# **Supplementary Tables**

# Table S1. The conserved miRNA precursors that are duplicated or single-copy in humans (excel file).

Table S2. The 574 mature miRNAs and their average expression level (RPM) across the 181 datasets

miRNA	RPM	miRNA	RPM	miRNA	RPM
hsa-miR-21-5p	82106.27	hsa-miR-421	190.72	hsa-miR-766-3p	22.83
hsa-let-7f-5p	66056.48	hsa-miR-452-5p	185.38	hsa-miR-105-5p	22.35
hsa-let-7a-5p	57991.92	hsa-miR-429	177.51	hsa-miR-1225-5p	21.80
hsa-miR-143-3p	52248.75	hsa-miR-331-3p	172.79	hsa-miR-1304-3p	21.69
hsa-miR-486-5p	38969.27	hsa-miR-455-3p	172.68	hsa-miR-548av-3p	21.66
hsa-miR-26a-5p	37256.47	hsa-miR-17-3p	167.00	hsa-miR-513c-5p	21.62
hsa-miR-92a-3p	33787.35	hsa-miR-96-5p	160.07	hsa-miR-378a-5p	21.29
hsa-miR-181a-5p	32284.11	hsa-miR-378d	159.81	hsa-miR-1301-3p	21.28
hsa-miR-22-3p	30377.68	hsa-miR-508-3p	159.10	hsa-miR-409-5p	21.23
hsa-miR-451a	29245.08	hsa-miR-20b-5p	156.90	hsa-miR-655-3p	21.00
hsa-let-7b-5p	21680.38	hsa-miR-656-3p	156.55	hsa-miR-509-3p	20.73
hsa-miR-378c	16756.89	hsa-miR-193a-3p	156.02	hsa-miR-873-3p	20.72
hsa-miR-9-5p	16459.67	hsa-miR-33a-5p	155.92	hsa-miR-592	20.70
hsa-miR-16-5n	15424 42	hsa-miR-7704	150.60	hsa-miR-3609	20.68
hsa-miR-30a-5p	15246.96	hsa-miR-339-5n	149 20	hsa-miR-195-3p	20.39
hsa-let-7a-5n	14301 91	hsa-miR-302h-3n	148.61	hsa-miR-3176	20.00
hsa-miR-378a-3n	14108 16	hsa-miR-137	144.83	hsa-miR-200b-5p	20.04
hsa-miR-101-3n	13627 95	hsa-miR-502-3n	141.83	hsa-miR-1269b	19.86
hsa-miR-103a-3n	13581.60	hsa-miR-671-3p	140.64	hsa-miR-664a-5n	10.00
hsa-miR-101-5p	12167.02	hsa-miR-487b-3n	130 57	hsa-miR-377-5p	10.00
hsa-miR-148a-3n	12107.02	hsa-miR-767-5p	138.7/	hsa-miR-346	10.55
hea miP 375	10757 46	hea miP 360 3n	136.79	hea miP 3065 5p	10.00
hsa-miR-24-3n	080/ 80	hsa-miR-301b-3p	134.41	hsa-miR-145-3p	10.42
$h_{2}$ miP 102 5p	0072 11	hsa miP 100a 5p	132.41	hea miP 576 5p	10.00
haa lat 7a 5p	9273.11	haa miD 995 En	132.74	haa miR 26h 2n	19.00
hoo miD 155 5n	9209.19	haa miB 709 En	130.23	haa miB 22a 2n	10.07
hea lot 7i 5p	8500 47	hsa miP 148a 5n	129.90	hea miP $187a 3n$	10.77
haa miB 20d En	0090.47	hoo miD 124 5p	129.00	haa miP 200 2n	10.33
haa miD 146h En	0224.09	haa miR 220 2n	129.09	haa miD 1469 En	10.21
haa miR 20a Fr	0100.41	haa miB 22h En	120.34	hoo miP 101 5p	10.07
haa miD 100 En	7602 45	haa miR 226	121.40	haa miD 02h En	17.74
hoo miP 1255 50	7002.40	haa miB 125h 1 2n	119.30	hoo miP 154 5p	17.03
haa miR 27h 2n	1312.12 6045.91	haa miB 542 2n	119.27	haa miD 129 1 2n	17.24
haa miD 10h En	0945.01	haa miR 261 2n	117.39	haa miD 202a 2n	17.19
haa miR 100-5p	0910.07 CODE 92	haa miD 276a En	110.15	haa miD 197.2m	17.00
haa miR 190-3p	0900.00	haa miR 214 2n	114.40	haa miD 759 2n	10.97
hsa-miR-124-3p	0310.43	hsa-miR-214-3p	112.00	hsa-miR-750-5p	10.04
nsa-miR-128-3p	6447.18	nsa-miR-5683	109.59	nsa-miR-940	10.01
hsa-miR-120-5p	0310.03	haa miR-270-5p	107.00	hsa-miR-34a-3p	10.00
nsa-mik-320a	6117.64	nsa-miR-148b-5p	105.70	nsa-miR-374b-3p	10.38
nsa-mik-1-3p	5485.72	nsa-miR-495-3p	103.44	nsa-miR-24.1-5p	16.20
nsa-miR-29a-3p	5391.40	nsa-miR-345-5p	103.29	nsa-miR-1247-5p	16.19
nsa-miR-127-3p	5190.86	nsa-miR-374c-5p	102.96	nsa-miR-329-3p	10.00
nsa-miR-122-5p	5165.02	nsa-miR-129.2-3p	102.18	nsa-miR-942-5p	15.95
hsa-miR-182-5p	5096.56	hsa-miR-511-3p	100.03	hsa-miR-891a-5p	15.87
hsa-miR-140-3p	4949.02	hsa-miR-7974	99.51	hsa-miR-1269a	15.72
hsa-miR-100-5p	4845.23	hsa-miR-577	99.21	hsa-miR-376a-3p	15.42
nsa-miR-99b-5p	4/56.92	nsa-miR-133a-3p	91.11	nsa-miR-23b-5p	15.13
nsa-miR-26b-5p	4/32.29	nsa-miR-18b-5p	93.08	nsa-miR-627-5p	15.13
nsa-miR-29b-3p	43/3./9	nsa-miR-324-5p	92.79	nsa-miR-302d-3p	15.04
hsa-let-7e-5p	4336.70	hsa-miR-582-3p	92.61	hsa-miR-431-3p	14.97
hsa-miR-25-3p	4332.90	hsa-let-7i-3p	91.42	hsa-miR-675-3p	14.69
hsa-miR-186-5p	4170.00	hsa-miR-382-5p	91.08	hsa-let-7f.1-3p	14.68
hsa-miR-92b-3p	4092.26	hsa-miR-455-5p	90.52	hsa-miR-128.1-5p	14.64
hsa-miR-151a-3p	4037.93	hsa-let-7a-3p	88.48	hsa-miR-19b.1-5p	14.54

haa-miR-144-5p         3905.17         hsa-miR-3767         97.55         hsa-miR-348ay-5p         14.49           hsa-miR-23a-5p         3566.48         hsa-miR-505-5p         32.4         hsa-miR-328-5p         14.13           hsa-miR-423.5p         3399.33         hsa-miR-455.5p         81.24         hsa-miR-451.5p-3p         13.14           hsa-miR-45.5p         3311.14         hsa-miR-455.5p         81.24         hsa-miR-175.5p         13.44           hsa-miR-45.5p         3311.14         hsa-miR-455.5p         81.24         hsa-miR-175.5p         13.41           hsa-miR-165.5p         3311.14         hsa-miR-165.5p         75.59         hsa-miR-376.5p         13.41           hsa-miR-1222.5p         3027.65         hsa-miR-375.5p         75.71         hsa-miR-3484.5p         13.28           hsa-miR-142.5p         2786.26         hsa-miR-325.5p         74.10         hsa-miR-3484.5p         13.00           hsa-miR-423.5p         2786.54         hsa-miR-325.5p         68.34         hsa-miR-3484.5p         13.00           hsa-miR-423.5p         2786.40         hsa-miR-325.5p         68.34         hsa-miR-3484.5p         13.00           hsa-miR-423.5p         2786.40         hsa-miR-425.5p         68.24         hsa-miR-426.5p         12.81							
has-miR-23a-3p 338.34 has-miR-550a-3p 87.00 has-miR-216.3 14.19 has-miR-150-5p 3668.44 has-miR-206.5p 367.44 has-miR-206.5p 14.19 has-miR-126.3p 14.13 has-miR-126.3p 3199.33 has-miR-126.5p.29 81.21 has-miR-126.3p 13.94 has-miR-126.5p 307.25 has-miR-205.2p 81.21 has-miR-126.5p 13.24 has-miR-126.5p 13.26 has-miR-222.3p 235.61 has-miR-320.5p 74.59 has-miR-226.5p 13.26 has-miR-222.3p 235.61 has-miR-326.5p 74.59 has-miR-226.5p 13.26 has-miR-326.5p 278.26 has-miR-326.5p 74.50 has-miR-226.5p 13.26 has-miR-326.5p 278.26 has-miR-326.5p 13.26 has-miR-326.5p 12.84 has-miR-126.5p 12.84 has-miR-126.5p 12.84 has-miR-126.5p 12.84 has-miR-226.5p 68.5h has-miR-246.5p 12.89 has-miR-246.5p 12.80 has-miR-326.5p 12.84 has-miR-326.5p 12.84 has-miR-246.75 has-miR-246.7		hsa-miR-144-5p	3905.17	hsa-miR-378f	87.55	hsa-miR-548ay-5p	14.49
haa-mR-150-5p 3564.7 has-mR-1268-5p 83.24 has-mR-286-5p 14.19 has-mR-125a-5p 14.19 has-mR-127a-5p 13.84 has-mR-428-5p 31.11 has-mR-127a-5p 13.84 has-mR-428-5p 31.11 has-mR-127a-5p 13.84 has-mR-127a-5p 30.00 has-mR-27a-5p 77a has-mR-127a-5p 13.84 has-mR-142-5p 30.00 has-mR-27a-5p 77a has-mR-27a-5p 77a has-mR-27a-5p 77a has-mR-28a-5p 13.84 has-mR-142-5p 2028.21 has-mR-27a-5p 77a has-mR-28a-5p 13.26 has-mR-242-5p 2028.21 has-mR-23a-5p 74.26 has-mR-242-5p 13.26 has-mR-242-5p 278.26 has-mR-242-5p 13.26 has		hsa-miR-23a-3p	3833.48	hsa-miR-550a-3p	87.00	hsa-miR-2110	14.47
has-miR-23-5p 344.75 hss-miR-108-5p 82.71 hss-miR-128-3p 13.94 hss-miR-128-3p 13.94 hss-miR-128-3p 13.94 hss-miR-128-3p 13.94 hss-miR-128-3p 13.94 hss-miR-128-3p 13.46 hss-miR-228-3p 13.26 hss-miR-239-5p 74.06 hss-miR-248-3p 13.26 hss-miR-248-3p 2765.64 hss-miR-235-5p 68.94 hss-miR-248-3p 13.26 hss-miR-248-3p 12.83 hss-miR-128-3p 74.06 hss-miR-248-3p 12.83 hss-miR-128-3p 2765.44 hss-miR-235-5p 68.94 hss-miR-248-3p 12.83 hss-miR-248-3p 12.83 hss-miR-248-3p 12.83 hss-miR-248-3p 12.83 hss-miR-248-3p 12.83 hss-miR-248-3p 12.83 hss-miR-248-3p 12.81 hss-miR-248-3p 12.85 hss-miR-208-3p 12.85 hss-m		hsa-miR-150-5p	3566.48	hsa-miR-509-5p	83.24	hsa-miR-296-5p	14.19
haa-miR-816-3-p 339.3.3 hsa-miR-125b.2-3p 81.24 hsa-miR-1816-3p 1.3.54 hsa-miR-1816-3p 3311.14 hsa-miR-186-5p 71.26 hsa-miR-1916-3p 13.54 hsa-miR-126-3p 72.26 hsa-miR-1916-3p 13.41 hsa-miR-126-3p 77.26 hsa-miR-276-3p 13.41 hsa-miR-126-3p 77.67 hsa-miR-276-3p 13.26 hsa-miR-276-3p 13.26 hsa-miR-276-3p 200.55 hsa-miR-276-3p 13.26 hsa-miR-276-3p 13.26 hsa-miR-272-3p 76.7 hsa-miR-266-3p 13.26 hsa-miR-272-3p 76.7 hsa-miR-266-3p 13.26 hsa-miR-272-3p 77.67 hsa-miR-266-3p 13.26 hsa-miR-262-3p 276.56 hsa-miR-232-3p 276.56 hsa-miR-232-3p 276.56 hsa-miR-232-3p 276.56 hsa-miR-232-3p 276.56 hsa-miR-232-3p 276.56 hsa-miR-232-3p 12.83 hsa-miR-206-3p 2400.29 hsa-miR-654-3p 68.72 hsa-miR-206-3p 12.83 hsa-miR-206-5p 2400.29 hsa-miR-654-3p 68.72 hsa-miR-206-3p 12.81 hsa-miR-206-5p 2400.29 hsa-miR-654-3p 68.72 hsa-miR-206-3p 12.86 hsa-miR-206-3p 12.81 hsa-miR-206-3p 12.81 hsa-miR-206-3p 12.83 hsa-miR-206-3p 12.84 hsa-miR-206-3p 12.85 hsa-miR-206-3p 12.86 hsa-mi		hsa-miR-423-5p	3544.75	hsa-miR-106a-5p	82.71	hsa-miR-125a-3p	14.13
has-miR-27a-3p 3311.14 has-miR-485-5p 81.19 has-miR-127.5p 13.46 has-miR-1816-5p 3327.83 has-miR-127a-5p 77.29 has-miR-376.5p 13.41 has-miR-27a-5p 77.72 has-miR-376.5p 13.41 has-miR-27a-5p 75.95 has-miR-376.5p 13.24 has-miR-242.5p 13.22 has-miR-164.5p 3027.22 has-miR-106.5p 13.22 has-miR-164.5p 2017.85 has-miR-220.5p 75.95 has-miR-246.5p 13.28 has-miR-164.5p 2017.85 has-miR-242.5p 75.95 has-miR-164.5p 13.24 has-miR-242.5p 74.25 has-miR-164.5p 13.24 has-miR-242.5p 74.25 has-miR-164.5p 13.24 has-miR-245.5p 63.25 has-miR-246.5p 13.24 has-miR-245.5p 63.25 has-miR-246.5p 13.24 has-miR-245.5p 63.25 has-miR-246.5p 13.24 has-miR-246.5p 13.24 has-miR-246.5p 13.24 has-miR-246.5p 13.24 has-miR-246.5p 13.25 has-miR-246.5p 13.26 has-miR-246.5p 13.		hsa-miR-9-3p	3399.33	hsa-miR-125b.2-3p	81.24	hsa-miR-181b-3p	13.94
hss-mirk 128-30         23041.7         hss-mirk 130-5-p         80.35         hss-mirk 376-3p         13.41           hss-mirk 128-30         3007.65         hss-mirk 316-5p         77.726         hss-mirk 376-3p         13.38           hss-mirk 222-3p         2893.61         hss-mirk 7169-3p         74.58         hss-mirk 242-5p         13.26           hss-mirk 222-3p         2893.61         hss-mirk 320-5p         74.56         hss-mirk 242-5p         13.26           hss-mirk 202-3p         2765.64         hss-mirk 324-5p         74.05         hss-mirk 242-3p         12.89           hss-mirk 142-3p         2656.64         hss-mirk 324-3p         63.57         hss-mirk 202-3p         12.83           hss-mirk 142-3p         2400.29         hss-mirk 225-5p         66.94         hss-mirk 202-3p         12.81           hss-mirk 20e-5p         2296.82         hss-mirk 220-5p         12.86         hss-mirk 220-5p         12.86           hss-mirk 20e-5p         213.61         hss-mirk 220-5p         63.94         hss-mirk 220-3p         12.66           hss-mirk 20e-3p         2149.65         hss-mirk 232-5p         12.06         hss-mirk 232-5p         12.01           hss-mirk 20e-3p         12.41         hss-mirk 232-5p         12.41         hss-mirk 232-5p <td></td> <td>hsa-miR-27a-3p</td> <td>3311.14</td> <td>hsa-miR-485-5p</td> <td>81.19</td> <td>hsa-miR-1271-5p</td> <td>13.54</td>		hsa-miR-27a-3p	3311.14	hsa-miR-485-5p	81.19	hsa-miR-1271-5p	13.54
hsammer.15         hsammer.210-by         J.2.4         hsammer.210-by         J.3.4           hsammer.151a.20         J.2.5         hsammer.222-by         J.3.28           hsammer.1222-30         J.2.8         hsammer.222-30         J.2.8           hsammer.1222-30         J.2.8         hsammer.222-30         J.2.8           hsammer.1222-30         J.2.8         hsammer.200-30         J.2.8           hsammer.1222-30         J.2.8         hsammer.200-30         J.2.8           hsammer.122-30         Z654.04         hsammer.324-30         K.3.4         hsammer.200-30         J.2.81           hsammer.140a-30         Z654.04         hsammer.242-50         66.94         hsammer.240-30         J.2.81           hsammer.140a-30         Z264.04         hsammer.242-50         66.97         hsammer.200-30         J.2.86           hsammer.140a-30         Z440.66         hsammer.230-30         L2.68         hsammer.210-50         J.2.68           hsammer.240-30         Z440.66         hsammer.240-30         Hsammer.212-51         J.2.47           hsammer.240-30         Z440.66         hsammer.240-30         Hsammer.212-30         hsammer.212-30         hsammer.212-30         J.2.47           hsammer.240-30         1997.57         hsammer.242-30<		hsa-miR-181b-5p	3237.83	hsa-miR-130b-5p	80.35	hsa-miR-196b-3p	13.46
Bashmir - 19 abg         JU/ 165         Insammir 2/43-5p         12.48           hsamir 72-5p         2035.61         hsammir 200-3p         74.59         hsammir 32.25           hsamir 142-2p         2798.26         hsammir 330-5p         274.85         hsammir 33.25           hsamir 33-5p         2786.34         hsammir 342.5p         74.05         hsammir 34.25-5p         13.00           hsammir 342.3p         264.06         hsammir 342.5p         66.07         hsammir 34.5p         12.89           hsammir 342.3p         264.06         hsammir 32.25         68.94         hsammir 34.5p         12.81           hsammir 342.5p         2400.29         hsammir 32.5p         68.97         hsammir 34.5p         12.81           hsammir 32.5p         2404.29         hsammir 32.5p         64.79         hsammir 32.6p         12.68           hsammir 32.5p         2004.24         hsammir 32.5p         63.34         hsammir 32.6p         12.64           hsamir 105.5p         1935.49         hsammir 32.5p         60.07         hsammir 34.5p         12.34           hsammir 34.5p         1935.49         hsammir 33.5p         12.34         hsammir 32.5p         12.34           hsammir 34.5p         1935.49         hsammir 33.5p         10.01		hsa-miR-126-3p	3091.17	hsa-miR-136-5p	77.26	hsa-miR-376b-3p	13.41
hss-miR-222-3p         3202-21         hss-miR-1000-3p         13.26           hss-miR-222-3p         2283.61         hss-miR-3200         74.26         hss-miR-222-3p         13.26           hss-miR-412-3p         2786.34         hss-miR-313-3p         74.05         hss-miR-834-5p         13.24           hss-miR-423-3p         2765.64         hss-miR-324-3p         65.15         hss-miR-836-5p         12.89           hss-miR-423-3p         2265.10         hss-miR-224-5p         65.94         hss-miR-220-3p         12.89           hss-miR-200-5p         2440.02         hss-miR-236-5p         66.29         hss-miR-210-5p         12.86           hss-miR-200-5p         2440.65         hss-miR-200-5p         66.40         hss-miR-210-5p         12.86           hss-miR-200-5p         2042.44         hss-miR-200-5p         64.05         hss-miR-240-5p         12.80           hss-miR-200-5p         2042.44         hss-miR-1246         61.65         hss-miR-1248-5p         12.30           hss-miR-200-5p         2042.44         hss-miR-1240-610         hss-miR-242-3p         12.30           hss-miR-200-5p         1972.57         hss-miR-1246         61.65         hss-miR-242-3p         12.30           hss-miR-330-5p         1977.51		nsa-miR-151a-5p	3077.65	nsa-miR-2/a-5p	76.71	nsa-miR-98-3p	13.38
hsamm         Pasamir 2420			3020.21	hsa-miR-1060-5p	75.09	hsa-miR-5460-5p	13.20
Insemin: 42-5p         2/18.20         Insemin: 83-5p         74.26         Insemin: 828-5p         13.24           Insemin: 423-5p         2765.64         Insemin: 422-5p         74.05         Insemin: 828-5p         12.83           Insemin: 428-5p         286.404         Insemin: 828-5p         66.91         Insemin: 828-5p         12.83           Insemin: 468-5p         2206.62         Insemin: 825-5p         66.57         Insemin: 428-5p         12.83           Insemin: 468-5p         2206.62         Insemin: 825-5p         66.57         Insemin: 720-3p         12.66           Insemin: 205-5p         2206.62         Insemin: 820-5p         64.05         Insemin: 720-3p         12.66           Insemin: 205-5p         2044.41         Insemin: 820-5p         64.05         Insemin: 146.3p         12.47           Insemin: 75p         2113.61         Insemin: 820-5p         60.34         Insemin: 146.3p         12.47           Insemin: 75p         2113.61         Insemin: 820-5p         60.72         Insemin: 759-5p         12.44           Insemin: 75p         2124         Insemin: 820-5p         12.44         Insemin: 820-5p         12.34           Insemin: 7205-5p         1907.4         Insemin: 820-5p         12.00         Insemin: 820-5p		nsa-miR-222-3p	2835.61	nsa-miR-320b	74.59	nsa-miR-222-5p	13.26
Issemmer-423-3p         276.54         Issemmer-432-3p         74.00         Issemmer-436-3p         13.00           Issemmer-423-3p         283.404         Issemmer-432-3p         68.12         Issemmer-446-3p         12.88           Issemmer-423-3p         284.406         Issemmer-25-5p         68.12         Issemmer-2467-3p         12.88           Issemmer-463-5p         2440.50         Issemmer-25-5p         66.29         Issemmer-2005-7p         12.81           Issemmer-463-5p         220.62         Issemmer-25-5p         12.84         Issemmer-2005-7p         12.86           Issemmer-475-7p         2113.61         Issemmer-2005-7p         12.86         Issemmer-1298-3p         12.66           Issemmer-35-5p         2042.44         Issemmer-2005-7p         12.84         Issemmer-550.7p         12.84           Issemmer-1305-5p         1972.57         Issemmer-1345-6p         61.55         Issemmer-550.3p         12.29           Issemmer-1605-5p         1972.57         Issemmer-1345-5p         60.72         Issemmer-3460-3p         12.29           Issemmer-1605-5p         1972.65         Issemmer-1350.5p         Issemmer-21-3p         15.15         Issemmer-330-5p         12.04           Issemmer-20-5p         1972.55         Issemmer-1350.5p         Iss		nsa-miR-142-5p	2798.20	nsa-miR-590-5p	74.20	nsa-miR-15a-3p	13.24
Ibschmittrat_32-30         2103.04         Ibschmittrat_32-30         74.06         82.01<		haa miP 422 2n	2765.64	hsa-miR-31-3p	74.05	hsa-miR 549a 2n	13.00
IssamiR-269         2844106         IssamiR-265-30         68.72         IssamiR-267-50         12.82           InsamiR-208-50         22001 50         IssamiR-654-30         66.77         IssamiR-208-50         12.81           InsamiR-208-50         2206 52         IssamiR-230-50         64.79         IssamiR-208-50         12.68           InsamiR-208-50         24149 65         IssamiR-220-50         64.79         IssamiR-208-50         12.66           InsamiR-17-50         2113 61         IssamiR-220-50         64.75         IssamiR-1298-30         12.65           InsamiR-306-50         2004.14         IssamiR-246-30         61.65         IssamiR-550a.3-50         12.47           InsamiR-1066-50         1972.57         IssamiR-1350         61.66         IssamiR-548-30         12.29           InsamiR-1066-50         1972.57         IssamiR-1350         60.72         IssamiR-548-30         12.29           InsamiR-108-30         173.30         IssamiR-21-50         670.74         IssamiR-243-30         10.99           InsamiR-128-30         10.59         IssamiR-301.5         57.76         IssamiR-462-30         11.15           IssamiR-130a-30         1619.24         IssamiR-301.5         57.76         IssamiR-47-30         10.64		hsa-miR-423-3p	2705.04	hsa-miR-432-3p	74.00 60.15	hsa-miR-346e-3p	12.09
hsa-miR-30a-5p         2400.29         hsa-miR-543         68.72         hsa-miR-20a-5p         12.81           hsa-miR-20a-5p         2296.82         hsa-miR-20a-5p         12.68           hsa-miR-20a-5p         214.82         hsa-miR-20a-5p         12.68           hsa-miR-20a-5p         214.84         hsa-miR-32a-5p         64.79         hsa-miR-20a-5p         12.68           hsa-miR-20a-5p         204.44         hsa-miR-404-5p         63.34         hsa-miR-12a-5p         12.65           hsa-miR-30a-5p         2004.13         nsa-miR-404-5p         63.34         hsa-miR-405-3p         12.30           hsa-miR-30a-5p         1935.49         hsa-miR-12a-5p         60.07         hsa-miR-405-3p         12.30           hsa-miR-40a-5p         1893.49         hsa-miR-13a-5p         58.77         hsa-miR-436-3p         12.00           hsa-miR-30a-5p         175.59         hsa-miR-307.5p         57.76         hsa-miR-437.3p         11.15           hsa-miR-415-5p         157.44         hsa-miR-306.59         57.76         hsa-miR-437.5p         10.66           hsa-miR-416-5p         157.44         hsa-miR-306.55         57.76         hsa-miR-416.75.5p         10.57           hsa-miR-416-5p         157.44         hsa-miR-416.5p         55.55		hsa-miR-30c-5p	2644.06	hsa-miR-25-5n	68.94	hsa-miR-2467-5n	12.03
hsa-miR-148a-5p         2201.50         hsa-miR-205.5p         tea-miR-206.5p         tea-miR-206.5p         tea-miR-206.5p           hsa-miR-205.5p         2149.65         hsa-miR-205.6p         64.05         hsa-miR-210.5p         12.66           hsa-miR-305.5p         2042.44         hsa-miR-206.5p         64.05         hsa-miR-140.5p         12.85           hsa-miR-75.5p         1972.57         hsa-miR-671.5p         61.55         hsa-miR-763.5p         12.34           hsa-miR-76.5p         1972.57         hsa-miR-671.5p         61.75         hsa-miR-763.5p         12.29           hsa-miR-76.5p         1972.57         hsa-miR-671.5p         61.75         hsa-miR-763.5p         12.20           hsa-miR-76.5p         1972.57         hsa-miR-71.5p         60.07         hsa-miR-743.5p         12.14           hsa-miR-200.5p         1753.30         hsa-miR-71.5p         68.37         hsa-miR-743.5p         12.14           hsa-miR-145.5p         1673.74         hsa-miR-71.5p         58.77         hsa-miR-475.3p         11.15           hsa-miR-161.5p         154.24         hsa-miR-730.5p         57.60         hsa-miR-742.5p         10.66           hsa-miR-146.5p         154.24         hsa-miR-140.5p         10.62         hsa-miR-730.5p         10.62 <td></td> <td>hsa-miR-99a-5p</td> <td>2400 29</td> <td>hsa-miR-654-3n</td> <td>68 72</td> <td>hsa-let-7e-3p</td> <td>12.82</td>		hsa-miR-99a-5p	2400 29	hsa-miR-654-3n	68 72	hsa-let-7e-3p	12.82
hsa-miR-200-5p         2296.62         hsa-miR-200-5p         12.68           hsa-miR-17-5p         2113.61         hsa-miR-200-5p         64.05         hsa-miR-1208-3p         12.65           hsa-miR-30b-5p         2004.13         hsa-miR-1428         61.65         hsa-miR-1208-3p         12.65           hsa-miR-75p         2113.61         hsa-miR-1428         61.65         hsa-miR-263-5p         12.34           hsa-miR-75p         2004.13         hsa-miR-310-5p         60.72         hsa-miR-283-5p         12.31           hsa-miR-1628-5p         1867.49         hsa-miR-310-5p         60.07         hsa-miR-283-5p         12.01           hsa-miR-283-5p         1867.49         hsa-miR-2123.59         59.30         hsa-miR-346-3p         12.14           hsa-miR-182-5p         1753.30         hsa-miR-315         58.37         hsa-miR-346-3p         11.15           hsa-miR-145-5p         1757.4         hsa-miR-342-5p         10.66         hsa-miR-342-5p         10.66           hsa-miR-142-5p         1564         hsa-miR-340-5p         55.57         hsa-miR-346-5p         10.66           hsa-miR-340-5p         1465.48         hsa-miR-340-5p         55.27         hsa-miR-346-5p         10.62           hsa-miR-340-5p         1461.48		hsa-miR-146a-5p	2301.50	hsa-miR-543	66.57	hsa-miR-200a-5p	12.68
hsa-miR-20:-3p         2149.65         hsa-miR-20:-5p         64.05         hsa-miR-210:5p         12.66           hsa-miR-30:5p         2042.44         hsa-miR-20:5p         63.34         hsa-miR-154.3p         12.47           hsa-miR-30:5p         2044.13         hsa-miR-164         61.65         hsa-miR-164.03         52.34           hsa-miR-106.5p         1935.47         hsa-miR-30:5p         60.72         hsa-miR-428.3p         12.34           hsa-miR-206.5p         1935.49         hsa-miR-30:5p         60.07         hsa-miR-428.3p         12.14           hsa-miR-206.3p         1753.30         hsa-miR-217.3p         58.07         hsa-miR-467.3p         11.15           hsa-miR-164.5p         177.53         hsa-miR-30.5p         57.37         hsa-miR-472.2p         11.15           hsa-miR-163.5p         176.4         hsa-miR-30.5p         57.60         hsa-miR-472.2p         10.75           hsa-miR-163.5p         1519.24         hsa-miR-30.5p         10.60         hsa-miR-30.2p         10.62           hsa-miR-31.5p         1519.24         hsa-miR-31.5p         10.62         hsa-miR-31.5p         10.62           hsa-miR-31.5p         10.61         hsa-miR-31.5p         10.62         hsa-miR-4142.5p         10.62 <t< td=""><td></td><td>hsa-miR-20a-5p</td><td>2296.82</td><td>hsa-miR-22-5p</td><td>66.29</td><td>hsa-miR-208b-3p</td><td>12.68</td></t<>		hsa-miR-20a-5p	2296.82	hsa-miR-22-5p	66.29	hsa-miR-208b-3p	12.68
hsa-miR-17-5p         2113.61         hsa-miR-282-5p         64.05         hsa-miR-1248-3p         12.47           hsa-miR-30b-5p         2004.13         hsa-miR-1248         61.65         hsa-miR-628-3p         12.34           hsa-miR-75-5p         197.57         hsa-miR-715p         61.56         hsa-miR-628-3p         12.30           hsa-miR-105b-5p         1935.49         hsa-miR-139a-5p         60.07         hsa-miR-539.5p         12.24           hsa-miR-28.3p         1861.81         hsa-miR-139a-5p         60.07         hsa-miR-103a.25p         12.10           hsa-miR-1020-3p         1753.56         hsa-miR-71a-5p         56.37         hsa-miR-103a.25p         11.15           hsa-miR-145-5p         1679.74         hsa-miR-311-5p         15.63         hsa-miR-732.3p         10.99           hsa-miR-130a-3p         15124         hsa-miR-301-5p         57.60         hsa-miR-732.5p         10.66           hsa-miR-130a-3p         15124         hsa-miR-302-5p         55.57         hsa-miR-295-5p         10.64           hsa-miR-1481-3p         1337.97         hsa-miR-443-5p         10.57         hsa-miR-1432-5p         10.61           hsa-miR-1448-3p         1337.97         hsa-miR-246-5p         55.27         hsa-miR-4454         10.42 <td></td> <td>hsa-miR-29c-3p</td> <td>2149.65</td> <td>hsa-miR-320c</td> <td>64.79</td> <td>hsa-miR-210-5p</td> <td>12.66</td>		hsa-miR-29c-3p	2149.65	hsa-miR-320c	64.79	hsa-miR-210-5p	12.66
hsa-miR-30b-50         2042.44         hsa-miR-1494-30         63.34         hsa-miR-164-30         12.47           hsa-miR-30b-50         207.413         hsa-miR-1065.50         30.72         hsa-miR-208-30         12.30           hsa-miR-1065.50         1935.49         hsa-miR-305.50         60.72         hsa-miR-288-30         12.30           hsa-miR-286.50         1897.49         hsa-miR-133a-50         60.07         hsa-miR-539-50         12.10           hsa-miR-200-30         1735.30         hsa-miR-750         56.77         hsa-miR-436-30         11.15           hsa-miR-19a-30         1735.56         hsa-miR-307.50         57.76         hsa-miR-436-39         10.66           hsa-miR-161-50         152.46         hsa-miR-300.50         57.60         hsa-miR-148-33         10.66           hsa-miR-130a-30         1519.24         hsa-miR-300.55         55.51         hsa-miR-299-50         10.61           hsa-miR-34c-50         147.11         hsa-miR-365.50         55.51         hsa-miR-299-50         10.62           hsa-miR-34c-50         120.71         hsa-miR-365.30         55.51         hsa-miR-299-50         10.62           hsa-miR-34c-50         137.97         hsa-miR-365.30         55.51         hsa-miR-156.50         10.57		hsa-miR-17-5p	2113.61	hsa-miR-29c-5p	64.05	hsa-miR-1298-3p	12.65
hsa-miR-30b-5p         2004.13         hsa-miR-1248         61.65         hsa-miR-550a.3-5p         12.30           hsa-miR-108b-5p         1935.49         hsa-miR-30a.5p         60.72         hsa-miR-548a-3p         12.30           hsa-miR-28-3p         1881.81         hsa-miR-330-5p         60.77         hsa-miR-348-3p         12.14           hsa-miR-28-3p         1881.81         hsa-miR-312-3p         59.30         hsa-miR-103a.2-5p         12.10           hsa-miR-19a-3p         1735.30         hsa-miR-317-5p         58.77         hsa-miR-34c-3p         11.15           hsa-miR-1145-5p         1679.74         hsa-miR-3165         57.84         hsa-miR-132a-3p         10.99           hsa-miR-315         1679.74         hsa-miR-301-5p         57.76         hsa-miR-313-5p         10.66           hsa-miR-130a-3p         1519.24         hsa-miR-3205         55.77         hsa-miR-340-3p         10.61           hsa-miR-144b-3p         1341.62         hsa-miR-433-5p         55.27         hsa-miR-4454         10.44           hsa-miR-144b         1337.97         hsa-miR-483-3p         54.69         hsa-miR-4454         10.44           hsa-miR-144b         1337.97         hsa-miR-443-3p         53.96         hsa-miR-443-40-5p         10.24		hsa-miR-23b-3p	2042.44	hsa-miR-494-3p	63.34	hsa-miR-154-3p	12.47
hsa-miR-76p         1972.57         hsa-miR-305.50         60.72         hsa-miR-2848-50         12.30           hsa-miR-384-50         1897.49         hsa-miR-193a-50         60.07         hsa-miR-3848-50         12.14           hsa-miR-282.50         1881.11         hsa-miR-193a-50         60.07         hsa-miR-346-30         12.10           hsa-miR-182.50         1755.30         hsa-miR-3715.50         58.77         hsa-miR-346-30         11.15           hsa-miR-145.50         1679.74         hsa-miR-3100-50         57.76         hsa-miR-145.30         10.99           hsa-miR-161.50         1524.96         hsa-miR-300.53         57.76         hsa-miR-10a-30         10.66           hsa-miR-130a-30         1519.24         hsa-miR-3203         55.95         hsa-miR-290.150         10.62           hsa-miR-3146.50         1474.11         hsa-miR-3815.55         15.51         hsa-miR-290.150         10.62           hsa-miR-144.30         1341.62         hsa-miR-3831.55         55.51         hsa-miR-290.150         10.62           hsa-miR-144.30         1341.62         hsa-miR-395.35         54.69         hsa-miR-4454         10.42           hsa-miR-144.30         1337.97         hsa-miR-287.50         53.96         hsa-miR-145.50         10.24		hsa-miR-30b-5p	2004.13	hsa-miR-1248	61.65	hsa-miR-550a.3-5p	12.34
hsa-miR-106b-5p         1935.49         hsa-miR-330.5p         60.72         hsa-miR-548.0-3p         12.24           hsa-miR-20-3p         1783.10         hsa-miR-212.3p         59.30         hsa-miR-103.2-5p         12.14           hsa-miR-20-3p         1735.56         hsa-miR-212.3p         59.30         hsa-miR-103.2-5p         11.15           hsa-miR-119a-3p         1735.56         hsa-miR-317.5p         57.84         hsa-miR-346.3p         11.99           hsa-miR-121.3p         1594.85         hsa-miR-3607.5p         57.76         hsa-miR-146.3p         10.99           hsa-miR-131.5p         1666         hsa-miR-340.5p         1465.48         hsa-miR-3204         55.55         hsa-miR-10a.3p         10.62           hsa-miR-144.5p         1341.62         hsa-miR-343.5p         55.51         hsa-miR-295.5p         10.61           hsa-miR-144.3p         133.797         hsa-miR-483.5p         55.51         hsa-miR-445.4         10.47           hsa-miR-144.5p         1182.04         hsa-miR-483.3p         54.17         hsa-miR-415.5p         10.24           hsa-miR-125.5p         1102.04         hsa-miR-483.3p         53.38         hsa-miR-149.73         10.04           hsa-miR-124.5p         1102.44         hsa-miR-33.5p         51.25		hsa-miR-7-5p	1972.57	hsa-miR-671-5p	61.58	hsa-miR-628-3p	12.30
hsa-miR-28-5p         1897.49         hsa-miR-193a-5p         60.07         hsa-miR-183-5p         12.14           hsa-miR-200c-3p         1753.30         hsa-miR-212-3p         59.00         hsa-miR-103a-2-5p         12.00           hsa-miR-200c-3p         1753.56         hsa-miR-877-5p         58.77         hsa-miR-4677-3p         11.15           hsa-miR-161-5p         1524.96         hsa-miR-300-5p         57.60         hsa-miR-4722-3p         10.99           hsa-miR-1130a-3p         1519.24         hsa-miR-300-5p         57.60         hsa-miR-10a-3p         10.66           hsa-miR-1315p         1474.11         hsa-miR-320.5p         55.51         hsa-miR-193-3p         10.64           hsa-miR-144-5p         1465.48         hsa-miR-36.5p         10.57         hsa-miR-146.73         10.64           hsa-miR-144-3p         1337.97         hsa-miR-36.5p         55.51         hsa-miR-1929.5p         10.61           hsa-miR-144-3p         1337.97         hsa-miR-485.5p         54.69         hsa-miR-145.4         10.44           hsa-miR-144-3p         1337.97         hsa-miR-465.3p         54.17         hsa-miR-464.4         10.44           hsa-miR-144-3p         137.60         hsa-miR-466-5p         52.80         hsa-miR-149.5p         10.24		hsa-miR-106b-5p	1935.49	hsa-miR-330-5p	60.72	hsa-miR-548o-3p	12.29
hsa-miR-200-3p         1881.81         hsa-miR-212-3p         59.30         hsa-miR-103.2-5p         12.00           hsa-miR-200-3p         1735.56         hsa-miR-371a-5p         58.37         hsa-miR-467-3p         11.15           hsa-miR-145.5p         1679.74         hsa-miR-315         57.84         hsa-miR-482-3p         10.99           hsa-miR-131c-5p         1524.96         hsa-miR-3007.5p         57.76         hsa-miR-133-3p         10.75           hsa-miR-131c-5p         159.485         hsa-miR-3007.5p         57.76         hsa-miR-10a-3p         10.66           hsa-miR-31-5p         1465.48         hsa-miR-3201         55.95         hsa-miR-1129.7p         10.62           hsa-miR-1443p         1337.97         hsa-miR-433-5p         55.51         hsa-miR-4454         10.47           hsa-miR-1443p         1337.97         hsa-miR-436-3p         54.17         hsa-miR-4455-5p         10.24           hsa-miR-15a-5p         1120.90         hsa-miR-483-3p         53.36         hsa-miR-443-5p         10.24           hsa-miR-315a-5p         1132.04         hsa-miR-493-3p         53.38         hsa-miR-443-5p         10.24           hsa-miR-124-5p         1132.04         hsa-miR-493-3p         53.38         hsa-miR-443-5p         10.24 <td></td> <td>hsa-miR-98-5p</td> <td>1897.49</td> <td>hsa-miR-193a-5p</td> <td>60.07</td> <td>hsa-miR-539-5p</td> <td>12.14</td>		hsa-miR-98-5p	1897.49	hsa-miR-193a-5p	60.07	hsa-miR-539-5p	12.14
hsa-miR-200c-3p         1753.30         hsa-miR-377-5p         58.77         hsa-miR-467-3p         11.15           hsa-miR-148-3p         1735.56         hsa-miR-371a-5p         58.37         hsa-miR-462-3p         10.99           hsa-miR-130-3p         1594.85         hsa-miR-3015         57.76         hsa-miR-4732-3p         10.75           hsa-miR-130a-3p         1519.24         hsa-miR-3023         57.60         hsa-miR-10a-3p         10.66           hsa-miR-130a-3p         1519.24         hsa-miR-3155.55         hsa-miR-201.15p         10.62           hsa-miR-140b-3p         1474.11         hsa-miR-1403.5p         15.57         hsa-miR-201.15p         10.62           hsa-miR-140b-3p         141.62         hsa-miR-1433.5p         10.61         hsa-miR-201.15p         10.62           hsa-miR-144-3p         1337.97         hsa-miR-488.3p         54.17         hsa-miR-117         10.47           hsa-miR-204-5p         1199.71         hsa-miR-807.3p         53.86         hsa-miR-110-10         10.47           hsa-miR-1246         1137.60         hsa-miR-161.3p         10.99         hsa-miR-1973         10.09           hsa-miR-1245         102.41         hsa-miR-161.5p         52.62         hsa-miR-1492.5p         10.02           h		hsa-miR-28-3p	1881.81	hsa-miR-212-3p	59.30	hsa-miR-103a.2-5p	12.00
hsa-miR-19a-3p         1735.56         hsa-miR-371a-5p         58.37         hsa-miR-18a-3p         10.99           hsa-miR-21-3p         1594.85         hsa-miR-3015         57.764         hsa-miR-18a-3p         10.99           hsa-miR-181-5p         1524.96         hsa-miR-300-3p         57.760         hsa-miR-315-5p         10.66           hsa-miR-31-5p         1474.11         hsa-miR-320d         55.95         hsa-miR-320b, 1-5p         10.62           hsa-miR-144b-3p         1341.62         hsa-miR-1423-5p         10.64         hsa-miR-144-3p         133.797           hsa-miR-144b-3p         1341.62         hsa-miR-433-5p         55.51         hsa-miR-4454         10.48           hsa-miR-144b-3p         133.797         hsa-miR-867-3p         54.69         hsa-miR-4454         10.47           hsa-miR-144b-3p         131.797         hsa-miR-488-3p         54.17         hsa-miR-483.5p         10.24           hsa-miR-1245-5p         1182.04         hsa-miR-1488-3p         10.24         hsa-miR-1484.3p         10.12           hsa-miR-1226-5p         103.459         hsa-miR-216b-5p         53.25         hsa-miR-161-3p         9.89           hsa-miR-1226-5p         103.459         hsa-miR-216b-5p         52.82         hsa-miR-129         10.02		hsa-miR-200c-3p	1753.30	hsa-miR-877-5p	58.77	hsa-miR-34c-3p	11.15
hsa-miR-14b-5p         16/9.4         hsa-miR-3015         5/.84         hsa-miR-4722.3p         10.99           hsa-miR-131c-5p         1524.96         hsa-miR-3007.5p         57.76         hsa-miR-102.3p         10.75           hsa-miR-130a-3p         1519.24         hsa-miR-3200         55.95         hsa-miR-10a-3p         10.66           hsa-miR-315-p         1474.11         hsa-miR-3200         55.97         hsa-miR-29b.1-5p         10.62           hsa-miR-144-5p         1445.48         hsa-miR-315-5p         10.57         hsa-miR-4454         10.47           hsa-miR-144-3p         1337.97         hsa-miR-488-3p         54.69         hsa-miR-1455-5p         10.74           hsa-miR-144-3p         1199.71         hsa-miR-488-3p         53.86         hsa-miR-197         10.47           hsa-miR-120-5p         1192.04         hsa-miR-205         53.25         hsa-miR-197.31         10.09           hsa-miR-124-6         1137.60         hsa-miR-161-5p         52.82         hsa-miR-142-5p         10.02           hsa-miR-129-5p         1102.44         hsa-miR-161-5p         52.82         hsa-miR-142-3p         10.09           hsa-miR-125-5p         102.10         hsa-miR-333-5p         51.73         hsa-miR-161-3p         9.89		hsa-miR-19a-3p	1735.56	hsa-miR-371a-5p	58.37	hsa-miR-4677-3p	11.15
InsamiR-161-5p         1524.96         InsamiR-850-3p         57.60         InsamiR-47.32-3p         10.75           hsa-miR-130a-3p         1519.24         hsa-miR-3201         55.95         hsa-miR-10a-3p         10.66           hsa-miR-13-5p         1474.11         hsa-miR-1323         55.77         hsa-miR-10a-3p         10.62           hsa-miR-1443-5p         1341.62         hsa-miR-361.5p         55.51         hsa-miR-1455.5p         10.57           hsa-miR-1443-3p         1331.97         hsa-miR-96-3p         55.27         hsa-miR-1455.5p         10.57           hsa-miR-1443-3p         1331.97         hsa-miR-96-3p         53.96         hsa-miR-845.4p         10.47           hsa-miR-1443-3p         131.62         hsa-miR-848-3p         54.17         hsa-miR-1197         10.47           hsa-miR-1246         1137.60         hsa-miR-867-3p         53.96         hsa-miR-1197         10.24           hsa-miR-129-5p         1102.44         hsa-miR-664a-3p         52.89         hsa-miR-129         10.03           hsa-miR-129-5p         1102.44         hsa-miR-664a-3p         52.43         hsa-miR-129         10.02           hsa-miR-129-5p         102.10         hsa-miR-302.2-3p         51.73         hsa-miR-129         10.02      >		hsa-miR-145-5p	1679.74	hsa-miR-3615	57.84	hsa-miR-18a-3p	10.99
Insaminer         1524.90         Insaminer.30.20         57.00         Insaminer.31-50         10.06           hsaminer.16.02.30         1519.24         hsaminer.320         55.95         hsaminer.31-50         10.64           hsaminer.31-50         1474.11         hsaminer.320         55.77         hsaminer.290.1-50         10.62           hsaminer.16.65.0         1465.48         hsaminer.163.55         10.61         hsaminer.163.55         10.61           hsaminer.163.50         1209.07         hsaminer.488-30         54.69         hsaminer.4454         10.47           hsaminer.163.50         1209.07         hsaminer.887.30         53.38         hsaminer.433.50         10.24           hsaminer.312.6         1182.04         hsaminer.216b-50         53.25         hsaminer.433.50         10.24           hsaminer.1246         1137.60         hsaminer.216b-50         53.28         hsaminer.107.30         10.09           hsaminer.125a.50         1024.4         hsaminer.30.52.30         51.77         hsaminer.16130         9.89           hsaminer.125a.50         1034.59         hsamirer.263.50         51.37         hsamirer.16132         9.89           hsaminer.125a.50         1034.59         hsamirer.263.50         51.77         hsamirer.16132		nsa-miR-21-3p	1594.85	nsa-miR-3607-5p	57.76	nsa-miR-4/32-3p	10.75
Ibsa-miR-130a-3p         1519-24         Ibsa-miR-1320         353         Ibsa-miR-10a-3p         10.64           hsa-miR-340-5p         1465.48         hsa-miR-1325         55.77         hsa-miR-129b.1-5p         10.61           hsa-miR-144b-3p         1331.97         hsa-miR-483-5p         55.27         hsa-miR-4454         10.48           hsa-miR-144-3p         1337.97         hsa-miR-488-3p         54.69         hsa-miR-4454         10.48           hsa-miR-340-5p         1209.07         hsa-miR-887-3p         53.38         hsa-miR-4483-5p         10.24           hsa-miR-204-5p         1182.04         hsa-miR-867-3p         53.38         hsa-miR-1197         10.47           hsa-miR-129-5p         1102.44         hsa-miR-616-5p         53.25         hsa-miR-161.3p         9.89           hsa-miR-129-5p         1102.44         hsa-miR-616-5p         52.28         hsa-miR-161.3p         9.89           hsa-miR-129-5p         1022.10         hsa-miR-302.23p         51.73         hsa-miR-162.3p         9.69           hsa-miR-185-5p         902.210         hsa-miR-335.5p         50.017         hsa-miR-4426         9.44           hsa-miR-342.3p         951.15         hsa-miR-449a         50.87         hsa-miR-4326         9.44		nsa-miR-181c-5p	1524.90	nsa-miR-590-3p	57.60	nsa-miR-331-5p	10.66
InsamiR-31-2p       147.4.11       InsamiR-232       357.71       InsamiR-230.1-2p       10.02         InsamiR-148b-3p       1341.62       InsamiR-3613-5p       55.51       InsamiR-14454       10.61         InsamiR-144-3p       1337.97       InsamiR-483-5p       55.51       InsamiR-14454       10.48         InsamiR-144-3p       1337.97       InsamiR-488-3p       54.17       InsamiR-14454       10.47         InsamiR-204-5p       1199.71       InsamiR-893-3p       53.38       InsamiR-1483-5p       10.24         InsamiR-1246       1137.60       InsamiR-664a-3p       52.89       InsamiR-172-3p       10.09         InsamiR-125-5p       1022.10       InsamiR-664a-3p       52.89       InsamiR-1299       10.02         InsamiR-125a-5p       1034.59       InsamiR-302-3p       52.43       InsamiR-1299       10.02         InsamiR-125a-5p       1034.59       InsamiR-302-3p       51.71       InsamiR-502-5p       9.68         InsamiR-125a-5p       961.24       InsamiR-302-3p       51.73       InsamiR-426-3p       9.45         InsamiR-312-3p       945.15       InsamiR-202-1-5p       50.53       InsamiR-432-6p       9.43         InsamiR-313-3p       92.01       InsamiR-202-5p       50.53       Ins		hsa-miR-130a-3p	1319.24	1158-1111R-3200	55.95 55.77	hsa miP 20h 1 5n	10.04
Ibar miR 144b-3p         1341.62         Ibar miR 43b-3p         55.27         Ibar miR 255-3p         10.57           hsa-miR-144-3p         1337.97         hsa-miR-483-3p         54.17         hsa-miR-1454         10.48           hsa-miR-15a-5p         1209.07         hsa-miR-483-3p         53.96         hsa-miR-1197         10.47           hsa-miR-13a-5p         1182.04         hsa-miR-289-3p         53.96         hsa-miR-1483-5p         10.24           hsa-miR-1246         1137.60         hsa-miR-216b-5p         53.25         hsa-miR-149-5p         10.12           hsa-miR-1246         1137.60         hsa-miR-216b-5p         53.25         hsa-miR-1197         10.09           hsa-miR-1246         1137.60         hsa-miR-216b-5p         52.89         hsa-let-712-3p         10.02           hsa-miR-125b         1075.13         hsa-miR-312-3p         52.43         hsa-miR-1299         10.02           hsa-miR-125a-5p         1034.59         hsa-miR-312-3p         51.07         hsa-miR-1299         10.02           hsa-miR-125a-5p         1012         hsa-miR-322-3p         51.07         hsa-miR-502-5p         9.68           hsa-miR-125a-5p         961.24         hsa-miR-302-5p         50.14         hsa-miR-542-5p         9.65		hsa-miR-34c-5n	1465.48	hsa-miR-3613-5n	55 51	hsa-miR-299-5n	10.62
Ibas miR 144-3p         1537.97         Ibas miR 195.05         54.69         Ibas miR 4454         10.48           has-miR-15a-5p         1209.07         hsa-miR-488-3p         54.17         hsa-miR-4454         10.47           hsa-miR-340-5p         1199.71         hsa-miR-87.3p         53.36         hsa-miR-4455.5p         10.24           hsa-miR-1246         1137.60         hsa-miR-6464.3p         52.89         hsa-miR-129.5p         10.12           hsa-miR-129.5p         1102.44         hsa-miR-664a.3p         52.89         hsa-miR-151.5p         10.03           hsa-miR-129.5p         103.459         hsa-miR-652.5p         52.82         hsa-miR-162.5p         9.69           hsa-miR-155.5p         1022.10         hsa-miR-372.3p         51.73         hsa-miR-162.5p         9.69           hsa-miR-185.5p         961.24         hsa-miR-32.5p         51.07         hsa-miR-502.5p         9.69           hsa-miR-189a-5p         957.25         hsa-miR-49a.3p         50.53         hsa-miR-442.5p         9.45           hsa-miR-374a-3p         924.12         hsa-miR-99b-3p         50.53         hsa-miR-449c-5p         9.33           hsa-miR-374a-3p         920.05         hsa-miR-1225.3p         48.22         hsa-miR-449c-5p         9.06		hsa-miR-148h-3n	1341 62	hsa-miR-493-5n	55 27	hsa-miR-515-5p	10.01
hsa-miR-15a-5p 1209.07 hsa-miR-488-3p 54.17 hsa-miR-1197 10.47 hsa-miR-340-5p 1199.71 hsa-miR-887-3p 53.36 hsa-miR-1483-5p 10.24 hsa-miR-2464-5p 1182.04 hsa-miR-93.2p 53.38 hsa-miR-1463-5p 10.12 hsa-miR-129.5p 1102.44 hsa-miR-216b-5p 53.25 hsa-miR-1973 10.09 hsa-miR-129.5p 1102.44 hsa-miR-664a-3p 52.89 hsa-let-712-3p 10.02 hsa-miR-125-5p 1034.59 hsa-miR-300.2-3p 52.43 hsa-miR-16.1-3p 9.89 hsa-miR-15b-5p 1022.10 hsa-miR-302.5p 51.73 hsa-miR-516b-5p 5.88 hsa-miR-1262.5p 9.69 hsa-miR-15b-5p 1022.10 hsa-miR-302.5p 51.07 hsa-miR-520.5p 9.69 hsa-miR-185-5p 9061.24 hsa-miR-305.5p 51.07 hsa-miR-26a.2-3p 9.45 hsa-miR-383-5p 51.07 hsa-miR-442.5p 9.58 hsa-miR-199a-5p 957.25 hsa-miR-393.5p 50.53 hsa-miR-4262.9 9.45 hsa-miR-384.2-3p 945.15 hsa-miR-393.5p 50.53 hsa-miR-449.5p 9.33 hsa-miR-381-3p 920.05 hsa-miR-92a.1-5p 50.14 hsa-miR-449.5p 9.33 hsa-miR-381-3p 920.05 hsa-miR-192.5 p 48.22 hsa-miR-449.5p 9.33 hsa-miR-381-3p 920.05 hsa-miR-523.5p 47.94 hsa-miR-390.9 9.05 hsa-miR-183-5p 858.09 hsa-miR-127.5p 47.28 hsa-miR-410-5p 9.06 hsa-miR-127.5p 48.22 hsa-miR-416-5p 8.96 hsa-miR-183-5p 858.09 hsa-miR-132-3p 47.28 hsa-miR-4161 8.87 hsa-miR-200-3p 823.44 hsa-miR-339.3p 46.41 hsa-miR-300.9 9.05 hsa-miR-200-3p 823.44 hsa-miR-339.3p 45.11 hsa-miR-301.5p 8.66 hsa-miR-120.5p 794.91 hsa-miR-370.3p 45.11 hsa-miR-4161 8.87 hsa-miR-200-3p 823.44 hsa-miR-370.3p 45.11 hsa-miR-4161 8.87 hsa-miR-200-3p 826.18 hsa-miR-370.3p 45.11 hsa-miR-4161 8.59 hsa-miR-190.5p 794.91 hsa-miR-370.3p 45.11 hsa-miR-416 8.59 hsa-miR-190.5p 794.91 hsa-miR-370.3p 45.11 hsa-miR-310.5p 8.66 hsa-miR-320.5p 45.11 hsa-miR-320.5p 8.50 hsa-miR-320.5p 45.11 hsa-miR-340.5p 8.54 hsa-miR-300.5p 8.54 hsa-miR-300.5p 8.54 hsa-miR-370.3p 45.51 hsa-miR-310.5p 8.54 hsa-miR-340.5p 45.51 hsa-miR-340.5p 8.54 hsa-miR-340.5p 75.56 hsa-miR-340.5p 45.51 hsa-miR-340.5p 8.54 hsa-miR-300.5p 75.56 hsa-miR-340.5p 45.10 hsa-miR-340.5p 8.54 hsa-miR-130-3p 754.56 hsa-miR-340.5p 45.10 hsa-miR-340.5p 8.54 hsa-miR-130-3p 754.56 hsa-miR-340.5p 45.10 hsa-miR-340.5p 8.37 hsa-miR-444 69.663 hsa-miR		hsa-miR-144-3p	1337.97	hsa-miR-95-3p	54.69	hsa-miR-4454	10.48
$\begin{array}{llllllllllllllllllllllllllllllllllll$		hsa-miR-15a-5p	1209.07	hsa-miR-488-3p	54.17	hsa-miR-1197	10.47
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		hsa-miR-340-5p	1199.71	hsa-miR-887-3p	53.96	hsa-miR-483-5p	10.24
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		hsa-miR-204-5p	1182.04	hsa-miR-99a-3p	53.38	hsa-miR-514b-5p	10.12
hsa-miR-129-5p1102.44hsa-miR-664a-3p52.89hsa-let-7f.2-3p10.03hsa-miR-125a-5p1034.59hsa-miR-516b-5p52.82hsa-miR-129910.02hsa-miR-15b-5p1032.10hsa-miR-372-3p51.73hsa-miR-161.13p9.89hsa-miR-185-5p961.24hsa-miR-333-5p51.07hsa-miR-502-5p9.69hsa-miR-199a-5p957.25hsa-miR-49450.87hsa-miR-426a.2-3p9.45hsa-miR-342-3p945.15hsa-miR-99b-3p50.53hsa-miR-43269.44hsa-miR-342-3p924.12hsa-miR-92a-5p50.14hsa-miR-449c-5p9.33hsa-miR-31-3p920.05hsa-miR-92a.1-5p50.09hsa-miR-449-5p9.33hsa-miR-425-5p867.08hsa-miR-1225-3p48.22hsa-miR-491-5p9.06hsa-miR-789-5p855.04hsa-miR-1275-3p48.22hsa-miR-30999.05hsa-miR-789-5p855.04hsa-miR-1275-3p47.94hsa-miR-30999.05hsa-miR-200b-3p823.44hsa-miR-1180-3p45.71hsa-miR-146b-3p8.87hsa-miR-200b-3p823.44hsa-miR-378b45.60hsa-miR-146b-3p8.66hsa-miR-199b-5p791.94hsa-miR-370-3p45.19hsa-miR-1306-5p8.66hsa-miR-130b-3p754.56hsa-miR-378b45.60hsa-miR-132-3p8.54hsa-miR-130b-3p754.56hsa-miR-378p42.87hsa-miR-132-3p8.54hsa-miR-130-5p753.79hsa-miR-378p42.87hsa-miR-1394-5p8.		hsa-miR-1246	1137.60	hsa-miR-216b-5p	53.25	hsa-miR-1973	10.09
hsa-miR-221-3p1075.13hsa-miR-516b-5p52.82hsa-miR-129910.02hsa-miR-125a-5p1034.59hsa-miR-30c.2-3p52.43hsa-miR-161-3p9.89hsa-miR-15b-5p1022.10hsa-miR-372-3p51.73hsa-miR-502-5p9.69hsa-miR-185-5p961.24hsa-miR-383-5p51.07hsa-miR-502-5p9.69hsa-miR-199a-5p957.25hsa-miR-449a50.87hsa-miR-43269.44hsa-miR-342-3p945.15hsa-miR-49b-3p50.53hsa-miR-43269.44hsa-miR-374a-3p924.12hsa-miR-92a.1-5p50.09hsa-miR-449-5p9.33hsa-miR-381-3p920.05hsa-miR-92a.1-5p50.09hsa-miR-449-5p9.06hsa-miR-769-5p855.04hsa-miR-532-3p48.22hsa-miR-491-5p9.06hsa-miR-769-5p855.04hsa-miR-30c.1-3p47.28hsa-miR-46618.87hsa-miR-200b-3p823.44hsa-miR-302-3p46.41hsa-miR-146b-3p8.66hsa-miR-199b-5p794.91hsa-miR-370.3p45.19hsa-miR-160-5p8.66hsa-miR-130b-3p754.56hsa-miR-372.5p45.19hsa-miR-130-5p8.59hsa-miR-130b-3p754.56hsa-miR-372.5p45.11hsa-miR-3912-3p8.54hsa-miR-195-5p791.94hsa-miR-372.5p45.11hsa-miR-3912-3p8.54hsa-miR-130b-3p754.56hsa-miR-425.5p44.35hsa-miR-190b8.44hsa-miR-195-5p753.79hsa-miR-425.5p45.51hsa-miR-190b8.		hsa-miR-129-5p	1102.44	hsa-miR-664a-3p	52.89	hsa-let-7f.2-3p	10.03
hsa-miR-125a-5p1034.59hsa-miR-30c.2-3p52.43hsa-miR-16.1-3p9.89hsa-miR-15b-5p1022.10hsa-miR-372-3p51.73hsa-miR-502-5p9.69hsa-miR-185-5p961.24hsa-miR-383-5p51.07hsa-miR-542-5p9.58hsa-miR-199a-5p957.25hsa-miR-499a50.87hsa-miR-3269.44hsa-miR-342-3p945.15hsa-miR-99b-3p50.53hsa-miR-43269.44hsa-miR-342-3p924.12hsa-miR-92a-5p50.14hsa-miR-449c-5p9.33hsa-miR-31-3p920.05hsa-miR-22a-5p50.09hsa-miR-449-5p9.06hsa-miR-769-5p855.04hsa-miR-1225-3p48.22hsa-miR-309099.05hsa-miR-769-5p855.04hsa-miR-127-5p47.94hsa-miR-516a-5p8.96hsa-miR-30e-3p826.18hsa-miR-30c.1-3p47.28hsa-miR-146b-3p8.87hsa-miR-10-3p800.38hsa-miR-37bb45.60hsa-miR-1306-5p8.66hsa-miR-199b-5p794.91hsa-miR-37bb45.60hsa-miR-16418.59hsa-miR-190b-5p794.91hsa-miR-37bb45.61hsa-miR-162-5p8.49hsa-miR-130b-3p755.56hsa-miR-324-5p45.11hsa-miR-16418.59hsa-miR-195-5p753.79hsa-miR-37bg45.11hsa-miR-162-5p8.49hsa-miR-195-5p753.79hsa-miR-326-5p45.45hsa-miR-190b8.44hsa-miR-1307-5p702.07hsa-miR-376g43.45hsa-miR-190b8.44		hsa-miR-221-3p	1075.13	hsa-miR-516b-5p	52.82	hsa-miR-1299	10.02
hsa-miR-15b-5p1022.10hsa-miR-372-3p51.73hsa-miR-502-5p9.69hsa-miR-185-5p961.24hsa-miR-383-5p51.07hsa-miR-562-5p9.58hsa-miR-199a-5p957.25hsa-miR-449a50.87hsa-miR-262-3p9.45hsa-miR-374a-3p924.12hsa-miR-99b-3p50.53hsa-miR-449c-5p9.33hsa-miR-381-3p920.05hsa-miR-92a-5p50.14hsa-miR-449c-5p9.20hsa-miR-425-5p867.08hsa-miR-1225-3p48.22hsa-miR-419-15p9.06hsa-miR-183-5p858.09hsa-miR-1225-3p47.94hsa-miR-491-5p9.06hsa-miR-769-5p855.04hsa-miR-127-5p47.93hsa-miR-516a-5p8.96hsa-miR-200b-3p823.44hsa-miR-309-3p46.41hsa-miR-146b-3p8.87hsa-miR-210-3p800.38hsa-miR-1180-3p45.71hsa-miR-1306-5p8.66hsa-miR-199b-5p794.91hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-130b-3p754.56hsa-miR-370-3p45.11hsa-miR-1302-5p8.49hsa-miR-130b-3p754.56hsa-miR-328hsa-miR-190b8.44hsa-miR-152-5p753.79hsa-miR-378g43.45hsa-miR-192-5p8.49hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-190b8.44hsa-miR-152-5p702.07hsa-miR-378g43.45hsa-miR-194-5p8.37hsa-miR-1307-5p702.07hsa-miR-378g42.87hsa-miR-3194-5p8.30hsa-miR-		hsa-miR-125a-5p	1034.59	hsa-miR-30c.2-3p	52.43	hsa-miR-16.1-3p	9.89
hsa-miR-185-5p961.24hsa-miR-343-5p51.07hsa-miR-342-5p9.58hsa-miR-199a-5p957.25hsa-miR-449a50.87hsa-miR-26a.2-3p9.45hsa-miR-342-3p945.15hsa-miR-99b-3p50.53hsa-miR-26a.2-3p9.44hsa-miR-374a-3p924.12hsa-miR-29a-5p50.14hsa-miR-43269.44hsa-miR-374a-3p920.05hsa-miR-29a-5p50.14hsa-miR-432-5p9.06hsa-miR-183-5p867.08hsa-miR-1225-3p48.22hsa-miR-491-5p9.06hsa-miR-183-5p858.09hsa-miR-532-3p47.94hsa-miR-30099.05hsa-miR-769-5p855.04hsa-miR-127-5p47.93hsa-miR-316a-5p8.96hsa-miR-200b-3p823.44hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-210-3p800.38hsa-miR-378b45.60hsa-miR-1306-5p8.66hsa-miR-180-5p794.91hsa-miR-378b45.60hsa-miR-3912-3p8.59hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-3912-3p8.54hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1190b8.44hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-127-3p8.42hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1394-5p8.37hsa-miR-107750.05hsa-miR-128-5p42.93hsa-miR-1394-5p8.37hsa-miR-107750.05hsa-miR-128-5p42.93hsa-miR-1394-5p8.37hsa-		hsa-miR-15b-5p	1022.10	hsa-miR-372-3p	51.73	hsa-miR-502-5p	9.69
hsa-miR-199a-5p957.25hsa-miR-449a50.87hsa-miR-26a.2-3p9.45hsa-miR-342-3p945.15hsa-miR-99b-3p50.53hsa-miR-43269.44hsa-miR-374a-3p924.12hsa-miR-29a-5p50.14hsa-miR-449c-5p9.33hsa-miR-381-3p920.05hsa-miR-29a-5p50.09hsa-miR-744-3p9.20hsa-miR-425-5p867.08hsa-miR-1225-3p48.22hsa-miR-491-5p9.06hsa-miR-769-5p855.04hsa-miR-127-5p47.93hsa-miR-30999.05hsa-miR-769-5p855.04hsa-miR-30c.1-3p47.28hsa-miR-4618.87hsa-miR-30e-3p826.18hsa-miR-30c.1-3p47.28hsa-miR-4618.87hsa-miR-200b-3p823.44hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-200b-3p800.38hsa-miR-370b45.71hsa-miR-1306-5p8.66hsa-miR-301-5p794.91hsa-miR-370b45.19hsa-miR-6418.59hsa-miR-301-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-130b-3p754.56hsa-miR-424-3p44.09hsa-miR-152-5p8.49hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-1307-5p702.07hsa-miR-378g43.45hsa-miR-3194-5p8.37hsa-miR-181a-3p693.08hsa-miR-162-3p42.29hsa-miR-64758.28hsa-mi		hsa-miR-185-5p	961.24	hsa-miR-383-5p	51.07	hsa-miR-542-5p	9.58
nsa-mirk-342-3p945.15nsa-mirk-390-3p50.53nsa-mirk-432b9.44hsa-miR-374a-3p924.12hsa-miR-29a-5p50.14hsa-miR-449c-5p9.33hsa-miR-381-3p920.05hsa-miR-92a.1-5p50.09hsa-miR-744-3p9.20hsa-miR-425-5p867.08hsa-miR-92a.1-5p50.09hsa-miR-491-5p9.06hsa-miR-183-5p858.09hsa-miR-1225-3p48.22hsa-miR-39099.05hsa-miR-30e-5p855.04hsa-miR-127-5p47.94hsa-miR-39099.05hsa-miR-30e-3p826.18hsa-miR-30c.1-3p47.28hsa-miR-44618.87hsa-miR-200b-3p823.44hsa-miR-303-3p46.41hsa-miR-146b-3p8.87hsa-miR-210-3p800.38hsa-miR-378b45.60hsa-miR-146b-3p8.87hsa-miR-199b-5p794.91hsa-miR-378b45.60hsa-miR-1885-3p8.59hsa-miR-141-3p779.51hsa-miR-370-3p45.19hsa-miR-3912-3p8.54hsa-miR-141-3p779.51hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-152-3p735.41hsa-miR-128-5p42.87hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-178-3p42.29hsa-miR-3194-5p8.37hsa-miR-181a-3p693.08hsa-miR-162-3p42.03hsa-miR-344-5p8.30hsa-miR-138-5p693.08hsa-miR-162-3p42.03hsa-miR-345-5p8.24 </td <td></td> <td>hsa-miR-199a-5p</td> <td>957.25</td> <td>hsa-miR-449a</td> <td>50.87</td> <td>hsa-miR-26a.2-3p</td> <td>9.45</td>		hsa-miR-199a-5p	957.25	hsa-miR-449a	50.87	hsa-miR-26a.2-3p	9.45
Insa-miR-37/42-5p524.12Insa-miR-293-5p50.14Insa-miR-4490-5p9.33hsa-miR-381-3p920.05hsa-miR-293-5p50.09hsa-miR-744-3p9.20hsa-miR-425-5p867.08hsa-miR-1225-3p48.22hsa-miR-744-3p9.20hsa-miR-183-5p858.09hsa-miR-1225-3p48.22hsa-miR-491-5p9.06hsa-miR-769-5p855.04hsa-miR-532-3p47.94hsa-miR-39099.05hsa-miR-30e-3p826.18hsa-miR-30c.1-3p47.28hsa-miR-44618.87hsa-miR-200b-3p823.44hsa-miR-30c.1-3p47.28hsa-miR-44618.87hsa-miR-210-3p800.38hsa-miR-3180-3p46.41hsa-miR-146b-3p8.86hsa-miR-210-3p800.38hsa-miR-378b45.60hsa-miR-1306-5p8.66hsa-miR-199b-5p794.91hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-130b-3p754.56hsa-miR-370-3p45.19hsa-miR-16418.59hsa-miR-141-3p779.51hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-378g42.87hsa-miR-3194-5p8.37hsa-miR-184A696.63hsa-miR-162-3p42.29hsa-miR-344-3p8.34hsa-miR-1844696.63hsa-miR-162-3p42.03hsa-miR-3548-3p8.20		nsa-miR-342-3p	945.15	nsa-miR-99b-3p	50.53	nsa-miR-4326	9.44
Insa-miR-32920.03Insa-miR-924.1-3050.09Insa-miR-144-3p9.20hsa-miR-425-5p867.08hsa-miR-1225-3p48.22hsa-miR-491-5p9.06hsa-miR-183-5p858.09hsa-miR-127-5p47.94hsa-miR-39099.05hsa-miR-769-5p855.04hsa-miR-127-5p47.93hsa-miR-316a-5p8.96hsa-miR-200b-3p820.18hsa-miR-309-3p46.41hsa-miR-146b-3p8.87hsa-miR-200b-3p800.38hsa-miR-130-3p45.71hsa-miR-146b-3p8.66hsa-miR-199b-5p794.91hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-141-5p791.94hsa-miR-370-3p45.11hsa-miR-6418.59hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-192-3p8.54hsa-miR-195-5p753.79hsa-miR-378g43.45hsa-miR-190b8.44hsa-miR-152-3p735.41hsa-miR-128-5p42.93hsa-miR-1304-5p8.37hsa-miR-181a-3p693.08hsa-miR-162-3p42.29hsa-miR-381-5p8.34hsa-miR-181a-3p693.08hsa-miR-162-3p42.03hsa-miR-60758.28hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-60758.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-645a7.95		hsa-miR-3748-3p	924.12	hsa-miR-29a-5p	50.14	hsa-miR-4490-5p	9.33
Insa-miR+182-5p607.80Insa-miR+122-5p47.94Insa-miR-39099.05hsa-miR-182-5p855.04hsa-miR+127-5p47.93hsa-miR-316a-5p8.96hsa-miR-30e-3p826.18hsa-miR-30c.1-3p47.28hsa-miR-44618.87hsa-miR-200b-3p823.44hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-200b-3p823.44hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-200b-3p800.38hsa-miR-1180-3p45.71hsa-miR-1306-5p8.66hsa-miR-199b-5p794.91hsa-miR-370-3p45.19hsa-miR-1306-5p8.66hsa-miR-199b-5p794.91hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-199b-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-1141-3p779.51hsa-miR-499a-5p45.11hsa-miR-6418.59hsa-miR-130b-3p754.56hsa-miR-378g43.45hsa-miR-190b8.44hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-190b8.42hsa-miR-1307-5p702.07hsa-miR-152-5p42.87hsa-miR-3194-5p8.37hsa-miR-181a-3p693.08hsa-miR-708-3p42.29hsa-miR-381-5p8.28hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.03hsa-miR-381-5p8.28hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-60758.24<		hsa-miR-425-5n	920.03 867.08	hsa-miR-1225-3n	48 22	hsa-miR-491-5p	9.20
Installine 100-3p000.05Installine 000 p11.04Installine 0000 p0.050hsa-miR-769-5p855.04hsa-miR-127-5p47.93hsa-miR-516a-5p8.96hsa-miR-200b-3p826.18hsa-miR-30c.1-3p47.28hsa-miR-44618.87hsa-miR-200b-3p823.44hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-210-3p800.38hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-199b-5p794.91hsa-miR-378b45.60hsa-miR-1306-5p8.66hsa-miR-199b-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-111hsa-miR-1203-5p751.1hsa-miR-499a-5p45.11hsa-miR-13912-3p8.54hsa-miR-130b-3p754.56hsa-miR-424-3p44.09hsa-miR-152-5p8.49hsa-miR-107750.05hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-1298-5p42.93hsa-miR-1394-5p8.37hsa-miR-1307-5p702.07hsa-miR-152-3p42.87hsa-miR-3194-5p8.34hsa-miR-1307-5p702.07hsa-miR-162-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.16hsa-miR-381-5p8.28hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-138-5p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-183-5p	858.09	hsa-miR-532-3p	40.22	hsa-miR-3909	9.00
hsa-miR-30e-3p826.18hsa-miR-30c.1-3p47.28hsa-miR-4618.87hsa-miR-200b-3p823.44hsa-miR-30c.1-3p47.28hsa-miR-146b-3p8.87hsa-miR-210-3p800.38hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-199b-5p794.91hsa-miR-378b45.60hsa-miR-1306-5p8.66hsa-miR-361-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-1278g43.45hsa-miR-1277-3p8.42hsa-miR-130r-5p702.07hsa-miR-152-5p42.93hsa-miR-1277-3p8.34hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.03hsa-miR-874-5p8.28hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-769-5p	855.04	hsa-miR-127-5p	47.93	hsa-miR-516a-5p	8.96
hsa-miR-200b-3p823.44hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-210-3p800.38hsa-miR-339-3p46.41hsa-miR-146b-3p8.87hsa-miR-199b-5p794.91hsa-miR-378b45.71hsa-miR-1306-5p8.66hsa-miR-361-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-141-3p779.51hsa-miR-499a-5p45.11hsa-miR-3912-3p8.54hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-152-5p8.42hsa-miR-107750.05hsa-miR-1278g43.45hsa-miR-1277-3p8.42hsa-miR-152-3p735.41hsa-miR-1298-5p42.93hsa-miR-1277-3p8.34hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-1307-5p702.07hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-30e-3p	826.18	hsa-miR-30c 1-3p	47.28	hsa-miR-4461	8.87
hsa-miR-210-3p800.38hsa-miR-1180-3p45.71hsa-miR-1306-5p8.66hsa-miR-199b-5p794.91hsa-miR-378b45.60hsa-miR-1306-5p8.59hsa-miR-361-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-141-3p779.51hsa-miR-499a-5p45.11hsa-miR-3912-3p8.54hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-1278g43.45hsa-miR-1277-3p8.42hsa-miR-152-3p735.41hsa-miR-1298-5p42.93hsa-miR-1277-3p8.42hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.16hsa-miR-874-5p8.28hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-60758.24hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-200b-3p	823.44	hsa-miR-339-3p	46.41	hsa-miR-146b-3p	8.87
hsa-miR-199b-5p794.91hsa-miR-378b45.60hsa-miR-885-3p8.59hsa-miR-361-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-141-3p779.51hsa-miR-499a-5p45.11hsa-miR-3912-3p8.54hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-107750.05hsa-miR-1298-5p42.93hsa-miR-1277-3p8.42hsa-miR-107750.07hsa-miR-1298-5p42.87hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-181a-3p693.08hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-210-3p	800.38	hsa-miR-1180-3p	45.71	hsa-miR-1306-5p	8.66
hsa-miR-361-5p791.94hsa-miR-370-3p45.19hsa-miR-6418.59hsa-miR-141-3p779.51hsa-miR-499a-5p45.11hsa-miR-3912-3p8.54hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-107750.05hsa-miR-1298-5p42.93hsa-miR-1277-3p8.42hsa-miR-107750.07hsa-miR-1298-5p42.87hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-181a-3p696.63hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-485-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-199b-5p	794.91	hsa-miR-378b	45.60	hsa-miR-885-3p	8.59
hsa-miR-141-3p779.51hsa-miR-499a-5p45.11hsa-miR-3912-3p8.54hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-152-3p735.41hsa-miR-1298-5p42.93hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-484696.63hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-486-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-361-5p	791.94	hsa-miR-370-3p	45.19	hsa-miR-641	8.59
hsa-miR-130b-3p754.56hsa-miR-342-5p44.35hsa-miR-152-5p8.49hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-152-3p735.41hsa-miR-1298-5p42.93hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-1844696.63hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-486-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-141-3p	779.51	hsa-miR-499a-5p	45.11	hsa-miR-3912-3p	8.54
hsa-miR-195-5p753.79hsa-miR-424-3p44.09hsa-miR-190b8.44hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-152-3p735.41hsa-miR-1298-5p42.93hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-484696.63hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-162-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-486-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-130b-3p	754.56	hsa-miR-342-5p	44.35	hsa-miR-152-5p	8.49
hsa-miR-107750.05hsa-miR-378g43.45hsa-miR-1277-3p8.42hsa-miR-152-3p735.41hsa-miR-1298-5p42.93hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-484696.63hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-486-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-195-5p	753.79	hsa-miR-424-3p	44.09	hsa-miR-190b	8.44
hsa-miR-152-3p735.41hsa-miR-1298-5p42.93hsa-miR-3194-5p8.37hsa-miR-1307-5p702.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-484696.63hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-162-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-485-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-107	750.05	hsa-miR-378g	43.45	hsa-miR-1277-3p	8.42
nsa-miR-130/-5p/02.07hsa-miR-15b-3p42.87hsa-miR-548ah-3p8.34hsa-miR-484696.63hsa-miR-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-162-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-485-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		hsa-miR-152-3p	735.41	hsa-miR-1298-5p	42.93	hsa-miR-3194-5p	8.37
hsa-miK-484696.63hsa-miK-708-3p42.29hsa-miR-874-5p8.30hsa-miR-181a-3p693.08hsa-miR-16.2-3p42.16hsa-miR-381-5p8.28hsa-miR-223-3p687.83hsa-miR-485-3p42.03hsa-miR-60758.24hsa-miR-138-5p677.80hsa-miR-486-3p42.03hsa-miR-185-3p8.20hsa-miR-132-3p665.62hsa-miR-625-5p41.88hsa-miR-548ba7.95		nsa-miR-1307-5p	/02.07	hsa-miR-15b-3p	42.87	nsa-miR-548ah-3p	8.34
Itsa-mik-161a-3p       693.06       nsa-mik-16.2-3p       42.16       nsa-mik-381-5p       8.28         hsa-miR-223-3p       687.83       hsa-miR-485-3p       42.03       hsa-miR-6075       8.24         hsa-miR-138-5p       677.80       hsa-miR-486-3p       42.03       hsa-miR-185-3p       8.20         hsa-miR-132-3p       665.62       hsa-miR-625-5p       41.88       hsa-miR-548ba       7.95		nsa-miR-484	696.63	nsa-miR-708-3p	42.29	nsa-miR-8/4-5p	8.30
isa-niik-223-3p 067.83 nsa-mik-485-3p 42.03 nsa-mik-6075 8.24 hsa-miR-138-5p 677.80 hsa-miR-486-3p 42.03 hsa-miR-185-3p 8.20 hsa-miR-132-3p 665.62 hsa-miR-625-5p 41.88 hsa-miR-548ba 7.95		nsa-mik-181a-3p	093.UX	nsa-miR-16.2-3p	42.10	nsa-miR-381-5p	0.20 0.24
hsa-miR-132-3p 077.50 115a-11117-460-3p 42.03 115a-11117-165-3p 8.20 hsa-miR-132-3p 665.62 hsa-miR-625-5p 41.88 hsa-miR-548ba 7.95		115d-1111R-223-30 hsa-miR 138 5n	001.03 677.80	1158-1111K-400-30	42.03	115d-1111K-00/5 hea-miP 195 2n	0.24 8.20
115a-11111-132-3p 003.02 115a-11111-023-3p 41.00 115a-11111-340Dd 7.93		hsa-miR-130-00	665.62	113a-111117-400-30 hea-miR-625 5n	42.00	hea-miR-5/9ha	0.20 7.05
	-	13a-1111X-132-3P	000.02	13a-11111-023-3P	1.00	nsa-min-5400a	1.30

hsa-miR-323a-3p	614.80	hsa-miR-561-5p	40.93	hsa-miR-769-3p	7.55
hsa-miR-30a-3p	614.51	hsa-miR-4485-3p	40.88	hsa-miR-338-5p	7.55
hsa-miR-379-5p	607.88	hsa-miR-132-5p	40.32	hsa-miR-30b-3p	7.53
hsa-miR-34a-5p	595.21	hsa-miR-450b-5p	40.18	hsa-miR-1270	7.49
hsa-miR-181a.2-3p	572.97	hsa-miR-377-3p	40.18	hsa-miR-302c-3p	7.37
hsa-miR-205-5p	558.00	hsa-miR-551b-3p	39.94	hsa-miR-642a-5p	7.21
hsa-miR-301a-3p	549.78	hsa-miR-24.2-5p	39.81	hsa-miR-654-5p	7.19
hsa-miR-410-3p	506.24	hsa-miR-548k	39.52	hsa-miR-1303	7.17
hsa-miR-218-5p	504.07	hsa-miR-7.1-3p	39.44	hsa-miR-642b-3p	7.15
hsa-miR-215-5p	492.99	hsa-miR-582-5p	39.36	hsa-miR-3158-3p	7.14
hsa-miR-18a-5p	489.20	hsa-miR-30d-3p	38.97	hsa-miR-545-3p	7.11
hsa-miR-532-5p	486.05	hsa-miR-340-3p	38.78	hsa-miR-1251-5p	7.11
hsa-miR-411-5p	483.52	hsa-miR-362-5p	37.71	hsa-miR-3928-3p	7.08
hsa-miR-193b-3p	477.54	hsa-miR-450a-5p	37.62	hsa-miR-23c	7.05
hsa-miR-501-3p	474.06	hsa-miR-628-5p	37.46	hsa-miR-1911-5p	6.91
hsa-miR-217	462.54	hsa-miR-3200-3p	37.18	hsa-miR-6500-3p	6.83
hsa-miR-219a.2-3p	448.18	hsa-miR-93-3p	37.04	hsa-miR-203a-5p	6.83
hsa-miR-200a-3p	439.41	hsa-miR-629-5p	36.48	hsa-miR-3065-3p	6.79
hsa-miR-136-3p	421.51	hsa-miR-3653-5p	35.83	hsa-miR-337-5p	6.78
hsa-miR-203a-3p	413.99	hsa-miR-539-3p	35.17	hsa-miR-7114-5p	6.67
hsa-miR-194-5p	399.52	hsa-miR-625-3p	34.59	hsa-miR-124-5p	6.67
hsa-miR-424-5p	391.16	hsa-miR-20a-3p	34.28	hsa-miR-518c-3p	6.64
hsa-miR-135a-5p	390.42	hsa-miR-514a-3p	34.27	hsa-miR-576-3p	6.63
hsa-miR-196b-5p	390.18	hsa-miR-7706	34 20	hsa-miR-483-3p	6.60
hsa-miR-335-3p	381.96	hsa-miR-4521	33 71	hsa-miR-2355-5n	6.57
hsa-miR-433-3p	374 65	hsa-miR-378e	33.61	hsa-miR-337-3p	6.53
hsa-miR-139-5p	373.65	hsa-miR-204-3p	33.24	hsa-miR-1276	6.48
hsa-miR-224-5p	368 49	hsa-miR-1249-3p	32 55	hsa-miR-4746-5p	6 44
hsa-miR-874-3n	362 45	hsa-miR-873-5p	31.83	hsa-miR-365a-5p	6.39
hsa-miR-497-5p	353 79	hsa-miR-188-5p	31.63	hsa-miR-1287-5p	6.39
hsa-miR-181d-5p	349.93	hsa-miR-382-3p	31.07	hsa-miR-550a-5p	6.38
hsa-miR-760	349.80	hsa-miR-944	30.75	hsa-miR-301a-5p	6.35
hsa-miR-1260b	341.89	hsa-miR-212-5p	30.44	hsa-miR-380-3p	6.31
hsa-miR-335-5p	339.26	hsa-miR-141-5p	30.29	hsa-miR-4662a-5n	6.27
hsa-miR-328-3p	331.57	hsa-miR-1268b	30.20	hsa-let-7c-3p	6.20
hsa-miR-140-5p	331.10	hsa-miR-193b-5p	30.16	hsa-miR-449b-5p	6.16
hsa-miR-500a-3p	330.92	hsa-miR-139-3p	29.74	hsa-miR-371a-3p	6.16
hsa-miR-660-5p	330.04	hsa-miR-505-3p	29.73	hsa-miR-411-3p	6.14
hsa-miR-32-5p	321 42	hsa-miR-589-5p	29.17	hsa-miR-3934-5n	6.12
hsa-miR-135b-5p	311.08	hsa-miR-133b	29.14	hsa-miR-33b-3p	6.11
hsa-miR-216a-5p	304.18	hsa-miR-1285-3p	28.91	hsa-miR-619-5p	6.10
hsa-miR-206	303.78	hsa-miR-155-3p	28.83	hsa-miR-766-5p	6.06
hsa-miR-153-3p	302.22	hsa-miR-143-5p	28.82	hsa-miR-378i	6.00
hsa-miR-1296-5p	297.92	hsa-miR-589-3p	28.16	hsa-miR-1185_1-3p	5.96
hsa-miR-744-5p	291.39	hsa-miR-362-3p	28.08	hsa-miR-548b-5p	5.94
hsa-miR-363-3p	290.84	hsa-miR-615-3p	27.85	hsa-miR-365b-5p	5.89
hsa-miR-338-3p	286.05	hsa-miR-425-3p	27.52	hsa-miR-211-5p	5.87
hsa-miR-28-5p	282.55	hsa-let-7g-3p	27.31	hsa-miR-1226-3p	5.86
hsa-miR-196a-5p	273 54	hsa-miR-454-5p	26.65	hsa-miR-3613-3n	5 84
hsa-miR-409-3n	252.68	hsa-miR-501-5p	26.63	hsa-miR-670-3p	5.82
hsa-miR-373-3n	244 30	hsa-miR-223-5p	26.36	hsa-miR-1910-5n	5.81
hsa-miR-889-3n	235 73	hsa-let-7h-3n	26.33	hsa-miR-4517	5 79
hsa-miR-221-5n	232.85	hsa-miR-574-5n	26.00	hsa-miR-1179	5 78
hsa-miR-1224-5p	230.84	hsa-miR-500a-5p	26.02	hsa-miR-7976	5 77
hsa-miR-574-3p	229 12	hsa-miR-652-5p	25.98	hsa-miR-4446-3n	5.68
hsa-miR-219a-5p	228 20	hsa-miR-1185-5p	25.28	hsa-miR-4433b-3n	5.66
hsa-miR-149-5p	227 79	hsa-miR-518b	24 81	hsa-miR-135h-3n	5 59
hsa-miR-941	223.84	hsa-miR-493-3n	24.67	hsa-miR-3117-3n	5 59
hsa-miR-454-3n	223 43	hsa-miR-512-3p	24.20	hsa-miR-219a 1-3n	5.58
hsa-miR-374a-5p	223.28	hsa-miR-214-5p	23.92	hsa-miR-6511a-3p	5.48
hsa-miR-652-3p	219.80	hsa-miR-503-5p	23.89	hsa-miR-504-5p	5.44
hsa-miR-509 3-5p	218.42	hsa-miR-505-5p	23.76	hsa-miR-3620-3p	5.35
hsa-miR-598-3n	217 57	hsa-miR-129 1-3n	23.44	hsa-miR-665	5.30
hsa-miR-374b-5p	217.43	hsa-miR-323b-3p	23.39	hsa-miR-190a-3p	5.27
hsa-miR-197-3n	213.92	hsa-miR-100-3n	23.33	hsa-miR-548g-3p	5.26
hsa-miR-376c-3p	213.13	hsa-miR-29b 2-5p	23.28	hsa-miR-487a-5p	5.10
hsa-let-7d-3n	197.06	hsa-miR-202-5n	23.22	hsa-miR-518e-3n	5.04
hsa-miR-1307-3p	195.58	hsa-miR-490-3p	23.21		
hsa-miR-184	191.33	hsa-miR-3607-3p	23.16		
		F			

Accession.ID	Sample	Accession.ID	Sample	Accession.ID	Sample
SRR772343	adipose tissue	SRR772350	adipose tissue	SRR772376	adipose tissue
SRR772381	adipose tissue	SRR772414	adipose tissue	SRR772416	adipose tissue
SRR772418	adipose tissue	SRR772427	adipose tissue	SRR772435	adipose tissue
SRR772437	adipose tissue	SRR772453	adipose tissue	SRR772461	adipose tissue
SRR772472	adipose tissue	SRR772475	adipose tissue	SRR772499	adipose tissue
SRR772509	adipose tissue	SRR772511	adipose tissue	SRR772512	adipose tissue
SRR772528	adipose tissue	SRR772560	adipose tissue	SRR772589	adipose tissue
SRR772593	adipose tissue	SRR772595	adipose tissue	SRR772605	adipose tissue
SRR772620	adipose tissue	SRR772623	adipose tissue	SRR772624	adipose tissue
SRR772631	adipose tissue	SRR772657	adipose tissue	SRR772667	adipose tissue
SRR772674	adipose tissue	SRR772675	adipose tissue	SRR772678	adipose tissue
SRR772681	adipose tissue	SRR1028924	alpha cell	SRR1012314	B-cell lymphoma
SRR1012315	B-cell lymphoma	SRR1012316	B-cell lymphoma	SRR1012318	B-cell lymphoma
SRR1012328	B-cell lymphoma	SRR1028925	beta cell	DRR013040	bladder cancer
DRR013042	bladder cancer	DRR013043	bladder cancer	DRR013044	bladder cancer
DRR013039	bladder epithelia	SRR804662	blood	SRR804669	Blood
SRR804672	Blood	SRR804676	blood	SRR804678	Blood
SRR804682	Blood	SRR804688	blood	SRR353655	blood cell
SRR353656	blood cell	SRR353657	blood cell	SRR353659	blood cell
ERR038406	Brain	ERR038407	brain	ERR038409	Brain
SRR1103939	Brain	SRR1103941	brain	SRR1103942	Brain
SRR1103946	Brain	SRR1103948	brain	SRR095854	Brain
CDD521(02	During and many of terms of	CDD521604	Derin aucheren al terrare	SDD521695	Brain embryonal
SKK331083	Brain embryonal tumor	SKK551084	Brain embryonai tumor	SKK331083	tumor
SDD521696	During and many of terms of	SDD521707	Durin and marginal terms of	CDD 521709	Brain embryonal
SKK351060	Brain emoryonal tumor	SKK351/0/	Brain embryonai tumor	SKK351708	tumor
SRR531709	Brain embryonal tumor	SRR531713	Brain embryonal tumor	SRR531687	Brain germ cell tumor
SRR531688	Brain germ cell tumor	SRR531689	Brain germ cell tumor	SRR531690	Brain germ cell tumor
SRR531691	Brain germ cell tumor	SRR531711	Brain germ cell tumor	SRR531715	Brain germ cell tumor
SRR531692	Brain glioma	SRR531693	Brain glioma	SRR531694	Brain glioma
SRR531695	Brain glioma	SRR531696	Brain glioma	SRR531697	Brain glioma
SRR531698	Brain glioma	SRR531699	Brain glioma	SRR531700	Brain glioma
SRR531701	Brain glioma	SRR531702	Brain glioma	SRR531703	Brain glioma
SRR531704	Brain glioma	SRR531705	Brain glioma	SRR531706	Brain glioma
SDD521710	Drain glioma	SDD1024124	Cingulate gyrus (grey	SPD1024126	Cingulate gyrus (grey
SKK351710	Brain gnoma	SKK1024154	matter)	SKR1024130	matter)
SPP 1012310	follicle center lymphoma	SPP1012320	follicle center	EDD038425	Heart
SKR1012519	Tomete center Tymphoma	SKK1012520	lymphoma	EKK038423	mean
SRR1241600	HEK293T cell	SRR1241604	HEK293T cell	SRR1241605	HEK293T cell
SRR1241606	HEK293T cell	SRR1241607	HEK293T cell	SRR1241608	HEK293T cell
SRR1241609	HEK293T cell	SRR1241612	HEK293T cell	SRR1241613	HEK293T cell
SRR628450	Hela cell	SRR628451	Hela cell	SRR628453	Hela cell
SRR628454	Hela cell	ERR038420	kidney	ERR038421	Kidney
ERR038422	Kidney	ERR038412	liver	SRR950887	liver + miR-302d

Table S3. The 181 publicly available small RNA libraries for human tissues and cell lines

SRR372612	Lung	SRR372614	Lung	SRR372615	Lung
SRR372616	Lung	SRR372618	Lung	SRR372619	Lung
SRR372620	Lung	SRR372621	Lung	SRR372622	Lung
SRR372623	Lung	SRR372624	Lung	SRR372625	Lung
SRR372626	Lung	SRR372628	Lung	SRR372631	Lung
SRR372632	Lung	SRR372635	Lung	SRR372637	Lung
SRR372639	Lung	SRR372640	Lung	SRR372641	Lung
SRR372643	Lung	SRR372646	Lung	SRR372647	Lung
SDD1012067	Lung Cancer Cell Line	SPD1012070	Lung Cancer Cell Line	SDD1012071	Lung Cancer Cell Line
SKK1015907	A549	SKK1013979	H1264	SKK1013971	H460
SPP 1013075	Lung Cancer Cell Line	SPP1013083	Lung Cancer Cell Line	SPP 1013060	Lung Venograft A 540
SKK1015975	H520	SKK1013983	RVH6849	SKK1013909	Lung Achogrant A349
SRR1013981	Lung Xenograft H1264	SRR1013973	Lung Xenograft H460	SRR1013978	Lung Xenograft H520
SRR1013985	Lung Xenograft	SRR 592690	lymphoblastoid cells	SRR 592692	lymphoblastoid cells
51111111111111	RVH6849	514(5)2090	Tymphoblastold cens	5111372072	Tymphoblastold cens
SRR592693	lymphoblastoid cells	SRR592694	lymphoblastoid cells	SRR592695	lymphoblastoid cells
SPR 1290798	lymphoblastoid SUP-T1	SPP1290809	lymphoblastoid SUP-T1	SPR873380	MCE 7 cell
511250750	cells	5881290009	cells	56675565	Wich - / cell
SRR060986	memory B cell	SRR950877	miRQC A repeat	SRR950878	miRQC B
SRR950881	miRQC C repeat	SRR950883	miRQC D repeat	SRR060985	naive B cell
SRR015358	Naive B Cell(Naive39)	SRR1028933	whole islet	SRR926589	Peripheral blood
SRR1012334	peripheral blood B-cells	SRR060983	pre-germinal center B	SRR491355	Renal
51411012001	penpilerar encod D cente	printeessee	cell	brut is 1000	
SRR1028935	whole islet	ERR328151	testis	SRR1028926	whole islet
SRR1028927	whole islet	SRR1028930	whole islet	SRR1028931	whole islet
SRR1028932	whole islet				

These small RNA libraries were downloaded from the NCBI SRA website

(www.ncbi.nlm.nih.gov/sra, last accessed 16 May 2016).

Accession.ID	Sample	Accession.ID	Sample	Accession.ID	Sample
SRR553572	Human Frontal Cortex	SRR553573	Human Cerebellum	SRR553574	Human Heart
SRR553575	Human Kidney	SRR553576	Human Testis	SRR553577	Macaque Frontal Cortex
SRR553578	Macaque Cerebellum	SRR553579	Macaque Heart	SRR553580	Macaque Kidney
SRR553581	Macaque Testis	SRR553582	Mouse Frontal Cortex	SRR553583	Mouse Cerebellum
SRR553584	Mouse Heart	SRR553585	Mouse Kidney	SRR553586	Mouse Testis
SRR553587	Opossum Frontal Cortex	SRR553588	Opossum Cerebellum	SRR553589	Opossum Heart
SRR553590	Opossum Kidney	SRR553591	Opossum Testis	SRR553597	Chicken Frontal Cortex
SRR553598	Chicken Cerebellum	SRR553600	Chicken Kidney	SRR553601	Chicken Testis
SRR553599	Chicken Heart				

Table S4. The publicly available small RNA libraries for tissues of five species

Table	S5.	The	numbers	of	canonical	target	sites	for	the	broadly	conserved	SCUmiRs	and
DmiR	fan	nilies											

Family	Mature miRNAs	Seed	Category	All targets	$P_{CT} > 0.5$	Fraction $(P_{} > 0.5)$
mir_122	miR-122-5n	GGAGTGT	hetero-seed	6883	15	0.002
mir-214	miR-122-5p	CAGCAGG	hetero-seed	9111	0	0.002
mir-216	miR-216a-5p	AATCTCA	hetero-seed	5546	103	0.019
mir-216	miR-216b-5p	AATCTCT	hetero-seed	5253	97	0.018
mir-10	miR-100-5p/99a-5p/99b-5p	ACCCGTA	HH-seed	374	0	0.000
mir-10	miR-10a-5p/10b-5p	ACCCTGT	HH-seed	4736	166	0.035
mir-10	miR-125b-5p	CCCTGAG	HH-seed	6400	717	0.112
mir-17	miR-106a-5p/106b-5p/17-5p/20a-5p/20b-5p/93-5p	AAAGTGC	HH-seed	9459	1219	0.129
mir-17	miR-18a-5p/18b-5p	AAGGTGC	HH-seed	3473	143	0.041
mir-219	miR-219a-5p	GATTGTC	HH-seed	2839	332	0.117
mir-34	miR-34a-5p/34c-5p	GGCAGTG	HH-seed	5826	661	0.113
mir-34	miR-34b-5p	AGGCAGT	HH-seed	5296	0	0.000
mir-449	miR-449a/449b-5p	GGCAGTG	HH-seed	5826	661	0.113
mir-8	miR-200b-3p/200c-3p/429	AATACIG	HH-seed	6666	836	0.125
mir-8	mik-141-3p/2008-3p let 7a 5p/7b 5p/7c 5p/7d 5p/7e 5p/7f 5p/7g 5p/7i 5	AACACIG	HH-seed	6905	225	0.033
let-7	n/98-5n	GAGGTAG	homo-seed	4129	1266	0.307
mir-1	miR-1-3p/206	GGAATGT	homo-seed	5559	782	0.141
mir-101	miR-101-3p	ACAGTAC	homo-seed	5537	516	0.093
mir-103	miR-103a-3p/107	GCAGCAT	homo-seed	6035	433	0.072
mir-124	miR-124-3p	AAGGCAC	homo-seed	5898	1969	0.334
mir-128	miR-128-3p	CACAGTG	homo-seed	8148	947	0.116
mir-129	miR-129-5p	TTTTTGC	homo-seed	14645	0	0.000
mir-130	miR-130a-3p/130b-3p/301a-3p/301b-3p	AGTGCAA	homo-seed	4856	962	0.198
mir-132	miR-132-3p/212-3p	AACAGTC	homo-seed	5029	131	0.026
mir-133	miR-135a-3p/133b	ATCCCTT	homo-seed	3567	647	0.181
mir-135	miR-135a-5p/1350-5p	CCTCCTC	homo-seed	48/5	044 472	0.132
mir 146	miR $1/6_{2}$ 5 $p/1/6h$ 5 $p$	GAGAACT	homo seed	5087	4/5	0.089
mir-148	$miR_{-148a_{-}3n/148b_{-}3n/152_{-}3n}$	CAGTGCA	homo-seed	5110	567	0.111
mir-15	miR-15a-5p/15b-5p/16-5p/195-5p	AGCAGCA	homo-seed	7661	1474	0.192
mir-153	miR-153-3p	TGCATAG	homo-seed	4180	805	0.193
mir-181	miR-181a-5p/181b-5p/181d-5p	ACATTCA	homo-seed	7605	937	0.123
mir-19	miR-19a-3p/19b-3p	GTGCAAA	homo-seed	5120	1204	0.235
mir-190	miR-190a-5p/190b	GATATGT	homo-seed	3133	31	0.010
mir-192	miR-192-5p/215-5p	TGACCTA	homo-seed	3145	0	0.000
mir-193	miR-193a-3p/193b-3p	ACTGGCC	homo-seed	3542	74	0.021
mir-194	miR-194-5p	GTAACAG	homo-seed	4977	193	0.039
mir-196	miR-196a-5p/196b-5p	AGGTAGT	homo-seed	2665	265	0.099
mir-199	miR-199a-5p/199b-5p	CCAGIGI	homo-seed	5533	346	0.063
mir-199	miR-199a-3p/199b-3p miP 204 $5p/211 5p$	TCCCTTT	homo-seed	3009	547	0.095
mir-204	miR-204-3p/211-5p	TAAGACG	homo-seed	2967	0	0.000
mir-218	miR-218-5p	TGTGCTT	homo-seed	5233	978	0.187
mir-221	miR-221-3p/222-3p	GCTACAT	homo-seed	3796	181	0.048
mir-23	miR-23a-3p/23b-3p	TCACATT	homo-seed	8284	279	0.034
mir-24	miR-24-3p	GGCTCAG	homo-seed	10528	264	0.025
mir-25	miR-25-3p/92a-3p/92b-3p	ATTGCAC	homo-seed	5184	966	0.186
mir-26	miR-26a-5p/26b-5p	TCAAGTA	homo-seed	6607	0	0.000
mir-27	miR-27a-3p/27b-3p	TCACAGT	homo-seed	7660	1097	0.143
mir-29	miR-29a-3p/29b-3p/29c-3p	AGCACCA	homo-seed	4495	1289	0.287
mir-30	miK- $302-3p/300-3p/30c-5p/30d-5p/30d-5p$	GIAAACA	nomo-seed	5//0	1595	0.2/6
mir-302	mik-302a-3p/3020-3p/3020-3p/3020-3p mik-33a-5n/33h-5n	TGCATTG	homo-seed	5540	22	0.096
mir-365	miR-365a-3n/365h-3n	AATGCCC	homo-seed	3558	79	0.022
mir-7	miR-7-5p	GGAAGAC	homo-seed	6789	245	0.036
mir-9	miR-9-5p	CTTTGGT	homo-seed	5948	1331	0.224
mir-21	miR-21-5p	AGCTTAT	Convergence	3302	141	0.043
mir-32	miR-32-5p	ATTGCAC	Convergence	5184	966	0.186
mir-363	miR-363-3p	ATTGCAC	Convergence	5184	966	0.186
mir-367	miR-367-3p	ATTGCAC	Convergence	5184	966	0.186
mir-454	miR-454-3p	AGTGCAA	Convergence	4856	962	0.198
mir-96	miR-96-5p	TIGGCAC	Convergence	5321	1206	0.227
mir-126	miR-126-3p	CACCTCC	SC-unique	240	0	0.000
mir 127	miR 127	TATTOOT	SC-unique	0492	1244	0.000
mir_140	miR-13/ miR-140-5n	AGTGGTT	SC-unique	4009	1244 242	0.270
mir-140	miR-140-5p miR-142-5n	ATAAAGT	SC-unique	8094	279	0.028
mir-143	miR-143-3p	GAGATGA	SC-unique	6643	64	0.010
mir-144	miR-144-3p	ACAGTAT	SC-unique	6336	242	0.038
mir-145	miR-145-5p	TCCAGTT	SC-unique	5992	628	0.105
mir-150	miR-150-5p	CTCCCAA	SC-unique	11817	0	0.000
mir-155	miR-155-5p	TAATGCT	SC-unique	4284	123	0.029

mir-182	miR-182-5p	TTGGCAA	SC-unique	5922	989	0.167
mir-183	miR-183-5p	ATGGCAC	SC-unique	4359	280	0.064
mir-184	miR-184	GGACGGA	SC-unique	1087	0	0.000
mir-187	miR-187-3p	CGTGTCT	SC-unique	888	0	0.000
mir-191	miR-191-5p	AACGGAA	SC-unique	843	0	0.000
mir-202	miR-202-5p	TCCTATG	SC-unique	4418	0	0.000
mir-205	miR-205-5p	CCTTCAT	SC-unique	5976	85	0.014
mir-210	miR-210-3p	TGTGCGT	SC-unique	898	0	0.000
mir-217	miR-217	ACTGCAT	SC-unique	5379	59	0.011
mir-22	miR-22-3p	AGCTGCC	SC-unique	4743	349	0.074
mir-223	miR-223-3p	GTCAGTT	SC-unique	3910	6	0.002
mir-31	miR-31-5p	GGCAAGA	SC-unique	5147	68	0.013
mir-338	miR-338-3p	CCAGCAT	SC-unique	6351	0	0.000
mir-375	miR-375	TTGTTCG	SC-unique	4057	0	0.000
mir-383	miR-383-5p	GATCAGA	SC-unique	3337	0	0.000
mir-425	miR-425-5p	ATGACAC	SC-unique	4473	0	0.000
mir-451	miR-451a	AACCGTT	SC-unique	558	0	0.000
mir-455	miR-455-5p	ATGTGCC	SC-unique	3723	75	0.020
mir-490	miR-490-5p	CATGGAT	SC-unique	4201	0	0.000
mir-499	miR-499a-5p	TAAGACT	SC-unique	4285	0	0.000
mir-129	miR-129-3p	AGCCCTT	homo-seed	3789	298	0.079

SCUmiR: single-copy miRNAs that have unique seeds.

Only the miRNAs that are broadly conserved and originated before the split of mammals and fish/bird/frog are considered.

The target sites were downloaded from the TargetScan7.0 website (<u>www.targetscan.org</u>), and all the three types of target sites (8mer, 7mer-A1 and 7mer-m8) were considered.

Samples	Total reads	Mapping rate	Unique mapping
- 1		(%)	rate (%)
293FT _mock-rep1	12,910,622	89.74	62.45
293FT _mock-rep2	20,093,471	90.10	61.61
293FT_NC-32h-rep1	54,547,365	91.88	73.84
293FT_NC-32h-rep2	12,249,445	89.73	56.86
293FT _let-7a-12h-rep1	35,711,844	91.94	75.03
293FT _let-7a-12h-rep2	10,917,691	92.59	46.53
293FT _let-7a-32h-rep1	36,819,475	91.23	73.10
293FT _let-7a-32h-rep2	18,815,462	84.23	52.49
293FT _let-7b-12h-rep1	51,464,381	91.88	74.08
293FT _let-7b-12h-rep2	23,167,851	93.80	45.51
293FT _let-7b-32h-rep1	55,993,539	90.39	72.14
293FT _let-7b-32h-rep2	19,824,065	91.03	53.69
LLC-MK2_mock-rep1	11,439,785	89.63	67.68
LLC-MK2_mock-rep2	11,633,984	89.62	67.70
LLC-MK2_NC-32h-rep1	9,177,301	87.22	66.64
LLC-MK2_NC-32h-rep2	9,356,480	87.19	66.65
LLC-MK2_let-7a-32h-rep1	8,551,711	94.28	71.33
LLC-MK2_let-7a-32h-rep2	8,440,910	94.32	71.32
LLC-MK2_let-7b-32h-rep1	11,853,145	92.54	69.90
LLC-MK2_let-7b-32h-rep2	11,570,514	92.50	69.86
CV-1_mock-rep1	11,698,547	82.97	69.73
CV-1_mock-rep2	11,547,428	83.57	70.11
CV-1_NC-32h-rep1	7,305,436	82.09	67.00
CV-1_NC-32h-rep2	7,532,426	81.92	66.87
CV-1_let-7a-32h-rep1	11,285,902	84.97	70.70
CV-1_let-7a-32h-rep2	11,388,888	84.97	70.67
CV-1_let-7b-32h-rep1	8,382,903	84.54	71.01
CV-1_let-7b-32h-rep2	8,340,124	84.55	70.99
NRK_mock-rep1	10,100,682	92.85	57.43
NRK_mock-rep2	10,283,414	92.82	57.46
NRK_NC-32h-rep1	10,232,835	93.92	54.22
NRK_NC-32h-rep2	18,770,931	94.38	61.99
NRK_let-7a-32h-rep1	28,231,775	91.54	47.64
NRK_let-7a-32h-rep2	38,518,472	91.59	56.56
NRK_let-7b-32h-rep1	21,582,629	94.69	60.98
NRK_let-7b-32h-rep2	21,034,315	93.22	56.49

Table S6. Summary of mRNA-seq data in the cellular transfection experiments in this study

ID	Oligo sequence (5'-to-3')
ACTB-F	GCCAACCGCGAGAAGATGA
ACTB-R	CCAGAGGCGTACAGGGATAG
EIF4G2-F	GGTGGCAGCTGCTGAGTT
EIF4G2-R	CGGCTTGACAACGAAGAATC
TIMM17B-F	ACTATGGGTGTCATCGGTGG
TIMM17B-R	TCCTCACAGCATTGGCACTA
SLC25A4-F	AGAGGGTCAAACTGCTGCTG
SLC25A4-R	CCCTGCTCCTTAGGGATTCT
MAPK6-F	TCGATGAGTCGGAGAAGTCC
MAPK6-R	TAGTGATCAGGTGGCTCCAG
USP38-F	ATGCAAGTATGACCCAAGCC
USP38-R	CAGTCCTTTCAGGAGTGCAA
IGDCC4-F	TTGACCTTCTGCCTGTTGG
IGDCC4-R	CAGGATCACTTGCAGTGGC
DCR1-F	CTGAAACTGCAACGGACCTG
DCR1-R	GCCCACTTCTGTCAGTAAATGG
TMEM8A-F	AAACACCGTCCATGATGC
TMEM8A-R	CGTTCACACAGGCCACTATG
TARBP2-F	GCCCACCAGCCTAATTTCAC
TARBP2-R	CTTTGAGGTGTTTGAGGGCC
TTLL4-F	GGTGGCCGTGATCTCTAGAA
TTLL4-R	GGGAACGTTGGGAAAGAGAC
PBX2-F	ACATCTATGCTGTCAAGACCG
PBX2-R	GAGAGATTGAAAGAGCCGCC
miR-221-3p-F*	AGCTACATTGTCTGCTGGGTTTC
miR-15-5p-F*	TAGCAGCACATAATGGTTTGTG
miR-103a-3p-F*	AGCAGCATTGTACAGGGCTATGA
miR-17-5p-F*	CAAAGTGCTTACAGTGCAGGTAG

Table S7. Primers for qRT-PCR

\* The miRNA reverse primer was included in the Mir-X miRNA First-Strand Synthesis Kit.

ID	Oligo sequence (5'-to-3')
EIF4G2-F	AAGGAAAAAAGCGGCCGCAGAACCAGCCAAAGCC
EIF4G2-R	CCGCTCGAGTCACTACATCAAGTATCAC
TIMM17B-F	AAGGAAAAAAGCGGCCGCGGAAGCCACTGCCACCATGG
TIMM17B-R	CCGCTCGAGGGCATTTCAAAACGGGCTTTA
SLC25A4-F	AAGGAAAAAAGCGGCCGCTGTAATTAAA ACACAAGTTC ACAG
SLC25A4-R	CCGCTCGAGCCACCTCTGCCTCCCAAAGT
MAPK6-F	AAGGAAAAAAGCGGCCGCAACACTCAGCAGACATTT
MAPK6-R	CCGCTCGAGTGTATTTGCTGGCCATG
USP38-F	AAGGAAAAAAGCGGCCGCTCCTGAGAGAGTCCAAAATG
USP38-R	CCGCTCGAGCATCAGATTTTACTTCTGG
IGDCC4-F	AAGGAAAAAAGCGGCCGCTAGTGTTCTGTCTCCCAG
IGDCC4-R	CCGCTCGAGTCAAGTCAAGCCTCACAGG

# Table S8. Primers for luciferase reporter assays

## **Supplementary Figures**

#### A Homo-seed family (let-7)

#### Guide (5p)

UGGGA <u>UGAGGUAGUAGGUUGUAUAGUU</u> U-UAGGGUCACACCCACCACCACUGGGAGAUAACUAUACAAUCUACUGUCUUUCCUA
UG <u>A</u>
A. C
CUC
U.UGCUGCU-AU.G
UCA.AG
CUC.ACCCCC
CC.A <b>A</b>
UCAAG
GCAUCCUAGUGGAGCC.UGUGGU.AGUGGAGC
CCCCGGCAGGGAGGAACAC.ACGGCCAGCCAGG
AGGAUUCUGCUCAUGCCAG

#### B Hetero-seed family (mir-188)

Guida	(5n)	
Guide	JU	

<u>hsa-mir-188</u>	UGCUCCCUCUCUCACAUCCCUUGCAUGGUGGAGGGUGAGCUUUCUGAAAACCCCUCCCACAUGCAGGGUUUGCAGGAUGGCGAGCC
<u>hsa-mir-660</u>	CUC <u>U.CAAUCU</u> .AACAUGUGU.A.A.AUUGUCAUCGUG
<u>hsa-mir-532</u>	CGACUUUCUC <u><b>GAGUACC</b>UGA.CU.A.UUCCACA.AAU</u>

#### C Homo-hetero-seed family (mir-17)

	Guide (5p)
<u>hsa-mir-93</u>	CUGGGGGCUCCAAAGUGCUGUUCGUGCAGGUAGUGUGAUUACCCAACCUACUGCUGAGCUAGCACUUCCCGAGCCCCCGG
<u>hsa-mir-106b</u>	CCCGG. <u>U</u>
<u>hsa-mir-20b</u>	A.UA
<u>hsa-mir-20a</u>	UAA. <u>U</u>
<u>hsa-mir-106a</u>	-CCUCCAUGUAUACACU.UU.GG.UAAU.UAUUACAUUAAUGG-
<u>hsa-mir-17</u>	GUCAGAAUAAUGU
<u>hsa-mir-18a</u>	U.U <u>UGAUC.AA</u> AAG.AGAUUAGC.UCCUAAGUU.C.U.U.GCA
<u>hsa-mir-18b</u>	U.UGUUGAUC.AUAAGCAG.UUAGUCCUAAAUC.C.U.U.GCA

#### D Convergence (mir-21 and mir-590)

	Guide (5p)
<u>hsa-mir-21</u>	UGUCGGG <mark>UAGCUUAU</mark> - <mark>CAGACUGAUGUUGA</mark> CUGUUGAAUCUCAUGGCAACACCAGUCGAUGGGCUGUCUGACA
<u>hsa-mir-590</u>	UAGCCAA.AAAU <u>GU.U.AAAGCA.</u> UAGGUCACUGU.AUUUUA.GUAAAGUCUUGAAACAUGCAGCA

#### Figure S1. Examples of DmiR family of different categories (A-C) and convergence (D).

(A) let-7 is a homo-seed family in which all miRNAs share common seed (GAGGUAG).

(B) mir-188 is a hetero-seed family that all three miRNAs in this family have distinct seeds

(*miR-188-5p*: AUCCCUU; *miR-660-5p*: ACCCAUU; *miR-532-5p*: AUGCCUU).

(C) mir-17 family is a homo-hetero-seed (HH-seed) family. Eight different miRNAs share three

distinct seeds (miR-17-5p/20a-5p/20b-5p/93-5p106a-5p/106b-5p: AAAGUGC; miR-18a-5p

/18b-5p: AAGGUGC).

(D) mir-21 and mir-590 are not homologous in the precursor sequences but miR-21-5p and miR-590-5p share the same seed (AGCUUAU) due to convergent evolution. For each set of miRNAs, the sequence alignments of the precursors are shown. The mature sequences (guide strands) are in bold, and the seed sequences are in the red.





dme-miR-34-5p	. UGGCAGUGUGGUUAGCUGGUUGUG
hsa-miR-34a-5p	.UGGCAGUGUC.UUAGCUGGUUGU.
hsa-miR-34c-5p	.AGGCAGUGUAGUUAGCUGAUUGC.
hsa-miR-34b-5p	UAGGCAGUGUCAUUAGCUGAUUG
	*****

**Figure S3. Shifting of the seed sequence in** *mir-34* **family**. The seed of *dme-miR-34* and *has-miR-34a/34c* is GGCAGUG, whereas the seed of *has-miR-34b* is AGGCAGU due to one nucleotide shift. The *dme-miR-34* (from *D. melanogaster*) serves as outgroup and represents the ancestral state.



Figure S4. Paralogous miRNAs that have different seeds share a very low fraction of target genes in common. The *x*-axis is a distinct miRNA family, and the *y*-axis is the boxplot for the percentage (%) of the target sites shared between two paralogous miRNAs divided by the mean number of target sites for the two miRNAs. The target sites were predicted with TargetScan Context++ Score < -0.3.





h0

			~~	~ .	~-		~ .					~~
	AACAGTC	mir-132	58	120	281	468	526	308	175	188	109	122
	AAGGCAC	mir-124	292	596	450	493	452	303	141	150	77	114
	AAGTGCT	mir-302	132	282	524	1361	1835	954	476	345	296	264
	AATGCCC	mir-365	39	72	288	426	487	255	155	152	61	100
	ACAGTAC	mir-101	139	150	277	379	456	279	152	158	86	122
	ACATTCA	mir-181	232	341	739	1084	1028	559	296	236	157	211
	ACTGGCC	mir-193	17	74	254	440	552	345	178	173	101	133
	AGCACCA	mir-29	147	501	541	577	562	325	190	174	106	124
	AGCAGCA	mir-15	213	509	954	1275	1132	578	320	300	167	224
	AGCCCTT	mir-129 (3p)	45	220	341	587	568	360	177	191	81	116
	AGGTAGT	mir-196	46	142	230	365	401	260	115	117	81	89
	AGTGCAA	mir-130	222	231	374	542	733	399	230	201	165	166
ดิ	ATGGCTT	mir-135	111	321	372	612	672	397	197	200	103	147
4	ATTGCAC	mir-25	185	162	219	317	536	438	223	232	222	156
ŝ	CACAGTG	mir-128	128	316	437	790	1065	730	434	453	292	380
i≡	CAGTAGT	mir-199 (3p)	78	100	176	329	441	264	124	133	75	136
Ē	CAGTGCA	mir-148	138	178	356	581	689	392	221	248	141	210
a,	CCAGTGT	mir-199 (5p)	59	146	321	546	653	375	238	235	136	180
2	CTTTGGT	mir-9	215	435	473	589	475	278	139	135	93	84
Ē	GAGAACT	mir-146	7	69	301	550	657	381	210	194	130	144
ົ	GAGGTAG	let-7	120	385	267	322	378	196	110	145	103	125
5	GATATGT	mir-190	21	37	157	235	351	251	185	135	93	111
ě	GCAGCAT	mir-103	72	189	367	511	595	369	208	209	135	168
ŝ	GCTACAT	mir-221	62	88	200	343	408	244	112	127	71	101
ò	GCTGGTG	mir-138	45	190	375	569	744	363	232	251	137	175
E	GGAAGAC	mir-7	47	171	297	546	634	361	208	235	120	172
우	GGAATGT	mir-1	101	189	355	525	605	309	174	183	93	107
÷.	GGCTCAG	mir-24	35	216	530	880	926	478	282	286	141	185
	GTAAACA	mir-30	276	395	560	707	686	318	191	195	118	137
	GTAACAG	mir-194	26	96	226	430	507	336	182	228	103	143
	GTGCAAA	mir-19	265	295	468	541	523	292	159	162	99	124
	TAAGACG	mir-208	3	4	9	20	35	54	55	73	51	57
	TCAAGTA	mir-26	133	224	397	498	586	298	177	151	103	105
	TCACAGT	mir-27	189	353	481	636	730	454	226	240	125	200
	TCACATT	mir-23	154	312	732	974	1049	524	266	253	148	204
	TCCCTTT	mir-204	62	186	683	1023	1029	544	264	238	129	171
	TGACCTA	mir-192	11	55	160	298	350	224	94	126	62	71
	TGCATAG	mir-153	158	133	180	251	371	216	125	121	82	106
	TGCATTG	mir-33	25	61	204	332	473	263	173	156	84	154
	TGTGCTT	mir-218	137	356	480	642	664	363	186	185	95	112
	TTGGTCC	mir-133	69	159	214	317	325	199	92	96	42	72
	TTTTGC	mir-129 (5p)	35	132	544	876	859	538	268	235	159	196

Figure S5. The evolutionary dynamics of canonical target sites in the branches leading to extant humans for the broadly conserved SCUmiRs (30 miRNAs) and homo-seed DmiR families (42 families). (A) The average gains and losses of canonical target sites per seed in the branches leading to extant humans. The numbers of gain and loss events in each branch are in blue and red, respectively. The branch is named the same as in Fig. 4B. (B-C) the detailed net-gained target sites for each SCUmiR (B) and homo-seed DmiR family (C). Only the target sites with perfect seed matching (7mer-m8 and 8mer in TargetScan) were considered in the analysis. The number of target sites in branch b0 is the target sites that are ancient and conserved in all the 16 species.





(A-B) The distribution of type target sites; The boxplot of canonical target sites (7mer-m8, A; and 8mer, B) of the homo-seed DmiRs and SCUmiRs.

(C-D) The numbers of canonical target sites are significantly higher for the conserved homo-seed DmiRs than the SCUmiRs in the (C) CLASH and (D) CLEAR datasets.

(E) The average numbers of target sites that originated in the branches (b1-b9) and conserved in extant humans. For each branch, a WMW test was used to test whether there is a significant difference in the numbers of target sites for a homo-seed DmiR family and a SCUmiR (\*, P < 0.05; \*\*\*, P < 0.001). The number of target sites in b0 is the target sites (*per* seed) that are ancient and conserved in all the 16 species. The bars represent the standard errors. N.S., not significant; \*, P < 0.05; \*\*\*, P < 0.01; \*\*\*, P < 0.001.



Figure S7. The proportion of target sites that were gained in the ancient branches but eventually lost in the offspring branches.

(A) The proportion of target sites gained in a branch [b1 to b6 as defined in (B)] but eventually lost in the offspring branches leading to extant humans. The proportion was calculated as the number of target sites that eventually got lost out of the total number of target sites originated in that branch. For each branch, a WMW test was used to test whether the proportion was statistically significantly different between SCUmiRs and homo-seed DmiR families (\*, P < 0.05). The average proportion and the standard errors are given.

(**B**) Boxplot of the proportions of target sites that originated in branches b1-b6 (combined) but eventually lost in extant humans for the homo-seed DmiRs and SCUmiRs.



### Figure S8. The duplicated miRNAs in the *let-7* family are broadly conserved in vertebrates.

(A) Phylogenetic tree of the vertebrate let-7 family of miRNAs based on the mature sequences;

(B) Mature sequences alignment of *let-7a*;

(C) Mature sequences alignment of *let-7b*. (gga: chicken; xtr: frog; rno: rat; mmu: mouse; mdo:

opossum; cfa: dog; bta: cow; mml: rhesus; ptr: chimpanzee; has: human).





# Figure S9. Expression divergence between let-7a and let-7b in tissues and cell lines across species.

(A) Expression profile of members of the *let-7* family and the top 20 most abundant miRNAs in the 293FT (human), CV-1 (green monkey) and NRK (rat) cell lines (left). The relative expression abundance of *let-7a* and *let-7b* in the three cells lines is presented in the right panel.

(B) Expression profile of let-7 family members and the top 20 most abundant miRNAs in the human, macaque and mouse kidney (left). The relative expression abundance of let-7a and let-7b in the human, macaque and mouse kidney is presented in the right panel.



Figure S10. Scatter plots depicting correlations in gene expression between replicates under all tested conditions. The expression of all genes was well correlated between biological replicates (293FT and NRK) and technical replicates (LLC-MK2 and CV-1). "Mock" indicates cell lines treated with transfection reagent without any small RNA sequences; "NC" represents cell lines transfected with a small RNA duplex as the negative control; "*let-7a\_32h*" and "*let-7b\_32h*" represent cells transfected with *let-7a* or *let-7b*, respectively, for 32 h.



**Figure S11. Transcriptome sequencing of** *let-7a* and *let-7b* transfected human cell lines (293FT). (A) The fold change (log.) of mRNA abundance in 293FT cells transfected with *let-7a* relative to *let-7b* after 12 h or 32 h. Green represents genes that showed significant changes in mRNA levels (FDR of 0.05), and black indicates all genes that showed changes in mRNA levels. (B) Venn diagram showing the number of genes with significantly up-regulated or down-regulated mRNA expression that were common or unique after 293FT cells were transfected with *let-7a* or *let-7b* for 12 h or 32 h.



**Figure S12. Transcriptome sequencing of** *let-7a* **and** *let-7b* **transfected macaque (LLC-MK2), green monkey (CV-1) and rat (NRK) cell lines.** (A) The fold change (log<sub>2</sub>) of mRNA abundance in *let-7a*-transfected MK2 (macaque), CV-1 (green monkey) and NRK (rat) cell lines relative to *let-7b*-transfected cells after 32 h. (B) Venn diagram demonstrating the number of genes with significantly up-regulated or down-regulated mRNA expression that were common or unique after the cells were transfected with *let-7a* or *let-7b* for 32 h.



Figure S13. Experimental verification of *let-7a* and *let-7b* target repression by qRT-PCR and luciferase reporter assay.

(A) qRT-PCR results verified the down-regulation of target genes after transfection of human 293FT cells with *let-7a* (black) or *let-7b* (white). Statistically significant differences in the repression efficiency between *let-7a* and *let-7b* for each gene are indicated with asterisks (\*, P < 0.05, \*\*, P < 0.01, Kolmogorov-Smirnov test). Cells transfected with a negative control small RNA (NC) were used as controls (gray).

(B) qRT-PCR results verified the down-regulation of target genes in the *let-7a* (black) or *let-7b* (white) transfection experiments (32 h post-transfection) for macaque (left) and green monkey (right). Error bars represent the standard error among 3 replicates. Statistically significant differences between *let-7a* and *let-7b* are indicated by asterisks (\*\*, P < 0.01, Kolmogorov-Smirnov test).

(C) Luciferase reporter assay results verified the repression of target genes of *let-7a* (black) and *let-7b* (white) in human 293FT cells. The y-axis shows the relative luminescence of the luciferase reporter gene fused to 3' UTR fragments with canonical target sites (+) relative to genes with mutant sites (-). Statistically significant differences in repression efficiency for the target sites between *let-7a* (black) and *let-7b* (white) are marked with asterisks (\*\*P < 0.01, Kolmogorov-Smirnov test)



Figure S14. Changes in the mRNA abundance (y-axis) of the conserved canonical target genes (seed pairing) that are paired (seed & 17 nt paired) or not paired (seed & 17 nt unpaired) to position 17 of *let-7a* (left) or *let-7b* (right) in the cellular transfection experiments. The genes without any site complementary to the seed sequence of *let-7a/b* were used as controls (\*, P < 0.05; \*\*, P < 0.01, \*\*\*, P < 0.001; Wilcoxon test).



В

		8mer						
IGF2BP1	5'	UGUGUGCGAAGUAAA <b>CUACCUCA</b>	3'					
let-7b-5p	3'	UUGGUGUGUUGGAU <mark>GAUGGAG</mark> U						
		7mer-m8						
IGF2BP1	5'	UCACUUUUGUUUUAU <b>CUACCUC</b> U	3'					
let-7b-5p	3'	UUGGUGUGUUGGAU <mark>GAUGGAG</mark> U	5'					
		7mer-A1						
IGF2BP1	5'	CUCAAGGUAUGAAGU <b>UACCUCA</b> G	3'					
let-7b-5p	3'	UUGGUGUGUUGGAU <mark>GAUGGAG</mark> U	5'					

Figure S15. Birth and death of *let-7* canonical target sites during mammalian evolution.

(A) The gain and loss of *let-7a/b* canonical target sites in the branches leading to extant primates. The numbers of gain and loss events are in blue and red, respectively. All the three types of target sites that are complementary to the seed of *let-7* (8mer, 7mer-m8 and 7mer-A1) are presented.
(B) Examples show the definition of three types of canonical target site. IGF2BP1 is a target gene of *let-7* family, which harbors all the three types of target sites on its 3'UTR.



Figure S16. Changes in the mRNA abundance of genes with ancient or newly emerged target sites in human, macaque and green monkey cells transfected with *let-7a*.  $P_{cr}$  represents target genes of *let-7a* predicted by TargetScan ( $P_{cr} > 0.8$ ). The genes with target sites originating in a branch and maintained thereafter were used in the analysis. If a gene had multiple target sites of different ages, the gene was assigned to the most ancient class. The genes without any site complementary to the seed sequence of *let-7a/b* (N.S., no sites) were used as controls (\*, P < 0.05; \*\*, P < 0.01, \*\*\*, P < 0.001; Kolmogorov-Smirnov test).



Figure S17. The observed numbers of the orthologous target genes of *let-7a/b* between humans and other mammalian species are significantly higher than the numbers obtained under the assumption of randomness. For each comparison, the distribution of the simulated numbers of target genes down-regulated in both humans and other species is shown in black, and the observed value is in red. The simulated numbers were obtained based on random sampling the same numbers of genes in the gene expressed in each species and counting the over-lapping genes. 1000 replicates were conducted in each simulation.



Figure S18. The mRNA expression changes for orthologous target genes of *let-7a/b* are weakly correlated between humans and other mammalian species in both the *let-7a* (red) and *let-7b* (blue) experiments. The three groups are human versus macaque, human versus green monkey, and human versus rat.





(A) Target sites based on seed perfect pairing (8mer and 7mer-m8 in TargetScan);

**(B)** All canonical target sites (8mer, 7mer-m8 and 7mer-A1 in TargetScan). The numbers of gain and loss events in each branch are in blue and red, respectively.

30



Figure S20. The numbers of target sites are higher for the broadly conserved Convergence

miRNAs than the SCUmiRs (\*\*, *P* < 0.01; \*\*\*, *P* < 0.001; WMW test).

- (A) Boxplot of the numbers of conserved target sites (TargetScan  $P_{cr} > 0.5$ ).
- (B) Boxplot of the numbers of target sites with Context++ Score < -0.3.



Figure S21. Seeds shared by multiple broadly conserved miRNAs pair higher numbers of conserved target sites ( $P_{cr} > 0.5$ ) than those of the single-copy miRNAs. Only the seeds of the broadly conserved miRNAs were considered (\*\*\*, P < 0.001, WMW test).



Figure S22. The numbers of non-canonical target sites bound by each miRNA member in ten representative miRNA families in the CLASH HEK-293T cell dataset (A) and the CLEAR mouse brain dataset (B).



Figure S23. The putative non-canonical target sites in 3' UTRs recognized by *let-7a* or *let-7b*. (A) The fraction of each nucleotide in *let-7a* and *let-7b* that is paired to the putative target sites out of all the possible targets in human 3' UTRs. RNAhybrid was used to predict the target sites with the default parameter settings. Perfect pairing between the *let-7a/b* seed sequence and target sites was not required in the analysis.

(**B**) The heatmaps of the putative target sites that are paired to the 5' end (position 2-8), center (9-16) and 3' end (17-21) of *let-7a* or *let-7b*. In each of the four species, the putative target sites that are associated with mRNA destabilization in each experiment are presented (detailed numbers are presented in parenthesis).

(C) The fraction of predicted target sites (5' end, center, or 3' end) of *let-7a* or *let-7b* in human (H), macaque (M), green monkey (G) and rat (R). For target sites of each category, Fisher's exact test was employed to test whether those target mRNAs were significantly enriched in the down-regulated gene sets in the corresponding transfection experiment (\*, P < 0.05; \*\*, P < 0.01; \*\*\*, P < 0.001).