

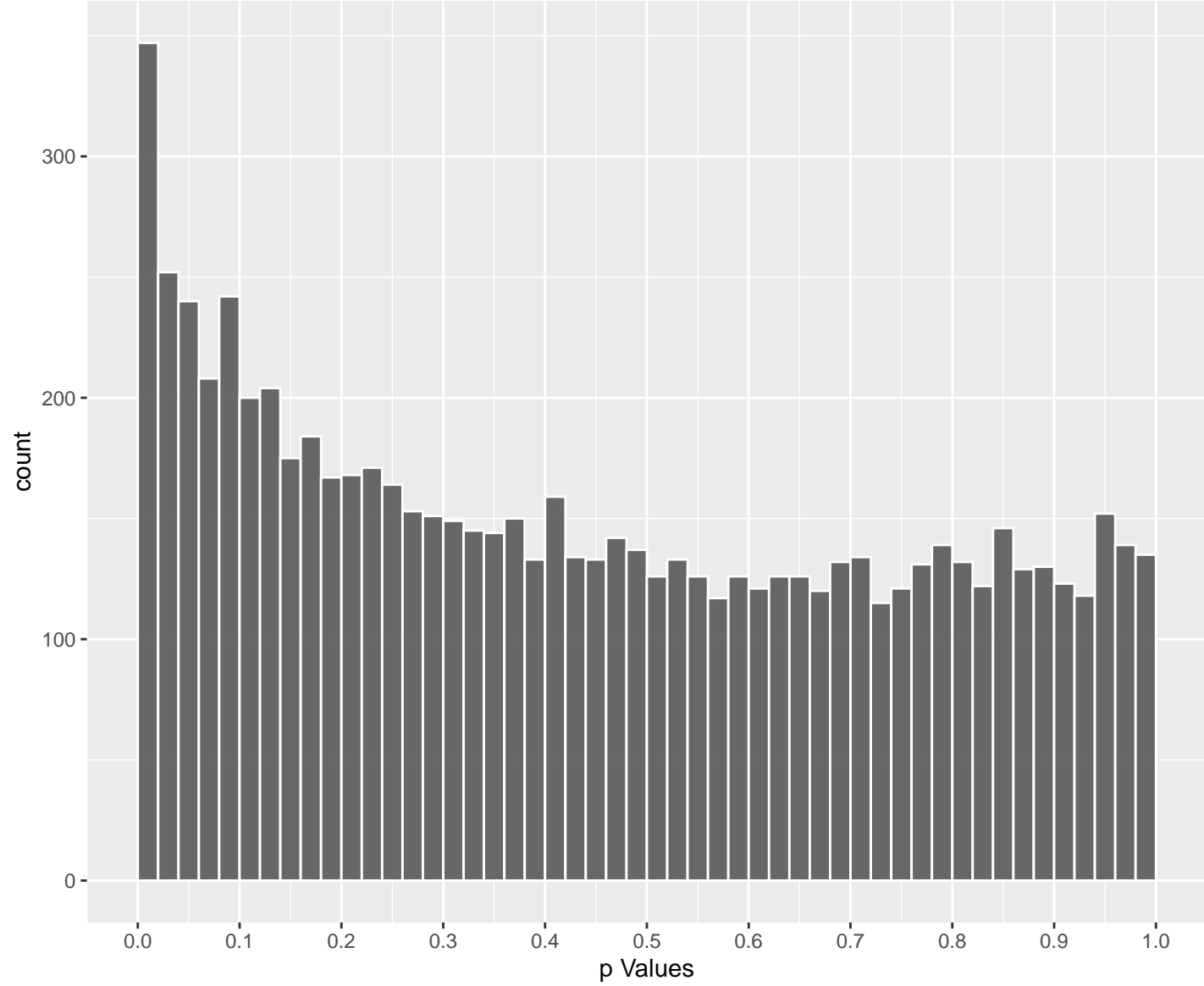
Top genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PPFIA3	−5.484826	1.241630e−07	5.382e−05	0.000e+00	0.000e+00	2.295e−02	0.000e+00
CHMP1B	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ANKRD35	6.627095	1.027075e−10	2.377e−07	1.944e−05	1.944e−05	5.502e−04	9.733e−02
RAB8A	−3.921970	2.634834e−04	1.274e−02	3.444e−05	3.444e−05	6.049e−01	1.076e−01
DNAH2	8.123462	1.359214e−15	2.202e−11	3.583e−05	3.583e−05	3.568e−07	1.076e−01
ABCB1	−4.422030	2.933337e−05	2.898e−03	4.486e−05	4.486e−05	2.845e−01	1.112e−01
C1QTNF8	4.770376	5.516465e−06	8.714e−04	5.892e−05	5.892e−05	1.371e−01	1.112e−01
HAS2	−4.641299	1.038676e−05	1.389e−03	5.919e−05	5.919e−05	1.844e−01	1.112e−01
RGPD8	−4.769531	5.539656e−06	8.714e−04	9.069e−05	9.069e−05	1.371e−01	1.514e−01
OVOL1	4.076234	1.373129e−04	8.240e−03	1.179e−04	1.179e−04	4.923e−01	1.539e−01
TACR2	5.843973	1.529109e−08	1.032e−05	1.314e−04	1.314e−04	6.969e−03	1.539e−01
SDS	−4.446206	2.622010e−05	2.639e−03	1.417e−04	1.417e−04	2.655e−01	1.539e−01
CFAP45	5.595518	6.598918e−08	3.449e−05	1.471e−04	1.471e−04	1.790e−02	1.539e−01
FNBP4	−5.508997	1.082651e−07	4.873e−05	1.484e−04	1.484e−04	2.193e−02	1.539e−01
UBR2	−4.881997	3.150512e−06	5.867e−04	1.654e−04	1.654e−04	1.089e−01	1.539e−01
PROM1	−6.306251	8.576256e−10	1.390e−06	1.666e−04	1.666e−04	1.910e−03	1.539e−01
ARHGEF12	5.174211	6.866275e−07	2.139e−04	1.901e−04	1.901e−04	6.666e−02	1.539e−01
ABHD11	−5.146905	7.944563e−07	2.384e−04	2.050e−04	2.050e−04	7.132e−02	1.539e−01
HSD17B6	−4.274801	5.739255e−05	4.629e−03	2.183e−04	2.183e−04	3.682e−01	1.539e−01
ELL	−5.398452	2.016556e−07	7.969e−05	2.272e−04	2.272e−04	3.149e−02	1.539e−01
SLC10A6	−4.962615	2.086510e−06	4.448e−04	2.329e−04	2.329e−04	9.483e−02	1.539e−01
ADAM2	−5.354728	2.570561e−07	9.916e−05	2.346e−04	2.346e−04	3.825e−02	1.539e−01
VPS11	4.185160	8.548963e−05	5.894e−03	2.437e−04	2.437e−04	4.051e−01	1.539e−01
CLCNKA	−5.287575	3.718461e−07	1.339e−04	2.459e−04	2.459e−04	4.820e−02	1.539e−01
ZNF446	−4.475458	2.287432e−05	2.376e−03	2.713e−04	2.713e−04	2.467e−01	1.588e−01

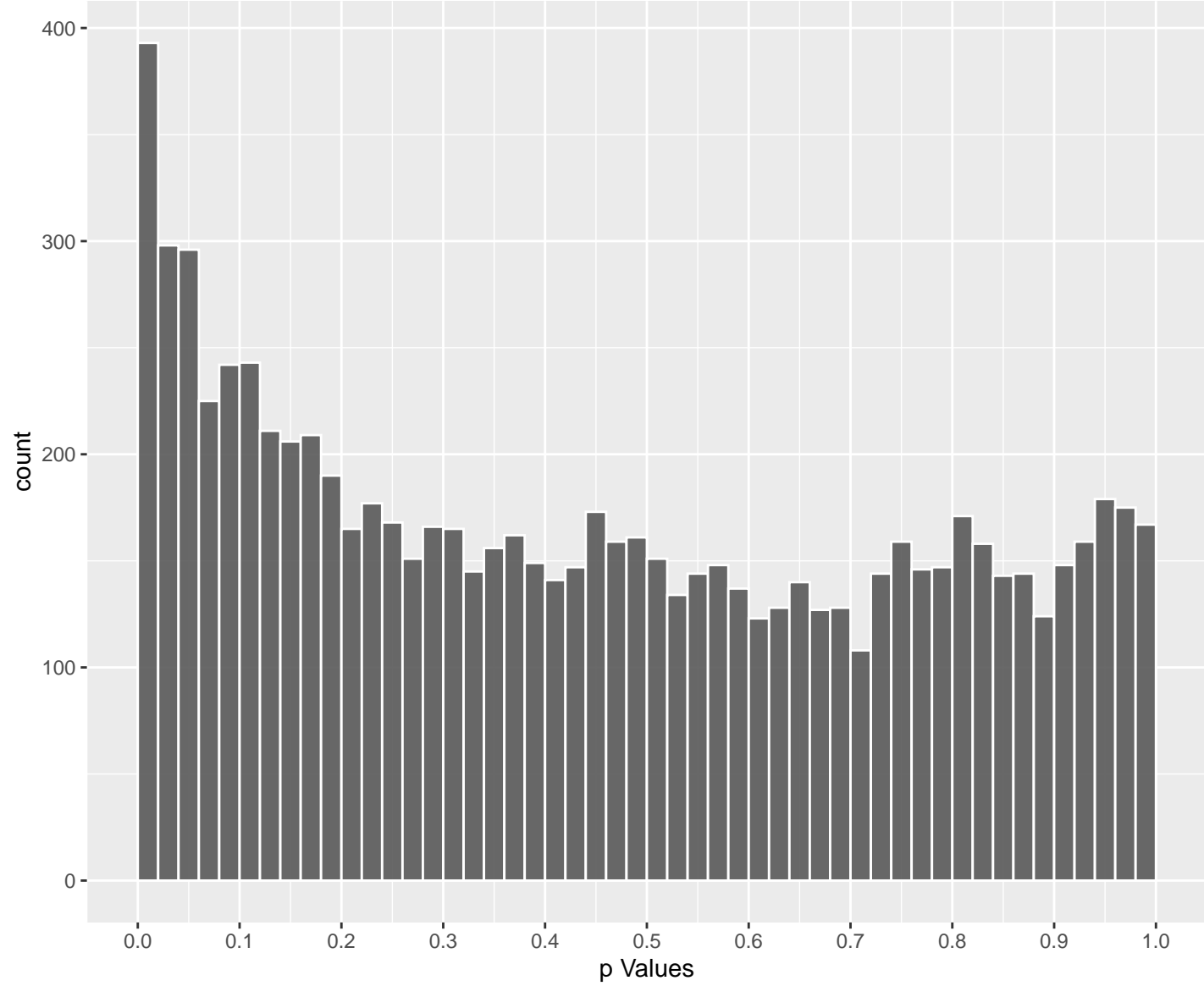
Top genes by Q–Value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PPFIA3	−5.484826	1.241630e−07	5.382e−05	0.000e+00	0.000e+00	2.295e−02	0.000e+00
CHMP1B	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ANKRD35	6.627095	1.027075e−10	2.377e−07	1.944e−05	1.944e−05	5.502e−04	9.733e−02
RAB8A	−3.921970	2.634834e−04	1.274e−02	3.444e−05	3.444e−05	6.049e−01	1.076e−01
DNAH2	8.123462	1.359214e−15	2.202e−11	3.583e−05	3.583e−05	3.568e−07	1.076e−01
ABCB1	−4.422030	2.933337e−05	2.898e−03	4.486e−05	4.486e−05	2.845e−01	1.112e−01
HAS2	−4.641299	1.038676e−05	1.389e−03	5.919e−05	5.919e−05	1.844e−01	1.112e−01
C1QTNF8	4.770376	5.516465e−06	8.714e−04	5.892e−05	5.892e−05	1.371e−01	1.112e−01
RGPD8	−4.769531	5.539656e−06	8.714e−04	9.069e−05	9.069e−05	1.371e−01	1.514e−01
ABHD11	−5.146905	7.944563e−07	2.384e−04	2.050e−04	2.050e−04	7.132e−02	1.539e−01
SDS	−4.446206	2.622010e−05	2.639e−03	1.417e−04	1.417e−04	2.655e−01	1.539e−01
ELL	−5.398452	2.016556e−07	7.969e−05	2.272e−04	2.272e−04	3.149e−02	1.539e−01
FNBP4	−5.508997	1.082651e−07	4.873e−05	1.484e−04	1.484e−04	2.193e−02	1.539e−01
ADAM2	−5.354728	2.570561e−07	9.916e−05	2.346e−04	2.346e−04	3.825e−02	1.539e−01
SLC10A6	−4.962615	2.086510e−06	4.448e−04	2.329e−04	2.329e−04	9.483e−02	1.539e−01
CLCNKA	−5.287575	3.718461e−07	1.339e−04	2.459e−04	2.459e−04	4.820e−02	1.539e−01
OVOL1	4.076234	1.373129e−04	8.240e−03	1.179e−04	1.179e−04	4.923e−01	1.539e−01
CFAP45	5.595518	6.598918e−08	3.449e−05	1.471e−04	1.471e−04	1.790e−02	1.539e−01
UBR2	−4.881997	3.150512e−06	5.867e−04	1.654e−04	1.654e−04	1.089e−01	1.539e−01
TACR2	5.843973	1.529109e−08	1.032e−05	1.314e−04	1.314e−04	6.969e−03	1.539e−01
ARHGEF12	5.174211	6.866275e−07	2.139e−04	1.901e−04	1.901e−04	6.666e−02	1.539e−01
PROM1	−6.306251	8.576256e−10	1.390e−06	1.666e−04	1.666e−04	1.910e−03	1.539e−01
HSD17B6	−4.274801	5.739255e−05	4.629e−03	2.183e−04	2.183e−04	3.682e−01	1.539e−01
VPS11	4.185160	8.548963e−05	5.894e−03	2.437e−04	2.437e−04	4.051e−01	1.539e−01
PDCL	4.634848	1.071601e−05	1.412e−03	3.080e−04	3.080e−04	1.859e−01	1.588e−01

Positive Rho Permulated



Negative Rho Permulated



Top Positive genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
ANKRD35	6.627095	1.027075e−10	2.377e−07	1.944e−05	1.944e−05	5.502e−04	9.733e−02
DNAH2	8.123462	1.359214e−15	2.202e−11	3.583e−05	3.583e−05	3.568e−07	1.076e−01
C1QTNF8	4.770376	5.516465e−06	8.714e−04	5.892e−05	5.892e−05	1.371e−01	1.112e−01
OVOL1	4.076234	1.373129e−04	8.240e−03	1.179e−04	1.179e−04	4.923e−01	1.539e−01
TACR2	5.843973	1.529109e−08	1.032e−05	1.314e−04	1.314e−04	6.969e−03	1.539e−01
CFAP45	5.595518	6.598918e−08	3.449e−05	1.471e−04	1.471e−04	1.790e−02	1.539e−01
ARHGEF12	5.174211	6.866275e−07	2.139e−04	1.901e−04	1.901e−04	6.666e−02	1.539e−01
VPS11	4.185160	8.548963e−05	5.894e−03	2.437e−04	2.437e−04	4.051e−01	1.539e−01
SFTPA1	4.345771	4.163610e−05	3.627e−03	3.058e−04	3.058e−04	3.159e−01	1.588e−01
PDCL	4.634848	1.071601e−05	1.412e−03	3.080e−04	3.080e−04	1.859e−01	1.588e−01

Top Negative genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PPFIA3	−5.484826	1.241630e−07	5.382e−05	0.000e+00	0.000e+00	2.295e−02	0.000e+00
RAB8A	−3.921970	2.634834e−04	1.274e−02	3.444e−05	3.444e−05	6.049e−01	1.076e−01
ABCB1	−4.422030	2.933337e−05	2.898e−03	4.486e−05	4.486e−05	2.845e−01	1.112e−01
HAS2	−4.641299	1.038676e−05	1.389e−03	5.919e−05	5.919e−05	1.844e−01	1.112e−01
RGPD8	−4.769531	5.539656e−06	8.714e−04	9.069e−05	9.069e−05	1.371e−01	1.514e−01
SDS	−4.446206	2.622010e−05	2.639e−03	1.417e−04	1.417e−04	2.655e−01	1.539e−01
FNBP4	−5.508997	1.082651e−07	4.873e−05	1.484e−04	1.484e−04	2.193e−02	1.539e−01
UBR2	−4.881997	3.150512e−06	5.867e−04	1.654e−04	1.654e−04	1.089e−01	1.539e−01
PROM1	−6.306251	8.576256e−10	1.390e−06	1.666e−04	1.666e−04	1.910e−03	1.539e−01
ABHD11	−5.146905	7.944563e−07	2.384e−04	2.050e−04	2.050e−04	7.132e−02	1.539e−01