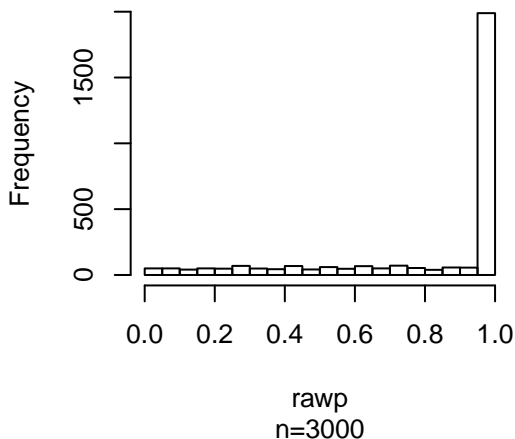
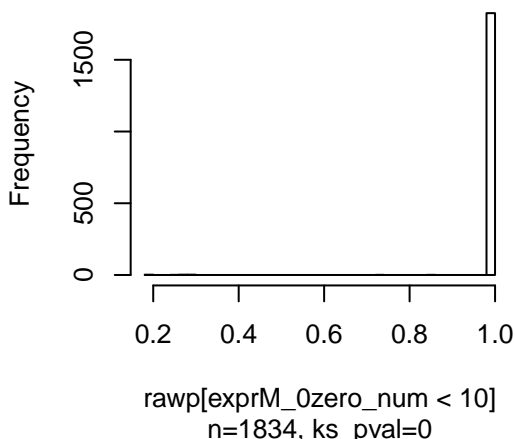


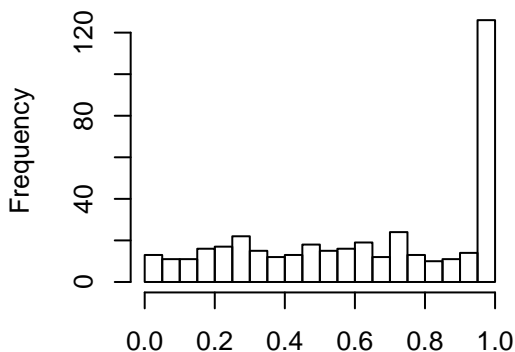
**perm pvalues**



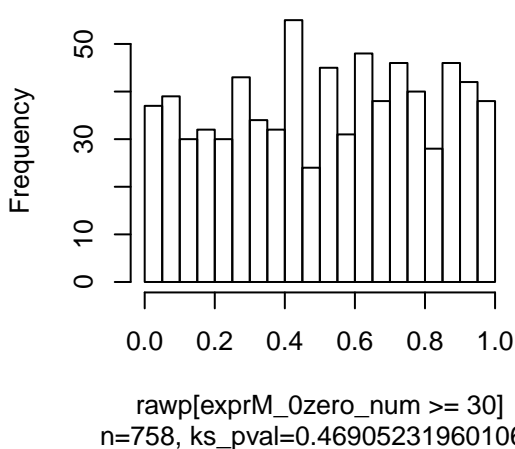
**perm pvalues,exprM\_0zero\_num<1**



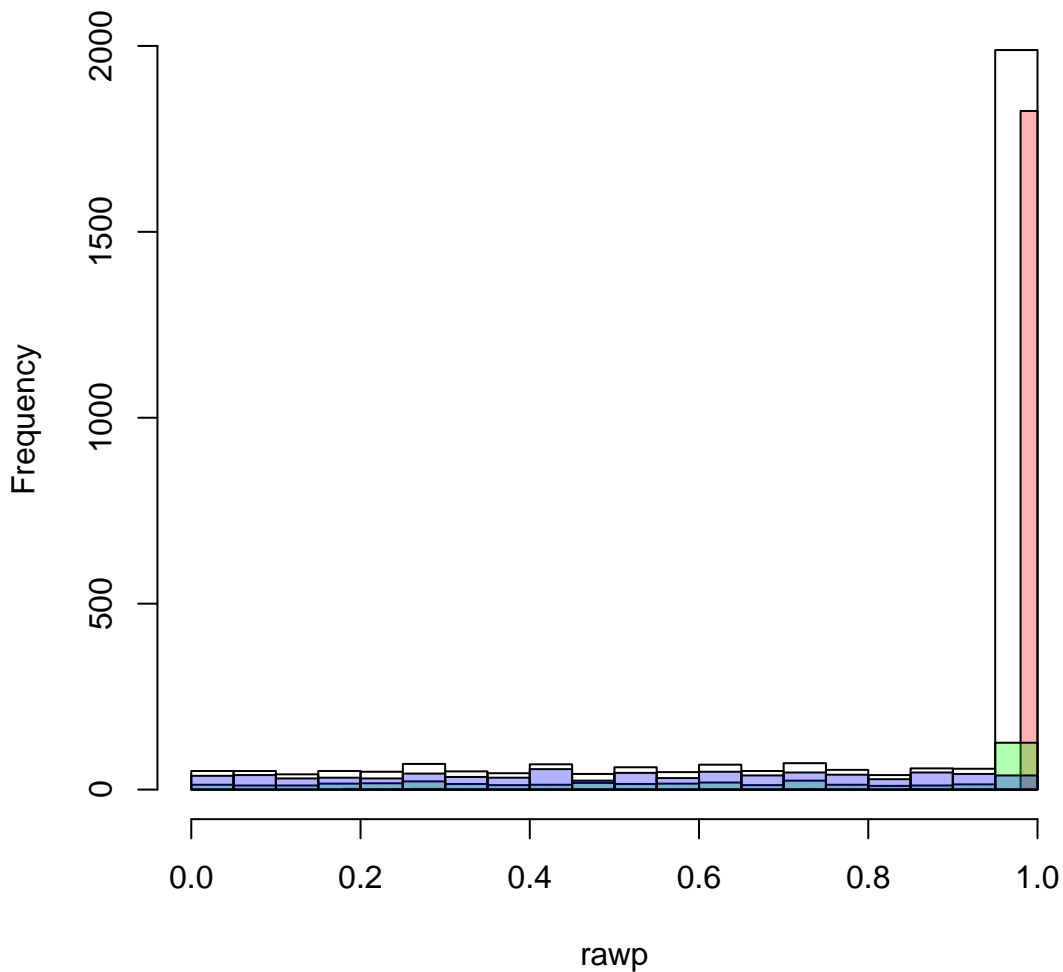
**perm pvalues,exprM\_0zero\_num 10-**



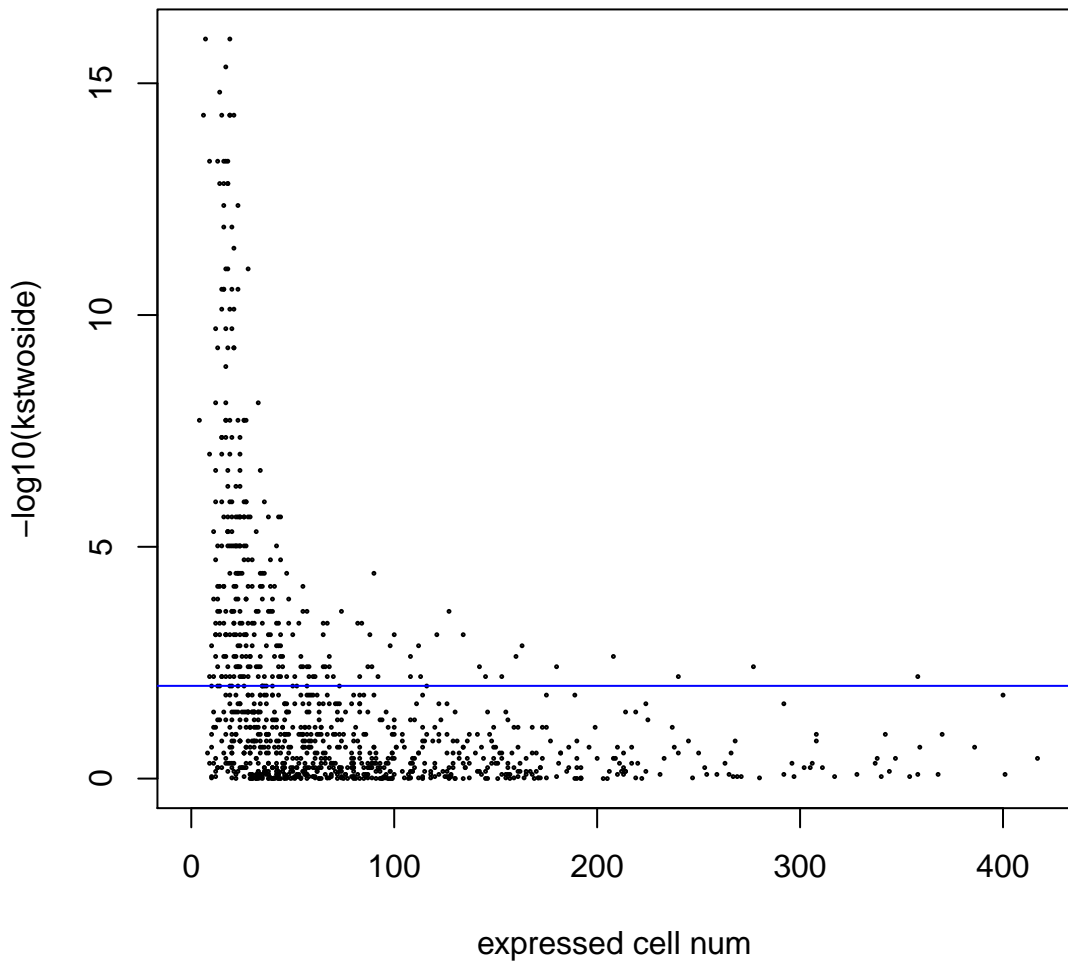
**perm pvalues,exprM\_0zero\_num>3**



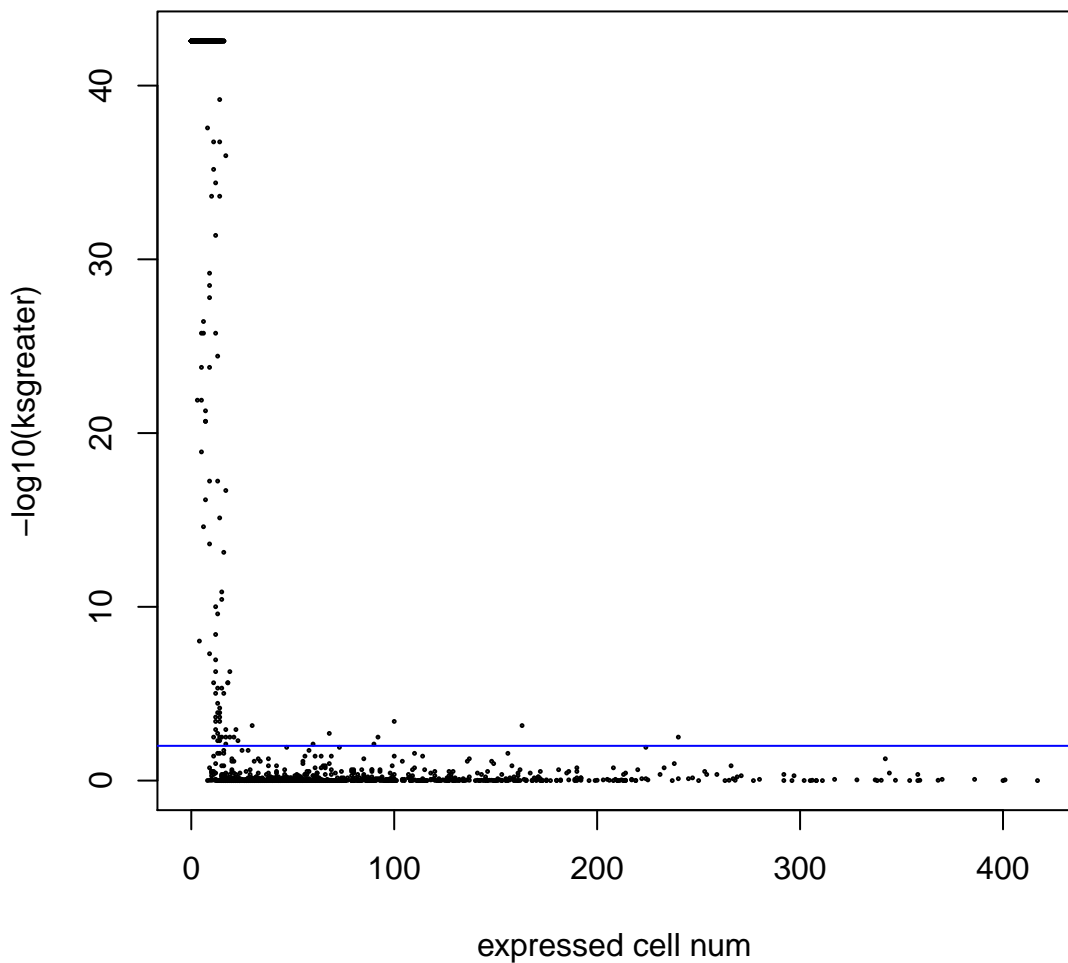
# perm pvalues



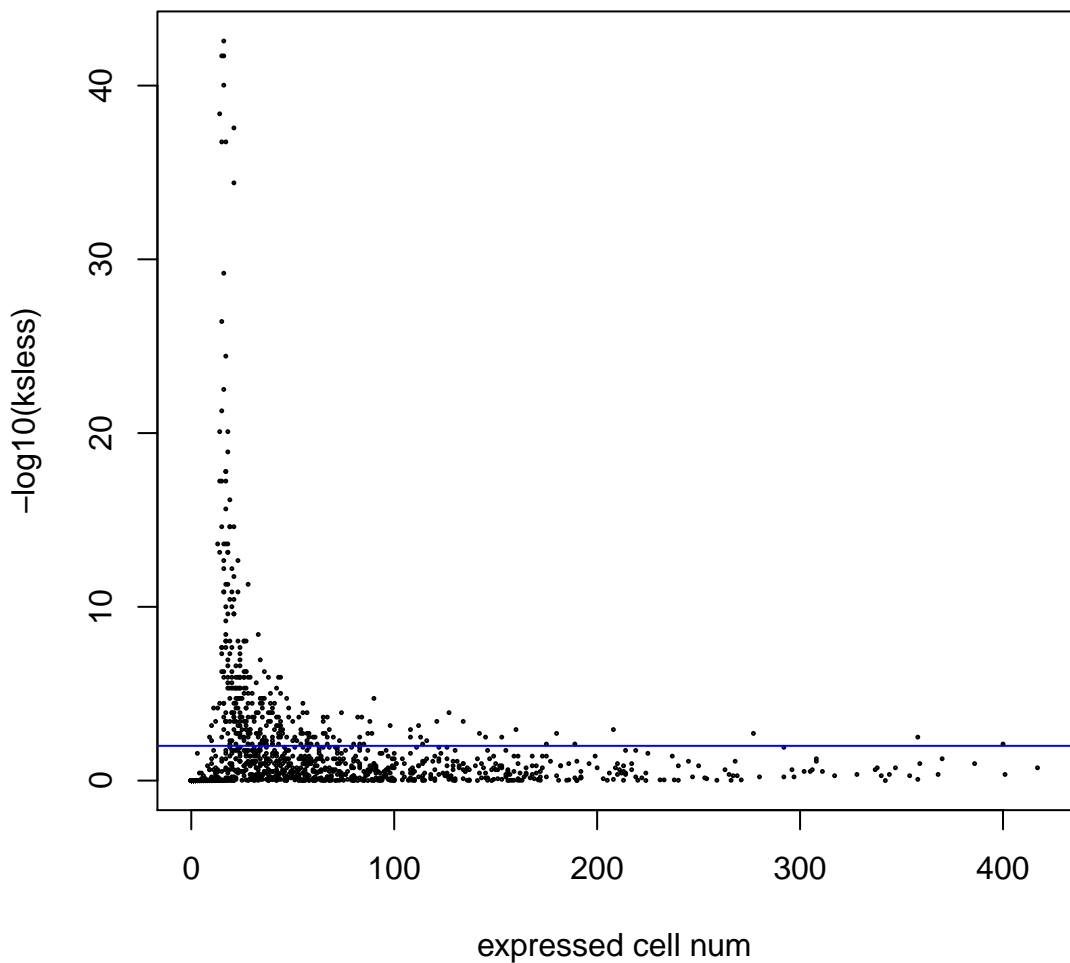
**sig\_KStwoside: 74.967%**



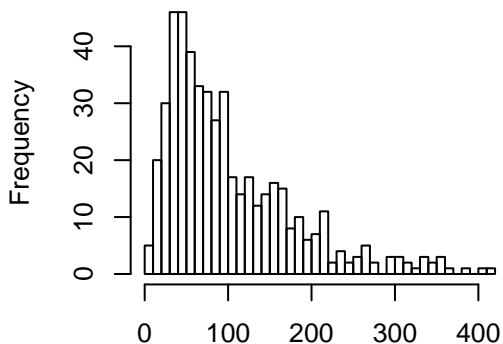
**sig\_KSgreater: 66.167%**



**sig\_KSless: 10.467%**

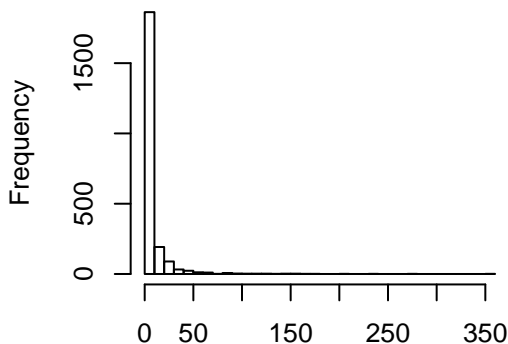


**expression cell num,kstwoside>0.2**



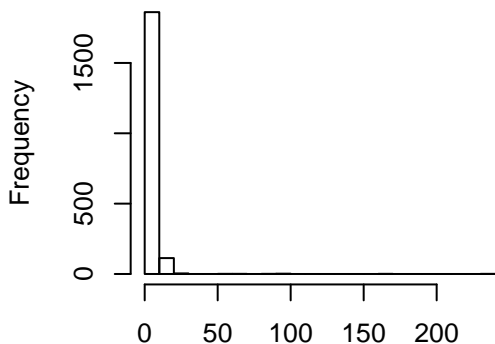
`exprM_0zero_num[kstwoside > 0.2]`

**expression cell num,kstwoside<0.01**



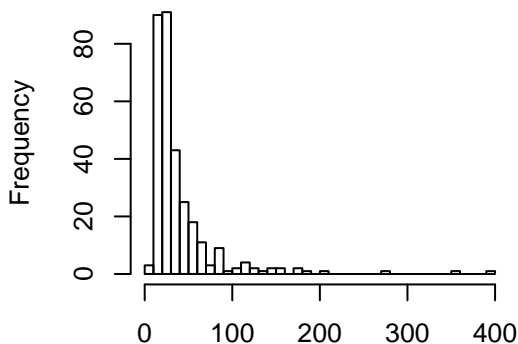
`exprM_0zero_num[kstwoside < 0.01]`

**expression cell num,ksgreater<0.0**



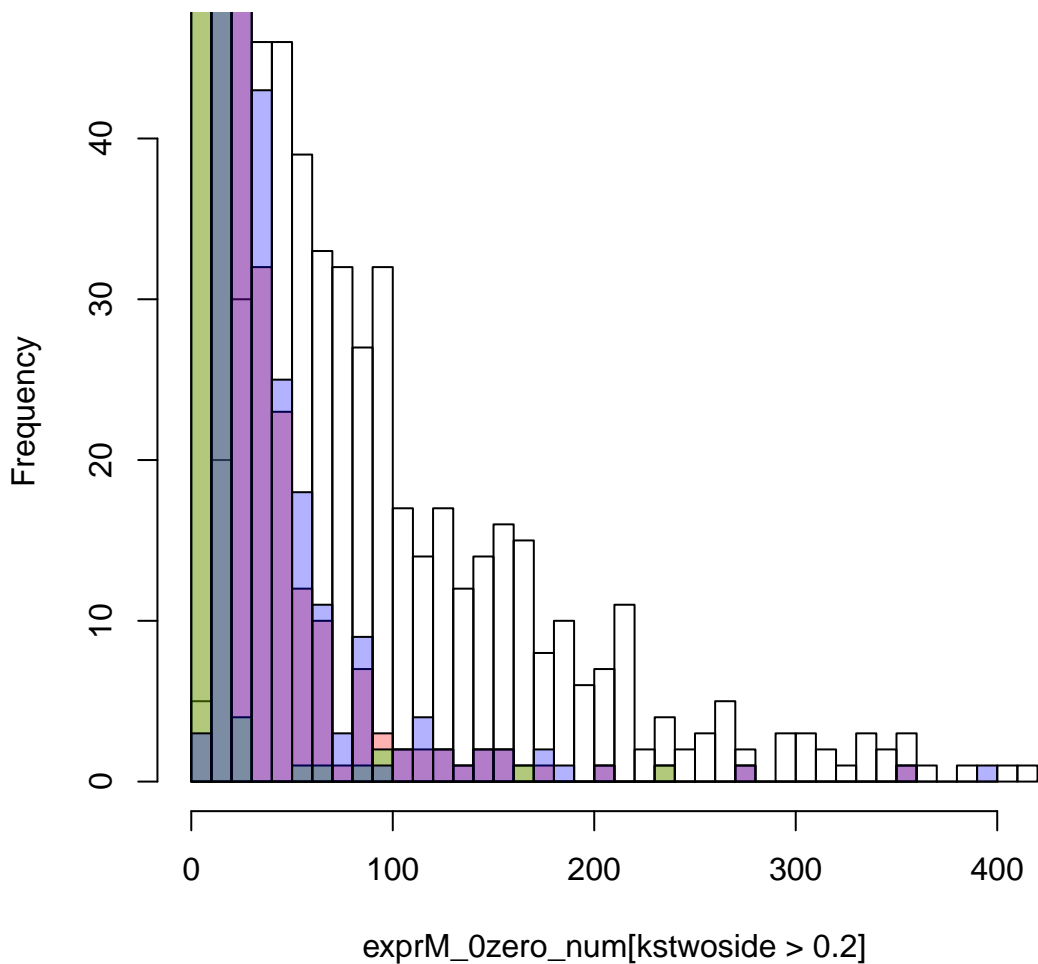
`exprM_0zero_num[ksgreater < 0.01]`

**expression cell num,ksless<0.01**

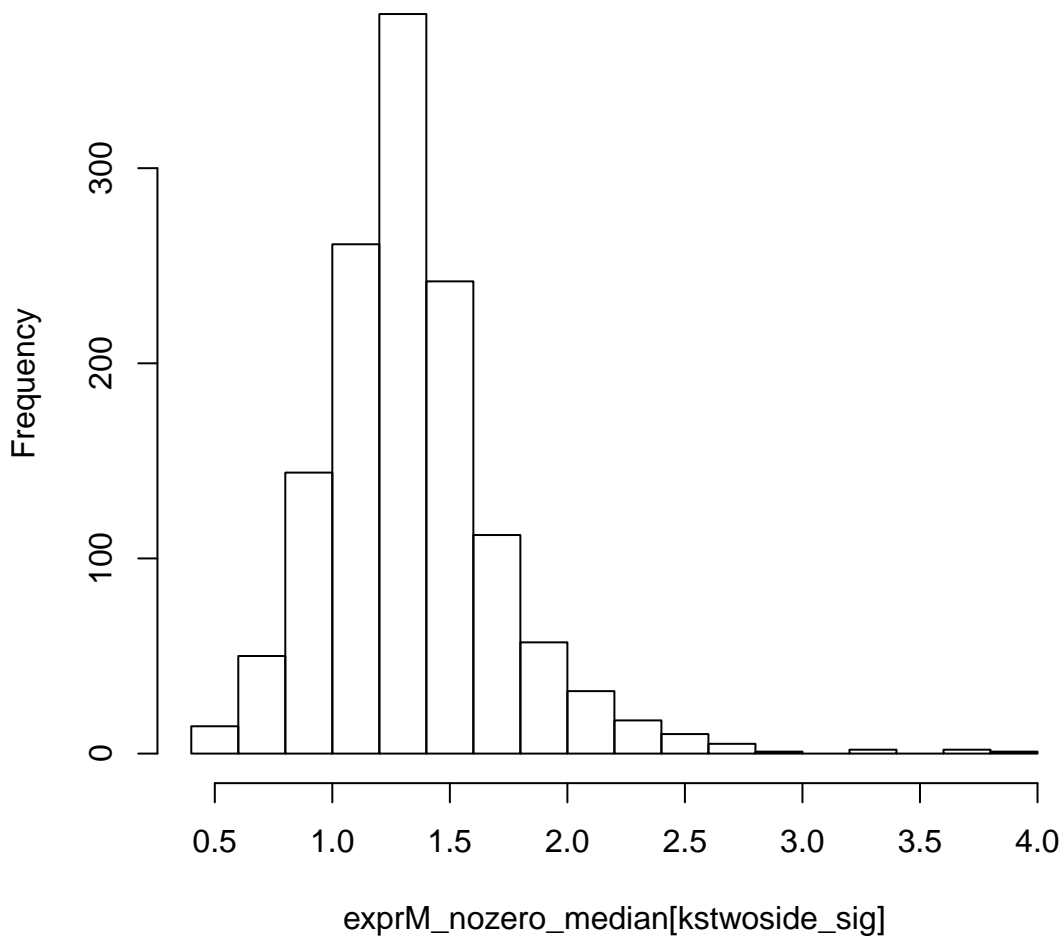


`exprM_0zero_num[ksless < 0.01]`

**expression cell num**

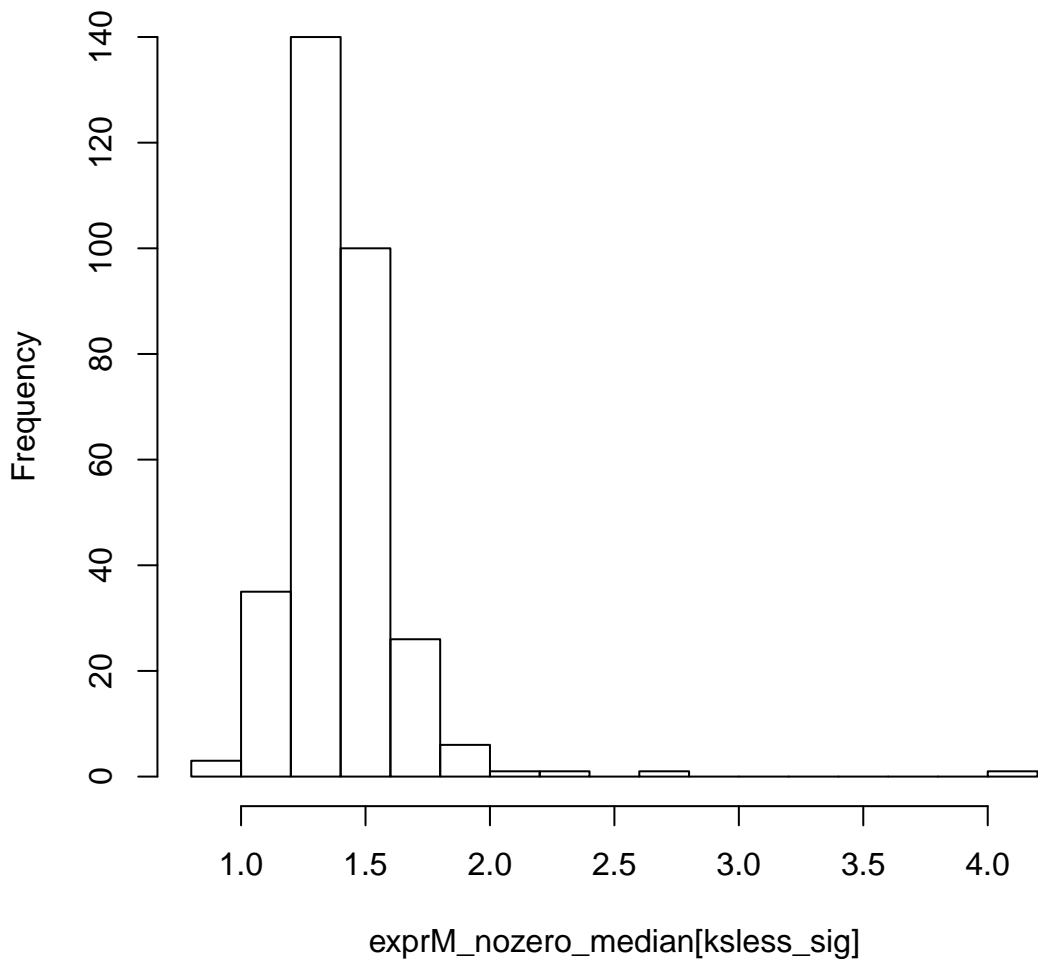


# median of nozero log-express of genes, kstwo side sig

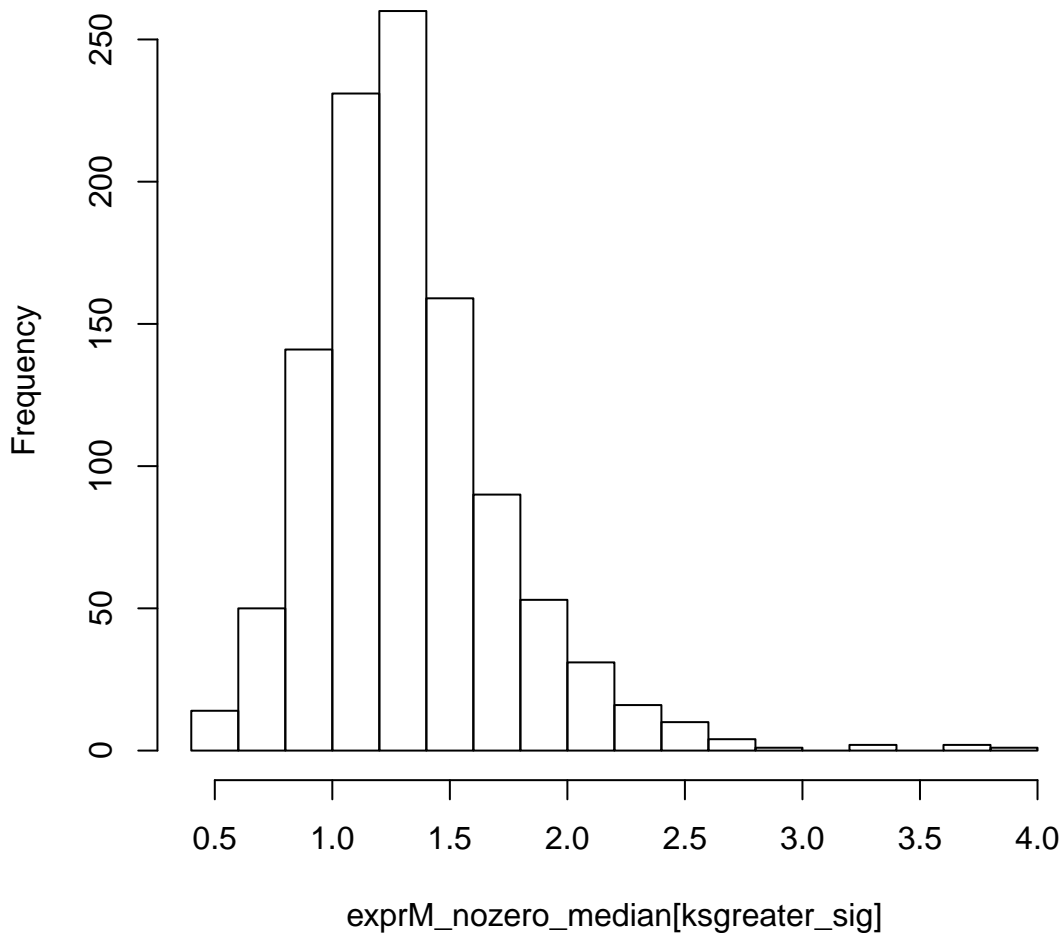




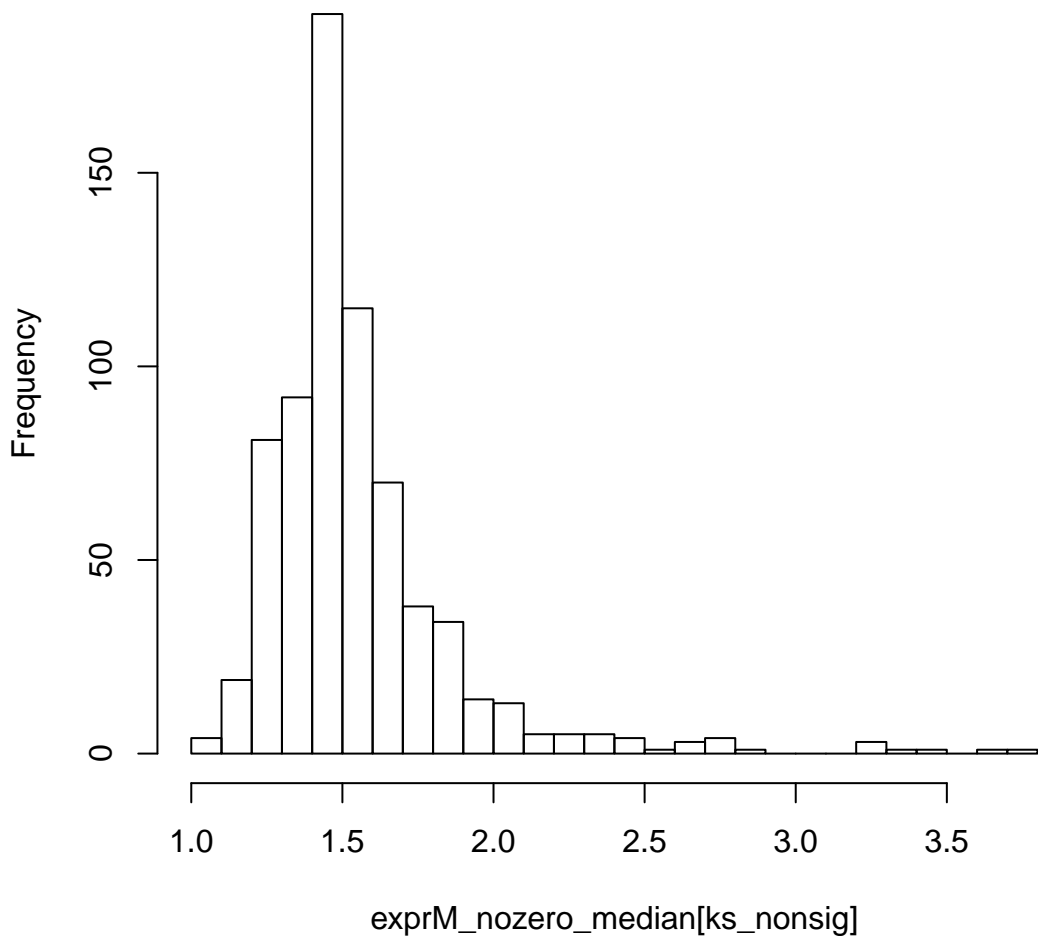
# median of nozero log-express of genes, ksless sig



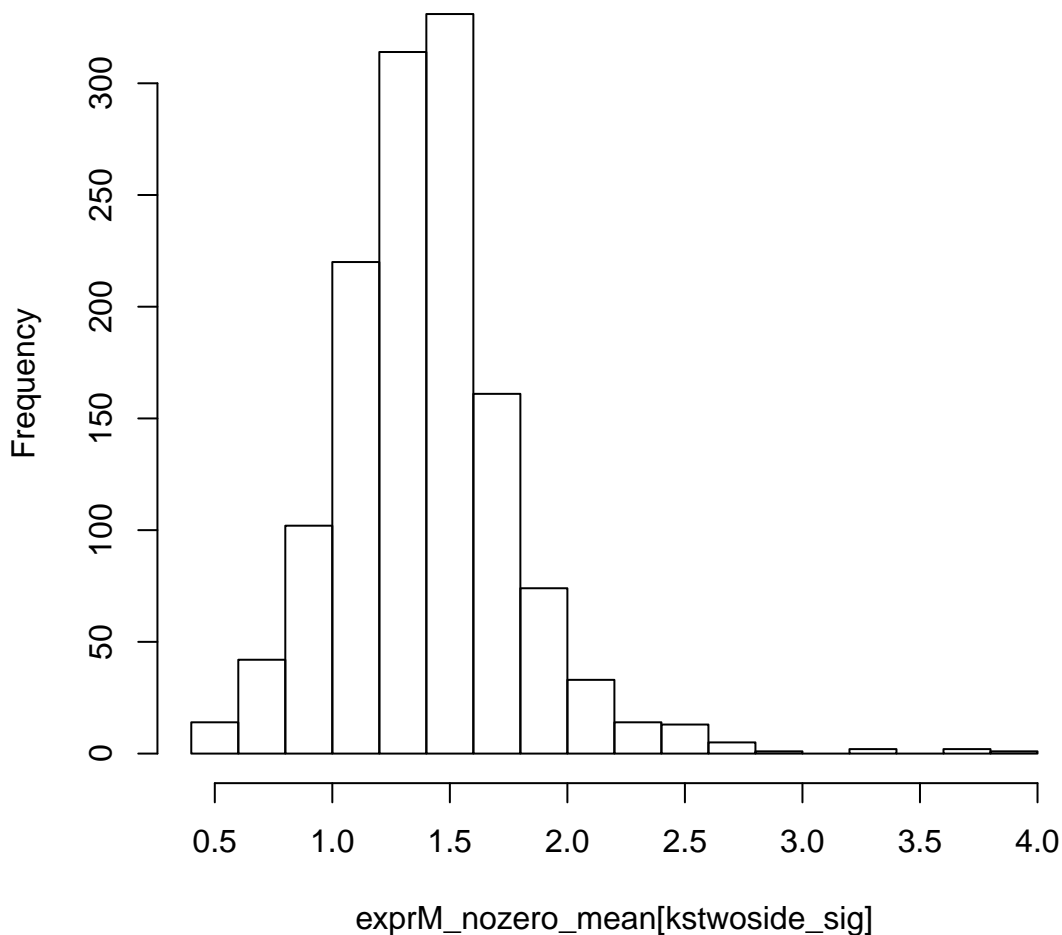
# median of nozero log-express of genes,ksgreater sig



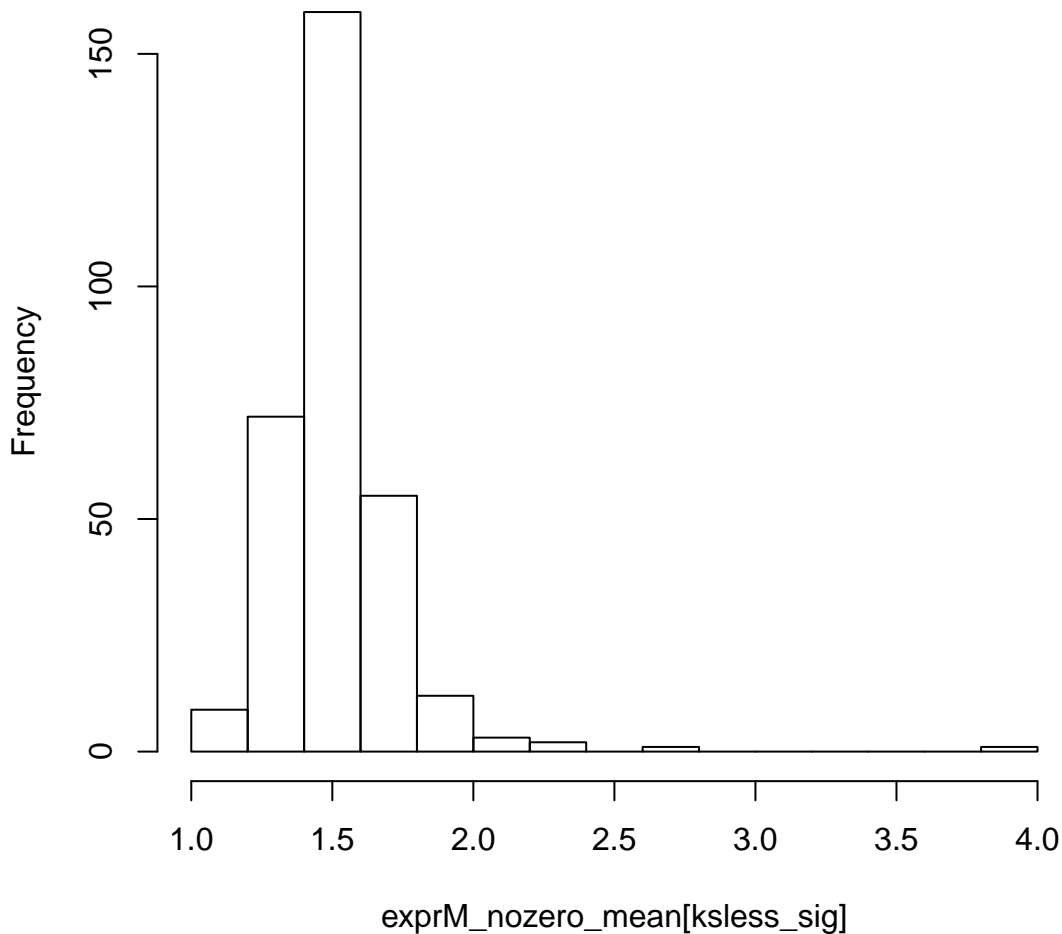
# median of nozero log-express of genes,ks no sig



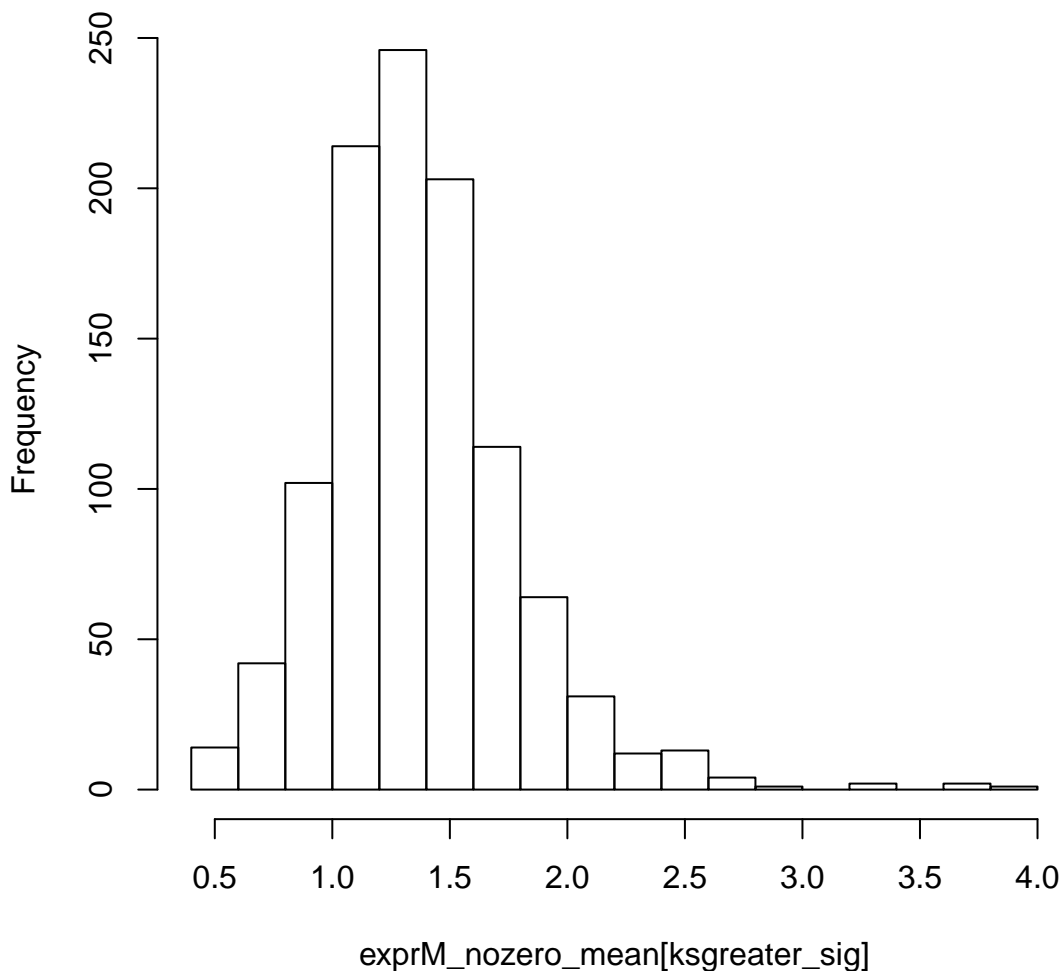
# mean of nozero log-express of genes, kstwside sig



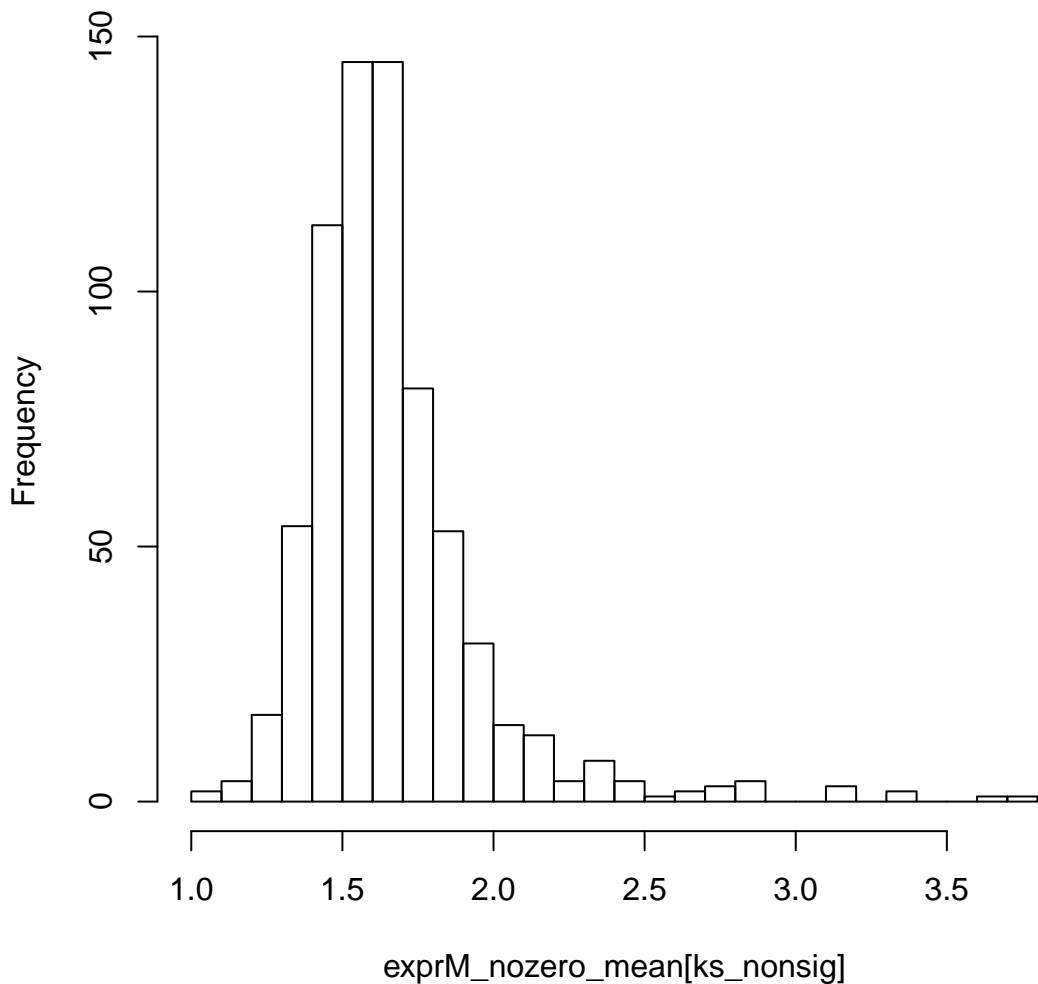
# mean of nozero log-express of genes, ksless sig



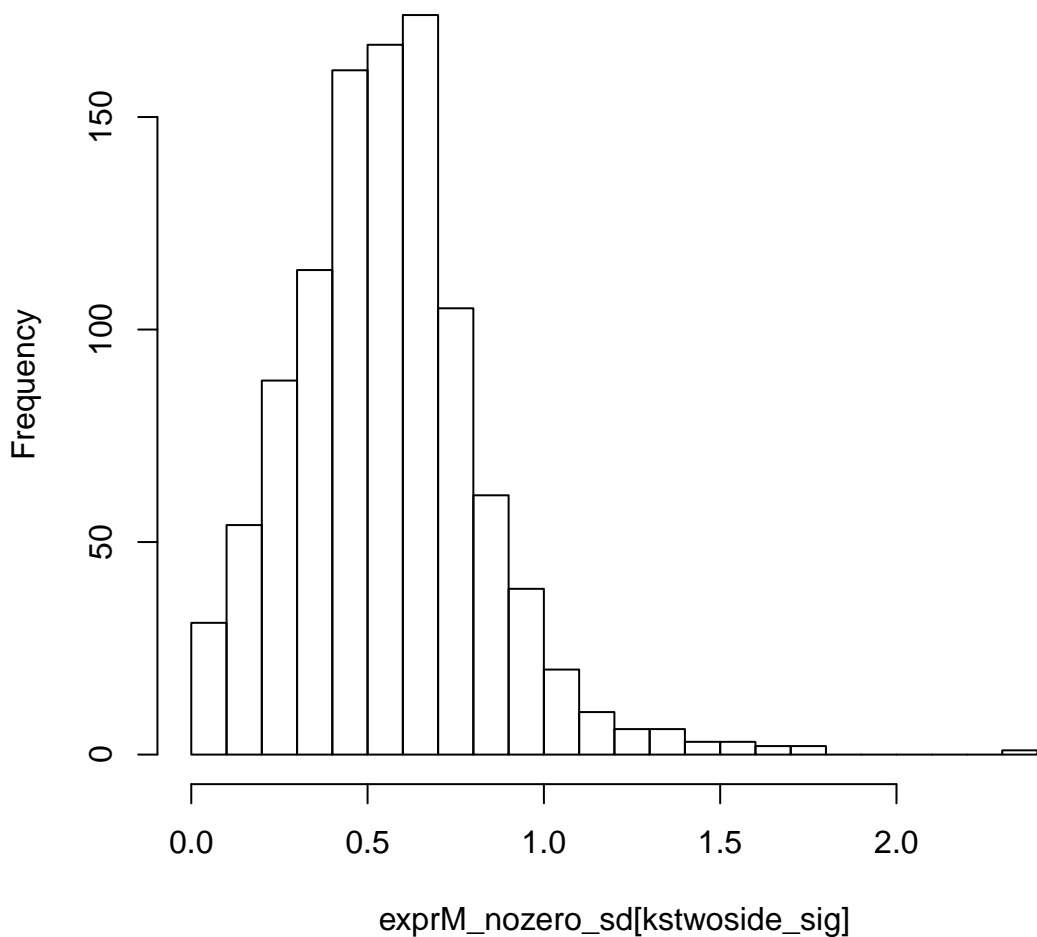
# mean of nozero log-express of genes,ksgreater sig



# mean of nozero log-express of genes,ks no sig

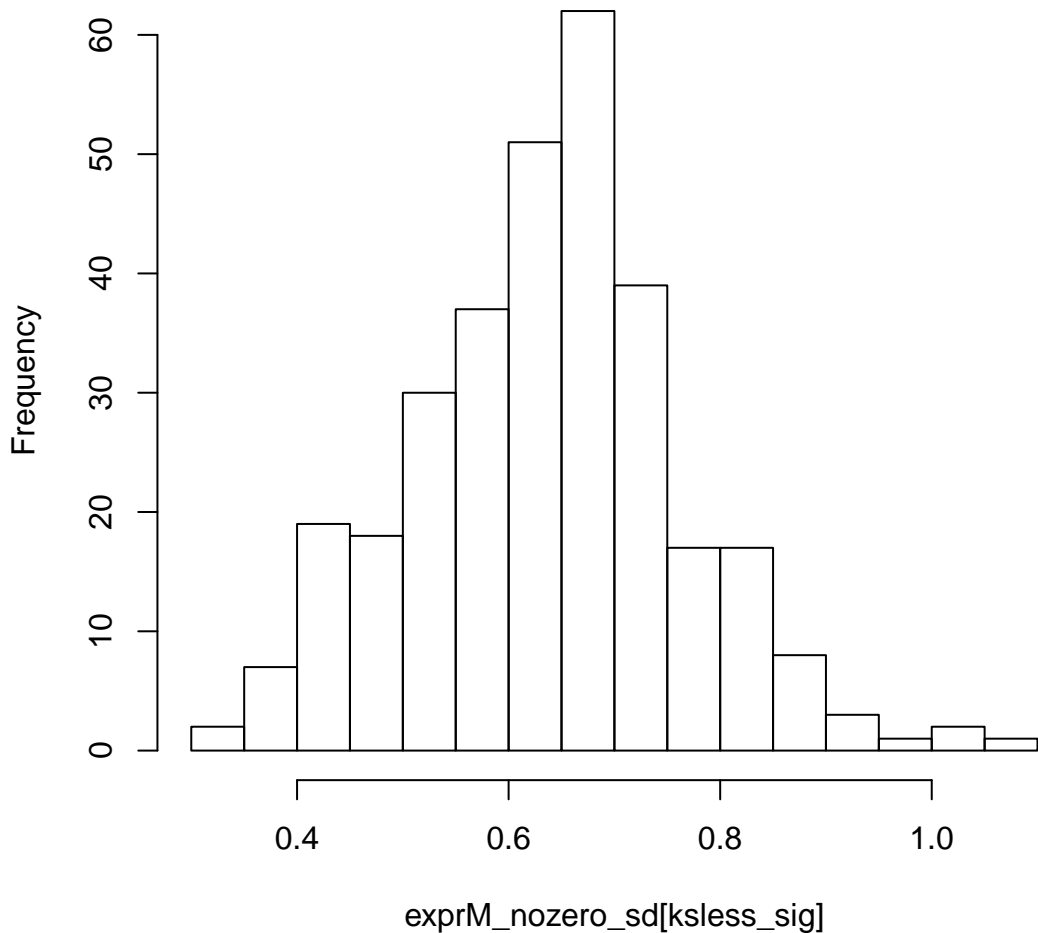


# sd of nozero log-express of genes, kstwo side sig

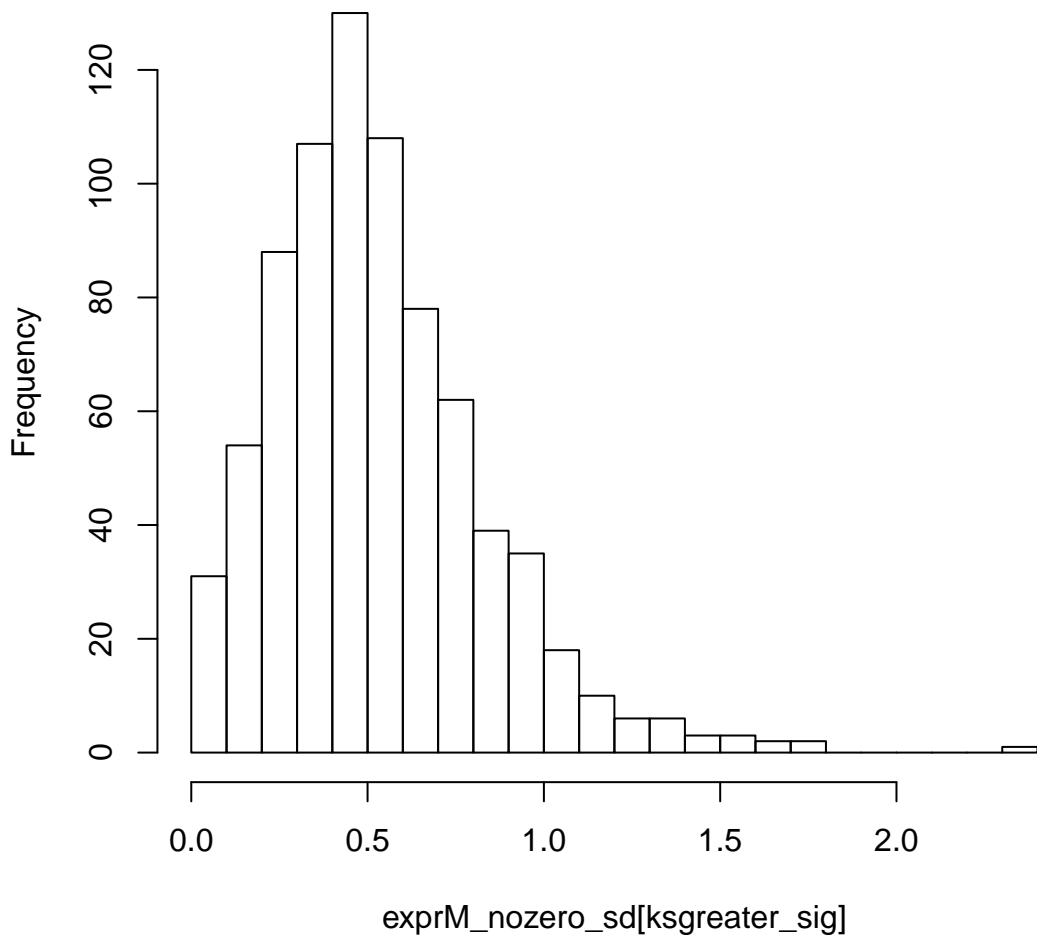




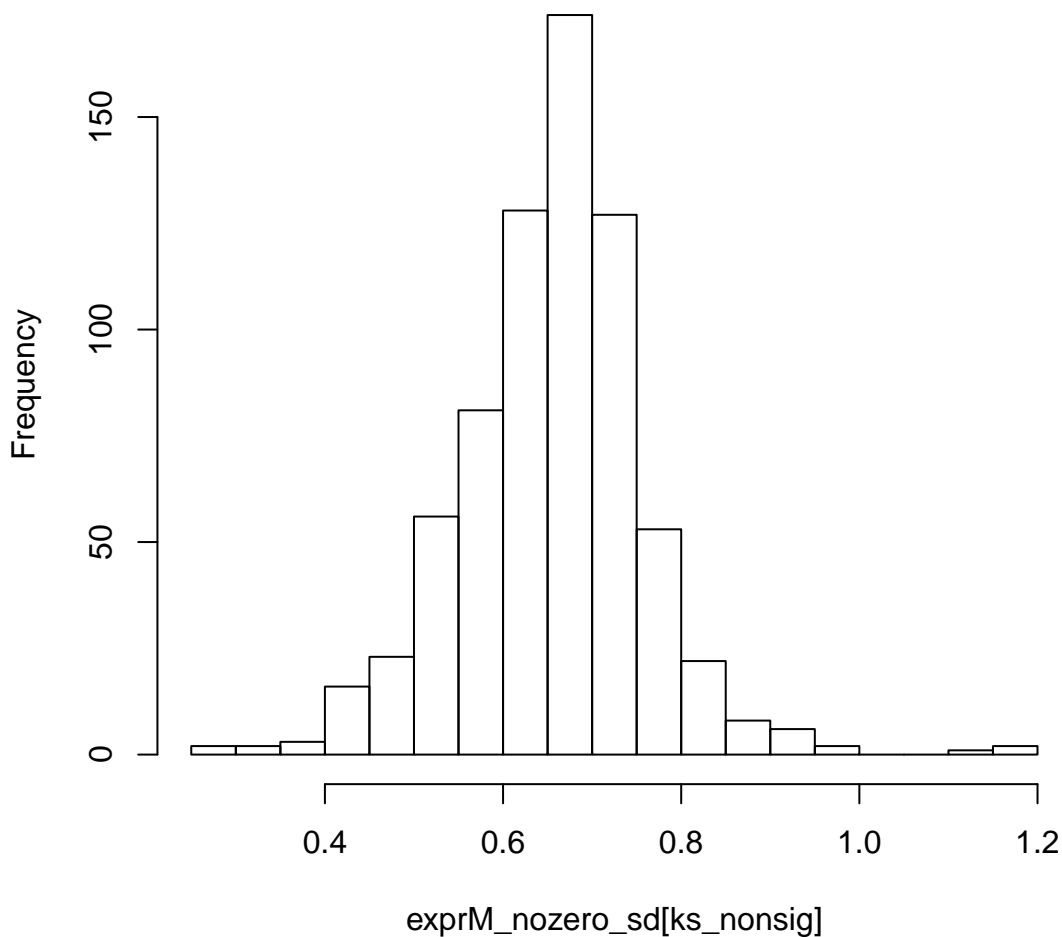
# sd of nozero log-express of genes, ksless sig



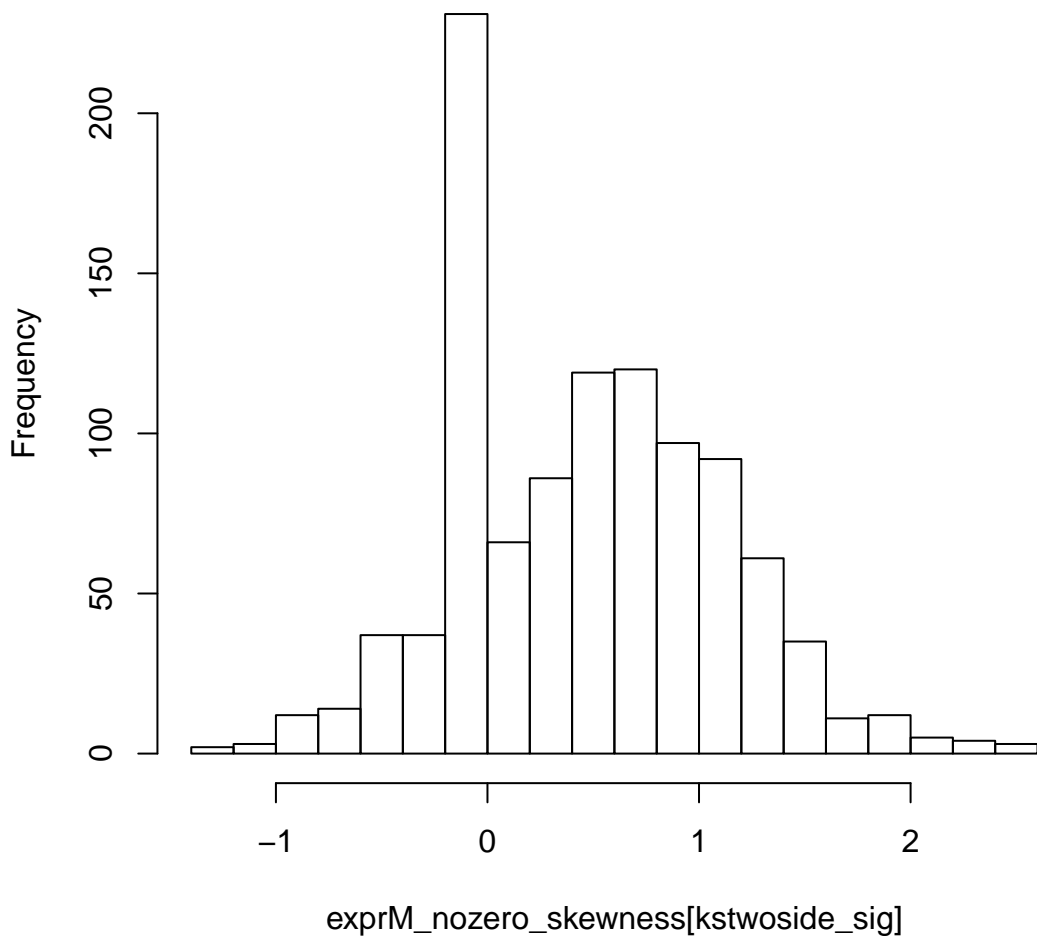
# sd of nozero log-express of genes,ksgreater sig



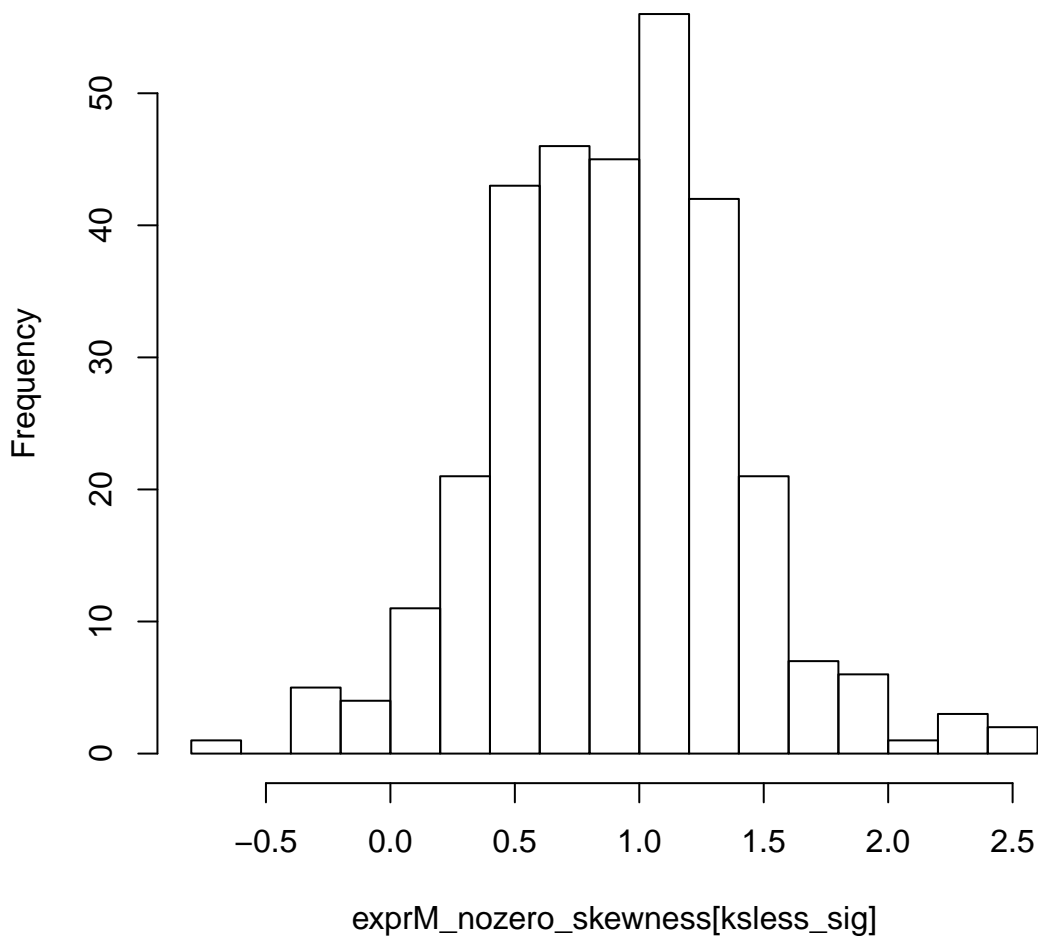
# sd of nozero log-express of genes,ks no sig



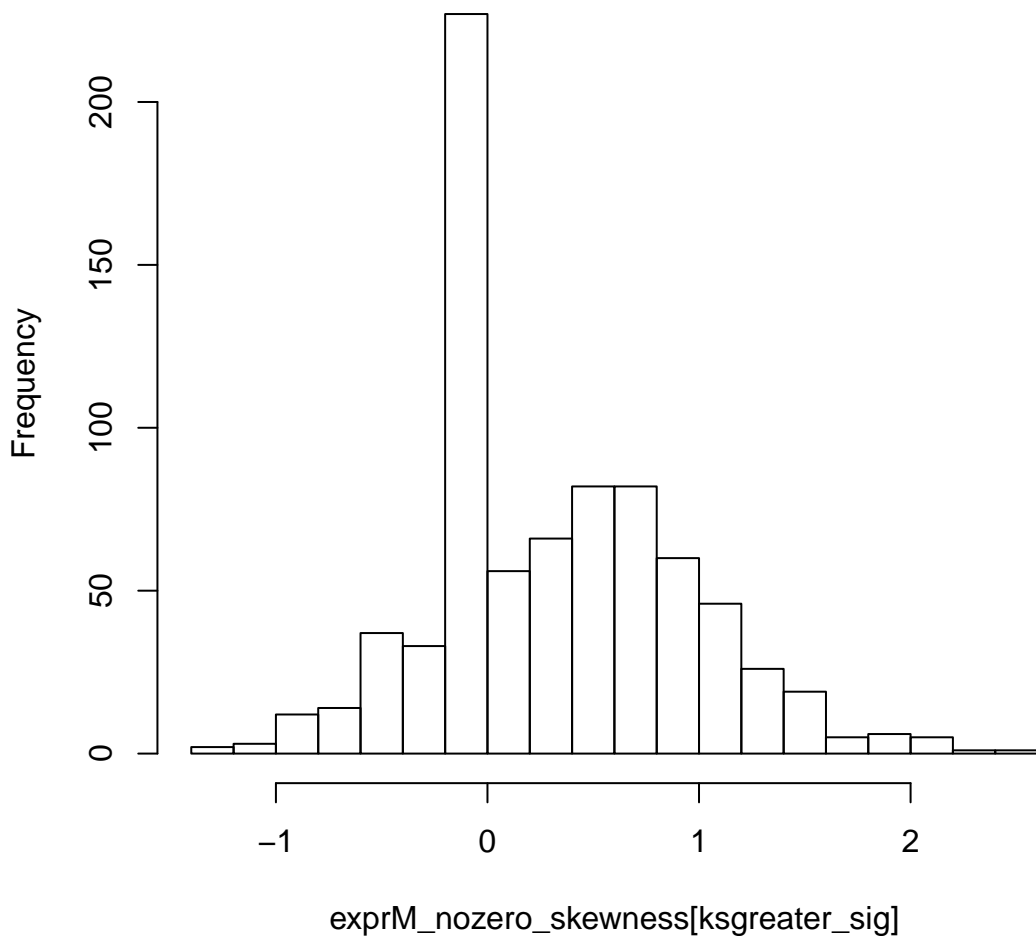
# skewness of nozero log-express of genes, kstvoside sig



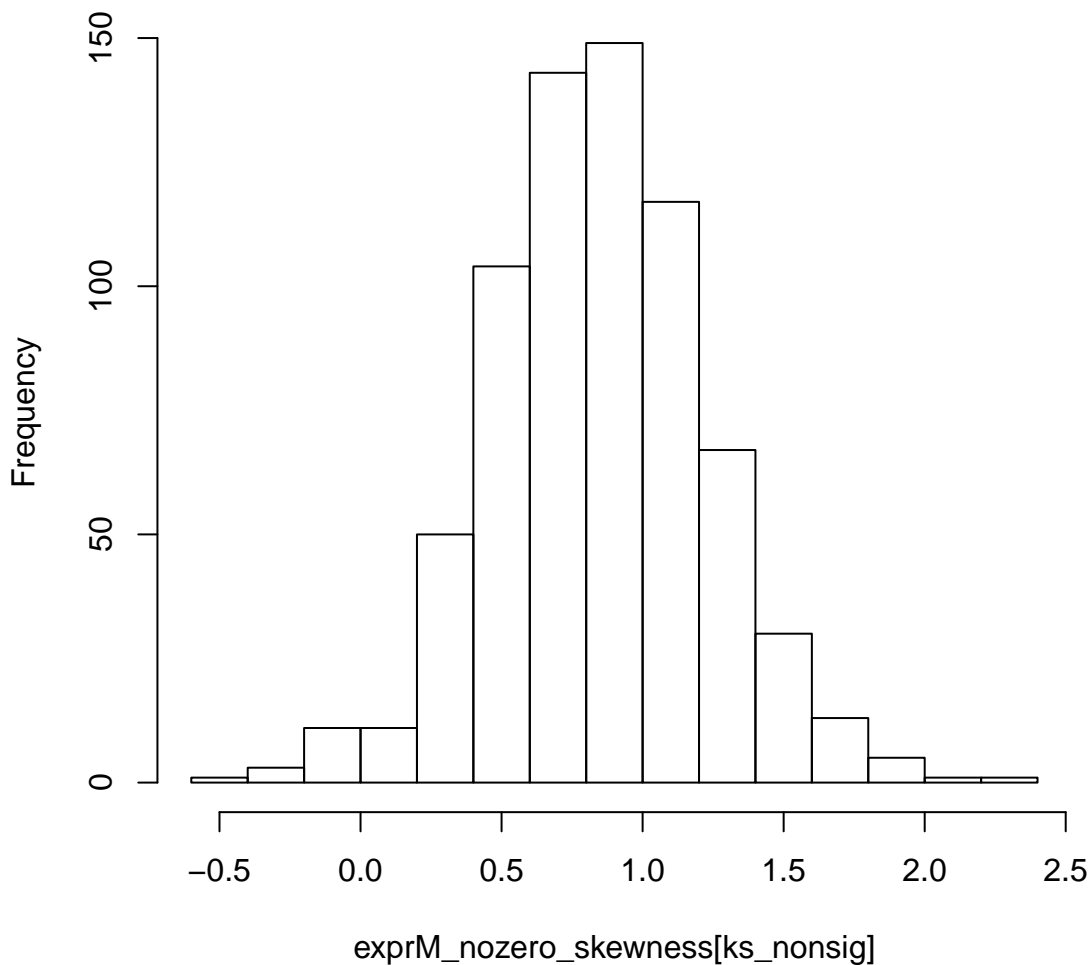
# skewness of nozero log-express of genes, ksless sig



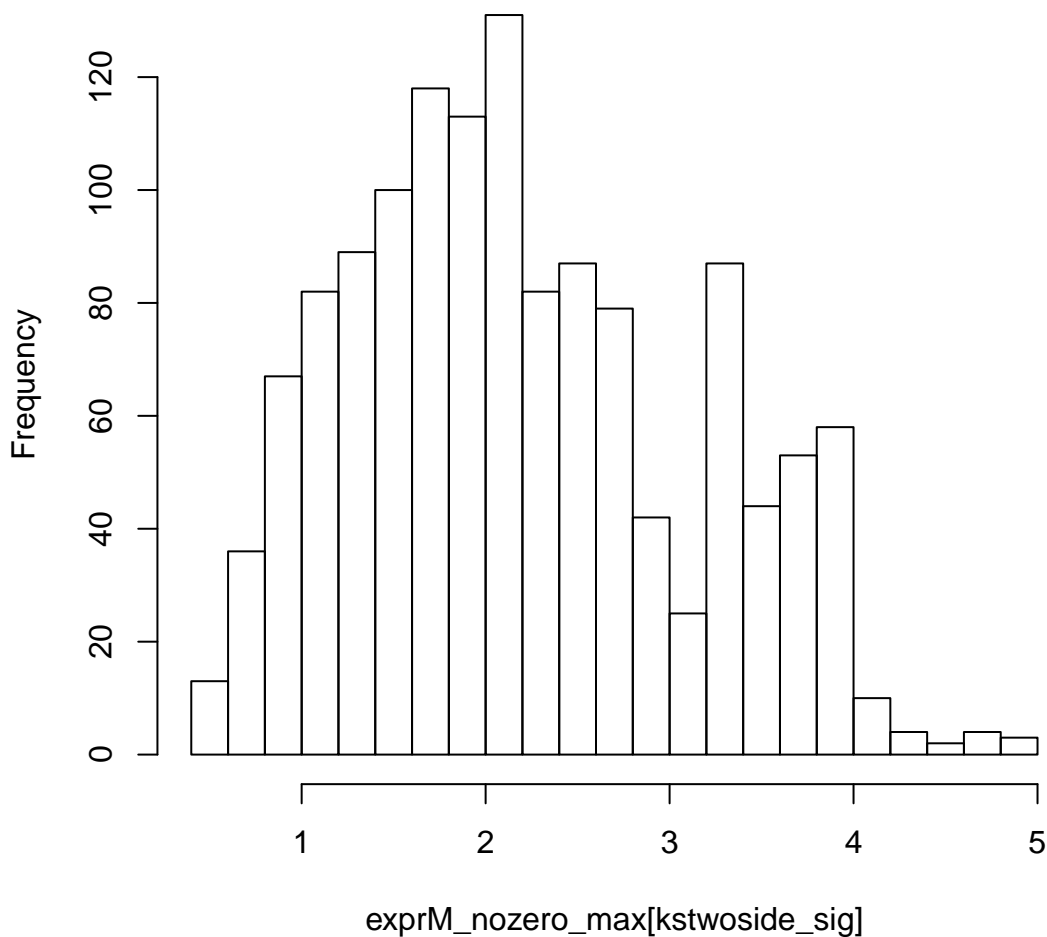
# skewness of nozero log-express of genes,ksgreater sig



# skewness of nozero log-express of genes,ks no sig

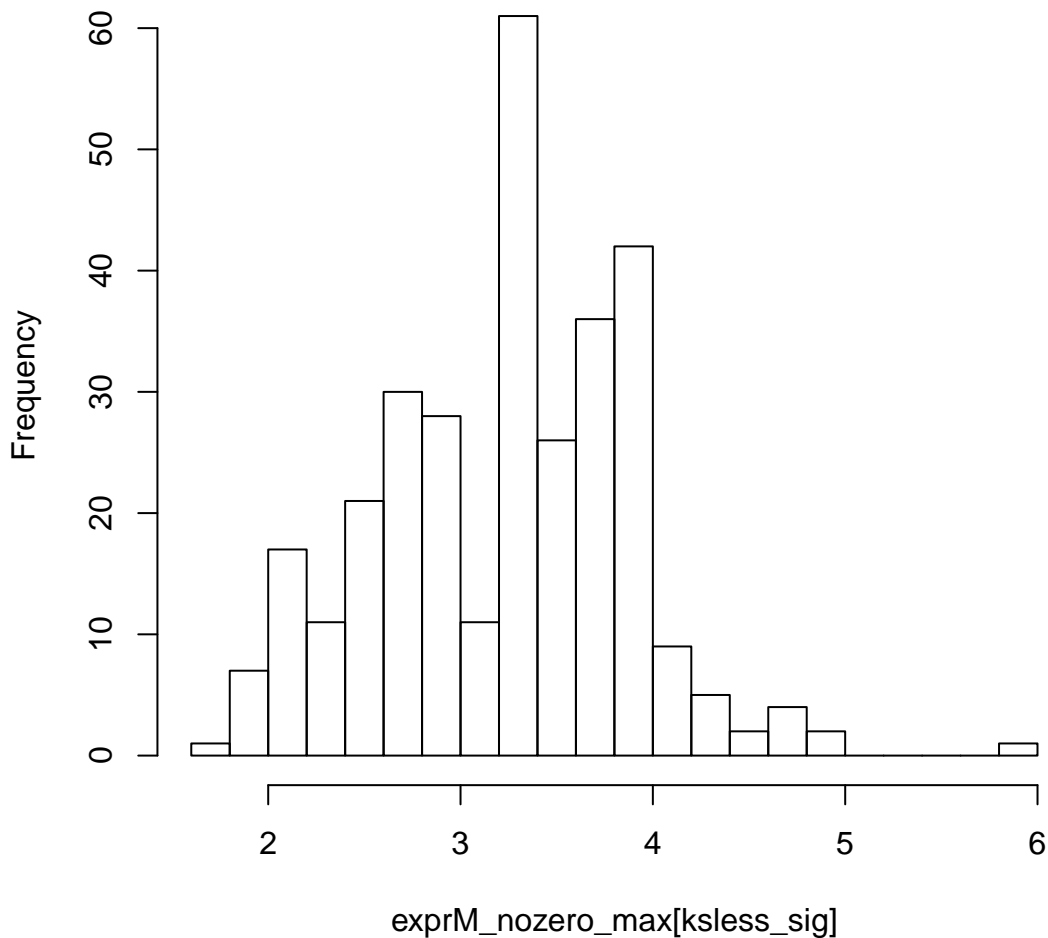


# max of nozero log-express of genes, kstwoside sig

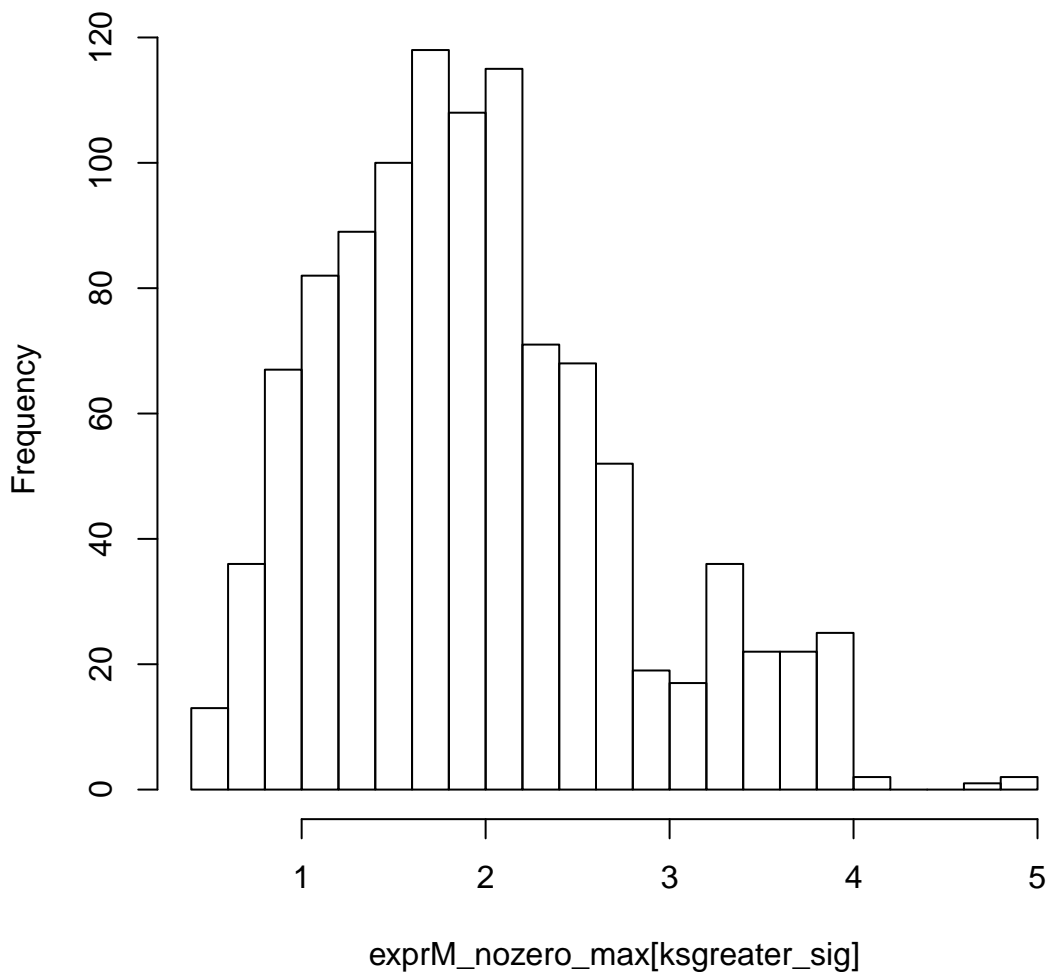




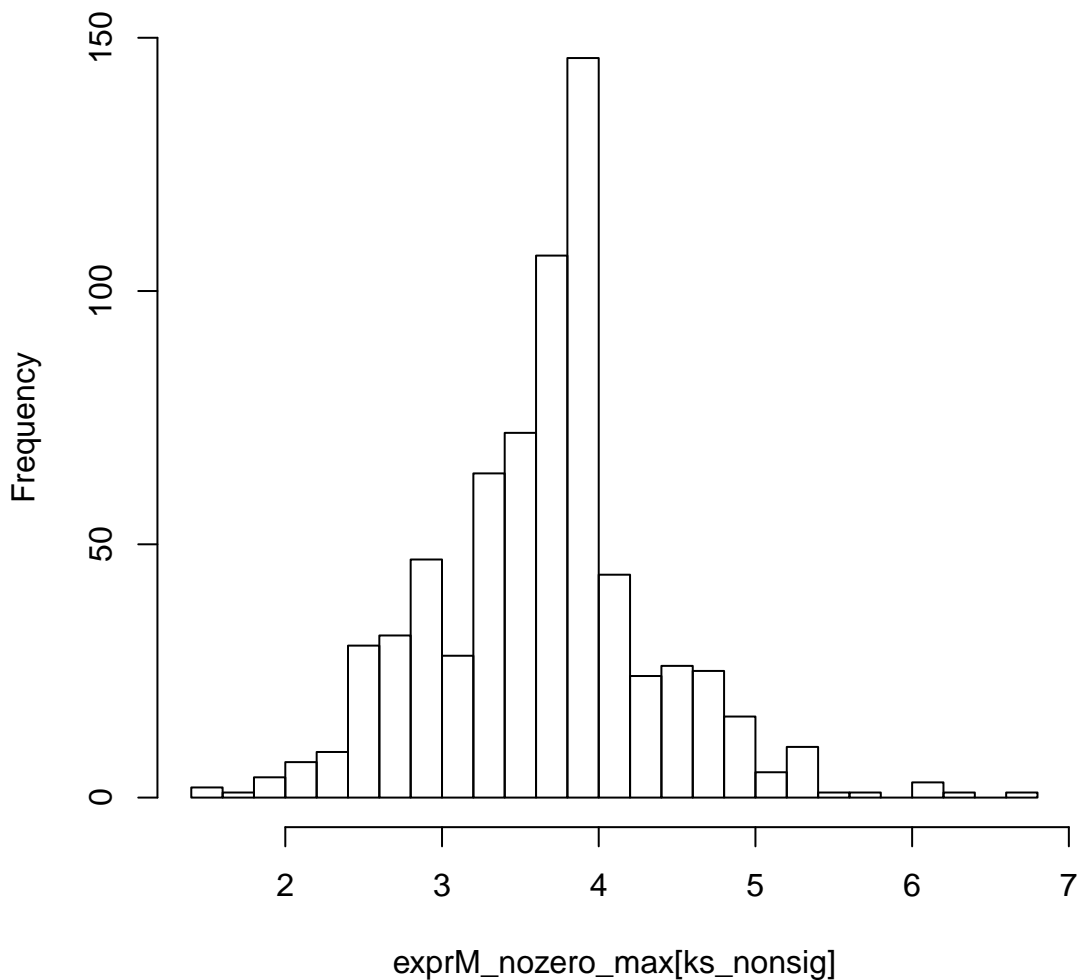
# max of nozero log-express of genes, ksless sig



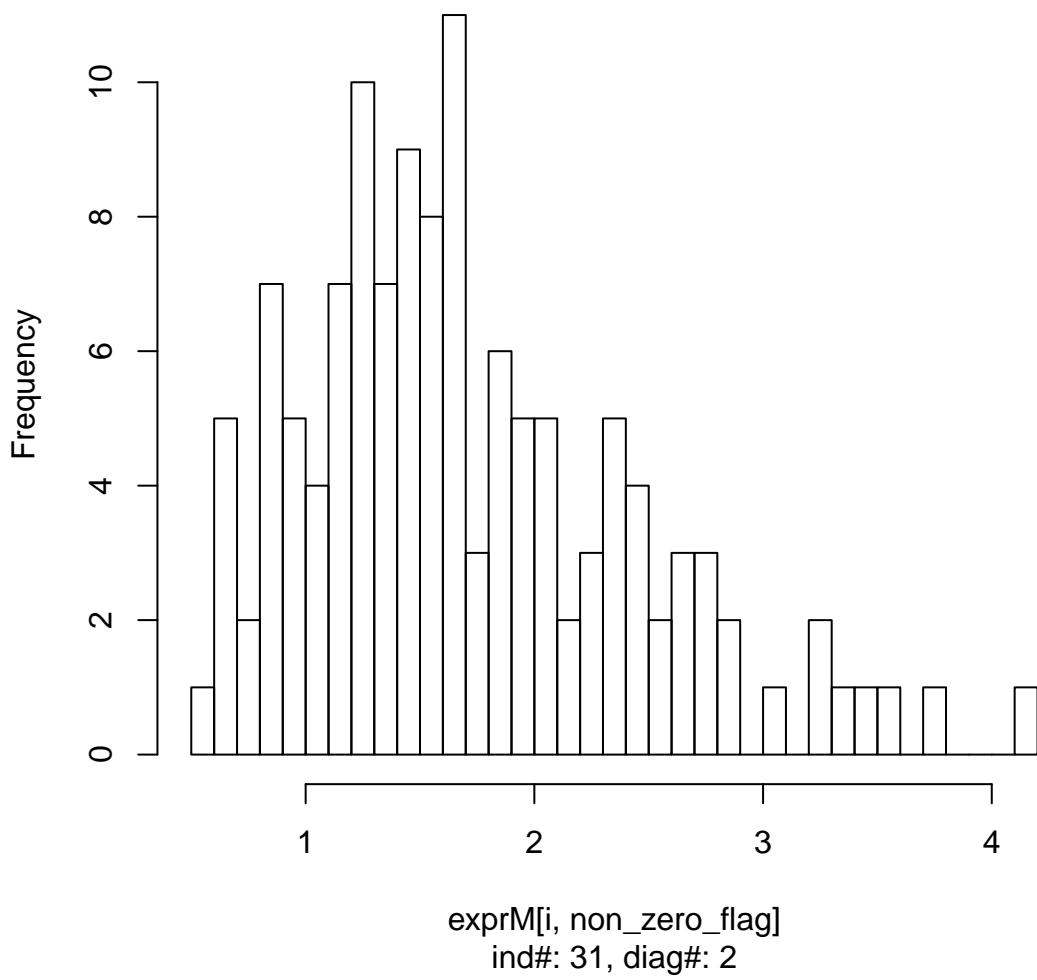
# max of nozero log-express of genes,ksgreater sig



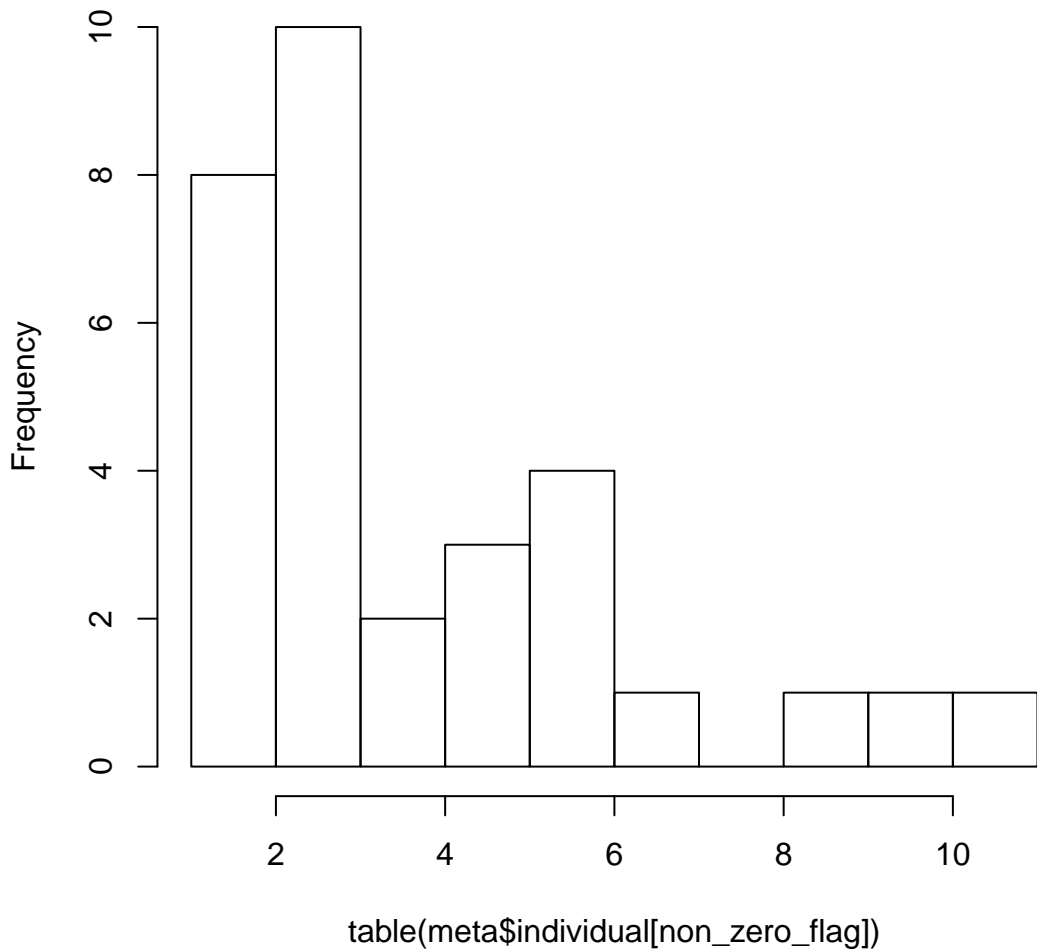
# max of nozero log-express of genes,ks no sig



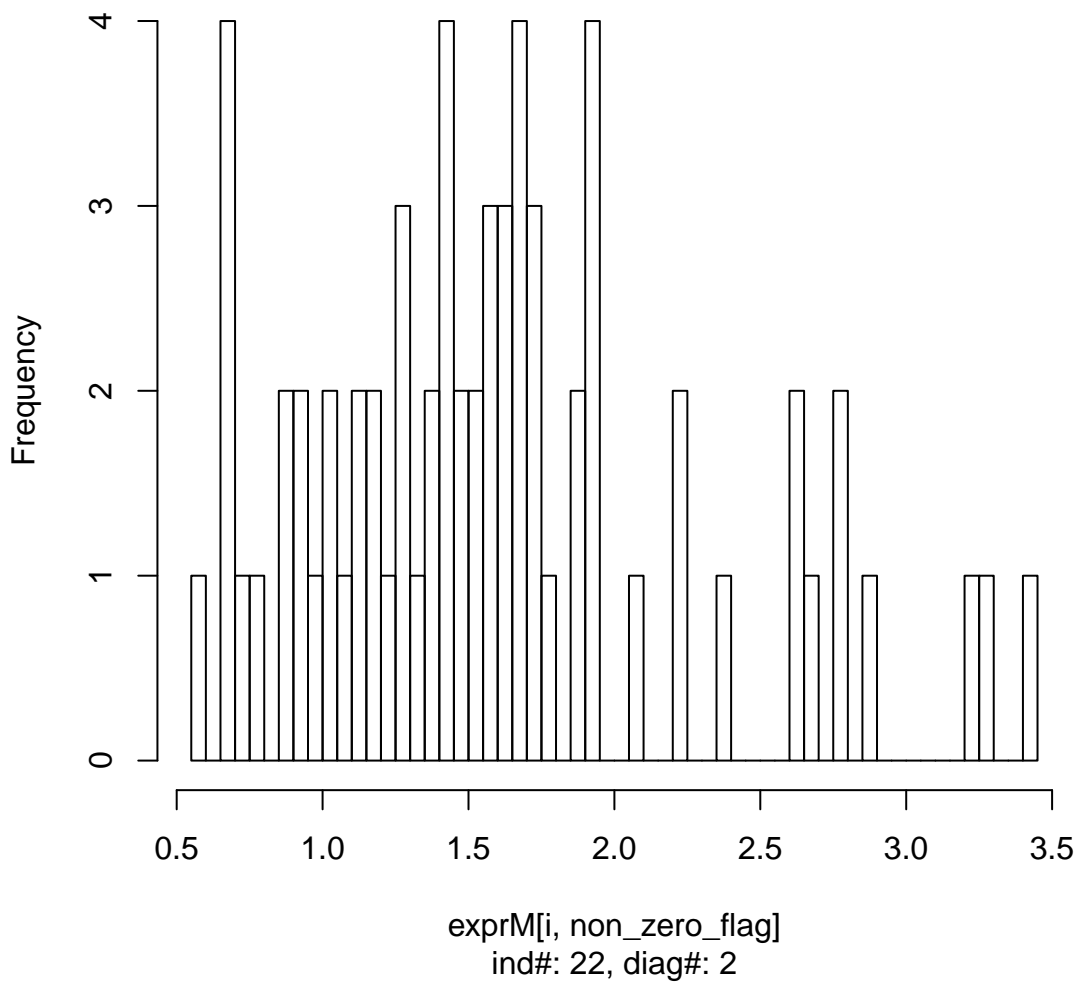
less sig: log expression of gene#77, pval ob=0.5267, non-zero nu



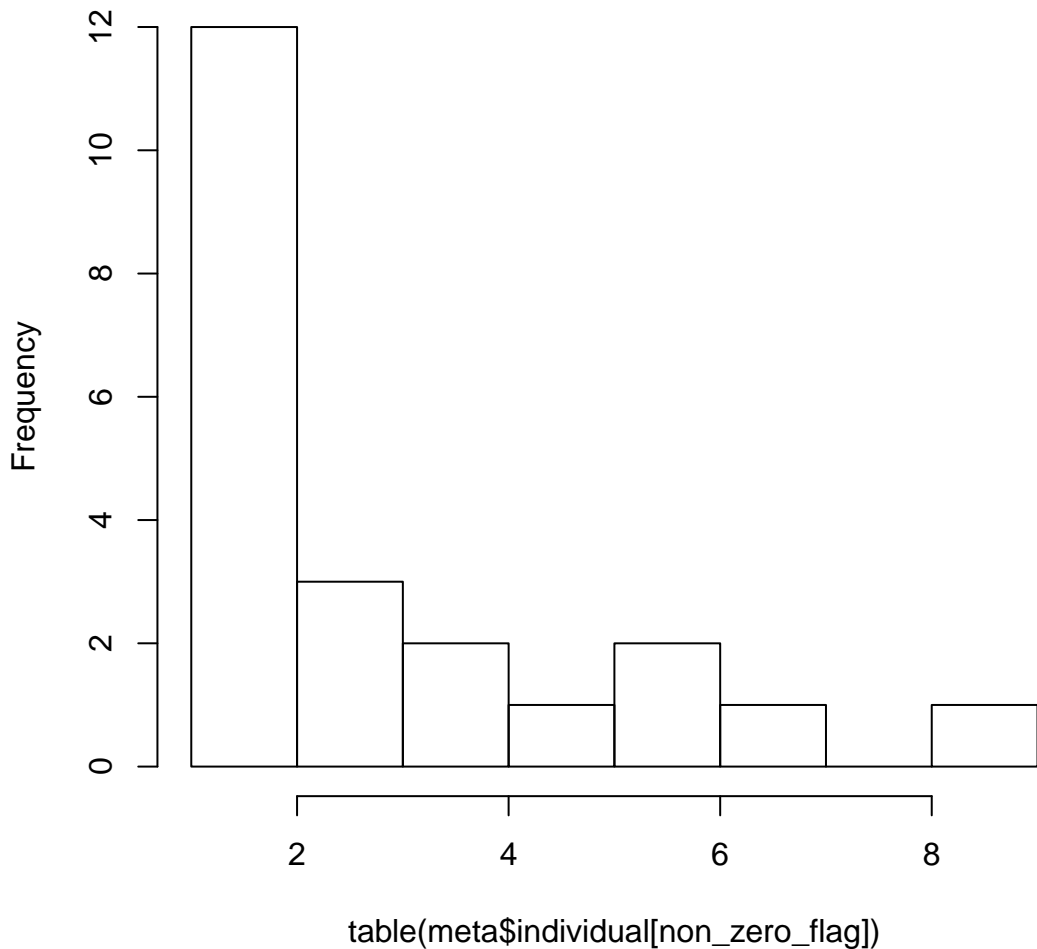
# KSless sig: individual expression cell count of gene#77



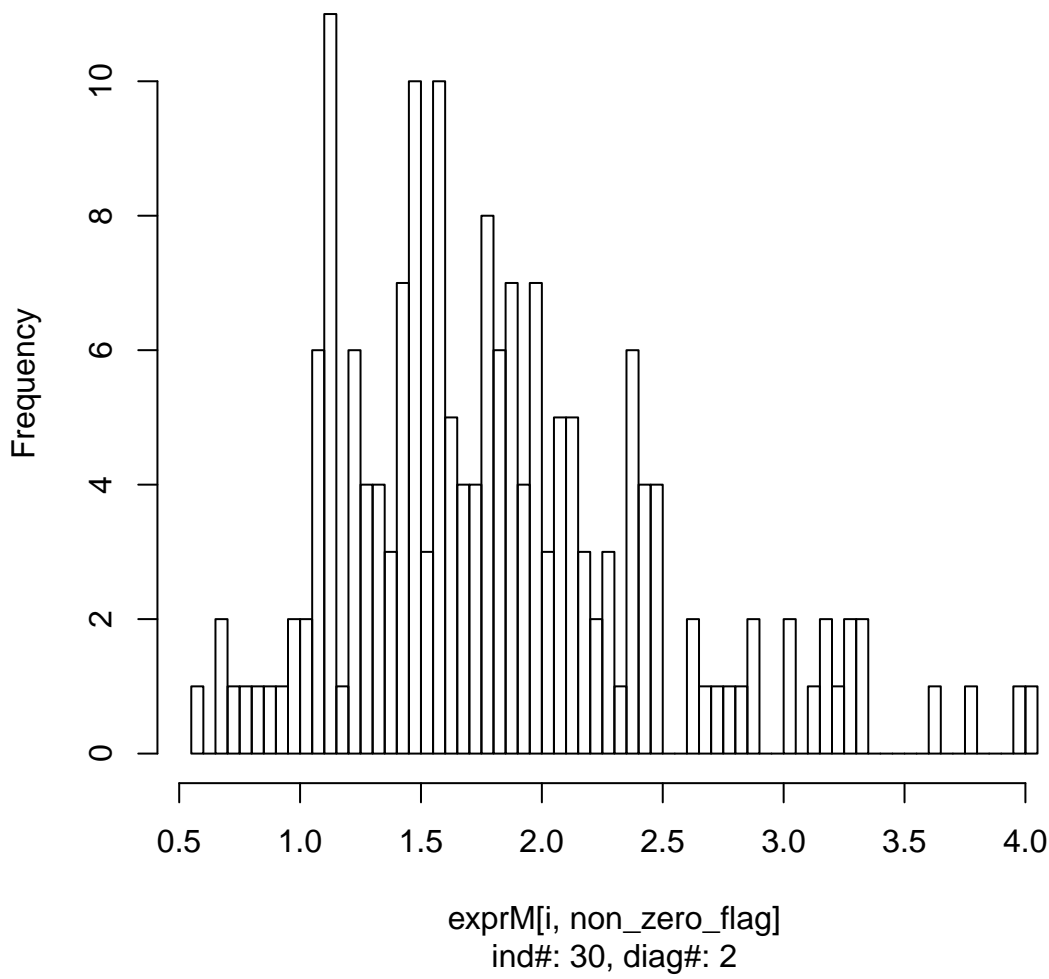
less sig: log expression of gene#91, pval ob=0.0652, non-zero n



# KSless sig: individual expression cell count of gene#91

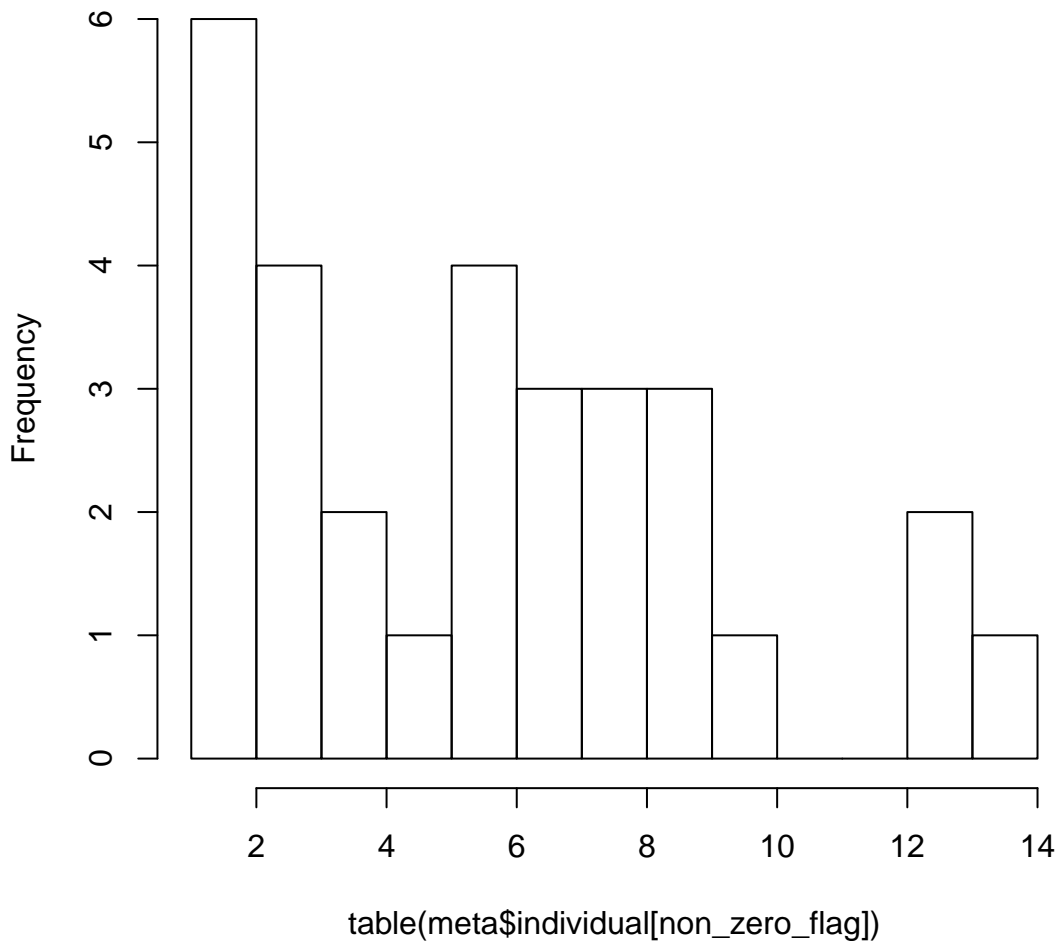


less sig: log expression of gene#128, pval ob=0.2739, non-zero n

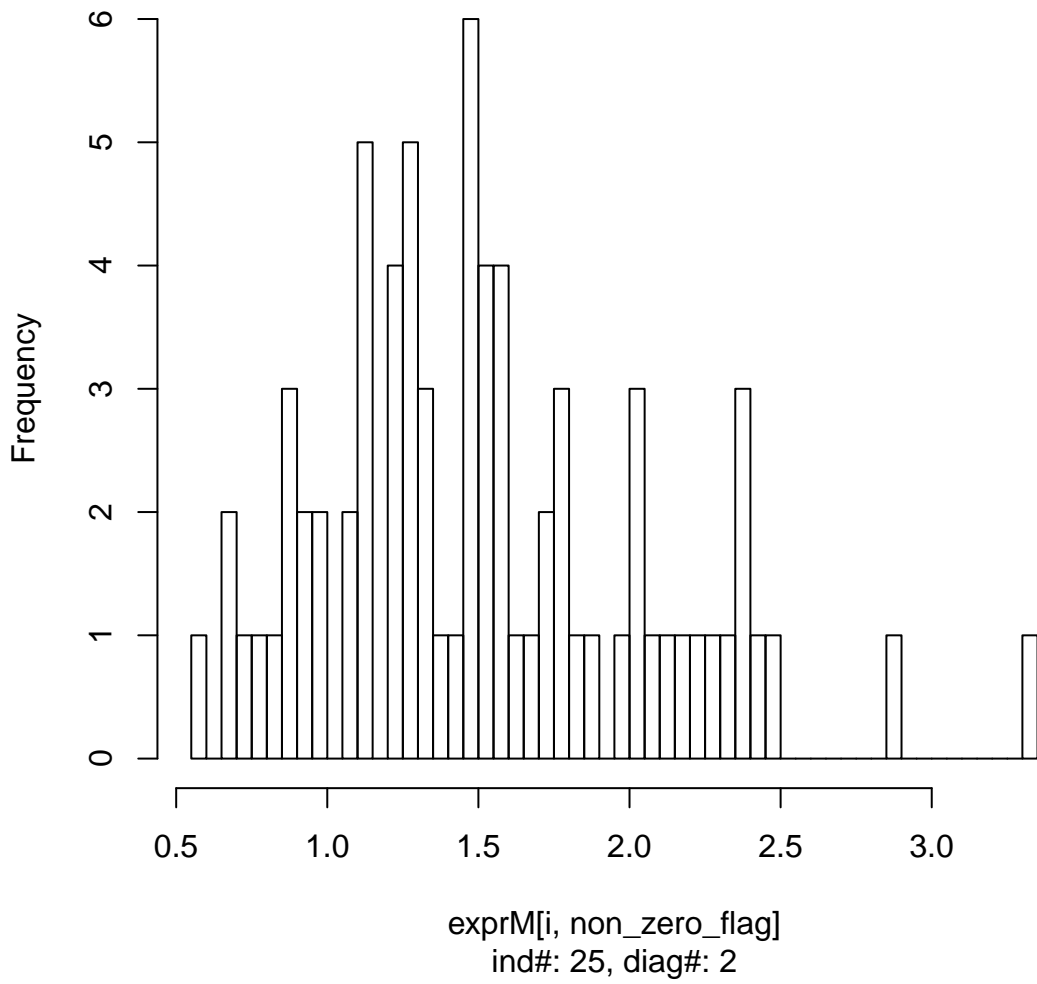




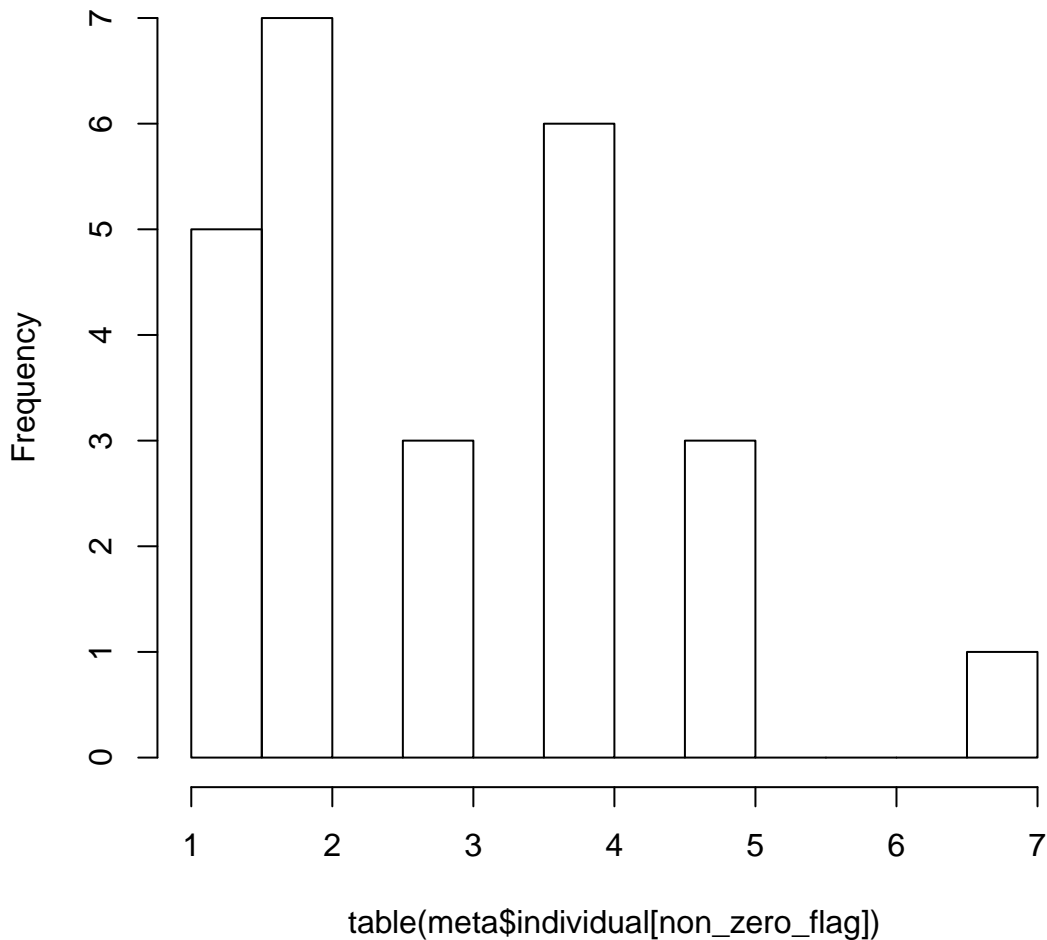
# KSless sig: individual expression cell count of gene#128



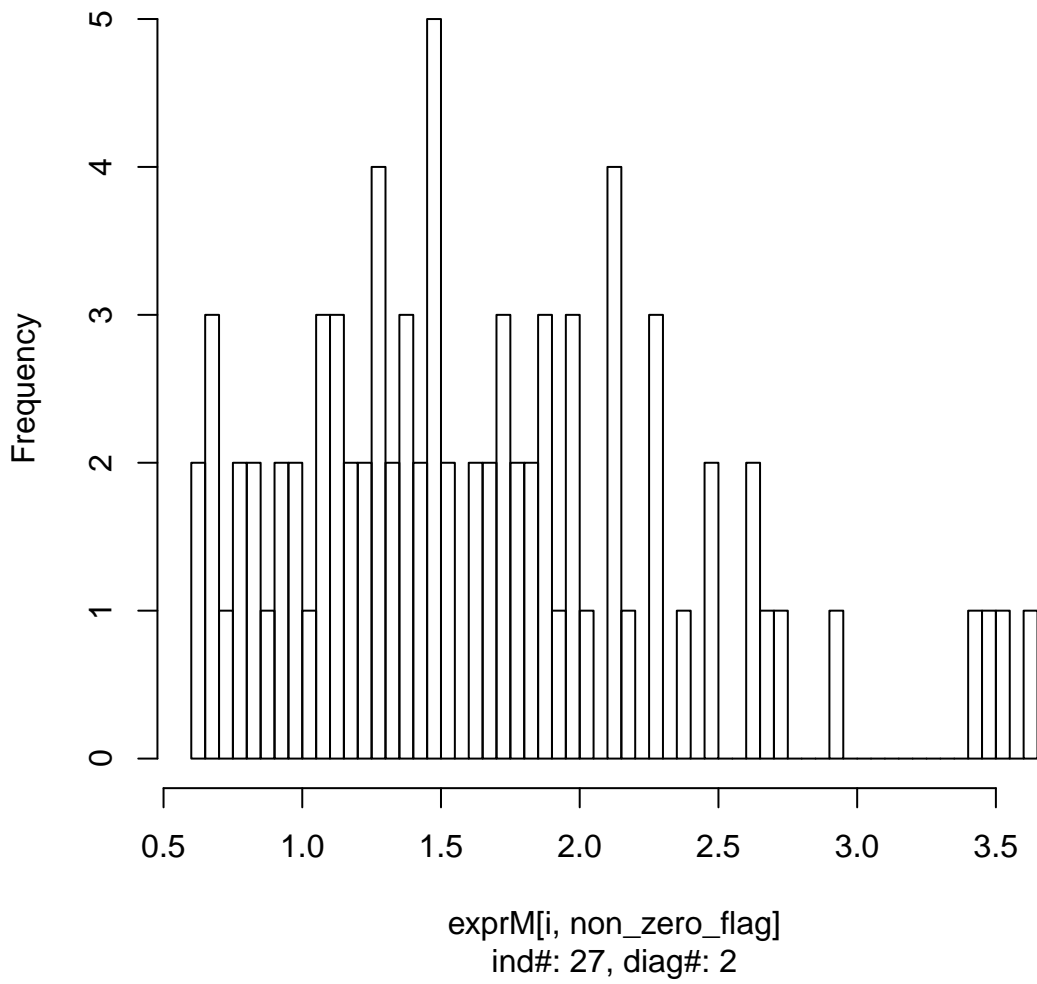
less sig: log expression of gene#197, pval ob=0.5464, non-zero n



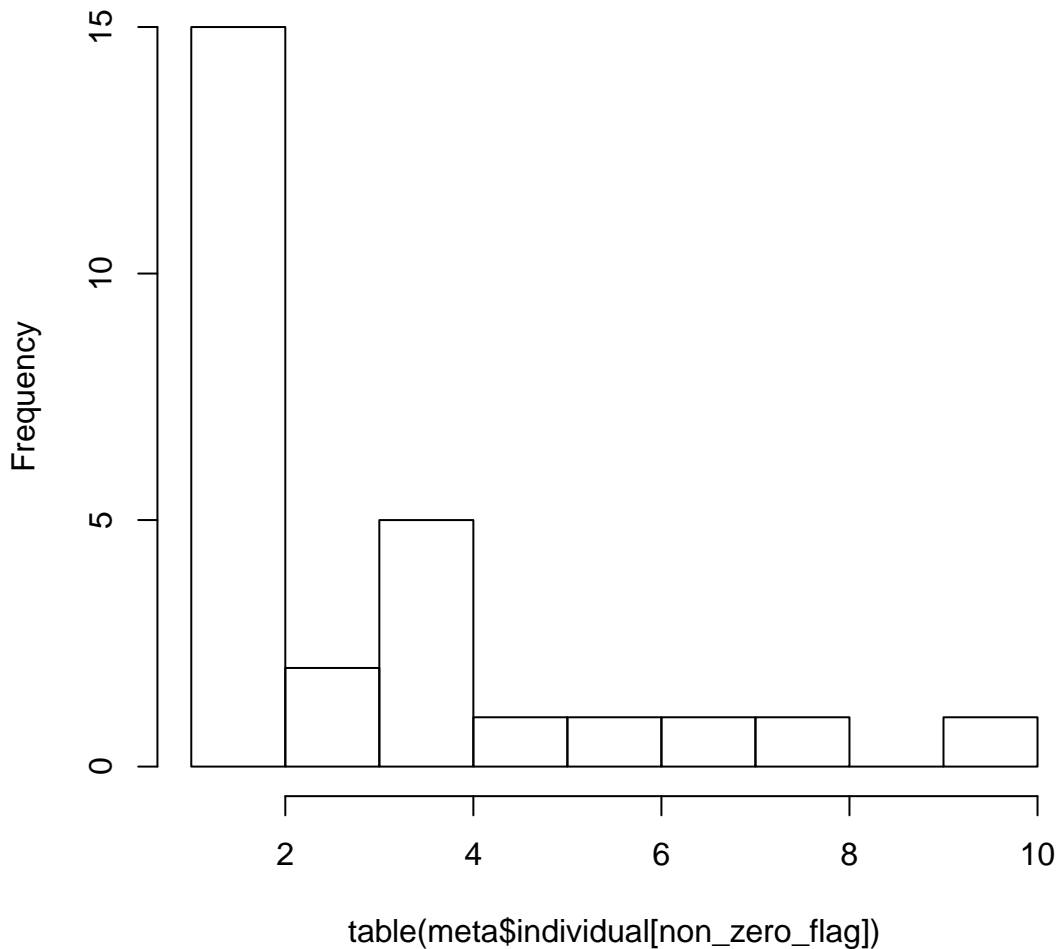
# KSless sig: individual expression cell count of gene#197



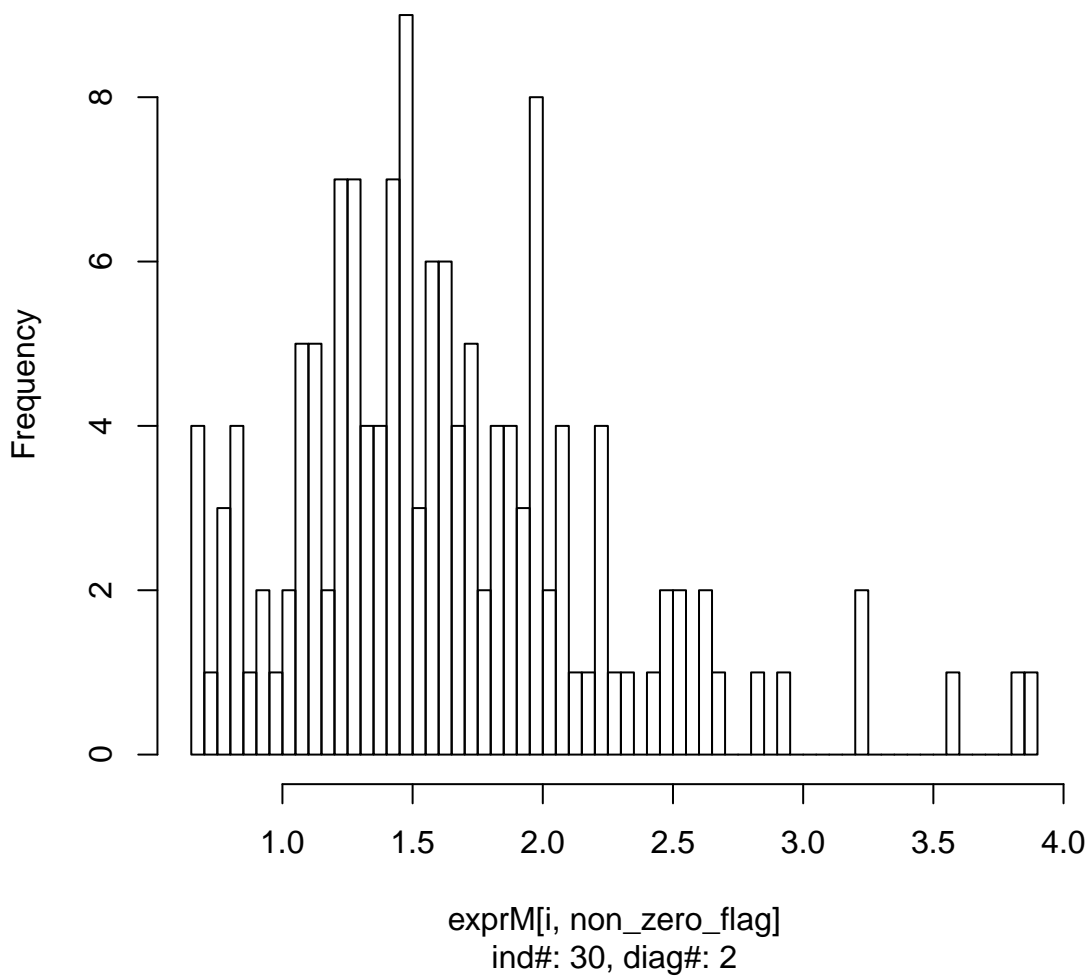
less sig: log expression of gene#210, pval ob=0.8046, non-zero n



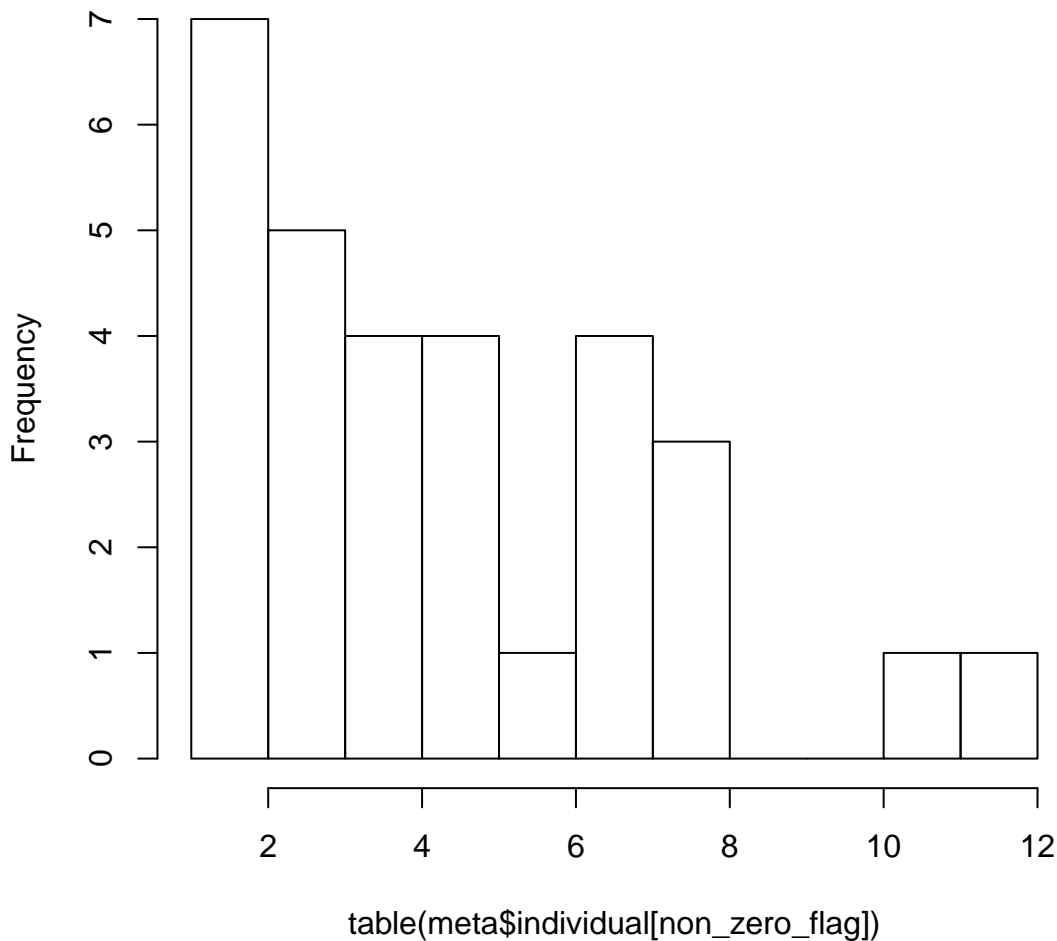
# KSless sig: individual expression cell count of gene#210



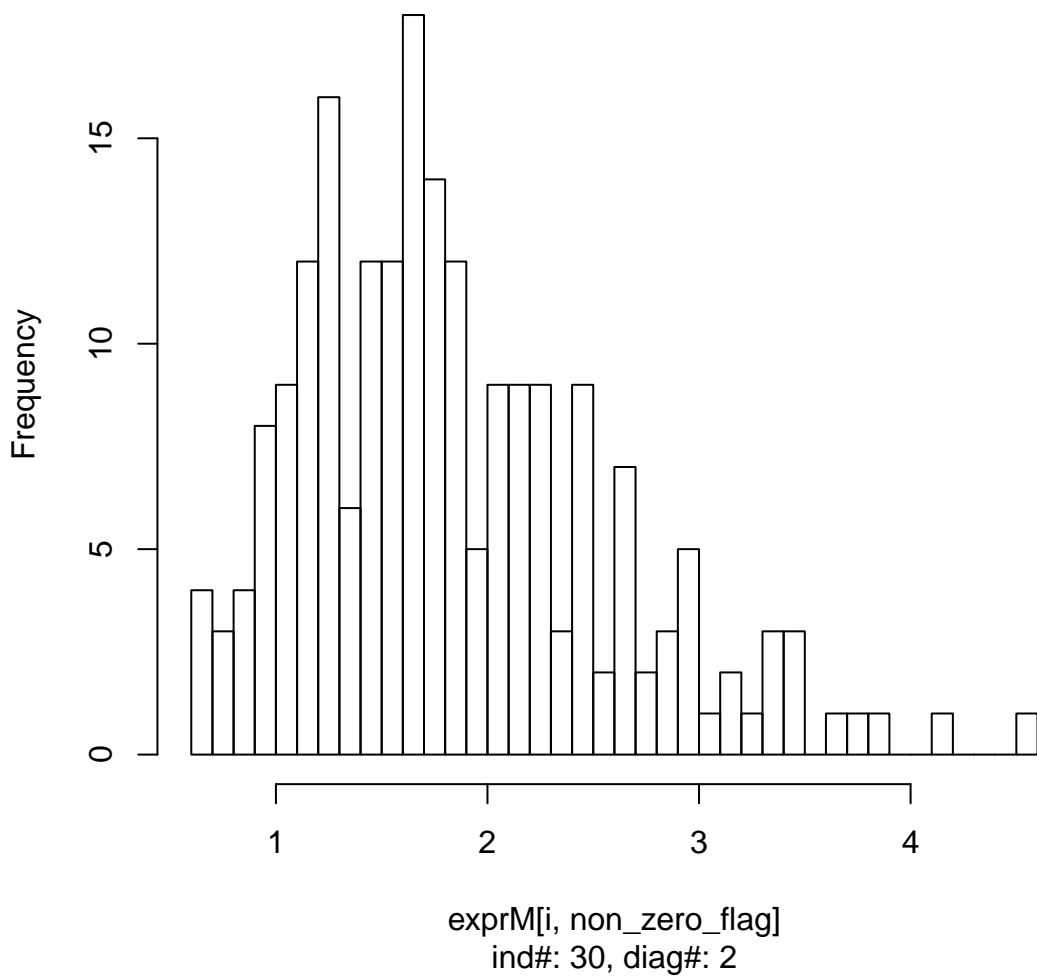
less sig: log expression of gene#225, pval ob=0.8155, non-zero n



# KSless sig: individual expression cell count of gene#225

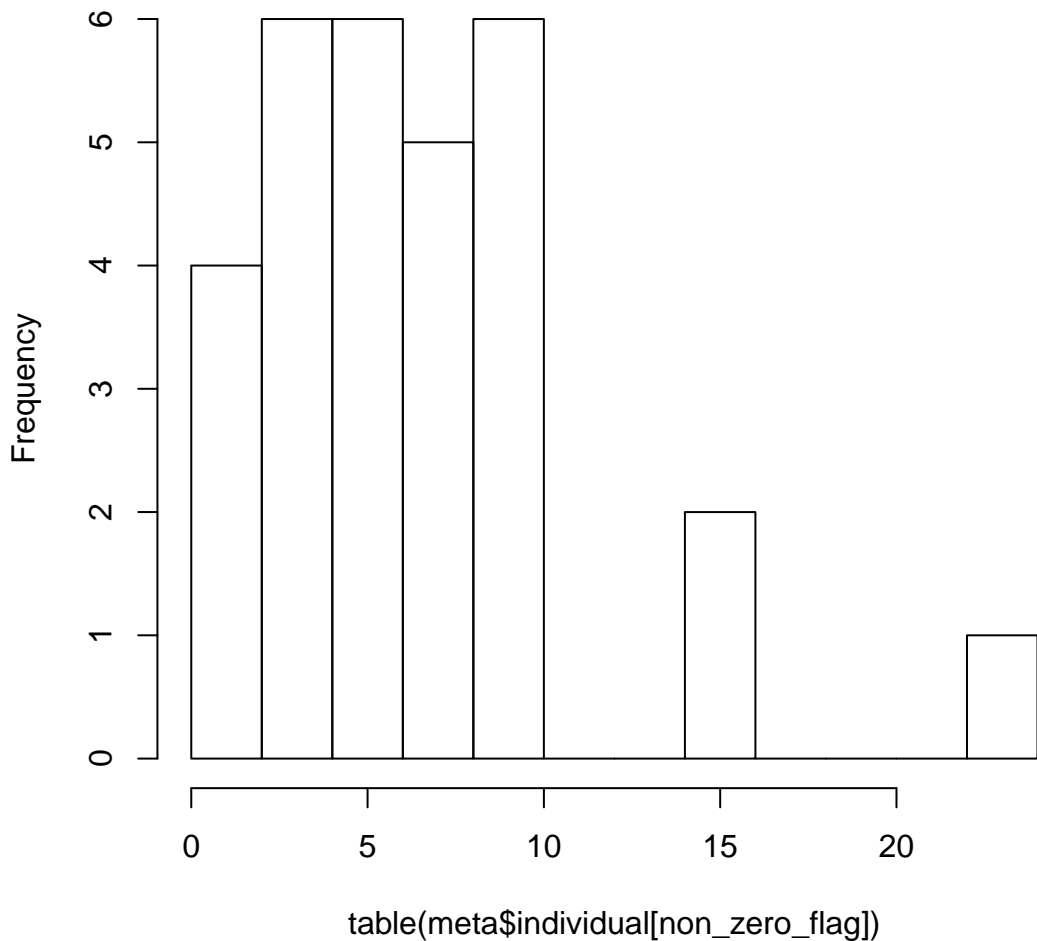


less sig: log expression of gene#232, pval ob=0.1195, non-zero n

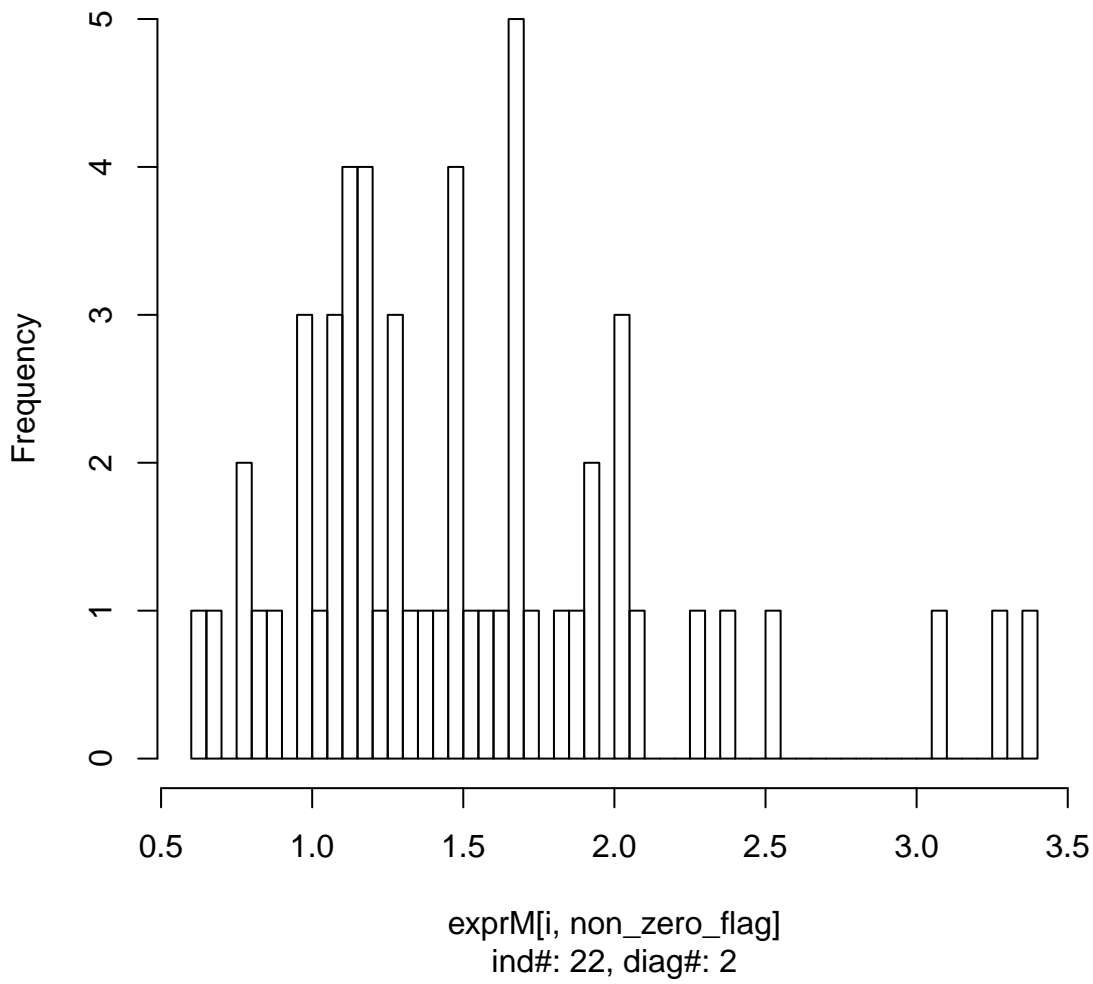




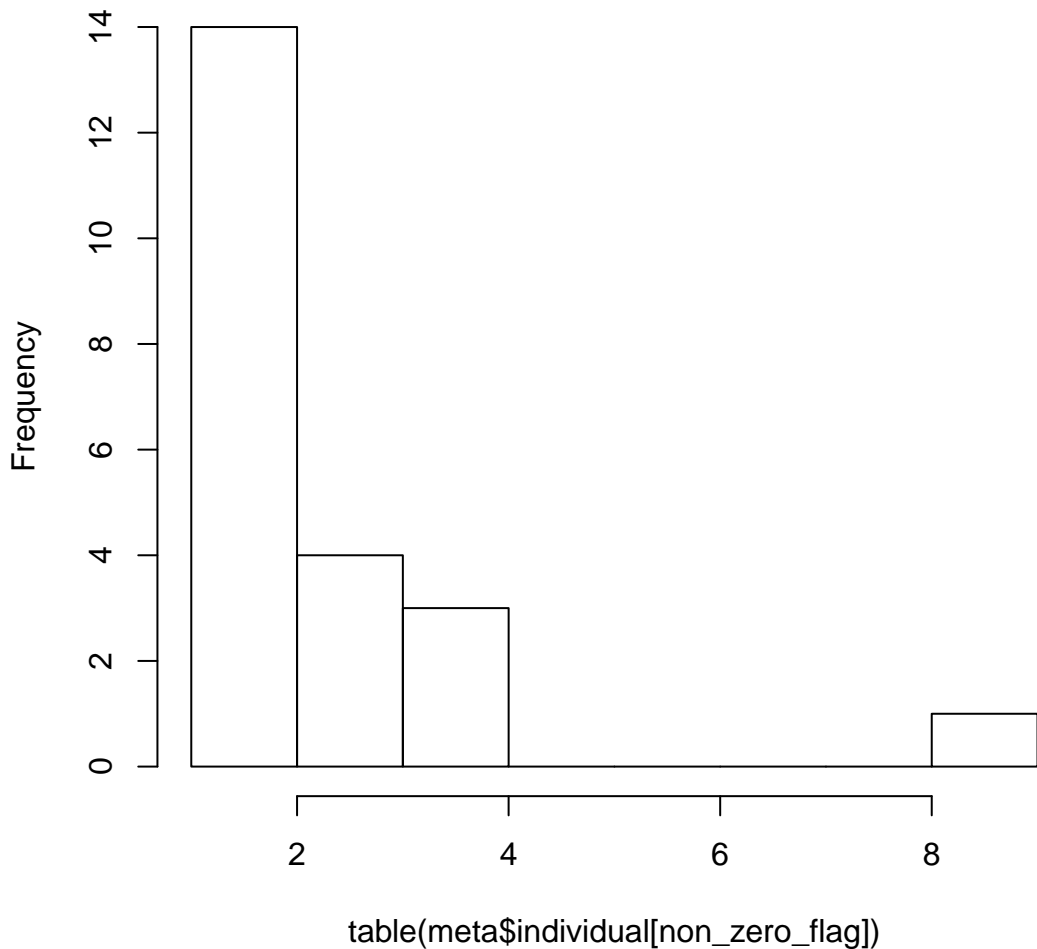
# KSless sig: individual expression cell count of gene#232



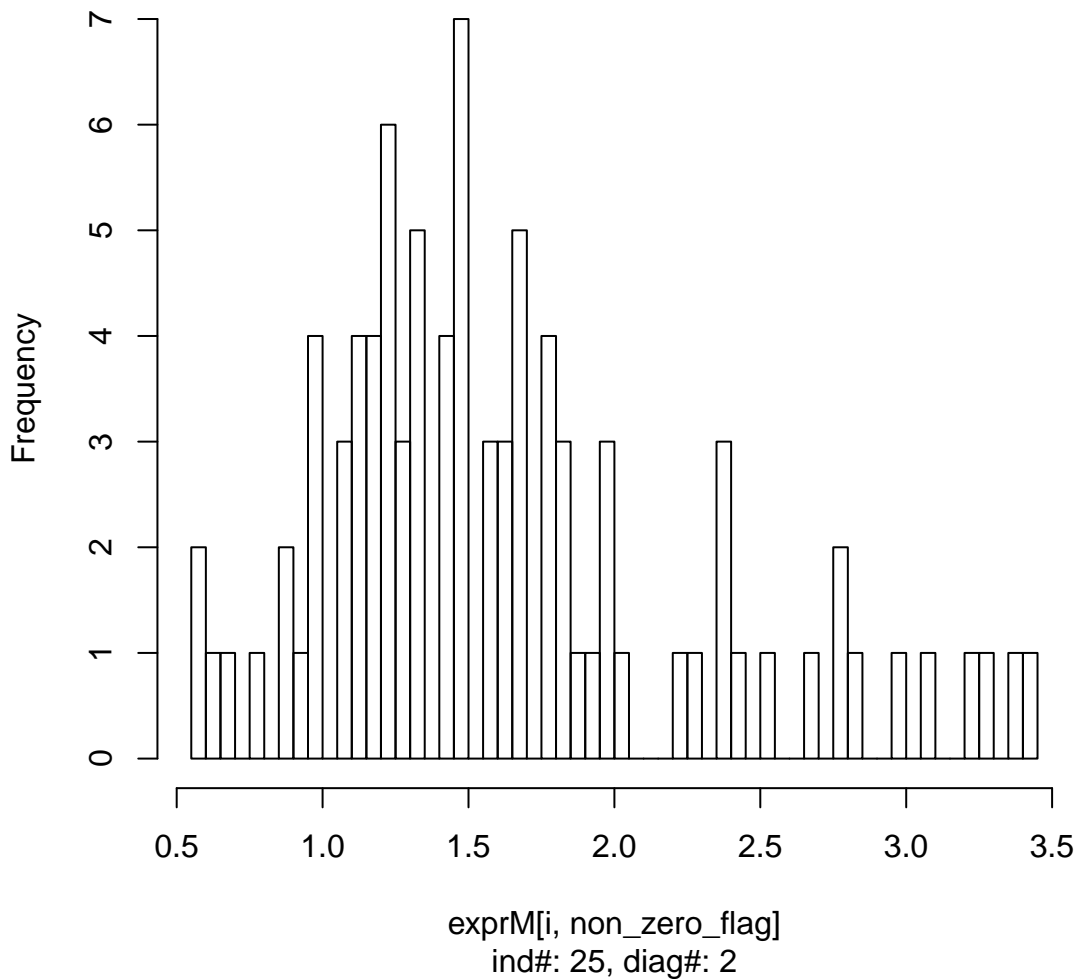
less sig: log expression of gene#239, pval ob=0.5923, non-zero n



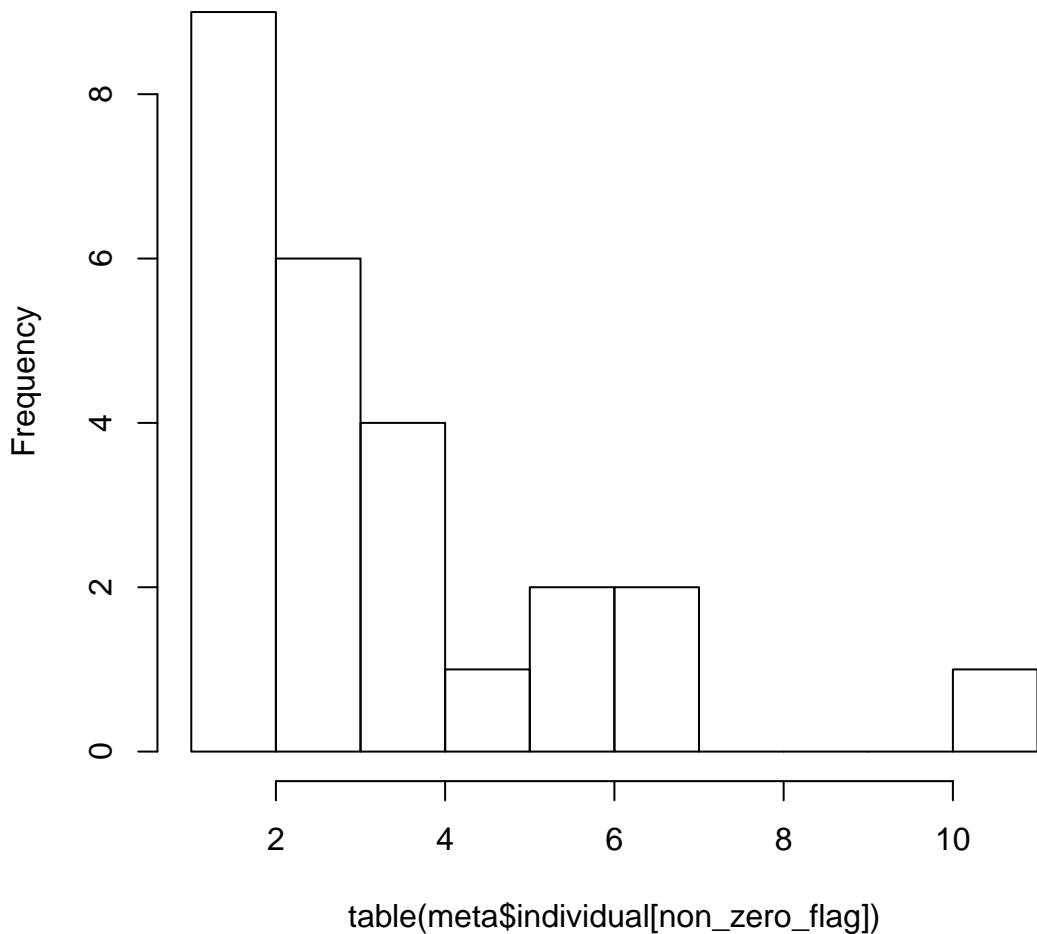
# KSless sig: individual expression cell count of gene#239



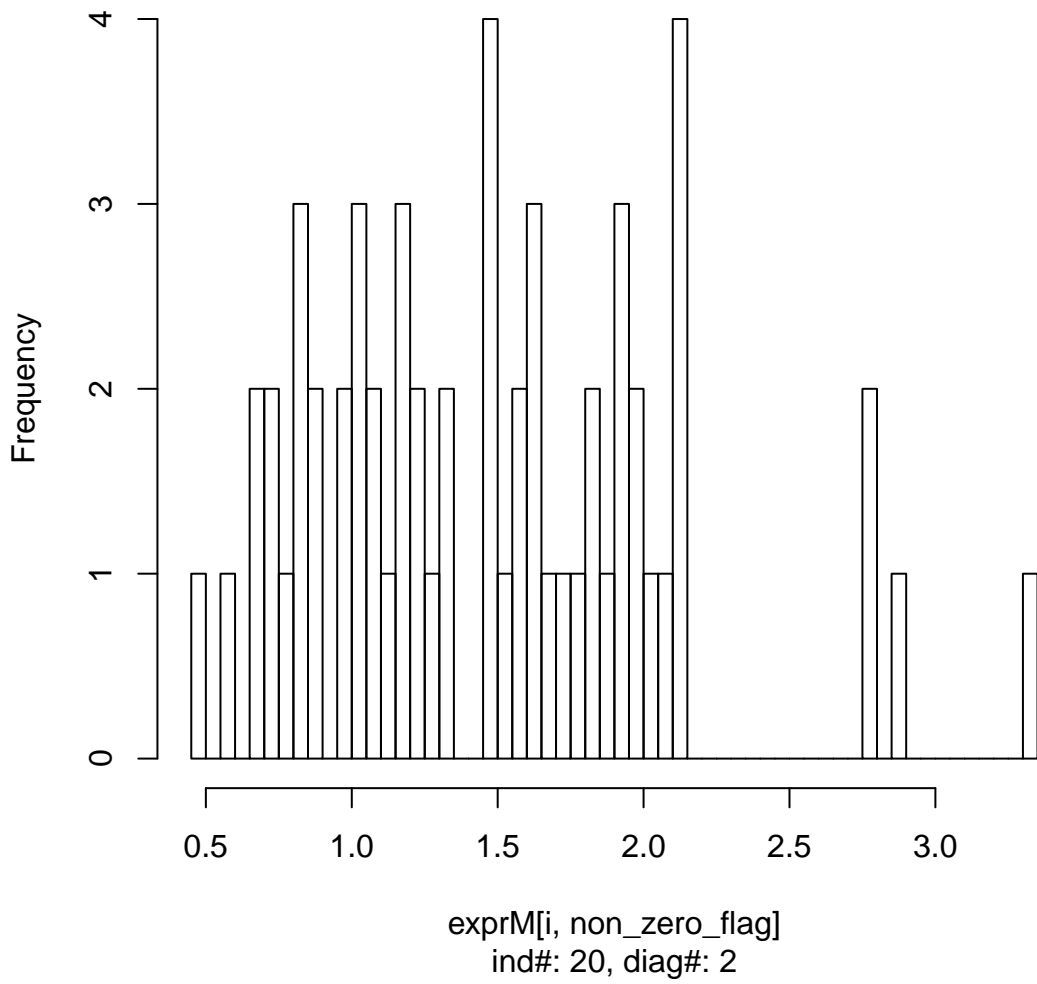
less sig: log expression of gene#272, pval ob=0.3744, non-zero n



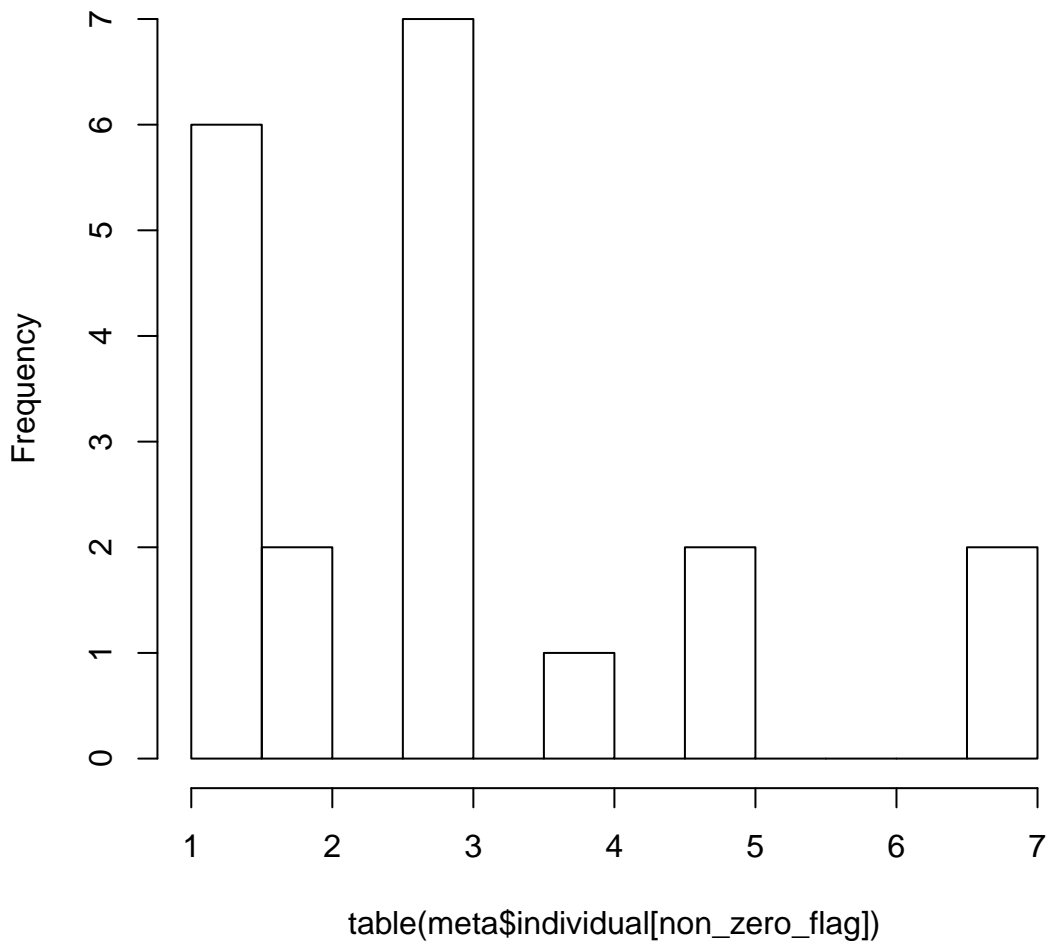
# KSless sig: individual expression cell count of gene#272



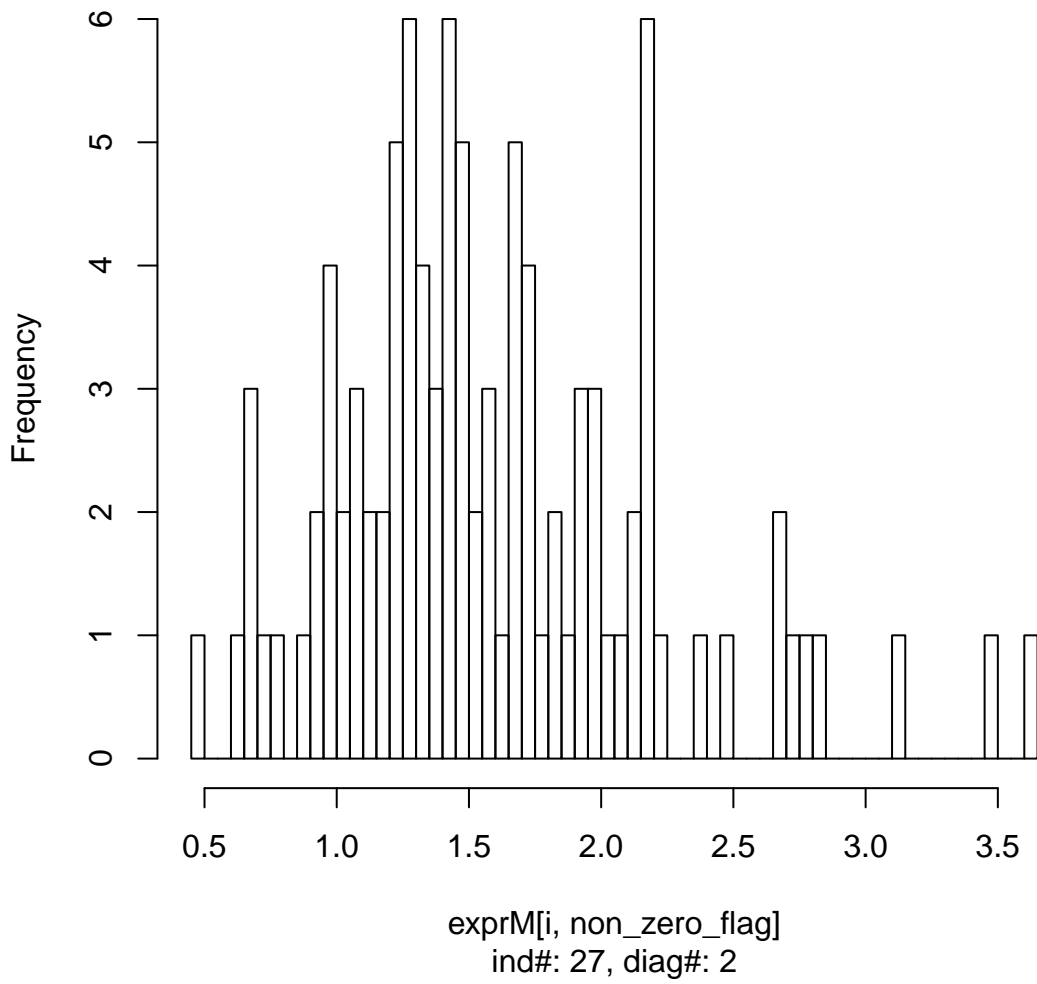
less sig: log expression of gene#315, pval ob=0.2649, non-zero n



# KSless sig: individual expression cell count of gene#315

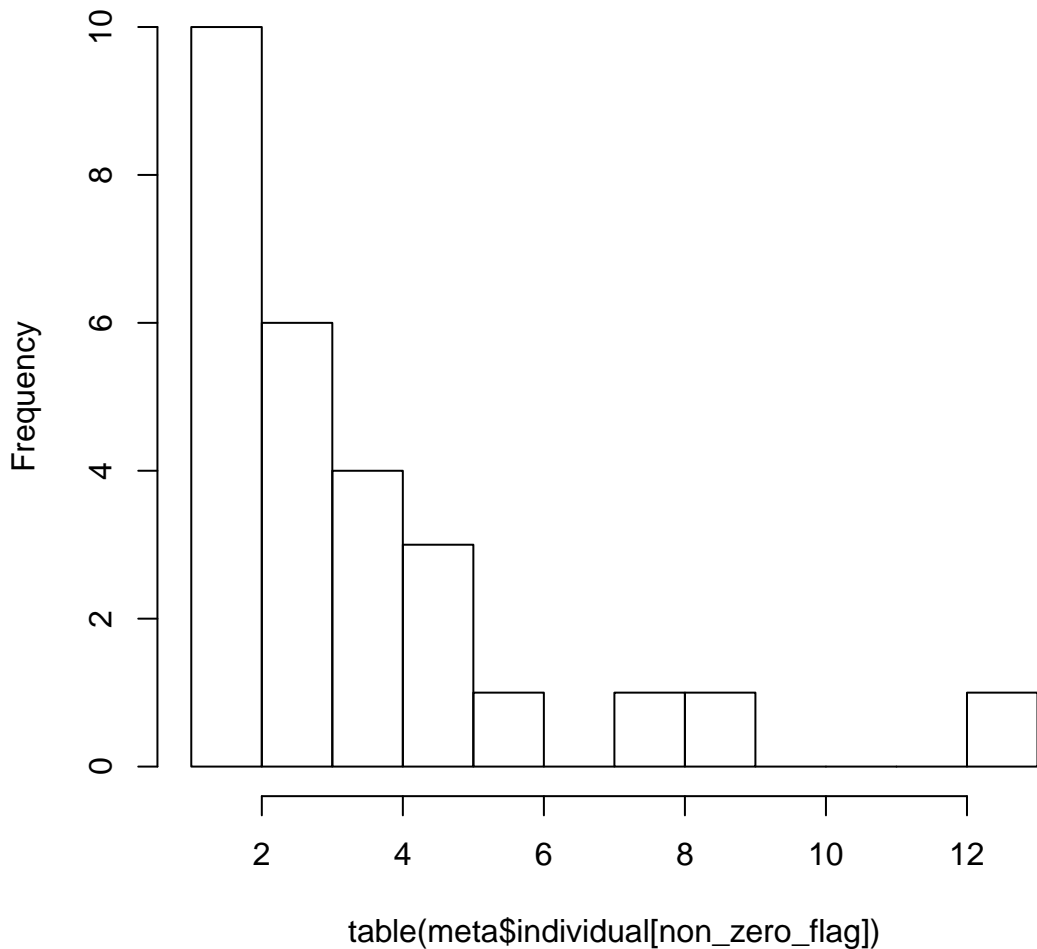


**S nonsig: log expression of gene#8, pval ob=0.6848, non-zero nu**

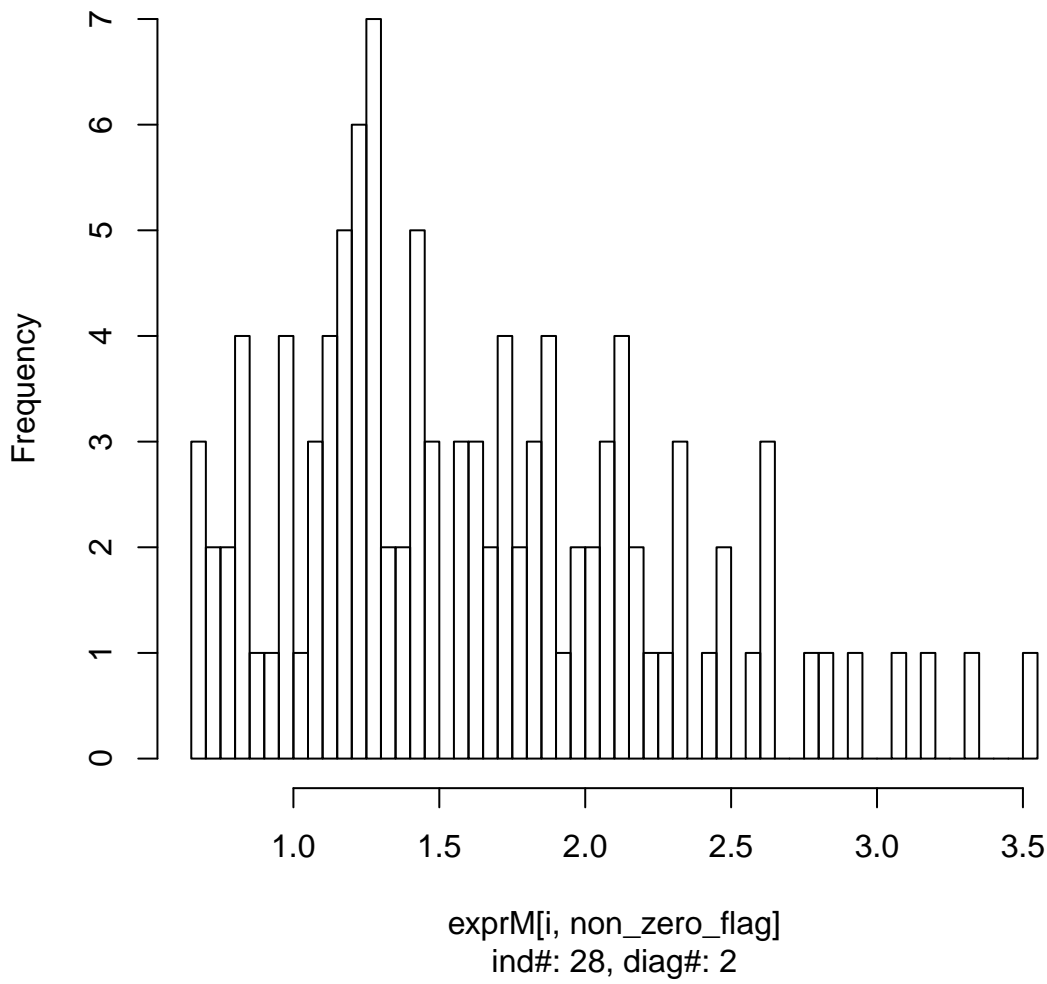




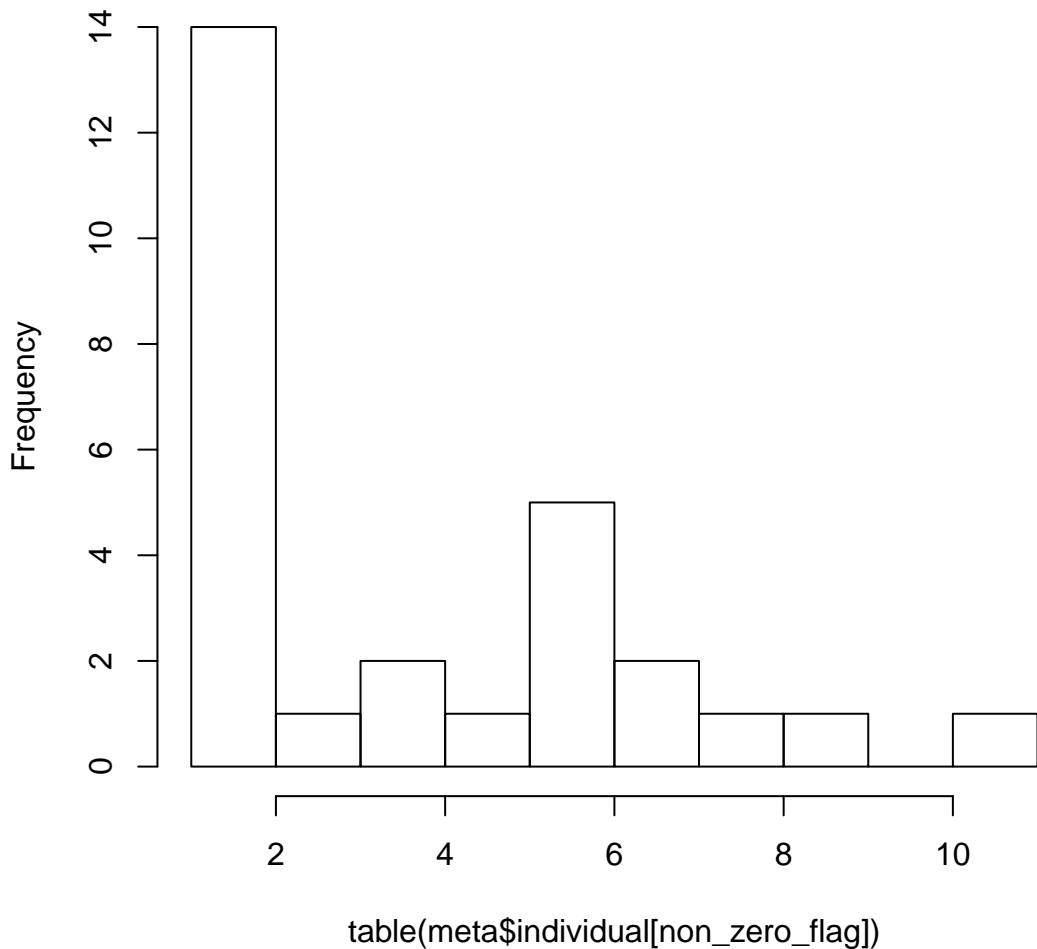
# KSless nonsig: individual expression cell count of gene#8



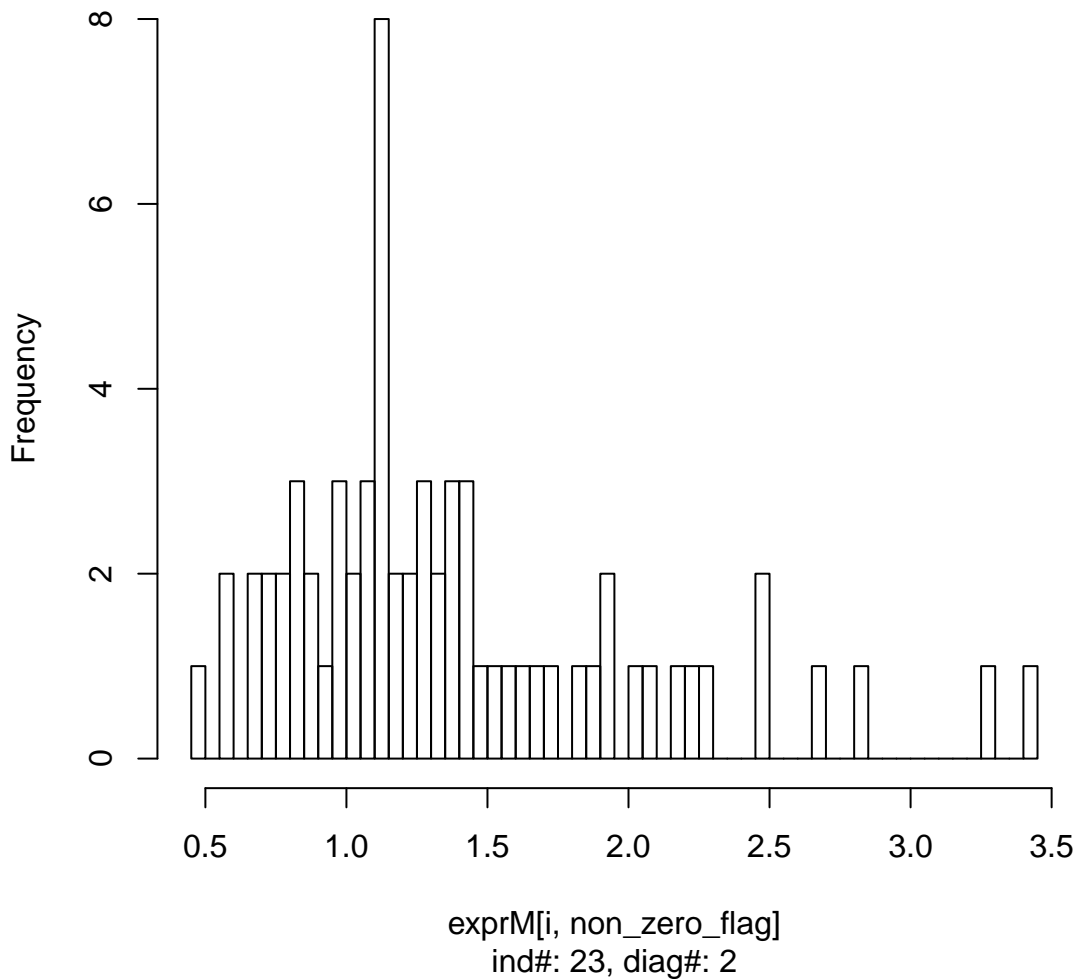
**S nonsig: log expression of gene#10, pval ob=0.517, non-zero nu**



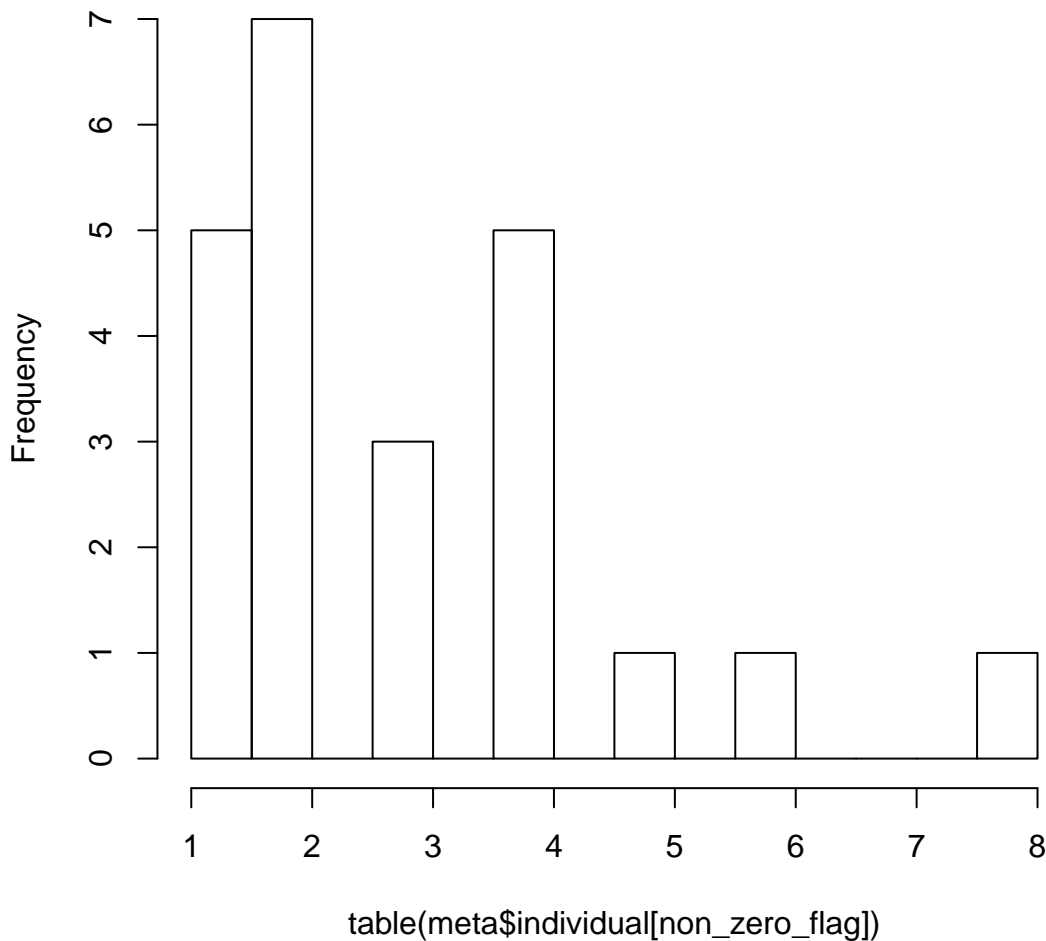
# KSless nonsig: individual expression cell count of gene#10



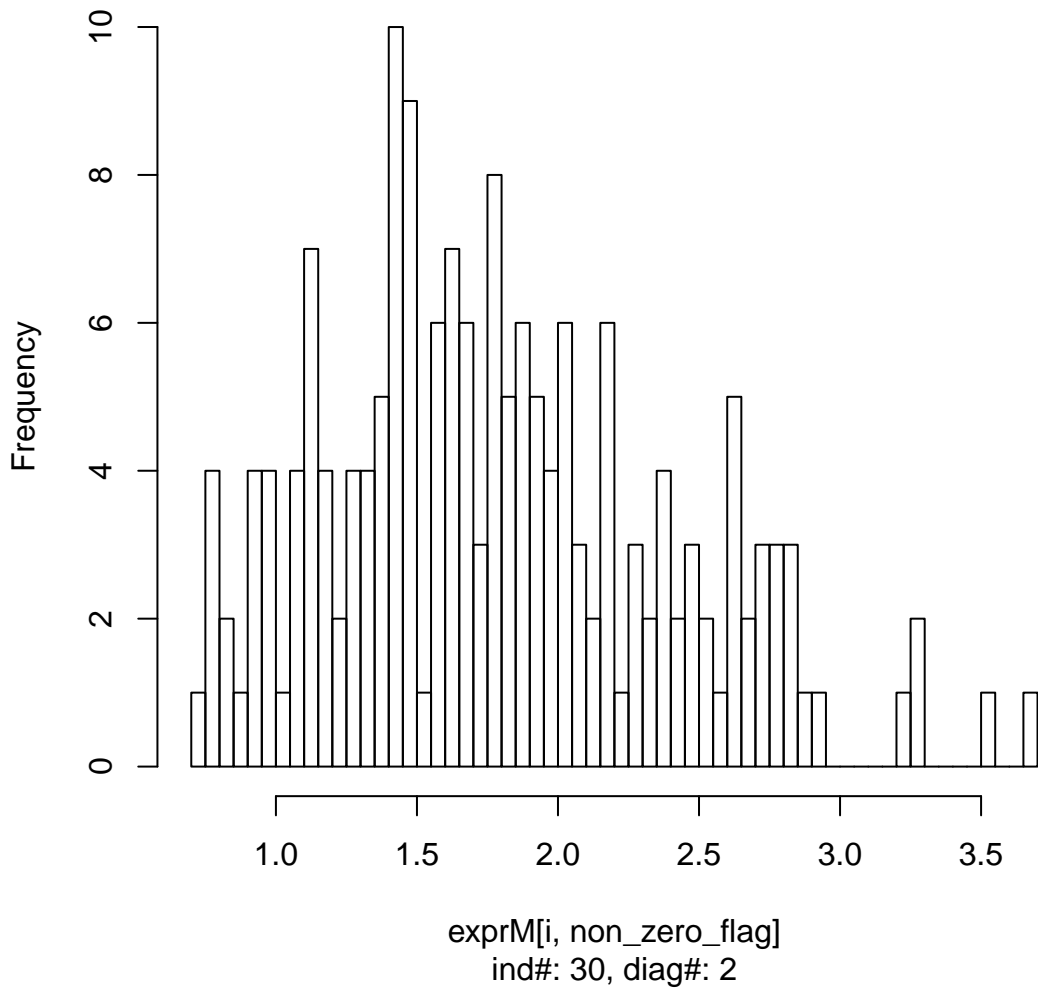
**S nonsig: log expression of gene#12, pval ob=0.8043, non-zero n**



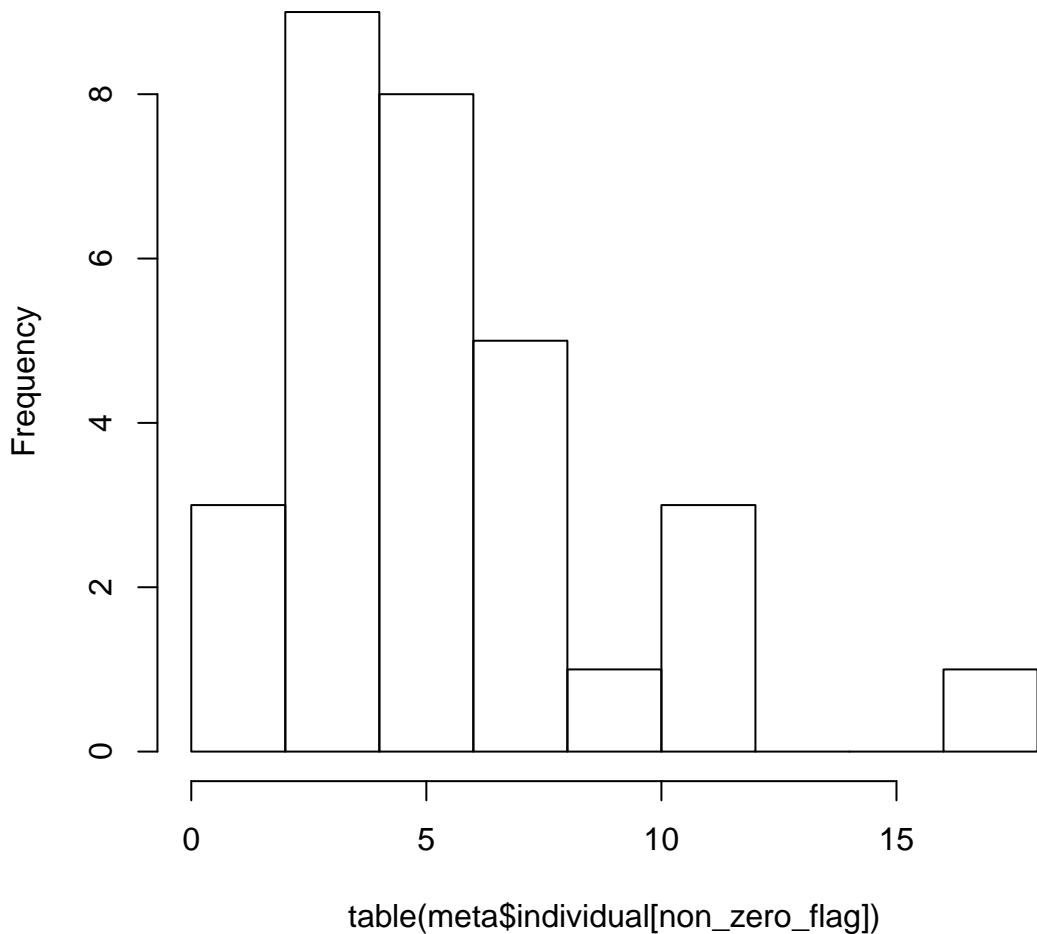
# KSless nonsig: individual expression cell count of gene#12



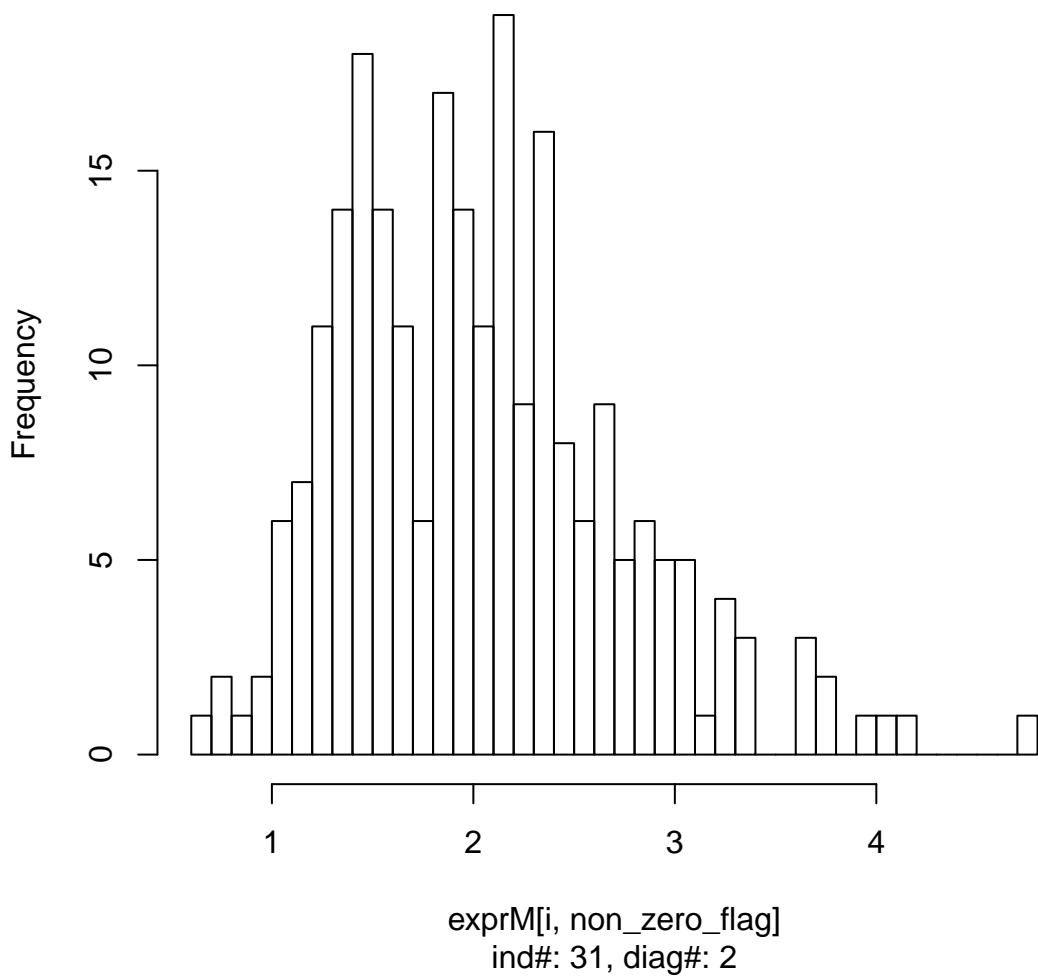
**S nonsig: log expression of gene#17, pval ob=0.26, non-zero num**



# KSless nonsig: individual expression cell count of gene#17

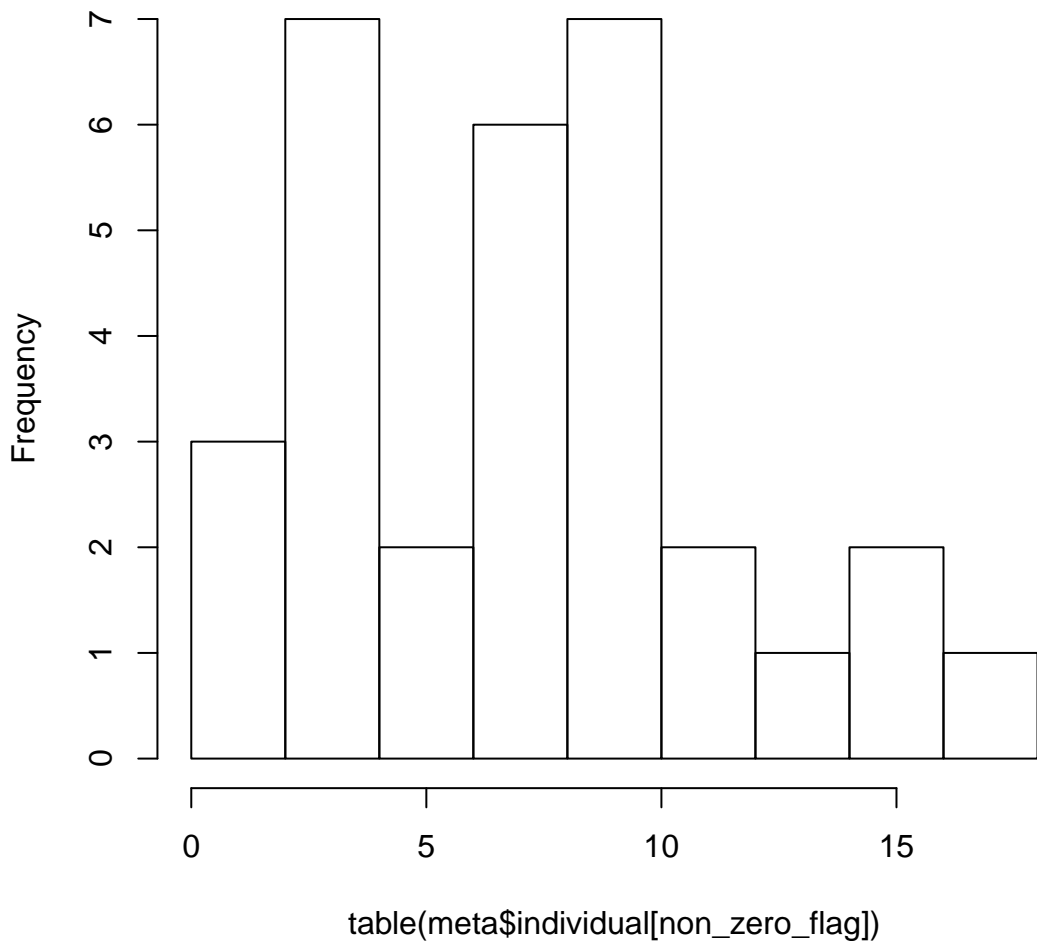


nsig: log expression of gene#23, pval ob=0.2645, non-zero nu

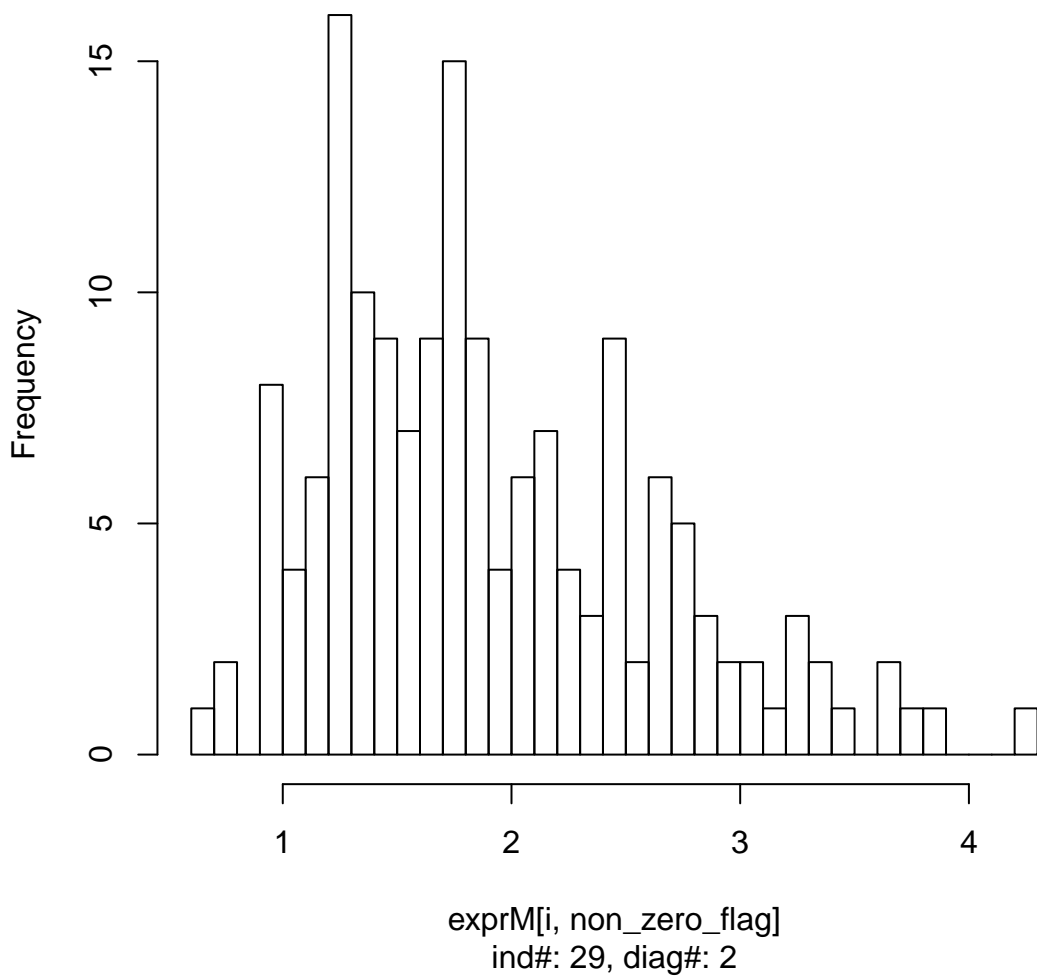




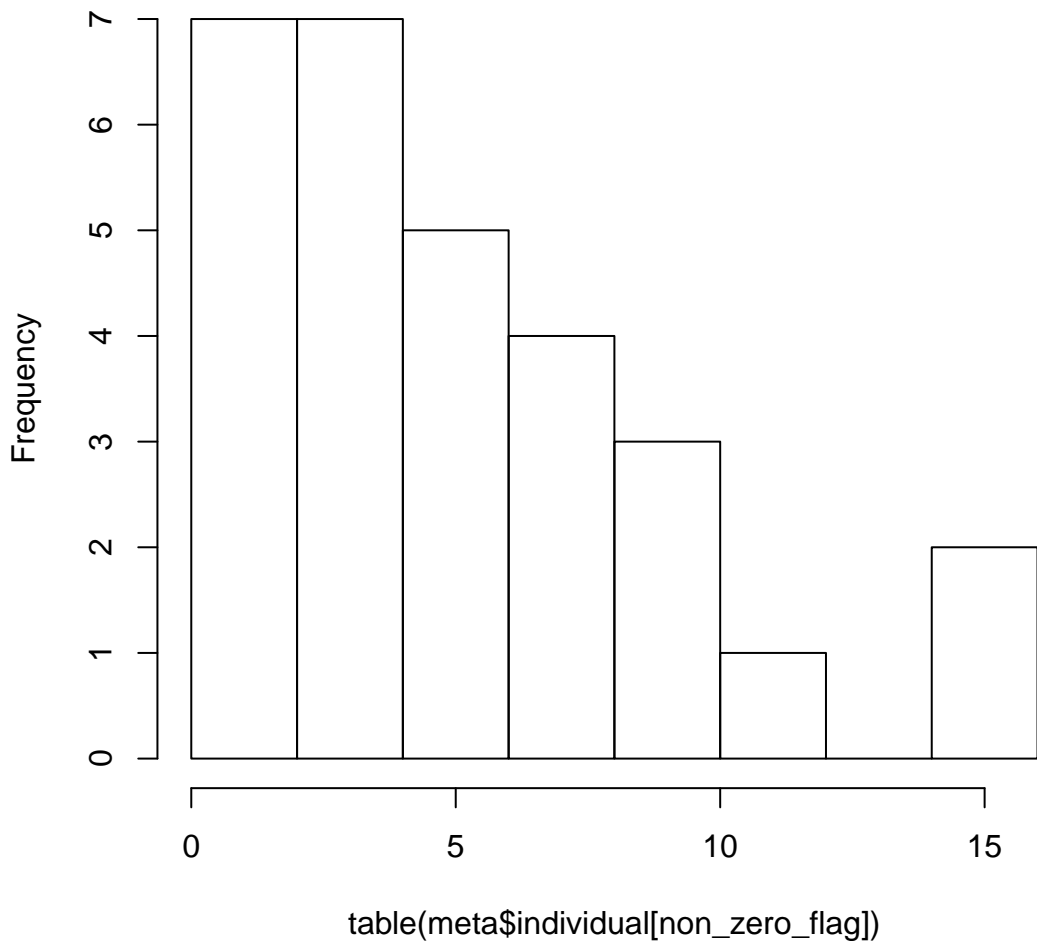
# KSless nonsig: individual expression cell count of gene#23



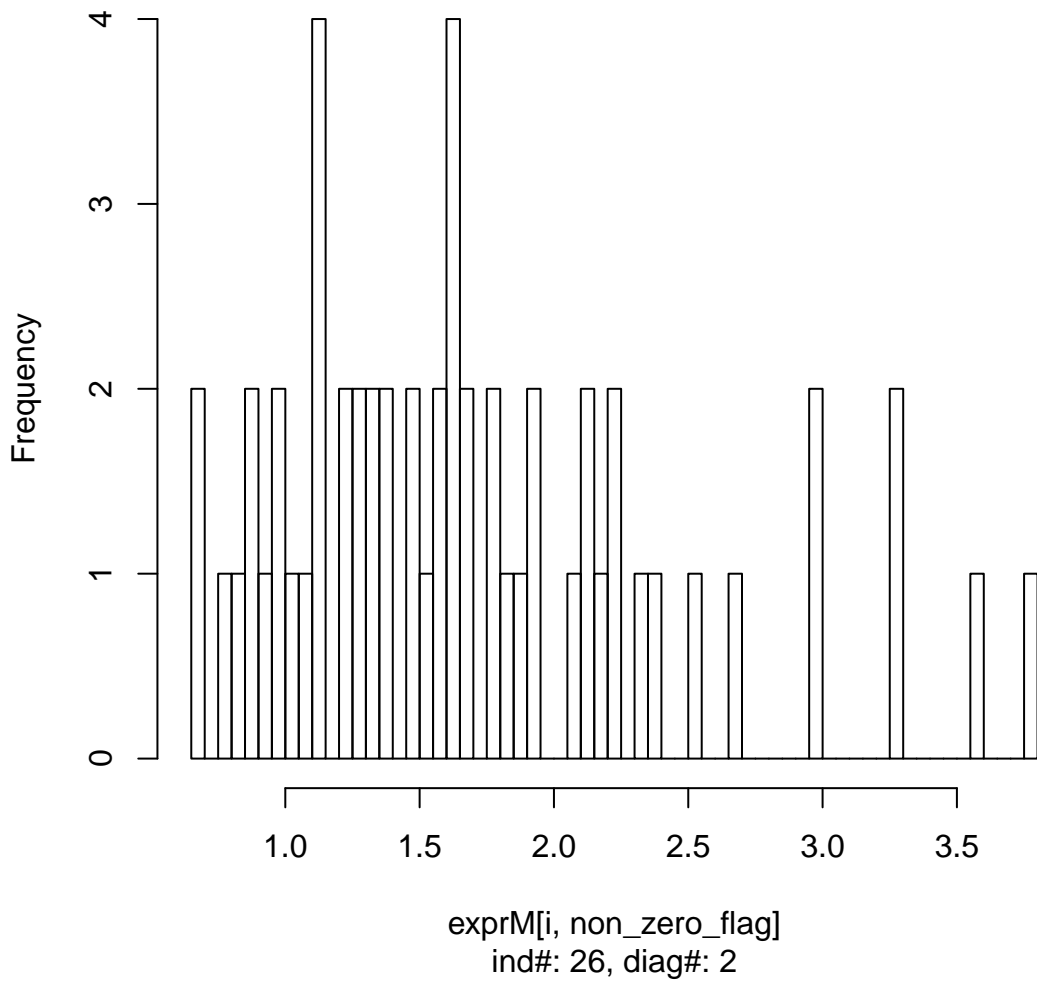
nsig: log expression of gene#32, pval ob=0.5073, non-zero nu



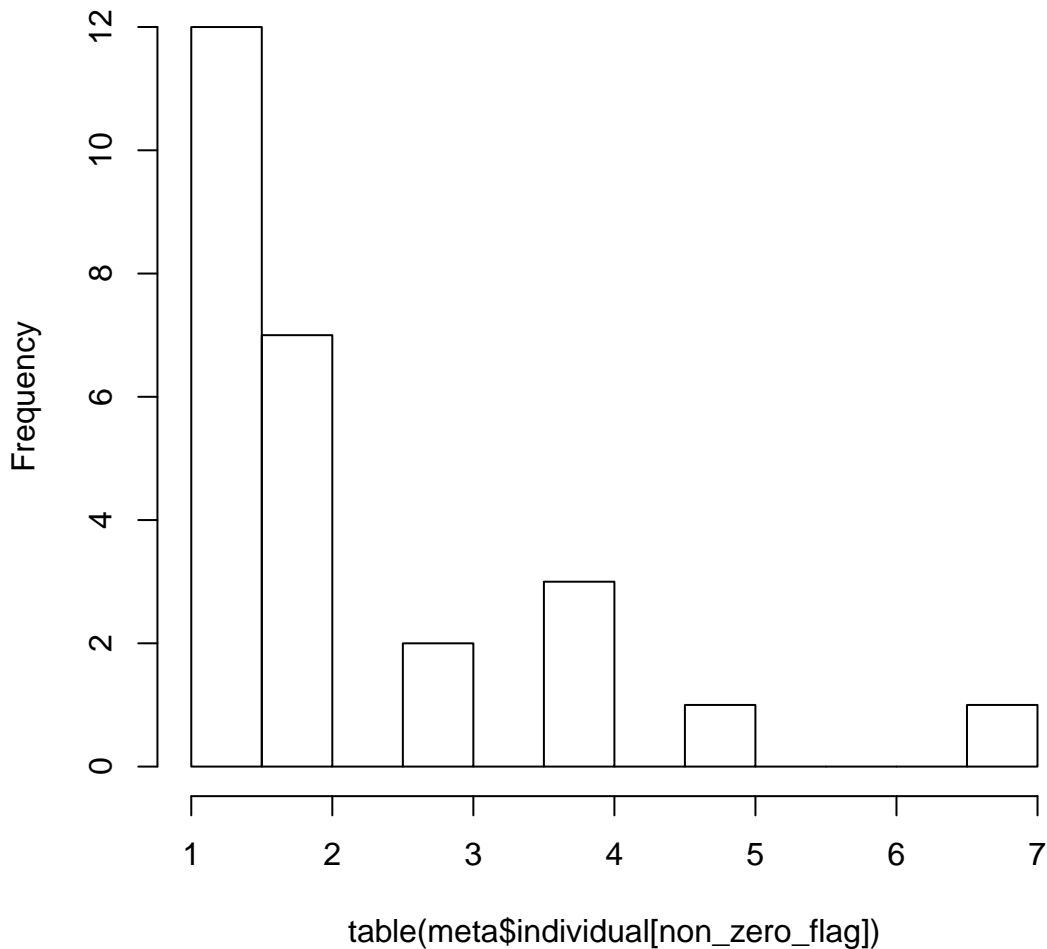
# KSless nonsig: individual expression cell count of gene#32



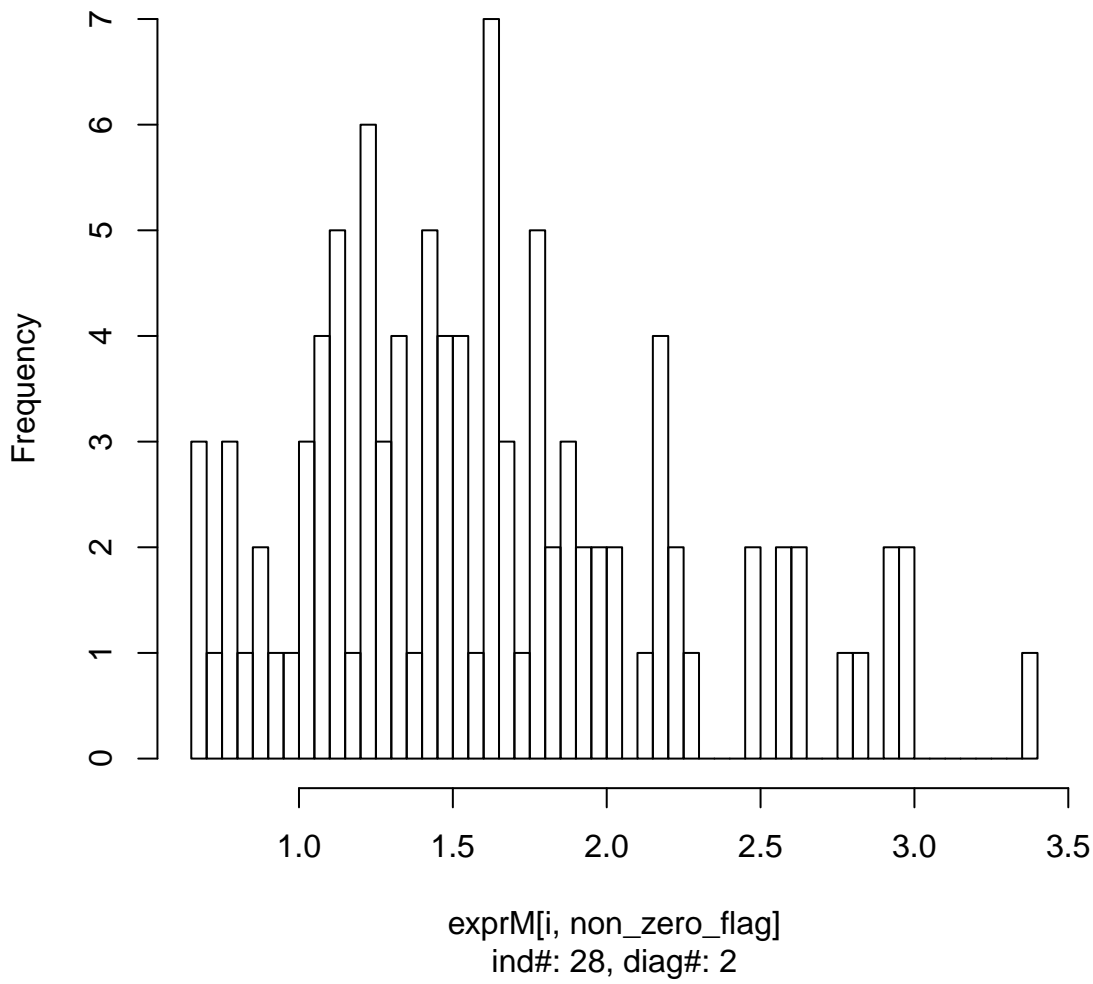
**S nonsig: log expression of gene#36, pval ob=0.0202, non-zero n**



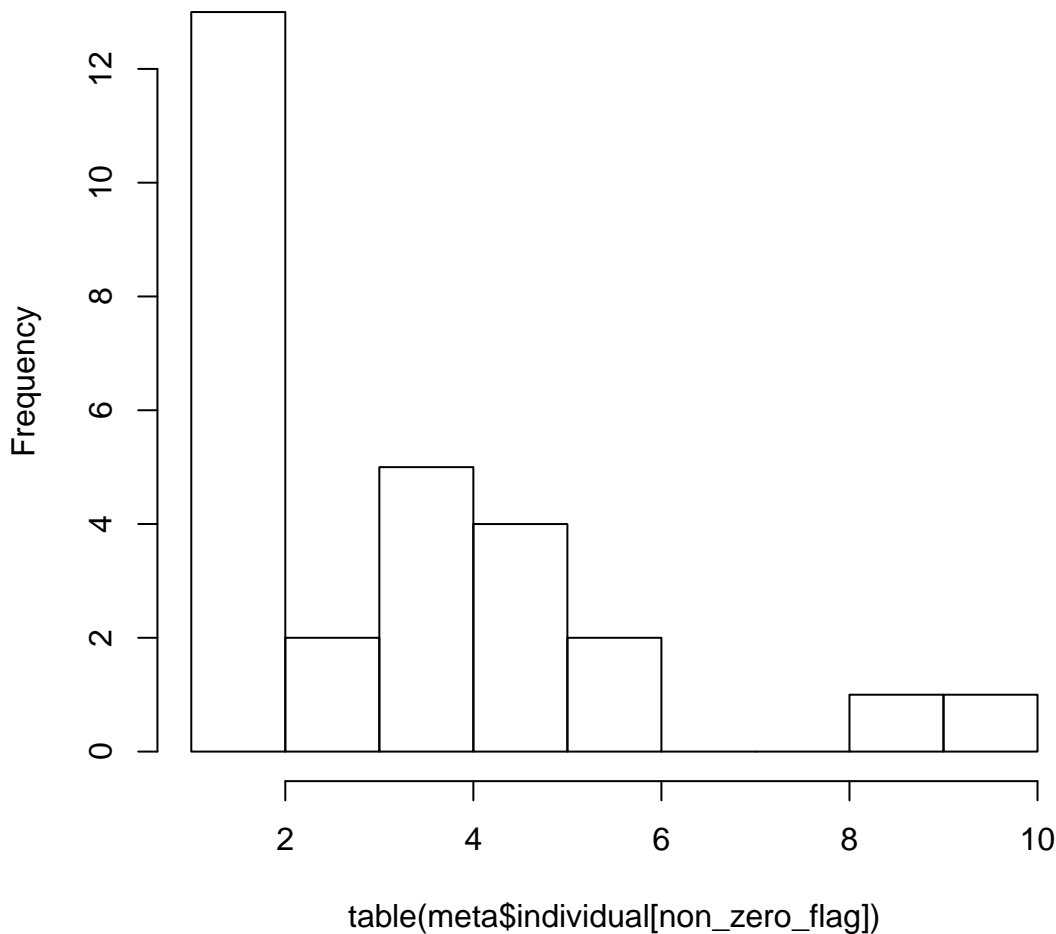
# KSless nonsig: individual expression cell count of gene#36



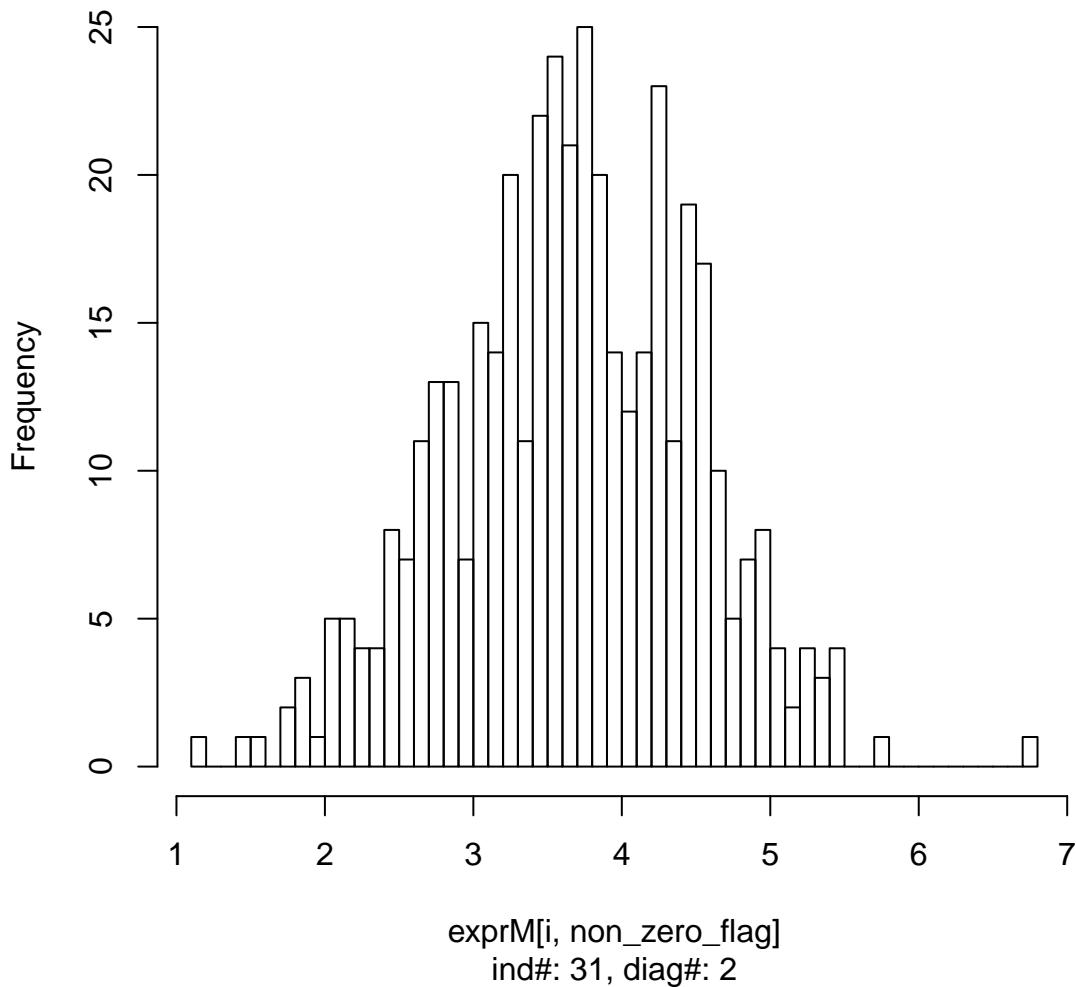
nsig: log expression of gene#44, pval ob=0.0462, non-zero nu



# KSless nonsig: individual expression cell count of gene#44

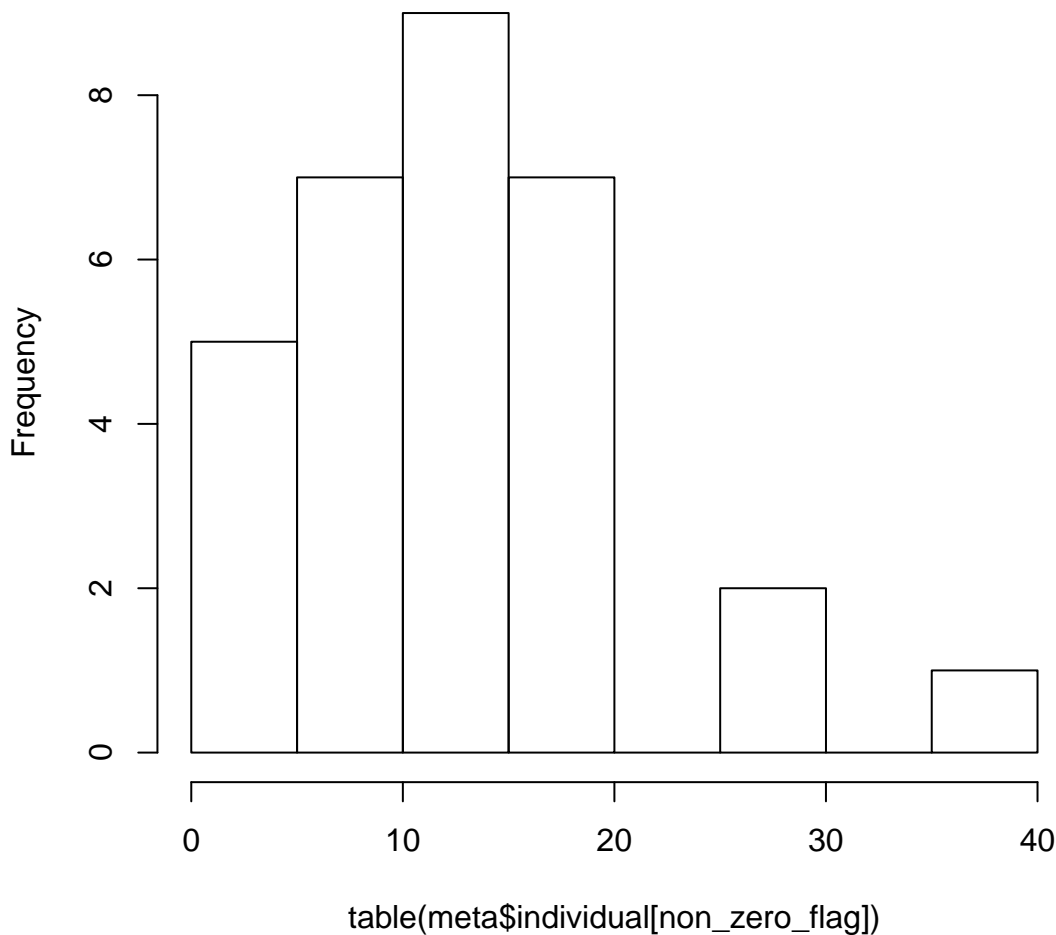


nsig: log expression of gene#45, pval ob=0.0763, non-zero nu

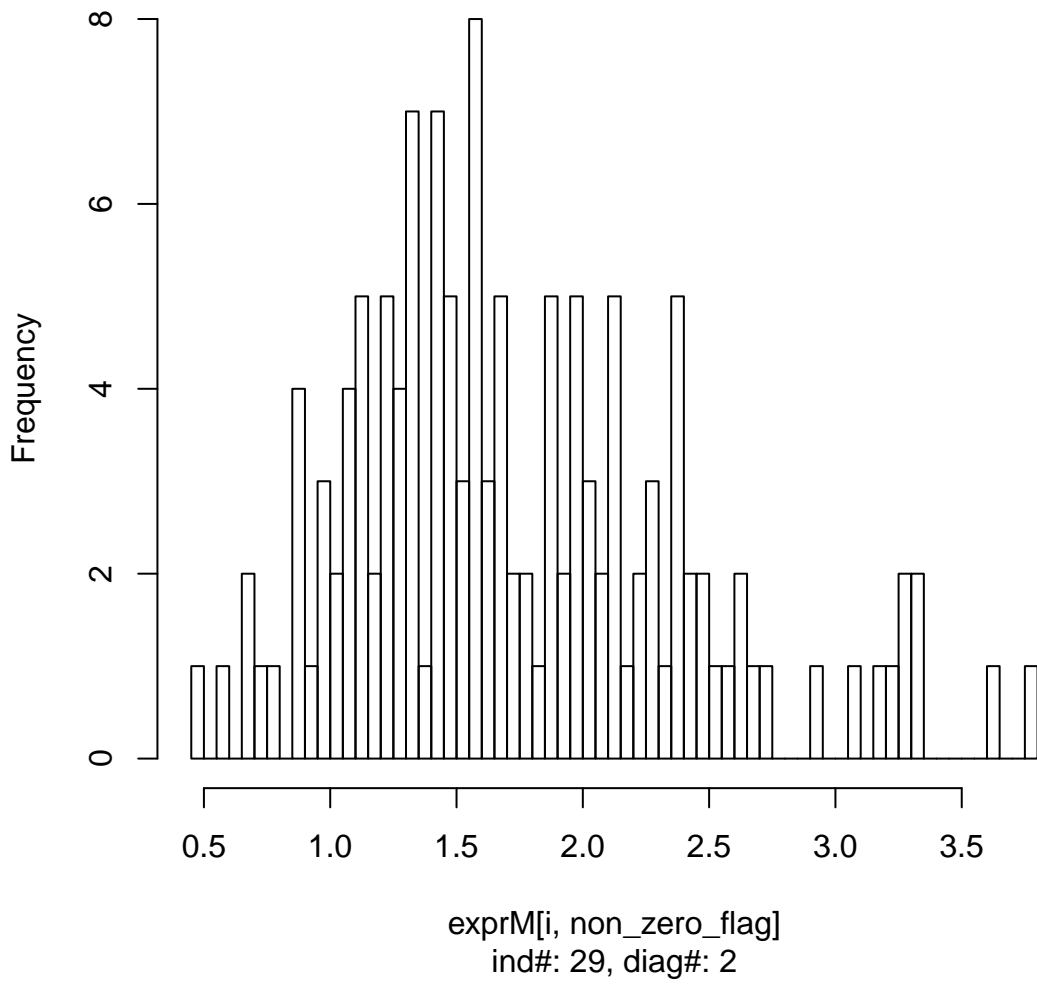




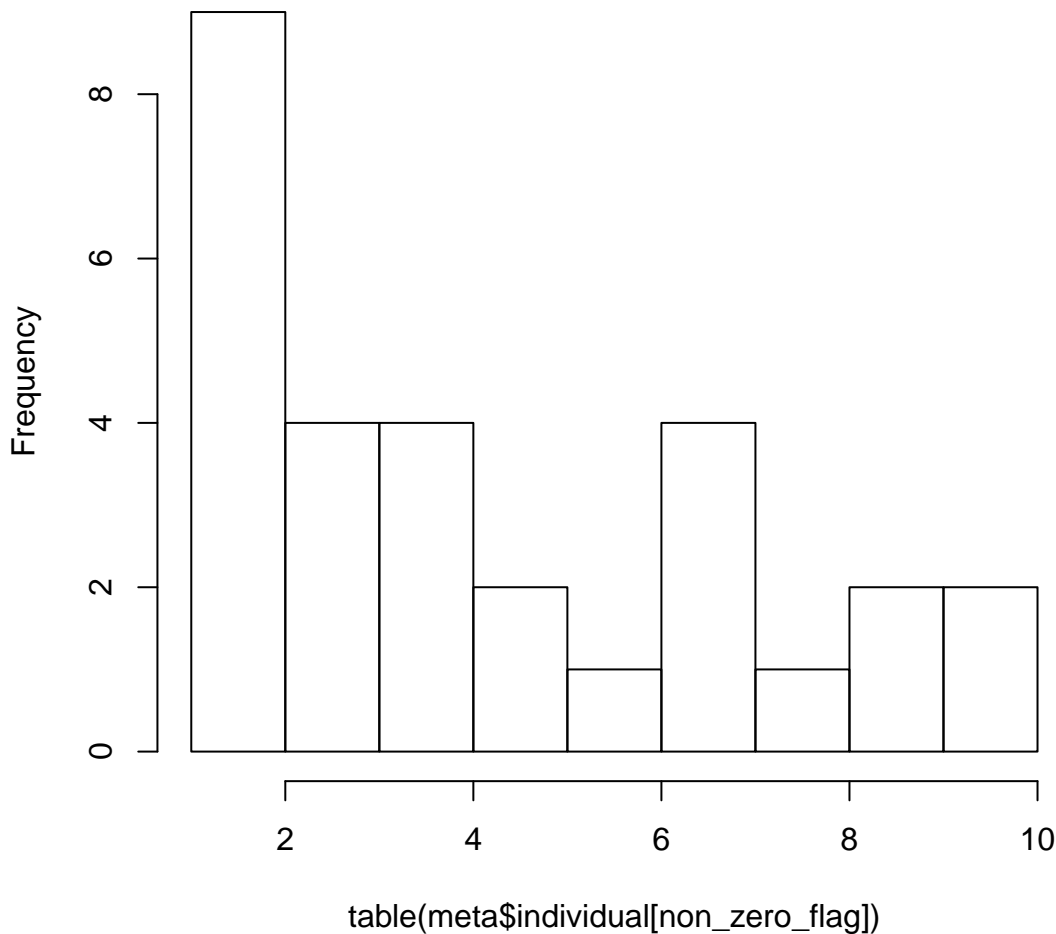
# KSless nonsig: individual expression cell count of gene#45



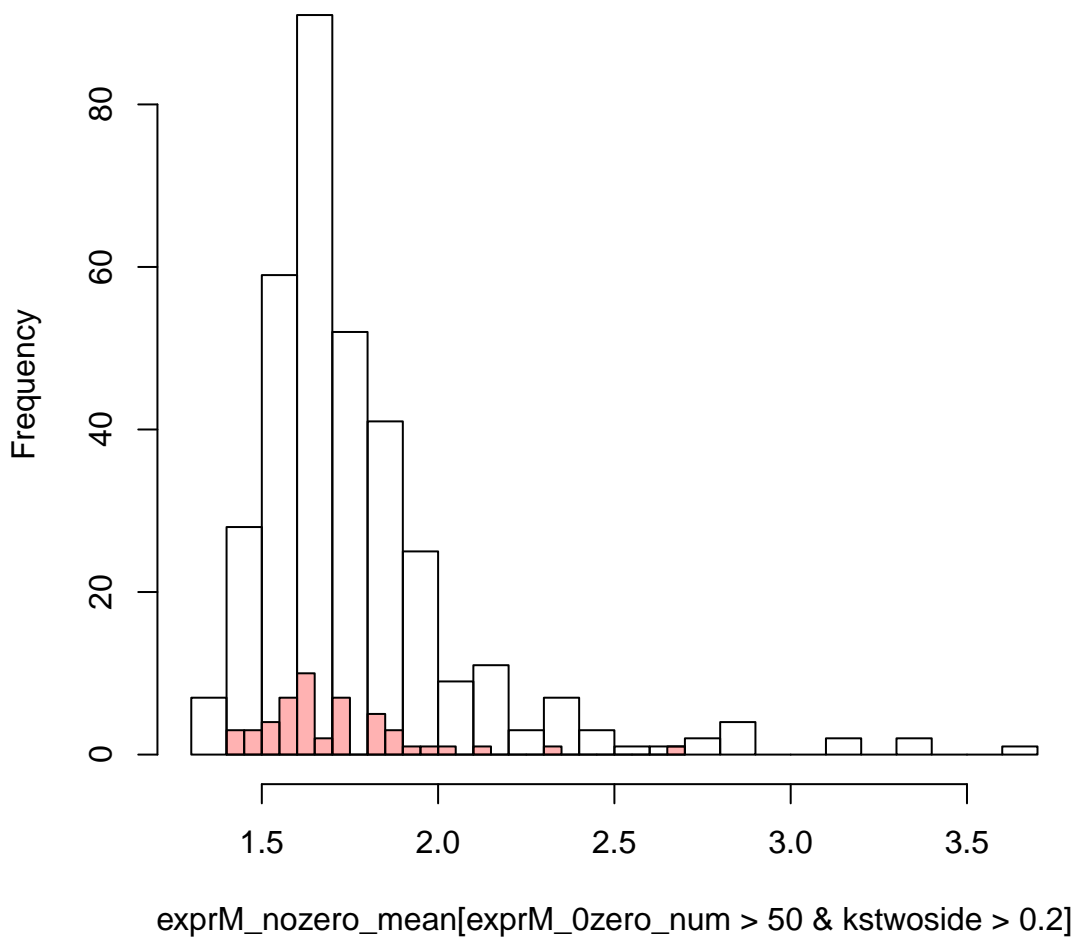
nsig: log expression of gene#47, pval ob=0.7348, non-zero nu



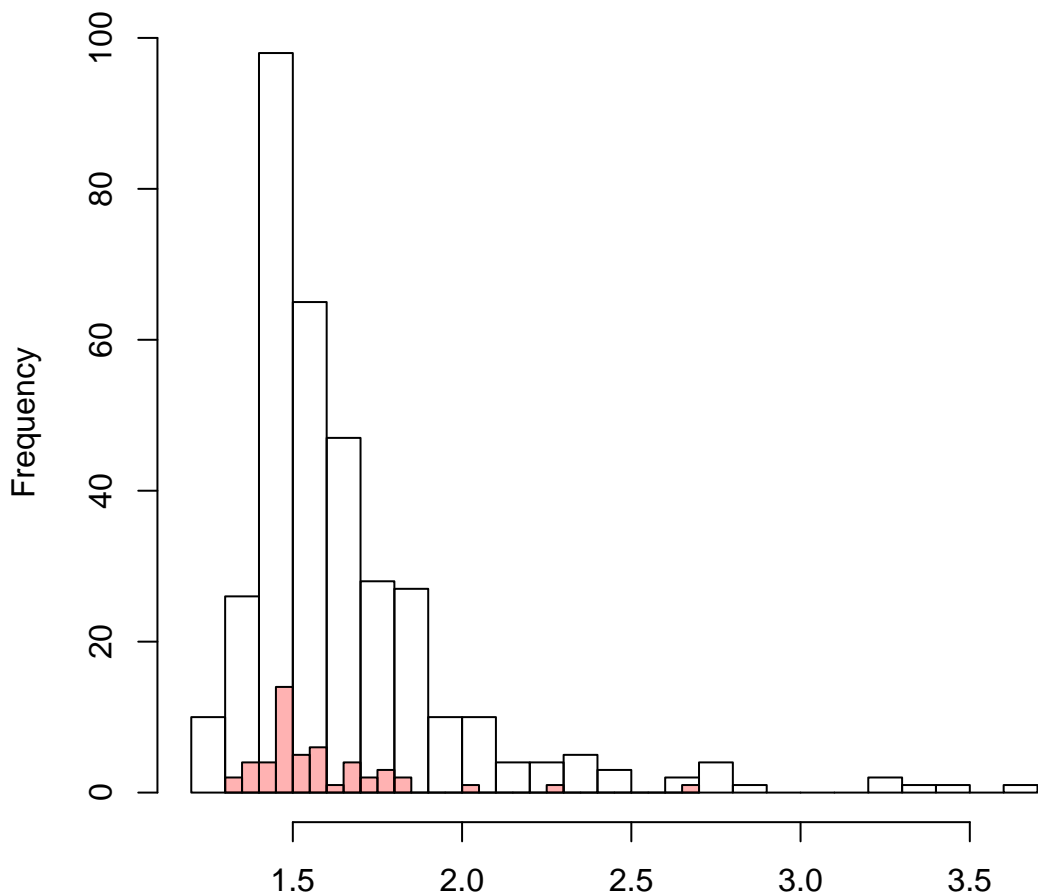
# KSless nonsig: individual expression cell count of gene#47



ogram of exprM\_nozero\_mean[exprM\_0zero\_num > 50 & kstwosi

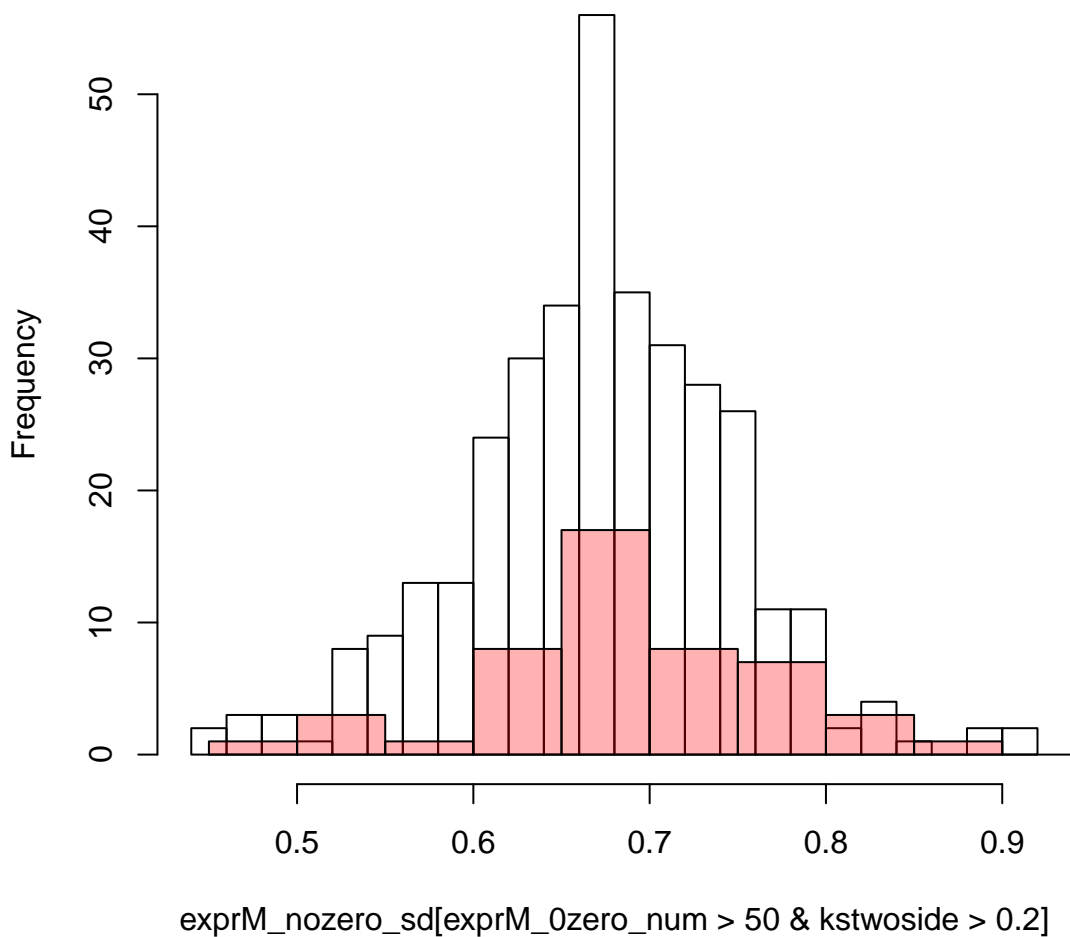


ogram of exprM\_nozero\_median[exprM\_0zero\_num > 50 & kstvos

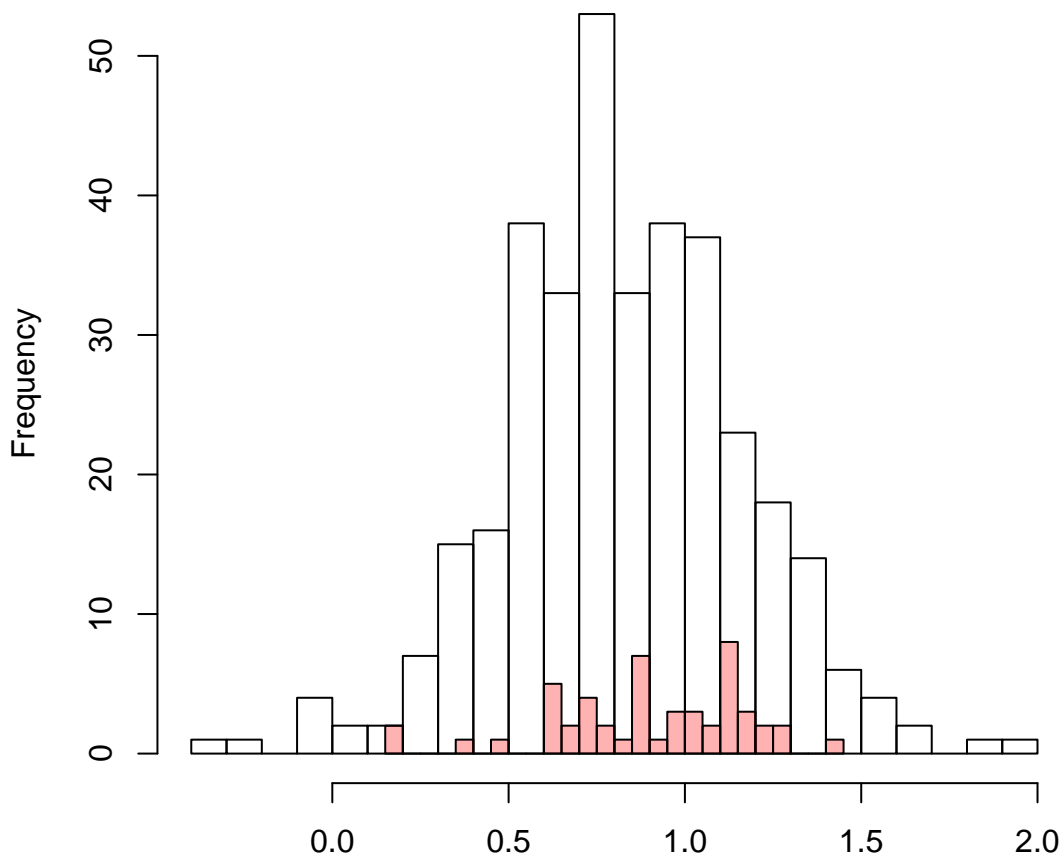


exprM\_nozero\_median[exprM\_0zero\_num > 50 & kstvoside > 0.2]

Histogram of `exprM_nozero_sd[exprM_0zero_num > 50 & kstwoside`

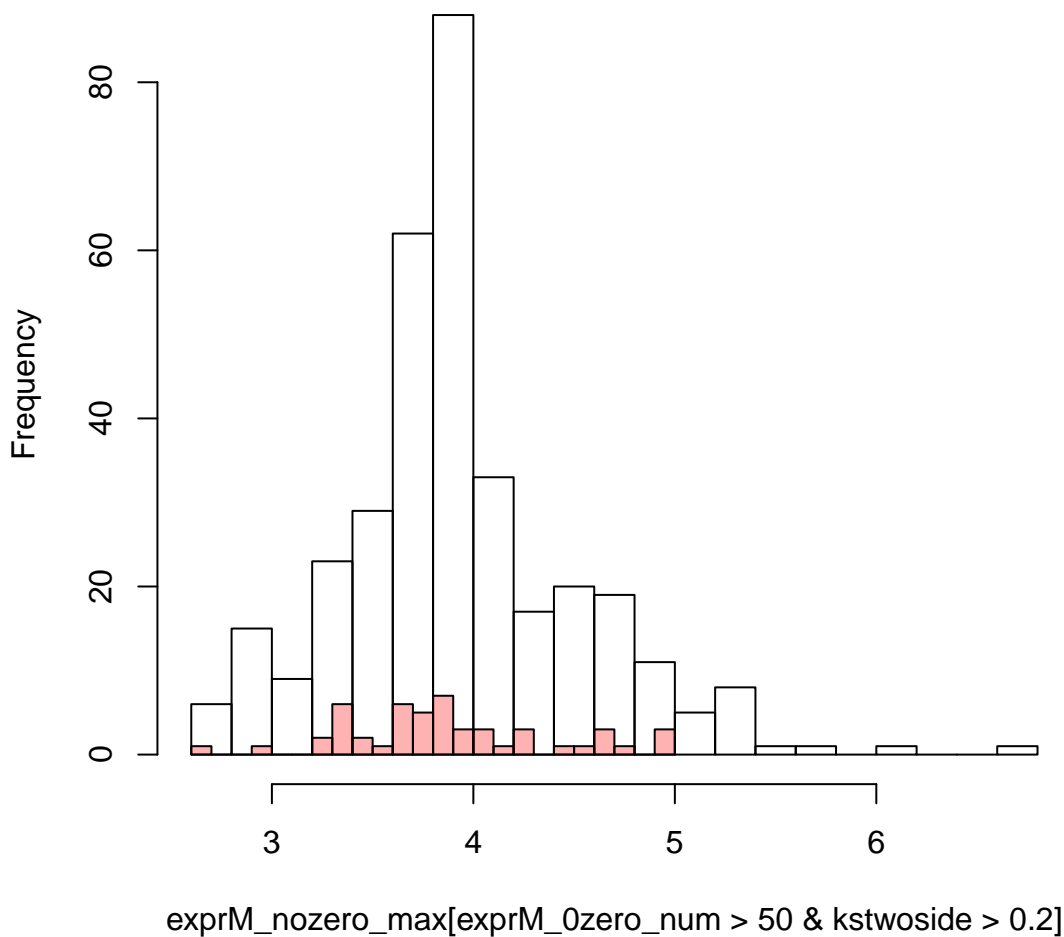


ogram of `exprM_nozero_skewness[exprM_0zero_num > 50 & kstwo`



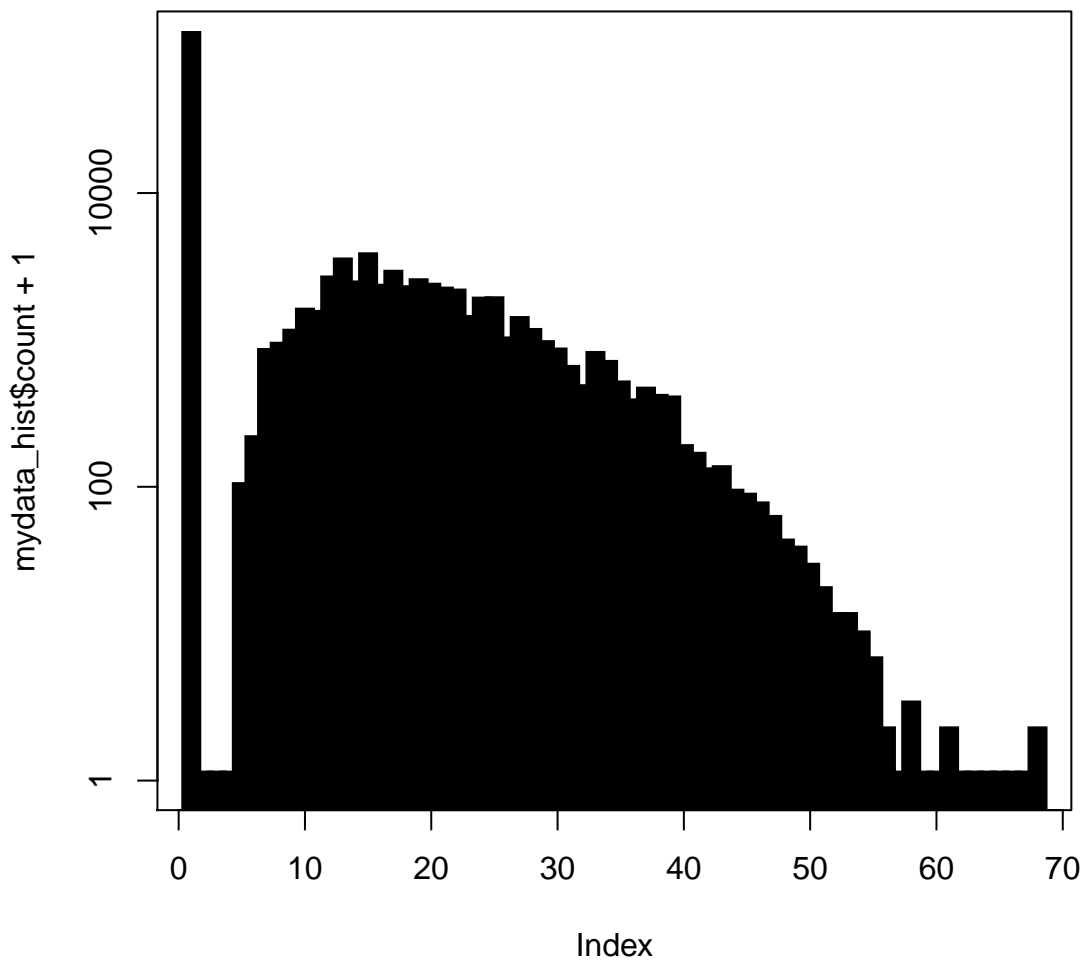
`exprM_nozero_skewness[exprM_0zero_num > 50 & kstwo`

Histogram of `exprM_nozero_max[exprM_0zero_num > 50 & kstwsio`

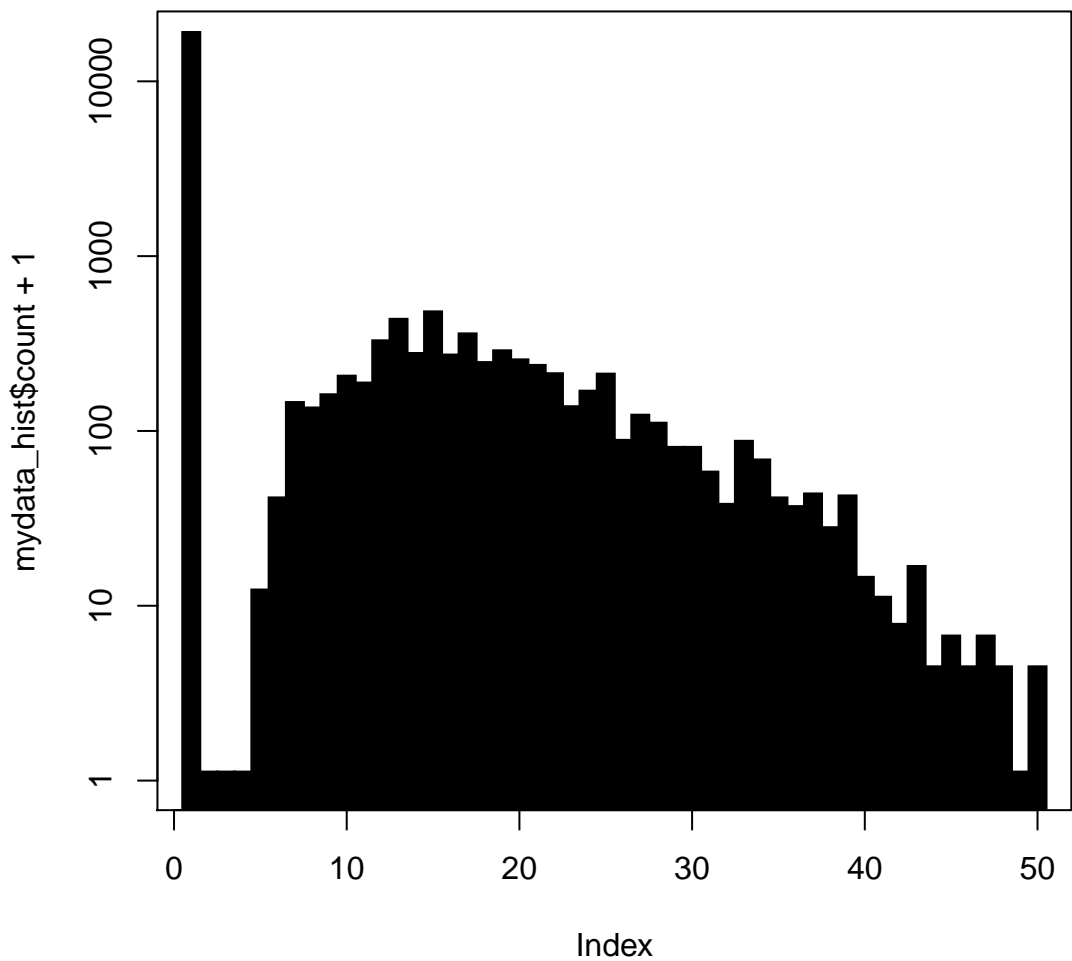




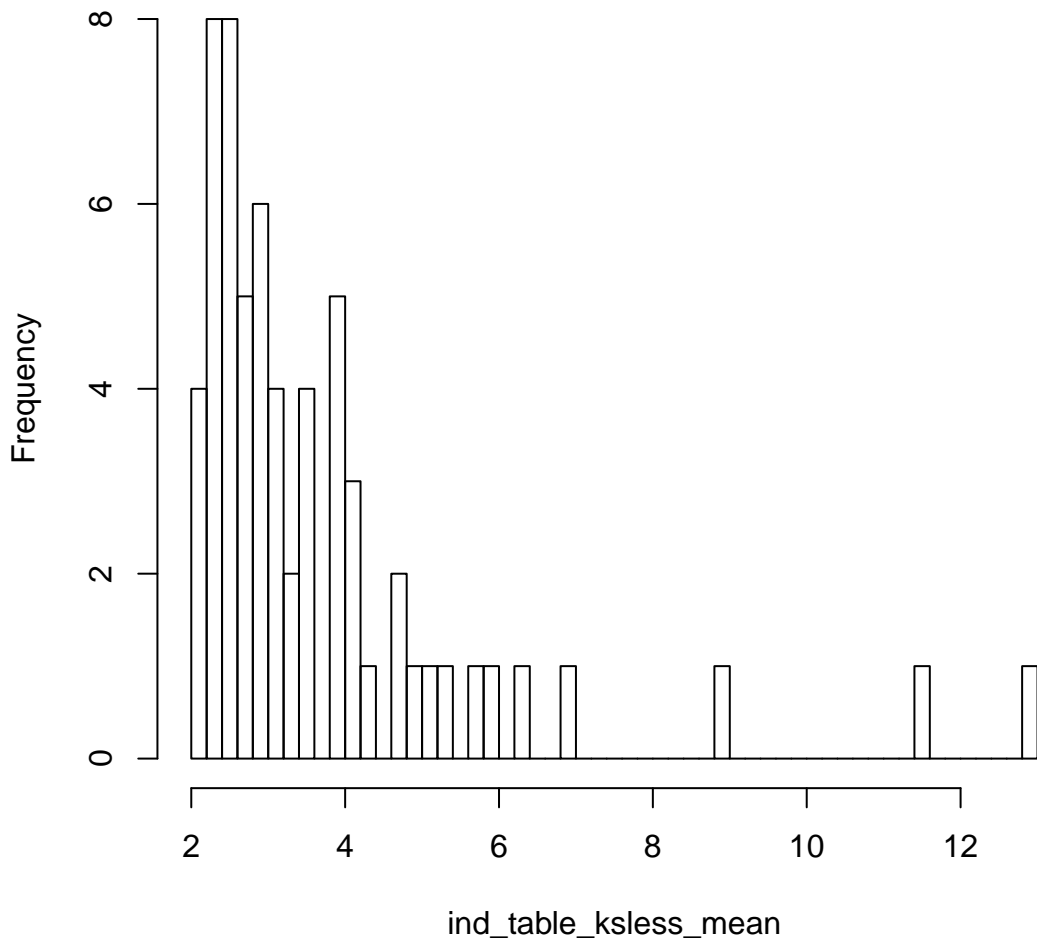
genes  $\log(\text{expression} + 1)$  with least 50 cell expression and kstwosi



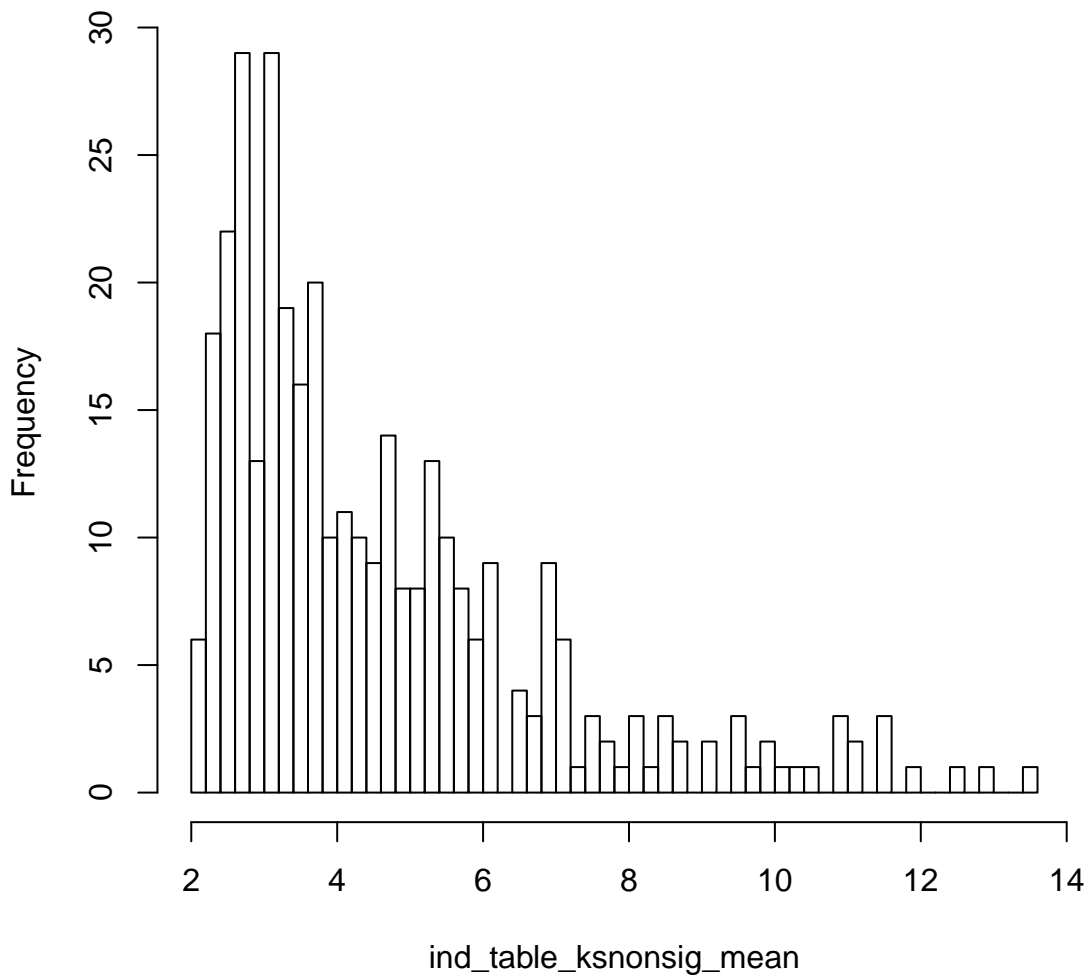
nes  $\log(\text{expression} + 1)$  with least 50 cell expression and kstwo



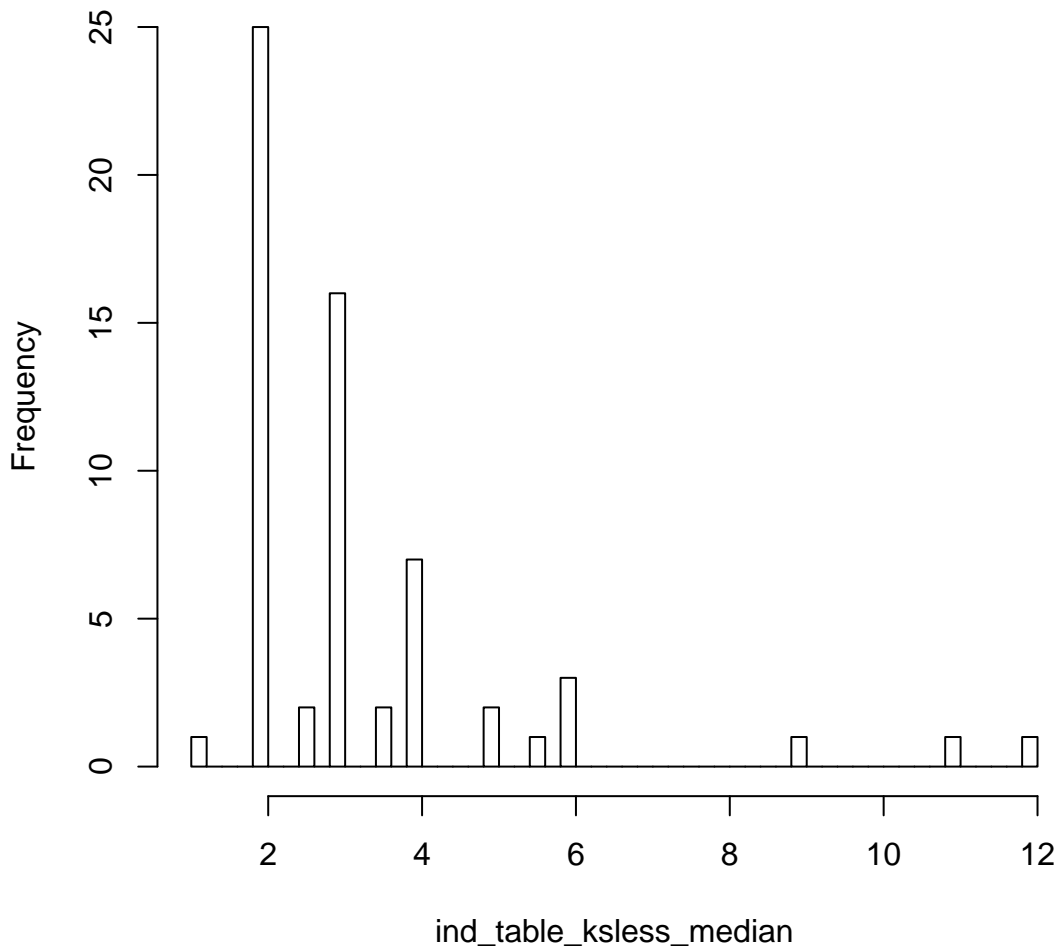
**Histogram of ind\_table\_ksless\_mean**



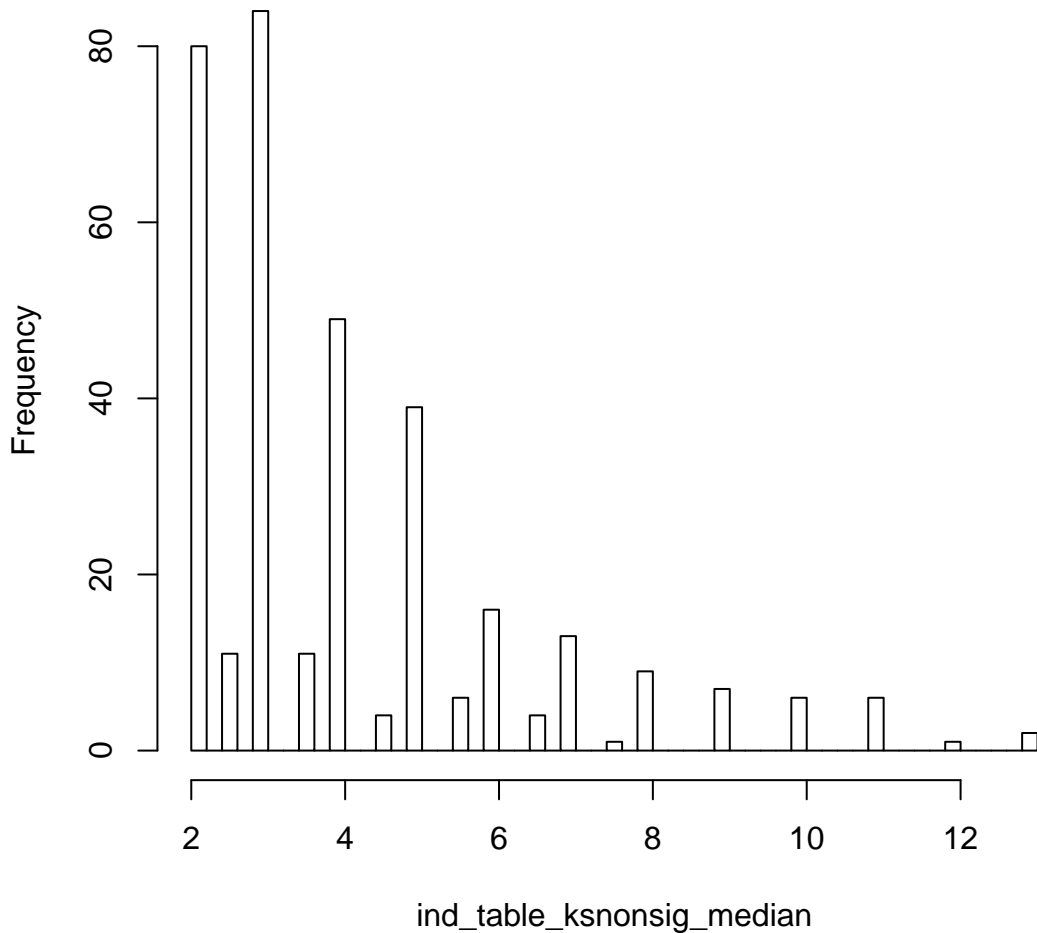
**Histogram of ind\_table\_ksnonsig\_mean**



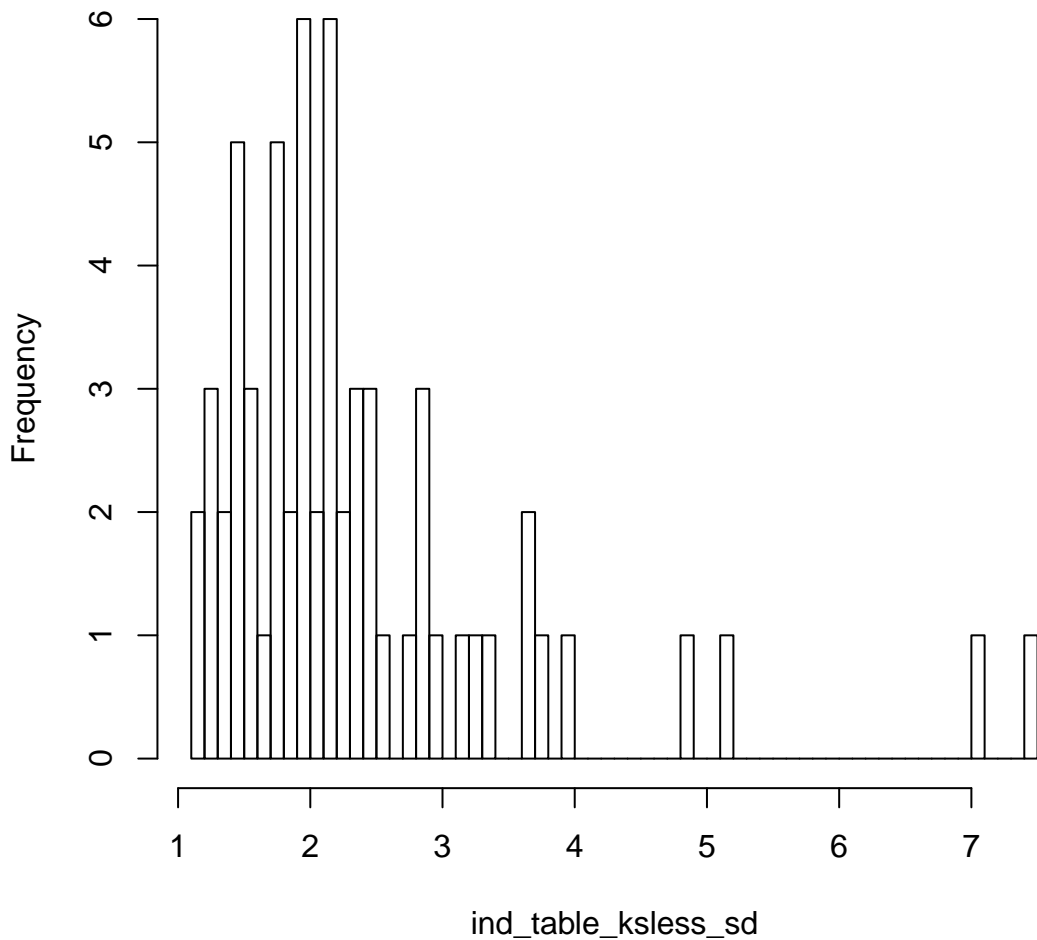
**Histogram of ind\_table\_ksless\_median**



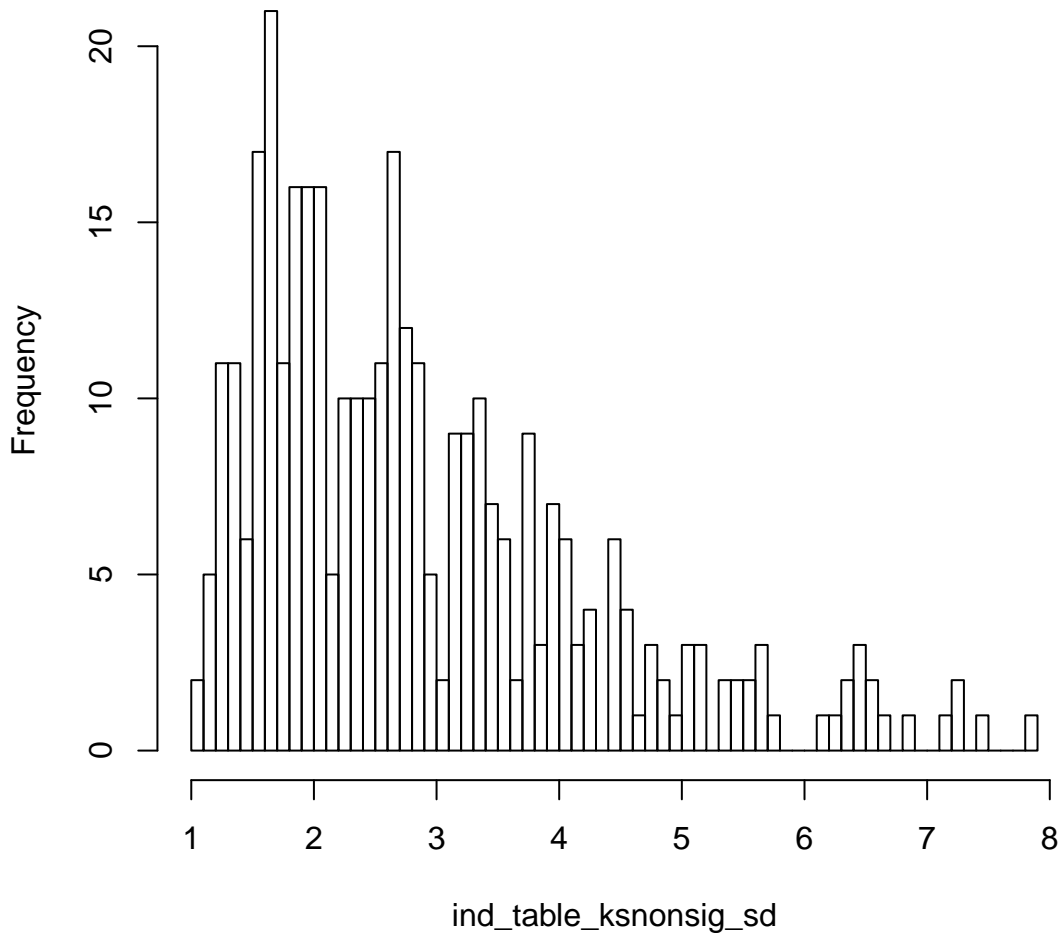
**Histogram of ind\_table\_ksnonsig\_median**



**Histogram of ind\_table\_ksless\_sd**

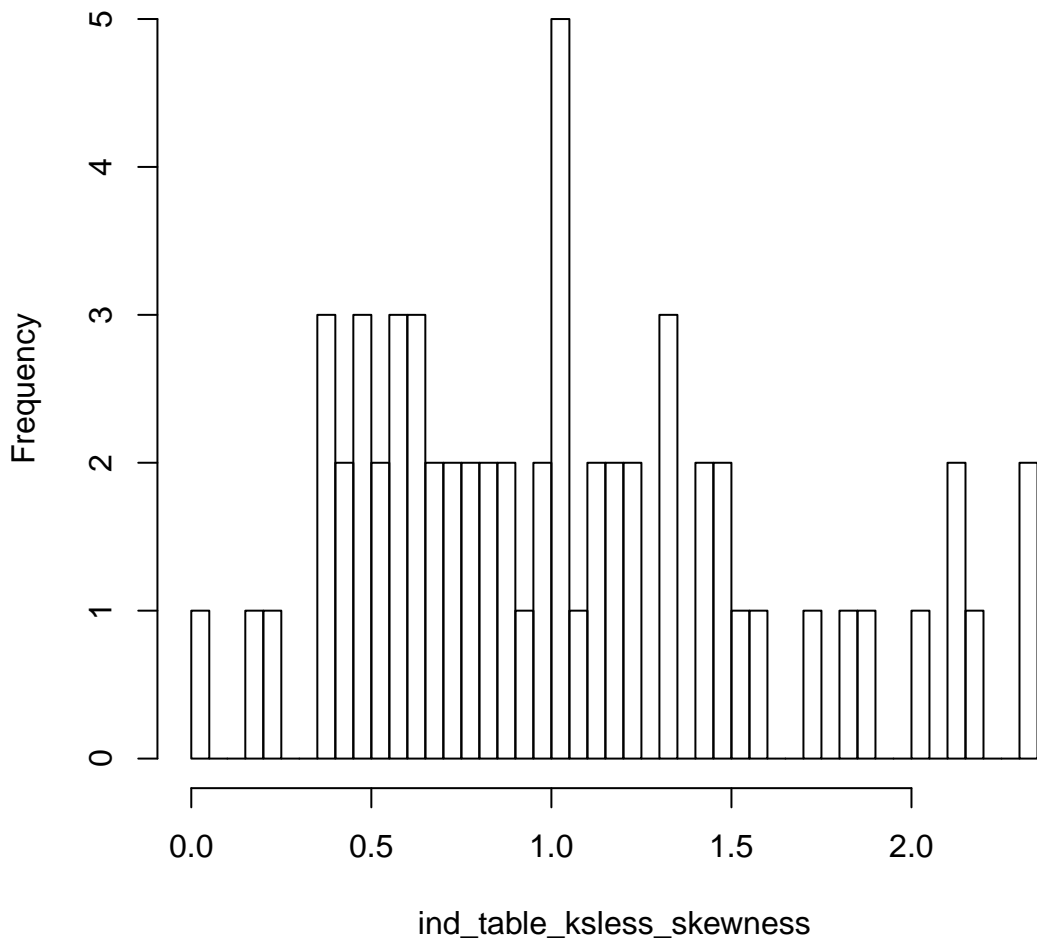


**Histogram of ind\_table\_ksnonsig\_sd**

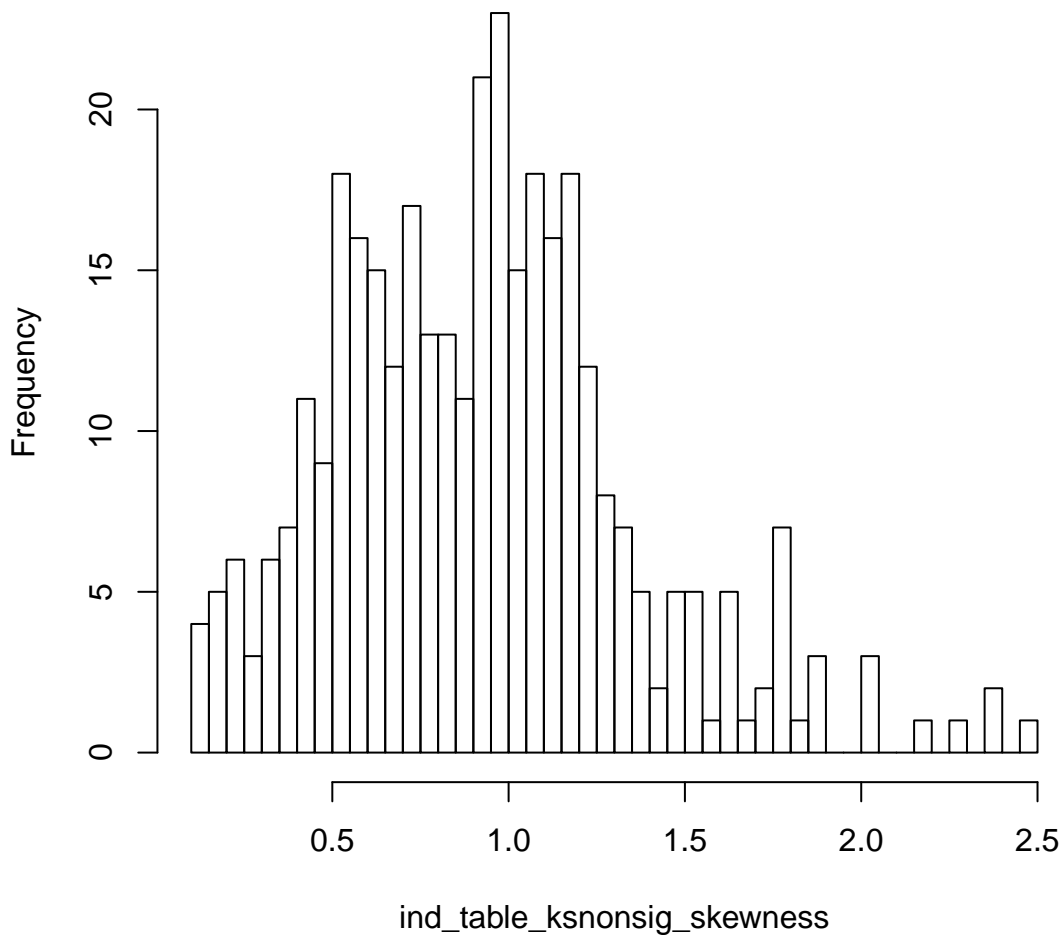




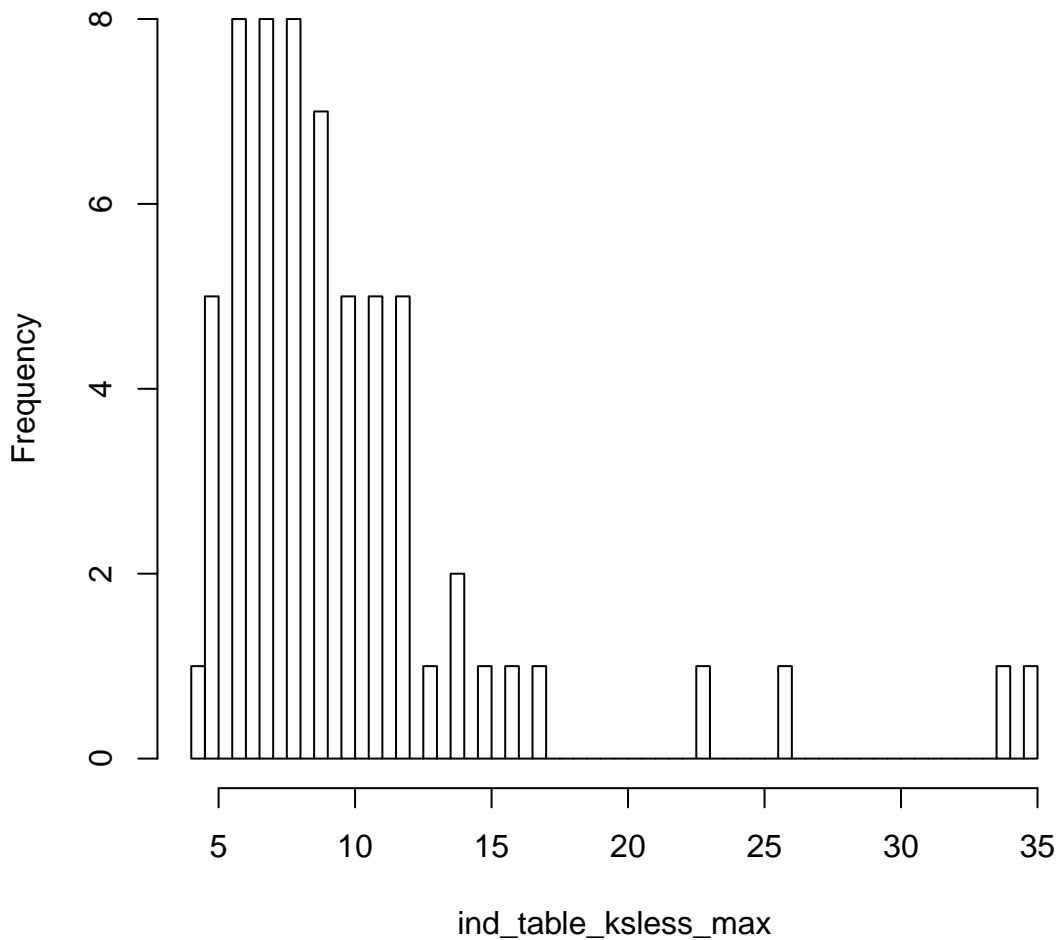
**Histogram of ind\_table\_ksless\_skewness**



**Histogram of ind\_table\_ksnonsig\_skewness**



**Histogram of ind\_table\_ksless\_max**



**Histogram of ind\_table\_ksnonsig\_max**

