

Table S1. Differentially expressed genes (DEGs) identified in the TARGET-NBL dataset between high- and low-risk groups. Columns: Gene, "baseMean", "log2FoldChange", "lfcSE", "stat", "pvalue", "padj"

TNMD	8.2507806414723	1.27691890359403	0.344670187366309	3.70475588083556	0.000211594	
CFH	3368.16830553428	1.41276434330588	0.272217356952933	5.18983932222276	2.1047562263	
CFTR	15.9931769513096	1.19386135844049	0.419715806623194	2.84445174473091	0.004448792	
CD99	5200.97147112286	1.28207369410436	0.204843709407078	6.25878967831296	3.879766890	
TMEM176A	4320.44682766171	1.34593955004749	0.22335076957189	6.02612452434049	1.67937	
SLC7A2	940.876509480225	1.10282959697526	0.265747553005088	4.14991439997997	3.32599632	
HSPB6	793.999992470531	1.4501425231479	0.304678217590079	4.75958712972042	1.939893697	
PDK4	1913.31320709824	1.15753228476069	0.288478210809996	4.01254667210581	6.006719804	
SLC22A16	11.9860158518793	1.24987899478154	0.383946576890257	3.25534610805709	0.001132	
ABCB5	8.76368678915715	2.61597438878768	0.536362237832892	4.87725310297238	1.07573367	
PRSS22	4.97880524277426	2.17854748333957	0.477205509594357	4.56521863125893	4.98974038	
HOXA11	10.9943157748907	2.72370818024284	0.543580637252614	5.01067917725899	5.4238271	
COPZ2	590.778715818322	1.71754123799963	0.250750637354041	6.84959869344055	7.40574426	
SOX8	403.970784705876	2.25752941978607	0.383228645864197	5.89081595060631	3.842933718	
ASB4	15.0266978834504	3.32194837447759	0.538820548885368	6.16522213443704	7.038426352	
CRLF1	1088.55098493594	1.7761689330525	0.327635501858572	5.42117359985979	5.920902583	
TNFRSF12A	1013.0689373881	2.00272964352414	0.300662141958803	6.66106357945975	2.71852	
ETV1	1323.2326543275	1.49905927937114	0.308698241192059	4.85606679708451	1.1974032382	
CCL26	19.6776864733822	1.29663977865852	0.311402213862274	4.16387463202812	3.128919618	
USH1C	38.9342017163885	1.41876207233066	0.413715446839293	3.42931858882651	0.00060509	
TBXA2R	258.158066671203	1.02537285534625	0.210245377247244	4.87702925396755	1.0769546	
MYH13	3.96500544236386	1.70505280690924	0.502687943068431	3.39187129991921	0.00069417	
PROM1	78.3596423592596	2.13180505055194	0.399552694193756	5.33547910333488	9.5292603	
GAS7	3726.3013213628	2.0058705730272	0.36968757314129	5.42585339286095	5.767828826895	
TKTL1	41.656595037063	-1.02300570224642	0.380955947703677	-2.68536482607211	0.007245067	
RHBDF1	1516.37513188688	1.28020946568454	0.270169474467219	4.73854223616174	2.1526116	
SELE	348.344253654506	1.64804329550592	0.39953795438725	4.12487293737447	3.70939484188	
FMO3	360.079097103614	1.51297068766015	0.362418753380055	4.17464789983854	2.98447279	
MGST1	401.168402183398	3.61377565867971	0.427761304645066	8.44811257922976	2.9604983	
NFIX	1792.3355057265	1.26498257406702	0.286856188607528	4.40981447953961	1.03459213955	
TENM1	2879.16844553427	-1.0247275666762	0.300616831135716	-3.40874981219392	0.0006526	
MLXIPL	173.052152521312	2.29352689521692	0.443002975685094	5.17722683842029	2.25208332	
STAB1	7526.09469607103	1.06413381124958	0.214893446633794	4.95191374105976	7.34871795	
HFE	203.077156514253	1.2016500206887	0.241185308022276	4.98226873992554	6.28430741440	
FMO1	146.730805570495	1.86502728283101	0.331990189542926	5.61771805787008	1.934958982	
MRC2	2865.22677129348	1.21225202561361	0.218422032188662	5.55004462446595	2.855966888	
KAL1	388.577738429291	1.17204347426458	0.239022099783469	4.90349417617175	9.4146735301	
PLAUR	1350.40305285348	1.54127240637538	0.297874014671936	5.17424256719025	2.28837377	
DCN	13575.6701010107	2.74627689869099	0.379821354308035	7.23044364815718	4.8141872430	
SEMA3B	5085.89217553659	2.24037119497181	0.354559353880786	6.31874796264744	2.6369092	
NR1H4	22.6678483328187	2.17867499115258	0.60894413912511	3.57779121461412	0.000346510	
EHD3	2681.05428297445	1.35931834198199	0.250534303054746	5.42567754358553	5.773510785	
CLDN11	371.793146961796	1.48672838528997	0.266361827811818	5.58161204067248	2.3829946	
GPRC5A	297.887835812273	1.8918103979672	0.375668920313524	5.03584485080198	4.75745790	
IL20RA	54.0356878100321	2.44682282146143	0.463824305463699	5.27532255778461	1.32522784	
IGF1	124.909701548753	1.60915127279468	0.316376948068541	5.08618368885102	3.6534022778	
SLC11A1	486.391680120358	1.97148575626574	0.321210108040761	6.13768280298192	8.373384	
WWTR1	1896.15060398792	1.24813773818329	0.243010526446479	5.13614680168262	2.8042863	

ATP1A2,1283.56554268175,2.63519169683258,0.465674589446718,5.65886942631662,1.52373421
MARCO,213.647227587436,2.32141242518111,0.456847762912796,5.08136979894596,3.74722810
CYP24A1,7.69631435396509,1.47286200523018,0.584650728123474,2.51921691769299,0.0117610
SNAI2,696.537356292393,1.09187595998268,0.222014127643985,4.91804720523724,8.741183601
PLEKHB1,1165.86338598447,1.94901342684938,0.341102609241674,5.71386255643824,1.1044020
CPS1,112.848569709084,1.97678437365203,0.29800329771699,6.63343120293036,3.27971876624
C8B,2.80024429890611,3.48733842759547,0.914197646514682,3.81464384741168,0.00013637947
GABRA1,68.9888542541574,1.39458667772622,0.564130272214871,2.47210041086934,0.0134321
NLRP2,139.195123533856,-1.14173186941182,0.352745127157929,-3.23670486566537,0.0012091
EHD2,3367.29919586174,1.08004093701044,0.212698220150921,5.07780900208799,3.818122283
VIM,50569.9092347246,1.23443920781307,0.215044180858692,5.74039810277051,9.4454241228
MIPEP,1211.71137179227,-1.01264620356328,0.250020572768583,-4.05025151470468,5.1162612
INSRR,5709.22666959693,-1.1410899463228,0.336720998511484,-3.38882918311341,0.000701917
IBSP,54.4308450745638,1.5179863594845,0.548130454066556,2.7693888347612,0.005616156572
EFCAB1,27.633033789453,1.48635117695776,0.299422362073341,4.96406202484533,6.903388083
MYOC,6.24652632450614,1.10199246157545,0.43968277219431,2.50633532006672,0.0121989868
TLL1,109.707506231332,1.10355742775602,0.281154670034718,3.92509015631768,8.6697261370
VCAN,8614.13507845626,1.01001798367265,0.242109583679994,4.17173896349195,3.022838180
MSR1,856.742658313663,1.23713436225929,0.254551864396291,4.86004832529255,1.173571023
CDH1,348.613717209897,2.23394460353876,0.417753029382766,5.34752460524208,8.916529314
C6,55.5105768509135,2.5138961144159,0.384722380137223,6.53431212792778,6.3902553228807
ZIC2,4.83877993467216,2.75386891421498,0.744353536116734,3.69967868841171,0.0002158726
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CP,216.27089500018,1.17770211346012,0.326327263867317,3.6089602183499,0.00030742674405
ROS1,1.69614431761388,1.64945393704759,0.652002247991622,2.52982860431607,0.0114118257
UTS2,36.373667304993,1.95371421676895,0.460935557183461,4.23858430169086,2.24933718507
LTBP1,1393.70700099615,1.11048661992076,0.244025545357872,4.55069824059686,5.346818398
DKK3,9317.28948503853,1.19330467999279,0.234165549352937,5.09598736146381,3.4692827327
LAMC3,507.776964233694,1.70158035950683,0.354058951959416,4.80592384429211,1.54038530
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ALX4,12.3433205457464,1.00728444058053,0.316180426150649,3.18579000238489,0.0014435934
ENTPD2,112.059520307652,2.21574737684403,0.374131396798625,5.92237752779848,3.1732011
FOXC1,1075.21983721601,1.8046433907568,0.360358003178491,5.0079181670427,5.50219172411
MCOLN3,29.9738034566269,1.48620706681641,0.318777425793519,4.66220926126389,3.1283289
ITIH1,54.7315874262443,2.68159639578751,0.414253904638772,6.47331591992079,9.5875199624
NPFFR2,24.8878185387903,1.93407665163285,0.579862813740377,3.33540383311905,0.00085171
RASGRF1,242.849813366109,1.15259056327706,0.359045859016744,3.21014860450824,0.0013261
YBX3,3049.94127203467,1.29419845843191,0.270090359723112,4.79172399843772,1.6535427121
GNA15,315.398985351526,1.04766070067307,0.240468510780097,4.35674798864258,1.32009111
CREB3L3,9.94634157566592,1.68399593674449,0.50875143223697,3.31005640483407,0.00093277
COL11A1,1204.98275084036,1.01116392605597,0.361709415298085,2.79551452986831,0.0051817
DLX3,13.1237323049633,1.67478412363784,0.419543717594052,3.99191801331739,6.5541033968
WISP2,102.938391808965,1.92172215956165,0.344701913838467,5.57502608025032,2.474927850
NGFR,6671.84484005815,1.23108712360854,0.319229620462472,3.85643137320733,0.000115054
EYA2,143.201772875915,2.21593247823837,0.338461819600164,6.54706779292307,5.8677731789
BCAS1,52.4767628414933,2.19104115077704,0.385370695397653,5.68554167959284,1.303986758
ERBB3,1951.49906277227,2.16846816531515,0.445173412847417,4.87106395560598,1.109989007
COL17A1,51.1097861603403,1.0490994553406,0.282765876504662,3.71013457602725,0.0002071
FGFR2,306.700764502421,1.13889148814717,0.35213258266708,3.2342689776706,0.00121954540
ACSM2B,6.67096237359729,1.56329739058006,0.489694773533025,3.19239141414817,0.0014109

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TGFB3,773.921010677842,1.11638105315812,0.277488577923054,4.02316038200206,5.7422364
HES2,12.8531068304713,1.1056869372797,0.278887039047597,3.96464081319674,7.3506545552
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ST6GALNAC2,786.996960674483,1.97138417513209,0.324074811445501,6.08311447081907,1.178
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SPP2,1.5679193558487,2.78653566185747,0.966807486047458,2.88220323287887,0.0039490493
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DHRS9,45.9040406680447,1.09588743874043,0.342927680287729,3.19568090222679,0.00139501
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CA12,129.021586467205,1.81656659983494,0.306752661944132,5.92192611572443,3.181925843
SEMA3C,1784.45533503767,1.53877210519732,0.310148494750824,4.96140439576722,6.9985314
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MOCOS,78.9967201455711,1.67916604793398,0.281658924795328,5.96170012774911,2.4962694
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GPC4,384.705913623317,2.29325493285439,0.292953916764128,7.82803984389399,4.955349115
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OPRK1,5.02038474740287,2.03268184942888,0.665491099481727,3.05440876821928,0.00225504
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FAT1,3434.98822356188,1.02686929829574,0.252120590405563,4.07292913539474,4.6425553156
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LHX5,1.29357695981087,1.16550441586474,0.480426178946228,2.42598023784044,0.0152671016
KIF16B,440.108177930153,1.06050973419702,0.202385582538459,5.24004586144617,1.60536695
FXD3,68.0210212829368,3.08270654566567,0.458827922865515,6.71865506007842,1.834095034
HEPH,785.896005246502,1.52443279252914,0.263531641919077,5.78462905413557,7.267251369
LTBP4,10405.8213607342,1.07294269481098,0.258831919654499,4.14532603337022,3.393305440
SI,0.778788523406768,1.47567222055022,0.575643173028802,2.56351901610477,0.01036170246
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and low-score subgroups based on energy metabolism-related gene expression profiles.

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