

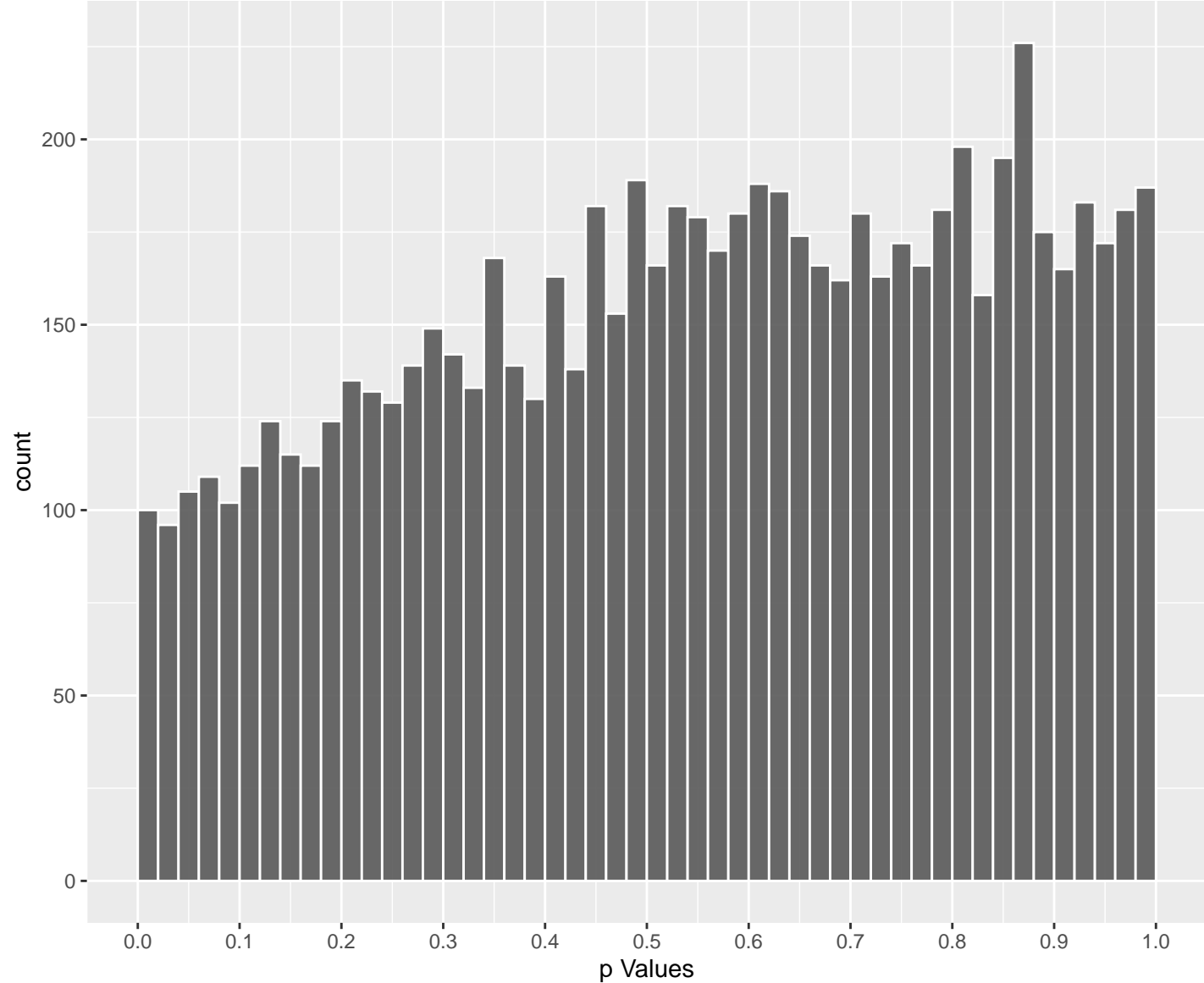
Top genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PHF5A	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
PTCD3	5.557042	8.231524e-08	4.446e-04	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ACTC1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
H4C2	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
UBE2G1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ABCB4	-5.054135	1.297036e-06	2.328e-03	2.089e-04	2.089e-04	1.000e+00	5.371e-01
ANXA11	-3.470489	1.558537e-03	1.010e-01	3.019e-04	3.019e-04	1.000e+00	5.371e-01
BDNF	-4.856071	3.592126e-06	3.025e-03	3.280e-04	3.280e-04	1.000e+00	5.371e-01
KLHDC2	-4.495795	2.079314e-05	8.640e-03	3.511e-04	3.511e-04	1.000e+00	5.371e-01
CTNND1	-5.843195	1.536268e-08	1.245e-04	3.830e-04	3.830e-04	1.000e+00	5.371e-01
PKIB	-4.211346	7.615610e-05	1.928e-02	3.882e-04	3.882e-04	1.000e+00	5.371e-01
TMEM116	5.132478	8.578565e-07	1.815e-03	4.020e-04	4.020e-04	1.000e+00	5.371e-01
RIMKLA	3.433569	1.787073e-03	1.078e-01	4.309e-04	4.309e-04	1.000e+00	5.371e-01
RNASE9	3.358547	2.350599e-03	1.204e-01	5.437e-04	5.437e-04	1.000e+00	6.293e-01
DHX58	-3.234726	3.652786e-03	1.537e-01	7.034e-04	7.034e-04	1.000e+00	6.482e-01
TBX21	-3.382143	2.157682e-03	1.166e-01	7.248e-04	7.248e-04	1.000e+00	6.482e-01
PLPP3	-3.638144	8.238288e-04	6.990e-02	7.309e-04	7.309e-04	1.000e+00	6.482e-01
ARMT1	4.255301	6.263051e-05	1.720e-02	7.724e-04	7.724e-04	1.000e+00	6.482e-01
CSAD	-3.041026	7.073214e-03	2.131e-01	8.011e-04	8.011e-04	1.000e+00	6.482e-01
KLHL12	-4.048121	1.548911e-04	2.988e-02	8.572e-04	8.572e-04	1.000e+00	6.482e-01
JAK1	-4.074511	1.383337e-04	2.768e-02	8.683e-04	8.683e-04	1.000e+00	6.482e-01
WIPF3	3.130740	5.230994e-03	1.839e-01	8.800e-04	8.800e-04	1.000e+00	6.482e-01
PCDHA4	-3.133306	5.185467e-03	1.839e-01	9.370e-04	9.370e-04	1.000e+00	6.602e-01
SPAG5	4.143099	1.027932e-04	2.346e-02	1.191e-03	1.191e-03	1.000e+00	8.042e-01
NCOR1	4.368033	3.761123e-05	1.325e-02	1.333e-03	1.333e-03	1.000e+00	8.643e-01

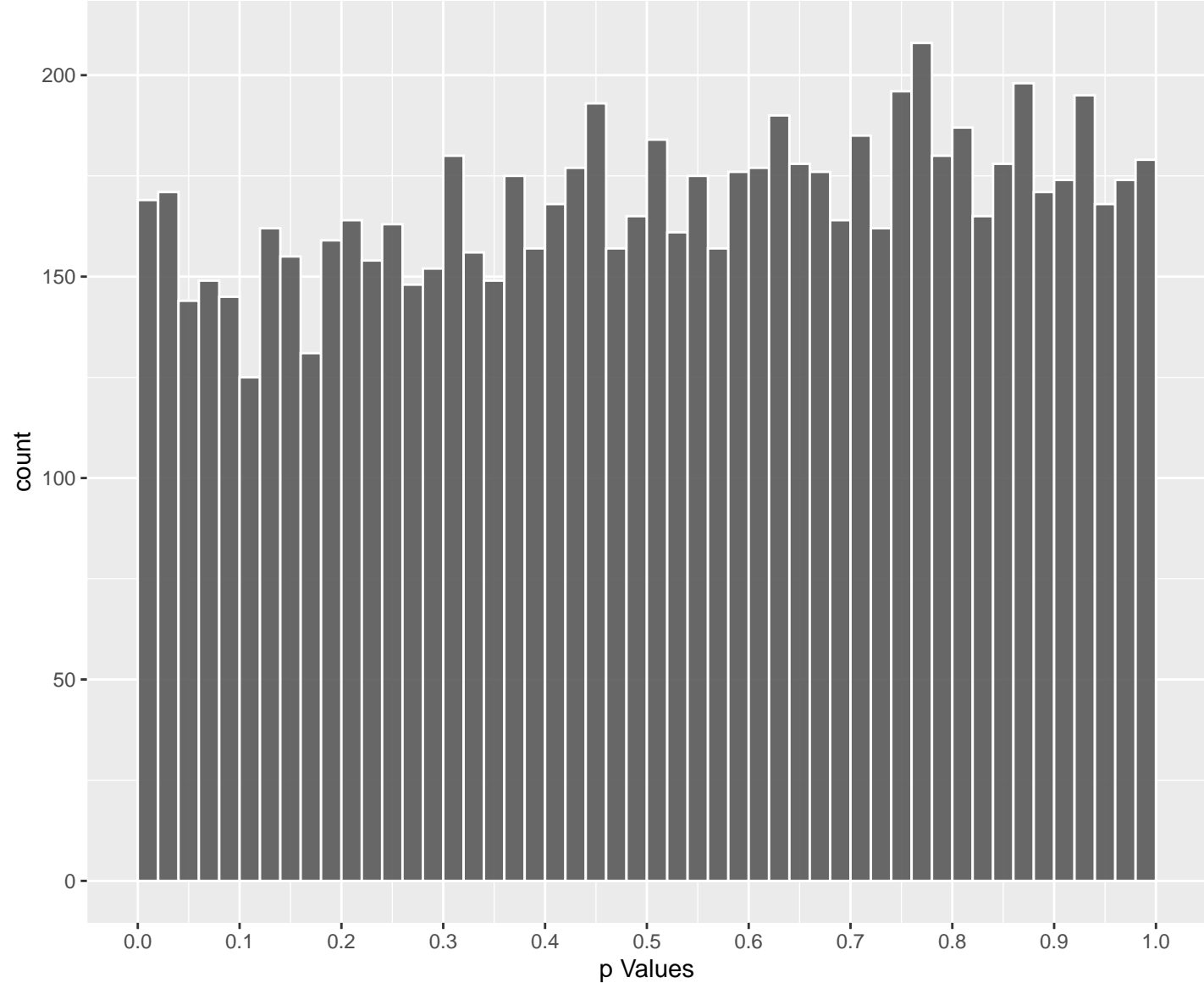
Top genes by Q–Value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PHF5A	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
PTCD3	5.557042	8.231524e-08	4.446e-04	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ACTC1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
H4C2	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
UBE2G1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ABCB4	-5.054135	1.297036e-06	2.328e-03	2.089e-04	2.089e-04	1.000e+00	5.371e-01
KLHDC2	-4.495795	2.079314e-05	8.640e-03	3.511e-04	3.511e-04	1.000e+00	5.371e-01
PKIB	-4.211346	7.615610e-05	1.928e-02	3.882e-04	3.882e-04	1.000e+00	5.371e-01
CTNND1	-5.843195	1.536268e-08	1.245e-04	3.830e-04	3.830e-04	1.000e+00	5.371e-01
RIMKLA	3.433569	1.787073e-03	1.078e-01	4.309e-04	4.309e-04	1.000e+00	5.371e-01
ANXA11	-3.470489	1.558537e-03	1.010e-01	3.019e-04	3.019e-04	1.000e+00	5.371e-01
BDNF	-4.856071	3.592126e-06	3.025e-03	3.280e-04	3.280e-04	1.000e+00	5.371e-01
TMEM116	5.132478	8.578565e-07	1.815e-03	4.020e-04	4.020e-04	1.000e+00	5.371e-01
RNASE9	3.358547	2.350599e-03	1.204e-01	5.437e-04	5.437e-04	1.000e+00	6.293e-01
TBX21	-3.382143	2.157682e-03	1.166e-01	7.248e-04	7.248e-04	1.000e+00	6.482e-01
DHX58	-3.234726	3.652786e-03	1.537e-01	7.034e-04	7.034e-04	1.000e+00	6.482e-01
CSAD	-3.041026	7.073214e-03	2.131e-01	8.011e-04	8.011e-04	1.000e+00	6.482e-01
KLHL12	-4.048121	1.548911e-04	2.988e-02	8.572e-04	8.572e-04	1.000e+00	6.482e-01
ARMT1	4.255301	6.263051e-05	1.720e-02	7.724e-04	7.724e-04	1.000e+00	6.482e-01
PLPP3	-3.638144	8.238288e-04	6.990e-02	7.309e-04	7.309e-04	1.000e+00	6.482e-01
WIPF3	3.130740	5.230994e-03	1.839e-01	8.800e-04	8.800e-04	1.000e+00	6.482e-01
JAK1	-4.074511	1.383337e-04	2.768e-02	8.683e-04	8.683e-04	1.000e+00	6.482e-01
PCDHA4	-3.133306	5.185467e-03	1.839e-01	9.370e-04	9.370e-04	1.000e+00	6.602e-01
SPAG5	4.143099	1.027932e-04	2.346e-02	1.191e-03	1.191e-03	1.000e+00	8.042e-01
NCOR1	4.368033	3.761123e-05	1.325e-02	1.333e-03	1.333e-03	1.000e+00	8.643e-01

Positive Rho Permulated



Negative Rho Permulated



Top Positive genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PTCD3	5.557042	8.231524e-08	4.446e-04	0.000e+00	0.000e+00	1.000e+00	0.000e+00
TMEM116	5.132478	8.578565e-07	1.815e-03	4.020e-04	4.020e-04	1.000e+00	5.371e-01
RIMKLA	3.433569	1.787073e-03	1.078e-01	4.309e-04	4.309e-04	1.000e+00	5.371e-01
RNASE9	3.358547	2.350599e-03	1.204e-01	5.437e-04	5.437e-04	1.000e+00	6.293e-01
ARMT1	4.255301	6.263051e-05	1.720e-02	7.724e-04	7.724e-04	1.000e+00	6.482e-01
WIPF3	3.130740	5.230994e-03	1.839e-01	8.800e-04	8.800e-04	1.000e+00	6.482e-01
SPAG5	4.143099	1.027932e-04	2.346e-02	1.191e-03	1.191e-03	1.000e+00	8.042e-01
NCOR1	4.368033	3.761123e-05	1.325e-02	1.333e-03	1.333e-03	1.000e+00	8.643e-01
TRDMT1	3.013170	7.756032e-03	2.205e-01	1.559e-03	1.559e-03	1.000e+00	9.718e-01
SUPT4H1	2.952927	9.443280e-03	2.441e-01	1.744e-03	1.744e-03	1.000e+00	1.000e+00

Top Negative genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
ABCB4	-5.054135	1.297036e-06	2.328e-03	2.089e-04	2.089e-04	1.000e+00	5.371e-01
ANXA11	-3.470489	1.558537e-03	1.010e-01	3.019e-04	3.019e-04	1.000e+00	5.371e-01
BDNF	-4.856071	3.592126e-06	3.025e-03	3.280e-04	3.280e-04	1.000e+00	5.371e-01
KLHDC2	-4.495795	2.079314e-05	8.640e-03	3.511e-04	3.511e-04	1.000e+00	5.371e-01
CTNND1	-5.843195	1.536268e-08	1.245e-04	3.830e-04	3.830e-04	1.000e+00	5.371e-01
PKIB	-4.211346	7.615610e-05	1.928e-02	3.882e-04	3.882e-04	1.000e+00	5.371e-01
DHX58	-3.234726	3.652786e-03	1.537e-01	7.034e-04	7.034e-04	1.000e+00	6.482e-01
TBX21	-3.382143	2.157682e-03	1.166e-01	7.248e-04	7.248e-04	1.000e+00	6.482e-01
PLPP3	-3.638144	8.238288e-04	6.990e-02	7.309e-04	7.309e-04	1.000e+00	6.482e-01
CSAD	-3.041026	7.073214e-03	2.131e-01	8.011e-04	8.011e-04	1.000e+00	6.482e-01