

**Differentially expressed genes analysis between two TMB levels**

Gene	conMean	treatMean	logFC	pValue	fdr
<i>RNF182</i>	1.630716	0.412597	-1.9827	8.60E-15	4.75E-13
<i>CHL1</i>	2.042095	0.534194	-1.93461	6.29E-20	1.73E-17
<i>TDRD12</i>	0.869421	0.165285	-2.3951	5.70E-05	0.000223
<i>GCCR</i>	1.035241	0.25563	-2.01784	0.000181	0.000613
<i>MAGEA11</i>	1.477359	0.342794	-2.10761	4.58E-07	3.10E-06
<i>PLAG1</i>	0.82663	0.268006	-1.62497	1.26E-06	7.65E-06
<i>ADGRG2</i>	2.555039	0.847911	-1.59136	1.34E-10	2.43E-09
<i>CHST13</i>	0.783401	0.274036	-1.51538	1.35E-10	2.44E-09
<i>WNT7A</i>	20.30282	6.69052	-1.60149	1.82E-09	2.36E-08
<i>HIF3A</i>	2.179546	0.225002	-3.27602	1.36E-20	4.32E-18
<i>CLDN6</i>	40.25443	4.124133	-3.28698	1.39E-10	2.51E-09
<i>POU2F3</i>	0.697148	0.191078	-1.86731	6.56E-16	4.84E-14
<i>GABRE</i>	1.212663	0.426939	-1.50608	1.05E-14	5.68E-13
<i>GATA5</i>	1.511355	0.477325	-1.6628	5.57E-07	3.69E-06
<i>SLC5A8</i>	0.804066	0.083929	-3.26008	0.00026	0.000838
<i>ACTL8</i>	3.663444	0.305131	-3.5857	0.003224	0.007522
<i>KRT71</i>	1.513446	0.077135	-4.29431	0.008097	0.01665
<i>SMIM31</i>	0.482965	1.38905	1.524108	2.54E-11	5.53E-10
<i>RSPO4</i>	2.412672	0.566989	-2.08924	1.39E-15	9.65E-14
<i>PAGE2</i>	4.162606	0.6476	-2.68431	3.04E-06	1.68E-05
<i>LY6G6C</i>	11.32129	1.905077	-2.57112	0.000173	0.000589
<i>KRT31</i>	8.092985	0.982351	-3.04236	0.004489	0.01004
<i>COL9A1</i>	5.235937	1.024195	-2.35396	7.57E-09	8.33E-08
<i>MYOC</i>	2.707422	0.949821	-1.51119	0.002999	0.007078
<i>PTX3</i>	1.858921	0.412867	-2.17072	2.72E-24	3.66E-21
<i>SLC19A3</i>	0.799965	0.265727	-1.58999	1.88E-08	1.85E-07
<i>RGS22</i>	0.736547	0.252507	-1.54445	4.24E-21	1.63E-18
<i>GRIK5</i>	2.754587	0.832733	-1.72591	3.01E-09	3.68E-08
<i>CADM3</i>	1.343246	0.270286	-2.31317	1.52E-05	6.98E-05
<i>ODAM</i>	7.983925	2.00012	-1.99701	0.01244	0.024148
<i>SPAG6</i>	0.842102	0.206371	-2.02876	6.94E-10	1.02E-08
<i>GPRIN2</i>	1.671524	0.496148	-1.75232	2.88E-14	1.37E-12
<i>ENDOU</i>	1.133062	0.255133	-2.1509	0.001567	0.004056
<i>PQLC2L</i>	0.775289	0.244106	-1.66722	1.13E-08	1.18E-07
<i>NUDT11</i>	1.099224	0.376268	-1.54665	3.20E-06	1.76E-05
<i>PNMA3</i>	4.024558	0.488403	-3.04269	3.77E-24	4.56E-21
<i>FGF8</i>	3.229773	0.302236	-3.41768	0.006855	0.014423
<i>TNNT3</i>	1.020403	0.272762	-1.90342	0.000344	0.001072
<i>MCCD1</i>	1.301517	0.200898	-2.69566	1.09E-05	5.20E-05

<i>IGLON5</i>	2.023583	0.187778	-3.42981	2.44E-10	4.10E-09
<i>PCSK1N</i>	28.40073	9.237463	-1.62036	4.76E-20	1.41E-17
<i>CALML5</i>	9.007291	2.139654	-2.07372	0.004626	0.010295
<i>PLXNA4</i>	1.758855	0.568097	-1.63043	3.65E-07	2.54E-06
<i>SLC22A16</i>	1.137511	0.344901	-1.72162	1.66E-09	2.20E-08
<i>SST</i>	105.017	7.784793	-3.75382	3.36E-11	7.13E-10
<i>GZMH</i>	2.138484	6.286956	1.555774	2.51E-13	9.28E-12
<i>CDKN2A</i>	19.51661	5.757794	-1.76111	6.79E-22	3.68E-19
<i>PRSS50</i>	3.006242	0.818354	-1.87716	6.61E-20	1.78E-17
<i>IQCA1</i>	1.475027	0.422174	-1.80483	7.75E-22	3.91E-19
<i>ADAMTSL2</i>	5.845492	1.547998	-1.91692	0.000728	0.00207
<i>ATP6V1B1</i>	15.5835	5.256991	-1.56771	0.000113	0.000404
<i>TCEAL5</i>	2.025826	0.386771	-2.38896	4.29E-14	1.99E-12
<i>LIX1</i>	2.542736	0.302831	-3.0698	1.64E-14	8.32E-13
<i>WNT10A</i>	4.761424	1.460722	-1.70471	8.29E-09	9.00E-08
<i>GFAP</i>	0.959522	0.23304	-2.04174	0.000546	0.001607
<i>CACNG6</i>	3.16827	0.80675	-1.9735	2.01E-12	5.80E-11
<i>AARD</i>	1.143473	0.182342	-2.64871	3.59E-11	7.56E-10
<i>NPY1R</i>	1.006231	0.297385	-1.75855	5.84E-06	2.98E-05
<i>CXCL13</i>	4.793613	14.31331	1.578172	1.75E-21	7.59E-19
<i>CRTAC1</i>	2.854503	0.311302	-3.19685	1.20E-22	9.05E-20
<i>KLK4</i>	5.562317	0.681652	-3.02858	0.017447	0.032129
<i>HOXD1</i>	0.918274	0.287135	-1.6772	0.021931	0.038932
<i>PNOC</i>	5.669754	0.990585	-2.51693	0.017696	0.032551
<i>EDN3</i>	14.98463	4.123703	-1.86147	6.36E-07	4.15E-06
<i>NPR1</i>	8.817589	2.330094	-1.92	3.54E-14	1.66E-12
<i>DLK1</i>	2.188561	0.472822	-2.21061	0.000435	0.001322
<i>COL22A1</i>	1.036565	0.257784	-2.00758	0.002082	0.005185
<i>SSTR1</i>	0.882533	0.164816	-2.4208	1.94E-14	9.63E-13
<i>LY6H</i>	0.74104	0.175429	-2.07867	7.06E-06	3.55E-05
<i>TCHH</i>	0.826312	0.250756	-1.7204	4.00E-05	0.000163
<i>TRO</i>	3.721455	0.923509	-2.01067	1.67E-24	2.53E-21
<i>CARTPT</i>	0.966356	0.037063	-4.70451	7.48E-07	4.80E-06
<i>TMEM108</i>	0.768164	0.253945	-1.5969	2.09E-17	2.48E-15
<i>DLGAP3</i>	1.454451	0.352683	-2.04403	3.24E-08	2.99E-07
<i>COL4A4</i>	0.799722	0.209728	-1.93098	1.23E-07	9.84E-07
<i>MYLPF</i>	2.480623	0.868692	-1.51379	1.57E-07	1.22E-06
<i>GLYATL3</i>	0.364805	1.957805	2.424038	7.89E-05	0.000295
<i>IL1A</i>	0.300017	0.901344	1.587033	3.16E-07	2.24E-06
<i>DHRS2</i>	0.814467	4.402396	2.434361	0.004049	0.009186
<i>CITED1</i>	0.933859	3.854218	2.045161	0.025676	0.044683

<i>IFNG</i>	0.278925	1.015703	1.864532	1.84E-19	4.05E-17
<i>PROK2</i>	2.041066	0.382393	-2.41619	7.64E-06	3.80E-05
<i>COX4I2</i>	4.199657	1.479552	-1.50511	9.92E-06	4.80E-05
<i>KRT83</i>	1.236161	0.371899	-1.73288	2.20E-06	1.26E-05
<i>APOA1</i>	20.65247	1.768665	-3.54558	3.11E-05	0.000131
<i>LYPD2</i>	15.15041	4.194007	-1.85296	2.82E-06	1.57E-05
<i>GAL3ST3</i>	2.352654	0.243835	-3.27031	3.87E-10	6.13E-09
<i>AOC1</i>	52.15504	13.84197	-1.91376	2.34E-08	2.25E-07
<i>CAMP</i>	1.163418	3.864209	1.731804	0.001306	0.003456
<i>KLK5</i>	7.223931	1.134147	-2.67118	7.47E-05	0.000281
<i>KLK7</i>	10.00585	1.997278	-2.32474	1.26E-10	2.28E-09
<i>IGFBPL1</i>	2.061754	0.629648	-1.71126	2.61E-14	1.27E-12
<i>P2RX2</i>	0.880169	0.202263	-2.12155	1.21E-08	1.25E-07
<i>CTCFL</i>	1.288462	0.242686	-2.40849	1.12E-09	1.53E-08
<i>HOXC10</i>	2.865034	11.22041	1.9695	7.85E-08	6.59E-07
<i>FGF4</i>	2.179747	0.452523	-2.2681	0.003981	0.009059
<i>LICAM</i>	9.165955	1.486147	-2.62471	6.60E-05	0.000253
<i>RGN</i>	0.95097	0.313019	-1.60315	1.98E-13	7.54E-12
<i>CD8B2</i>	1.330121	0.221388	-2.58691	0.006021	0.012894
<i>SOX11</i>	0.921769	0.054452	-4.08135	3.16E-05	0.000133
<i>SDR16C5</i>	0.817601	0.154577	-2.40307	1.67E-13	6.55E-12
<i>UPK1A</i>	0.831941	0.272454	-1.61047	0.000592	0.001724
<i>MYH7B</i>	5.749825	0.683364	-3.07279	1.25E-06	7.61E-06
<i>HOXC11</i>	0.40969	1.43045	1.803863	1.16E-07	9.36E-07
<i>SIX3</i>	2.225151	0.591464	-1.91154	1.01E-06	6.30E-06
<i>PAGE2B</i>	2.035844	0.090726	-4.48796	0.000132	0.000461
<i>KLK6</i>	21.10684	5.260842	-2.00434	5.69E-08	4.98E-07
<i>CNTFR</i>	4.027825	1.136181	-1.82581	4.42E-14	2.04E-12
<i>ASCL5</i>	1.544379	0.44982	-1.77961	2.00E-06	1.16E-05
<i>ERVMER34-1</i>	7.126847	1.78306	-1.99891	3.10E-08	2.90E-07
<i>BTBD17</i>	0.724581	0.204766	-1.82317	1.71E-07	1.31E-06
<i>DMRTA2</i>	0.389337	1.226692	1.65568	4.13E-07	2.83E-06
<i>UPK2</i>	6.772825	1.083142	-2.64453	1.27E-05	5.94E-05
<i>WNT6</i>	4.50876	1.152883	-1.96748	3.07E-15	1.93E-13
<i>PDCL2</i>	1.272741	0.1795	-2.82588	1.73E-05	7.84E-05
<i>CYTL1</i>	4.807743	0.90913	-2.4028	7.75E-15	4.38E-13
<i>NOTUM</i>	59.68123	11.0226	-2.43681	2.18E-05	9.61E-05
<i>IL13RA2</i>	1.930811	0.54548	-1.82361	2.68E-06	1.50E-05
<i>NEFH</i>	3.851002	1.232936	-1.64314	2.31E-08	2.22E-07
<i>FGF3</i>	7.998251	1.193152	-2.74491	0.003716	0.008535

<i>C9orf135</i>	1.425296	0.466149	-1.6124	0.000692	0.001978
<i>WT1</i>	5.428911	1.450486	-1.90413	6.69E-07	4.34E-06
<i>NELLI</i>	0.949265	0.333959	-1.50714	5.55E-09	6.34E-08
<i>GABRA3</i>	0.813949	0.211321	-1.9455	1.63E-13	6.51E-12
<i>MUCL1</i>	12.95181	1.745076	-2.89179	0.004073	0.009231
<i>UCMA</i>	1.161078	0.071685	-4.01766	0.00243	0.005921
<i>IGF2</i>	278.3226	28.43977	-3.29078	4.06E-09	4.79E-08
<i>ADAMTS16</i>	1.031874	0.219682	-2.23178	1.14E-06	7.02E-06
<i>KLK8</i>	5.979494	1.152369	-2.37542	8.60E-15	4.75E-13
<i>ADAM33</i>	2.611784	0.913692	-1.51526	8.70E-10	1.23E-08
<i>NPY</i>	1.862903	0.12178	-3.93521	1.12E-09	1.54E-08
<i>BMP3</i>	1.71929	0.419685	-2.03443	0.000625	0.001811
<i>RASL11B</i>	9.734023	2.985439	-1.70509	6.93E-10	1.02E-08
<i>MYOZ1</i>	1.605849	0.492051	-1.70646	5.69E-13	1.88E-11
<i>REG1A</i>	1.881395	0.452234	-2.05666	1.72E-05	7.81E-05
<i>KISS1R</i>	0.891947	2.594534	1.540445	3.82E-19	7.47E-17
<i>LRCH2</i>	0.867512	0.234735	-1.88585	1.89E-08	1.85E-07
<i>ERAS</i>	1.837508	0.127362	-3.85074	4.31E-09	5.04E-08
<i>GDNF</i>	0.818129	0.211389	-1.95242	0.01031	0.020551
<i>DPEP1</i>	8.084635	1.57802	-2.35707	0.000177	0.000599
<i>TSPYL5</i>	3.411397	0.968641	-1.81633	2.08E-06	1.20E-05
<i>PCDH10</i>	0.766387	0.187373	-2.03216	1.55E-07	1.20E-06
<i>ERP27</i>	7.867264	2.485093	-1.66256	1.28E-18	2.09E-16
<i>RELN</i>	0.826388	0.162359	-2.34763	1.40E-11	3.30E-10
<i>ALX4</i>	0.745933	0.223611	-1.73805	0.005422	0.0118
<i>AMBP</i>	2.918184	10.08268	1.788736	3.26E-09	3.95E-08
<i>HOXC9</i>	1.31629	4.96288	1.9147	1.34E-06	8.12E-06
<i>CRB2</i>	0.935557	0.14816	-2.65867	1.30E-11	3.07E-10
<i>RYR1</i>	0.862422	0.254955	-1.75815	2.30E-11	5.08E-10
<i>MMP26</i>	4.122411	17.47035	2.083348	0.00548	0.011909
<i>GOLGA7B</i>	1.081369	0.376228	-1.52318	7.71E-06	3.83E-05
<i>GPR83</i>	0.961494	0.248121	-1.95423	1.98E-07	1.49E-06
<i>RHOXF1</i>	1.717006	0.320759	-2.42033	1.78E-05	8.05E-05
<i>LBP</i>	10.08294	2.536913	-1.99077	0.00967	0.019415
<i>COL25A1</i>	1.037569	0.346677	-1.58154	1.57E-07	1.21E-06
<i>ITLN2</i>	1.181067	0.235413	-2.32683	3.01E-05	0.000128
<i>CPXM2</i>	7.615531	2.264173	-1.74996	1.02E-12	3.13E-11
<i>HTR3A</i>	2.686621	0.628111	-2.0967	0.000432	0.001311
<i>KCNJ4</i>	1.031696	0.305623	-1.75519	6.80E-08	5.85E-07