p.adj

1.382e-02 6.861e-02

1.998e-07 1.567e-05

2.648e-04 3.753e-03

-0.2733245 163 2.160e-05 6.021e-04

-0.2541196 186 2.423e-05 6.574e-04

-0.3218582 162 6.152e-07 3.771e-05

-0.1753364 201 2.450e-03 1.974e-02

-0.1828477 212 1.173e-03 1.140e-02

-0.1560119 168

-0.3087975 191

-0.2354391 162

RPUSD1

MRI1

CREB3L3

DECR2

EBI3

CMBL

LCMT2

HEG1

permPValue

1.053e-04

1.054e-04

1.062e-04

1.037e-04

1.051e-04

1.018e-04

1.076e-04

1.093e-04

qValueNoperm

1.678e-02

3.407e-01

1.229e-03

5.319e-02

1.782e-02

2.284e-03

1.591e-01

1.107e-01

qValuePerm

2.149e-02

2.149e-02

2.149e-02

2.149e-02

2.149e-02

2.149e-02

2.149e-02

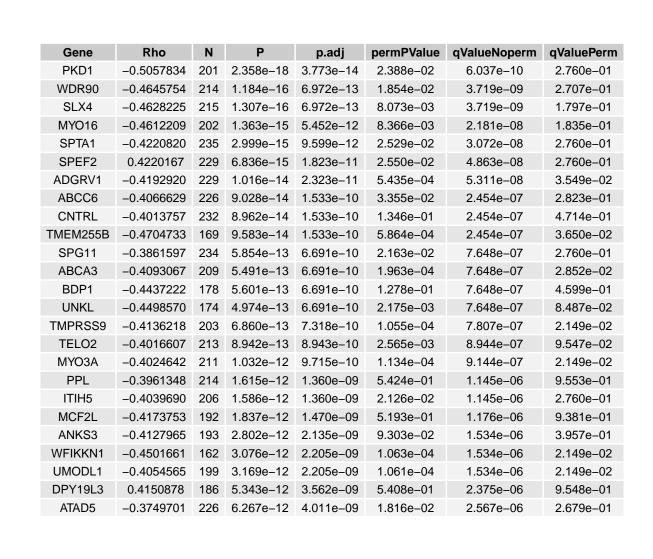
2.149e-02

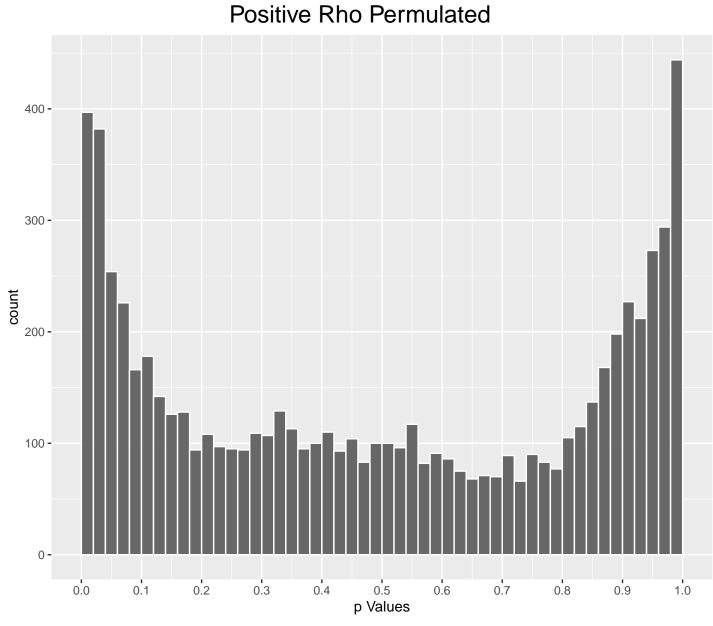
Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
RNF19B	-0.1871950	154	4.703e-03	3.201e-02	9.951e-05	2.179e-01	2.149e-02
CMBL	-0.3218582	162	6.152e-07	3.771e-05	1.018e-04	2.284e-03	2.149e-02
CRYGB	0.1984506	108	1.233e-02	6.323e-02	1.026e-04	3.243e-01	2.149e-02
GADD45GIP1	-0.2045067	147	2.560e-03	2.044e-02	1.032e-04	1.631e-01	2.149e-02
NEUROG1	-0.2397634	128	9.793e-04	9.950e-03	1.033e-04	1.011e-01	2.149e-02
DECR2	-0.2354391	162	2.648e-04	3.753e-03	1.037e-04	5.319e-02	2.149e-02
CHRDL2	-0.2359814	182	1.055e-04	1.874e-03	1.038e-04	3.328e-02	2.149e-02
HACD3	-0.2229536	132	1.848e-03	1.614e-02	1.040e-04	1.409e-01	2.149e-02
GMFG	-0.2444349	54	3.081e-02	1.206e-01	1.040e-04	4.723e-01	2.149e-02
LINGO2	0.2889738	123	9.886e-05	1.794e-03	1.041e-04	3.255e-02	2.149e-02
CERS5	-0.3208861	125	1.307e-05	4.029e-04	1.048e-04	1.240e-02	2.149e-02
CC2D1A	-0.2527257	207	9.344e-06	3.102e-04	1.049e-04	1.029e-02	2.149e-02
CAB39L	0.2192194	110	5.264e-03	3.442e-02	1.049e-04	2.250e-01	2.149e-02
ECSIT	-0.2510422	198	1.673e-05	4.891e-04	1.051e-04	1.428e-02	2.149e-02
EBI3	-0.2541196	186	2.423e-05	6.574e-04	1.051e-04	1.782e-02	2.149e-02
PLAC9	-0.2063483	142	2.786e-03	2.173e-02	1.051e-04	1.693e-01	2.149e-02
RAVER2	-0.2123411	189	3.759e-04	4.825e-03	1.051e-04	6.192e-02	2.149e-02
RPUSD1	-0.2733245	163	2.160e-05	6.021e-04	1.053e-04	1.678e-02	2.149e-02
MRI1	-0.1560119	168	1.382e-02	6.861e-02	1.054e-04	3.407e-01	2.149e-02
COMMD10	-0.2972601	122	6.651e-05	1.334e-03	1.055e-04	2.675e-02	2.149e-02
NFATC4	-0.2036805	183	7.902e-04	8.442e-03	1.055e-04	9.018e-02	2.149e-02
TMPRSS9	-0.4136218	203	6.860e-13	7.318e-10	1.055e-04	7.807e-07	2.149e-02
ODF3L2	-0.3850582	171	8.734e-10	2.369e-07	1.057e-04	6.424e-05	2.149e-02
TMPRSS2	-0.3288022	200	1.456e-08	1.926e-06	1.058e-04	2.529e-04	2.149e-02
HORMAD1	0.3484990	176	1.798e-08	2.266e-06	1.060e-04	2.838e-04	2.149e-02

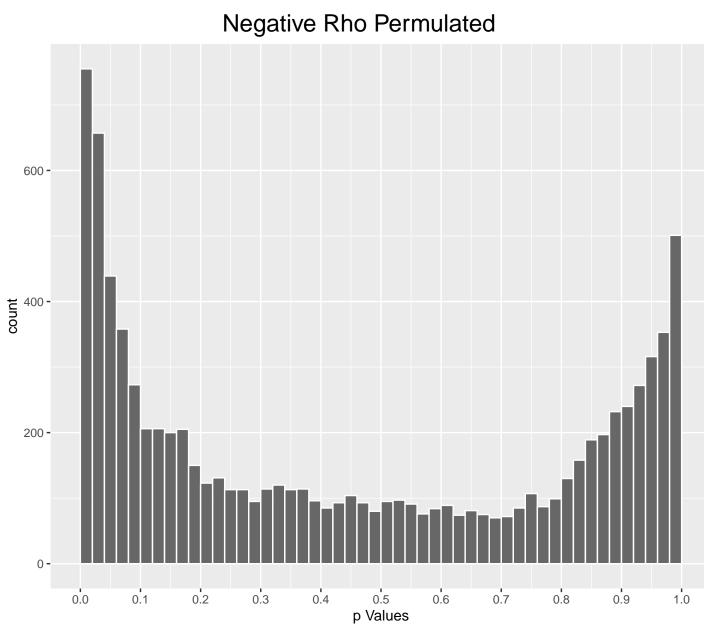
ACRBP	0.3046642	191	2.899e-07	2.041e-05	1.145e-04	1.432e-03	2.149e-02
RGS2	0.2595226	111	9.043e-04	9.361e-03	1.080e-04	9.689e-02	2.149e-02
CRYGB	0.1984506	108	1.233e-02	6.323e-02	1.026e-04	3.243e-01	2.149e-02
HACD3	-0.2229536	132	1.848e-03	1.614e-02	1.040e-04	1.409e-01	2.149e-02
CHRDL2	-0.2359814	182	1.055e-04	1.874e-03	1.038e-04	3.328e-02	2.149e-02
ARHGAP31	-0.2334420	215	3.009e-05	7.597e-04	1.081e-04	1.918e-02	2.149e-02
GFM1	-0.1676698	190	4.867e-03	3.272e-02	1.071e-04	2.200e-01	2.149e-02
NNT	0.1996167	171	1.481e-03	1.365e-02	1.088e-04	1.257e-01	2.149e-02
ECSIT	-0.2510422	198	1.673e-05	4.891e-04	1.051e-04	1.428e-02	2.149e-02
COMMD10	-0.2972601	122	6.651e-05	1.334e-03	1.055e-04	2.675e-02	2.149e-02
SSC4D	-0.1973770	185	1.075e-03	1.071e-02	1.073e-04	1.064e-01	2.149e-02
ITGB6	-0.2495221	189	2.926e-05	7.469e-04	1.097e-04	1.906e-02	2.149e-02
RHPN1	-0.2535907	196	1.518e-05	4.558e-04	1.094e-04	1.368e-02	2.149e-02
RAVER2	-0.2123411	189	3.759e-04	4.825e-03	1.051e-04	6.192e-02	2.149e-02
HAAO	-0.2567148	170	4.594e-05	1.037e-03	1.119e-04	2.337e-02	2.149e-02
CLDN1	0.2127884	101	9.506e-03	5.265e-02	1.090e-04	2.916e-01	2.149e-02
STT3B	0.2860180	67	4.730e-03	3.216e-02	1.071e-04	2.181e-01	2.149e-02

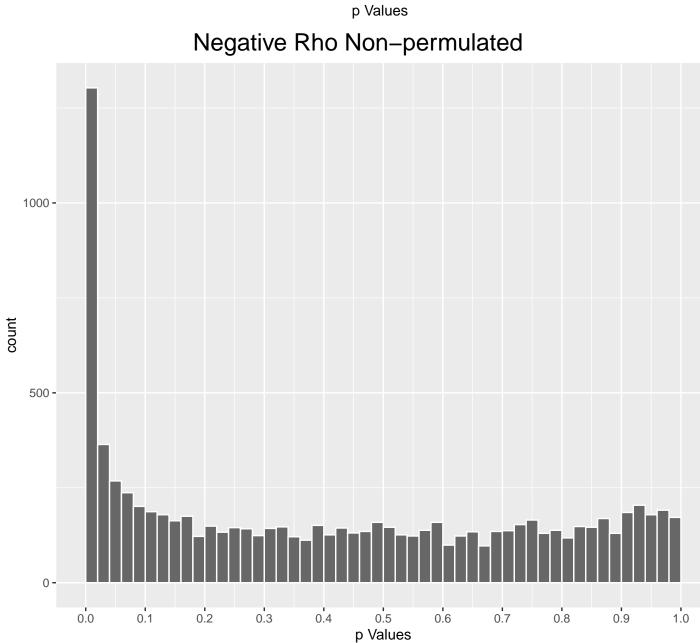
Top genes by Q-Value non-permulated

Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
PKD1	-0.5057834	201	2.358e-18	3.773e-14	2.388e-02	6.037e-10	2.760e-01
WDR90	-0.4645754	214	1.184e-16	6.972e-13	1.854e-02	3.719e-09	2.707e-01
SLX4	-0.4628225	215	1.307e-16	6.972e-13	8.073e-03	3.719e-09	1.797e-01
MYO16	-0.4612209	202	1.363e-15	5.452e-12	8.366e-03	2.181e-08	1.835e-01
SPTA1	-0.4220820	235	2.999e-15	9.599e-12	2.529e-02	3.072e-08	2.760e-01
SPEF2	0.4220167	229	6.836e-15	1.823e-11	2.550e-02	4.863e-08	2.760e-01
ADGRV1	-0.4192920	229	1.016e-14	2.323e-11	5.435e-04	5.311e-08	3.549e-02
ABCC6	-0.4066629	226	9.028e-14	1.533e-10	3.355e-02	2.454e-07	2.823e-01
CNTRL	-0.4013757	232	8.962e-14	1.533e-10	1.346e-01	2.454e-07	4.714e-01
TMEM255B	-0.4704733	169	9.583e-14	1.533e-10	5.864e-04	2.454e-07	3.650e-02
SPG11	-0.3861597	234	5.854e-13	6.691e-10	2.163e-02	7.648e-07	2.760e-01
ABCA3	-0.4093067	209	5.491e-13	6.691e-10	1.963e-04	7.648e-07	2.852e-02
BDP1	-0.4437222	178	5.601e-13	6.691e-10	1.278e-01	7.648e-07	4.599e-01
UNKL	-0.4498570	174	4.974e-13	6.691e-10	2.175e-03	7.648e-07	8.487e-02
TMPRSS9	-0.4136218	203	6.860e-13	7.318e-10	1.055e-04	7.807e-07	2.149e-02
TELO2	-0.4016607	213	8.942e-13	8.943e-10	2.565e-03	8.944e-07	9.547e-02
MYO3A	-0.4024642	211	1.032e-12	9.715e-10	1.134e-04	9.144e-07	2.149e-02
PPL	-0.3961348	214	1.615e-12	1.360e-09	5.424e-01	1.145e-06	9.553e-01
ITIH5	-0.4039690	206	1.586e-12	1.360e-09	2.126e-02	1.145e-06	2.760e-01
MCF2L	-0.4173753	192	1.837e-12	1.470e-09	5.193e-01	1.176e-06	9.381e-01
ANKS3	-0.4127965	193	2.802e-12	2.135e-09	9.303e-02	1.534e-06	3.957e-01
WFIKKN1	-0.4501661	162	3.076e-12	2.205e-09	1.063e-04	1.534e-06	2.149e-02
UMODL1	-0.4054565	199	3.169e-12	2.205e-09	1.061e-04	1.534e-06	2.149e-02
DPY19L3	0.4150878	186	5.343e-12	3.562e-09	5.408e-01	2.375e-06	9.548e-01
ATAD5	-0.3749701	226	6.267e-12	4.011e-09	1.816e-02	2.567e-06	2.679e-01









Top Positive genes by P-value Permulated

p Values

Top Negative genes by P-value Permulated

Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
CRYGB	0.1984506	108	1.233e-02	6.323e-02	1.026e-04	3.243e-01	2.149e-02
LINGO2	0.2889738	123	9.886e-05	1.794e-03	1.041e-04	3.255e-02	2.149e-02
CAB39L	0.2192194	110	5.264e-03	3.442e-02	1.049e-04	2.250e-01	2.149e-02
HORMAD1	0.3484990	176	1.798e-08	2.266e-06	1.060e-04	2.838e-04	2.149e-02
GNA14	0.2256336	100	6.220e-03	3.864e-02	1.061e-04	2.400e-01	2.149e-02
STT3B	0.2860180	67	4.730e-03	3.216e-02	1.071e-04	2.181e-01	2.149e-02
SKIV2L	0.3036541	202	1.444e-07	1.216e-05	1.072e-04	1.024e-03	2.149e-02
EHD3	0.3658636	112	2.602e-06	1.122e-04	1.077e-04	4.840e-03	2.149e-02
RGS2	0.2595226	111	9.043e-04	9.361e-03	1.080e-04	9.689e-02	2.149e-02
NDUFV1	0.2031905	120	6.862e-03	4.136e-02	1.082e-04	2.492e-01	2.149e-02

Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
RNF19B	-0.1871950	154	4.703e-03	3.201e-02	9.951e-05	2.179e-01	2.149e-02
CMBL	-0.3218582	162	6.152e-07	3.771e-05	1.018e-04	2.284e-03	2.149e-02
GADD45GIP1	-0.2045067	147	2.560e-03	2.044e-02	1.032e-04	1.631e-01	2.149e-02
NEUROG1	-0.2397634	128	9.793e-04	9.950e-03	1.033e-04	1.011e-01	2.149e-02
DECR2	-0.2354391	162	2.648e-04	3.753e-03	1.037e-04	5.319e-02	2.149e-02
CHRDL2	-0.2359814	182	1.055e-04	1.874e-03	1.038e-04	3.328e-02	2.149e-02
HACD3	-0.2229536	132	1.848e-03	1.614e-02	1.040e-04	1.409e-01	2.149e-02
GMFG	-0.2444349	54	3.081e-02	1.206e-01	1.040e-04	4.723e-01	2.149e-02
CERS5	-0.3208861	125	1.307e-05	4.029e-04	1.048e-04	1.240e-02	2.149e-02
CC2D1A	-0.2527257	207	9.344e-06	3.102e-04	1.049e-04	1.029e-02	2.149e-02

Top Positive genes by P-value non-permulated

Top Negative genes by P-value non-permulated

SPEF2 0.4220 DPY19L3 0.4150 MAP3K15 0.3855 UNC45A 0.3779 SHISA4 0.4946	0878 186 5619 200	5.343e-12 3.036e-11	1.823e-11 3.562e-09 1.619e-08	2.550e-02 5.408e-01 1.109e-01	4.863e-08 2.375e-06	2.760e-01 9.548e-01
MAP3K15 0.3855 UNC45A 0.3779 SHISA4 0.4946	5619 200	3.036e-11				9.548e-01
UNC45A 0.3779 SHISA4 0.4946			1.619e-08	1 1000 01		
SHISA4 0.4946	9295 196	4 4 4 0 4 0		1.1036-01	8.281e-06	4.316e-01
		1.140e-10	3.964e-08	6.196e-03	1.379e-05	1.583e-01
	6142 105	7.821e-10	2.235e-07	2.632e-01	6.331e-05	6.749e-01
ZBTB41 0.3933	3138 160	1.402e-09	3.486e-07	1.187e-01	8.452e-05	4.460e-01
DENND1B 0.3612	2950 189	1.438e-09	3.486e-07	3.418e-02	8.452e-05	2.827e-01
MTHFR 0.3536	5911 196	1.603e-09	3.772e-07	8.771e-03	8.750e-05	1.882e-01
SETX 0.3484	1304 201	1.744e-09	3.986e-07	3.153e-02	8.750e-05	2.799e-01
BCLAF3 0.3481	1278 201	1.801e-09	4.024e-07	4.897e-01	8.750e-05	9.144e-01

Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
PKD1	-0.5057834	201	2.358e-18	3.773e-14	2.388e-02	6.037e-10	2.760e-01
WDR90	-0.4645754	214	1.184e-16	6.972e-13	1.854e-02	3.719e-09	2.707e-01
SLX4	-0.4628225	215	1.307e-16	6.972e-13	8.073e-03	3.719e-09	1.797e-01
MYO16	-0.4612209	202	1.363e-15	5.452e-12	8.366e-03	2.181e-08	1.835e-01
SPTA1	-0.4220820	235	2.999e-15	9.599e-12	2.529e-02	3.072e-08	2.760e-01
ADGRV1	-0.4192920	229	1.016e-14	2.323e-11	5.435e-04	5.311e-08	3.549e-02
ABCC6	-0.4066629	226	9.028e-14	1.533e-10	3.355e-02	2.454e-07	2.823e-01
CNTRL	-0.4013757	232	8.962e-14	1.533e-10	1.346e-01	2.454e-07	4.714e-01
TMEM255B	-0.4704733	169	9.583e-14	1.533e-10	5.864e-04	2.454e-07	3.650e-02
SPG11	-0.3861597	234	5.854e-13	6.691e-10	2.163e-02	7.648e-07	2.760e-01