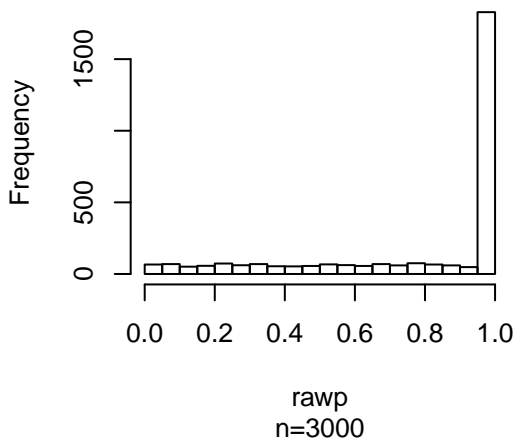
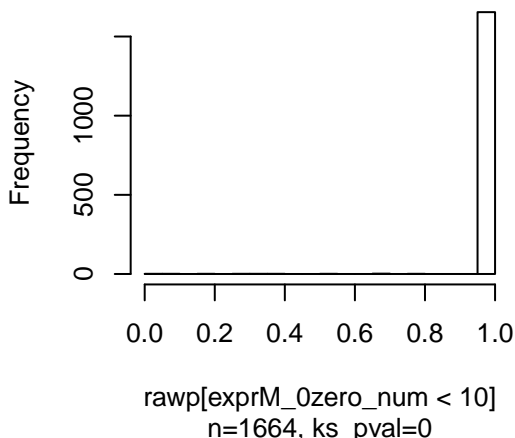


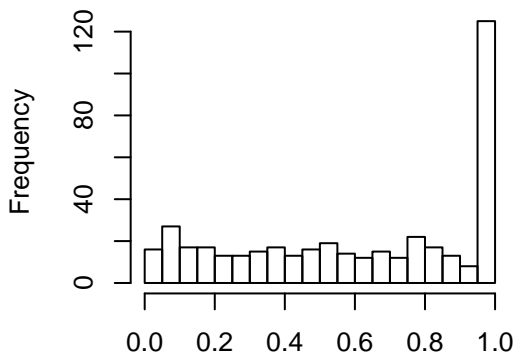
**perm pvalues**



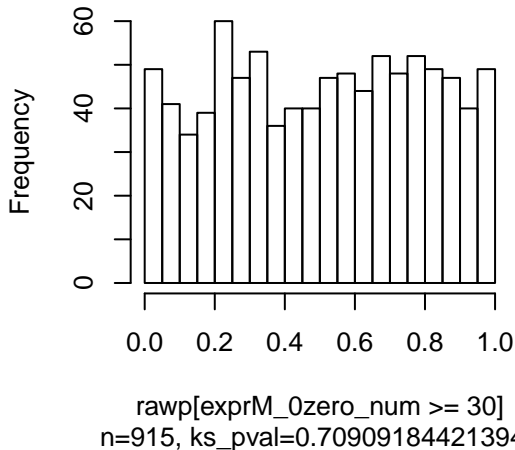
**perm pvalues,exprM\_0zero\_num<1**



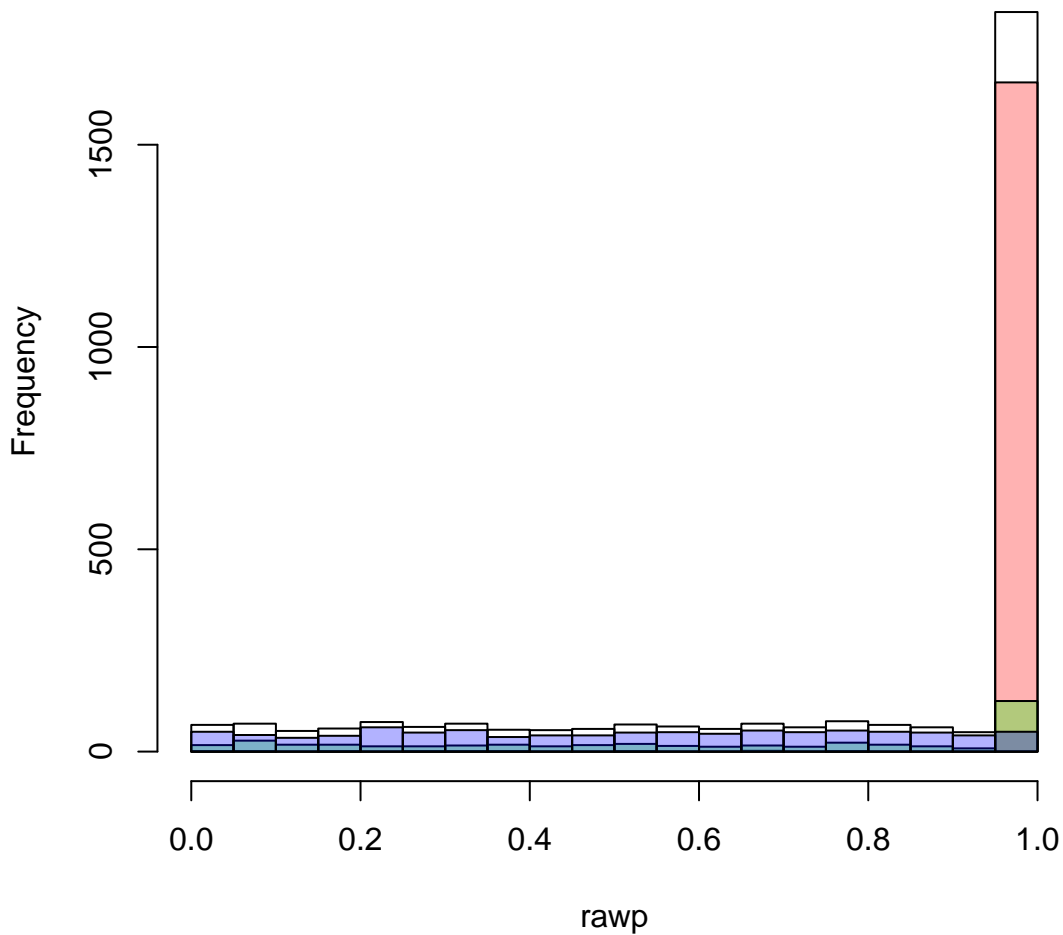
**perm pvalues,exprM\_0zero\_num 10-**



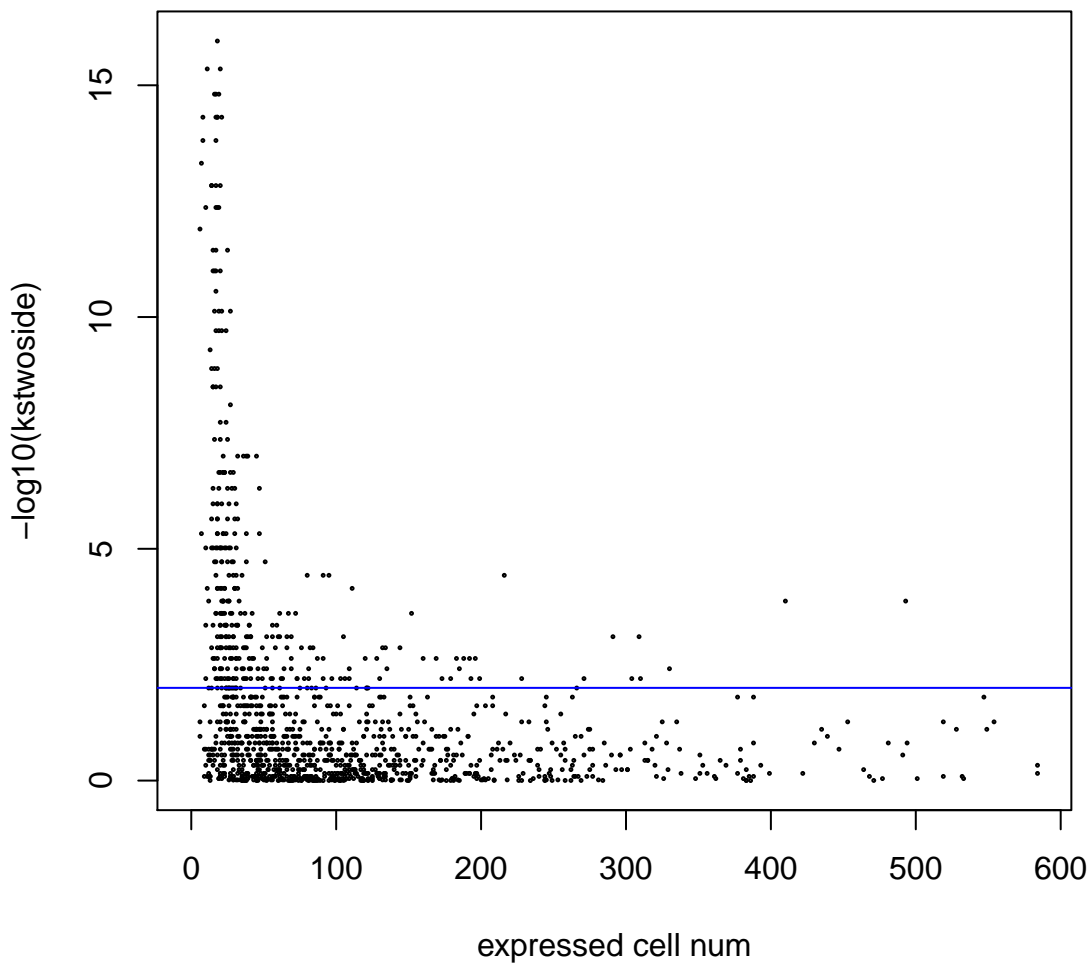
**perm pvalues,exprM\_0zero\_num>3**



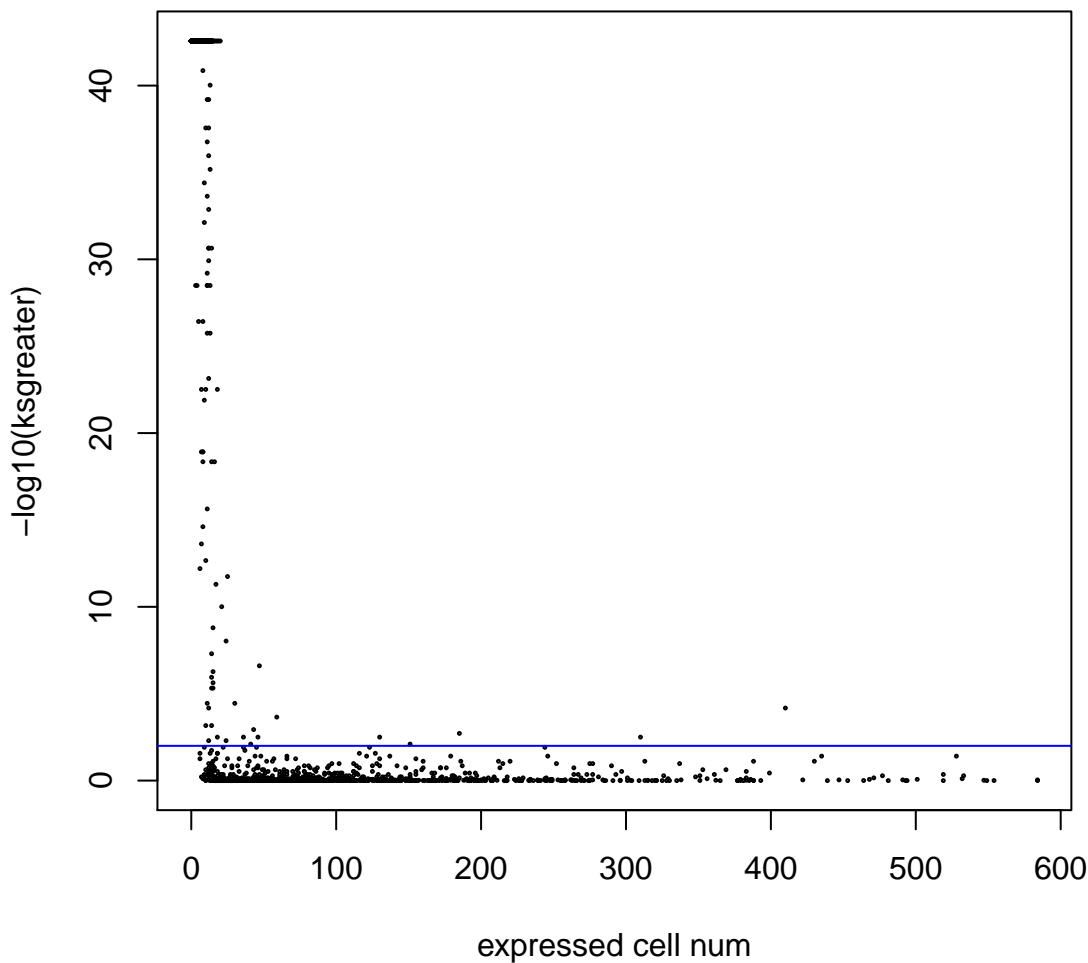
# perm pvalues



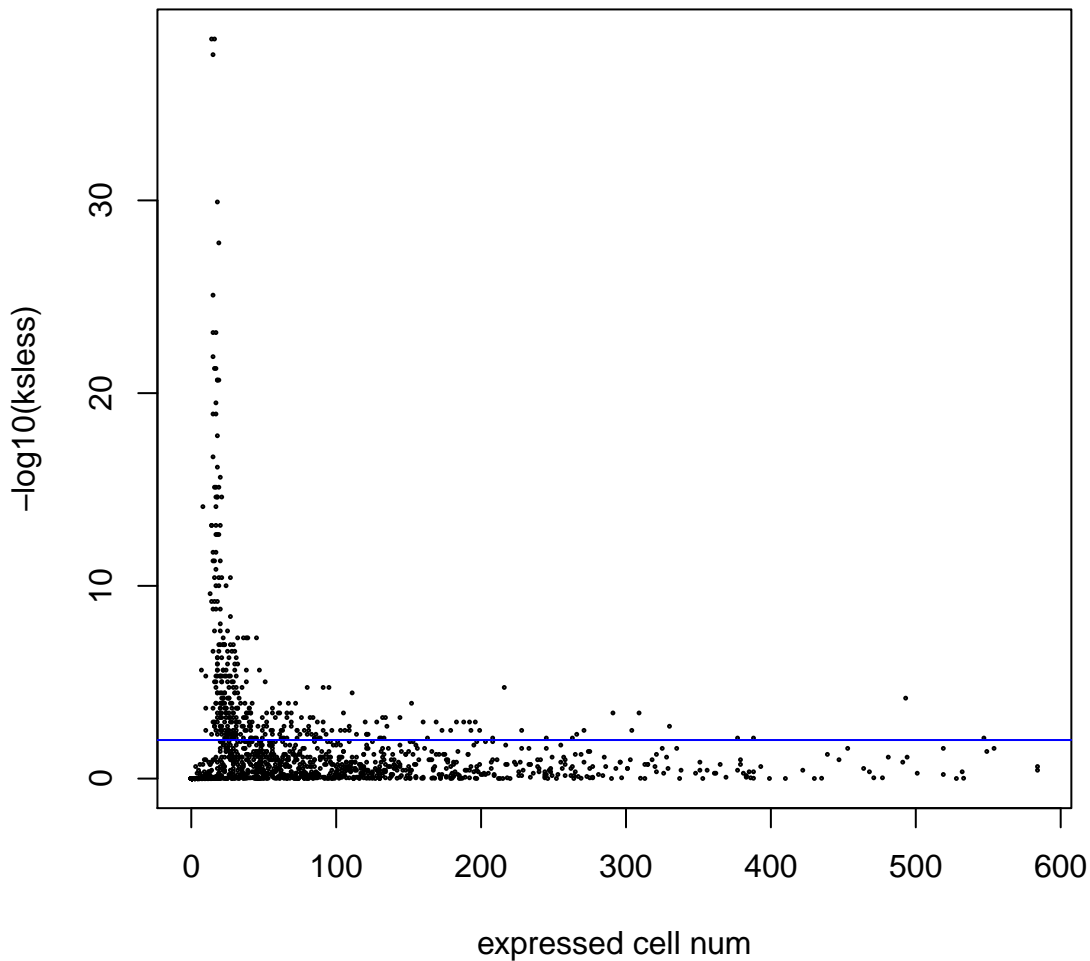
**sig\_KStwoside: 69.933%**



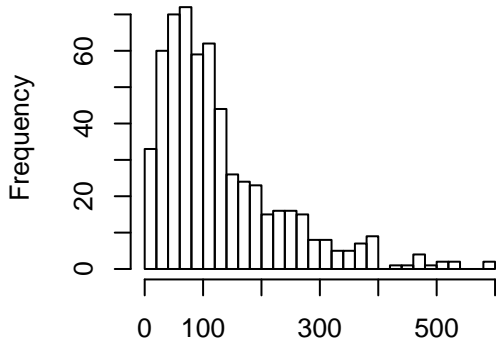
**sig\_KSgreater: 60.233%**



**sig\_KSless: 11.967%**

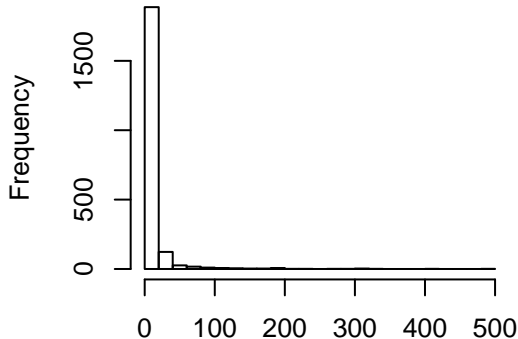


**expression cell num,kstwoside>0.1**



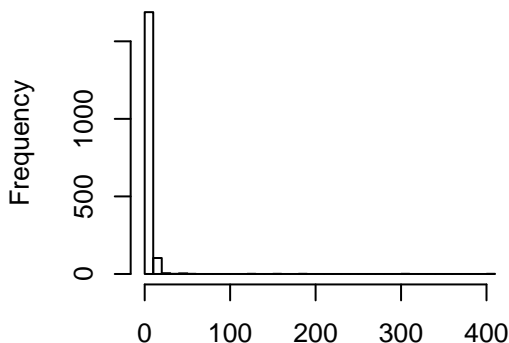
`exprM_0zero_num[kstwoside > 0.2]`

**expression cell num,kstwoside<0.01**



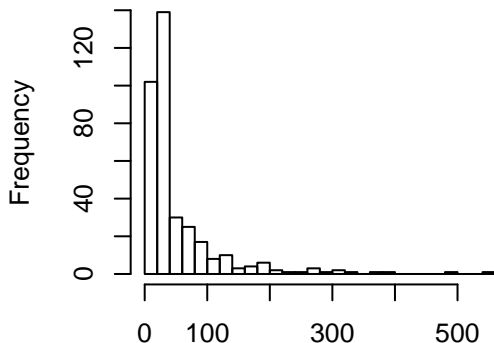
`exprM_0zero_num[kstwoside < 0.01]`

**expression cell num,ksgreater<0.0**



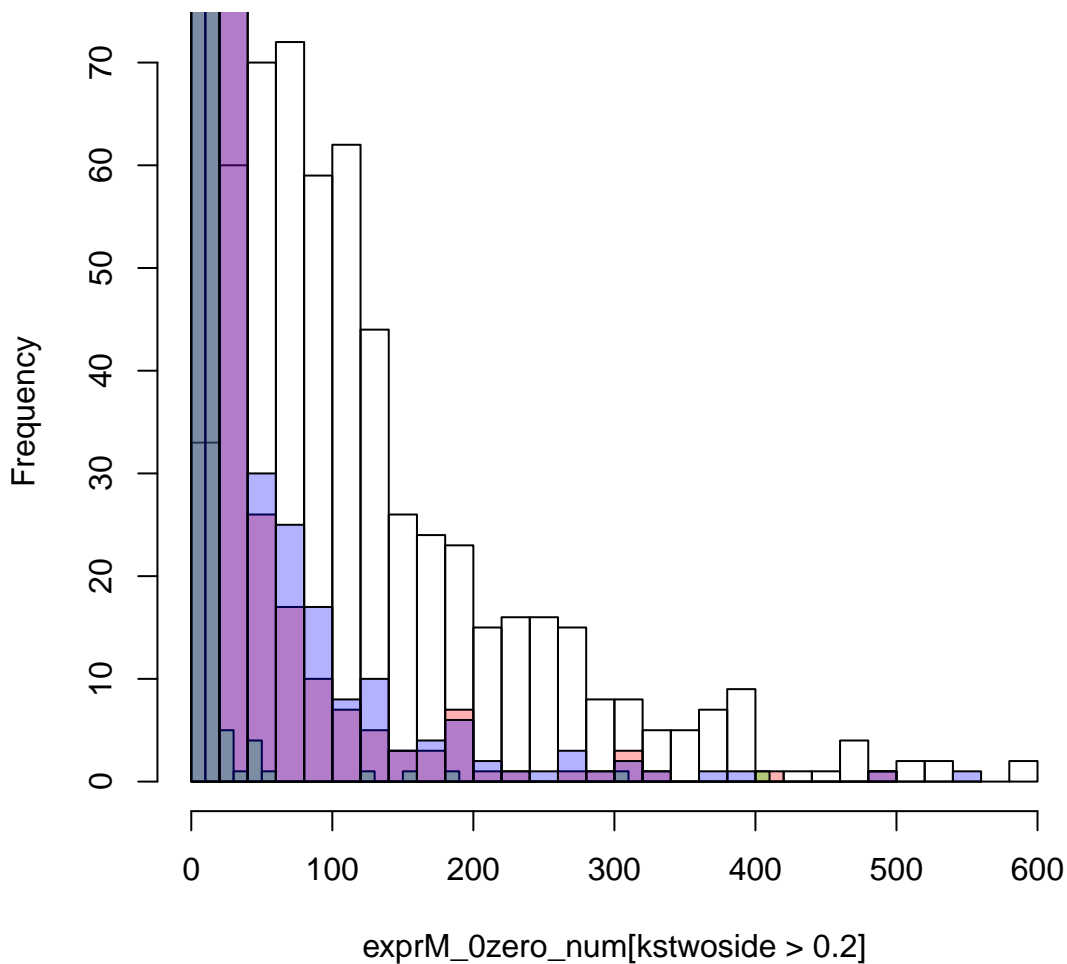
`exprM_0zero_num[ksgreater < 0.01]`

**expression cell num,ksless<0.01**

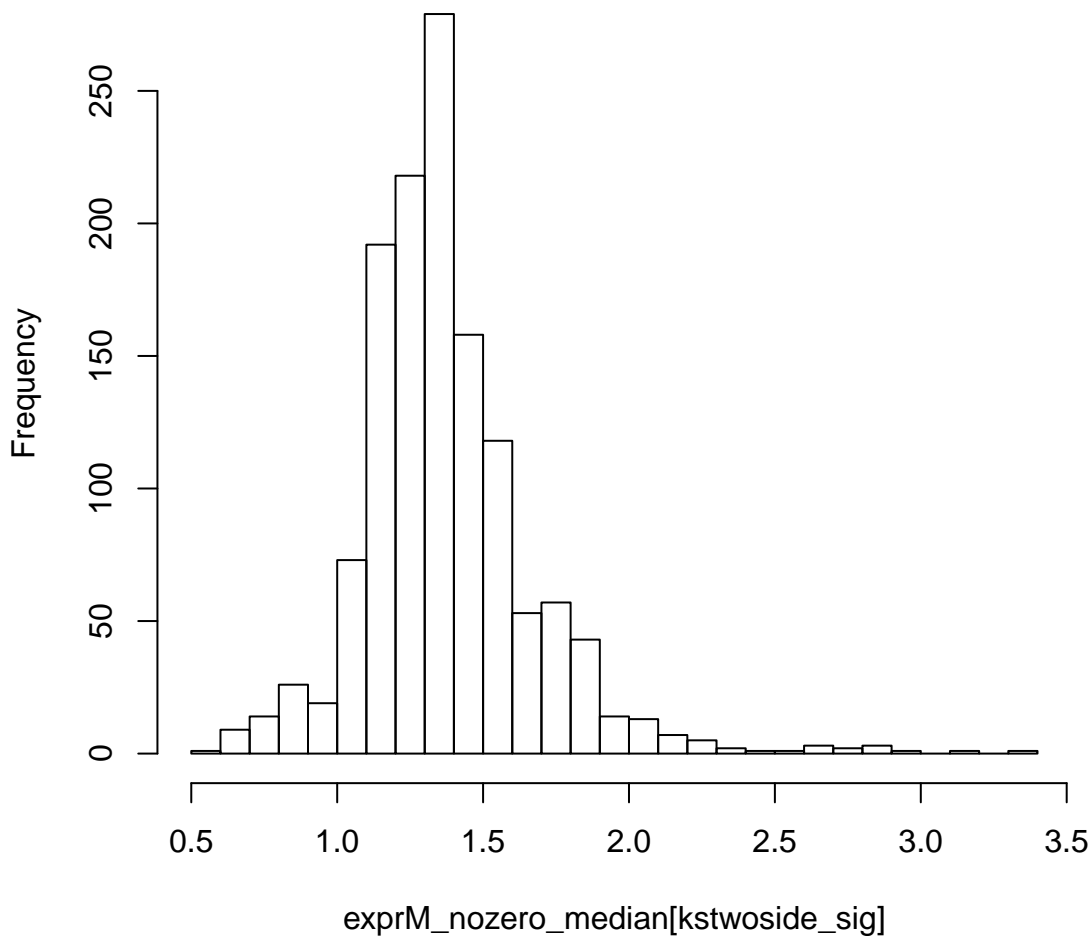


`exprM_0zero_num[ksless < 0.01]`

# expression cell num

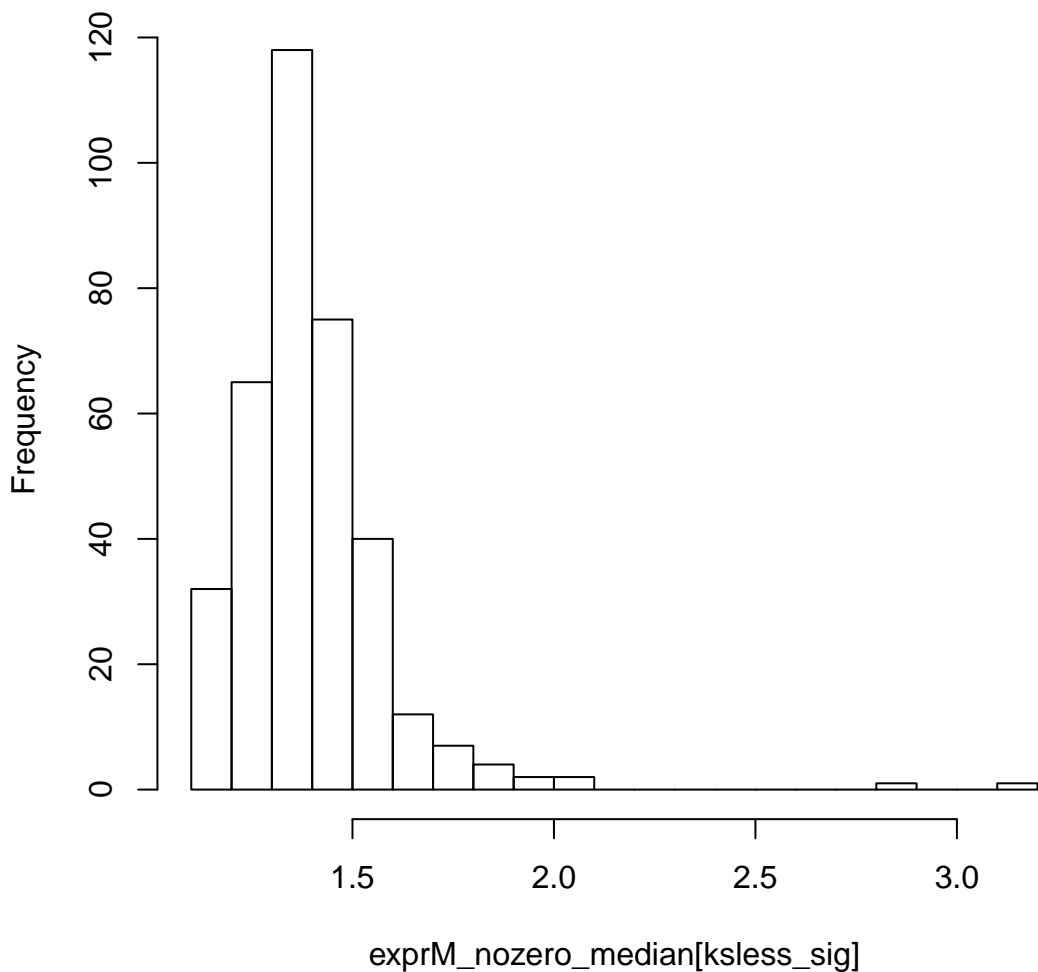


# median of nozero log-express of genes, kstwo side sig

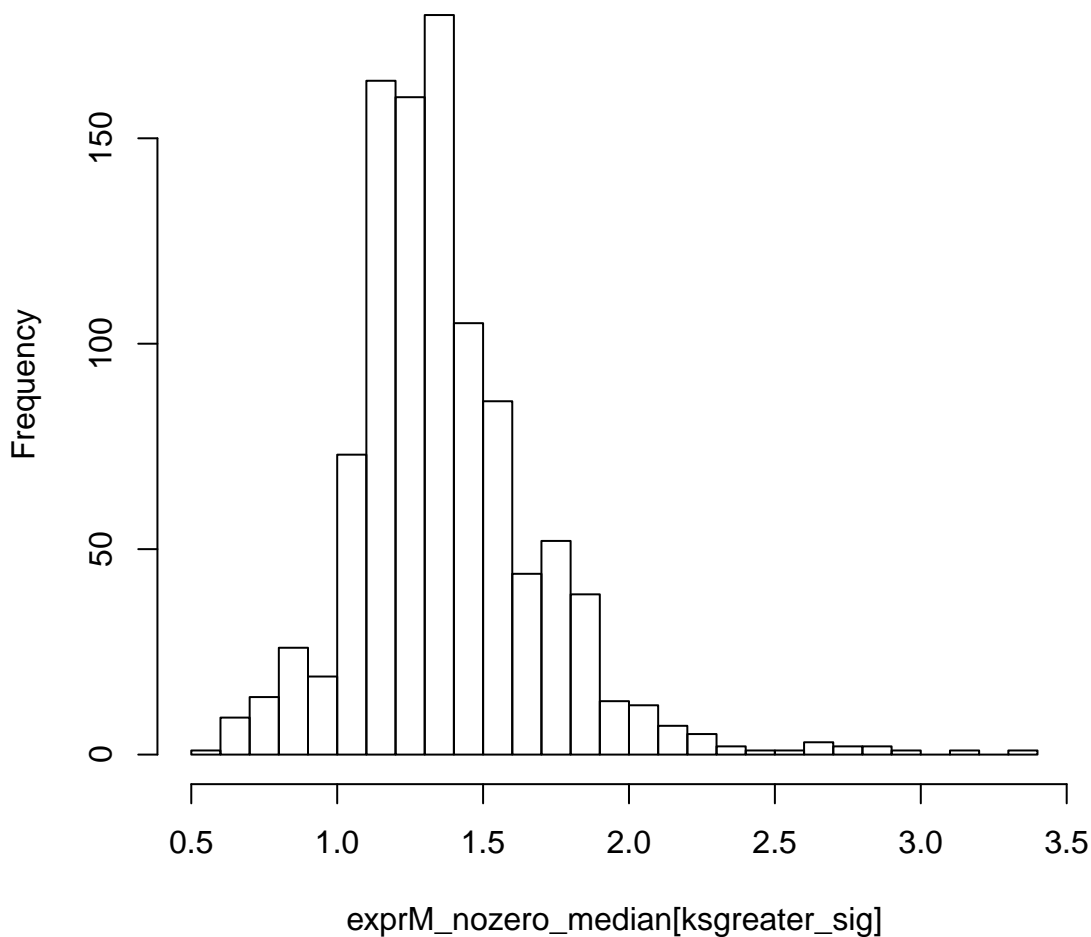




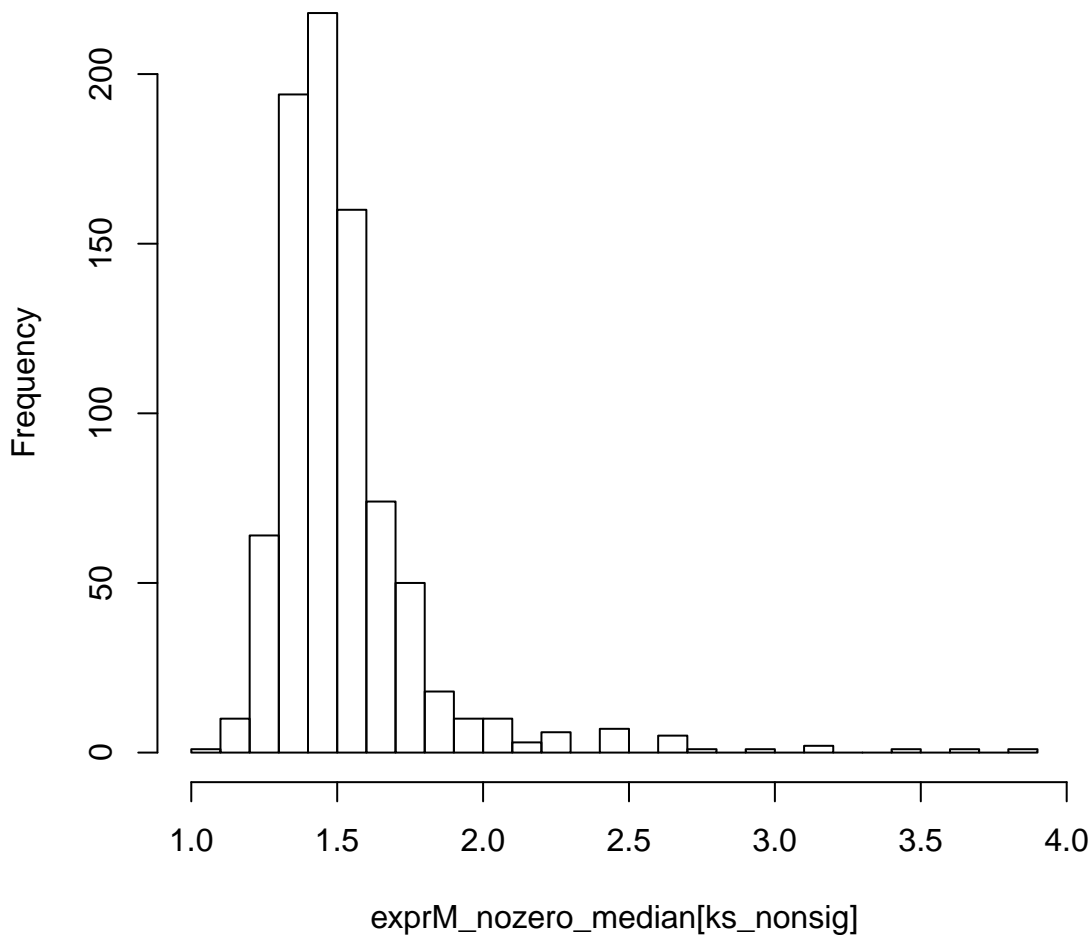
# median of nozero log-express of genes, ksless sig



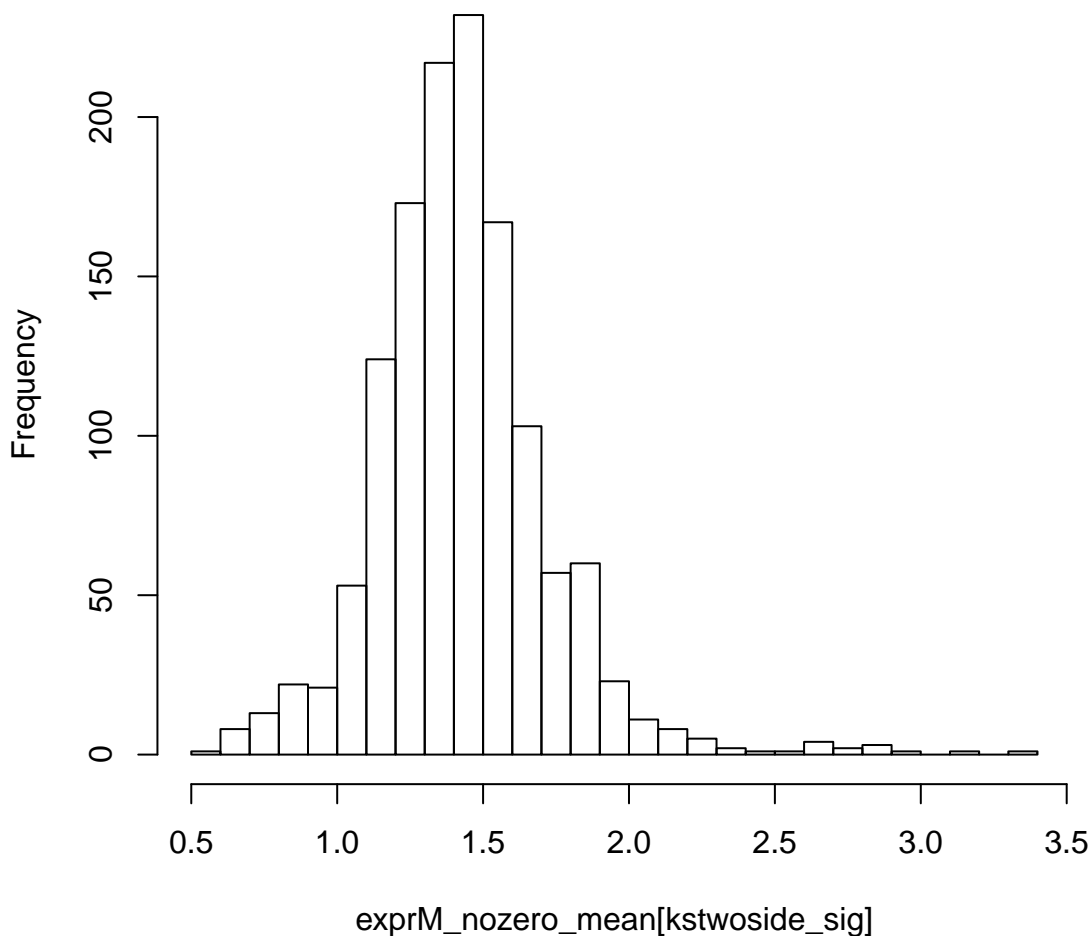
# median of nozero log-express of genes,ksgreater sig



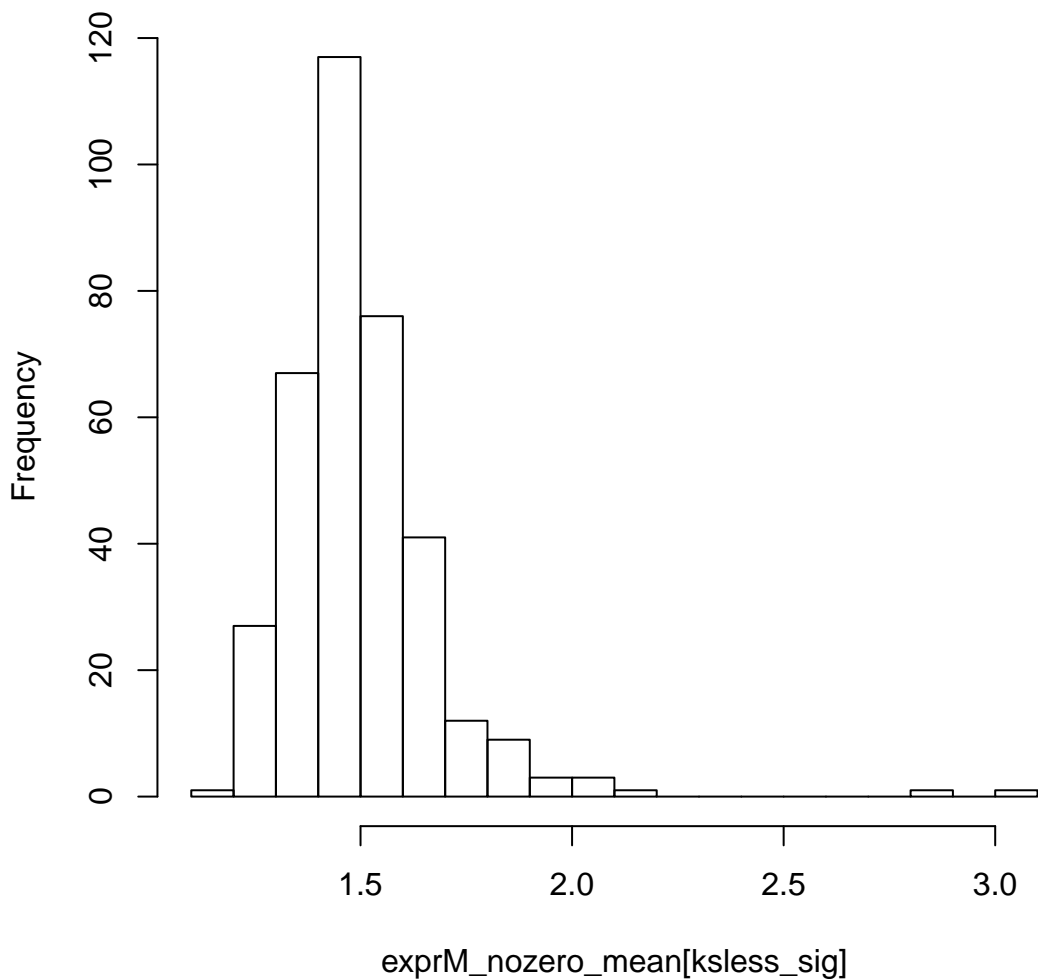
# median of nozero log-express of genes,ks no sig



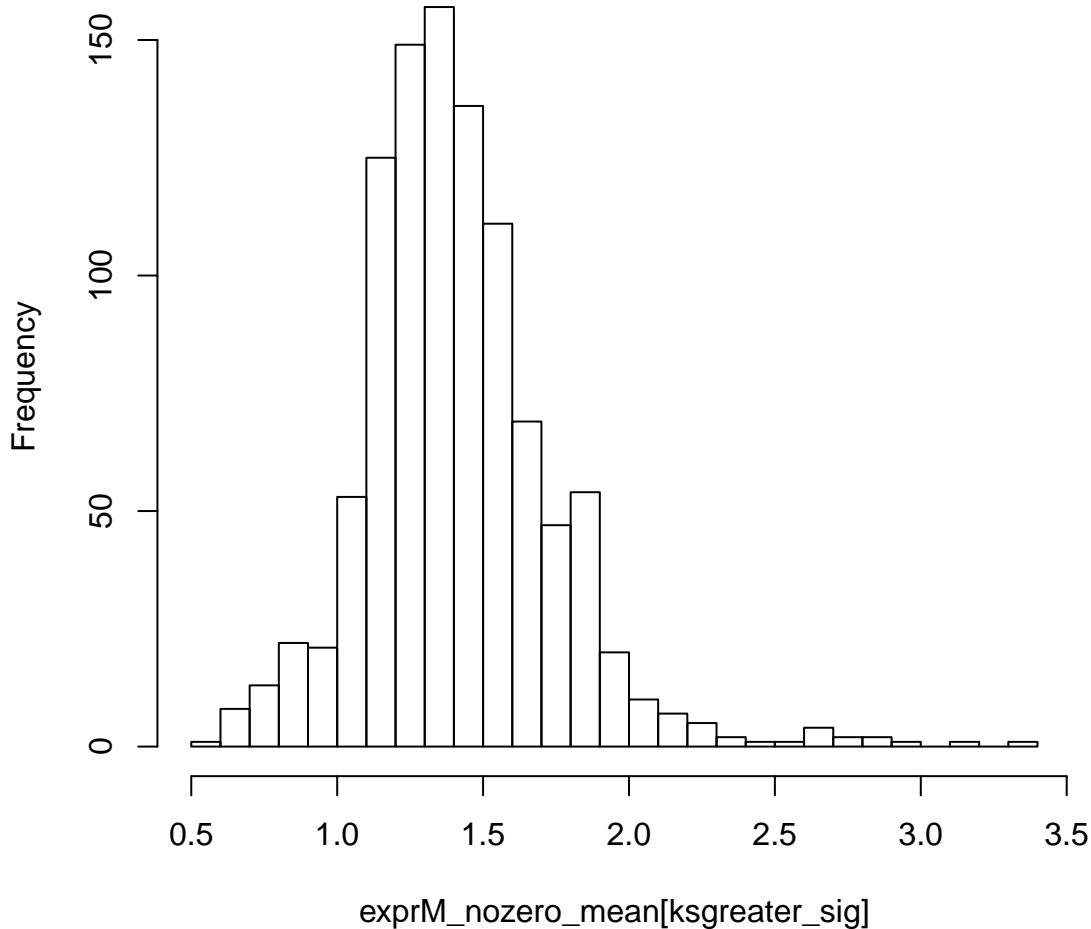
# mean of nozero log-express of genes, kstwoside sig



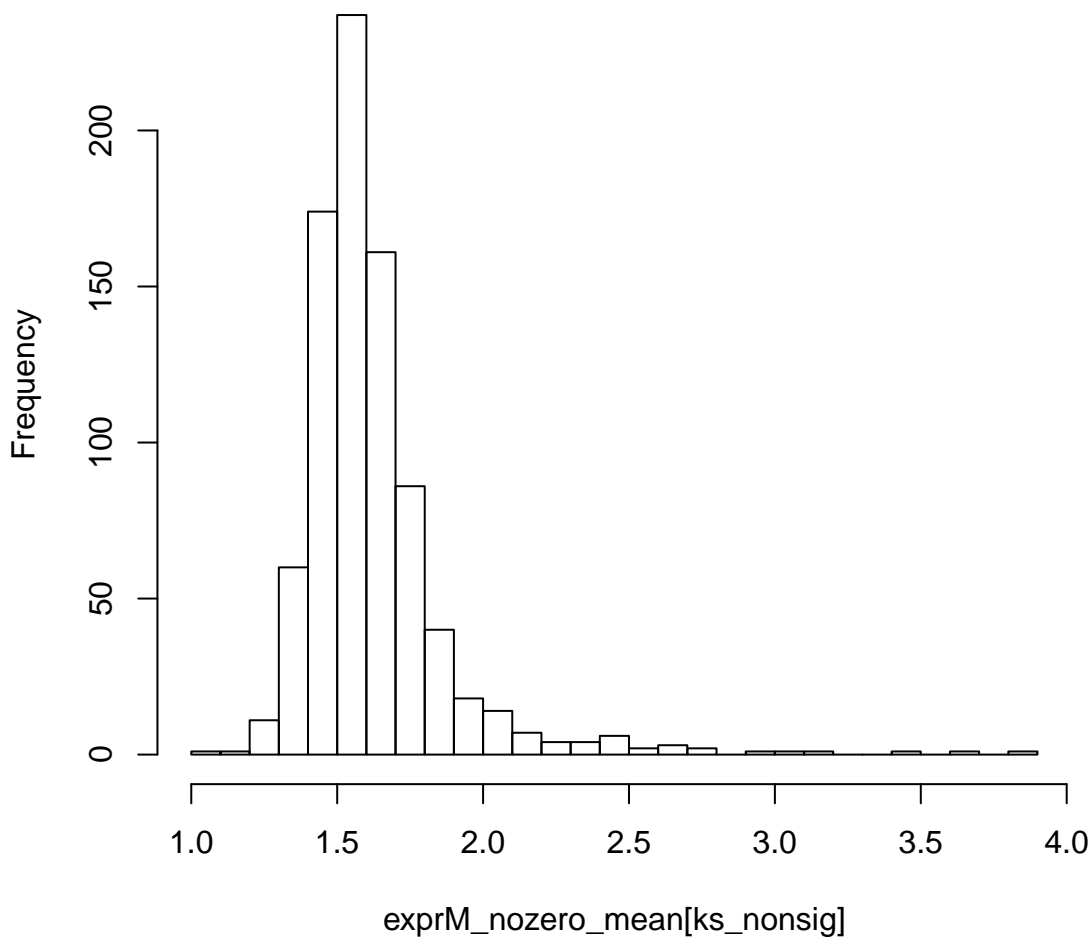
# mean of nozero log-express of genes, ksless sig



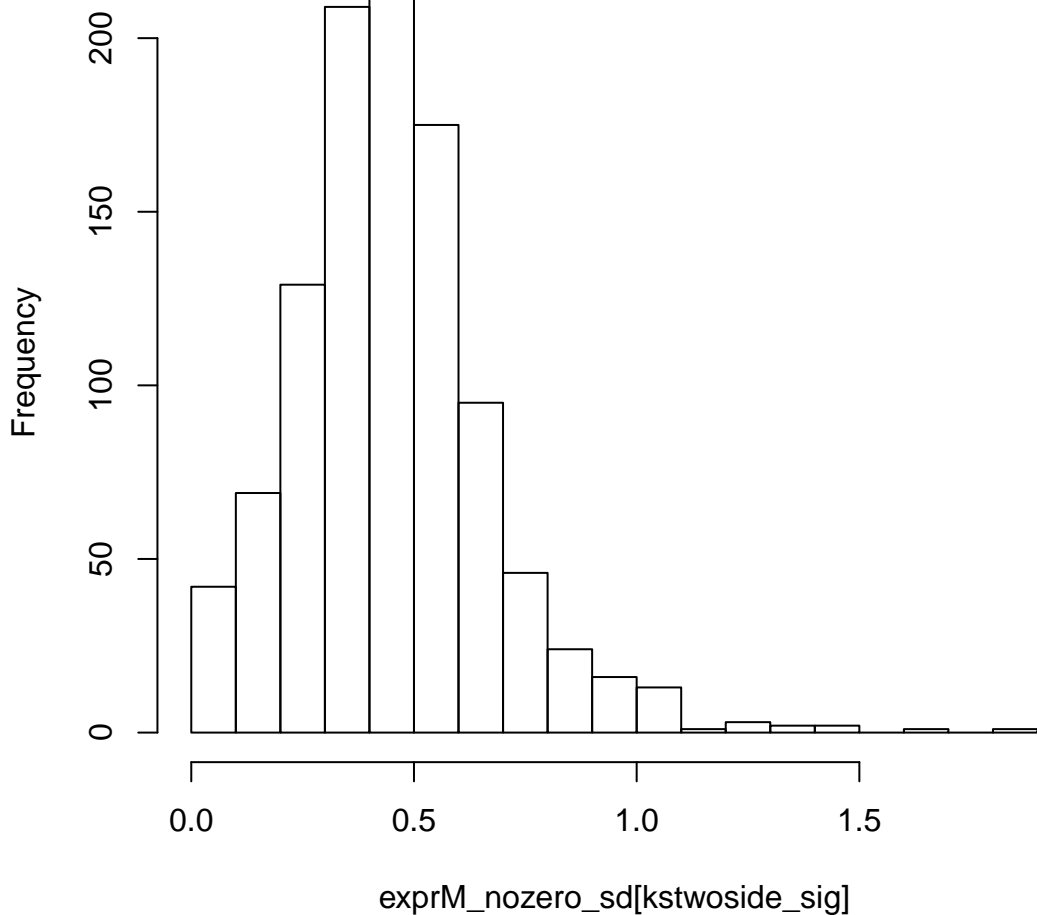
# mean of nozero log-express of genes,ksgreater sig



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

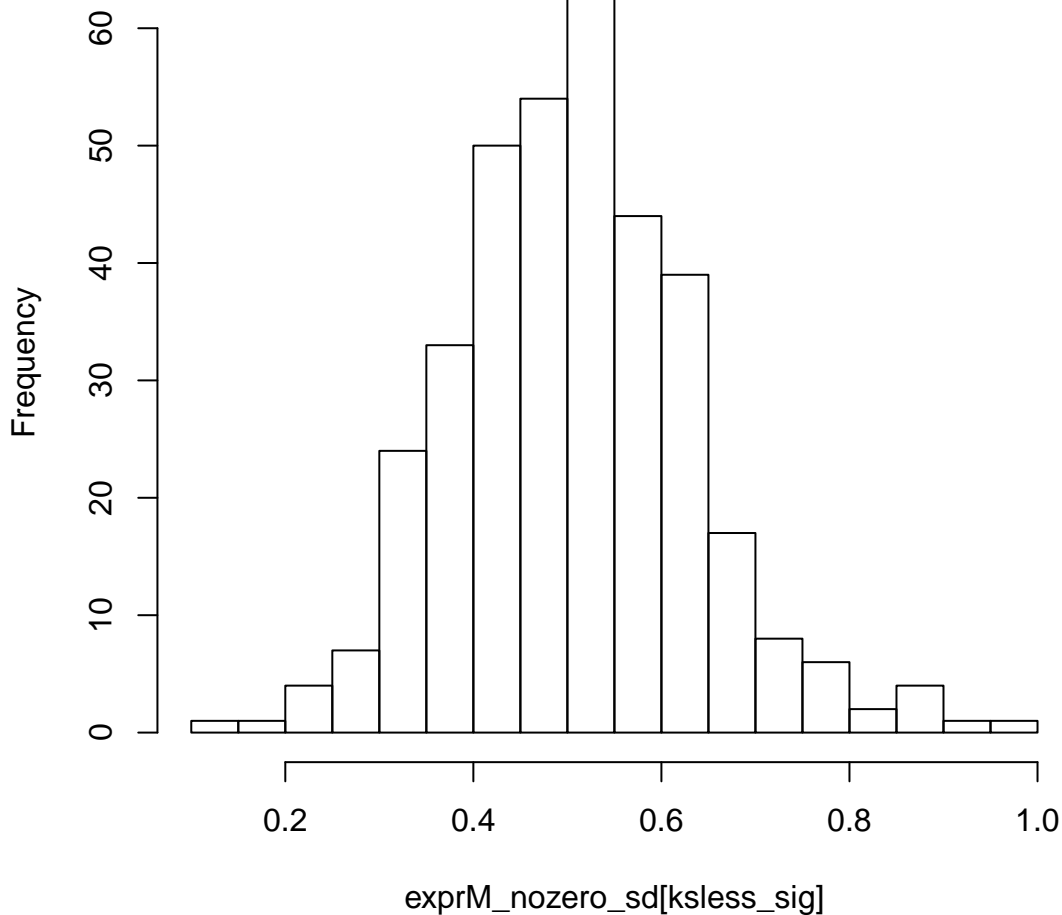


# sd of nozero log-express of genes, kstwoside sig

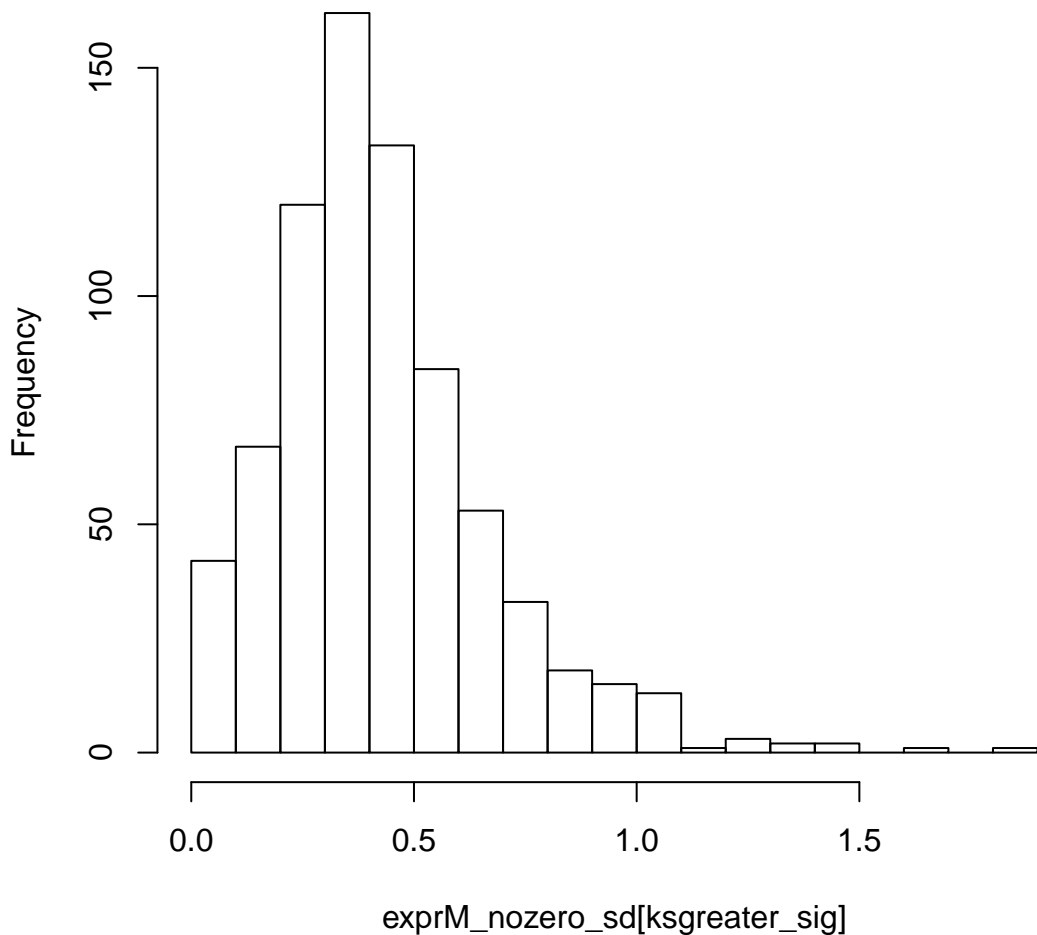




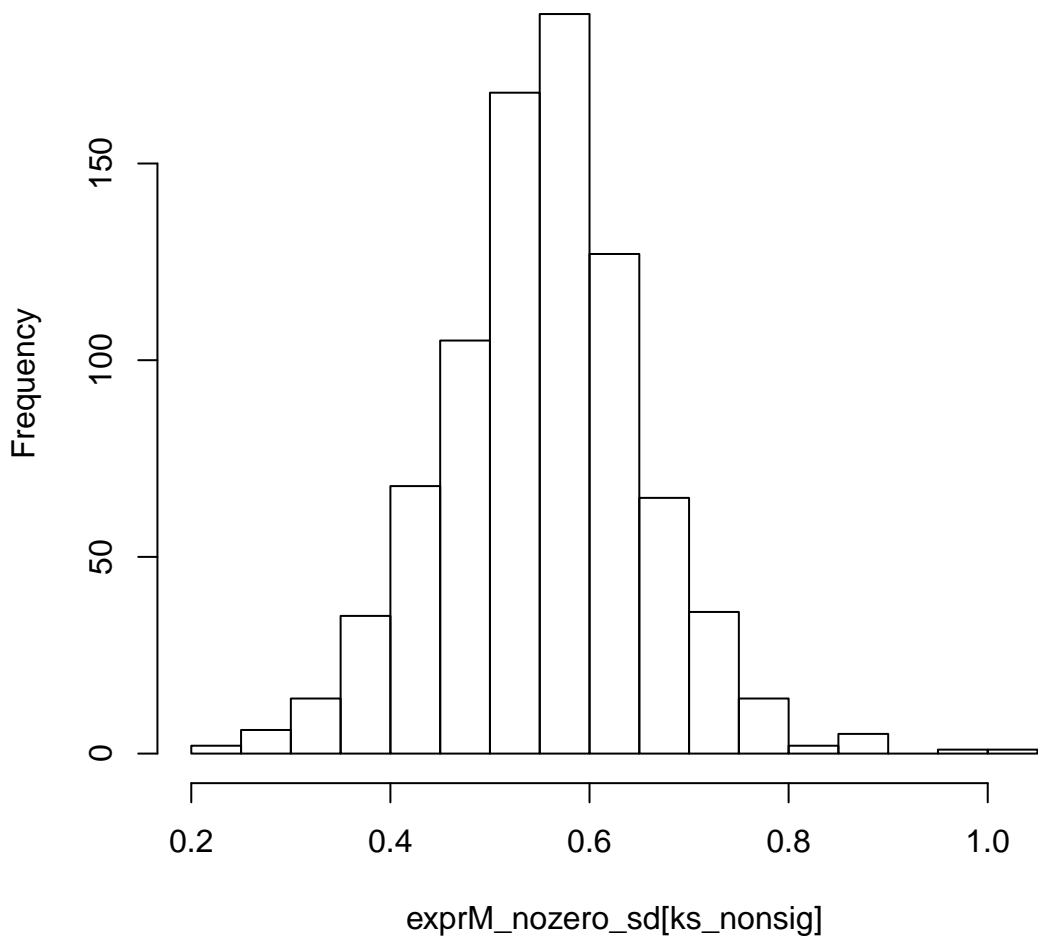
# sd of nozero log-express of genes, ksless sig



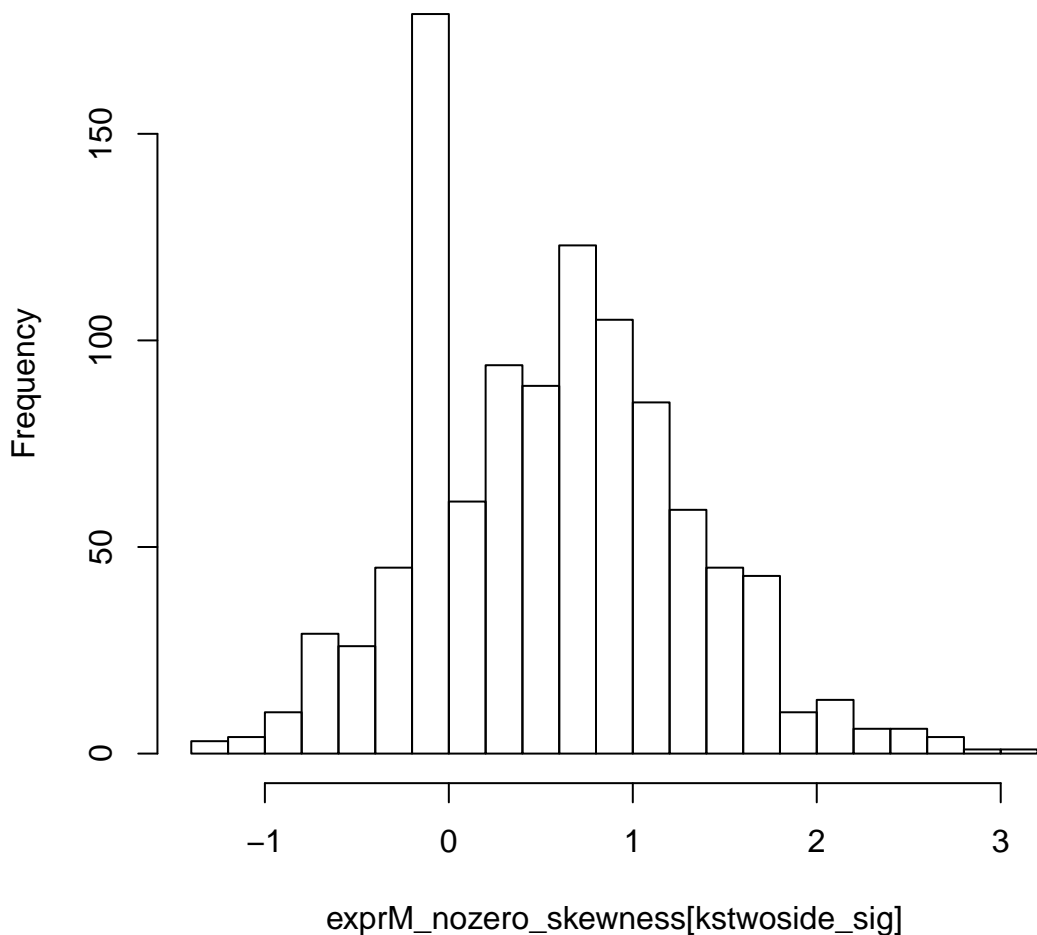
# sd of nozero log-express of genes,ksgreater sig



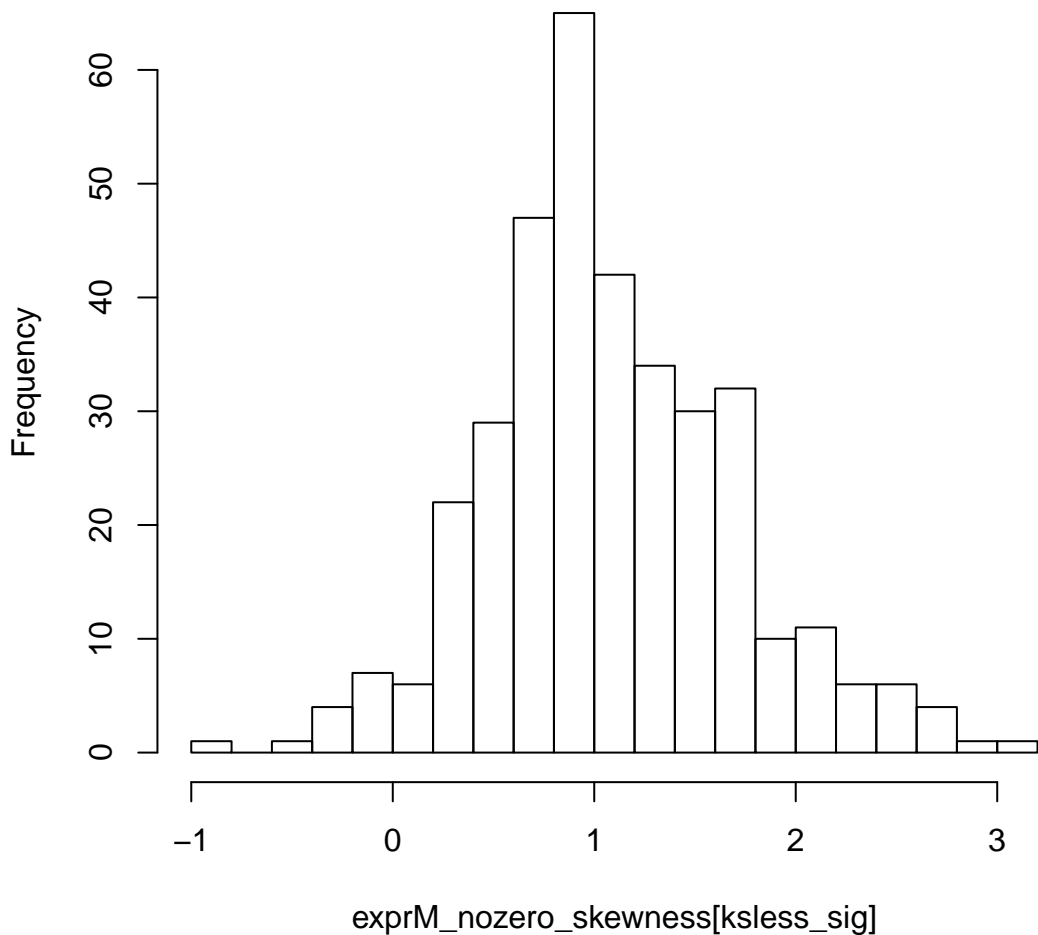
# sd of nozero log-express of genes,ks no sig



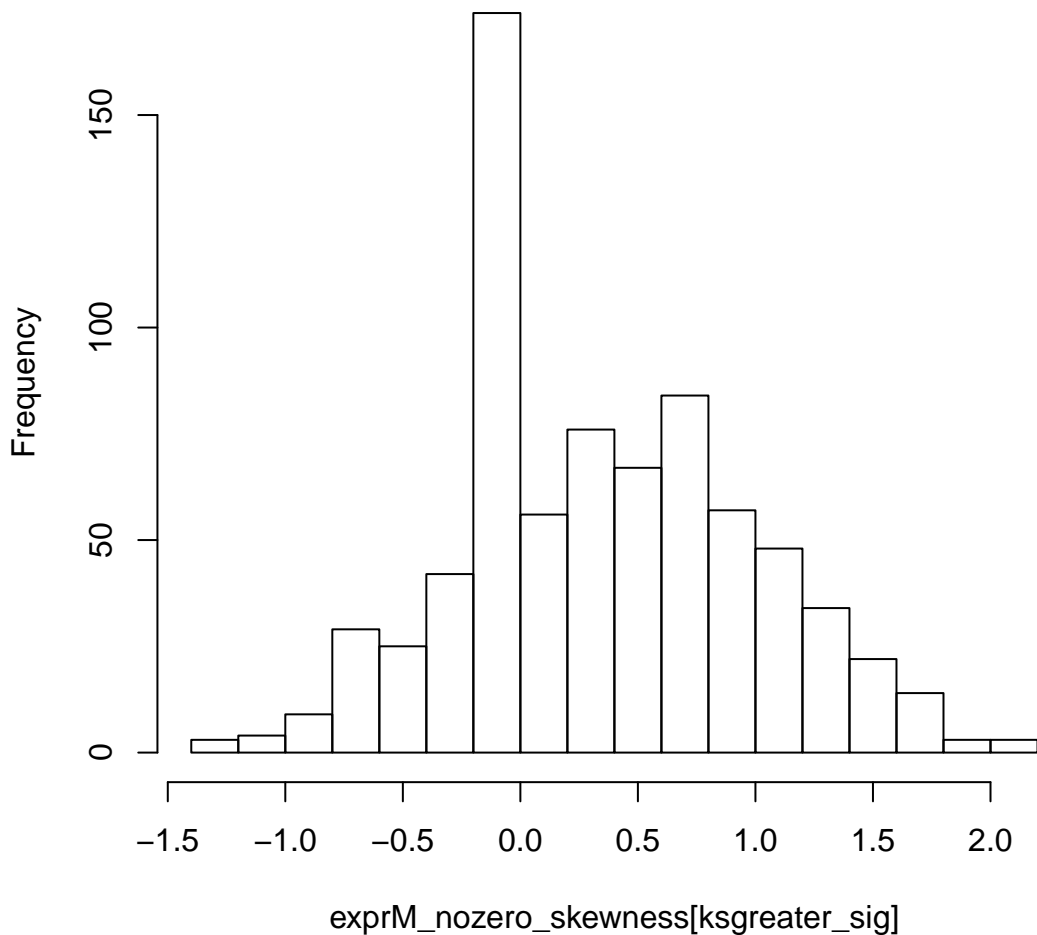
# skewness of nozero log-express of genes, kstvoside sig



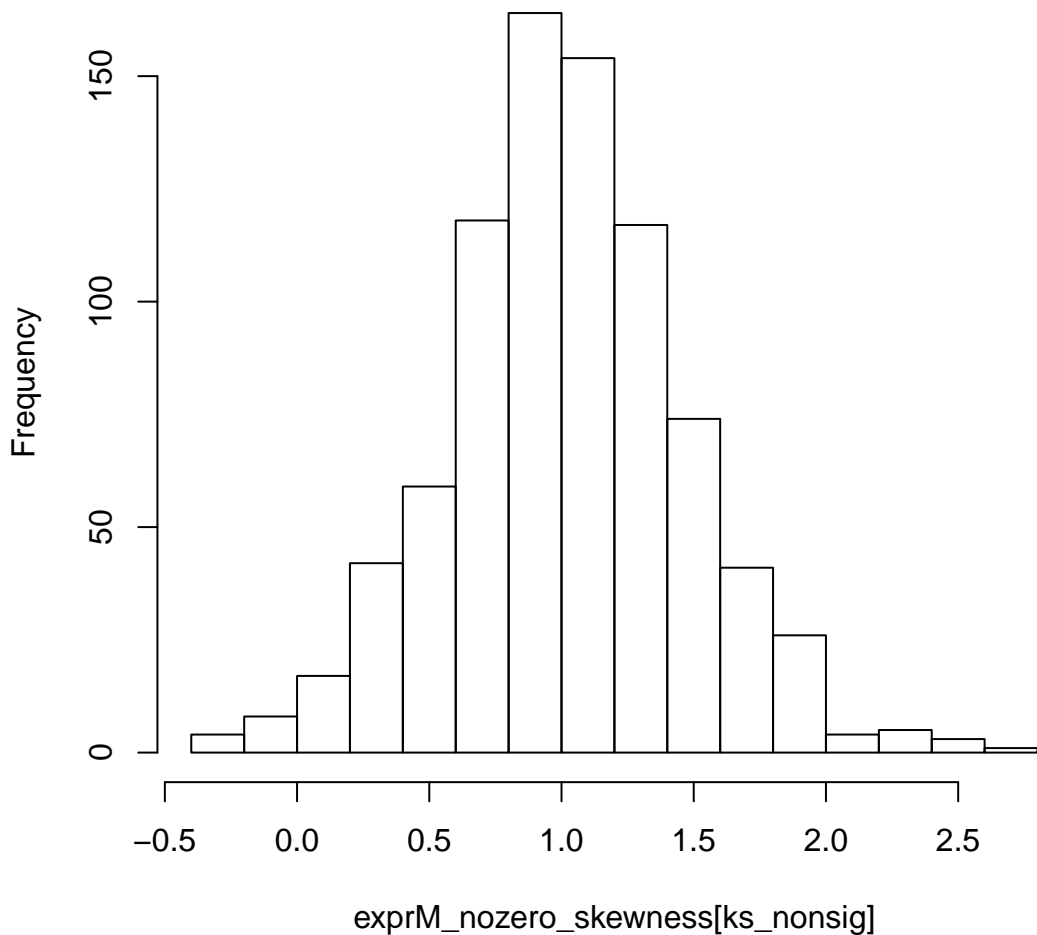
# skewness of nozero log-express of genes, ksless sig



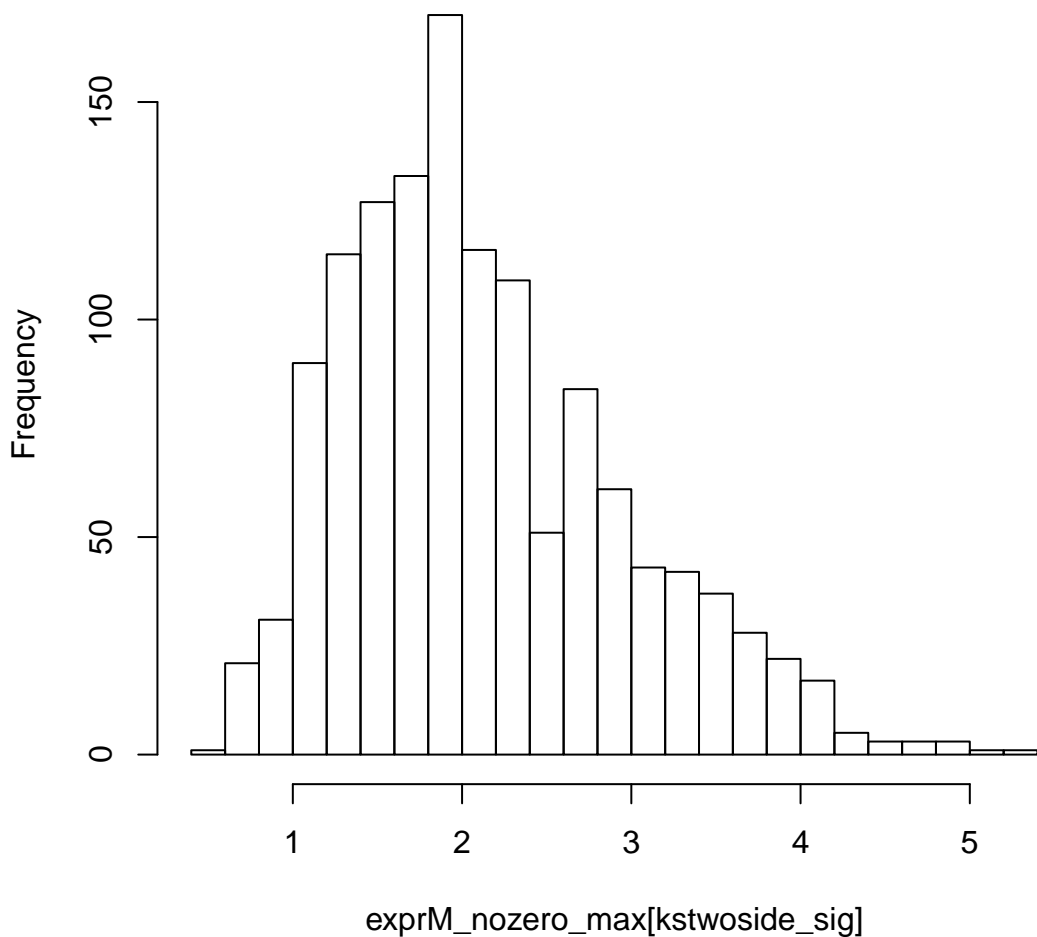
# skewness of nozero log-express of genes,ksgreater sig



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

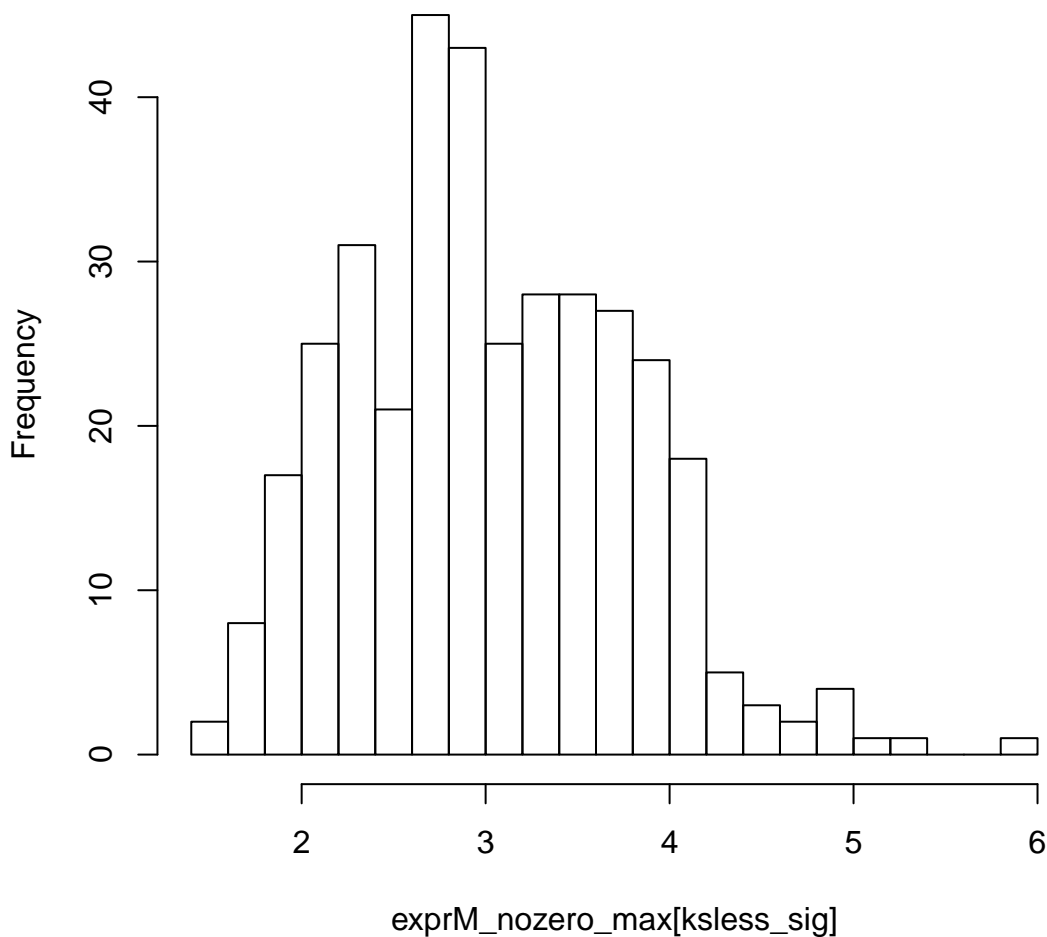


# max of nozero log-express of genes, kstwo side sig

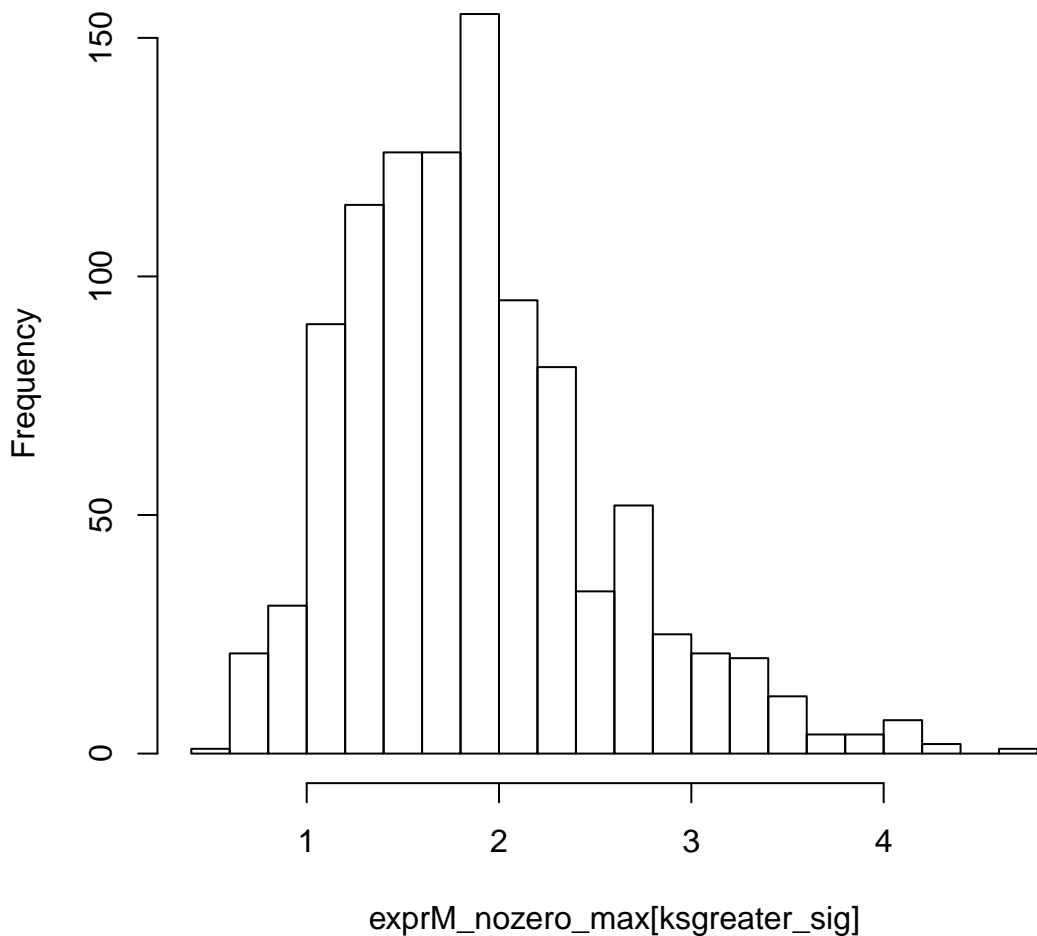




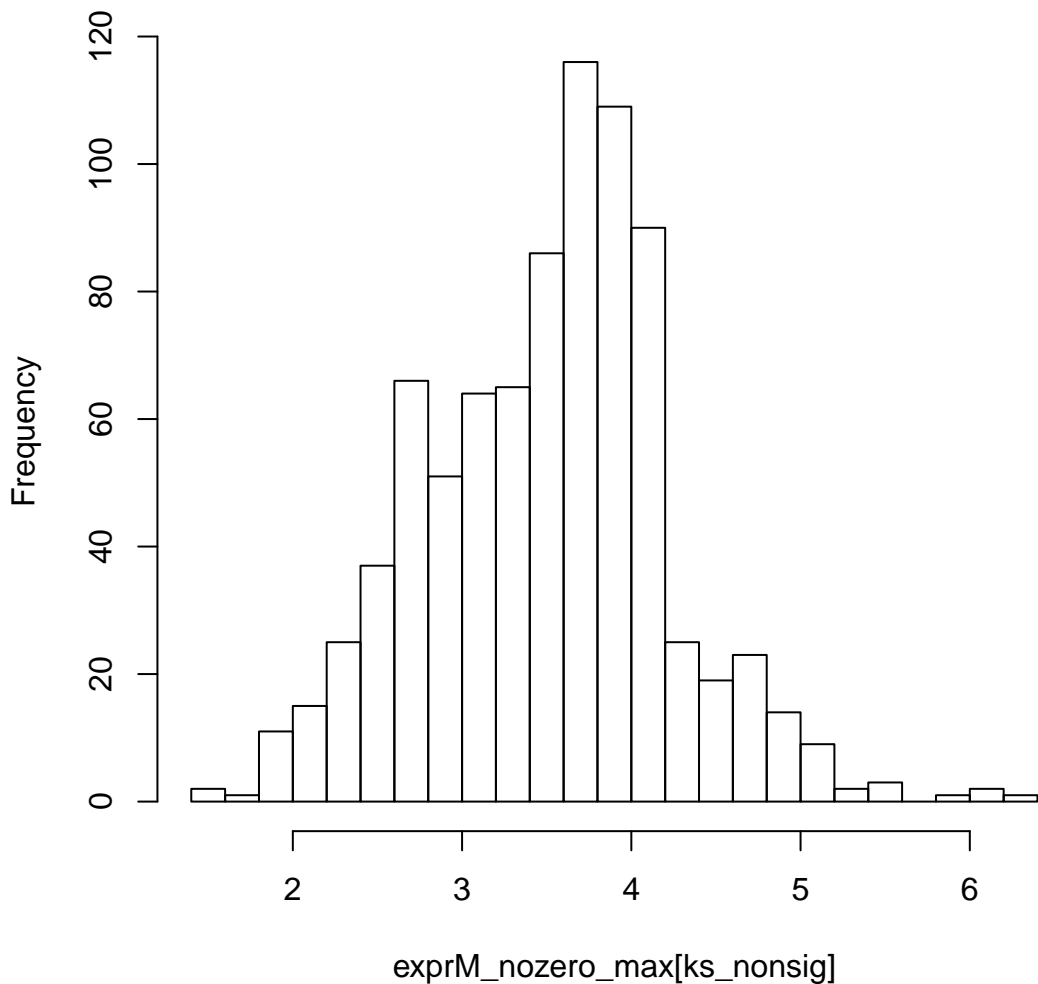
# max of nozero log-express of genes, ksless sig



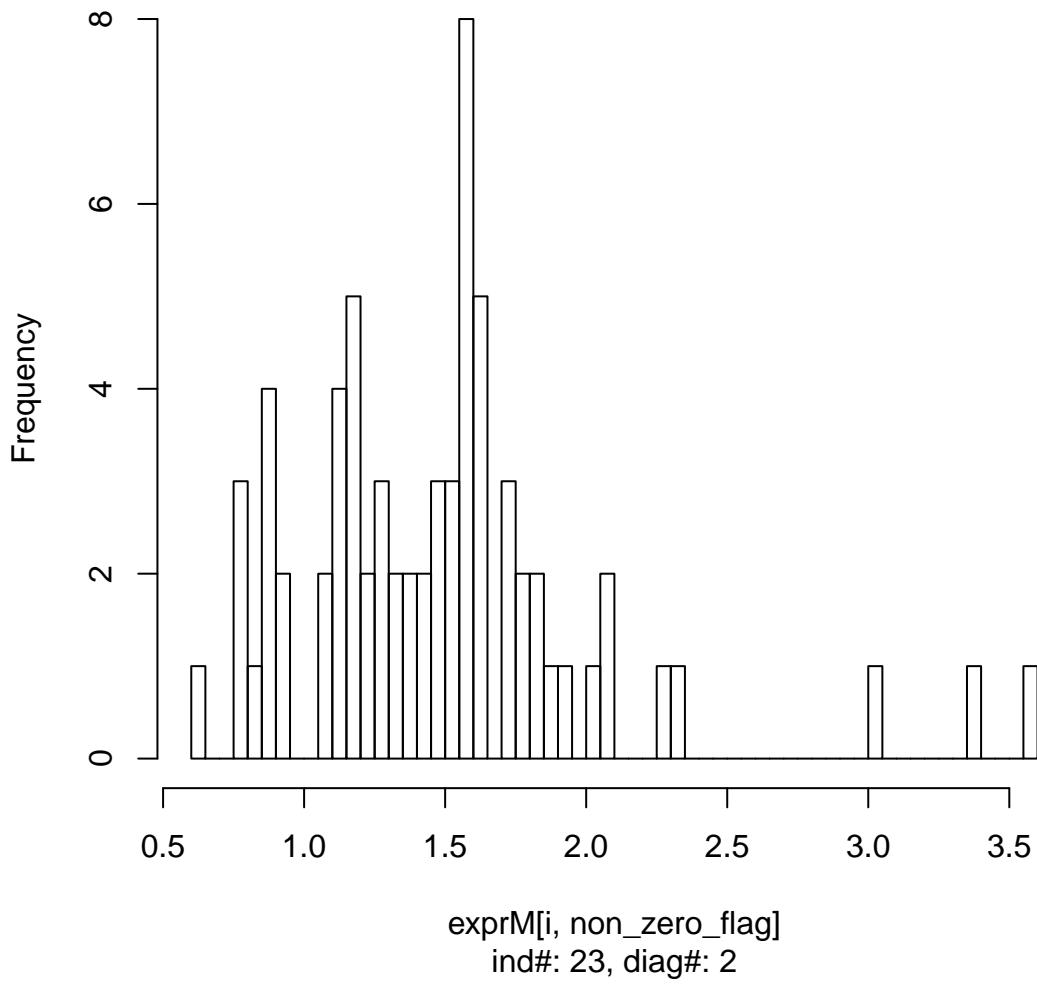
# max of nozero log-express of genes,ksgreater sig



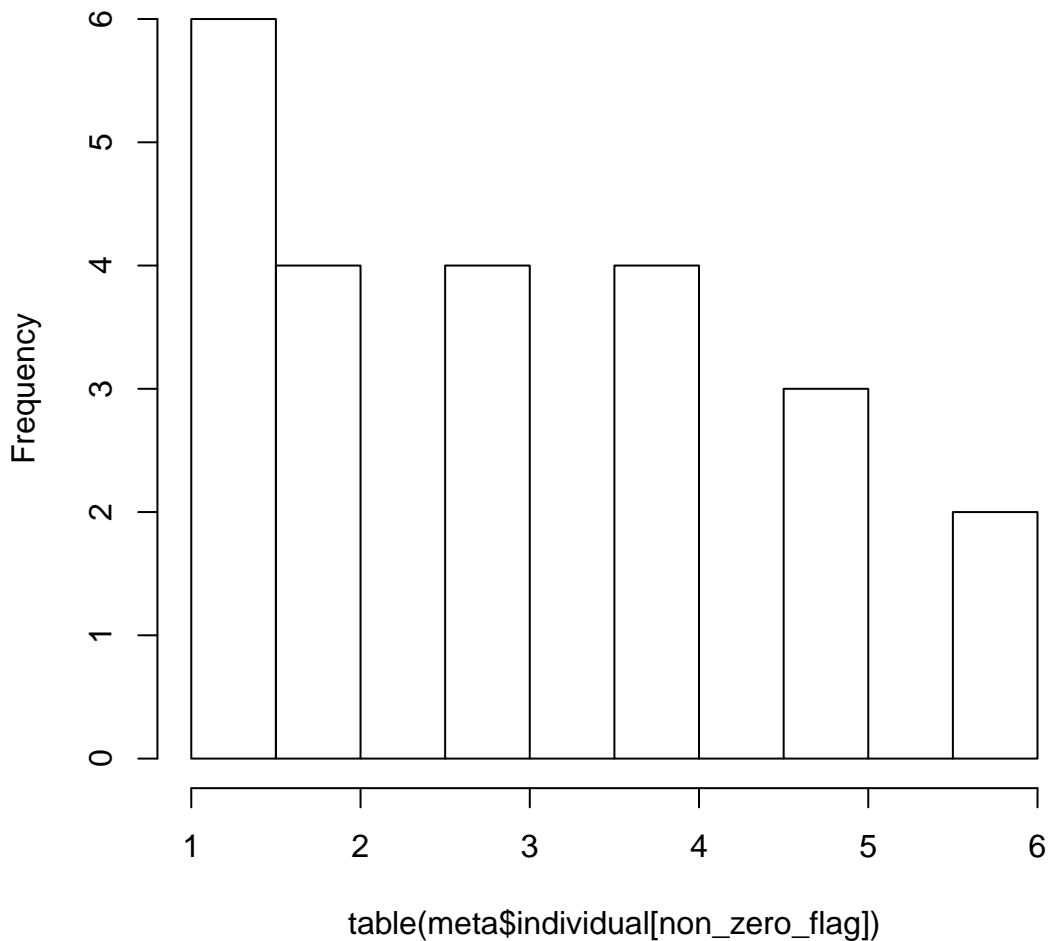
# max of nozero log-express of genes,ks no sig



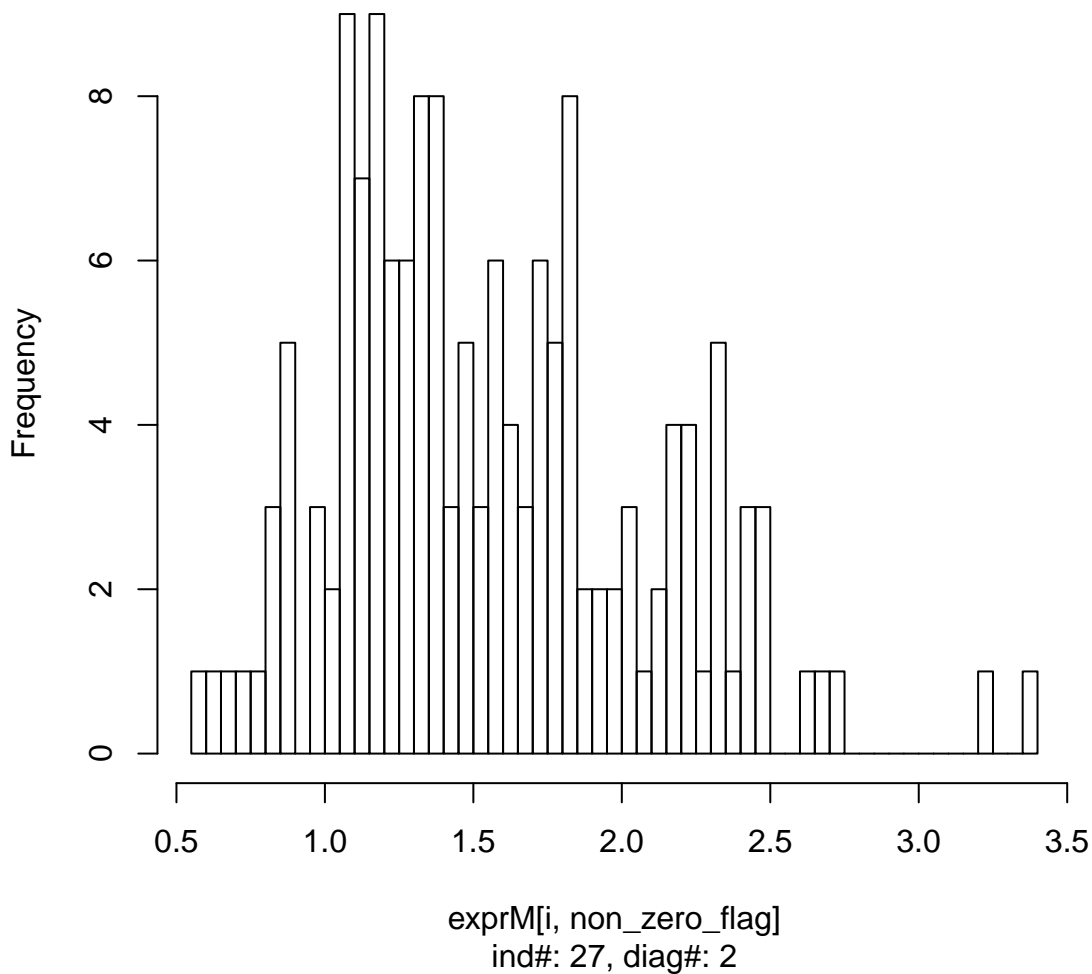
Sless sig: log expression of gene#5, pval ob=0.0662, non-zero nu



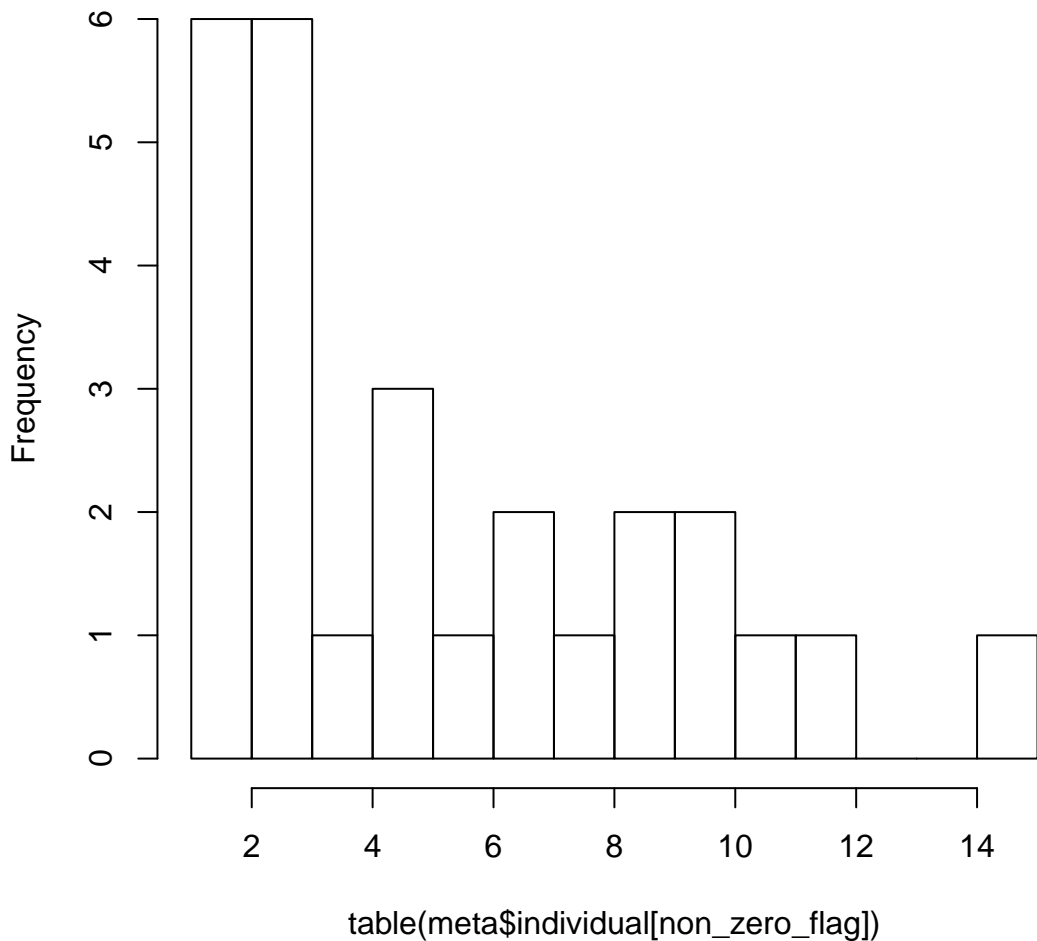
# KSless sig: individual expression cell count of gene#5



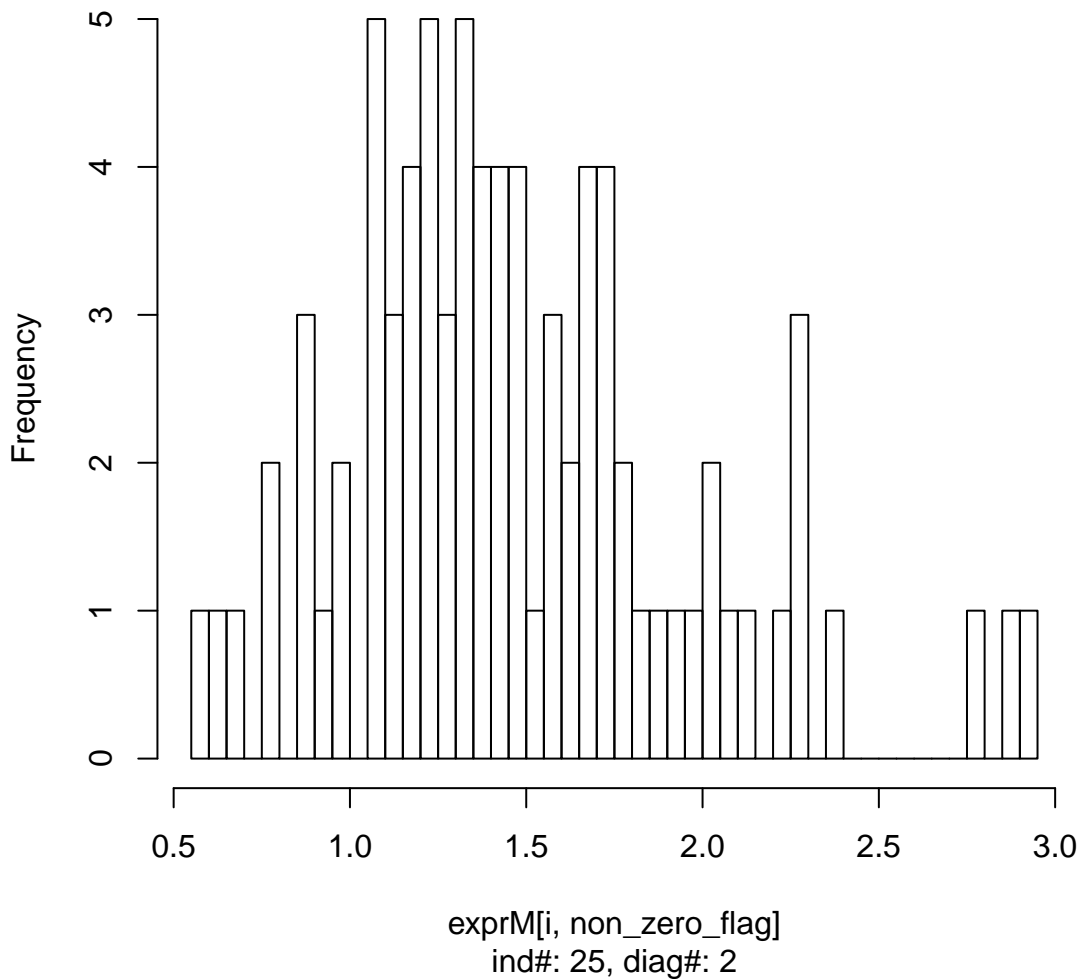
less sig: log expression of gene#8, pval ob=0.3901, non-zero nu



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

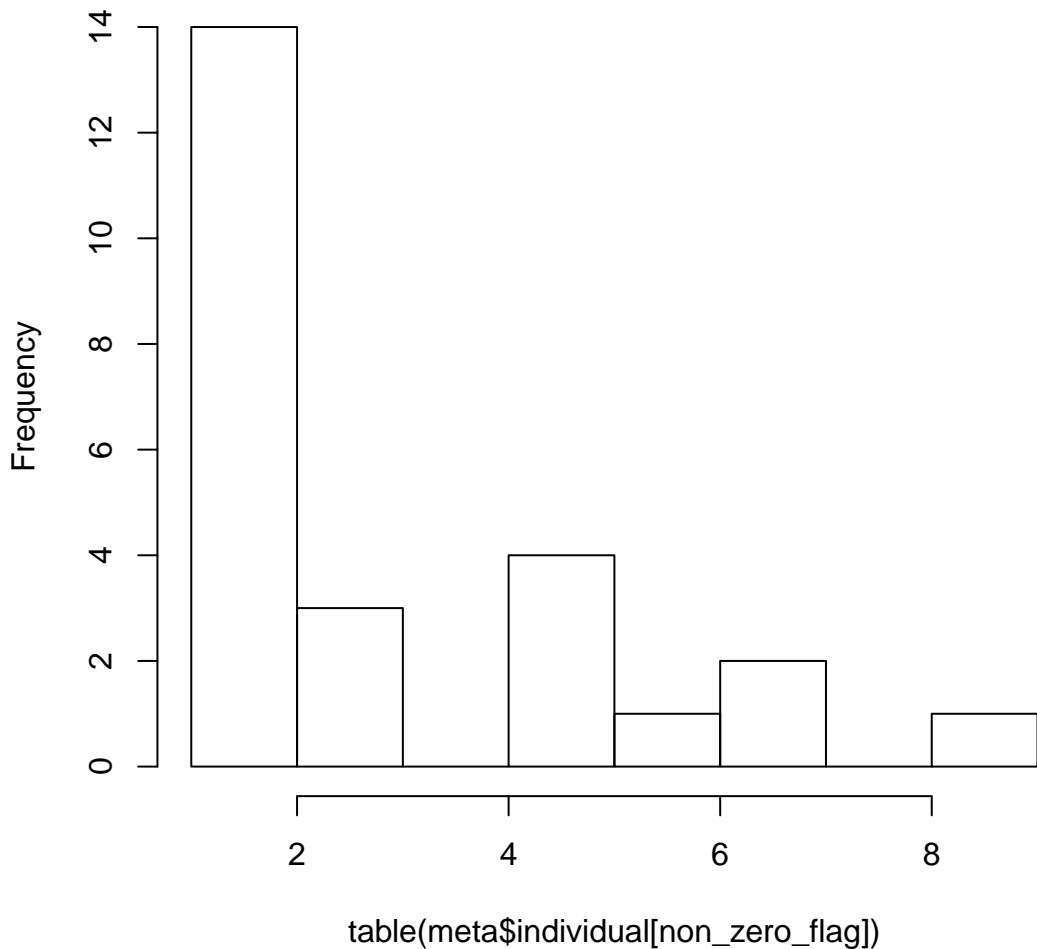


less sig: log expression of gene#65, pval ob=0.3612, non-zero n

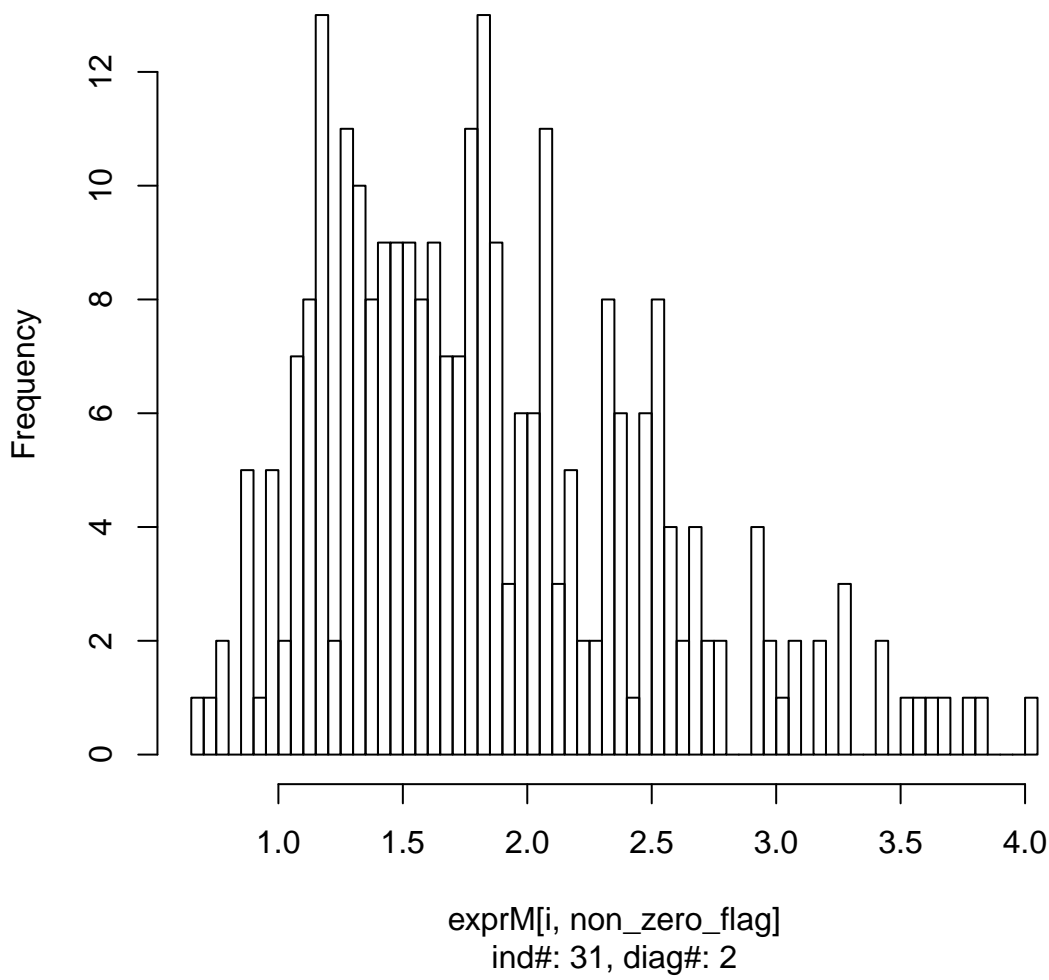




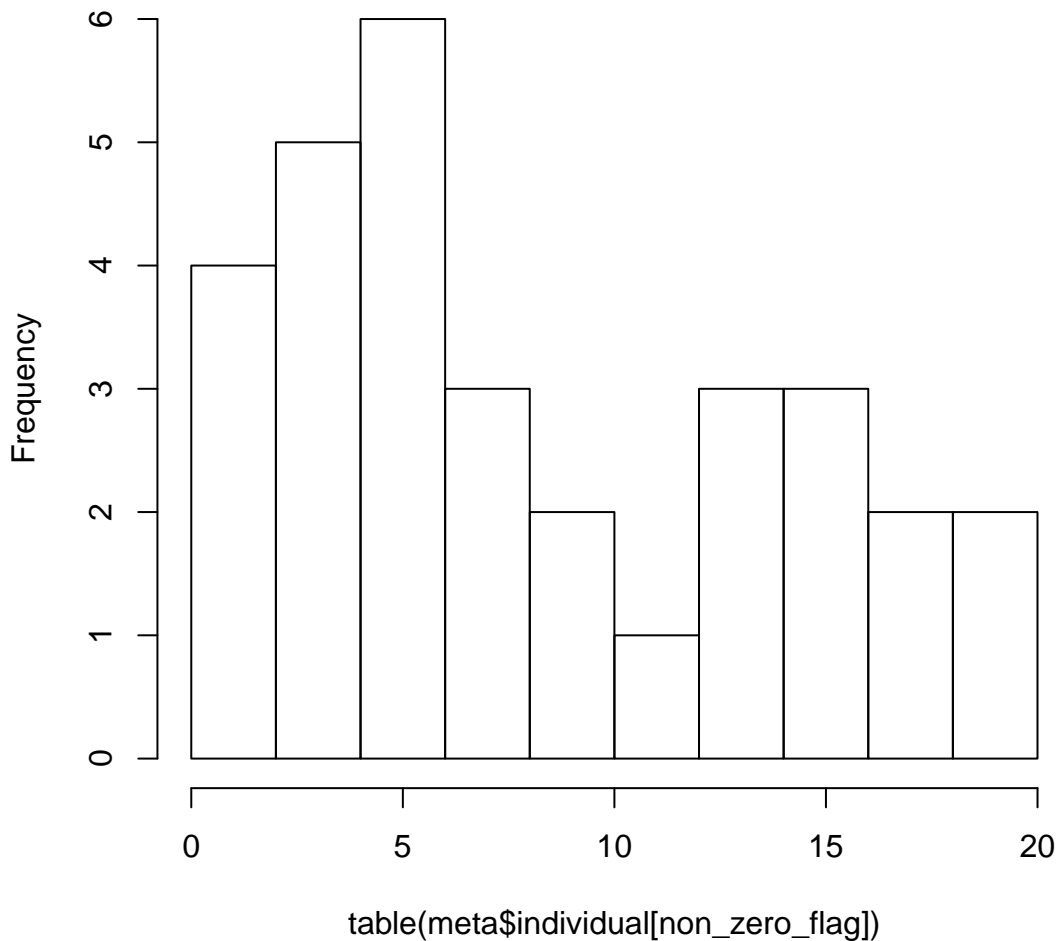
# KSless sig: individual expression cell count of gene#65



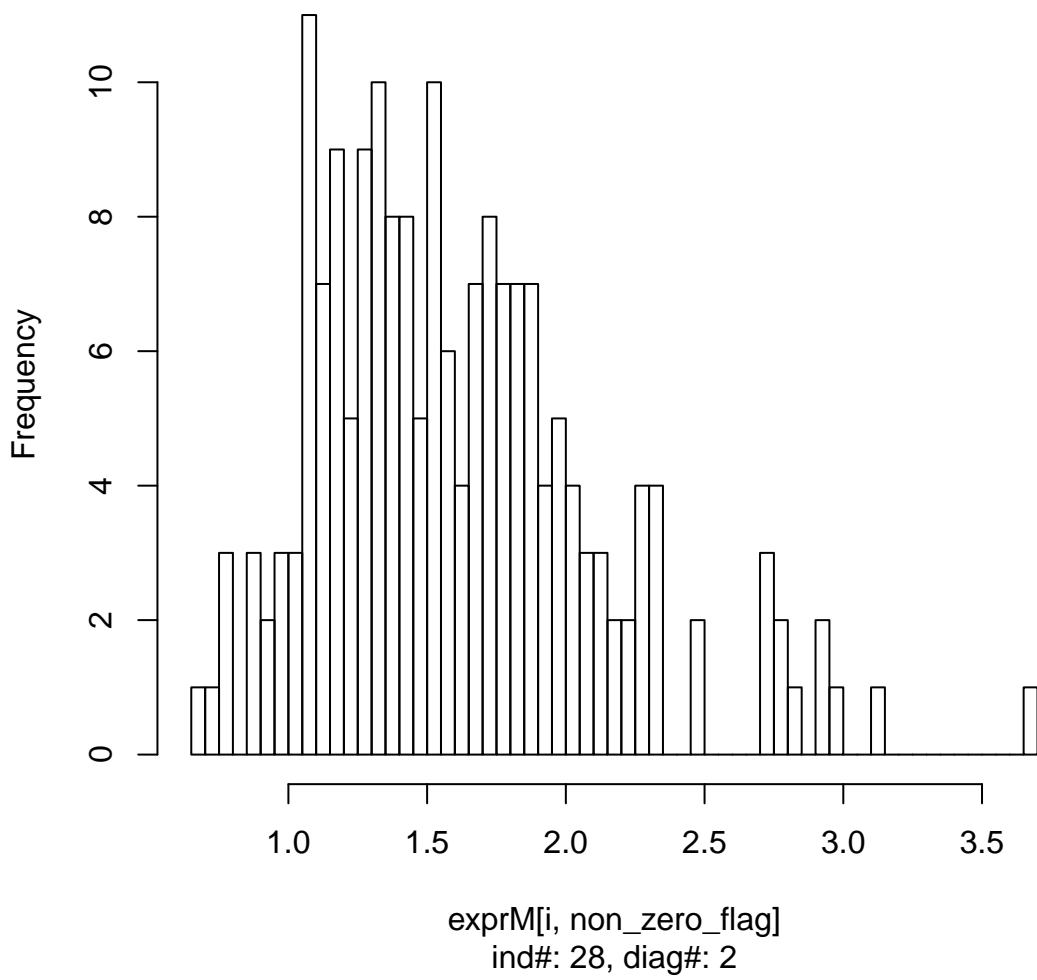
less sig: log expression of gene#101, pval ob=0.9185, non-zero n



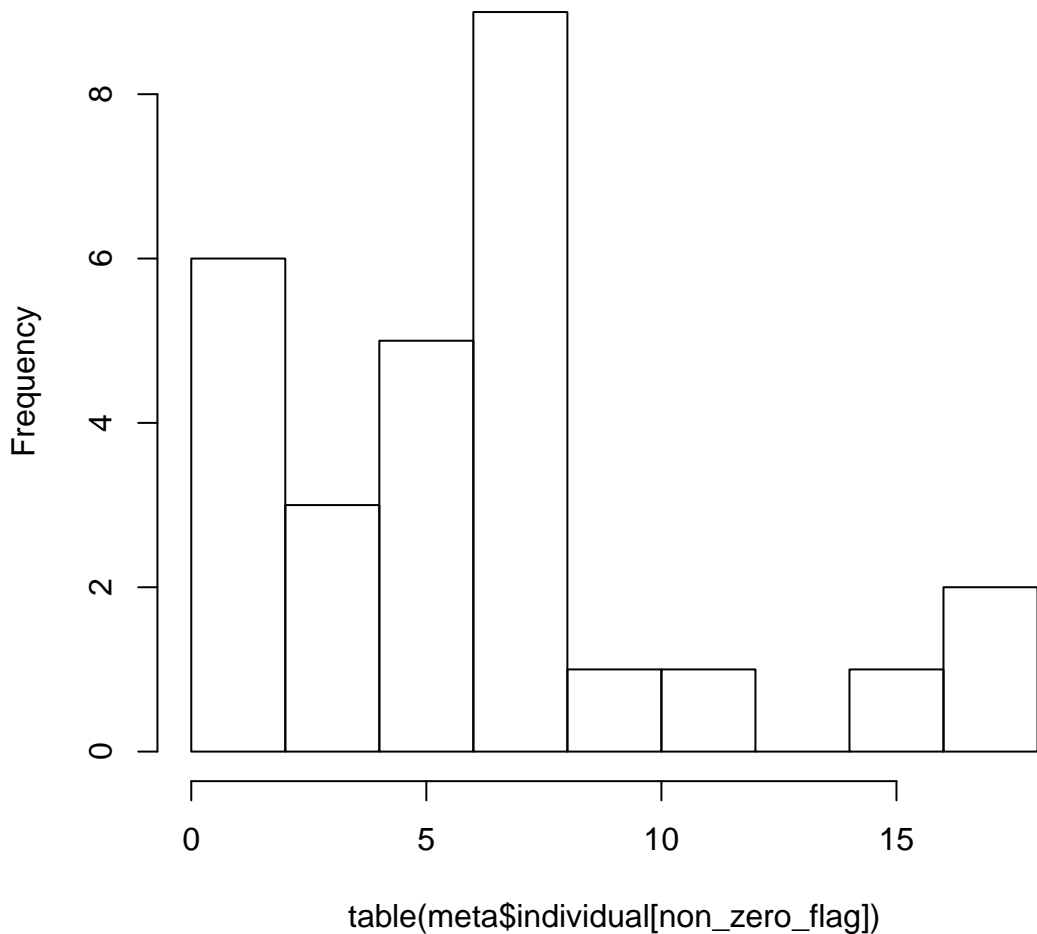
# KSless sig: individual expression cell count of gene#101



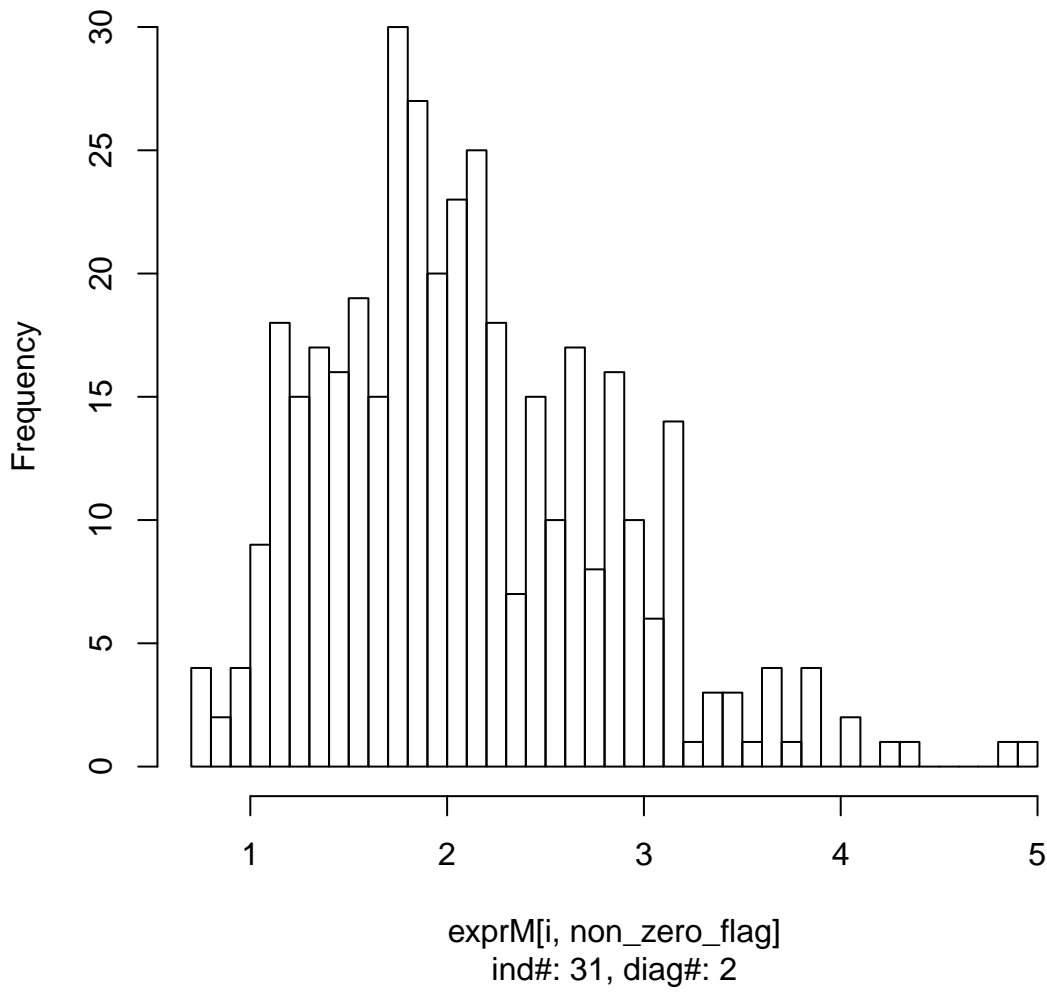
less sig: log expression of gene#103, pval ob=0.0086, non-zero n



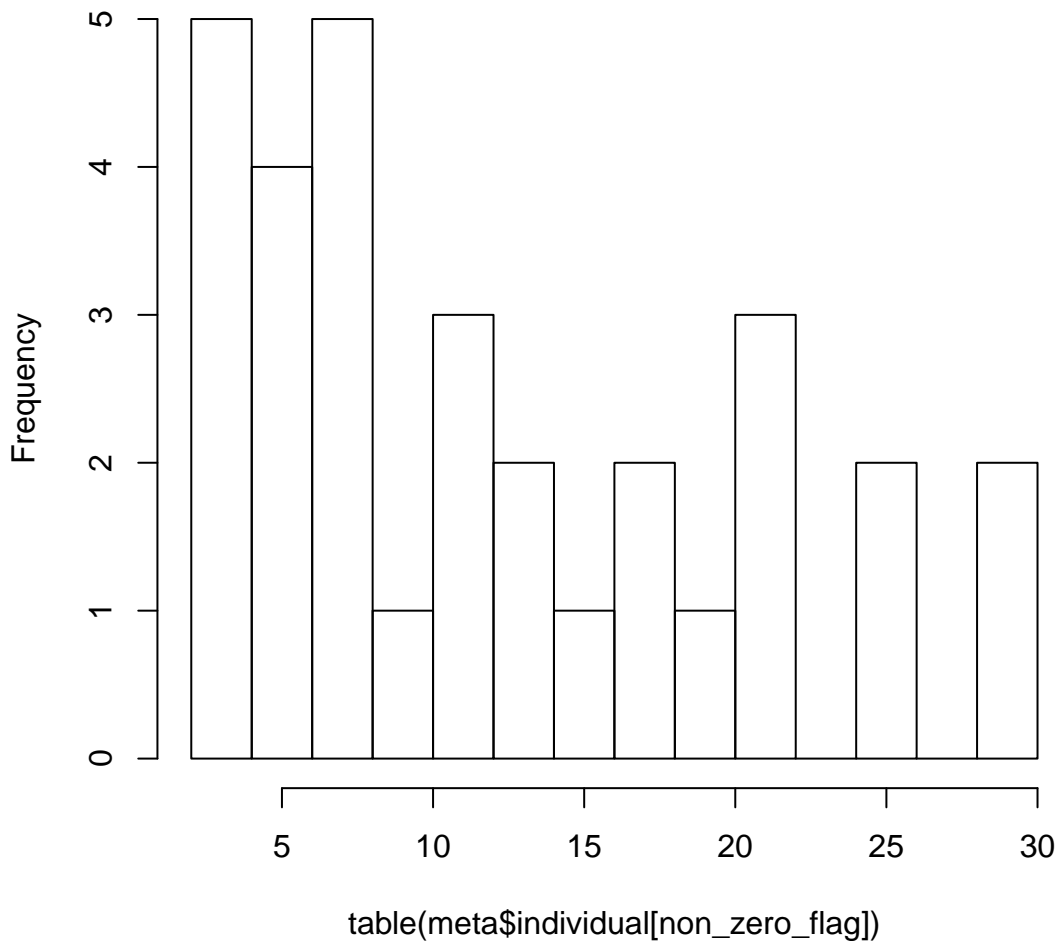
# KSless sig: individual expression cell count of gene#103



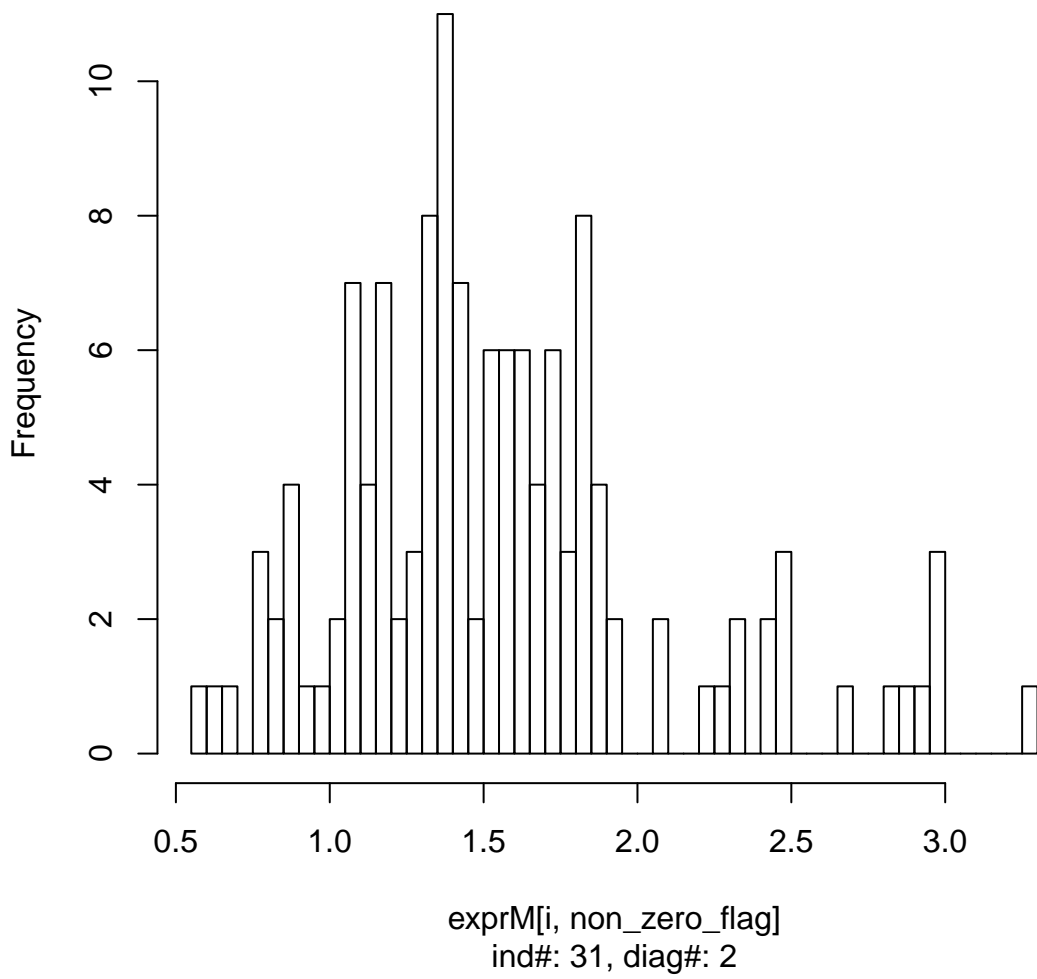
less sig: log expression of gene#104, pval ob=0.717, non-zero nu



# KSless sig: individual expression cell count of gene#104

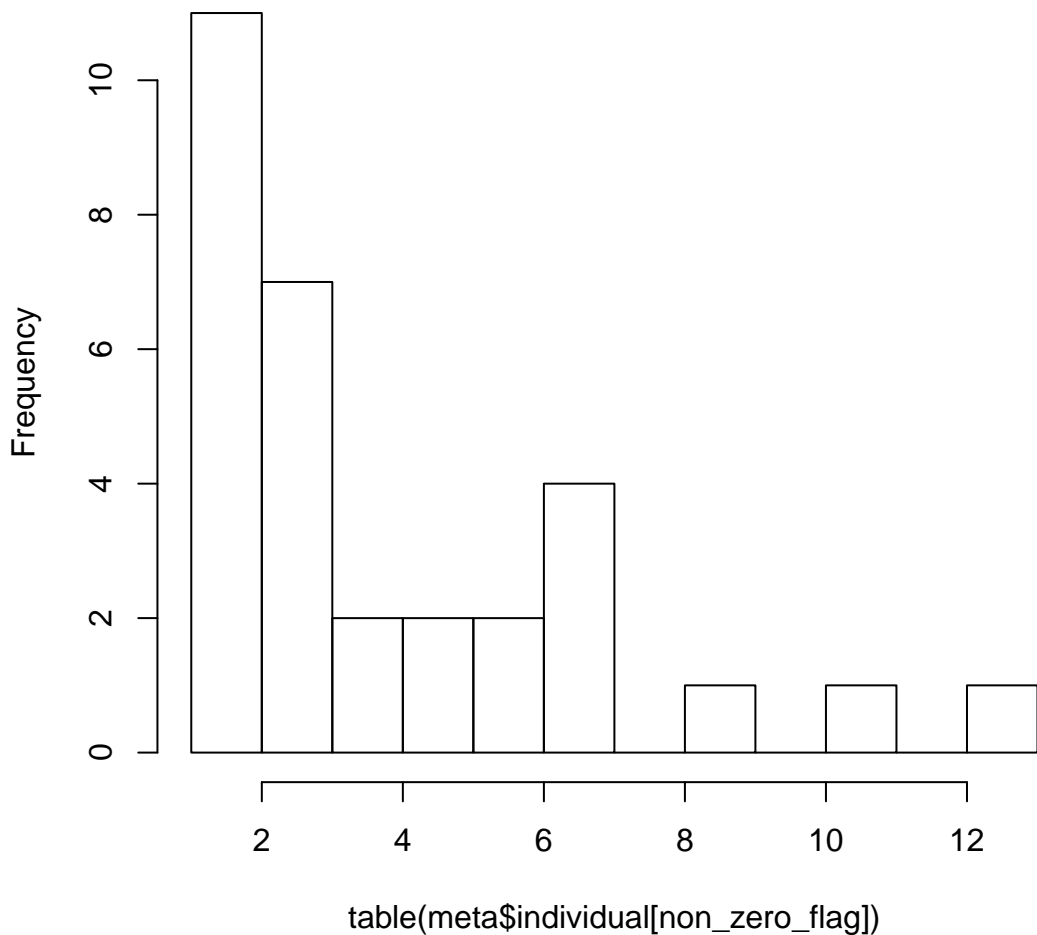


less sig: log expression of gene#105, pval ob=0.7647, non-zero n

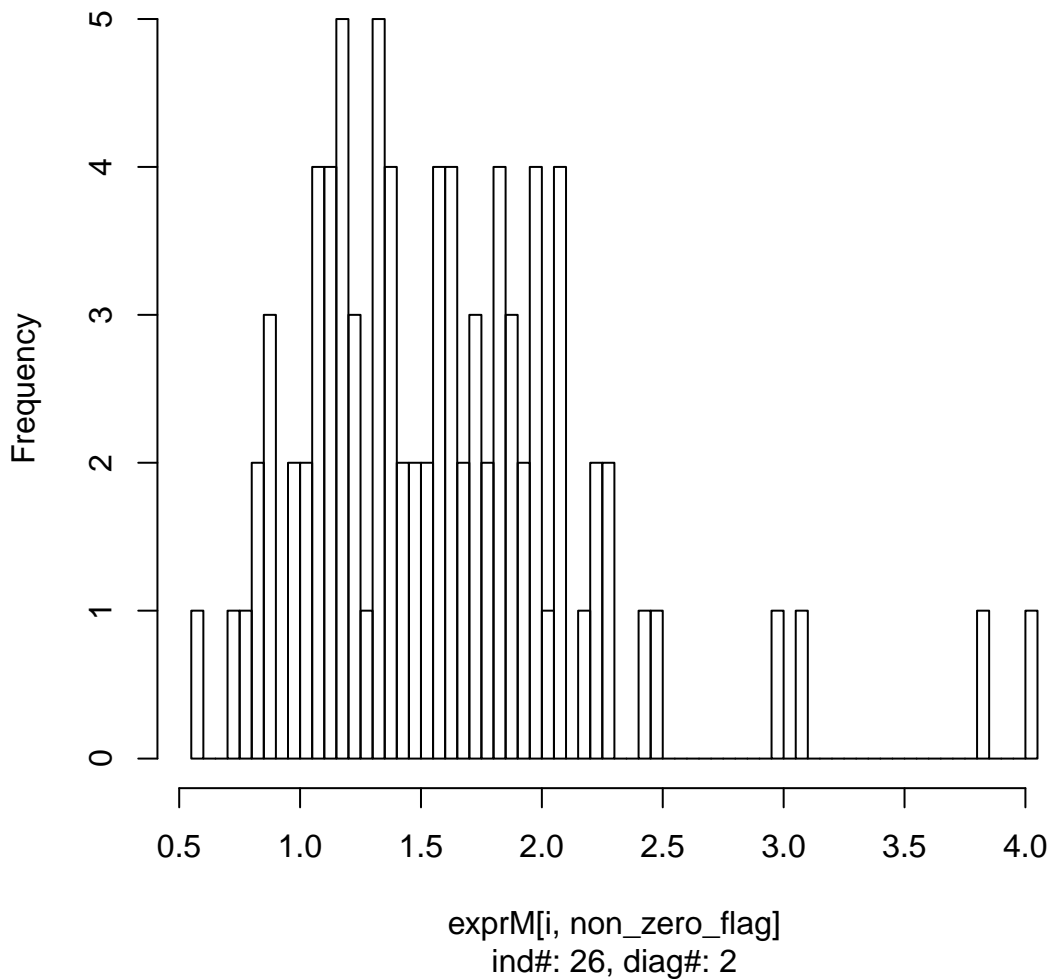




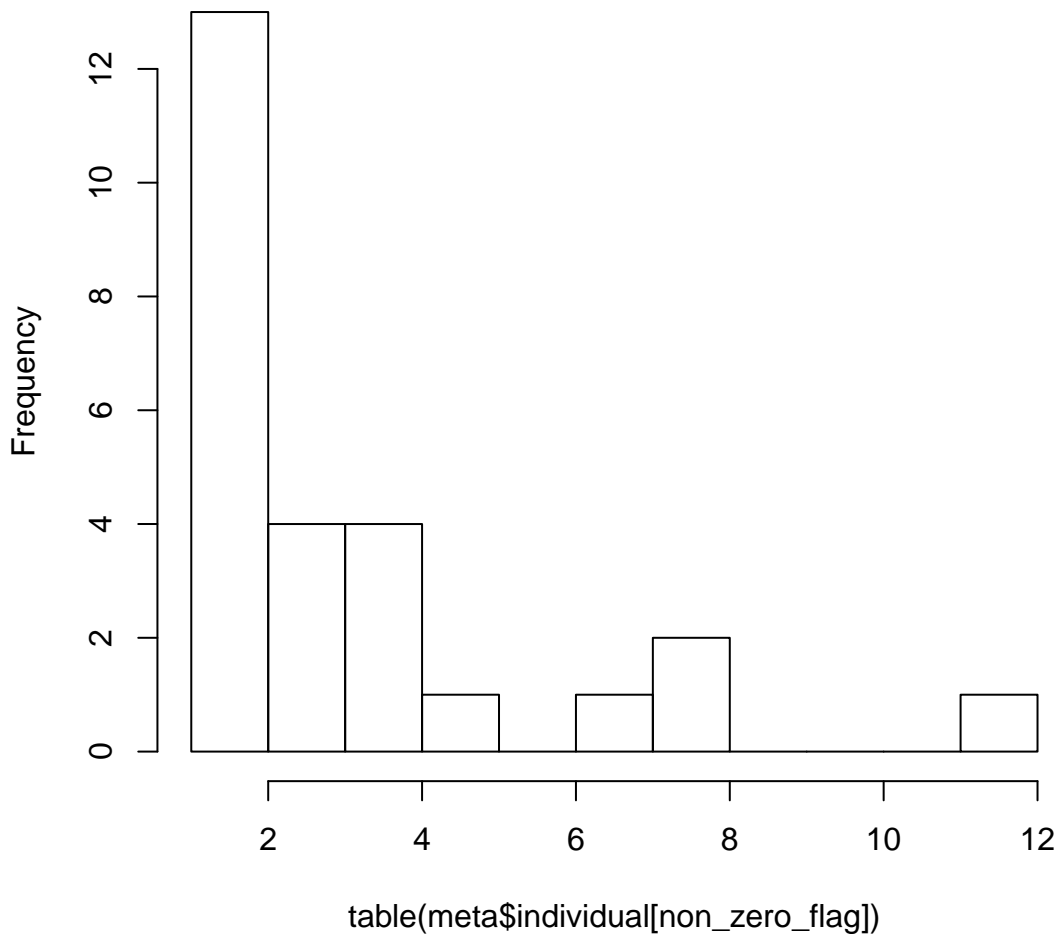
# KSless sig: individual expression cell count of gene#105



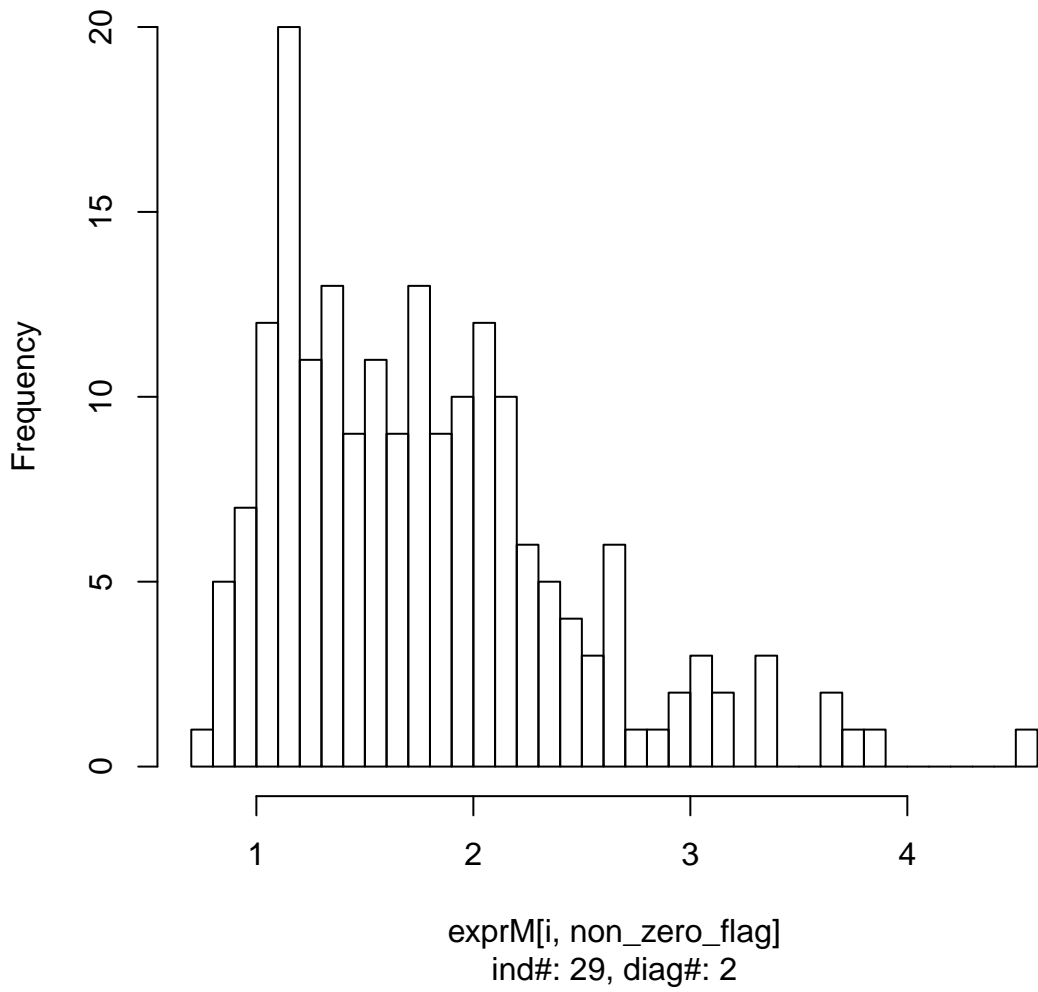
less sig: log expression of gene#109, pval ob=0.1015, non-zero n



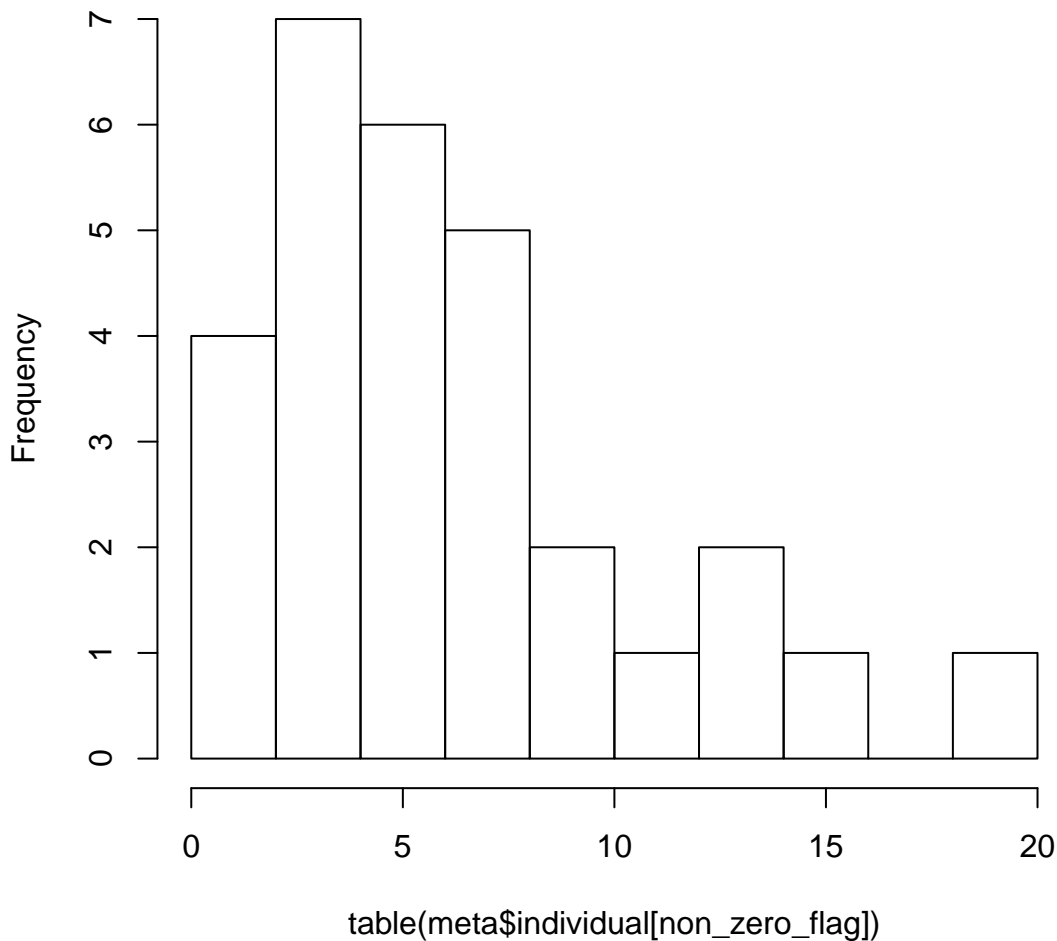
# KSless sig: individual expression cell count of gene#109



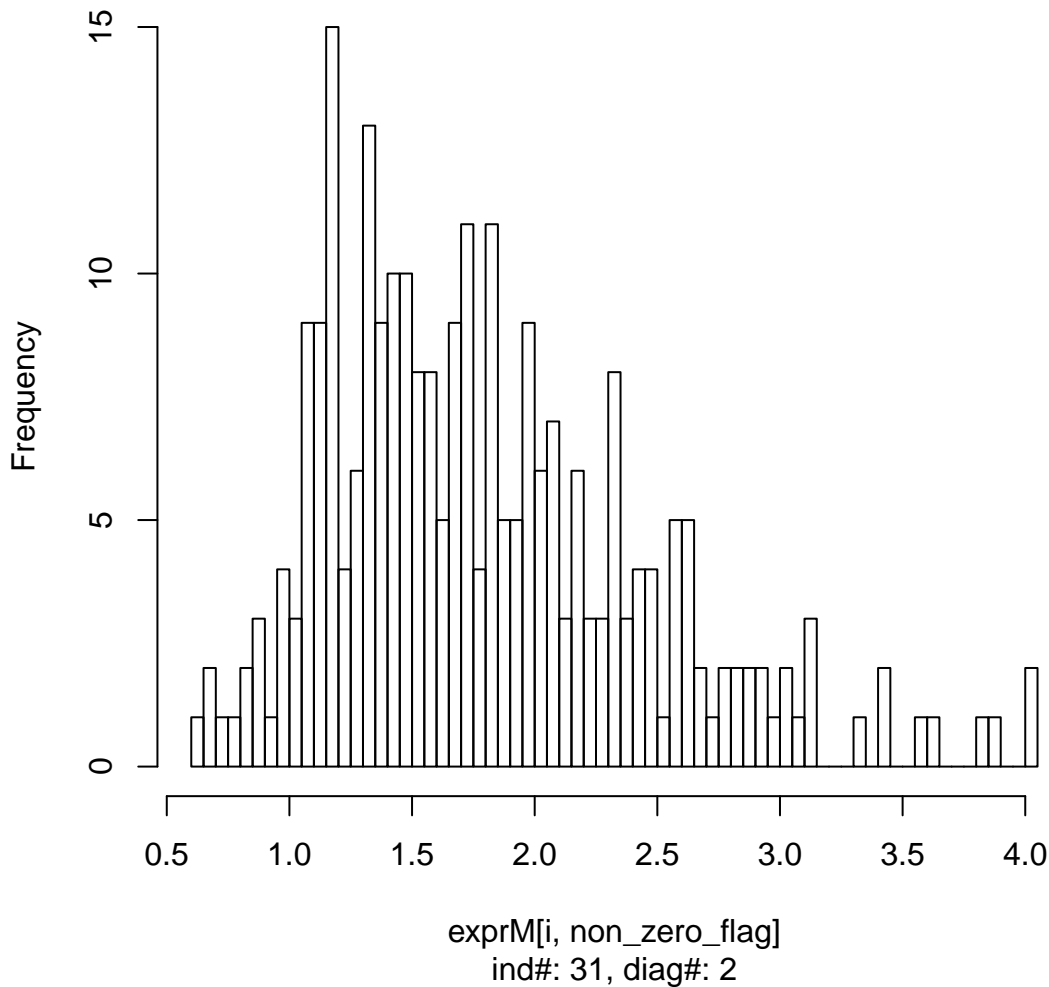
less sig: log expression of gene#116, pval ob=0.4395, non-zero n



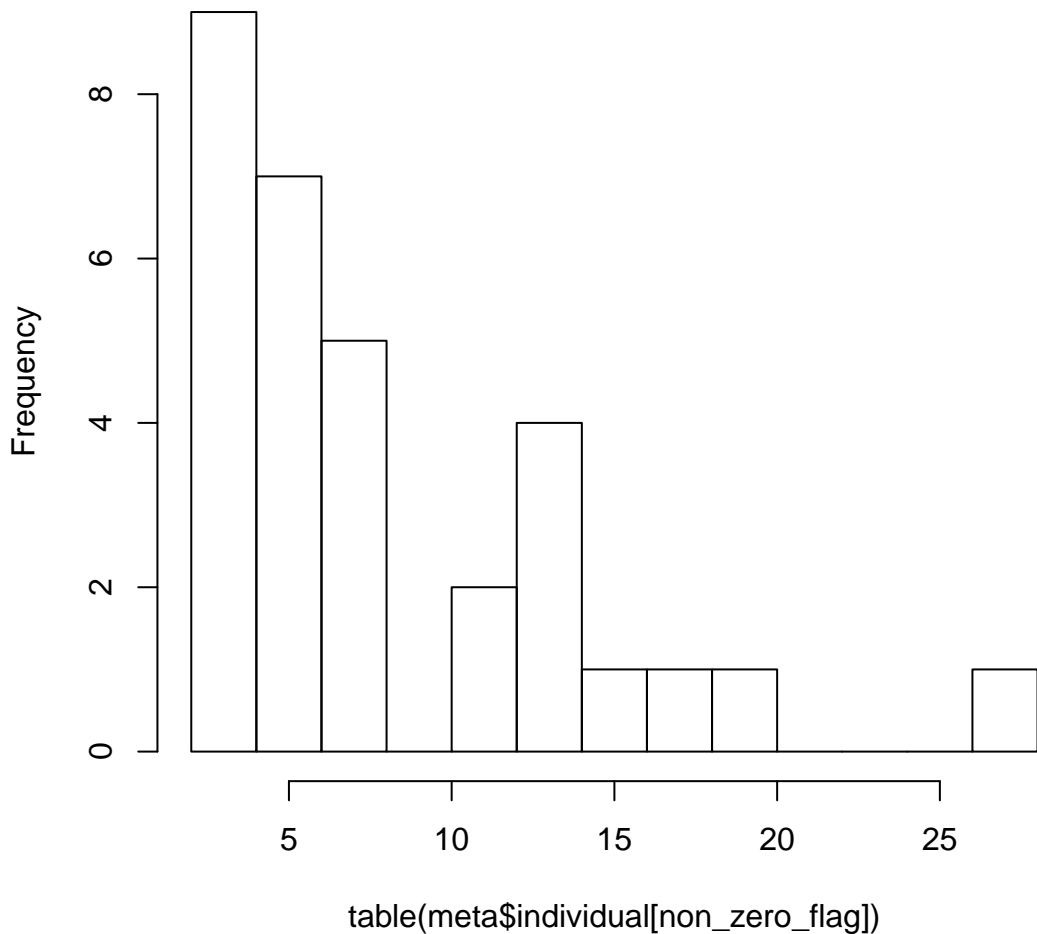
# KSless sig: individual expression cell count of gene#116



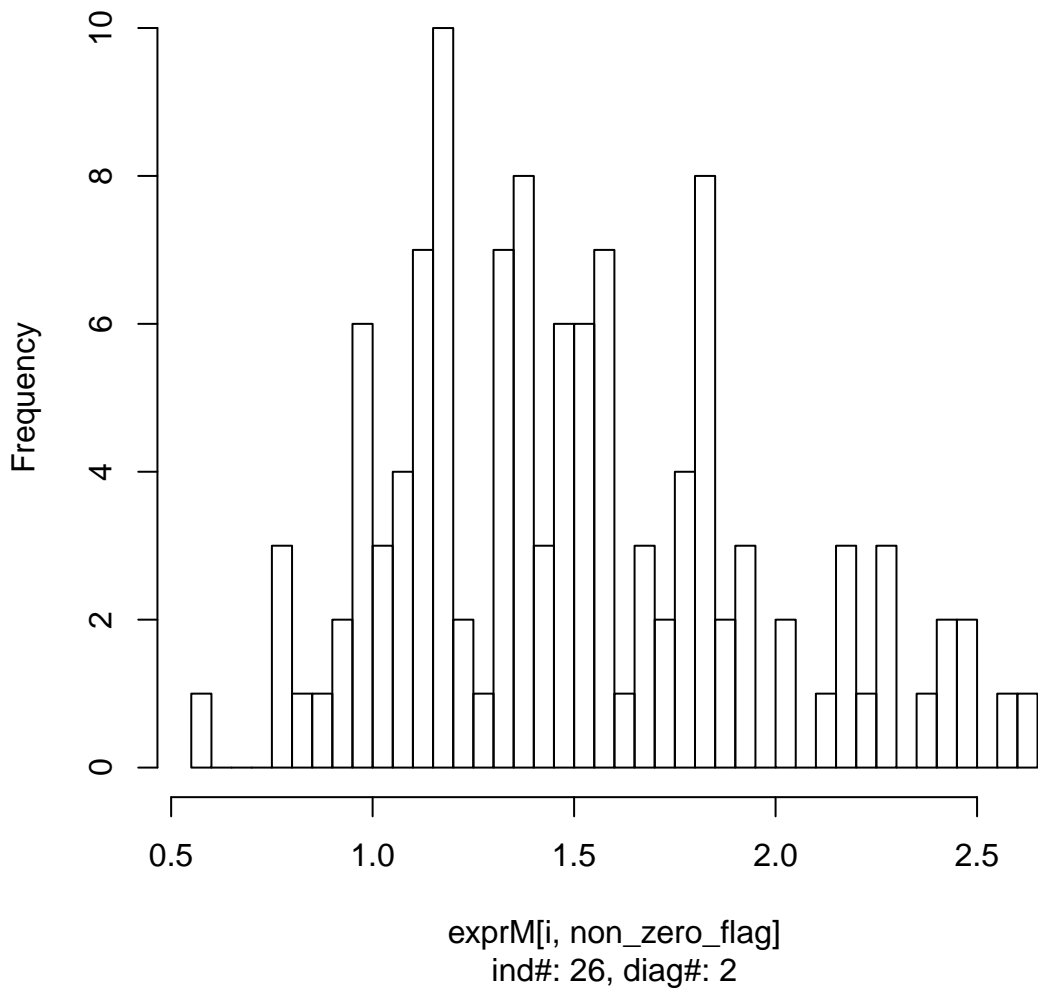
less sig: log expression of gene#128, pval ob=0.1156, non-zero n



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

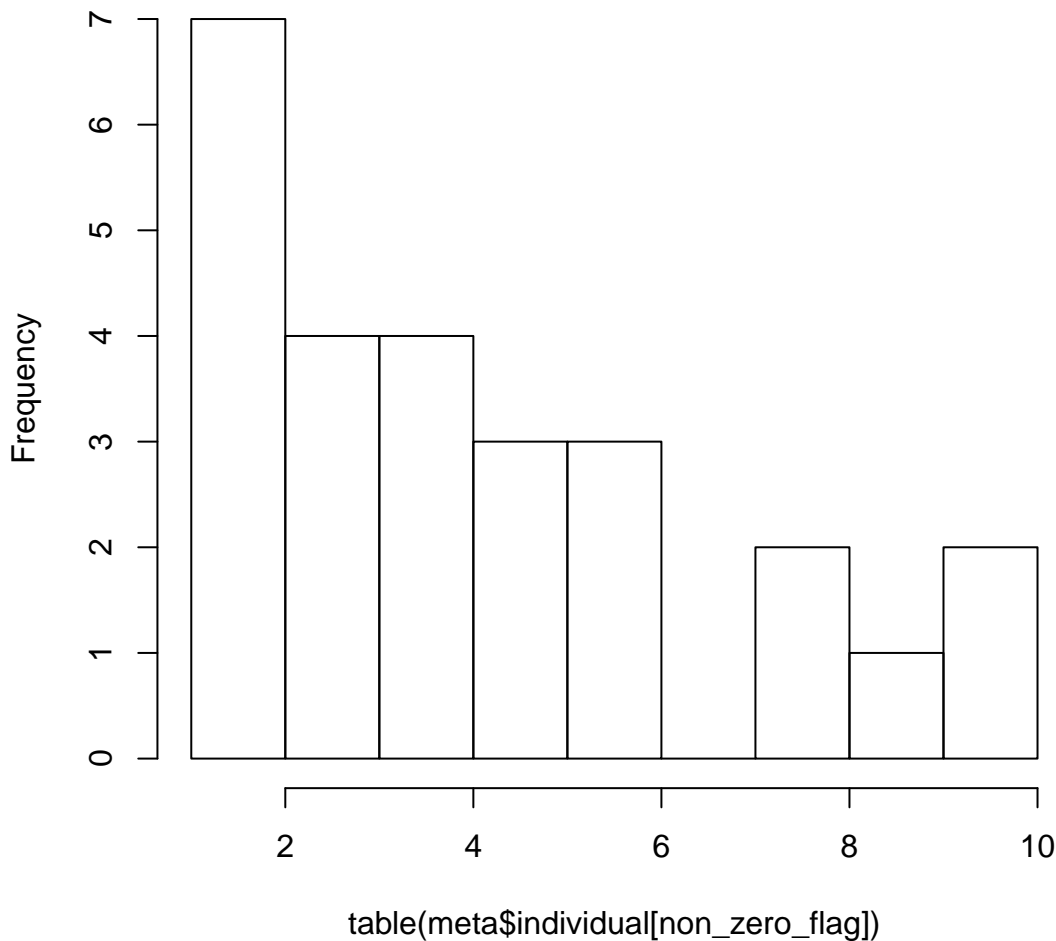


**S nonsig: log expression of gene#6, pval ob=0.8929, non-zero num**

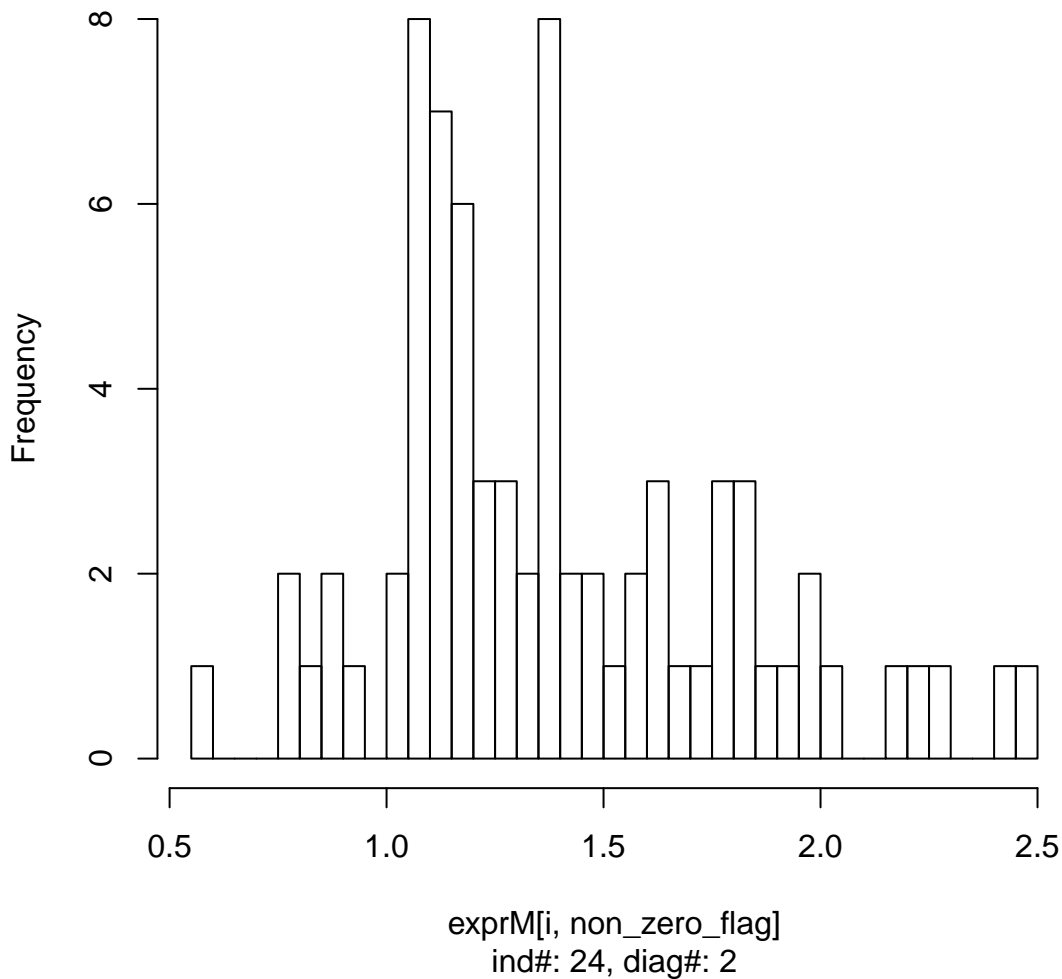




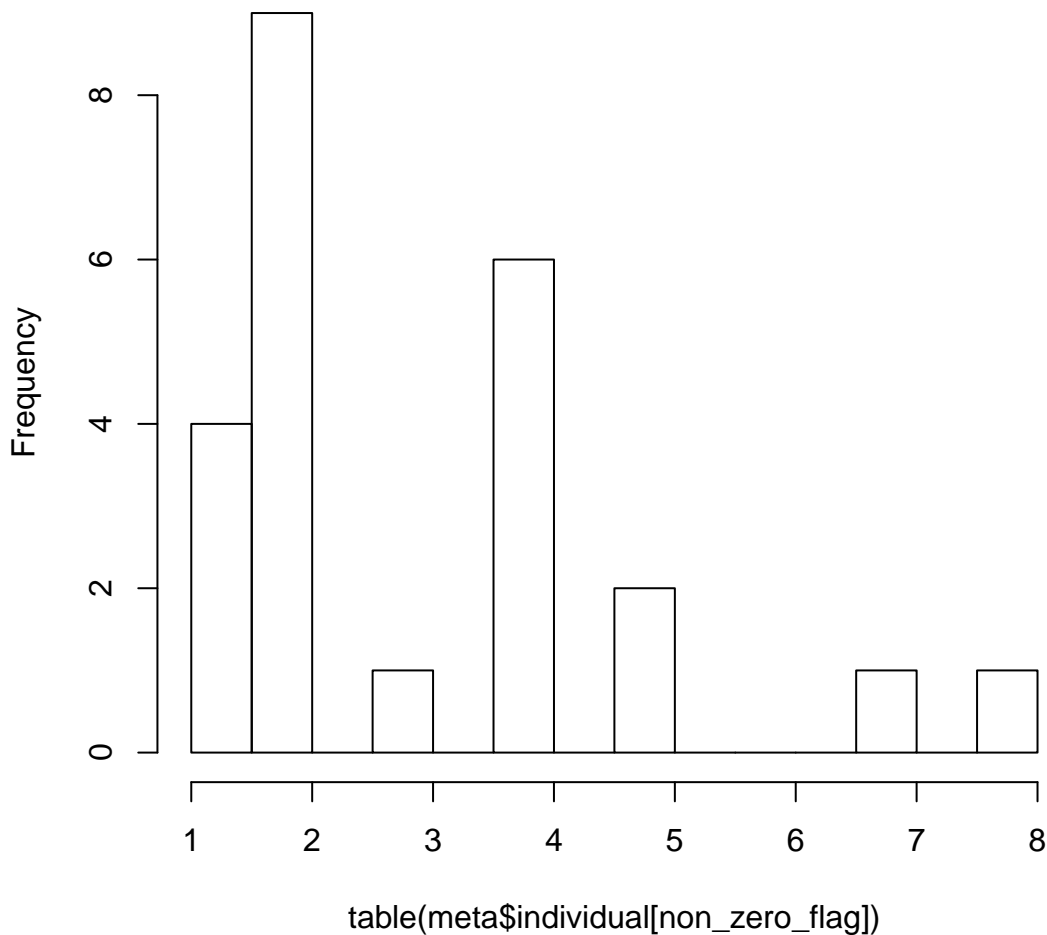
# KSless nonsig: individual expression cell count of gene#6



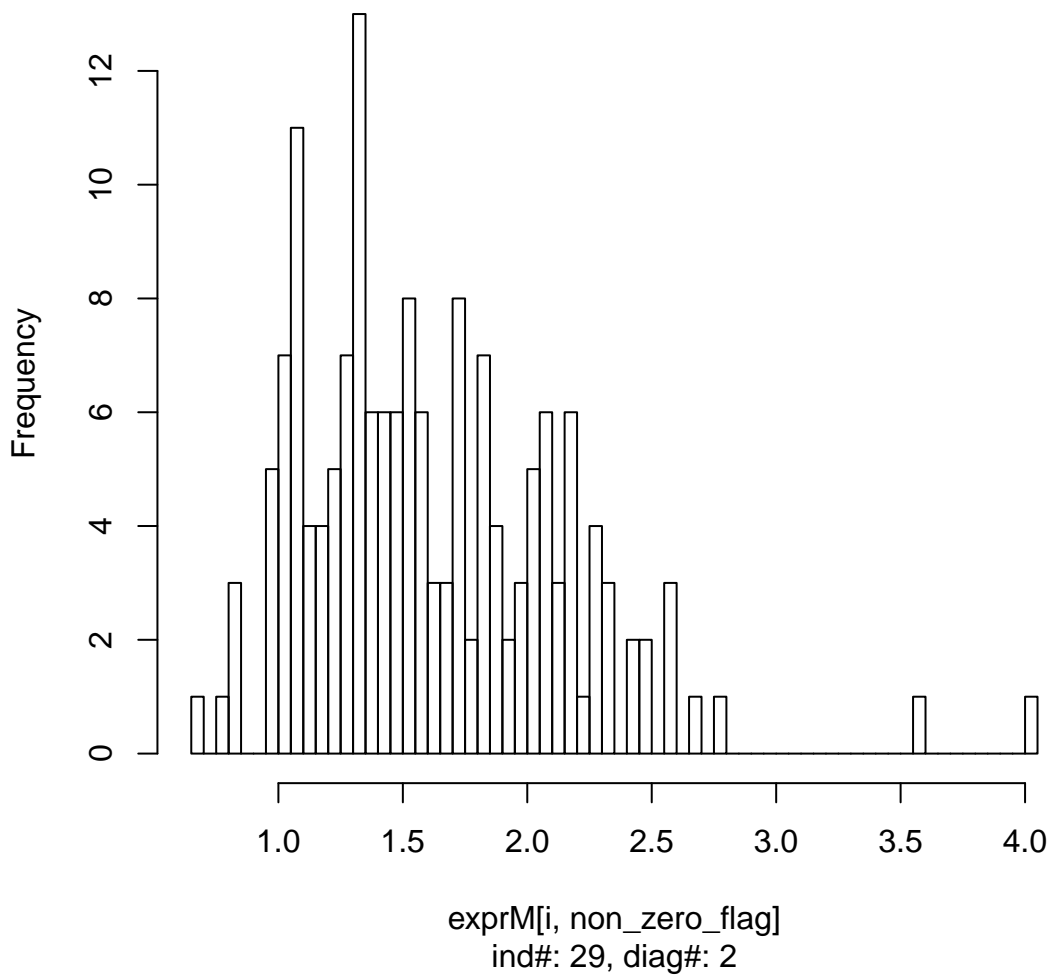
**S nonsig: log expression of gene#7, pval ob=0.1809, non-zero nu**



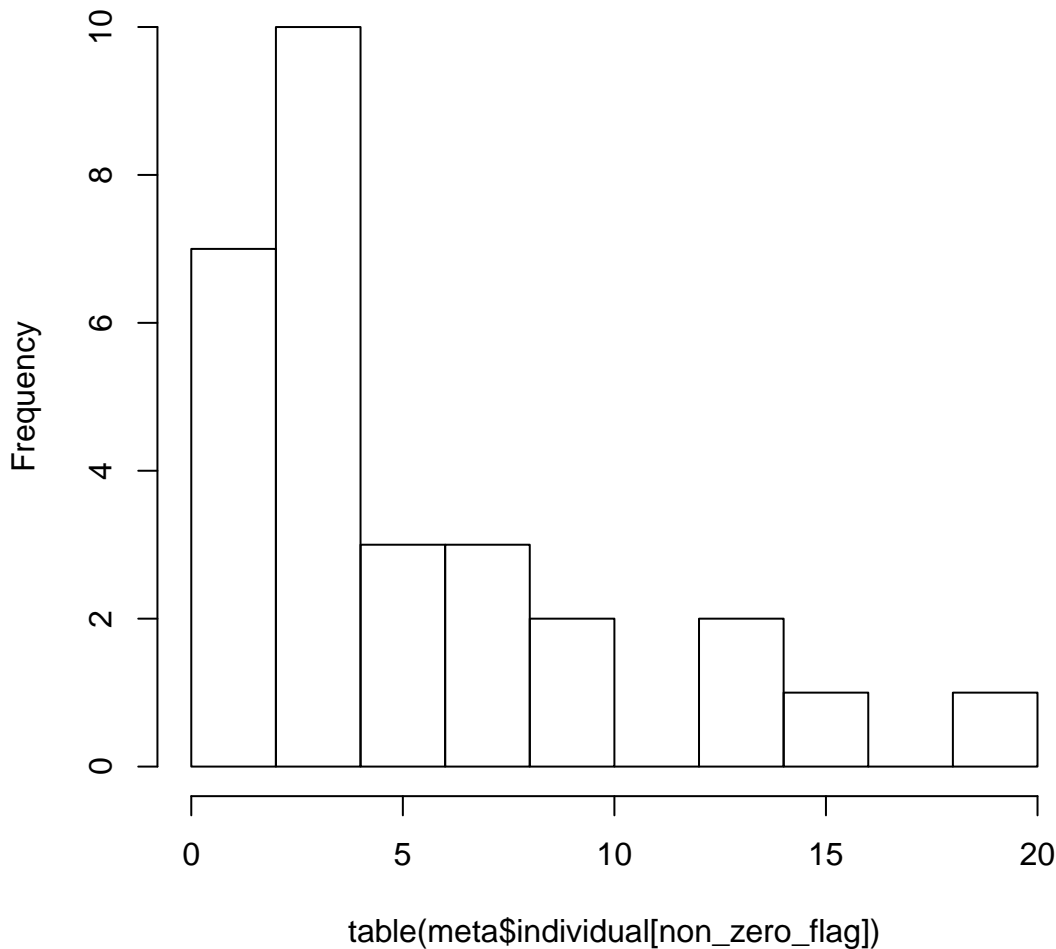
# KSless nonsig: individual expression cell count of gene#7



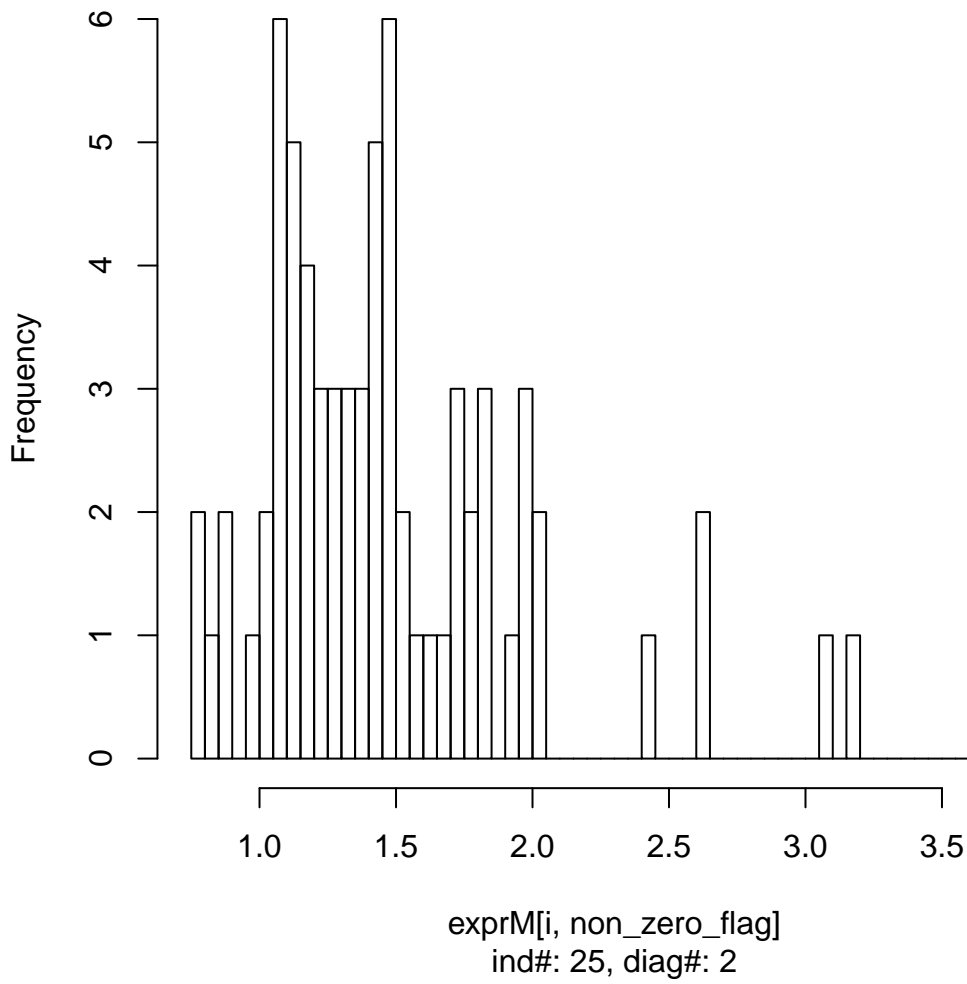
**nsig: log expression of gene#10, pval ob=0.5799, non-zero nu**



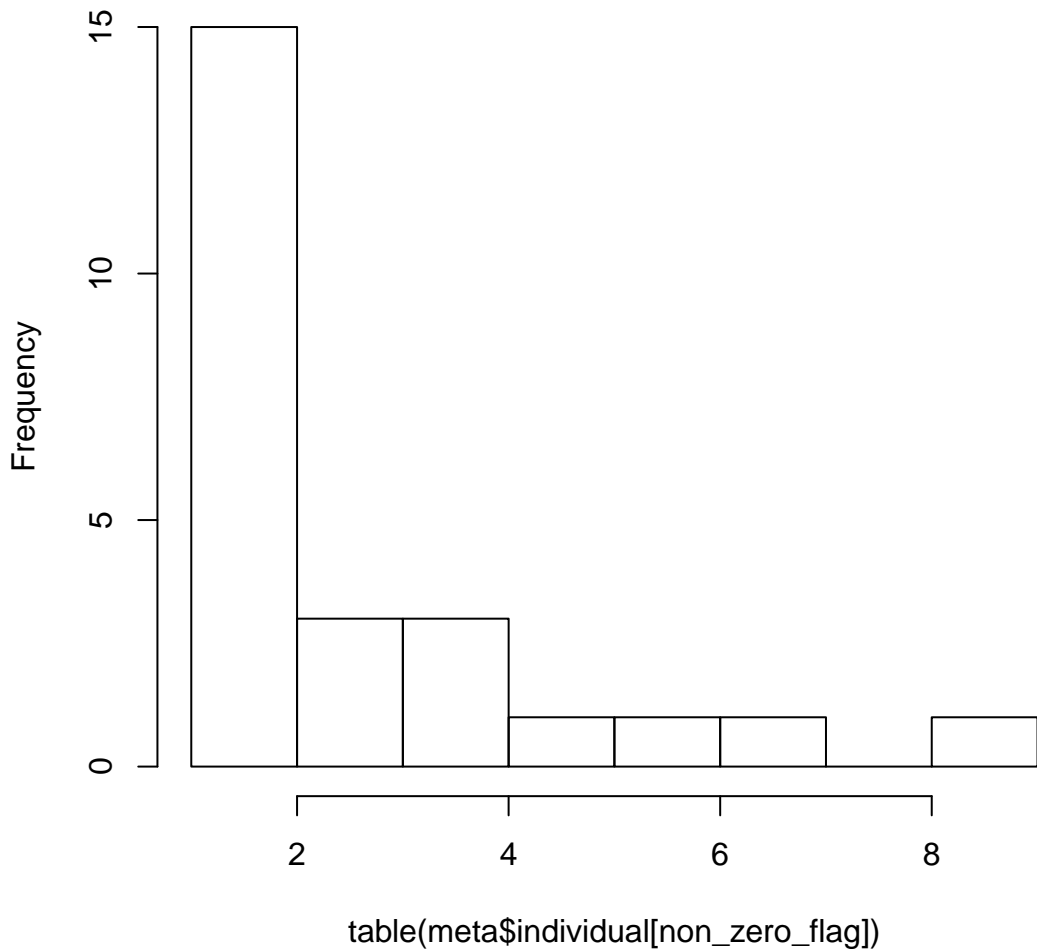
# KSless nonsig: individual expression cell count of gene#10



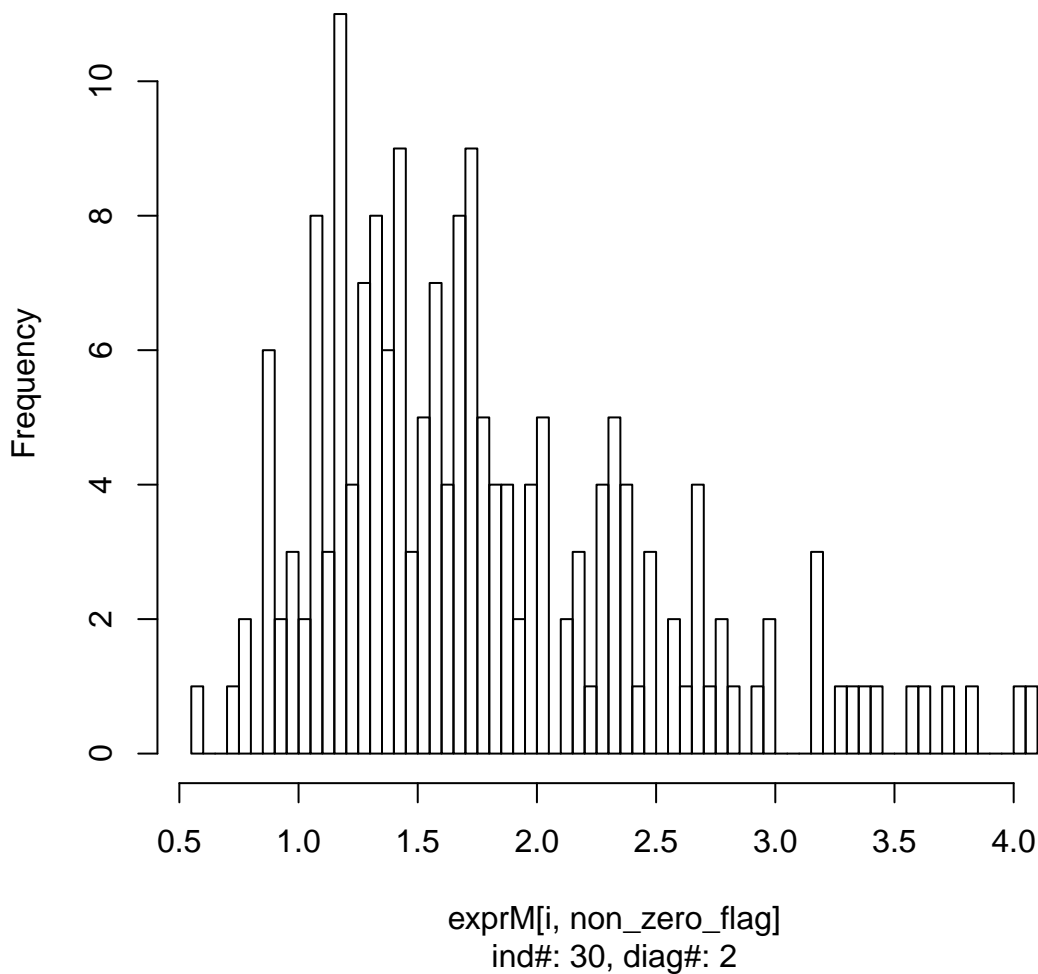
**S nonsig: log expression of gene#20, pval ob=0.1528, non-zero n**



# KSless nonsig: individual expression cell count of gene#20

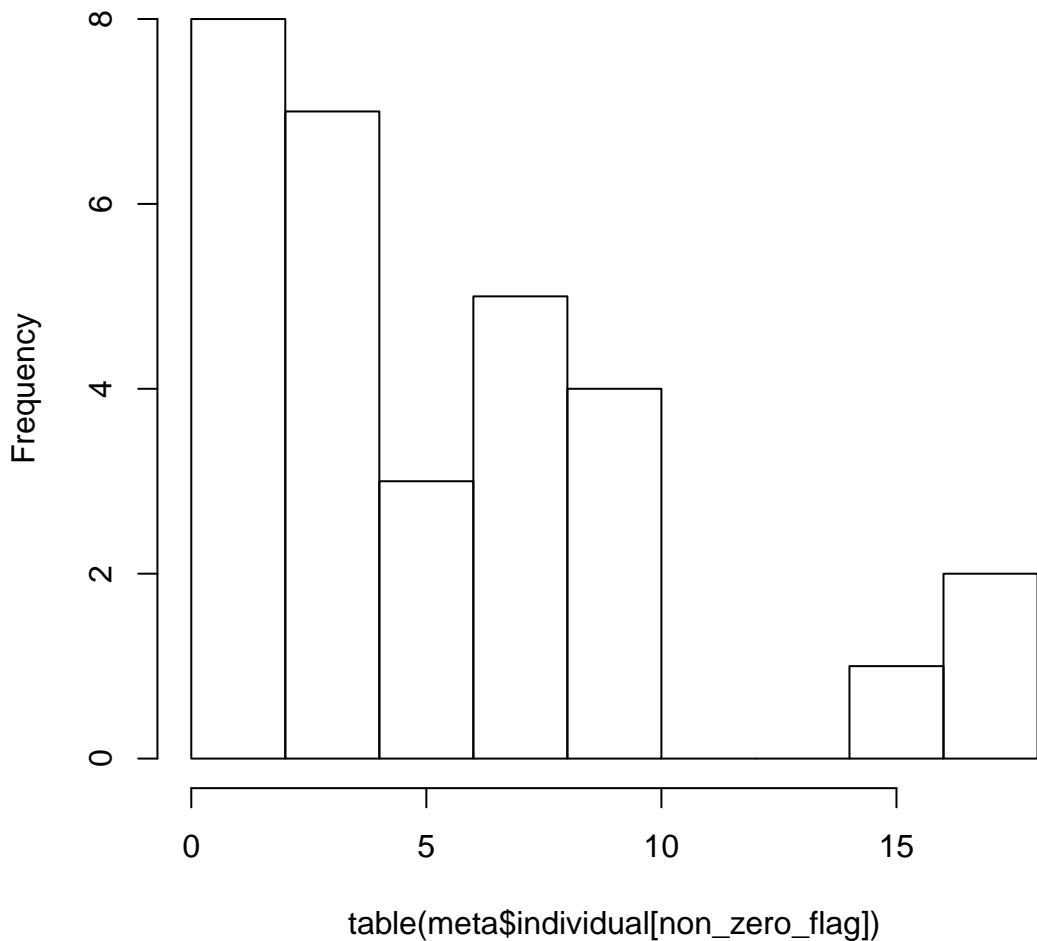


nsig: log expression of gene#32, pval ob=0.4717, non-zero nu

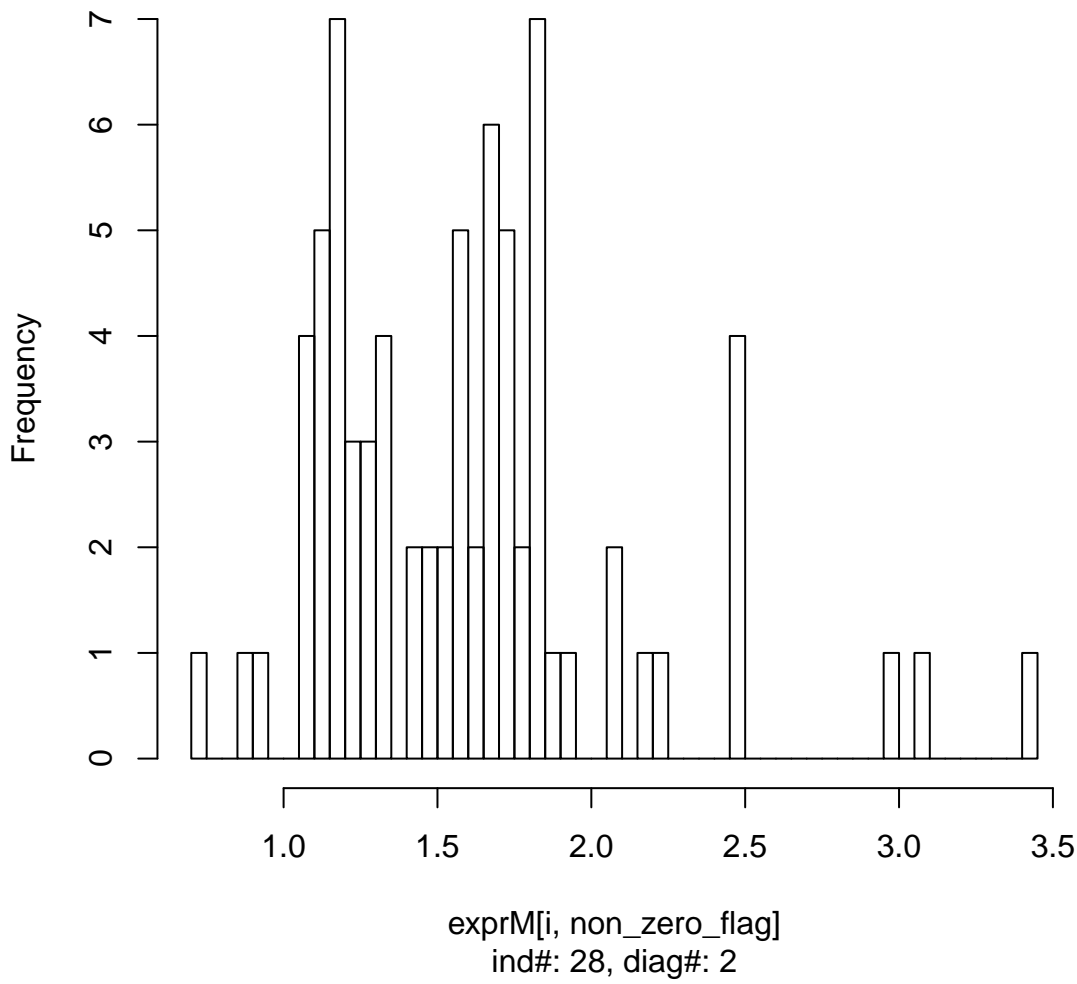




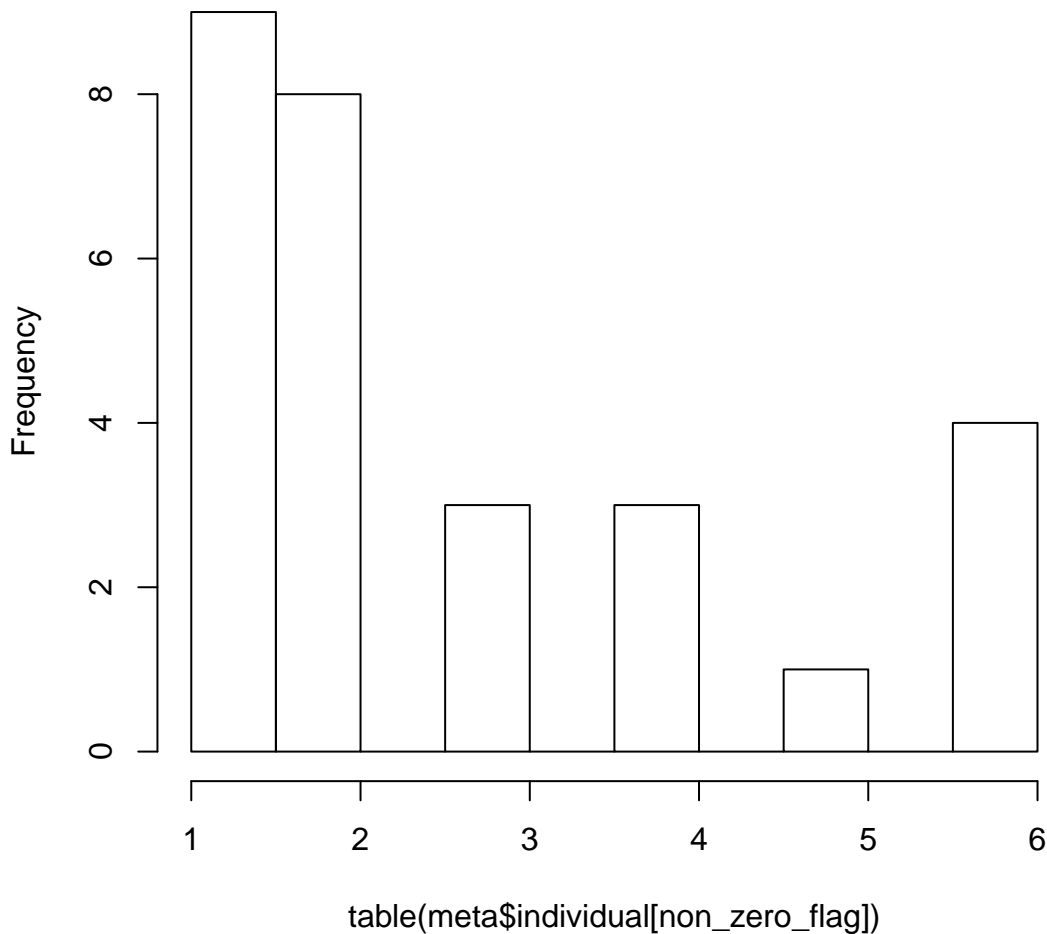
# KSless nonsig: individual expression cell count of gene#32



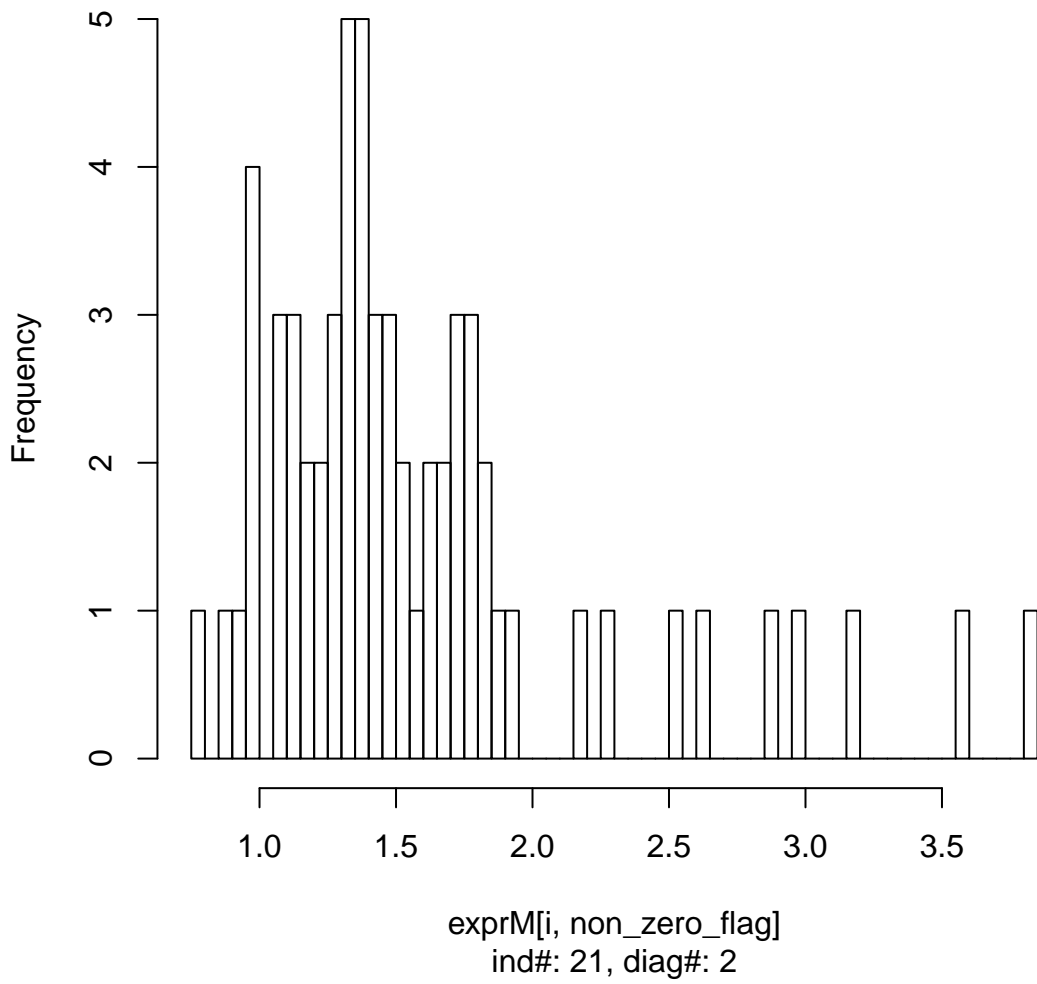
S nonsig: log expression of gene#36, pval ob=0.6345, non-zero n



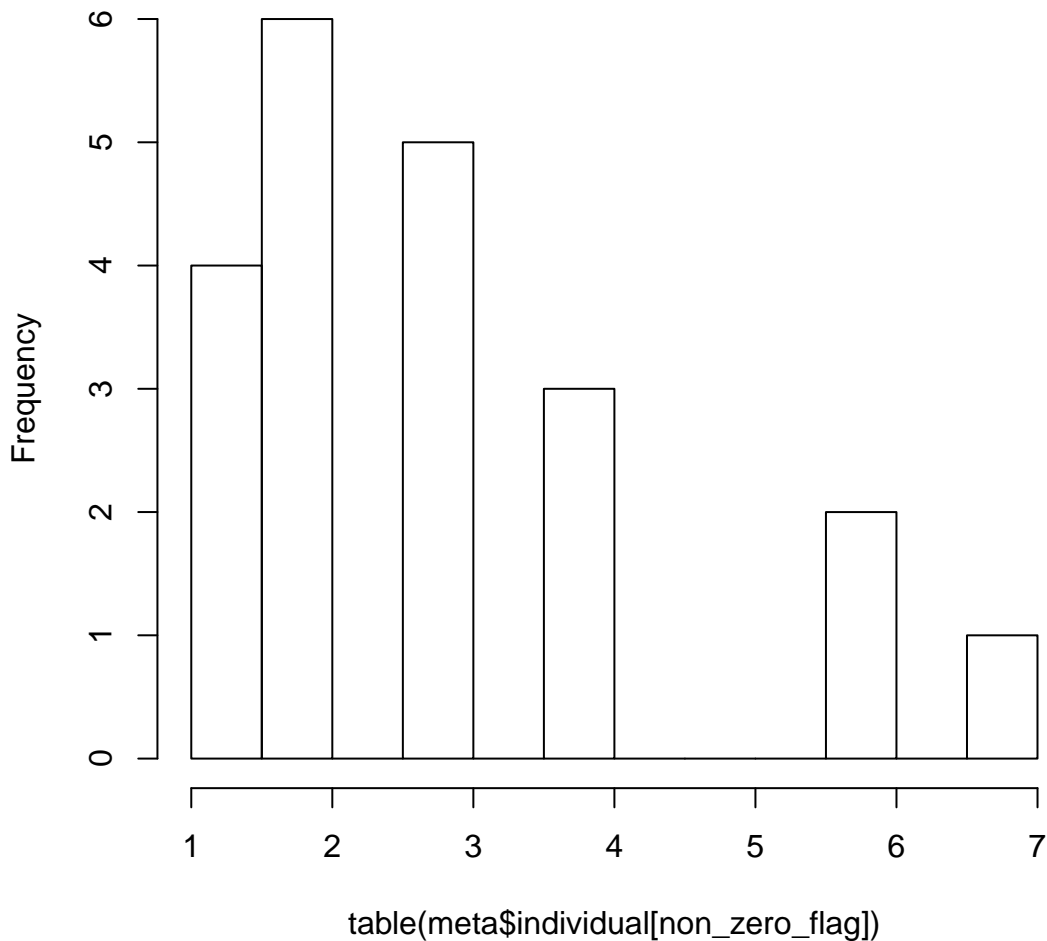
# KSless nonsig: individual expression cell count of gene#36



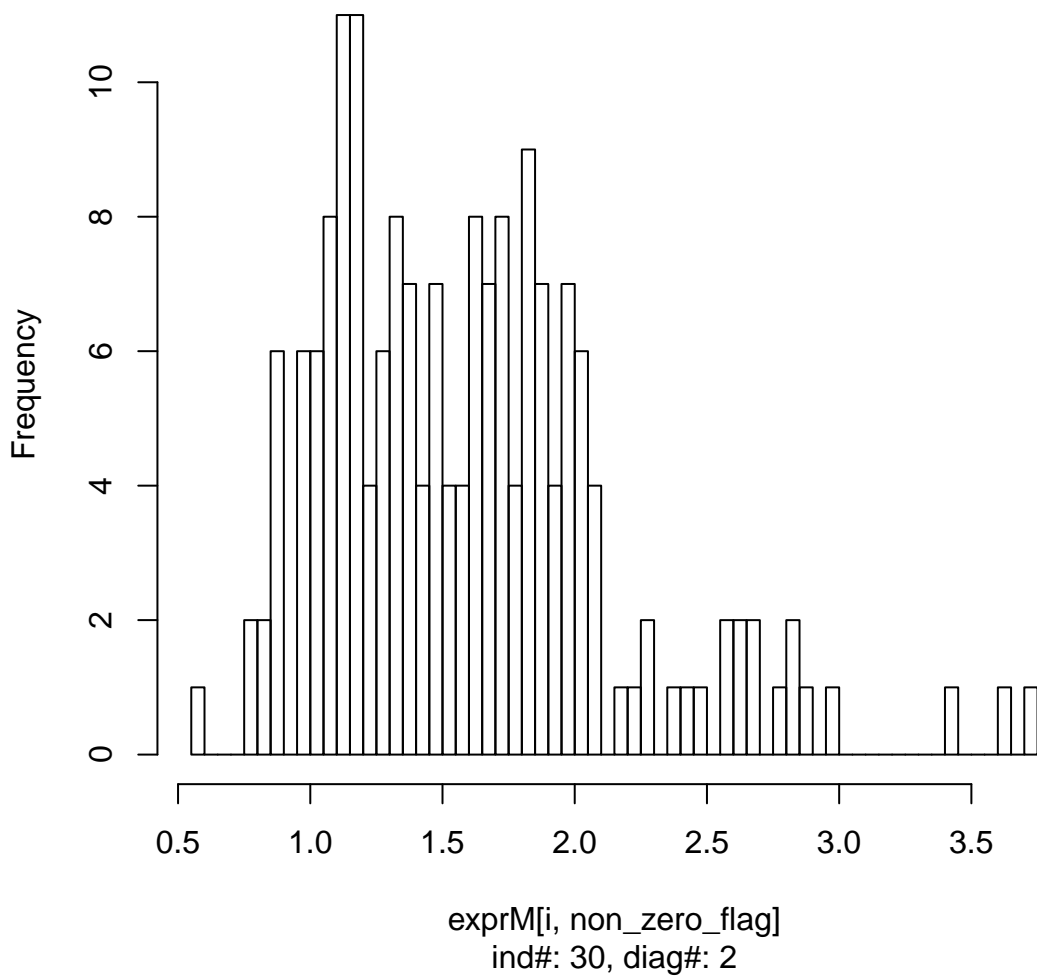
S nonsig: log expression of gene#37, pval ob=0.9988, non-zero n



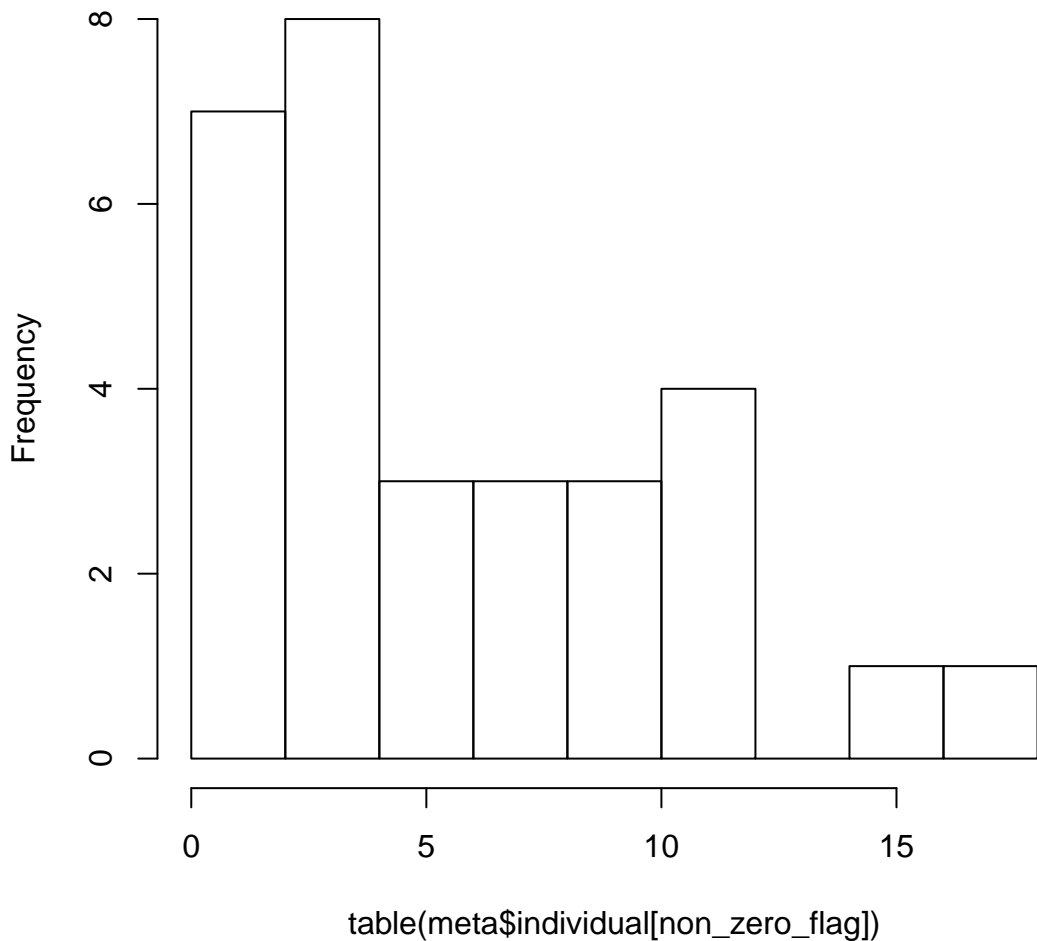
# KSless nonsig: individual expression cell count of gene#37



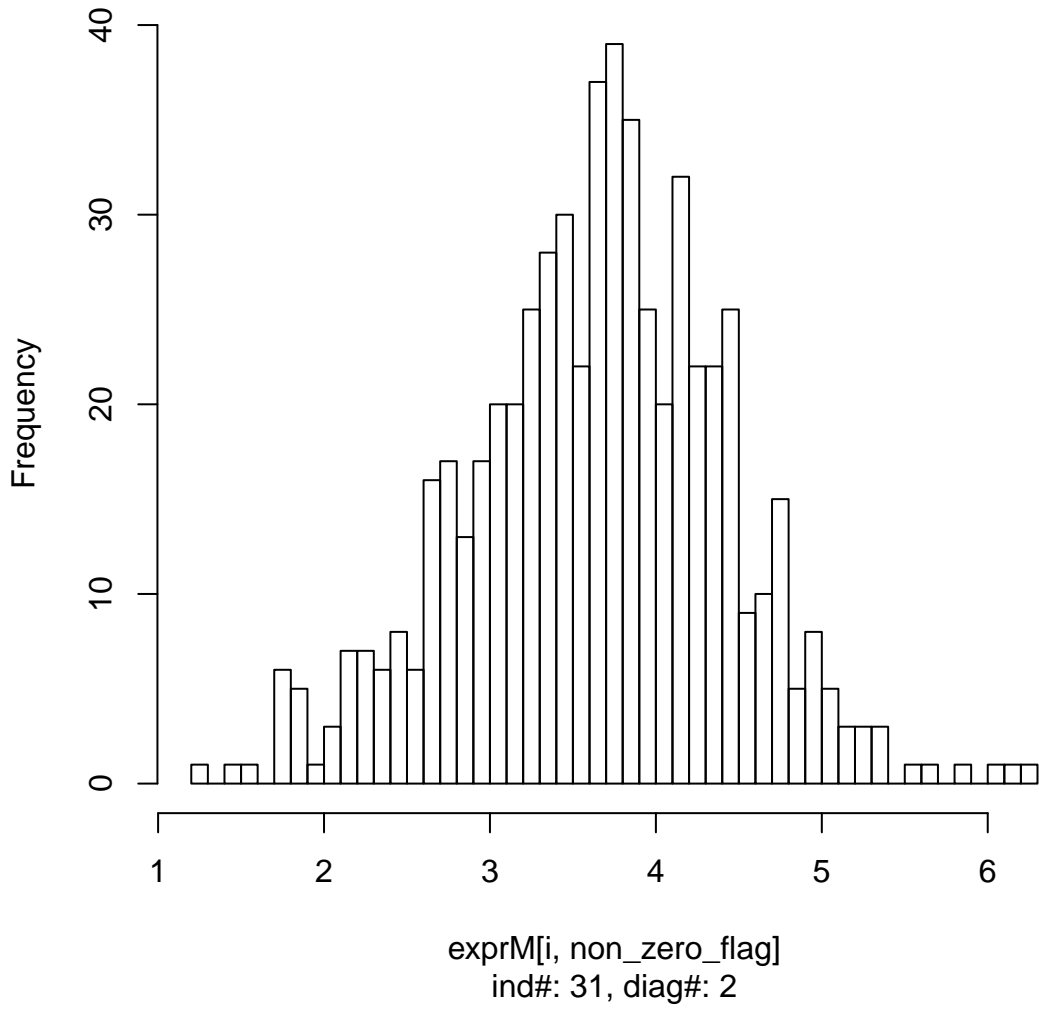
nsig: log expression of gene#44, pval ob=0.6241, non-zero nu



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

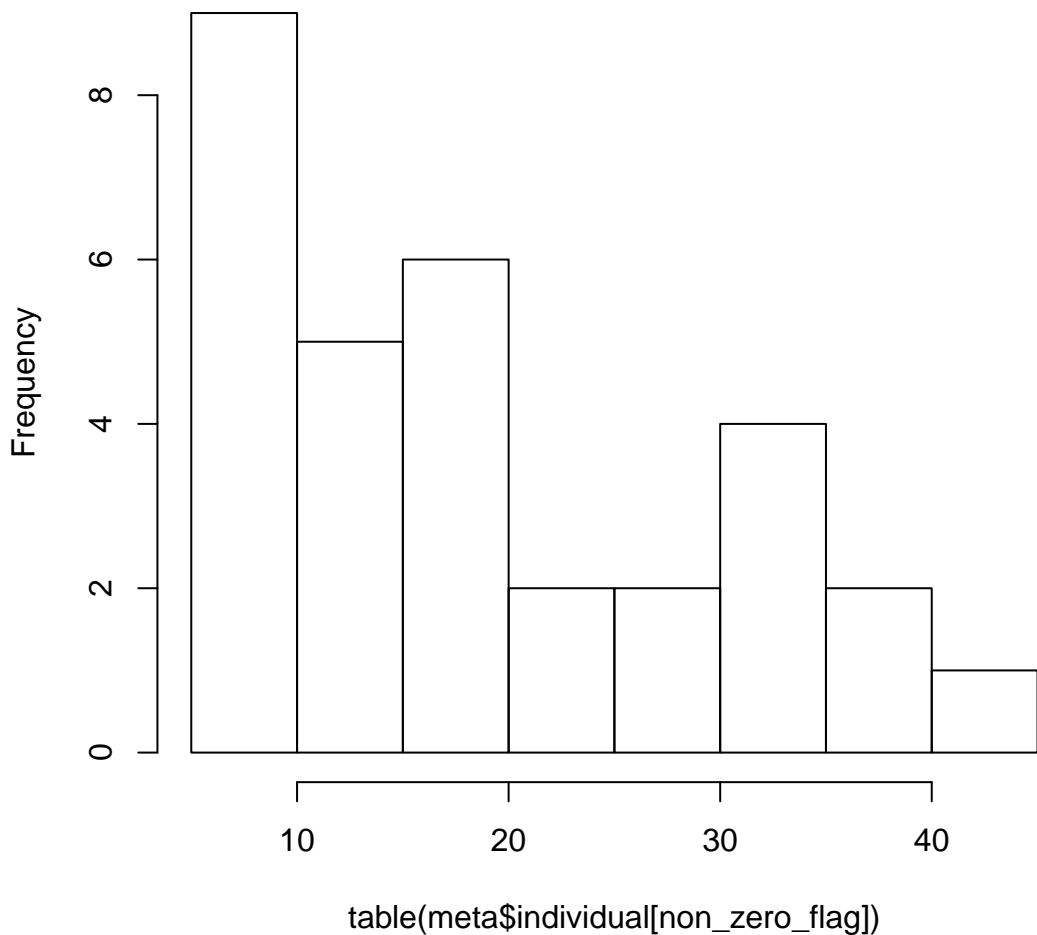


nsig: log expression of gene#45, pval ob=0.1054, non-zero nu

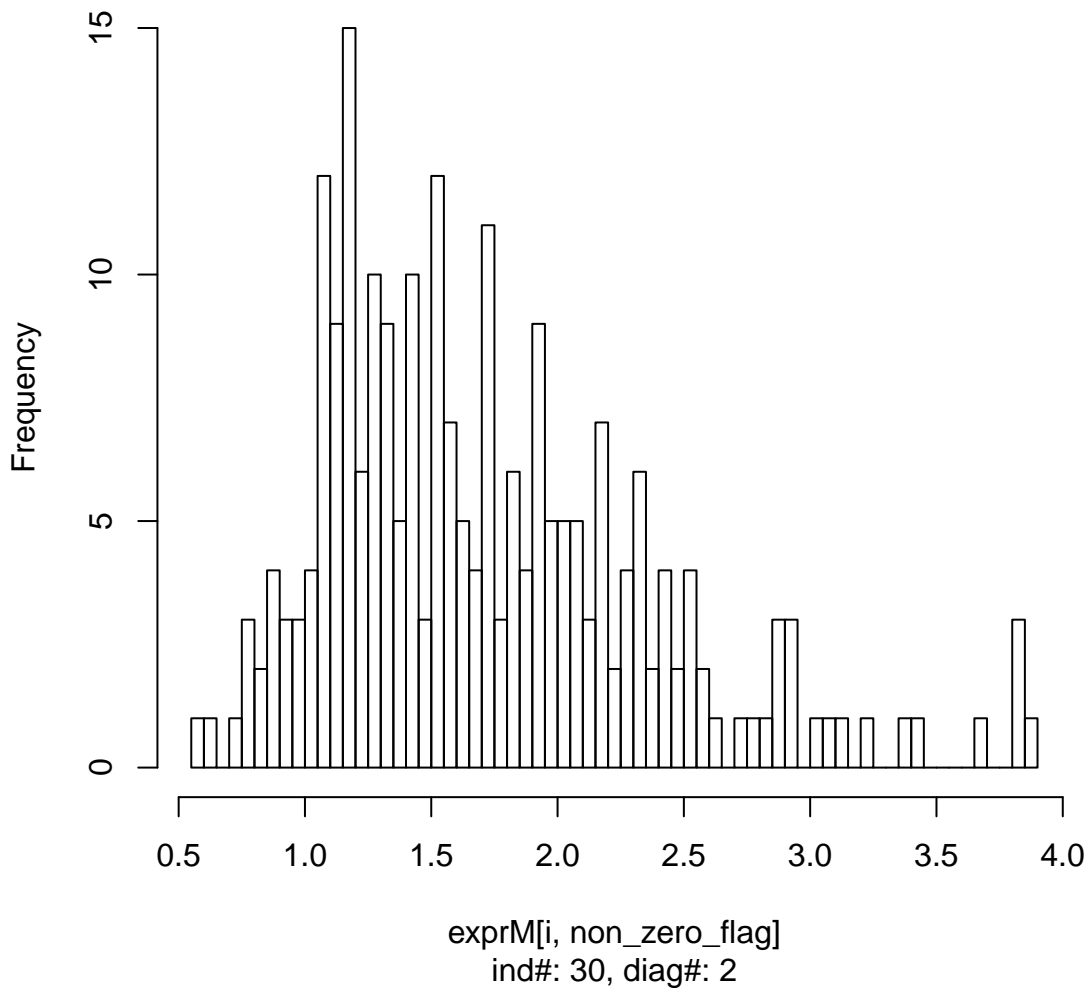




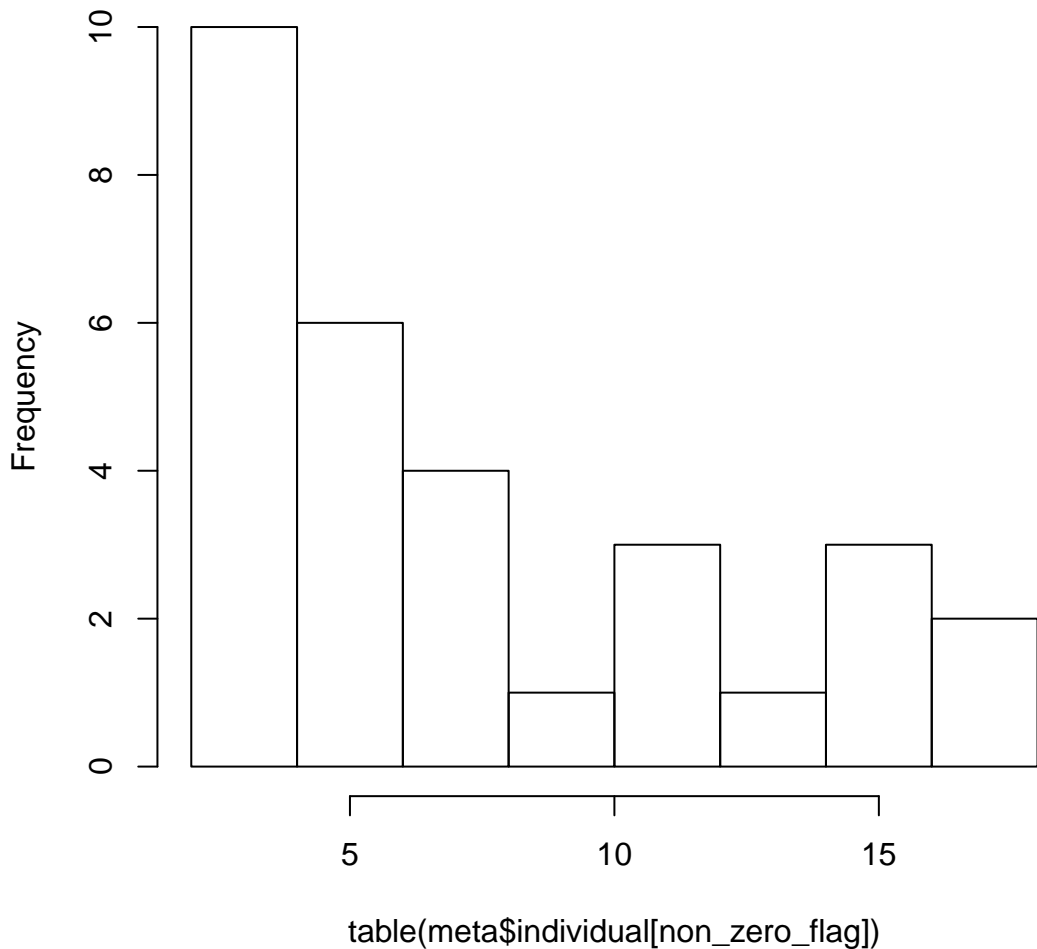
# KSless nonsig: individual expression cell count of gene#45



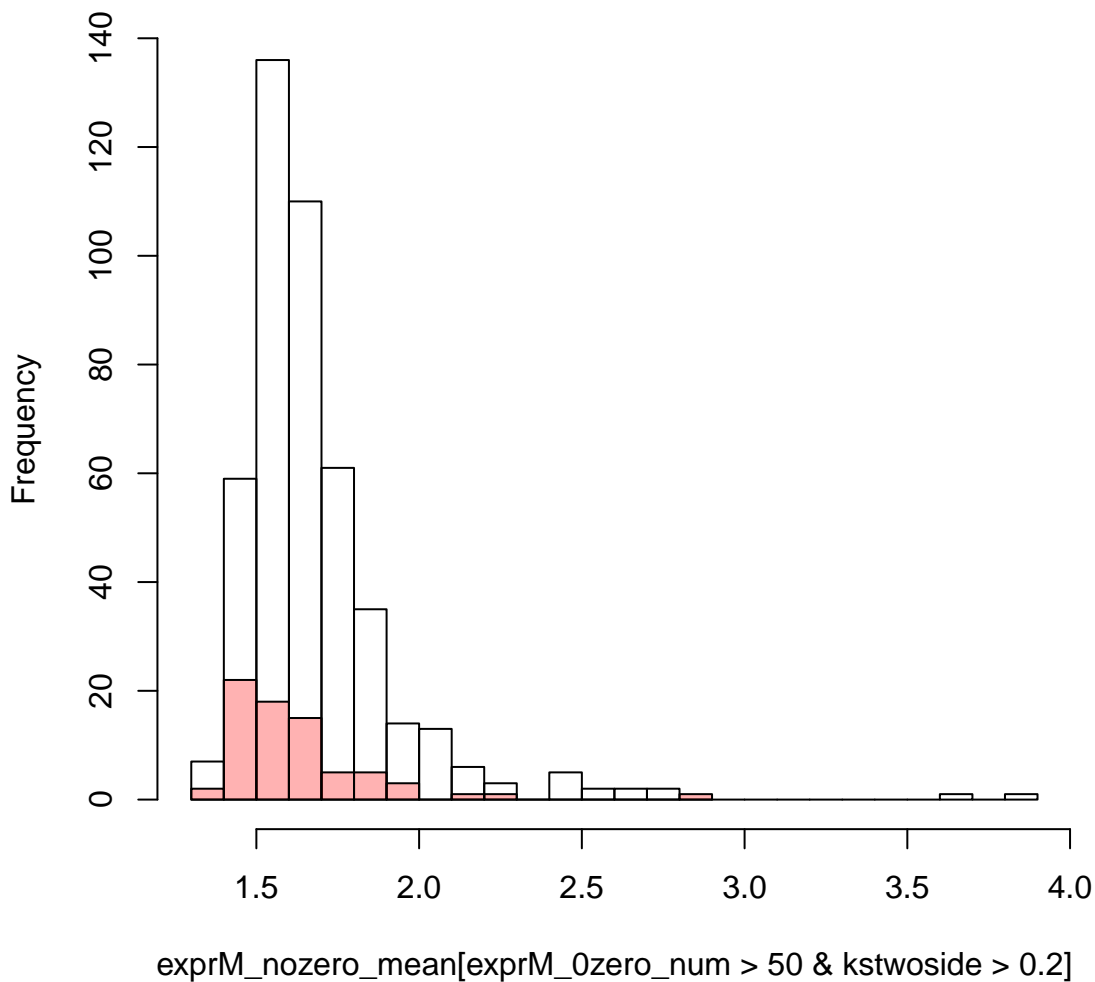
**nsig: log expression of gene#48, pval ob=0.3716, non-zero nu**



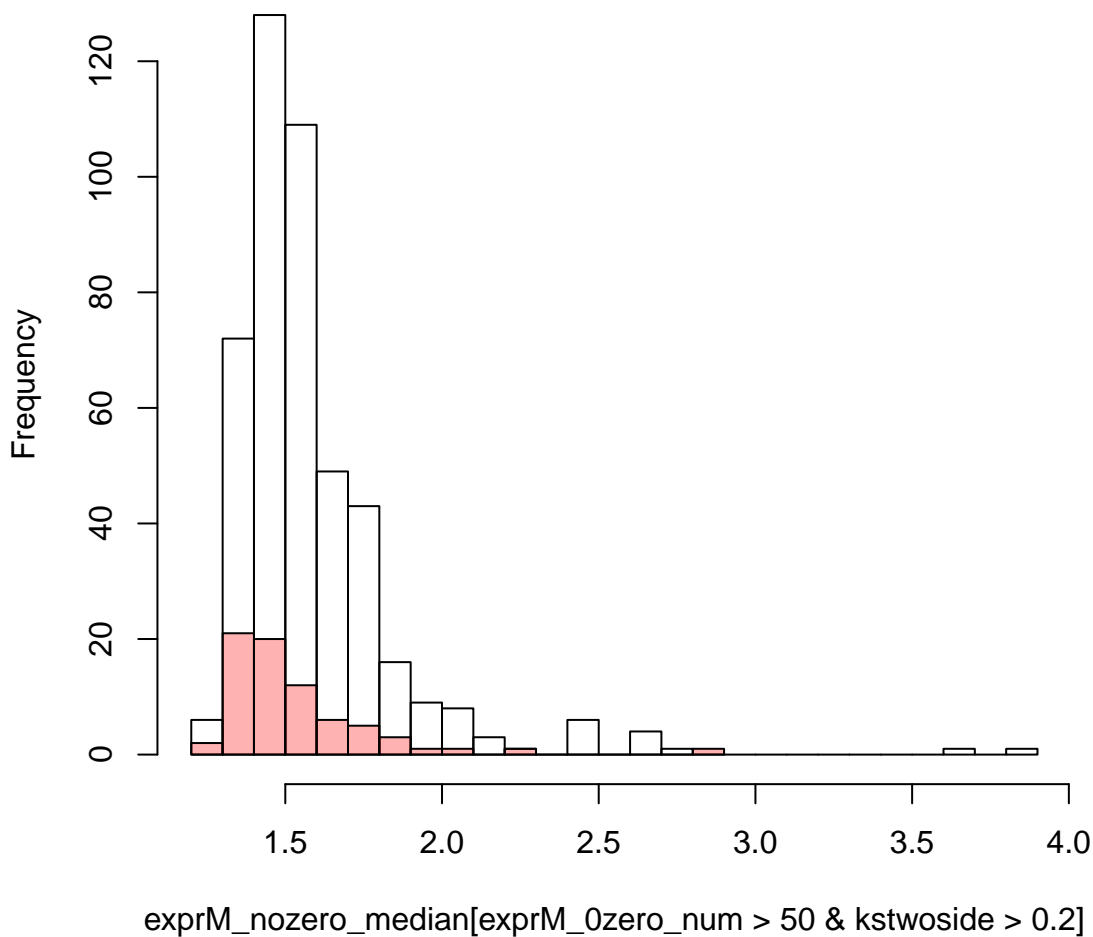
# KSless nonsig: individual expression cell count of gene#48



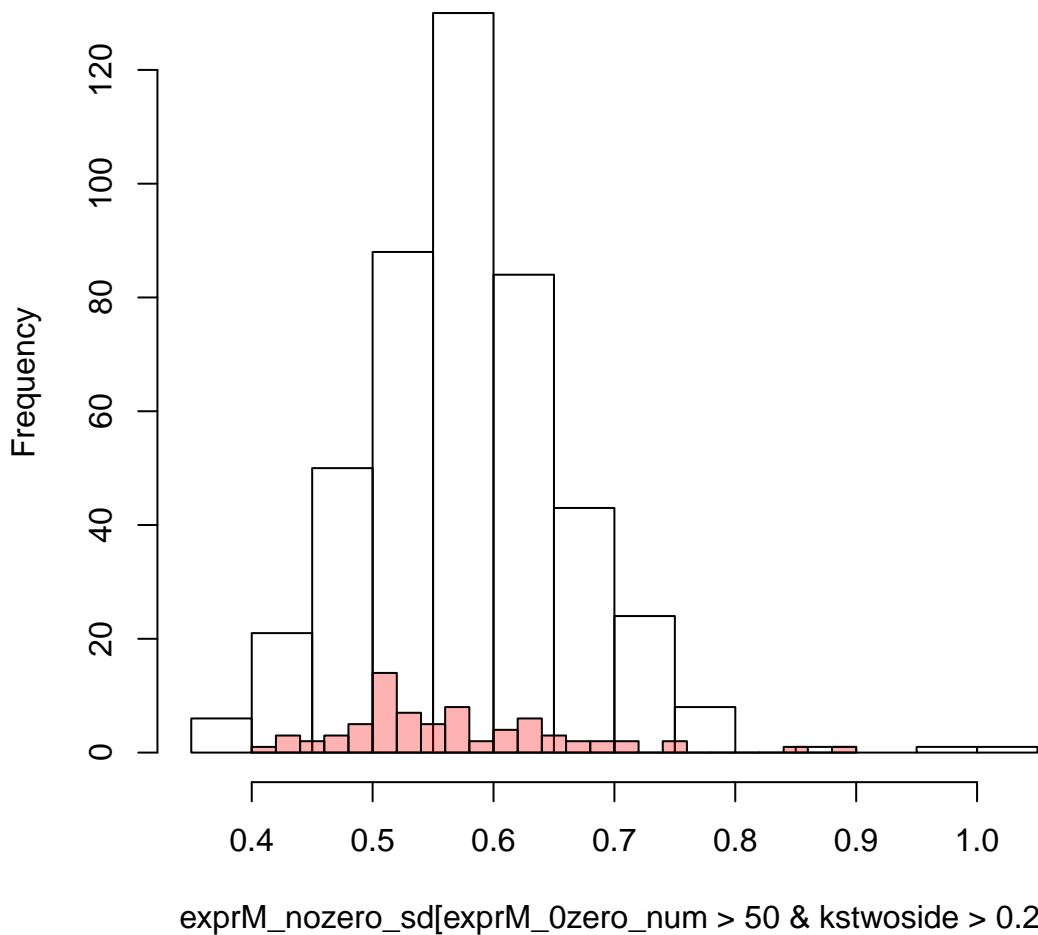
ogram of exprM\_nozero\_mean[exprM\_0zero\_num > 50 & kstwosi



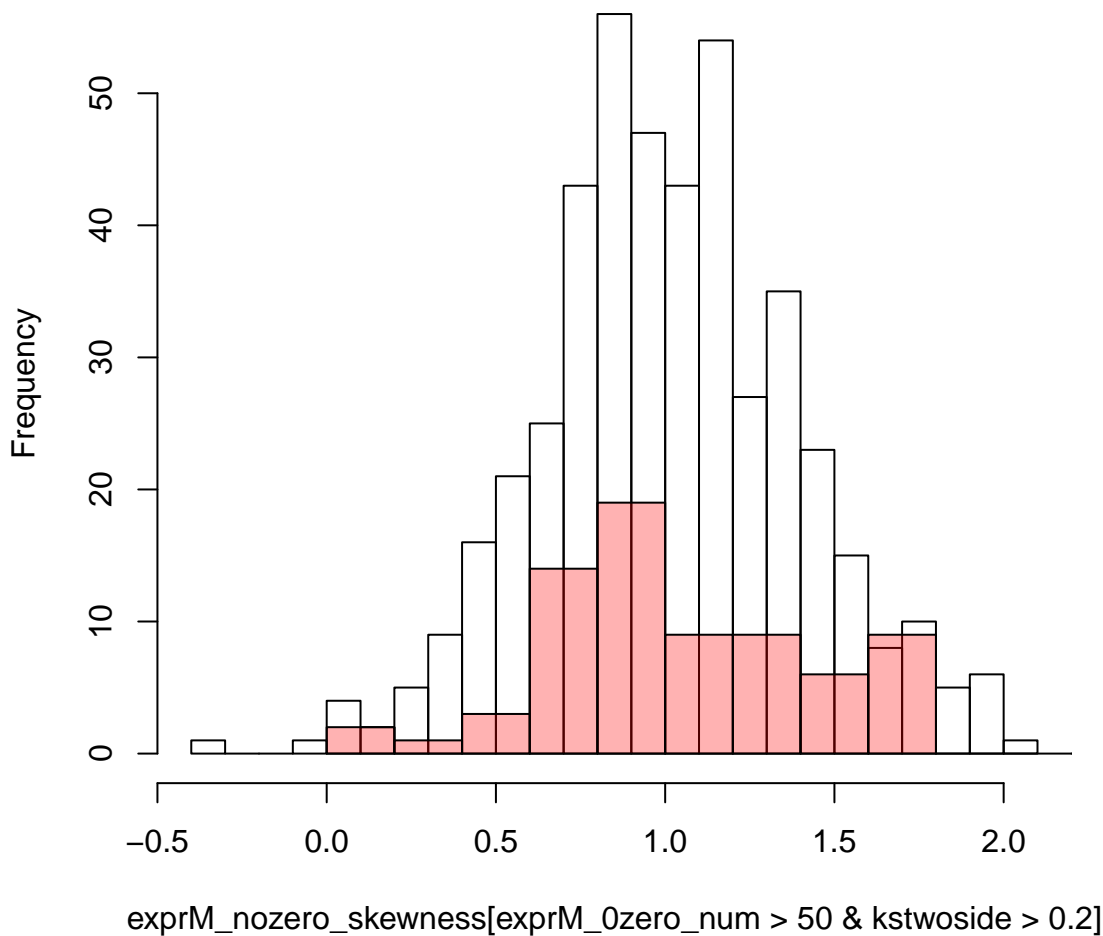
ogram of exprM\_nozero\_median[exprM\_0zero\_num > 50 & kstvos



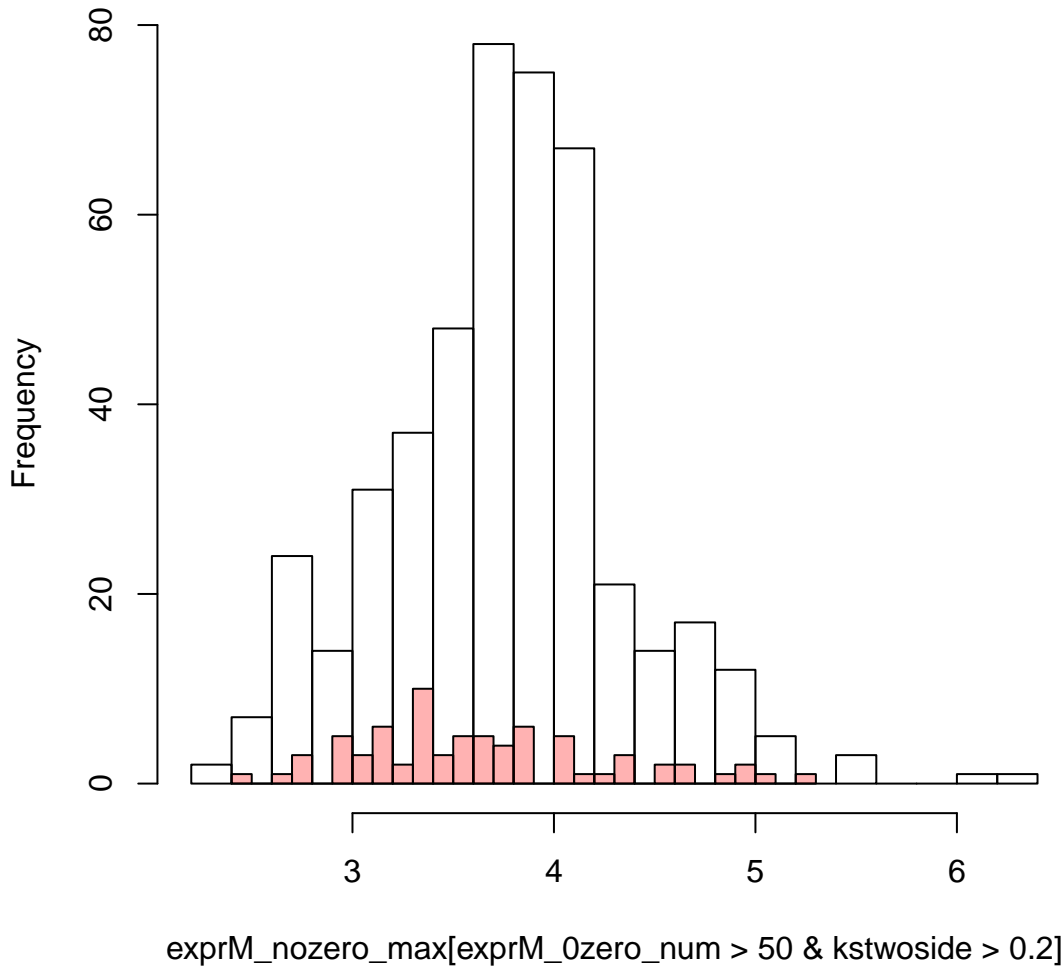
Histogram of `exprM_nozero_sd[exprM_0zero_num > 50 & kstwside`



ogram of `exprM_nzero_skewness[exprM_0zero_num > 50 & kstwo`

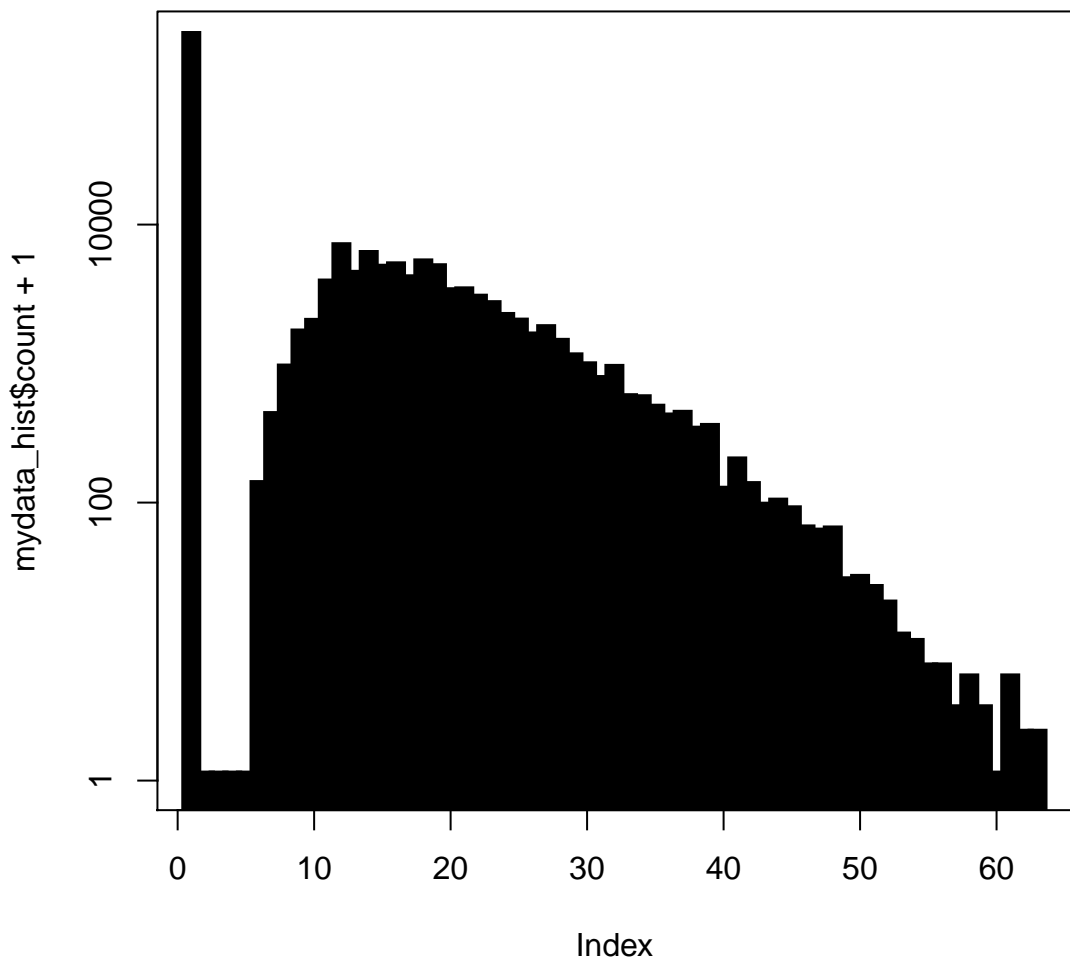


Histogram of exprM\_nozero\_max[exprM\_0zero\_num > 50 & kstwsio

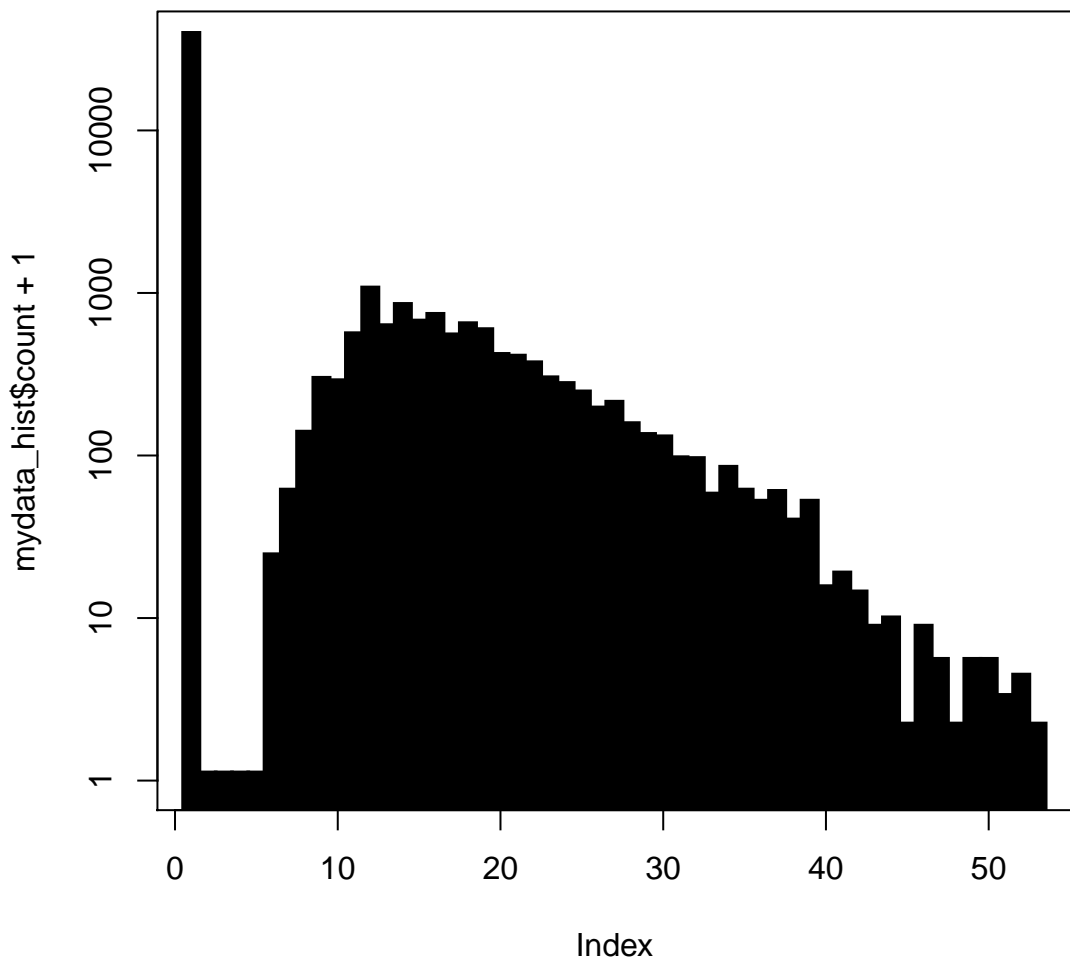




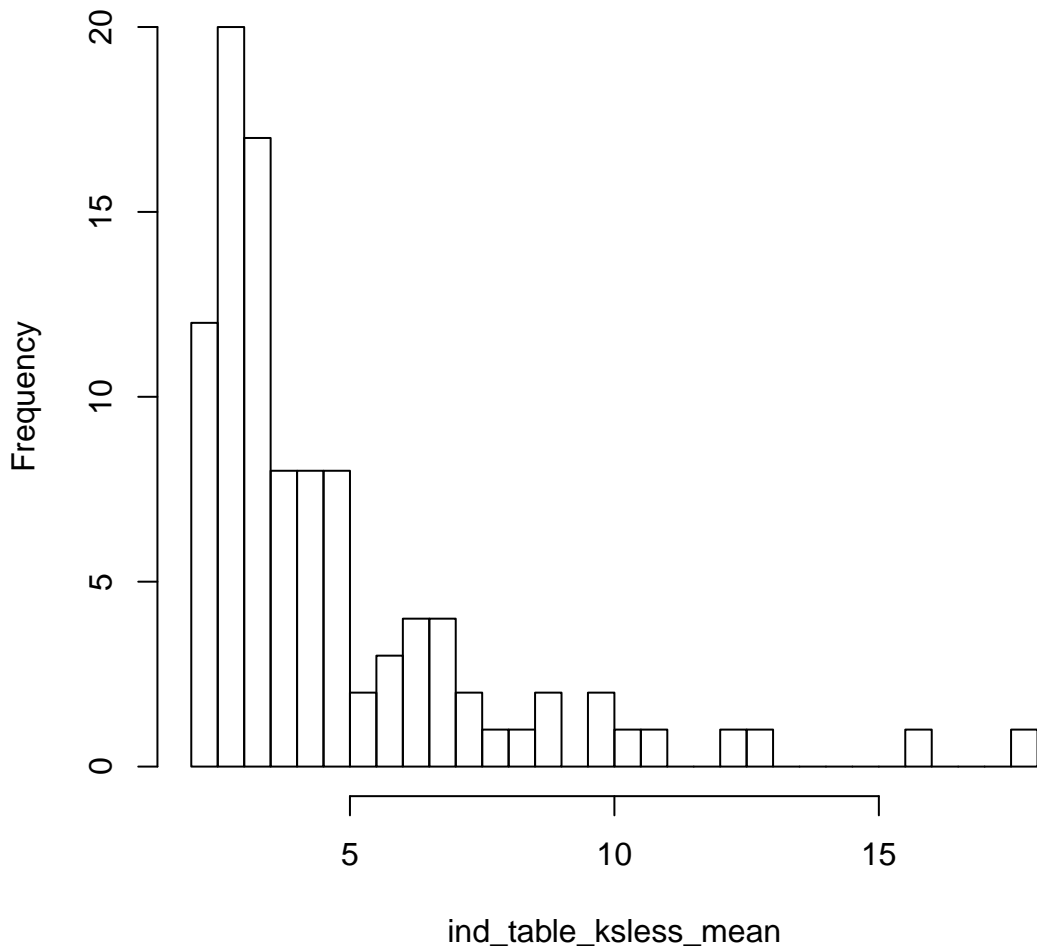
genes  $\log(\text{expression} + 1)$  with least 50 cell expression and kstwosi



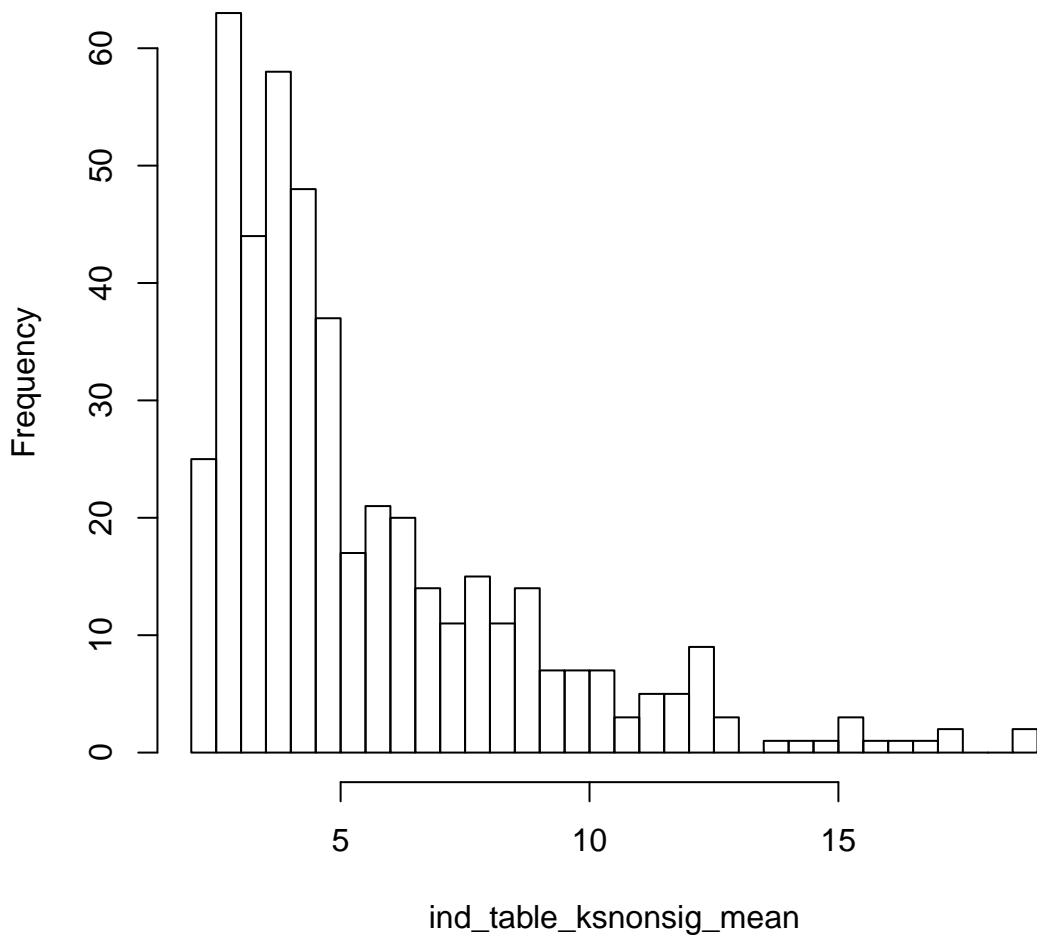
nes  $\log(\text{expression} + 1)$  with least 50 cell expression and kstwo



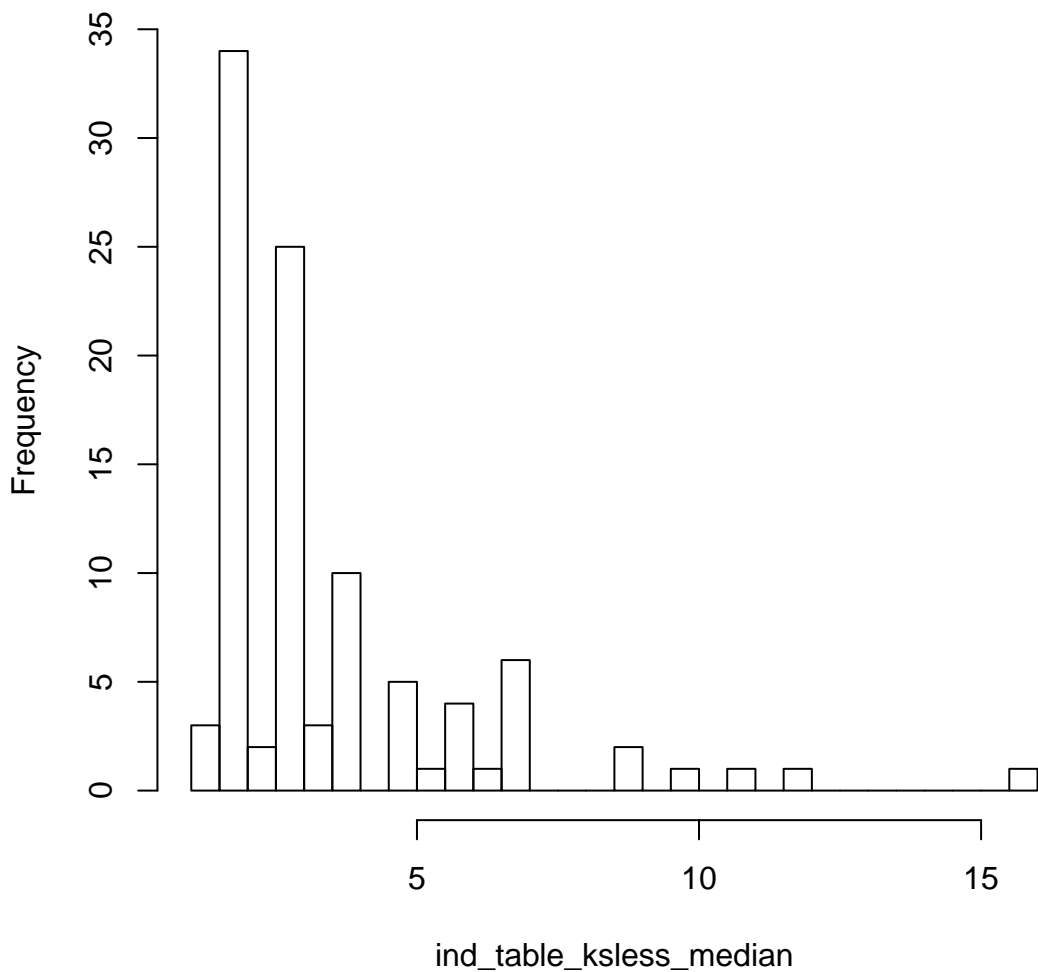
**Histogram of ind\_table\_ksless\_mean**



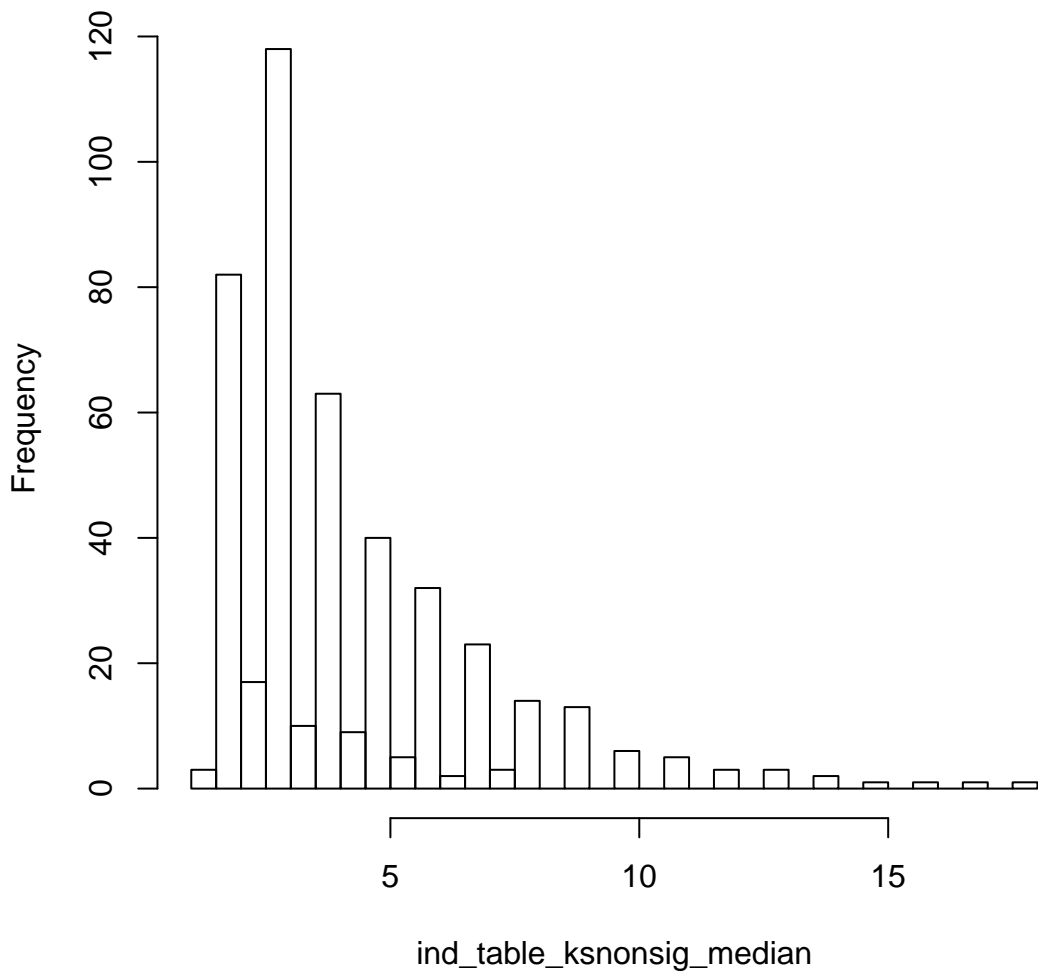
**Histogram of ind\_table\_ksnonsig\_mean**



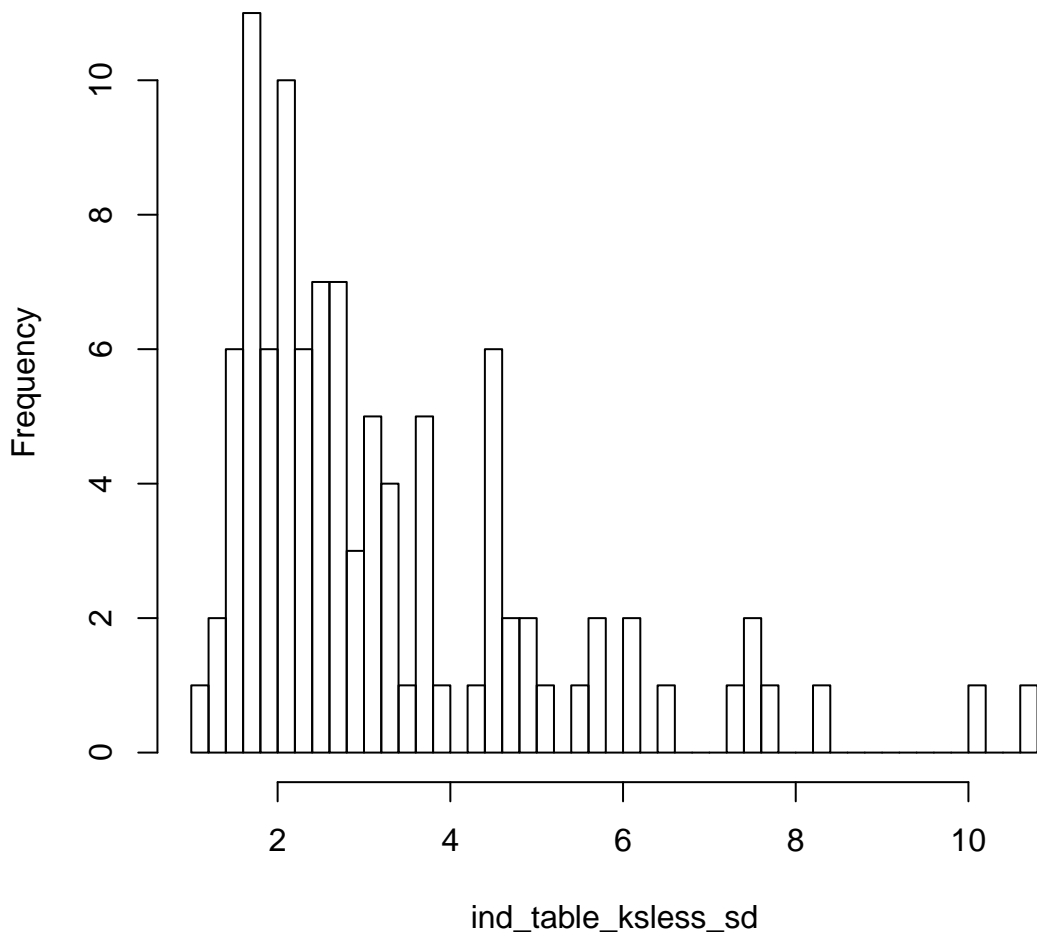
**Histogram of ind\_table\_ksless\_median**



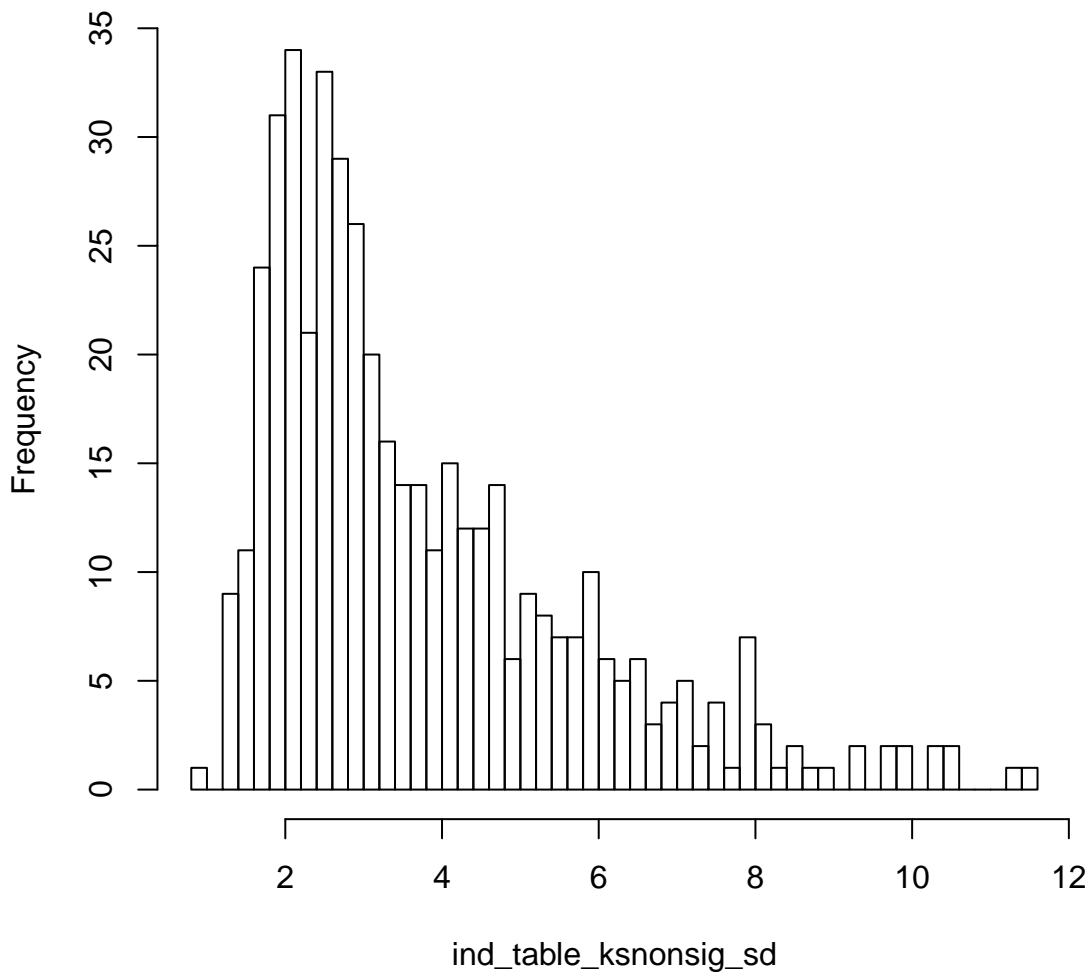
**Histogram of ind\_table\_ksnonsig\_median**



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

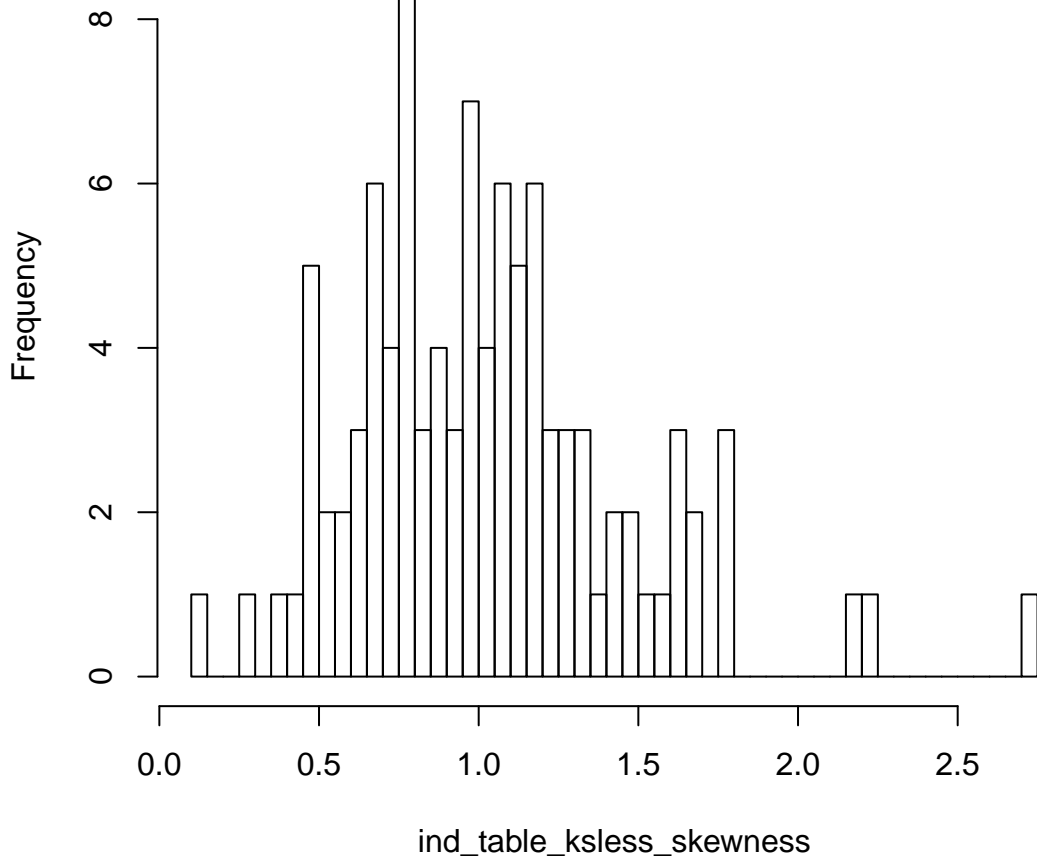


**Histogram of ind\_table\_ksnonsig\_sd**

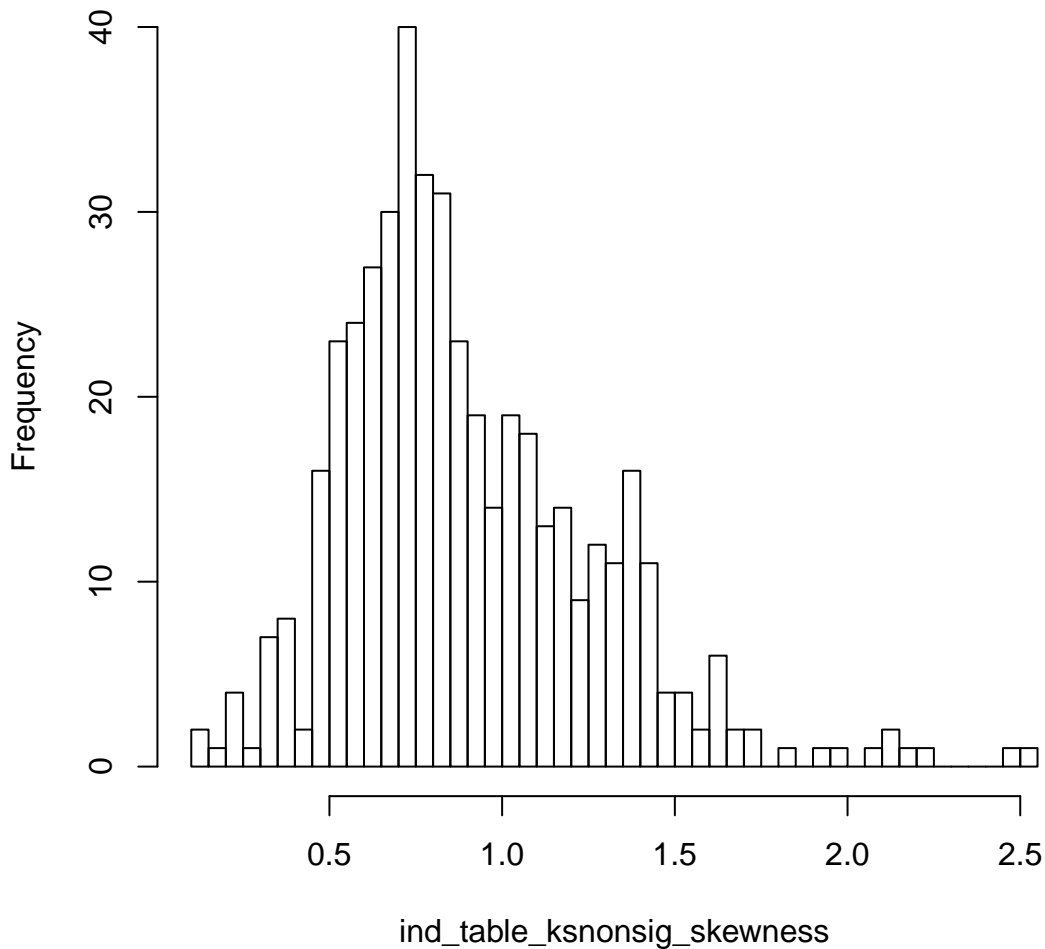




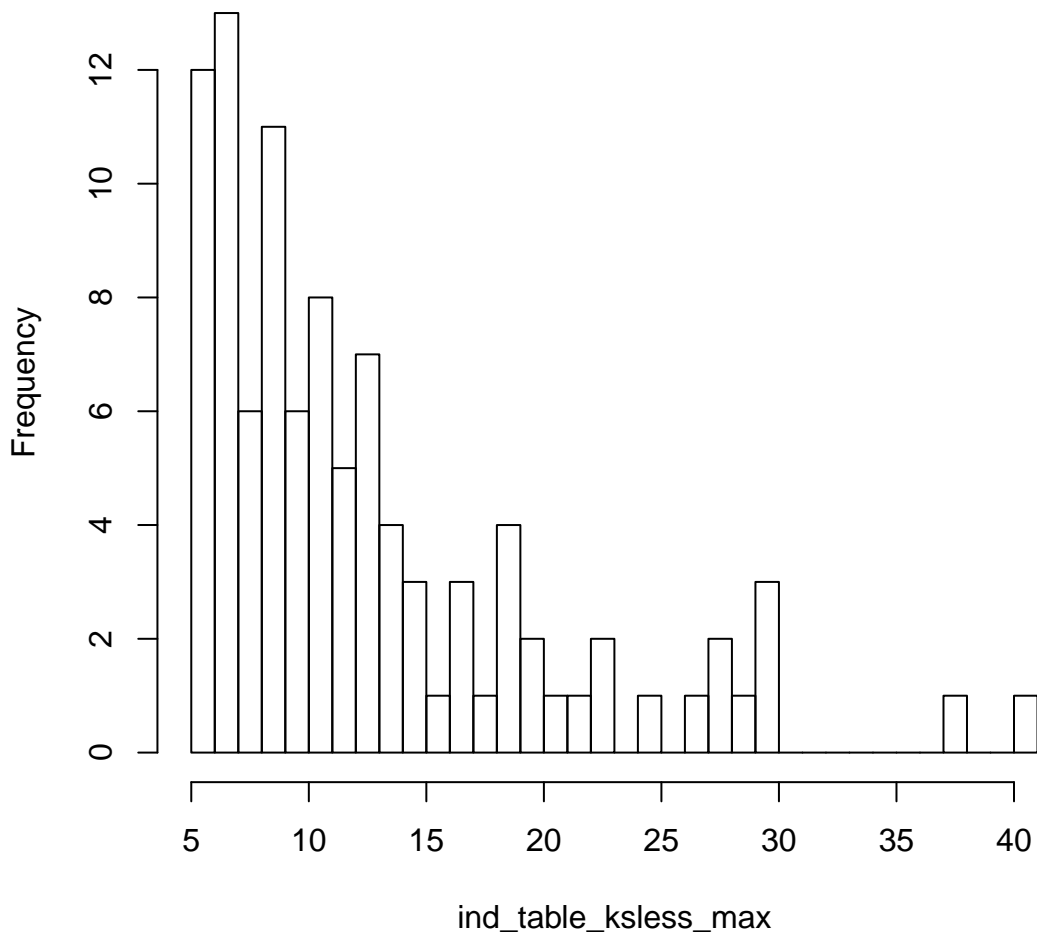
**Histogram of ind\_table\_ksless\_skewness**



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



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



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

