

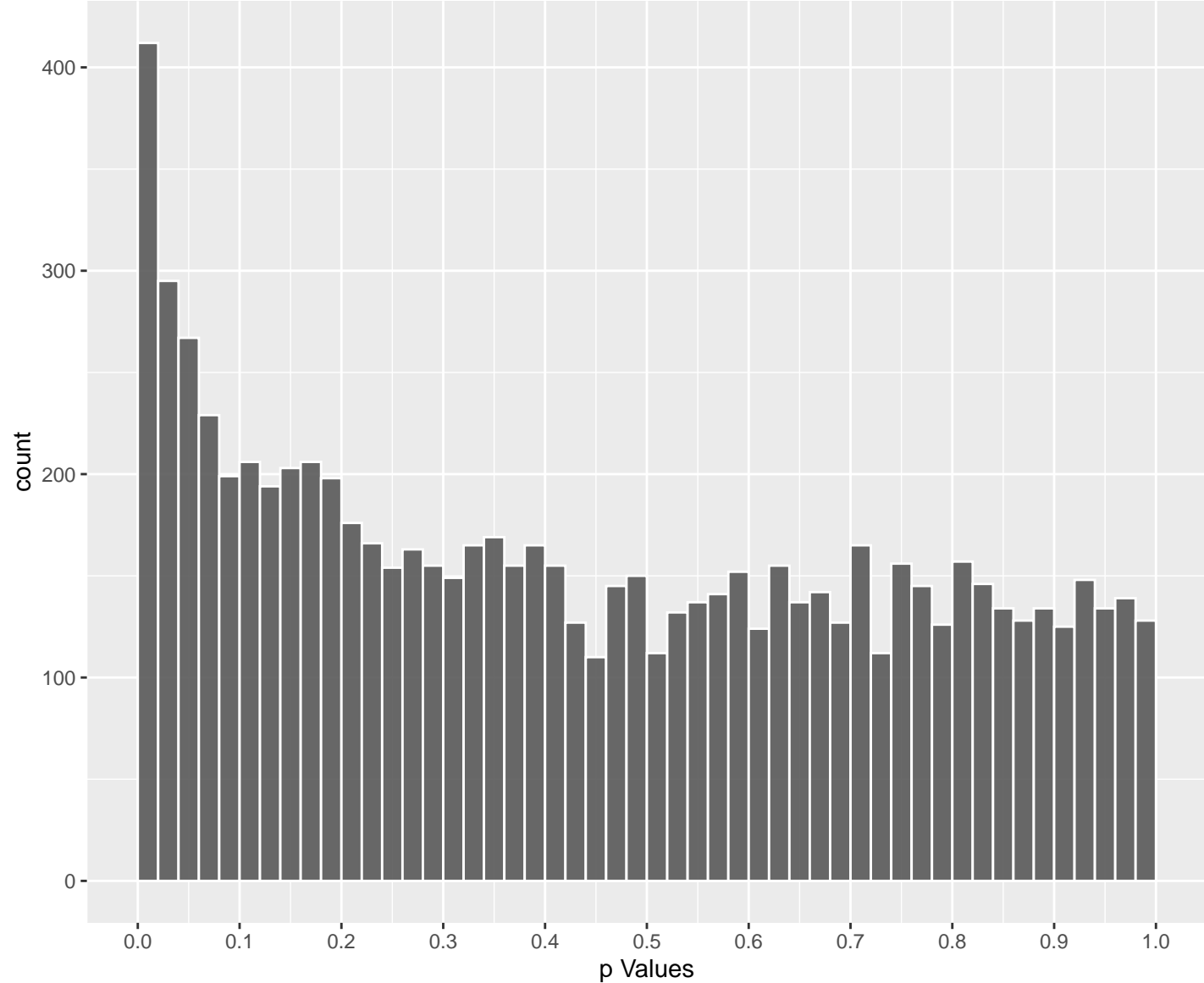
Top genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PANK3	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
RPL8	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
YPEL5	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
H3C1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ZFYVE9	6.488004	2.609429e-10	8.456e-07	6.886e-06	6.886e-06	2.740e-03	1.831e-02
CAPN8	-7.341996	6.312949e-13	5.114e-09	3.932e-05	3.932e-05	4.143e-05	8.391e-02
NLRP9	4.835339	3.987575e-06	6.999e-04	4.537e-05	4.537e-05	1.219e-01	8.391e-02
CADPS2	-4.440172	2.696612e-05	2.253e-03	5.049e-05	5.049e-05	1.872e-01	8.391e-02
GGTLC3	4.899174	2.887218e-06	5.921e-04	6.558e-05	6.558e-05	1.176e-01	9.688e-02
PTPRB	5.553124	8.418288e-08	6.820e-05	8.774e-05	8.774e-05	5.525e-02	1.167e-01
C7orf57	-5.906952	1.045484e-08	1.412e-05	1.052e-04	1.052e-04	1.906e-02	1.272e-01
NIPSNAP1	4.126133	1.106740e-04	6.336e-03	1.288e-04	1.288e-04	3.628e-01	1.296e-01
OFD1	-6.149700	2.328884e-09	4.193e-06	1.389e-04	1.389e-04	7.547e-03	1.296e-01
PYGM	-5.631110	5.371611e-08	5.213e-05	1.494e-04	1.494e-04	4.968e-02	1.296e-01
ACIN1	5.435539	1.638927e-07	1.155e-04	1.872e-04	1.872e-04	7.473e-02	1.296e-01
GTSF1	-3.176876	4.466126e-03	7.376e-02	1.873e-04	1.873e-04	1.000e+00	1.296e-01
EVPL	-6.330639	7.324434e-10	1.695e-06	1.922e-04	1.922e-04	3.924e-03	1.296e-01
CLIC3	-4.761165	5.774365e-06	8.664e-04	2.036e-04	2.036e-04	1.249e-01	1.296e-01
CALHM2	-4.843225	3.832456e-06	6.943e-04	2.124e-04	2.124e-04	1.219e-01	1.296e-01
TPX2	4.311389	4.866975e-05	3.568e-03	2.248e-04	2.248e-04	2.616e-01	1.296e-01
CAB39L	-3.639186	8.205050e-04	2.417e-02	2.337e-04	2.337e-04	7.121e-01	1.296e-01
POF1B	-5.112881	9.518477e-07	3.084e-04	2.415e-04	2.415e-04	9.995e-02	1.296e-01
MAP4K3	3.900434	2.880617e-04	1.197e-02	2.424e-04	2.424e-04	4.914e-01	1.296e-01
SGMS1	-4.549464	1.613482e-05	1.623e-03	2.445e-04	2.445e-04	1.610e-01	1.296e-01
EIF4E1B	4.714582	7.266219e-06	9.571e-04	2.617e-04	2.617e-04	1.249e-01	1.296e-01

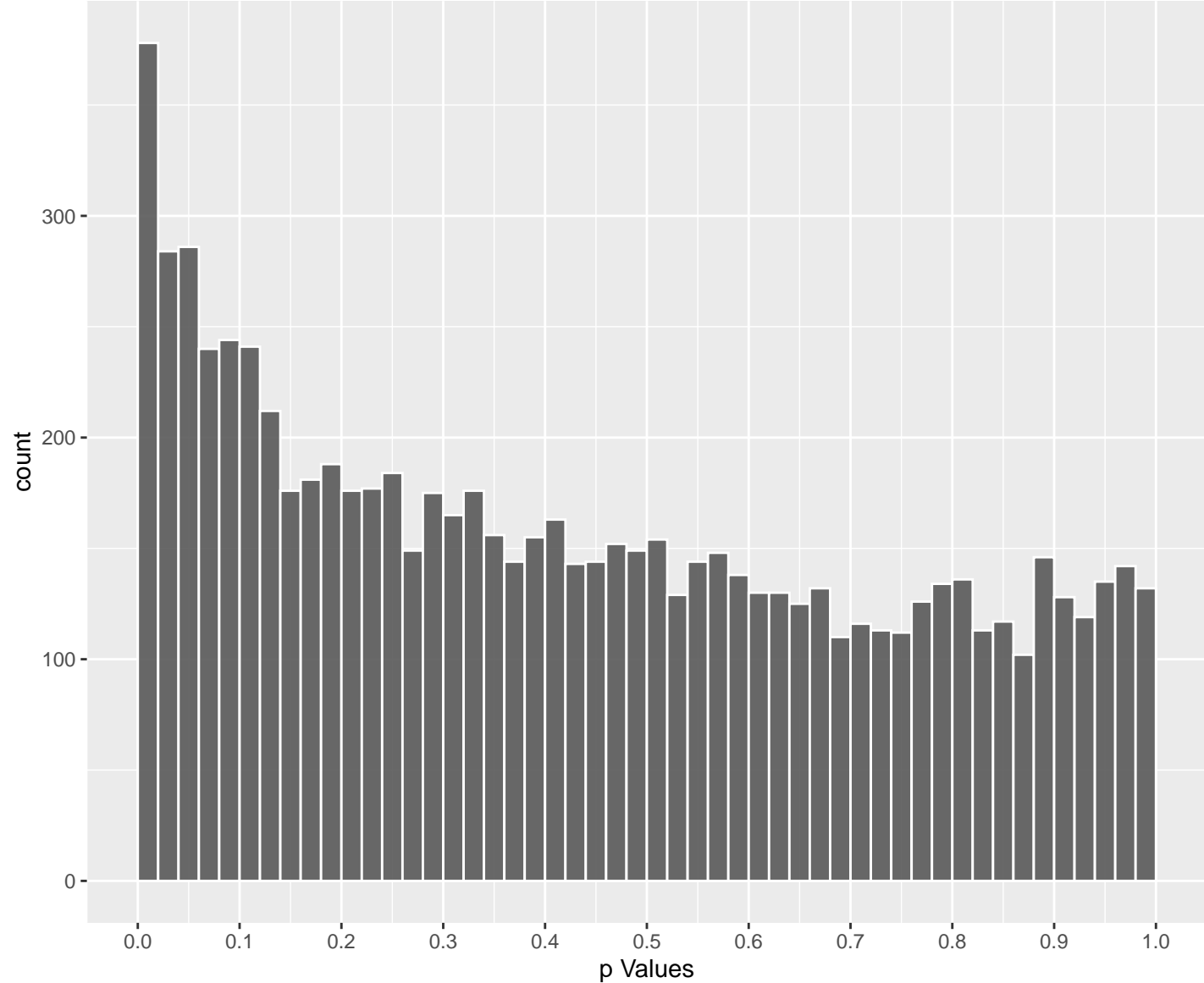
Top genes by Q–Value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PANK3	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
RPL8	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
YPEL5	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
H3C1	0.000000	1.000000e+00	1.000e+00	0.000e+00	0.000e+00	1.000e+00	0.000e+00
ZFYVE9	6.488004	2.609429e-10	8.456e-07	6.886e-06	6.886e-06	2.740e-03	1.831e-02
NLRP9	4.835339	3.987575e-06	6.999e-04	4.537e-05	4.537e-05	1.219e-01	8.391e-02
CAPN8	-7.341996	6.312949e-13	5.114e-09	3.932e-05	3.932e-05	4.143e-05	8.391e-02
CADPS2	-4.440172	2.696612e-05	2.253e-03	5.049e-05	5.049e-05	1.872e-01	8.391e-02
GGTLC3	4.899174	2.887218e-06	5.921e-04	6.558e-05	6.558e-05	1.176e-01	9.688e-02
PTPRB	5.553124	8.418288e-08	6.820e-05	8.774e-05	8.774e-05	5.525e-02	1.167e-01
C7orf57	-5.906952	1.045484e-08	1.412e-05	1.052e-04	1.052e-04	1.906e-02	1.272e-01
PYGM	-5.631110	5.371611e-08	5.213e-05	1.494e-04	1.494e-04	4.968e-02	1.296e-01
NIPSNAP1	4.126133	1.106740e-04	6.336e-03	1.288e-04	1.288e-04	3.628e-01	1.296e-01
ACIN1	5.435539	1.638927e-07	1.155e-04	1.872e-04	1.872e-04	7.473e-02	1.296e-01
MAP4K3	3.900434	2.880617e-04	1.197e-02	2.424e-04	2.424e-04	4.914e-01	1.296e-01
RAG1	-4.341945	4.236811e-05	3.269e-03	3.112e-04	3.112e-04	2.496e-01	1.296e-01
TPX2	4.311389	4.866975e-05	3.568e-03	2.248e-04	2.248e-04	2.616e-01	1.296e-01
GTSF1	-3.176876	4.466126e-03	7.376e-02	1.873e-04	1.873e-04	1.000e+00	1.296e-01
CATSPER2	4.896353	2.928949e-06	5.932e-04	3.073e-04	3.073e-04	1.176e-01	1.296e-01
PLEC	-7.485207	2.143042e-13	3.472e-09	3.119e-04	3.119e-04	4.143e-05	1.296e-01
TMEM215	-3.865742	3.322555e-04	1.310e-02	3.017e-04	3.017e-04	5.128e-01	1.296e-01
SGMS1	-4.549464	1.613482e-05	1.623e-03	2.445e-04	2.445e-04	1.610e-01	1.296e-01
CALHM2	-4.843225	3.832456e-06	6.943e-04	2.124e-04	2.124e-04	1.219e-01	1.296e-01
NDUFS5	4.794696	4.887657e-06	8.024e-04	2.836e-04	2.836e-04	1.249e-01	1.296e-01
POF1B	-5.112881	9.518477e-07	3.084e-04	2.415e-04	2.415e-04	9.995e-02	1.296e-01

Positive Rho Permulated



Negative Rho Permulated



Top Positive genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
ZFYVE9	6.488004	2.609429e-10	8.456e-07	6.886e-06	6.886e-06	2.740e-03	1.831e-02
NLRP9	4.835339	3.987575e-06	6.999e-04	4.537e-05	4.537e-05	1.219e-01	8.391e-02
GGTLC3	4.899174	2.887218e-06	5.921e-04	6.558e-05	6.558e-05	1.176e-01	9.688e-02
PTPRB	5.553124	8.418288e-08	6.820e-05	8.774e-05	8.774e-05	5.525e-02	1.167e-01
NIPSNAP1	4.126133	1.106740e-04	6.336e-03	1.288e-04	1.288e-04	3.628e-01	1.296e-01
ACIN1	5.435539	1.638927e-07	1.155e-04	1.872e-04	1.872e-04	7.473e-02	1.296e-01
TPX2	4.311389	4.866975e-05	3.568e-03	2.248e-04	2.248e-04	2.616e-01	1.296e-01
MAP4K3	3.900434	2.880617e-04	1.197e-02	2.424e-04	2.424e-04	4.914e-01	1.296e-01
EIF4E1B	4.714582	7.266219e-06	9.571e-04	2.617e-04	2.617e-04	1.249e-01	1.296e-01
NDUFS5	4.794696	4.887657e-06	8.024e-04	2.836e-04	2.836e-04	1.249e-01	1.296e-01

Top Negative genes by P–value Permulated

Gene	Rho	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
CAPN8	-7.341996	6.312949e-13	5.114e-09	3.932e-05	3.932e-05	4.143e-05	8.391e-02
CADPS2	-4.440172	2.696612e-05	2.253e-03	5.049e-05	5.049e-05	1.872e-01	8.391e-02
C7orf57	-5.906952	1.045484e-08	1.412e-05	1.052e-04	1.052e-04	1.906e-02	1.272e-01
OFD1	-6.149700	2.328884e-09	4.193e-06	1.389e-04	1.389e-04	7.547e-03	1.296e-01
PYGM	-5.631110	5.371611e-08	5.213e-05	1.494e-04	1.494e-04	4.968e-02	1.296e-01
GTSF1	-3.176876	4.466126e-03	7.376e-02	1.873e-04	1.873e-04	1.000e+00	1.296e-01
EVPL	-6.330639	7.324434e-10	1.695e-06	1.922e-04	1.922e-04	3.924e-03	1.296e-01
CLIC3	-4.761165	5.774365e-06	8.664e-04	2.036e-04	2.036e-04	1.249e-01	1.296e-01
CALHM2	-4.843225	3.832456e-06	6.943e-04	2.124e-04	2.124e-04	1.219e-01	1.296e-01
CAB39L	-3.639186	8.205050e-04	2.417e-02	2.337e-04	2.337e-04	7.121e-01	1.296e-01