

Table S4. The long non-coding RNAs (lncRNAs) whose expression levels are significantly correlated with CD8+ T cell enrichment levels, immune cytolytic activity, and PD-L1 expression levels in TCGA-GC cohort.

CD8+ T cell			
lncRNA	<i>p</i> -value	PCC	FDR
OTUD6B-AS1	2.21E-12	-0.401	6.12E-10
AC108860.2	1.52E-10	-0.368	2.73E-08
TDRKH-AS1	2.09E-10	-0.366	3.63E-08
AC097639.1	1.56E-09	-0.349	2.21E-07
RNF139-AS1	3.13E-09	-0.342	4.06E-07
DNAJC3-DT	1.01E-08	-0.332	1.15E-06
AC007128.1	1.87E-08	-0.326	1.96E-06
AC023302.1	3.10E-08	-0.321	3.01E-06
AL035045.1	3.18E-08	-0.321	3.07E-06
CASC9	4.18E-08	-0.318	3.85E-06
RAD21-AS1	4.23E-08	-0.318	3.89E-06
AL022322.1	4.48E-08	-0.318	4.07E-06
AL139287.1	4.68E-08	-0.317	4.20E-06
LINC00449	5.40E-08	-0.316	4.74E-06
AC124067.4	6.78E-08	-0.314	5.69E-06
AL117382.1	1.09E-07	-0.309	8.32E-06
AL136162.1	1.60E-07	-0.305	1.17E-05
AC024361.1	1.83E-07	-0.304	1.32E-05
AC007639.1	2.44E-07	-0.301	1.65E-05
LINC00528	2.25E-07	0.301	1.54E-05
ANKRD44-IT1	2.12E-07	0.302	1.48E-05
AC099568.1	2.07E-07	0.302	1.45E-05
AC060766.4	2.07E-07	0.302	1.45E-05
AL158832.1	2.06E-07	0.302	1.45E-05
AP001056.1	1.98E-07	0.303	1.40E-05
AC004865.2	1.84E-07	0.303	1.31E-05
AC012414.4	1.73E-07	0.304	1.26E-05
AC104024.1	1.44E-07	0.306	1.07E-05
LINC00900	1.29E-07	0.307	9.61E-06
AC092652.1	1.25E-07	0.307	9.42E-06
AC078788.1	1.07E-07	0.309	8.24E-06
AC007991.2	1.06E-07	0.309	8.20E-06
AL357054.4	8.42E-08	0.311	6.72E-06
AL512306.3	8.36E-08	0.311	6.71E-06
AC060766.7	7.87E-08	0.312	6.42E-06
AC010226.1	7.38E-08	0.313	6.07E-06
AL136320.1	6.64E-08	0.314	5.60E-06
AC116914.2	6.52E-08	0.314	5.53E-06
LINC02100	4.81E-08	0.317	4.29E-06
LINC02390	4.31E-08	0.318	3.93E-06
AL512306.2	4.04E-08	0.319	3.75E-06
AC044781.1	4.00E-08	0.319	3.72E-06
AC008808.2	3.23E-08	0.321	3.10E-06
L3MBTL4-AS1	2.56E-08	0.323	2.57E-06

AC011377.1	2.41E-08	0.324	2.43E-06
AC138207.1	2.40E-08	0.324	2.43E-06
AL109741.1	1.88E-08	0.326	1.97E-06
LINC01215	1.80E-08	0.326	1.90E-06
AL606834.2	1.68E-08	0.327	1.80E-06
AC010468.2	9.98E-09	0.332	1.14E-06
AC007278.1	9.10E-09	0.333	1.06E-06
AC007384.1	8.62E-09	0.333	1.01E-06
AC090948.1	8.09E-09	0.334	9.50E-07
AL022067.1	7.26E-09	0.335	8.60E-07
AC079584.2	4.41E-09	0.339	5.43E-07
AC090136.3	4.00E-09	0.340	5.01E-07
AC114760.2	3.66E-09	0.341	4.66E-07
AC022182.2	3.12E-09	0.342	4.07E-07
AC012181.1	2.46E-09	0.345	3.30E-07
CARD8-AS1	2.28E-09	0.345	3.08E-07
Z84723.1	2.24E-09	0.345	3.04E-07
AL157394.1	2.01E-09	0.346	2.75E-07
AC091814.1	1.36E-09	0.350	1.98E-07
AC104078.1	1.15E-09	0.351	1.68E-07
AC023825.2	9.51E-10	0.353	1.41E-07
AL137779.1	8.43E-10	0.354	1.26E-07
AL133371.2	5.64E-10	0.357	8.87E-08
AL157402.2	3.98E-10	0.360	6.44E-08
AL355916.2	3.91E-10	0.360	6.35E-08
AC116366.1	2.84E-10	0.363	4.74E-08
AC012645.3	2.71E-10	0.363	4.54E-08
AP005019.1	2.54E-10	0.364	4.29E-08
AC013437.1	1.79E-10	0.367	3.16E-08
MACORIS	1.11E-10	0.371	2.07E-08
AL590385.2	9.76E-11	0.372	1.84E-08
LINC00582	8.38E-11	0.373	1.61E-08
AC106882.1	8.30E-11	0.373	1.60E-08
AL023653.1	5.71E-11	0.376	1.12E-08
AC012181.2	5.48E-11	0.376	1.08E-08
AP4B1-AS1	4.55E-11	0.378	9.15E-09
AC011899.3	4.21E-11	0.378	8.64E-09
AC096734.1	3.82E-11	0.379	7.98E-09
AC243960.3	3.38E-11	0.380	7.22E-09
AC093010.2	2.49E-11	0.383	5.52E-09
AC010609.1	2.21E-11	0.383	4.96E-09
AC006369.1	1.65E-11	0.386	3.82E-09
AC008957.1	1.25E-11	0.388	2.93E-09
TNK2-AS1	7.24E-12	0.392	1.80E-09
LINC01480	6.01E-12	0.393	1.53E-09
SENCR	3.86E-12	0.397	1.01E-09
AC008972.2	1.02E-12	0.406	2.91E-10
AOAH-IT1	9.14E-13	0.407	2.64E-10
AC246787.2	2.57E-13	0.416	7.85E-11
AC026369.3	2.24E-13	0.417	6.91E-11
LINC01678	8.01E-14	0.424	2.64E-11
LINC01857	6.90E-14	0.425	2.29E-11
LINC02325	1.29E-14	0.436	4.61E-12
LINC02285	1.12E-14	0.437	4.03E-12

AL590648.3	7.78E-15	0.439	2.86E-12
OSTN-AS1	6.72E-15	0.440	2.49E-12
AC068789.1	4.52E-15	0.443	1.71E-12
AC009133.3	3.02E-15	0.445	1.16E-12
IL21-AS1	2.42E-15	0.447	9.51E-13
AC079015.1	9.65E-17	0.466	4.44E-14
BFSP2-AS1	5.46E-17	0.470	2.57E-14
AC013264.1	5.17E-17	0.470	2.47E-14
AC138207.5	5.66E-18	0.483	2.92E-15
Z99774.1	3.17E-18	0.486	1.75E-15
AC083949.1	1.09E-18	0.492	6.40E-16
LINC02195	6.56E-20	0.506	4.64E-17
Z82188.2	9.68E-22	0.527	9.01E-19
AL591468.1	4.44E-22	0.531	4.34E-19
LINC01281	1.35E-22	0.537	1.47E-19
AC133644.2	3.76E-23	0.543	4.49E-20
AL162414.1	1.18E-23	0.548	1.61E-20
AC021188.1	1.49E-24	0.557	2.19E-21
AF127936.1	1.07E-24	0.559	1.64E-21
LINC02446	5.38E-26	0.571	8.93E-23
TRBV11-2	3.47E-26	0.573	6.03E-23
LINC01684	1.58E-26	0.576	2.86E-23
LINC00996	5.39E-27	0.581	1.03E-23
AL365361.1	6.74E-28	0.589	1.84E-24
AC015911.3	2.69E-28	0.592	7.89E-25
AC006033.2	8.07E-29	0.597	3.08E-25
LINC01871	5.55E-33	0.631	5.30E-29
AC022706.1	8.49E-34	0.638	1.08E-29

Immune cytolytic activity

lncRNA	<i>p</i> -value	PCC	FDR
AC097639.1	5.25E-12	-0.394	1.35E-09
AL139287.1	8.05E-12	-0.391	1.95E-09
TMCO1-AS1	1.03E-11	-0.389	2.46E-09
LINC02585	2.06E-11	-0.384	4.69E-09
TDRKH-AS1	4.04E-11	-0.379	8.38E-09
OTUD6B-AS1	4.06E-11	-0.379	8.37E-09
AC092910.3	2.15E-10	-0.365	3.72E-08
AL162595.1	2.47E-10	-0.364	4.19E-08
AL360270.1	2.59E-10	-0.364	4.36E-08
AC092171.5	3.75E-10	-0.361	6.11E-08
AC108860.2	4.07E-10	-0.360	6.56E-08
AL353194.1	5.82E-10	-0.357	9.08E-08
AC079145.1	6.70E-10	-0.356	1.02E-07
LINC01703	8.11E-10	-0.354	1.22E-07
AC007128.1	1.02E-09	-0.352	1.50E-07
AC024581.1	1.45E-09	-0.349	2.08E-07
AC021054.1	1.49E-09	-0.349	2.13E-07
AC092115.3	1.62E-09	-0.348	2.28E-07
DNAJC3-DT	1.70E-09	-0.348	2.37E-07
AL445228.2	1.91E-09	-0.347	2.63E-07
AP001271.1	1.95E-09	-0.347	2.68E-07
GEMIN7-AS1	2.67E-09	-0.344	3.54E-07

LINC00884	2.76E-09	-0.343	3.64E-07
AL136162.1	3.29E-09	-0.342	4.24E-07
AL354928.1	3.75E-09	-0.341	4.76E-07
AC084262.1	3.86E-09	-0.341	4.86E-07
AC107375.1	5.98E-09	-0.337	7.23E-07
AC007128.2	7.17E-09	-0.335	8.53E-07
AL031058.1	7.65E-09	-0.334	9.01E-07
AC064836.3	9.10E-09	-0.333	1.06E-06
LINC02097	1.18E-08	-0.330	1.33E-06
AL590729.1	1.22E-08	-0.330	1.36E-06
RNF157-AS1	1.43E-08	-0.328	1.56E-06
BOLA3-AS1	1.65E-08	-0.327	1.77E-06
U52111.1	1.71E-08	-0.327	1.81E-06
AL080317.1	1.80E-08	-0.326	1.90E-06
CASC9	2.57E-08	-0.323	2.56E-06
AC116025.2	2.60E-08	-0.323	2.60E-06
EIF3J-DT	2.64E-08	-0.323	2.62E-06
TIPARP-AS1	2.77E-08	-0.322	2.73E-06
AP003469.2	2.99E-08	-0.322	2.92E-06
AL035045.1	3.24E-08	-0.321	3.10E-06
AC016708.1	3.62E-08	-0.320	3.42E-06
AC013400.1	3.76E-08	-0.319	3.53E-06
AL161729.3	4.44E-08	-0.318	4.03E-06
LINC00857	4.61E-08	-0.317	4.14E-06
GLIS2-AS1	5.28E-08	-0.316	4.66E-06
AC022031.2	5.57E-08	-0.315	4.86E-06
AC092171.4	5.59E-08	-0.315	4.87E-06
AC090192.2	5.75E-08	-0.315	4.98E-06
AC010168.1	5.83E-08	-0.315	5.04E-06
AL445223.1	6.64E-08	-0.314	5.61E-06
ZNF252P-AS1	7.15E-08	-0.313	5.96E-06
SLC25A5-AS1	7.83E-08	-0.312	6.40E-06
AC048382.2	8.11E-08	-0.312	6.57E-06
LINC01607	8.17E-08	-0.312	6.61E-06
TAF1A-AS1	8.37E-08	-0.311	6.70E-06
ATXN2-AS	8.80E-08	-0.311	6.97E-06
RAD21-AS1	9.20E-08	-0.310	7.21E-06
LINC01977	9.76E-08	-0.310	7.61E-06
AL139286.2	1.01E-07	-0.310	7.89E-06
AL139397.1	1.06E-07	-0.309	8.22E-06
AL133255.1	1.07E-07	-0.309	8.23E-06
AC007938.1	1.08E-07	-0.309	8.29E-06
AC010761.2	1.10E-07	-0.309	8.37E-06
AC009237.14	1.13E-07	-0.308	8.53E-06
DANT2	1.26E-07	-0.307	9.42E-06
AL157932.1	1.46E-07	-0.306	1.08E-05
TOLLIP-AS1	1.57E-07	-0.305	1.15E-05
MAPK6-DT	1.62E-07	-0.305	1.18E-05
AC004830.1	1.74E-07	-0.304	1.27E-05
LINC00449	1.77E-07	-0.304	1.28E-05
AC007541.1	1.83E-07	-0.303	1.32E-05
ZNF197-AS1	1.90E-07	-0.303	1.35E-05
AP000842.3	2.15E-07	-0.302	1.49E-05
AC009262.1	2.28E-07	-0.301	1.56E-05

AP000525.1	2.41E-07	-0.301	1.63E-05
AL353796.1	2.46E-07	-0.300	1.66E-05
AC126768.3	2.56E-07	-0.300	1.71E-05
LINC02100	2.57E-07	0.300	1.71E-05
LINC01926	2.53E-07	0.300	1.69E-05
AC006369.1	2.19E-07	0.302	1.51E-05
AC104078.1	1.05E-07	0.309	8.15E-06
AL590648.3	8.49E-08	0.311	6.77E-06
AC007991.2	7.39E-08	0.313	6.07E-06
AC138207.5	7.19E-08	0.313	5.95E-06
AL590385.2	6.18E-08	0.314	5.29E-06
AC011899.3	5.60E-08	0.315	4.87E-06
AC091814.1	4.24E-08	0.318	3.88E-06
AL157394.1	3.99E-08	0.319	3.72E-06
AC008957.1	3.09E-08	0.321	3.00E-06
AC004988.1	1.71E-08	0.327	1.81E-06
AC009133.3	1.70E-08	0.327	1.81E-06
AC005515.2	1.66E-08	0.327	1.78E-06
LINC01857	1.61E-08	0.327	1.74E-06
SENCR	9.45E-09	0.332	1.09E-06
AC022182.2	5.41E-09	0.337	6.58E-07
AP4B1-AS1	3.82E-09	0.341	4.83E-07
AC106882.1	2.21E-09	0.345	3.01E-07
AC007278.2	1.39E-09	0.350	2.01E-07
AC008972.2	1.35E-09	0.350	1.96E-07
AC007278.1	8.76E-10	0.354	1.30E-07
AL022067.1	4.76E-10	0.359	7.55E-08
AC068789.1	3.55E-10	0.361	5.84E-08
AC013264.1	1.62E-10	0.368	2.89E-08
LINC02285	1.15E-10	0.370	2.12E-08
AC026369.3	1.09E-10	0.371	2.03E-08
LINC01480	1.03E-10	0.371	1.93E-08
LINC02325	9.73E-11	0.372	1.85E-08
LINC00582	7.83E-11	0.374	1.52E-08
AC096734.1	5.42E-11	0.376	1.08E-08
OSTN-AS1	4.51E-11	0.378	9.11E-09
AC246787.2	3.04E-11	0.381	6.55E-09
AOAH-IT1	3.03E-11	0.381	6.57E-09
AC243960.3	1.92E-11	0.385	4.38E-09
AC079015.1	2.76E-12	0.399	7.38E-10
IL21-AS1	1.20E-12	0.405	3.35E-10
BFSP2-AS1	1.54E-13	0.420	4.90E-11
AC021188.1	1.11E-15	0.452	4.60E-13
Z99774.1	2.85E-16	0.460	1.24E-13
AC133644.2	2.59E-16	0.460	1.15E-13
AF127936.1	4.34E-17	0.471	2.10E-14
LINC01281	4.62E-18	0.484	2.41E-15
Z82188.2	3.90E-18	0.485	2.07E-15
AL365361.1	7.28E-19	0.494	4.41E-16
AC015911.3	3.43E-19	0.498	2.22E-16
TRBV11-2	3.26E-20	0.510	2.44E-17
LINC00996	6.95E-21	0.518	5.64E-18
AC083949.1	4.15E-21	0.520	3.52E-18
LINC01684	3.82E-22	0.532	3.83E-19

AL162414.1	1.53E-22	0.536	1.58E-19
LINC02195	1.08E-22	0.538	1.25E-19
AC022706.1	5.30E-27	0.581	1.06E-23
LINC02446	1.53E-27	0.586	3.26E-24
AL591468.1	9.92E-28	0.587	2.37E-24
AC006033.2	2.46E-28	0.593	7.82E-25
LINC01871	1.35E-45	0.714	2.58E-41

PD-L1 expression

lncRNA	<i>p</i> -value	PCC	FDR
AC064836.3	1.19E-10	-0.370	2.17E-08
AC009237.15	4.36E-09	-0.339	5.39E-07
CAMTA1-DT	1.84E-08	-0.326	1.93E-06
AC092171.4	2.32E-08	-0.324	2.36E-06
AC118553.1	3.35E-08	-0.320	3.19E-06
AC007114.1	4.08E-08	-0.319	3.78E-06
AL161729.3	4.53E-08	-0.317	4.09E-06
AC092171.5	5.88E-08	-0.315	5.06E-06
BX284668.5	7.25E-08	-0.313	6.00E-06
AL354760.1	1.09E-07	-0.309	8.32E-06
COA6-AS1	1.10E-07	-0.309	8.35E-06
BX649601.1	1.29E-07	-0.307	9.63E-06
TIPARP-AS1	1.47E-07	-0.306	1.09E-05
AC073657.1	1.84E-07	-0.303	1.31E-05
AC080129.2	2.30E-07	-0.301	1.57E-05
DANT2	2.33E-07	-0.301	1.59E-05
AL139287.1	2.43E-07	-0.301	1.64E-05
AC133644.2	2.14E-07	0.302	1.48E-05
LINC02555	1.24E-07	0.307	9.37E-06
LINC00582	1.08E-07	0.309	8.30E-06
AP001434.1	1.07E-07	0.309	8.23E-06
CFAP58-DT	8.81E-08	0.311	6.96E-06
AC007728.3	8.65E-08	0.311	6.88E-06
AC109479.1	7.93E-08	0.312	6.44E-06
AL592164.1	7.91E-08	0.312	6.44E-06
LINC01480	6.69E-08	0.314	5.63E-06
AF124730.1	5.12E-08	0.316	4.52E-06
AL157394.1	4.83E-08	0.317	4.29E-06
LINC01926	4.25E-08	0.318	3.88E-06
AC023825.2	1.68E-08	0.327	1.79E-06
TRBV11-2	1.57E-08	0.328	1.70E-06
AC022126.1	1.20E-08	0.330	1.35E-06
LINC02100	1.01E-08	0.332	1.15E-06
AC099343.2	1.01E-08	0.332	1.15E-06
AC012181.2	7.58E-09	0.334	8.96E-07
AC068789.1	6.12E-09	0.336	7.37E-07
AC012181.1	4.11E-09	0.340	5.13E-07
AC116366.2	2.64E-09	0.344	3.51E-07
AC026369.3	1.33E-09	0.350	1.95E-07
AP4B1-AS1	6.70E-10	0.356	1.02E-07
IL21-AS1	6.60E-10	0.356	1.01E-07
AL445471.1	6.19E-10	0.356	9.57E-08
AC243960.3	4.20E-10	0.360	6.74E-08

AC021188.1	1.85E-10	0.367	3.23E-08
AC106882.1	1.84E-10	0.367	3.23E-08
AOAH-IT1	1.79E-10	0.367	3.14E-08
AC034199.1	5.85E-11	0.376	1.15E-08
AL512306.3	4.80E-11	0.377	9.60E-09
AL022067.1	3.25E-11	0.380	6.97E-09
AL365361.1	2.62E-11	0.382	5.75E-09
AC008972.2	2.25E-11	0.383	5.03E-09
AC096734.1	1.15E-11	0.388	2.71E-09
Z84488.1	1.13E-11	0.389	2.68E-09
BFSP2-AS1	3.41E-12	0.398	9.04E-10
AC007278.1	2.31E-12	0.400	6.34E-10
Z82188.2	1.03E-12	0.406	2.92E-10
AC005515.2	6.95E-13	0.409	2.04E-10
AF127936.1	1.40E-13	0.420	4.50E-11
AC112721.2	5.07E-14	0.427	1.70E-11
AC007991.2	1.00E-14	0.438	3.64E-12
AC004988.1	2.58E-15	0.446	1.00E-12
AL157871.2	2.18E-15	0.447	8.66E-13
AC007278.2	2.17E-15	0.447	8.73E-13
AC007991.4	1.29E-15	0.451	5.28E-13
AL162414.1	3.80E-16	0.458	1.63E-13
LINC00996	2.72E-16	0.460	1.19E-13
LINC01684	9.00E-17	0.467	4.19E-14
AC015911.3	3.90E-18	0.485	2.10E-15
LINC02195	4.65E-19	0.496	2.91E-16
Z99774.1	5.65E-21	0.519	4.69E-18
AC083949.1	1.99E-21	0.524	1.81E-18
LINC02446	1.30E-22	0.537	1.46E-19
AC006033.2	3.66E-23	0.543	4.51E-20
LINC01871	8.26E-28	0.588	2.10E-24
AL591468.1	1.49E-28	0.595	5.17E-25