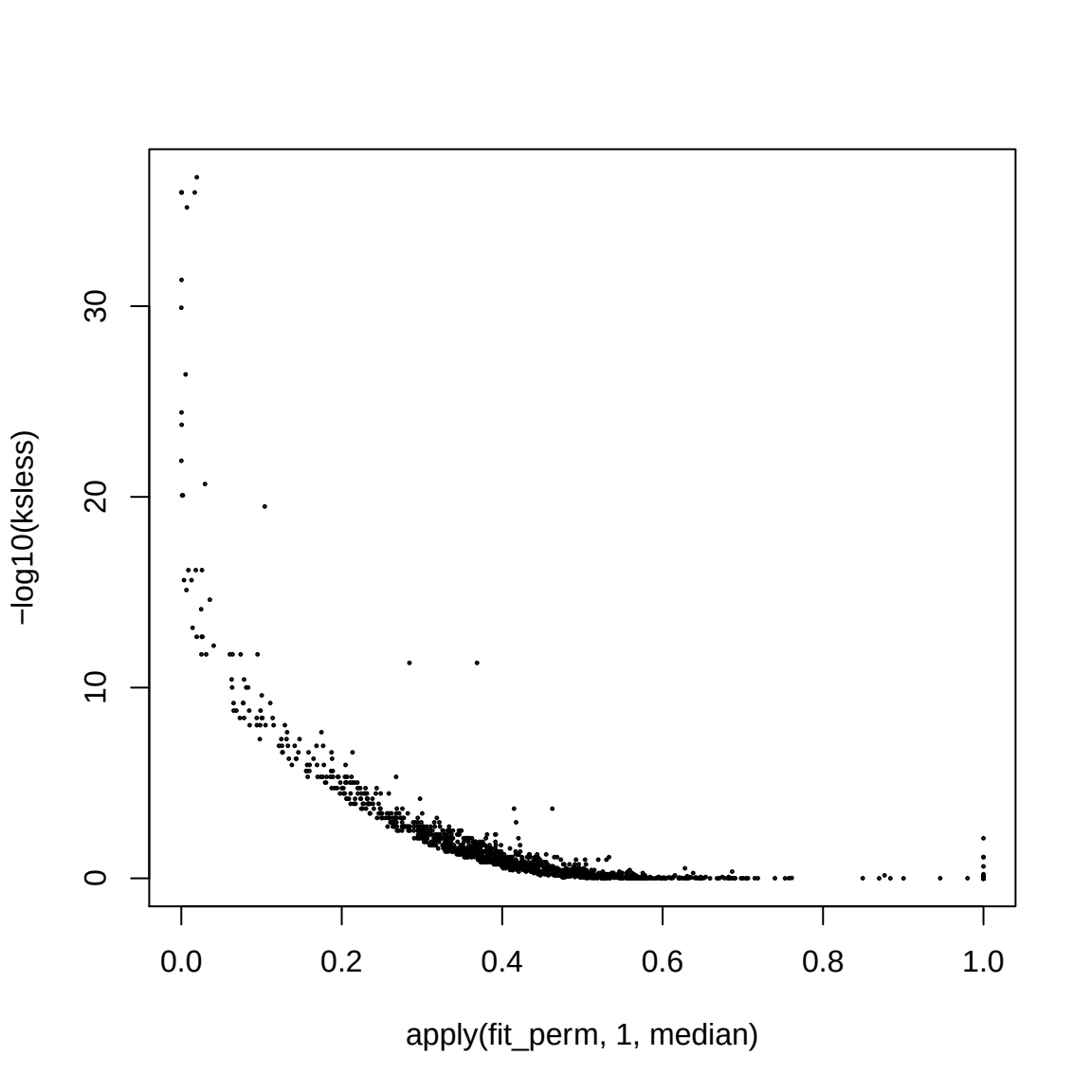
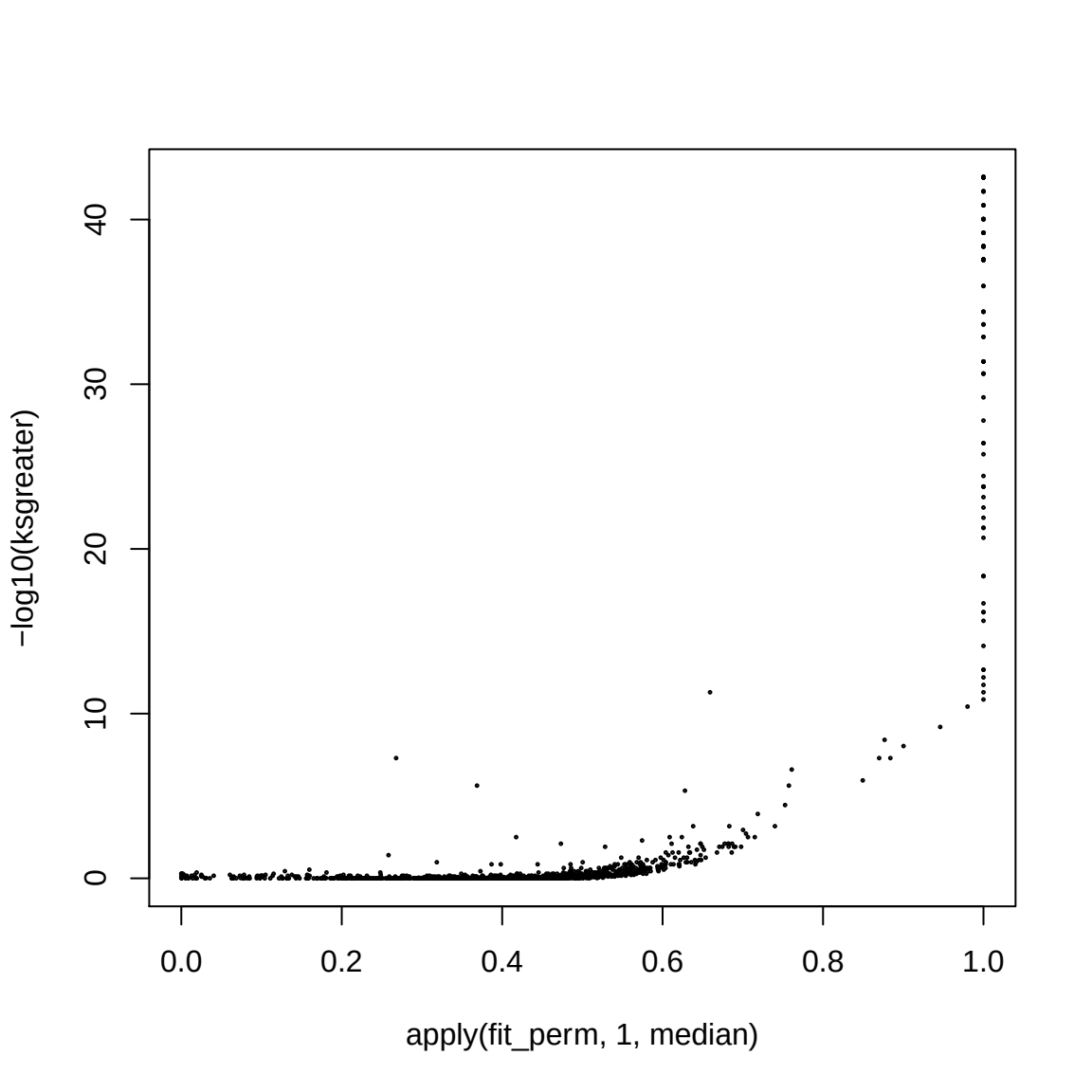
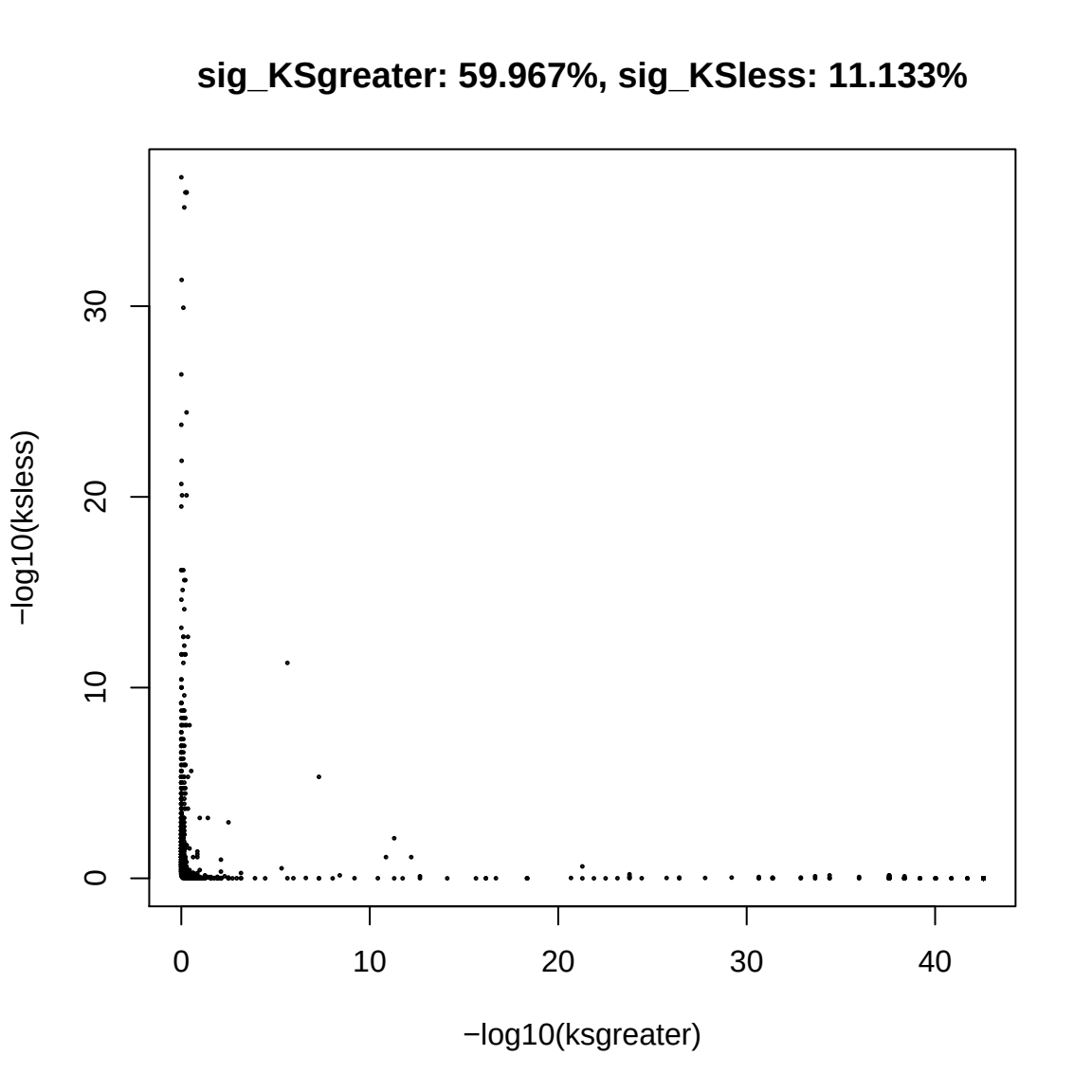
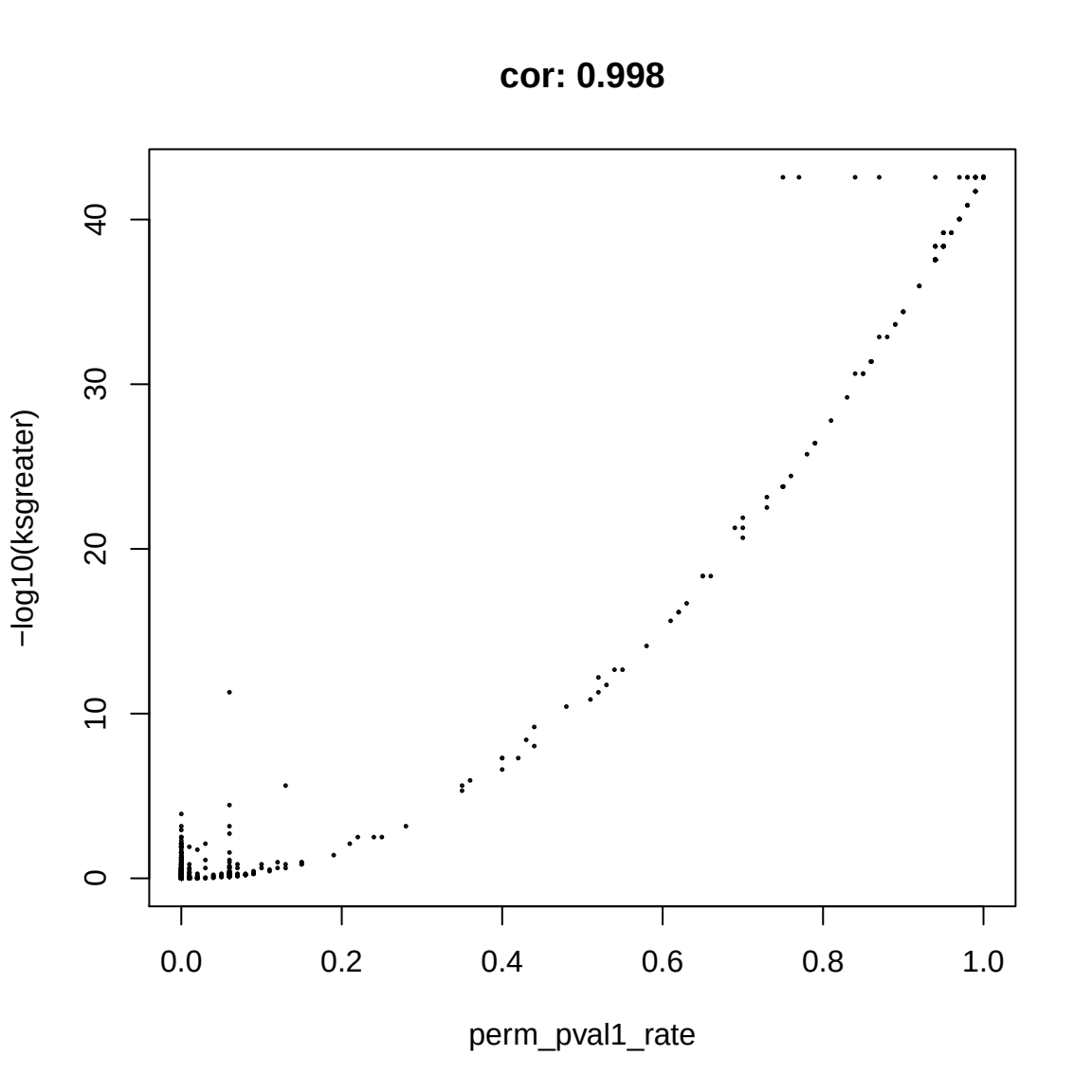
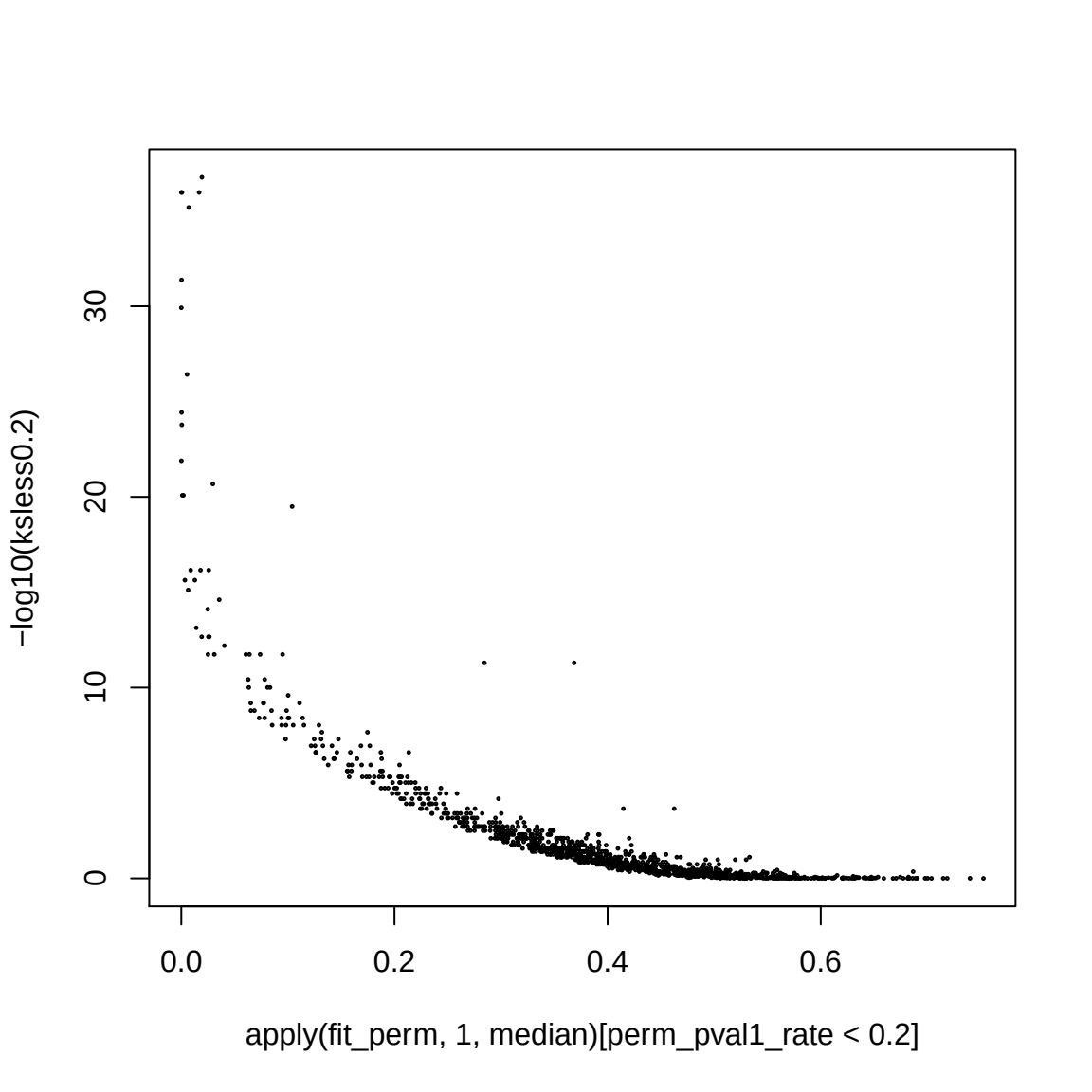
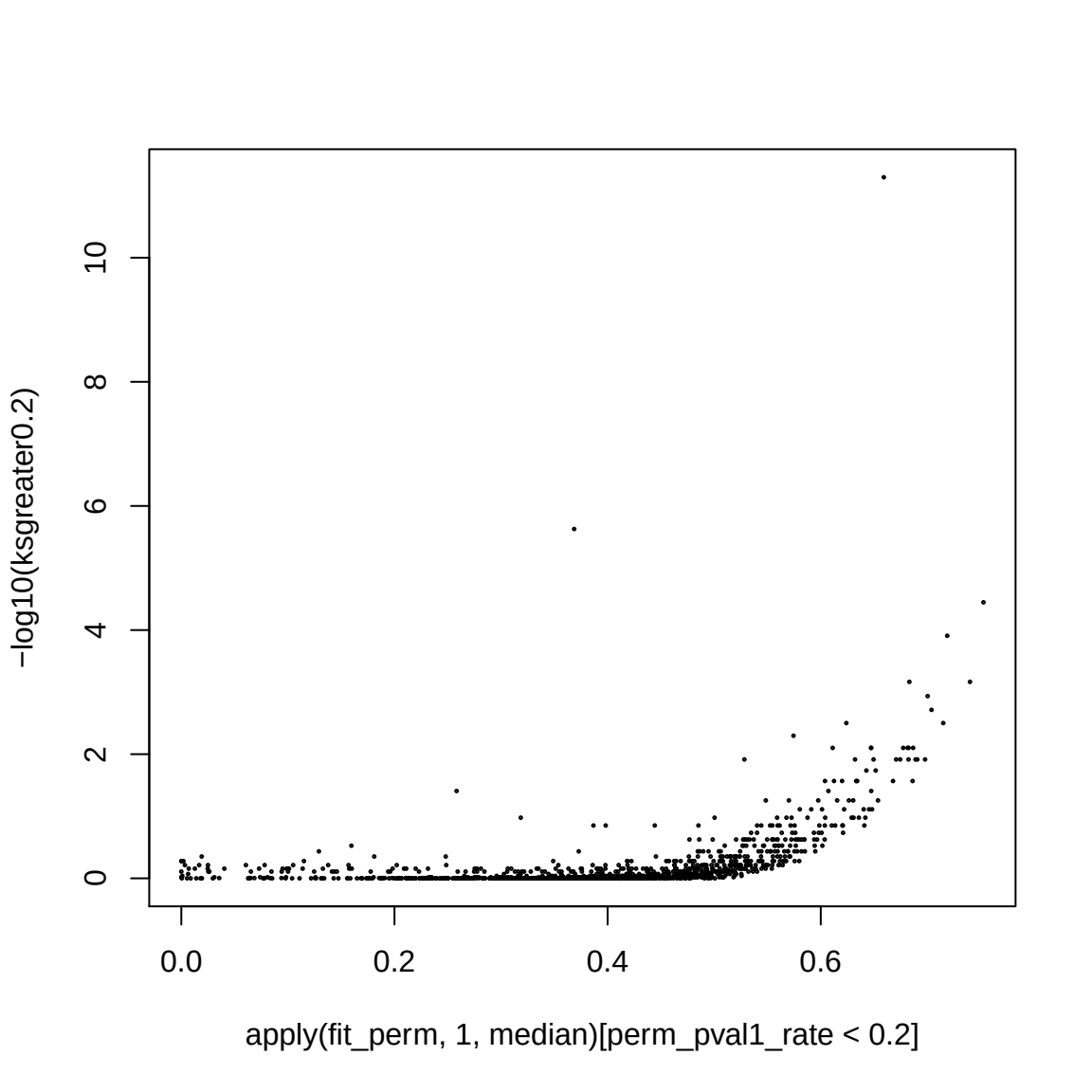

−log10(ksless)
0
10
20
30
0.0
0.2
0.4
0.6
0.8
1.0
apply(fit_perm, 1, median)

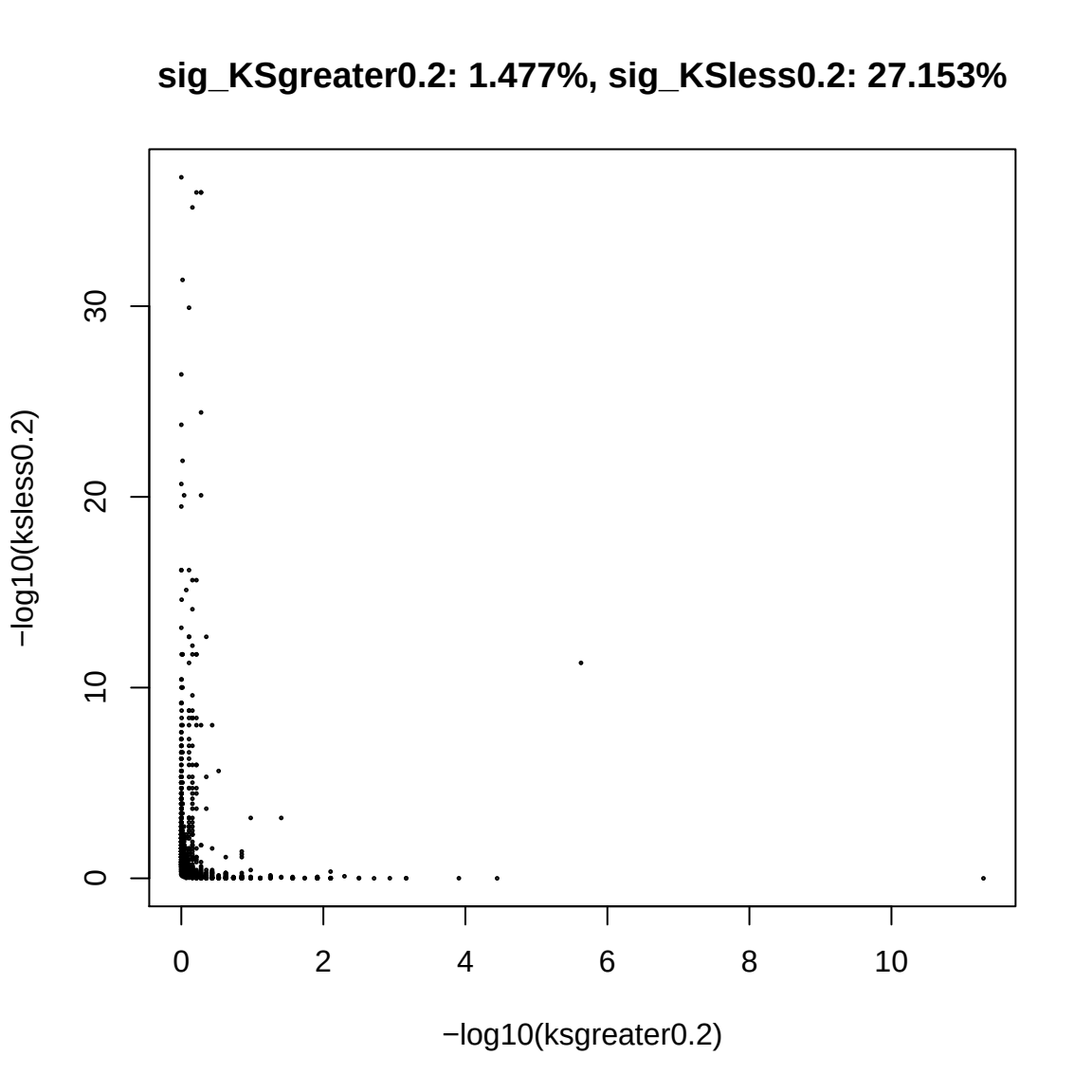

−log10(ksgreater)
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0
apply(fit_perm, 1, median)

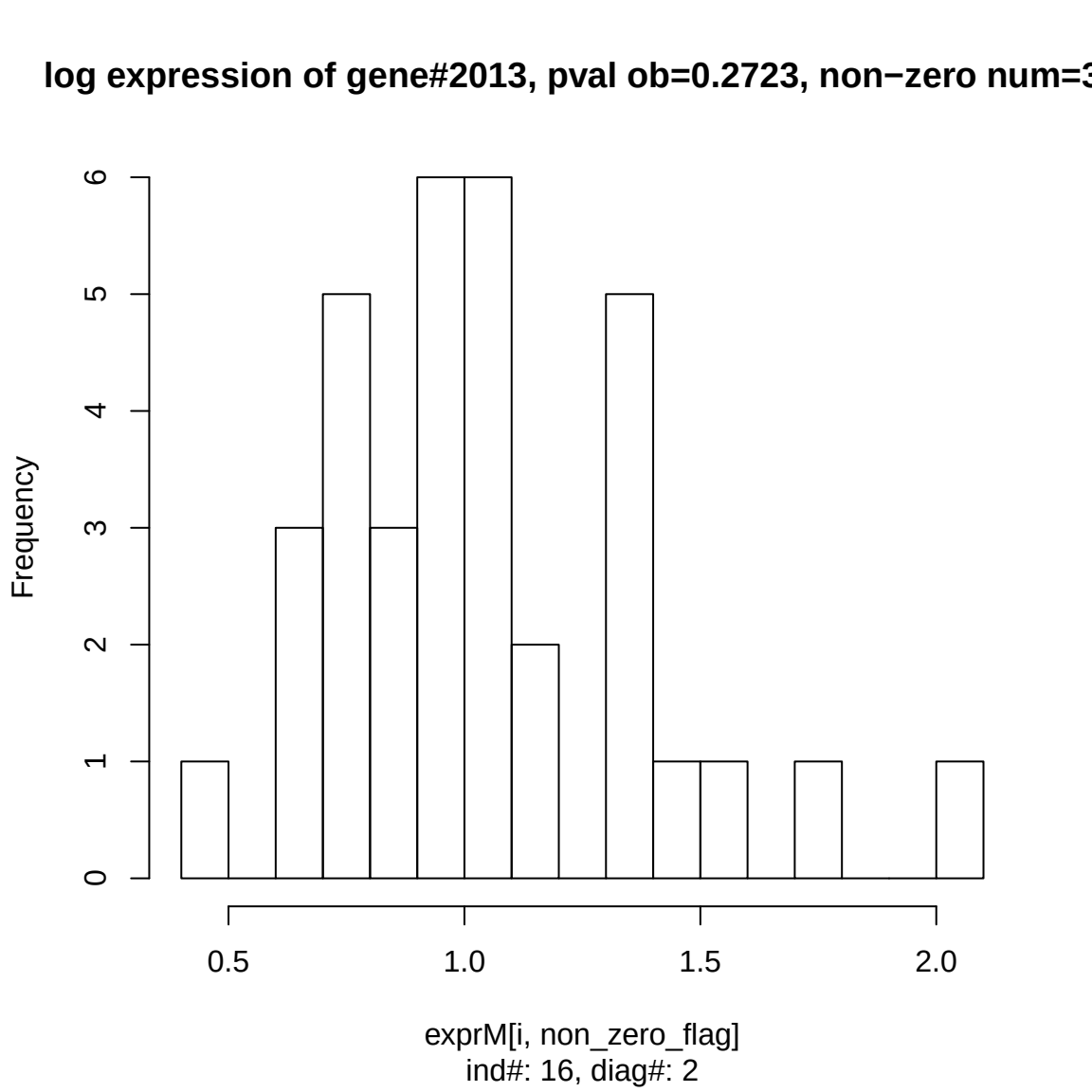

sig_KSgreater: 59.967%, sig_KSless: 11.133%
−log10(ksless)
0
10
20
30
0
10
20
30
40
−log10(ksgreater)

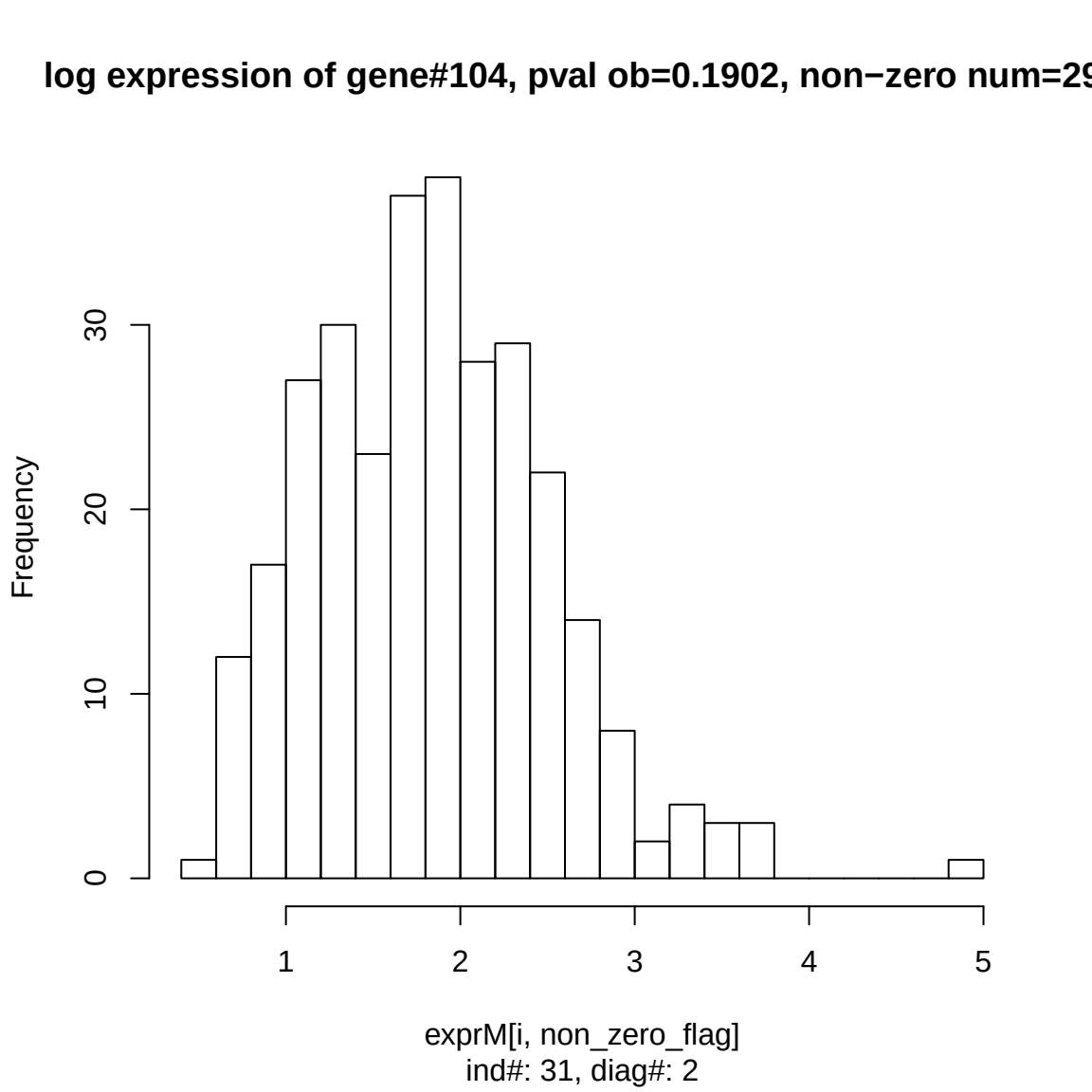

cor: 0.998
−log10(ksgreater)
0
10
20
30
40
0.0
0.2
0.4
0.6
0.8
1.0
perm_pval1_rate

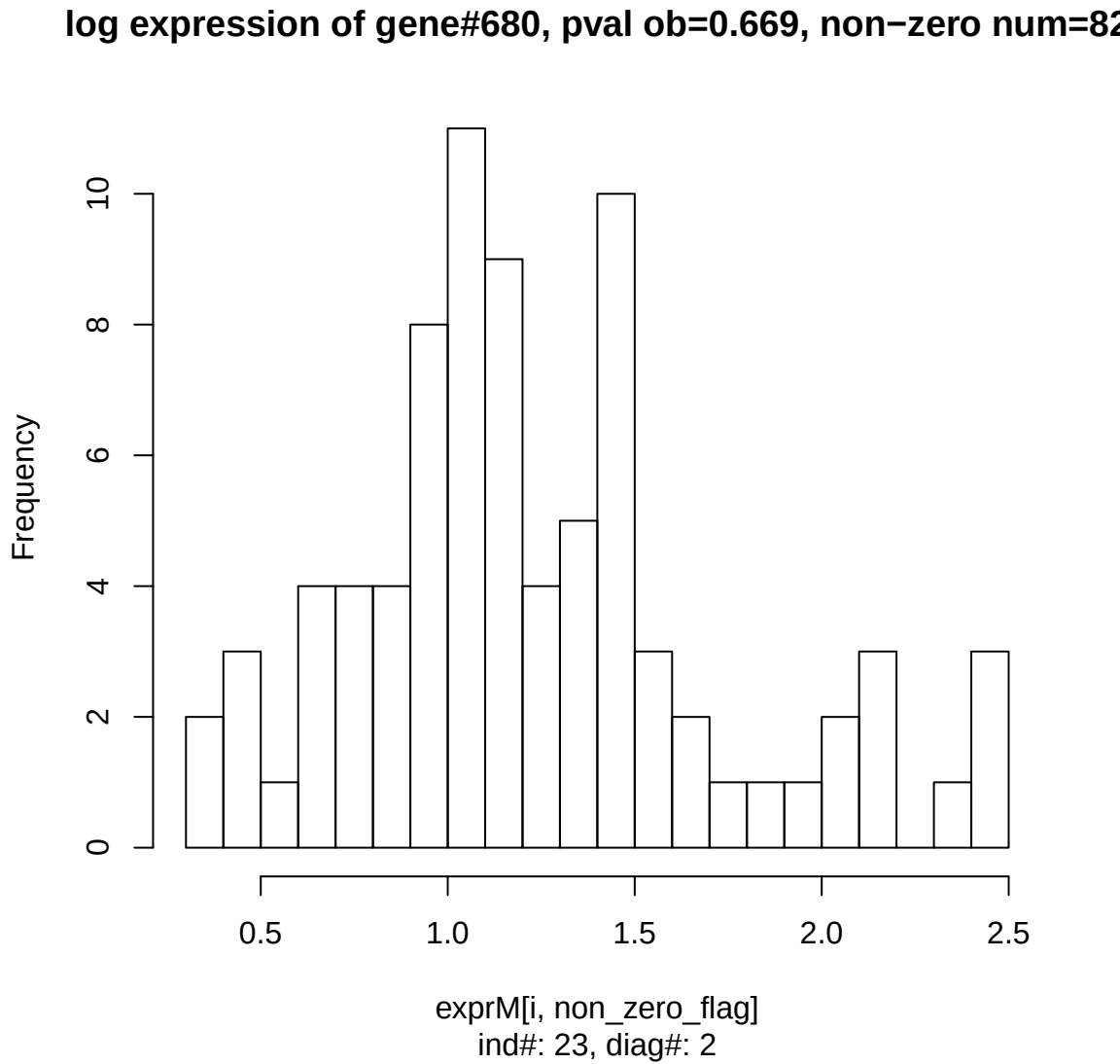

−log10(ksless0.2)
0
10
20
30
0.0
0.2
0.4
0.6
apply(fit_perm, 1, median)[perm_pval1_rate < 0.2]

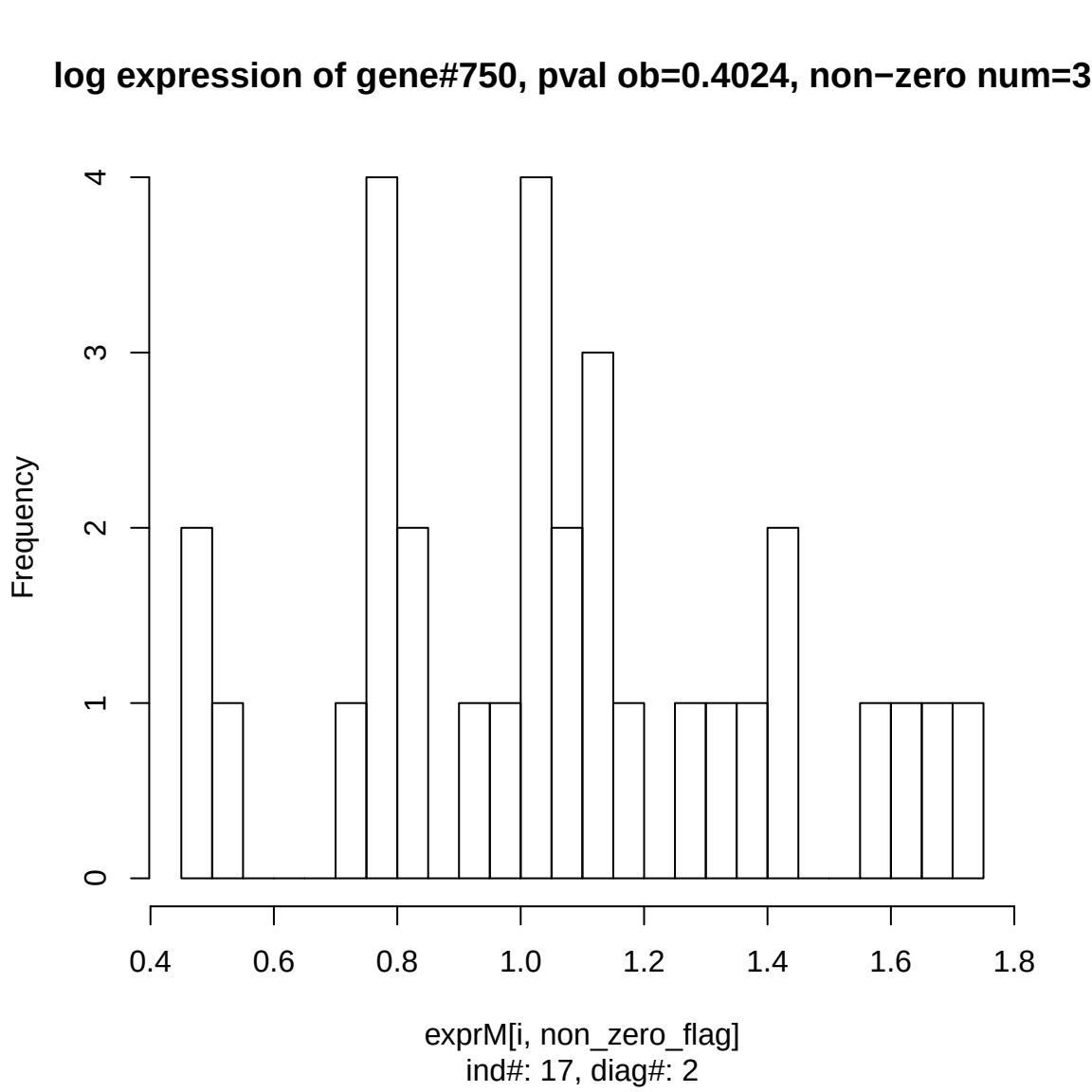

−log10(ksgreater0.2)
0
2
4
6
8
10
0.0
0.2
0.4
0.6
apply(fit_perm, 1, median)[perm_pval1_rate < 0.2]

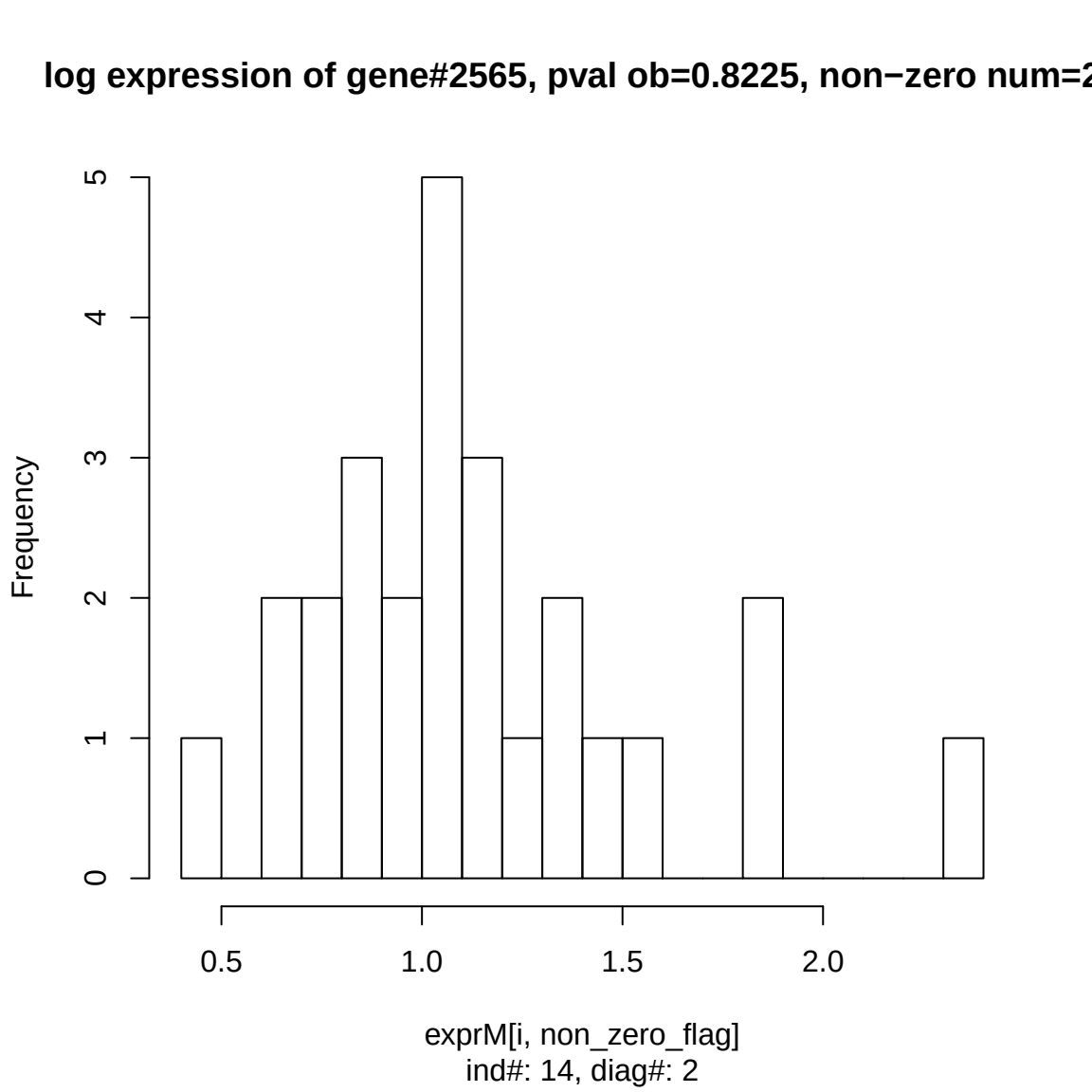

sig_KSgreater0.2: 1.477%, sig_KSless0.2: 27.153%
−log10(ksless0.2)
0
10
20
30
0
2
4
6
8
10
−log10(ksgreater0.2)

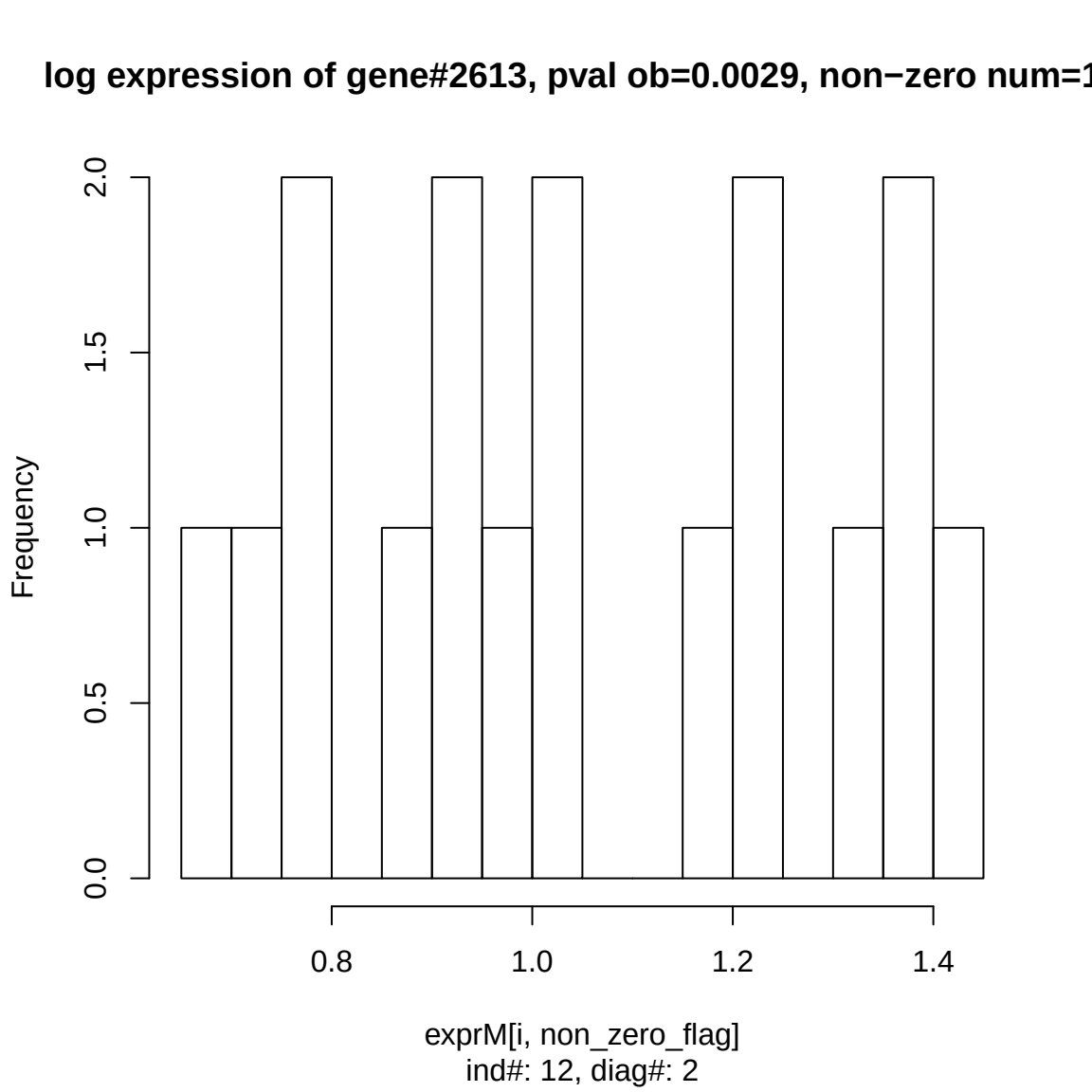

log expression of gene#2013, pval ob=0.2723, non−zero num=3
Frequency
0
1
2
3
4
5
6
0.5
1.0
1.5
2.0
exprM[i, non_zero_flag]
ind#: 16, diag#: 2

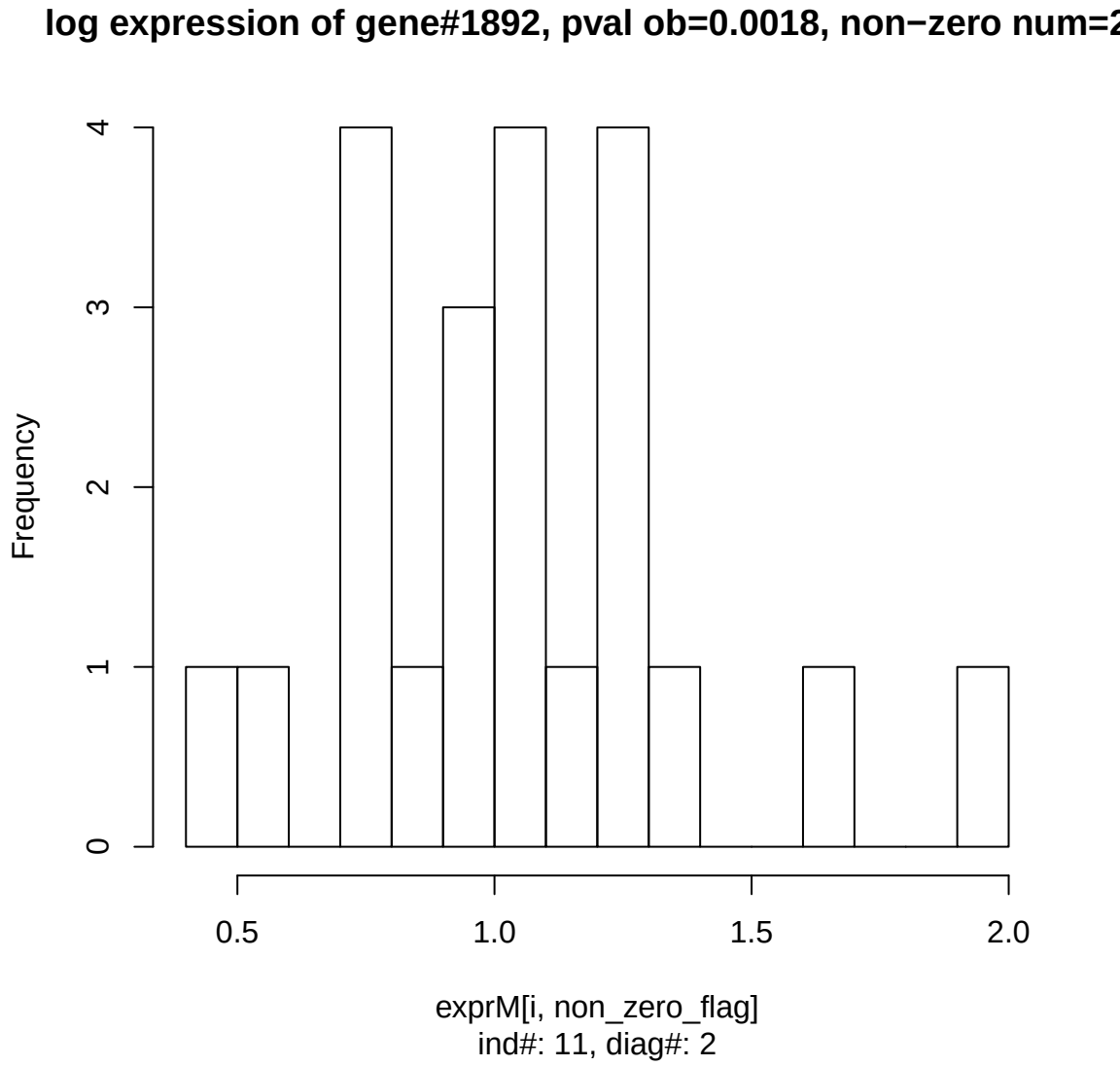

log expression of gene#104, pval ob=0.1902, non−zero num=29
Frequency
0
10
20
30
1
2
3
4
5
exprM[i, non_zero_flag]
ind#: 31, diag#: 2

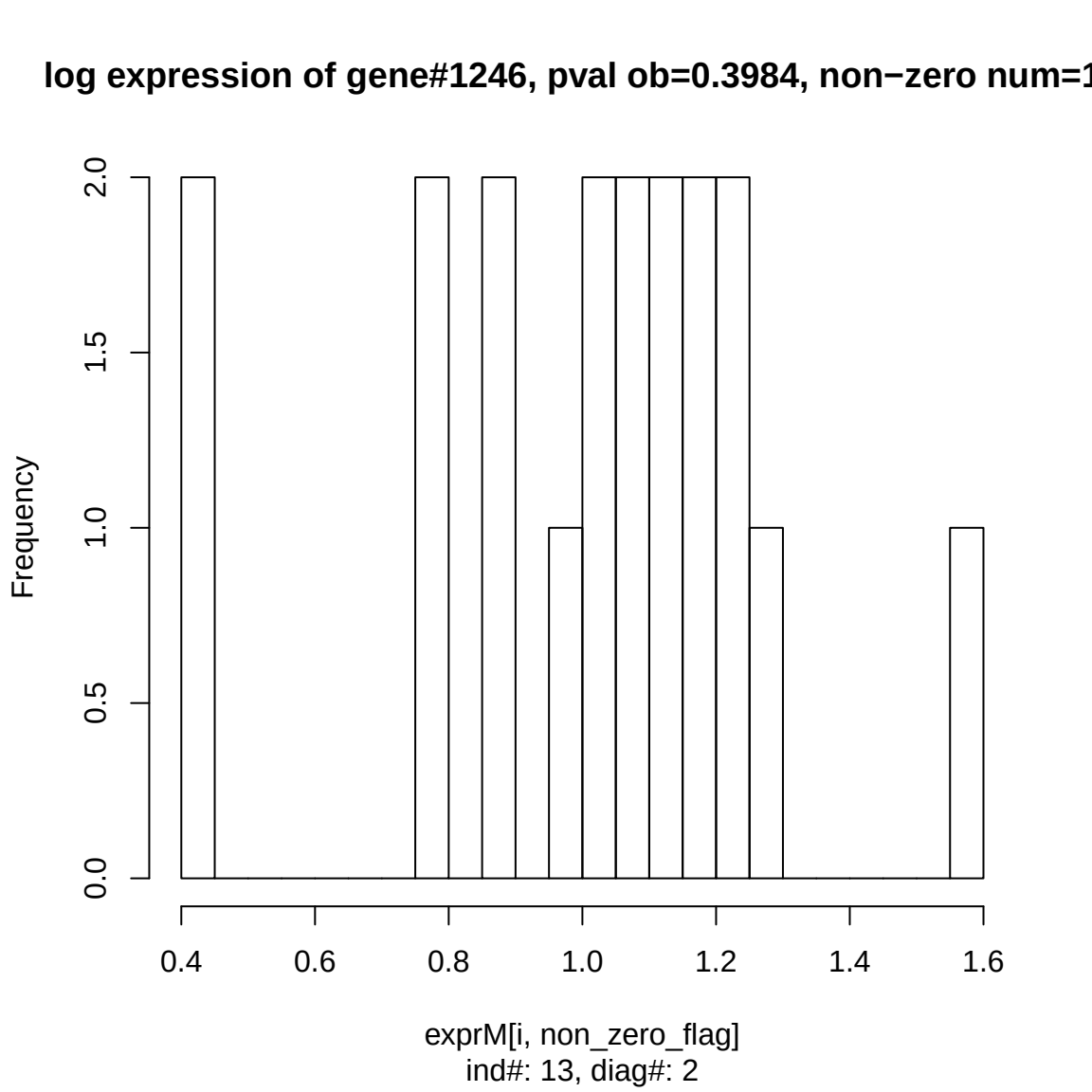

log expression of gene#680, pval ob=0.669, non−zero num=82
Frequency
0
2
4
6
8
10
0.5
1.0
1.5
2.0
2.5
exprM[i, non_zero_flag]
ind#: 23, diag#: 2

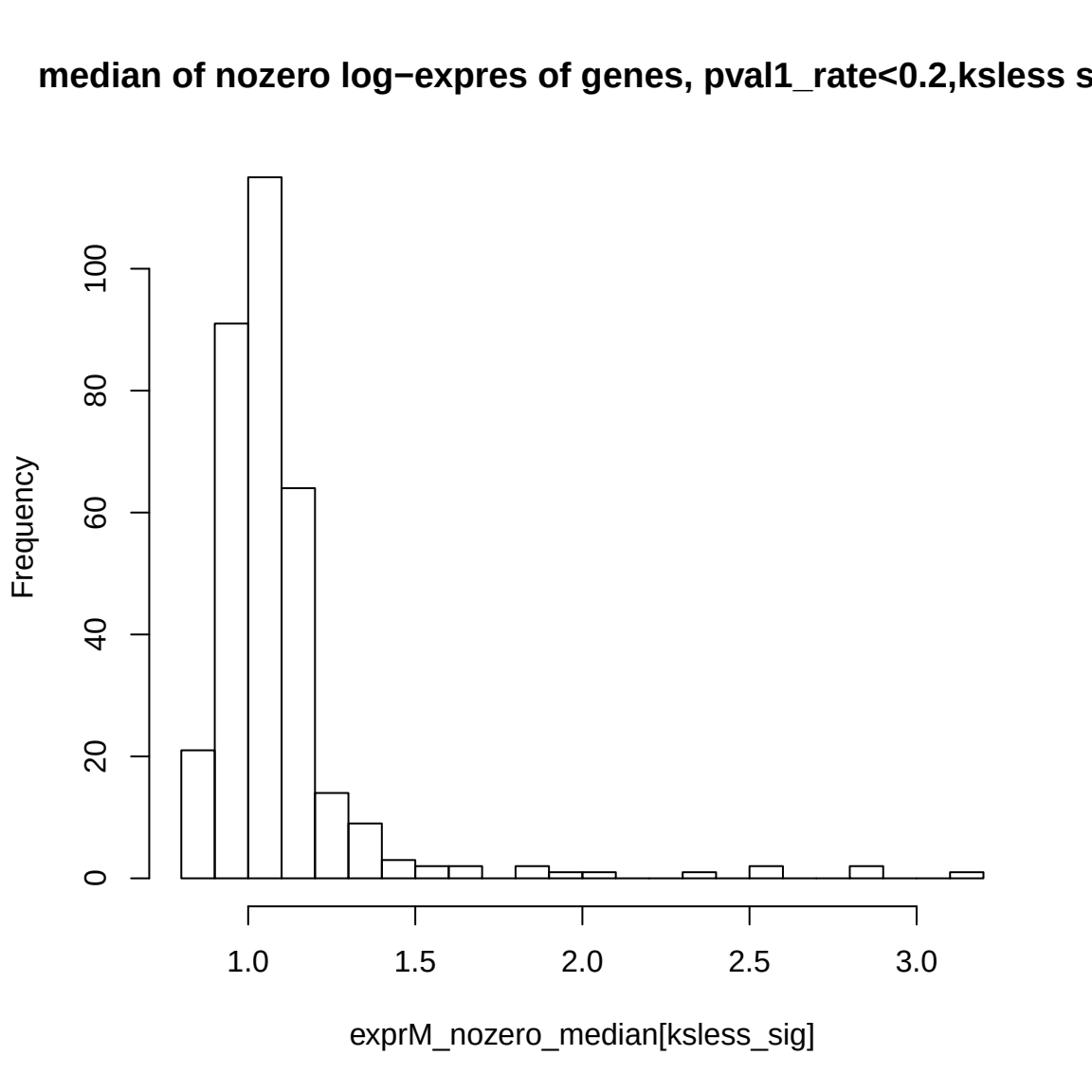

log expression of gene#750, pval ob=0.4024, non−zero num=3
Frequency
0
1
2
3
4
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
exprM[i, non_zero_flag]
ind#: 17, diag#: 2

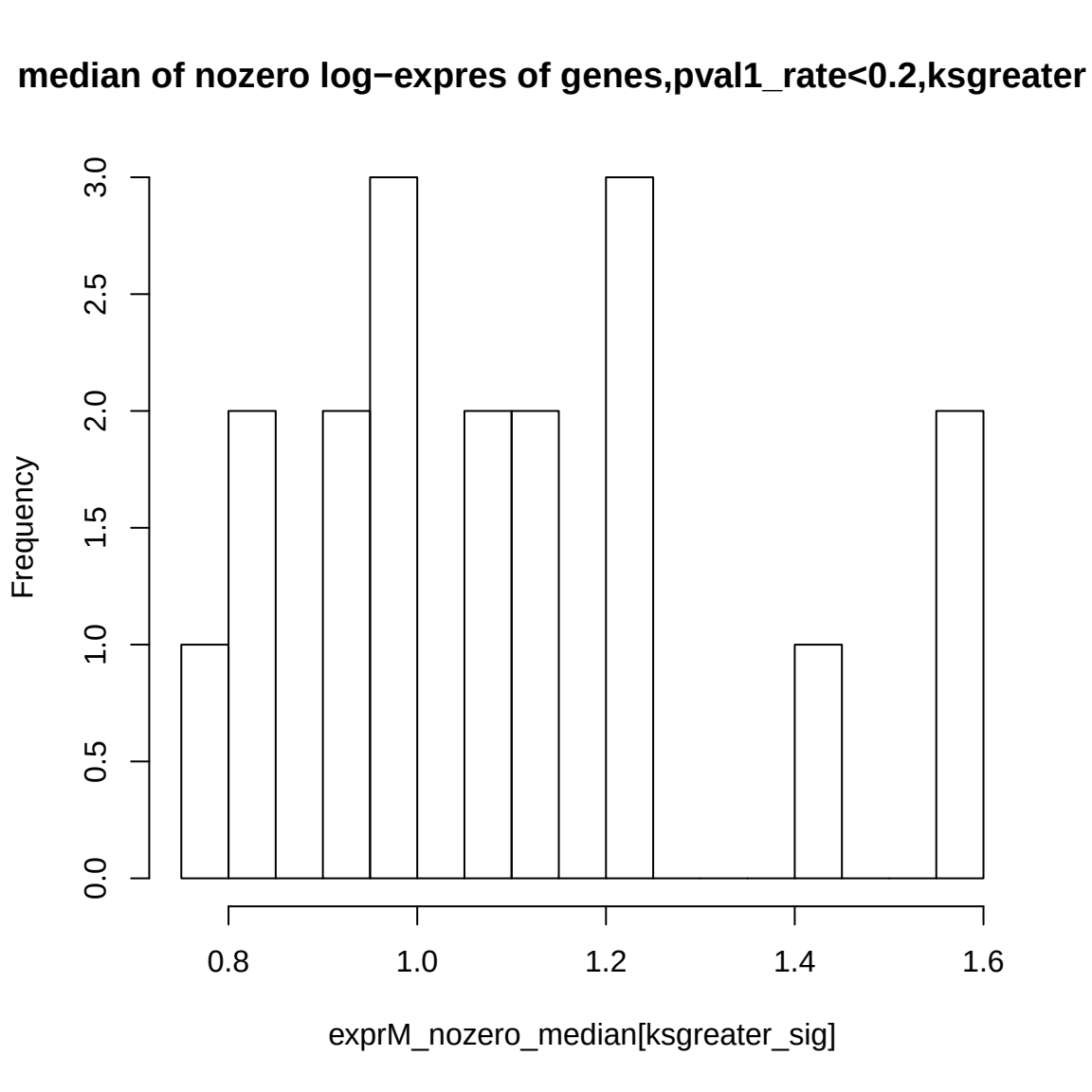

log expression of gene#2565, pval ob=0.8225, non−zero num=2
Frequency
0
1
2
3
4
5
0.5
1.0
1.5
2.0
exprM[i, non_zero_flag]
ind#: 14, diag#: 2

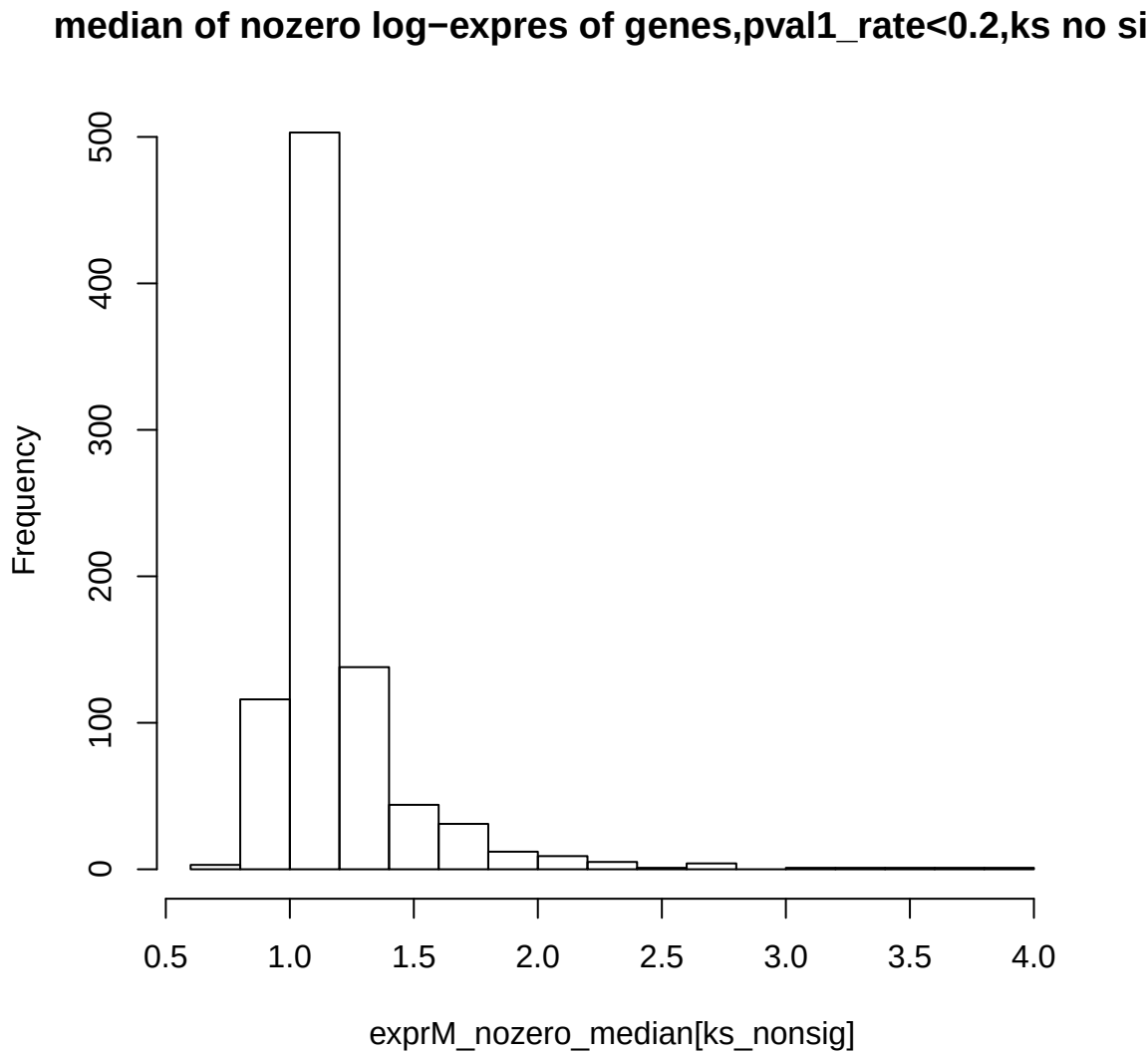

log expression of gene#2613, pval ob=0.0029, non−zero num=1
Frequency
0.0
0.5
1.0
1.5
2.0
0.8
1.0
1.2
1.4
exprM[i, non_zero_flag]
ind#: 12, diag#: 2

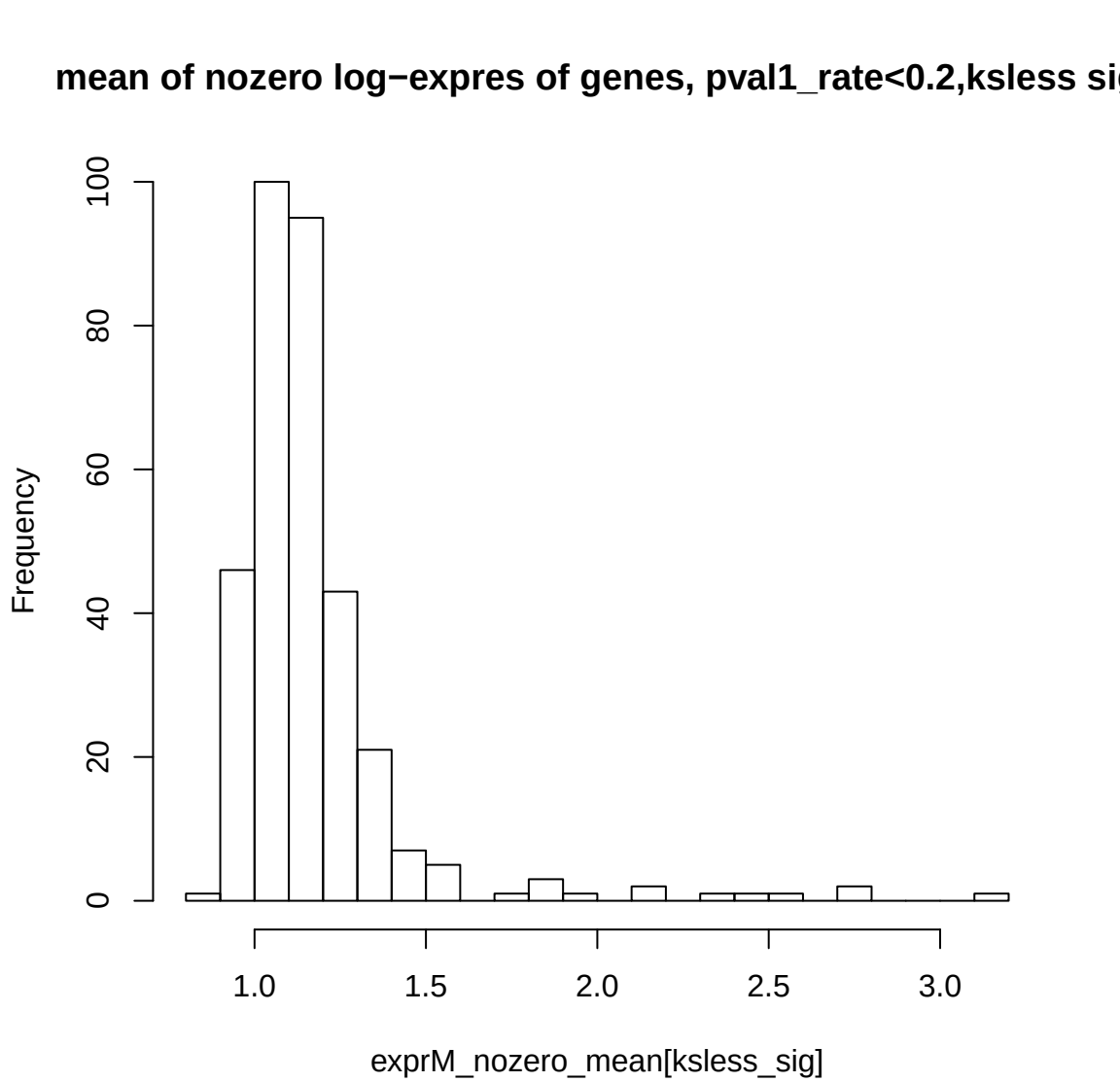

log expression of gene#1892, pval ob=0.0018, non−zero num=2
Frequency
0
1
2
3
4
0.5
1.0
1.5
2.0
exprM[i, non_zero_flag]
ind#: 11, diag#: 2

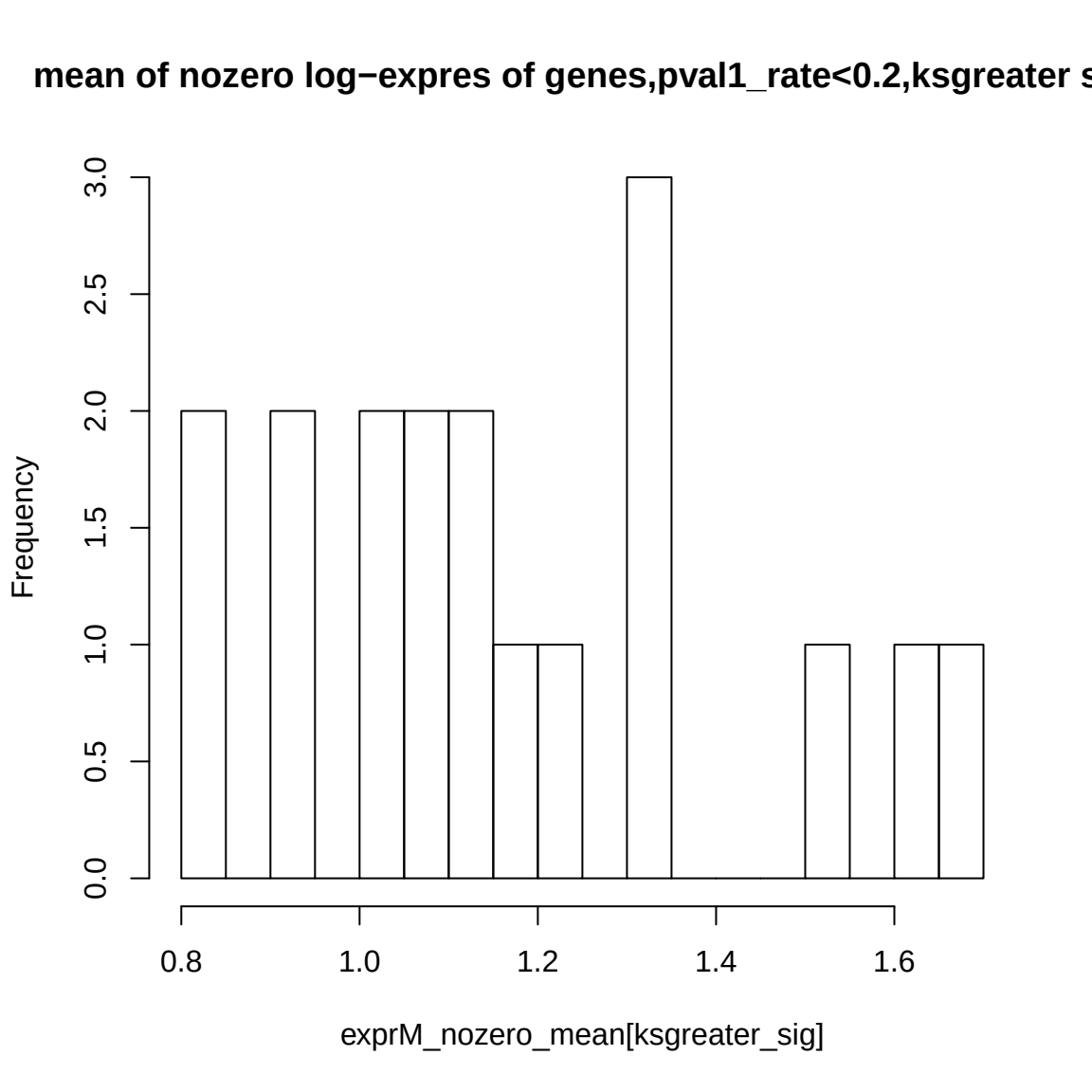

log expression of gene#1246, pval ob=0.3984, non−zero num=1
Frequency
0.0
0.5
1.0
1.5
2.0
0.4
0.6
0.8
1.0
1.2
1.4
1.6
exprM[i, non_zero_flag]
ind#: 13, diag#: 2

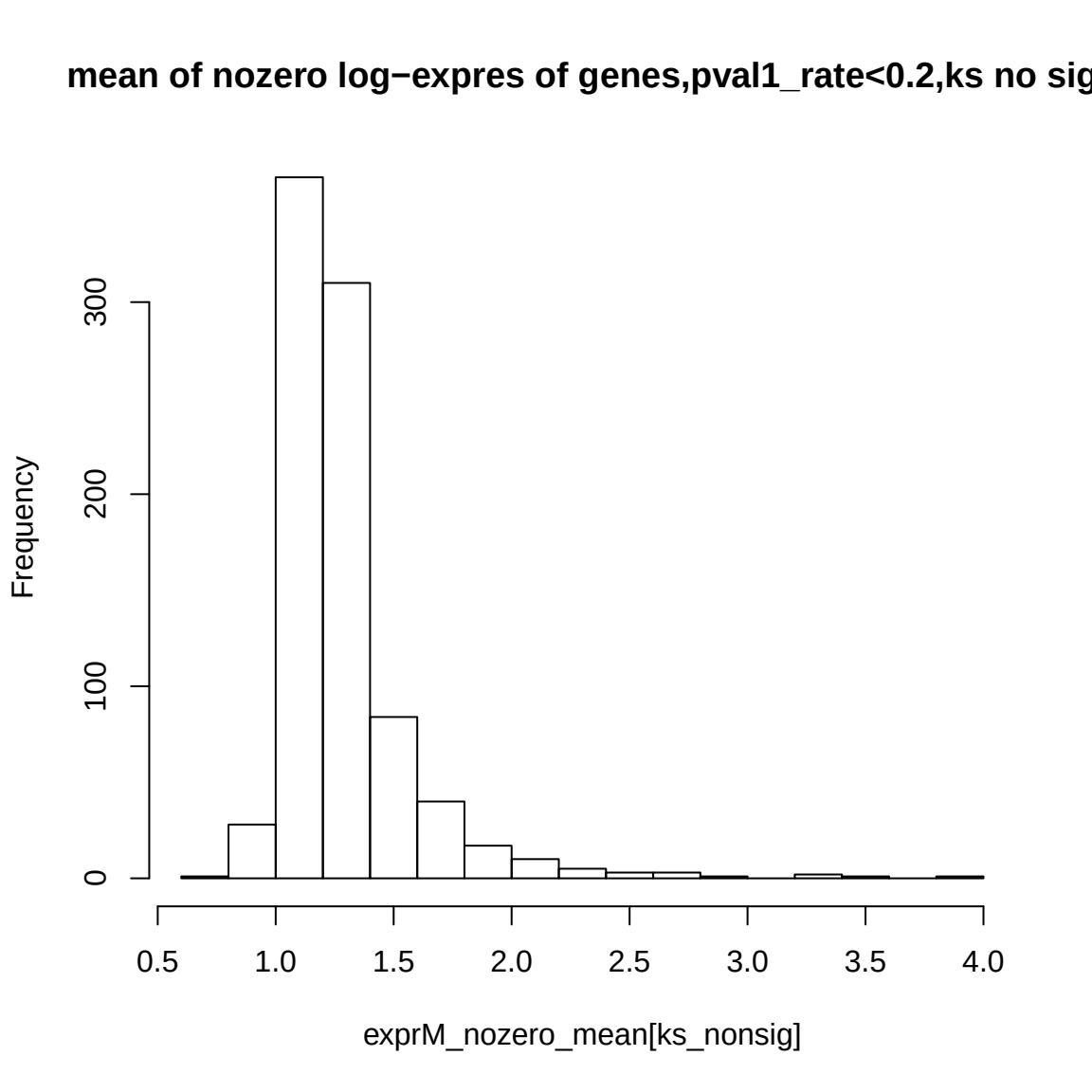

median of nozero log−expres of genes, pval1_rate<0.2,ksless s
Frequency
0
20
40
60
80
100
1.0
1.5
2.0
2.5
3.0
exprM_nozero_median[ksless_sig]

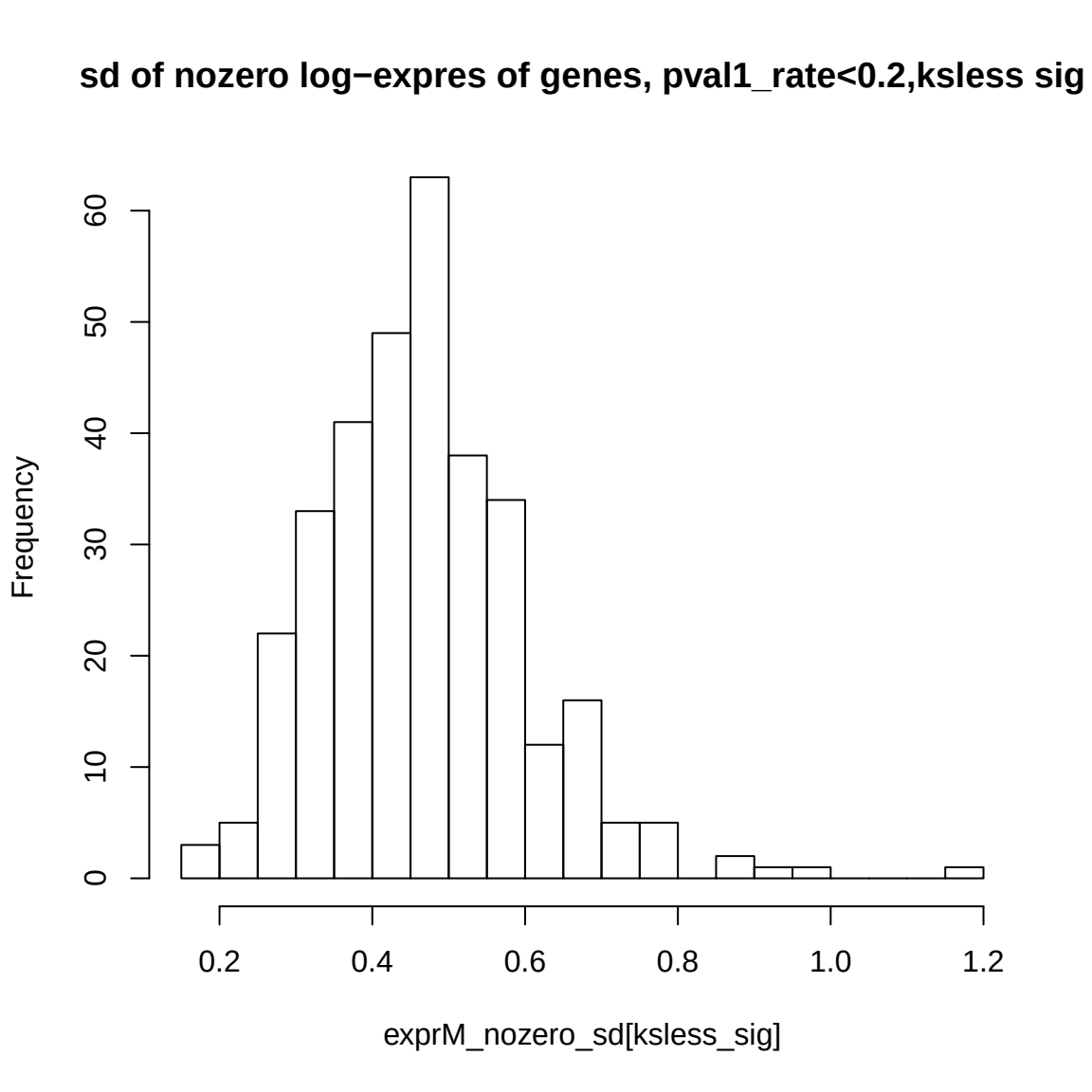

median of nozero log−expres of genes,pval1_rate<0.2,ksgreater
Frequency
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0.8
1.0
1.2
1.4
1.6
exprM_nozero_median[ksgreater_sig]

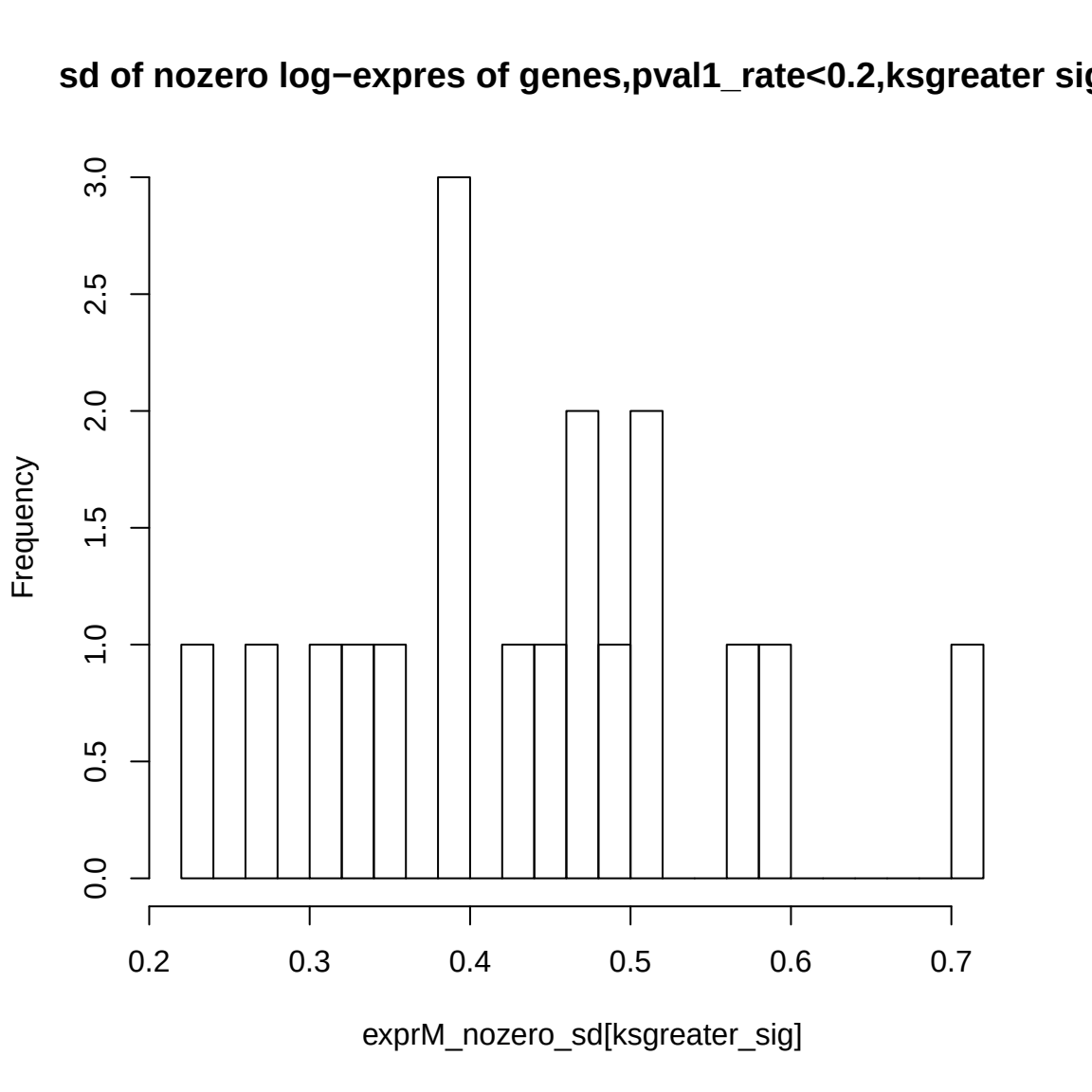

median of nozero log−expres of genes,pval1_rate<0.2,ks no si
Frequency
0
100
200
300
400
500
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
exprM_nozero_median[ks_nonsig]

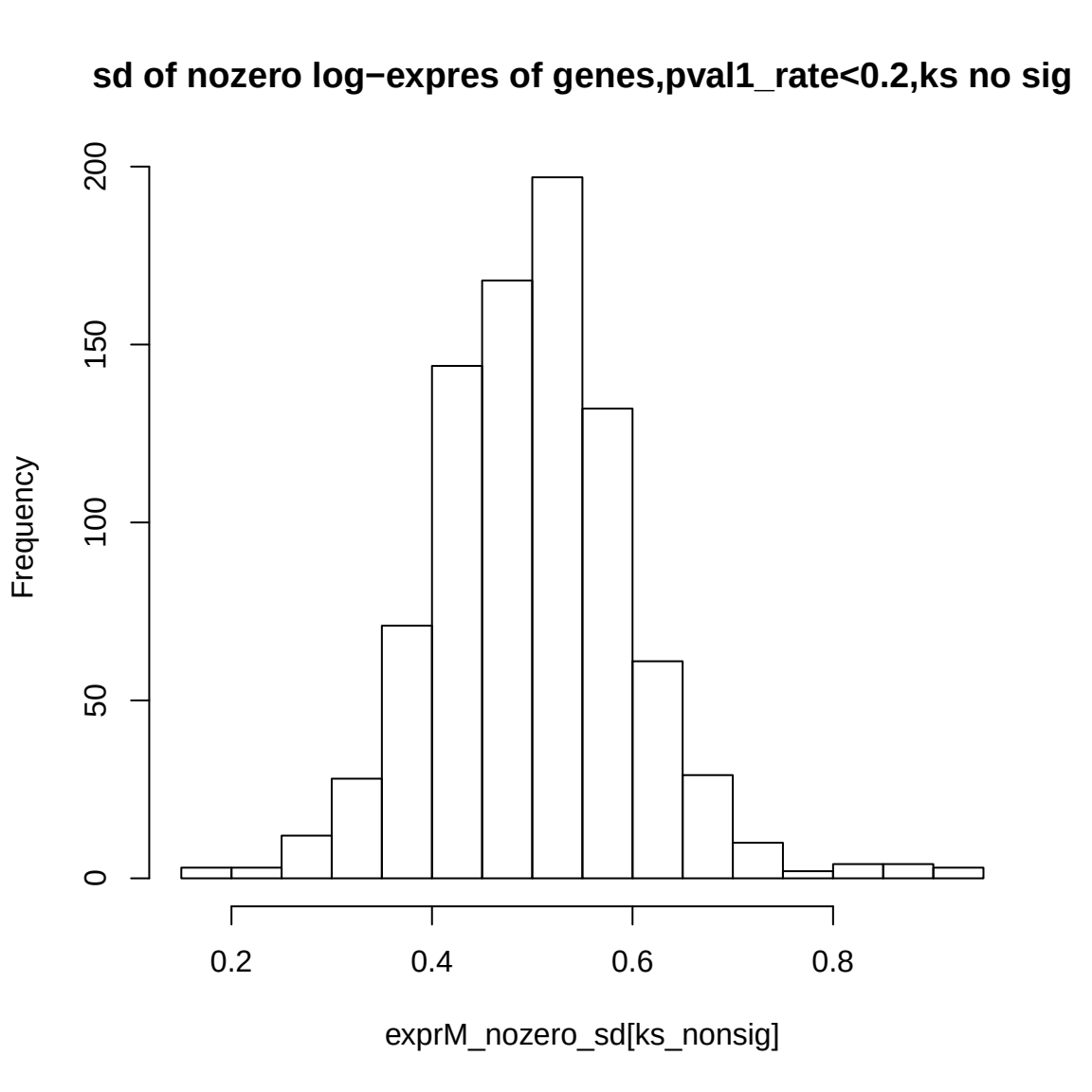

mean of nozero log−expres of genes, pval1_rate<0.2,ksless si
Frequency
0
20
40
60
80
100
1.0
1.5
2.0
2.5
3.0
exprM_nozero_mean[ksless_sig]

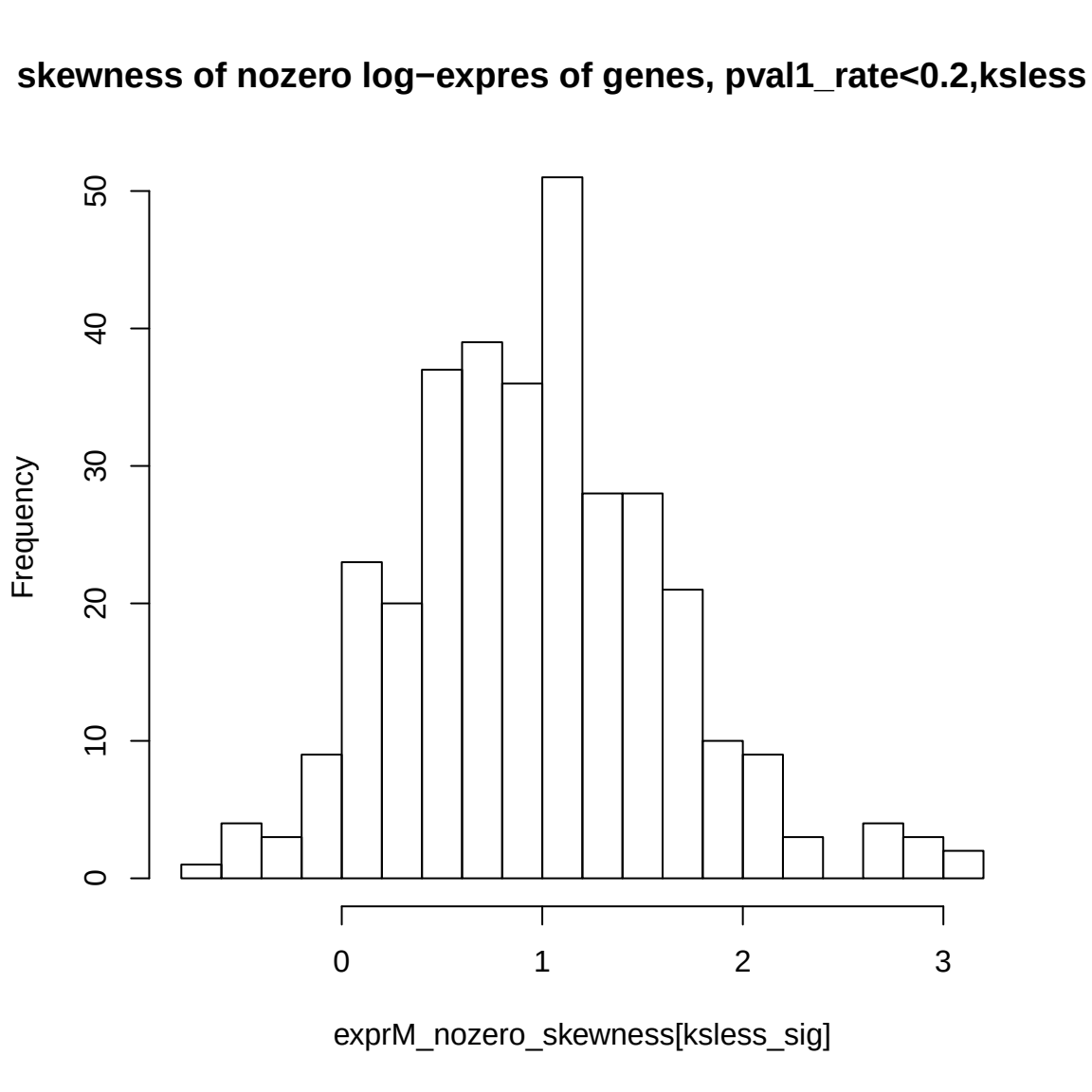

mean of nozero log−expres of genes,pval1_rate<0.2,ksgreater s
Frequency
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0.8
1.0
1.2
1.4
1.6
exprM_nozero_mean[ksgreater_sig]

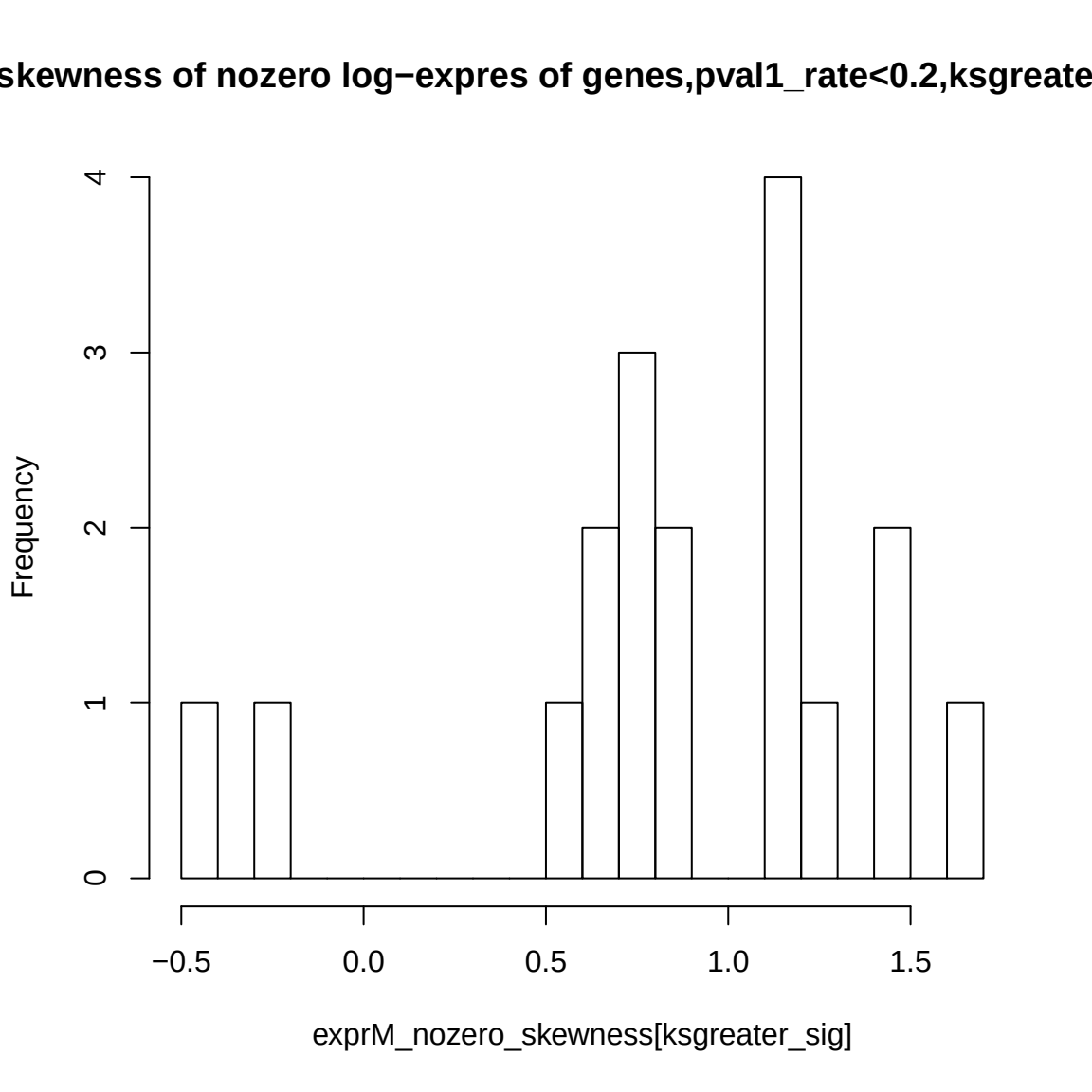

mean of nozero log−expres of genes,pval1_rate<0.2,ks no sig
Frequency
0
100
200
300
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
exprM_nozero_mean[ks_nonsig]

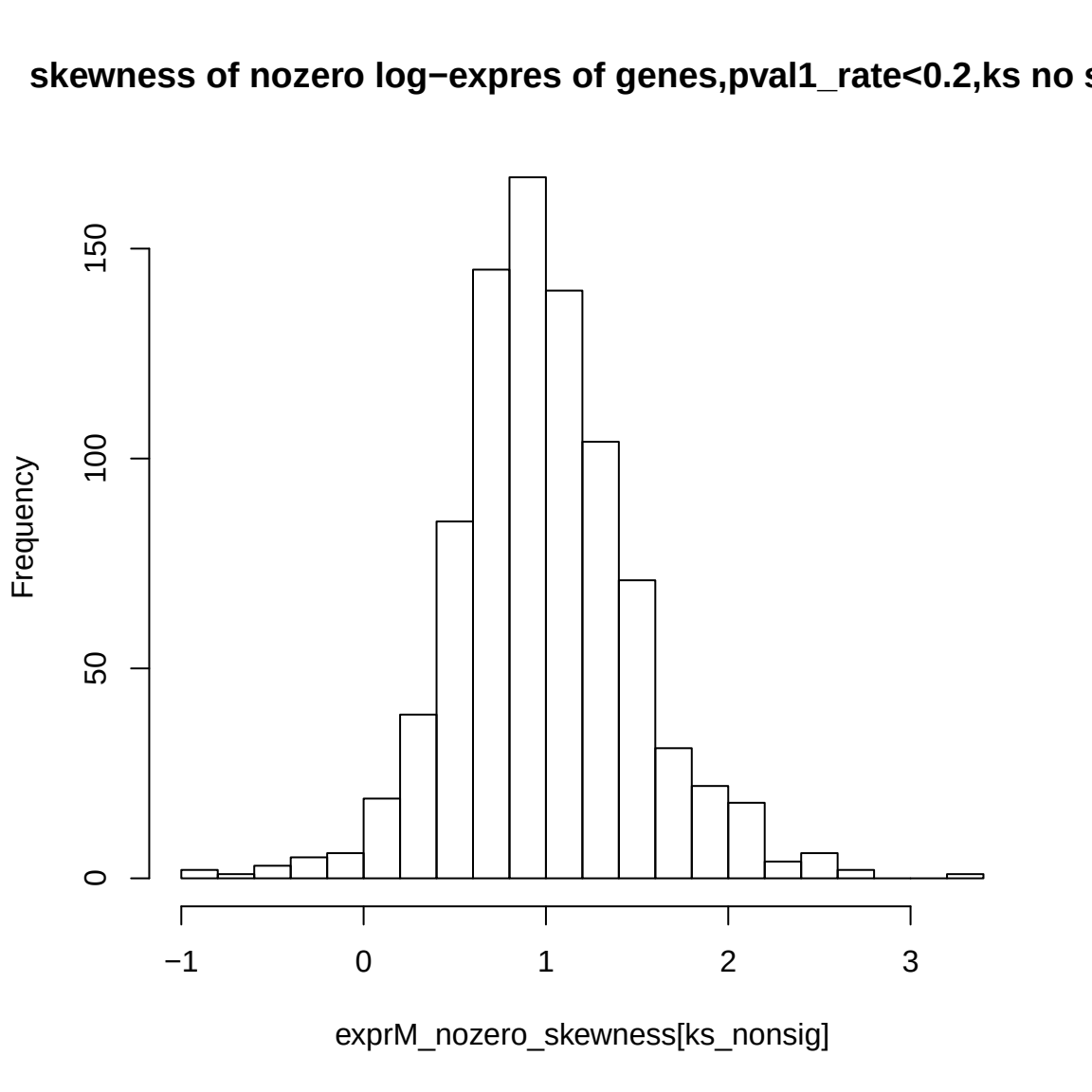

sd of nozero log−expres of genes, pval1_rate<0.2,ksless sig
Frequency
0
10
20
30
40
50
60
0.2
0.4
0.6
0.8
1.0
1.2
exprM_nozero_sd[ksless_sig]

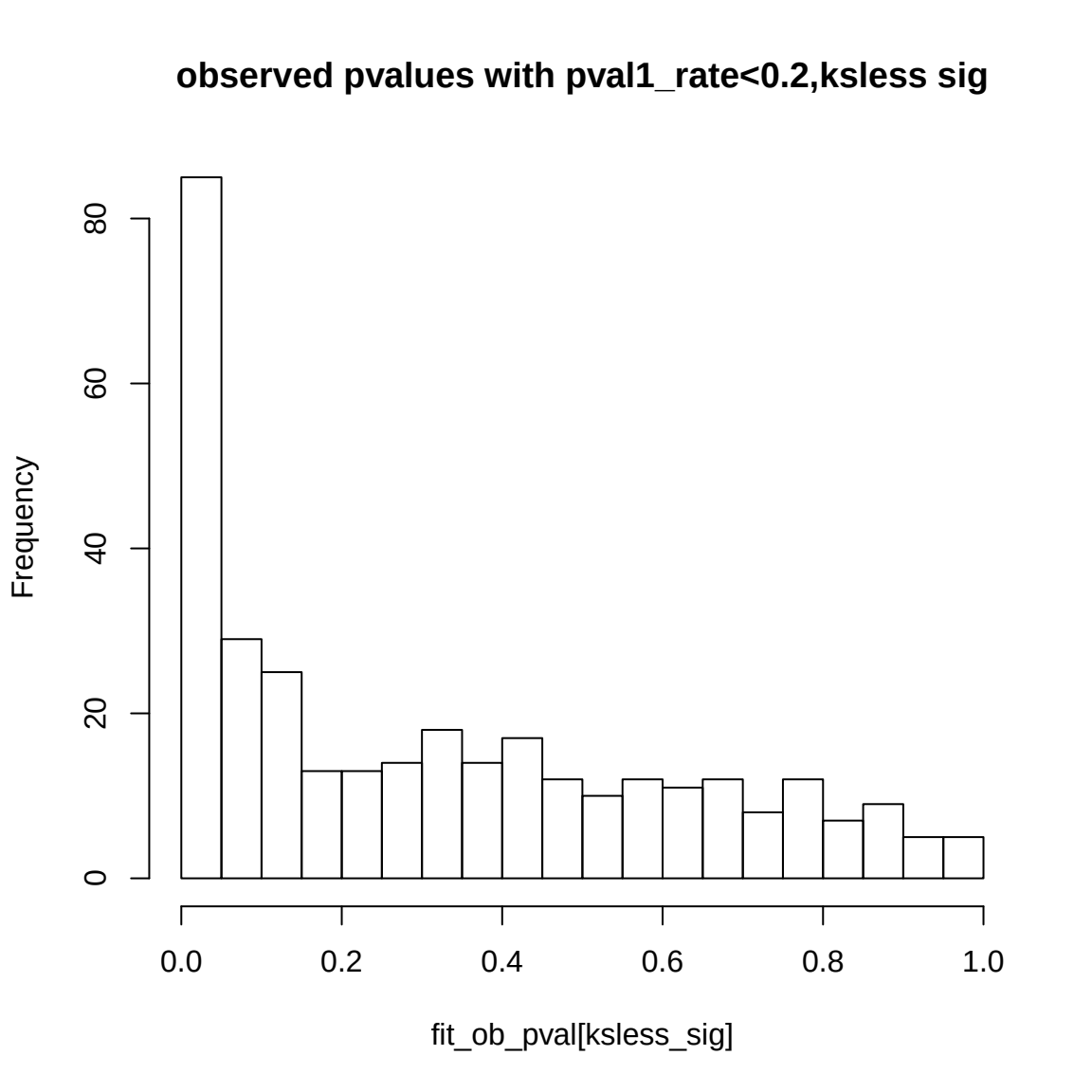

sd of nozero log−expres of genes,pval1_rate<0.2,ksgreater sig
Frequency
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0.2
0.3
0.4
0.5
0.6
0.7
exprM_nozero_sd[ksgreater_sig]

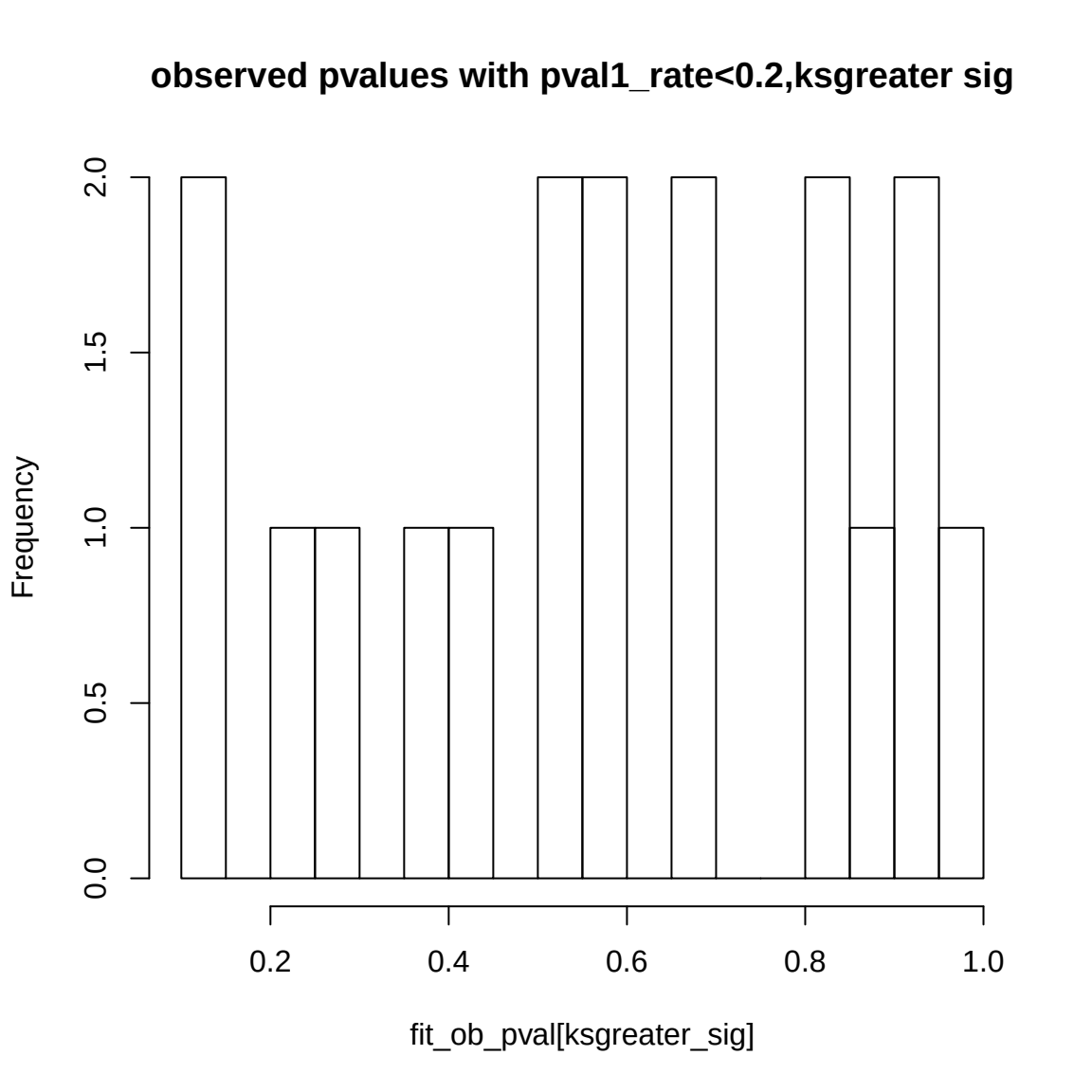

sd of nozero log−expres of genes,pval1_rate<0.2,ks no sig
Frequency
0
50
100
150
200
0.2
0.4
0.6
0.8
exprM_nozero_sd[ks_nonsig]

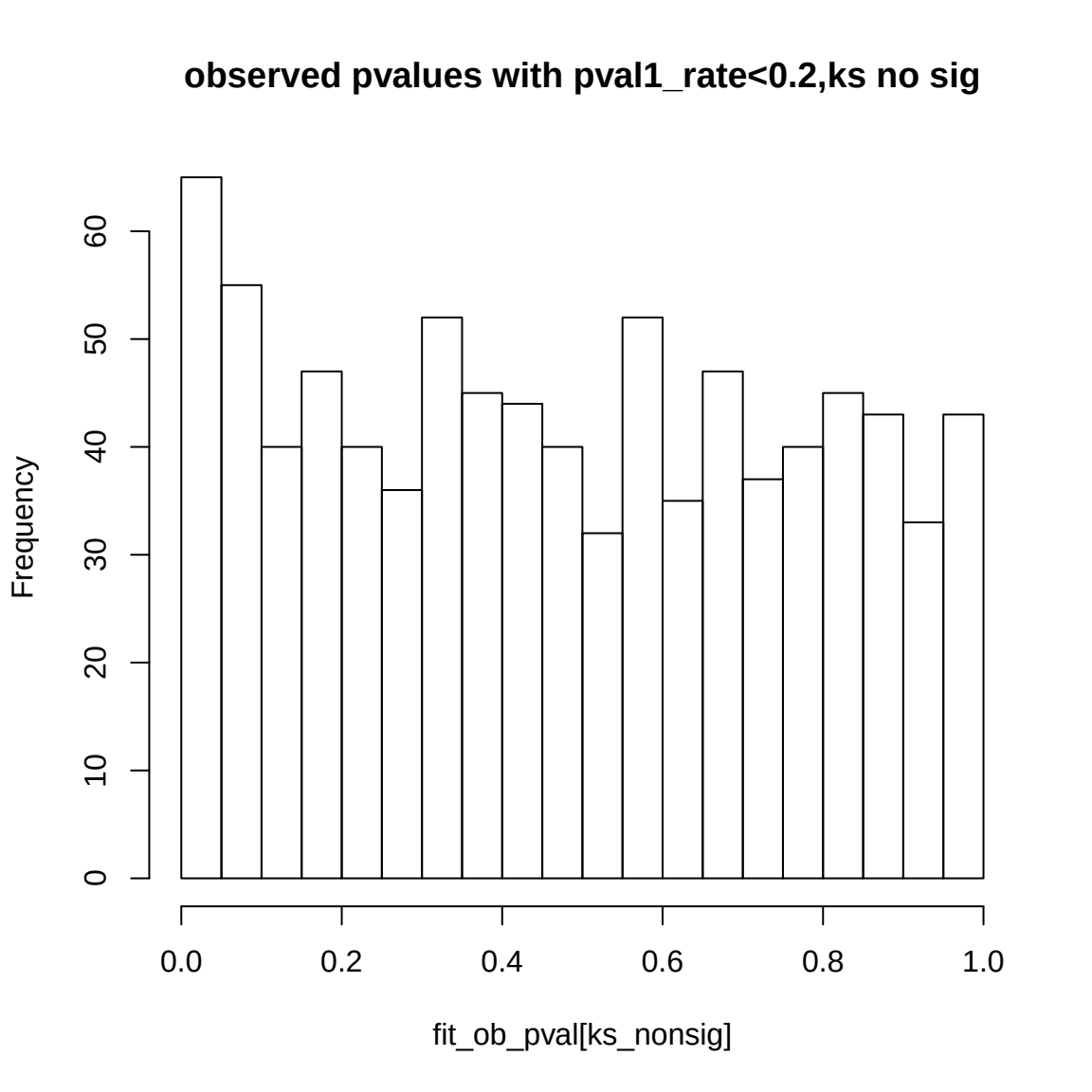

skewness of nozero log−expres of genes, pval1_rate<0.2,ksless
Frequency
0
10
20
30
40
50
0
1
2
3
exprM_nozero_skewness[ksless_sig]

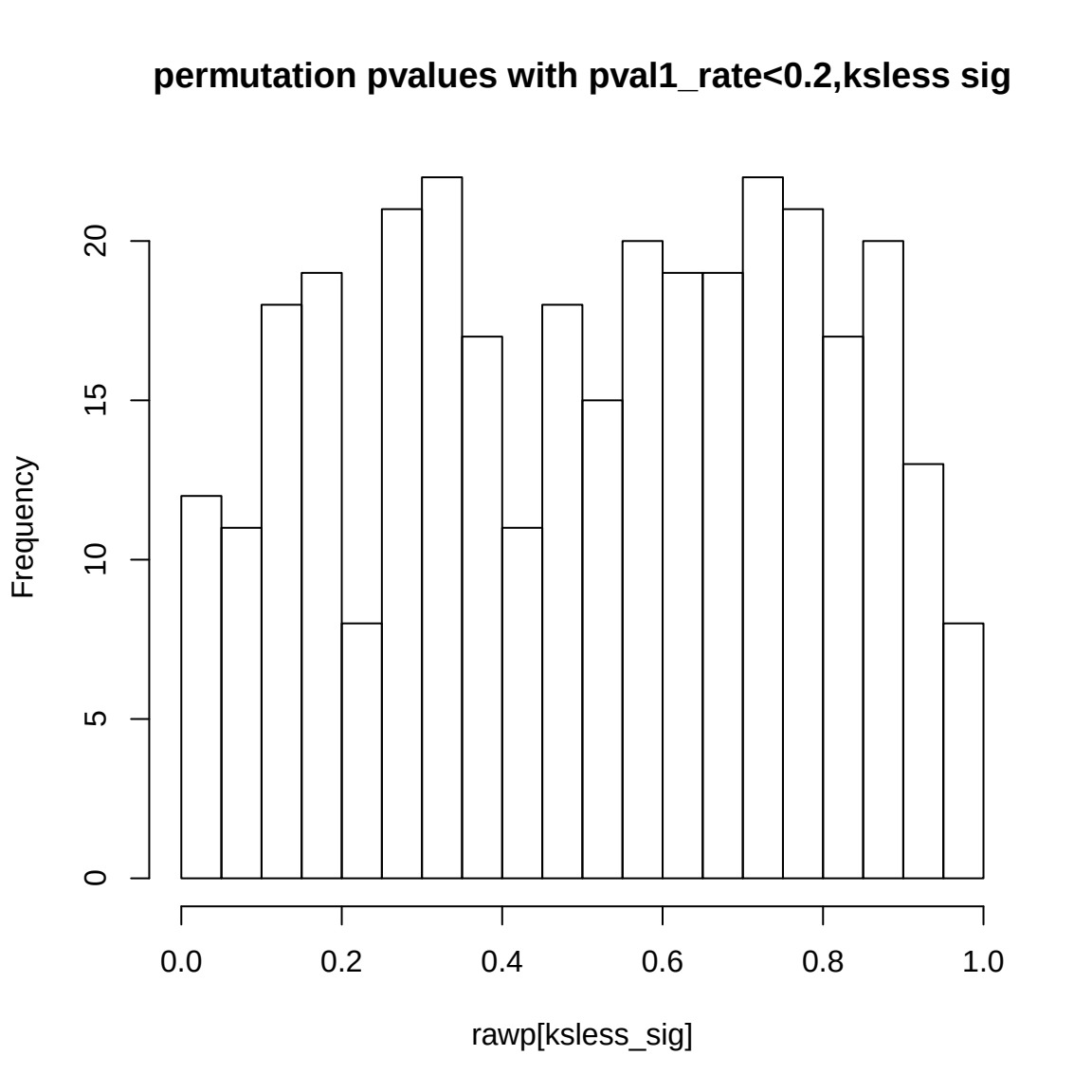

skewness of nozero log−expres of genes,pval1_rate<0.2,ksgreate
Frequency
0
1
2
3
4
−0.5
0.0
0.5
1.0
1.5
exprM_nozero_skewness[ksgreater_sig]

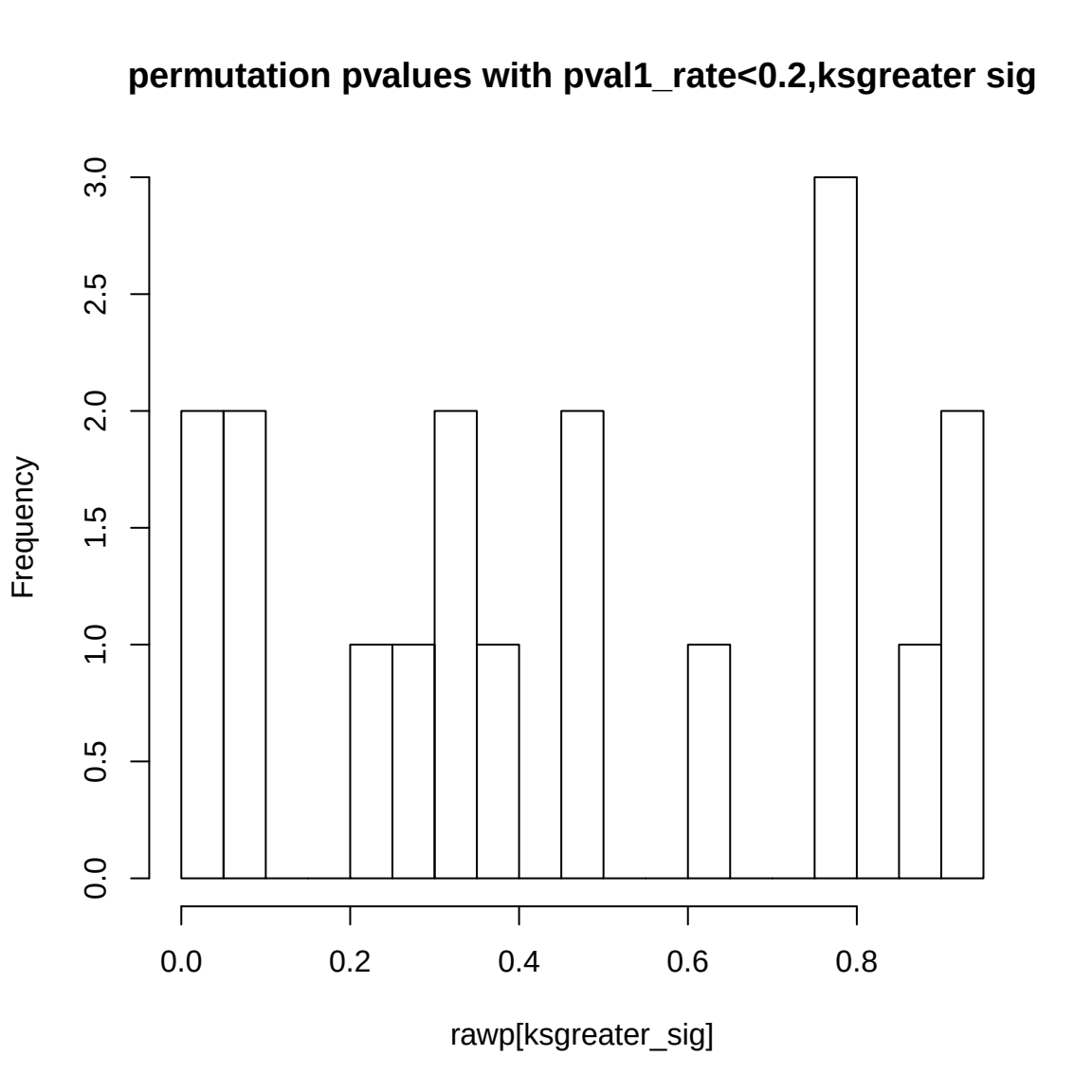

skewness of nozero log−expres of genes,pval1_rate<0.2,ks no s
Frequency
0
50
100
150
−1
0
1
2
3
exprM_nozero_skewness[ks_nonsig]

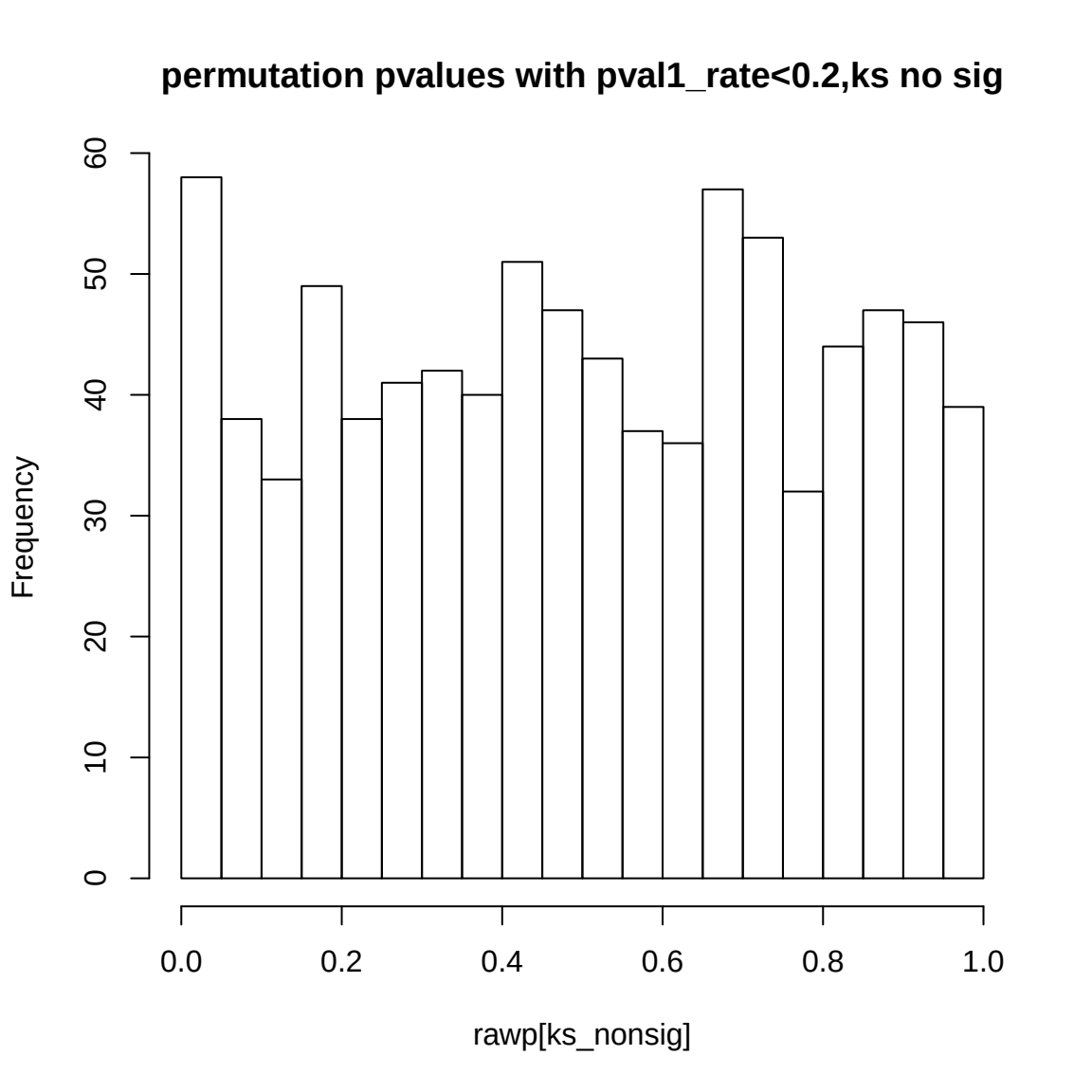

observed pvalues with pval1_rate<0.2,ksless sig
Frequency
0
20
40
60
80
0.0
0.2
0.4
0.6
0.8
1.0
fit_ob_pval[ksless_sig]

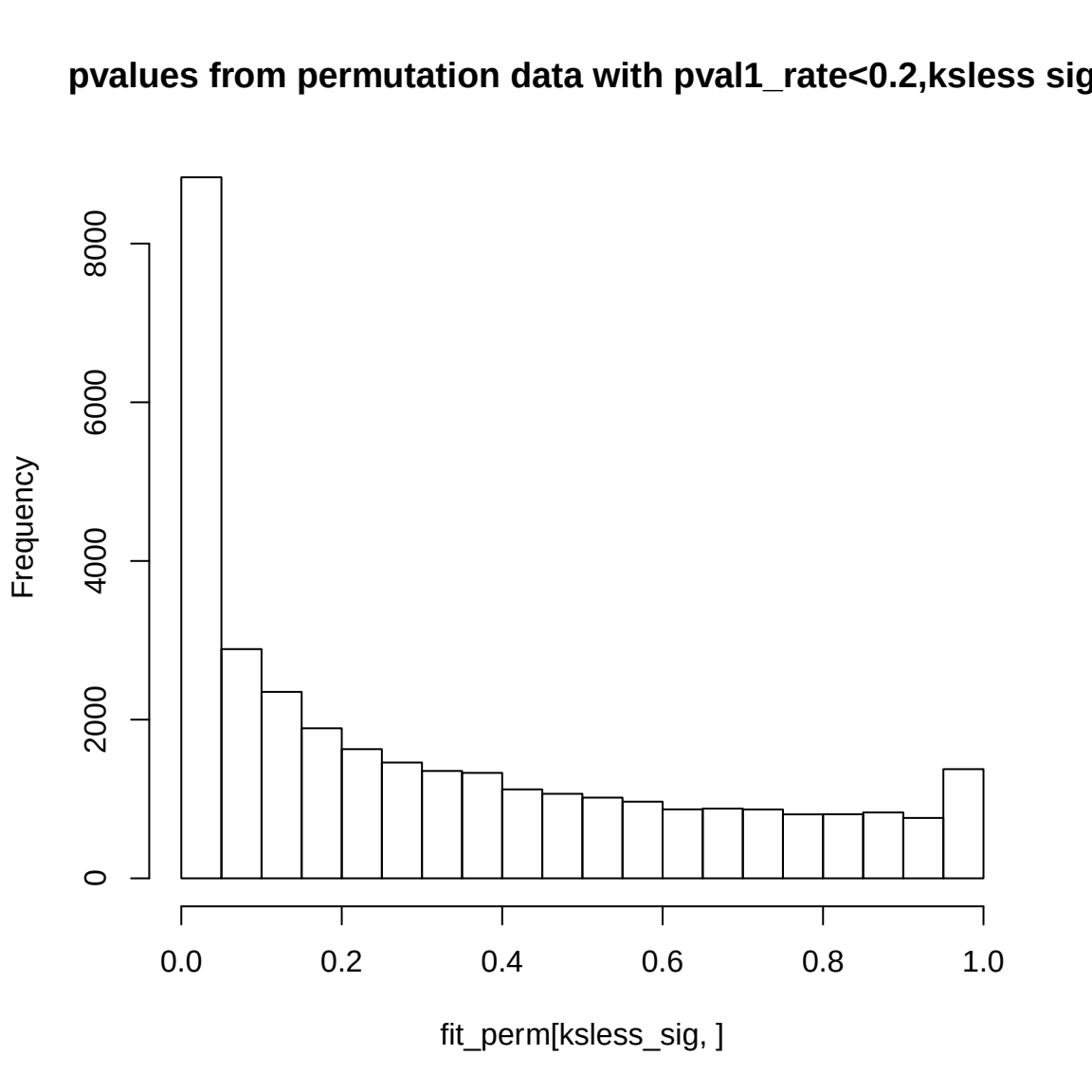

observed pvalues with pval1_rate<0.2,ksgreater sig
Frequency
0.0
0.5
1.0
1.5
2.0
0.2
0.4
0.6
0.8
1.0
fit_ob_pval[ksgreater_sig]

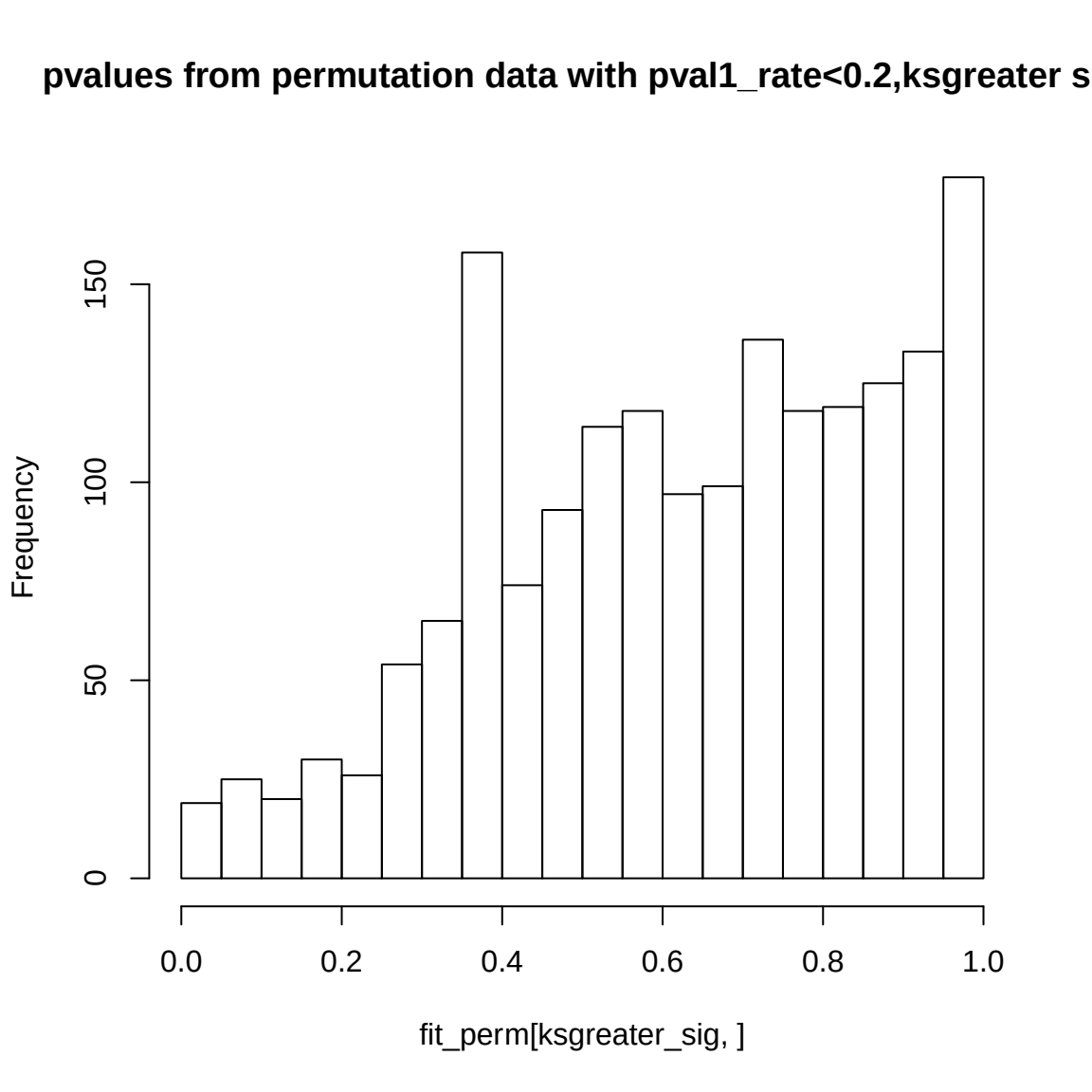

observed pvalues with pval1_rate<0.2,ks no sig
Frequency
0
10
20
30
40
50
60
0.0
0.2
0.4
0.6
0.8
1.0
fit_ob_pval[ks_nonsig]

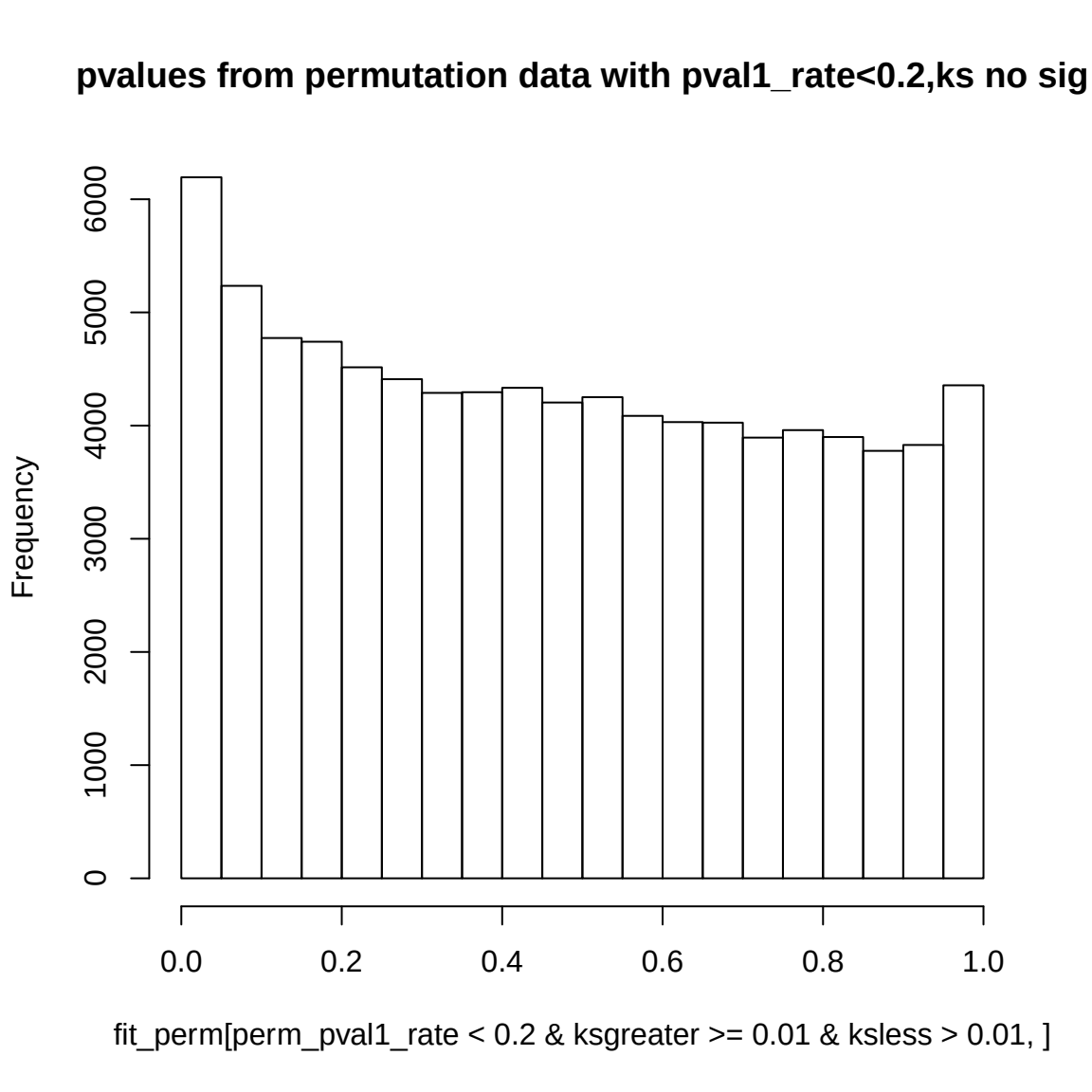

permutation pvalues with pval1_rate<0.2,ksless sig
Frequency
0
5
10
15
20
0.0
0.2
0.4
0.6
0.8
1.0
rawp[ksless_sig]


permutation pvalues with pval1_rate<0.2,ksgreater sig
Frequency
0.0
0.5
1.0
1.5
2.0
2.5
3.0
0.0
0.2
0.4
0.6
0.8
rawp[ksgreater_sig]


permutation pvalues with pval1_rate<0.2,ks no sig
Frequency
0
10
20
30
40
50
60
0.0
0.2
0.4
0.6
0.8
1.0
rawp[ks_nonsig]


pvalues from permutation data with pval1_rate<0.2,ksless sig
Frequency
0
2000
4000
6000
8000
0.0
0.2
0.4
0.6
0.8
1.0
fit_perm[ksless_sig, ]


pvalues from permutation data with pval1_rate<0.2,ksgreater s
Frequency
0
50
100
150
0.0
0.2
0.4
0.6
0.8
1.0
fit_perm[ksgreater_sig, ]


pvalues from permutation data with pval1_rate<0.2,ks no sig
Frequency
0
1000
2000
3000
4000
5000
6000
0.0
0.2
0.4
0.6
0.8
1.0
fit_perm[perm_pval1_rate < 0.2 & ksgreater >= 0.01 & ksless > 0.01, ]