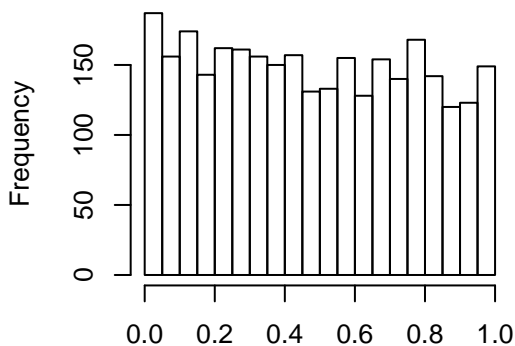
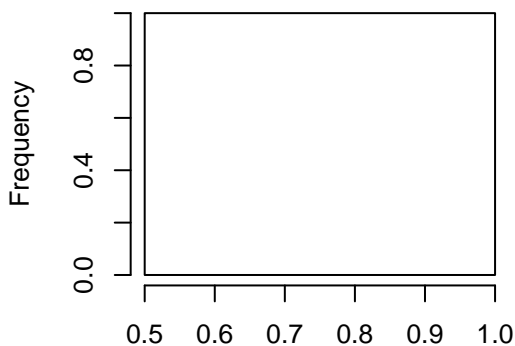


perm pvalues



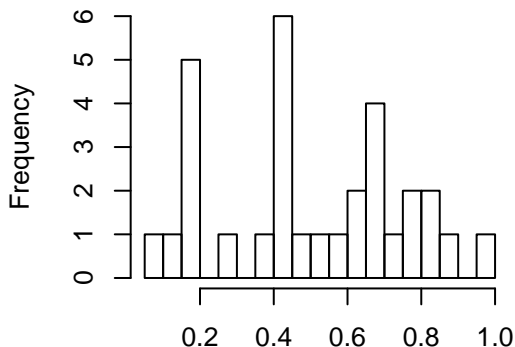
rawp
n=2989

s,rawM_0zero_num<max(20,min(rawM_0zero_num,100))



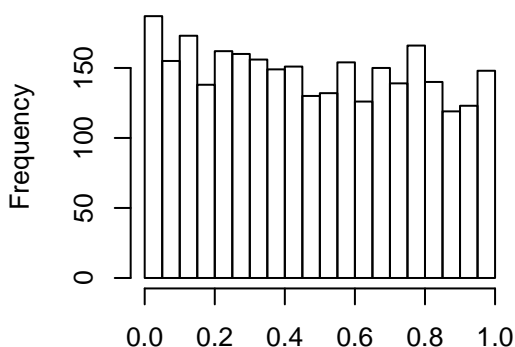
rawp[rawM_0zero_num < max(20, min(rawM_0zero_num, 100))]
n=1, ks_pval=1

perm pvalues,rawM_0zero_num >= 20



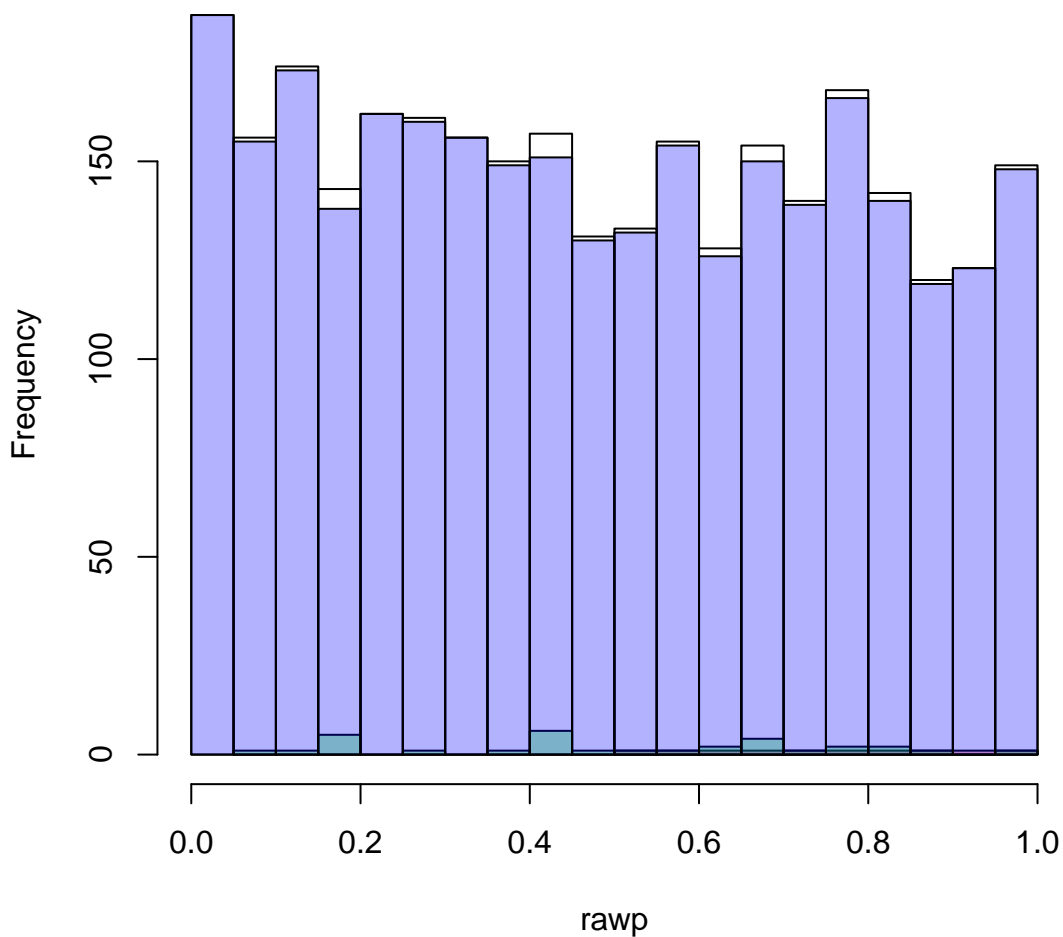
rawp[rawM_0zero_num >= 20 & rawM_0zero_num <= 100]
n=31, ks_pval=0.958596019986107

perm pvalues,rawM_0zero_num >= 100

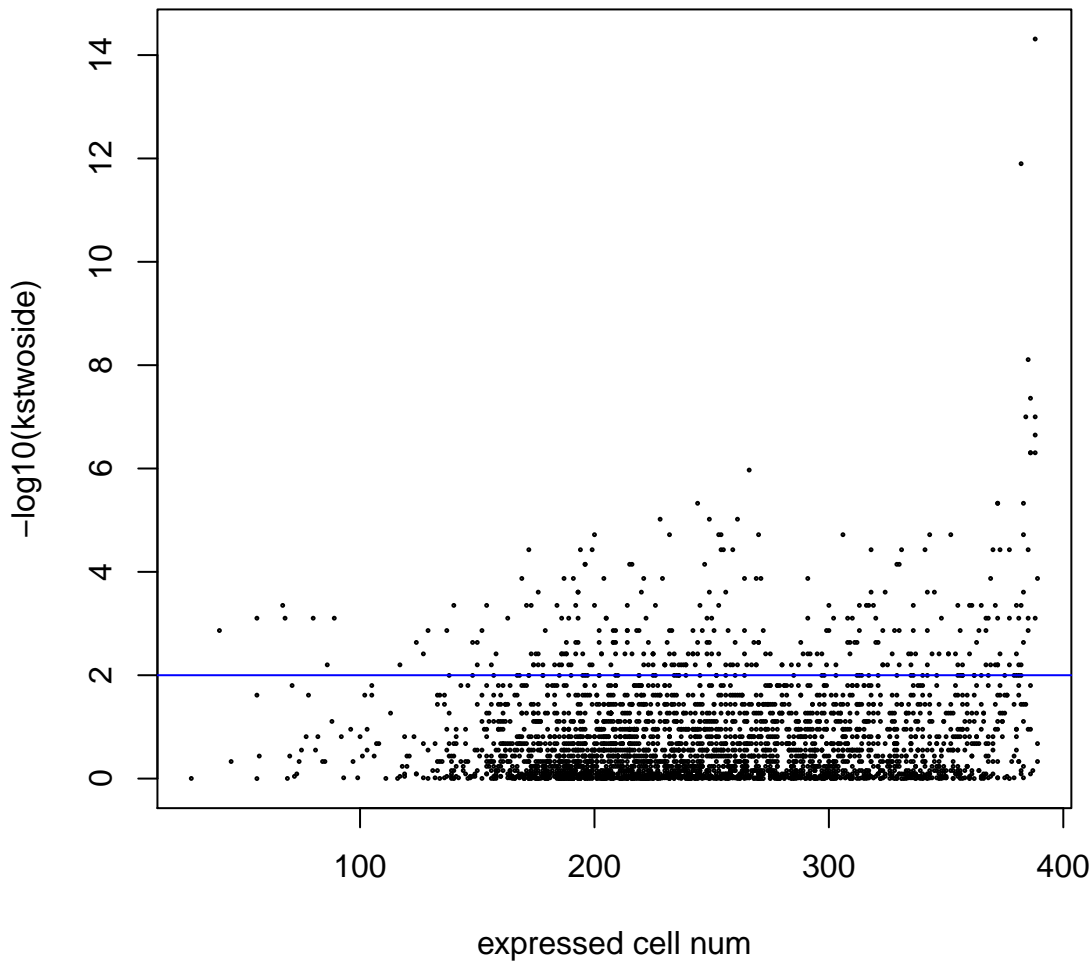


rawp[rawM_0zero_num >= 100]
n=2958, ks_pval=0.0481204865924416

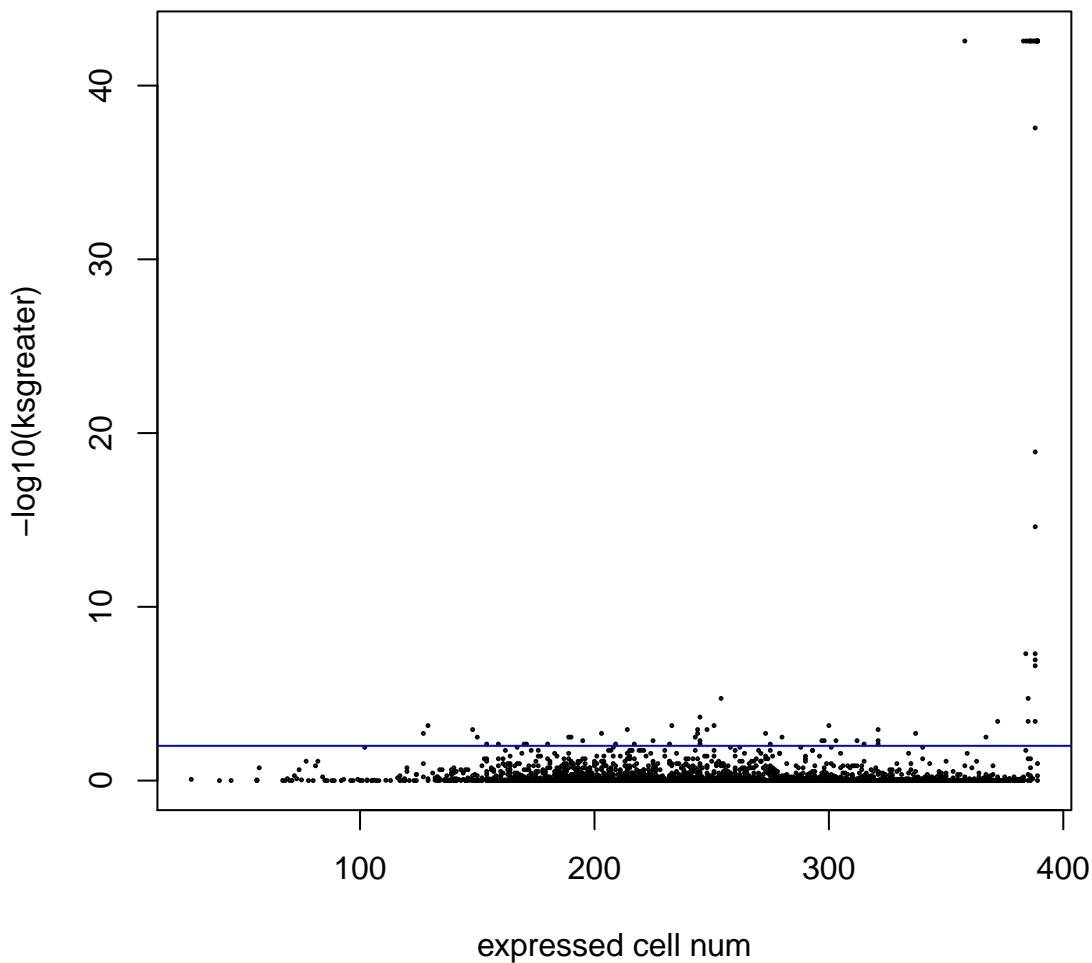
perm pvalues



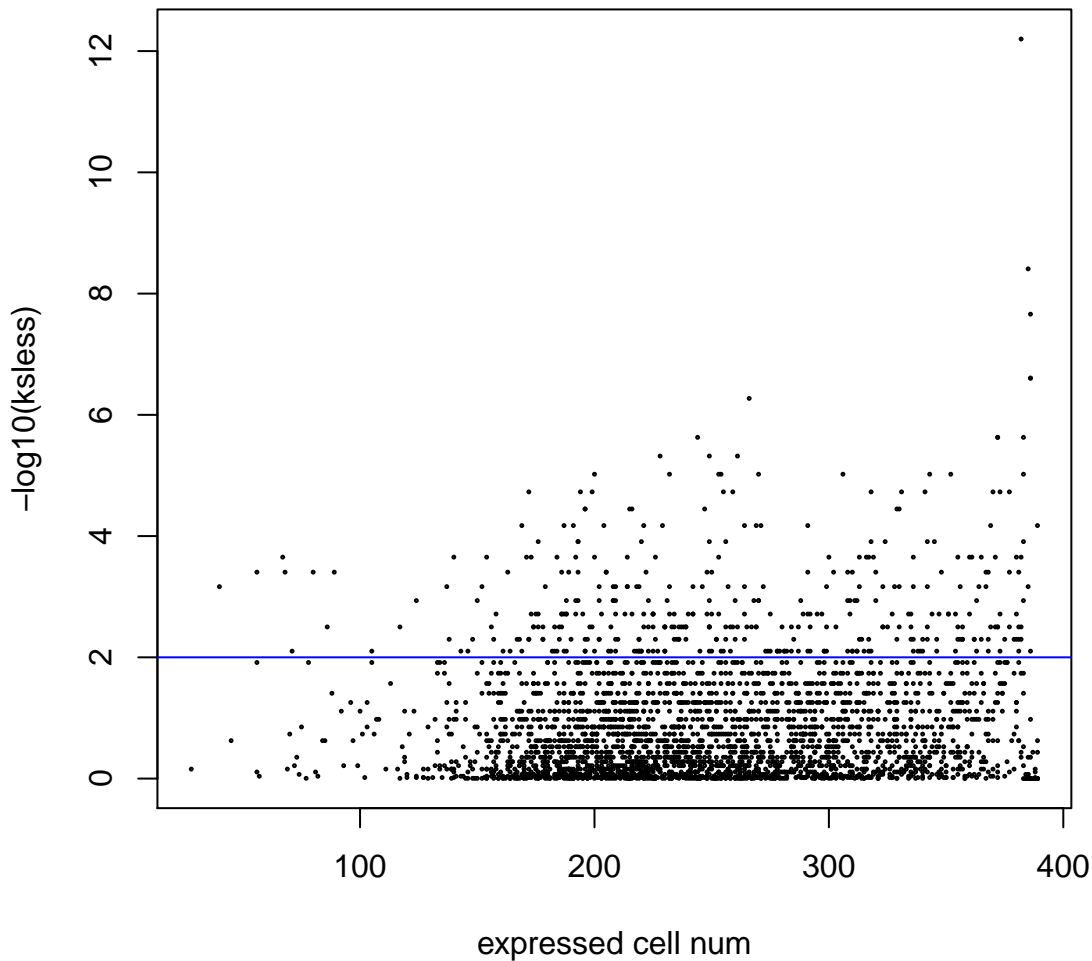
sig_KStwoside: 10.539%



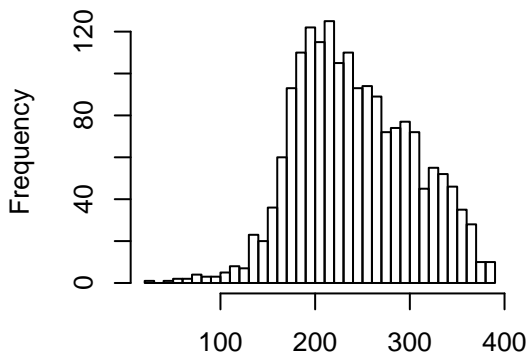
sig_KSgreater: 2.308%



sig_KSless: 13.014%

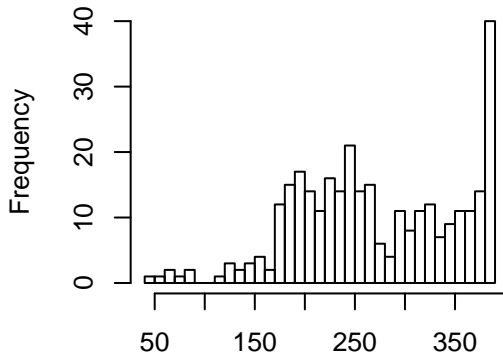


expression cell num,kstwside>0.2



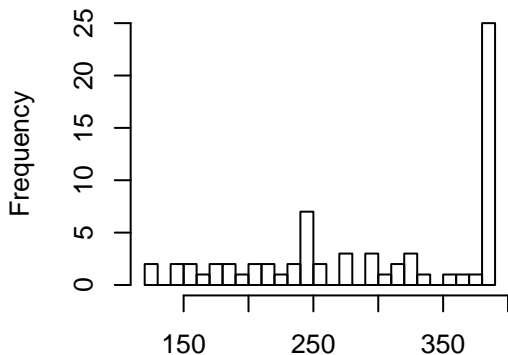
rawM_0zero_num[kstwside > 0.2]

expression cell num,kstwside<0.0



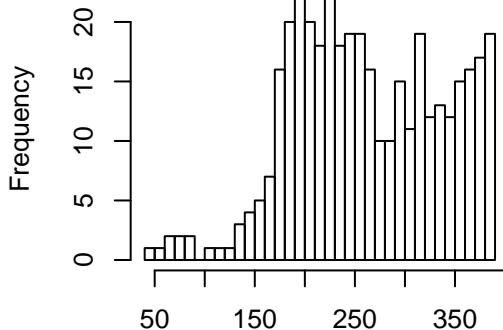
rawM_0zero_num[kstwside < 0.01]

expression cell num,ksgreater<0.0



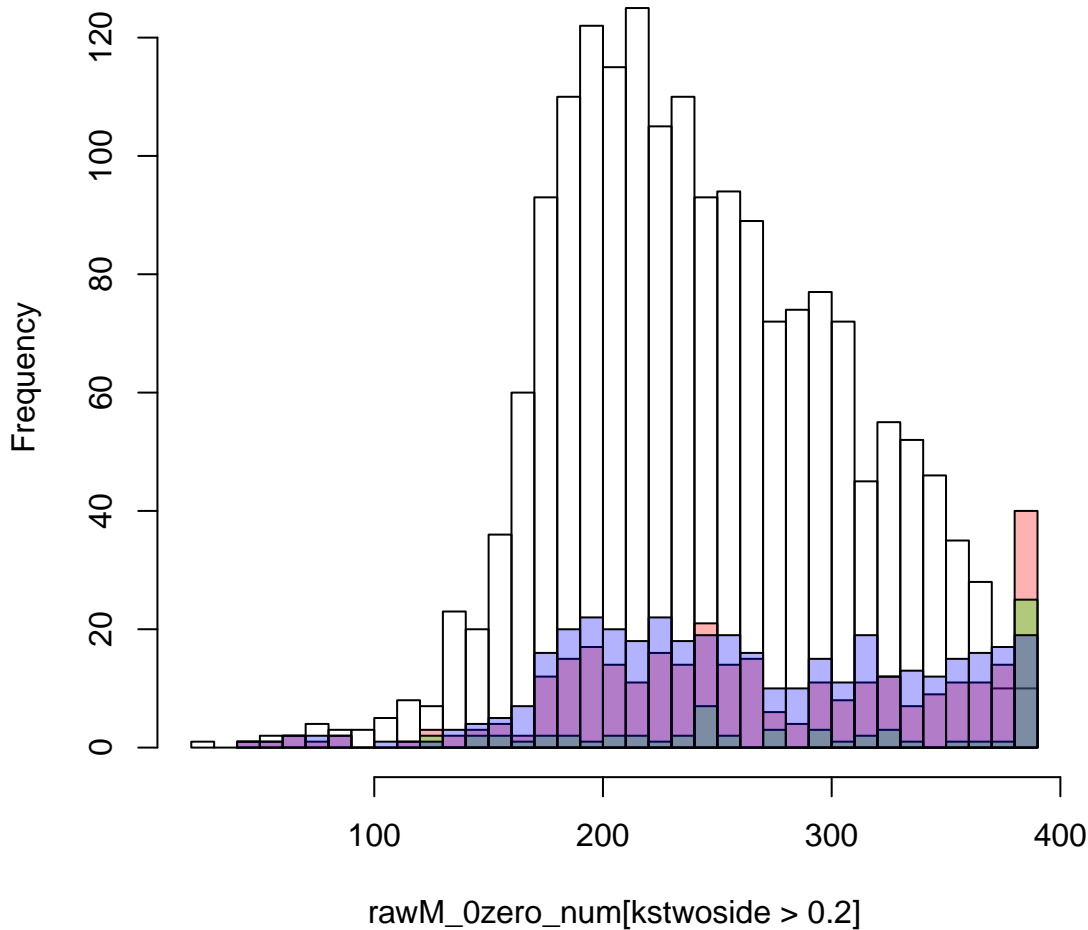
rawM_0zero_num[ksgreater < 0.01]

expression cell num,ksless<0.01

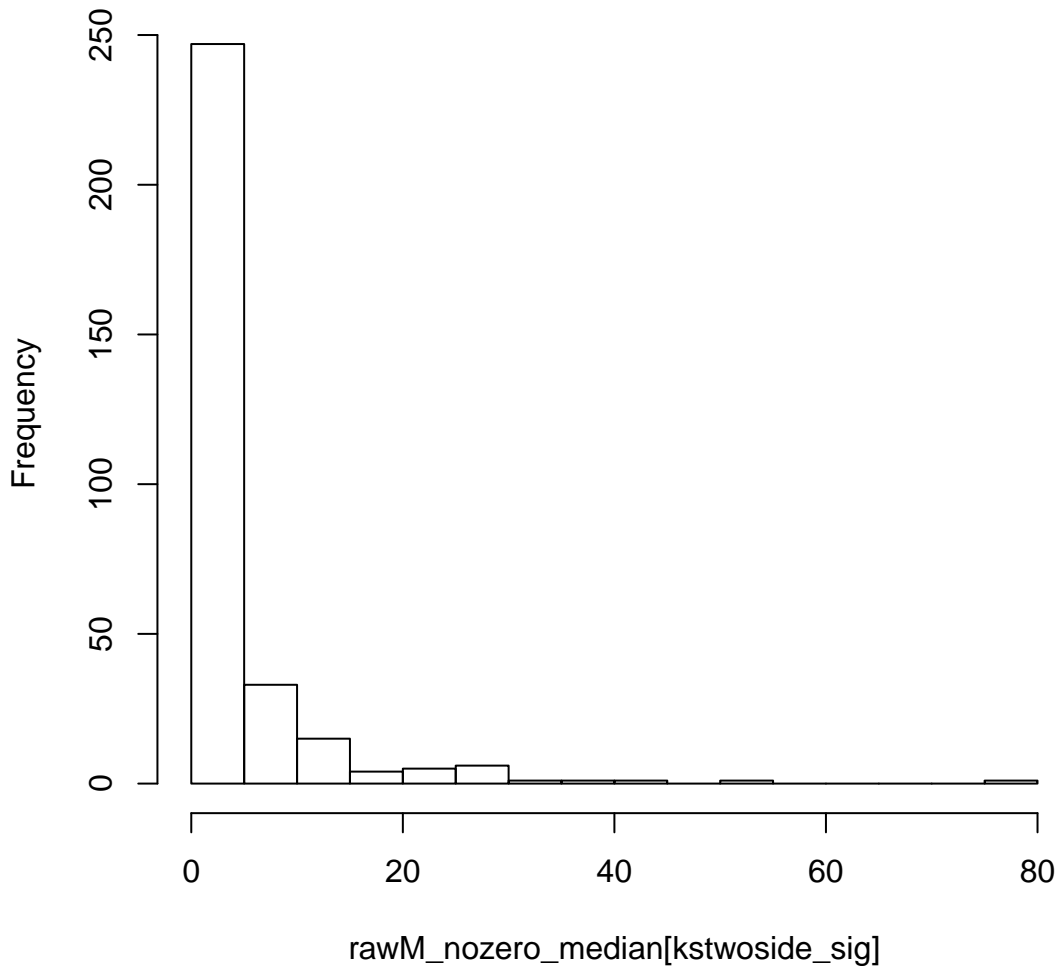


rawM_0zero_num[ksless < 0.01]

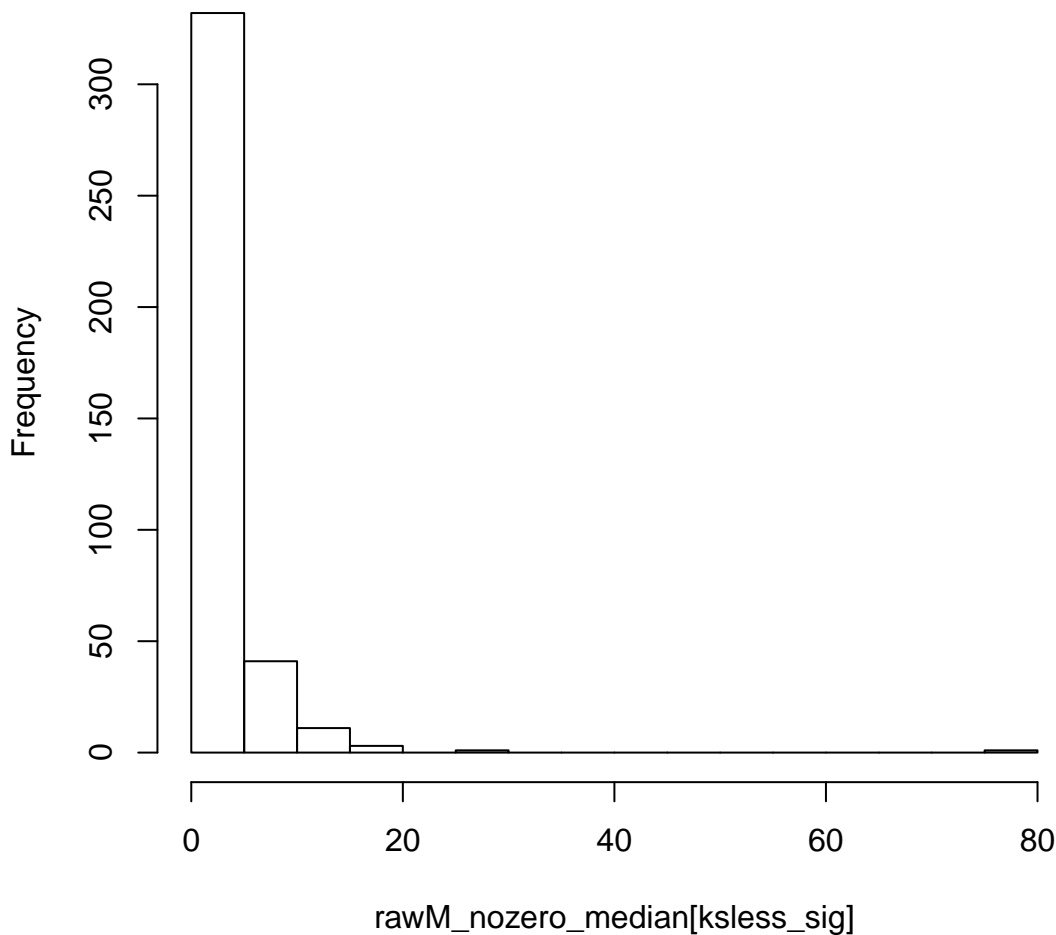
expression cell num



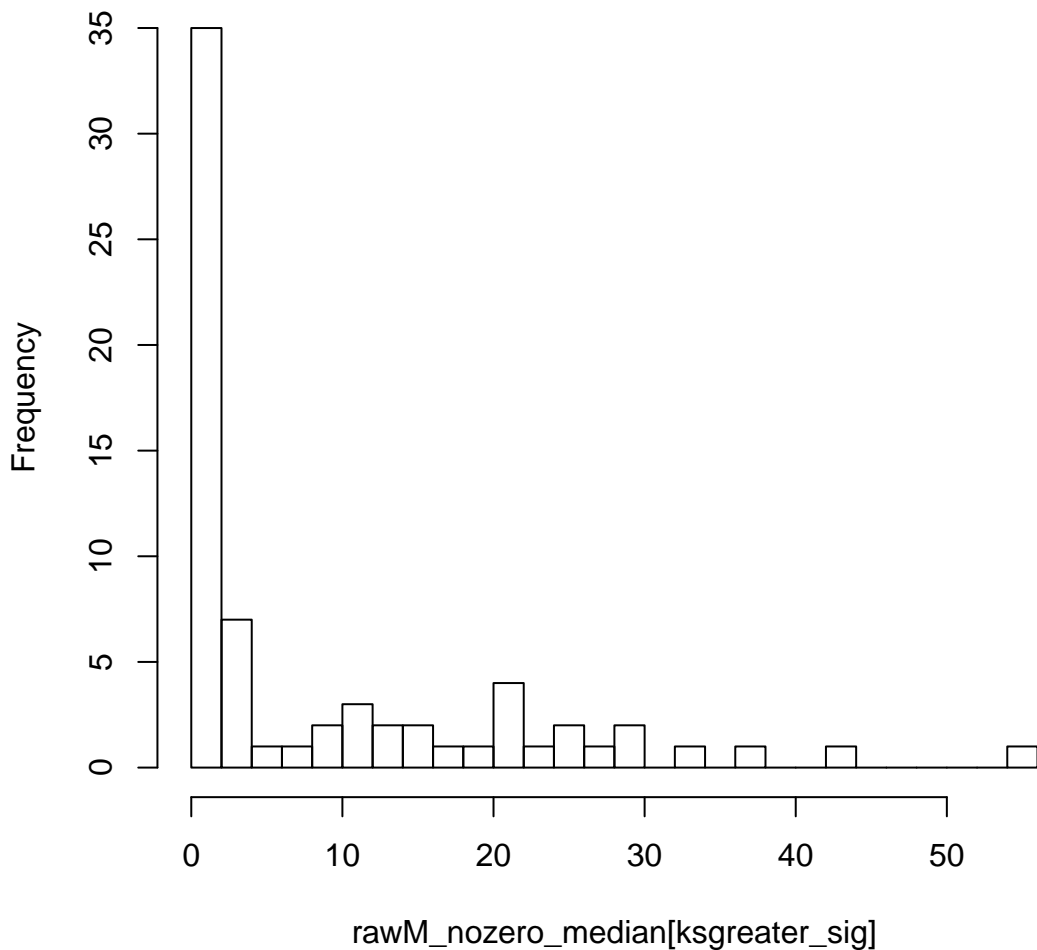
median of nozero log-express of genes, kstwoside sig



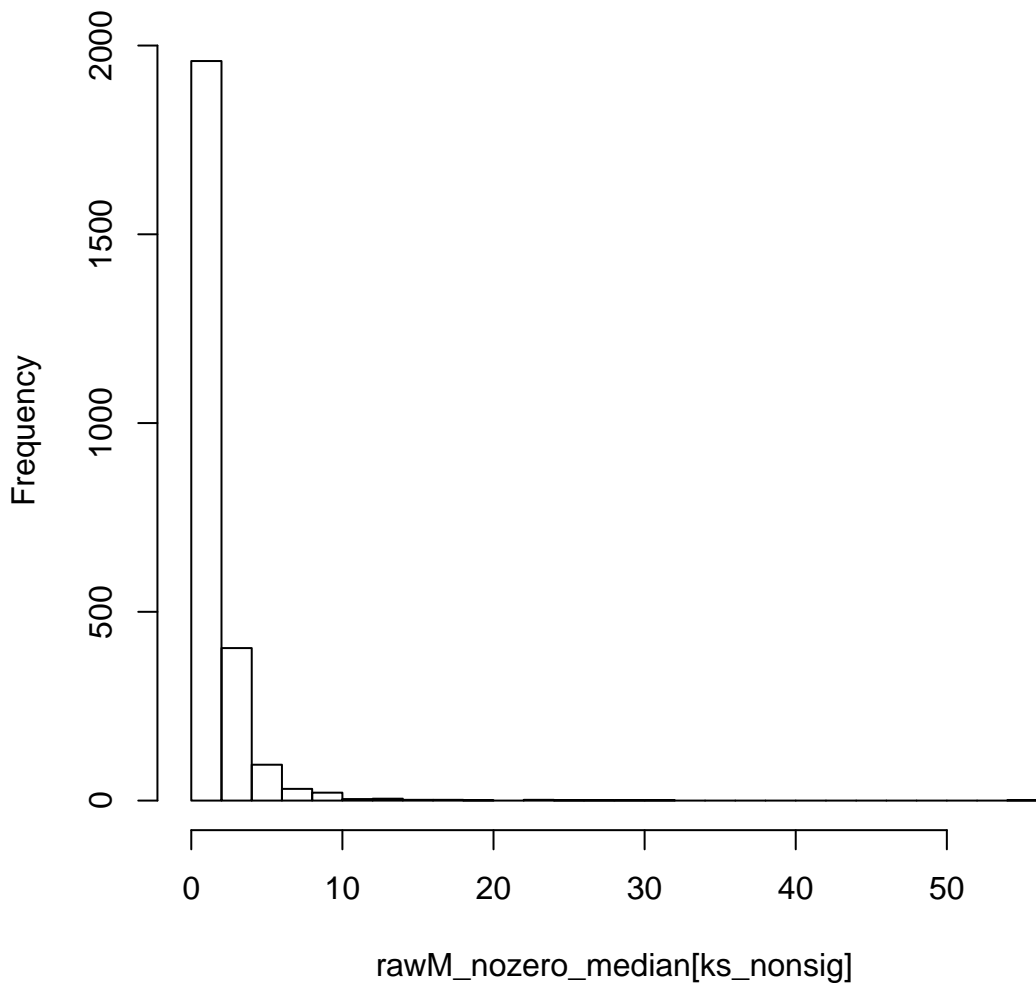
median of nozero log-express of genes, ksless sig



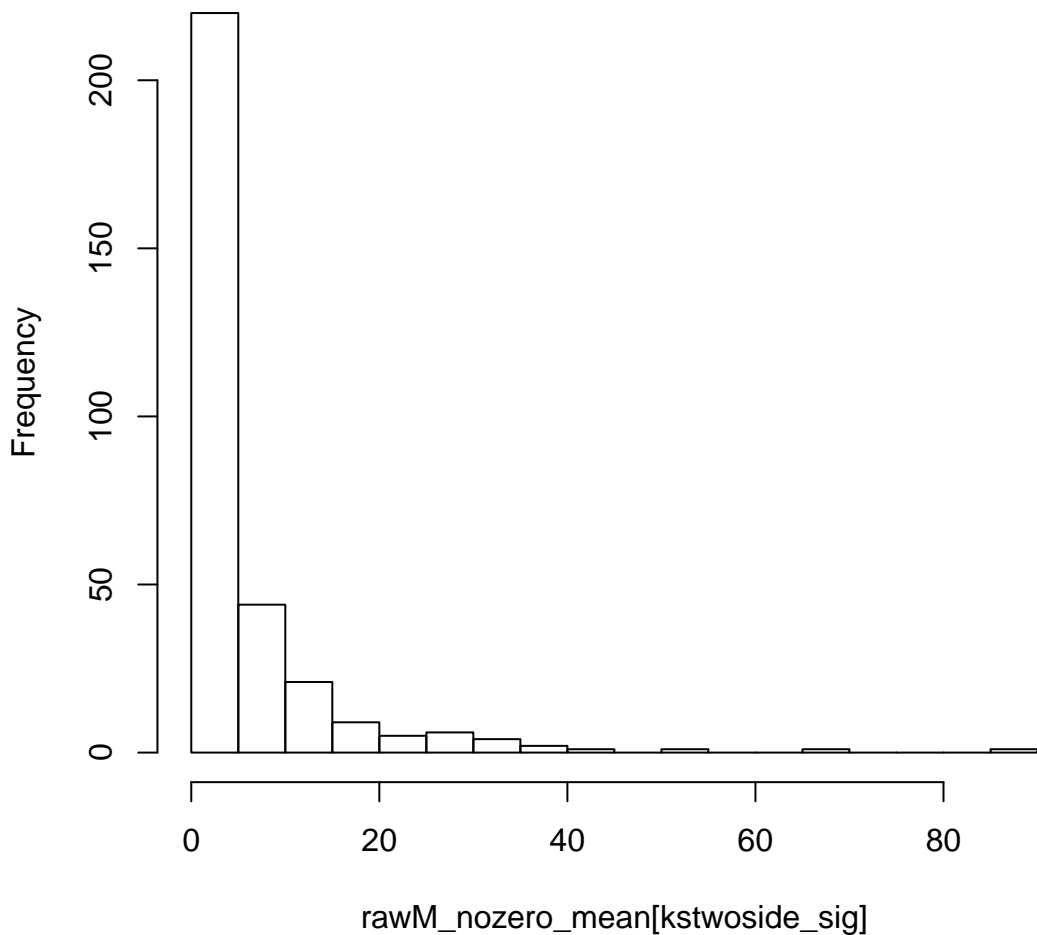
median of nozero log-express of genes,ksgreater sig



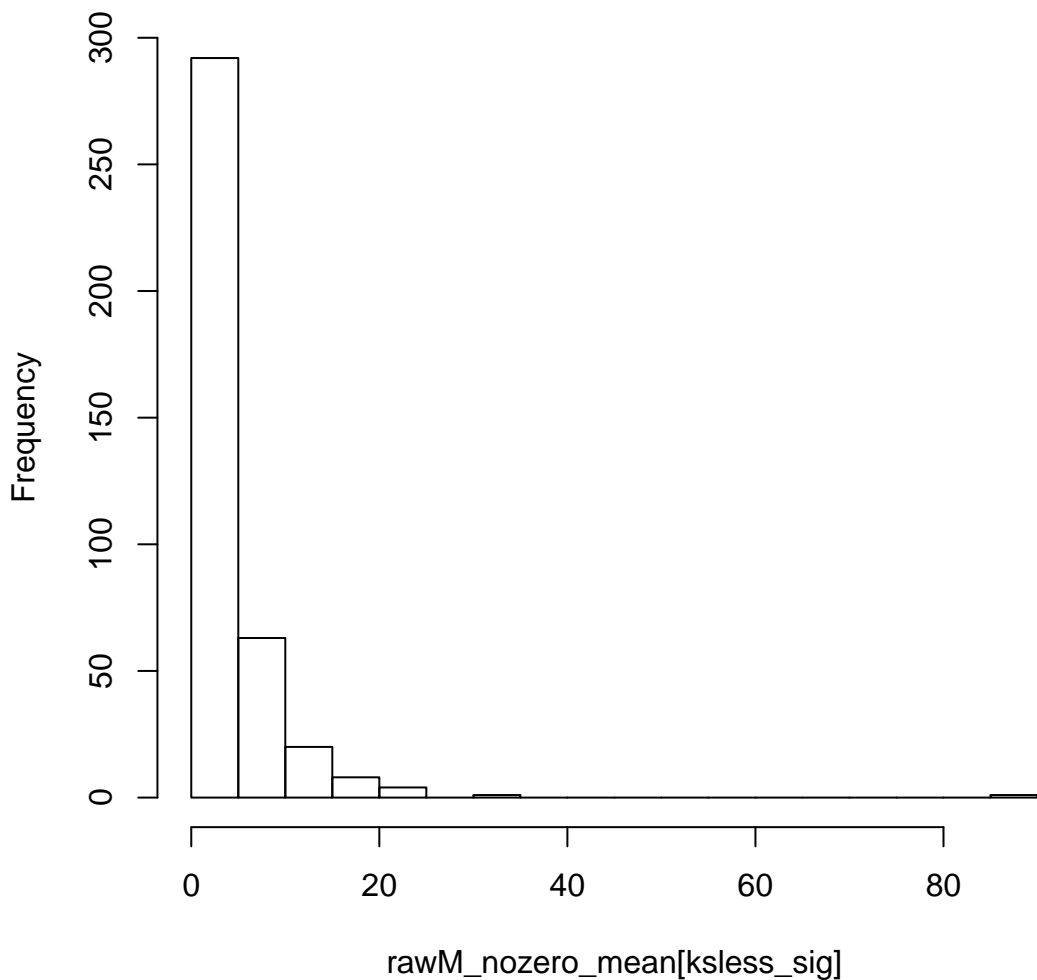
median of nozero log-express of genes,ks no sig



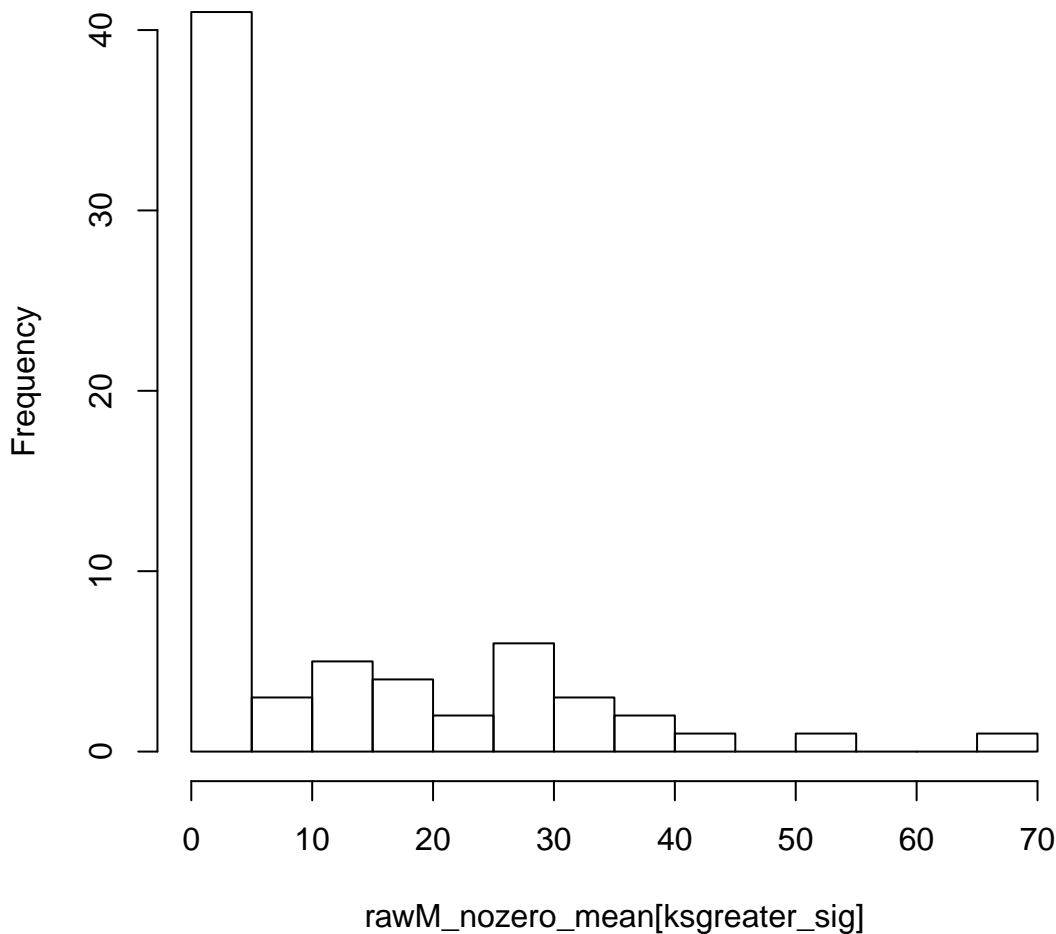
mean of nozero log-express of genes, kstwoside sig



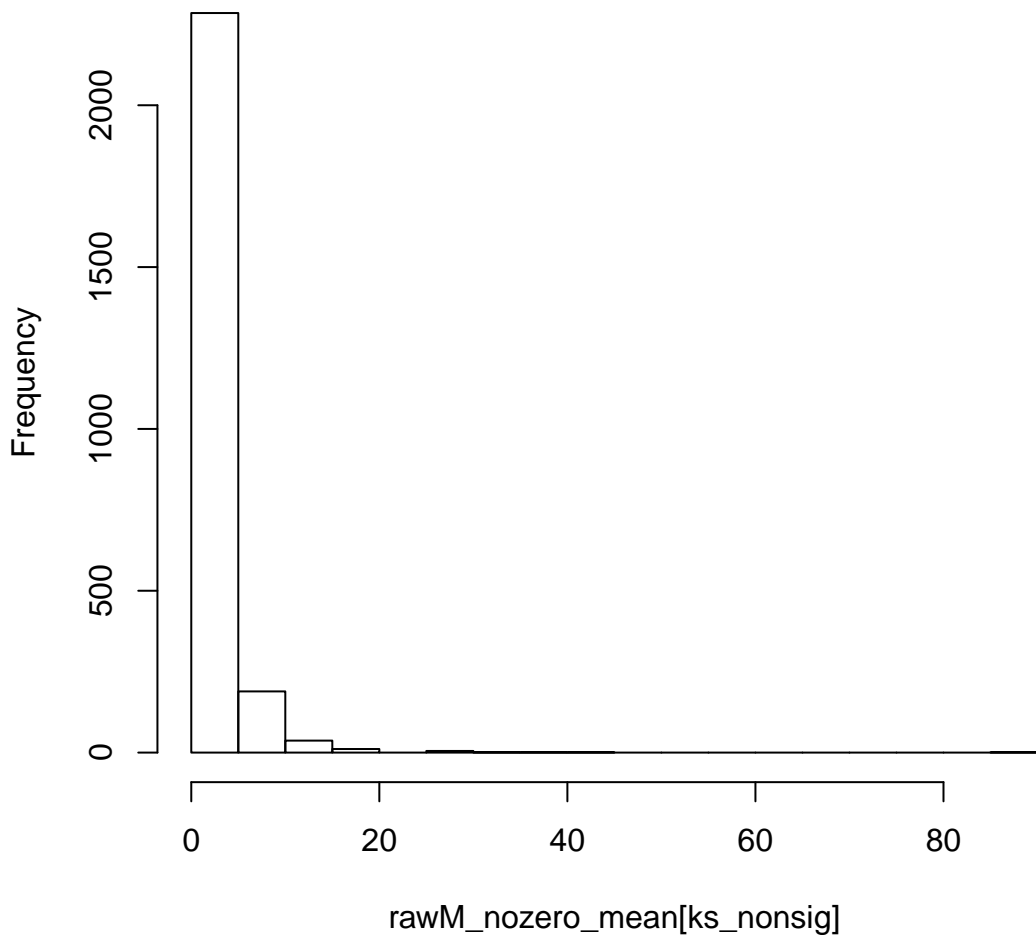
mean of nozero log-express of genes, ksless sig



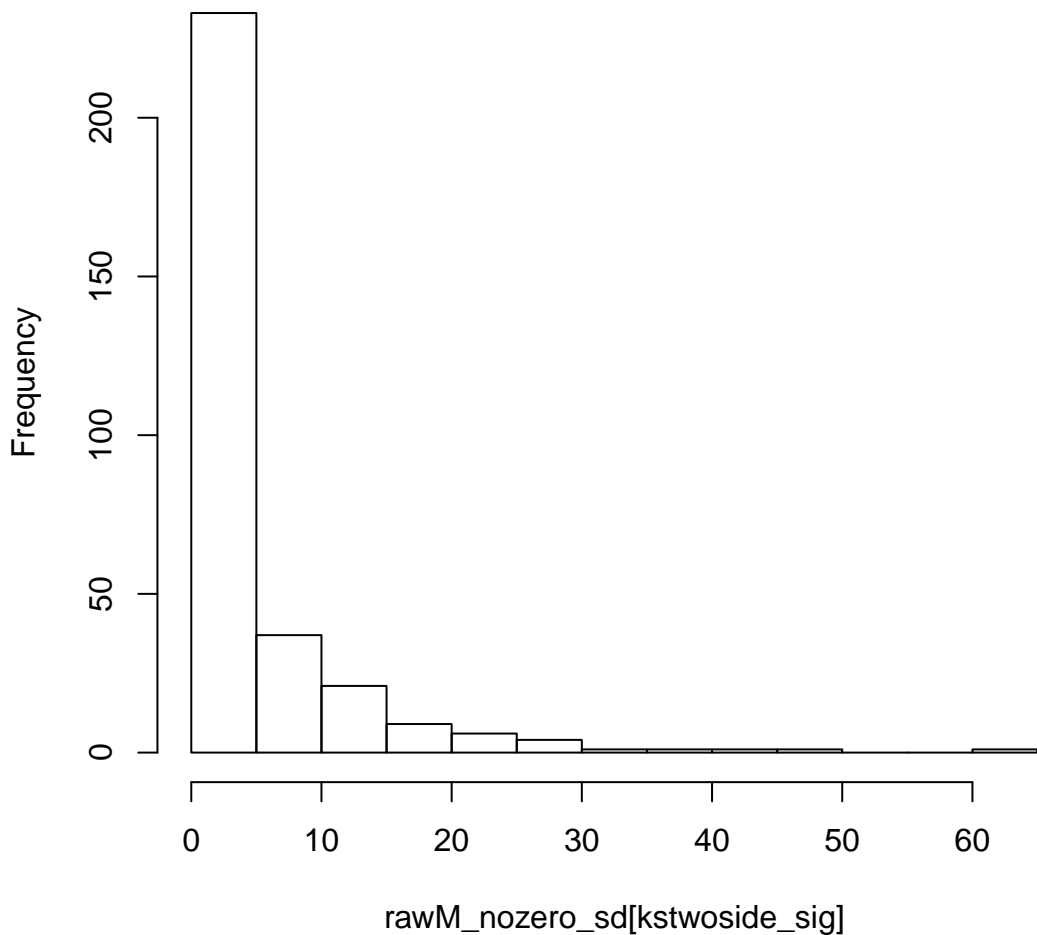
mean of nozero log-express of genes,ksgreater sig



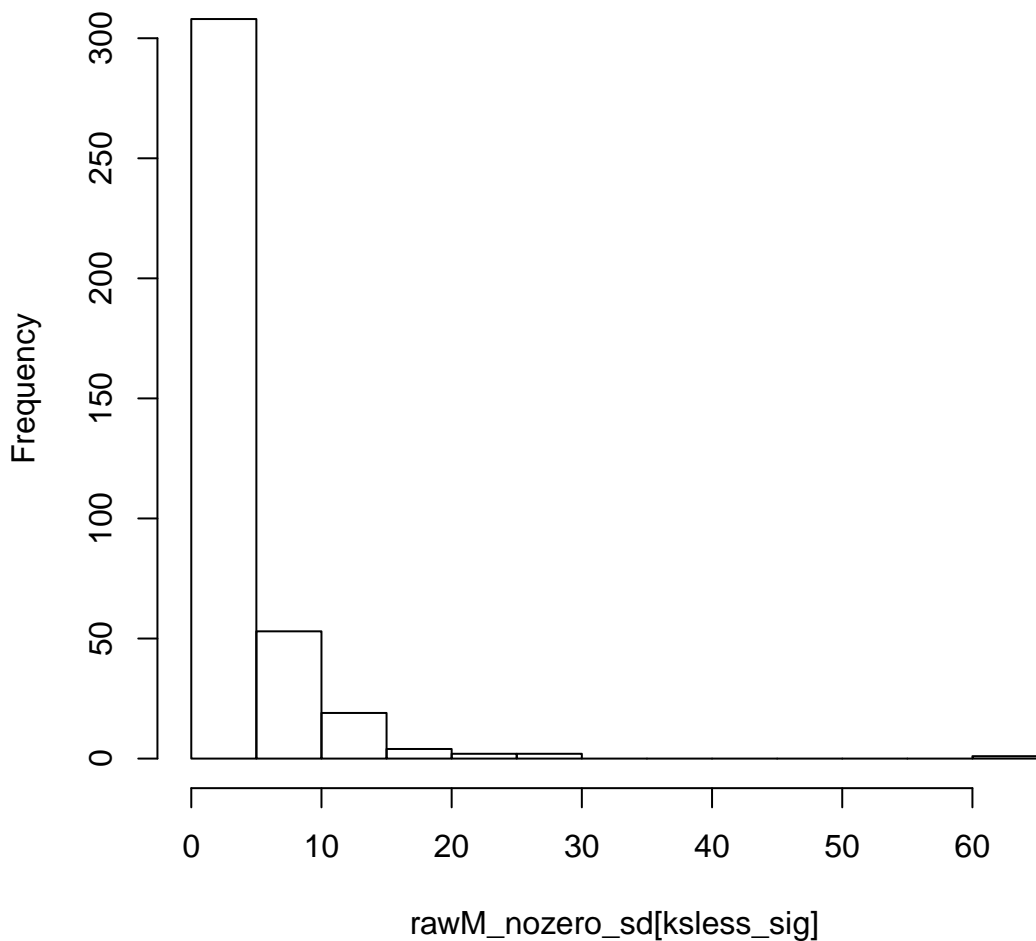
mean of nozero log-expres of genes,ks no sig



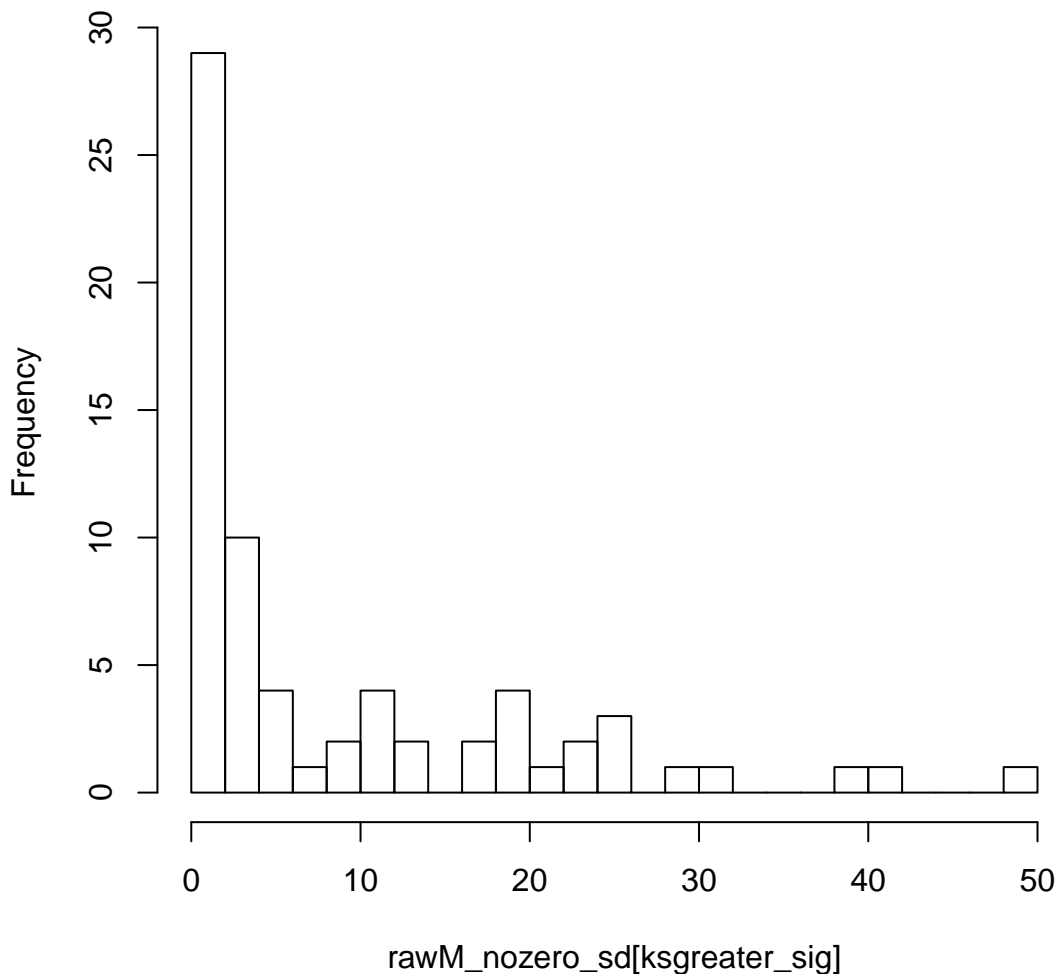
sd of nozero log-express of genes, kstwoside sig



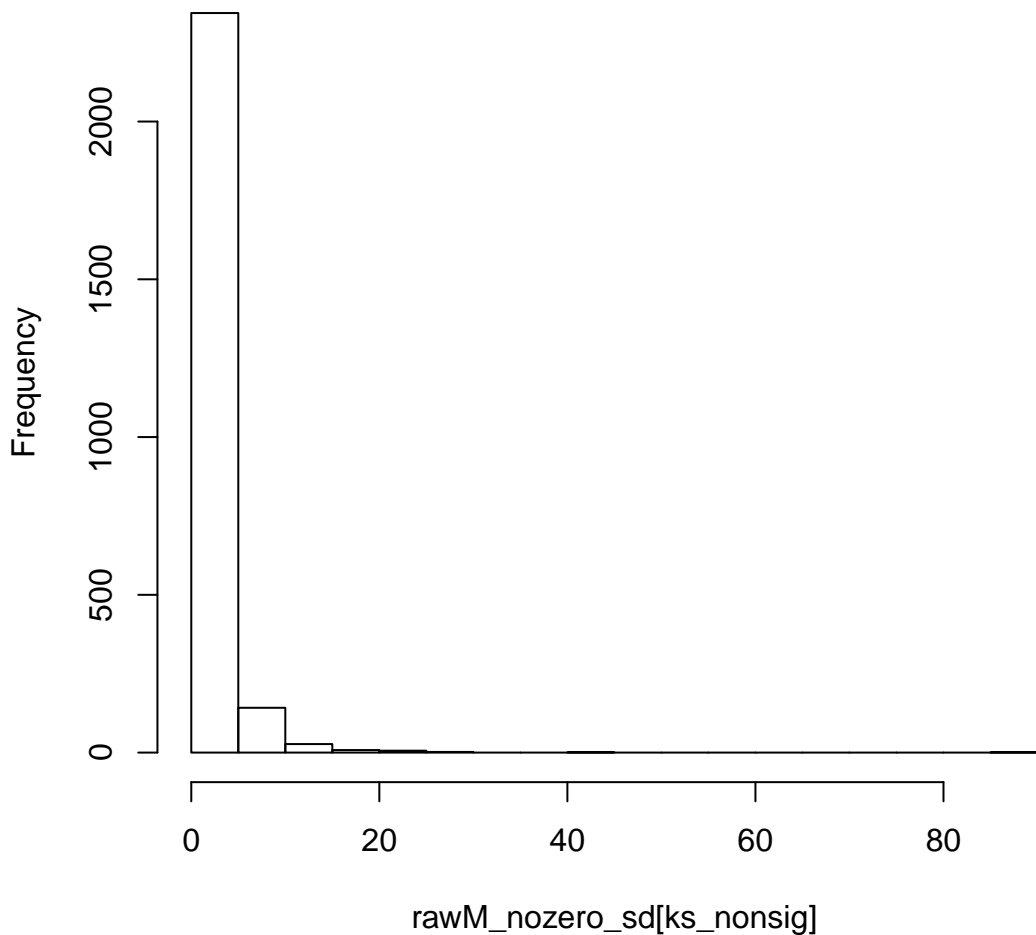
sd of nozero log-express of genes, ksless sig



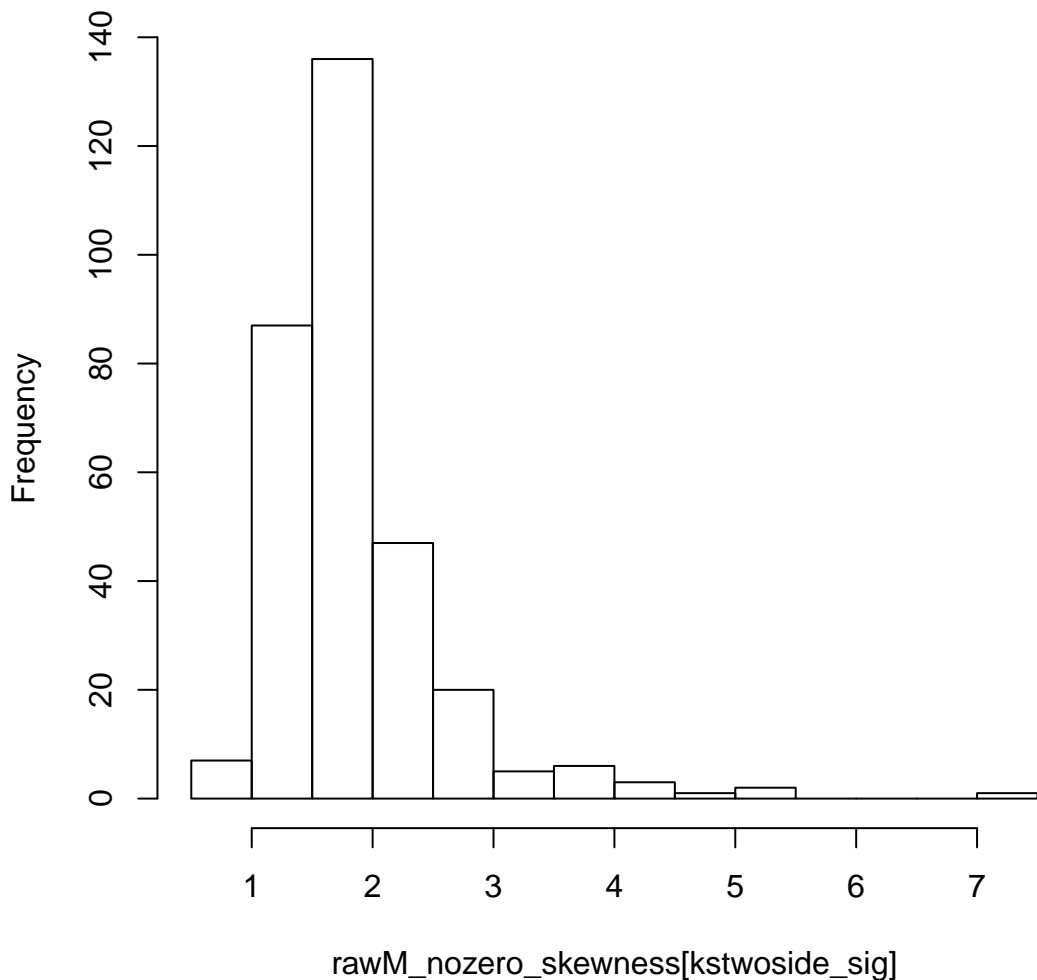
sd of nozero log-express of genes,ksgreater sig



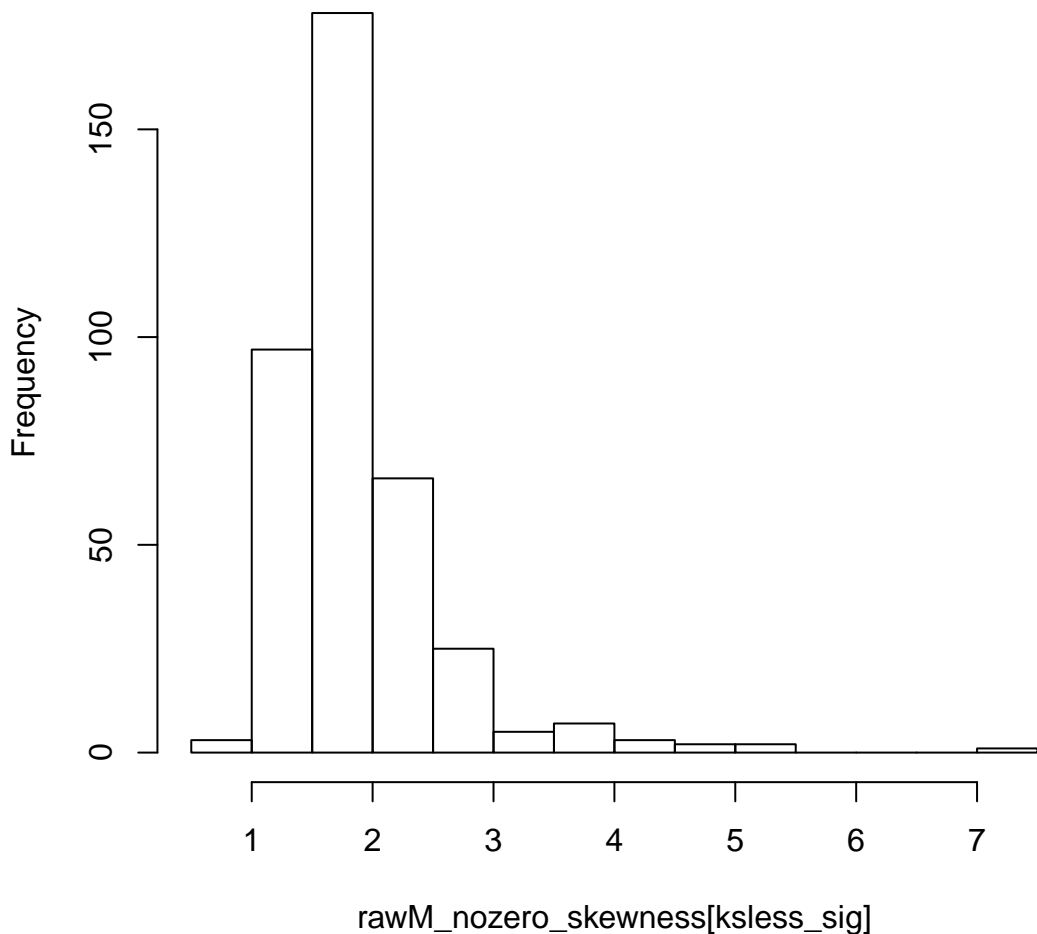
sd of nozero log-express of genes,ks no sig



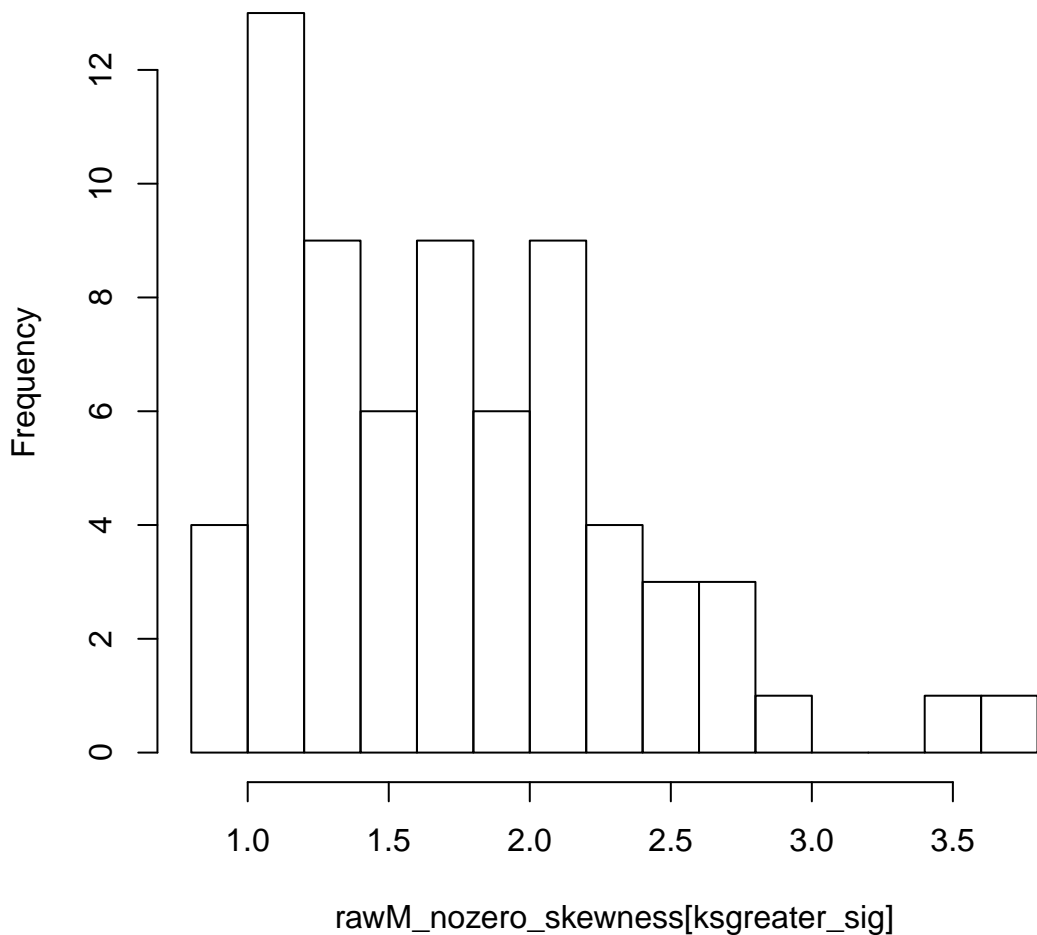
skewness of nozero log-express of genes, kstwo side sig



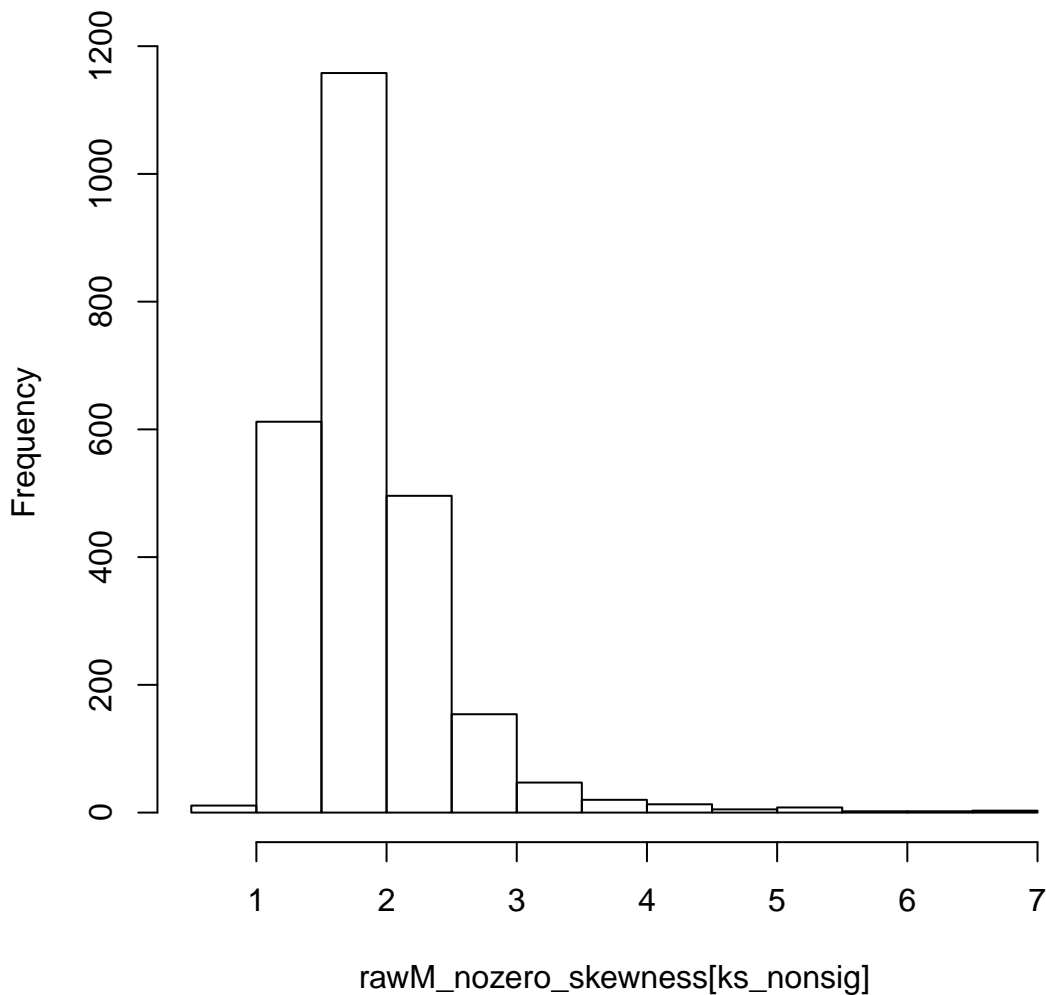
skewness of nozero log-express of genes, ksless sig



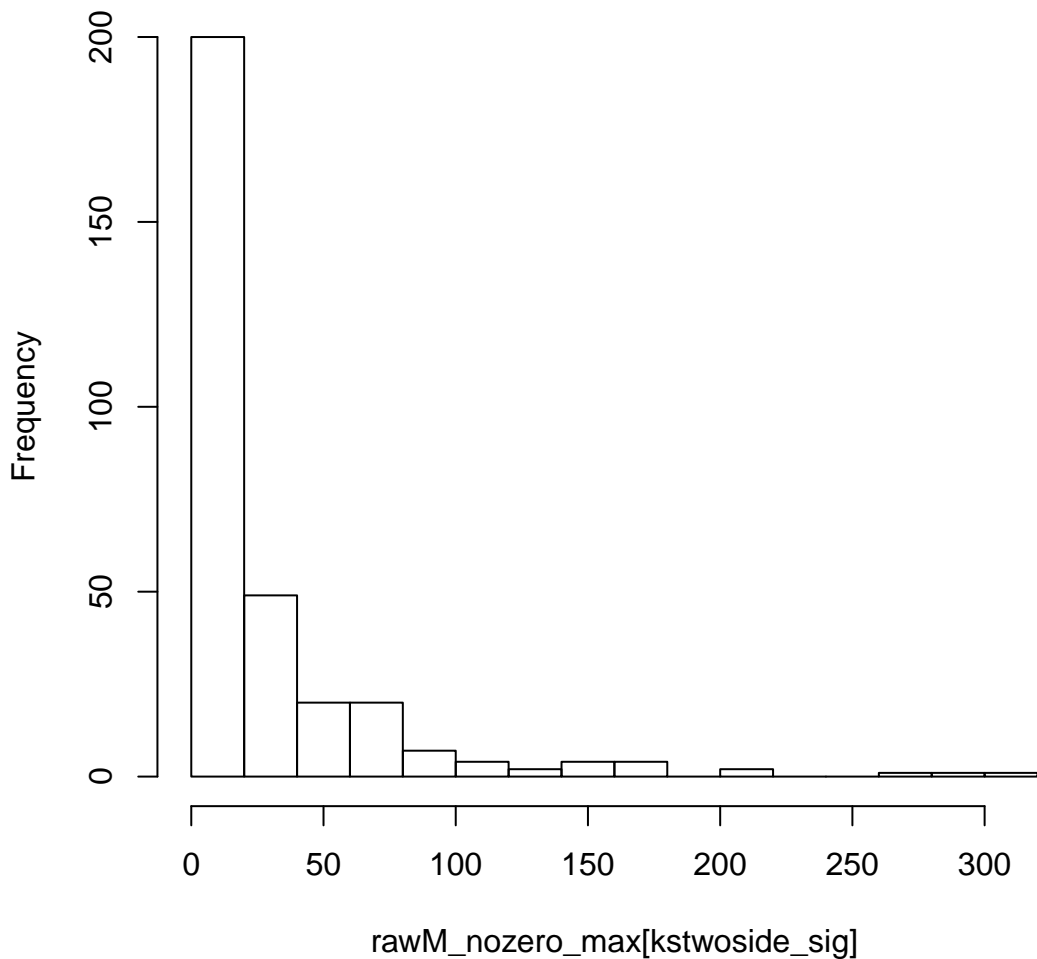
skewness of nozero log-express of genes,ksgreater sig



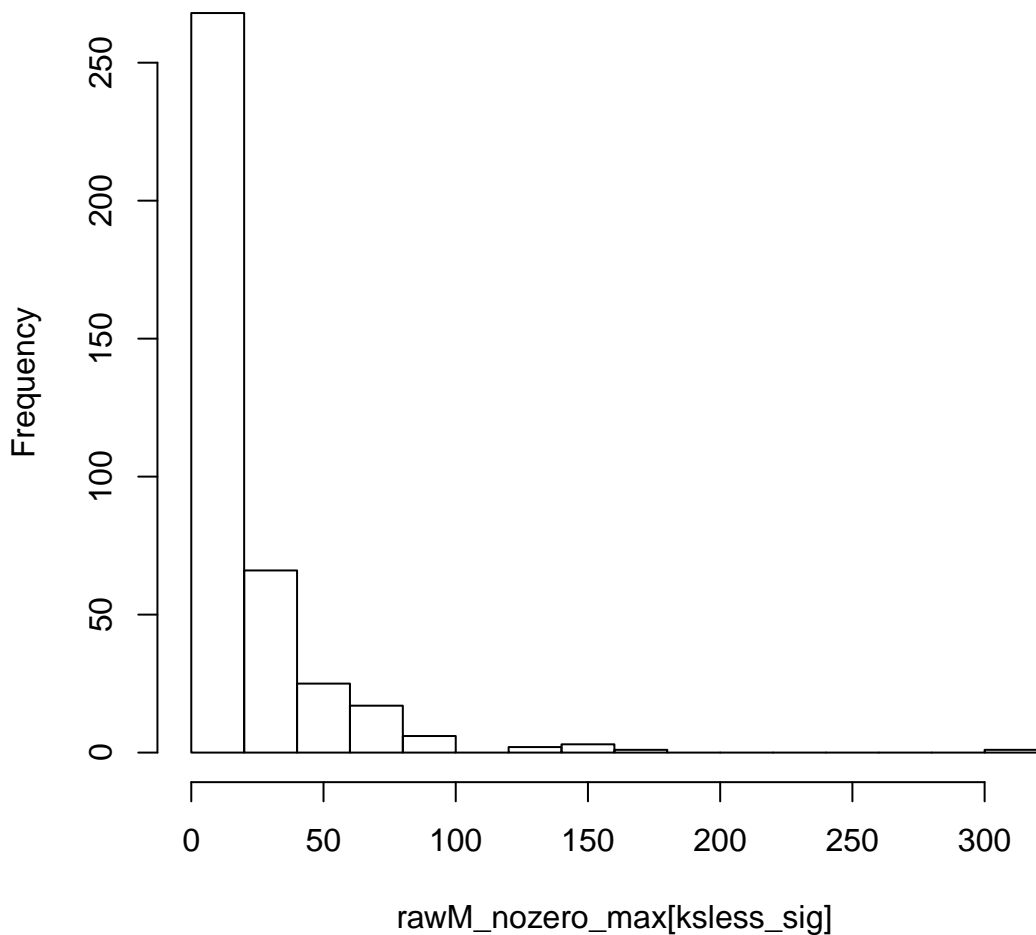
skewness of nozero log-express of genes,ks no sig



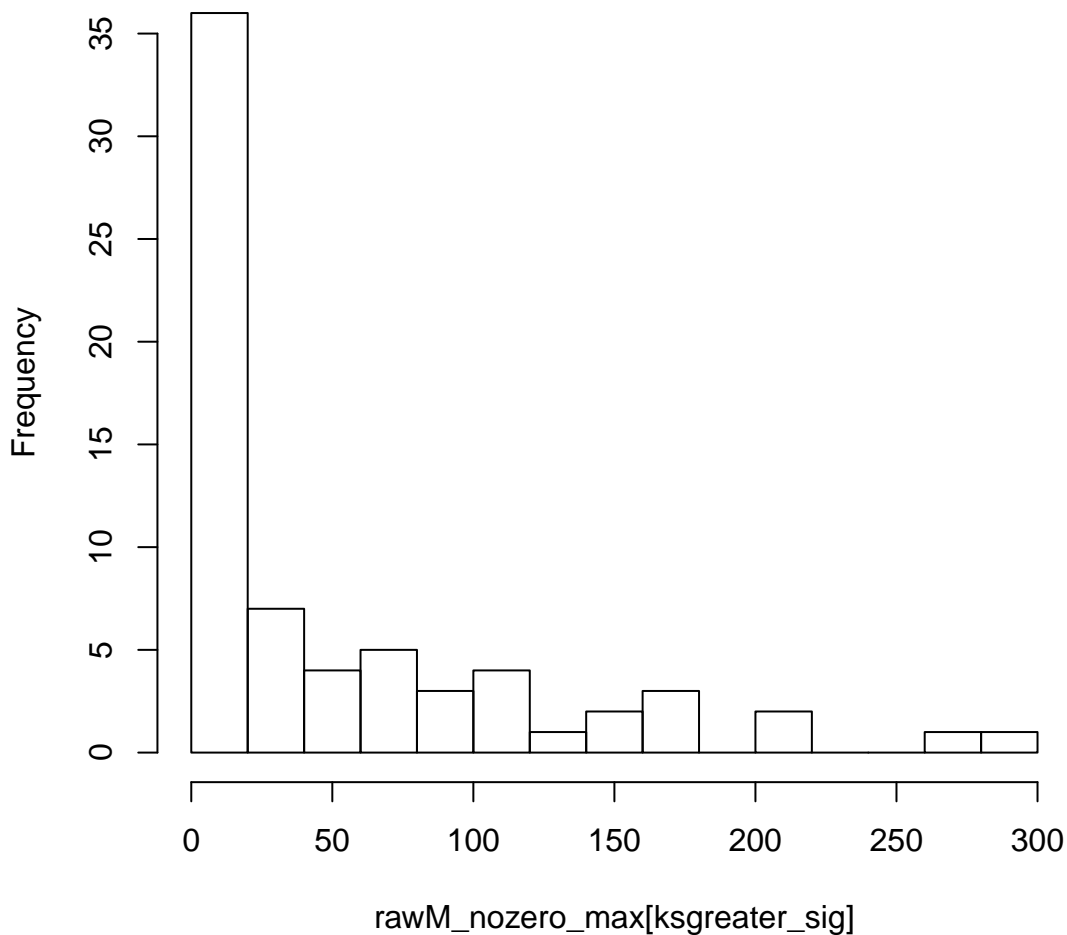
max of nozero log-express of genes, kstwo side sig



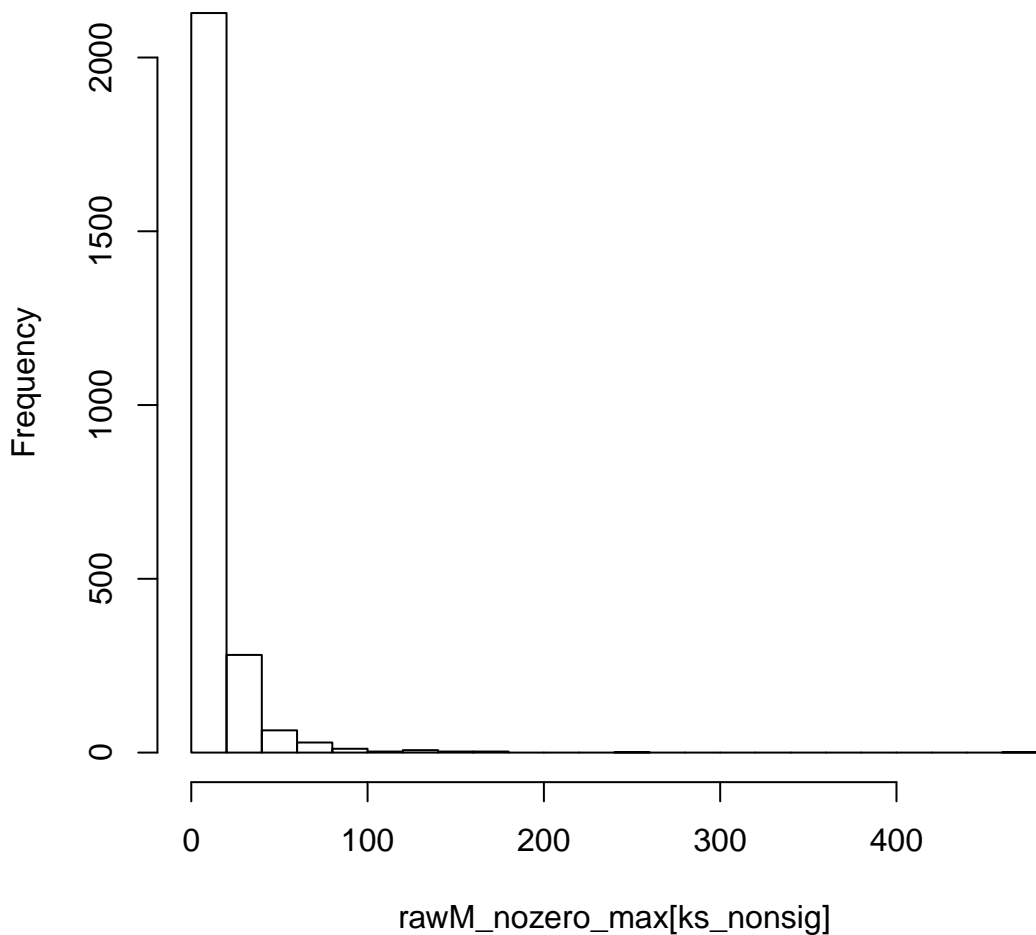
max of nozero log-express of genes, ksless sig



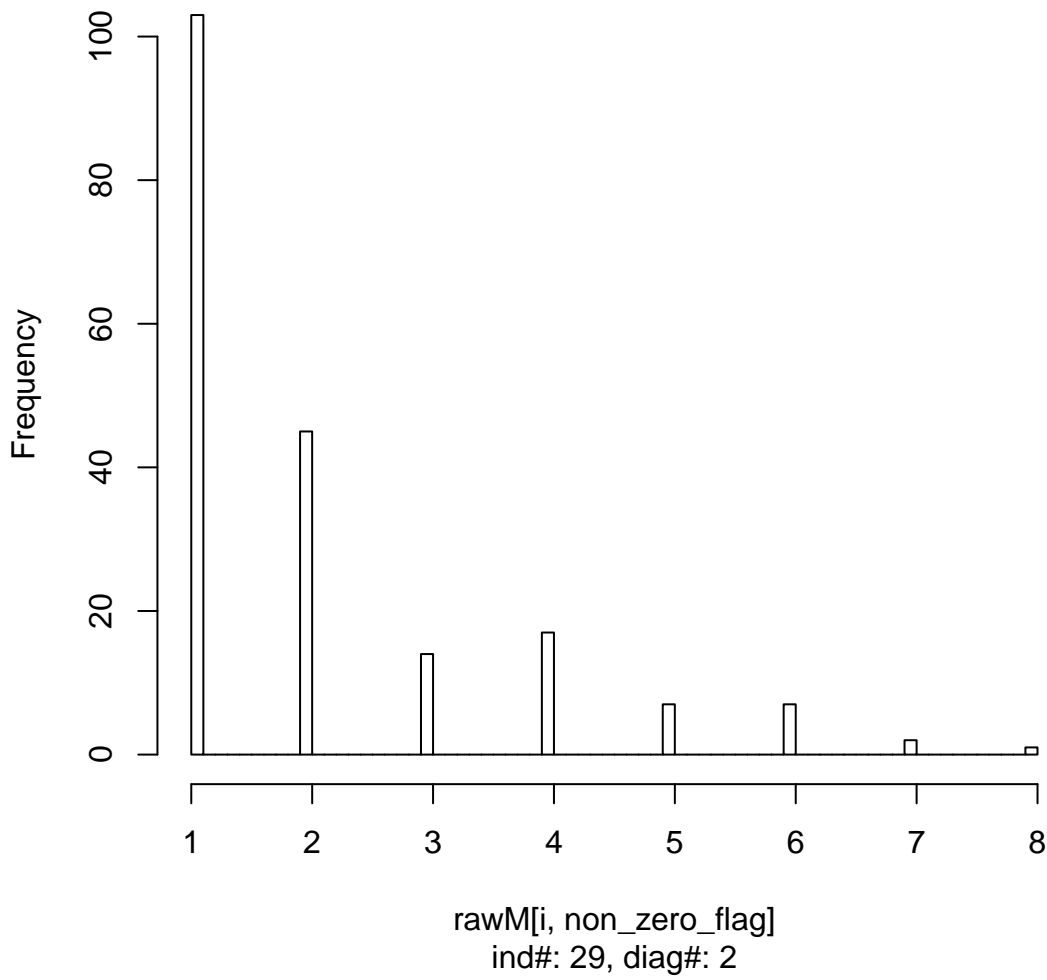
max of nozero log-express of genes,ksgreater sig



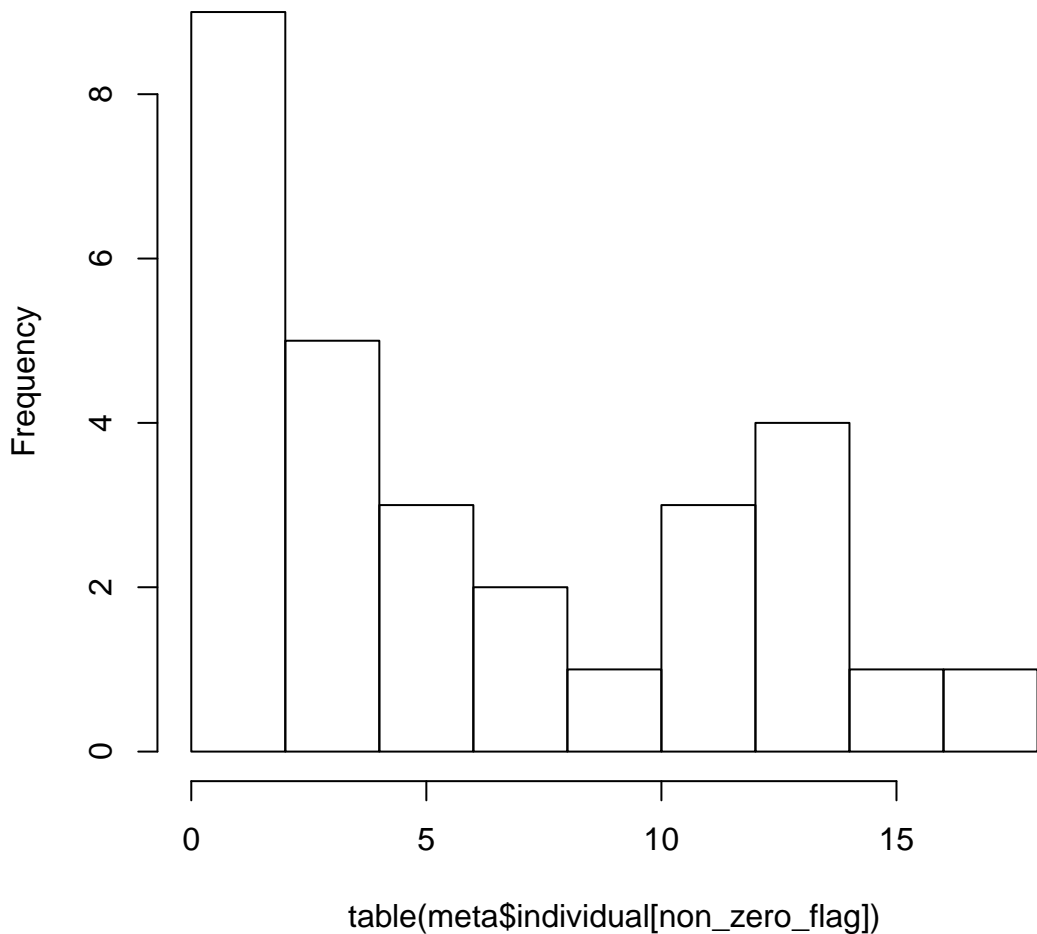
max of nozero log-expres of genes,ks no sig



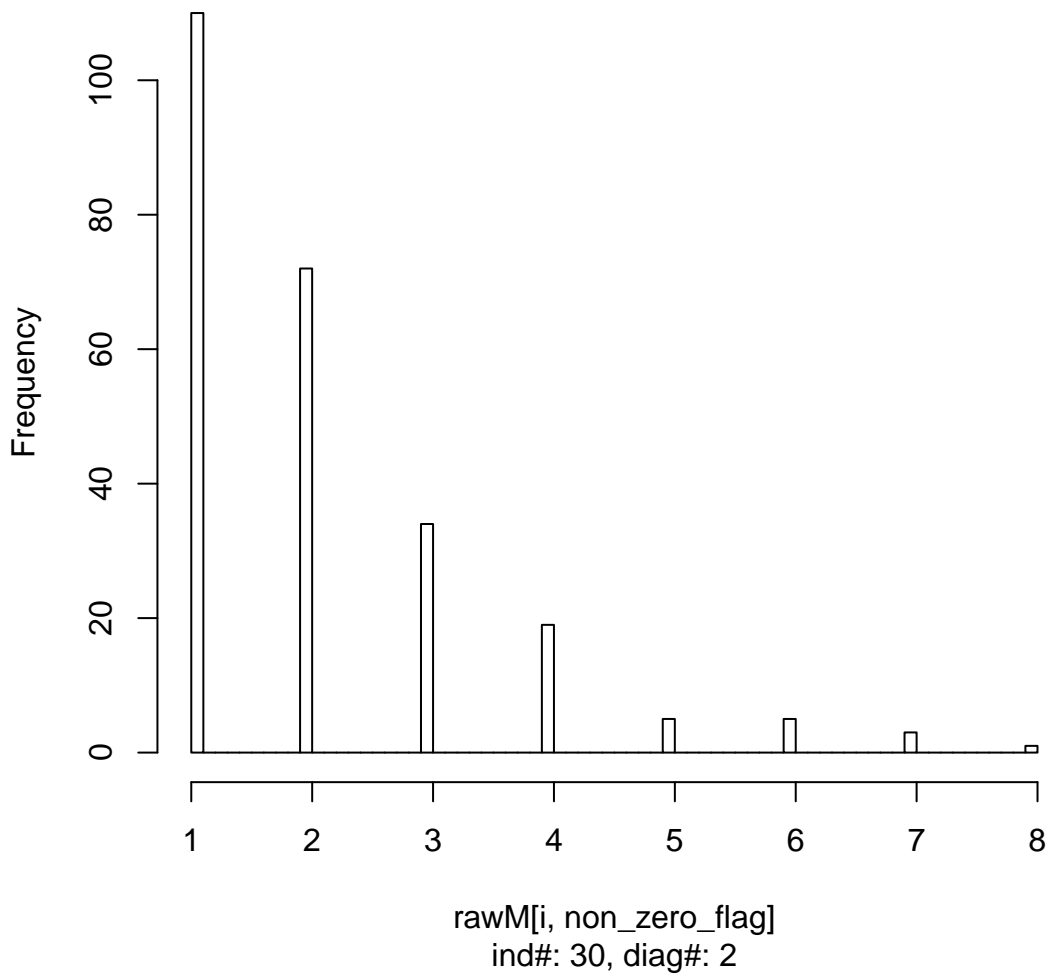
less sig: log expression of gene#2, pval ob=0.3094, non-zero nu



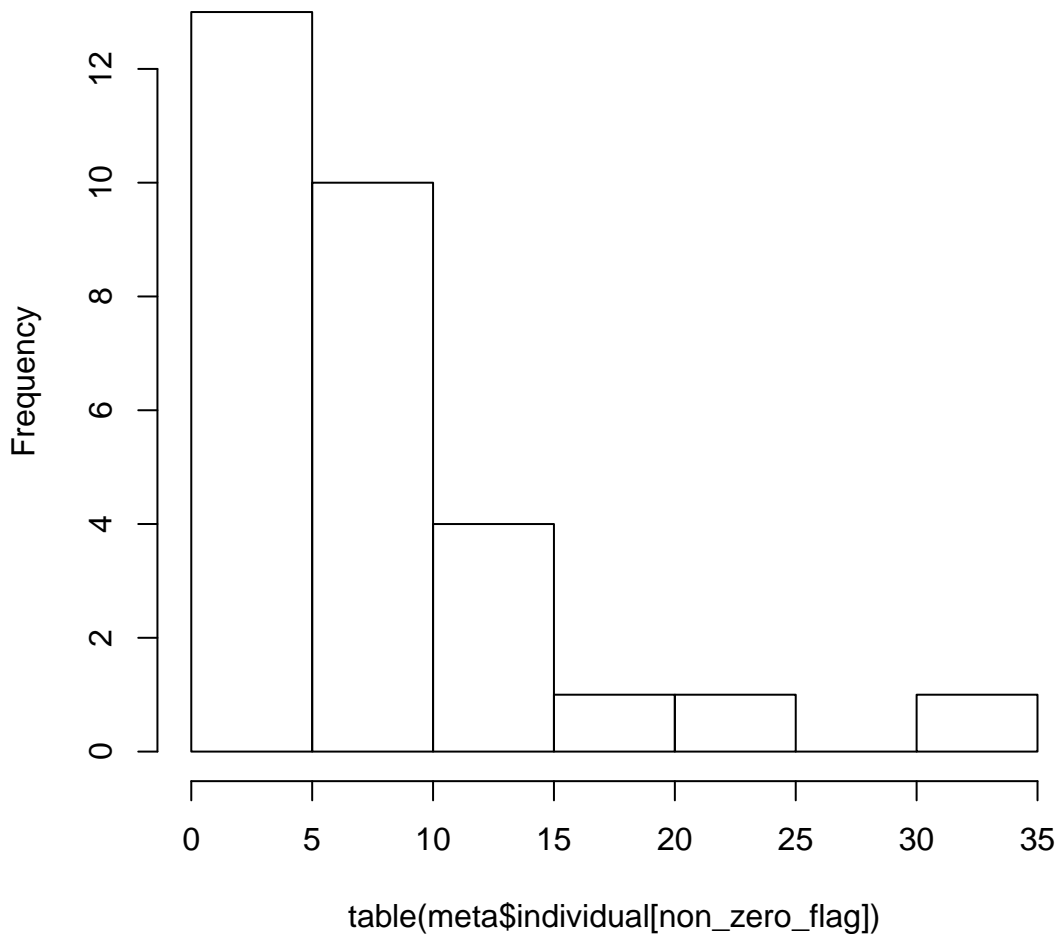
KSless sig: individual expression cell count of gene#2



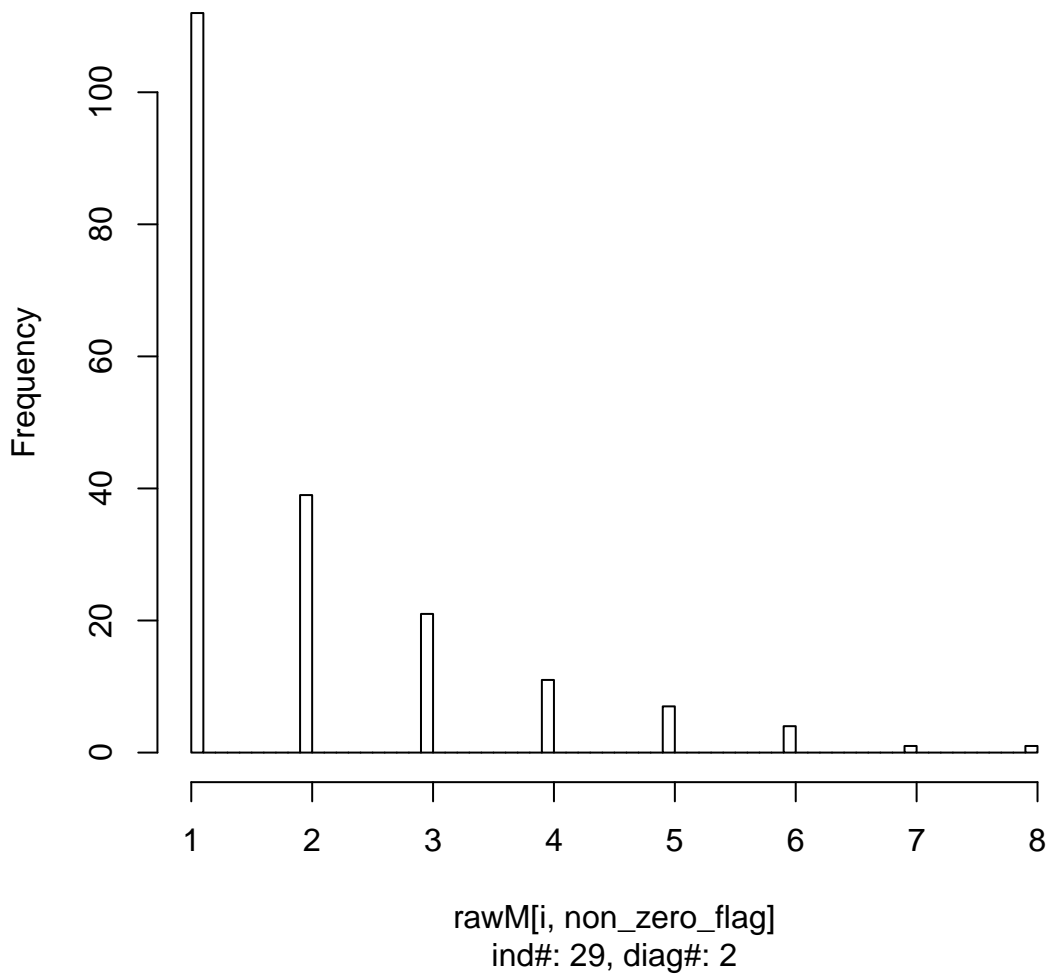
less sig: log expression of gene#6, pval ob=0.1472, non-zero nu



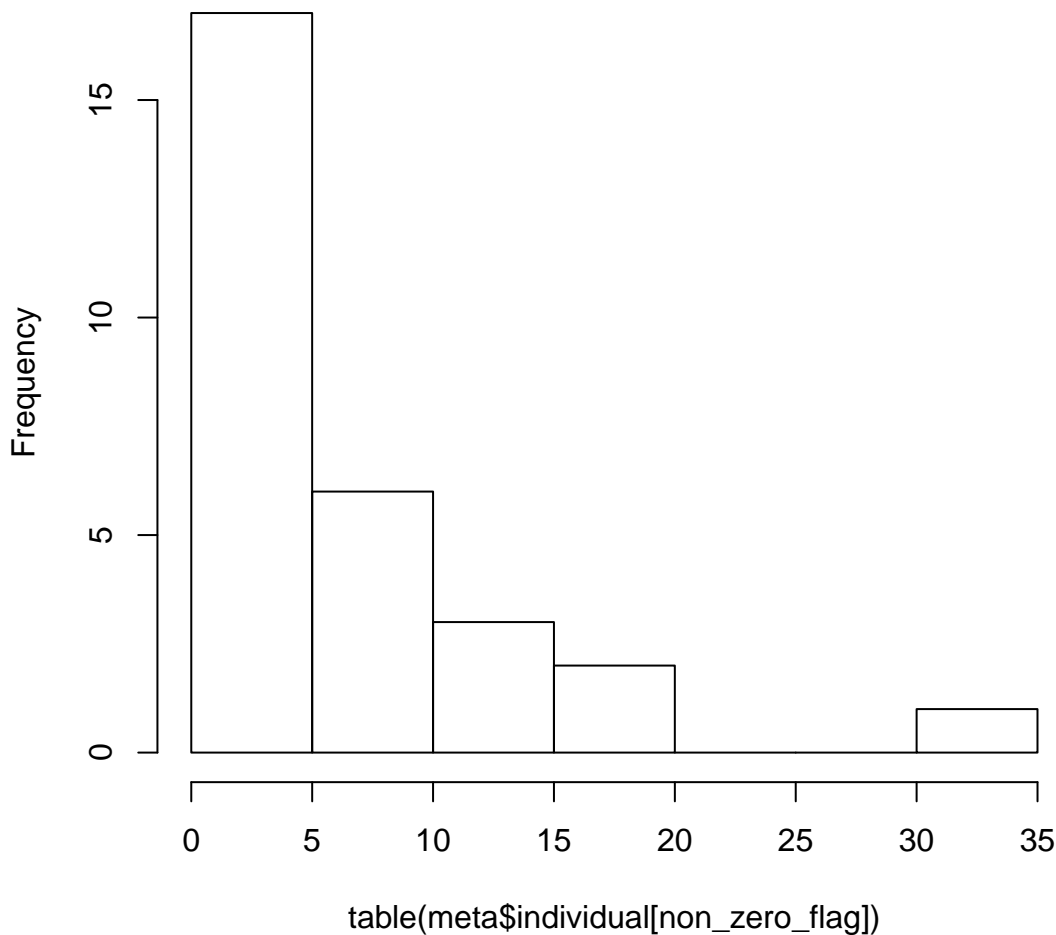
KSless sig: individual expression cell count of gene#6



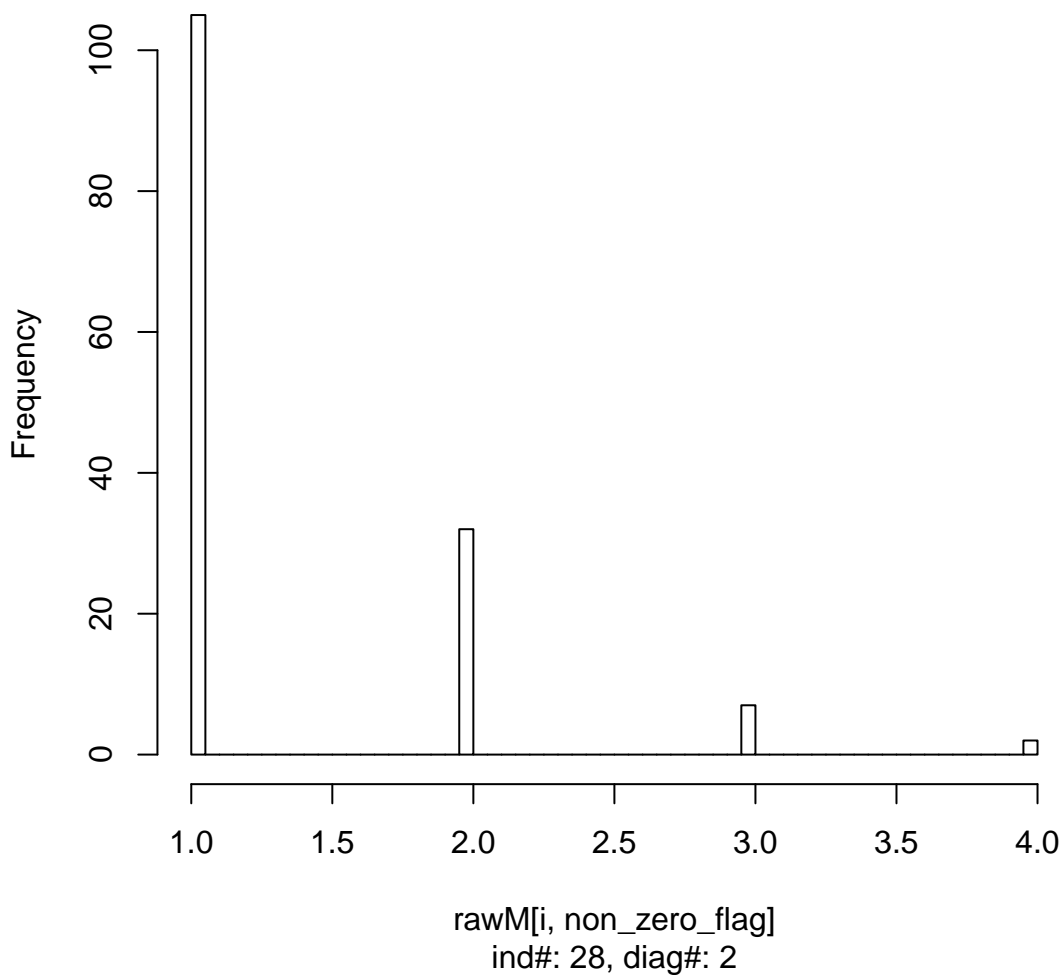
less sig: log expression of gene#20, pval ob=0.1931, non-zero nu



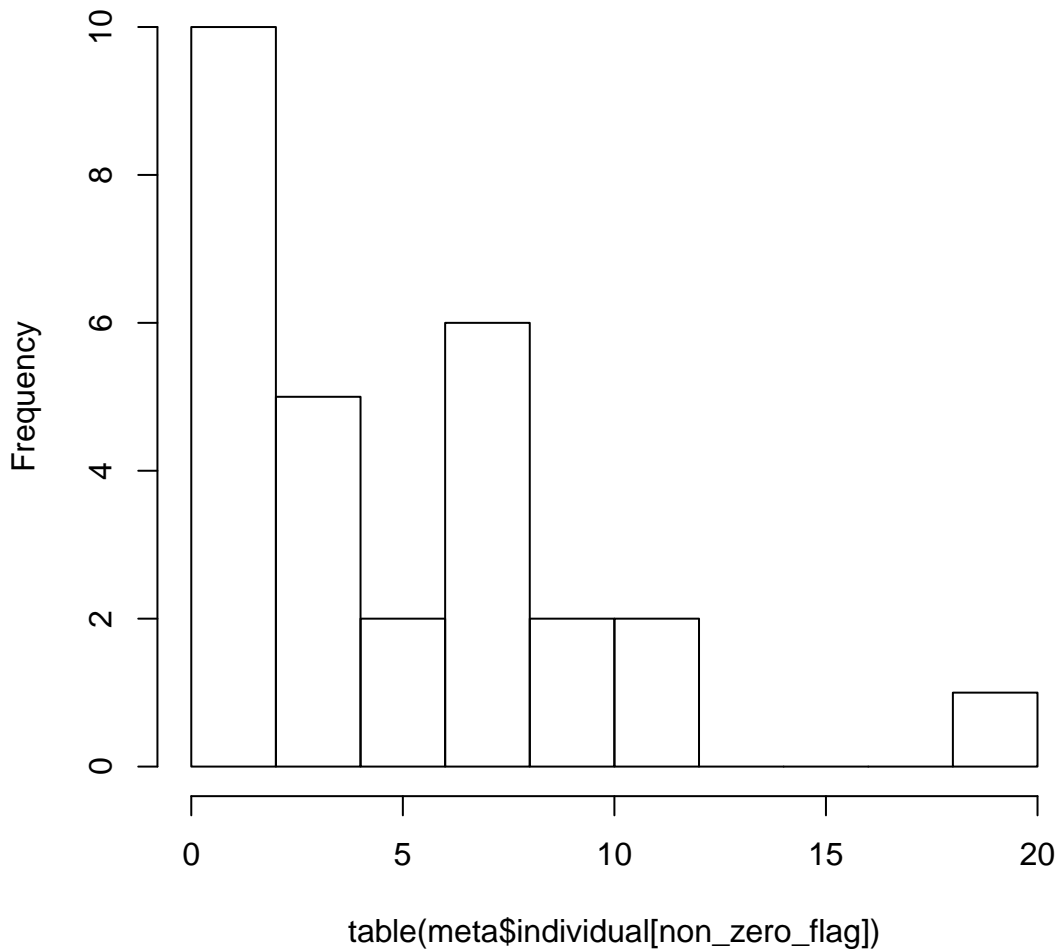
KSless sig: individual expression cell count of gene#20



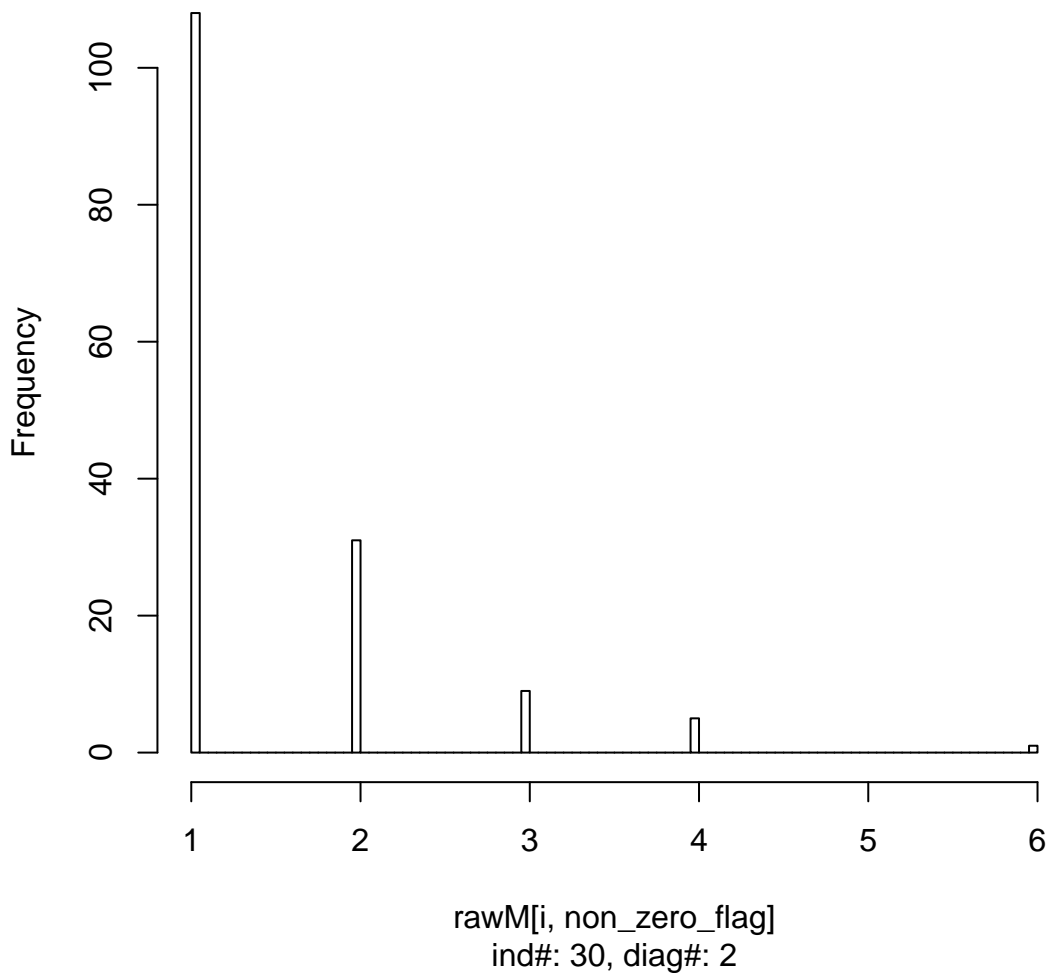
less sig: log expression of gene#34, pval ob=0.5831, non-zero nu



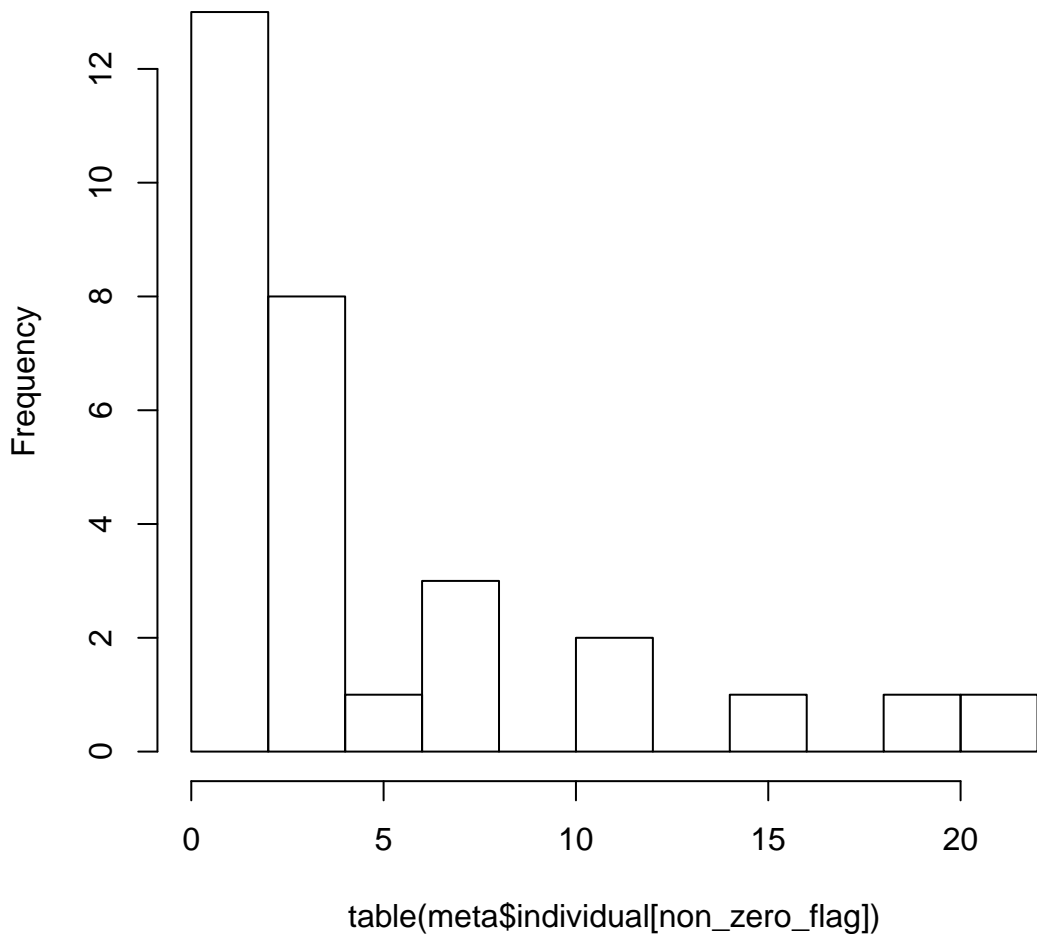
KSless sig: individual expression cell count of gene#34



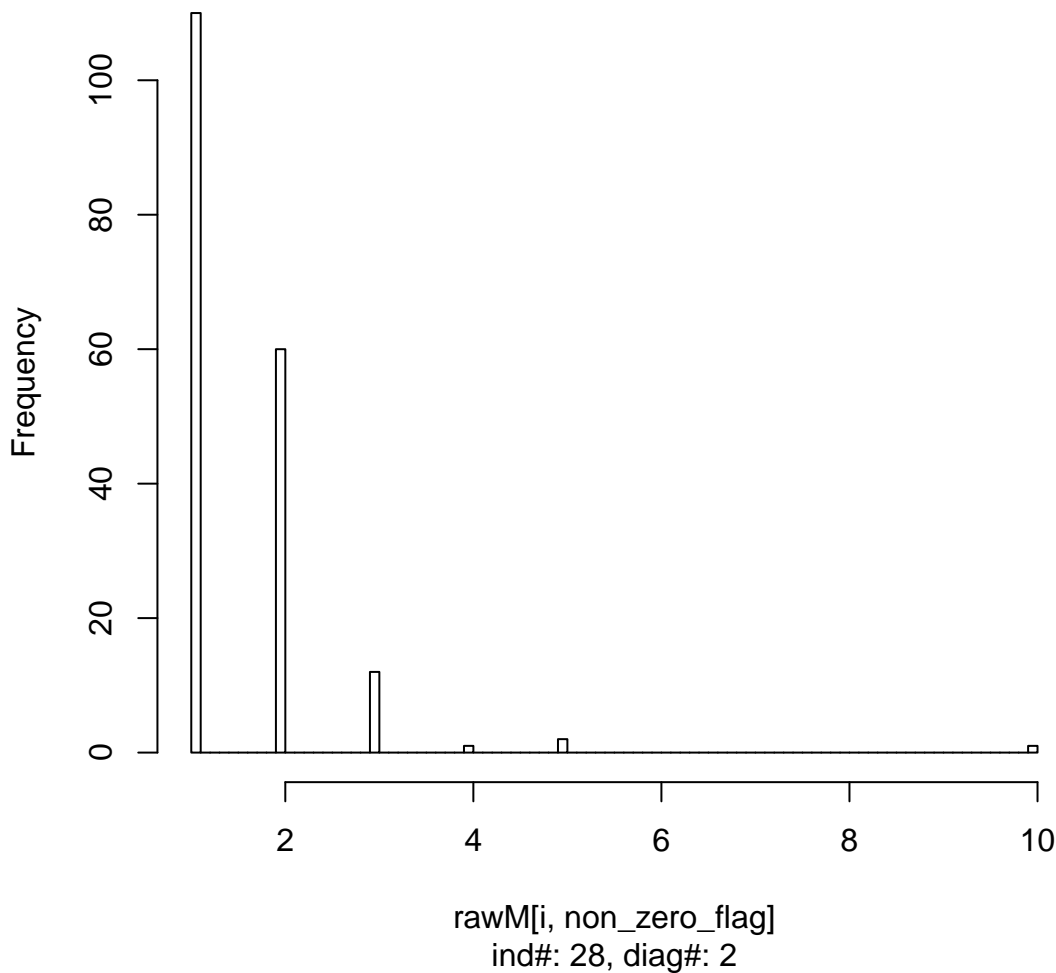
less sig: log expression of gene#41, pval ob=0.2008, non-zero nu



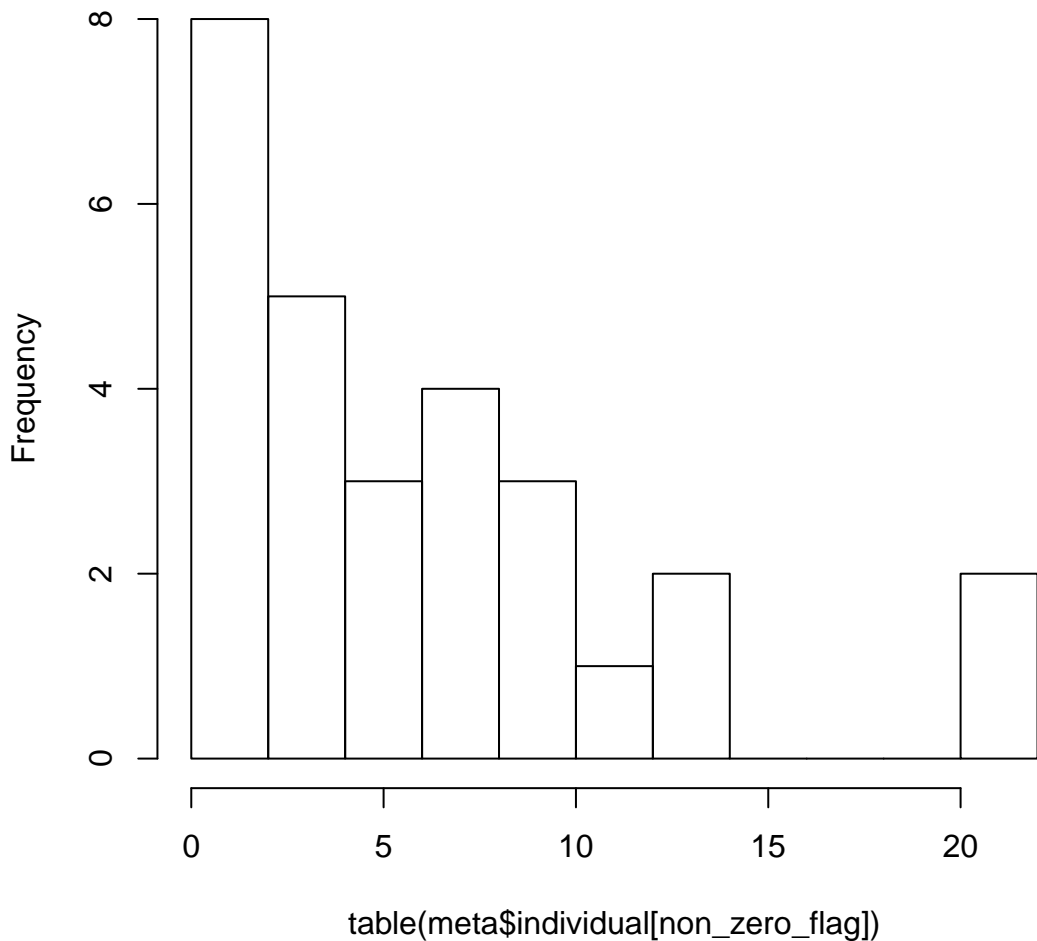
KSless sig: individual expression cell count of gene#41



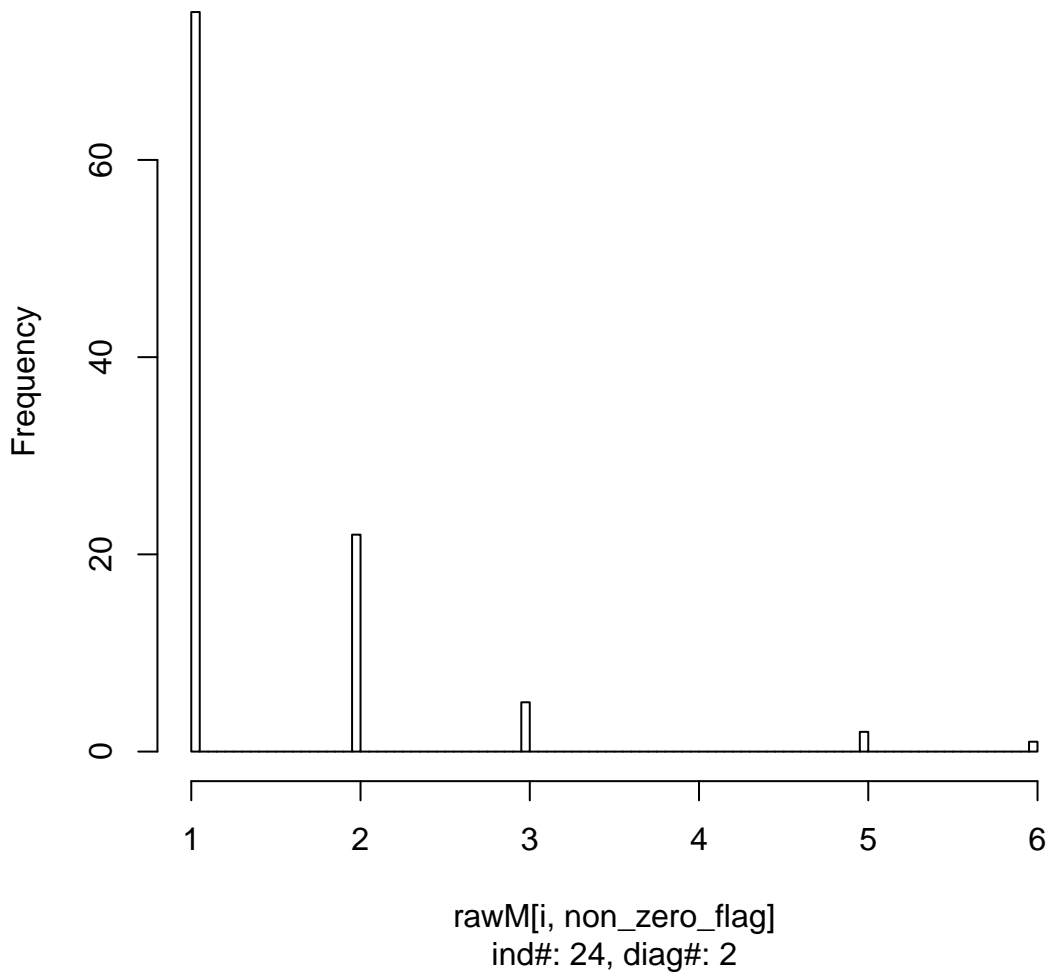
less sig: log expression of gene#45, pval ob=0.2714, non-zero nu



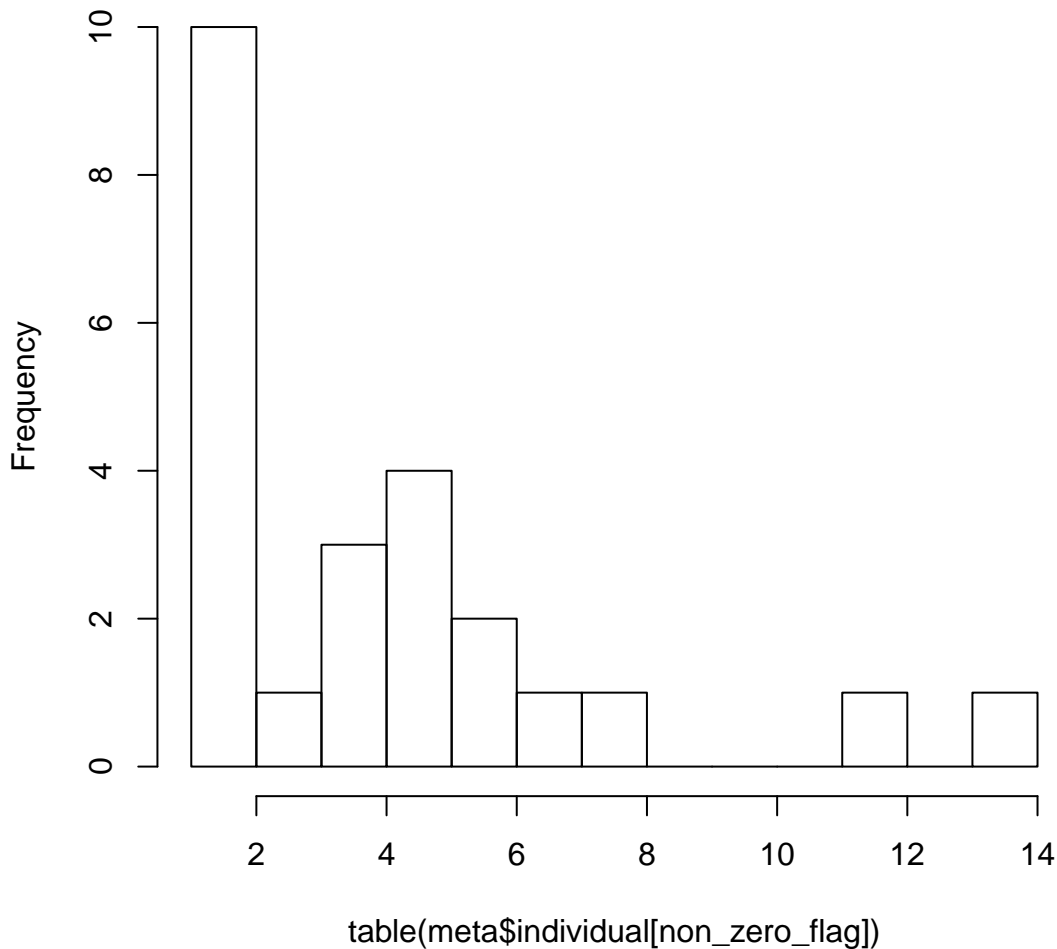
KSless sig: individual expression cell count of gene#45



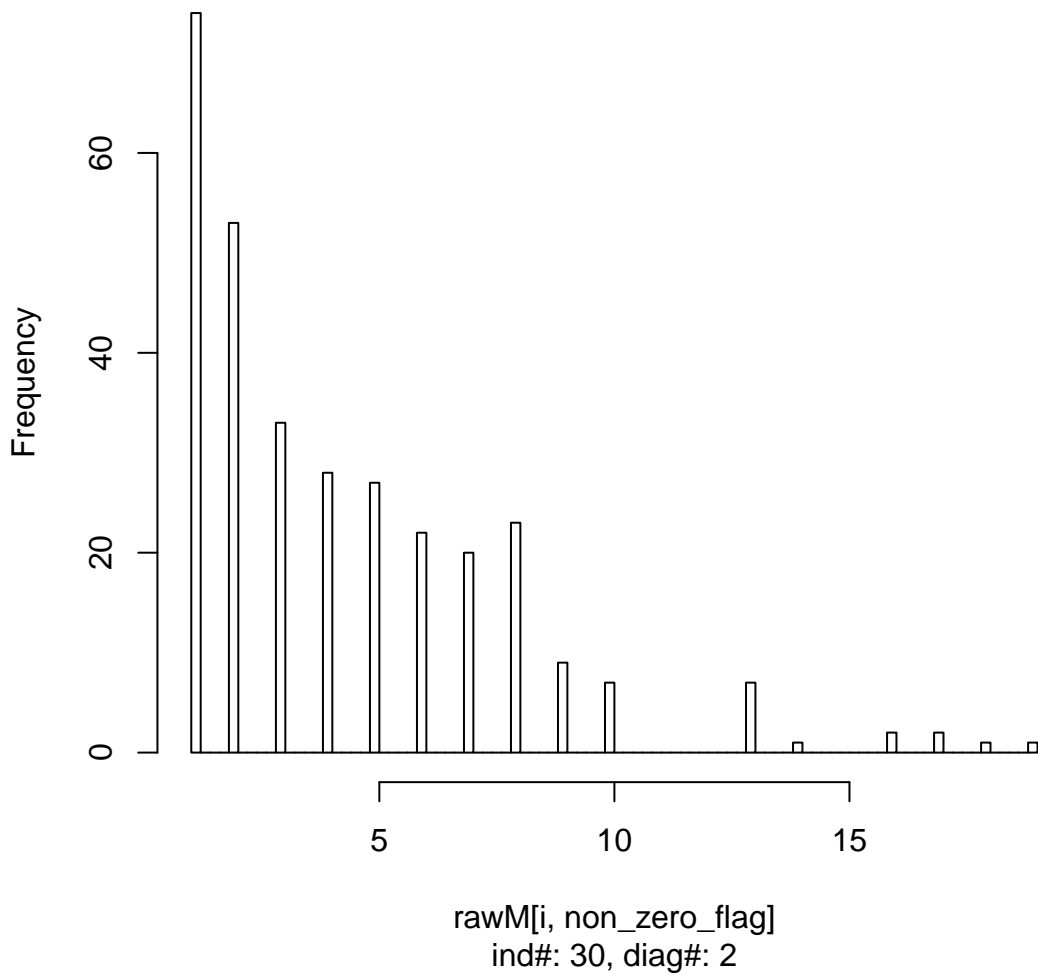
less sig: log expression of gene#46, pval ob=0.0353, non-zero nu



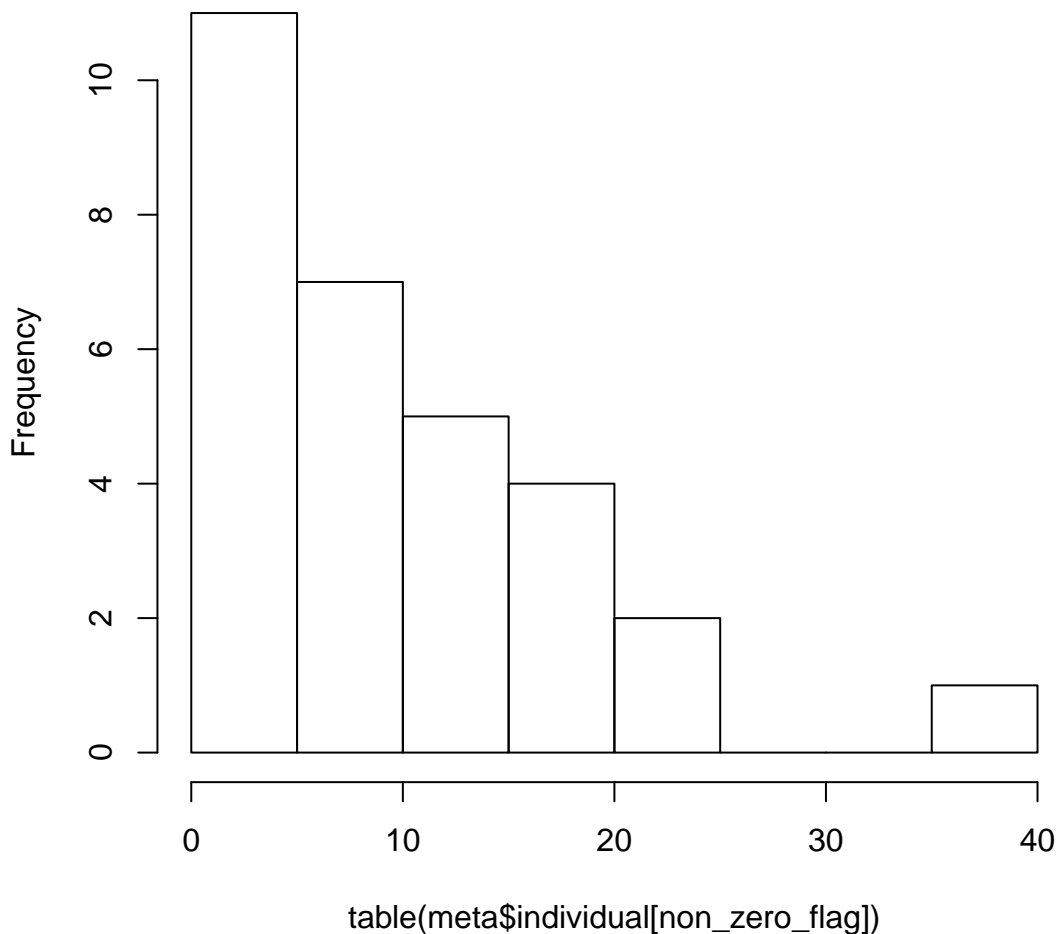
KSless sig: individual expression cell count of gene#46



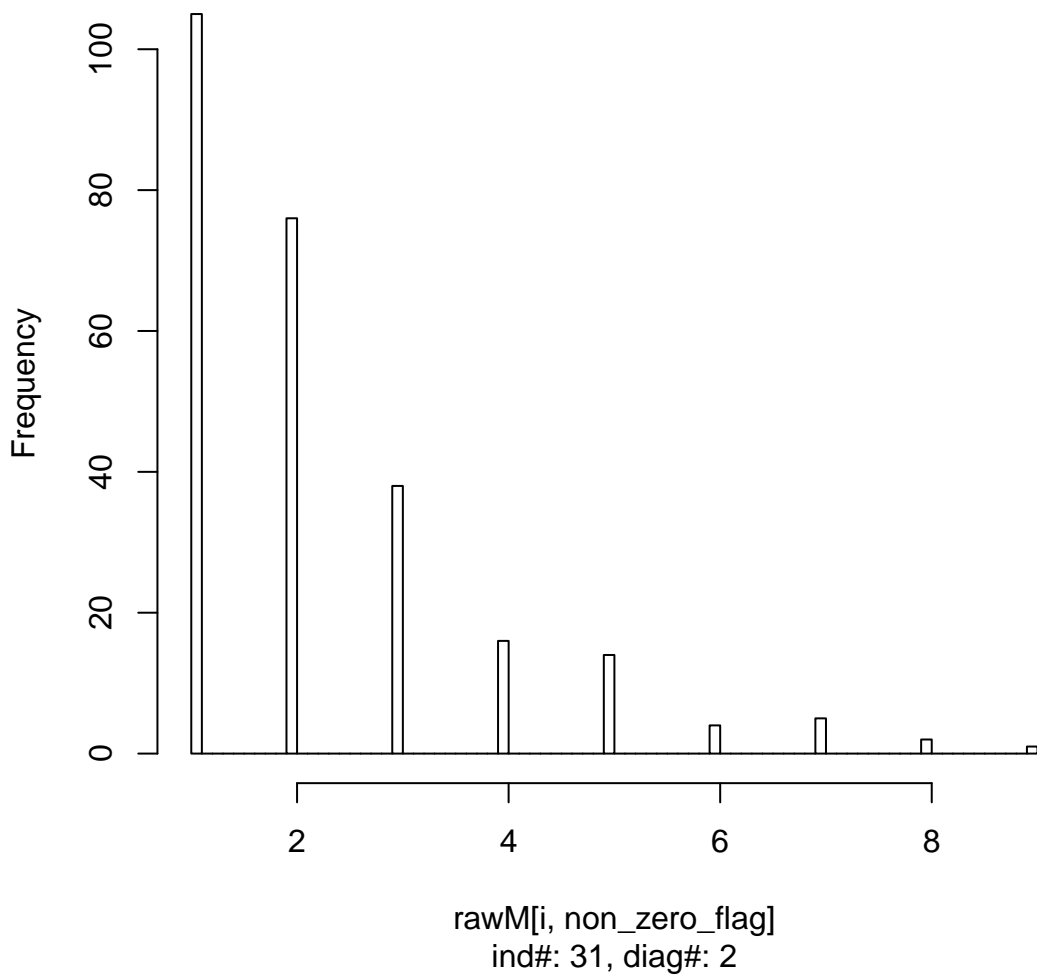
less sig: log expression of gene#47, pval ob=0.1931, non-zero nu



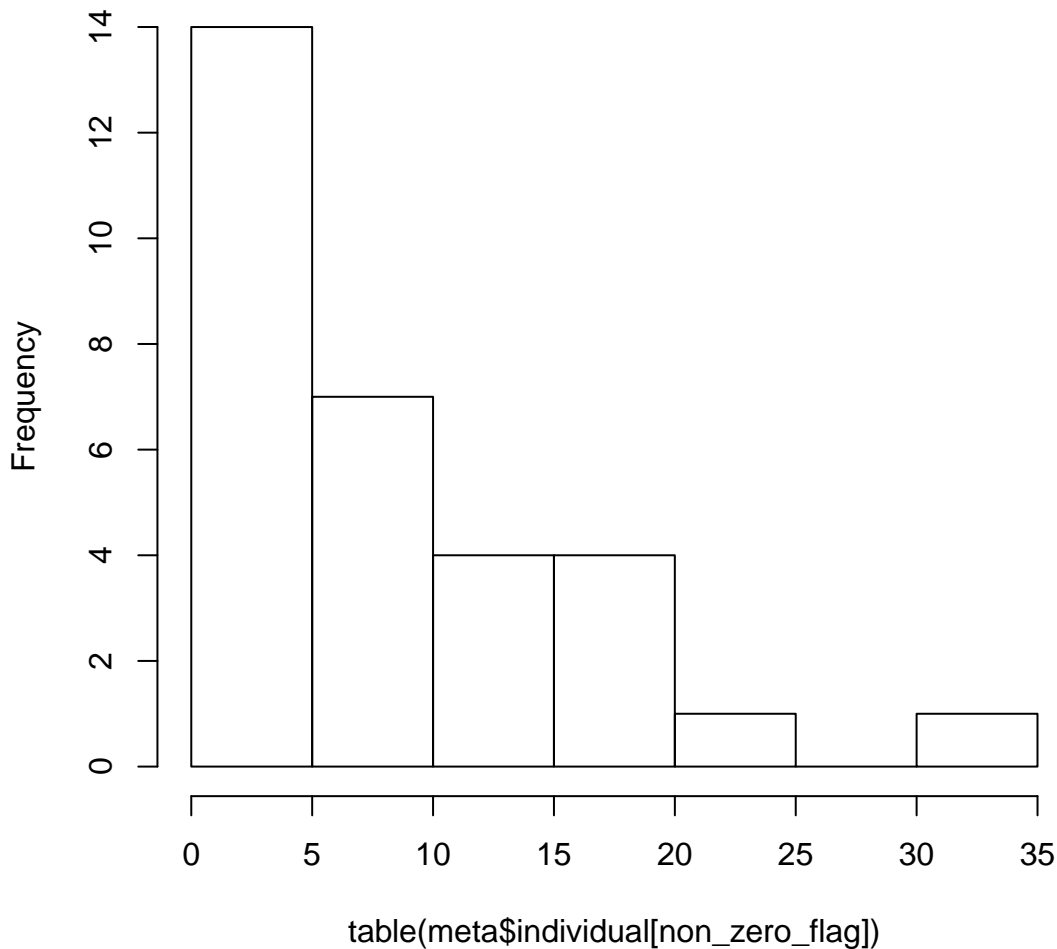
KSless sig: individual expression cell count of gene#47



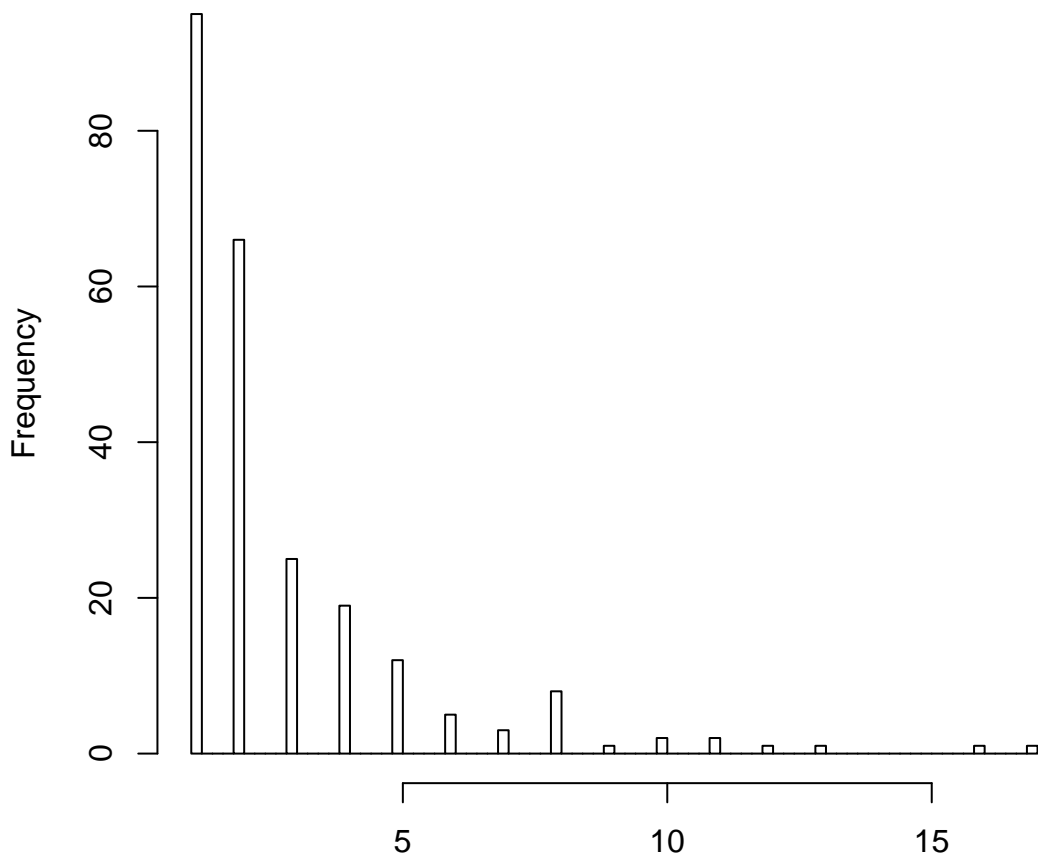
less sig: log expression of gene#51, pval ob=0.1994, non-zero nu



KSless sig: individual expression cell count of gene#51

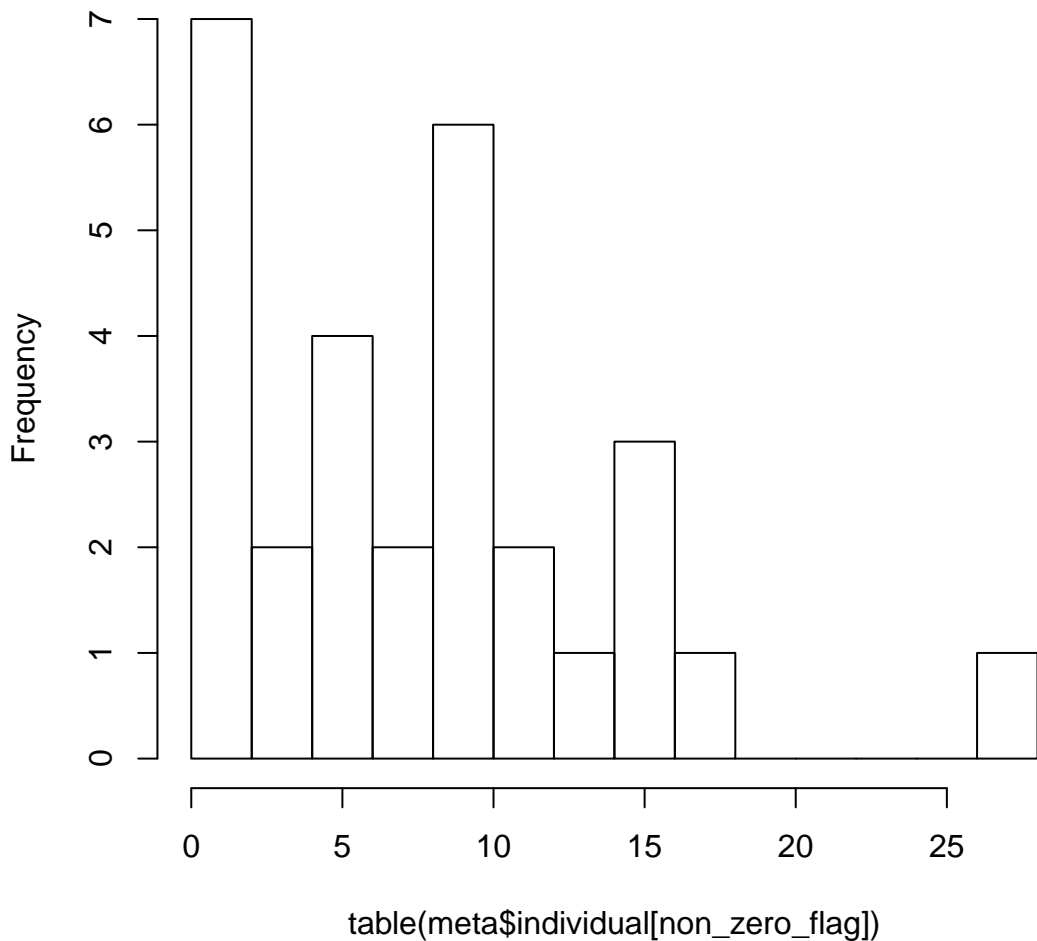


less sig: log expression of gene#52, pval ob=0.9793, non-zero nu

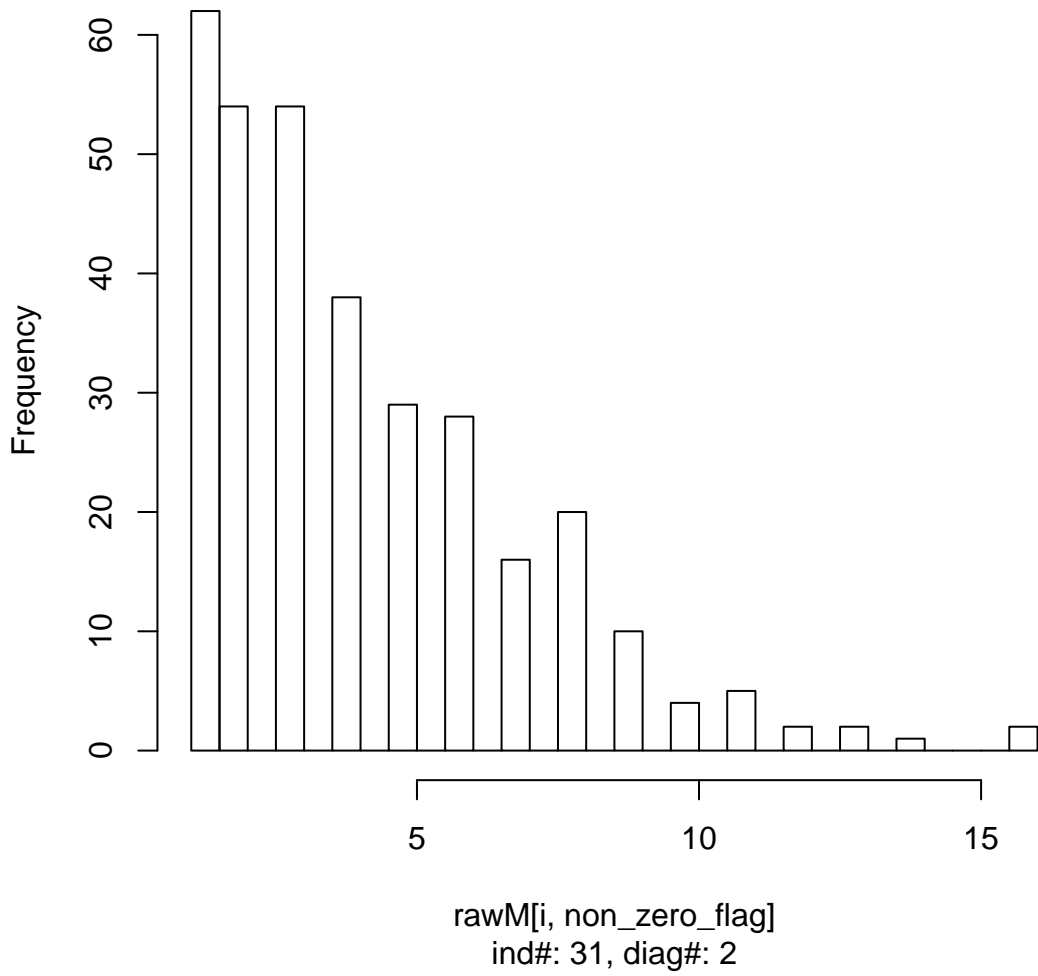


rawM[i, non_zero_flag]
ind#: 29, diag#: 2

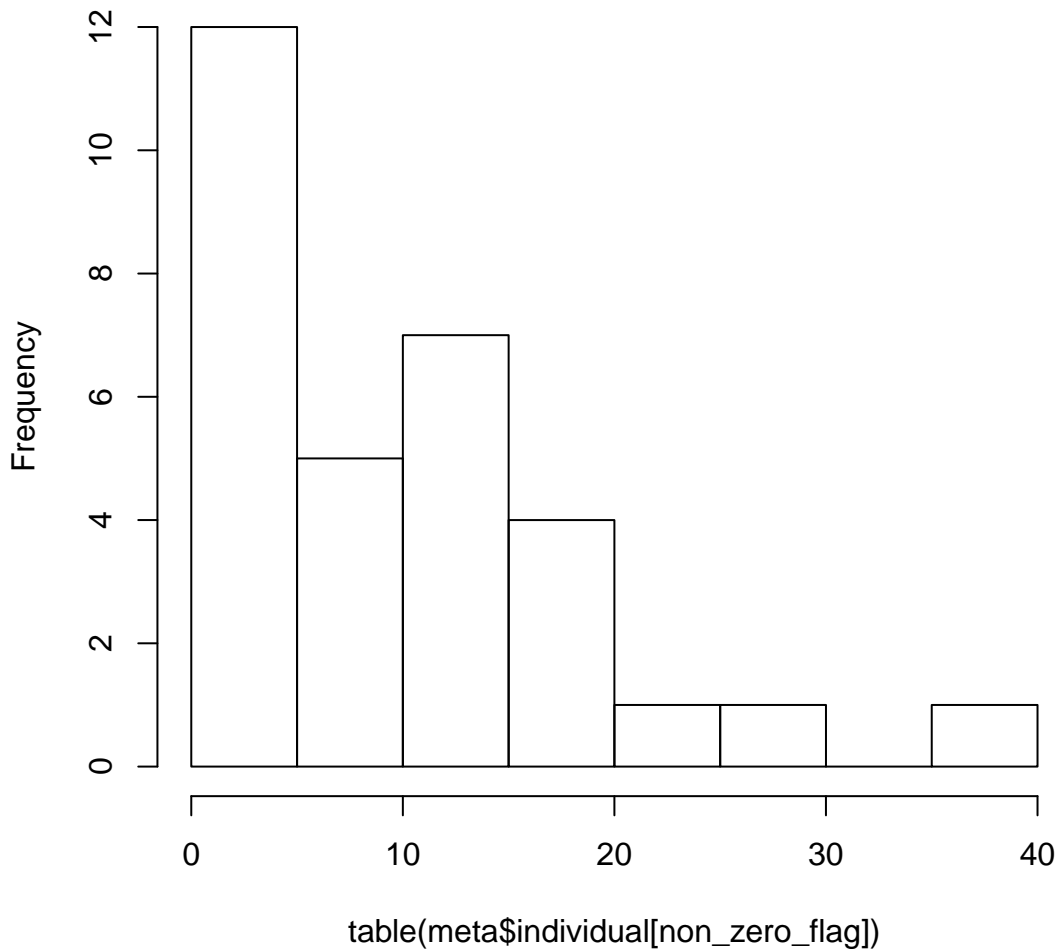
KSless sig: individual expression cell count of gene#52



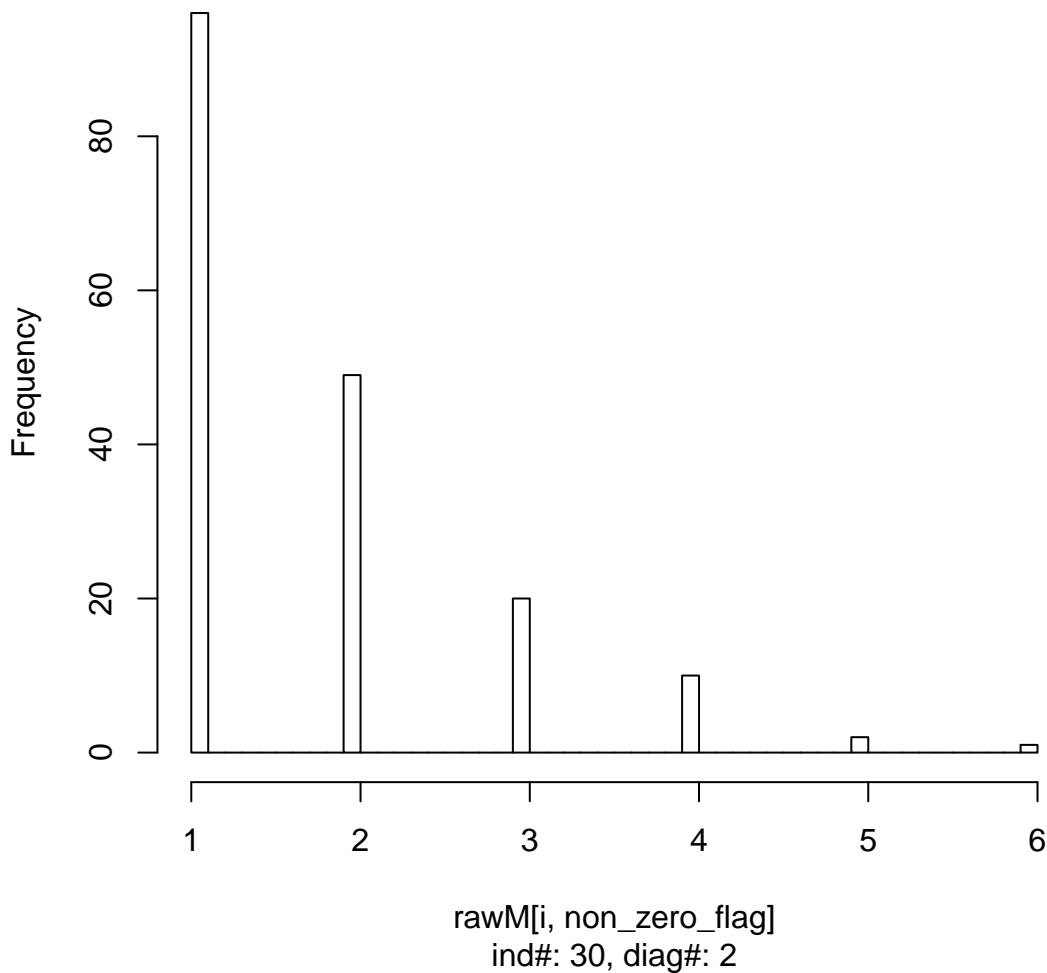
S nonsig: log expression of gene#1, pval ob=0.9918, non-zero num



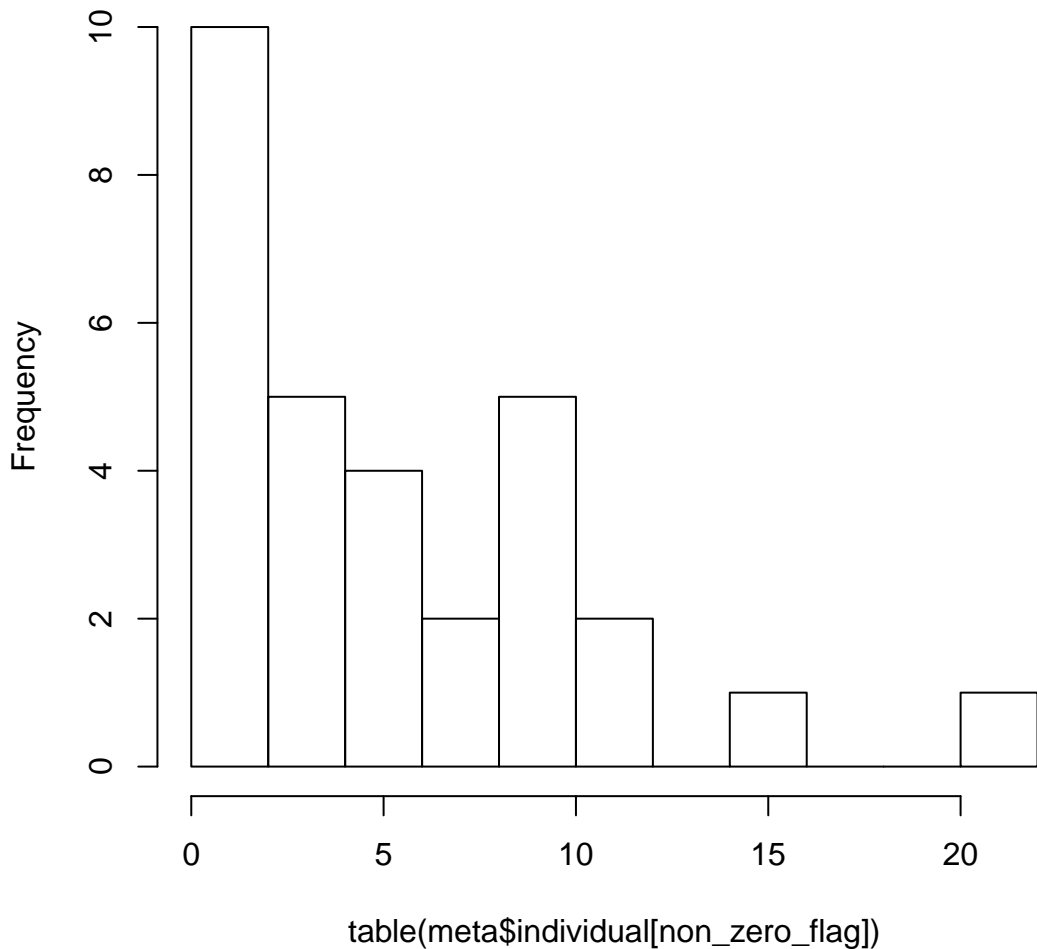
KSless nonsig: individual expression cell count of gene#1



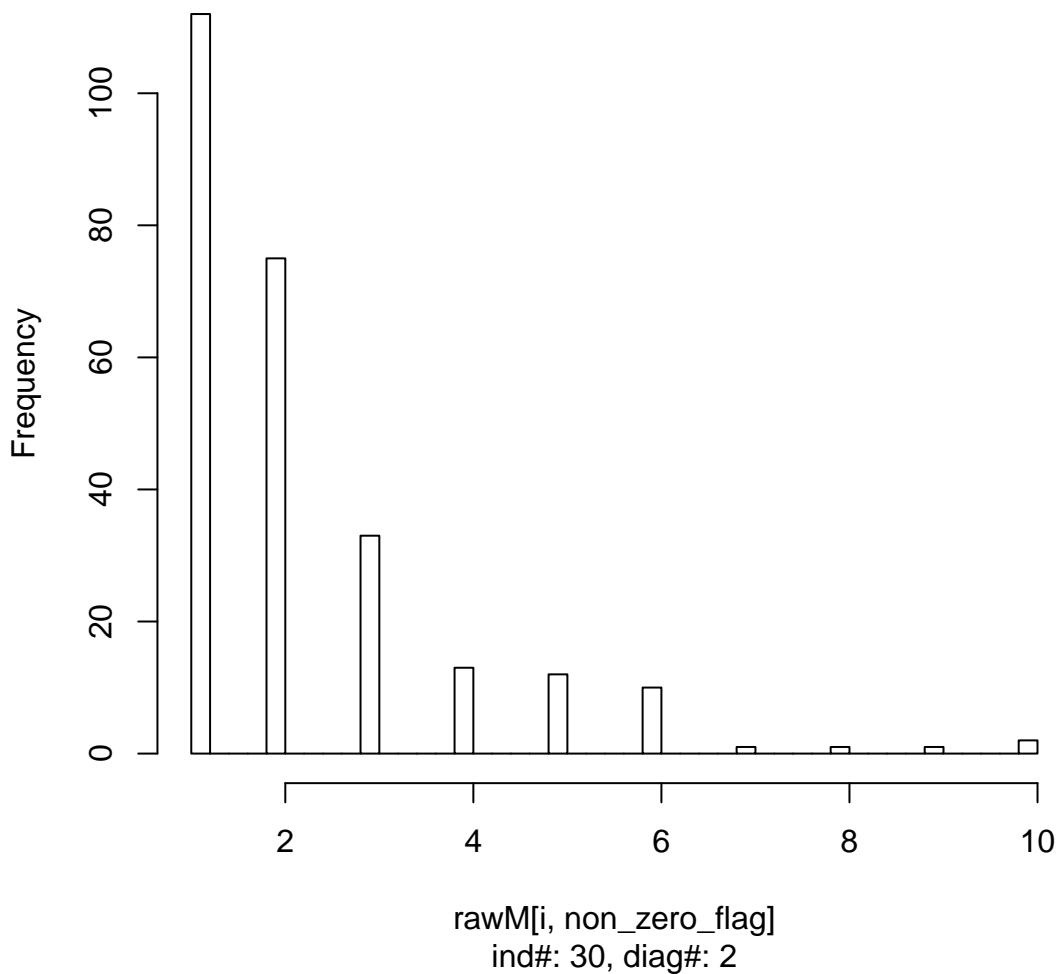
S nonsig: log expression of gene#4, pval ob=0.7225, non-zero nu



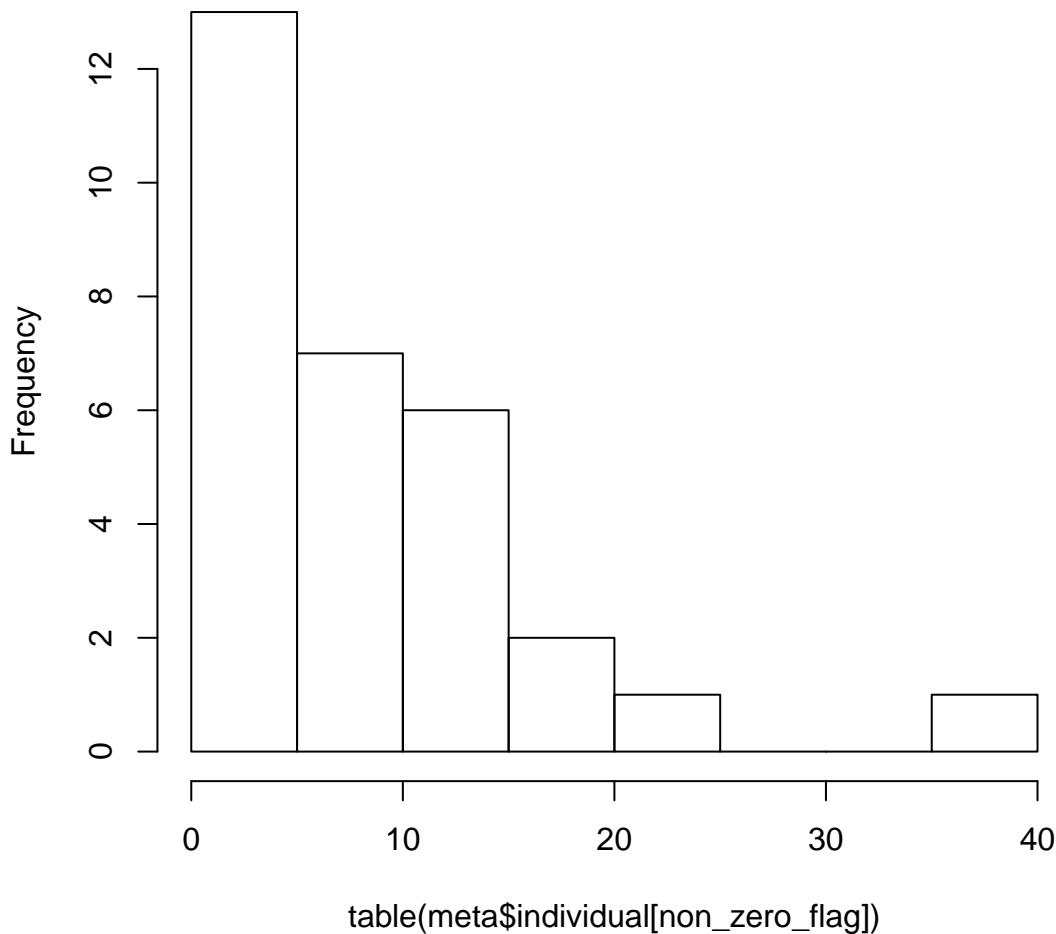
KSless nonsig: individual expression cell count of gene#4



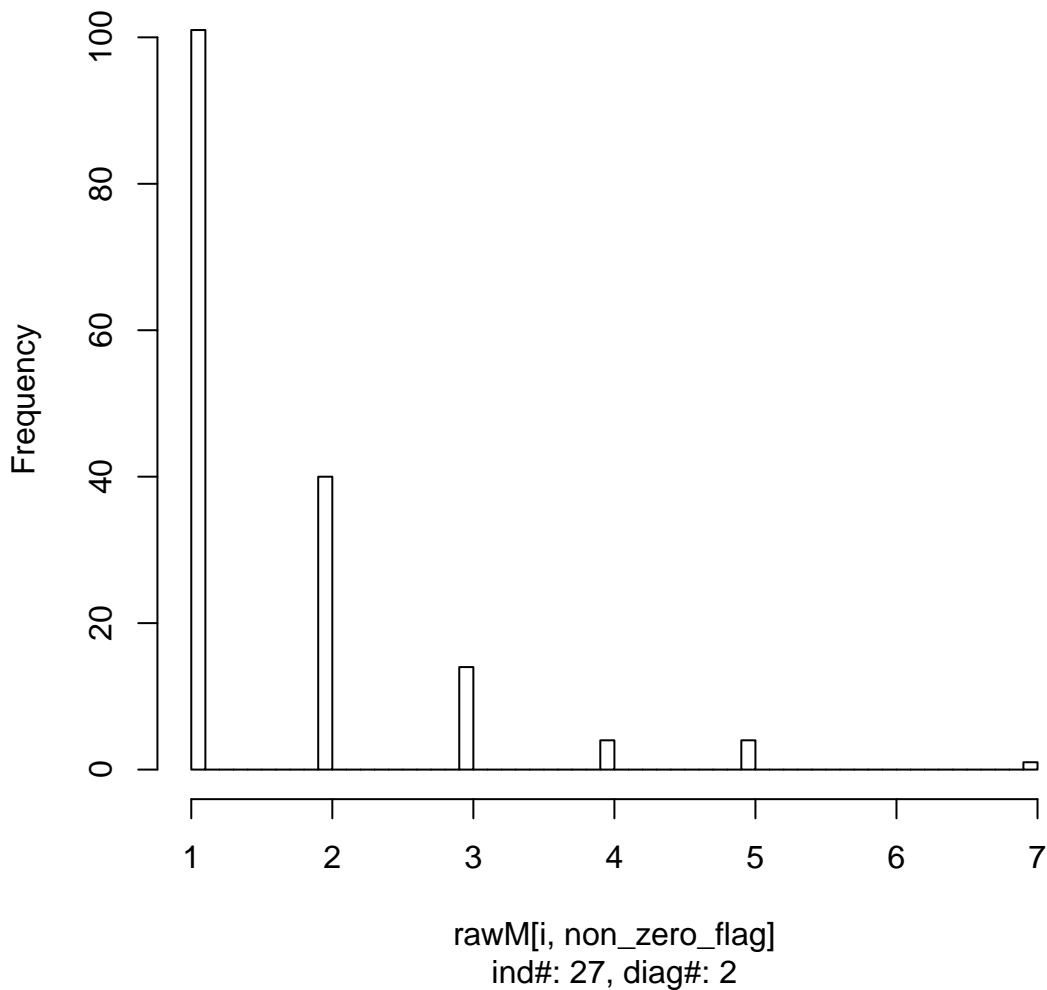
S nonsig: log expression of gene#7, pval ob=0.3251, non-zero num



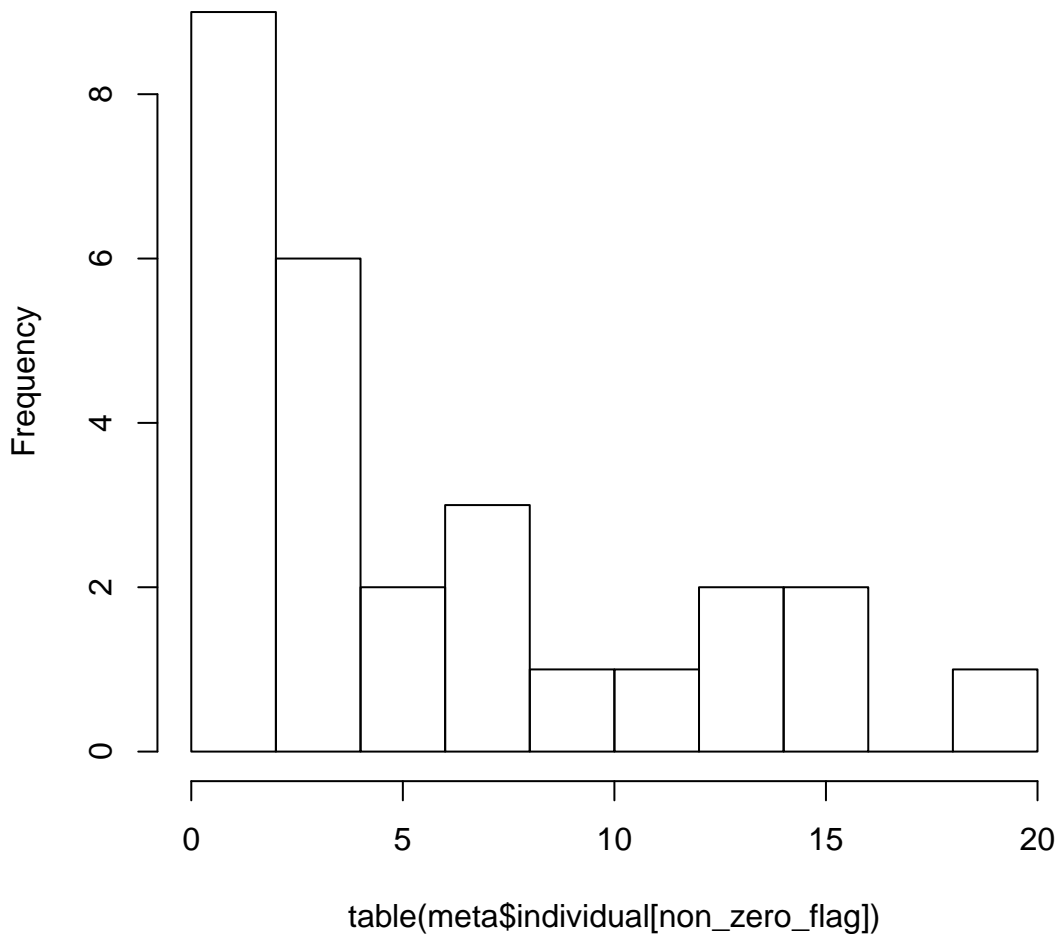
KSless nonsig: individual expression cell count of gene#7



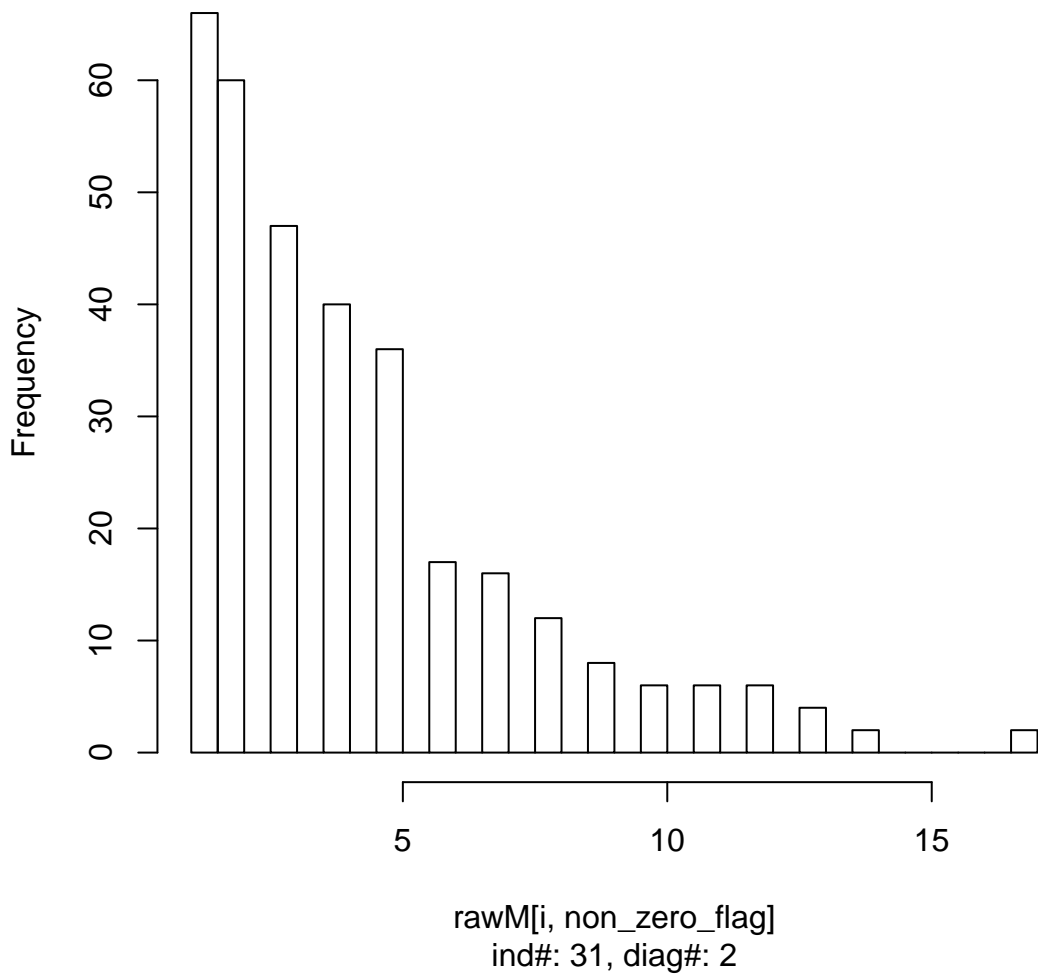
S nonsig: log expression of gene#9, pval ob=0.2614, non-zero nu



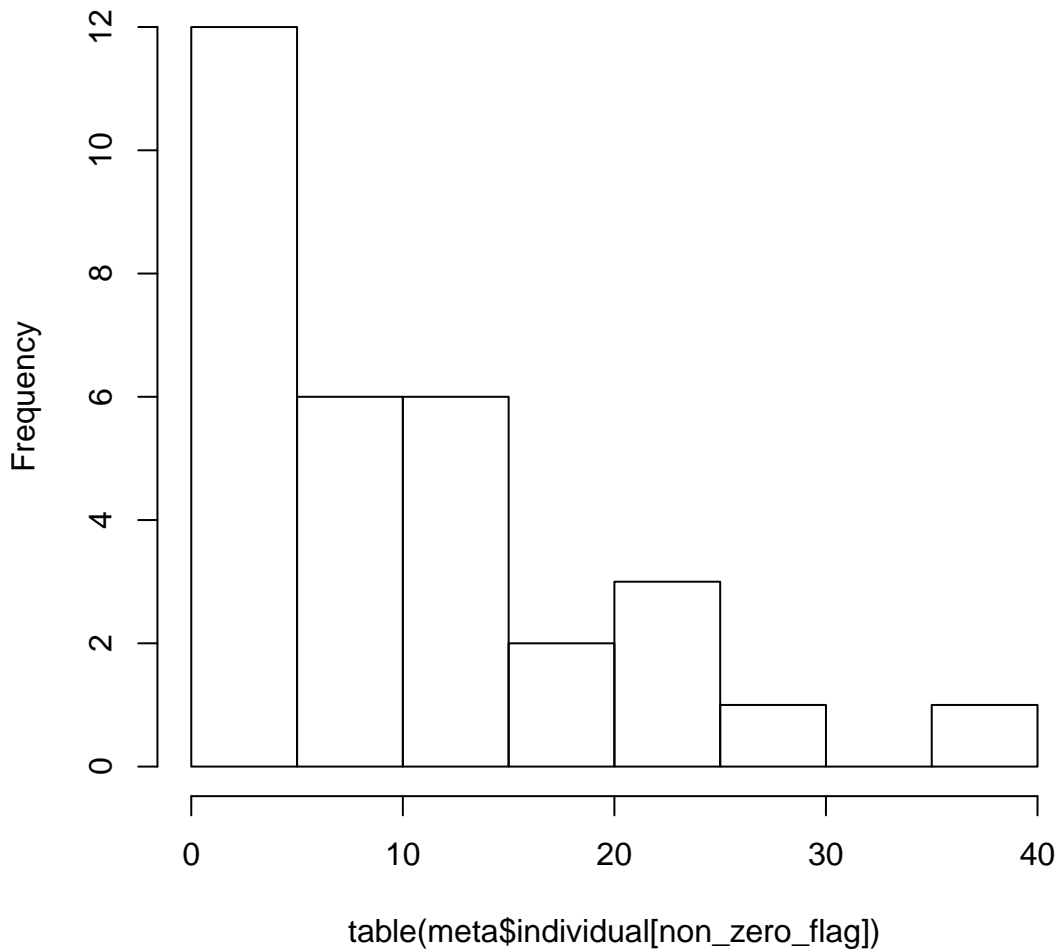
KSless nonsig: individual expression cell count of gene#9



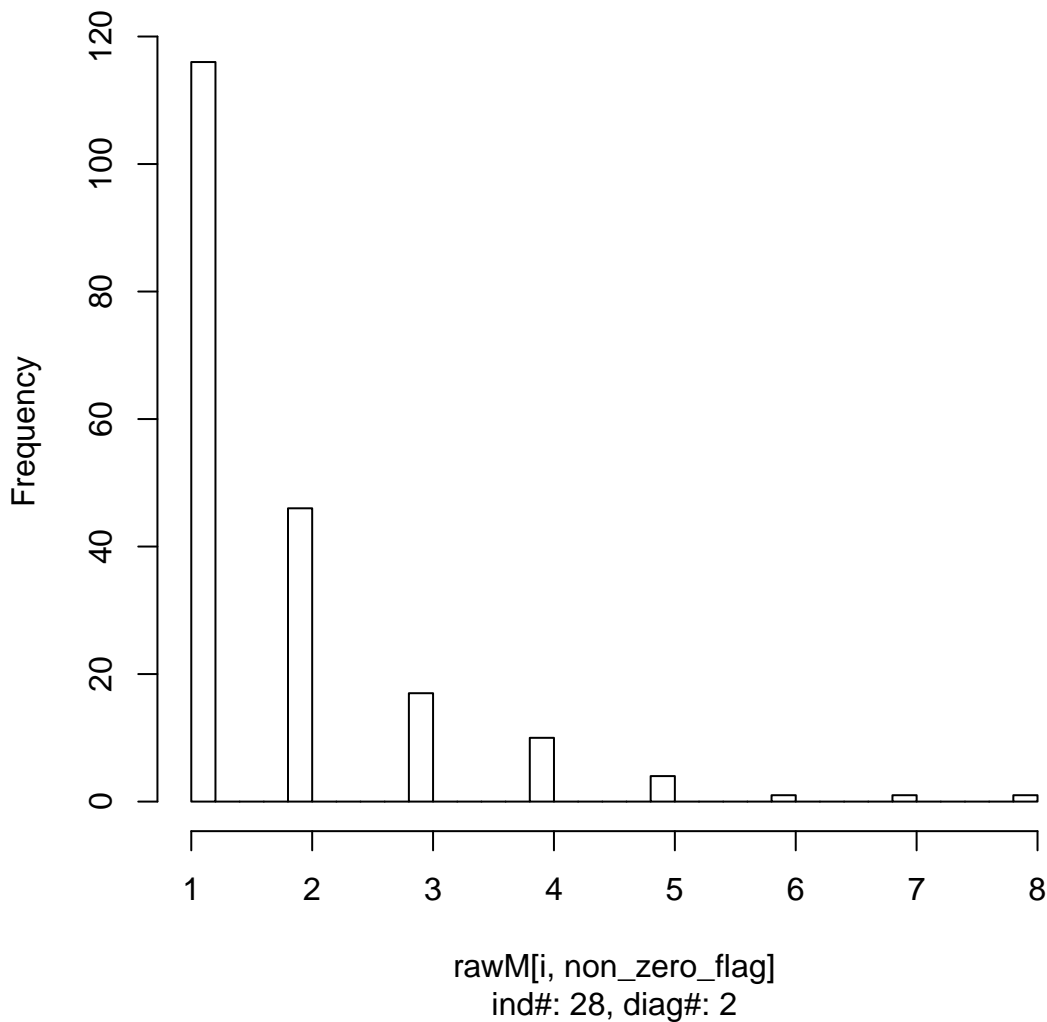
nsig: log expression of gene#13, pval ob=0.6178, non-zero nu



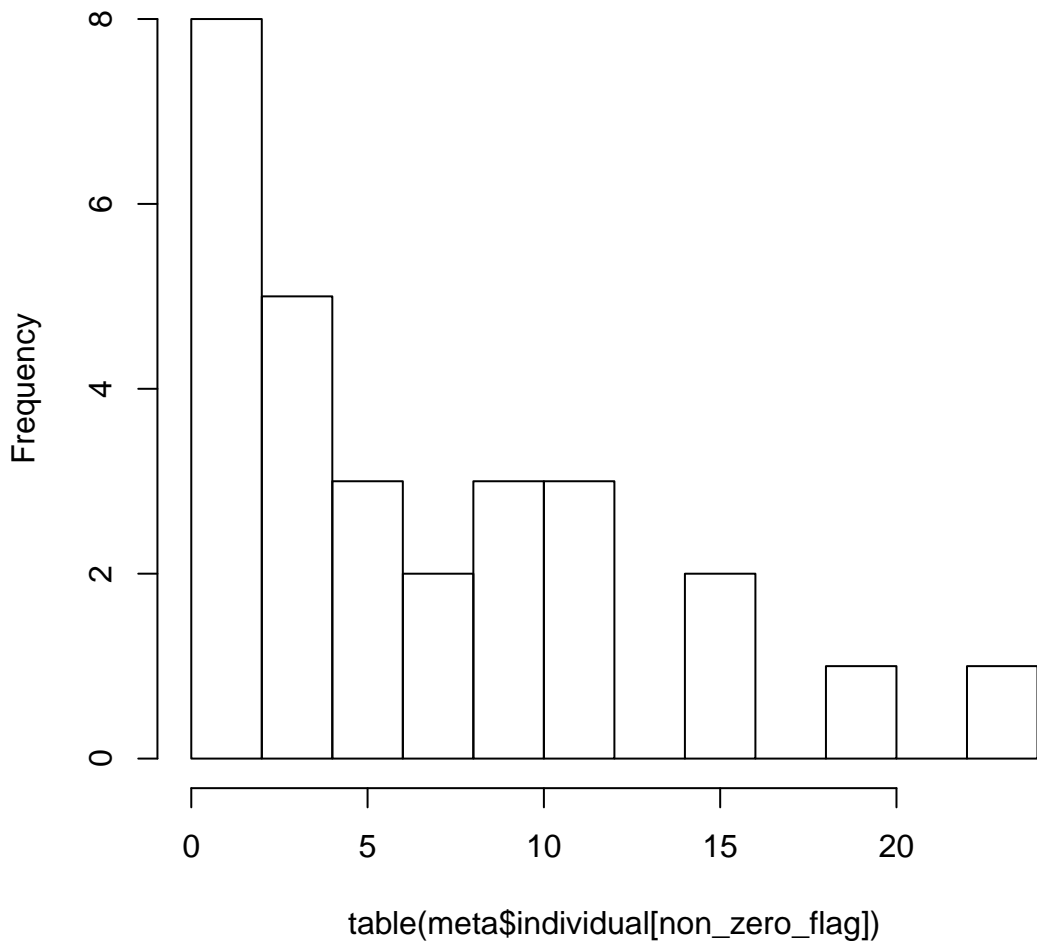
KSless nonsig: individual expression cell count of gene#13



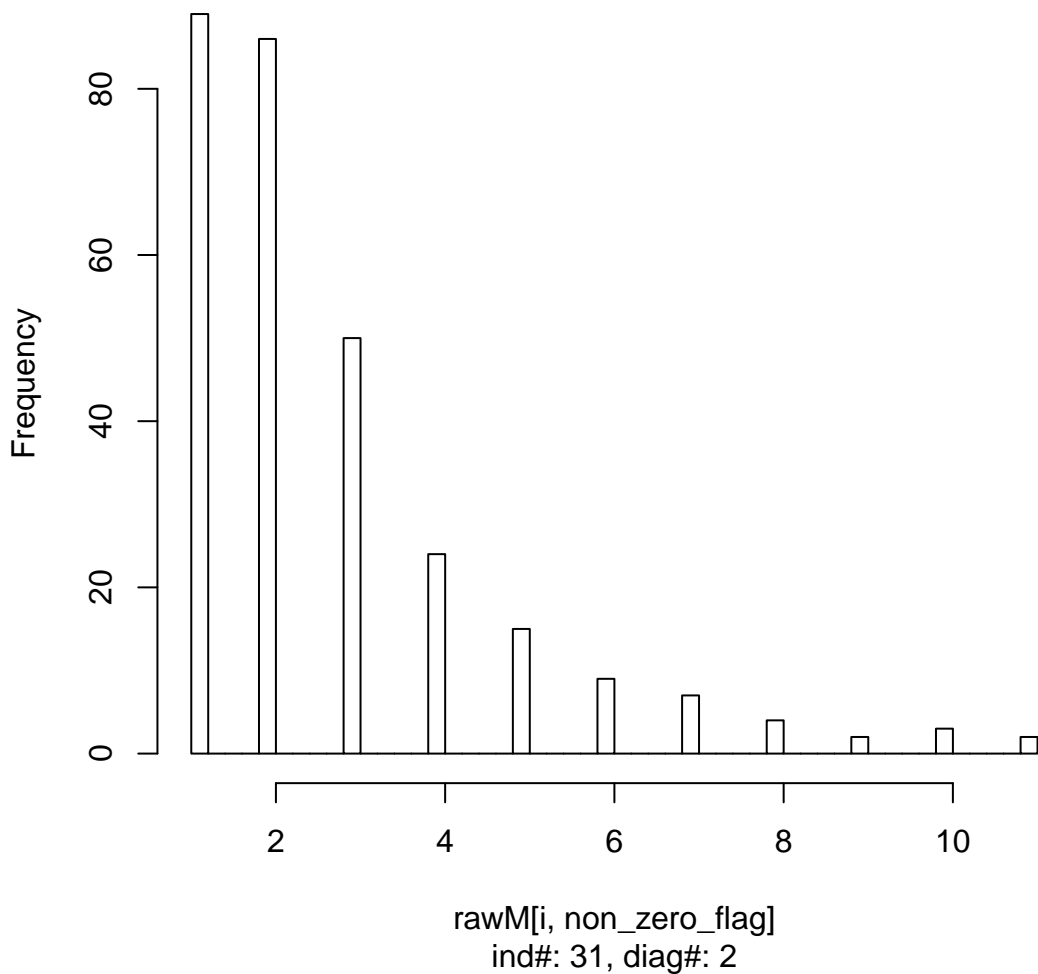
S nonsig: log expression of gene#14, pval ob=0.232, non-zero num



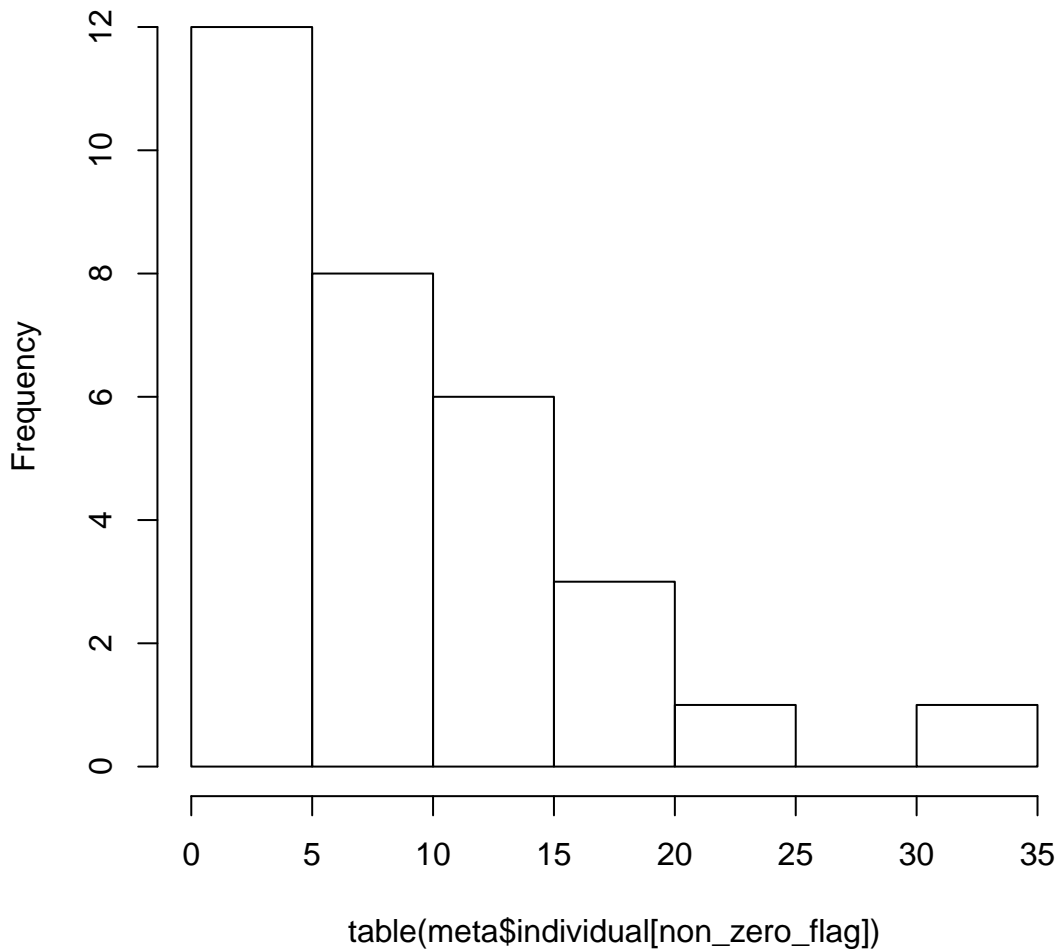
KSless nonsig: individual expression cell count of gene#14



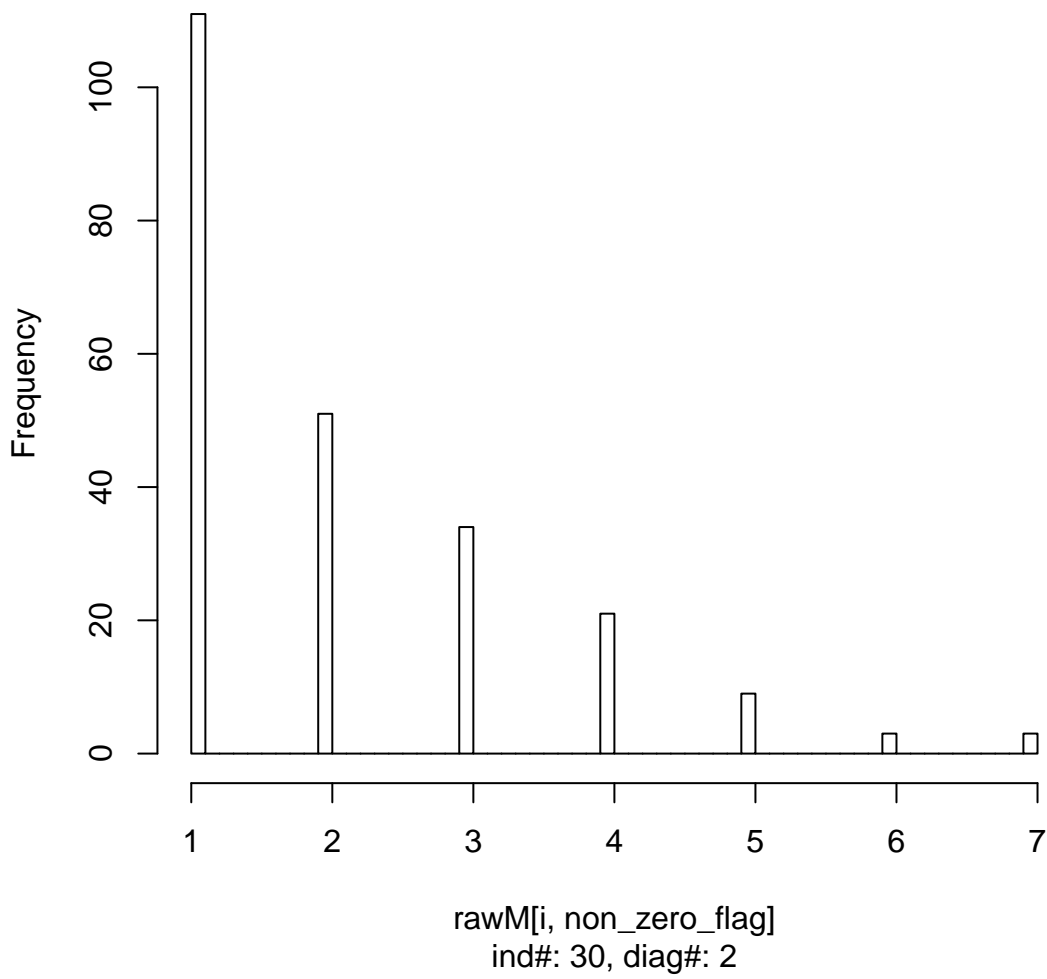
nsig: log expression of gene#16, pval ob=0.1451, non-zero nu



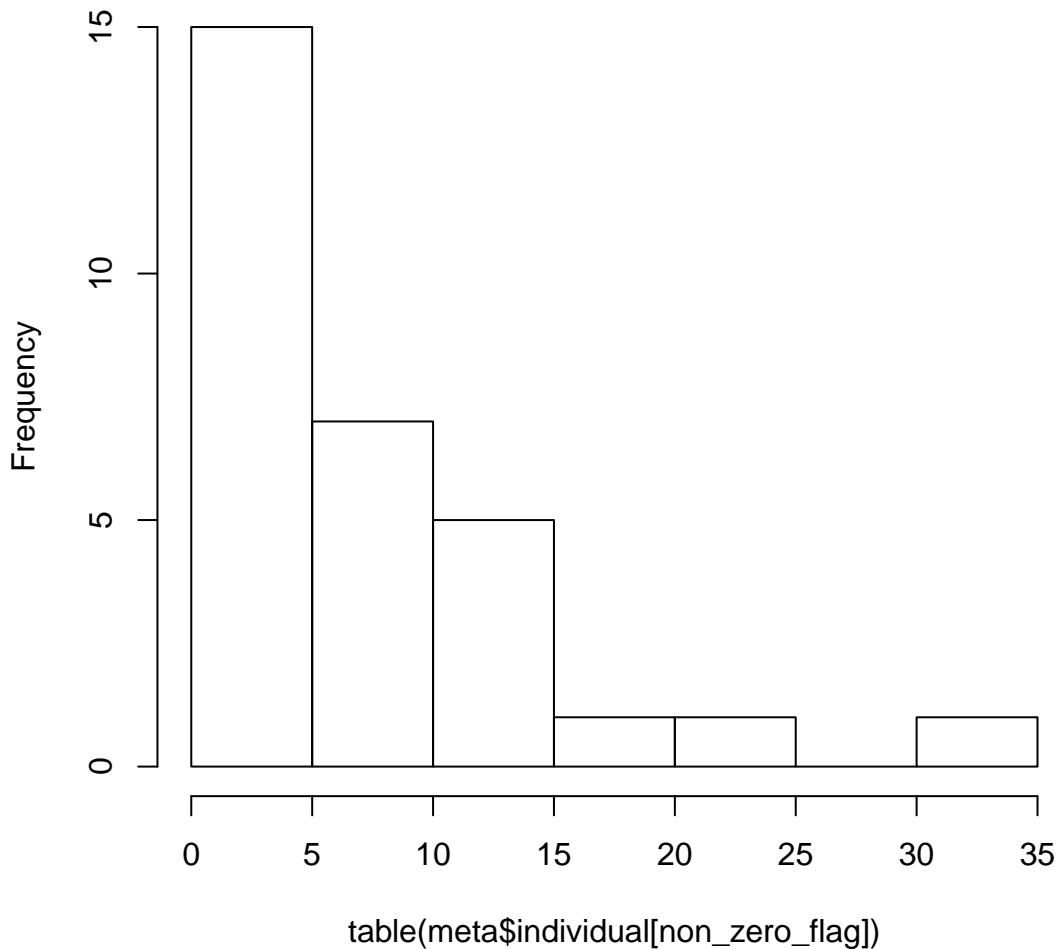
KSless nonsig: individual expression cell count of gene#16



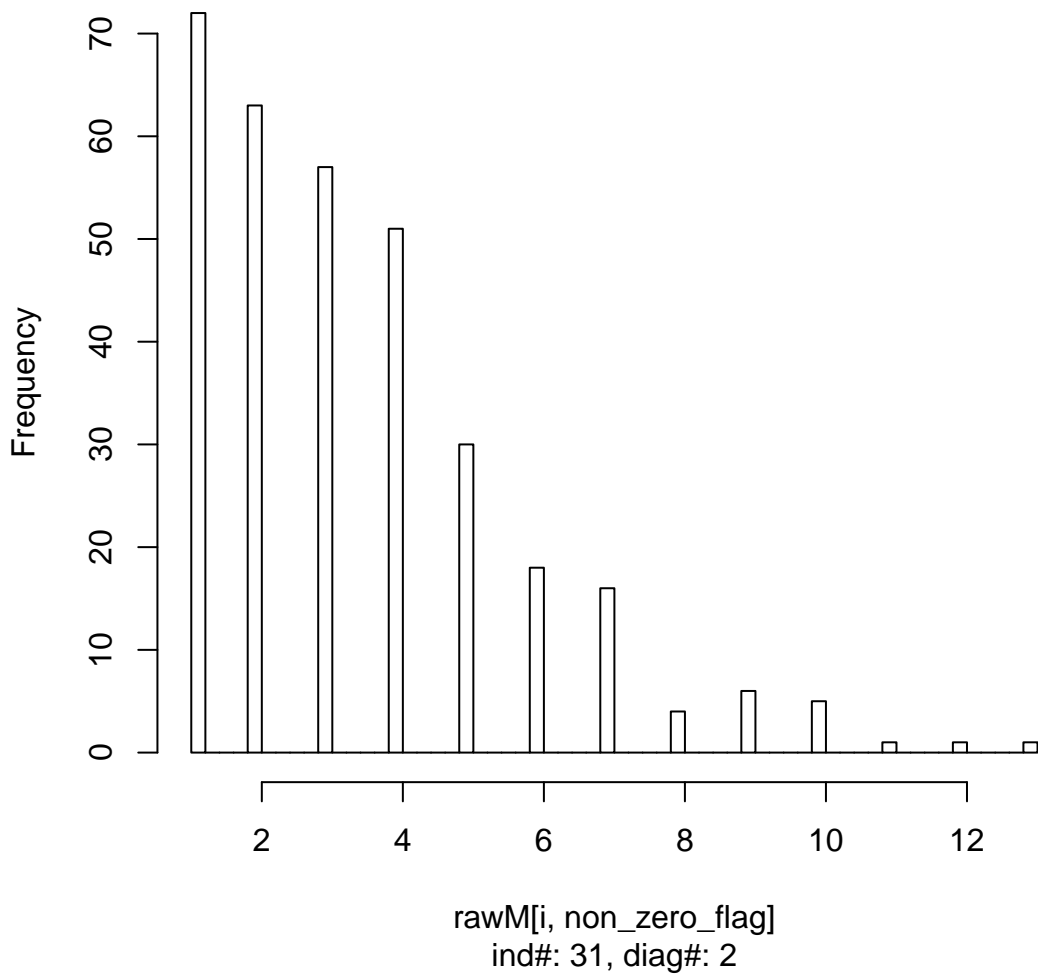
nsig: log expression of gene#17, pval ob=0.8925, non-zero nu



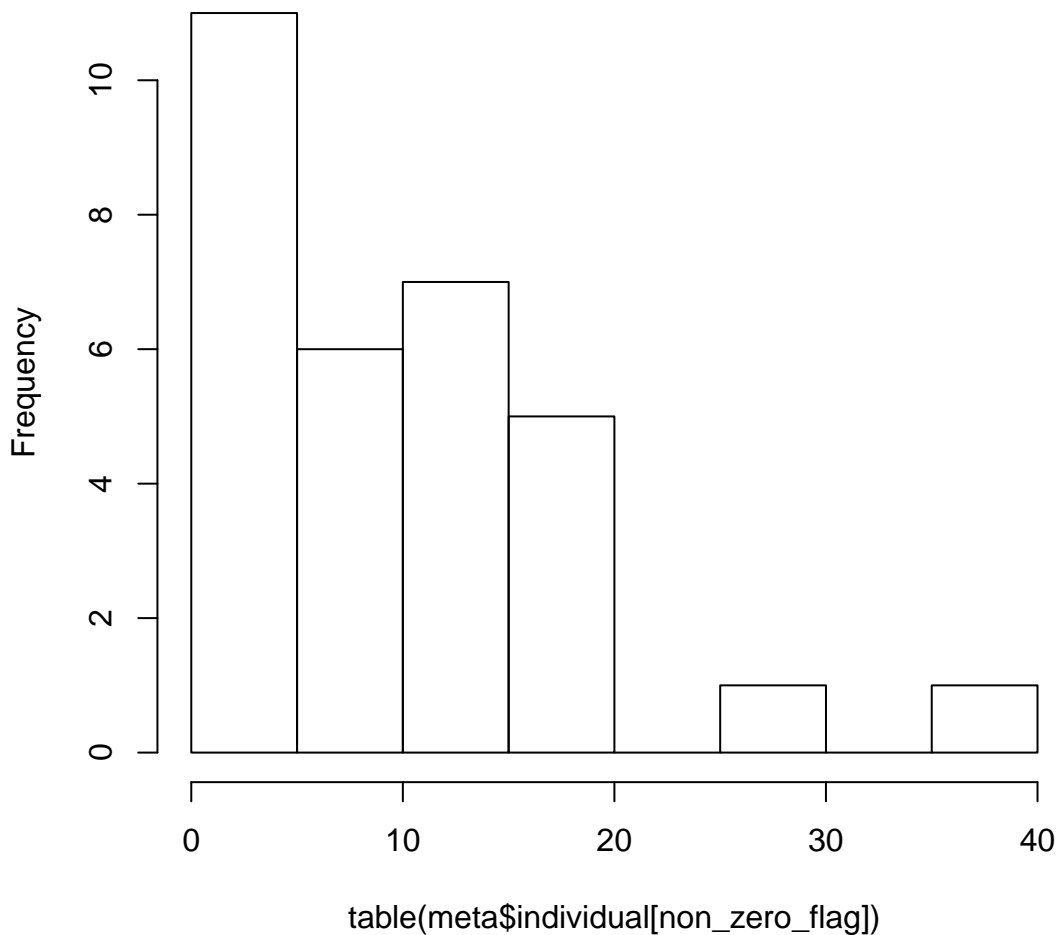
KSless nonsig: individual expression cell count of gene#17



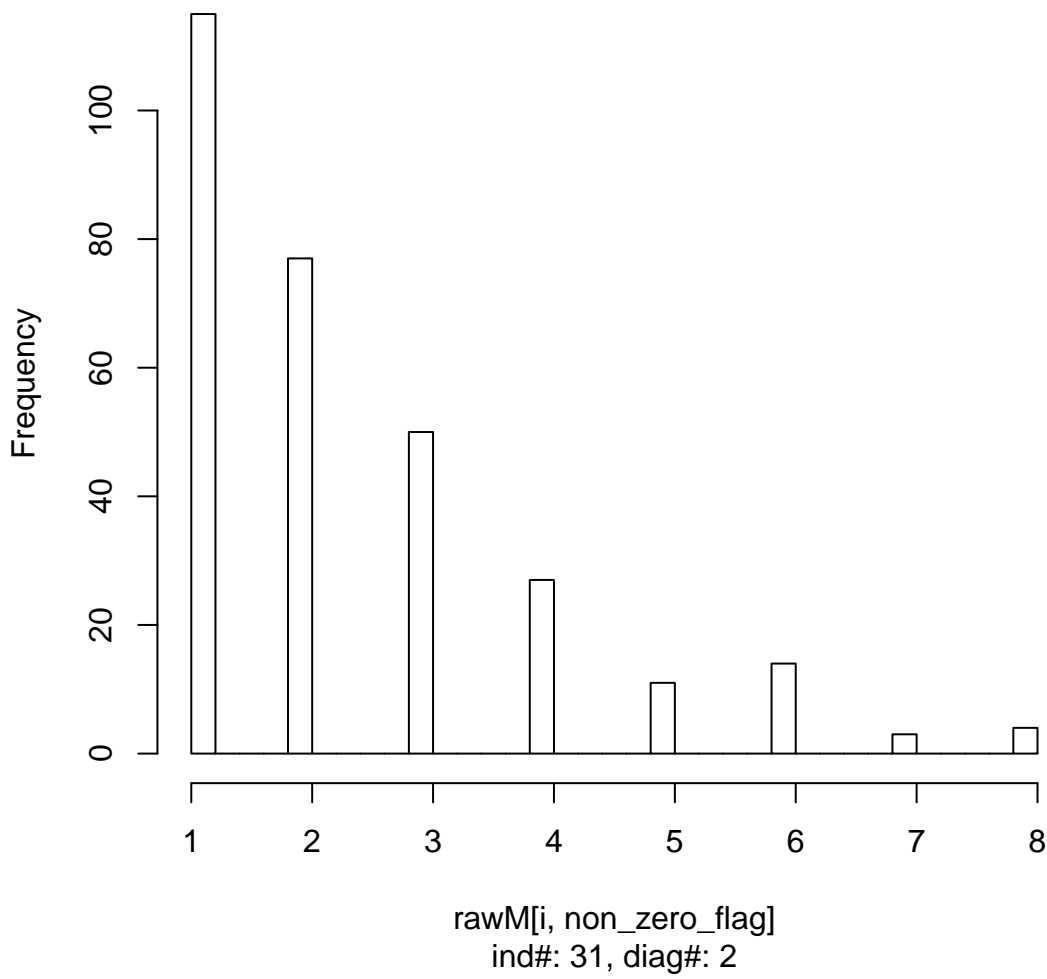
nsig: log expression of gene#19, pval ob=0.5411, non-zero nu



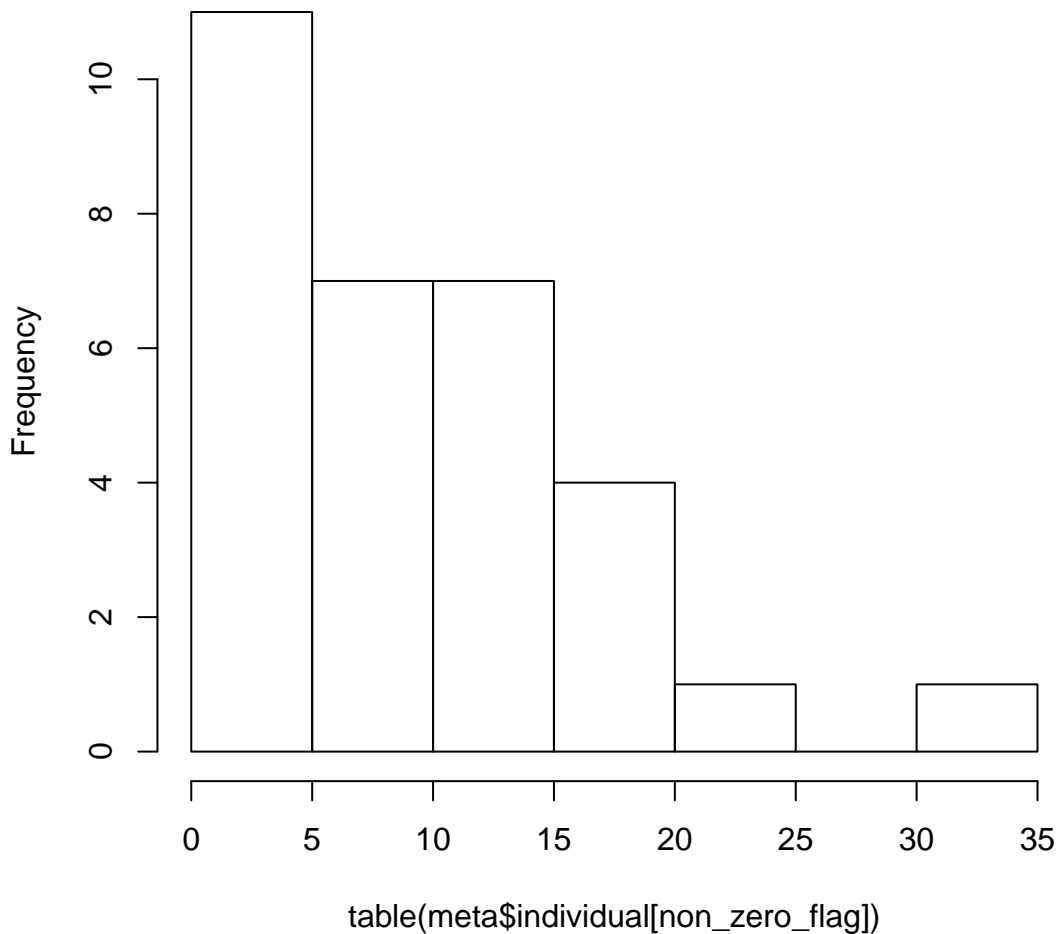
KSless nonsig: individual expression cell count of gene#19



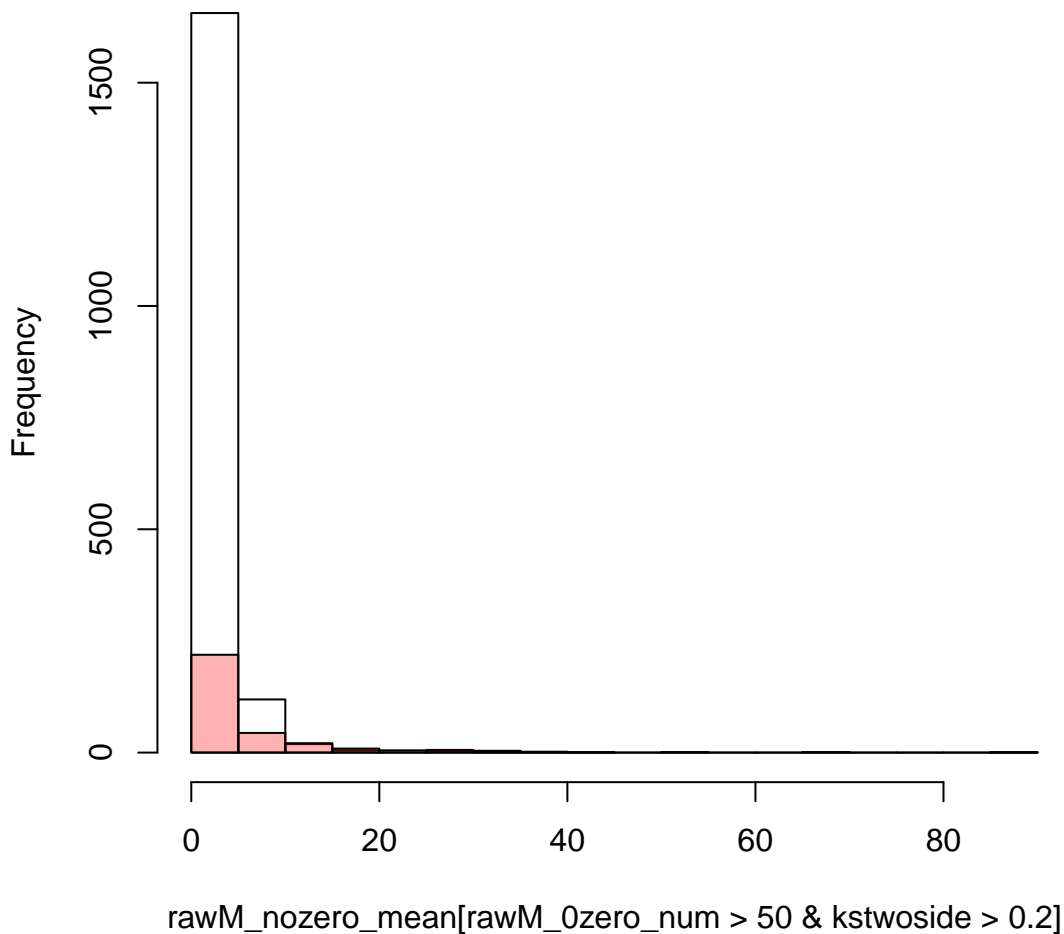
nsig: log expression of gene#21, pval ob=0.3071, non-zero nu



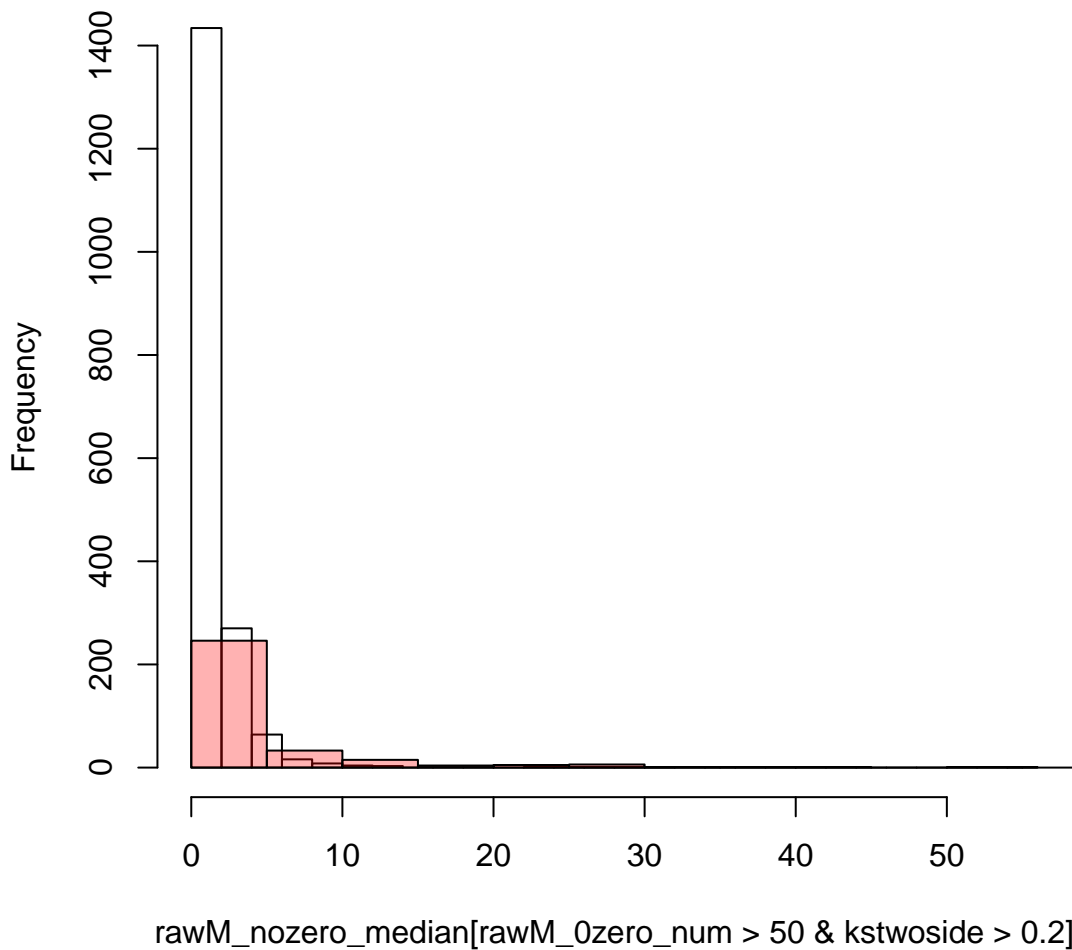
KSless nonsig: individual expression cell count of gene#21



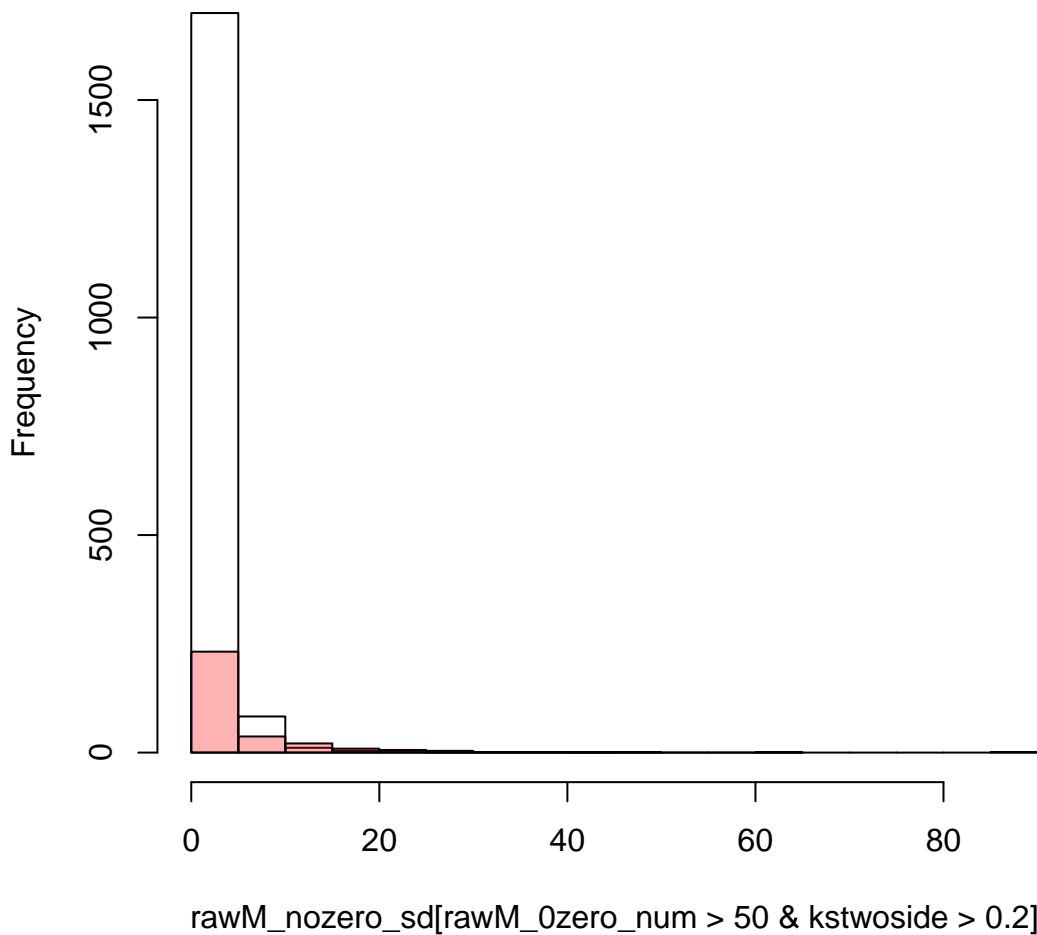
Histogram of rawM_nozero_mean[rawM_0zero_num > 50 & kstwsid



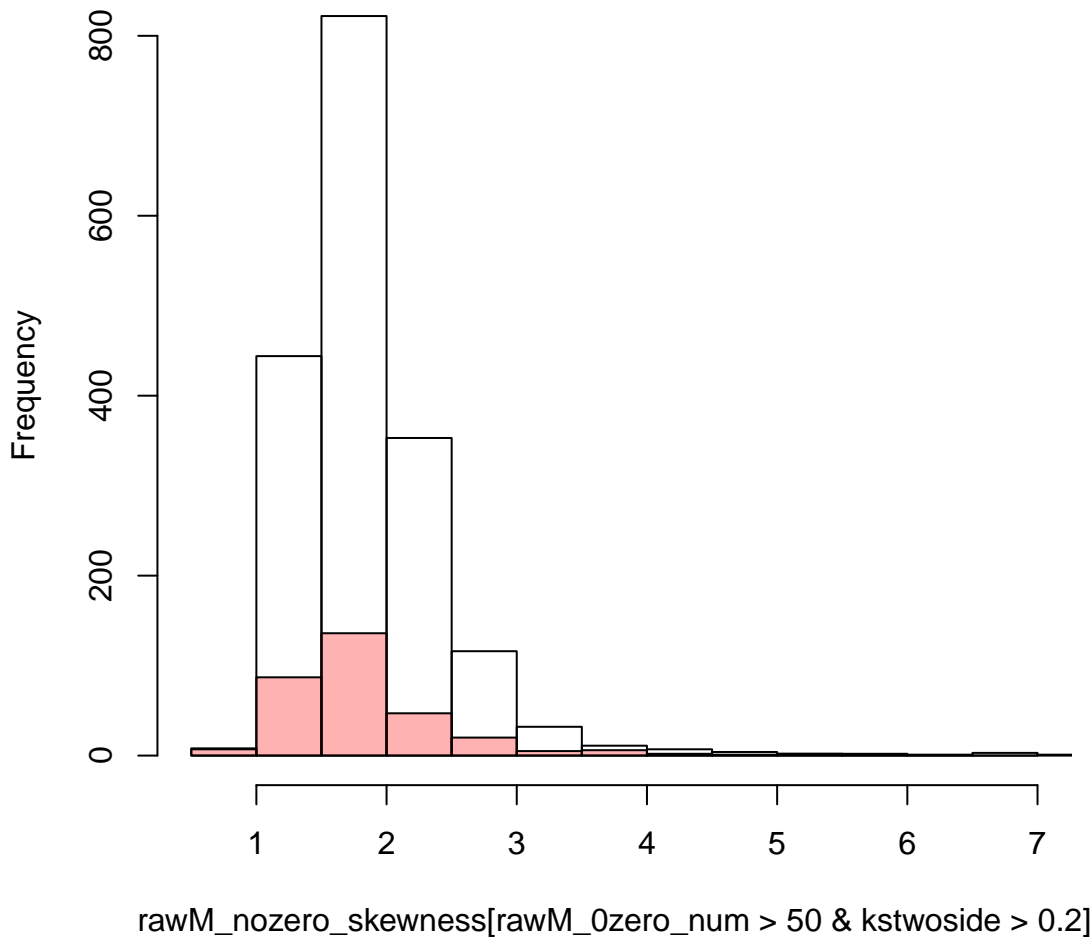
ogram of rawM_nozero_median[rawM_0zero_num > 50 & kstwosi



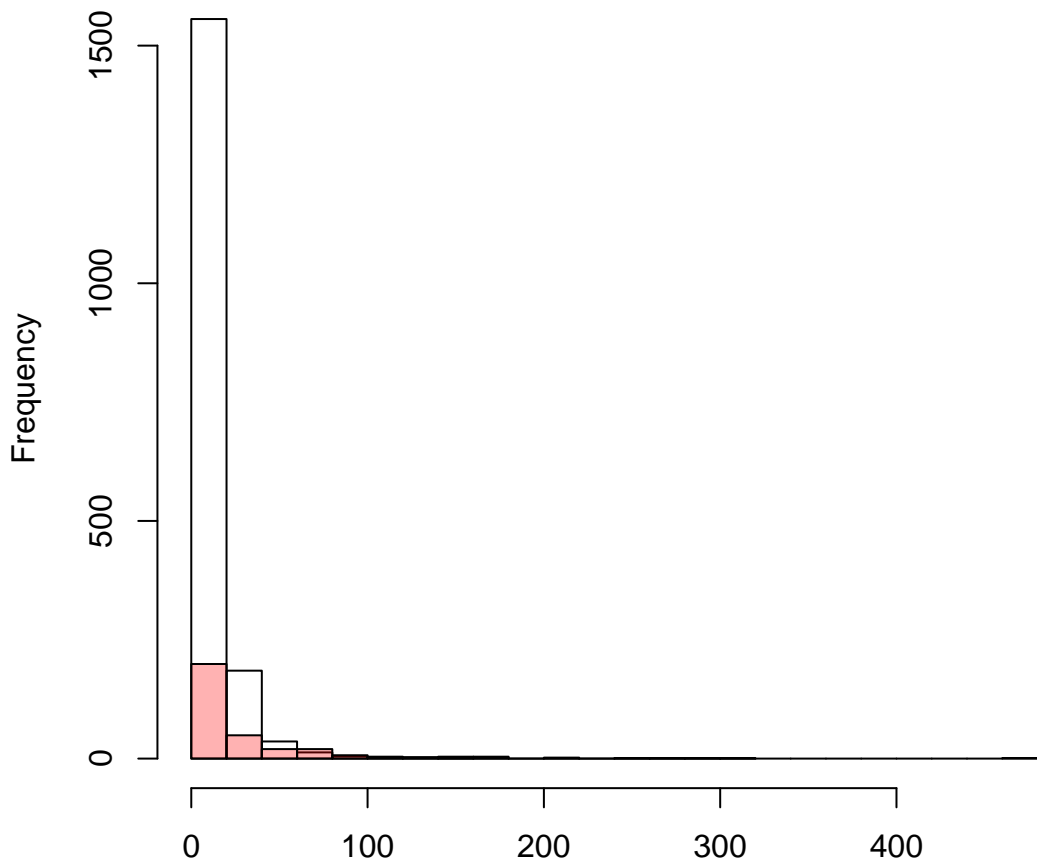
histogram of rawM_nozero_sd[rawM_0zero_num > 50 & kstwside



gram of rawM_nozero_skewness[rawM_0zero_num > 50 & kstws

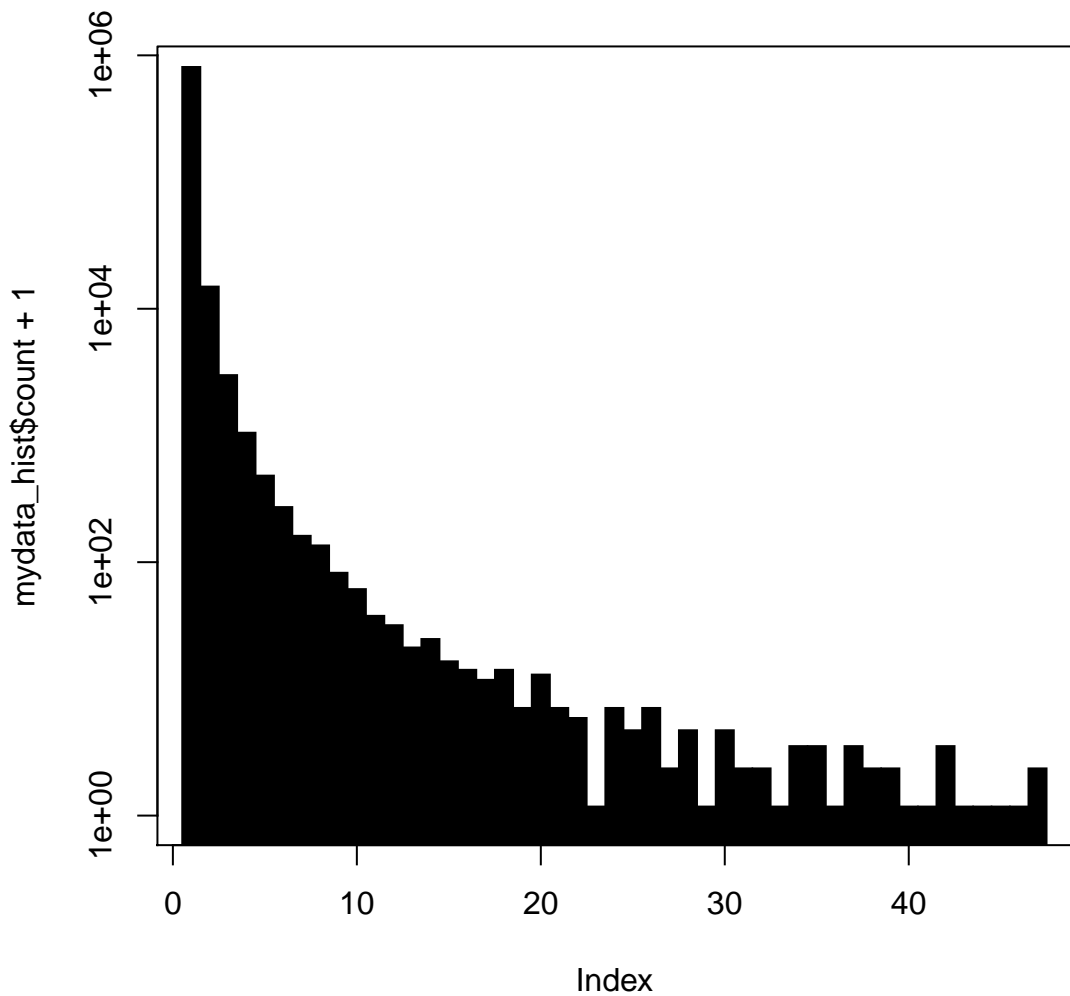


Histogram of rawM_nozero_max[rawM_0zero_num > 50 & kstwside

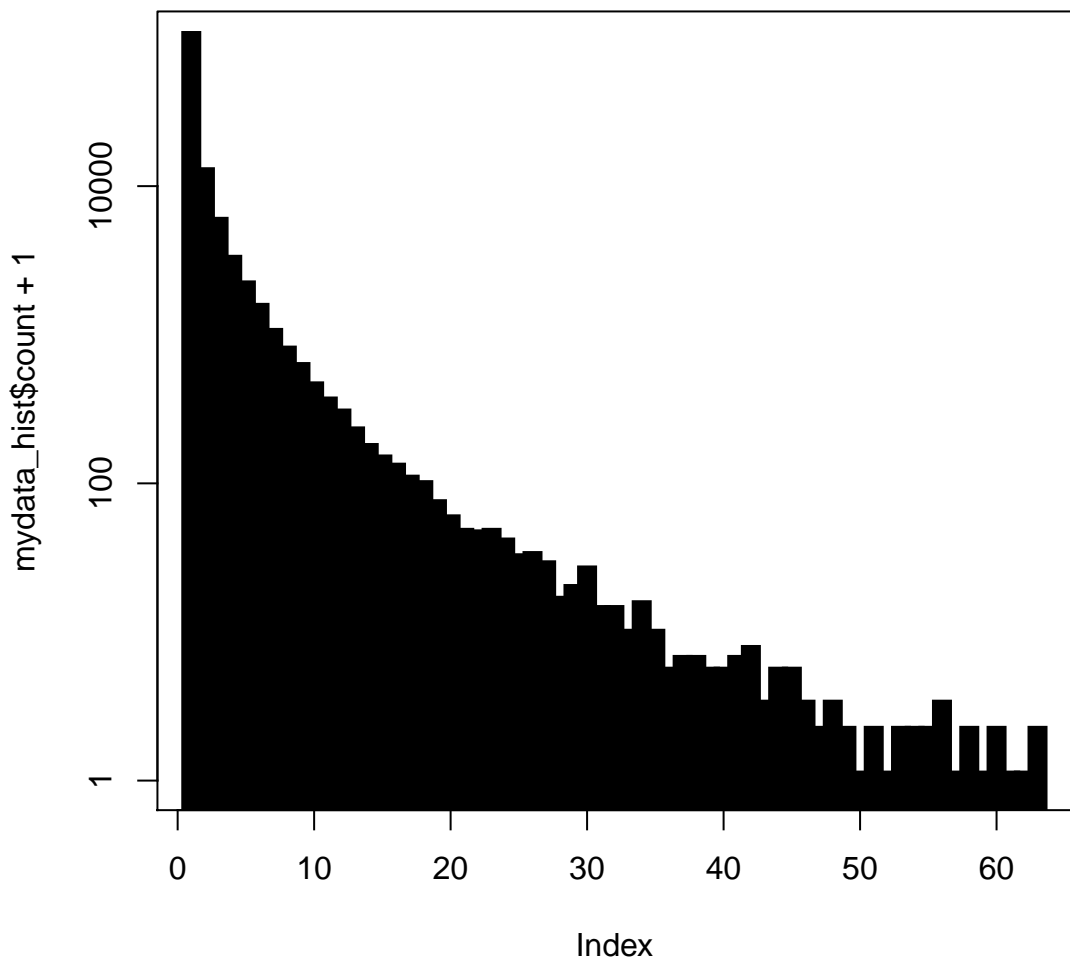


rawM_nozero_max[rawM_0zero_num > 50 & kstwside > 0.2]

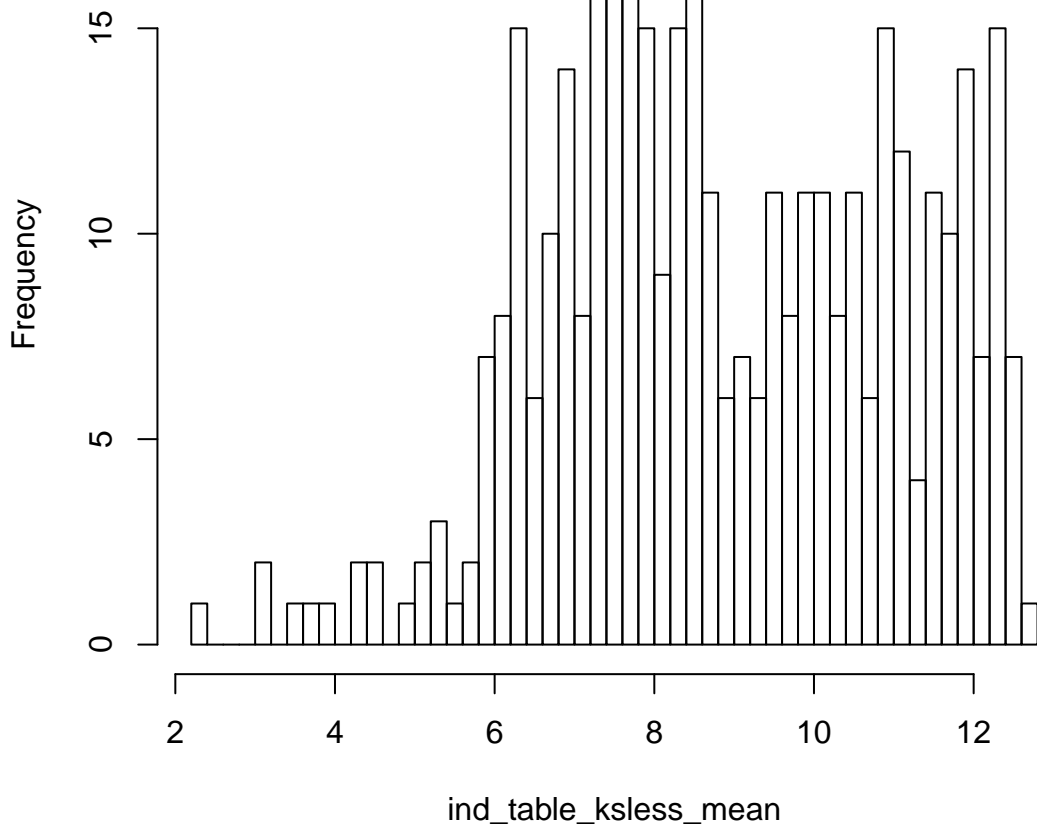
genes $\log(\text{expression} + 1)$ with least 50 cell expression and kstwosi



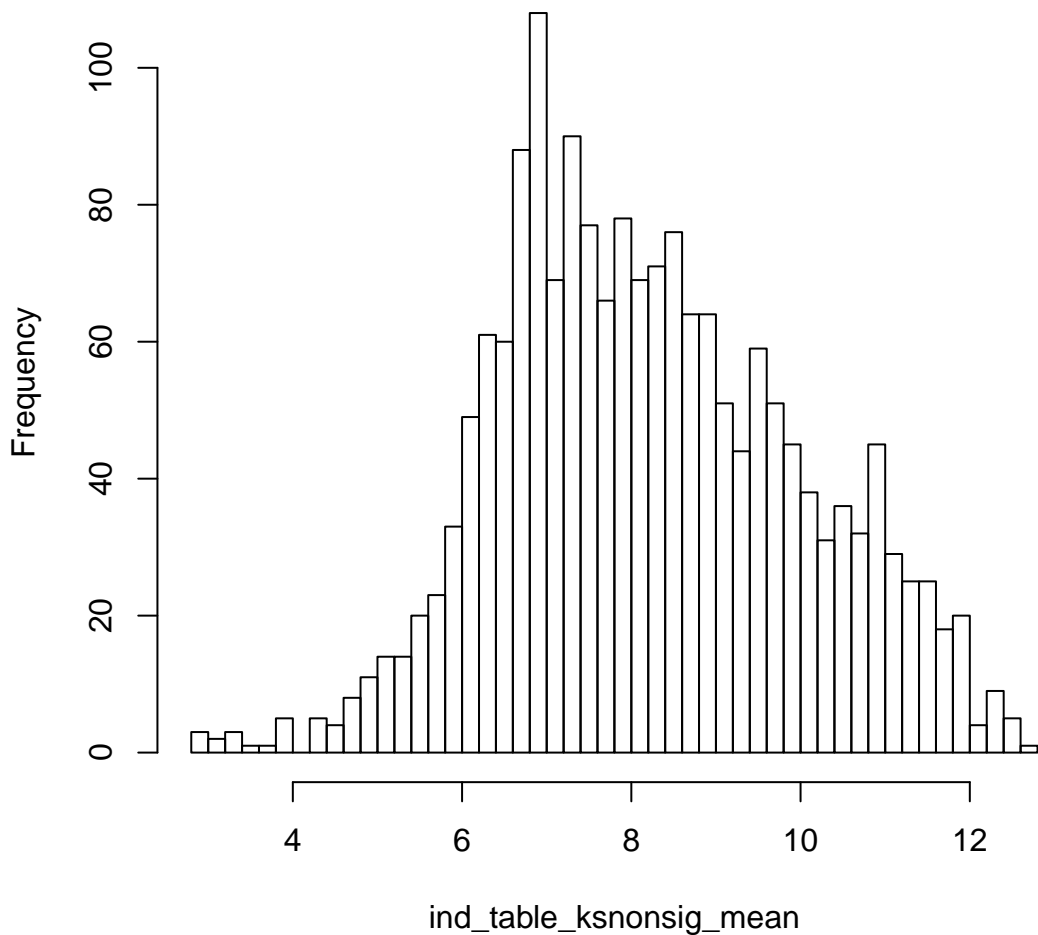
nes $\log(\text{expression} + 1)$ with least 50 cell expression and kstwsio



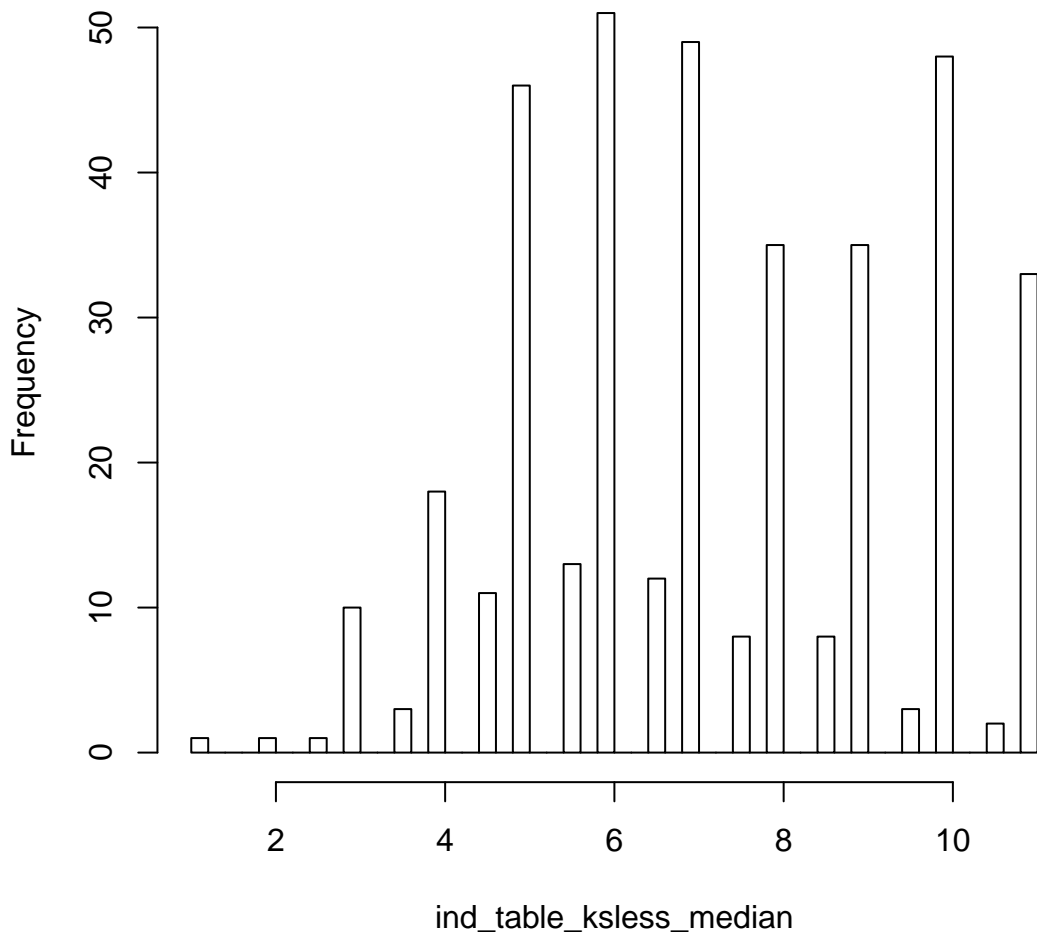
Histogram of ind_table_ksless_mean



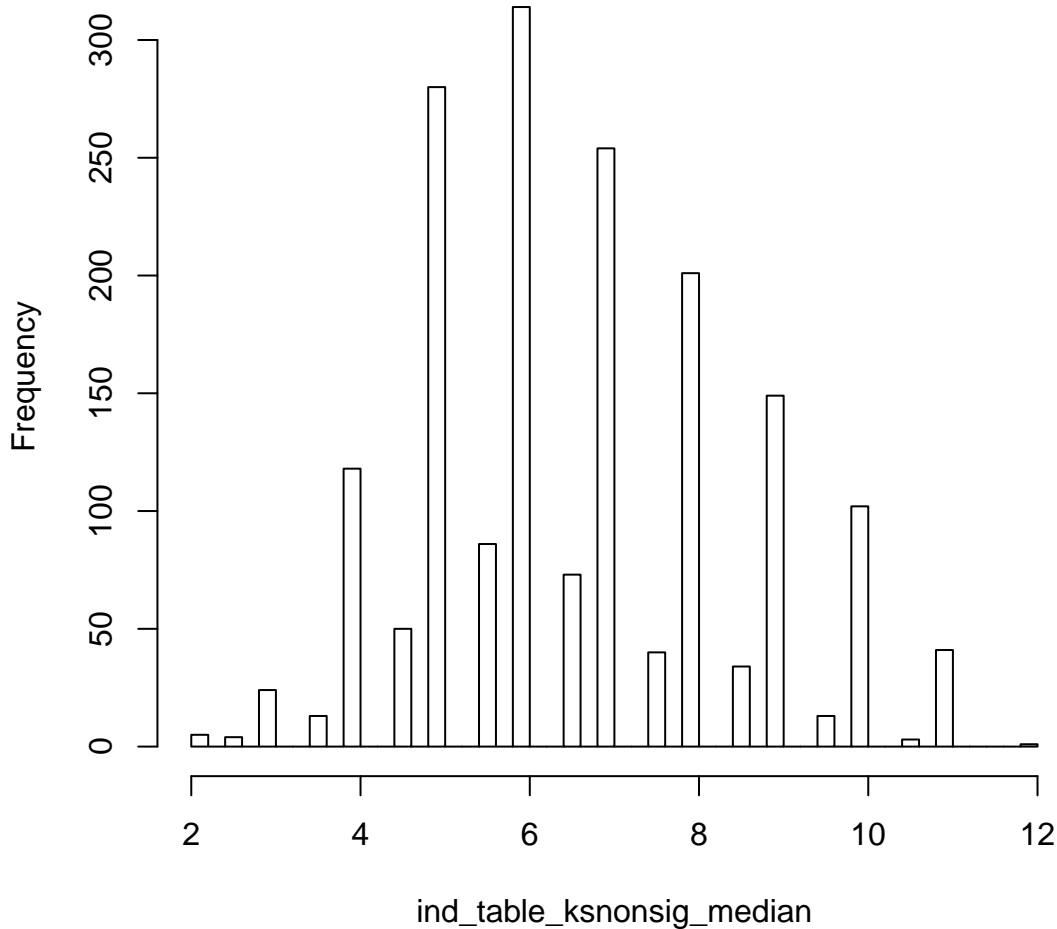
Histogram of ind_table_ksnonsig_mean



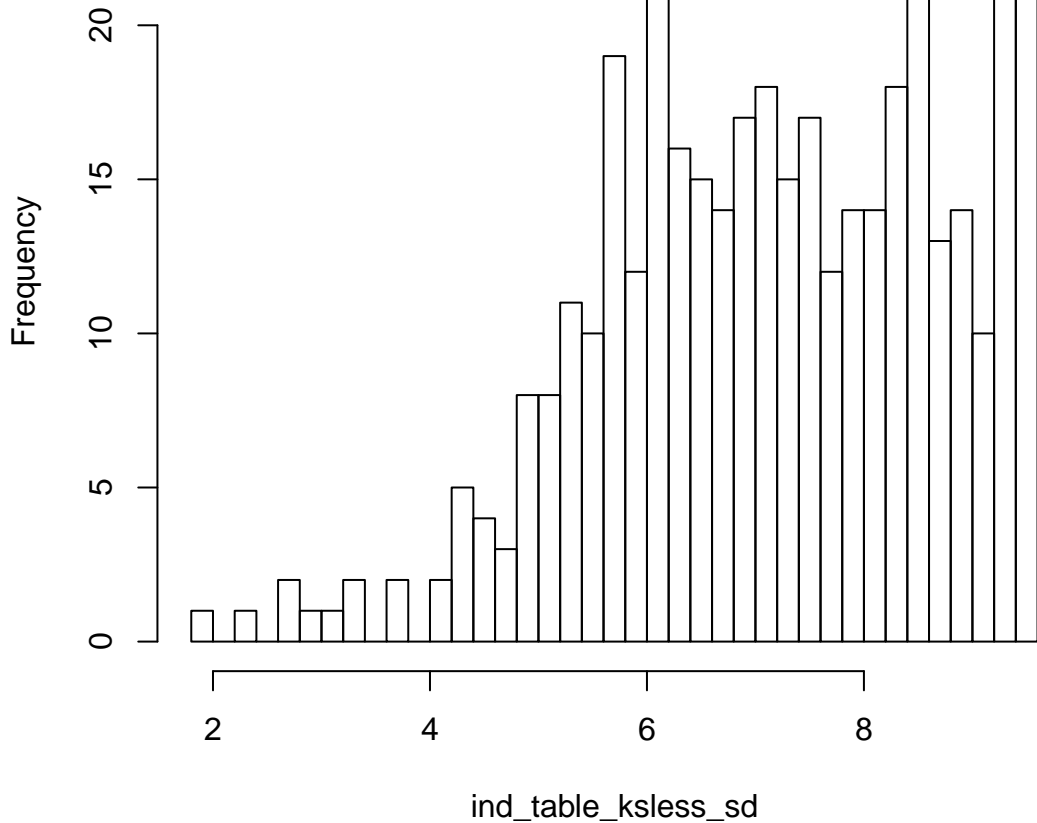
Histogram of ind_table_ksless_median



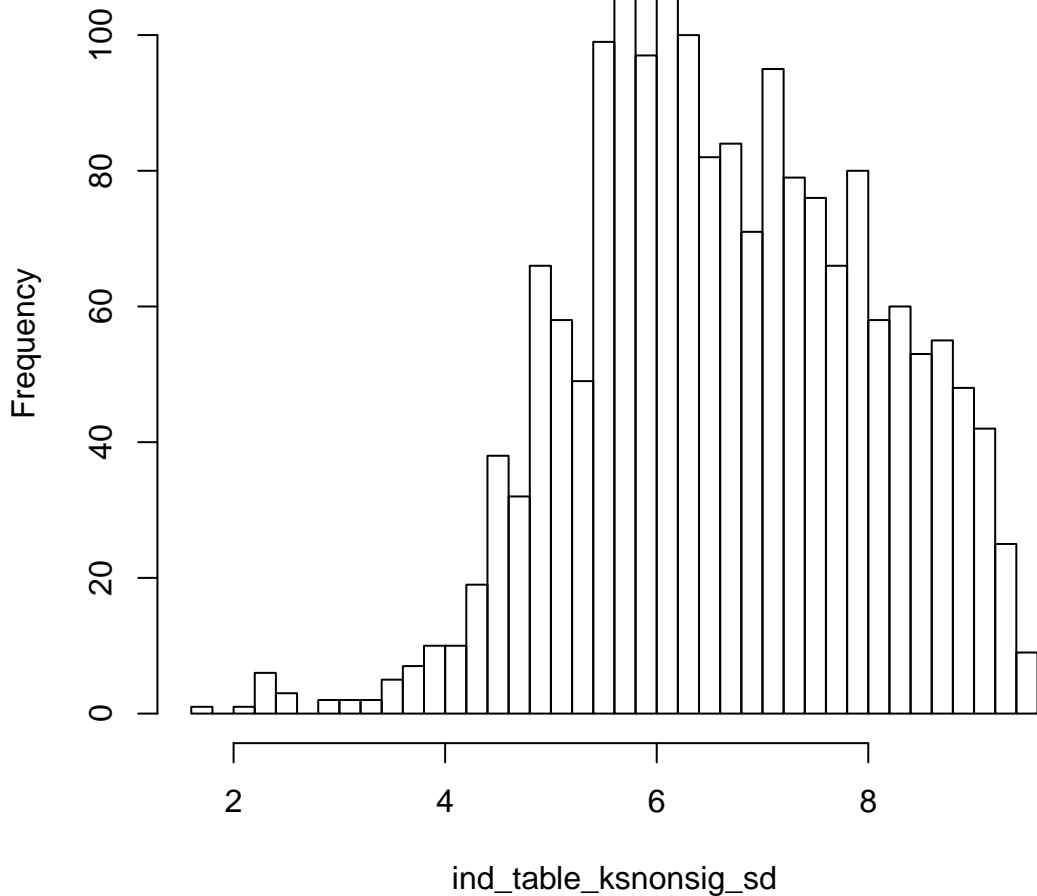
Histogram of ind_table_ksnonsig_median



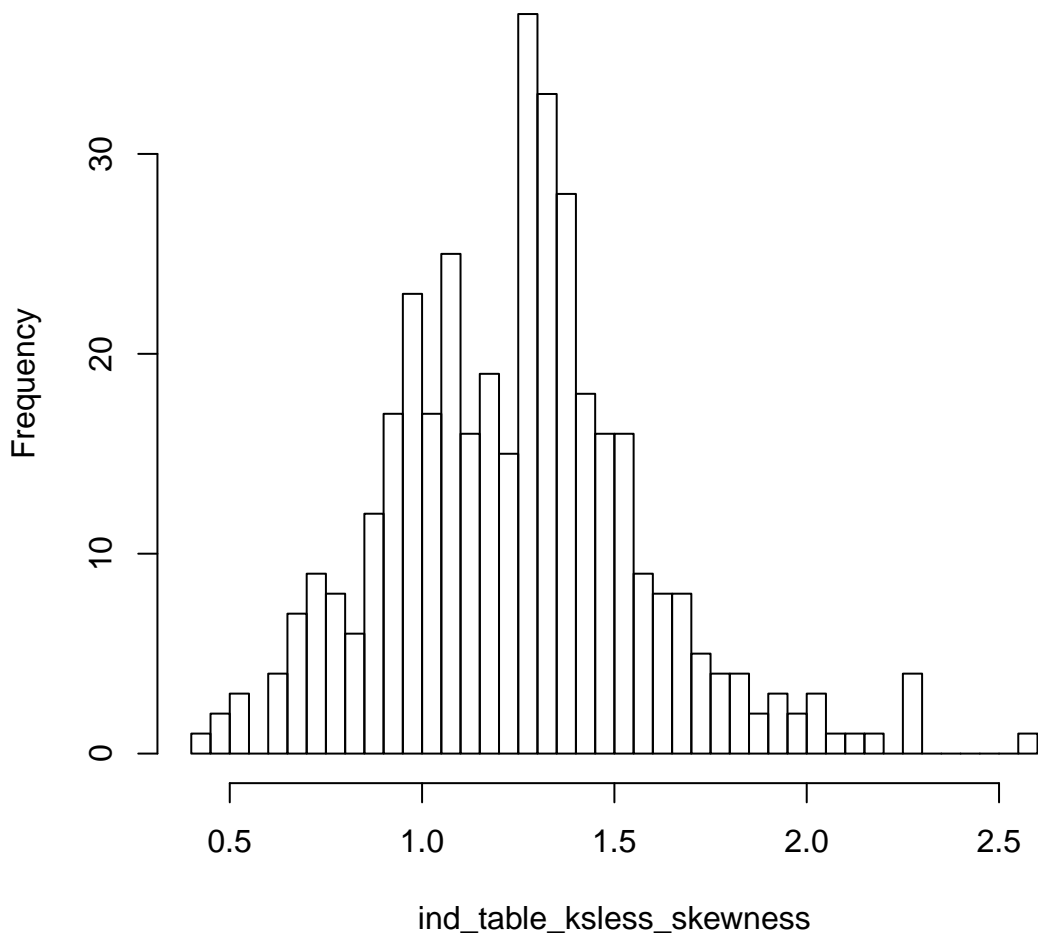
Histogram of ind_table_ksless_sd



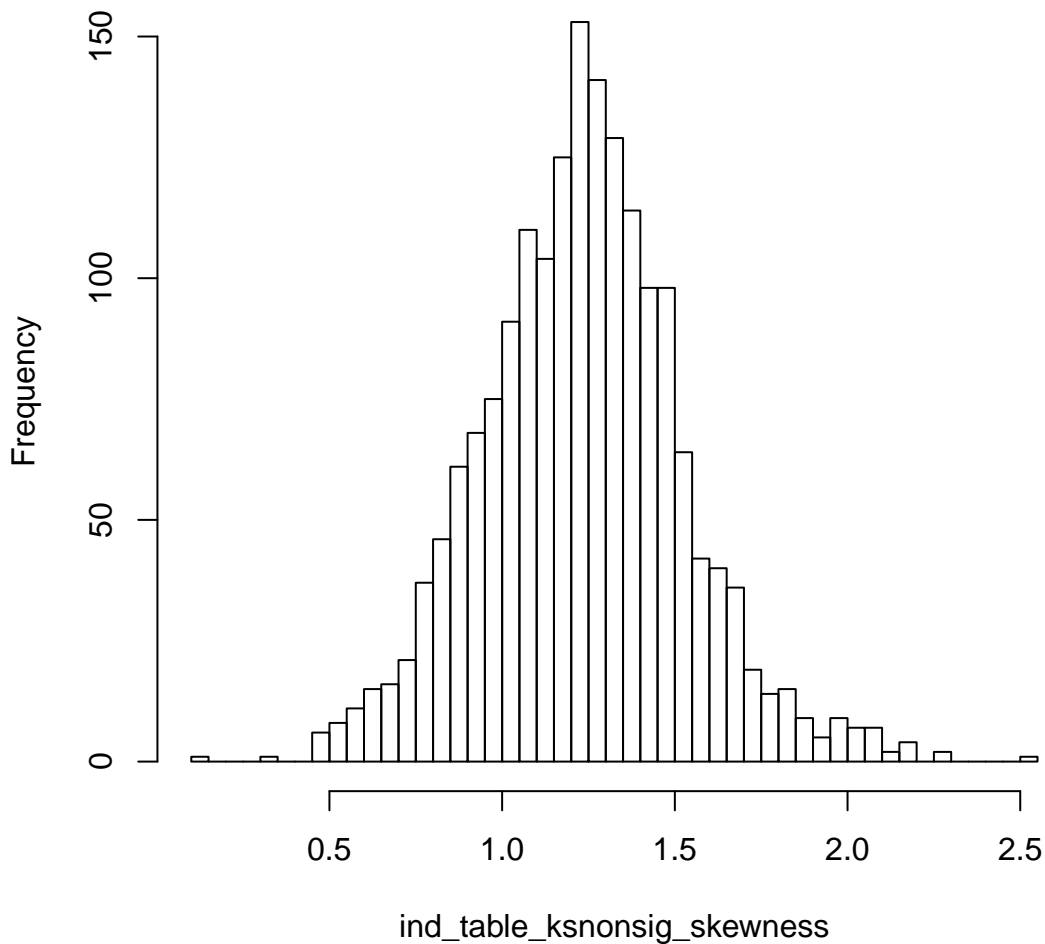
Histogram of ind_table_ksnonsig_sd



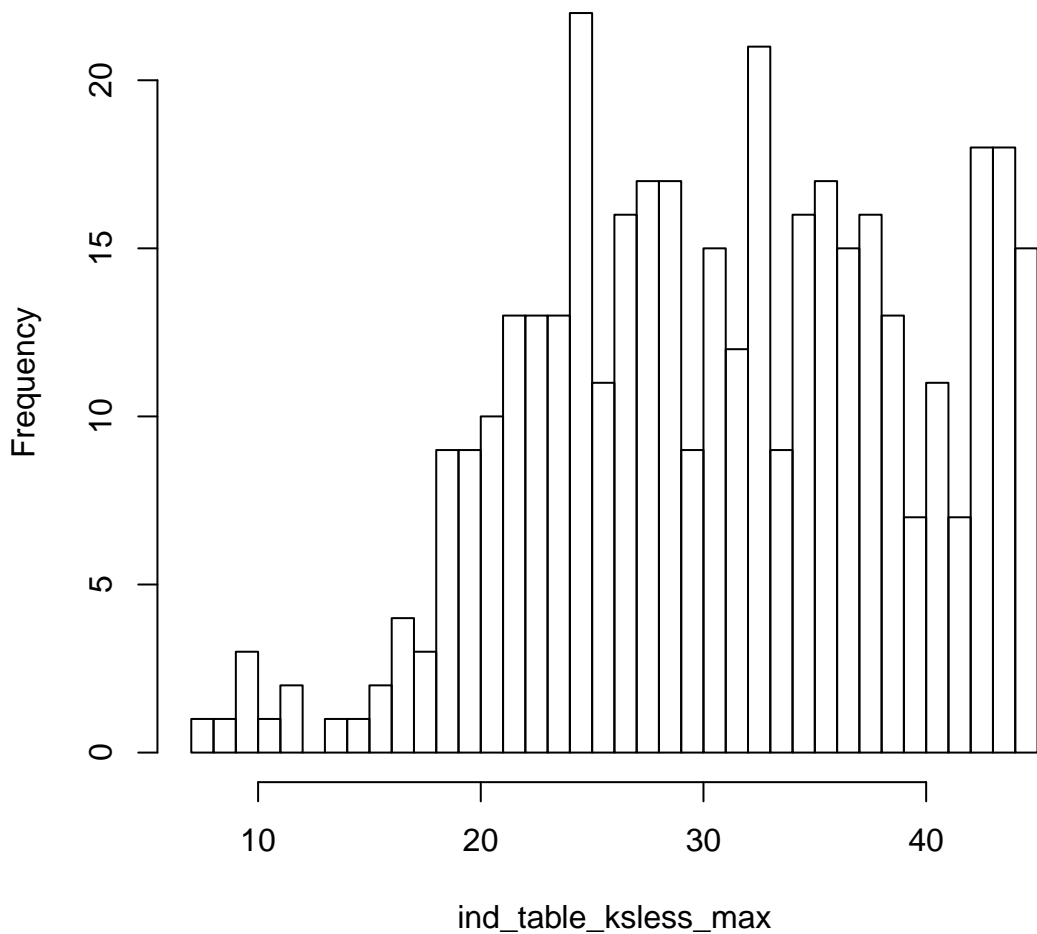
Histogram of ind_table_ksless_skewness



Histogram of ind_table_ksnonsig_skewness



Histogram of ind_table_ksless_max



Histogram of ind_table_ksnonsig_max

