

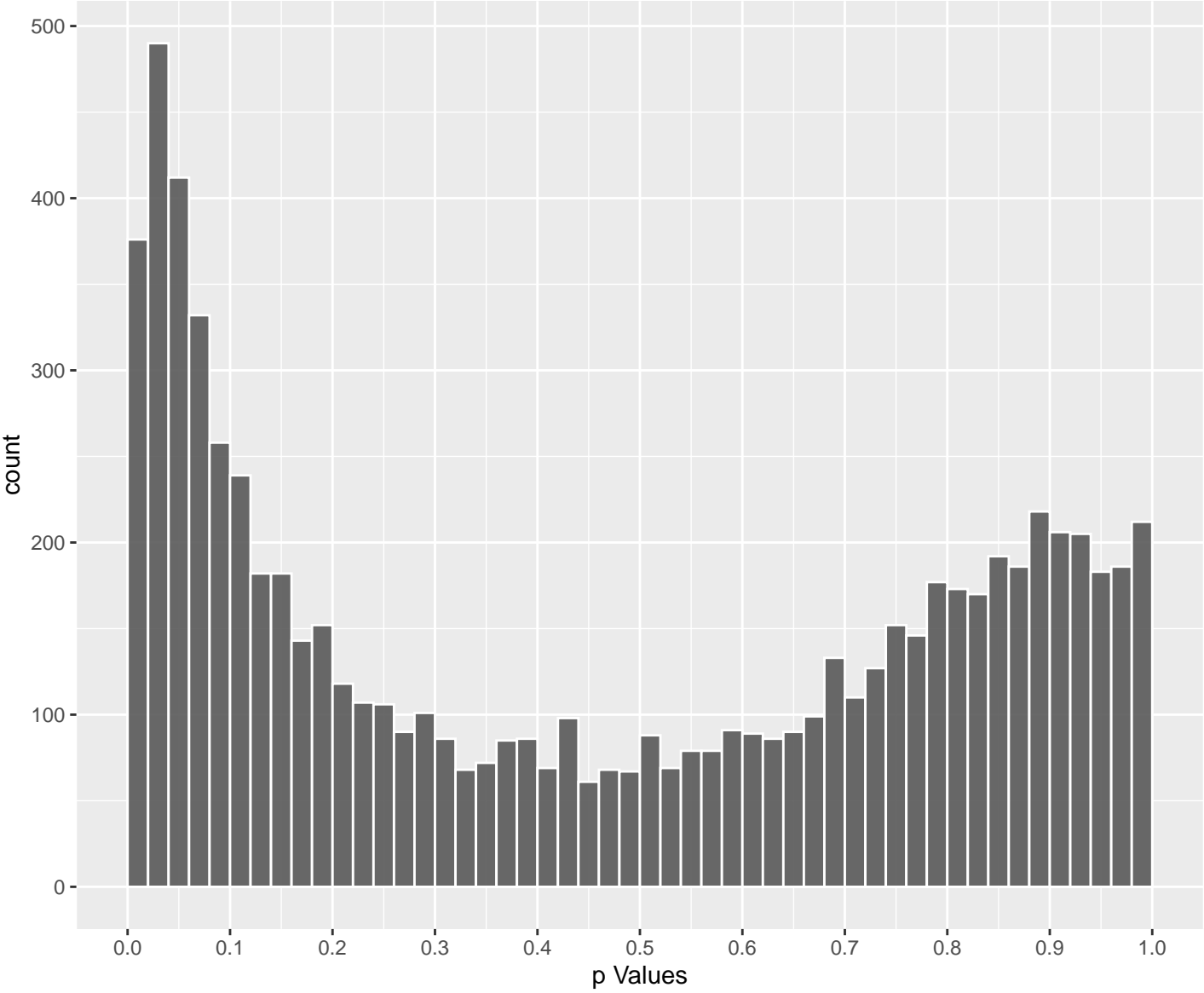
Top genes by P–value Permulated

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

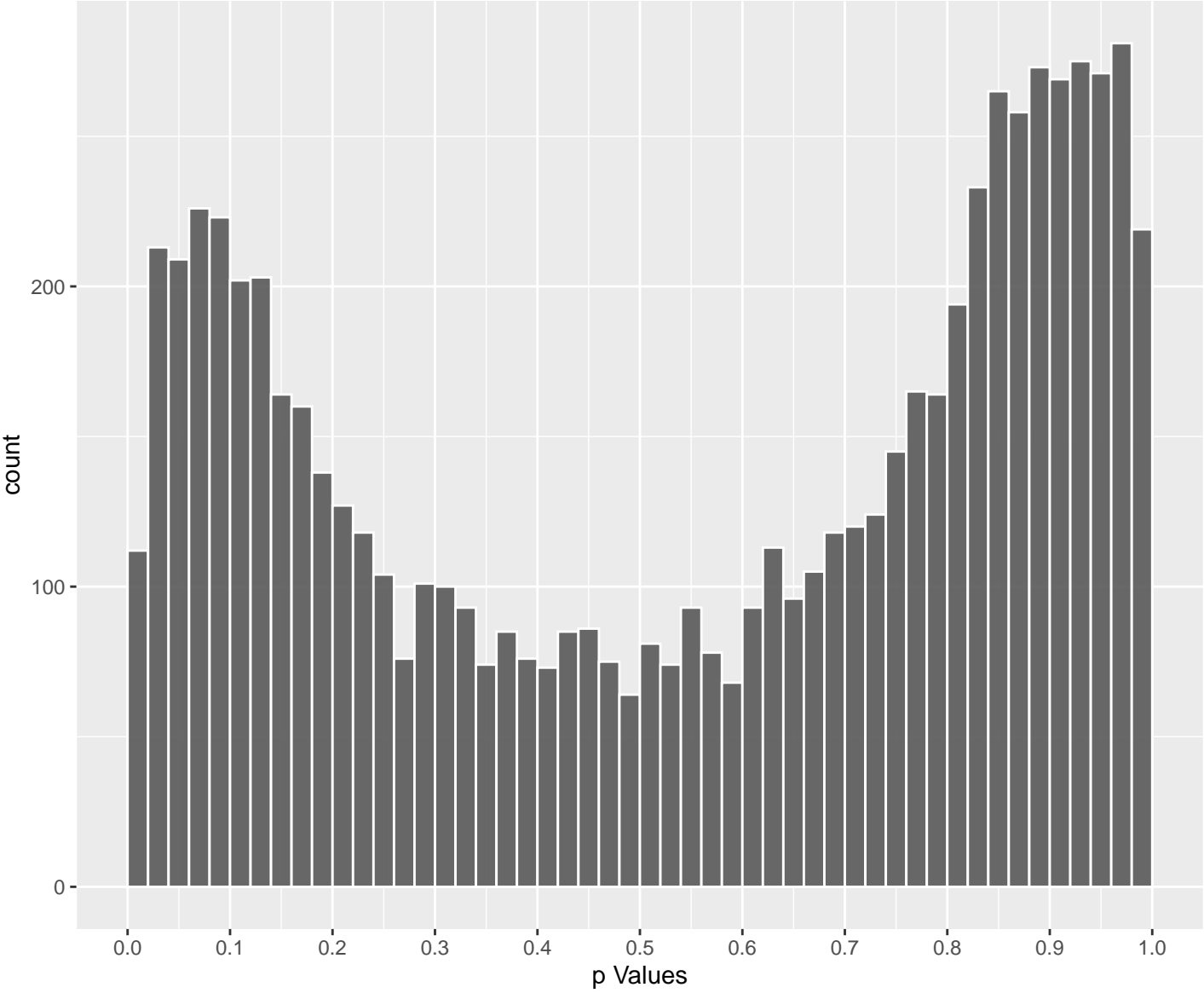
Top genes by Q–Value Permulated

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