

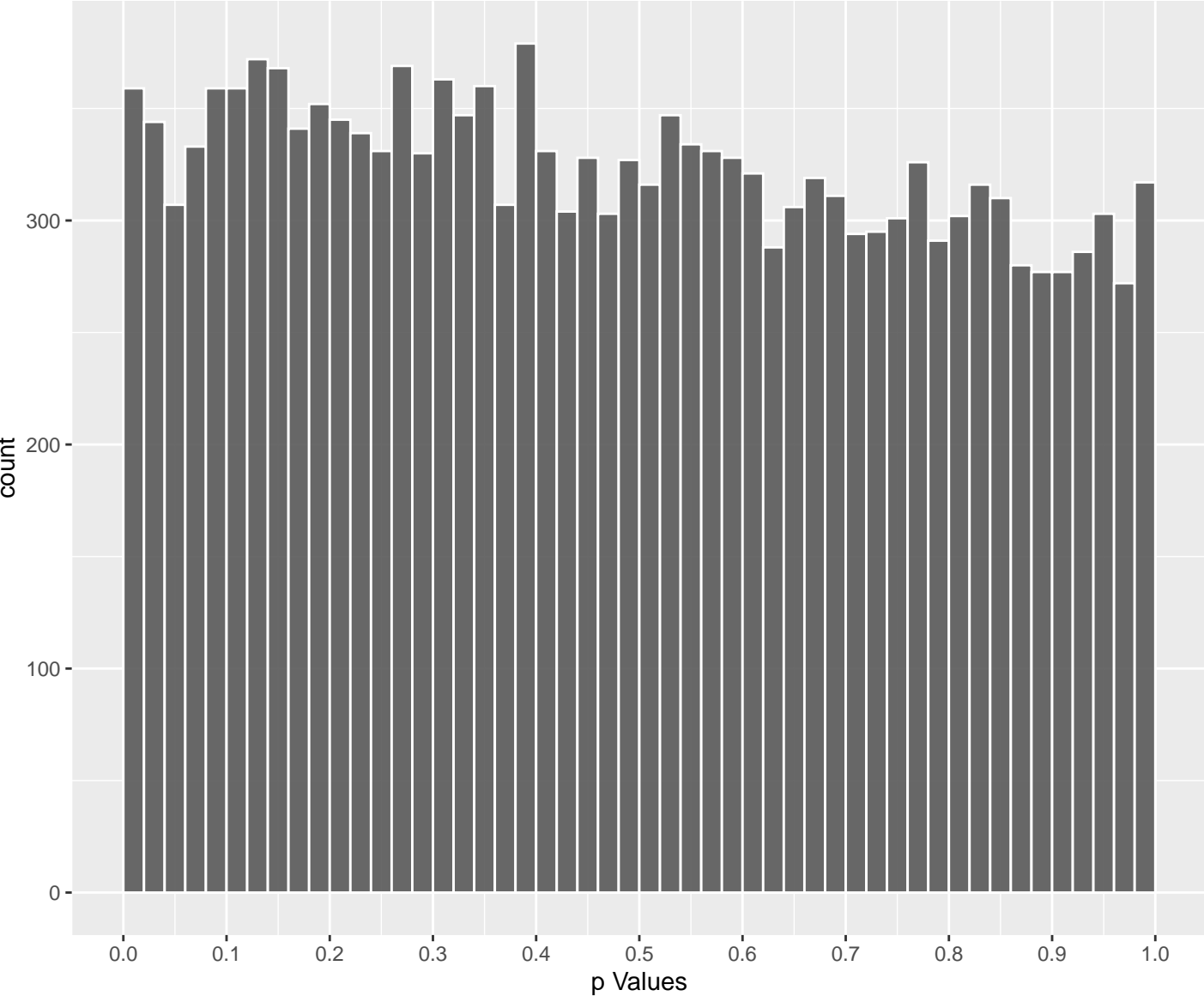
Top genes by P–value Permulated

Gene	Rho	N	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PTCD3	0.09932340	313	1.866e−07	4.455e−05	1.515e−05	1.515e−05	9.596e−03	2.195e−01
PPFIA3	0.17794716	171	2.698e−07	5.909e−05	3.970e−04	3.970e−04	1.187e−02	6.964e−01
ABCB1	0.07230963	288	3.116e−05	1.476e−03	5.303e−04	5.303e−04	6.358e−02	6.964e−01
BAX	0.18734038	105	5.878e−05	2.279e−03	6.455e−04	6.455e−04	8.105e−02	6.964e−01
ARHGEF12	0.09204905	293	1.457e−06	1.785e−04	7.273e−04	7.273e−04	1.980e−02	6.964e−01
OFD1	0.16618570	274	1.407e−10	1.755e−07	7.394e−04	7.394e−04	2.007e−04	6.964e−01
CADPS2	0.08121832	251	3.899e−05	1.694e−03	9.606e−04	9.606e−04	6.749e−02	6.964e−01
CASR	0.09342518	251	8.477e−06	5.700e−04	1.027e−03	1.027e−03	3.515e−02	6.964e−01
DNAH2	0.21574345	312	2.693e−15	4.364e−11	1.027e−03	1.027e−03	6.486e−07	6.964e−01
TACR2	0.15034267	256	4.733e−09	2.841e−06	1.045e−03	1.045e−03	1.564e−03	6.964e−01
ZFYVE9	0.14857597	286	6.384e−10	5.747e−07	1.073e−03	1.073e−03	4.746e−04	6.964e−01
ANKRD35	0.15249551	289	2.905e−10	3.363e−07	1.118e−03	1.118e−03	3.570e−04	6.964e−01
CFAP45	0.11550068	273	1.507e−07	3.942e−05	1.285e−03	1.285e−03	9.381e−03	6.964e−01
ESYT3	0.11976678	299	1.778e−08	7.582e−06	1.297e−03	1.297e−03	2.874e−03	6.964e−01
GGTLC3	0.10623403	248	2.005e−06	2.166e−04	1.355e−03	1.355e−03	2.146e−02	6.964e−01
PTPRB	0.09626052	324	1.772e−07	4.350e−05	1.385e−03	1.385e−03	9.596e−03	6.964e−01
SDS	0.08252280	243	4.607e−05	1.924e−03	1.424e−03	1.424e−03	7.372e−02	6.964e−01
SLC10A6	0.09033010	277	3.857e−06	3.572e−04	1.427e−03	1.427e−03	3.028e−02	6.964e−01
MZF1	0.11725148	252	4.068e−07	7.434e−05	1.427e−03	1.427e−03	1.241e−02	6.964e−01
WIPF3	0.08197540	137	3.794e−03	3.631e−02	1.452e−03	1.452e−03	3.186e−01	6.964e−01
NUP88	0.18840808	267	1.310e−11	4.246e−08	1.473e−03	1.473e−03	1.262e−04	6.964e−01
ALYREF	0.14952497	96	8.231e−04	1.323e−02	1.473e−03	1.473e−03	1.949e−01	6.964e−01
SP3	0.08035184	147	2.835e−03	2.976e−02	1.509e−03	1.509e−03	2.864e−01	6.964e−01
ABCB4	0.10082176	291	4.477e−07	7.886e−05	1.570e−03	1.570e−03	1.274e−02	6.964e−01
ZNF606	0.07759741	249	6.625e−05	2.438e−03	1.591e−03	1.591e−03	8.190e−02	6.964e−01

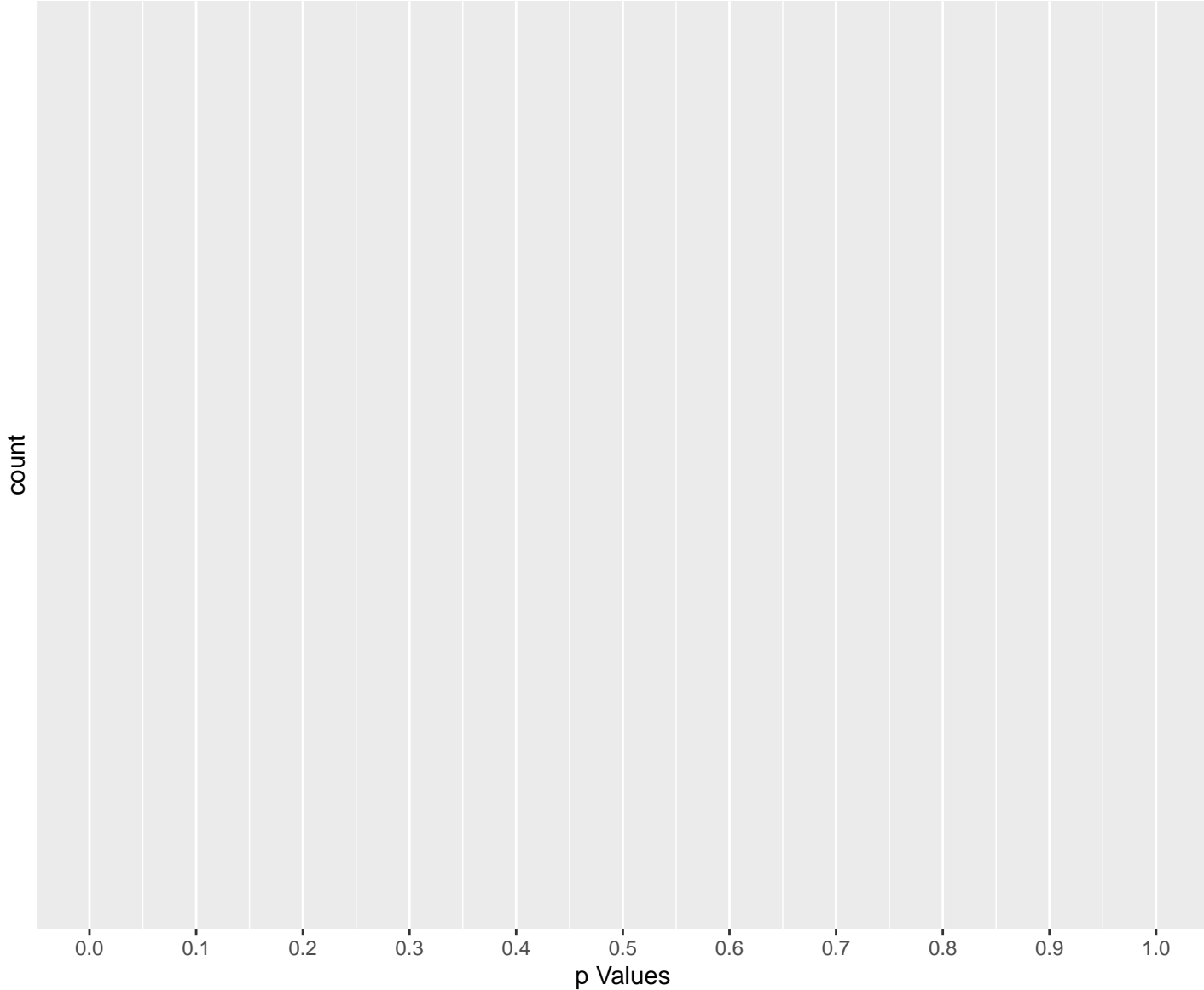
Top genes by Q–Value Permulated

Gene	Rho	N	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PTCD3	0.09932340	313	1.866e−07	4.455e−05	1.515e−05	1.515e−05	9.596e−03	2.195e−01
PYGM	0.14280726	224	1.215e−07	3.455e−05	2.330e−03	2.330e−03	9.010e−03	6.964e−01
SUPT4H1	0.42948718	25	5.777e−03	4.783e−02	1.931e−03	1.931e−03	3.623e−01	6.964e−01
PTK7	0.04657853	280	1.507e−03	1.993e−02	3.867e−03	3.867e−03	2.419e−01	6.964e−01
RARS1	0.05524878	255	8.969e−04	1.402e−02	3.133e−03	3.133e−03	2.009e−01	6.964e−01
DHX58	0.03808004	296	3.636e−03	3.521e−02	2.748e−03	2.748e−03	3.126e−01	6.964e−01
CKMT2	0.09831331	186	1.123e−04	3.468e−03	3.009e−03	3.009e−03	9.802e−02	6.964e−01
NARS1	0.07761724	243	8.341e−05	2.834e−03	3.548e−03	3.548e−03	8.826e−02	6.964e−01
SDS	0.08252280	243	4.607e−05	1.924e−03	1.424e−03	1.424e−03	7.372e−02	6.964e−01
PDCL	0.11137572	194	2.149e−05	1.106e−03	3.691e−03	3.691e−03	5.210e−02	6.964e−01
ABCB4	0.10082176	291	4.477e−07	7.886e−05	1.570e−03	1.570e−03	1.274e−02	6.964e−01
ABCB1	0.07230963	288	3.116e−05	1.476e−03	5.303e−04	5.303e−04	6.358e−02	6.964e−01
CSAD	0.03766079	260	7.619e−03	5.738e−02	3.076e−03	3.076e−03	3.959e−01	6.964e−01
NCOR1	0.09276775	285	1.901e−06	2.146e−04	1.873e−03	1.873e−03	2.146e−02	6.964e−01
SLC10A6	0.09033010	277	3.857e−06	3.572e−04	1.427e−03	1.427e−03	3.028e−02	6.964e−01
C11orf53	0.08954310	265	7.358e−06	5.165e−04	2.227e−03	2.227e−03	3.323e−02	6.964e−01
PRSS53	0.08168560	295	6.097e−06	4.796e−04	3.655e−03	3.655e−03	3.323e−02	6.964e−01
ZFYVE9	0.14857597	286	6.384e−10	5.747e−07	1.073e−03	1.073e−03	4.746e−04	6.964e−01
PIP	0.12368616	250	2.053e−07	4.685e−05	3.018e−03	3.018e−03	9.808e−03	6.964e−01
ALB	0.07914234	303	6.456e−06	4.935e−04	3.215e−03	3.215e−03	3.323e−02	6.964e−01
HPS3	0.06782127	305	3.334e−05	1.544e−03	3.127e−03	3.127e−03	6.555e−02	6.964e−01
RAB8A	0.19976468	78	4.569e−04	9.005e−03	3.630e−03	3.630e−03	1.618e−01	6.964e−01
HAS2	0.23169520	105	5.855e−06	4.721e−04	1.612e−03	1.612e−03	3.323e−02	6.964e−01
SP3	0.08035184	147	2.835e−03	2.976e−02	1.509e−03	1.509e−03	2.864e−01	6.964e−01
SPTBN5	0.13306984	284	6.645e−09	3.846e−06	3.106e−03	3.106e−03	1.828e−03	6.964e−01

Positive Rho Permulated



Negative Rho Permulated



Top Positive genes by P–value Permulated

Gene	Rho	N	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
PTCD3	0.09932340	313	1.866e−07	4.455e−05	1.515e−05	1.515e−05	9.596e−03	2.195e−01
PPFIA3	0.17794716	171	2.698e−07	5.909e−05	3.970e−04	3.970e−04	1.187e−02	6.964e−01
ABCB1	0.07230963	288	3.116e−05	1.476e−03	5.303e−04	5.303e−04	6.358e−02	6.964e−01
BAX	0.18734038	105	5.878e−05	2.279e−03	6.455e−04	6.455e−04	8.105e−02	6.964e−01
ARHGEF12	0.09204905	293	1.457e−06	1.785e−04	7.273e−04	7.273e−04	1.980e−02	6.964e−01
OFD1	0.16618570	274	1.407e−10	1.755e−07	7.394e−04	7.394e−04	2.007e−04	6.964e−01
CADPS2	0.08121832	251	3.899e−05	1.694e−03	9.606e−04	9.606e−04	6.749e−02	6.964e−01
CASR	0.09342518	251	8.477e−06	5.700e−04	1.027e−03	1.027e−03	3.515e−02	6.964e−01
DNAH2	0.21574345	312	2.693e−15	4.364e−11	1.027e−03	1.027e−03	6.486e−07	6.964e−01
TACR2	0.15034267	256	4.733e−09	2.841e−06	1.045e−03	1.045e−03	1.564e−03	6.964e−01

Top Negative genes by P–value Permulated

Gene	Rho	N	P	p.adj	permP	permPValue	qValueNoperm	qValuePerm
NA	NA	NA	NA	NA	NA	NA	NA	NA
NA.1	NA	NA	NA	NA	NA	NA	NA	NA
NA.2	NA	NA	NA	NA	NA	NA	NA	NA
NA.3	NA	NA	NA	NA	NA	NA	NA	NA
NA.4	NA	NA	NA	NA	NA	NA	NA	NA
NA.5	NA	NA	NA	NA	NA	NA	NA	NA
NA.6	NA	NA	NA	NA	NA	NA	NA	NA
NA.7	NA	NA	NA	NA	NA	NA	NA	NA
NA.8	NA	NA	NA	NA	NA	NA	NA	NA
NA.9	NA	NA	NA	NA	NA	NA	NA	NA