40	40	40	40	40	40
hsa-miR-218-2*-4395405	40	40	40	40	40	40
hsa-miR-22*-4395412	33.15939	32.881966	33.321457	33.329334	34.46682	34.37733
hsa-miR-425*-4395413	32.862103	32.614143	32.531925	35.276882	34.357998	33.01876
hsa-miR-30d*-4395416	32.395756	31.959284	34.24627	33.048576	34.27454	32.76624
hsa-let-7a*-4395418	35.791157	40	40	40	40	40
hsa-miR-424*-4395420	32.04073	31.307285	33.379776	32.477554	33.502094	33.64687
hsa-miR-18b*-4395421	40	40	40	40	40	40
hsa-miR-20b*-4395422	40	40	40	40	40	40
hsa-miR-431*-4395423	40	40	40	40	40	40
hsa-miR-7-2*-4395425	40	40	40	40	40	36.622005
hsa-miR-10b*-4395426	32.304173	35.08335	32.79432	33.32167	33.292095	33.186348
hsa-miR-34a*-4395427	30.978342	30.846756	31.474104	32.797752	32.466164	31.10435
hsa-miR-181a-2*-4395428	29.4853	29.420416	29.471811	30.284765	30.334236	29.723326
hsa-miR-744*-4395436	36.49931	40	34.32658	35.436436	35.90275	34.06421
hsa-miR-452*-4395441	40	40	40	40	40	40
hsa-miR-181c*-4395444	35.07591	35.777493	39.718178	40	40	35.939865
hsa-miR-708*-4395453	40	40	35.56985	40	40	40
hsa-miR-92b*-4395454	34.69879	40	34.93663	34.845516	40	35.671535
hsa-miR-551b*-4395457	40	40	40	40	40	40
RNU44-4373384	23.21951	23.136566	23.676855	22.944065	23.653654	22.856642
RNU44-4373384	22.962727	23.311224	23.419703	23.057383	23.471516	23.081947
hsa-miR-202*-4395473	40	40	40	40	40	40
hsa-miR-193b*-4395477	33.04793	36.31658	34.745846	32.162193	33.8021	31.825037
hsa-miR-497*-4395479	40	40	40	40	40	40
hsa-miR-518e*-4395482	40	40	40	40	40	40

hsa-miR-125b-1*-4395489	40	40	40	40	40	40
hsa-miR-194*-4395490	40	40	40	40	40	40
hsa-miR-106b*-4395491	34.761288	36.5932	36.030052	36.076992	37.34631	39.979313
hsa-miR-302a*-4395492	40	40	40	40	40	40
hsa-miR-526b*-4395494	40	40	40	40	37.5081	40
hsa-miR-518f*-4395498	40	40	40	40	40	40
hsa-miR-374b*-4395502	36.710037	40	40	40	40	36.44192
hsa-let-7b*-4395515	40	40	40	40	35.713017	40
hsa-let-7e*-4395518	39.525513	37.828407	36.759712	36.89164	40	37.83718
hsa-let-7f-1*-4395528	40	40	37.316643	34.528618	35.193462	35.951294
hsa-let-7f-2*-4395529	40	40	38.940403	40	36.36375	35.75842
hsa-miR-15a*-4395530	32.029606	33.388035	32.99589	32.319283	32.671535	32.30505
hsa-miR-16-1*-4395531	33.39657	33.2721	33.070755	32.898895	34.02433	32.831463
hsa-miR-17*-4395532	33.406647	35.071373	32.839844	35.06757	35.868656	37.104977
hsa-miR-18a*-4395534	32.93347	31.731205	33.812866	32.824635	32.406063	32.27085
hsa-miR-19a*-4395535	35.87897	36.12188	40	40	40	36.280518
hsa-miR-19b-1*-4395536	31.096546	31.138523	31.414711	30.904493	30.978535	31.032135
hsa-miR-19b-2*-4395537	40	40	40	40	40	40
hsa-miR-625*-4395543	27.400019	26.95155	27.163763	26.388521	26.656746	26.227695
hsa-miR-20a*-4395548	31.945927	31.798101	32.61164	32.286552	31.798725	31.979404
hsa-miR-21*-4395549	29.679655	30.591206	31.824188	30.107925	29.919088	29.94999
hsa-miR-23a*-4395550	40	40	40	40	40	40
hsa-miR-24-1*-4395551	40	40	40	40	40	40
hsa-miR-25*-4395553	35.79374	37.91328	37.830547	33.886147	35.923645	33.15269
hsa-miR-26a-1*-4395554	33.734276	32.810688	33.26936	33.742756	33.44502	32.951935
hsa-miR-26b*-4395555	33.47952	34.574566	34.07913	34.646744	34.409294	34.54002
hsa-miR-27a*-4395556	30.246264	30.461842	30.820463	30.938124	30.697803	30.33841
hsa-miR-29a*-4395558	32.85544	33.82492	35.620613	33.188126	33.777905	32.529713
hsa-miR-944-4395300	40	40	40	40	40	40
hsa-miR-943-4395299	40	35.95504	40	36.837013	37.241894	40
hsa-miR-942-4395298	34.55345	33.758358	33.625477	33.780586	34.49927	40
hsa-miR-941-4395294	32.616917	33.576824	33.219532	33.73128	33.091656	40
hsa-miR-939-4395293	36.583862	36.241188	35.772728	35.909233	36.518196	39.025757
hsa-miR-938-4395292	40	40	40	40	40	40
hsa-miR-937-4395291	40	40	40	40	40	40
hsa-miR-936-4395290	40	40	40	40	40	40
hsa-miR-892b-4395325	40	40	40	40	40	40
hsa-miR-877-4395402	33.92141	34.40238	33.079178	34.81581	32.602768	40
hsa-miR-875-5p-4395314	40	40	40	40	40	40
hsa-miR-770-5p-4395189	40	40	37.882206	40	36.37531	40
hsa-miR-760-4395439	34.57767	36.459156	40	33.587097	37.338615	28.883667
hsa-miR-661-4381009	33.769733	38.358284	40	35.250908	35.888245	34.373077
hsa-miR-659-4380924	40	40	40	40	40	40
hsa-miR-643-4380997	37.964066	40	38.142822	36.45944	40	24.960835
hsa-miR-632-4380977	37.271988	40	33.460884	31.792461	33.71157	39.769962
hsa-miR-630-4380970	38.196846	37.349987	35.908913	36.241062	38.892082	40
hsa-miR-619-4380998	40	40	40	40	40	40
hsa-miR-617-4380994	40	40	40	40	40	40
hsa-miR-612-4380983	40	40	40	40	40	40
hsa-miR-610-4380980	37.39433	38.732536	38.214916	40	40	40
hsa-miR-603-4380972	40	40	40	40	40	40
hsa-miR-601-4380965	37.334118	40	40	38.528168	40	40
hsa-miR-595-4395178	40	40	40	40	40	40
hsa-miR-593-4395522	40	40	40	40	40	40
hsa-miR-592-4380956	40	39.358795	34.292423	37.33419	39.89138	36.745255
hsa-miR-587-4380950	40	40	40	40	40	40
hsa-miR-586-4380949	40	34.555607	40	40	40	40
hsa-miR-585-4381027	40	40	40	40	40	40
hsa-miR-583-4381025	40	40	40	40	40	40
hsa-miR-575-4381020	40	40	40	40	40	40
hsa-miR-573-4381018	40	36.379646	36.990456	36.48875	36.191235	35.53028
RNU43-4373375	33.314724	34.12528	33.177654	32.94017	32.037	32.24469
RNU43-4373375	32.525448	34.878567	33.489376	31.579285	32.836143	31.788406
RNU6B-4373381	32.839005	33.79631	33.76895	32.553116	33.56405	33.04878
RNU6B-4373381	32.915783	33.53307	32.700493	33.22722	33.072865	32.405277
hsa-miR-569-4380946	40	40	40	40	40	40
hsa-miR-567-4380944	40	40	40	40	40	40
hsa-miR-565-4380942	31.131323	31.7426	31.467245	31.070253	31.878119	31.072367
hsa-miR-564-4380941	34.736084	40	33.434708	32.03303	40	39.081856
hsa-miR-563-4380940	40	40	40	40	40	40
hsa-miR-558-4380936	40	40	40	40	40	40
hsa-miR-557-4380935	40	40	40	40	40	40
hsa-miR-555-4380933	40	40	40	40	40	40
hsa-miR-554-4380932	40	40	40	40	40	40
hsa-miR-553-4380931	40	40	40	40	40	40
hsa-miR-552-4380930	40	40	40	40	40	40
hsa-miR-551a-4380929	40	40	40	40	40	40
hsa-miR-550-4395521	32.15085	32.253242	31.806269	32.42111	32.224087	31.926832
hsa-miR-549-4380921	40	40	40	37.38618	40	40
hsa-miR-543-4395487	40	40	40	40	40	40
hsa-miR-520h-4373258	40	40	40	40	40	40
hsa-miR-520c-3p-4395511	36.56207	40	40	37.469616	38.96036	40
hsa-miR-516a-3p-4373183	34.660515	35.571316	40	36.7782	38.758076	37.059708
hsa-miR-513-3p-4395202	40	40	40	40	40	40
hsa-miR-509-3p-4395347	37.194637	35.527798	36.981342	36.689846	36.99444	35.58799
RNU43-4373375	31.851671	33.02105	32.045288	32.792515	32.718983	31.242805

RNU43-4373375	31.783731	33.27317	32.58418	32.271492	32.476105	31.988585
RNU6B-4373381	32.75821	33.322395	33.12132	32.483665	33.224304	33.14731
RNU6B-4373381	32.585712	33.826103	32.744415	32.30722	33.73342	32.71169
ath-miR159a-4373390	40	40	40	40	40	40
hsa-miR-498-4373223	40	40	40	40	40	40
hsa-miR-378-4395354	27.198805	27.194185	27.416548	27.050634	27.00999	26.71966
hsa-miR-337-3p-4395268	40	40	40	40	40	40
hsa-miR-30e-4395334	25.7254	25.533487	25.87255	25.79276	25.671013	25.664845
hsa-miR-30a-4373061	27.184862	27.325703	27.65063	27.445099	27.619204	27.212042
hsa-miR-206-4373092	40	37.853962	34.925156	37.277485	34.396168	40
hsa-miR-190b-4395374	38.670265	31.75762	33.68525	39.533676	32.186893	32.07059
hsa-miR-188-5p-4395431	32.62504	31.627113	31.201452	31.751984	32.24371	31.085876
hsa-miR-151-3p-4395365	26.683493	26.805471	26.621773	26.95535	26.882683	26.866138
hsa-miR-935-4395289	36.613766	35.52818	35.450047	35.41869	36.395958	36.52344
hsa-miR-934-4395288	40	40	40	40	40	40
hsa-miR-933-4395287	40	40	40	40	40	40
hsa-miR-924-4395265	40	40	40	40	40	40
hsa-miR-923-4395264	31.501848	31.941	34.851746	29.959171	32.494884	31.156319
hsa-miR-922-4395263	40	40	40	40	40	40
hsa-miR-921-4395262	40	40	40	40	40	40
hsa-miR-920-4395261	40	40	40	40	40	40
hsa-miR-801-4395183	33.699863	32.725986	33.91378	34.164364	35.853554	35.141457
hsa-miR-769-5p-4395186	31.09293	31.592064	31.56012	31.136768	31.700914	30.983915
hsa-miR-769-3p-4395190	40	40	40	40	40	40
hsa-miR-768-3p-4395188	28.62092	28.68146	29.349241	28.408524	28.786669	28.744667
hsa-miR-767-5p-4395182	40	40	40	40	40	40
hsa-miR-767-3p-4395184	40	40	40	40	40	40
hsa-miR-766-4395177	33.40571	33.423206	31.375149	32.845913	34.67234	32.39851
hsa-miR-7-4378130	33.075993	35.377583	33.6349	33.740807	34.975418	32.988617
hsa-miR-675-4395192	40	40	40	40	40	40
hsa-miR-668-4395181	40	40	40	40	40	40
hsa-miR-662-4381010	40	40	40	40	40	40
hsa-miR-658-4380923	40	40	40	40	40	40
hsa-miR-657-4380922	40	40	40	40	40	40
hsa-miR-656-4380920	40	40	40	40	40	39.77353
hsa-miR-650-4381006	40	40	40	40	40	40
hsa-miR-649-4381005	40	40	40	40	40	40
hsa-miR-935-4395289	38.705803	37.199142	37.950176	37.151466	38.03481	36.90822
hsa-miR-934-4395288	40	40	40	40	40	40
hsa-miR-933-4395287	40	40	40	40	40	40
hsa-miR-924-4395265	40	40	40	40	40	40
hsa-miR-923-4395264	30.766487	31.552874	32.676964	30.10083	31.970482	31.011633
hsa-miR-922-4395263	40	40	40	40	40	40
hsa-miR-921-4395262	40	40	40	40	40	40
hsa-miR-920-4395261	40	40	40	40	40	40
hsa-miR-801-4395183	32.384426	31.776018	35.860836	34.001865	33.86064	35.068813
hsa-miR-769-5p-4395186	31.795849	31.256227	31.229069	31.439817	31.96676	30.788498
hsa-miR-769-3p-4395190	40	40	40	40	40	40
hsa-miR-768-3p-4395188	28.49162	28.908468	29.254025	28.745125	28.985912	28.795128
hsa-miR-767-5p-4395182	40	40	40	40	40	40
hsa-miR-767-3p-4395184	40	40	40	40	40	40
hsa-miR-766-4395177	34.822453	31.68179	31.096077	31.169304	32.138676	32.929523
hsa-miR-7-4378130	33.97358	34.083645	33.983425	33.844753	33.091938	34.442177
hsa-miR-675-4395192	40	40	40	40	40	40
hsa-miR-668-4395181	40	40	40	40	40	40
hsa-miR-662-4381010	40	40	40	40	40	40
hsa-miR-658-4380923	40	40	40	40	40	40
hsa-miR-657-4380922	40	40	40	40	40	40
hsa-miR-656-4380920	40	40	40	40	40	40
hsa-miR-650-4381006	40	37.007122	40	40	40	40
hsa-miR-649-4381005	40	40	40	40	40	40
hsa-miR-648-4381004	40	40	40	40	40	40
hsa-miR-647-4381003	40	40	40	40	40	40
hsa-miR-646-4381002	40	40	40	40	40	40
hsa-miR-645-4381000	40	40	40	40	40	40
hsa-miR-644-4380999	40	40	40	40	40	40
hsa-miR-641-4380988	40	40	40	40	40	40
hsa-miR-640-4386743	35.992474	36.762787	40	40	40	40
hsa-miR-639-4380987	40	40	40	40	38.004715	40
hsa-miR-637-4380985	40	40	40	40	40	40
hsa-miR-635-4380982	40	38.251045	40	40	40	40
hsa-miR-634-4380981	40	40	40	40	40	40
hsa-miR-633-4380979	40	40	40	40	40	40
hsa-miR-631-4380971	40	40	40	40	40	40
hsa-miR-628-3p-4395545	36.58539	33.196472	40	32.98559	32.841908	40
hsa-miR-626-4380966	40	40	40	40	40	40
hsa-miR-623-4386740	40	40	40	40	40	40
hsa-miR-622-4380961	40	40	40	40	40	40
hsa-miR-621-4381001	40	40	40	40	40	40
hsa-miR-614-4380990	40	40	40	40	40	40
hsa-miR-613-4380989	40	40	40	40	40	40
hsa-miR-609-4380978	40	40	40	40	40	40
hsa-miR-608-4380976	40	40	40	40	40	40
hsa-miR-607-4380975	40	40	40	40	40	40
hsa-miR-606-4380974	40	40	40	40	40	40
hsa-miR-605-4386742	35.312008	34.21591	34.0786	33.78825	37.61496	37.68508

hsa-miR-604-4380973	40	40	40	40	40	40
hsa-miR-600-4380963	40	40	40	40	40	40
hsa-miR-599-4380962	40	40	40	40	40	40
hsa-miR-596-4380959	32.022697	31.048952	30.733282	40	31.609282	30.762892
hsa-miR-591-4380955	40	40	40	40	40	40
hsa-miR-588-4380952	40	40	40	40	40	40
hsa-miR-584-4381026	33.622566	31.25671	30.34676	37.043945	33.588932	30.575798
hsa-miR-581-4386744	40	40	40	39.202003	40	40
hsa-miR-580-4381024	40	40	40	40	40	40
hsa-miR-578-4381022	40	40	40	40	40	40
hsa-miR-572-4381017	34.61434	40	38.630295	36.67867	40	39.154625
hsa-miR-571-4381016	38.015213	36.37319	35.947067	37.70015	38.885754	39.38037
hsa-miR-566-4380943	40	40	40	40	40	40
hsa-miR-562-4380939	40	40	40	40	40	40
hsa-miR-559-4380937	40	40	40	40	40	40
hsa-miR-524-3p-4378087	40	40	40	40	40	40
hsa-miR-519b-3p-4395495	40	40	40	40	40	40
hsa-miR-497-4373222	40	40	40	40	40	40
hsa-miR-432-4373280	40	40	40	40	40	40
hsa-miR-409-3p-4395443	34.950058	33.555782	34.33509	33.038063	34.753056	34.919743
hsa-miR-361-3p-4395227	40	40	34.855686	40	33.804504	33.248905
hsa-miR-30d-4373059	30.716011	31.863434	31.472181	30.288086	31.076014	30.920948
hsa-miR-302d-4373063	40	40	40	40	40	40
hsa-miR-648-4381004	40	40	40	40	40	40
hsa-miR-647-4381003	40	40	40	40	40	40
hsa-miR-646-4381002	40	40	40	40	40	40
hsa-miR-645-4381000	40	40	40	40	40	40
hsa-miR-644-4380999	40	40	40	40	40	40
hsa-miR-641-4380988	40	40	40	40	40	40
hsa-miR-640-4386743	40	40	40	40	40	40
hsa-miR-639-4380987	37.492336	38.51125	34.07018	34.590027	40	36.27839
hsa-miR-637-4380985	40	40	40	40	40	40
hsa-miR-635-4380982	40	40	40	40	40	40
hsa-miR-634-4380981	40	40	40	40	40	40
hsa-miR-633-4380979	40	40	40	40	40	40
hsa-miR-631-4380971	40	40	40	40	40	40
hsa-miR-628-3p-4395545	40	40	40	39.08868	34.12962	33.395023
hsa-miR-626-4380966	40	40	40	40	40	40
hsa-miR-623-4386740	40	40	40	40	40	40
hsa-miR-622-4380961	40	36.909054	40	40	40	40
hsa-miR-621-4381001	40	40	40	40	40	40
hsa-miR-614-4380990	40	40	40	40	40	40
hsa-miR-613-4380989	40	40	40	40	40	40
hsa-miR-609-4380978	40	40	40	40	40	40
hsa-miR-608-4380976	40	40	40	40	40	40
hsa-miR-607-4380975	40	40	40	40	40	40
hsa-miR-606-4380974	40	40	40	40	40	40
hsa-miR-605-4386742	40	37.104973	37.974796	38.866337	37.244396	37.354847
hsa-miR-604-4380973	40	40	40	40	40	40
hsa-miR-600-4380963	40	40	40	40	40	40
hsa-miR-599-4380962	40	40	40	40	40	40
hsa-miR-596-4380959	33.988766	31.477898	31.049168	31.430166	31.202738	31.654568
hsa-miR-591-4380955	40	40	40	40	40	40
hsa-miR-588-4380952	40	40	40	40	40	40
hsa-miR-584-4381026	31.204489	29.888292	30.254608	33.0238	34.664894	30.7558
hsa-miR-581-4386744	40	40	40	40	40	40
hsa-miR-580-4381024	40	40	40	40	40	40
hsa-miR-578-4381022	40	40	40	40	40	40
hsa-miR-572-4381017	40	39.239796	34.575645	40	40	35.733494
hsa-miR-571-4381016	40	35.85639	39.10927	36.476494	39.917377	37.303223
hsa-miR-566-4380943	40	40	40	40	40	40
hsa-miR-562-4380939	40	40	40	40	40	40
hsa-miR-559-4380937	40	40	40	40	40	40
hsa-miR-524-3p-4378087	40	40	40	40	40	40
hsa-miR-519b-3p-4395495	40	40	40	40	40	40
hsa-miR-497-4373222	40	40	40	40	40	40
hsa-miR-432-4373280	40	40	40	40	40	40
hsa-miR-409-3p-4395443	35.538776	36.155025	34.517593	33.42047	34.31097	33.991776
hsa-miR-361-3p-4395227	35.38755	34.260284	40	36.496223	36.43723	34.823174
hsa-miR-30d-4373059	30.833525	31.59261	31.07731	30.435158	31.43322	31.153017
hsa-miR-302d-4373063	40	40	40	40	40	40

Supplemental Table 2. Raw data from a NF- κ B PCR array of pre-miR-control-transfected and pre-miR-146a-transfected HK-2 cells exposed to 50 ng/mL IL-1 β for 24 hours.

Symbol	Fold Change	P-value
IL8	0.34	0.0001
LTBR	0.52	0.001
IL1A	0.43	0.002
IRAK1	0.31	0.003
IL6	0.33	0.004
NFKB1	0.68	0.005
IKBKE	0.69	0.006
NFKBIA	0.70	0.007
TBK1	1.36	0.009
ACTB	1.20	0.015
ELK1	1.20	0.016
STAT1	1.87	0.021
RIPK1	1.59	0.021
SLC20A1	1.64	0.026
IRAK2	0.41	0.032
JUN	0.53	0.035
LTA	0.41	0.036
MALT1	0.56	0.045
TNFSF10	1.62	0.047
MAP3K1	0.63	0.048
F2R	1.29	0.051
CCL2	0.67	0.052
RAF1	0.85	0.063
ICAM1	0.72	0.068
TNF	0.52	0.068
TNFRSF10B	1.25	0.073
IFNA1	0.70	0.093
IFNB1	0.70	0.093
IFNG	0.70	0.093
NLRP12	0.70	0.093
TLR7	0,70	0.093
TLR8	0.70	0.093
TLR9	0.70	0.093
CD27	1.49	0.096
IKBKB	0.69	0.098
TICAM2	1.43	0.114
FADD	1.32	0.124
IL1B	0.39	0.125
IL1R1	0.53	0.137
AKT1	1.33	0.149
AGT	1.26	0.166
BCL10	1.22	0.190
TLR3	1.80	0.196
TLR2	1.57	0.216

Symbol	Fold Change	P-value
GJA1	0.78	0.217
CFLAR	1.31	0.250
IL10	0.47	0.252
TRIM13	1.22	0.269
TNFAIP3	0.67	0.279
HMOX1	0.80	0.318
TLR1	0.80	0.331
CSF2	0.84	0.335
TNFRSF1A	1.20	0.343
RELB	1.23	0.394
TLR6	1.59	0.402
EDARADD	0.82	0.405
CASP1	1.26	0.405
EGR1	1.22	0.440
TLR4	1.19	0.441
RPL13A	0.96	0.464
ATF1	1.09	0.468
REL	0.84	0.483
HPRT1	0.90	0.518
IKBKG	0.83	0.521
HTR2B	0.84	0.530
TNFSF14	0.67	0.533
TRADD	1.10	0.562
SLC44A2	1.23	0.575
TMED4	1.09	0.60
CHUK	1.13	0.604
MYD88	0.95	0.626
PPM1A	0.91	0.629
RHOA	0.94	0.637
TNFRSF10A	1.09	0.652
RELA	0.92	0.658
B2M	1.03	0.749
NOD1	0.98	0.765
GAPDH	0.94	0.770
LPAR1	1.50	0.774
BCL3	1.16	0.809
CD40	0.87	0.819
FOS	0.95	0.831
CSF3	0.71	0.861
CASP8	1.08	0.863
FASLG	0.97	0.866
NFKB2	0.98	0.896
CFB	0.96	0.905
BIRC2	0.96	0.982
TICAM1	0.99	0.994

Supplemental Table 3. Patient demographics.

Variables	Biopsy samples		Urine samples at day 10	
	Normal (N=15)	Acute tubular necrosis (N=19)	Living donor (N=16)	Deceased donor (N=35)
<i>Recipient characteristics</i>				
Male sex, n (%)	10 (67)	8 (42)	11 (69)	21 (60)
Age at transplantation, mean $\pm$ SD, yr	55.7 $\pm$ 14.7	56.4 $\pm$ 16.4	42.6 $\pm$ 15.1	53.5 $\pm$ 15.4
<i>Donor characteristics</i>				
Donor age, mean $\pm$ SD, yr	56.7 $\pm$ 9.7	58.8 $\pm$ 18.2	46.8 $\pm$ 12.9	57.7 $\pm$ 16.3
Deceased donor, n (%)	11 (73.3)	19 (100)	0 (0)	35 (100)
Living donor, n (%)	4 (26.7)	0 (0)	16 (100)	0 (0)
<i>Transplant variables</i>				
Cold ischemia time, mean $\pm$ SD, hr	22.2 $\pm$ 10.2	18.6 $\pm$ 7.3	1.6 $\pm$ 0.5	23.0 $\pm$ 8.4
Delayed graft function ^a , n (%)	3 (20)	12 (63.2)	0 (0)	14 (40)
Measured glomerular filtration rate at 3 months post-transplantation (mL/min)	54.4 $\pm$ 13.3	32.1 $\pm$ 16.8	67.4 $\pm$ 22.0	53.5 $\pm$ 15.6

^a defined as the need for dialysis during the first week after transplantation