

**Table S3. The microRNAs whose expression levels are significantly correlated with CD8+ T cell enrichment levels, immune cytolytic activity, and PD-L1 expression levels in TCGA-GC cohort.**

<b>CD8+ T cell</b>			
miRNA	<i>p</i> -value	PCC	FDR
hsa-miR-3200-3p	5.77E-12	-0.349	8.77E-10
hsa-miR-552-5p	1.60E-10	-0.325	2.09E-08
hsa-miR-552-3p	1.80E-10	-0.325	2.27E-08
hsa-miR-30d-5p	3.74E-10	-0.319	4.53E-08
hsa-miR-429	5.62E-10	-0.316	6.55E-08
hsa-miR-196b-5p	6.32E-10	-0.315	7.12E-08
hsa-miR-4728-3p	7.57E-10	-0.314	8.38E-08
hsa-miR-92a-3p	1.42E-09	-0.309	1.55E-07
hsa-let-7i-3p	3.14E-09	0.303	3.36E-07
hsa-miR-146b-5p	4.57E-10	0.318	5.42E-08
hsa-miR-29c-3p	8.59E-11	0.330	1.17E-08
hsa-miR-100-5p	2.15E-11	0.340	3.12E-09
hsa-miR-155-3p	1.86E-13	0.371	2.96E-11
hsa-miR-511-5p	9.46E-14	0.375	1.55E-11
hsa-miR-101-3p	1.44E-14	0.387	2.61E-12
hsa-let-7i-5p	1.19E-14	0.388	2.21E-12
hsa-miR-146b-3p	6.87E-15	0.391	1.32E-12
hsa-miR-4772-3p	4.62E-16	0.406	1.04E-13
hsa-miR-5586-5p	3.05E-18	0.433	8.67E-16
hsa-miR-142-5p	1.52E-20	0.459	5.23E-18
hsa-miR-142-3p	2.31E-21	0.467	8.88E-19
hsa-miR-342-3p	2.32E-22	0.478	9.46E-20
hsa-miR-7702	6.51E-25	0.502	3.04E-22
hsa-miR-342-5p	2.15E-25	0.507	1.08E-22
hsa-miR-150-3p	2.39E-28	0.533	1.56E-25
hsa-miR-155-5p	1.27E-32	0.567	2.77E-29
hsa-miR-150-5p	1.38E-37	0.602	4.50E-34

<b>Immune cytolytic activity</b>			
miRNA	<i>p</i> -value	PCC	FDR
hsa-miR-5571-3p	1.79E-10	0.325	2.29E-08
hsa-miR-5571-5p	3.33E-11	0.337	4.63E-09
hsa-let-7i-3p	3.87E-13	0.366	6.02E-11
hsa-miR-4772-5p	3.85E-14	0.381	6.62E-12
hsa-miR-5586-5p	2.37E-15	0.397	5.01E-13
hsa-miR-511-5p	1.80E-15	0.399	3.92E-13
hsa-let-7i-5p	1.21E-16	0.414	2.82E-14
hsa-miR-155-3p	3.36E-17	0.420	8.13E-15
hsa-miR-146b-5p	2.84E-17	0.421	7.14E-15
hsa-miR-146b-3p	4.77E-21	0.464	1.73E-18
hsa-miR-342-3p	9.41E-26	0.510	5.13E-23
hsa-miR-150-3p	5.79E-28	0.529	3.44E-25
hsa-miR-142-5p	2.39E-28	0.533	1.74E-25
hsa-miR-4772-3p	4.61E-29	0.539	3.77E-26
hsa-miR-142-3p	3.93E-29	0.539	3.67E-26

hsa-miR-7702	7.95E-30	0.545	8.66E-27
hsa-miR-342-5p	4.39E-30	0.547	5.74E-27
hsa-miR-150-5p	1.40E-30	0.551	2.29E-27
hsa-miR-155-5p	2.59E-43	0.637	1.69E-39

### PD-L1 expression

miRNA	<i>p</i> -value	PCC	FDR
hsa-let-7i-3p	1.37E-10	0.326	1.83E-08
hsa-let-7i-5p	2.49E-11	0.339	3.54E-09
hsa-miR-142-3p	3.85E-19	0.443	1.20E-16
hsa-miR-142-5p	1.22E-17	0.426	3.32E-15
hsa-miR-146b-3p	2.16E-17	0.423	5.65E-15
hsa-miR-146b-5p	6.00E-14	0.378	1.01E-11
hsa-miR-150-3p	3.11E-10	0.320	3.83E-08
hsa-miR-155-3p	2.55E-15	0.397	5.04E-13
hsa-miR-155-5p	2.67E-23	0.487	1.16E-20
hsa-miR-342-3p	5.70E-10	0.316	6.54E-08
hsa-miR-342-5p	2.52E-15	0.397	5.14E-13
hsa-miR-4772-3p	4.81E-20	0.453	1.57E-17
hsa-miR-4772-5p	1.90E-11	0.341	2.82E-09
hsa-miR-511-5p	2.20E-14	0.384	3.89E-12
hsa-miR-7702	1.67E-18	0.436	4.96E-16