64 8.101e-01 1.000e+00

5.787e-01

6.105e-01

1.218e-01

3.416e-01

7.428e-01

6.745e-01

3.067e-01

6.603e-01

6.130e-01

8.079e-01

5.117e-01

4.785e-01

7.524e-01 7.133e-01

6.565e-01

9.205e-01

7.238e-01

6.556e-01

2.274e-01

7.415e-01

4.846e-01 1.000e+00

Top genes by Q-Value non-permulated

p.adj

1.000e+00

permPValue

8.240e-01

9.999e-01

1.000e+00

7.236e-01

9.999e-01

9.999e-01

4.619e-01

9.999e-01

1.419e-01

9.999e-01

1.000e+00

1.000e+00

1.000e+00

6.851e-01

7.693e-01

6.736e-01

9.999e-01

4.577e-01

6.390e-01

5.089e-02

4.016e-01

8.106e-01

qValueNoperm

1.000e+00

qValuePerm

1.000e+00

1.000e+00 1.000e+00 1.000e+00

Gene

ENSG00000000003

ENSG00000000419

ENSG00000000460

ENSG00000000938

ENSG00000000971

ENSG0000001036

ENSG0000001084

ENSG0000001167

ENSG00000001461

ENSG00000001561

ENSG00000001617

ENSG00000001626

ENSG00000001629

ENSG00000001630

ENSG00000001631

ENSG00000002016

ENSG00000002330

ENSG00000002549

ENSG00000002587

ENSG00000002726

ENSG00000002745

ENSG00000002822

0.024911373

-0.055794899

-0.056569720

-0.101937015

0.032969713

-0.042849885

-0.102713336

-0.049273054

0.068021702

0.072309180

0.031701647

0.037493649

-0.075592895

0.010523116

0.056158480

0.193022008

-0.063324759

-0.035505845 68

0.073661810 62

-0.052433396 64

-0.033525079 37

-0.168761962 58

68

56

60

68

66

68

55

64

66

68

66

25

62

44

28

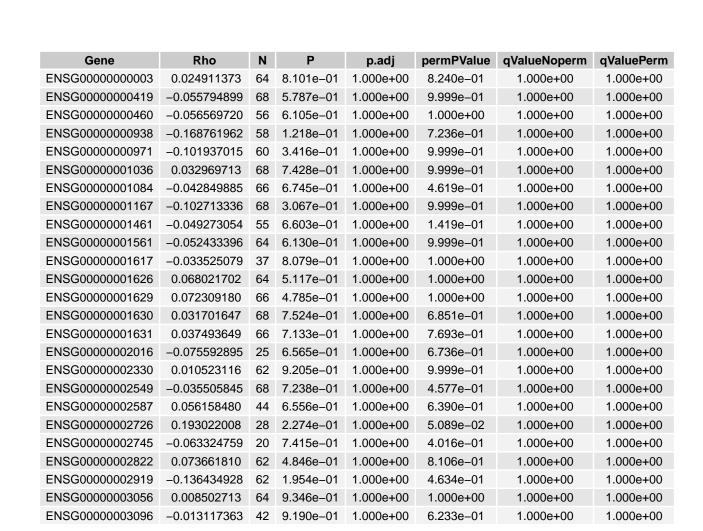
20

Gene	Rho	N	P	p.adj	permPValue	qValueNoperm	qValuePerm
ENSG00000281748	-0.23693955	20	2.170e-01	1.000e+00	3.076e-02	1.000e+00	1.000e+00
ENSG00000157554	-0.15699441	65	1.269e-01	1.000e+00	3.464e-02	1.000e+00	1.000e+00
ENSG00000204138	-0.13441498	68	1.810e-01	1.000e+00	3.595e-02	1.000e+00	1.000e+00
ENSG00000103534	-0.09666537	51	4.071e-01	1.000e+00	3.671e-02	1.000e+00	1.000e+00
ENSG00000145491	-0.20135071	43	1.141e-01	1.000e+00	3.745e-02	1.000e+00	1.000e+00
ENSG00000134138	-0.11296150	61	2.878e-01	1.000e+00	3.780e-02	1.000e+00	1.000e+00
ENSG00000136634	-0.11478341	55	3.059e-01	1.000e+00	3.938e-02	1.000e+00	1.000e+00
ENSG00000241127	-0.11515906	66	2.591e-01	1.000e+00	4.055e-02	1.000e+00	1.000e+00
ENSG00000139926	0.14068448	46	2.528e-01	1.000e+00	4.108e-02	1.000e+00	1.000e+00
ENSG00000154553	0.18759644	58	8.546e-02	1.000e+00	4.266e-02	1.000e+00	1.000e+00
ENSG00000064835	-0.05270463	16	8.084e-01	1.000e+00	4.421e-02	1.000e+00	1.000e+00
ENSG00000025772	0.15532974	64	1.341e-01	1.000e+00	4.458e-02	1.000e+00	1.000e+00
ENSG00000205078	0.21653278	27	1.842e-01	1.000e+00	4.705e-02	1.000e+00	1.000e+00
ENSG00000149218	-0.12363675	64	2.330e-01	1.000e+00	4.854e-02	1.000e+00	1.000e+00
ENSG00000237521	0.06970715	21	7.091e-01	1.000e+00	4.887e-02	1.000e+00	1.000e+00
ENSG00000143390	-0.17288849	64	9.538e-02	1.000e+00	4.919e-02	1.000e+00	1.000e+00
ENSG00000237172	-0.04873453	62	6.438e-01	1.000e+00	4.919e-02	1.000e+00	1.000e+00
ENSG00000143036	0.09560455	53	4.029e-01	1.000e+00	4.948e-02	1.000e+00	1.000e+00
ENSG00000133193	-0.09442315	62	3.702e-01	1.000e+00	4.980e-02	1.000e+00	1.000e+00
ENSG00000182173	0.16593802	66	1.039e-01	1.000e+00	5.074e-02	1.000e+00	1.000e+00
ENSG00000002726	0.19302201	28	2.274e-01	1.000e+00	5.089e-02	1.000e+00	1.000e+00
ENSG00000089876	0.05579490	68	5.787e-01	1.000e+00	5.185e-02	1.000e+00	1.000e+00
ENSG00000113356	0.13272624	56	2.321e-01	1.000e+00	5.370e-02	1.000e+00	1.000e+00
ENSG00000166510	0.31950483	16	1.415e-01	1.000e+00	5.370e-02	1.000e+00	1.000e+00
ENSG00000167657	-0.15977630	68	1.118e-01	1.000e+00	5.370e-02	1.000e+00	1.000e+00

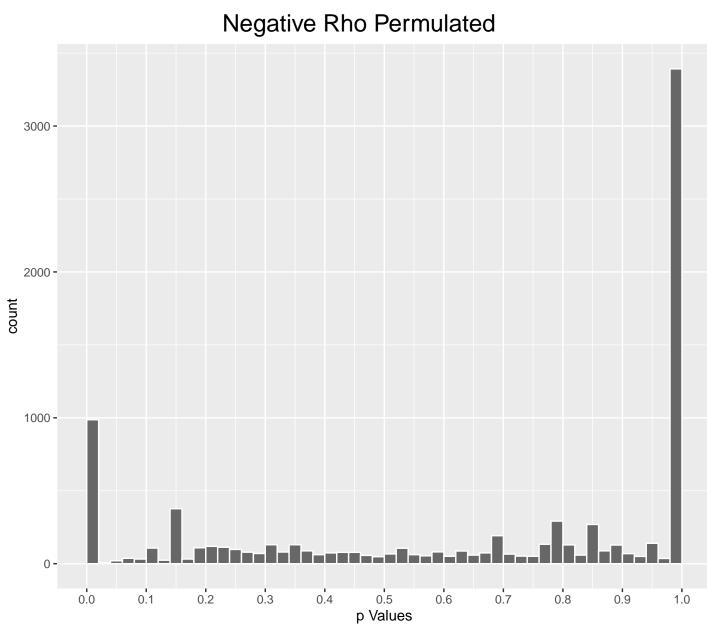
Е	NSG00000002919	-0.136434928	62	1.954e-01	1.000e+00	4.634e-01	1.000e+00
E	NSG00000003056	0.008502713	64	9.346e-01	1.000e+00	1.000e+00	1.000e+00
E	NSG00000003096	-0.013117363	42	9.190e-01	1.000e+00	6.233e-01	1.000e+00

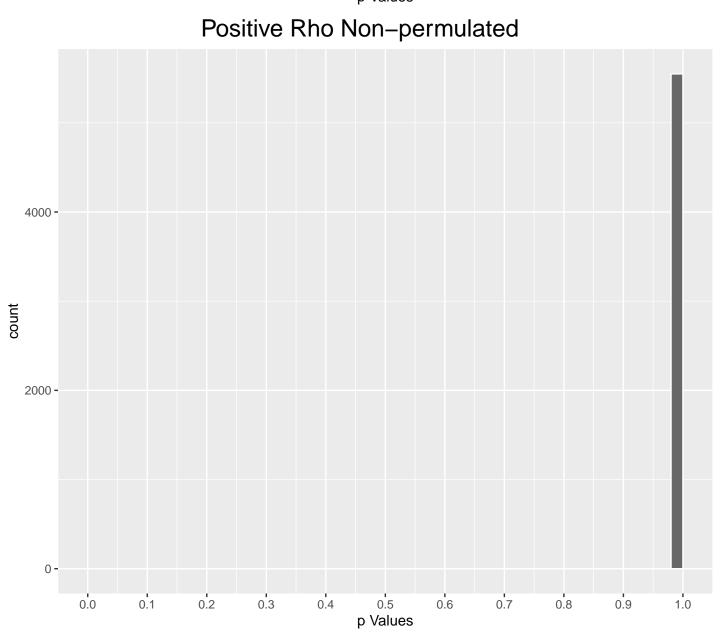
Top genes by P-value non-permulated

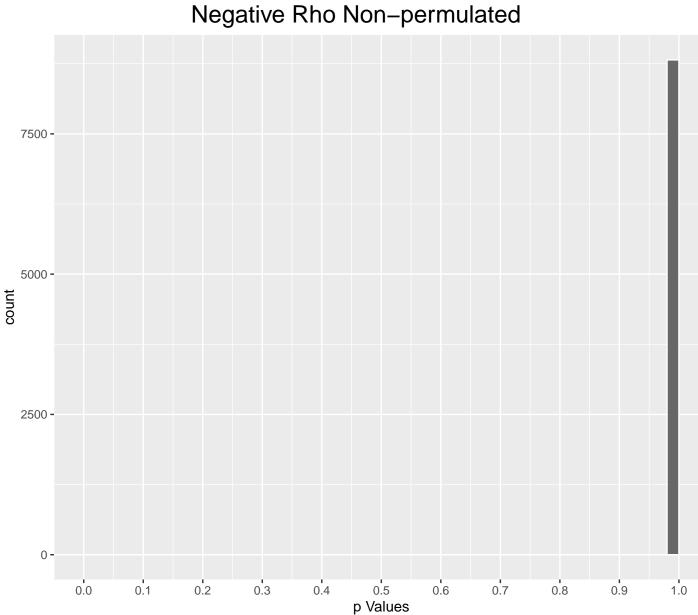
Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
ENSG00000117152	-0.47999759	58	1.080e-05	1.593e-01	1.813e-01	1.000e+00	1.000e+00
ENSG00000070404	-0.41905036	65	4.609e-05	3.399e-01	1.919e-01	1.000e+00	1.000e+00
ENSG00000164188	-0.40737422	64	8.511e-05	4.185e-01	3.090e-01	1.000e+00	1.000e+00
ENSG00000000003	0.02491137	64	8.101e-01	1.000e+00	8.240e-01	1.000e+00	1.000e+00
ENSG00000000419	-0.05579490	68	5.787e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG00000000460	-0.05656972	56	6.105e-01	1.000e+00	1.000e+00	1.000e+00	1.000e+00
ENSG00000000938	-0.16876196	58	1.218e-01	1.000e+00	7.236e-01	1.000e+00	1.000e+00
ENSG00000000971	-0.10193702	60	3.416e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG0000001036	0.03296971	68	7.428e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG0000001084	-0.04284988	66	6.745e-01	1.000e+00	4.619e-01	1.000e+00	1.000e+00
ENSG0000001167	-0.10271334	68	3.067e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG0000001461	-0.04927305	55	6.603e-01	1.000e+00	1.419e-01	1.000e+00	1.000e+00
ENSG0000001561	-0.05243340	64	6.130e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG0000001617	-0.03352508	37	8.079e-01	1.000e+00	1.000e+00	1.000e+00	1.000e+00
ENSG0000001626	0.06802170	64	5.117e-01	1.000e+00	1.000e+00	1.000e+00	1.000e+00
ENSG0000001629	0.07230918	66	4.785e-01	1.000e+00	1.000e+00	1.000e+00	1.000e+00
ENSG0000001630	0.03170165	68	7.524e-01	1.000e+00	6.851e-01	1.000e+00	1.000e+00
ENSG0000001631	0.03749365	66	7.133e-01	1.000e+00	7.693e-01	1.000e+00	1.000e+00
ENSG00000002016	-0.07559289	25	6.565e-01	1.000e+00	6.736e-01	1.000e+00	1.000e+00
ENSG00000002330	0.01052312	62	9.205e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG00000002549	-0.03550584	68	7.238e-01	1.000e+00	4.577e-01	1.000e+00	1.000e+00
ENSG00000002587	0.05615848	44	6.556e-01	1.000e+00	6.390e-01	1.000e+00	1.000e+00
ENSG00000002726	0.19302201	28	2.274e-01	1.000e+00	5.089e-02	1.000e+00	1.000e+00
ENSG00000002745	-0.06332476	20	7.415e-01	1.000e+00	4.016e-01	1.000e+00	1.000e+00
ENSG00000002822	0.07366181	62	4.846e-01	1.000e+00	8.106e-01	1.000e+00	1.000e+00



2000 - 1000 - 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0







Top Positive genes by P-value Permulated

Top Negative genes by P-value Permulated

	.14068448	46	2.528e-01	1.000e+00	4.400 - 00	4 000	4 000
ENSC00000154552 0		. •	2.3206-01	1.000e+00	4.108e-02	1.000e+00	1.000e+00
ENSG00000154555 0.	.18759644	58	8.546e-02	1.000e+00	4.266e-02	1.000e+00	1.000e+00
ENSG00000025772 0.	.15532974	64	1.341e-01	1.000e+00	4.458e-02	1.000e+00	1.000e+00
ENSG00000205078 0.	.21653278	27	1.842e-01	1.000e+00	4.705e-02	1.000e+00	1.000e+00
ENSG00000237521 0.	.06970715	21	7.091e-01	1.000e+00	4.887e-02	1.000e+00	1.000e+00
ENSG00000143036 0.	.09560455	53	4.029e-01	1.000e+00	4.948e-02	1.000e+00	1.000e+00
ENSG00000182173 0.	.16593802	66	1.039e-01	1.000e+00	5.074e-02	1.000e+00	1.000e+00
ENSG00000002726 0.	.19302201	28	2.274e-01	1.000e+00	5.089e-02	1.000e+00	1.000e+00
ENSG00000089876 0.	.05579490	68	5.787e-01	1.000e+00	5.185e-02	1.000e+00	1.000e+00
ENSG00000113356 0.	.13272624	56	2.321e-01	1.000e+00	5.370e-02	1.000e+00	1.000e+00

Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
ENSG00000281748	-0.23693955	20	2.170e-01	1.000e+00	3.076e-02	1.000e+00	1.000e+00
ENSG00000157554	-0.15699441	65	1.269e-01	1.000e+00	3.464e-02	1.000e+00	1.000e+00
ENSG00000204138	-0.13441498	68	1.810e-01	1.000e+00	3.595e-02	1.000e+00	1.000e+00
ENSG00000103534	-0.09666537	51	4.071e-01	1.000e+00	3.671e-02	1.000e+00	1.000e+00
ENSG00000145491	-0.20135071	43	1.141e-01	1.000e+00	3.745e-02	1.000e+00	1.000e+00
ENSG00000134138	-0.11296150	61	2.878e-01	1.000e+00	3.780e-02	1.000e+00	1.000e+00
ENSG00000136634	-0.11478341	55	3.059e-01	1.000e+00	3.938e-02	1.000e+00	1.000e+00
ENSG00000241127	-0.11515906	66	2.591e-01	1.000e+00	4.055e-02	1.000e+00	1.000e+00
ENSG00000064835	-0.05270463	16	8.084e-01	1.000e+00	4.421e-02	1.000e+00	1.000e+00
ENSG00000149218	-0.12363675	64	2.330e-01	1.000e+00	4.854e-02	1.000e+00	1.000e+00

Top Positive genes by P-value non-permulated

Top Negative genes by P-value non-permulated

Gene	Kno	N	P	p.aaj	permPvalue	qvalueNoperm	qvaluePerm
ENSG00000000003	0.02491137	64	8.101e-01	1.000e+00	8.240e-01	1.000e+00	1.000e+00
ENSG0000001036	0.03296971	68	7.428e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG00000001626	0.06802170	64	5.117e-01	1.000e+00	1.000e+00	1.000e+00	1.000e+00
ENSG00000001629	0.07230918	66	4.785e-01	1.000e+00	1.000e+00	1.000e+00	1.000e+00
ENSG00000001630	0.03170165	68	7.524e-01	1.000e+00	6.851e-01	1.000e+00	1.000e+00
ENSG00000001631	0.03749365	66	7.133e-01	1.000e+00	7.693e-01	1.000e+00	1.000e+00
ENSG00000002330	0.01052312	62	9.205e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG00000002587	0.05615848	44	6.556e-01	1.000e+00	6.390e-01	1.000e+00	1.000e+00
ENSG00000002726	0.19302201	28	2.274e-01	1.000e+00	5.089e-02	1.000e+00	1.000e+00
ENSG00000002822	0.07366181	62	4.846e-01	1.000e+00	8.106e-01	1.000e+00	1.000e+00

Gene	Rho	N	Р	p.adj	permPValue	qValueNoperm	qValuePerm
ENSG00000117152	-0.47999759	58	1.080e-05	1.593e-01	1.813e-01	1.000e+00	1.000e+00
ENSG00000070404	-0.41905036	65	4.609e-05	3.399e-01	1.919e-01	1.000e+00	1.000e+00
ENSG00000164188	-0.40737422	64	8.511e-05	4.185e-01	3.090e-01	1.000e+00	1.000e+00
ENSG00000000419	-0.05579490	68	5.787e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG00000000460	-0.05656972	56	6.105e-01	1.000e+00	1.000e+00	1.000e+00	1.000e+00
ENSG00000000938	-0.16876196	58	1.218e-01	1.000e+00	7.236e-01	1.000e+00	1.000e+00
ENSG00000000971	-0.10193702	60	3.416e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG0000001084	-0.04284988	66	6.745e-01	1.000e+00	4.619e-01	1.000e+00	1.000e+00
ENSG0000001167	-0.10271334	68	3.067e-01	1.000e+00	9.999e-01	1.000e+00	1.000e+00
ENSG0000001461	-0.04927305	55	6.603e-01	1.000e+00	1.419e-01	1.000e+00	1.000e+00