

**Supplementary Table 1. Comparison of main features of MCL patients from the different studied series**

	<b>Leukemic MCL (N=30)</b>	<b>Leukemic and spleen MCL (N=29)</b>	<b>Lymph node MCL (N=50)</b>
Median age (range)	68 (45-88)	66 (35-89)	61 (39-82)
Ratio Male/Female	22/8	21/8	36/8
<b>Clinical and pathological data</b>			
Nodal presentation (lymph nodes >1cm)(%)	15/28 (54)	20/29 (69)	41/43 (95)
Splenomegaly (%)	14/26 (54)	19/27 (70)	21/42 (50)
WBC count >10x10 <sup>9</sup> /L (%)	12/18 (67)	12/14 (86)	26/41 (63)
High serum LDH (%)	4/19 (21)	7/13 (54)	16/35 (46)
<b>Evolutive data</b>			
Median follow-up, months (range)	50.5 (0.3-149.3)	24.6 (2.3-112.8)	40 (7.8-247)
Chemotherapy at any time (%)	24/30 (80)	23/29 (79)	43/43 (100)
Median time to treatment, months	2.33	1.16	0.7
3-year overall survival, %	71	52	61
<b>Molecular data</b>			
<i>IGHV</i> gene homology ≤98 (%)	17/30 (57)	20/31 (64)	6/19 (32)
<i>SOX11</i> high expression ≥6.4 (RU)	15/30 (50)	22/31 (71)	16/18 (89)
Copy number alterations			
Median number	2	10	6
0-1 imbalance	10/23 (43)	3/29 (10)	1/15 (7)
2-4 imbalances	4/23 (17)	4/29 (14)	2/15 (14)
≥5 imbalances	9/23 (39)	22/29 (76)	13/15 (87)

Abbreviations: LDH: lactate deshydrogenase; N: number; RU: Relative Units of Expression; WBC: white blood cell

**Supplementary Table 2. Normalized expression in miRs with SD variation higher than 50th percentile and detectable expression >25% of cases**

<b>ID</b>	<b>MCL1</b>	<b>MCL2</b>	<b>MCL3</b>	<b>MCL4</b>	<b>MCL5</b>	<b>MCL6</b>	<b>MCL7</b>	<b>MCL8</b>	<b>MCL9</b>	<b>MCL10</b>	<b>MCL11</b>	<b>MCL12</b>	<b>MCL13</b>	<b>MCL14</b>	<b>MCL15</b>
hsa-let-7a*	2.72	2.55	2.27	0.66	1.30	1.69	2.35	2.04	1.69	1.84	2.21	2.13	1.71	2.17	1.75
hsa-let-7e*	-0.75	-2.12	-2.15	-2.10	-2.00	-1.55	-0.66	-2.19	-0.70	-2.11	0.32	-2.18	0.24	-1.96	0.00
hsa-let-7f-1*	2.11	0.09	0.00	0.00	0.73	0.00	0.00	0.00	0.05	0.00	0.00	0.62	0.00	0.32	0.00
hsa-let-7f-2*	1.80	1.34	1.30	0.00	0.00	0.84	1.28	0.53	1.17	1.55	0.67	1.29	1.23	2.41	1.13
hsa-miR-1	-0.13	-1.85	-0.81	-2.71	-2.61	-2.74	-2.88	-0.07	-0.37	-0.29	-0.80	-0.01	0.62	0.58	0.31
hsa-miR-100	-0.18	-1.29	-1.48	-1.22	0.14	-0.65	-2.45	-1.29	-0.93	-0.70	-0.55	-0.55	0.49	-0.13	-0.49
hsa-miR-100*	1.34	0.68	0.62	0.00	0.97	0.18	0.00	0.06	0.00	0.00	0.56	1.54	1.09	0.00	0.00
hsa-miR-101*	1.89	2.16	2.83	2.12	1.67	1.15	1.83	2.13	1.40	2.02	2.13	2.23	0.37	2.58	1.61
hsa-miR-106b*	2.48	1.68	1.63	0.87	1.36	1.13	1.74	1.56	1.56	1.30	1.59	1.74	1.82	1.74	1.36
hsa-miR-107	0.15	-0.92	-0.99	-1.94	-1.70	-0.73	-0.67	-0.72	-0.99	-0.38	-0.86	-0.05	0.03	0.30	-0.25
hsa-miR-10a	-1.39	-1.22	-1.52	-1.76	-1.21	-2.19	-4.76	-1.64	-1.11	-1.17	-0.78	-1.13	-1.38	-0.77	-0.43
hsa-miR-10a*	1.24	1.54	1.01	0.17	1.67	0.95	1.58	0.22	0.54	1.62	0.50	0.00	0.00	1.56	1.37
hsa-miR-10b*	0.18	0.45	-0.04	-0.21	0.55	-0.04	-0.05	0.22	-0.23	0.12	-0.02	-0.24	-0.48	0.33	-0.06
hsa-miR-122	-2.57	-3.56	-2.47	-3.50	-3.40	-3.53	-3.67	-1.60	-3.68	-3.66	-3.56	-3.70	-3.46	-3.51	-3.33
hsa-miR-124	-0.26	-0.03	0.88	0.23	1.01	-0.68	0.35	0.30	0.24	0.60	0.11	1.05	0.34	1.21	-0.37
hsa-miR-125a-3p	-0.57	-1.10	-2.88	-2.84	0.10	-1.36	-0.83	-3.01	-1.31	-0.56	-2.05	-0.47	-0.57	0.37	-2.67
hsa-miR-125a-5p	0.00	-0.91	-1.65	-1.50	0.22	-0.46	-0.02	-0.70	-0.25	0.26	-0.27	0.24	0.42	0.59	0.09
hsa-miR-125b	0.02	-1.64	-1.86	-1.78	-0.24	-0.68	-4.60	-0.92	-0.71	-0.59	-0.78	-0.48	0.24	-0.16	-0.48
hsa-miR-126	-0.35	1.02	0.21	0.86	1.21	0.47	0.61	1.73	1.43	1.95	1.48	1.87	2.53	2.68	2.24
hsa-miR-126*	-0.21	0.81	0.07	0.62	1.10	0.09	1.09	1.49	1.34	1.87	1.43	1.73	2.38	2.58	2.07
hsa-miR-127-3p	-0.58	0.36	0.12	-3.09	0.16	-1.02	-1.02	0.97	0.90	0.90	0.87	1.56	1.20	1.45	1.25
hsa-miR-129-3p	-1.24	-1.21	3.21	-1.15	-1.05	-1.18	-1.32	-1.32	-1.33	-1.31	-1.21	-1.35	0.16	-1.16	-0.98
hsa-miR-130a	1.73	0.86	-0.19	-0.01	0.71	0.38	0.31	0.65	0.43	0.74	0.86	1.30	1.30	1.32	0.93
hsa-miR-130b*	0.13	-0.52	-0.86	-0.26	-0.72	-0.20	-0.45	-0.82	-0.57	-0.29	0.27	0.46	-0.11	0.08	-0.48
hsa-miR-132*	-0.08	-1.75	-0.18	-2.28	-0.79	-0.77	-0.46	-2.37	-2.34	-2.29	-2.21	-2.36	-0.44	-2.14	-1.94
hsa-miR-133a	0.37	-0.16	-1.88	-2.01	-1.24	-1.11	-0.92	-1.04	-0.72	-0.45	-1.00	-0.39	0.18	0.05	-0.31
hsa-miR-133b	0.30	-0.45	-1.54	-2.87	-2.77	-2.90	-2.17	-2.97	-2.42	-1.17	-0.36	-0.47	-0.03	-0.20	-1.26
hsa-miR-134	0.00	0.00	0.16	0.00	0.00	0.00	0.00	2.45	0.20	1.12	1.20	2.03	1.92	2.70	2.60
hsa-miR-135a	0.58	0.32	0.44	0.16	0.68	-0.18	0.39	0.10	-0.36	0.12	0.21	1.02	0.21	0.67	-0.33
hsa-miR-135b	-0.26	-0.39	-0.72	-0.86	0.27	-0.27	-0.57	-0.71	-0.33	-0.13	-0.02	0.43	-0.57	0.10	-0.20

hsa-miR-136	-2.16	0.45	0.71	-2.06	0.35	0.16	-1.53	0.39	-2.25	-0.71	-1.16	-0.77	-0.91	-0.90	0.41
hsa-miR-136*	0.46	1.57	1.71	0.96	1.40	0.00	0.57	2.41	2.33	2.36	2.31	3.49	2.41	2.98	2.59
hsa-miR-138	-1.73	-1.67	-0.14	0.67	-0.71	-0.66	-0.77	-1.50	0.09	-1.72	-1.90	1.15	-0.57	0.81	-1.44
hsa-miR-138-2*	0.00	0.00	0.76	2.35	0.00	0.35	0.06	0.00	0.54	0.20	0.00	2.54	0.00	2.92	0.00
hsa-miR-139-5p	0.75	0.68	0.40	0.86	0.53	0.78	0.27	0.78	0.56	0.87	1.15	0.98	1.52	1.64	1.15
hsa-miR-141	0.40	1.29	0.81	0.77	0.95	0.55	1.91	0.44	0.55	0.43	1.13	1.84	0.12	1.69	0.31
hsa-miR-141*	1.44	1.99	1.73	1.51	1.67	1.63	2.55	0.99	1.65	1.78	2.16	2.37	0.59	2.44	0.00
hsa-miR-143	0.25	-0.23	0.26	-0.90	0.20	-0.70	0.27	0.46	0.14	0.80	0.67	0.28	1.10	1.47	1.06
hsa-miR-144*	-0.24	-0.03	-0.46	-0.69	0.28	0.37	-0.02	0.20	-0.23	0.23	0.77	0.30	0.00	0.43	1.22
hsa-miR-145	0.10	0.90	0.66	0.13	1.33	0.85	-0.53	1.31	-0.02	0.75	1.37	0.33	1.47	1.86	1.75
hsa-miR-145*	0.21	2.00	0.00	0.10	1.30	1.43	1.66	0.00	0.34	1.31	0.90	0.00	1.97	2.70	1.35
hsa-miR-146a	0.76	0.57	0.44	-0.61	-0.12	0.15	0.74	0.24	-0.25	0.39	0.02	-0.28	0.38	0.11	-0.20
hsa-miR-146a*	2.75	1.69	0.00	0.00	0.00	1.49	0.00	0.00	0.00	2.02	0.00	0.52	2.00	0.00	1.69
hsa-miR-146b-3p	-0.51	-0.28	-0.25	-0.98	0.21	0.01	-0.17	-0.18	-0.12	-0.31	0.18	0.23	0.05	0.55	-0.12
hsa-miR-146b-5p	0.04	-0.10	-0.32	-0.79	0.26	-0.03	0.16	0.02	0.10	0.09	0.21	0.52	0.21	0.81	0.08
hsa-miR-148a	0.31	-0.52	-1.46	-0.44	-0.15	0.18	0.09	-0.09	-0.86	-0.56	-0.78	-0.29	-0.14	-0.24	-0.20
hsa-miR-149	1.90	0.38	-1.58	2.34	-1.43	1.56	-1.70	0.07	-1.71	-1.69	0.73	1.56	-0.29	-0.82	-1.36
hsa-miR-151-3p	-0.10	-0.44	-0.59	0.00	0.01	-0.45	-0.94	-0.23	-0.30	-0.57	-0.62	-0.36	0.01	-0.12	-0.11
hsa-miR-152	-0.24	-0.91	-0.89	0.12	-0.40	-0.53	-0.76	-0.60	-0.57	-0.18	-0.33	0.06	-0.18	0.38	-0.26
hsa-miR-155*	0.73	0.15	0.70	-0.07	0.19	0.06	0.25	0.34	0.63	0.07	1.03	0.39	0.05	-0.93	0.10
hsa-miR-15b*	1.45	0.68	0.83	0.18	0.51	0.92	0.70	0.16	0.28	0.65	1.17	1.24	0.68	1.06	0.30
hsa-miR-17*	2.34	1.95	2.06	2.30	2.43	2.16	2.58	1.96	2.23	2.30	2.75	2.60	2.32	2.26	2.02
hsa-miR-181a	0.39	-0.19	-0.25	-0.22	-0.05	-0.20	-0.08	-0.01	-0.11	-0.14	-0.20	0.00	0.16	0.20	-0.32
hsa-miR-181a*	-0.21	-0.64	-1.78	-0.45	-0.77	-0.97	-1.70	-0.54	-0.18	-0.06	-0.38	0.26	0.15	0.42	-0.53
hsa-miR-181a-2*	1.23	0.18	-0.02	-0.17	-0.04	0.12	0.45	0.30	0.09	0.05	0.15	0.20	0.42	0.40	-0.44
hsa-miR-181c	0.40	0.05	0.06	-0.29	-0.07	-0.11	-0.11	0.02	-0.58	-0.15	-0.33	-0.07	-0.18	0.09	-0.20
hsa-miR-181c*	3.89	2.89	2.64	0.27	0.00	0.00	3.14	1.28	1.19	2.66	0.39	2.27	0.43	2.37	0.00
hsa-miR-182	3.86	3.45	4.12	3.88	3.03	3.28	2.29	3.53	1.46	0.25	2.91	2.95	1.88	1.82	2.96
hsa-miR-183	2.94	2.94	3.38	3.27	2.43	2.49	2.08	2.95	0.61	0.00	1.85	2.31	1.18	0.54	1.30
hsa-miR-183*	3.98	2.65	3.44	3.36	2.42	2.34	2.98	2.95	1.08	0.00	1.53	3.74	1.63	1.61	0.87
hsa-miR-184	0.72	0.06	-0.39	0.05	0.37	-0.47	-0.27	-0.21	-0.99	-1.50	-0.78	-0.36	-0.10	-0.43	-0.93
hsa-miR-186*	0.00	0.44	0.68	0.76	1.64	0.27	0.76	0.00	0.43	0.00	0.00	0.35	0.00	0.92	0.00
hsa-miR-18b	0.43	0.88	0.72	1.43	1.35	0.97	0.00	0.77	0.28	0.32	1.14	0.88	0.56	0.57	0.91

hsa-miR-190	2.17	2.84	2.94	3.14	3.25	4.31	1.64	3.78	2.53	1.75	3.35	3.24	2.92	2.04	2.94
hsa-miR-193a-3p	-0.67	0.11	-0.02	0.65	0.81	0.36	0.31	0.24	0.09	0.90	0.71	0.74	-0.03	0.72	0.21
hsa-miR-193a-5p	0.42	0.65	-0.04	0.36	0.51	0.62	0.31	0.49	0.36	0.61	0.68	0.42	0.52	0.45	0.12
hsa-miR-193b	-0.57	-1.50	0.21	-0.40	-0.03	0.03	-0.35	-0.07	0.43	-0.68	0.31	-0.21	-0.08	-0.52	-0.49
hsa-miR-193b*	-1.62	-2.24	0.40	-2.04	-0.93	-0.29	-0.03	0.11	0.61	-1.90	0.29	-0.32	-0.23	-1.17	-0.89
hsa-miR-196b	-0.43	1.30	0.23	2.15	1.52	2.19	0.31	1.71	1.60	1.56	2.96	1.90	1.59	2.32	2.29
hsa-miR-199a-3p	0.62	0.11	-0.12	-0.26	0.31	-0.26	0.09	0.67	0.38	0.83	0.44	0.60	1.36	1.48	1.35
hsa-miR-199a-5p	1.68	0.00	-0.79	-0.74	1.24	-0.77	-0.91	1.86	0.84	2.21	0.90	1.50	2.54	2.84	2.59
hsa-miR-199b-5p	-1.50	-1.37	-2.81	-2.76	-2.31	-2.08	-2.94	-0.58	-0.66	-0.14	-0.79	-0.23	0.21	0.65	0.14
hsa-miR-200a	0.59	1.03	0.37	-0.78	-0.07	0.68	0.12	0.72	0.27	0.44	-0.36	0.37	0.19	0.78	0.72
hsa-miR-200a*	-1.33	-0.49	-0.46	-3.06	-0.06	-0.16	-3.06	-0.51	-0.17	0.16	0.19	-0.27	-0.28	0.08	0.00
hsa-miR-200b	-0.35	0.62	-0.12	-0.70	-0.08	-0.34	0.49	-0.21	-0.44	-0.34	-0.22	0.27	-0.37	0.42	-0.07
hsa-miR-200b*	-0.77	-0.08	-0.57	-3.37	-3.27	-0.62	0.04	-0.55	-0.56	-1.28	-3.30	-0.81	-1.21	-0.49	-0.14
hsa-miR-200c	-0.38	0.84	0.03	0.02	0.39	-0.16	0.99	-0.22	-0.25	-0.42	0.12	0.89	-0.24	0.77	-0.32
hsa-miR-202	-0.35	0.13	0.08	0.06	0.00	-0.20	-1.31	-0.25	-0.42	-0.08	-0.06	-0.72	-0.46	-0.98	-0.14
hsa-miR-203	-1.55	-0.99	-5.18	-0.95	-1.87	-1.38	-1.90	-2.48	-2.35	-2.44	-2.37	-1.93	-1.48	-1.13	-2.09
hsa-miR-204	1.18	-1.10	-2.32	-0.95	-1.91	-0.12	-0.98	-0.21	-1.23	-0.24	-0.30	0.01	1.33	0.27	-0.63
hsa-miR-205	-1.48	-4.18	-4.17	-4.12	-4.03	-4.16	-4.30	-4.30	-4.31	-4.28	-4.19	-4.32	-4.09	-1.41	-3.96
hsa-miR-208	0.44	0.00	0.00	0.00	1.34	1.10	0.34	0.00	2.06	0.46	0.78	0.07	0.00	0.00	0.91
hsa-miR-208b	0.39	0.93	0.23	0.00	0.97	0.08	0.00	0.08	0.96	0.66	0.50	0.54	0.21	0.00	0.63
hsa-miR-208b*	2.83	0.00	0.00	2.84	2.80	2.77	2.38	2.30	2.26	2.27	2.43	3.51	2.84	2.68	1.57
hsa-miR-21*	0.28	-0.62	0.22	-0.39	0.17	-0.54	0.12	0.03	-0.06	0.08	0.42	0.74	-0.41	0.37	-0.25
hsa-miR-211	0.00	0.22	0.00	0.56	0.64	1.53	0.00	0.12	0.00	0.00	0.00	0.24	0.00	0.00	1.29
hsa-miR-212	1.66	1.54	1.40	1.26	0.13	1.79	0.87	1.50	0.72	1.17	1.38	1.15	1.24	1.62	1.54
hsa-miR-214	0.21	-3.79	-2.76	-3.73	-3.63	-3.76	-3.90	-1.81	-3.91	-2.94	-3.06	-1.95	-3.69	-3.74	-0.25
hsa-miR-214*	2.40	0.17	0.67	0.00	0.31	0.00	0.00	0.18	0.00	0.00	0.23	0.10	0.00	0.00	1.48
hsa-miR-216b	-4.20	-4.17	-4.15	-4.10	-4.01	-4.14	-1.31	-4.28	-1.27	-1.08	-4.17	-4.30	-0.56	-4.12	-2.72
hsa-miR-218	0.22	-1.24	-0.71	-0.71	0.73	-0.04	-1.45	-0.39	-0.24	-0.45	0.83	1.21	0.73	0.02	-0.91
hsa-miR-218-2*	0.00	0.06	0.21	0.00	0.18	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.36	0.25	0.53
hsa-miR-219-1-3p	0.00	0.00	0.00	1.15	0.00	0.78	0.27	0.93	0.95	0.17	0.00	1.26	0.00	0.24	0.00
hsa-miR-22	1.61	1.13	1.49	1.18	0.45	0.57	1.07	1.19	1.06	1.27	0.90	1.43	1.28	1.58	1.11
hsa-miR-22*	0.74	0.29	0.33	-0.04	-0.55	-0.36	0.39	0.14	0.13	0.34	0.36	0.23	0.42	0.68	0.17
hsa-miR-221	0.45	-0.66	-0.75	-2.36	-0.90	-0.84	-0.89	-0.33	-0.40	0.02	-0.29	-0.05	0.37	0.52	0.17

hsa-miR-221*	0.74	0.00	0.13	-0.72	-1.64	-1.29	0.16	-0.05	-0.94	-0.05	-0.16	-0.05	0.06	0.19	0.19
hsa-miR-222	-0.08	-0.63	-0.32	-0.77	-1.70	-1.60	-0.71	-0.34	-1.17	-0.46	-0.57	-0.41	-0.49	-0.06	-0.06
hsa-miR-222*	0.10	-0.80	0.19	-1.24	-1.23	-2.22	-0.78	-0.93	-1.45	-0.30	-0.61	-0.29	-0.53	0.26	-0.36
hsa-miR-224	-0.29	-2.17	-3.17	-3.12	0.00	-3.16	-0.53	0.16	-0.56	0.50	-0.88	0.42	0.42	0.76	0.84
hsa-miR-23a*	3.27	2.54	1.96	1.79	1.37	1.26	1.94	1.78	1.71	1.93	2.18	1.82	2.71	2.77	0.00
hsa-miR-25*	1.03	0.50	0.53	0.51	0.92	0.10	0.64	0.55	0.63	-0.17	1.08	0.60	0.74	0.14	-0.07
hsa-miR-26a-1*	0.00	0.00	0.00	0.00	1.68	0.00	0.95	1.57	1.26	1.69	1.08	2.44	2.66	3.12	2.45
hsa-miR-26a-2*	0.04	-0.42	-0.98	-0.35	-0.90	-1.25	-0.76	-0.50	-0.93	-0.22	-0.70	-0.61	-0.35	-0.55	-0.47
hsa-miR-26b	0.25	0.33	-6.82	0.18	0.26	0.27	0.24	0.18	0.22	0.33	0.12	0.07	0.13	0.42	0.24
hsa-miR-27a	1.12	0.26	0.14	0.14	-0.30	-0.11	0.32	0.30	0.33	0.59	0.49	0.75	0.57	1.04	0.44
hsa-miR-27a*	1.33	0.44	0.01	0.20	-0.70	-0.09	-0.12	0.14	0.07	0.33	0.64	0.33	0.98	1.00	0.32
hsa-miR-296-3p	2.15	0.00	1.83	1.32	1.86	2.80	0.56	0.00	1.21	0.86	2.27	1.60	0.00	1.65	0.00
hsa-miR-296-5p	0.23	-0.88	-0.09	-0.04	0.14	0.40	-0.27	-0.53	-0.28	-0.13	0.33	-0.20	0.15	0.46	-0.19
hsa-miR-296-1*	3.38	3.12	2.76	2.41	2.65	2.39	2.42	3.04	1.23	1.88	1.84	1.48	3.44	2.51	2.94
hsa-miR-301b	1.05	0.23	0.00	1.00	0.31	0.76	0.29	0.33	0.46	0.70	0.70	1.35	0.85	1.07	0.73
hsa-miR-302a	-0.62	-2.19	-2.18	-0.29	-2.03	-2.16	0.03	-2.30	-2.31	-0.22	-2.19	0.21	-0.01	-0.08	-1.96
hsa-miR-302c	-2.20	0.24	-1.86	-2.11	-2.01	-2.14	0.07	-2.12	0.26	-0.08	-0.13	0.37	-2.08	0.06	-1.94
hsa-miR-31	-0.60	-0.59	-1.24	-3.73	-0.99	-0.01	-0.60	-0.47	0.87	0.46	0.49	0.69	0.15	1.11	0.53
hsa-miR-323-3p	-1.35	-0.86	-0.79	-1.17	-0.97	-0.92	-1.04	-0.54	-1.29	-0.79	-0.93	-0.09	-0.57	-0.30	-0.26
hsa-miR-324-5p	1.24	0.46	0.49	0.79	0.63	0.90	0.61	0.57	0.69	0.67	0.69	1.12	0.83	0.86	0.50
hsa-miR-326	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.63	0.00	0.25	0.68	0.11	0.54	1.65	1.23
hsa-miR-329	0.00	0.00	0.00	0.67	0.21	0.00	0.00	1.14	0.16	0.43	0.83	1.59	0.97	1.39	1.21
hsa-miR-330-5p	1.68	0.00	0.14	1.75	0.66	0.70	0.43	0.00	0.96	1.66	1.81	2.45	0.00	2.15	0.49
hsa-miR-335	0.53	0.23	-1.02	0.15	-0.22	-0.68	0.22	0.08	-0.27	0.06	-0.64	0.23	0.18	0.05	-0.05
hsa-miR-335*	0.99	0.71	-0.99	0.58	0.22	-0.22	0.53	0.53	0.47	0.41	-1.57	0.96	0.58	0.59	0.48
hsa-miR-337-5p	-0.56	-2.19	-2.18	-2.13	0.41	0.18	0.04	0.27	0.25	0.78	0.36	1.51	0.88	1.03	0.88
hsa-miR-338-3p	3.85	2.27	3.55	1.96	0.00	2.84	3.28	1.76	2.85	2.68	2.39	2.77	2.35	3.11	2.54
hsa-miR-33b	-2.16	-2.13	-2.12	-2.07	-0.99	-2.10	-2.24	-2.24	-2.26	-2.23	-2.13	-2.27	-2.04	0.11	-1.90
hsa-miR-340*	0.95	0.74	0.60	0.55	0.48	0.73	0.80	0.63	0.66	0.65	0.83	1.20	1.00	0.92	0.42
hsa-miR-34a	1.16	0.39	0.90	-0.14	1.06	-0.64	0.95	0.71	0.44	1.24	0.74	-0.12	1.25	0.73	0.40
hsa-miR-34a*	0.97	0.29	0.73	-0.38	0.84	-0.77	0.84	0.65	0.27	0.95	0.43	-0.54	1.14	0.58	0.13
hsa-miR-34b*	1.30	0.00	0.00	1.50	0.00	0.21	0.00	0.00	1.55	1.45	1.64	1.41	0.00	2.07	0.00
hsa-miR-34c-5p	0.81	1.29	1.03	1.77	1.28	0.11	1.46	0.40	1.34	1.72	1.01	0.39	1.34	1.73	0.00

hsa-miR-363	0.39	0.08	-0.13	0.97	1.29	0.82	0.19	0.39	0.15	0.20	0.93	1.09	0.80	0.59	0.48
hsa-miR-363*	-0.26	-0.90	-2.04	0.45	0.69	-0.20	-0.51	-0.06	-0.85	-1.34	0.68	0.56	0.25	-0.01	-0.40
hsa-miR-365	1.02	3.04	3.52	2.84	3.25	3.46	0.38	3.41	1.69	0.04	3.42	1.32	1.27	-0.19	2.89
hsa-miR-367	-0.52	-4.40	-4.22	-2.17	-4.24	-4.37	-0.64	-4.51	-0.84	-0.58	-4.40	-0.75	-0.54	-0.36	-4.17
hsa-miR-369-3p	-2.87	-0.19	-2.82	-2.77	-2.68	-2.81	-2.95	-0.13	-0.99	-0.12	-0.20	0.19	-2.74	0.12	-0.12
hsa-miR-370	0.00	0.46	0.63	0.00	1.42	0.00	0.08	2.56	2.14	2.40	1.68	3.65	2.91	3.50	3.00
hsa-miR-372	-0.69	-0.07	0.10	-0.44	-0.07	-0.35	-0.39	0.59	0.04	-0.49	-0.41	-0.98	-0.73	0.67	0.53
hsa-miR-373	1.64	2.27	1.65	1.69	2.41	1.62	1.69	1.05	1.90	1.22	1.93	0.00	0.99	1.53	2.25
hsa-miR-375	-0.19	-0.91	-1.26	-1.35	-1.21	-0.92	-0.31	-0.79	-1.32	-1.61	-2.09	-1.37	-1.25	-1.13	-0.84
hsa-miR-376a	-0.90	-0.54	-0.73	-1.16	-0.82	-1.01	-1.08	0.18	0.05	0.00	-0.17	0.88	0.33	0.87	0.25
hsa-miR-376a*	0.00	0.39	0.14	0.00	0.08	0.25	0.00	0.64	0.00	0.00	0.00	2.02	0.00	1.82	0.00
hsa-miR-376c	-0.74	0.19	-0.06	-0.32	0.03	-0.24	-0.83	1.09	0.93	0.88	0.71	1.86	1.18	1.71	1.34
hsa-miR-379	0.00	1.70	0.26	0.00	1.36	0.42	0.00	2.39	1.98	1.78	1.00	3.57	2.44	3.26	2.58
hsa-miR-380*	0.34	0.32	0.50	-0.11	0.64	-0.79	0.32	0.11	0.23	0.38	0.21	0.37	0.30	0.17	0.41
hsa-miR-381	2.48	2.28	2.17	1.78	2.40	2.42	0.00	2.04	2.61	2.48	1.21	2.38	2.32	1.79	2.55
hsa-miR-382	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.96	0.00	0.74	0.00	2.76	1.71	3.32	1.09
hsa-miR-383	-0.10	-0.58	-1.62	-0.66	-0.48	-0.43	-0.32	-1.74	-1.75	-0.99	-0.45	-1.77	-1.54	0.08	-1.23
hsa-miR-409-3p	-1.63	-1.31	-0.45	-1.97	-0.19	-2.24	-1.15	1.73	1.07	1.51	0.86	2.49	2.03	2.78	1.86
hsa-miR-409-5p	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.61	0.13	0.00	1.98	0.10	1.54	0.69
hsa-miR-410	-1.31	-1.02	-0.99	-1.36	-0.94	-1.37	-2.10	-0.44	-0.68	-0.79	-0.88	0.26	-0.11	0.32	-0.16
hsa-miR-411	-1.06	-0.23	0.18	-0.67	-0.27	-0.77	-3.33	0.68	0.49	0.60	0.29	1.70	0.86	1.44	0.88
hsa-miR-411*	0.00	0.27	0.14	0.12	0.00	0.00	0.00	0.00	0.41	0.28	0.00	1.63	0.00	1.49	0.99
hsa-miR-424	1.27	1.77	1.69	1.78	2.06	2.38	1.48	2.10	2.51	2.86	2.86	2.87	2.82	3.27	2.82
hsa-miR-424*	0.00	0.08	0.00	0.00	0.00	0.19	0.00	0.18	0.54	1.56	1.75	1.63	1.86	3.03	0.00
hsa-miR-425*	0.34	-0.20	0.11	-0.30	-0.38	-0.30	-0.15	-0.18	-0.11	0.28	0.19	0.41	0.53	0.86	0.11
hsa-miR-429	-0.32	0.01	-0.78	-0.86	-0.59	-0.57	-0.68	-0.47	-0.62	-0.27	-0.78	-0.24	-0.97	-0.06	-0.46
hsa-miR-432	-2.85	-0.80	-2.84	-2.80	-0.86	-2.82	-2.80	0.25	0.45	0.87	-0.01	1.51	0.97	1.55	1.27
hsa-miR-433	-1.46	-2.37	-2.36	-2.31	-0.81	-2.35	-2.48	-2.48	-0.40	-0.31	-2.38	0.51	0.17	0.55	0.31
hsa-miR-449a	0.83	0.43	0.96	0.76	1.08	1.31	0.93	0.94	0.81	0.79	1.09	1.18	1.01	0.95	0.75
hsa-miR-449b	0.26	0.03	0.07	-0.15	0.22	0.49	0.13	0.21	0.12	0.07	0.44	0.37	0.28	0.15	-0.54
hsa-miR-450a	0.00	1.91	1.75	0.00	0.00	0.00	0.00	2.00	1.91	2.07	2.47	0.68	2.73	3.10	2.32
hsa-miR-450b-5p	0.00	1.92	0.43	0.00	0.00	1.51	0.89	2.20	1.51	1.89	2.45	1.54	1.91	2.66	2.01
hsa-miR-451	-0.79	-2.00	-2.08	-2.48	-1.02	-1.25	-0.79	-1.52	-0.74	-0.37	-0.80	-0.66	-0.86	-0.56	-0.05

hsa-miR-452	-2.53	-2.50	-0.87	-2.44	-2.34	-2.47	-0.98	-0.10	-2.62	0.25	-1.13	-0.23	0.12	0.59	0.84
hsa-miR-455-3p	1.71	1.21	1.50	-0.31	0.75	-0.21	0.28	0.53	0.08	0.22	-1.71	-1.76	0.92	-0.28	-3.00
hsa-miR-455-5p	2.26	1.58	2.04	0.41	1.94	0.70	1.28	1.02	1.40	1.60	0.38	0.53	1.75	1.17	-0.63
hsa-miR-483-5p	-0.14	-0.53	0.03	-0.38	-0.12	-0.77	-0.20	-1.02	-0.43	-0.52	-0.68	-0.14	-0.22	-0.19	-0.85
hsa-miR-485-3p	-0.27	0.72	0.72	0.43	1.11	0.76	-2.42	1.75	1.35	1.25	1.29	1.99	1.63	2.43	1.74
hsa-miR-487a	-0.05	0.11	-0.01	-0.32	-0.11	-0.82	0.23	0.16	-1.13	-0.47	-0.08	-0.64	-0.19	0.30	0.33
hsa-miR-487b	-3.33	-0.72	-0.57	-3.23	-1.05	-3.27	-1.57	0.33	0.22	0.36	-0.04	1.12	0.57	1.03	0.48
hsa-miR-489	0.71	-0.49	-0.39	-0.34	0.53	0.37	0.05	-0.08	-0.14	-0.30	-0.26	0.52	0.56	-0.02	-0.01
hsa-miR-493	0.07	0.00	0.99	0.00	1.29	0.00	0.00	1.86	0.31	0.82	1.69	2.28	1.10	1.28	1.51
hsa-miR-493*	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.88	0.00	0.00	1.76	0.99	1.14	2.04
hsa-miR-495	-4.09	-1.08	-1.40	-3.99	-0.82	-2.19	-4.17	-0.02	-0.08	0.06	-0.28	0.88	0.27	0.77	0.39
hsa-miR-497	0.80	0.32	0.50	0.38	0.23	0.11	0.51	-0.36	-0.38	0.28	0.45	0.67	0.31	0.06	0.30
hsa-miR-499-5p	1.45	1.94	1.01	1.66	1.70	0.97	0.51	0.36	0.09	0.00	0.18	2.33	0.00	0.00	0.25
hsa-miR-500*	0.47	-0.57	-0.47	-0.06	-3.05	-0.83	-0.43	-0.30	-3.20	-0.61	0.29	0.15	0.19	0.72	-0.74
hsa-miR-501-3p	1.94	1.15	1.02	0.91	0.00	1.26	0.00	0.10	0.27	0.00	1.20	1.22	0.79	0.09	0.00
hsa-miR-501-5p	0.02	-0.16	-0.03	0.40	0.23	0.24	-0.17	0.12	-0.18	-0.22	0.23	0.49	-3.13	0.33	-0.14
hsa-miR-502-5p	2.31	1.79	2.04	2.33	1.43	2.21	1.80	1.86	1.73	1.40	2.13	2.38	2.13	2.25	1.58
hsa-miR-503	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	1.42	1.33	0.00	0.72	2.29	0.00
hsa-miR-508-3p	1.35	1.68	0.00	0.00	1.79	2.81	0.00	0.92	2.86	2.56	1.57	2.95	1.51	3.03	2.35
hsa-miR-509-5p	0.24	0.03	-0.08	0.58	0.04	-0.14	-0.10	-0.78	0.56	0.37	-1.49	0.63	-0.38	-0.07	0.35
hsa-miR-511	0.38	-0.63	0.00	-0.27	-0.02	-0.78	-1.10	-0.33	-0.41	-0.92	-1.14	-0.20	-0.08	0.23	-0.49
hsa-miR-512-3p	0.24	-0.38	-0.29	0.13	-0.69	-0.51	-0.95	0.86	-0.38	-0.94	-0.85	-0.98	-0.75	-0.29	-0.62
hsa-miR-513-5p	-2.78	-1.19	-2.73	-0.63	-1.10	-2.72	-2.07	-1.15	-2.87	-1.12	-1.17	-1.59	-1.87	-1.73	-1.70
hsa-miR-517a	0.00	0.21	1.67	1.36	1.38	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.00	1.13	0.00
hsa-miR-517c	0.00	0.00	0.28	1.49	2.20	0.00	0.42	0.00	0.58	0.00	0.73	0.00	0.00	0.00	0.00
hsa-miR-518d-3p	-0.88	0.39	0.83	0.65	0.58	0.60	-0.96	1.02	-0.97	-0.95	0.16	-0.99	-0.75	-0.80	-0.40
hsa-miR-518e	0.00	0.18	1.97	0.00	0.13	0.08	0.00	0.70	0.12	0.64	0.00	0.79	0.81	0.00	0.00
hsa-miR-518f	0.88	1.60	1.05	1.77	1.64	1.16	0.00	0.89	1.12	0.00	1.20	0.06	0.38	0.00	0.77
hsa-miR-519a	0.00	2.34	2.27	1.01	1.95	1.12	0.50	2.13	0.00	0.24	1.67	0.00	0.00	0.49	1.86
hsa-miR-519b-3p	-0.87	-0.66	-0.69	-1.25	-0.90	-0.49	-0.52	-0.15	-0.67	-0.86	-0.44	-0.87	-0.30	-0.88	-0.49
hsa-miR-519d	-3.12	-3.09	-2.20	-3.03	-1.12	-1.74	-1.55	-3.20	-3.21	-1.34	-3.09	-2.73	-2.99	-0.80	-1.22
hsa-miR-519e	0.95	-0.80	1.11	-0.38	-0.64	1.13	-0.91	0.41	-0.92	-0.19	-0.13	-0.94	-0.49	-0.03	-0.57
hsa-miR-520b	-0.73	0.04	-0.15	-0.12	0.00	-0.31	-0.03	-0.21	-0.95	0.15	-0.06	-0.30	-0.48	-0.13	-0.64

hsa-miR-520f	-0.49	-3.62	-2.04	-0.87	-0.72	-1.05	-0.38	-3.73	-0.30	-0.20	-3.62	-0.93	-0.02	-0.24	-3.39
hsa-miR-523	0.62	1.00	0.72	0.86	-0.45	0.20	-0.05	-0.22	0.64	0.27	0.33	-0.31	0.17	1.17	1.06
hsa-miR-524-3p	0.31	-0.50	-0.07	-1.01	-0.44	-0.73	-0.43	-1.39	-0.33	-0.77	-0.03	-1.27	-1.85	-1.85	-0.50
hsa-miR-539	0.06	0.44	0.39	-0.05	0.18	0.21	-0.48	1.39	0.76	1.00	1.10	2.33	1.58	2.05	1.95
hsa-miR-541*	-1.63	-1.60	-0.69	-1.58	-1.48	-1.60	-1.58	-1.67	-1.03	-1.58	-1.51	-1.65	-1.43	-1.44	-1.46
hsa-miR-542-3p	0.75	1.75	0.00	0.09	0.93	1.78	0.92	2.29	1.59	2.08	2.18	1.75	1.70	2.41	2.07
hsa-miR-543	-1.09	-1.05	-1.08	-1.03	0.25	-1.05	-1.03	2.15	1.78	1.70	1.39	2.94	2.23	3.00	1.73
hsa-miR-545*	2.15	1.35	1.75	1.48	1.73	1.56	1.71	1.78	1.77	1.34	1.81	1.82	1.32	1.85	1.43
hsa-miR-548a-3p	0.00	1.39	0.00	1.35	2.20	1.95	1.14	1.38	2.02	1.58	1.33	1.53	1.33	0.28	2.23
hsa-miR-548a-5p	-2.14	-2.11	-2.09	-2.04	-1.95	-2.08	-2.22	-2.22	-2.23	-2.20	-2.11	-2.24	-2.01	-0.95	-1.88
hsa-miR-548b-5p	0.15	1.10	0.98	0.78	1.14	0.50	-0.05	0.31	0.35	0.50	0.40	0.62	0.08	0.45	0.36
hsa-miR-548c-3p	-3.01	-2.98	-0.73	-0.50	-2.59	-2.95	-3.09	-0.86	-0.79	-3.08	-0.91	-0.87	-0.48	-2.93	-2.75
hsa-miR-548d-3p	2.76	2.41	2.06	1.84	2.19	2.72	0.00	2.02	2.40	1.57	2.32	2.85	2.32	2.69	0.00
hsa-miR-550	0.39	0.73	0.95	-0.53	-0.87	0.19	0.32	0.31	0.09	0.44	0.51	0.39	0.64	0.59	0.77
hsa-miR-550*	-0.18	0.03	0.07	-0.28	-3.02	-0.26	-0.31	-0.91	-0.56	-0.62	-0.21	-0.56	-0.06	0.08	-0.34
hsa-miR-551b	-1.07	-2.44	-1.55	-5.04	-1.43	-2.77	-1.01	-5.21	-1.32	-0.96	-5.10	-1.23	-0.96	-0.88	-2.43
hsa-miR-555	0.43	0.00	1.91	1.37	1.91	1.70	1.12	1.51	1.78	1.28	1.67	1.97	1.35	2.35	1.58
hsa-miR-559	-0.50	0.00	-0.38	0.67	-0.15	-0.20	0.60	0.03	-1.15	-0.77	-1.03	-1.18	-0.60	-0.30	-0.18
hsa-miR-565	0.31	-0.09	-0.15	-0.58	0.40	-1.04	0.23	-0.86	-0.37	-0.08	-3.39	-0.52	0.00	0.01	-0.43
hsa-miR-566	0.44	0.24	-0.11	0.11	0.80	0.34	-0.10	-0.32	0.38	-0.14	0.08	0.25	-0.25	0.24	-0.20
hsa-miR-570	2.87	2.04	2.06	2.67	1.53	2.35	2.16	1.31	1.79	1.85	2.30	2.45	1.71	2.04	1.68
hsa-miR-572	0.57	0.15	0.20	0.39	0.32	0.14	0.36	-0.53	0.28	0.09	-0.41	0.35	0.39	0.34	-0.23
hsa-miR-573	-0.58	-0.60	-0.72	-3.72	-0.16	-0.06	-1.01	-0.61	-0.64	-1.00	-1.08	-0.44	-0.27	-0.38	-0.57
hsa-miR-575	1.94	1.70	0.90	0.43	0.80	1.14	1.15	0.46	0.97	1.10	1.34	1.34	2.04	1.47	0.00
hsa-miR-576-5p	1.39	1.24	1.33	0.90	1.57	0.88	0.09	0.80	0.67	0.52	1.05	0.46	1.21	1.06	1.13
hsa-miR-581	2.28	1.56	1.66	0.40	1.74	1.62	1.88	1.50	1.29	1.69	1.75	1.64	0.34	2.08	1.89
hsa-miR-582-3p	0.00	0.00	2.05	1.71	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	2.10
hsa-miR-584	-0.26	-0.36	-0.10	-0.49	0.27	-1.74	-0.55	0.17	-0.14	0.28	0.43	-0.50	0.91	1.49	0.73
hsa-miR-586	-0.28	-0.40	-0.22	-0.42	0.11	-0.01	-0.07	-0.22	-0.18	-0.22	0.04	-0.36	-0.28	-0.73	-0.92
hsa-miR-591	1.94	1.08	1.02	0.00	1.97	1.44	0.93	1.53	2.11	1.76	0.97	1.72	1.63	1.79	1.13
hsa-miR-592	-0.66	-1.19	-0.99	-2.16	-3.05	-0.62	-3.15	-0.76	-0.59	-3.16	-3.08	-1.11	-0.61	-3.01	-3.03
hsa-miR-599	0.00	1.33	1.06	0.00	0.00	1.24	1.32	0.00	0.00	0.49	0.79	0.00	0.91	1.35	1.77
hsa-miR-604	-0.60	-0.75	-0.26	-0.03	-0.25	-0.36	-1.48	-1.03	-0.69	-0.54	0.09	0.06	-0.53	0.10	-0.83



hsa-miR-605	-0.35	-1.07	-0.59	-2.38	0.36	0.91	-2.59	-2.40	-2.64	-2.59	-2.52	-1.46	-0.75	0.08	-1.66
hsa-miR-606	-0.72	-0.62	-1.54	-1.50	-1.40	0.01	-1.50	-1.11	-1.29	-1.50	-1.43	-1.57	-0.81	-1.36	-0.45
hsa-miR-613	0.72	0.00	0.00	1.53	1.32	0.00	0.00	0.00	0.16	0.00	0.51	0.00	0.96	0.00	1.24
hsa-miR-616	0.90	0.29	1.41	0.36	0.16	0.19	0.14	-0.24	0.08	-1.86	0.07	0.74	0.35	0.40	-0.02
hsa-miR-618	0.12	0.43	0.07	0.03	0.68	0.49	-0.17	0.54	0.47	0.12	0.45	0.38	0.87	1.23	0.21
hsa-miR-623	-0.97	-1.01	-2.81	-1.72	-0.70	-2.58	-0.66	-2.86	-1.23	-1.47	-1.12	-1.14	-1.69	-0.77	-1.70
hsa-miR-624*	0.80	-0.20	0.29	-0.50	-1.31	-0.21	-0.13	-0.75	0.30	0.23	0.15	0.49	-0.56	0.45	0.09
hsa-miR-626	-0.20	-0.09	-0.46	0.17	-0.39	-0.69	-2.58	0.45	-0.78	-2.59	-0.91	-0.01	0.15	-0.05	-2.46
hsa-miR-635	-0.82	-0.80	-0.65	-3.15	-0.82	-1.41	-1.13	-3.24	-3.07	-0.61	-0.54	-3.10	-2.88	-0.27	-3.03
hsa-miR-640	-2.01	-0.55	-1.29	-1.64	-0.39	-1.97	-1.95	-2.04	-2.01	-1.96	-1.88	-0.27	-0.44	0.17	-1.83
hsa-miR-641	0.71	0.00	0.00	0.00	0.13	0.00	0.30	0.20	0.00	0.00	0.00	0.29	0.16	0.13	0.27
hsa-miR-642	-0.67	-0.32	0.39	-0.18	-1.11	0.60	-0.88	-0.39	-0.48	0.01	0.03	-0.14	-0.65	0.22	-0.20
hsa-miR-644	-0.40	0.45	0.11	0.18	0.64	-1.19	0.17	0.13	0.34	-0.19	0.18	0.42	-1.34	0.10	-0.26
hsa-miR-645	-0.75	-0.49	-0.70	-0.48	-1.04	-0.84	-0.99	-0.49	-0.75	-0.88	-1.16	-0.71	-0.14	-1.86	-0.60
hsa-miR-648	0.05	0.00	0.08	0.43	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00
hsa-miR-649	0.58	1.71	1.50	0.96	2.61	0.10	1.45	0.29	1.77	1.82	0.35	2.11	1.68	2.42	0.00
hsa-miR-650	-2.17	-1.90	0.51	-1.80	-1.35	-3.21	-2.48	-2.36	-2.82	-1.41	-2.93	-1.39	-2.32	-1.39	-0.33
hsa-miR-651	2.30	2.16	2.23	1.78	1.73	1.36	1.11	1.48	1.37	1.55	1.27	1.93	1.70	1.20	1.90
hsa-miR-654-3p	1.20	1.87	0.00	0.00	1.94	0.00	0.00	0.00	0.00	1.64	1.81	2.50	2.47	2.56	2.14
hsa-miR-655	0.00	1.75	1.63	0.80	1.94	1.29	0.00	2.69	2.16	2.03	2.62	3.18	2.11	2.91	2.86
hsa-miR-656	-0.37	0.01	-0.49	-0.55	0.33	-0.68	-0.69	-0.02	0.13	0.15	0.02	0.69	0.37	0.69	0.19
hsa-miR-659	-0.63	-0.83	-0.77	-0.59	-0.32	-0.66	-1.22	-1.03	-0.97	-1.47	-1.06	-2.20	-0.73	-1.01	-0.50
hsa-miR-660	0.69	0.47	0.70	0.55	0.18	0.63	0.51	0.47	0.34	0.02	0.17	0.68	0.36	0.38	0.19
hsa-miR-662	-0.69	-0.05	-1.47	0.38	-0.89	-1.45	-1.43	-1.52	0.05	-1.44	-1.36	0.72	-1.28	-0.21	-1.31
hsa-miR-671-3p	0.45	0.00	-0.34	0.12	-0.15	0.05	-0.76	0.09	-0.09	0.10	0.18	0.08	-0.09	0.31	-0.26
hsa-miR-672	0.00	0.00	0.00	0.55	1.94	0.89	0.00	0.00	0.00	0.71	0.00	0.00	0.00	1.41	0.30
hsa-miR-708	-0.75	0.26	0.49	0.43	1.02	0.91	0.70	0.28	0.01	0.82	0.91	0.86	1.30	0.84	0.03
hsa-miR-708*	0.06	0.98	0.91	0.00	1.50	1.35	0.86	0.63	0.00	0.68	1.21	0.07	1.71	0.58	0.63
hsa-miR-758	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.10	0.66	0.36	1.76	0.74	1.90	0.00
hsa-miR-769-3p	1.48	1.75	0.00	0.53	1.41	1.81	1.64	1.71	1.38	0.49	1.57	1.17	0.80	2.09	2.14
hsa-miR-770-5p	-0.90	-0.95	-1.95	-2.40	-1.26	-1.12	-0.76	-1.19	-0.62	-1.45	-3.70	-1.04	-1.74	-1.29	-3.65
hsa-miR-801	0.23	0.09	0.22	0.25	0.30	-0.52	-0.19	-0.71	0.20	0.40	-0.09	0.52	-0.12	0.64	-0.37
hsa-miR-873	0.75	0.00	0.60	0.00	2.44	2.32	0.00	1.34	1.50	1.56	0.74	1.58	0.87	1.51	0.00

hsa-miR-874	-0.05	-0.70	0.21	-0.73	-0.48	-3.72	-0.06	0.08	0.04	-0.57	-0.16	-0.06	-0.40	0.31	-0.28
hsa-miR-876-5p	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.44	0.28	0.00	1.85	0.00
hsa-miR-885-5p	-1.25	-0.82	-1.18	-1.09	-0.37	-1.02	-1.27	-1.33	-0.91	-0.95	-1.01	0.30	-0.59	-0.93	-0.95
hsa-miR-886-3p	0.31	0.09	0.55	-0.69	-0.23	-0.45	0.11	-0.86	-0.27	0.19	-0.45	0.41	-0.56	-0.27	-0.86
hsa-miR-886-5p	-0.24	0.60	0.19	-0.23	-0.21	0.02	-0.74	-0.53	-0.60	0.00	-0.18	0.23	-0.71	-0.47	0.24
hsa-miR-888	-0.05	0.26	0.01	-0.13	0.62	0.09	1.21	-1.14	-0.19	1.05	-0.36	-1.45	1.16	1.40	0.61
hsa-miR-889	0.00	0.00	0.00	0.00	0.41	0.00	0.00	2.13	2.06	2.27	0.68	3.27	2.14	2.97	2.44
hsa-miR-892b	0.22	0.77	1.63	0.94	1.50	1.40	0.87	1.33	0.63	0.69	0.78	0.11	0.00	1.26	0.75
hsa-miR-9	-0.37	-0.45	-0.30	-0.59	-0.76	-0.64	-0.60	-0.55	-0.92	-0.19	0.24	-0.03	-0.27	-0.36	-0.49
hsa-miR-9*	-0.03	-0.17	0.15	-0.23	-0.41	-0.32	-0.04	-0.15	-0.39	-0.02	0.55	0.30	0.12	0.05	-0.28
hsa-miR-922	2.94	2.81	2.60	2.55	3.01	2.62	2.87	1.09	2.90	2.88	2.55	3.11	2.20	2.75	1.40
hsa-miR-923	0.28	-0.31	-0.40	-0.08	0.21	-0.74	0.27	-0.76	-0.18	0.27	-1.22	-0.01	0.20	-0.21	-0.22
hsa-miR-92a-2*	-2.12	-2.09	-2.11	-0.08	0.10	-2.09	-2.07	-2.15	-2.12	-2.07	0.70	-2.14	-1.92	-1.92	-1.95
hsa-miR-937	0.09	0.99	1.03	-0.11	1.47	-1.07	-1.05	-1.14	-1.11	0.55	-0.98	0.51	-0.91	0.71	-0.93
hsa-miR-938	0.00	0.38	0.00	0.00	0.00	0.09	0.00	0.10	0.35	0.70	0.96	0.79	0.00	0.91	0.00
hsa-miR-939	2.38	2.87	2.84	2.86	3.13	2.66	1.99	2.46	2.70	2.40	2.03	2.71	1.84	2.62	2.31
hsa-miR-941	0.17	-0.20	-0.25	0.04	-0.94	0.00	-0.21	0.01	-0.31	0.39	0.64	0.64	0.34	0.88	0.08
hsa-miR-944	-2.78	-1.42	-0.87	-0.87	1.19	-0.64	-1.03	-0.42	-0.55	-0.26	0.23	0.57	-0.35	0.41	0.76
hsa-miR-95	-1.38	0.22	0.86	0.26	0.24	0.80	-0.73	0.57	0.70	0.70	0.06	0.42	0.07	0.12	0.56
hsa-miR-96	3.51	2.57	3.37	3.31	2.45	2.58	1.82	2.70	0.16	0.07	2.19	2.59	0.77	0.85	1.45
hsa-miR-98	0.95	0.98	0.00	1.49	0.00	2.02	0.00	0.96	0.00	0.09	1.40	2.17	0.56	0.26	1.90
hsa-miR-99a	-0.43	-1.60	-4.06	-0.89	0.25	-0.52	-3.09	-1.12	-0.93	-0.78	-0.63	-0.54	0.38	0.18	-0.52
hsa-miR-99a*	0.36	0.00	0.00	0.00	2.10	0.00	0.00	1.09	0.00	0.00	0.00	1.30	1.76	1.71	0.00
hsa-miR-99b	-0.34	-0.81	-1.52	-1.66	0.19	-0.43	-0.26	-0.56	-0.69	-0.06	-0.21	0.14	0.19	0.44	0.25
hsa-miR-99b*	-0.73	-0.81	-0.69	-1.09	-0.37	-1.60	-0.66	-0.56	-0.72	-0.51	-0.99	-0.42	-0.05	0.47	0.05

ID	MCL16	MCL17	MCL18	MCL19	MCL20	MCL21	MCL22	MCL23	MCL24	MCL25	MCL26	MCL27	MCL28	MCL29	MCL30
hsa-let-7a*	2.08	2.41	2.15	2.27	1.83	2.29	2.39	0.74	1.91	2.25	2.52	2.15	1.93	1.68	2.13
hsa-let-7e*	-0.34	-1.85	-0.35	-2.09	-0.87	-1.91	-1.95	-1.90	-1.21	-0.59	-1.92	-0.13	-2.04	-2.27	-1.68
hsa-let-7f-1*	0.00	0.14	0.00	1.81	0.00	0.59	0.14	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00
hsa-let-7f-2*	0.97	0.71	0.96	2.01	1.26	1.77	0.00	0.00	0.00	1.06	0.72	0.00	0.44	1.00	1.10
hsa-miR-1	1.02	0.61	0.04	0.52	-0.26	0.27	-0.81	-2.53	-2.59	-2.43	-2.22	-2.42	0.13	-0.93	-0.21
hsa-miR-100	-0.41	-0.81	-0.45	0.06	-0.47	0.23	-4.21	-1.43	-0.90	-1.53	-1.16	-0.84	-0.66	-1.33	-1.25
hsa-miR-100*	0.00	1.59	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.71	0.17	0.33	0.89
hsa-miR-101*	0.92	2.37	2.41	1.84	2.06	1.01	0.86	1.88	1.60	1.36	0.00	2.12	1.28	2.37	1.91
hsa-miR-106b*	1.31	1.07	1.35	1.90	1.62	1.60	0.77	0.41	0.45	0.25	1.20	1.15	1.06	1.23	1.25
hsa-miR-107	-0.19	-0.44	-0.79	0.19	-0.45	-0.25	-0.79	-1.30	-1.07	-0.65	-1.27	-0.33	-1.57	-1.09	-0.63
hsa-miR-10a	-0.43	-1.11	-0.80	-0.98	-0.93	-0.50	-0.94	-2.96	-1.17	-0.52	-0.14	-0.61	-0.94	-3.93	-2.29
hsa-miR-10a*	0.80	0.73	1.25	0.16	0.94	0.24	0.27	1.08	2.03	1.83	2.13	1.37	0.92	0.44	1.25
hsa-miR-10b*	-0.04	0.35	-0.32	0.18	0.37	-0.02	-0.07	-1.38	-0.03	0.04	0.06	0.40	0.20	0.18	-0.59
hsa-miR-122	-3.43	-3.32	-3.57	-3.60	-3.74	-3.43	-3.35	-3.32	-3.38	-3.22	-3.33	-3.21	-3.53	-3.84	-3.62
hsa-miR-124	-0.32	1.18	0.76	0.66	-0.03	1.02	0.61	-0.21	1.44	1.33	0.47	-0.75	0.46	0.25	0.17
hsa-miR-125a-3p	-2.77	-0.21	-1.43	-0.37	-0.40	-0.34	-2.69	-2.66	-0.21	-2.56	-2.67	-2.55	-2.88	-0.37	-1.60
hsa-miR-125a-5p	-0.24	-0.49	-0.37	0.18	0.35	0.16	-1.72	-1.45	-0.78	-0.67	-0.60	-0.70	-0.36	-0.07	-0.23
hsa-miR-125b	-0.11	-0.92	-0.87	-0.08	-0.24	0.06	-1.56	-1.83	-1.32	-1.08	-1.16	-0.45	-0.83	-0.91	-1.25
hsa-miR-126	2.48	2.17	1.54	2.60	2.30	1.84	0.73	0.69	1.51	1.07	0.35	1.41	1.30	1.09	1.69
hsa-miR-126*	2.32	2.15	1.42	2.43	2.13	1.77	0.68	0.80	1.20	0.94	0.29	1.30	1.23	1.04	1.54
hsa-miR-127-3p	1.04	1.17	0.26	1.59	1.17	1.04	-0.53	-1.41	-0.60	0.28	0.08	-0.09	0.36	-0.72	0.79
hsa-miR-129-3p	-1.08	-0.97	-1.23	-1.25	-1.39	-1.09	-1.00	-0.97	-1.03	-0.87	-0.98	-0.86	-1.19	-1.49	-1.27
hsa-miR-130a	1.24	0.70	0.09	1.34	0.85	0.71	-0.71	-0.63	0.05	-0.34	-0.53	0.37	0.13	-0.04	0.27
hsa-miR-130b*	-0.71	-0.73	-0.36	0.49	-0.35	0.00	-0.89	-1.25	-1.18	-1.10	-0.36	-0.81	-0.47	-0.72	-0.74
hsa-miR-132*	-1.42	-2.04	-0.64	-0.54	-2.23	-2.09	-2.14	-2.09	-2.14	-0.70	-0.71	-2.12	-2.22	-2.45	-2.28
hsa-miR-133a	0.44	0.18	-0.69	-0.10	-0.45	-0.05	-0.11	-1.44	-0.34	-1.45	-0.82	-1.12	-1.04	-0.03	-0.56
hsa-miR-133b	0.71	0.43	-1.46	-0.39	-1.16	-0.38	-0.14	-2.69	-1.21	-2.59	-2.70	-2.53	-2.90	0.02	-1.24
hsa-miR-134	2.53	2.71	1.47	2.27	1.87	1.92	0.00	0.00	0.00	1.11	0.00	0.31	1.18	0.00	0.90
hsa-miR-135a	-0.13	-0.18	0.65	-0.02	-0.61	0.62	-0.33	-0.86	0.19	-0.15	-0.84	-0.77	-0.97	0.33	-0.66
hsa-miR-135b	-0.82	-1.05	0.26	0.37	0.14	0.51	-0.65	-2.17	-0.67	-0.99	-0.48	-0.53	-0.27	-0.18	-0.62
hsa-miR-136	0.14	-0.32	0.61	-0.85	-0.86	0.68	-0.16	-0.53	1.10	0.04	-0.36	-1.01	0.77	-0.46	-0.61

hsa-miR-136*	2.40	2.24	0.00	3.22	2.84	2.56	0.00	0.00	1.55	0.35	0.00	2.09	1.12	1.01	1.85
hsa-miR-138	0.44	-0.26	-0.68	-1.40	0.72	-1.16	-2.45	-2.70	-1.01	-0.74	-2.66	-1.04	-3.14	-2.27	-2.28
hsa-miR-138-2*	1.13	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hsa-miR-139-5p	1.63	1.13	0.80	1.54	1.18	1.15	0.50	-0.08	1.18	0.97	1.75	0.56	0.59	0.60	1.01
hsa-miR-141	0.17	0.34	0.52	0.62	0.40	0.43	0.27	-0.15	-0.40	-0.31	-0.03	0.56	-0.25	0.48	0.29
hsa-miR-141*	0.00	0.00	1.77	1.23	1.21	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	1.01	1.26
hsa-miR-143	1.12	1.28	1.25	0.82	0.96	1.29	-1.53	-0.65	0.59	0.52	0.17	0.46	0.08	0.23	0.51
hsa-miR-144*	0.82	1.00	0.63	0.10	-0.11	0.85	-0.78	0.05	1.32	0.44	0.10	0.29	-0.25	-0.04	-0.28
hsa-miR-145	1.95	2.09	2.17	1.24	1.05	2.17	0.30	0.50	1.54	1.30	1.27	1.18	1.24	-0.10	0.07
hsa-miR-145*	1.66	2.22	2.42	2.20	1.96	2.08	0.00	0.00	1.65	0.00	1.42	0.00	0.00	1.37	1.10
hsa-miR-146a	-0.33	0.31	-0.66	0.23	-0.05	-0.17	-0.68	-1.12	-0.10	0.09	-0.28	-0.40	-0.78	0.27	-0.97
hsa-miR-146a*	1.74	0.00	0.00	1.21	0.34	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00
hsa-miR-146b-3p	-0.61	-1.14	0.31	0.62	0.10	0.85	-0.83	-0.54	-0.17	-1.01	0.15	0.05	-0.40	0.29	-0.58
hsa-miR-146b-5p	-0.22	-0.07	0.45	0.76	0.60	0.73	-0.80	-0.36	-0.04	-0.09	0.31	0.16	-0.16	0.65	-0.16
hsa-miR-148a	-0.69	-0.19	-0.54	-0.24	-0.69	-0.46	-1.26	-1.97	-0.31	-1.57	-1.36	-0.31	-1.20	0.13	-1.14
hsa-miR-149	-1.46	-1.35	-1.61	0.09	-1.77	1.22	-1.38	-1.35	-1.41	-1.25	-0.61	-1.24	-1.57	-1.87	-1.17
hsa-miR-151-3p	-0.36	-0.35	-1.20	-0.12	-0.53	0.05	-0.23	-1.13	-0.98	-0.37	-0.28	-0.36	-1.18	0.04	-0.25
hsa-miR-152	-0.36	-0.49	0.19	0.22	-0.21	0.23	-0.60	-1.11	-0.62	-1.18	0.10	-0.69	-0.56	-0.04	-0.67
hsa-miR-155*	0.88	0.53	0.91	-0.07	0.21	0.38	-0.05	0.80	0.91	1.28	0.12	0.14	0.62	-0.06	0.36
hsa-miR-15b*	0.22	0.37	1.02	0.92	0.55	0.93	0.06	-0.20	0.19	-0.62	0.46	-0.51	0.45	0.47	0.25
hsa-miR-17*	1.93	2.02	2.21	2.33	2.14	1.75	1.84	1.72	1.08	1.40	1.71	2.08	1.95	2.11	2.13
hsa-miR-181a	-1.17	-1.28	-0.58	0.07	-0.55	-0.07	-1.78	-2.20	-1.40	-1.31	-1.31	-0.32	-1.04	-0.94	-1.05
hsa-miR-181a*	-1.31	-1.79	-0.23	0.28	-0.22	0.37	-4.05	-2.80	-1.04	-2.54	-0.43	-1.14	-0.50	-0.39	-1.22
hsa-miR-181a-2*	-0.64	-0.98	-0.71	0.46	-0.14	-0.04	-1.59	-2.48	-1.72	-1.45	-0.97	-0.14	-0.32	-0.82	-1.91
hsa-miR-181c	-0.94	-1.20	-0.38	-0.10	-0.65	0.05	-1.18	-1.54	-1.23	-1.36	-1.19	-0.47	-0.76	-1.17	-1.14
hsa-miR-181c*	1.06	0.00	1.35	1.05	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hsa-miR-182	2.27	2.89	2.20	0.50	0.31	1.98	2.48	1.75	2.66	2.08	0.00	0.82	0.00	0.48	0.00
hsa-miR-183	0.76	2.06	0.09	0.00	0.00	0.35	0.00	0.00	1.10	0.00	0.00	0.16	0.00	0.00	0.00
hsa-miR-183*	0.52	1.02	1.07	0.00	0.00	0.00	0.13	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00
hsa-miR-184	-1.09	-0.56	-0.93	-0.60	-1.21	-0.56	-2.49	-0.78	-0.68	-0.47	-2.08	-0.33	-1.77	-0.62	-1.02
hsa-miR-186*	0.00	1.05	0.23	1.27	0.00	1.77	0.00	0.00	1.41	0.25	0.26	0.00	0.00	0.00	0.00
hsa-miR-18b	0.72	0.65	1.03	0.55	0.34	0.92	0.63	0.76	0.55	1.06	0.71	0.66	0.88	0.50	-0.31
hsa-miR-190	2.67	0.00	2.86	1.99	1.64	3.01	2.56	2.53	2.33	2.14	1.90	2.69	2.47	1.81	1.17

hsa-miR-193a-3p	-2.01	-2.56	0.54	0.54	0.12	-0.27	0.14	0.50	-1.59	-2.46	-0.78	-1.32	-2.02	0.16	0.21
hsa-miR-193a-5p	-0.80	-0.26	0.33	0.46	-0.15	0.30	0.12	0.43	-0.55	-0.45	-0.11	-0.13	-0.45	-0.24	-0.29
hsa-miR-193b	-1.05	-1.24	0.02	-0.27	-1.05	-0.37	-0.15	-1.30	-1.46	-1.62	-0.71	-1.25	-1.04	-0.79	-0.26
hsa-miR-193b*	-2.81	-3.25	-0.15	-0.99	-2.42	-0.20	-0.28	-3.30	-3.35	-3.13	-2.07	-3.33	-3.43	-2.40	-1.22
hsa-miR-196b	2.18	1.69	2.38	2.23	1.73	2.77	1.12	0.86	1.57	0.56	2.31	1.63	2.12	1.61	0.73
hsa-miR-199a-3p	1.53	1.01	0.65	1.37	1.15	1.07	-0.13	-0.22	0.11	-0.12	-0.13	0.45	0.36	-0.04	0.51
hsa-miR-199a-5p	2.98	2.20	2.12	2.74	2.30	1.94	-0.59	-0.57	-0.10	-0.46	-0.57	-0.45	1.65	1.06	1.82
hsa-miR-199b-5p	0.34	-2.59	0.06	0.56	-0.08	0.24	-2.62	-2.59	-0.59	-2.48	-2.60	-1.77	-1.00	-1.14	-0.52
hsa-miR-200a	0.45	0.25	0.23	0.93	0.80	0.74	-0.28	0.11	-0.37	0.47	-0.53	-1.53	-0.39	0.26	0.56
hsa-miR-200a*	-0.97	0.16	-0.33	-0.02	-0.05	0.22	-2.91	-2.86	-0.63	0.04	-0.04	-0.23	-0.21	-0.10	-0.71
hsa-miR-200b	-0.49	-0.24	-0.28	-0.22	-0.38	0.00	-0.55	-0.56	-0.94	-0.34	-0.36	-0.60	-0.71	-0.46	-0.40
hsa-miR-200b*	-0.44	-1.04	-3.33	0.03	-0.12	-0.25	-3.22	-0.26	-3.22	-1.11	-3.19	-1.31	-1.82	-1.71	-1.42
hsa-miR-200c	-0.45	-0.33	0.02	-0.25	-0.42	-0.16	-0.40	-0.59	-0.72	-0.60	-0.20	-0.37	-0.58	-0.10	-0.40
hsa-miR-202	0.17	-0.46	-0.16	-0.44	-0.49	-0.15	0.05	-0.20	0.31	0.34	-0.01	0.34	-0.09	-0.60	-0.57
hsa-miR-203	-2.60	-2.25	-2.37	-2.62	-2.07	-1.79	-4.99	-4.96	-2.19	-4.86	-1.75	-4.85	-3.36	-3.07	-3.02
hsa-miR-204	1.41	0.26	0.42	0.35	0.58	0.91	0.12	-2.09	-1.16	0.08	-0.51	0.29	0.82	-1.88	-2.38
hsa-miR-205	-4.05	-3.95	-4.20	-4.22	-4.37	-3.38	-3.98	-3.95	-2.05	-3.84	-3.96	-3.83	-1.62	-4.47	-4.24
hsa-miR-208	0.23	0.00	0.44	0.00	0.26	1.79	1.83	0.00	0.00	0.00	1.63	1.14	1.10	0.51	1.34
hsa-miR-208b	0.00	1.53	1.78	0.00	0.13	1.21	1.13	0.47	0.00	0.00	0.76	0.00	0.65	0.68	0.00
hsa-miR-20b*	1.11	2.39	2.61	2.83	2.34	2.02	0.00	0.00	1.63	1.52	1.23	2.26	1.59	2.42	1.44
hsa-miR-21*	-0.09	-0.04	0.41	0.21	-0.18	0.00	-0.81	-0.65	0.31	-0.07	-0.97	-0.21	-0.39	0.03	-0.41
hsa-miR-211	1.69	0.00	0.26	0.00	0.00	0.71	1.02	0.36	1.21	2.14	1.16	0.00	0.23	0.00	0.00
hsa-miR-212	1.08	1.16	0.58	1.96	1.67	1.72	1.80	-0.22	1.25	1.94	1.50	0.63	0.71	0.99	0.79
hsa-miR-214	-3.66	-3.55	-2.12	-1.69	-3.97	-1.99	-3.58	-3.55	-3.61	-3.45	-3.07	-3.44	-2.31	-1.66	-3.85
hsa-miR-214*	0.22	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.09	0.00	0.00	0.00	0.00	0.09	0.00
hsa-miR-216b	-4.04	-3.93	-4.18	-3.19	-4.35	-4.04	-3.96	-3.93	-3.98	-3.83	-3.94	-3.82	-4.14	-4.45	-4.23
hsa-miR-218	-1.18	-0.58	0.03	0.28	0.06	0.39	-0.93	-1.40	-0.49	-1.27	-0.54	-0.96	-1.52	0.08	-0.33
hsa-miR-218-2*	0.70	0.00	0.09	0.00	0.00	0.00	0.00	0.71	1.30	1.33	0.19	1.40	0.00	0.00	0.16
hsa-miR-219-1-3p	0.00	0.00	0.88	0.09	0.79	0.28	0.53	0.00	0.00	0.00	0.00	0.00	1.04	1.44	0.22
hsa-miR-22	1.01	0.80	1.14	1.57	1.26	1.46	0.67	-0.90	0.38	0.57	0.79	0.42	0.63	1.08	0.75
hsa-miR-22*	0.14	-0.02	0.28	0.61	0.29	0.57	-0.03	-1.35	-0.09	-0.44	-0.01	-0.47	-0.21	0.02	-0.22
hsa-miR-221	0.32	-0.01	-0.14	0.51	0.08	0.20	-0.51	-1.28	-0.72	-0.84	-0.34	-0.36	-0.38	-0.63	-0.39
hsa-miR-221*	-0.20	0.26	0.00	0.11	-0.07	-0.11	0.07	-0.56	-0.50	-0.35	0.15	0.08	-0.56	0.00	-0.21

hsa-miR-222	-0.39	-0.28	-0.61	-0.40	-0.20	-0.41	-0.26	-0.37	-0.68	-0.17	-0.28	-0.33	-1.38	-0.28	-0.33
hsa-miR-222*	-0.84	-0.32	-0.51	-0.34	-0.50	-0.04	-0.33	-1.43	0.07	-0.56	-0.34	-0.56	-1.17	-0.49	-0.59
hsa-miR-224	0.84	0.70	-0.01	1.07	0.56	0.54	-1.24	-2.95	-3.00	-1.91	-0.73	-0.07	-1.42	-3.47	0.03
hsa-miR-23a*	2.07	1.40	2.66	2.44	1.60	2.41	1.80	0.00	2.76	1.51	2.44	0.00	2.11	1.21	2.69
hsa-miR-25*	-0.43	-0.15	0.40	-0.40	-1.08	-0.04	-1.00	-0.19	-0.34	0.89	0.05	-0.12	-0.03	-0.77	-0.58
hsa-miR-26a-1*	2.73	2.27	0.24	2.90	2.63	2.27	0.00	0.00	0.29	0.00	0.00	0.88	0.00	0.36	0.94
hsa-miR-26a-2*	-0.88	-0.65	-0.63	-0.19	-0.33	-0.13	-1.07	-3.64	-0.72	-3.47	-0.28	-0.79	-0.77	-1.26	-0.67
hsa-miR-26b	0.21	0.36	0.26	0.27	0.21	0.20	0.08	0.27	-0.01	0.01	0.01	0.14	-0.05	0.17	0.20
hsa-miR-27a	0.52	0.35	0.66	1.03	0.60	0.90	0.08	0.01	1.19	0.45	0.36	0.28	0.33	0.34	0.53
hsa-miR-27a*	0.52	0.36	0.86	0.63	0.19	0.62	-0.20	0.29	0.98	0.24	0.51	0.15	0.57	0.00	0.84
hsa-miR-296-3p	0.00	0.00	1.71	0.00	1.25	0.00	0.00	1.25	0.81	0.00	0.00	1.89	1.34	1.34	0.79
hsa-miR-296-5p	-1.14	-0.51	-0.24	-0.33	-0.28	-0.41	-0.55	-0.15	-0.76	-0.22	-0.63	-0.04	-0.53	-0.48	-0.30
hsa-miR-29b-1*	2.99	3.22	2.98	1.91	1.72	2.76	1.84	2.44	2.65	2.21	2.27	3.16	2.27	1.94	2.79
hsa-miR-301b	0.58	0.22	0.72	1.50	0.70	0.94	0.24	0.01	0.19	0.05	0.48	0.10	0.54	0.19	0.35
hsa-miR-302a	-2.06	-1.95	-2.21	0.15	-0.57	-1.87	-1.98	-1.95	-2.01	0.45	-1.96	-1.84	-2.17	-0.28	0.15
hsa-miR-302c	-2.04	-1.93	-1.58	-0.48	-2.35	-0.12	-1.96	-1.07	-1.99	-1.83	0.22	-1.82	-2.15	-0.14	-0.46
hsa-miR-31	0.09	-0.94	0.75	1.41	1.28	1.44	-0.48	-1.69	-0.35	-0.20	0.38	0.38	0.37	0.81	-0.48
hsa-miR-323-3p	-0.49	-0.31	-0.97	-0.28	-0.53	-0.35	-0.72	-1.04	-1.08	-0.91	-1.05	-0.72	-1.12	-1.42	-1.18
hsa-miR-324-5p	0.53	0.25	0.44	1.09	0.51	0.82	0.19	-0.26	-0.34	-0.05	0.20	0.44	-0.28	0.58	0.12
hsa-miR-326	0.47	0.00	0.11	1.74	1.17	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hsa-miR-329	1.78	0.87	0.00	1.65	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.95
hsa-miR-330-5p	0.11	0.00	1.42	1.43	1.36	1.87	0.27	0.45	0.00	0.00	0.00	0.17	0.72	1.18	1.40
hsa-miR-335	-0.15	-0.33	-0.43	0.14	-0.17	-0.06	-0.24	-1.19	-0.63	-0.67	-1.31	0.18	-0.83	-0.21	-0.29
hsa-miR-335*	0.19	0.22	0.03	0.60	0.42	0.05	0.28	-1.69	-0.56	-0.01	-1.17	0.71	-0.68	0.41	0.13
hsa-miR-337-5p	0.61	0.94	0.31	1.28	0.97	0.40	-0.27	-1.18	-0.26	-0.62	-1.97	-0.10	-0.59	-0.43	0.49
hsa-miR-338-3p	2.21	2.75	2.69	3.14	2.52	3.12	0.00	1.09	2.27	1.97	3.33	2.45	2.28	3.04	1.16
hsa-miR-33b	-2.00	-1.89	-2.15	-1.04	-2.32	-2.01	-1.93	-1.90	-1.95	-1.79	-1.91	-1.78	-2.11	-2.42	-2.19
hsa-miR-340*	0.46	0.36	0.52	1.07	0.68	0.88	0.07	-0.06	-0.23	-0.07	0.40	0.57	0.21	0.45	0.11
hsa-miR-34a	0.61	0.63	0.43	1.07	1.02	1.27	0.58	-1.12	0.65	0.48	1.07	1.62	-0.58	1.32	-0.73
hsa-miR-34a*	0.30	0.47	0.33	0.83	0.87	1.16	0.37	-1.27	0.61	0.34	0.83	1.37	-1.16	1.18	-1.24
hsa-miR-34b*	0.00	0.00	0.26	1.61	0.05	1.04	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.78	0.00
hsa-miR-34c-5p	0.70	0.46	1.36	1.93	1.49	1.60	0.00	0.00	0.74	0.00	0.27	1.41	0.00	2.07	0.00
hsa-miR-363	0.00	0.53	0.72	0.21	0.33	0.29	-0.39	-0.34	0.31	-0.32	-0.63	0.02	-0.96	0.64	-0.41

hsa-miR-363*	-1.15	-0.56	0.01	-0.74	-0.28	-0.53	-1.45	-1.25	-3.81	-3.58	-2.77	-0.72	-3.89	0.14	-3.94
hsa-miR-365	2.08	2.30	3.26	1.03	-0.48	3.15	3.08	2.32	1.81	1.85	2.61	2.12	2.47	-2.42	0.18
hsa-miR-367	-2.37	-4.16	-4.41	-0.49	-0.73	-4.27	-4.19	-2.33	-4.22	-4.06	-4.17	-3.02	-4.17	-0.71	-0.55
hsa-miR-369-3p	0.12	-0.47	-0.56	-0.04	-0.74	-0.45	-2.63	-2.60	-2.65	-2.50	-2.61	-0.29	-2.81	-3.12	-0.18
hsa-miR-370	2.19	2.88	1.50	3.72	3.04	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.29	2.31
hsa-miR-372	-0.30	-0.32	0.15	-0.02	-0.81	1.04	0.28	0.75	0.54	0.82	-0.02	0.15	0.48	-0.07	-0.81
hsa-miR-373	1.77	1.04	1.96	2.10	2.01	1.03	0.92	1.20	2.28	0.00	1.71	1.88	2.05	0.93	1.86
hsa-miR-375	-1.24	-1.61	-2.11	-1.74	-2.07	-1.43	-1.23	-2.84	-0.95	-1.89	-1.66	-2.29	-3.11	-4.24	-2.23
hsa-miR-376a	0.52	0.42	-0.40	0.84	0.58	0.15	-1.24	-1.42	-1.09	-0.94	-0.60	-0.54	-0.44	-0.55	0.00
hsa-miR-376a*	1.88	1.84	1.56	1.47	0.25	0.00	0.00	0.10	0.41	0.00	0.00	0.00	0.38	1.17	0.42
hsa-miR-376c	1.20	1.23	0.35	1.73	1.39	0.84	-0.38	-3.02	-0.62	0.10	-0.45	0.17	0.39	-0.21	0.81
hsa-miR-379	1.83	2.56	2.01	3.15	2.75	2.38	0.00	0.00	0.25	0.00	1.16	0.00	1.29	0.00	2.34
hsa-miR-380*	0.36	0.27	0.45	0.34	0.24	0.24	0.49	0.45	0.76	0.66	0.33	-1.02	0.26	0.14	0.53
hsa-miR-381	1.90	2.32	2.34	2.15	1.80	0.00	0.00	0.00	2.47	2.95	1.54	1.91	2.39	2.32	2.42
hsa-miR-382	1.29	1.13	0.00	2.78	2.26	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.01
hsa-miR-383	-1.50	-1.39	-0.62	-1.67	-0.55	-1.51	0.06	-1.39	-1.45	-1.29	-1.40	-0.94	-1.61	-1.09	-0.40
hsa-miR-409-3p	1.91	2.06	0.81	2.55	2.18	1.41	-0.93	-2.31	-1.12	0.01	-1.31	0.09	0.66	-0.41	1.42
hsa-miR-409-5p	0.00	0.00	0.00	1.87	0.67	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hsa-miR-410	-0.28	-0.26	-0.86	0.18	-0.24	-0.69	-1.86	-1.19	-1.30	-1.02	-1.85	-1.01	-1.21	-1.22	-0.67
hsa-miR-411	0.78	0.75	0.10	1.54	1.15	0.67	-0.21	-2.98	-1.28	0.18	-1.00	-0.29	0.37	-0.20	0.72
hsa-miR-411*	0.31	0.97	0.00	2.19	0.82	0.00	0.00	0.00	0.00	0.22	0.00	1.59	0.00	0.00	0.00
hsa-miR-424	2.57	2.67	2.96	3.11	2.63	3.10	0.00	1.61	1.55	0.00	1.83	2.17	2.54	2.27	2.05
hsa-miR-424*	0.36	0.00	1.23	2.67	1.70	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.82	0.00
hsa-miR-425*	0.28	0.40	0.04	0.68	0.27	0.53	-0.57	-0.99	0.58	0.12	0.00	-0.29	0.03	-0.01	-0.25
hsa-miR-429	-0.74	-0.59	-0.68	0.04	-0.22	-0.05	-0.92	-0.88	-2.45	-0.50	-0.53	-1.22	-0.75	-0.72	-0.40
hsa-miR-432	1.00	1.21	0.54	1.46	1.12	0.70	-2.65	-2.60	-2.65	-0.51	-0.82	-0.10	-0.91	-0.56	0.61
hsa-miR-433	-2.24	0.84	-0.83	0.93	0.35	-2.25	-2.17	-0.88	0.47	-0.38	-1.46	-2.02	-0.88	-2.66	-1.03
hsa-miR-449a	0.88	1.13	0.27	0.76	0.78	1.04	0.19	0.41	1.08	0.92	0.46	-0.28	0.21	0.98	0.35
hsa-miR-449b	0.06	0.25	-0.29	0.26	0.13	0.24	-0.41	-0.03	0.09	-0.18	-1.03	-0.15	-0.72	0.23	-0.42
hsa-miR-450a	0.00	2.05	2.67	2.84	2.38	2.68	0.00	0.00	0.00	1.49	0.99	0.00	2.65	1.93	0.00
hsa-miR-450b-5p	2.16	2.27	2.44	2.52	2.32	2.74	0.00	0.00	1.99	0.00	2.10	0.00	2.17	1.99	1.19
hsa-miR-451	-0.52	0.05	-1.30	-0.70	-1.22	-0.84	-2.58	-1.40	-0.13	-0.86	-1.70	-0.87	-2.17	-0.63	-1.00
hsa-miR-452	0.32	-0.14	-2.52	0.84	0.47	-0.37	-2.29	-2.27	-2.32	-2.16	-1.12	-0.64	-2.48	-2.79	-0.08

hsa-miR-455-3p	-3.10	-2.99	-3.25	-2.77	-3.41	0.71	-3.02	-3.00	-3.05	-2.89	-1.96	-2.88	-1.99	-3.51	-3.29
hsa-miR-455-5p	-1.66	-2.73	-2.55	-0.45	-0.14	1.31	-1.32	-2.73	-1.23	-2.62	-2.74	-1.93	-1.03	-1.22	-1.20
hsa-miR-483-5p	-0.95	0.10	-0.58	-0.46	-0.83	0.17	-0.17	-1.03	0.41	0.27	-0.53	-1.00	-0.45	-0.48	-0.98
hsa-miR-485-3p	1.98	1.72	1.43	2.18	1.68	1.57	0.32	0.50	0.59	1.28	0.84	0.92	1.01	0.19	1.15
hsa-miR-487a	-0.35	-0.11	0.03	-0.12	-0.27	0.06	0.24	-2.98	-0.99	-0.23	-0.53	-0.38	-1.11	-0.08	-1.48
hsa-miR-487b	0.60	0.40	-0.21	1.05	0.58	0.34	-3.09	-3.06	-0.74	-2.95	-0.85	-0.44	-0.80	-0.44	0.10
hsa-miR-489	-0.22	-0.12	-0.35	-0.12	0.00	-0.16	0.11	-0.14	-0.39	-0.17	-0.79	0.01	-0.06	-0.72	-0.11
hsa-miR-493	1.87	1.56	0.19	1.77	1.41	1.75	0.00	0.00	0.00	0.00	1.08	0.75	1.00	0.12	0.84
hsa-miR-493*	1.74	0.00	0.00	2.31	1.59	1.41	0.00	0.00	0.00	0.00	2.00	0.00	1.62	0.00	1.65
hsa-miR-495	0.33	0.44	-0.83	0.73	0.29	-0.04	-2.04	-2.49	-2.15	-0.83	-1.16	-0.58	-0.38	-1.48	-0.28
hsa-miR-497	0.13	0.18	0.16	0.24	-0.08	-0.22	-0.28	-0.35	-0.38	0.34	-0.62	-0.33	-0.59	-0.03	-0.29
hsa-miR-499-5p	0.00	1.74	1.43	0.44	0.17	0.47	0.00	0.85	0.21	0.00	0.00	1.35	0.00	1.82	0.00
hsa-miR-500*	-2.41	-0.47	0.03	0.42	0.12	0.09	-3.00	-1.61	-3.00	-1.66	-1.65	-1.27	-0.33	-0.78	-3.14
hsa-miR-501-3p	0.00	0.00	1.16	0.83	0.10	1.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hsa-miR-501-5p	-0.14	-0.01	0.26	0.44	-0.05	0.34	-0.36	-0.32	-0.61	-0.83	-0.07	-0.27	0.01	0.11	-0.70
hsa-miR-502-5p	1.52	1.74	1.62	2.33	1.98	2.19	1.04	1.30	1.09	1.47	1.14	1.81	1.57	1.88	0.94
hsa-miR-503	2.01	0.00	1.35	2.20	1.72	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.86	0.00
hsa-miR-508-3p	0.00	0.00	2.86	3.23	1.57	2.26	0.00	1.42	0.00	0.51	2.72	0.00	2.25	1.74	1.66
hsa-miR-509-5p	-1.83	-0.46	0.11	0.64	-0.39	0.40	0.50	0.08	0.12	0.35	0.55	-0.66	0.51	0.11	-0.33
hsa-miR-511	-0.80	-0.35	-0.29	-0.06	-0.60	0.12	-3.17	-1.16	-0.23	-3.03	-3.15	-3.02	-0.41	-0.58	-0.97
hsa-miR-512-3p	-0.71	2.45	-0.86	-0.88	-0.47	-0.72	-0.64	-0.02	2.05	-0.50	-0.62	-0.05	-0.82	0.53	-0.90
hsa-miR-513-5p	-1.61	-2.51	-0.85	-0.86	-2.17	-1.52	-2.11	-2.51	-2.14	-1.59	-2.52	-1.12	-1.19	-3.03	-2.18
hsa-miR-517a	0.00	2.15	1.52	0.00	0.00	0.00	0.00	2.15	2.81	2.15	0.00	0.00	0.51	0.10	0.00
hsa-miR-517c	0.12	2.06	1.81	0.00	0.00	0.65	0.00	0.81	2.50	1.82	0.00	0.00	0.44	0.33	0.00
hsa-miR-518d-3p	-0.17	-0.36	-0.79	-0.89	-1.03	-0.73	-0.34	1.16	-0.67	-0.01	0.37	-0.50	0.77	-1.13	-0.91
hsa-miR-518e	1.24	1.26	0.00	0.88	0.00	1.57	1.10	1.64	1.82	0.00	0.00	1.26	0.34	0.18	0.00
hsa-miR-518f	1.74	2.40	1.32	0.30	0.00	1.03	1.65	0.98	2.19	1.96	0.80	1.51	1.48	0.10	0.00
hsa-miR-519a	0.97	1.99	1.88	0.00	0.09	1.92	1.88	0.41	2.45	1.93	2.18	0.81	2.31	0.00	0.00
hsa-miR-519b-3p	-1.68	-0.11	-0.40	-0.53	-0.65	-1.35	-1.63	-0.08	-0.27	-0.18	-0.34	-0.45	-0.23	-0.51	-0.65
hsa-miR-519d	-1.45	-0.55	-3.11	-1.17	-1.28	-2.97	-2.88	-2.85	-0.11	-2.75	-2.86	-2.74	-3.07	-0.84	-0.37
hsa-miR-519e	-0.67	0.85	-0.71	-0.50	0.07	0.46	1.27	-0.39	1.49	-0.46	1.23	-0.35	-0.78	-0.18	0.24
hsa-miR-520b	-0.16	-0.38	-0.01	-0.50	0.01	0.08	0.06	-0.62	-0.33	0.05	-0.34	0.04	-2.29	-0.34	-0.15
hsa-miR-520f	-3.49	-0.83	-1.09	-0.61	-0.32	-3.50	-1.14	-0.73	-0.66	-3.28	-0.85	-1.10	-3.60	-0.58	0.08



hsa-miR-523	-0.67	-1.22	0.33	1.13	0.38	-0.02	1.21	-1.48	1.25	1.05	-0.75	0.24	0.62	0.65	0.94
hsa-miR-524-3p	-0.91	-0.99	-0.37	-1.12	-1.45	-1.80	-0.82	-0.26	0.18	-1.63	-0.06	-1.83	-1.93	-2.17	-1.03
hsa-miR-539	1.79	1.71	1.24	2.13	1.63	1.39	0.17	-2.35	-0.50	0.33	0.68	-1.00	0.74	-0.26	0.97
hsa-miR-541*	-1.55	-1.33	-1.54	-1.57	-1.67	-1.38	-1.43	-1.38	-1.43	-0.75	-0.33	-1.41	-0.59	-1.75	-1.15
hsa-miR-542-3p	2.30	1.83	2.05	2.39	1.78	2.29	1.11	0.00	0.00	0.00	1.25	1.26	0.12	1.34	0.00
hsa-miR-543	2.03	1.88	-0.96	2.88	2.40	1.14	-0.88	-0.83	-0.89	-0.66	0.40	0.57	0.61	-0.41	-0.54
hsa-miR-545*	1.29	1.40	1.86	1.68	1.54	1.72	1.00	1.31	1.00	1.59	-1.57	0.88	1.49	1.50	1.00
hsa-miR-548a-3p	1.56	0.00	1.77	0.90	1.61	1.85	1.84	1.72	1.72	2.12	2.01	2.00	1.95	1.41	1.27
hsa-miR-548a-5p	-1.98	-1.87	-2.12	-2.14	-2.29	0.24	-1.90	-1.87	-1.92	-1.77	-1.88	-1.75	-2.08	-2.39	-2.17
hsa-miR-548b-5p	0.16	1.09	0.90	0.71	-0.28	1.28	0.79	0.29	1.66	0.74	0.15	-0.59	0.36	0.33	-0.44
hsa-miR-548c-3p	-2.85	-2.74	-0.17	-0.94	-3.16	-2.86	-2.77	-0.50	-0.53	-0.22	-1.57	-0.43	-0.76	-3.27	-0.19
hsa-miR-548d-3p	2.16	2.28	2.58	2.66	1.09	2.31	2.47	1.96	1.88	0.00	2.37	2.07	2.36	1.62	0.74
hsa-miR-550	0.05	0.42	0.48	0.44	0.11	0.83	0.65	0.24	0.23	0.61	0.73	-0.02	-0.68	0.22	0.17
hsa-miR-550*	-0.41	-0.49	-0.31	-0.04	-0.23	-0.39	-0.37	-0.89	-0.43	-0.94	-0.63	-0.53	-1.30	-0.46	-0.67
hsa-miR-551b	-2.06	-4.86	-2.83	-0.95	-1.22	-2.02	-4.89	-4.86	-4.92	-4.76	-4.87	-4.75	-5.08	-1.27	-1.07
hsa-miR-555	0.00	2.09	1.89	2.31	1.84	2.03	2.20	0.00	1.54	2.08	1.75	1.47	1.81	1.93	1.23
hsa-miR-559	-0.98	-0.85	-0.20	-0.82	-1.19	-0.90	-0.53	0.39	0.30	0.79	0.06	-0.25	-0.42	-1.27	0.31
hsa-miR-565	-0.59	0.67	0.00	-0.31	-0.36	0.18	-0.09	-0.14	0.74	0.80	0.28	-0.54	0.34	-0.43	0.06
hsa-miR-566	-0.98	0.84	0.39	0.86	-0.14	0.22	0.02	-1.37	1.17	0.79	-0.11	-0.47	-0.04	-0.05	-0.45
hsa-miR-570	1.49	1.65	1.50	2.19	2.13	2.56	0.00	1.64	1.07	1.45	1.87	1.65	0.94	1.85	2.05
hsa-miR-572	-0.35	0.26	0.03	0.25	-0.57	0.40	0.19	-0.20	0.98	0.56	-0.67	-0.07	-0.46	-0.15	-0.11
hsa-miR-573	-0.50	-0.69	-0.93	-2.07	-1.61	-3.53	-0.28	-0.77	-0.32	0.18	-0.07	-0.59	-0.44	-0.59	-0.98
hsa-miR-575	0.18	1.82	0.32	1.99	0.31	0.89	0.15	0.00	2.67	2.75	0.33	0.00	0.33	0.76	0.00
hsa-miR-576-5p	0.82	1.20	0.47	0.70	0.00	0.91	1.24	0.85	0.88	0.53	1.24	0.29	1.12	0.65	0.00
hsa-miR-581	0.58	0.60	2.07	1.69	1.01	1.17	0.69	2.17	1.49	0.00	1.96	0.94	1.74	1.52	1.34
hsa-miR-582-3p	1.41	0.00	1.80	0.00	0.00	1.77	0.46	0.00	1.31	0.00	0.00	0.00	0.20	0.00	0.00
hsa-miR-584	1.28	0.42	-0.76	1.73	0.95	-1.52	-0.57	-0.10	0.67	0.41	-1.34	-0.12	-1.50	-0.59	0.35
hsa-miR-586	-0.19	-0.06	-0.11	-0.50	-0.36	-1.60	-0.59	-0.62	0.08	0.17	-0.15	-0.61	-0.20	-0.51	-0.53
hsa-miR-591	0.00	2.59	2.46	1.54	2.06	1.46	0.00	1.06	2.75	2.38	1.59	0.00	0.44	1.45	1.44
hsa-miR-592	-2.84	-2.90	-1.74	-0.40	-0.83	-2.96	-3.00	-0.78	-0.47	-2.78	-2.97	-2.99	-1.05	-3.32	-3.14
hsa-miR-599	1.37	1.59	1.31	0.40	1.46	0.00	1.86	0.00	0.00	2.32	1.82	0.00	0.00	0.00	1.25
hsa-miR-604	-1.06	-0.75	-0.34	0.21	-0.38	-0.54	-1.45	-0.87	-0.66	-0.03	-0.90	-0.36	-1.26	-0.16	-1.07
hsa-miR-605	-2.56	0.22	-0.53	-0.90	-2.68	-2.39	-2.44	-2.39	0.64	1.62	0.67	-2.42	-2.52	-1.60	-2.58

hsa-miR-606	-0.58	0.28	-0.74	-1.23	-1.59	-1.30	-1.35	-0.62	0.19	-1.13	-0.65	-1.33	-0.54	-1.03	-0.07
hsa-miR-613	1.62	2.37	0.00	0.69	0.35	1.22	0.00	0.00	1.97	2.06	1.32	0.29	1.52	0.49	0.27
hsa-miR-616	-1.83	0.32	0.93	0.12	-0.63	0.22	-0.35	0.03	1.26	0.57	0.18	-1.95	0.28	-0.17	-0.13
hsa-miR-618	0.11	0.80	0.78	1.17	0.45	1.11	0.17	-0.29	0.62	0.53	-2.21	-0.11	0.44	0.45	0.18
hsa-miR-623	-1.82	-2.52	-1.73	-0.99	-2.81	-0.62	-0.73	-2.57	-0.42	-1.29	-0.68	-1.31	-2.34	-1.77	-2.96
hsa-miR-624*	-0.03	-0.26	-0.31	0.14	0.06	0.12	-0.49	-0.39	-0.83	-0.07	-0.16	-0.27	0.18	-0.60	0.33
hsa-miR-626	-0.78	-2.33	0.35	-0.38	0.34	-1.02	-0.07	-2.38	0.43	-2.21	-0.11	-0.85	0.09	0.02	-1.87
hsa-miR-635	-2.49	-0.66	-1.00	-0.58	-2.16	-0.69	-2.59	-2.95	-0.50	-0.68	-2.97	-2.98	-0.88	-2.47	-3.01
hsa-miR-640	-1.93	-0.17	-0.97	-1.73	-2.04	-0.31	-1.81	-1.76	1.33	-0.88	-0.92	-1.55	-1.89	-2.12	-1.24
hsa-miR-641	0.44	0.24	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
hsa-miR-642	-0.47	-1.25	-0.61	0.14	-0.38	0.24	0.06	-1.54	-0.81	-1.43	0.03	-0.95	-0.49	0.02	-0.63
hsa-miR-644	-0.67	0.43	-0.22	0.31	0.11	0.03	-0.12	-0.50	1.08	0.29	-0.14	-0.51	-1.07	-0.07	-0.49
hsa-miR-645	-0.89	-0.23	-0.91	-0.67	-1.31	-0.92	-0.32	-0.31	-0.12	-0.38	-0.32	-0.30	-0.50	-1.16	-0.64
hsa-miR-648	0.00	0.00	0.00	0.35	0.00	0.10	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.05	0.07
hsa-miR-649	0.11	2.28	1.38	2.37	1.63	2.30	0.46	0.00	2.40	1.68	0.25	0.29	0.78	0.84	1.19
hsa-miR-650	-2.54	-1.63	0.48	-1.64	-2.95	-3.60	-1.02	-2.07	-1.12	-1.42	-2.27	-2.59	-3.95	-3.93	-2.10
hsa-miR-651	1.13	1.79	1.69	1.92	0.56	2.00	1.94	0.00	1.15	2.13	1.46	0.00	1.26	0.50	1.87
hsa-miR-654-3p	2.56	2.32	0.00	2.99	1.99	1.84	0.00	0.00	0.00	0.00	0.00	2.10	0.74	0.00	2.42
hsa-miR-655	2.78	2.88	1.99	3.01	2.75	2.44	0.00	0.00	1.26	0.00	0.00	2.08	2.12	1.31	0.00
hsa-miR-656	0.09	0.30	0.16	0.64	0.19	0.00	-1.79	-0.46	-0.45	0.12	-0.25	-0.24	-0.04	-0.36	0.07
hsa-miR-659	-1.02	-0.89	-0.49	-1.88	-1.59	-1.71	-0.79	-0.22	-0.61	-0.24	-0.24	-0.23	-0.67	-1.16	-0.59
hsa-miR-660	0.41	0.50	0.46	0.54	0.41	0.23	-0.08	0.19	0.21	0.09	0.11	0.45	0.12	0.40	-1.58
hsa-miR-662	-1.40	0.50	0.15	-1.42	0.48	-1.23	-1.28	-1.23	0.04	-0.53	-1.25	-0.19	-1.36	0.22	-1.42
hsa-miR-671-3p	-0.07	-0.18	0.05	0.21	-0.11	-0.07	-0.08	-0.21	-0.50	-0.12	0.00	0.11	-0.16	-0.14	-4.57
hsa-miR-672	0.00	0.76	1.12	1.03	0.58	0.00	0.00	0.00	2.01	0.94	0.31	0.00	0.00	0.73	0.00
hsa-miR-708	-1.55	-0.24	-1.84	0.30	-1.13	-0.41	0.06	-1.47	-0.42	0.28	-2.06	-0.93	-1.44	-0.93	-0.28
hsa-miR-708*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.10
hsa-miR-758	1.28	0.31	0.00	1.93	1.33	0.18	0.00	0.00	0.86	0.00	0.00	0.00	0.66	0.00	0.07
hsa-miR-769-3p	1.38	0.54	1.59	0.25	2.23	1.34	0.00	1.34	0.00	0.00	1.67	0.00	1.49	1.73	0.86
hsa-miR-770-5p	-1.25	-1.07	-1.12	-0.53	-1.25	-1.65	-1.21	-3.57	-1.54	-0.09	-0.81	-1.92	-0.85	-3.94	-1.45
hsa-miR-801	-0.80	0.25	0.30	0.43	-0.19	0.14	-0.42	-1.13	0.70	-0.09	-0.24	-1.32	-0.30	-0.04	-0.40
hsa-miR-873	1.66	1.16	0.64	1.91	1.24	2.22	0.00	0.00	1.28	2.14	1.63	1.40	0.24	0.64	0.00
hsa-miR-874	-0.99	-3.51	0.61	0.16	0.17	0.62	-1.31	-0.10	-0.51	-3.41	-0.14	-0.44	-0.19	0.44	-0.25

hsa-miR-876-5p	0.00	0.00	1.05	1.95	0.27	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00
hsa-miR-885-5p	-1.28	-1.73	-1.03	-0.61	-1.03	-0.67	-1.22	-1.47	-1.33	-1.25	-1.27	-1.02	-0.97	-1.52	-1.43
hsa-miR-886-3p	-1.16	0.08	-0.75	-0.71	-0.71	-0.52	-0.93	-2.52	1.68	0.57	-0.58	-3.08	-1.94	-0.36	-4.53
hsa-miR-886-5p	-0.28	0.23	-0.42	-0.90	-0.92	-0.22	-0.20	-0.81	1.58	0.88	-0.04	-1.53	-1.06	-0.70	-2.31
hsa-miR-888	-0.67	1.20	-1.30	1.50	-1.49	-0.18	-0.15	0.97	0.36	-0.56	0.66	-0.41	-0.32	-0.23	0.94
hsa-miR-889	2.55	2.04	1.86	2.98	2.55	2.10	0.00	0.00	1.21	0.77	0.00	0.00	0.22	0.00	1.77
hsa-miR-892b	1.22	0.44	1.79	0.66	0.50	0.57	1.44	1.72	0.50	0.72	0.99	1.67	1.16	1.10	1.18
hsa-miR-9	-0.49	-1.02	-0.54	-0.04	-0.47	-0.20	-0.54	-2.24	-1.56	-1.48	-0.98	-0.92	-0.86	-0.80	-1.03
hsa-miR-9*	-0.47	-0.46	-0.17	0.22	-0.08	0.03	-0.18	-1.25	-0.87	-0.90	-0.62	-0.59	-0.67	-0.56	-0.63
hsa-miR-922	1.12	3.17	2.57	3.17	2.31	1.88	1.91	1.50	3.28	2.91	1.83	1.38	2.30	2.38	1.98
hsa-miR-923	-0.24	0.03	-0.30	-0.03	-0.31	-0.74	-0.14	-0.95	0.54	0.02	0.08	-0.33	-0.53	-1.98	-0.42
hsa-miR-92a-2*	-2.04	-1.82	-0.95	-2.06	-2.16	-1.87	-1.92	-1.87	-1.92	-1.70	-1.89	-1.90	-2.00	-2.24	-2.06
hsa-miR-937	-1.03	0.08	-1.02	1.04	-1.14	-0.86	-0.45	-0.86	1.45	1.03	-0.87	-0.89	-0.99	-0.08	-1.04
hsa-miR-938	0.00	0.13	0.14	1.72	0.08	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
hsa-miR-939	2.29	3.14	2.59	2.62	2.71	1.74	2.42	0.00	3.53	3.43	2.10	2.51	2.24	2.31	2.56
hsa-miR-941	-0.21	-0.99	0.32	0.97	0.32	0.91	-1.17	-0.79	-1.08	-1.66	0.43	-1.12	-0.06	0.22	-1.17
hsa-miR-944	-2.70	-0.19	0.15	0.42	-0.51	0.22	-0.51	-2.53	-1.80	-0.71	-2.54	-0.68	-0.31	-0.07	-0.72
hsa-miR-95	0.04	-0.71	-0.49	0.32	0.28	-0.29	-0.33	0.38	-0.33	0.45	-0.26	0.39	0.58	-0.03	0.13
hsa-miR-96	0.60	1.88	0.42	0.29	0.00	0.00	1.85	1.14	0.73	0.00	0.00	0.99	0.00	0.00	0.00
hsa-miR-98	0.24	0.00	1.06	1.39	0.07	1.18	0.94	0.00	0.28	0.85	1.10	0.74	0.00	1.42	1.46
hsa-miR-99a	-0.13	-1.00	-0.52	0.01	-0.33	0.20	-3.90	-1.65	-1.32	-1.50	-1.59	-0.91	-0.72	-1.00	-1.60
hsa-miR-99a*	0.56	0.00	0.00	1.64	0.32	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00
hsa-miR-99b	0.02	-0.48	-0.46	-0.06	-0.16	0.12	-2.21	-2.05	-1.44	-1.31	-0.64	-0.66	-0.55	-0.44	-0.55
hsa-miR-99b*	-0.21	-0.37	-1.11	-0.42	-0.42	-0.96	-0.77	-0.82	-1.73	-0.70	-0.52	-0.58	-0.52	-1.01	-0.80

**Supplementary Table 3a. Subgroups of leukemic MCL according IGHV status and core miR expression clusters and related data**

Case ID	IGHV(%)	IGHV	CC	Subgroups	SOX11	FU	Status	Nodal	CNA	CNA (0-1)	CNA (2-4)	CNA(>= 5)	TTT	Arrays	T*	Treatment details
MCL1	95.49	M	A	MA	31.25	107.6	alive	present	n/a	n/a	n/a	n/a	1.8	no	1	CHOPx7
MCL2	100	U	A	UA	19.56	39	alive	present	4	0	1	0	0	yes	1	RCHOPx6
MCL3	100	U	A	UA	12.58	79	alive	present	2	0	1	0	1.46	yes	1	CLB/splenectomy
MCL4	100	U	A	UA	11.32	15	dead	present	12	0	0	1	4.23	yes	1	CLB/fludarabine
MCL5	99.31	U	A	UA	38.83	29	alive	present	19	0	0	1	0.86	yes	2	RDHAP/RCHOP
MCL6	100	U	A	UA	23.9	0.3	dead	present	10	0	0	1	0.03	no	1	CPA
MCL7	99.1	U	A	UA	42.13	72	alive	present	3	0	1	0	8.23	no	1	RCHOP/IFN
MCL8	100	U	C	UC	19.35	8	dead	present	6	0	0	1	2.36	yes	2	hiper-CVADR
MCL9	99.33	U	C	UC	51.41	52.52	alive	absent	18	0	0	1	4.66	no	1	EPOCHRB
MCL10	100	U	C	UC	21.24	34.76	alive	present	6	0	0	1	0.76	no	1	EPOCHRB
MCL11	98.61	U	C	UC	24.79	4	dead	present	9	0	0	1	0.5	no	1	CPA/PDN
MCL12	98.6	U	C	UC	61.4	8.7	dead	present	5	0	0	1	1	no	1	EPOCHRB
MCL13	98.63	U	C	UC	0.35	15	alive	present	n/a	n/a	n/a	n/a	-	no	0	-
MCL14	100	U	C	UC	6.48	56	dead	absent	n/a	n/a	n/a	n/a	3.13	no	1	CLB/splenectomy
MCL15	91.48	M	C	MC	5.32	129	alive	present	n/a	n/a	n/a	n/a	-	yes	0	-
MCL16	94.81	M	C	MC	4.14	80	alive	absent	0	1	0	0	-	yes	0	-
MCL17	94.74	M	C	MC	0.83	80	alive	n/a	0	1	0	0	-	yes	0	-
MCL18	87.68	M	C	MC	6.25	14.73	alive	present	7	0	0	1	6.3	yes	1	CLB/PDN
MCL19	95.79	M	C	MC	25.93	114.96	alive	absent	1	1	0	0	8	no	1	EPOCHR
MCL20	97.22	M	C	MC	1.41	100.09	alive	absent	0	1	0	0	83	no	1	EPOCHRB
MCL21	94.1	M	C	MC	0.14	44	alive	absent	0	1	0	0	-	no	0	-
MCL22	92.4	M	B	MB	0.33	60	alive	present	0	1	0	0	0	yes	1	RMCP
MCL23	93.18	M	B	MB	0.36	8	dead	absent	2	0	1	0	4.4	yes	1	CLB/PDN
MCL24	89.93	M	B	MB	0.78	84	alive	absent	1	1	0	0	0	yes	1	CHOP
MCL25	97.25	M	B	MB	0.03	28	alive	n/a	n/a	n/a	n/a	n/a	1.5	yes	2	RDHAPx3/RCHOPx3
MCL26	97	M	B	MB	0	52	alive	absent	0	1	0	0	2.3	yes	1	CLB
MCL27	95.45	M	B	MB	8.8	121	alive	absent	0	1	0	0	-	yes	0	-
MCL28	93.69	M	B	MB	0.55	70.4	alive	absent	1	1	0	0	48	yes	1	RCHOP
MCL29	97.19	M	exc	exc	0.02	149.3	dead	absent	n/a	n/a	n/a	n/a	147.1	no	1	BORTEZOMIB
MCL30	93.24	M	exc	exc	0.66	49	alive	absent	n/a	n/a	n/a	n/a	10.26	no	1	RCHOP

\* Treatment (2=Intensive; 1=Conventional; 0=Not treated)

Abbreviations: CC: Consensus Core cluster; CHOP: Cyclophosphamide/Doxorubicin/Vincristine/Prednisone; CLB: Chlorambucil; CNA ( ): Copy Number Alterations (range); CPA: Cyclophosphamide; DHAP-Dexamethasone/AraC/cisplatin; exc: excluded for core cluster definition; FU: Follow up (months); IFN: Interferon; M: mutated *IGHV*; MCP- Mitoxantrone/Chlorambucil/Prednisolone; n/a: data not available; PDN-Prednisone; R:Rituximab (also in combined acronyms) TTT: Time To Treatment; U: unmutated *IGHV*.

**Supplementary Table 3b. Additional data in leukemic MCL with studied mRNA by arrays**

Case ID	PS	mir181a	mir181c	ATM	11q status	gains	losses
MCL2	-0.39	-0.19	0.05	8.63	Del	8q22.1-qter	10pter-p12.2, 11p12, 11q14.3-q23.3
MCL3	0.35	-0.25	0.06	7.33	Wt	3q21.2-qter	9q13-q21.33
MCL4	0.58	-0.22	-0.29	7.43	Del	3q26.1-qter, 9q31.2-q33.1, amp9q33.1-q33.3, 11q13-q14.3, 14q11.2, 14q24.1-q24.1, 14q24.3-q31.1	3p22.1-p12.3, 9pter-q31.2, 11q22.2-q22.3, 13q12.3-q31.1, 13q31.3-qter
MCL5	0.64	-0.05	-0.07	8.69	Del	3q12-qter, 5p15.33, 8q22.3-qter, 15q15.3-q21.1, 15q21.1-q24.1, 15q24.1-q26.1, 15q26.2-qter	4q35.2-qter, 8pter-p21.2, 11q14.2-q23.3, 14q, 15q11.2-q15.3, 15q21.1, 15q24.1, 15q26.1-q26.2
MCL8	-0.53	-0.01	0.02	8.99	Del	7pter-p12.3, 8q21-qter, Xq27.3-qter	8pter-p12, 9p24.1, 11q21-q23.2
MCL15	-0.50	-0.32	-0.20	9.52	n/a	n/a	n/a
MCL16	-0.60	-1.17	-0.94	10.08	Wt	0	0
MCL17	-0.53	-1.28	-1.20	8.85	Wt	0	0
MCL18	-0.06	-0.58	-0.38	9.42	Wt	3q26.1-q26.3, 11q13.2-q13.4, 12q13.13-qter, 17q12-qter	7q31.32-q31.33, 17p
MCL22	0.14	-1.78	-1.18	9.01	Wt	0	0
MCL23	-0.34	-2.20	-1.54	9.52	Wt	3q24-qter	17pter-p11.2
MCL24	0.10	-1.40	-1.23	9.06	Wt	0	17pter-p11.2
MCL25	0.03	-1.31	-1.36	9.26	n/a	n/a	n/a
MCL26	-0.41	-1.31	-1.19	9.67	Wt	0	0
MCL27	0.56	-0.32	-0.47	10.27	Wt	0	0
MCL28	0.96	-1.04	-0.76	9.32	Wt	0	17pter-p12

Abbreviations: PS: Proliferation signature; Del: hemizygous deletion; Wt: wild type; n/a: data not available

Supplementary Table 4a. Results of supervised Limma analysis between Unmutated vs Mutated *IGHV* MCL

miR ID	log Fold Change	adjusted <i>P</i> -Value
hsa-miR-708	1.43	1.10E-04
hsa-miR-455-5p	2.43	1.10E-04
hsa-miR-455-3p	2.55	2.30E-04
hsa-miR-141*	1.27	2.30E-04
hsa-miR-183*	1.76	1.80E-03
hsa-miR-708*	0.72	4.44E-03
hsa-miR-183	1.49	5.75E-03
hsa-miR-141	0.75	5.75E-03
hsa-miR-181a	0.79	1.09E-02
hsa-miR-193a-5p	0.53	1.09E-02
hsa-miR-200c	0.58	1.09E-02
hsa-miR-25*	0.69	1.64E-02
hsa-miR-181c	0.64	1.64E-02
hsa-miR-193b*	1.45	1.64E-02
hsa-miR-181a-2*	0.91	2.29E-02
hsa-miR-193a-3p	1.09	2.29E-02
hsa-miR-96	1.20	4.38E-02

**Supplementary Table 4b. Results of supervised Limma analysis between High vs Low SOX11 expressing MCL**

<b>miR ID</b>	<b>log Fold Change</b>	<b>adjusted <i>P</i>-Value</b>
hsa-miR-141*	1.39	2.00E-05
hsa-miR-455-5p	2.42	9.00E-05
hsa-miR-183*	1.88	4.10E-04
hsa-miR-455-3p	2.43	6.30E-04
hsa-miR-181c	0.76	1.03E-03
hsa-miR-181a-2*	1.11	1.03E-03
hsa-miR-181a	0.89	1.03E-03
hsa-miR-141	0.79	1.65E-03
hsa-miR-183	1.55	1.73E-03
hsa-miR-181c*	1.49	1.81E-03
hsa-miR-708	1.19	1.81E-03
hsa-miR-193a-5p	0.55	4.30E-03
hsa-miR-96	1.42	4.51E-03
hsa-miR-324-5p	0.49	1.72E-02
hsa-miR-200c	0.54	2.15E-02
hsa-miR-193a-3p	1.09	2.15E-02
hsa-miR-25*	0.67	2.60E-02
hsa-miR-34b*	0.74	3.17E-02
hsa-miR-340*	0.41	3.79E-02
hsa-miR-17*	0.40	3.91E-02
hsa-miR-193b*	1.31	3.97E-02
hsa-miR-9*	0.44	3.97E-02

**Supplementary Table 5a. Overlapping of miR lists from Venn diagram (Supplementary Figure 2)**

<b>miR</b>	<b>UC vs MC *</b>	<b>UC vs MB *</b>	<b>UA vs MB *</b>	<b>MC vs UA *</b>	<b>Total n° groups</b>
hsa-miR-455-5p	1	1	1	1	4
hsa-miR-455-3p	1	1	1	1	4
hsa-miR-708	1	1	1	1	4
hsa-miR-141*	0	1	1	1	3
hsa-miR-183*	0	1	1	1	3
hsa-miR-183	0	1	1	1	3
hsa-miR-200c	0	1	1	1	3
hsa-miR-181a	0	1	1	0	2
hsa-miR-181a-2*	0	1	1	0	2
hsa-miR-363*	0	1	1	0	2
hsa-miR-324-5p	0	1	1	0	2
hsa-miR-181c	0	1	1	0	2
hsa-miR-106b*	0	1	1	0	2
hsa-miR-340*	0	1	1	0	2
hsa-miR-193b*	0	1	1	0	2
hsa-miR-511	0	1	1	0	2
hsa-miR-363	0	1	1	0	2
hsa-miR-17*	0	1	1	0	2
hsa-miR-551b	0	1	1	0	2
hsa-miR-141	0	1	1	0	2
hsa-miR-193a-3p	0	1	1	0	2
hsa-miR-135a	0	1	1	0	2
hsa-miR-203	0	1	1	0	2
hsa-miR-181c*	0	1	1	0	2
hsa-miR-570	0	1	1	0	2



hsa-miR-497	0	1	1	0	2
hsa-miR-370	0	1	0	1	2
hsa-miR-889	0	1	0	1	2
hsa-miR-409-3p	0	1	0	1	2
hsa-miR-543	0	1	0	1	2
hsa-miR-376a	0	1	0	1	2
hsa-miR-379	0	1	0	1	2
hsa-miR-432	0	1	0	1	2
hsa-miR-199a-5p	0	1	0	1	2
hsa-miR-542-3p	0	1	0	1	2
hsa-miR-539	0	1	0	1	2
hsa-miR-655	0	1	0	1	2
hsa-miR-26a-1*	0	1	0	1	2
hsa-miR-376c	0	1	0	1	2
hsa-miR-487b	0	1	0	1	2
hsa-miR-1	0	1	0	1	2
hsa-miR-136*	0	1	0	1	2
hsa-miR-424	0	1	0	1	2
hsa-miR-410	0	1	0	1	2
hsa-miR-134	0	1	0	1	2
hsa-miR-199b-5p	0	1	0	1	2
hsa-miR-199a-3p	0	1	0	1	2
hsa-miR-126	0	1	0	1	2
hsa-miR-369-3p	0	1	0	1	2
hsa-miR-126*	0	1	0	1	2
hsa-miR-127-3p	0	1	0	1	2
hsa-miR-337-5p	0	1	0	1	2
hsa-miR-424*	0	1	0	1	2
hsa-miR-224	0	1	0	1	2
hsa-miR-495	0	1	0	1	2
hsa-miR-382	0	1	0	1	2
hsa-miR-411	0	1	0	1	2
hsa-miR-329	0	1	0	1	2

hsa-miR-559	0	1	0	1	2
hsa-miR-450b-5p	0	1	0	1	2
hsa-miR-493	0	1	0	1	2
hsa-miR-452	0	1	0	1	2
hsa-miR-450a	0	1	0	1	2
hsa-miR-143	0	1	0	1	2
hsa-miR-221	0	1	0	1	2
hsa-miR-25*	0	1	0	1	2
hsa-miR-107	0	1	0	1	2
hsa-miR-485-3p	0	1	0	1	2
hsa-miR-96	0	0	1	1	2
hsa-miR-182	0	0	1	1	2
hsa-miR-708*	0	0	1	1	2
hsa-miR-130a	0	1	0	0	1
hsa-miR-9*	0	1	0	0	1
hsa-miR-9	0	1	0	0	1
hsa-miR-22	0	1	0	0	1
hsa-miR-99b	0	1	0	0	1
hsa-miR-181a*	0	1	0	0	1
hsa-miR-218	0	1	0	0	1
hsa-miR-941	0	1	0	0	1
hsa-miR-15b*	0	1	0	0	1
hsa-miR-193b	0	1	0	0	1
hsa-miR-22*	0	1	0	0	1
hsa-miR-193a-5p	0	1	0	0	1
hsa-miR-34b*	0	1	0	0	1
hsa-miR-125a-5p	0	1	0	0	1
hsa-miR-130b*	0	1	0	0	1
hsa-miR-502-5p	0	1	0	0	1
hsa-let-7f-2*	0	1	0	0	1
hsa-miR-659	0	1	0	0	1
hsa-miR-20b*	0	1	0	0	1
hsa-miR-449b	0	1	0	0	1

hsa-miR-656	0	1	0	0	1
hsa-miR-409-5p	0	1	0	0	1
hsa-miR-518f	0	1	0	0	1
hsa-miR-330-5p	0	1	0	0	1
hsa-miR-138	0	1	0	0	1
hsa-miR-148a	0	1	0	0	1
hsa-miR-545*	0	1	0	0	1
hsa-miR-449a	0	1	0	0	1
hsa-miR-218-2*	0	1	0	0	1
hsa-miR-301b	0	1	0	0	1
hsa-miR-335	0	1	0	0	1
hsa-miR-944	0	1	0	0	1
hsa-miR-211	0	1	0	0	1
hsa-miR-21*	0	1	0	0	1
hsa-miR-367	0	1	0	0	1
hsa-miR-200a	0	1	0	0	1
hsa-miR-645	0	1	0	0	1
hsa-miR-500*	0	1	0	0	1
hsa-miR-202	0	1	0	0	1
hsa-miR-26a-2*	0	1	0	0	1
hsa-miR-146a	0	1	0	0	1
hsa-miR-34c-5p	0	1	0	0	1
hsa-miR-519a	0	1	0	0	1
hsa-miR-184	0	0	1	0	1
hsa-miR-375	0	0	1	0	1
hsa-miR-204	0	0	0	1	1
hsa-miR-31	0	0	0	1	1
hsa-miR-145	0	0	0	1	1
hsa-miR-133a	0	0	0	1	1
hsa-miR-503	0	0	0	1	1
hsa-miR-125b	0	0	0	1	1
hsa-miR-326	0	0	0	1	1
hsa-miR-10a	0	0	0	1	1

hsa-miR-133b	0	0	0	1	1
hsa-miR-27a	0	0	0	1	1
hsa-miR-433	0	0	0	1	1
hsa-miR-518d-3p	0	0	0	1	1
hsa-miR-493*	0	0	0	1	1
hsa-miR-451	0	0	0	1	1
hsa-miR-323-3p	0	0	0	1	1
hsa-miR-139-5p	0	0	0	1	1

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\* Coding in columns: 1=present / 0=absent

**Supplementary Table 5b. Results of supervised Limma analysis between the different MCL subgroups**

MC vs MB			UA vs MB		
miR ID	log Fold change	adjusted <i>P</i> -value	miR ID	log Fold change	adjusted <i>P</i> -value
hsa-miR-370	2.57	0	hsa-miR-455-5p	3.27	5.00E-05
hsa-miR-889	2.05	1.00E-05	hsa-miR-183*	2.66	5.00E-05
hsa-miR-199a-5p	2.57	2.00E-05	hsa-miR-183	2.59	5.00E-05
hsa-miR-409-3p	2.53	7.00E-05	hsa-miR-455-3p	3.22	1.20E-04
hsa-miR-134	1.83	1.00E-04	hsa-miR-141*	1.76	3.90E-04
hsa-miR-432	2.51	1.00E-04	hsa-miR-181c	1.03	1.50E-03
hsa-miR-379	2.08	1.00E-04	hsa-miR-181a	1.17	1.68E-03
hsa-miR-1	2.20	1.10E-04	hsa-miR-181a-2*	1.33	2.63E-03
hsa-miR-376a	1.23	1.10E-04	hsa-miR-96	2.01	2.85E-03
hsa-miR-199a-3p	1.12	1.10E-04	hsa-miR-363*	2.08	6.14E-03
hsa-miR-539	1.97	1.40E-04	hsa-miR-141	1.09	6.88E-03
hsa-miR-542-3p	1.57	1.40E-04	hsa-miR-708	1.49	6.88E-03
hsa-miR-26a-1*	2.05	1.40E-04	hsa-miR-324-5p	0.66	1.41E-02
hsa-miR-655	1.89	2.40E-04	hsa-miR-200c	0.85	1.58E-02
hsa-miR-126	1.16	7.10E-04	hsa-miR-511	1.56	1.67E-02
hsa-miR-126*	1.12	8.60E-04	hsa-miR-184	1.12	1.86E-02
hsa-miR-224	2.27	8.60E-04	hsa-miR-182	1.94	1.89E-02
hsa-miR-376c	1.70	8.60E-04	hsa-miR-363	0.86	1.89E-02
hsa-miR-424	1.45	8.60E-04	hsa-miR-497	0.66	2.52E-02
hsa-miR-487b	2.17	8.60E-04	hsa-miR-551b	2.50	2.52E-02
hsa-miR-130a	1.08	8.60E-04	hsa-miR-570	0.91	2.83E-02
hsa-miR-369-3p	1.98	1.70E-03	hsa-miR-135a	0.84	2.83E-02
hsa-miR-410	1.02	1.99E-03	hsa-miR-375	1.00	3.28E-02

hsa-miR-199b-5p	1.76	2.26E-03	hsa-miR-106b*	0.64	3.28E-02
hsa-miR-543	1.83	2.39E-03	hsa-miR-708*	0.83	3.28E-02
hsa-miR-363*	1.98	2.67E-03	hsa-miR-203	1.80	3.88E-02
hsa-miR-511	1.67	2.92E-03	hsa-miR-193b*	1.85	3.88E-02
hsa-miR-143	1.16	3.55E-03	hsa-miR-17*	0.56	4.31E-02
hsa-miR-99b	1.16	4.99E-03	hsa-miR-340*	0.52	4.31E-02
hsa-miR-450b-5p	1.46	5.71E-03	hsa-miR-181c*	1.49	4.31E-02
hsa-miR-145*	1.55	5.88E-03	hsa-miR-193a-3p	1.44	4.31E-02
hsa-miR-337-5p	1.48	6.39E-03			
hsa-miR-136*	1.53	6.60E-03			
hsa-miR-106b*	0.70	7.34E-03			

MC vs UA
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			<b>miR ID</b>	<b>log Fold change</b>	<b>adjusted P-value</b>
hsa-miR-22	0.83	7.34E-03	hsa-miR-889	2.29	1.00E-05
hsa-miR-452	1.82	7.34E-03	hsa-miR-432	3.20	1.00E-05
hsa-miR-324-5p	0.61	8.06E-03	hsa-miR-409-3p	3.04	1.00E-05
hsa-miR-551b	2.54	8.10E-03	hsa-miR-199a-5p	2.74	1.00E-05
hsa-miR-329	0.93	8.79E-03	hsa-miR-370	2.27	1.00E-05
hsa-miR-127-3p	1.35	9.35E-03	hsa-miR-134	2.17	1.00E-05
hsa-miR-200a	0.95	1.06E-02	hsa-miR-1	2.63	2.00E-05
hsa-miR-495	1.57	1.08E-02	hsa-miR-183*	-2.37	8.00E-05
hsa-miR-411	1.58	1.15E-02	hsa-miR-126	1.44	8.00E-05
hsa-miR-221	0.79	1.15E-02	hsa-miR-199a-3p	1.19	8.00E-05
hsa-miR-326	0.84	1.15E-02	hsa-miR-455-3p	-3.08	8.00E-05
hsa-miR-503	1.15	1.15E-02	hsa-miR-126*	1.41	8.00E-05
hsa-miR-9	0.76	1.24E-02	hsa-miR-376a	1.23	1.70E-04
hsa-miR-181a	0.78	1.33E-02	hsa-miR-543	2.42	1.80E-04
hsa-miR-493	1.03	1.53E-02	hsa-miR-224	2.67	1.80E-04
hsa-miR-22*	0.66	1.66E-02	hsa-miR-495	2.46	2.20E-04
hsa-let-7f-2*	0.94	1.74E-02	hsa-miR-183	-2.11	2.20E-04
hsa-miR-941	0.98	1.74E-02	hsa-miR-199b-5p	2.19	3.10E-04
hsa-miR-181a-2*	0.88	1.74E-02	hsa-miR-221	1.23	3.10E-04
hsa-miR-382	1.34	1.79E-02	hsa-miR-379	1.84	3.70E-04
hsa-miR-654-3p	1.57	1.79E-02			

hsa-miR-559	0.78	1.86E-02	hsa-miR-455-5p	-2.30	8.30E-04
hsa-miR-133b	1.61	1.94E-02	hsa-miR-127-3p	1.82	9.70E-04
hsa-miR-340*	0.50	2.12E-02	hsa-miR-26a-1*	1.77	9.70E-04
hsa-miR-181c	0.62	2.12E-02	hsa-miR-96	-2.02	9.70E-04
hsa-miR-9*	0.55	2.17E-02	hsa-miR-487b	2.20	9.70E-04
hsa-miR-125a-5p	0.85	2.44E-02	hsa-miR-369-3p	2.05	1.52E-03
hsa-miR-363	0.70	2.44E-02	hsa-miR-143	1.29	1.75E-03
hsa-miR-659	0.72	2.47E-02	hsa-miR-539	1.58	1.81E-03
hsa-miR-424*	1.17	2.62E-02	hsa-miR-337-5p	1.75	1.81E-03
hsa-miR-450a	1.40	2.80E-02	hsa-miR-485-3p	1.54	2.67E-03
hsa-miR-15b*	0.64	2.80E-02	hsa-miR-542-3p	1.19	3.39E-03
hsa-miR-203	1.60	2.80E-02	hsa-miR-450b-5p	1.56	3.88E-03
hsa-miR-181a*	1.30	2.80E-02	hsa-miR-410	0.97	3.88E-03
hsa-miR-100	1.20	3.29E-02	hsa-miR-204	1.70	3.88E-03
hsa-miR-323-3p	0.50	3.29E-02	hsa-miR-31	1.85	4.02E-03
hsa-miR-138	1.43	3.34E-02	hsa-miR-141*	-1.25	4.05E-03
hsa-miR-656	0.67	3.39E-02	hsa-miR-655	1.43	4.44E-03
hsa-miR-107	0.69	3.68E-02	hsa-miR-145	1.22	4.56E-03
hsa-miR-148a	0.71	3.77E-02	hsa-miR-133a	1.08	6.63E-03
hsa-miR-485-3p	0.98	3.91E-02	hsa-miR-708	-1.33	6.95E-03
hsa-miR-26a-2*	1.07	3.91E-02	hsa-miR-376c	1.36	7.45E-03
hsa-miR-133a	0.76	4.15E-02	hsa-miR-452	1.85	7.65E-03
hsa-miR-301b	0.54	4.23E-02	hsa-miR-411	1.69	9.52E-03
hsa-miR-429	0.65	4.54E-02	hsa-miR-503	1.22	9.99E-03
hsa-miR-152	0.57	4.57E-02	hsa-miR-125b	1.42	1.53E-02
hsa-miR-99a	1.32	4.80E-02	hsa-miR-708*	-0.84	1.53E-02
			hsa-miR-107	0.84	1.65E-02
			hsa-miR-326	0.82	1.75E-02
			hsa-miR-493	1.06	1.75E-02
			hsa-miR-559	-0.82	1.93E-02
			hsa-miR-10a	1.37	2.08E-02
			hsa-miR-450a	1.52	2.52E-02

  

UC vs MB		
miR ID	log Fold change	adjusted P-value
hsa-miR-370	2.57	0
hsa-miR-889	1.91	4.00E-05

hsa-miR-455-5p	3.07	4.00E-05	hsa-miR-25*	-0.79	2.52E-02
hsa-miR-409-3p	2.49	1.00E-04	hsa-miR-424	0.98	2.52E-02
hsa-miR-181a	1.32	2.10E-04	hsa-miR-133b	1.62	2.60E-02
hsa-miR-543	2.41	2.10E-04	hsa-miR-329	0.82	2.60E-02
hsa-miR-376a	1.20	2.10E-04	hsa-miR-382	1.32	2.60E-02
hsa-miR-379	1.96	2.10E-04	hsa-miR-27a	0.57	2.90E-02
hsa-miR-181a-2*	1.47	3.00E-04	hsa-miR-433	1.70	3.33E-02
hsa-miR-432	2.26	3.00E-04	hsa-miR-136*	1.23	3.33E-02
hsa-miR-141*	1.62	3.00E-04	hsa-miR-424*	1.19	3.42E-02
hsa-miR-199a-5p	1.97	3.00E-04	hsa-miR-518d-3p	-0.97	3.87E-02
hsa-miR-542-3p	1.47	3.70E-04	hsa-miR-493*	1.16	3.87E-02
hsa-miR-130a	1.18	3.70E-04	hsa-miR-451	0.95	4.18E-02
hsa-miR-363*	2.39	4.40E-04	hsa-miR-200c	-0.62	4.18E-02
hsa-miR-539	1.74	5.80E-04	hsa-miR-323-3p	0.50	4.18E-02
hsa-miR-655	1.75	5.80E-04	hsa-miR-182	-1.47	4.47E-02
hsa-miR-26a-1*	1.81	5.90E-04	hsa-miR-139-5p	0.64	4.97E-02
hsa-miR-376c	1.74	6.30E-04			
hsa-miR-487b	2.22	6.60E-04			
hsa-miR-324-5p	0.79	7.20E-04			

**UC vs UA**

<b>miR ID</b>	<b>log Fold change</b>	<b>adjusted P-value</b>
hsa-miR-889	2.15	2.00E-05
hsa-miR-409-3p	3.00	2.00E-05
hsa-miR-370	2.26	2.00E-05
hsa-miR-543	3.00	2.00E-05
hsa-miR-432	2.95	2.00E-05
hsa-miR-1	2.22	2.80E-04
hsa-miR-199a-5p	2.14	2.80E-04
hsa-miR-495	2.50	3.60E-04
hsa-miR-376a	1.20	3.60E-04
hsa-miR-134	1.64	5.50E-04
hsa-miR-199b-5p	2.16	6.20E-04
hsa-miR-126	1.22	7.10E-04



hsa-miR-9	0.93	2.30E-03	hsa-miR-126*	1.20	7.60E-04
hsa-miR-183*	1.59	2.55E-03	hsa-miR-127-3p	1.87	1.10E-03
hsa-miR-511	1.62	3.08E-03	hsa-miR-379	1.72	1.15E-03
hsa-miR-363	0.92	3.08E-03	hsa-miR-487b	2.25	1.15E-03
hsa-miR-199a-3p	0.78	3.13E-03	hsa-miR-221	1.04	2.77E-03
hsa-miR-126	0.94	3.15E-03	hsa-miR-224	2.14	2.77E-03
hsa-miR-22	0.88	3.40E-03	hsa-miR-337-5p	1.71	3.68E-03
hsa-miR-99b	1.16	3.40E-03	hsa-miR-199a-3p	0.85	3.77E-03
hsa-miR-181a*	1.74	3.40E-03	hsa-miR-26a-1*	1.54	5.66E-03
hsa-miR-369-3p	1.75	3.40E-03	hsa-miR-410	0.97	5.75E-03
hsa-miR-126*	0.91	3.66E-03	hsa-miR-369-3p	1.82	6.32E-03
hsa-miR-17*	0.66	4.29E-03	hsa-miR-485-3p	1.45	6.32E-03
hsa-miR-218	1.26	4.29E-03	hsa-miR-376c	1.40	9.32E-03
hsa-miR-551b	2.64	4.29E-03	hsa-miR-136*	1.58	9.41E-03
hsa-miR-941	1.15	4.29E-03	hsa-miR-542-3p	1.09	9.79E-03
hsa-miR-141	0.93	5.19E-03	hsa-miR-539	1.35	1.02E-02
hsa-miR-127-3p	1.40	5.19E-03	hsa-miR-411	1.72	1.21E-02
hsa-miR-337-5p	1.44	5.19E-03	hsa-miR-424*	1.47	1.24E-02
hsa-miR-424*	1.45	5.19E-03	hsa-miR-31	1.66	1.27E-02
hsa-miR-224	1.73	5.68E-03	hsa-miR-183	1.42	1.28E-02
hsa-miR-495	1.60	6.60E-03	hsa-miR-655	1.29	1.36E-02
hsa-miR-382	1.49	6.90E-03	hsa-miR-382	1.47	1.84E-02
hsa-miR-15b*	0.78	6.90E-03	hsa-miR-450b-5p	1.23	3.24E-02
hsa-miR-193b	0.96	7.30E-03	hsa-miR-559	0.80	3.29E-02
hsa-miR-411	1.61	7.42E-03	hsa-miR-125b	1.32	3.41E-02
hsa-miR-329	0.90	7.76E-03	hsa-miR-450a	1.53	3.41E-02
hsa-miR-22*	0.70	8.43E-03	hsa-miR-96	1.35	3.41E-02
hsa-miR-193a-3p	1.56	8.43E-03	hsa-miR-107	0.78	3.77E-02
hsa-miR-193a-5p	0.67	8.44E-03	hsa-miR-143	0.89	4.07E-02
hsa-miR-135a	0.82	8.47E-03	hsa-miR-758	0.92	4.33E-02
hsa-miR-203	1.83	1.01E-02	hsa-miR-493	0.95	4.40E-02
hsa-miR-34b*	1.08	1.03E-02	hsa-miR-329	0.79	4.40E-02
hsa-miR-125a-5p	0.94	1.03E-02	hsa-miR-452	1.49	4.40E-02

hsa-miR-130b*	0.73	1.16E-02
hsa-miR-502-5p	0.64	1.18E-02
hsa-let-7f-2*	0.95	1.18E-02

UC vs MC
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hsa-miR-181c*	1.51	1.18E-02
hsa-miR-659	0.78	1.20E-02
hsa-miR-20b*	1.44	1.28E-02
hsa-miR-449b	0.58	1.32E-02
hsa-miR-656	0.73	1.63E-02
hsa-miR-559	0.76	1.69E-02
hsa-miR-183	1.17	1.86E-02
hsa-miR-450b-5p	1.13	2.09E-02
hsa-miR-493	0.93	2.17E-02
hsa-miR-452	1.45	2.22E-02
hsa-miR-409-5p	0.88	2.22E-02
hsa-miR-450a	1.40	2.22E-02
hsa-miR-518f	0.99	2.23E-02
hsa-miR-330-5p	1.06	2.53E-02
hsa-miR-138	1.45	2.54E-02
hsa-miR-148a	0.72	2.99E-02
hsa-miR-545*	0.86	3.14E-02
hsa-miR-449a	0.54	3.15E-02
hsa-miR-218-2*	0.62	3.32E-02
hsa-miR-200c	0.59	3.34E-02
hsa-miR-301b	0.55	3.34E-02
hsa-miR-335	0.63	3.48E-02
hsa-miR-944	1.24	3.62E-02
hsa-miR-570	0.69	3.62E-02
hsa-miR-211	0.82	3.83E-02
hsa-miR-143	0.76	3.84E-02
hsa-miR-21*	0.57	3.84E-02
hsa-miR-221	0.61	3.84E-02

miR ID	log Fold change	adjusted P-value
hsa-miR-455-5p	2.10	1.94E-02
hsa-miR-455-3p	2.26	1.94E-02
hsa-miR-708	1.41	3.32E-02

hsa-miR-367	2.03	3.96E-02
hsa-miR-200a	0.70	4.09E-02
hsa-miR-645	0.54	4.37E-02
hsa-miR-500*	1.39	4.55E-02
hsa-miR-202	0.53	4.61E-02
hsa-miR-497	0.46	4.68E-02
hsa-miR-26a-2*	0.98	4.68E-02
hsa-miR-25*	0.62	4.81E-02
hsa-miR-107	0.62	4.81E-02
hsa-miR-146a	0.56	4.86E-02
hsa-miR-485-3p	0.89	4.86E-02
hsa-miR-34c-5p	0.79	4.89E-02
hsa-miR-519a	1.06	4.89E-02

**Supplementary Table 6a. miR expression fold changes for *IGHV* mutational status in the 16 MCL series compared to the whole sample set**

<b><i>IGHV</i> status-related miRs in the whole set</b>	<b>log Fold Change in whole set series</b>	<b>log Fold Change in 16 MCL series</b>
hsa-miR-455-3p	2.55	3.56
hsa-miR-455-5p	2.43	3.32
hsa-miR-183*	1.76	2.52
hsa-miR-183	1.49	2.50
hsa-miR-193b*	1.45	1.42
hsa-miR-708	1.43	1.37
hsa-miR-141*	1.27	1.36
hsa-miR-96	1.20	2.06
hsa-miR-193a-3p	1.09	1.39

hsa-miR-181a-2*	0.91	1.09
hsa-miR-181a	0.79	1.01
hsa-miR-141	0.75	0.76
hsa-miR-708*	0.72	0.68
hsa-miR-25*	0.69	0.69
hsa-miR-181c	0.64	0.90
hsa-miR-200c	0.58	0.63
hsa-miR-193a-5p	0.53	0.55

**Supplementary Table 6b. Expression fold changes between *IGHV* mutational status categories in the 16 MCL series for those genes predicted to be targets for *IGHV*-related miRs and involved in significant enriched pathways**

<b>Gene name</b>	<b>log Fold Change</b>
LRRC32	-2.04
ADM	-1.45
PDE8A	-1.35
ATM	-1.24
PLEK	-1.23
PHACTR1	-1.17
FOS	-1.07
TNF	-0.98
NME4	-0.91
ERCC1	-0.89
RIPK2	-0.88
DDIT3	-0.87
SESN1	-0.86
MEF2C	-0.85
RAD23B	-0.84
JUNB	-0.78
NME1	-0.78
DUSP1	-0.74

ENTPD1	-0.74
SH2B3	-0.60
NFKB2	-0.60
DNAJB1	-0.51
DUSP10	-0.45
AMPD2	-0.43
CEBPG	-0.39
AHR	-0.39
KDM5C	-0.39
F13A1	-0.38
MLL2	-0.37
AK2	-0.36
EZH1	-0.35
HEMK1	-0.33
KDM6A	-0.33
ETF1	-0.31
PDE4D	-0.29
HSP90B1	-0.26
RAD50	-0.26
SETDB1	-0.25
PAX5	-0.24
ELL2	-0.24
CSNK1E	-0.19
ICOSLG	-0.14
TRAF1	-0.12
RINT1	-0.08
PRMT2	0.17
HSPH1	0.18
RXRA	0.34

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**Supplementary Table 7a. MAGIA output for inverse Spearman correlation between *IGHV*-related miRs and mRNA expression values in 16 leukemic MCL**

Gene name	miR	Spearman Rho	Gene name	miR	Spearman Rho	Gene name	miR	Spearman Rho
ADAT2	hsa-mir-96	-0.8142	RALGPS2	hsa-mir-96	-0.2566	ERF	hsa-mir-181c	-0.1088
NDST1	hsa-mir-96	-0.7758	COMMD6	hsa-mir-181a-2*	-0.2559	LAIR1	hsa-mir-193a-5p	-0.1088
LRP2BP	hsa-mir-193b*	-0.7373	KLHL3	hsa-mir-200c	-0.2559	FEM1C	hsa-mir-25*	-0.1088
HES1	hsa-mir-96	-0.6991	PIK3C2B	hsa-mir-193b*	-0.2559	XCL1	hsa-mir-193b*	-0.1088
AKT2	hsa-mir-708	-0.6971	RHBDD1	hsa-mir-193b*	-0.2559	CAPN3	hsa-mir-193a-5p	-0.1088
FBXO41	hsa-mir-96	-0.6932	B4GALT5	hsa-mir-193a-5p	-0.2559	RCSD1	hsa-mir-193b*	-0.1088
NAMPT	hsa-mir-96	-0.6667	C1orf38	hsa-mir-193b*	-0.2559	ZNF670	hsa-mir-141*	-0.1070
ARHGAP18	hsa-mir-183	-0.6389	ZADH2	hsa-mir-96	-0.2537	CYB5D1	hsa-mir-193a-5p	-0.1059
SYNCRIP	hsa-mir-193b*	-0.6294	GPD1L	hsa-mir-181c	-0.2529	CCDC117	hsa-mir-200c	-0.1059
STX12	hsa-mir-193a-5p	-0.6206	PPP1R13B	hsa-mir-193a-5p	-0.2529	RHOBTB2	hsa-mir-25*	-0.1059
SLC2A3	hsa-mir-193a-5p	-0.6147	DNAJB1	hsa-mir-181c	-0.2529	IL1A	hsa-mir-181c	-0.1059
SLC9A8	hsa-mir-193a-3p	-0.6118	IL2RA	hsa-mir-193b*	-0.2529	ZCCHC2	hsa-mir-25*	-0.1059
DDIT3	hsa-mir-96	-0.6106	ATP5D	hsa-mir-193a-5p	-0.2529	HSP90B1	hsa-mir-181c	-0.1059
ZBTB24	hsa-mir-193b*	-0.6088	CDK14	hsa-mir-455-5p	-0.2529	MOBKL2B	hsa-mir-25*	-0.1059
ASXL1	hsa-mir-141	-0.5882	MCTP2	hsa-mir-193a-5p	-0.2529	KBTBD8	hsa-mir-193b*	-0.1059
ITPR2	hsa-mir-193a-5p	-0.5882	RAD23B	hsa-mir-181c	-0.2529	GORAB	hsa-mir-181a	-0.1059
SNX29	hsa-mir-96	-0.5870	CARD11	hsa-mir-181a	-0.2529	YOD1	hsa-mir-183	-0.1045
PDE8A	hsa-mir-200c	-0.5853	TDRD3	hsa-mir-183	-0.2508	EEA1	hsa-mir-183	-0.1045
TMEM109	hsa-mir-183	-0.5851	TSC22D3	hsa-mir-96	-0.2507	BACH2	hsa-mir-96	-0.1032
ALG9	hsa-mir-96	-0.5841	HSPH1	hsa-mir-200c	-0.2500	HEXIM1	hsa-mir-181c	-0.1029
ACP6	hsa-mir-96	-0.5782	PRDM4	hsa-mir-181a-2*	-0.2500	TXNIP	hsa-mir-193b*	-0.1029
MOCOS2	hsa-mir-193b*	-0.5765	WHAMM	hsa-mir-181c	-0.2500	FYB	hsa-mir-193a-5p	-0.1029
PMAIP1	hsa-mir-181c	-0.5735	FCER2	hsa-mir-193b*	-0.2500	NIPSNAP3A	hsa-mir-193b*	-0.1029
SGTB	hsa-mir-181a	-0.5735	SESN1	hsa-mir-200c	-0.2500	DCAF16	hsa-mir-200c	-0.1029
IQSEC1	hsa-mir-141	-0.5735	PAK11P1	hsa-mir-141	-0.2500	FAM70A	hsa-mir-708	-0.1029
ENTPD1	hsa-mir-183*	-0.5732	ABHD13	hsa-mir-193b*	-0.2500	ZEB1	hsa-mir-193a-5p	-0.1029
KIF16B	hsa-mir-193b*	-0.5647	TOX2	hsa-mir-193a-5p	-0.2500	C6orf162	hsa-mir-183	-0.1015

TNF	hsa-mir-181a	-0.5647	FAM198B	hsa-mir-183	-0.2478	COL4A4	hsa-mir-25*	-0.1000
DIAPH2	hsa-mir-96	-0.5634	CREB3L2	hsa-mir-96	-0.2478	CPD	hsa-mir-181a	-0.1000
STX12	hsa-mir-200c	-0.5618	PRC1	hsa-mir-96	-0.2478	ZNF827	hsa-mir-193b*	-0.1000
CRTAP	hsa-mir-96	-0.5605	RNF24	hsa-mir-193a-5p	-0.2471	HDLBP	hsa-mir-200c	-0.1000
ADM	hsa-mir-181a	-0.5588	MTX3	hsa-mir-141	-0.2471	ARHGEF3	hsa-mir-455-5p	-0.1000
ZNF395	hsa-mir-200c	-0.5588	SNX9	hsa-mir-141	-0.2471	EGLN1	hsa-mir-200c	-0.1000
STAT5B	hsa-mir-141	-0.5588	SMC6	hsa-mir-193b*	-0.2471	BCKDHB	hsa-mir-181c	-0.1000
PDPK1	hsa-mir-200c	-0.5559	HYOU1	hsa-mir-181a	-0.2441	GAB2	hsa-mir-193b*	-0.1000
RNF41	hsa-mir-193b*	-0.5529	E2F7	hsa-mir-181a	-0.2441	CAMK2D	hsa-mir-183	-0.0985
TFEC	hsa-mir-200c	-0.5529	ZNF563	hsa-mir-181c	-0.2441	PPFIA1	hsa-mir-181c	-0.0971
SLC2A3	hsa-mir-193b*	-0.5529	MARCKS	hsa-mir-200c	-0.2441	AAK1	hsa-mir-181a	-0.0971
RAD50	hsa-mir-183	-0.5523	ZEB2	hsa-mir-141	-0.2441	ZNF510	hsa-mir-181c	-0.0971
LRRC32	hsa-mir-181c	-0.5441	RNF19B	hsa-mir-25*	-0.2412	CDK14	hsa-mir-193b*	-0.0971
CCDC68	hsa-mir-193a-5p	-0.5441	E2F5	hsa-mir-181c	-0.2412	SURF4	hsa-mir-200c	-0.0971
CDC42EP3	hsa-mir-141	-0.5324	HIGD2A	hsa-mir-193a-5p	-0.2412	GORAB	hsa-mir-193b*	-0.0971
SLC25A23	hsa-mir-708	-0.5324	ZNF654	hsa-mir-181a	-0.2412	GTSF1	hsa-mir-193a-5p	-0.0957
TNF	hsa-mir-193a-5p	-0.5294	RP2	hsa-mir-181a	-0.2412	SELI	hsa-mir-96	-0.0944
EGR1	hsa-mir-181a	-0.5206	MOBKL2B	hsa-mir-141	-0.2412	NXF1	hsa-mir-25*	-0.0941
PDPK1	hsa-mir-193a-5p	-0.5206	ELMO1	hsa-mir-25*	-0.2412	ADAMTS6	hsa-mir-181c	-0.0941
CELSR3	hsa-mir-96	-0.5192	RAP1GAP2	hsa-mir-96	-0.2389	IL7R	hsa-mir-193b*	-0.0941
AMPD2	hsa-mir-141	-0.5176	PBX2	hsa-mir-96	-0.2389	GADD45B	hsa-mir-193b*	-0.0941
PMAIP1	hsa-mir-181a	-0.5176	RASGRP1	hsa-mir-708	-0.2382	ATP6V1B2	hsa-mir-141	-0.0941
PI4K2A	hsa-mir-193a-5p	-0.5176	PRDM4	hsa-mir-181c	-0.2382	SERPINA1	hsa-mir-193b*	-0.0941
PTPN4	hsa-mir-183	-0.5165	C1orf173	hsa-mir-141	-0.2382	PLEK	hsa-mir-181a	-0.0941
ACSL1	hsa-mir-181a	-0.5147	DUSP1	hsa-mir-200c	-0.2382	YOD1	hsa-mir-181a	-0.0941
MTX3	hsa-mir-181c	-0.5147	HIGD2A	hsa-mir-193b*	-0.2382	TRAPPC1	hsa-mir-193a-5p	-0.0941
STX12	hsa-mir-193b*	-0.5118	MAP1A	hsa-mir-181a	-0.2382	SLC6A6	hsa-mir-200c	-0.0941
SLC25A37	hsa-mir-181a	-0.5118	KIAA1324	hsa-mir-193a-5p	-0.2382	PGAP1	hsa-mir-193a-3p	-0.0941
SLC25A37	hsa-mir-181c	-0.5118	RINT1	hsa-mir-193b*	-0.2382	CCND2	hsa-mir-141	-0.0941
PDPK1	hsa-mir-181c	-0.5118	LIMS3	hsa-mir-193b*	-0.2382	CD247	hsa-mir-193a-5p	-0.0941
GZF1	hsa-mir-193b*	-0.5118	GCNT1	hsa-mir-96	-0.2360	ROBO1	hsa-mir-141*	-0.0940
FOSB	hsa-mir-193a-5p	-0.5059	FAM3C	hsa-mir-181c	-0.2353	SAMD9L	hsa-mir-183	-0.0925
GCNT2	hsa-mir-181c	-0.5029	ABTB2	hsa-mir-181a	-0.2353	TNFRSF17	hsa-mir-96	-0.0914
SLC12A6	hsa-mir-96	-0.5015	SETD7	hsa-mir-193a-5p	-0.2353	DUSP5	hsa-mir-181c	-0.0912
EGR3	hsa-mir-181a	-0.5000	SLC16A6	hsa-mir-193a-3p	-0.2353	TIGD3	hsa-mir-193a-5p	-0.0912
SGTB	hsa-mir-181c	-0.5000	SNX29	hsa-mir-25*	-0.2353	MYCBP	hsa-mir-181c	-0.0912
TNF	hsa-mir-181c	-0.5000	CCDC64	hsa-mir-181a	-0.2353	NOVA1	hsa-mir-181a	-0.0912

PRKAA1	hsa-mir-181c	-0.4971	FBXO41	hsa-mir-193b*	-0.2324	NPC1	hsa-mir-200c	-0.0912
PHLDA1	hsa-mir-181a	-0.4941	SIPA1L3	hsa-mir-193b*	-0.2324	KLHL28	hsa-mir-193a-5p	-0.0912
RASGRF1	hsa-mir-193b*	-0.4941	ZC3H7B	hsa-mir-193b*	-0.2324	RALGAPA2	hsa-mir-193b*	-0.0912
ATM	hsa-mir-181c	-0.4912	NAP1L5	hsa-mir-193b*	-0.2324	ATXN1	hsa-mir-181a	-0.0912
ST7	hsa-mir-708	-0.4912	CD1C	hsa-mir-193b*	-0.2324	LAT2	hsa-mir-25*	-0.0912
IFFO2	hsa-mir-25*	-0.4853	ProSAPiP1	hsa-mir-193b*	-0.2324	CST7	hsa-mir-193b*	-0.0912
ADM	hsa-mir-181c	-0.4853	CCND2	hsa-mir-96	-0.2301	NMT2	hsa-mir-181a	-0.0912
SLC9A8	hsa-mir-193b*	-0.4853	RGS2	hsa-mir-96	-0.2271	ZNF33B	hsa-mir-708*	-0.0896
PDPK1	hsa-mir-181a	-0.4853	ADAM19	hsa-mir-96	-0.2271	DHCR24	hsa-mir-96	-0.0885
PRKCQ	hsa-mir-708	-0.4853	MARCH6	hsa-mir-200c	-0.2265	IFFO2	hsa-mir-193b*	-0.0882
PELI1	hsa-mir-193a-5p	-0.4853	C22orf30	hsa-mir-25*	-0.2265	R3HDM2	hsa-mir-193b*	-0.0882
ST7	hsa-mir-25*	-0.4853	UBE2J1	hsa-mir-181c	-0.2265	LCP1	hsa-mir-193b*	-0.0882
PTPRE	hsa-mir-96	-0.4838	PRKACB	hsa-mir-25*	-0.2265	STK40	hsa-mir-193a-5p	-0.0882
NPC2	hsa-mir-183*	-0.4836	ASPHD2	hsa-mir-181c	-0.2265	TNKS	hsa-mir-25*	-0.0882
SNAP23	hsa-mir-96	-0.4808	CASP10	hsa-mir-181c	-0.2265	SPCS2	hsa-mir-183	-0.0866
RAP1GAP2	hsa-mir-708	-0.4765	SLC44A2	hsa-mir-96	-0.2242	FYCO1	hsa-mir-96	-0.0855
ATM	hsa-mir-181a	-0.4765	TCF19	hsa-mir-96	-0.2242	ELL2	hsa-mir-200c	-0.0853
DCAF8	hsa-mir-193b*	-0.4765	DMXL1	hsa-mir-183	-0.2239	INPP5A	hsa-mir-181a	-0.0853
KLF3	hsa-mir-181a	-0.4735	EHBP1	hsa-mir-193b*	-0.2235	KRAS	hsa-mir-200c	-0.0853
FOXP1	hsa-mir-193b*	-0.4706	KLHL3	hsa-mir-181a	-0.2235	SORD	hsa-mir-141	-0.0853
SERPINB9	hsa-mir-708	-0.4706	UBE2J1	hsa-mir-181a	-0.2235	SPP1	hsa-mir-181a	-0.0853
WDFY1	hsa-mir-708	-0.4706	PTPN12	hsa-mir-200c	-0.2235	KLF9	hsa-mir-200c	-0.0853
TCTN1	hsa-mir-708	-0.4706	MOBK2L2B	hsa-mir-193b*	-0.2235	IER3	hsa-mir-708	-0.0853
RIPK2	hsa-mir-200c	-0.4706	ARHGAP19	hsa-mir-200c	-0.2235	LRP2BP	hsa-mir-708	-0.0839
CD19	hsa-mir-708	-0.4706	SELI	hsa-mir-181a	-0.2235	FAM81A	hsa-mir-96	-0.0826
AP1S3	hsa-mir-96	-0.4690	KLF3	hsa-mir-96	-0.2212	ARHGEF3	hsa-mir-96	-0.0826
COL9A2	hsa-mir-193b*	-0.4676	ABHD13	hsa-mir-183	-0.2209	USP6NL	hsa-mir-96	-0.0826
LRRC32	hsa-mir-181a-2*	-0.4676	GNPDA1	hsa-mir-200c	-0.2206	HMGCS1	hsa-mir-141	-0.0824
LRRC8C	hsa-mir-193a-5p	-0.4676	R3HDM2	hsa-mir-455-5p	-0.2206	NIPAL4	hsa-mir-181c	-0.0824
TOX	hsa-mir-96	-0.4661	KRAS	hsa-mir-181a	-0.2206	PHKB	hsa-mir-455-3p	-0.0824
TNFRSF1B	hsa-mir-183	-0.4657	MFSD6	hsa-mir-181a	-0.2206	PTBP2	hsa-mir-181c	-0.0824
ACSL1	hsa-mir-193a-5p	-0.4647	BCKDHB	hsa-mir-193b*	-0.2206	CLMN	hsa-mir-25*	-0.0824
SYNJ2BP	hsa-mir-708	-0.4647	RDX	hsa-mir-25*	-0.2206	WIBG	hsa-mir-141	-0.0824
C12orf24	hsa-mir-96	-0.4631	FMNL1	hsa-mir-193b*	-0.2206	EFCAB4B	hsa-mir-193b*	-0.0824
ENTPD1	hsa-mir-96	-0.4631	DCUN1D5	hsa-mir-141	-0.2206	TNFSF12	hsa-mir-193b*	-0.0824
TMEM14A	hsa-mir-183	-0.4627	ATP8A1	hsa-mir-96	-0.2183	IER3	hsa-mir-193a-5p	-0.0824
CEBPG	hsa-mir-193a-5p	-0.4618	E2F7	hsa-mir-181c	-0.2176	ANKH	hsa-mir-193a-5p	-0.0794



BAZ2A	hsa-mir-193a-3p	-0.4618	GNL1	hsa-mir-455-3p	-0.2176	SLC25A23	hsa-mir-193b*	-0.0794
TTC9	hsa-mir-708	-0.4618	ARHGAP24	hsa-mir-96	-0.2153	NRIP1	hsa-mir-200c	-0.0794
PRKAA1	hsa-mir-181a	-0.4618	CCDC117	hsa-mir-181a	-0.2147	CDC7	hsa-mir-181c	-0.0794
CAPNS1	hsa-mir-96	-0.4602	HSPA5	hsa-mir-181c	-0.2147	PARP9	hsa-mir-455-5p	-0.0794
KLHL3	hsa-mir-183	-0.4598	DCAF8	hsa-mir-141	-0.2147	PHF16	hsa-mir-200c	-0.0794
TNFRSF1B	hsa-mir-193a-5p	-0.4588	RDX	hsa-mir-141	-0.2147	SLC39A10	hsa-mir-183*	-0.0776
C14orf43	hsa-mir-181c	-0.4588	TNFAIP1	hsa-mir-181c	-0.2147	TBC1D4	hsa-mir-96	-0.0767
CSRNP1	hsa-mir-96	-0.4572	CBLB	hsa-mir-181a	-0.2147	AKAP11	hsa-mir-25*	-0.0765
MAP1B	hsa-mir-193b*	-0.4559	VPRBP	hsa-mir-141*	-0.2139	ELL2	hsa-mir-141	-0.0765
KBTBD3	hsa-mir-708*	-0.4546	AP3M1	hsa-mir-183	-0.2120	SYT11	hsa-mir-181a	-0.0765
FCER2	hsa-mir-193a-5p	-0.4529	HIC2	hsa-mir-193a-3p	-0.2118	MAFG	hsa-mir-25*	-0.0765
SASH3	hsa-mir-708	-0.4529	KIF1B	hsa-mir-455-5p	-0.2088	BRWD1	hsa-mir-141	-0.0765
TCF4	hsa-mir-193a-3p	-0.4529	FYB	hsa-mir-25*	-0.2088	PPP1R3B	hsa-mir-181a	-0.0765
ProSAPiP1	hsa-mir-193a-5p	-0.4529	MAP1D	hsa-mir-193b*	-0.2088	NNT	hsa-mir-96	-0.0737
ARID2	hsa-mir-181c	-0.4500	HIST1H1C	hsa-mir-193b*	-0.2088	FAM53C	hsa-mir-96	-0.0737
KLHL3	hsa-mir-141	-0.4500	MAK	hsa-mir-200c	-0.2088	CBFA2T3	hsa-mir-96	-0.0737
CREB3L2	hsa-mir-708	-0.4500	SMURF1	hsa-mir-200c	-0.2088	ZKSCAN5	hsa-mir-200c	-0.0735
LRRC32	hsa-mir-181a	-0.4471	SENP7	hsa-mir-193b*	-0.2088	RPRD1A	hsa-mir-200c	-0.0735
USP53	hsa-mir-200c	-0.4441	ERMN	hsa-mir-193b*	-0.2088	CBL	hsa-mir-25*	-0.0735
PI4K2A	hsa-mir-181a	-0.4441	C14orf4	hsa-mir-193a-3p	-0.2088	TRIM14	hsa-mir-455-5p	-0.0735
RAD23B	hsa-mir-96	-0.4425	IKBKB	hsa-mir-183	-0.2060	EVI2B	hsa-mir-141*	-0.0713
ATF7	hsa-mir-708	-0.4412	PTPRE	hsa-mir-183	-0.2060	RPS6KA2	hsa-mir-96	-0.0708
RASGEF1B	hsa-mir-193a-5p	-0.4412	AKT2	hsa-mir-200c	-0.2059	LOC339803	hsa-mir-193b*	-0.0706
COMMD7	hsa-mir-183	-0.4389	NINJ1	hsa-mir-708	-0.2059	PLEKHG2	hsa-mir-25*	-0.0706
PHKB	hsa-mir-183	-0.4389	SERPINB8	hsa-mir-25*	-0.2059	VDAC3	hsa-mir-141	-0.0706
RIPK1	hsa-mir-193a-3p	-0.4382	RUFY2	hsa-mir-25*	-0.2059	ADIPOR2	hsa-mir-200c	-0.0706
CKAP4	hsa-mir-193b*	-0.4353	BMF	hsa-mir-181c	-0.2059	ABHD14B	hsa-mir-193a-5p	-0.0706
MAP2	hsa-mir-200c	-0.4312	CD5	hsa-mir-193b*	-0.2059	LMBRD2	hsa-mir-181a	-0.0706
CMTM7	hsa-mir-96	-0.4307	SLC12A6	hsa-mir-193b*	-0.2059	FAM65B	hsa-mir-200c	-0.0706
PRKAA1	hsa-mir-200c	-0.4294	BCKDHB	hsa-mir-141*	-0.2042	FAM117B	hsa-mir-183	-0.0687
KLF6	hsa-mir-181c	-0.4265	TYROBP	hsa-mir-183	-0.2030	RHOB	hsa-mir-183	-0.0687
KLF3	hsa-mir-181c	-0.4265	DIDO1	hsa-mir-193a-5p	-0.2029	ATXN1	hsa-mir-96	-0.0678
RAB34	hsa-mir-96	-0.4248	ELL2	hsa-mir-193b*	-0.2029	TMEM170B	hsa-mir-141	-0.0676
BAZ2A	hsa-mir-193b*	-0.4235	ICOSLG	hsa-mir-193b*	-0.2029	COL4A3	hsa-mir-200c	-0.0676
GCNT2	hsa-mir-141	-0.4235	PLEK	hsa-mir-181c	-0.2029	CCNYL1	hsa-mir-200c	-0.0676
IFT57	hsa-mir-708	-0.4235	SDK2	hsa-mir-193b*	-0.2029	TANC2	hsa-mir-193b*	-0.0676
DIAPH2	hsa-mir-183	-0.4209	NUFIP2	hsa-mir-193a-3p	-0.2029	SLC25A45	hsa-mir-25*	-0.0676

KRAS	hsa-mir-193a-3p	-0.4206	SIT1	hsa-mir-193b*	-0.2016	PDDC1	hsa-mir-25*	-0.0676
CPEB4	hsa-mir-181a	-0.4206	RAB21	hsa-mir-200c	-0.2000	FGD6	hsa-mir-193a-5p	-0.0676
MXD1	hsa-mir-193a-5p	-0.4176	RBM3	hsa-mir-181a	-0.2000	EFHD2	hsa-mir-193b*	-0.0676
CELSR3	hsa-mir-183	-0.4150	UCP2	hsa-mir-708	-0.2000	ZNF512	hsa-mir-193b*	-0.0676
HDAC7	hsa-mir-193b*	-0.4147	CD86	hsa-mir-708	-0.2000	HDAC9	hsa-mir-25*	-0.0676
CARD11	hsa-mir-181c	-0.4147	DCUN1D3	hsa-mir-141*	-0.1977	NUPL1	hsa-mir-25*	-0.0676
MYL12A	hsa-mir-708	-0.4118	DENND4A	hsa-mir-96	-0.1976	ARHGAP21	hsa-mir-183	-0.0657
GPM6A	hsa-mir-708	-0.4118	POLR3G	hsa-mir-96	-0.1976	DENND5B	hsa-mir-96	-0.0649
ATP8B1	hsa-mir-181c	-0.4118	SYNE2	hsa-mir-96	-0.1976	KIAA2018	hsa-mir-96	-0.0649
PNOC	hsa-mir-193b*	-0.4118	SH2B3	hsa-mir-181c	-0.1971	SLC39A10	hsa-mir-96	-0.0649
PGAP1	hsa-mir-181c	-0.4118	NLRC3	hsa-mir-193b*	-0.1971	SECISBP2L	hsa-mir-96	-0.0649
TMEM97	hsa-mir-96	-0.4100	CCDC68	hsa-mir-200c	-0.1971	CRTAP	hsa-mir-25*	-0.0647
PMAIP1	hsa-mir-193a-3p	-0.4059	ERI1	hsa-mir-181c	-0.1971	DDX26B	hsa-mir-200c	-0.0647
RNASEL	hsa-mir-708	-0.4059	B3GNT7	hsa-mir-193b*	-0.1971	JMJD6	hsa-mir-708	-0.0647
SLC19A2	hsa-mir-181a	-0.4029	ENTPD1	hsa-mir-200c	-0.1971	ANXA1	hsa-mir-193b*	-0.0647
ETV6	hsa-mir-193a-3p	-0.4029	EBF1	hsa-mir-96	-0.1947	GNB4	hsa-mir-141	-0.0647
DNAJB1	hsa-mir-181a	-0.4029	ZNF563	hsa-mir-181a	-0.1941	C14orf4	hsa-mir-141	-0.0647
C14orf43	hsa-mir-193a-5p	-0.4029	TMEM56	hsa-mir-25*	-0.1941	SNAPC3	hsa-mir-193a-5p	-0.0647
AP1S3	hsa-mir-141	-0.4000	CELSR3	hsa-mir-181c	-0.1941	ZNF33B	hsa-mir-455-5p	-0.0647
LETM2	hsa-mir-193a-5p	-0.4000	DCAF16	hsa-mir-181c	-0.1941	PPP1R3B	hsa-mir-193a-5p	-0.0647
NME4	hsa-mir-193a-5p	-0.4000	ERGIC1	hsa-mir-25*	-0.1941	RNF170	hsa-mir-25*	-0.0647
PTPN7	hsa-mir-708	-0.4000	RXRRA	hsa-mir-25*	-0.1941	CBL	hsa-mir-200c	-0.0647
PLEKHG2	hsa-mir-193b*	-0.4000	PARVG	hsa-mir-193b*	-0.1941	GNG5	hsa-mir-183	-0.0627
AEBP1	hsa-mir-193b*	-0.3971	MAP9	hsa-mir-193a-5p	-0.1941	DPY19L3	hsa-mir-96	-0.0619
MPEG1	hsa-mir-708	-0.3971	ZNF664	hsa-mir-181a	-0.1912	CHIC1	hsa-mir-96	-0.0619
MDFIC	hsa-mir-200c	-0.3971	PRSS1	hsa-mir-193a-5p	-0.1912	TBC1D12	hsa-mir-200c	-0.0618
MEF2C	hsa-mir-183	-0.3971	HSP90B1	hsa-mir-181a	-0.1912	ZNF546	hsa-mir-25*	-0.0618
TRIB1	hsa-mir-193a-5p	-0.3941	NMT2	hsa-mir-181c	-0.1912	RP2	hsa-mir-181c	-0.0618
PPAPDC2	hsa-mir-200c	-0.3941	USP6NL	hsa-mir-181c	-0.1912	SNX2	hsa-mir-193a-5p	-0.0618
EGR1	hsa-mir-181c	-0.3912	ITPR2	hsa-mir-96	-0.1888	ZEB1	hsa-mir-200c	-0.0618
WNT16	hsa-mir-200c	-0.3882	C14orf43	hsa-mir-96	-0.1888	TBC1D5	hsa-mir-193b*	-0.0618
PMAIP1	hsa-mir-200c	-0.3882	GSTM4	hsa-mir-193b*	-0.1882	KIAA0240	hsa-mir-96	-0.0590
SIDT1	hsa-mir-193b*	-0.3882	KPNA1	hsa-mir-181a	-0.1882	NAP1L3	hsa-mir-96	-0.0590
AP1S3	hsa-mir-181c	-0.3853	MYEF2	hsa-mir-25*	-0.1882	ANP32B	hsa-mir-25*	-0.0588
EGR3	hsa-mir-200c	-0.3853	POU2AF1	hsa-mir-193b*	-0.1882	MEGF9	hsa-mir-141	-0.0588
ERF	hsa-mir-25*	-0.3853	NCEH1	hsa-mir-141	-0.1882	AAK1	hsa-mir-708	-0.0588
SLC9A8	hsa-mir-181c	-0.3824	NAA40	hsa-mir-193b*	-0.1882	MCTS1	hsa-mir-25*	-0.0588

KLF3	hsa-mir-141	-0.3824	CAPN2	hsa-mir-193b*	-0.1882	RNF170	hsa-mir-200c	-0.0588
TMEM19	hsa-mir-708	-0.3824	DCUN1D3	hsa-mir-141	-0.1853	CD163	hsa-mir-181a	-0.0588
SESN1	hsa-mir-183	-0.3821	KLHL3	hsa-mir-181c	-0.1853	C2CD2	hsa-mir-96	-0.0560
FAM135A	hsa-mir-183*	-0.3821	ATP5D	hsa-mir-193b*	-0.1853	BCL11A	hsa-mir-96	-0.0560
RNF41	hsa-mir-96	-0.3805	TGFBR1	hsa-mir-141	-0.1853	C3orf59	hsa-mir-181a	-0.0559
VTI1A	hsa-mir-193b*	-0.3794	SETD7	hsa-mir-200c	-0.1853	CLYBL	hsa-mir-193a-5p	-0.0559
HEMK1	hsa-mir-708	-0.3794	MBNL3	hsa-mir-183	-0.1851	WDR91	hsa-mir-200c	-0.0559
PELI1	hsa-mir-141	-0.3794	DEPDC5	hsa-mir-183	-0.1851	INTS8	hsa-mir-200c	-0.0559
CPEB4	hsa-mir-181c	-0.3794	DBF4	hsa-mir-193b*	-0.1824	BCKDHB	hsa-mir-181a	-0.0559
AHR	hsa-mir-96	-0.3776	MLLT11	hsa-mir-193b*	-0.1824	TNS3	hsa-mir-25*	-0.0559
FRMD5	hsa-mir-455-5p	-0.3765	DGKA	hsa-mir-200c	-0.1824	SLC16A7	hsa-mir-96	-0.0531
C14orf43	hsa-mir-181a	-0.3765	SUMF1	hsa-mir-181c	-0.1824	SYT11	hsa-mir-181c	-0.0529
SLAMF6	hsa-mir-708	-0.3735	SNX1	hsa-mir-183	-0.1821	IRF4	hsa-mir-193a-5p	-0.0529
GPD1L	hsa-mir-181a	-0.3735	CAT	hsa-mir-141*	-0.1815	NUFIP2	hsa-mir-181a	-0.0529
PDPK1	hsa-mir-193b*	-0.3735	CTDSP1	hsa-mir-96	-0.1799	PKHD1L1	hsa-mir-193b*	-0.0529
KLF6	hsa-mir-181a	-0.3706	PGAP1	hsa-mir-96	-0.1799	RAPGEF2	hsa-mir-193a-5p	-0.0529
SUMO3	hsa-mir-193b*	-0.3706	ZCCHC24	hsa-mir-25*	-0.1794	UST	hsa-mir-141*	-0.0519
SH3BGRL3	hsa-mir-25*	-0.3706	MOCS2	hsa-mir-25*	-0.1794	PAK2	hsa-mir-708*	-0.0507
EIF2S3	hsa-mir-141	-0.3676	SLC7A1	hsa-mir-193a-5p	-0.1794	RALGPS1	hsa-mir-96	-0.0501
GCNT2	hsa-mir-181a	-0.3676	CD37	hsa-mir-25*	-0.1794	ABI2	hsa-mir-193b*	-0.0500
PPAPDC1B	hsa-mir-193b*	-0.3676	NHLRC3	hsa-mir-96	-0.1770	NCF2	hsa-mir-193b*	-0.0500
NFKBID	hsa-mir-455-3p	-0.3676	HYOU1	hsa-mir-181c	-0.1765	UBE2D1	hsa-mir-200c	-0.0500
CD69	hsa-mir-181c	-0.3676	CHD2	hsa-mir-141	-0.1765	USP9Y	hsa-mir-181c	-0.0500
KIAA0101	hsa-mir-183	-0.3672	PPAP2B	hsa-mir-181a	-0.1765	SIPA1L3	hsa-mir-193a-5p	-0.0471
CYP2U1	hsa-mir-193a-5p	-0.3647	ERI1	hsa-mir-200c	-0.1765	TBC1D1	hsa-mir-181c	-0.0471
NME1	hsa-mir-141	-0.3647	SH2B3	hsa-mir-181a	-0.1735	FOSB	hsa-mir-25*	-0.0471
SLC2A3	hsa-mir-181c	-0.3647	ELF4	hsa-mir-25*	-0.1735	NIPAL4	hsa-mir-181a	-0.0471
ATP2C1	hsa-mir-183	-0.3642	STRBP	hsa-mir-193b*	-0.1735	SASH3	hsa-mir-193b*	-0.0471
IDH2	hsa-mir-183	-0.3642	ERGIC1	hsa-mir-193b*	-0.1735	RANBP10	hsa-mir-25*	-0.0471
DUSP10	hsa-mir-181a	-0.3618	AASDHPPT	hsa-mir-181c	-0.1735	RPS6KA2	hsa-mir-193b*	-0.0471
SPARC	hsa-mir-708	-0.3618	CELSR3	hsa-mir-181a	-0.1706	CRTC3	hsa-mir-193b*	-0.0471
NRIP1	hsa-mir-455-5p	-0.3618	KDSR	hsa-mir-455-5p	-0.1706	VAMP1	hsa-mir-200c	-0.0471
MCTP2	hsa-mir-193b*	-0.3588	GPN3	hsa-mir-181a	-0.1706	ST8SIA4	hsa-mir-181a	-0.0471
BHLHE40	hsa-mir-181a	-0.3588	NIN	hsa-mir-200c	-0.1706	NIPAL2	hsa-mir-193b*	-0.0471
ARL10	hsa-mir-96	-0.3569	ProSAPiP1	hsa-mir-25*	-0.1706	STX16	hsa-mir-141	-0.0471
SYNCRIP	hsa-mir-141*	-0.3565	SPCS2	hsa-mir-193a-5p	-0.1706	B4GALT5	hsa-mir-25*	-0.0471
CTRL	hsa-mir-193b*	-0.3559	ZDHHC2	hsa-mir-96	-0.1681	CD37	hsa-mir-193a-5p	-0.0471

PI4K2A	hsa-mir-181c	-0.3559	MAFF	hsa-mir-708	-0.1676	ARHGAP26	hsa-mir-183	-0.0448
RBM3	hsa-mir-181c	-0.3559	FOXP1	hsa-mir-181c	-0.1676	INPP4A	hsa-mir-183	-0.0448
CBLB	hsa-mir-181c	-0.3559	INPP5A	hsa-mir-25*	-0.1676	ADARB1	hsa-mir-181a	-0.0441
PCCA	hsa-mir-183	-0.3553	TMEM70	hsa-mir-200c	-0.1676	CUGBP2	hsa-mir-193b*	-0.0441
ACSL1	hsa-mir-181c	-0.3529	TAP2	hsa-mir-141	-0.1676	GSPT1	hsa-mir-193b*	-0.0441
CCDC49	hsa-mir-193a-5p	-0.3529	PGAP1	hsa-mir-200c	-0.1676	KLHL28	hsa-mir-25*	-0.0441
PTPRE	hsa-mir-181c	-0.3529	BMF	hsa-mir-181a	-0.1676	OXR1	hsa-mir-200c	-0.0441
PCIF1	hsa-mir-193b*	-0.3529	NOD1	hsa-mir-193b*	-0.1647	SEC61A2	hsa-mir-25*	-0.0441
CPEB4	hsa-mir-455-5p	-0.3529	CYP2C8	hsa-mir-193b*	-0.1647	PAK6	hsa-mir-200c	-0.0441
INTS6	hsa-mir-200c	-0.3500	ELL2	hsa-mir-193a-5p	-0.1647	RAD51L1	hsa-mir-193b*	-0.0441
MTX3	hsa-mir-181a	-0.3500	OSTF1	hsa-mir-141	-0.1647	CCL22	hsa-mir-193b*	-0.0441
SERPINB9	hsa-mir-193b*	-0.3500	GPM6A	hsa-mir-200c	-0.1647	ZNF230	hsa-mir-193b*	-0.0441
PEA15	hsa-mir-193a-5p	-0.3500	TP53INP2	hsa-mir-25*	-0.1647	MOBKLB	hsa-mir-181c	-0.0441
BAG4	hsa-mir-181a	-0.3500	SMC6	hsa-mir-193a-5p	-0.1647	HDHD1A	hsa-mir-141*	-0.0421
NEFL	hsa-mir-183	-0.3493	USP8	hsa-mir-193b*	-0.1647	FGFBP2	hsa-mir-141*	-0.0421
E2F5	hsa-mir-96	-0.3481	UTY	hsa-mir-96	-0.1622	TRIB1	hsa-mir-193b*	-0.0412
AP1S3	hsa-mir-181a	-0.3471	LYSMD3	hsa-mir-193a-5p	-0.1618	CCDC17	hsa-mir-181c	-0.0412
AK2	hsa-mir-200c	-0.3471	AEBP1	hsa-mir-193a-5p	-0.1618	INPP5A	hsa-mir-181c	-0.0412
TTC28	hsa-mir-193b*	-0.3471	CDK5R1	hsa-mir-193a-5p	-0.1618	CDK14	hsa-mir-25*	-0.0412
SH2B3	hsa-mir-193b*	-0.3441	UNC84B	hsa-mir-96	-0.1593	BRWD1	hsa-mir-181a	-0.0412
EGR3	hsa-mir-181c	-0.3441	YAF2	hsa-mir-141	-0.1588	FNDC3B	hsa-mir-200c	-0.0412
ANKRD33B	hsa-mir-193a-5p	-0.3441	POLR3G	hsa-mir-193a-5p	-0.1588	LUZP1	hsa-mir-181a	-0.0412
ZEB2	hsa-mir-183	-0.3433	ETV6	hsa-mir-181a	-0.1588	AFF3	hsa-mir-708*	-0.0406
SH3BGRL3	hsa-mir-96	-0.3422	STAP1	hsa-mir-193b*	-0.1588	KIAA2018	hsa-mir-183	-0.0388
PLEKHG2	hsa-mir-193a-5p	-0.3412	ARL17A	hsa-mir-708	-0.1588	CHML	hsa-mir-96	-0.0383
C14orf43	hsa-mir-193b*	-0.3412	YOD1	hsa-mir-181c	-0.1588	YAF2	hsa-mir-25*	-0.0382
NR1D2	hsa-mir-193b*	-0.3412	BCL11B	hsa-mir-141	-0.1588	CDK6	hsa-mir-141	-0.0382
F13A1	hsa-mir-96	-0.3392	AMMECR1L	hsa-mir-25*	-0.1588	KIAA1949	hsa-mir-25*	-0.0382
CHRNA1	hsa-mir-193b*	-0.3382	FAM107B	hsa-mir-200c	-0.1588	AHR	hsa-mir-200c	-0.0382
IFFO2	hsa-mir-193a-5p	-0.3382	SGCE	hsa-mir-200c	-0.1588	SIDT2	hsa-mir-193b*	-0.0382
PHLDA1	hsa-mir-181c	-0.3382	BAG4	hsa-mir-181c	-0.1588	DDIT4	hsa-mir-181c	-0.0382
ZNF510	hsa-mir-193a-3p	-0.3382	USP6NL	hsa-mir-200c	-0.1588	USP40	hsa-mir-193b*	-0.0382
HIST1H2AE	hsa-mir-181a-2*	-0.3382	SPIN3	hsa-mir-96	-0.1563	PLCXD1	hsa-mir-193b*	-0.0382
C1orf186	hsa-mir-193b*	-0.3382	CNR1	hsa-mir-181c	-0.1559	UCP2	hsa-mir-25*	-0.0382
SERPINF1	hsa-mir-193b*	-0.3382	CCDC17	hsa-mir-181a	-0.1559	ADAM19	hsa-mir-25*	-0.0382
CCDC88A	hsa-mir-193b*	-0.3382	SIPA1L3	hsa-mir-25*	-0.1559	RAPGEF2	hsa-mir-200c	-0.0382
BCL11B	hsa-mir-183	-0.3374	LDLRAP1	hsa-mir-193b*	-0.1559	CDK6	hsa-mir-25*	-0.0353

BRWD1	hsa-mir-96	-0.3363	COPG2	hsa-mir-708	-0.1559	PPARGC1B	hsa-mir-193b*	-0.0353
MAFF	hsa-mir-193b*	-0.3353	SUMF1	hsa-mir-181a	-0.1559	CYTH4	hsa-mir-193a-5p	-0.0353
CHORDC1	hsa-mir-200c	-0.3353	POU2AF1	hsa-mir-25*	-0.1559	MAP1A	hsa-mir-181c	-0.0353
TNFRSF1B	hsa-mir-193b*	-0.3353	ZNF654	hsa-mir-181c	-0.1559	MTF1	hsa-mir-181a	-0.0353
AAK1	hsa-mir-193a-3p	-0.3324	SELI	hsa-mir-181c	-0.1559	ERRF1	hsa-mir-200c	-0.0353
AASDHPPT	hsa-mir-181a	-0.3324	SYNJ1	hsa-mir-181a-2*	-0.1559	NRIP3	hsa-mir-193a-5p	-0.0353
VPS13B	hsa-mir-708	-0.3294	TOX	hsa-mir-181c	-0.1559	P11	hsa-mir-193b*	-0.0353
KLF3	hsa-mir-200c	-0.3294	PRDM4	hsa-mir-181a	-0.1529	KLHL6	hsa-mir-193b*	-0.0353
USP53	hsa-mir-141	-0.3294	KIAA0564	hsa-mir-193b*	-0.1529	LIMS3	hsa-mir-193a-5p	-0.0353
CDADC1	hsa-mir-708	-0.3294	NDRG3	hsa-mir-193b*	-0.1529	UBAP2L	hsa-mir-25*	-0.0353
PHACTR1	hsa-mir-183	-0.3284	ZNF608	hsa-mir-193b*	-0.1529	CUGBP2	hsa-mir-183	-0.0328
GALNT2	hsa-mir-200c	-0.3265	GORAB	hsa-mir-181c	-0.1529	OSBPL10	hsa-mir-96	-0.0324
AFF3	hsa-mir-193b*	-0.3265	UBE2L6	hsa-mir-708	-0.1529	C3orf59	hsa-mir-181c	-0.0324
PIGR	hsa-mir-193b*	-0.3265	VAV3	hsa-mir-193a-5p	-0.1500	SACS	hsa-mir-200c	-0.0324
SDK2	hsa-mir-25*	-0.3265	ATP6V1C2	hsa-mir-141	-0.1500	MAP1A	hsa-mir-708	-0.0324
KLHL18	hsa-mir-141	-0.3235	DCAF8	hsa-mir-200c	-0.1500	NAB1	hsa-mir-200c	-0.0324
LCP1	hsa-mir-708	-0.3235	PBXIP1	hsa-mir-193b*	-0.1500	EXOSC3	hsa-mir-181a	-0.0324
PRKAA1	hsa-mir-193b*	-0.3235	LMF1	hsa-mir-193a-5p	-0.1500	RNFT1	hsa-mir-141	-0.0324
C14orf43	hsa-mir-141	-0.3235	CLMN	hsa-mir-193b*	-0.1500	PLAGL2	hsa-mir-193a-3p	-0.0324
SLC9A8	hsa-mir-181a	-0.3206	MAML2	hsa-mir-200c	-0.1500	ANKRD33B	hsa-mir-25*	-0.0324
KBTBD8	hsa-mir-200c	-0.3206	PPAP2B	hsa-mir-181c	-0.1500	BHLHE41	hsa-mir-181c	-0.0324
PDE4D	hsa-mir-183	-0.3194	L3MBTL3	hsa-mir-183	-0.1493	MACROD2	hsa-mir-183	-0.0299
DUSP10	hsa-mir-181c	-0.3176	SYNJ2BP	hsa-mir-96	-0.1475	PLD4	hsa-mir-193b*	-0.0294
FOS	hsa-mir-181a	-0.3176	RCOR1	hsa-mir-181a	-0.1471	ARHGAP26	hsa-mir-141	-0.0294
ATPBD4	hsa-mir-193b*	-0.3176	KRAS	hsa-mir-181c	-0.1471	PFN2	hsa-mir-193b*	-0.0294
FAM3C	hsa-mir-181a	-0.3147	DDA1	hsa-mir-25*	-0.1471	POU2F2	hsa-mir-25*	-0.0294
DUSP8	hsa-mir-193a-5p	-0.3147	GNPTAB	hsa-mir-193b*	-0.1471	IARS2	hsa-mir-193a-5p	-0.0294
TPCN2	hsa-mir-193a-5p	-0.3147	BHLHE41	hsa-mir-181a	-0.1471	PTBP2	hsa-mir-455-5p	-0.0294
KIF1B	hsa-mir-181c	-0.3147	METTL8	hsa-mir-96	-0.1445	TNFRSF1B	hsa-mir-25*	-0.0294
ASPHD2	hsa-mir-181a	-0.3147	ZNF664	hsa-mir-181c	-0.1441	C15orf29	hsa-mir-455-3p	-0.0294
SLC2A3	hsa-mir-200c	-0.3147	FLOT2	hsa-mir-25*	-0.1441	UBASH3B	hsa-mir-193a-5p	-0.0294
SORD	hsa-mir-708	-0.3147	RBM20	hsa-mir-25*	-0.1441	ADAM19	hsa-mir-193b*	-0.0294
CCDC82	hsa-mir-200c	-0.3147	JUN	hsa-mir-200c	-0.1441	CLDN12	hsa-mir-141	-0.0294
UCK2	hsa-mir-96	-0.3127	CREB3L2	hsa-mir-25*	-0.1441	NEXN	hsa-mir-181a	-0.0294
PLEKHA7	hsa-mir-708	-0.3118	BAIAP2	hsa-mir-181c	-0.1412	NMT2	hsa-mir-455-5p	-0.0294
ETV6	hsa-mir-193b*	-0.3118	BAZ2A	hsa-mir-181c	-0.1412	TNKS	hsa-mir-183	-0.0269
MTX3	hsa-mir-193b*	-0.3118	AKAP11	hsa-mir-141	-0.1412	DAB2IP	hsa-mir-193b*	-0.0265

BHLHE40	hsa-mir-141	-0.3118	IFFO2	hsa-mir-181a-2*	-0.1412	ETS1	hsa-mir-455-5p	-0.0265
DDX3Y	hsa-mir-200c	-0.3118	WDR33	hsa-mir-141	-0.1412	R3HDM2	hsa-mir-200c	-0.0265
KLHL18	hsa-mir-96	-0.3097	SYNJ2BP	hsa-mir-183	-0.1403	GPD1L	hsa-mir-193b*	-0.0265
BAIAP2	hsa-mir-181a	-0.3088	AIM1	hsa-mir-141*	-0.1394	DNMBP	hsa-mir-193a-5p	-0.0265
KIF1B	hsa-mir-181a	-0.3088	CUGBP2	hsa-mir-96	-0.1386	LAMC1	hsa-mir-200c	-0.0265
PTPRE	hsa-mir-181a	-0.3088	AKAP13	hsa-mir-193a-5p	-0.1382	PPAPDC2	hsa-mir-193a-5p	-0.0265
PGAP1	hsa-mir-181a	-0.3088	VTI1A	hsa-mir-200c	-0.1382	LY75	hsa-mir-200c	-0.0265
HEXIM1	hsa-mir-181a	-0.3059	MBLAC2	hsa-mir-200c	-0.1382	NOVA1	hsa-mir-193a-3p	-0.0265
FLJ40125	hsa-mir-193b*	-0.3059	ADRB2	hsa-mir-200c	-0.1382	HOOK1	hsa-mir-193b*	-0.0265
KLHL3	hsa-mir-193b*	-0.3059	SLC39A14	hsa-mir-200c	-0.1382	P704P	hsa-mir-193a-5p	-0.0265
TRIM39	hsa-mir-25*	-0.3059	TMEM188	hsa-mir-200c	-0.1382	TCF4	hsa-mir-25*	-0.0265
CTDSP1	hsa-mir-183	-0.3045	TMEM14A	hsa-mir-200c	-0.1382	NR4A3	hsa-mir-181c	-0.0265
PPM1F	hsa-mir-96	-0.3038	KPNA1	hsa-mir-181c	-0.1382	DDX3Y	hsa-mir-181c	-0.0265
CDR2	hsa-mir-25*	-0.3029	NDRG3	hsa-mir-25*	-0.1382	KIAA0101	hsa-mir-200c	-0.0265
SLC19A2	hsa-mir-181c	-0.3029	P704P	hsa-mir-193b*	-0.1382	TRIAP1	hsa-mir-96	-0.0236
JMJD6	hsa-mir-193a-5p	-0.3029	SNAPC1	hsa-mir-200c	-0.1382	CCR1	hsa-mir-193b*	-0.0235
AMPD2	hsa-mir-193b*	-0.3029	TCF4	hsa-mir-193b*	-0.1382	FANCD2	hsa-mir-25*	-0.0235
NDST1	hsa-mir-193b*	-0.3029	SYS1	hsa-mir-200c	-0.1382	FLI1	hsa-mir-200c	-0.0235
TMF1	hsa-mir-181c	-0.3029	B3GNT7	hsa-mir-708	-0.1382	CFP	hsa-mir-193b*	-0.0235
ZNF614	hsa-mir-25*	-0.3029	SKAP2	hsa-mir-183	-0.1373	MFSD6	hsa-mir-181c	-0.0235
ADD3	hsa-mir-455-5p	-0.3000	RBM14	hsa-mir-25*	-0.1353	CCDC64	hsa-mir-25*	-0.0235
TTC9	hsa-mir-25*	-0.3000	POLR3G	hsa-mir-193b*	-0.1353	MAF	hsa-mir-96	-0.0206
HSPA5	hsa-mir-181a	-0.3000	FOXP1	hsa-mir-141	-0.1353	BTN2A2	hsa-mir-193b*	-0.0206
TMF1	hsa-mir-181a	-0.3000	GNG7	hsa-mir-193a-5p	-0.1353	ADARB1	hsa-mir-181c	-0.0206
SETD7	hsa-mir-25*	-0.3000	MDM4	hsa-mir-193a-5p	-0.1353	DUSP7	hsa-mir-25*	-0.0206
ETV6	hsa-mir-181c	-0.2971	SULF2	hsa-mir-193b*	-0.1353	AIM1	hsa-mir-200c	-0.0206
NOVA1	hsa-mir-200c	-0.2971	CDC42SE1	hsa-mir-193b*	-0.1353	NPTN	hsa-mir-181a	-0.0206
PLCXD1	hsa-mir-708	-0.2971	TNFSF12	hsa-mir-25*	-0.1353	COQ2	hsa-mir-181a	-0.0206
ENTPD1	hsa-mir-193b*	-0.2971	SLC9A1	hsa-mir-25*	-0.1339	IKBKB	hsa-mir-200c	-0.0206
C3orf34	hsa-mir-141*	-0.2949	ADAMTS6	hsa-mir-200c	-0.1324	SLC16A1	hsa-mir-193b*	-0.0206
NHEDC2	hsa-mir-193a-5p	-0.2941	KIF1B	hsa-mir-141	-0.1324	C15orf29	hsa-mir-181a	-0.0206
NDST1	hsa-mir-200c	-0.2941	TCP11L2	hsa-mir-141	-0.1324	KBTD6	hsa-mir-200c	-0.0206
RDX	hsa-mir-200c	-0.2941	KCNQ5	hsa-mir-200c	-0.1324	CSNK1E	hsa-mir-25*	-0.0176
ERI1	hsa-mir-181a	-0.2941	PAK6	hsa-mir-181a	-0.1324	TTC33	hsa-mir-200c	-0.0176
EIF2S1	hsa-mir-200c	-0.2912	AAK1	hsa-mir-183	-0.1314	GABRB2	hsa-mir-25*	-0.0176
GEN1	hsa-mir-181c	-0.2912	CPEB4	hsa-mir-96	-0.1298	SCOC	hsa-mir-200c	-0.0176
CCDC88A	hsa-mir-193a-3p	-0.2912	MEGF6	hsa-mir-193b*	-0.1295	RPGR	hsa-mir-193b*	-0.0176

CD69	hsa-mir-181a	-0.2912	TMEM170B	hsa-mir-200c	-0.1294	SYNJ1	hsa-mir-193a-5p	-0.0176
SLC23A2	hsa-mir-193a-3p	-0.2912	KLF6	hsa-mir-193b*	-0.1294	B4GALT5	hsa-mir-193b*	-0.0176
CSNK1E	hsa-mir-141	-0.2882	FBXO41	hsa-mir-181c	-0.1294	LRBA	hsa-mir-181a	-0.0176
ECE1	hsa-mir-193a-5p	-0.2882	EMP1	hsa-mir-200c	-0.1294	PHF10	hsa-mir-96	-0.0147
SLC17A9	hsa-mir-193a-5p	-0.2882	C16orf72	hsa-mir-200c	-0.1294	CNR1	hsa-mir-193b*	-0.0147
SP100	hsa-mir-193b*	-0.2882	LSP1	hsa-mir-25*	-0.1294	DTX3L	hsa-mir-200c	-0.0147
CPEB4	hsa-mir-141	-0.2882	PAX5	hsa-mir-708	-0.1294	ETS1	hsa-mir-193a-3p	-0.0147
LCP1	hsa-mir-96	-0.2861	PIP4K2A	hsa-mir-200c	-0.1294	HLA-DPB1	hsa-mir-193b*	-0.0147
ERF	hsa-mir-181a	-0.2853	SIDT2	hsa-mir-183	-0.1284	IL7	hsa-mir-200c	-0.0147
TNFAIP1	hsa-mir-181a	-0.2853	CCDC117	hsa-mir-181c	-0.1265	DCAF16	hsa-mir-181a	-0.0147
TRAF1	hsa-mir-193b*	-0.2853	DUSP5	hsa-mir-181a	-0.1265	PPP1R10	hsa-mir-200c	-0.0147
BHLHE41	hsa-mir-193b*	-0.2853	LOC283104	hsa-mir-708	-0.1265	BACH2	hsa-mir-708	-0.0147
ARL4C	hsa-mir-96	-0.2832	IL1A	hsa-mir-181a	-0.1265	CBFA2T3	hsa-mir-25*	-0.0147
ZNF831	hsa-mir-96	-0.2832	GPN3	hsa-mir-181c	-0.1265	FNDC3B	hsa-mir-183	-0.0119
DTL	hsa-mir-96	-0.2832	PLAUR	hsa-mir-193b*	-0.1265	CDKN1C	hsa-mir-193a-5p	-0.0118
HDAC7	hsa-mir-96	-0.2832	CASP10	hsa-mir-193b*	-0.1265	BET1	hsa-mir-193a-5p	-0.0118
RHOBTB2	hsa-mir-193b*	-0.2824	RELT	hsa-mir-25*	-0.1265	BTN2A2	hsa-mir-193a-5p	-0.0118
HNRNPAB	hsa-mir-141	-0.2824	SETD7	hsa-mir-183	-0.1254	C7orf60	hsa-mir-200c	-0.0118
NFKB2	hsa-mir-193b*	-0.2824	AAK1	hsa-mir-181c	-0.1235	ARID2	hsa-mir-25*	-0.0118
CDC42SE1	hsa-mir-708	-0.2824	R3HDM2	hsa-mir-193a-5p	-0.1235	EVI2A	hsa-mir-181a	-0.0118
TOX	hsa-mir-181a	-0.2824	TNFRSF21	hsa-mir-193a-3p	-0.1235	GPD2	hsa-mir-181a	-0.0118
CHD2	hsa-mir-200c	-0.2794	SERPINB8	hsa-mir-181a	-0.1235	IDE	hsa-mir-193b*	-0.0118
CNST	hsa-mir-200c	-0.2794	APOO	hsa-mir-181a	-0.1235	ZC3H6	hsa-mir-200c	-0.0118
DMD	hsa-mir-200c	-0.2794	C7orf29	hsa-mir-193b*	-0.1206	LSS	hsa-mir-25*	-0.0118
SIK2	hsa-mir-200c	-0.2794	ACVR1C	hsa-mir-181a	-0.1206	RRP15	hsa-mir-141	-0.0118
FOS	hsa-mir-181c	-0.2794	TCP11L2	hsa-mir-193a-5p	-0.1206	EGLN1	hsa-mir-193a-5p	-0.0118
ATP8B1	hsa-mir-181a	-0.2794	PAK6	hsa-mir-181c	-0.1206	TNS3	hsa-mir-708	-0.0118
SHMT2	hsa-mir-141	-0.2794	KIAA1430	hsa-mir-25*	-0.1206	WIPF1	hsa-mir-25*	-0.0118
TMF1	hsa-mir-141	-0.2794	RBM4	hsa-mir-455-3p	-0.1206	REEP5	hsa-mir-708	-0.0118
HNRPLL	hsa-mir-193a-5p	-0.2794	TCF4	hsa-mir-200c	-0.1206	ZMYM1	hsa-mir-193b*	-0.0118
ABI2	hsa-mir-183	-0.2776	NR4A3	hsa-mir-181a	-0.1206	USP42	hsa-mir-181a	-0.0118
JUNB	hsa-mir-193b*	-0.2765	FCRLA	hsa-mir-193b*	-0.1206	C1orf198	hsa-mir-25*	-0.0118
NOVA1	hsa-mir-181c	-0.2765	PRC1	hsa-mir-193b*	-0.1206	FAIM3	hsa-mir-193b*	-0.0118
SLC2A3	hsa-mir-181a	-0.2765	E2F5	hsa-mir-181a	-0.1176	SPATA2	hsa-mir-141	-0.0118
C17orf101	hsa-mir-193b*	-0.2765	FAM102A	hsa-mir-193b*	-0.1176	DIRC2	hsa-mir-183	-0.0090
NR4A2	hsa-mir-183	-0.2747	ZNF295	hsa-mir-193b*	-0.1176	CTSB	hsa-mir-96	-0.0088
KRAS	hsa-mir-25*	-0.2735	BRWD1	hsa-mir-181c	-0.1176	TMCC1	hsa-mir-200c	-0.0088

ZNF664	hsa-mir-96	-0.2714	CCDC47	hsa-mir-200c	-0.1176	SIRT5	hsa-mir-193b*	-0.0088
SETD7	hsa-mir-96	-0.2714	USP9Y	hsa-mir-141	-0.1176	PDE4A	hsa-mir-193a-5p	-0.0088
CTRL	hsa-mir-193a-5p	-0.2706	ZEB2	hsa-mir-200c	-0.1176	GNB4	hsa-mir-181c	-0.0088
DTX3	hsa-mir-25*	-0.2706	PIP4K2B	hsa-mir-183	-0.1164	RORA	hsa-mir-193a-5p	-0.0088
ARID2	hsa-mir-181a	-0.2706	RSU1	hsa-mir-96	-0.1150	EIF3J	hsa-mir-193a-5p	-0.0088
ERCC1	hsa-mir-193b*	-0.2706	CRTAP	hsa-mir-200c	-0.1147	SLC25A44	hsa-mir-193a-5p	-0.0088
MARCKS	hsa-mir-193a-5p	-0.2706	DLG2	hsa-mir-193b*	-0.1147	ALDOC	hsa-mir-25*	-0.0059
MAFG	hsa-mir-200c	-0.2706	DLST	hsa-mir-455-5p	-0.1147	KRAS	hsa-mir-708	-0.0059
PI4K2A	hsa-mir-193b*	-0.2706	IKZF3	hsa-mir-193b*	-0.1147	LCP1	hsa-mir-25*	-0.0059
SNRPN	hsa-mir-25*	-0.2706	ABTB2	hsa-mir-181c	-0.1147	ZNF230	hsa-mir-141	-0.0059
BHLHE40	hsa-mir-181c	-0.2706	MYCBP	hsa-mir-181a	-0.1147	NAA40	hsa-mir-193a-5p	-0.0059
EGR3	hsa-mir-96	-0.2684	NAB1	hsa-mir-181a	-0.1147	SLC23A2	hsa-mir-141	-0.0059
WHAMM	hsa-mir-181a	-0.2676	NEDD9	hsa-mir-25*	-0.1147	SYNJ2BP	hsa-mir-141*	-0.0032
XPOT	hsa-mir-183	-0.2657	RHOT1	hsa-mir-200c	-0.1147	CD84	hsa-mir-141*	-0.0032
GPM6A	hsa-mir-96	-0.2655	ANKH	hsa-mir-200c	-0.1147	IL16	hsa-mir-183	-0.0030
ARL4A	hsa-mir-141	-0.2647	SLAMF7	hsa-mir-193b*	-0.1147	FAM171A1	hsa-mir-96	-0.0029
BCL11B	hsa-mir-193a-5p	-0.2647	TNS3	hsa-mir-141	-0.1147	PCNX	hsa-mir-96	-0.0029
ZNF516	hsa-mir-141	-0.2647	GCM1	hsa-mir-25*	-0.1147	FOXO1	hsa-mir-96	-0.0029
BTN3A3	hsa-mir-708	-0.2618	DUSP8	hsa-mir-193b*	-0.1118	MYL12A	hsa-mir-25*	-0.0029
ETV6	hsa-mir-193a-5p	-0.2618	FAM129C	hsa-mir-193b*	-0.1118	BAZ2A	hsa-mir-181a	-0.0029
ZNF473	hsa-mir-193a-5p	-0.2618	PRMT2	hsa-mir-455-5p	-0.1118	TMEM71	hsa-mir-181c	-0.0029
PAK6	hsa-mir-193b*	-0.2618	RAD23B	hsa-mir-181a	-0.1118	NANP	hsa-mir-193a-5p	-0.0029
SESN2	hsa-mir-141	-0.2618	BCL11B	hsa-mir-25*	-0.1118	SCUBE3	hsa-mir-193a-5p	-0.0029
CASP10	hsa-mir-181a	-0.2618	SPP1	hsa-mir-181c	-0.1118	RRP1B	hsa-mir-25*	-0.0029
C14orf118	hsa-mir-96	-0.2596	TFRC	hsa-mir-141	-0.1118	ZC3H13	hsa-mir-25*	-0.0029
ERLIN1	hsa-mir-200c	-0.2588	TGFBR1	hsa-mir-181c	-0.1118	PHPT1	hsa-mir-193b*	-0.0029
CKAP4	hsa-mir-193a-5p	-0.2588	CCDC64	hsa-mir-181c	-0.1118	BACH2	hsa-mir-141	-0.0029
EGR3	hsa-mir-25*	-0.2588	SLC23A2	hsa-mir-200c	-0.1118	SLC12A2	hsa-mir-25*	-0.0029
FOXP1	hsa-mir-200c	-0.2588	MAP2	hsa-mir-25*	-0.1104	SYNJ1	hsa-mir-193b*	-0.0029
MGAT2	hsa-mir-200c	-0.2588	NOVA1	hsa-mir-96	-0.1091	ZNF264	hsa-mir-25*	-0.0029
ARRDC4	hsa-mir-200c	-0.2588	TRIM9	hsa-mir-25*	-0.1088	TMCC1	hsa-mir-181a	-0.0015



**Supplementary Table 7b. Significant results from GSEA analysis from pre-ranked list of correlations between IGHV-related miRs and their putative targets**

**GO TERMS (BP)**

<i>NAME</i>	<i>SIZE</i>	<i>NES</i>	<i>NOM p-val</i>	<i>FDR q-val</i>
RESPONSE_TO_STRESS	59	-1.6319	0.0000	0.2178
REGULATION_OF_BIOLOGICAL_QUALITY	34	-1.7001	0.0049	0.2152
HOMEOSTATIC_PROCESS	20	-1.6520	0.0145	0.2344

**CURATED PATHWAYS (C2)**

<i>NAME</i>	<i>SIZE</i>	<i>NES</i>	<i>NOM p-val</i>	<i>FDR q-val</i>
HSA00230_PURINE_METABOLISM	17	-1.8235	0.0095	0.2153
BASSO_GERMINAL_CENTER_CD40_UP	27	-1.8232	0.0103	0.1435
GERY_CEBP_TARGETS	22	-1.8203	0.0052	0.1106
CARIES_PULP_UP	40	-1.7206	0.0052	0.1947
HOFFMANN_BIVSBII_LGBII	16	-1.6865	0.0141	0.2037
ADDYA_K562_HEMIN_TREATMENT	17	-1.6833	0.0196	0.1788
CHEN_HOXA5_TARGETS_UP	37	-1.6534	0.0082	0.1969
PURINE_METABOLISM	15	-1.6501	0.0182	0.1800
ASTON_DEPRESSION_DN	24	-1.6484	0.0141	0.1639
HSA04920_ADIPOCYTOKINE_SIGNALING_PATHWAY	20	-1.6120	0.0205	0.1941

**KEGG PATHWAYS**

<i>NAME</i>	<i>SIZE</i>	<i>NES</i>	<i>NOM p-val</i>	<i>FDR q-val</i>
KEGG_PURINE_METABOLISM	17	-1.8653	0.0074	0.0416
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	18	-1.6951	0.0121	0.0967

**Supplementary Table 7c. Gene lists from significant GSEA analysis results from pre-ranked list of correlations between**

**IGHV-related miRs and their putative targets**

<b>RESPONSE TO STRESS</b>			
<b>GENE</b>	<b>RANK IN GENE LIST</b>	<b>CORE ENRICHMENT</b>	<b>INVERSELY CORRELATED miRs WITH ENRICHED GENES</b>
APOL3	15	No	-
CHST2	90	No	-
MAP4K3	198	No	-
HDAC4	235	No	-
ASF1A	353	No	-
MSH2	374	No	-
SOD2	377	No	-
NHEJ1	381	No	-
SGK3	395	No	-
RFC3	523	No	-
GCLM	538	No	-
FADS1	548	No	-
RPA1	635	No	-
ALKBH1	642	No	-
VPS45	652	No	-
EPAS1	653	No	-
SMAD7	656	No	-
PRNP	705	No	-
SNN	725	No	-
GLRX2	750	No	-
SREBF1	810	No	-
HSPA2	858	No	-
POLA1	890	No	-
BRCA1	902	No	-
MGLL	910	No	-
AIF1	963	No	-
CCR1	1040	No	-
TRIAP1	1044	No	-
LY75	1049	No	-

ERRFI1	1068	No	-
RAD51L1	1086	No	-
CCL22	1087	No	-
ANXA1	1127	No	-
HDAC9	1143	No	-
DHCR24	1183	No	-
GADD45B	1197	No	-
EGLN1	1212	No	-
IL1A	1261	No	-
NOD1	1330	No	-
HSP90B1	1367	No	-
DUSP1	1444	Yes	hsa-mir-200c
RINT1	1447	Yes	hsa-mir-193b*
HSPH1	1464	Yes	hsa-mir-200c
ERCC1	1496	Yes	hsa-mir-193b*
CSNK1E	1521	Yes	hsa-mir-141/hsa-mir-25*
FOS	1557	Yes	hsa-mir-181a/hsa-mir-181c
F13A1	1582	Yes	hsa-mir-181a/hsa-mir-181c/hsa-mir-96
DUSP10	1603	Yes	hsa-mir-181a/hsa-mir-181c/hsa-mir-183
AHR	1620	Yes	hsa-mir-96/hsa-mir-200c
SESN1	1623	Yes	hsa-mir-200c/hsa-mir-183
DNAJB1	1641	Yes	hsa-mir-181a/hsa-mir-181c
RAD23B	1665	Yes	hsa-mir-181a/hsa-mir-181c/hsa-mir-96
CEBPG	1679	Yes	hsa-mir-193a-5p
RIPK2	1694	Yes	hsa-mir-193a-5p
ATM	1705	Yes	hsa-mir-181a/hsa-mir-181c
RAD50	1727	Yes	hsa-mir-183
ADM	1731	Yes	hsa-mir-181a/hsa-mir-181c
ENTPD1	1738	Yes	hsa-mir-183*/hsa-mir-193b*/hsa-mir-96/hsa-mir-200c
DDIT3	1751	Yes	hsa-mir-96

**BASSO\_GERMINAL\_CENTER\_CD40\_UP**

<b>GENE</b>	<b>RANK IN GENE LIST</b>	<b>CORE ENRICHMENT</b>	<b>INVERSELY CORRELATED miRs WITH ENRICHED GENES</b>
MTMR4	219	No	-
BCL2	457	No	-
TNFAIP8	585	No	-
LHFPL2	633	No	-
SNN	725	No	-
ARID5B	821	No	-
PIK3CD	855	No	-
FAIM3	1021	No	-
DDIT4	1075	No	-
CCL22	1087	No	-
NCF2	1098	No	-
IRF4	1103	No	-
IER3	1179	No	-
GADD45B	1197	No	-
HSP90B1	1367	Yes	hsa-mir-181a/hsa-mir-181c
RXRA	1373	Yes	hsa-mir-25*
ELL2	1388	Yes	hsa-mir-141/hsa-mir-200c/hsa-mir-193a-5p/hsa-mir-193b*
ICOSLG	1389	Yes	hsa-mir-193b*
PLEK	1390	Yes	hsa-mir-181a/hsa-mir-181c
JUNB	1502	Yes	hsa-mir-193b*
NFKB2	1513	Yes	hsa-mir-193b*
TRAF1	1519	Yes	hsa-mir-193b*
PHACTR1	1567	Yes	hsa-mir-183
SH2B3	1585	Yes	hsa-mir-181a/hsa-mir-181c/hsa-mir-193b*
MEF2C	1634	Yes	hsa-mir-183
LRRC32	1725	Yes	hsa-mir-181a/hsa-mir-181c/hsa-mir-181a-2*
TNF	1737	Yes	hsa-mir-181a/hsa-mir-181c/hsa-mir-193a-5p

**PURINE METABOLISM**

<b>GENE</b>	<b>RANK IN GENE LIST</b>	<b>CORE ENRICHMENT</b>	<b>INVERSELY CORRELATED miRs WITH ENRICHED GENES</b>
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POLR2H	246	No	-
PAPSS1	479	No	-
ADCY9	495	No	-
POLR2E	670	No	-
PDE7B	776	No	-
AMPD3	806	No	-
POLA1	890	No	-
ADCY7	909	No	-
PDE4A	1000	No	-
POLR3G	1380	No	-
PDE4D	1559	Yes	hsa-mir-183
AK2	1587	Yes	hsa-mir-200c
NME1	1609	Yes	hsa-mir-141
NME4	1636	Yes	hsa-mir-193a-5p
AMPD2	1719	Yes	hsa-mir-141/hsa-mir-193b*/hsa-mir-96
ENTPD1	1738	Yes	hsa-mir-200c/hsa-mir-183*/hsa-mir-193b*/hsa-mir-96
PDE8A	1746	Yes	hsa-mir-200c

**Supplementary Table 8a. MAGIA output for inverse Spearman correlation between miR-708 and miR-455-5p/3p and mRNA expression values in 16 leukemic MCL**

Gene name	miR	Spearman Rho	Top 75%	Top 30%	Gene name	miR	Spearman Rho	Top 75%	Top 30%
AKT2	hsa-mir-708	-0.6971	yes	yes	KIF1B	hsa-mir-455-5p	-0.2088	yes	no
SLC22A18	hsa-mir-708	-0.6412	yes	yes	UBE2K	hsa-mir-455-5p	-0.2088	yes	no
PTPN2	hsa-mir-708	-0.6265	yes	yes	NINJ1	hsa-mir-708	-0.2059	yes	no
SH2D1A	hsa-mir-708	-0.6176	yes	yes	ARMCX3	hsa-mir-455-5p	-0.2000	yes	no
NSUN4	hsa-mir-455-5p	-0.6088	yes	yes	UCP2	hsa-mir-708	-0.2000	yes	no
RNASE2	hsa-mir-708	-0.5618	yes	yes	CD86	hsa-mir-708	-0.2000	yes	no
SLC25A23	hsa-mir-708	-0.5324	yes	yes	TRIM66	hsa-mir-708	-0.1912	yes	no
EZH1	hsa-mir-708	-0.5235	yes	yes	ETF1	hsa-mir-708	-0.1853	yes	no
APLN	hsa-mir-708	-0.5029	yes	yes	ERLIN2	hsa-mir-708	-0.1735	yes	no
ST7	hsa-mir-708	-0.4912	yes	yes	TMEM99	hsa-mir-708	-0.1735	yes	no
PRKCQ	hsa-mir-708	-0.4853	yes	yes	DTNBP1	hsa-mir-708	-0.1735	yes	no
RAP1GAP2	hsa-mir-708	-0.4765	yes	yes	KDSR	hsa-mir-455-5p	-0.1706	yes	no
SERPINB9	hsa-mir-708	-0.4706	yes	yes	MAFF	hsa-mir-708	-0.1676	yes	no
WDFY1	hsa-mir-708	-0.4706	yes	yes	C1orf93	hsa-mir-708	-0.1618	yes	no
TCTN1	hsa-mir-708	-0.4706	yes	yes	GYS1	hsa-mir-708	-0.1618	yes	no
CD19	hsa-mir-708	-0.4706	yes	yes	ARL17A	hsa-mir-708	-0.1588	yes	no
SYNJ2BP	hsa-mir-708	-0.4647	yes	yes	COPG2	hsa-mir-708	-0.1559	yes	no
TTC9	hsa-mir-708	-0.4618	yes	yes	TTC31	hsa-mir-708	-0.1529	yes	no
MARCH9	hsa-mir-708	-0.4618	yes	yes	UBE2L6	hsa-mir-708	-0.1529	yes	no
SPON1	hsa-mir-708	-0.4588	yes	yes	MYLIP	hsa-mir-455-5p	-0.1500	yes	no
MLL2	hsa-mir-455-5p	-0.4588	yes	yes	CD47	hsa-mir-455-5p	-0.1471	yes	no
SASH3	hsa-mir-708	-0.4529	yes	yes	TBRG1	hsa-mir-455-5p	-0.1412	yes	no
SP2	hsa-mir-708	-0.4529	yes	yes	SF3A1	hsa-mir-708	-0.1382	yes	no
CREB3L2	hsa-mir-708	-0.4500	yes	yes	C2orf24	hsa-mir-708	-0.1382	yes	no
SFRS6	hsa-mir-708	-0.4471	yes	yes	B3GNT7	hsa-mir-708	-0.1382	yes	no
TGOLN2	hsa-mir-708	-0.4412	yes	yes	PPARD	hsa-mir-708	-0.1353	yes	no
ATF7	hsa-mir-708	-0.4412	yes	yes	PAX5	hsa-mir-708	-0.1294	yes	no
IFT57	hsa-mir-708	-0.4235	yes	yes	LOC283104	hsa-mir-708	-0.1265	yes	no

MYL12A	hsa-mir-708	-0.4118	yes	yes	RBM4	hsa-mir-455-3p	-0.1206	yes	no
GPM6A	hsa-mir-708	-0.4118	yes	yes	DLST	hsa-mir-455-5p	-0.1147	yes	no
RNASEL	hsa-mir-708	-0.4059	yes	yes	FLJ39639	hsa-mir-708	-0.1147	yes	no
RNLS	hsa-mir-708	-0.4029	yes	yes	PRMT2	hsa-mir-455-5p	-0.1118	yes	no
PTPN7	hsa-mir-708	-0.4000	yes	yes	RAB18	hsa-mir-455-5p	-0.1088	yes	no
KDM5C	hsa-mir-708	-0.4000	yes	yes	PPIB	hsa-mir-455-3p	-0.1088	yes	no
MPEG1	hsa-mir-708	-0.3971	yes	yes	FAM70A	hsa-mir-708	-0.1029	yes	no
SETDB1	hsa-mir-708	-0.3853	yes	yes	ARHGEF3	hsa-mir-455-5p	-0.1000	yes	no
TMEM19	hsa-mir-708	-0.3824	yes	yes	GNAI2	hsa-mir-708	-0.0941	no	no
HEMK1	hsa-mir-708	-0.3794	yes	yes	MAP1LC3B	hsa-mir-708	-0.0941	no	no
FRMD5	hsa-mir-455-5p	-0.3765	yes	yes	GABARAP	hsa-mir-455-5p	-0.0912	no	no
SLAMF6	hsa-mir-708	-0.3735	yes	yes	C1orf55	hsa-mir-455-3p	-0.0882	no	no
NFKBID	hsa-mir-455-3p	-0.3676	yes	yes	ZNFX1	hsa-mir-708	-0.0853	no	no
SPARC	hsa-mir-708	-0.3618	yes	yes	STK24	hsa-mir-708	-0.0853	no	no
NRIP1	hsa-mir-455-5p	-0.3618	yes	yes	IER3	hsa-mir-708	-0.0853	no	no
CPEB4	hsa-mir-455-5p	-0.3529	yes	no	LRP2BP	hsa-mir-708	-0.0839	no	no
KDM6A	hsa-mir-455-5p	-0.3500	yes	no	PHKB	hsa-mir-455-3p	-0.0824	no	no
GON4L	hsa-mir-708	-0.3471	yes	no	PARP9	hsa-mir-455-5p	-0.0794	no	no
VPS13B	hsa-mir-708	-0.3294	yes	no	TRIM14	hsa-mir-455-5p	-0.0735	no	no
CDADC1	hsa-mir-708	-0.3294	yes	no	FOXN3	hsa-mir-708	-0.0647	no	no
LCP1	hsa-mir-708	-0.3235	yes	no	JMJD6	hsa-mir-708	-0.0647	no	no
PTP4A2	hsa-mir-455-5p	-0.3176	yes	no	MNT	hsa-mir-708	-0.0647	no	no
SORD	hsa-mir-708	-0.3147	yes	no	ZNF33B	hsa-mir-455-5p	-0.0647	no	no
PLEKHA7	hsa-mir-708	-0.3118	yes	no	C1orf144	hsa-mir-708	-0.0618	no	no
THTPA	hsa-mir-708	-0.3118	yes	no	AAK1	hsa-mir-708	-0.0588	no	no
RAB43	hsa-mir-708	-0.3088	yes	no	CDK13	hsa-mir-455-5p	-0.0529	no	no
ADD3	hsa-mir-455-5p	-0.3000	yes	no	NUDT16	hsa-mir-708	-0.0500	no	no
PLCXD1	hsa-mir-708	-0.2971	yes	no	PPM1K	hsa-mir-708	-0.0500	no	no
VAMP2	hsa-mir-708	-0.2912	yes	no	SDHB	hsa-mir-708	-0.0500	no	no
SORBS3	hsa-mir-455-3p	-0.2882	yes	no	MTMR3	hsa-mir-708	-0.0471	no	no
CDC42SE1	hsa-mir-708	-0.2824	yes	no	WNK1	hsa-mir-708	-0.0353	no	no
SMARCC2	hsa-mir-708	-0.2676	yes	no	TFAM	hsa-mir-455-3p	-0.0353	no	no
GTPBP1	hsa-mir-455-3p	-0.2647	yes	no	MAP1A	hsa-mir-708	-0.0324	no	no
BTN3A3	hsa-mir-708	-0.2618	yes	no	TOMM22	hsa-mir-455-5p	-0.0294	no	no
CDK14	hsa-mir-455-5p	-0.2529	yes	no	PTBP2	hsa-mir-455-5p	-0.0294	no	no
ARHGEF12	hsa-mir-455-5p	-0.2500	yes	no	C15orf29	hsa-mir-455-3p	-0.0294	no	no
CHRAC1	hsa-mir-708	-0.2500	yes	no	NMT2	hsa-mir-455-5p	-0.0294	no	no

RASGRP1	hsa-mir-708	-0.2382	yes	no	ETS1	hsa-mir-455-5p	-0.0265	no	no
XKR6	hsa-mir-455-5p	-0.2353	yes	no	SFRS7	hsa-mir-455-5p	-0.0235	no	no
KIAA0355	hsa-mir-708	-0.2294	yes	no	HNRNPC	hsa-mir-708	-0.0206	no	no
LOC644794	hsa-mir-708	-0.2265	yes	no	DLGAP4	hsa-mir-455-5p	-0.0176	no	no
R3HDM2	hsa-mir-455-5p	-0.2206	yes	no	BACH2	hsa-mir-708	-0.0147	no	no
GNL1	hsa-mir-455-3p	-0.2176	yes	no	TNS3	hsa-mir-708	-0.0118	no	no
C12orf11	hsa-mir-455-5p	-0.2176	yes	no	REEP5	hsa-mir-708	-0.0118	no	no
SH3BGRL2	hsa-mir-708	-0.2176	yes	no	MYCBP2	hsa-mir-455-3p	-0.0059	no	no
CRCP	hsa-mir-455-5p	-0.2147	yes	no	KRAS	hsa-mir-708	-0.0059	no	no
PATL1	hsa-mir-708	-0.2088	yes	no	WDYHV1	hsa-mir-708	-0.0029	no	no



**Supplementary Table 8b. Enrichment analysis (g:Profiler) significant results from inversely correlated predicted targets for miR-708 and miR-455-5p/3p (top 75% subset)**

<i>P</i> -value	T	Q	Q&T	Term ID	Name	Genes
9.34E-03	83	104	6	<a href="#">GO:0008213</a>	protein alkylation	see below for common target genes
2.13E-02	201	104	8	<a href="#">GO:0006730</a>	one-carbon metabolic process	see below for common target genes
1.91E-02	142	104	7	<a href="#">GO:0032259</a>	methylation	see below for common target genes
1.07E-02	130	104	7	<a href="#">GO:0043414</a>	macromolecule methylation	see below for common target genes
9.34E-03	83	104	6	<a href="#">GO:0006479</a>	protein methylation	see below for common target genes
3.45E-02	62	104	5	<a href="#">GO:0008170</a>	N-methyltransferase activity	see below for common target genes
4.03E-02	64	104	5	<a href="#">GO:0008276</a>	protein methyltransferase activity	see below for common target genes

**Common target genes found in the significant GO terms and ranked by inverse correlation with miR-708/miR-455-5p/3p expression levels**

	miR	Spearman Rho
* EZH1 enhancer of zeste homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:3526]	hsa-mir-708	-0.52
* MLL2 myeloid/lymphoid or mixed-lineage leukemia 2 [Source:HGNC Symbol;Acc:7133]	hsa-mir-455-5p	-0.46
KDM5C lysine (K)-specific demethylase 5C [Source:HGNC Symbol;Acc:11114]	hsa-mir-708	-0.40
* SETDB1 SET domain, bifurcated 1 [Source:HGNC Symbol;Acc:10761]	hsa-mir-708	-0.39
* HEMK1 HemK methyltransferase family member 1 [Source:HGNC Symbol;Acc:24923]	hsa-mir-708	-0.38
KDM6A lysine (K)-specific demethylase 6A [Source:HGNC Symbol;Acc:12637]	hsa-mir-455-5p	-0.35
PRMT2 protein arginine methyltransferase 2 [Source:HGNC Symbol;Acc:5186]	hsa-mir-455-5p	-0.11
ETF1 eukaryotic translation termination factor 1 [Source:HGNC Symbol;Acc:3477]	hsa-mir-708	-0.19
PAX5 paired box 5 [Source:HGNC Symbol;Acc:8619]	hsa-mir-708	-0.13

\* Also significant in analysis of top 30% inversely correlated target subset ( $P=2.19e-02$  for GO:0008170 and  $P=2.49e-02$  for GO:0008276)

Abbreviations: T: Number of genes in term; Q: Number of genes in query; Q&T: Number of genes in query matching with the corresponding term

**Supplementary Table 9. Proliferation signature calculations in the 16 leukemic MCL with gene expression data**

**Original expression data**

Probesets	MCL2	MCL3	MCL4	MCL5	MCL8	MCL15	MCL16	MCL17	MCL18	MCL22	MCL23	MCL24	MCL25	MCL26	MCL27	MCL28	Mean	SD
1555591_at	2.71	2.53	2.47	2.72	2.56	2.57	2.23	2.48	2.43	3.09	2.82	2.52	2.38	2.48	2.30	2.53	2.55	0.21
1555758_a_at	3.23	5.43	6.68	4.49	3.21	4.26	3.53	3.48	5.21	4.81	4.65	3.44	4.06	4.90	3.14	4.50	4.31	0.98
1565446_at	2.22	2.18	2.23	2.35	2.14	2.08	2.16	2.15	2.46	2.42	2.12	2.46	2.17	2.14	2.07	2.28	2.23	0.13
1565668_at	2.56	2.46	2.47	2.51	2.37	2.43	2.45	2.73	2.59	2.48	2.41	2.64	2.57	2.43	2.50	2.67	2.52	0.10
200749_at	9.00	9.10	9.67	8.77	9.30	8.85	8.49	8.27	8.81	9.99	9.66	9.07	8.85	9.29	8.86	8.51	9.03	0.46
200750_s_at	10.23	11.66	11.81	10.44	10.18	10.64	10.83	10.19	11.11	11.36	10.78	10.66	11.03	10.55	10.58	10.85	10.81	0.49
201090_x_at	10.86	11.48	12.01	11.56	11.16	10.91	10.90	10.94	11.04	10.73	10.85	13.05	12.15	10.38	11.63	12.63	11.39	0.74
201202_at	7.40	11.25	11.57	10.25	7.87	7.69	7.68	7.93	8.65	11.00	9.74	7.81	8.63	9.31	8.28	8.97	9.00	1.38
201291_s_at	4.69	5.64	4.38	6.17	3.07	3.44	3.06	2.83	3.87	4.86	3.85	4.43	3.65	3.59	7.11	6.80	4.46	1.34
201292_at	2.74	3.23	5.18	5.58	2.70	3.45	2.84	3.10	4.54	3.00	2.71	3.72	3.55	5.36	2.58	3.32	3.60	1.01
202107_s_at	6.85	6.67	7.92	6.70	6.56	7.10	7.03	6.62	6.69	6.83	7.08	6.73	7.16	6.89	9.43	7.49	7.11	0.71
202854_at	7.99	9.66	9.57	8.29	8.27	8.62	8.81	8.50	9.23	9.19	9.18	8.48	9.18	8.83	8.05	8.99	8.80	0.52
202870_s_at	4.02	3.90	4.16	4.12	3.66	3.54	2.93	3.04	4.02	4.08	3.40	3.68	3.52	3.35	4.25	4.93	3.79	0.50
203213_at	2.35	3.46	6.31	6.08	2.65	3.59	2.84	2.67	4.05	3.66	2.95	2.28	2.09	5.34	2.58	3.86	3.55	1.32
203214_x_at	2.97	3.91	3.95	5.26	3.41	2.91	3.05	3.62	3.45	3.34	3.02	3.42	3.86	3.37	5.29	5.87	3.79	0.90
205909_at	6.32	4.99	5.24	5.04	4.38	4.62	4.56	4.10	4.35	4.49	4.58	6.01	5.13	4.59	6.36	6.17	5.06	0.75
207331_at	2.80	2.61	2.85	2.73	2.93	2.94	2.81	2.99	2.85	2.78	2.74	2.61	2.82	2.74	2.71	2.85	2.80	0.11
207828_s_at	5.00	4.85	5.45	5.72	3.88	4.14	4.74	4.65	4.55	4.46	3.81	4.60	5.31	4.83	6.12	6.64	4.92	0.77
208066_s_at	9.33	9.82	9.12	9.70	9.90	9.69	9.01	8.56	9.73	9.54	9.99	10.44	10.14	9.55	8.91	10.89	9.64	0.59
208808_s_at	10.38	11.94	11.64	11.99	11.77	11.03	10.78	10.83	11.58	11.93	12.51	11.02	11.13	11.09	12.47	11.41	11.47	0.61
209172_s_at	2.63	3.22	2.87	3.11	2.24	2.63	2.83	2.72	2.57	2.63	2.89	2.68	2.96	2.94	3.21	2.88	2.81	0.25
209714_s_at	4.32	4.97	4.05	4.72	3.47	2.77	3.36	3.31	4.20	3.45	3.57	5.40	4.90	4.37	4.50	6.33	4.23	0.91
210559_s_at	3.65	4.86	4.69	6.13	3.44	4.15	3.71	3.76	4.85	4.21	3.77	4.61	4.62	4.37	6.82	7.35	4.69	1.15
211058_x_at	11.05	11.70	12.25	11.81	11.59	11.21	11.26	11.26	11.41	11.04	11.19	13.28	12.42	10.85	11.93	12.93	11.70	0.71
211072_x_at	11.06	11.70	12.25	11.83	11.55	11.26	11.29	11.30	11.37	10.99	11.18	13.31	12.45	10.90	12.03	12.93	11.71	0.71

212501_at	8.54	9.35	9.52	9.13	8.51	7.52	7.61	8.48	9.00	8.21	7.19	9.93	9.17	7.35	7.56	10.97	8.63	1.05
212639_x_at	11.17	11.46	12.13	11.73	11.69	11.06	11.20	11.20	11.36	10.99	11.12	13.22	12.37	10.65	11.82	12.87	11.63	0.71
213646_x_at	11.11	11.71	12.23	11.78	11.46	11.14	11.18	11.21	11.35	10.99	11.06	13.26	12.40	10.72	11.85	12.85	11.64	0.72
219502_at	3.15	3.12	3.03	3.27	2.88	3.01	3.03	3.07	3.03	3.10	2.97	2.89	3.03	3.03	3.33	3.07	3.06	0.12
219918_s_at	2.73	3.57	3.66	5.24	2.56	2.82	2.45	2.53	3.06	2.75	2.69	3.07	3.18	2.64	4.80	5.30	3.32	0.96
225655_at	4.10	5.63	5.52	6.44	3.82	3.12	3.32	3.22	3.29	3.64	3.51	3.51	3.05	4.04	7.01	6.63	4.37	1.38
228252_at	3.46	4.32	3.39	4.10	3.39	3.39	3.65	3.49	3.57	3.54	3.10	3.55	4.12	3.27	3.64	3.46	3.59	0.33
231534_at	2.69	2.95	2.94	3.16	2.79	2.60	2.59	2.62	2.55	3.06	2.68	2.46	2.33	2.81	2.63	2.93	2.74	0.23
232238_at	2.84	3.32	2.99	3.21	2.79	3.01	2.95	2.80	3.09	2.74	2.80	3.06	3.01	2.99	3.99	3.51	3.07	0.32
236091_at	3.48	4.14	4.01	4.04	4.43	3.63	4.02	4.01	3.58	4.69	4.46	3.80	3.62	3.57	3.92	3.86	3.95	0.35
237469_at	2.91	2.68	2.76	2.96	2.51	2.80	2.78	2.85	2.80	3.16	2.57	2.52	2.65	2.50	2.84	2.84	2.76	0.18
239002_at	2.95	2.94	3.26	3.38	2.68	2.93	2.65	2.65	3.15	2.99	2.89	2.52	2.94	2.57	3.85	3.22	2.97	0.34
243368_at	2.66	2.69	2.85	2.67	2.71	2.67	2.74	2.74	2.60	2.86	2.58	2.59	2.56	2.70	3.59	2.72	2.75	0.24

#### Normalized expression data

Probesets	MCL2	MCL3	MCL4	MCL5	MCL8	MCL15	MCL16	MCL17	MCL18	MCL22	MCL23	MCL24	MCL25	MCL26	MCL27	MCL28
1555591_at	0.76	-0.08	-0.41	0.82	0.03	0.11	-1.54	-0.36	-0.60	2.59	1.30	-0.14	-0.84	-0.33	-1.21	-0.11
1555758_a_at	-1.11	1.14	2.42	0.18	-1.14	-0.05	-0.81	-0.85	0.91	0.51	0.34	-0.89	-0.26	0.60	-1.20	0.19
1565446_at	-0.05	-0.36	0.02	0.98	-0.69	-1.10	-0.50	-0.63	1.81	1.48	-0.79	1.78	-0.43	-0.69	-1.22	0.40
1565668_at	0.37	-0.51	-0.49	-0.10	-1.40	-0.84	-0.61	2.12	0.72	-0.38	-1.09	1.24	0.49	-0.88	-0.20	1.53
200749_at	-0.06	0.14	1.38	-0.57	0.57	-0.38	-1.17	-1.64	-0.48	2.08	1.35	0.07	-0.38	0.57	-0.36	-1.11
200750_s_at	-1.18	1.74	2.06	-0.75	-1.27	-0.34	0.05	-1.25	0.63	1.13	-0.06	-0.30	0.45	-0.52	-0.47	0.09
201090_x_at	-0.72	0.12	0.84	0.22	-0.32	-0.65	-0.67	-0.61	-0.47	-0.89	-0.74	2.24	1.02	-1.36	0.31	1.67
201202_at	-1.16	1.63	1.86	0.91	-0.82	-0.95	-0.96	-0.78	-0.26	1.45	0.53	-0.86	-0.27	0.22	-0.52	-0.02
201291_s_at	0.17	0.88	-0.06	1.27	-1.05	-0.77	-1.05	-1.23	-0.44	0.30	-0.46	-0.03	-0.61	-0.66	1.98	1.75
201292_at	-0.85	-0.37	1.57	1.97	-0.90	-0.15	-0.75	-0.49	0.93	-0.60	-0.88	0.12	-0.05	1.75	-1.01	-0.27
202107_s_at	-0.36	-0.62	1.14	-0.57	-0.77	-0.01	-0.11	-0.69	-0.59	-0.39	-0.04	-0.53	0.07	-0.31	3.26	0.53
202854_at	-1.57	1.66	1.50	-1.00	-1.04	-0.35	0.02	-0.59	0.83	0.75	0.73	-0.62	0.74	0.05	-1.45	0.37
202870_s_at	0.46	0.23	0.75	0.65	-0.25	-0.49	-1.72	-1.49	0.47	0.58	-0.77	-0.21	-0.53	-0.87	0.92	2.28
203213_at	-0.91	-0.06	2.09	1.92	-0.68	0.03	-0.54	-0.66	0.38	0.09	-0.45	-0.96	-1.10	1.36	-0.74	0.23
203214_x_at	-0.91	0.12	0.17	1.63	-0.42	-0.98	-0.82	-0.19	-0.38	-0.51	-0.86	-0.41	0.07	-0.47	1.66	2.30
205909_at	1.67	-0.09	0.25	-0.02	-0.89	-0.58	-0.66	-1.27	-0.94	-0.75	-0.64	1.26	0.10	-0.62	1.72	1.47

207331_at	0.02	-1.74	0.49	-0.62	1.25	1.35	0.08	1.79	0.48	-0.20	-0.51	-1.72	0.18	-0.52	-0.83	0.53
207828_s_at	0.10	-0.09	0.68	1.03	-1.35	-1.01	-0.24	-0.35	-0.48	-0.60	-1.44	-0.41	0.50	-0.12	1.55	2.22
208066_s_at	-0.53	0.30	-0.89	0.09	0.44	0.07	-1.08	-1.86	0.15	-0.18	0.58	1.36	0.84	-0.15	-1.25	2.12
208808_s_at	-1.77	0.77	0.28	0.85	0.49	-0.72	-1.13	-1.04	0.19	0.75	1.70	-0.74	-0.55	-0.62	1.63	-0.09
209172_s_at	-0.71	1.59	0.22	1.16	-2.26	-0.70	0.08	-0.36	-0.97	-0.70	0.29	-0.51	0.58	0.49	1.55	0.26
209714_s_at	0.10	0.81	-0.20	0.54	-0.84	-1.60	-0.95	-1.01	-0.03	-0.85	-0.72	1.28	0.73	0.15	0.29	2.30
210559_s_at	-0.90	0.15	0.00	1.26	-1.09	-0.47	-0.86	-0.81	0.14	-0.42	-0.80	-0.06	-0.06	-0.28	1.86	2.32
211058_x_at	-0.93	0.00	0.78	0.16	-0.15	-0.69	-0.63	-0.62	-0.41	-0.93	-0.72	2.24	1.03	-1.21	0.33	1.75
211072_x_at	-0.92	-0.01	0.75	0.17	-0.22	-0.64	-0.59	-0.58	-0.48	-1.02	-0.75	2.25	1.03	-1.15	0.44	1.72
212501_at	-0.08	0.69	0.85	0.48	-0.11	-1.05	-0.97	-0.14	0.36	-0.40	-1.37	1.24	0.52	-1.22	-1.02	2.23
212639_x_at	-0.65	-0.23	0.70	0.15	0.09	-0.80	-0.61	-0.60	-0.38	-0.89	-0.71	2.24	1.05	-1.38	0.28	1.75
213646_x_at	-0.75	0.09	0.82	0.18	-0.26	-0.70	-0.64	-0.60	-0.41	-0.91	-0.81	2.25	1.05	-1.28	0.28	1.69
219502_at	0.71	0.50	-0.24	1.79	-1.55	-0.45	-0.27	0.08	-0.32	0.32	-0.76	-1.51	-0.30	-0.31	2.24	0.07
219918_s_at	-0.61	0.27	0.36	2.00	-0.79	-0.52	-0.90	-0.82	-0.27	-0.59	-0.65	-0.26	-0.14	-0.70	1.55	2.06
225655_at	-0.19	0.92	0.83	1.50	-0.39	-0.90	-0.76	-0.83	-0.78	-0.53	-0.62	-0.62	-0.95	-0.23	1.91	1.64
228252_at	-0.40	2.24	-0.61	1.57	-0.61	-0.62	0.18	-0.31	-0.05	-0.15	-1.52	-0.14	1.61	-0.97	0.16	-0.39
231534_at	-0.22	0.96	0.92	1.87	0.25	-0.62	-0.65	-0.52	-0.84	1.43	-0.26	-1.21	-1.80	0.32	-0.48	0.85
232238_at	-0.71	0.79	-0.24	0.45	-0.86	-0.17	-0.38	-0.83	0.05	-1.04	-0.85	-0.04	-0.17	-0.24	2.87	1.37
236091_at	-1.35	0.52	0.16	0.26	1.37	-0.92	0.19	0.17	-1.05	2.09	1.46	-0.45	-0.96	-1.10	-0.11	-0.28
237469_at	0.85	-0.42	-0.01	1.12	-1.37	0.21	0.11	0.51	0.22	2.23	-1.05	-1.32	-0.61	-1.40	0.47	0.47
239002_at	-0.05	-0.10	0.85	1.18	-0.85	-0.13	-0.93	-0.93	0.51	0.05	-0.25	-1.32	-0.10	-1.17	2.55	0.71
243368_at	-0.35	-0.22	0.44	-0.32	-0.14	-0.30	-0.02	-0.03	-0.63	0.46	-0.70	-0.64	-0.77	-0.18	3.50	-0.11
<b>Mean proliferation signature</b>	<b>-0.39</b>	<b>0.35</b>	<b>0.58</b>	<b>0.64</b>	<b>-0.53</b>	<b>-0.50</b>	<b>-0.60</b>	<b>-0.53</b>	<b>-0.06</b>	<b>0.14</b>	<b>-0.34</b>	<b>0.10</b>	<b>0.03</b>	<b>-0.41</b>	<b>0.56</b>	<b>0.96</b>

**Supplementary Table 10. Correlation analysis of miR expression and MCL proliferation signature**

<b>Significant miRs</b>	<b>Spearman Rho</b>	<b>Spearman P-val</b>	<b>Cell cycle related targets</b>	<b>References about targeting</b>
hsa-miR-369-3p	-0.788	0	MYC	Bone. 2012 Jan;50(1):171-81 J Clin Endocrinol Metab. 2012 Jul;97(7):E1128-38
hsa-miR-432	-0.679	0.005	E2F1	FEBS Lett. 2010 Sep 24;584(18):4048- 52
hsa-miR-221	-0.659	0.007		Med Oncol. 2012 Jun;29(2):856-63
hsa-miR-542-3p	-0.64	0.008	survivin	
hsa-miR-107	-0.632	0.01	CDK6	
hsa-miR-539	-0.621	0.012		
hsa-miR-487b	-0.618	0.013		
hsa-miR-200a	-0.612	0.014		
hsa-miR-200b*	-0.6	0.016		
hsa-miR-641	-0.597	0.015		
hsa-miR-323-3p	-0.594	0.017		
hsa-miR-379	-0.591	0.016		
hsa-miR-133a	-0.588	0.019	EGFR	Oncol Rep. 2012 Jun;27(6):1967-75
hsa-miR-452	-0.582	0.02		
hsa-miR-382	-0.576	0.02		
hsa-miR-376a	-0.576	0.022	PIK3R1	FEBS Lett. 2012 Jul 30;586(16):2396- 403
hsa-miR-326	-0.576	0.02	E2F1	J Clin Endocrinol Metab. 2012 Jul;97(7):E1128-38
hsa-miR-1	-0.562	0.026		
hsa-miR-889	-0.556	0.025		
hsa-miR-485-3p	-0.556	0.028		
hsa-miR-127-3p	-0.553	0.029		

hsa-miR-224	-0.553	0.029		
hsa-miR-606	-0.538	0.034		
hsa-miR-139-5p	-0.538	0.034		
hsa-miR-450b-5p	-0.536	0.032		
hsa-miR-199a-5p	-0.526	0.038		
hsa-miR-429	-0.524	0.04		
hsa-miR-146a*	-0.522	0.038		
hsa-miR-410	-0.515	0.044		
hsa-miR-134	-0.504	0.047		
hsa-miR-145	-0.503	0.049		
hsa-miR-296-5p	0.506	0.048	CDX1	Oncogene. 2013 Jan 28
hsa-miR-885-5p	0.512	0.045	CDK2,MCM5	Cell Death Differ. 2011 Jun;18(6):974-84
hsa-miR-648	0.516	0.041		
hsa-miR-330-5p	0.557	0.025	SH3GL2	PLoS One. 2012;7(9):e46010
hsa-miR-296-3p	0.752	0.001		

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