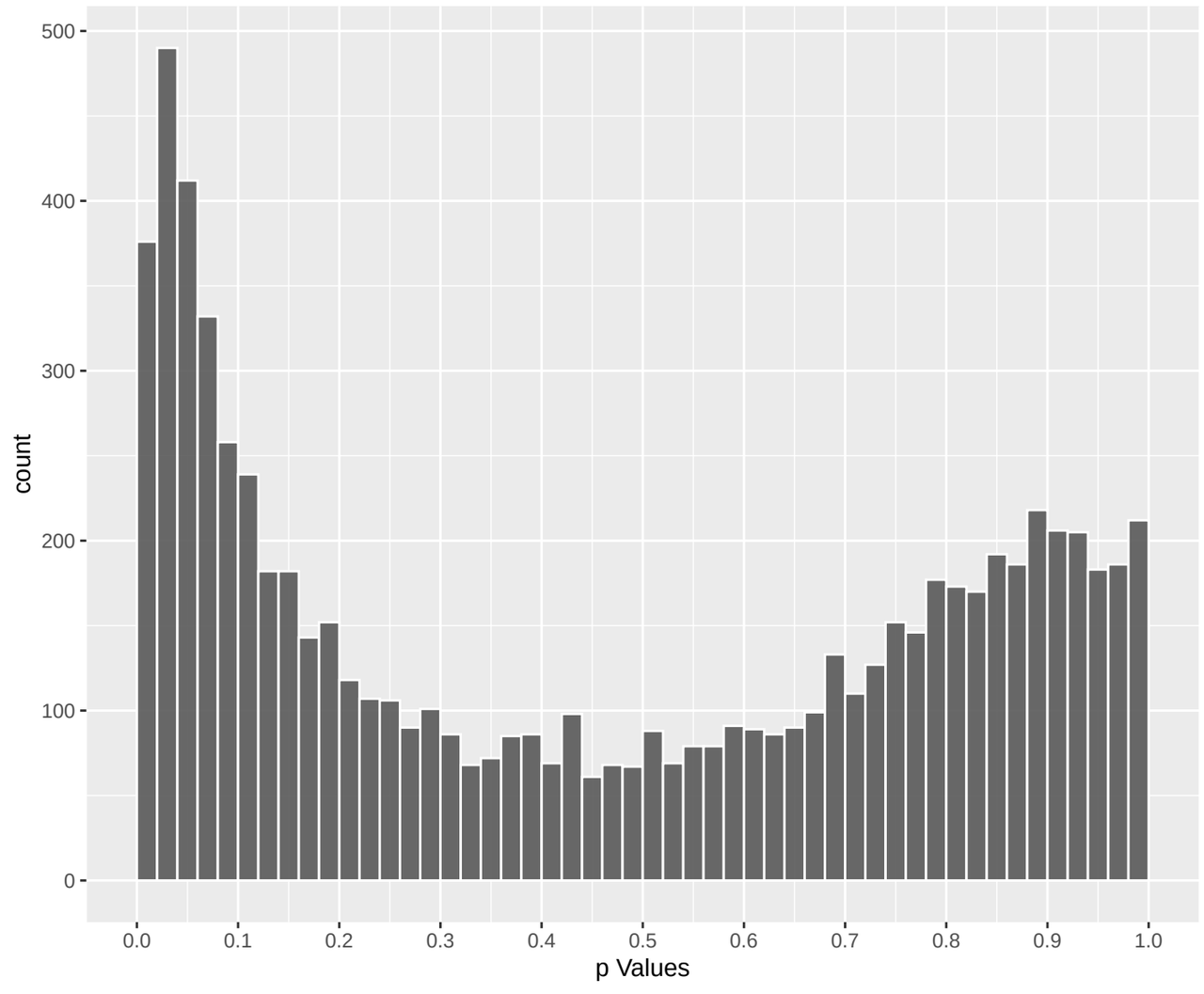
Top genes by P−value Permulated

Gene	Rho	N	P	p.adj	permPValue	qValueNoperm	qValuePerm
AC010255	0.2862415	46	1.999e−02	1.496e−01	2.233e−03	1.000e+00	4.918e−01
CEP19	0.2620941	57	1.725e−02	1.375e−01	2.257e−03	1.000e+00	4.918e−01
TMEM216	0.2968999	54	8.714e−03	9.321e−02	2.456e−03	9.946e−01	4.918e−01
MARCHF4	0.2118844	91	1.435e−02	1.238e−01	2.460e−03	1.000e+00	4.918e−01
COPZ2	0.2881240	57	8.849e−03	9.398e−02	2.887e−03	9.946e−01	4.918e−01
SLC14A2	−0.3020572	118	6.757e−05	4.309e−03	3.069e−03	2.748e−01	4.918e−01
DZIP1	0.3280493	110	2.970e−05	2.450e−03	3.186e−03	2.007e−01	4.918e−01
FXYD6	0.2185245	68	2.965e−02	1.860e−01	3.372e−03	1.000e+00	4.918e−01
FNDC11	0.3917569	98	2.582e−06	5.228e−04	3.602e−03	1.055e−01	4.918e−01
RAB3B	0.3379367	42	8.814e−03	9.382e−02	3.634e−03	9.946e−01	4.918e−01
SAV1	−0.4623103	42	3.395e−04	1.278e−02	3.692e−03	4.731e−01	4.918e−01
RASL11B	0.2680241	54	1.789e−02	1.400e−01	3.851e−03	1.000e+00	4.918e−01
ZHX2	0.2551538	97	2.318e−03	4.210e−02	3.878e−03	7.622e−01	4.918e−01
PHLDB1	0.2122769	111	6.637e−03	7.982e−02	3.909e−03	9.423e−01	4.918e−01
SLC8A3	0.3213759	94	1.595e−04	7.762e−03	3.952e−03	3.777e−01	4.918e−01
CADPS2	0.3171220	100	1.204e−04	6.312e−03	4.016e−03	3.307e−01	4.918e−01
CD84	0.2108018	112	6.769e−03	8.044e−02	4.021e−03	9.423e−01	4.918e−01
ADARB2	−0.2328861	94	6.217e−03	7.642e−02	4.040e−03	9.385e−01	4.918e−01
SORCS1	0.2396231	102	3.335e−03	5.239e−02	4.160e−03	8.229e−01	4.918e−01
CMTR1	−0.2243401	65	2.916e−02	1.838e−01	4.175e−03	1.000e+00	4.918e−01
APCDD1	−0.2857765	91	9.589e−04	2.473e−02	4.234e−03	6.377e−01	4.918e−01
PROKR1	0.2288249	88	9.342e−03	9.681e−02	4.276e−03	1.000e+00	4.918e−01
SPIRE1	−0.1793261	101	2.885e−02	1.828e−01	4.335e−03	1.000e+00	4.918e−01
TNFRSF11B	0.2931201	98	4.351e−04	1.465e−02	4.353e−03	4.935e−01	4.918e−01
DNAH11	0.2388423	137	6.764e−04	1.968e−02	4.364e−03	5.727e−01	4.918e−01

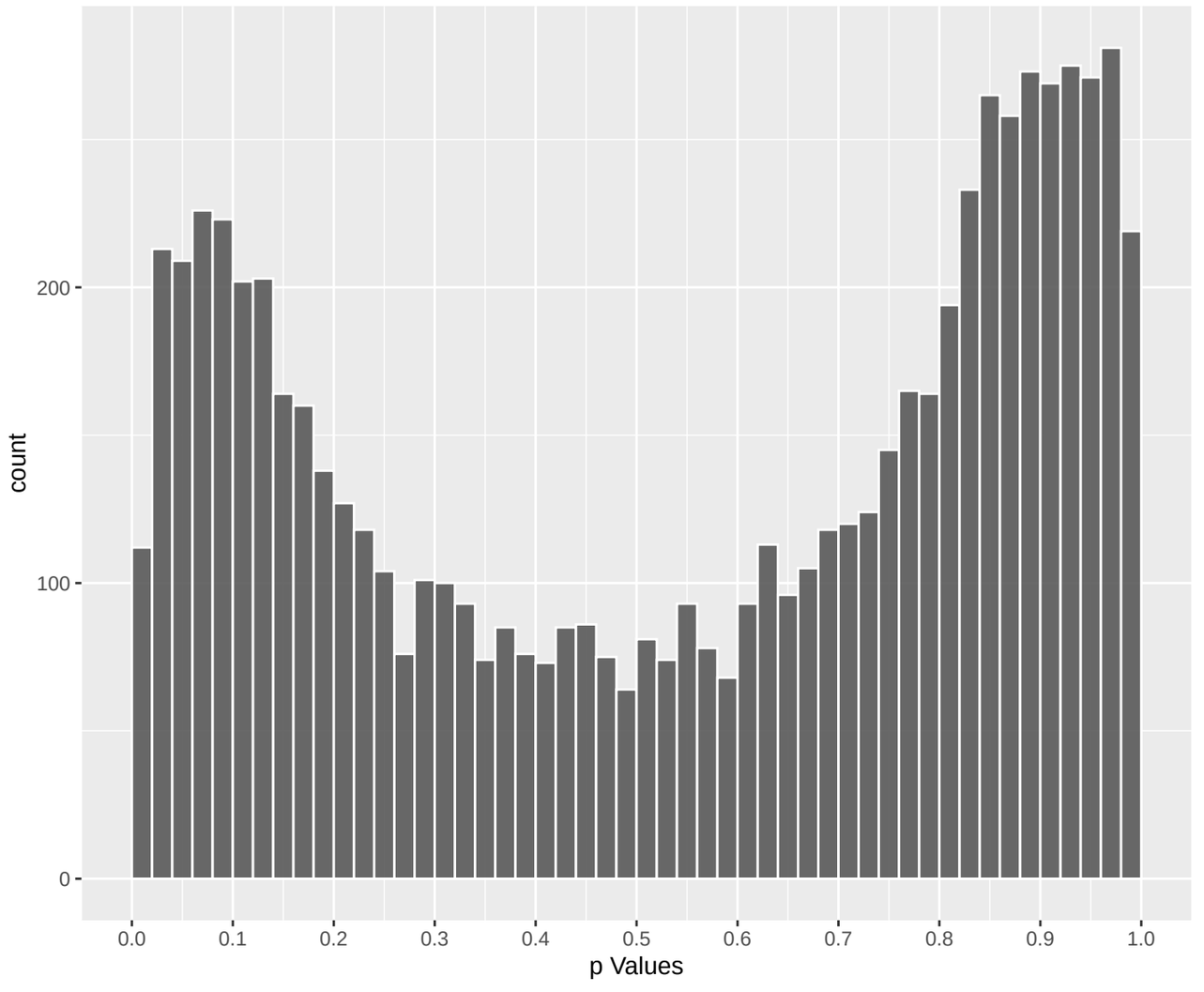
Top genes by Q−Value Permulated

Gene	Rho	N	P	p.adj	permPValue	qValueNoperm	qValuePerm
M6PR	0.2756626	59	1.078e−02	1.047e−01	3.329e−02	1.000e+00	4.918e−01
CFTR	0.3181211	116	3.179e−05	2.561e−03	8.017e−03	2.062e−01	4.918e−01
YBX2	0.3897005	72	6.496e−05	4.251e−03	1.467e−02	2.733e−01	4.918e−01
ITGA3	0.2007961	112	9.895e−03	9.979e−02	1.937e−02	1.000e+00	4.918e−01
KRT33A	−0.2106784	74	2.854e−02	1.818e−01	2.146e−02	1.000e+00	4.918e−01
PGLYRP1	−0.2817490	74	3.405e−03	5.309e−02	1.622e−02	8.263e−01	4.918e−01
MGST1	−0.2914512	76	2.132e−03	3.984e−02	4.142e−02	7.426e−01	4.918e−01
UBR7	0.2715188	93	1.511e−03	3.272e−02	4.486e−03	7.076e−01	4.918e−01
RTN4R	−0.2022418	88	2.160e−02	1.567e−01	1.797e−02	1.000e+00	4.918e−01
CLDN11	0.1635836	41	2.106e−01	5.177e−01	2.880e−02	1.000e+00	4.918e−01
PKP2	0.1337284	103	9.973e−02	3.537e−01	4.710e−02	1.000e+00	4.918e−01
TRIB2	0.1997584	39	1.364e−01	4.186e−01	2.753e−02	1.000e+00	4.918e−01
LMCD1	0.1953246	78	3.699e−02	2.087e−01	5.943e−02	1.000e+00	4.918e−01
ANO8	−0.1701267	92	4.805e−02	2.399e−01	2.950e−02	1.000e+00	4.918e−01
KRT14	0.2076997	88	1.831e−02	1.422e−01	6.174e−02	1.000e+00	4.918e−01
KRT20	0.3226627	93	1.631e−04	7.885e−03	3.515e−02	3.797e−01	4.918e−01
NTN1	0.2406358	36	8.546e−02	3.258e−01	4.412e−02	1.000e+00	4.918e−01
TIGAR	−0.2470831	91	4.301e−03	6.180e−02	4.876e−02	8.822e−01	4.918e−01
FAM107B	−0.1255388	106	1.169e−01	3.851e−01	3.958e−02	1.000e+00	4.918e−01
CDK13	−0.0946497	95	2.636e−01	5.768e−01	4.993e−02	1.000e+00	4.918e−01
FAP	0.1289521	97	1.237e−01	3.961e−01	2.008e−02	1.000e+00	4.918e−01
DMRT3	0.2640984	72	6.795e−03	8.054e−02	5.706e−02	9.423e−01	4.918e−01
PLOD1	0.1822955	95	3.129e−02	1.911e−01	2.888e−02	1.000e+00	4.918e−01
MOGAT2	−0.2664729	98	1.384e−03	3.079e−02	1.693e−02	6.847e−01	4.918e−01
DIMT1	0.1037822	57	3.457e−01	6.490e−01	5.564e−02	1.000e+00	4.918e−01

Positive Rho Permulated



Negative Rho Permulated



Top Positive genes by P−value Permulated

Gene	Rho	N	P	p.adj	permPValue	qValueNoperm	qValuePerm
AC010255	0.2862415	46	1.999e−02	1.496e−01	2.233e−03	1.000e+00	4.918e−01
CEP19	0.2620941	57	1.725e−02	1.375e−01	2.257e−03	1.000e+00	4.918e−01
TMEM216	0.2968999	54	8.714e−03	9.321e−02	2.456e−03	9.946e−01	4.918e−01
MARCHF4	0.2118844	91	1.435e−02	1.238e−01	2.460e−03	1.000e+00	4.918e−01
COPZ2	0.2881240	57	8.849e−03	9.398e−02	2.887e−03	9.946e−01	4.918e−01
DZIP1	0.3280493	110	2.970e−05	2.450e−03	3.186e−03	2.007e−01	4.918e−01
FXYD6	0.2185245	68	2.965e−02	1.860e−01	3.372e−03	1.000e+00	4.918e−01
FNDC11	0.3917569	98	2.582e−06	5.228e−04	3.602e−03	1.055e−01	4.918e−01
RAB3B	0.3379367	42	8.814e−03	9.382e−02	3.634e−03	9.946e−01	4.918e−01
RASL11B	0.2680241	54	1.789e−02	1.400e−01	3.851e−03	1.000e+00	4.918e−01

Top Negative genes by P−value Permulated

Gene	Rho	N	P	p.adj	permPValue	qValueNoperm	qValuePerm
SLC14A2	−0.3020572	118	6.757e−05	4.309e−03	3.069e−03	2.748e−01	4.918e−01
SAV1	−0.4623103	42	3.395e−04	1.278e−02	3.692e−03	4.731e−01	4.918e−01
ADARB2	−0.2328861	94	6.217e−03	7.642e−02	4.040e−03	9.385e−01	4.918e−01
CMTR1	−0.2243401	65	2.916e−02	1.838e−01	4.175e−03	1.000e+00	4.918e−01
APCDD1	−0.2857765	91	9.589e−04	2.473e−02	4.234e−03	6.377e−01	4.918e−01
SPIRE1	−0.1793261	101	2.885e−02	1.828e−01	4.335e−03	1.000e+00	4.918e−01
IQGAP2	−0.1877200	123	1.143e−02	1.089e−01	4.458e−03	1.000e+00	4.918e−01
PRODH	−0.2070884	110	8.388e−03	9.150e−02	4.640e−03	9.946e−01	4.918e−01
SLC26A3	−0.2552085	107	1.359e−03	3.050e−02	4.656e−03	6.825e−01	4.918e−01
COMT	−0.2792737	95	9.707e−04	2.495e−02	4.764e−03	6.397e−01	4.918e−01