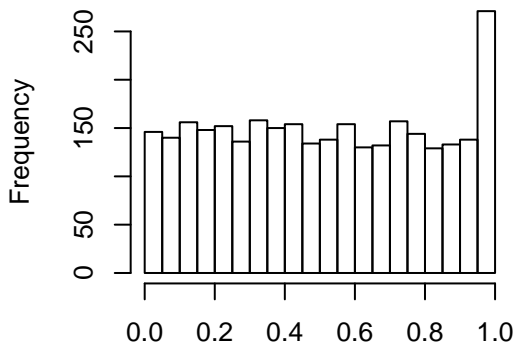
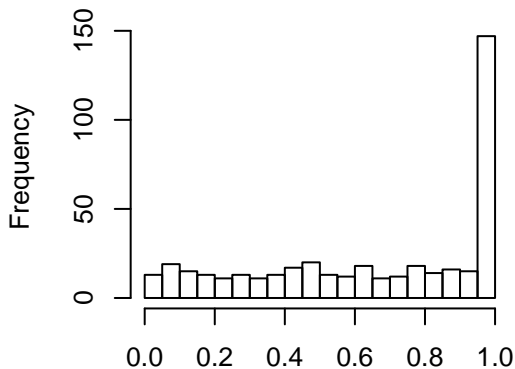


perm pvalues



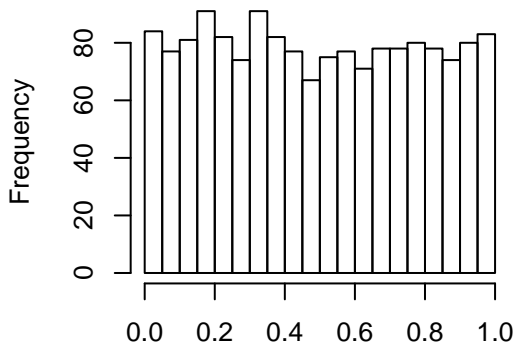
rawp
n=3000

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



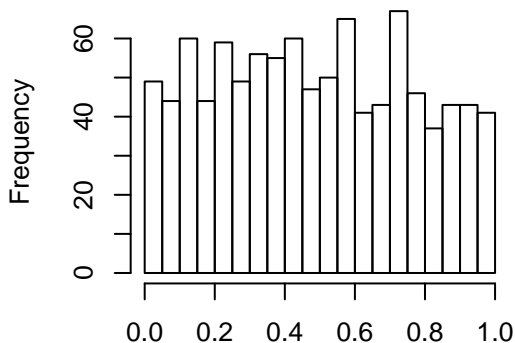
rawp[rawM_0zero_num < max(20, min(rawM_0zero_num, 100))]
n=421, ks_pval=0

perm pvalues,rawM_0zero_num >= 20-



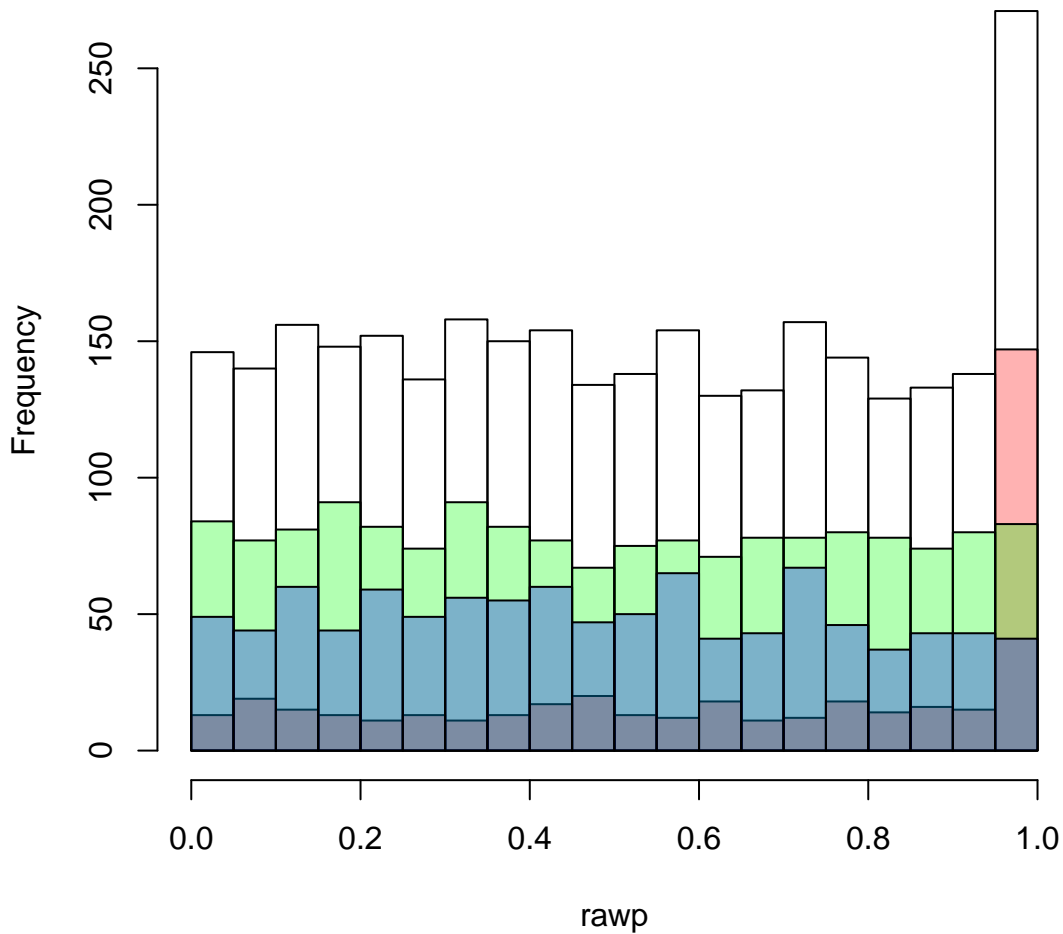
rawp[rawM_0zero_num >= 20 & rawM_0zero_num < 100]
n=1580, ks_pval=0.83298802175183

perm pvalues,rawM_0zero_num >= 100

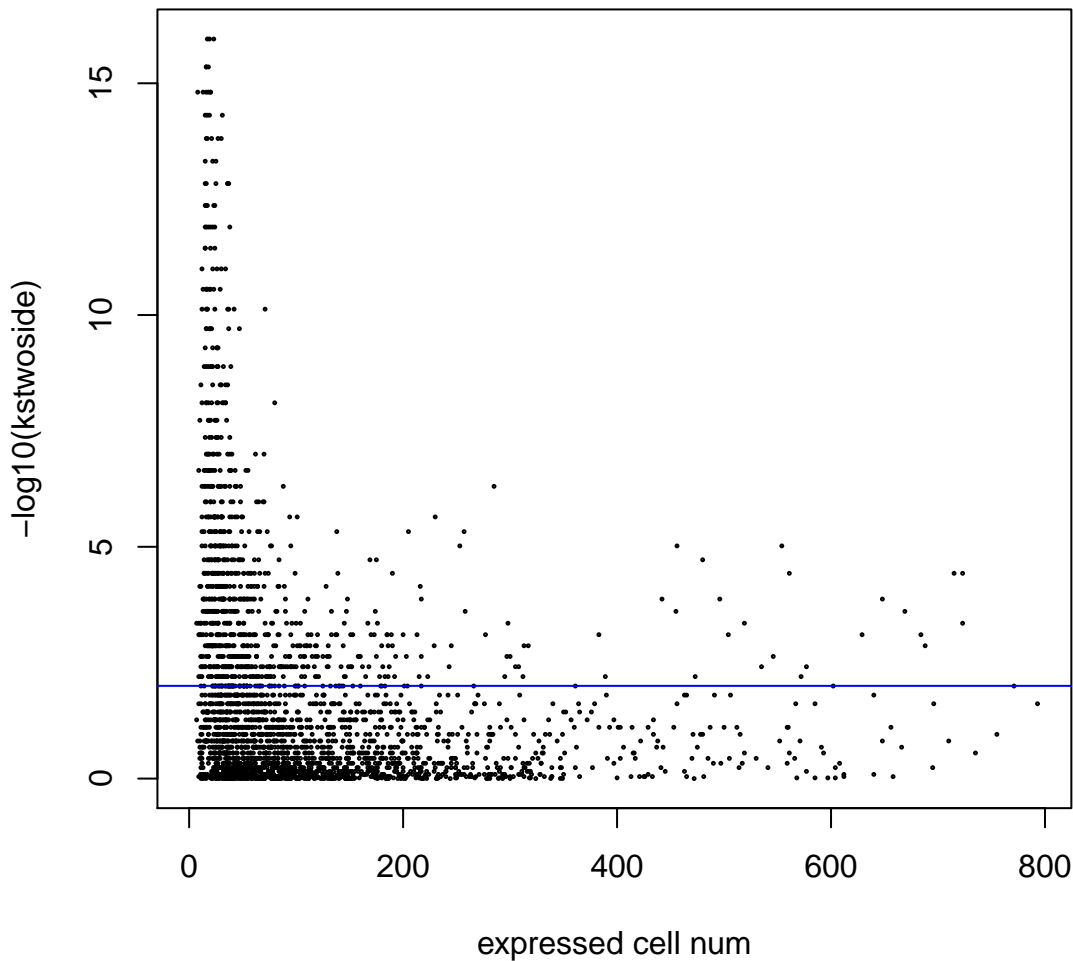


rawp[rawM_0zero_num >= 100]
n=999, ks_pval=0.340408655164167

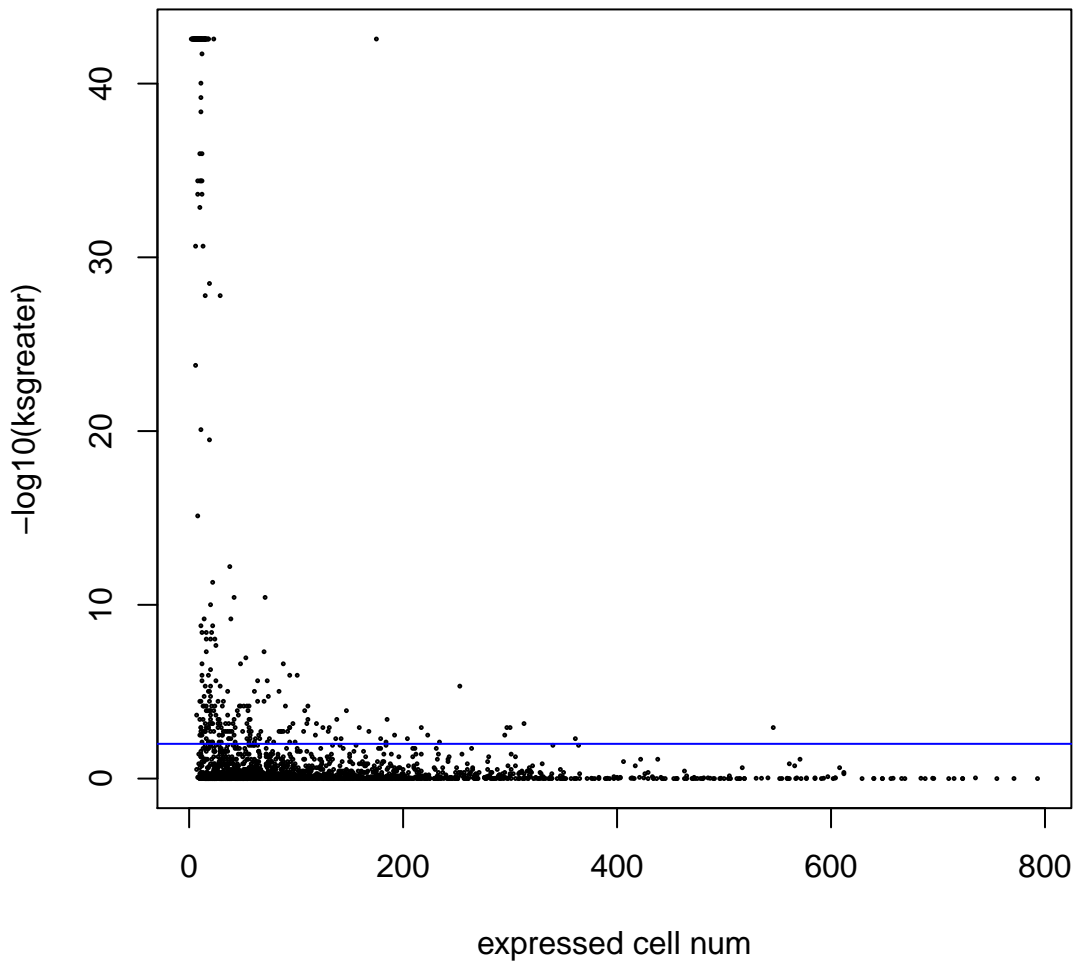
perm pvalues



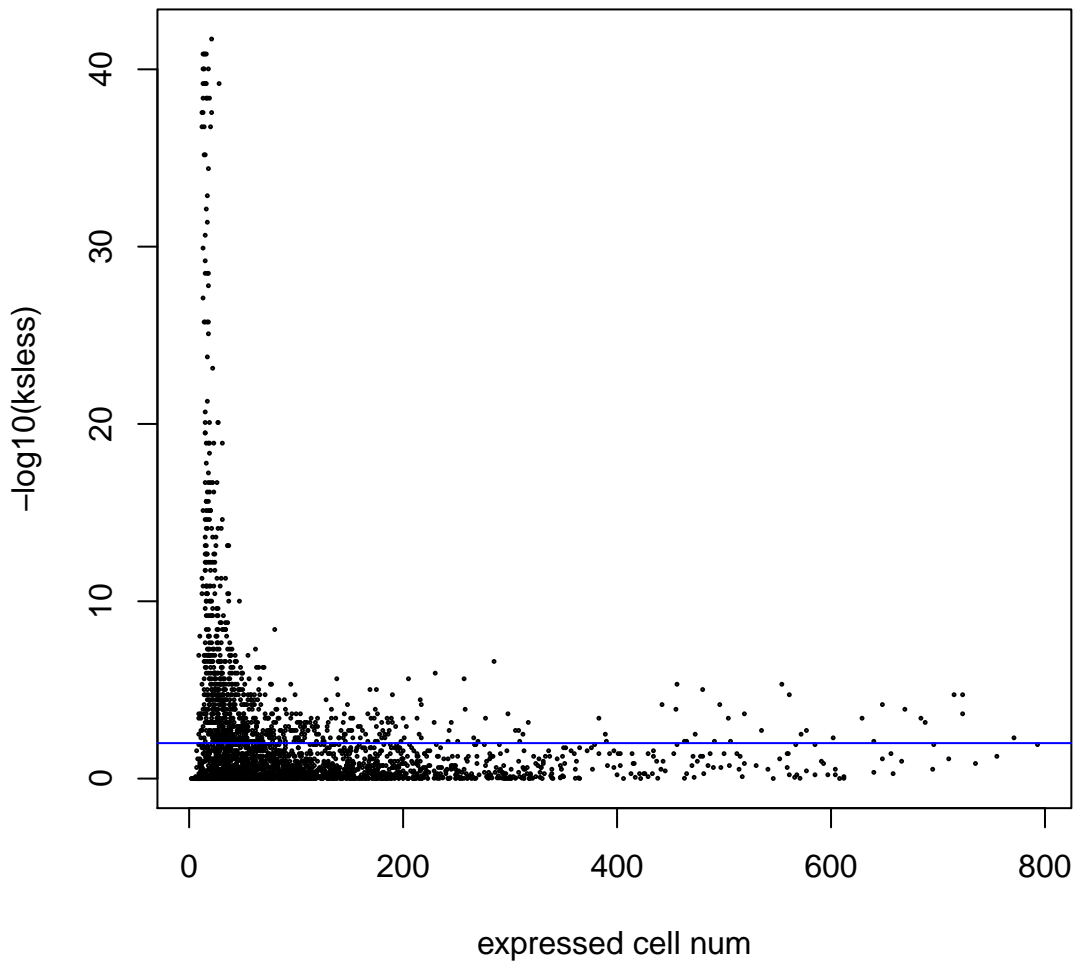
sig_KStwoside: 34.6%



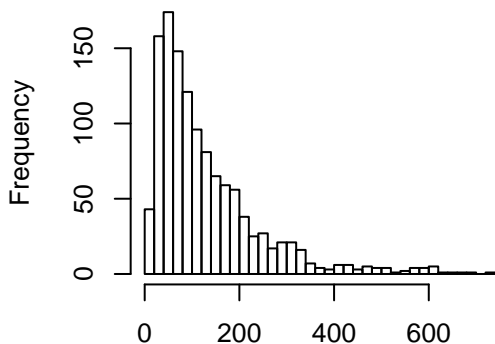
sig_KSgreater: 10.767%



sig_KSless: 29.4%

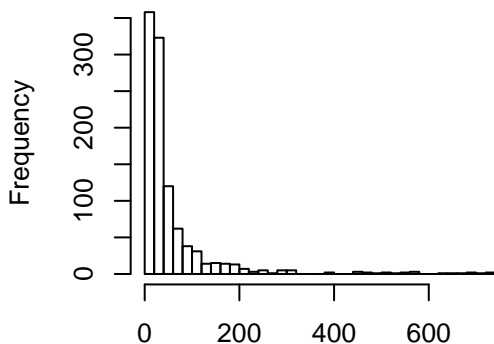


expression cell num,kstwoside>0.2



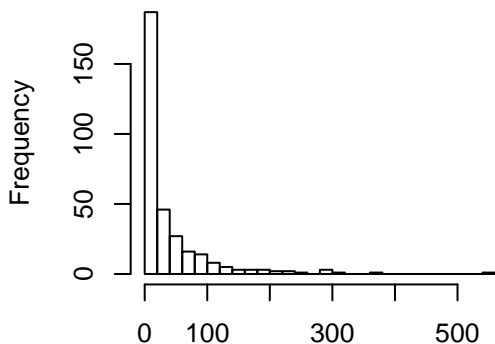
rawM_0zero_num[kstwoside > 0.2]

expression cell num,kstwoside<0.01



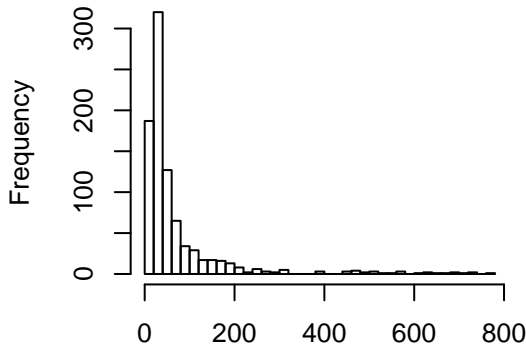
rawM_0zero_num[kstwoside < 0.01]

expression cell num,ksgreater<0.01



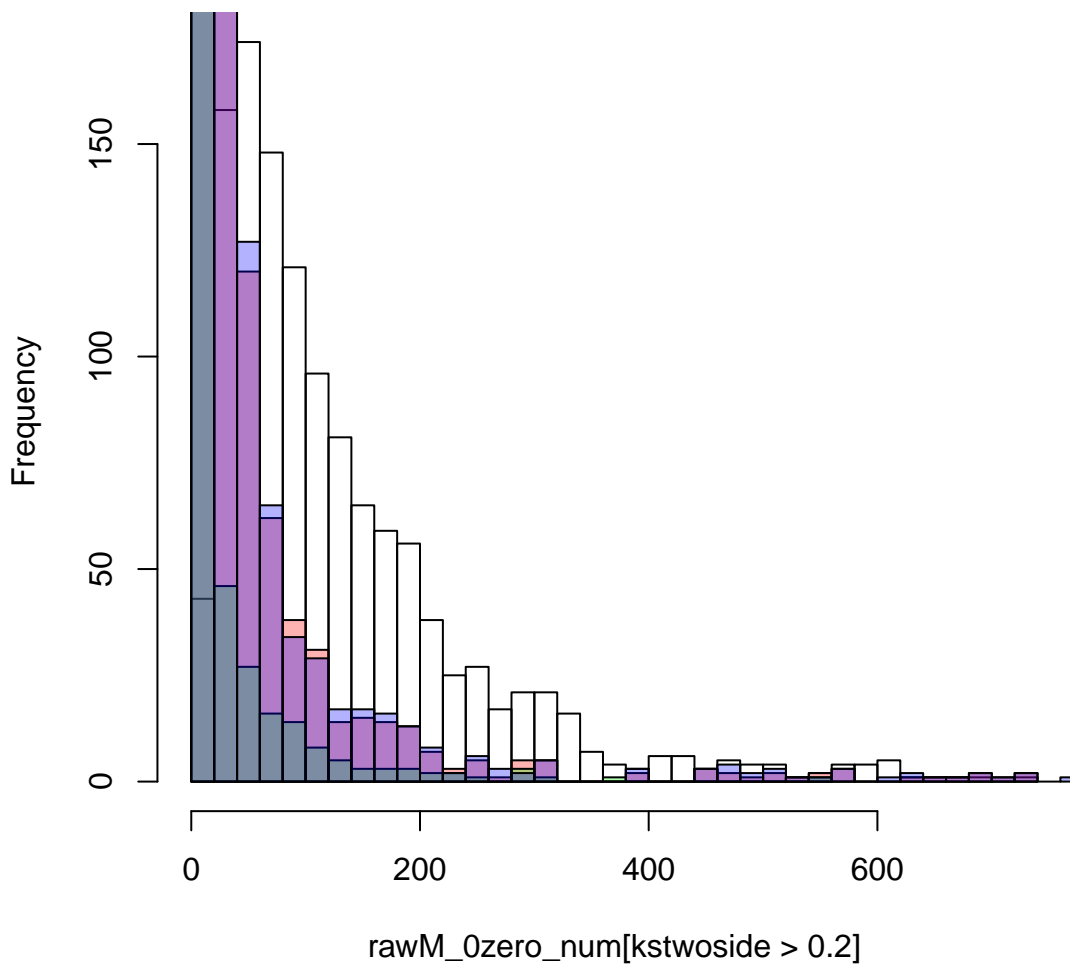
rawM_0zero_num[ksgreater < 0.01]

expression cell num,ksless<0.01

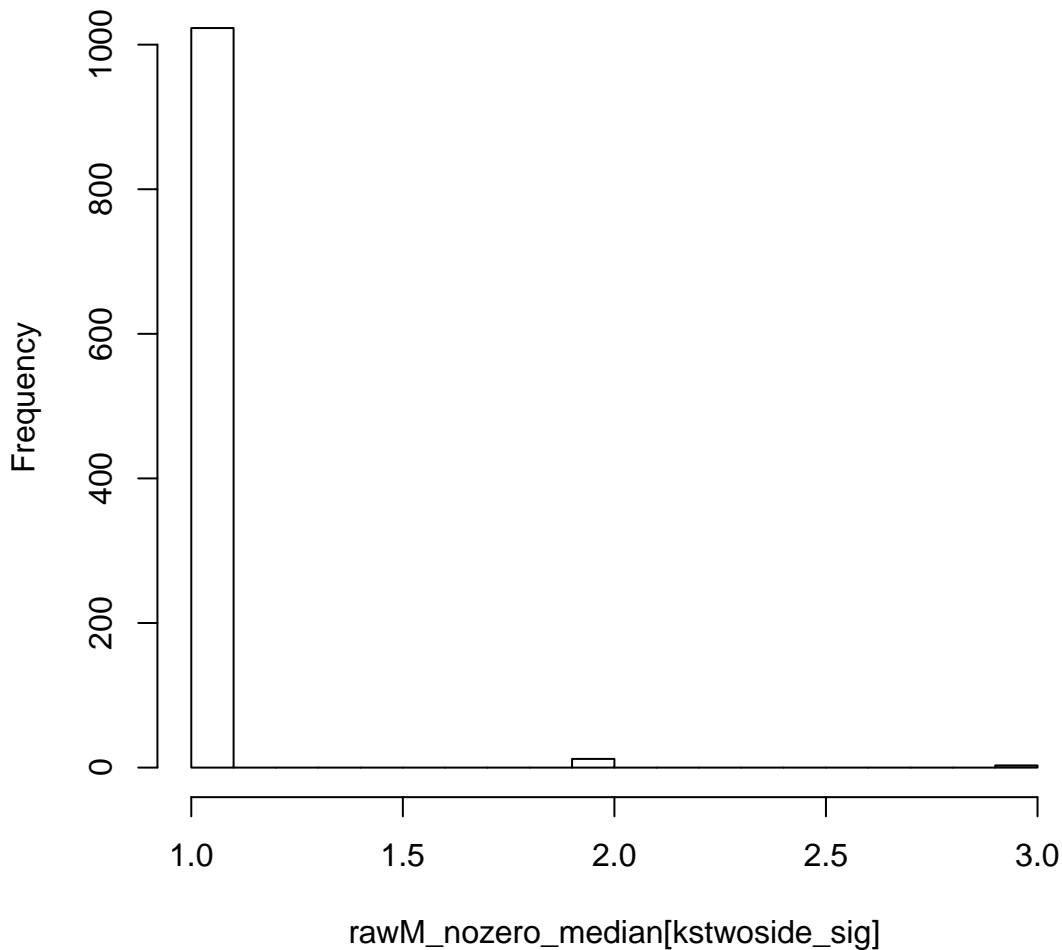


rawM_0zero_num[ksless < 0.01]

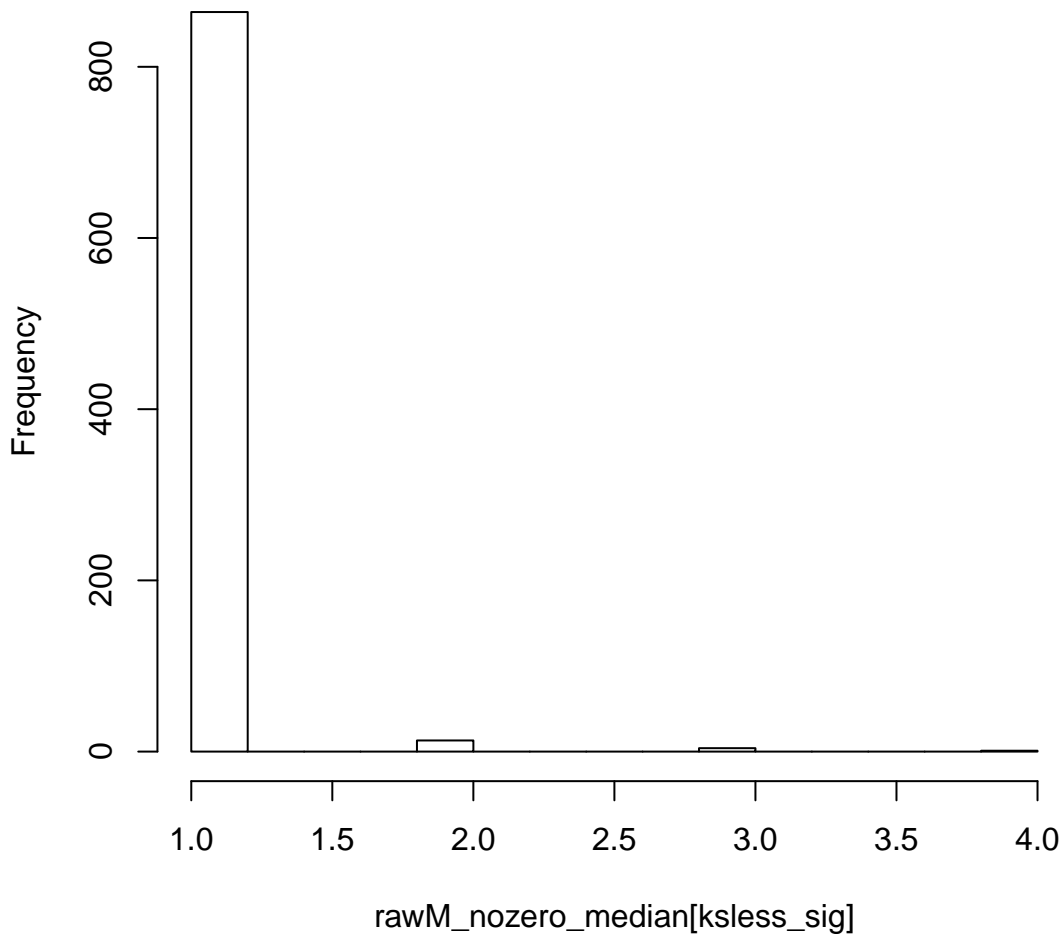
expression cell num



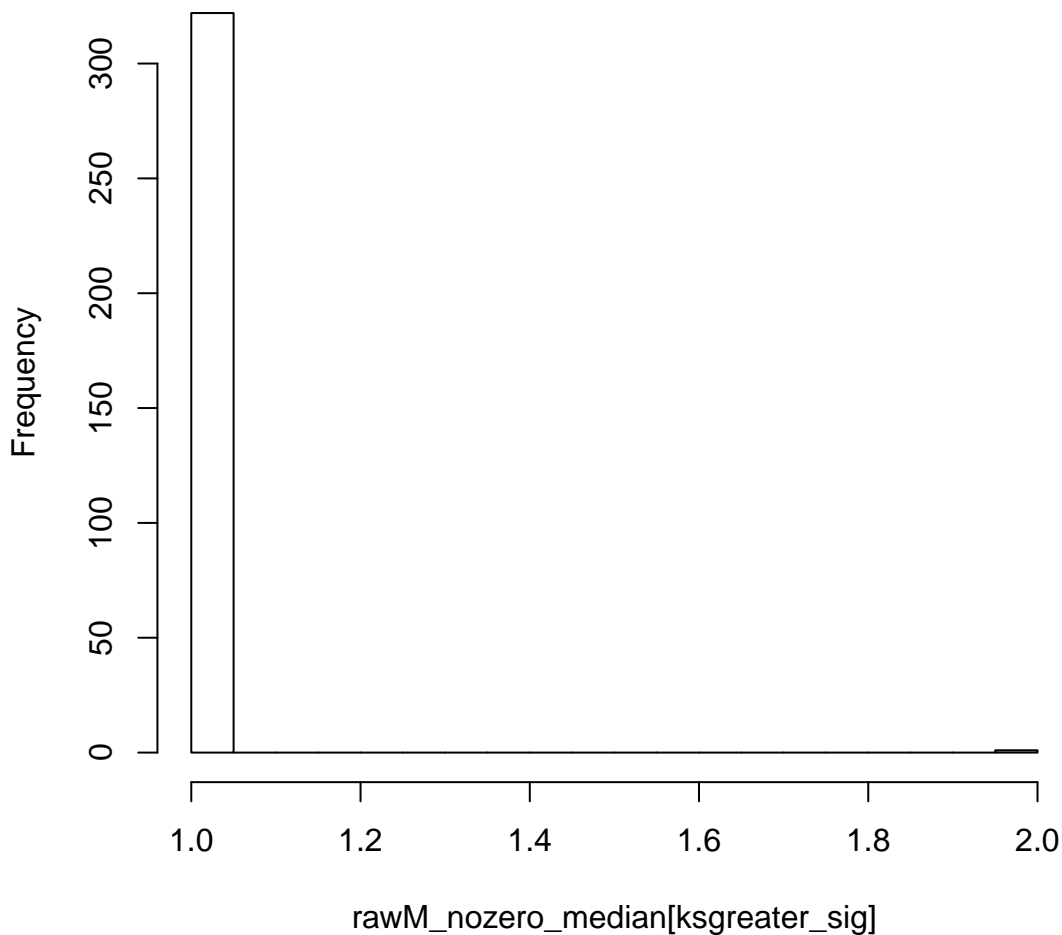
median of nozero log-express of genes, kstwoside sig



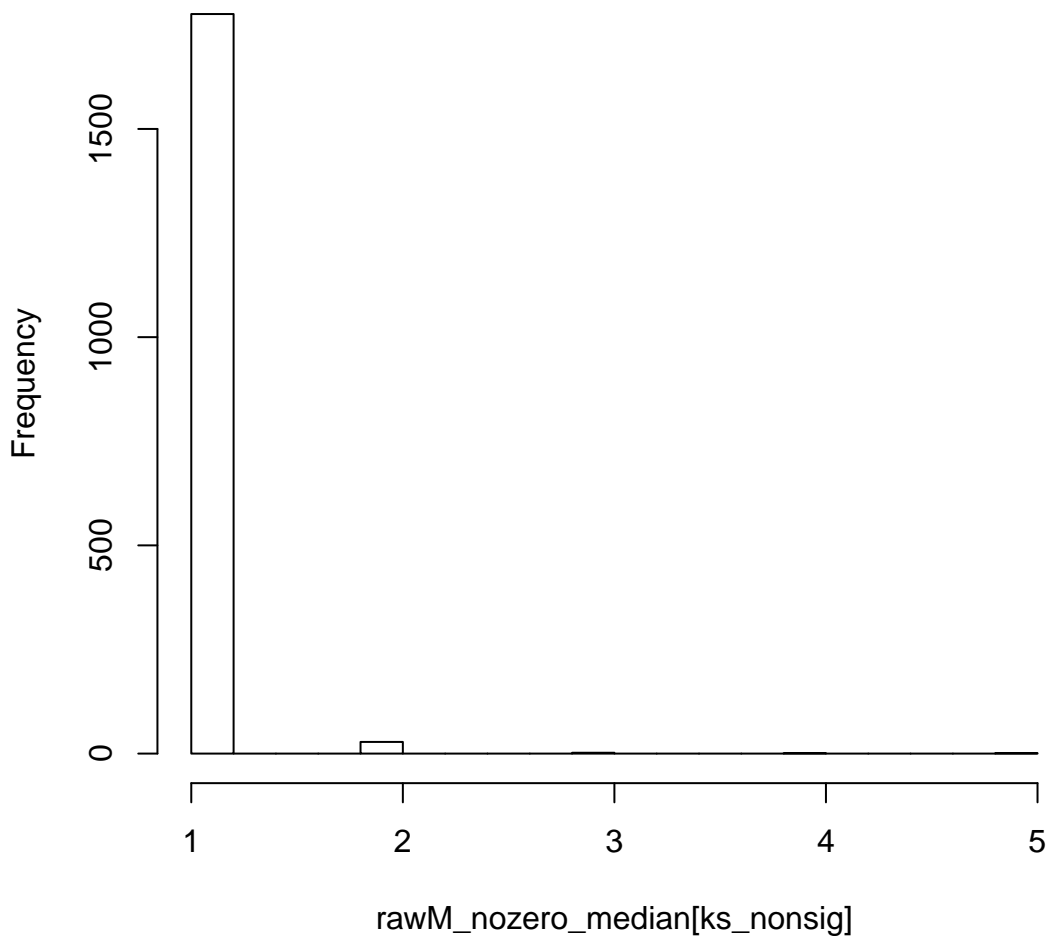
median of nozero log-express of genes, ksless sig



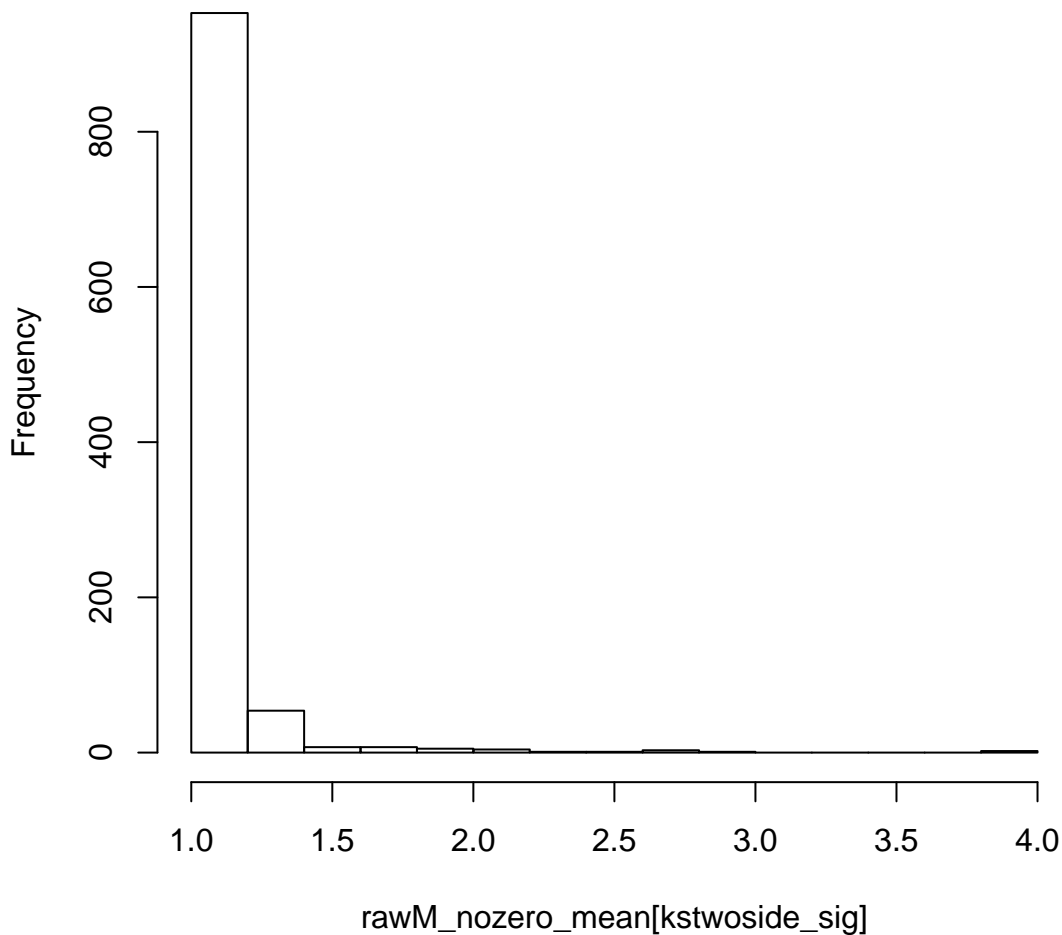
median of nozero log-express of genes,ksgreater sig



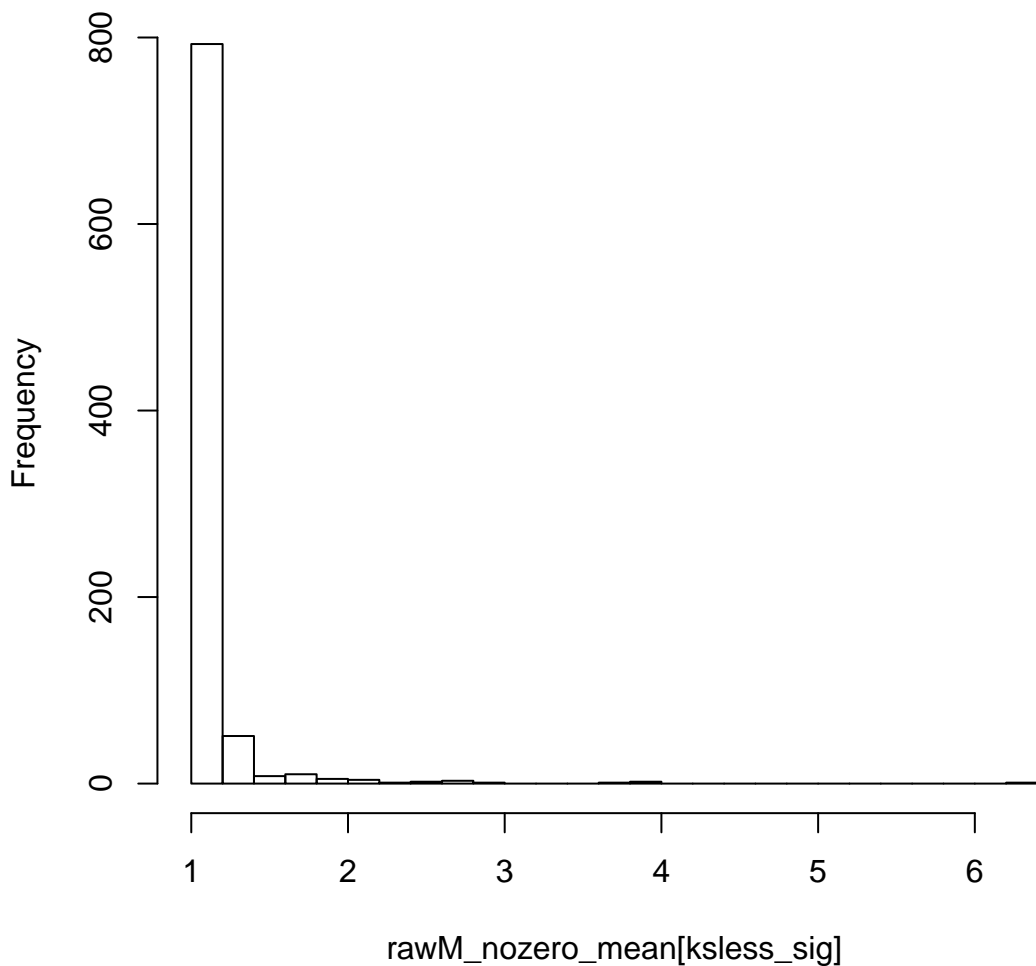
median of nozero log-express of genes,ks no sig



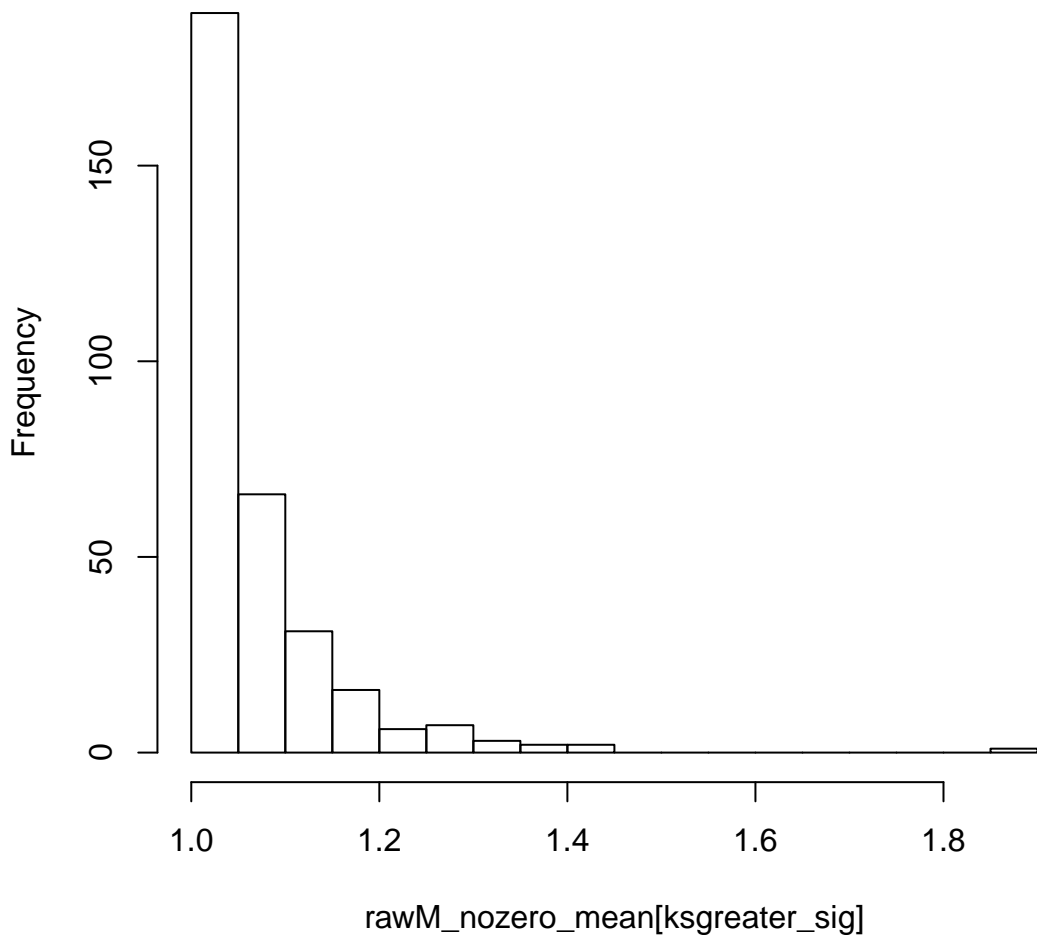
mean of nozero log-express of genes, kstwo side sig



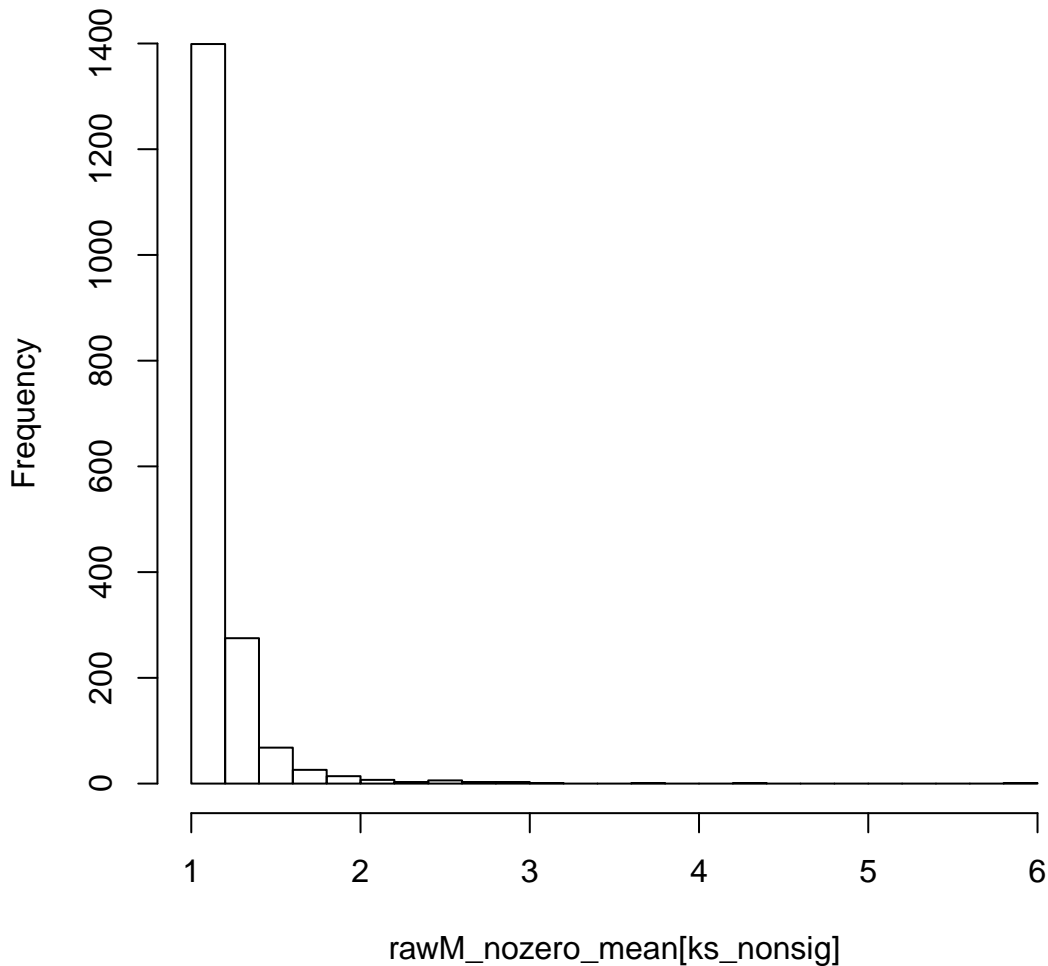
mean of nozero log-express of genes, ksless sig



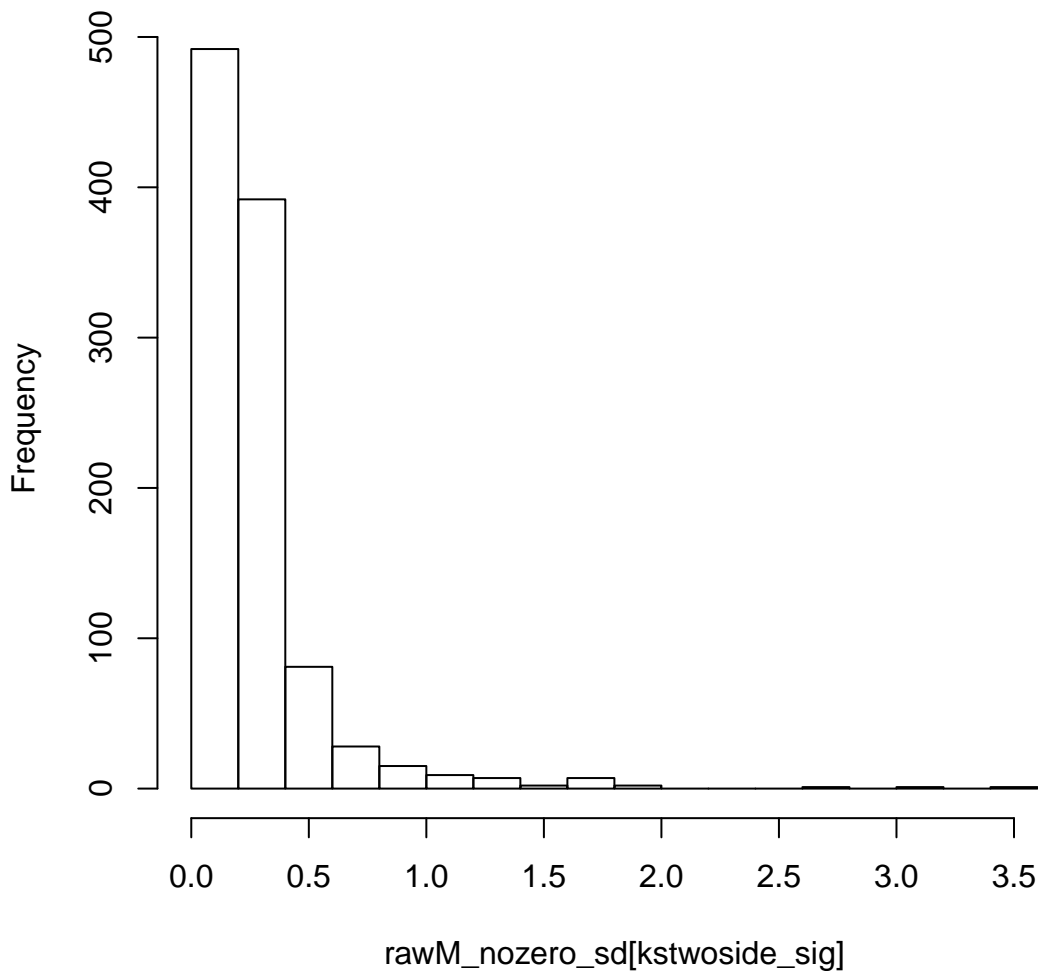
mean of nozero log-express of genes,ksgreater sig



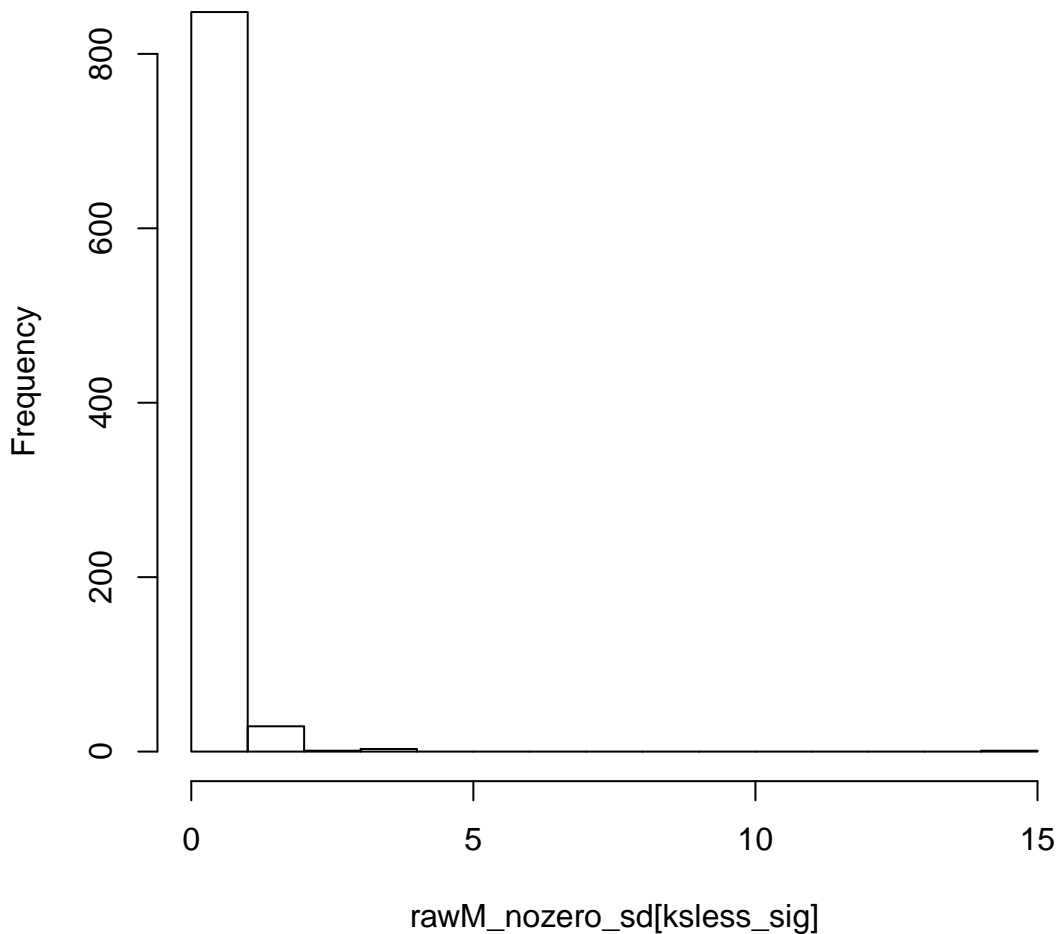
mean of nozero log-expres of genes,ks no sig



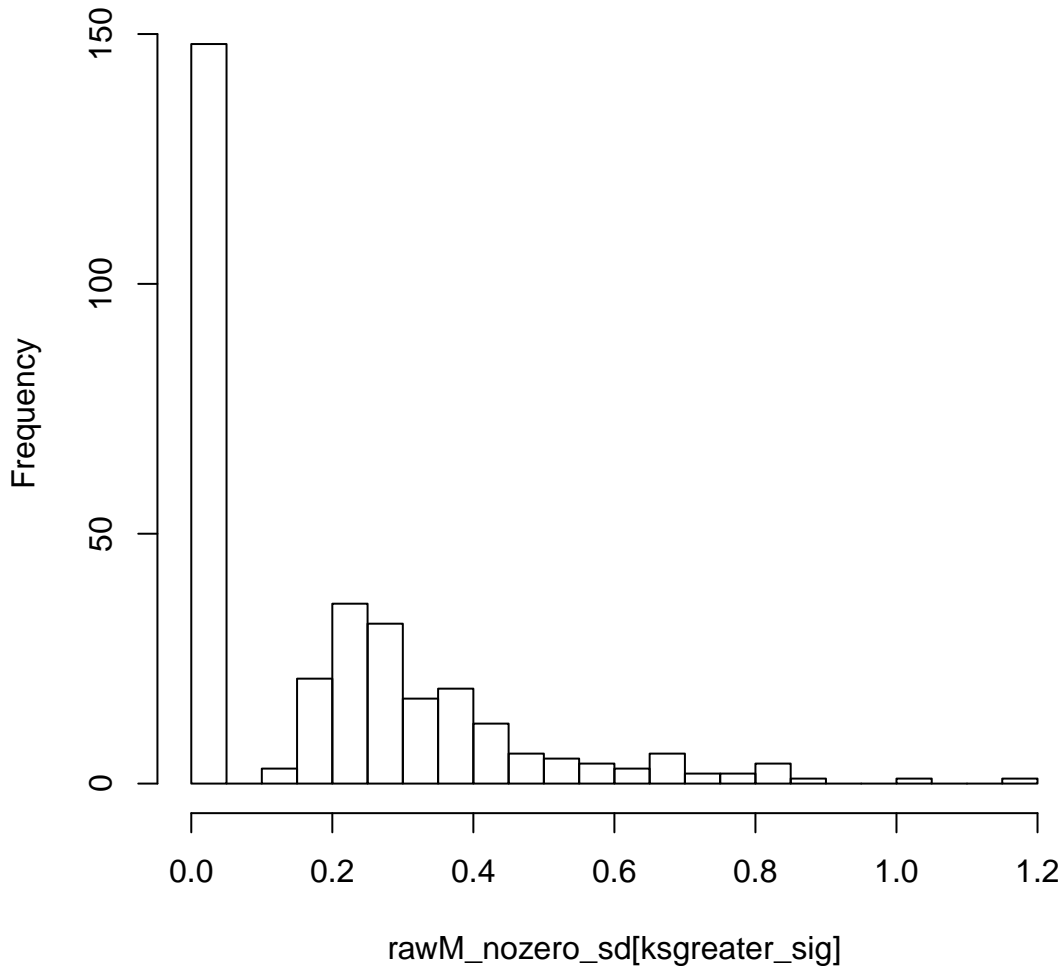
sd of nozero log-express of genes, kstwoside sig



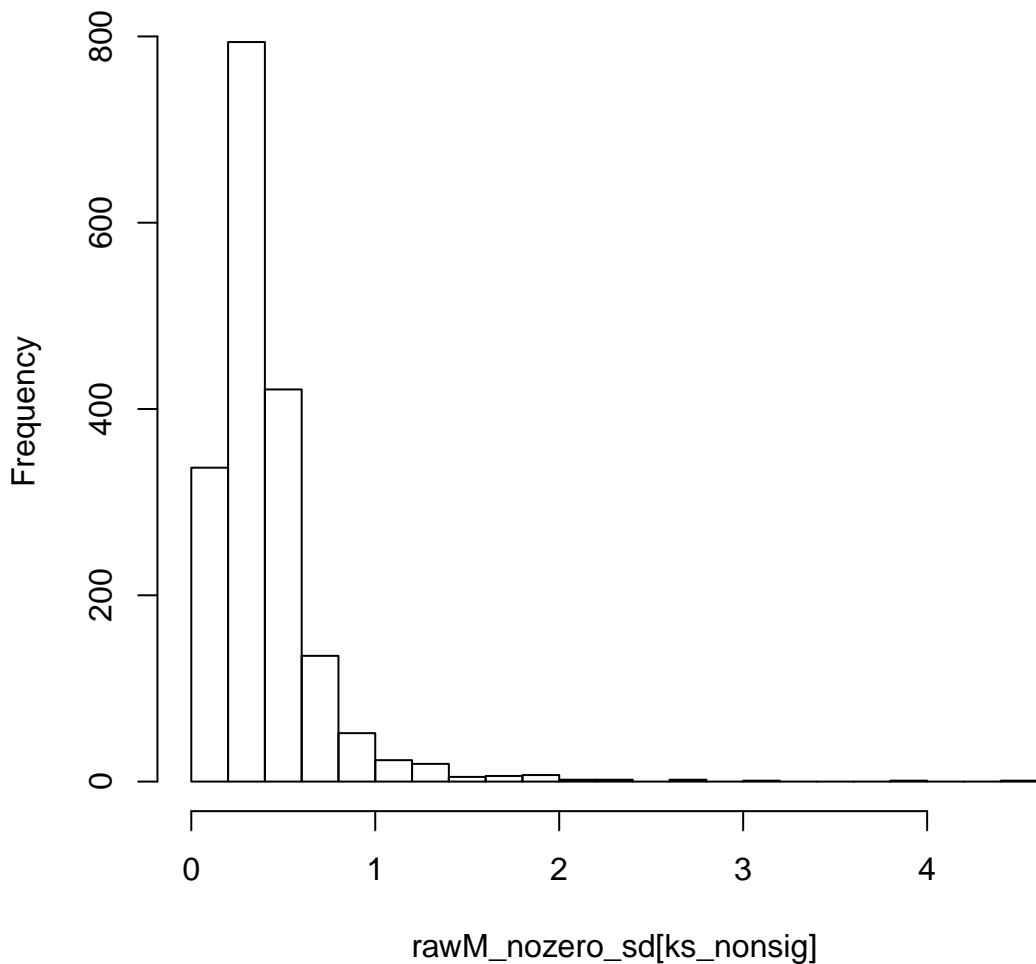
sd of nozero log-express of genes, ksless sig



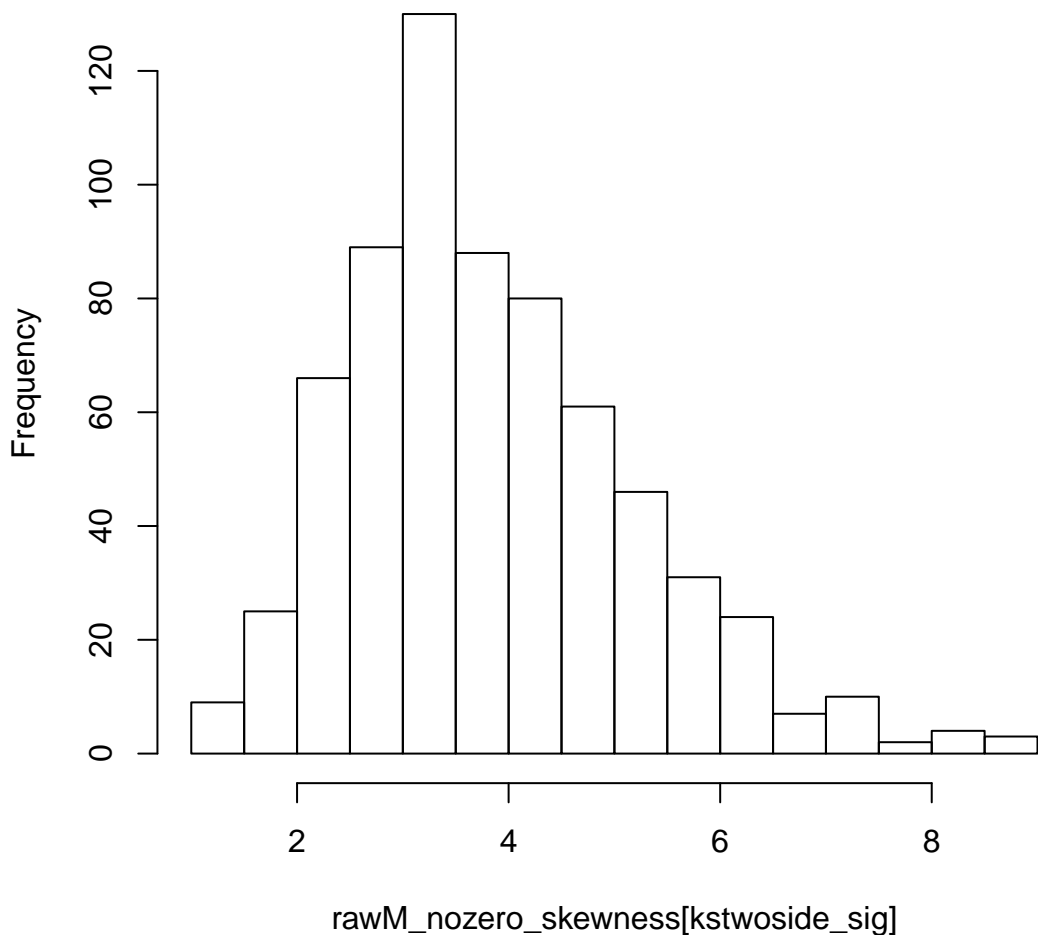
sd of nozero log-express of genes,ksgreater sig



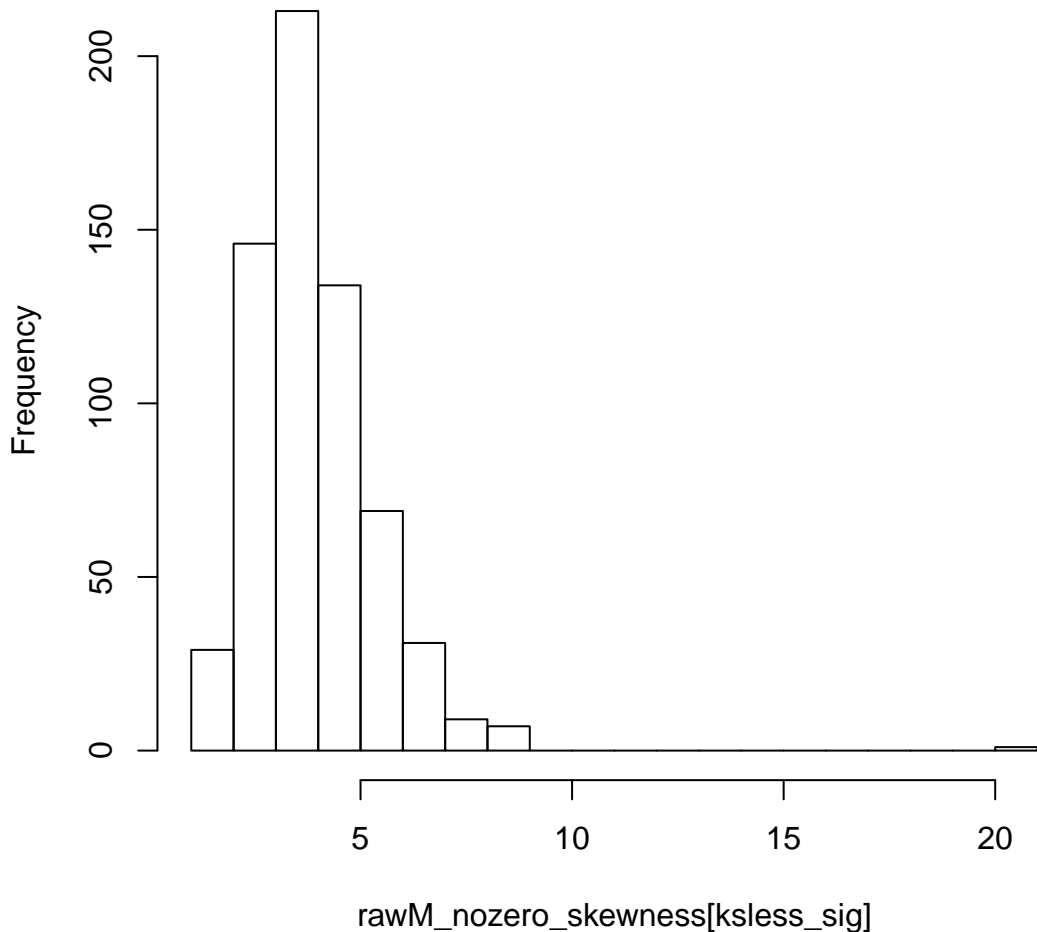
sd of nozero log-express of genes,ks no sig



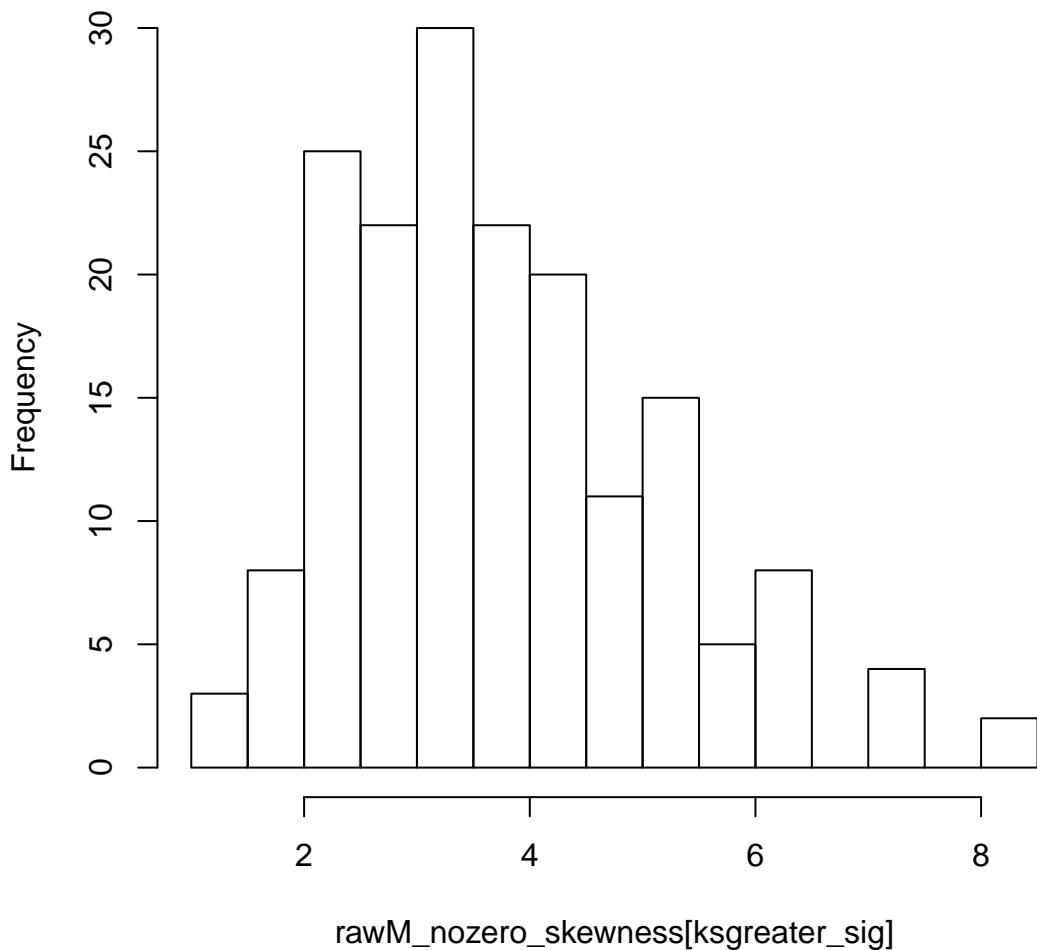
skewness of nozero log-express of genes, kstwo side sig



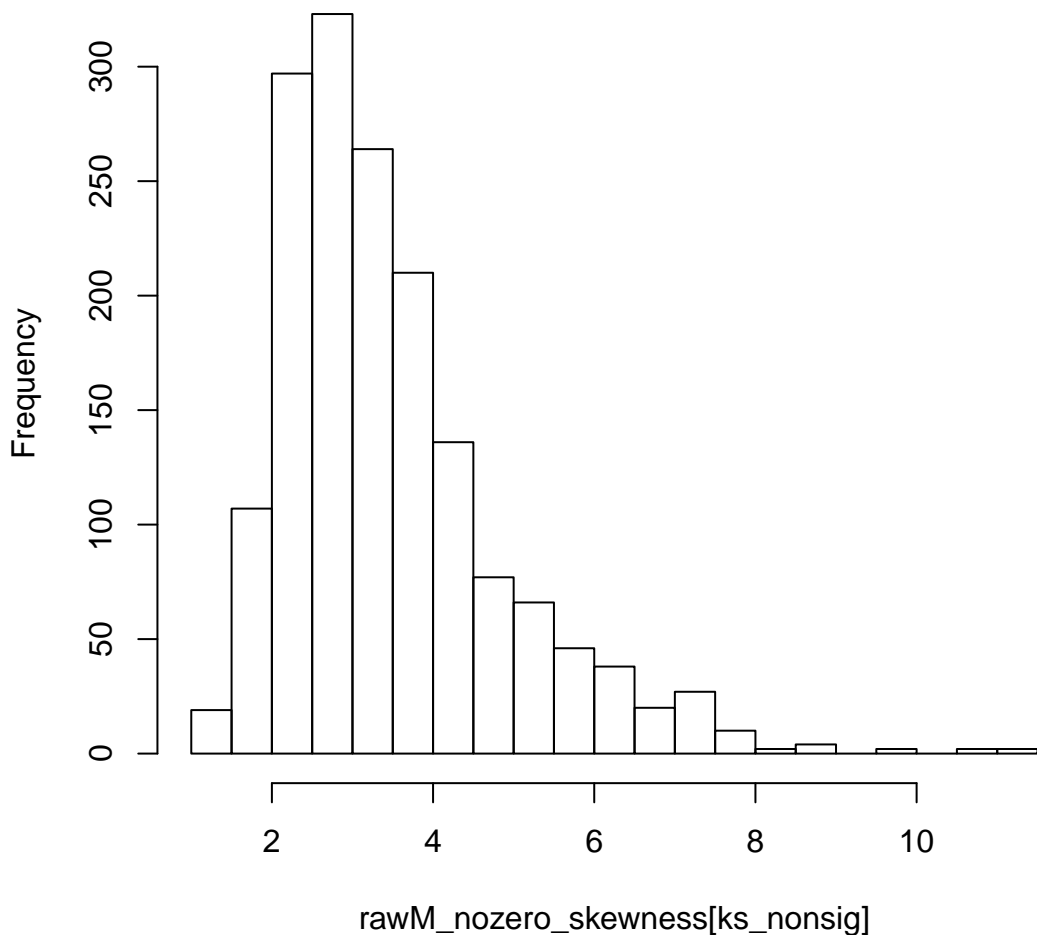
skewness of nozero log-express of genes, ksless sig



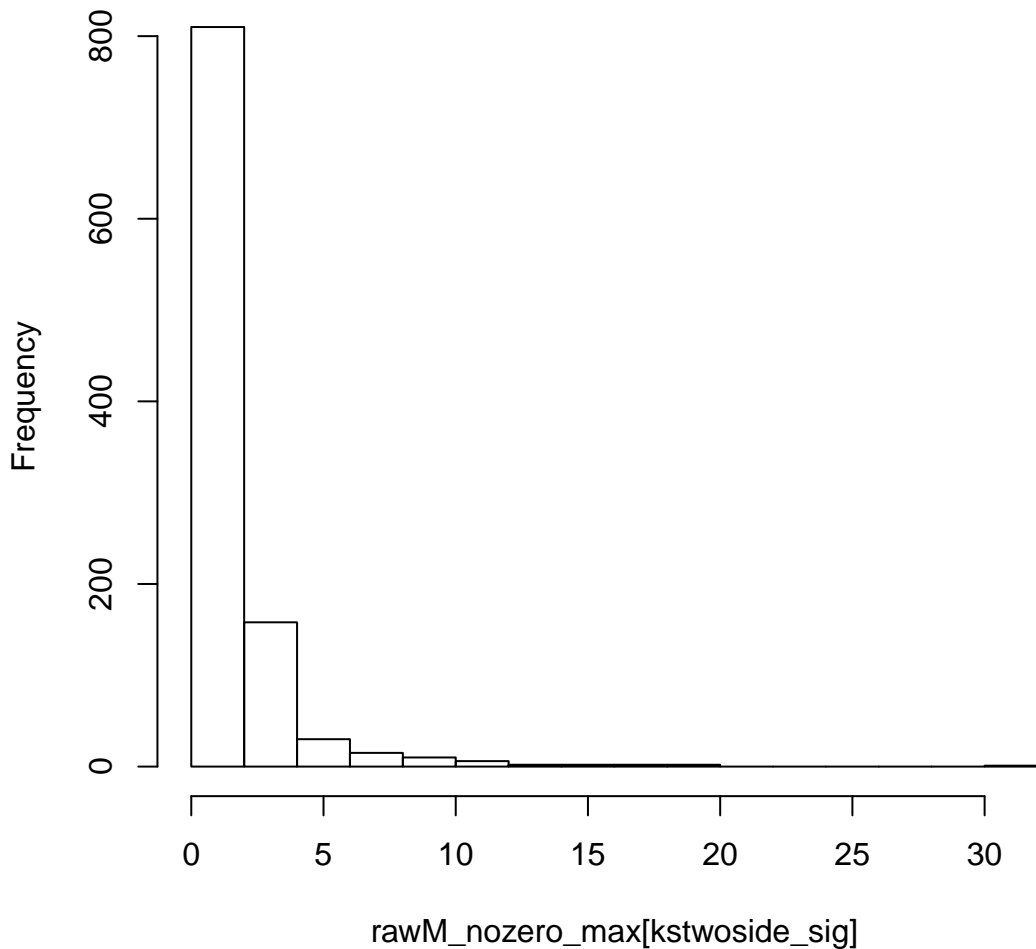
skewness of nozero log-express of genes,ksgreater sig



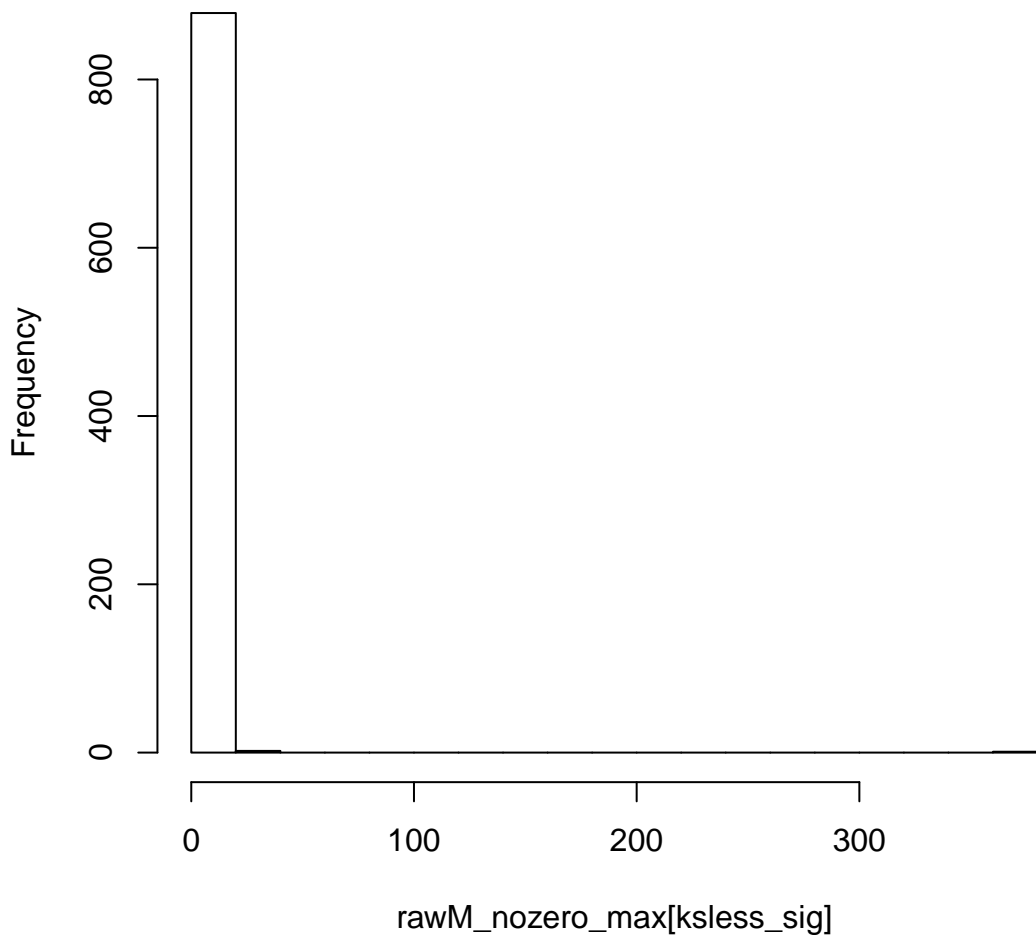
skewness of nozero log-express of genes,ks no sig



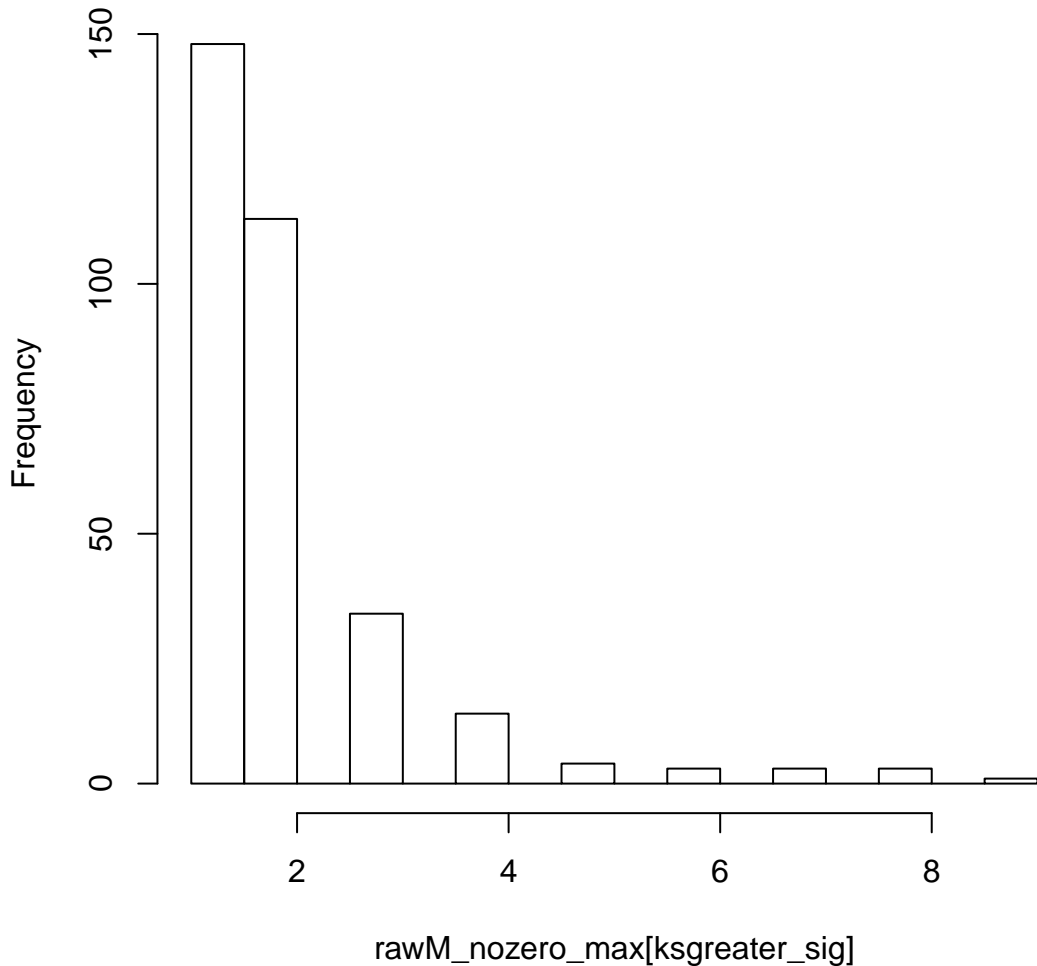
max of nozero log-express of genes, kstwoside sig



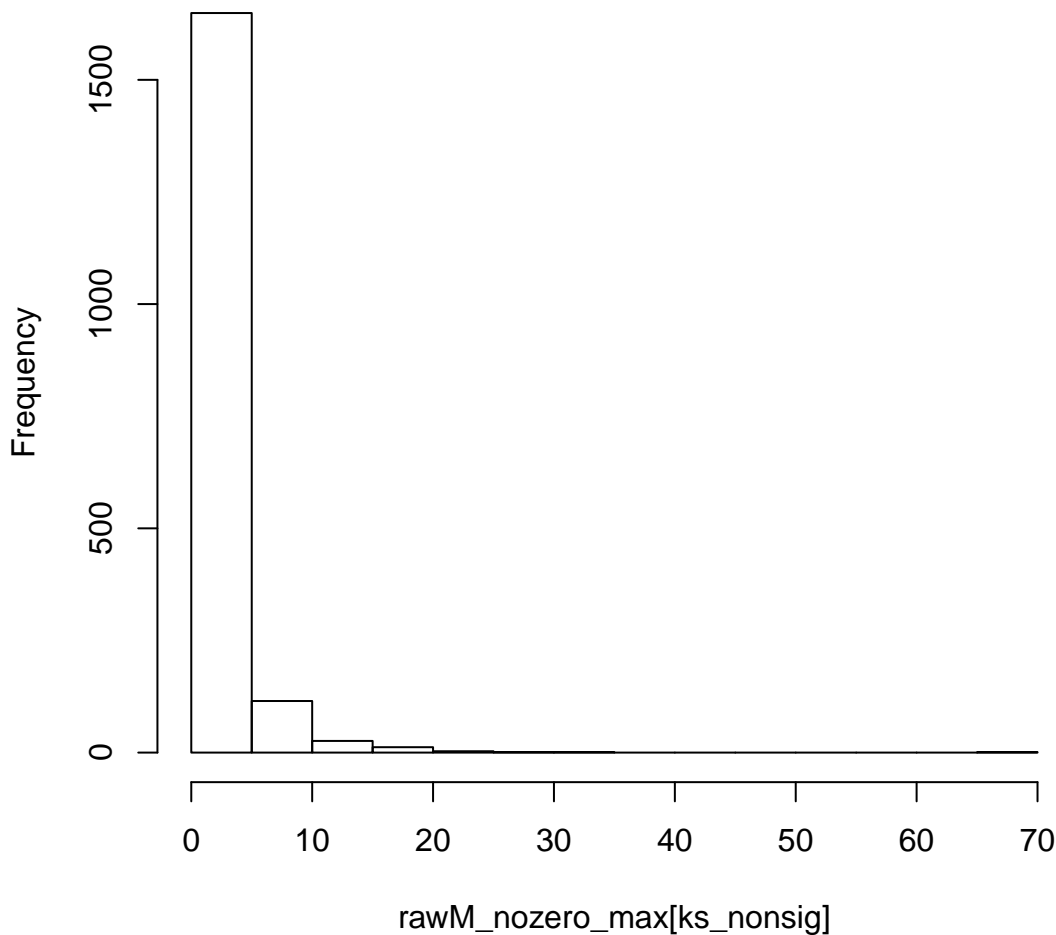
max of nozero log-express of genes, ksless sig



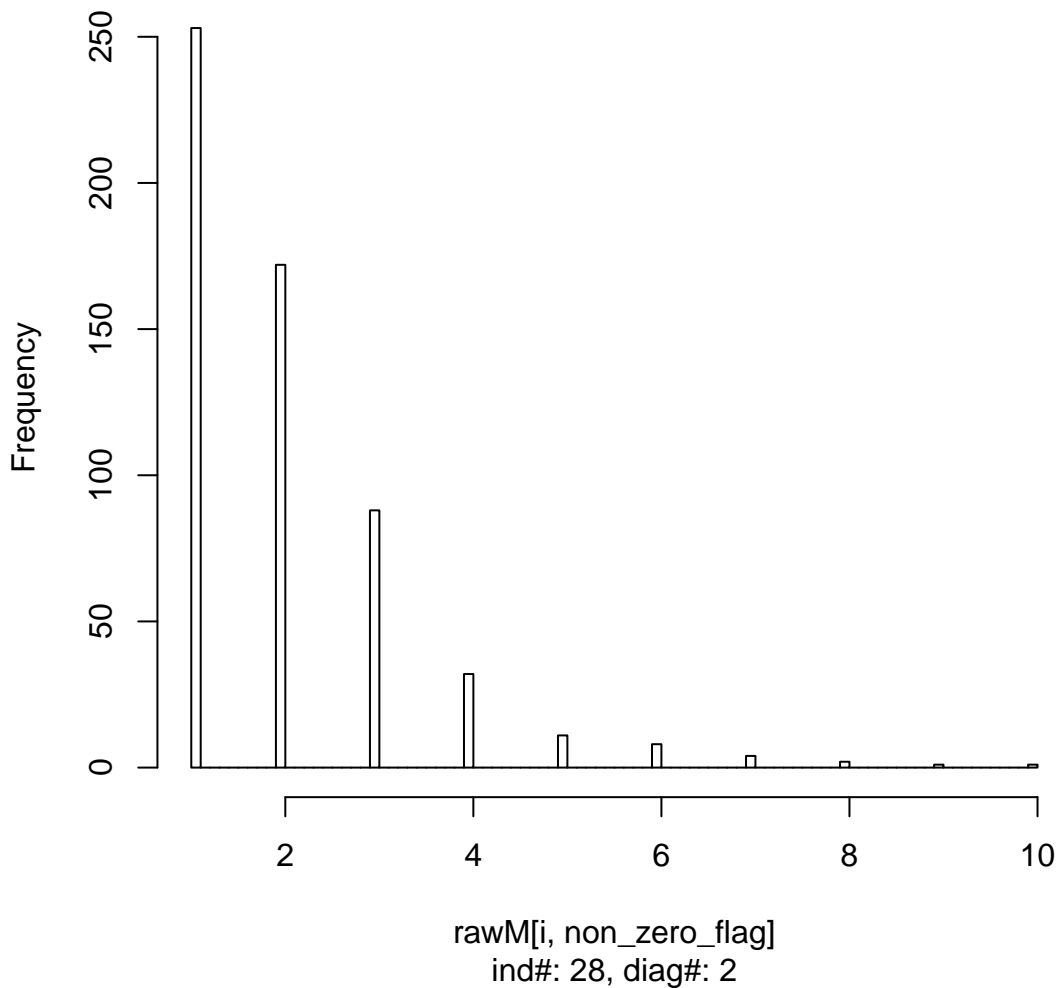
max of nozero log-express of genes,ksgreater sig



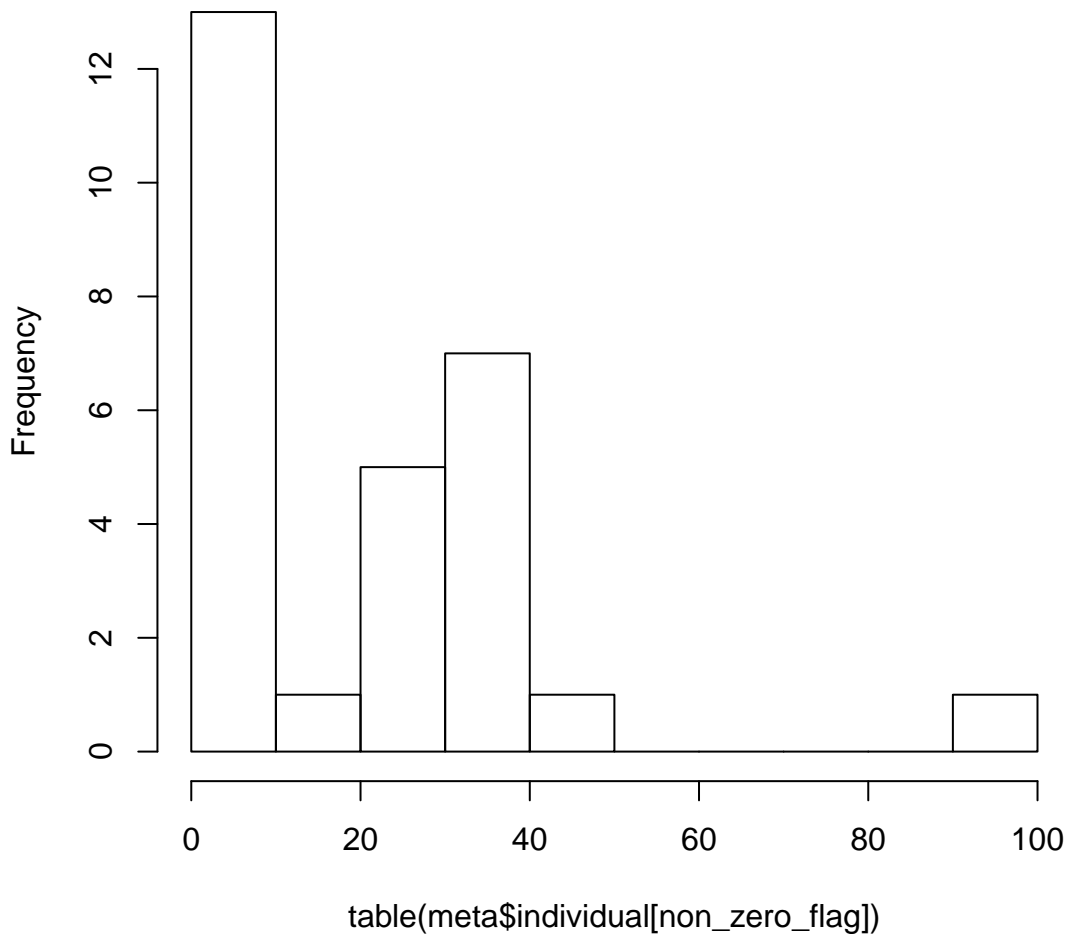
max of nozero log-expres of genes,ks no sig



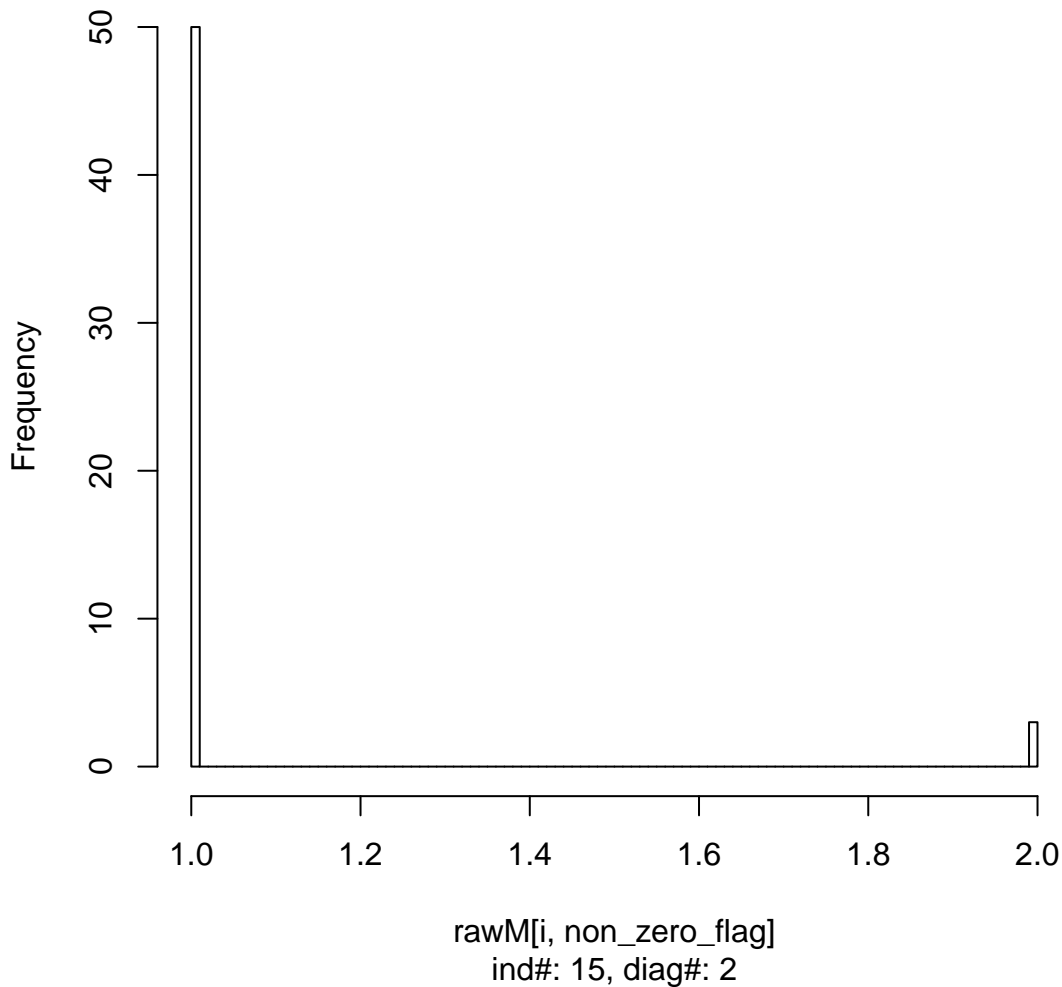
less sig: log expression of gene#31, pval ob=0.1315, non-zero nu



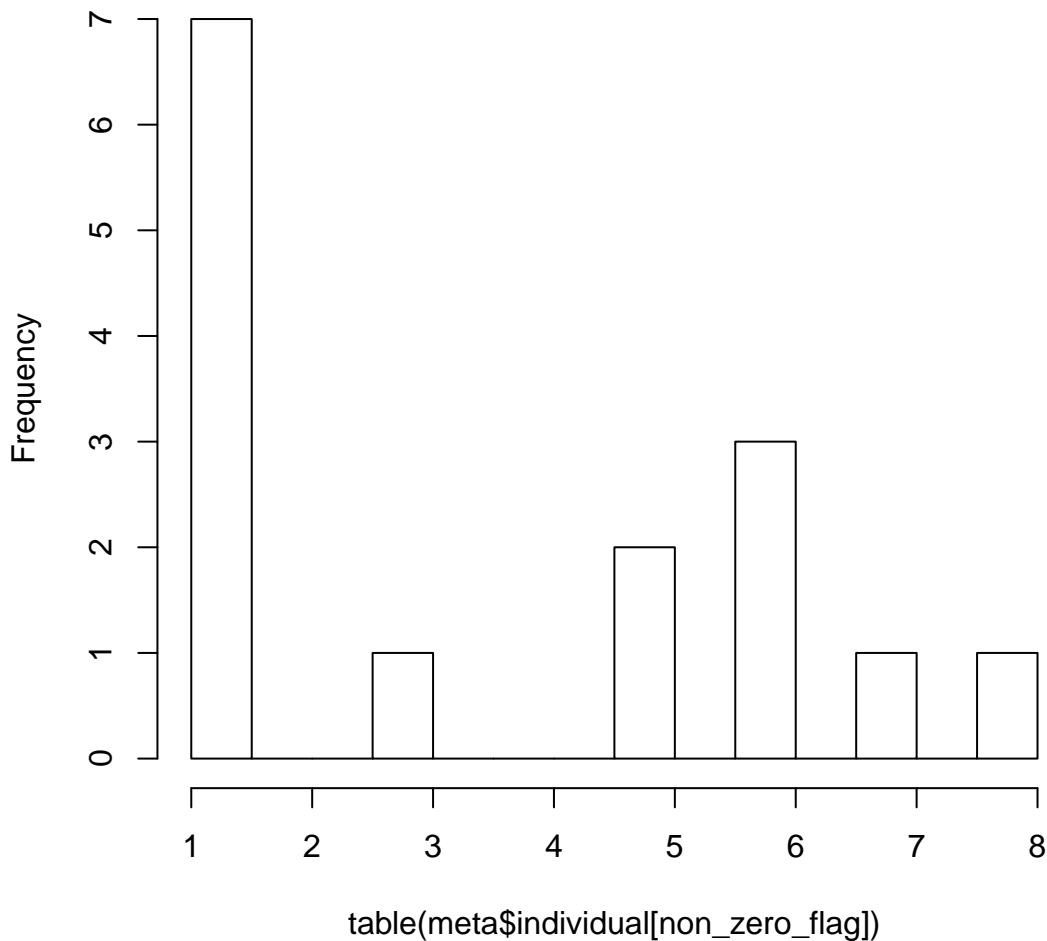
KSless sig: individual expression cell count of gene#31



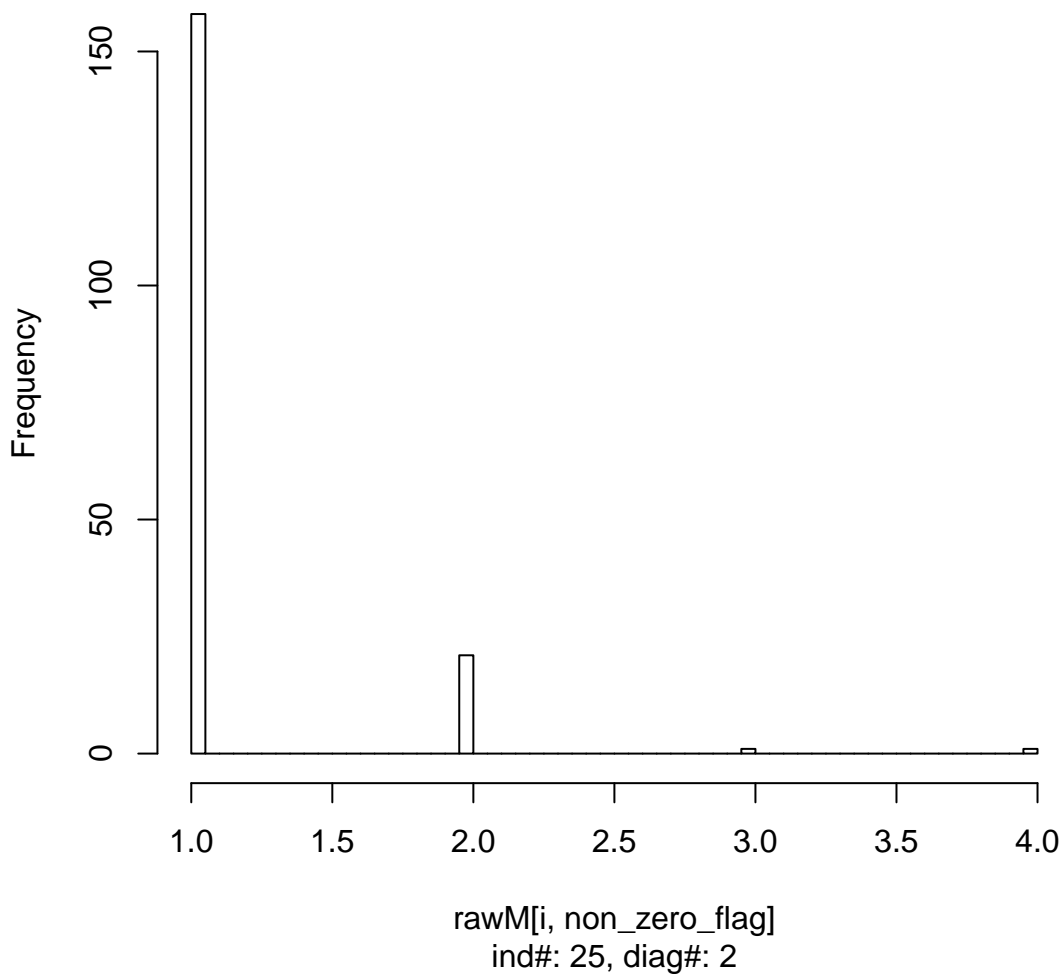
less sig: log expression of gene#39, pval ob=0.1705, non-zero n



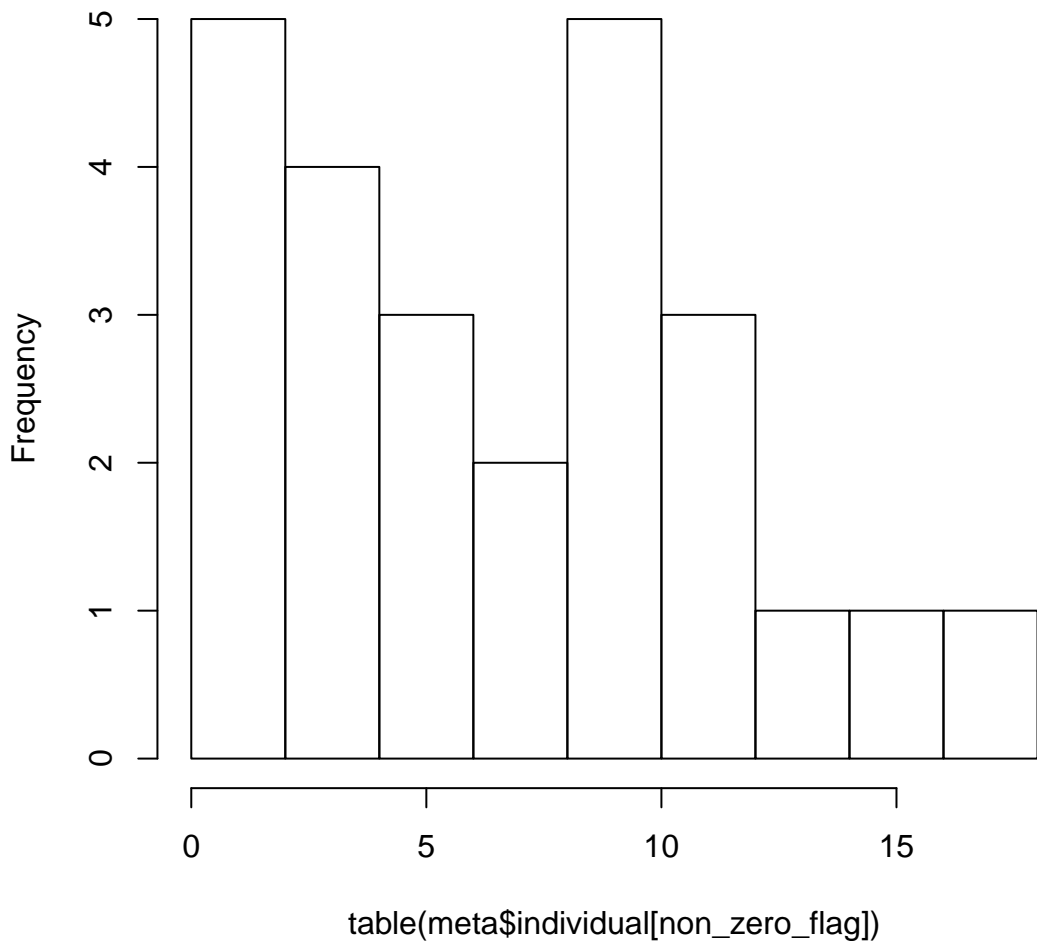
KSless sig: individual expression cell count of gene#39



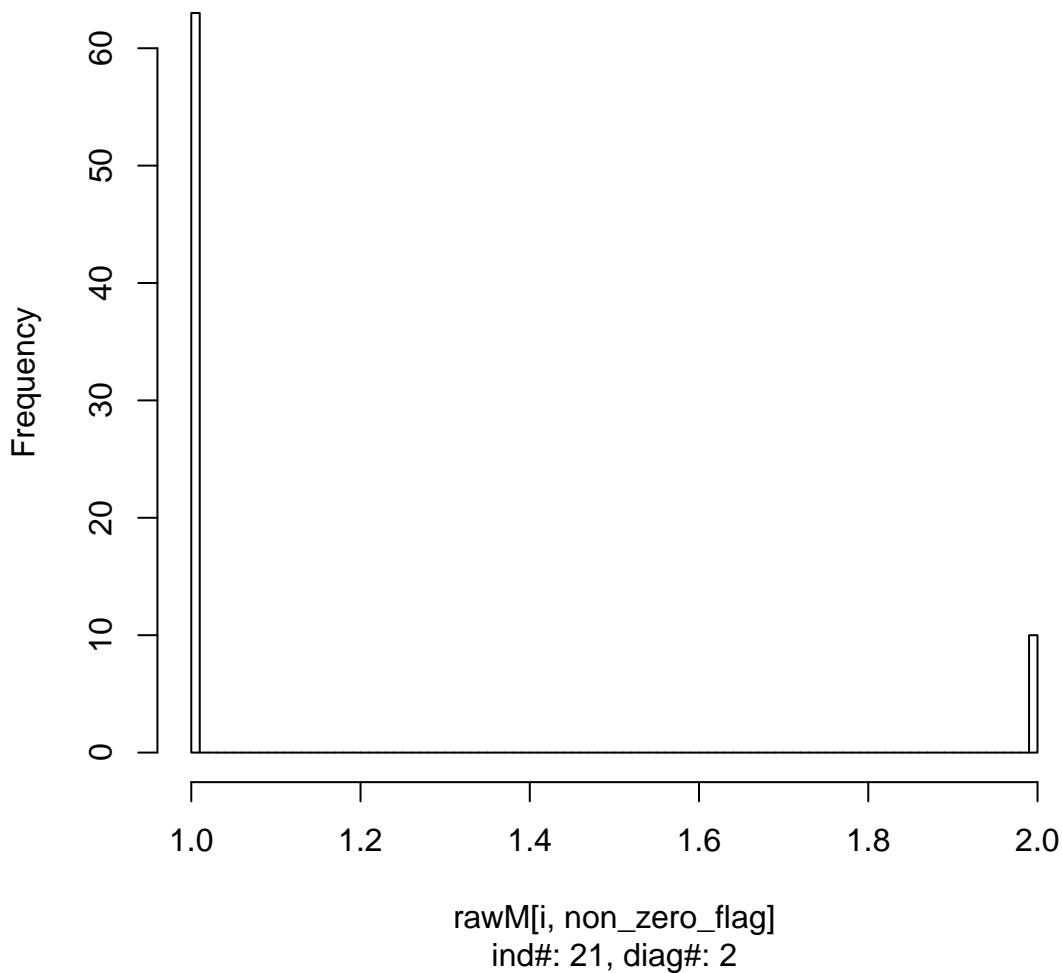
less sig: log expression of gene#53, pval ob=0.007, non-zero nu



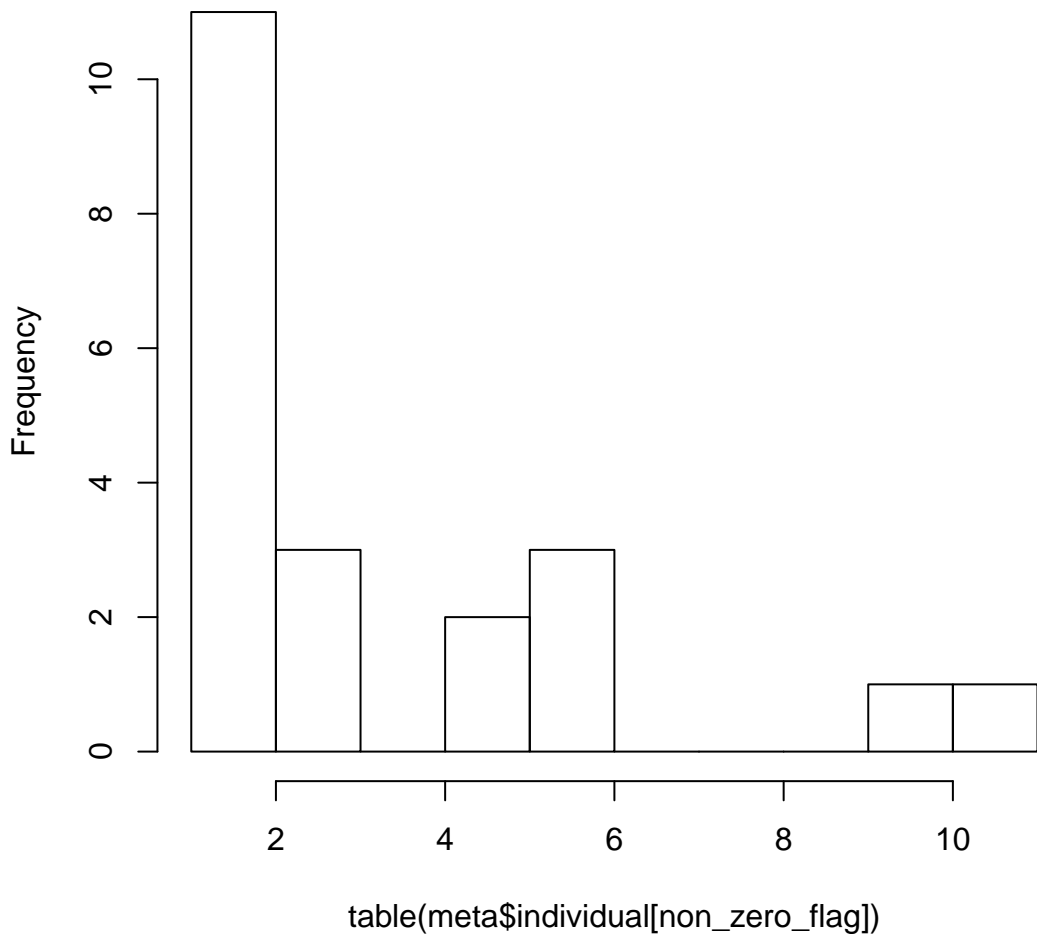
KSless sig: individual expression cell count of gene#53



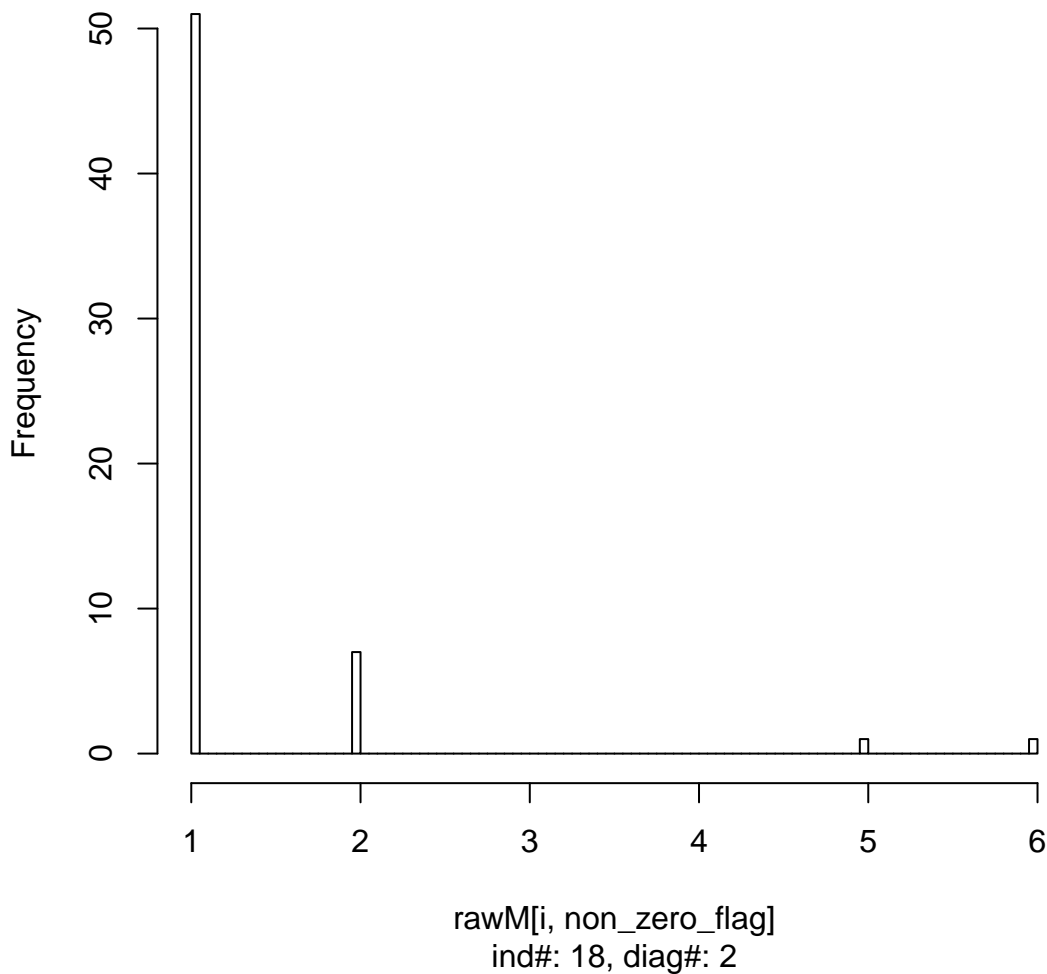
less sig: log expression of gene#66, pval ob=0.2512, non-zero n



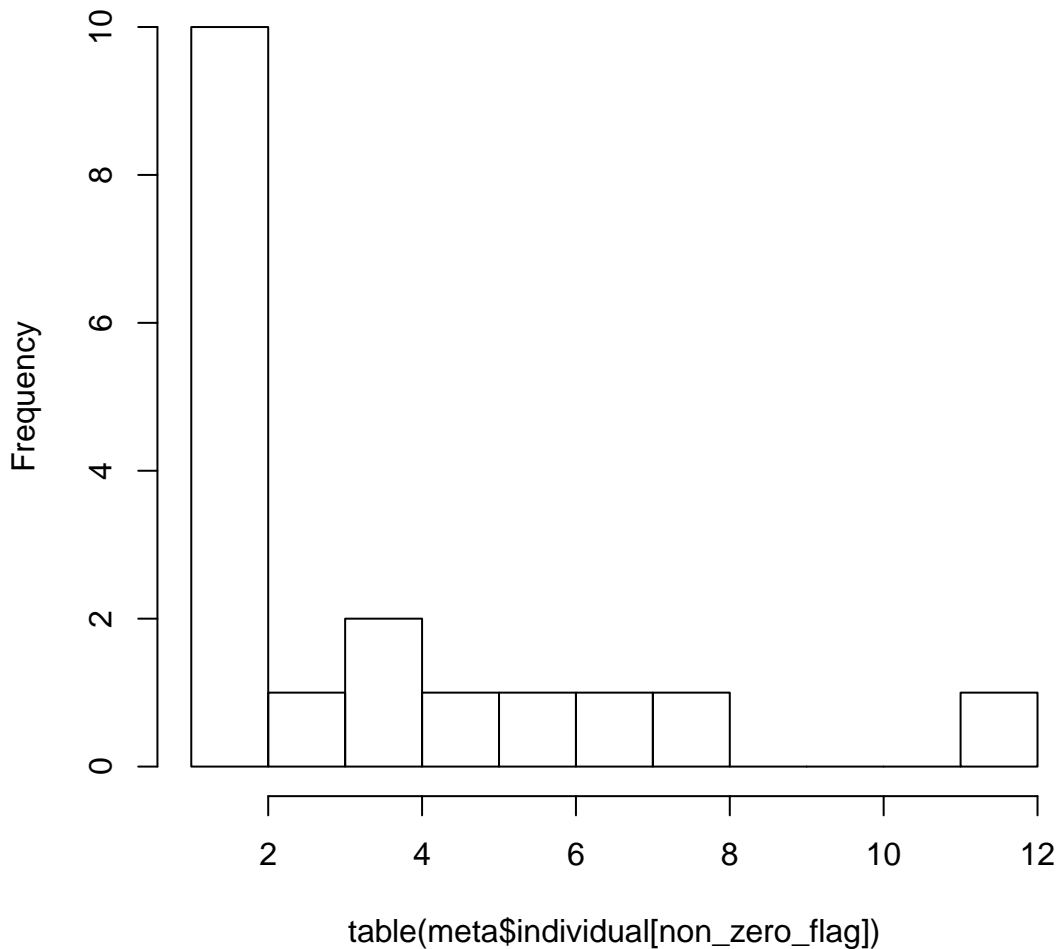
KSless sig: individual expression cell count of gene#66



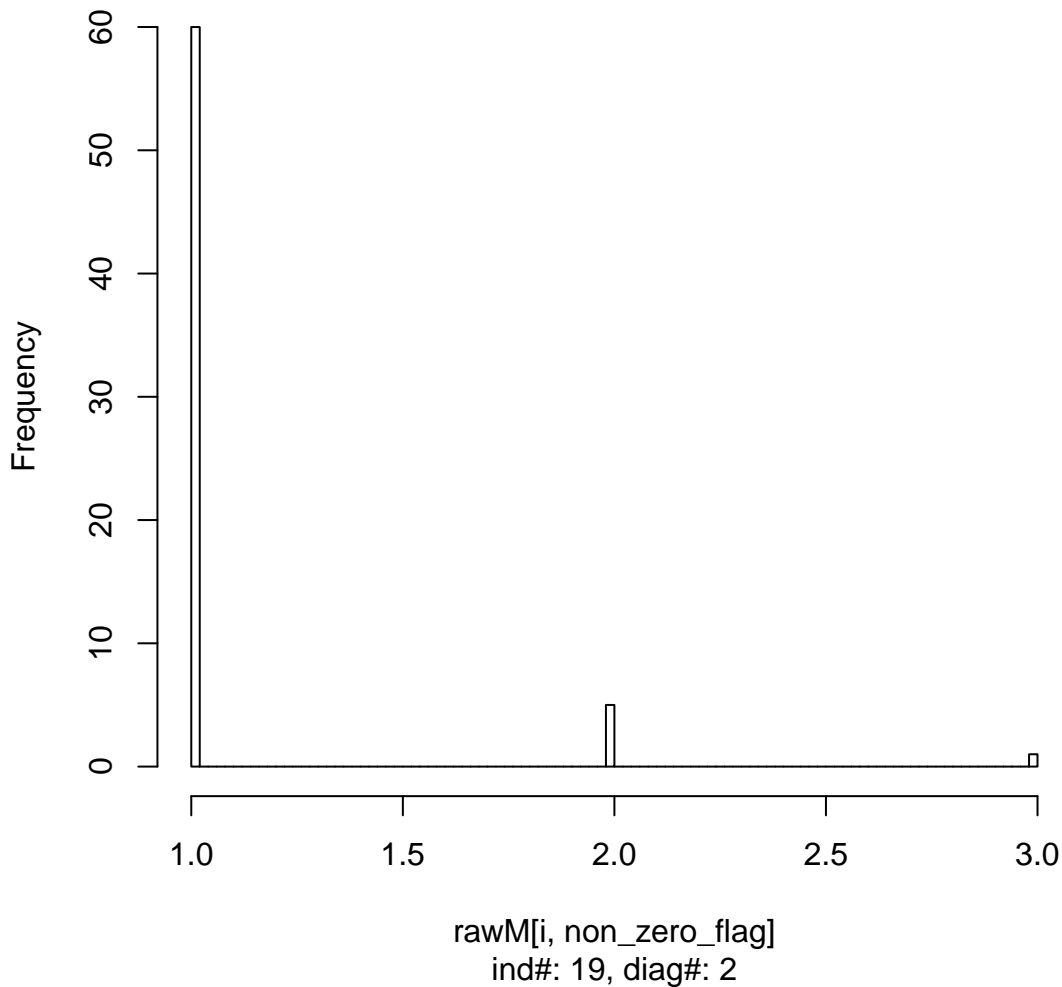
less sig: log expression of gene#68, pval ob=0.1055, non-zero n



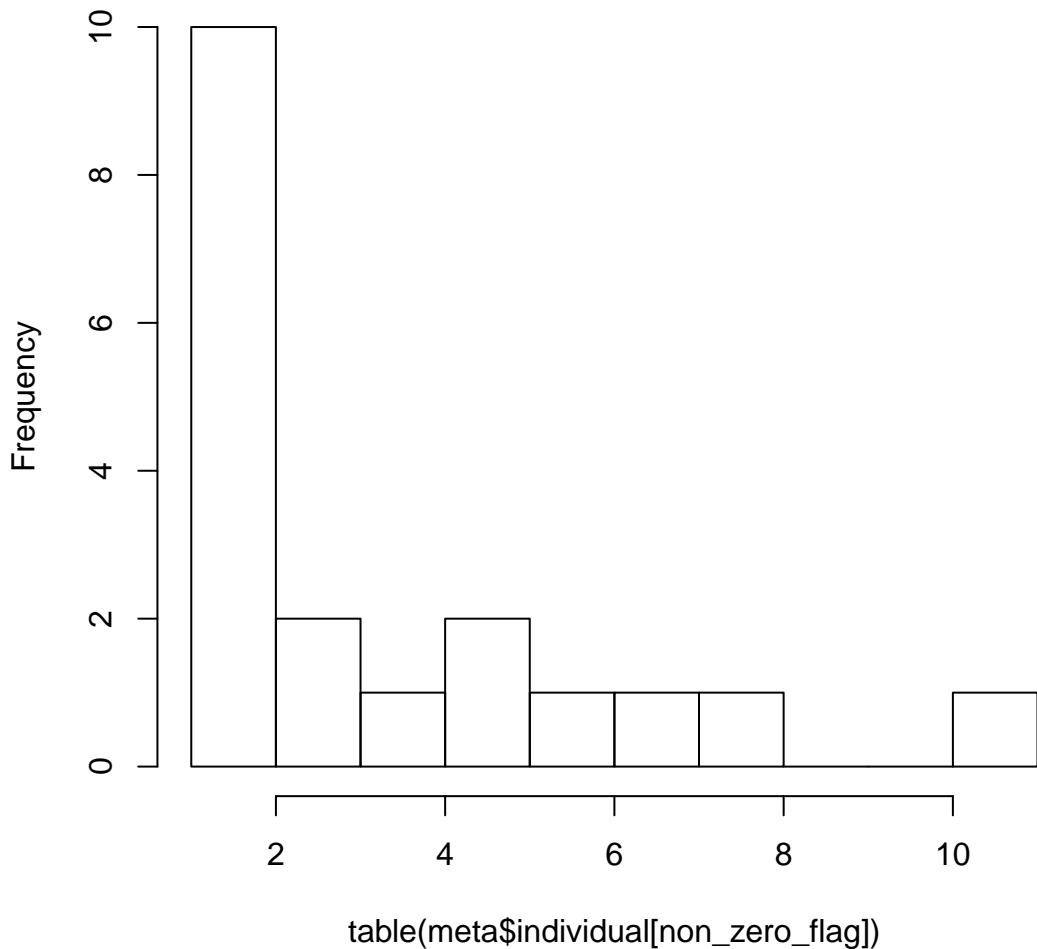
KSless sig: individual expression cell count of gene#68



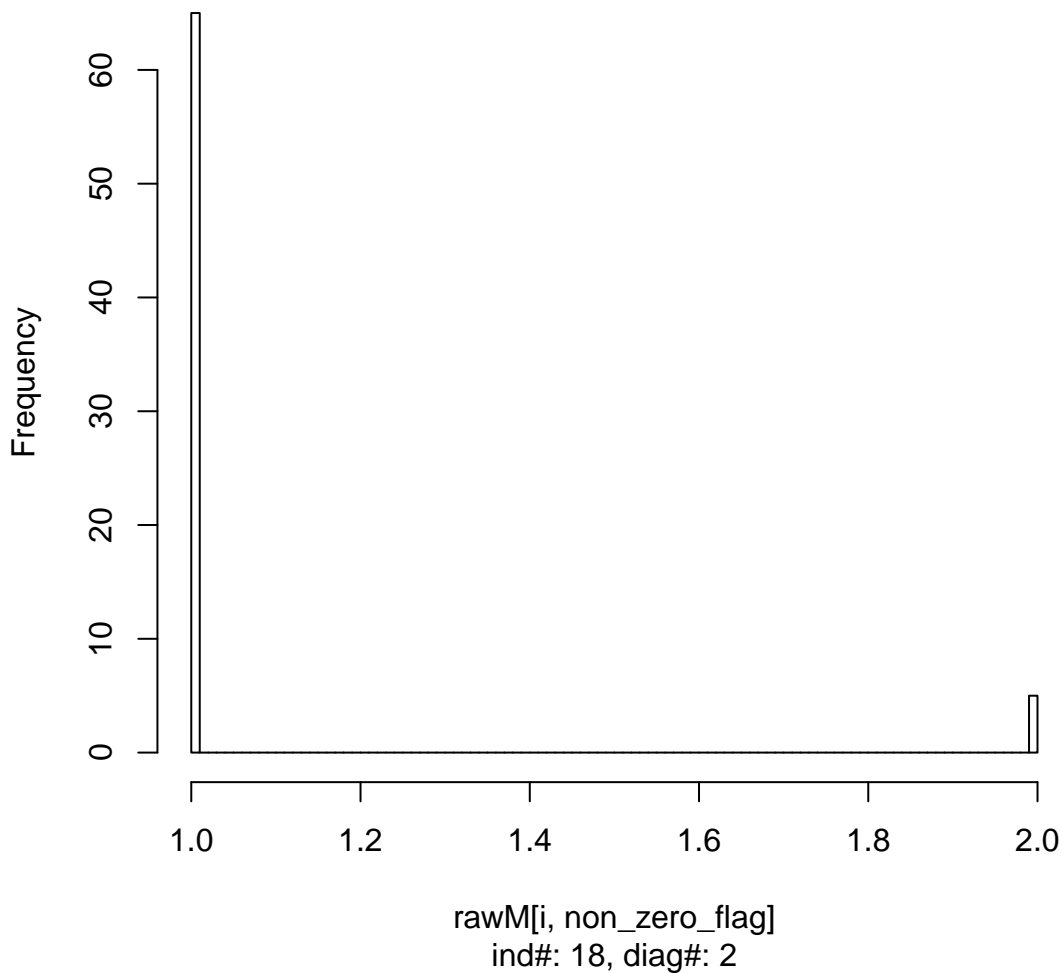
less sig: log expression of gene#79, pval ob=0.6852, non-zero n



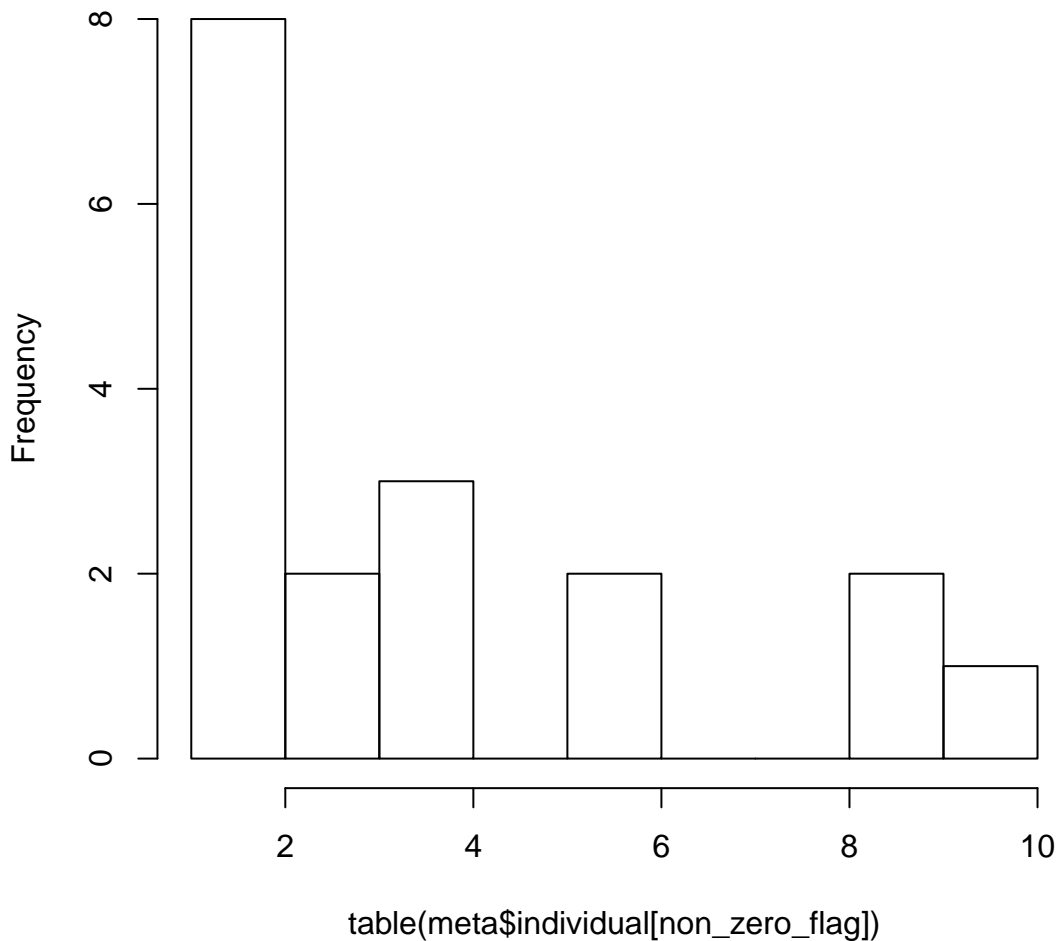
KSless sig: individual expression cell count of gene#79



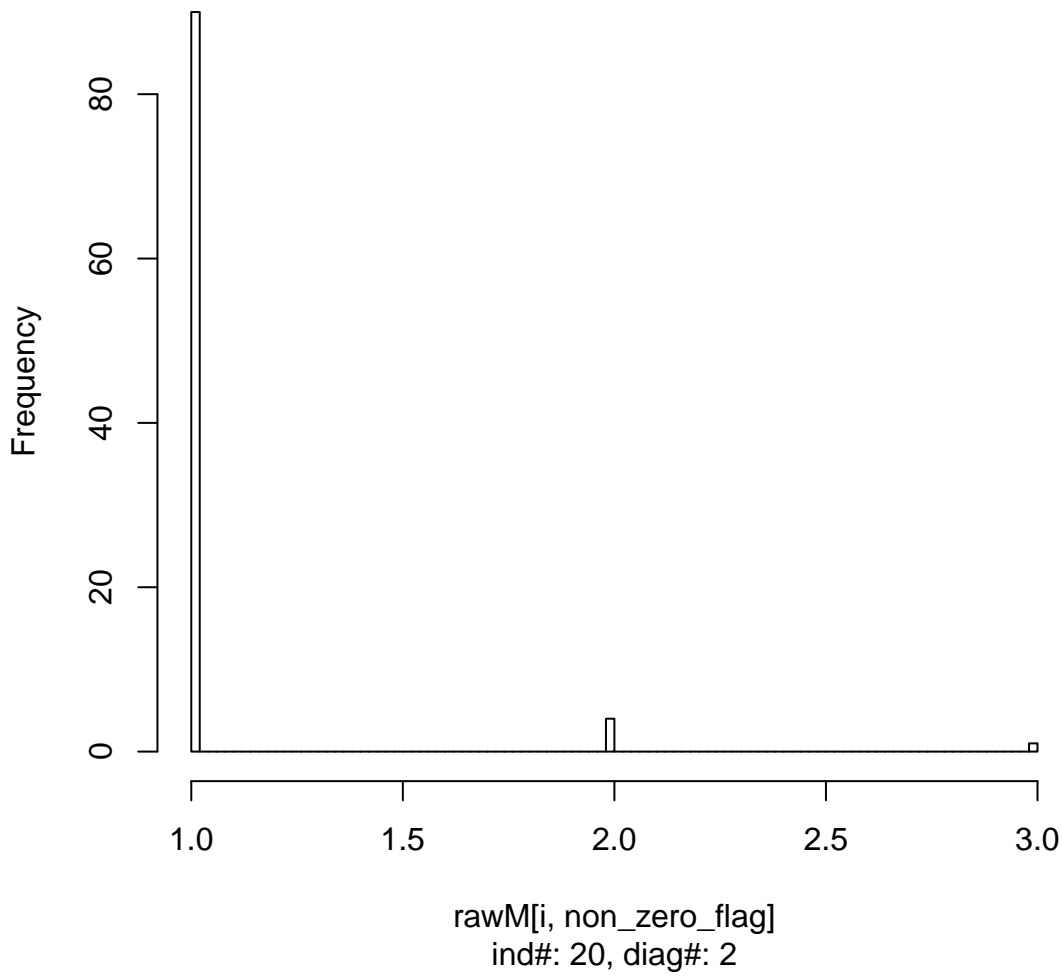
less sig: log expression of gene#92, pval ob=0.0746, non-zero n



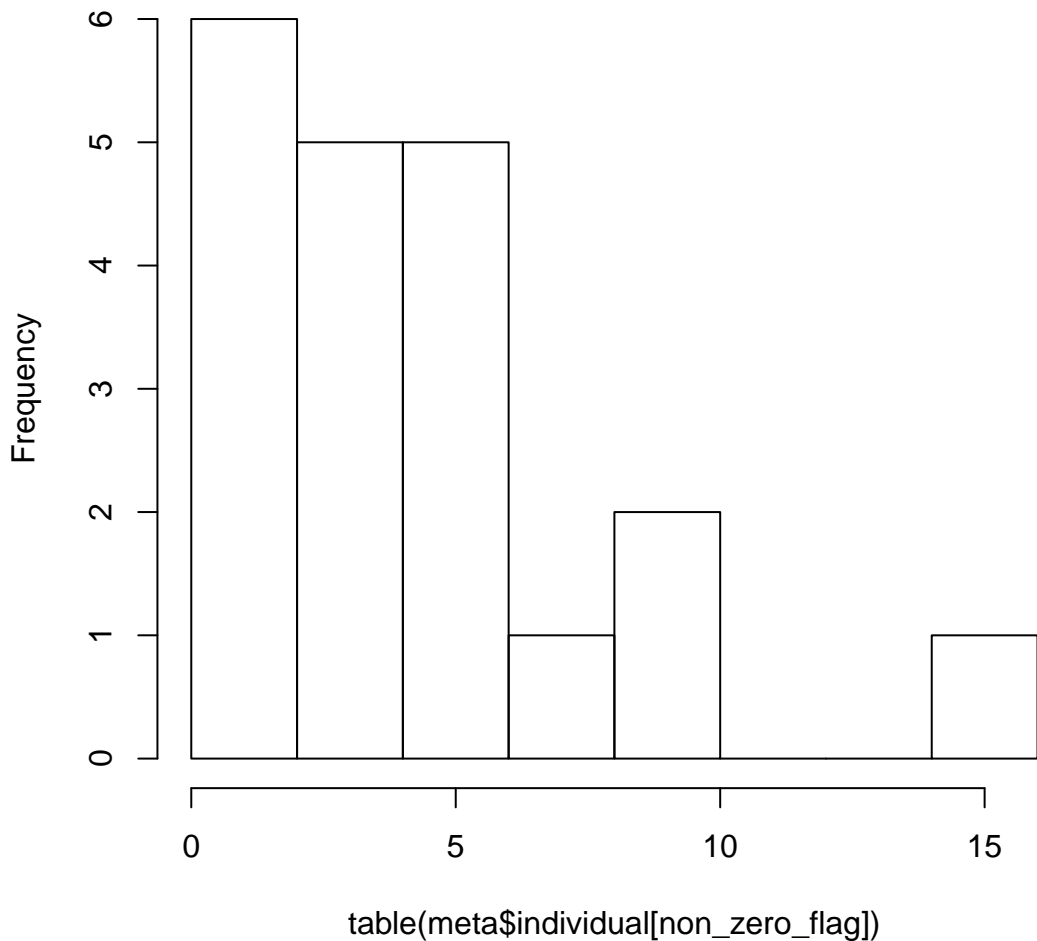
KSless sig: individual expression cell count of gene#92



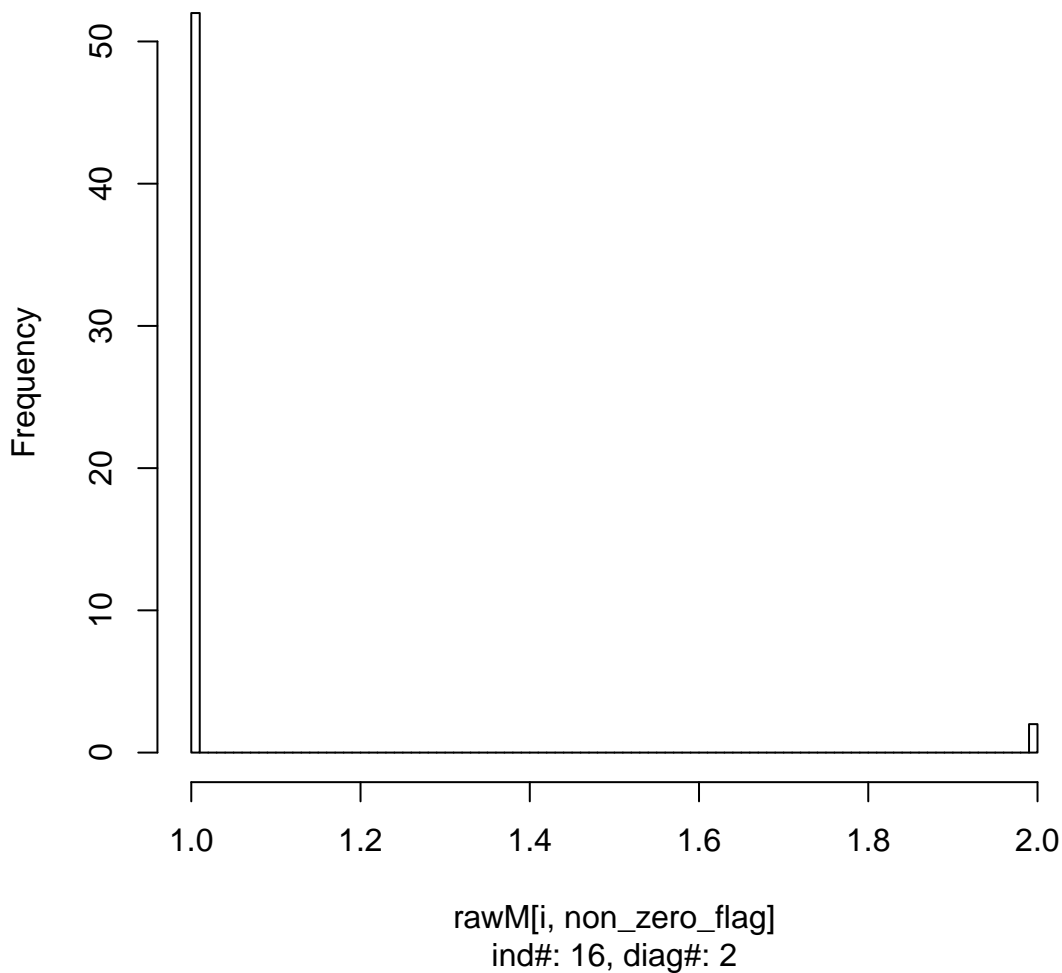
less sig: log expression of gene#93, pval ob=0.1843, non-zero n



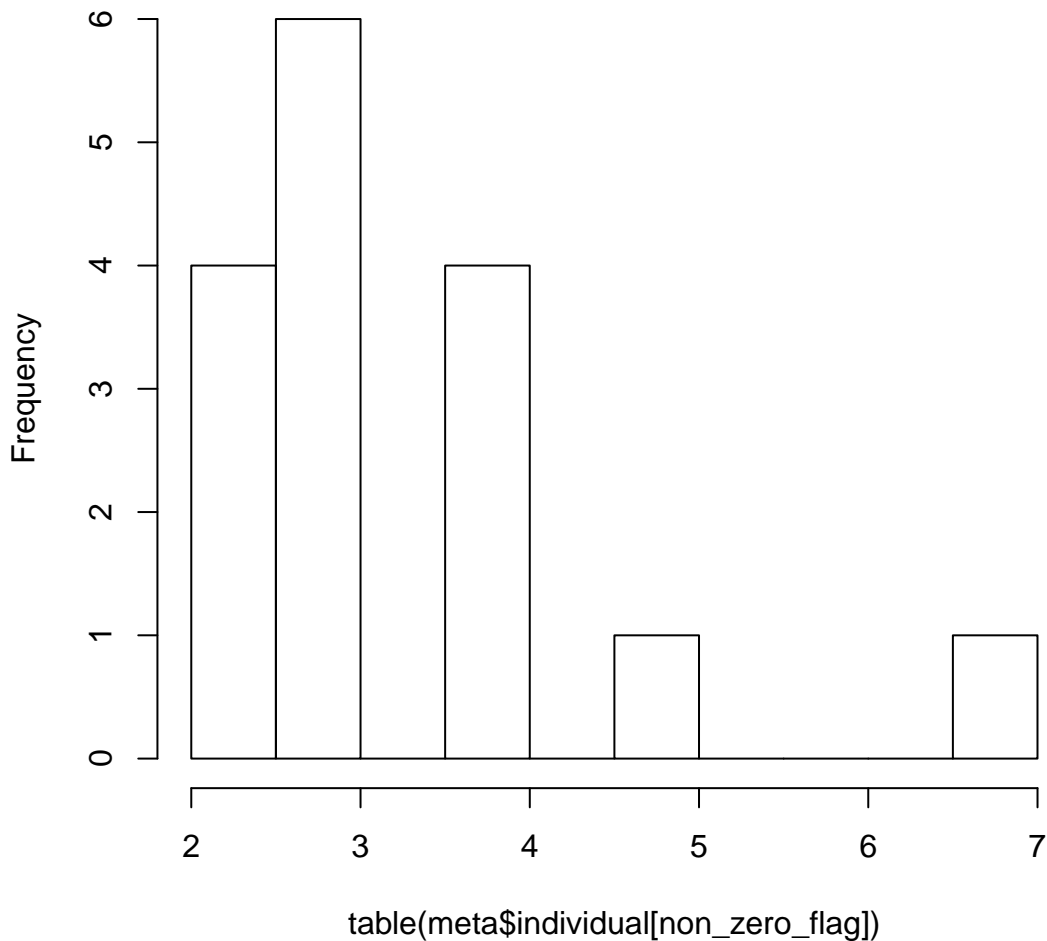
KSless sig: individual expression cell count of gene#93



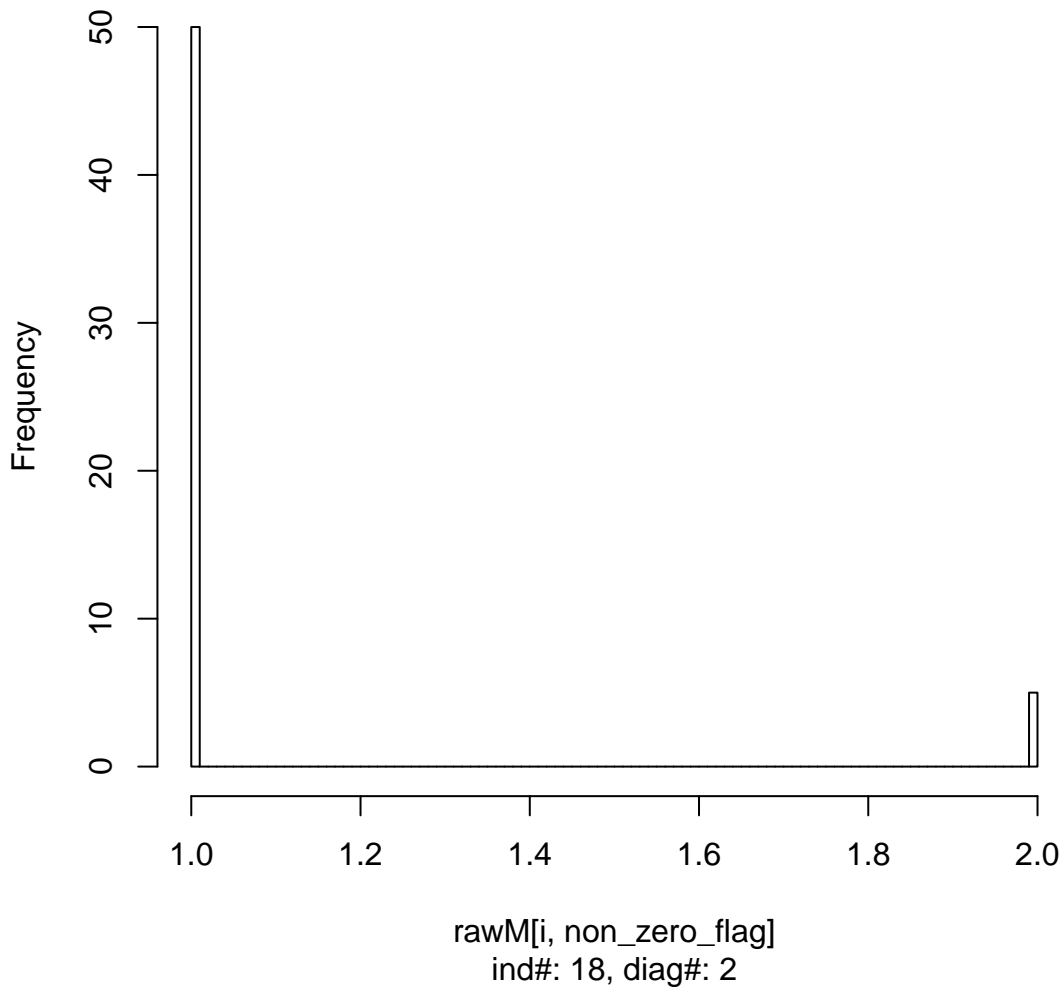
less sig: log expression of gene#103, pval ob=0.4764, non-zero n



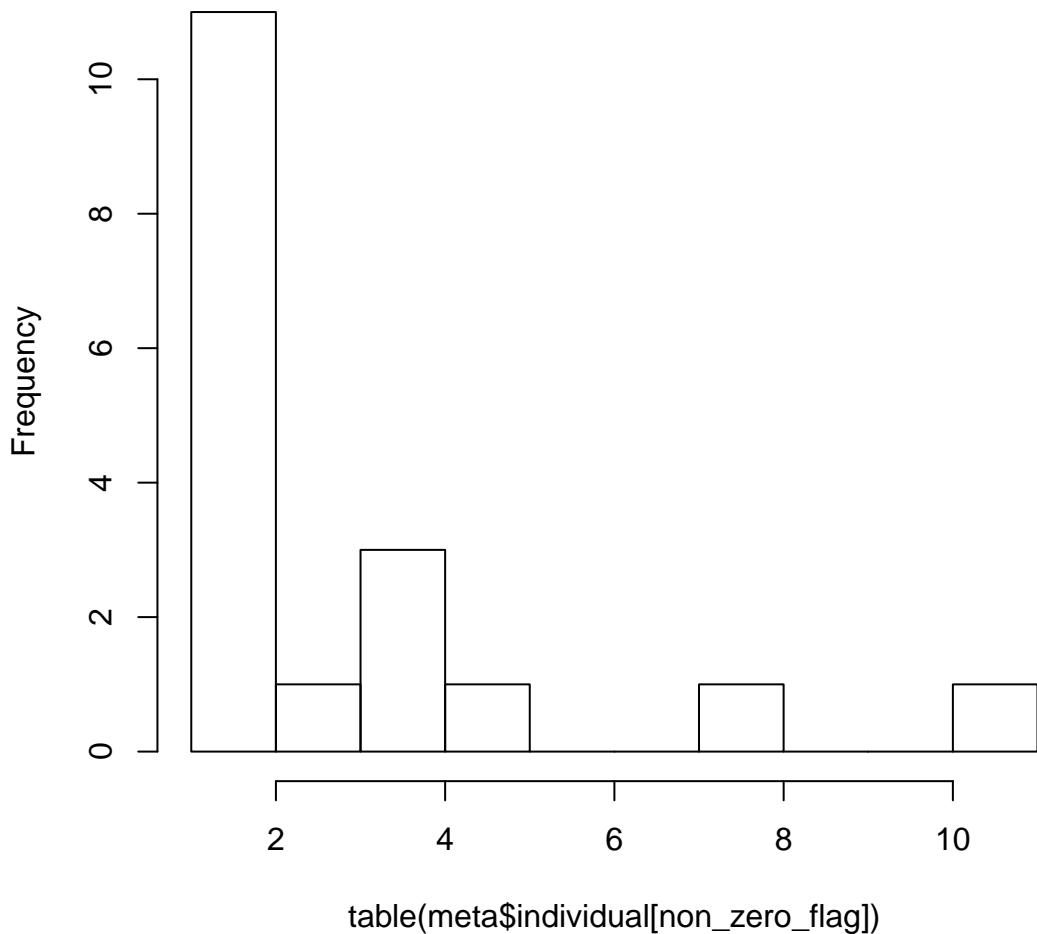
KSless sig: individual expression cell count of gene#103



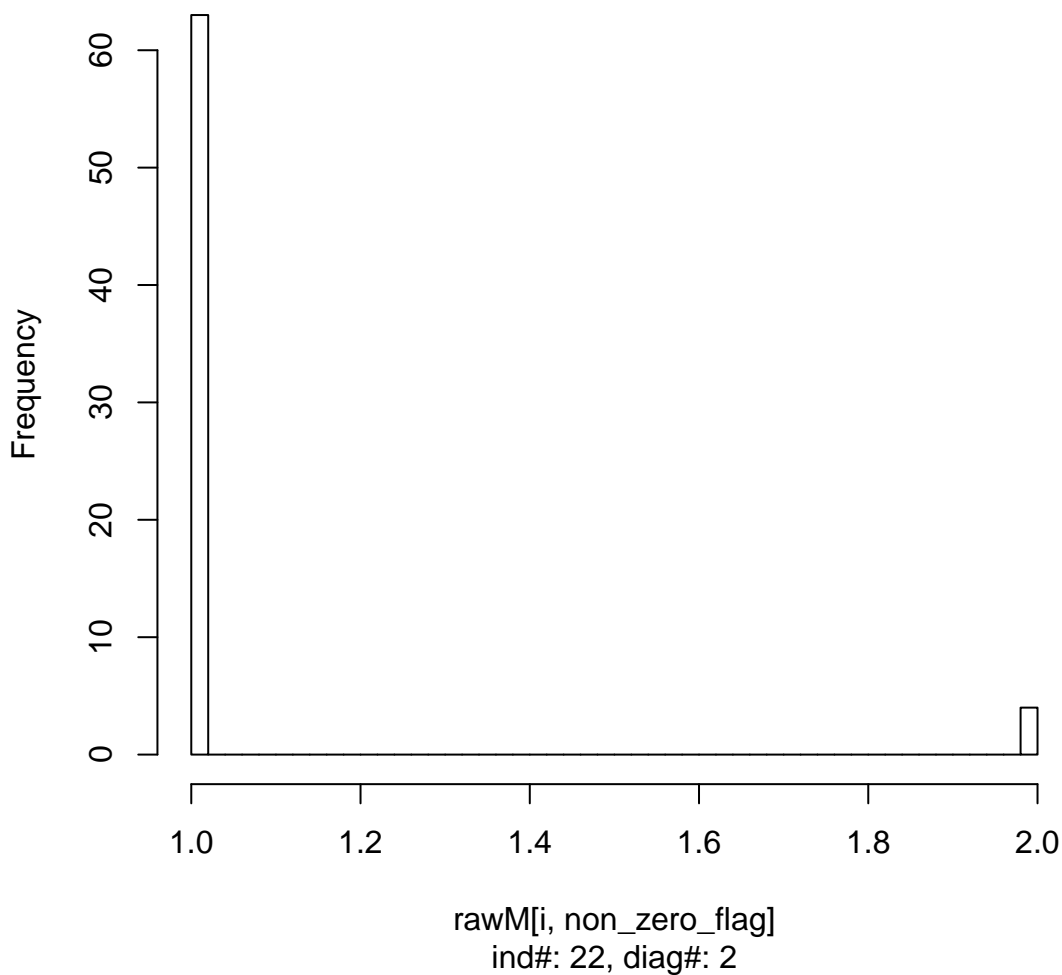
less sig: log expression of gene#105, pval ob=0.1355, non-zero n



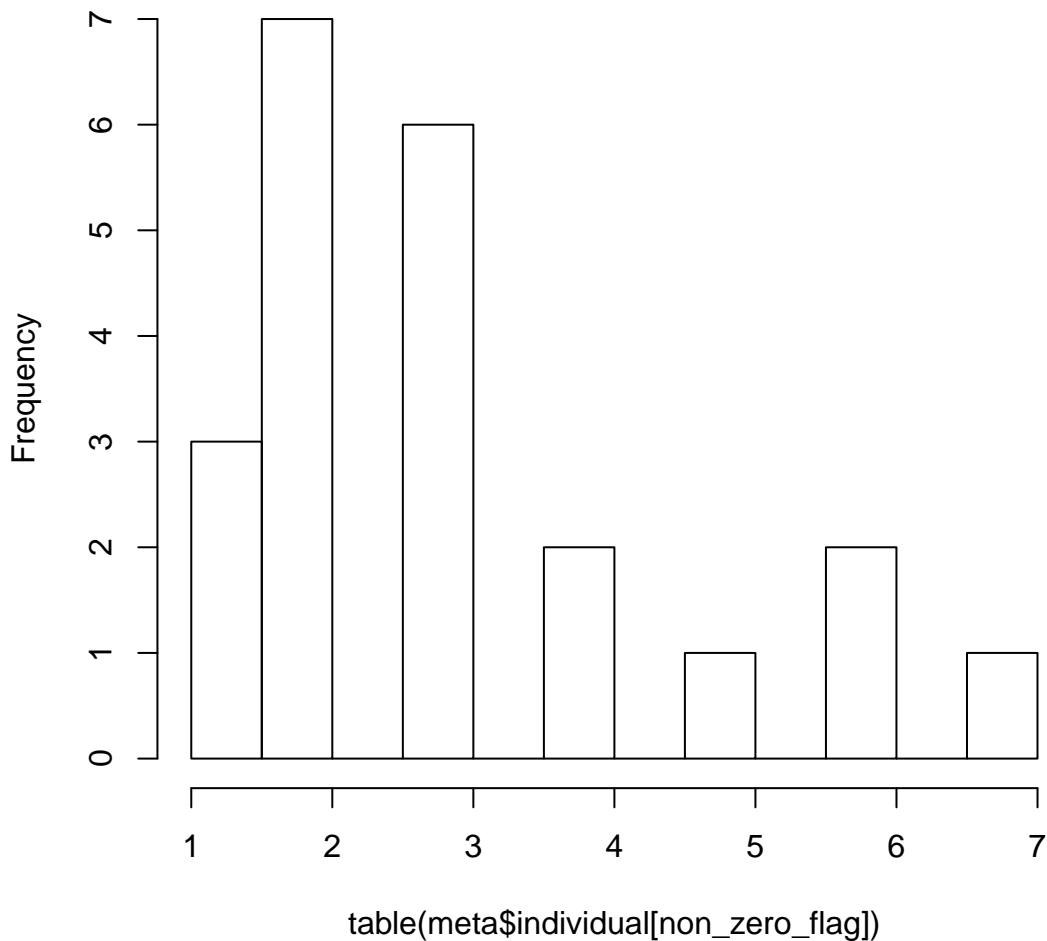
KSless sig: individual expression cell count of gene#105



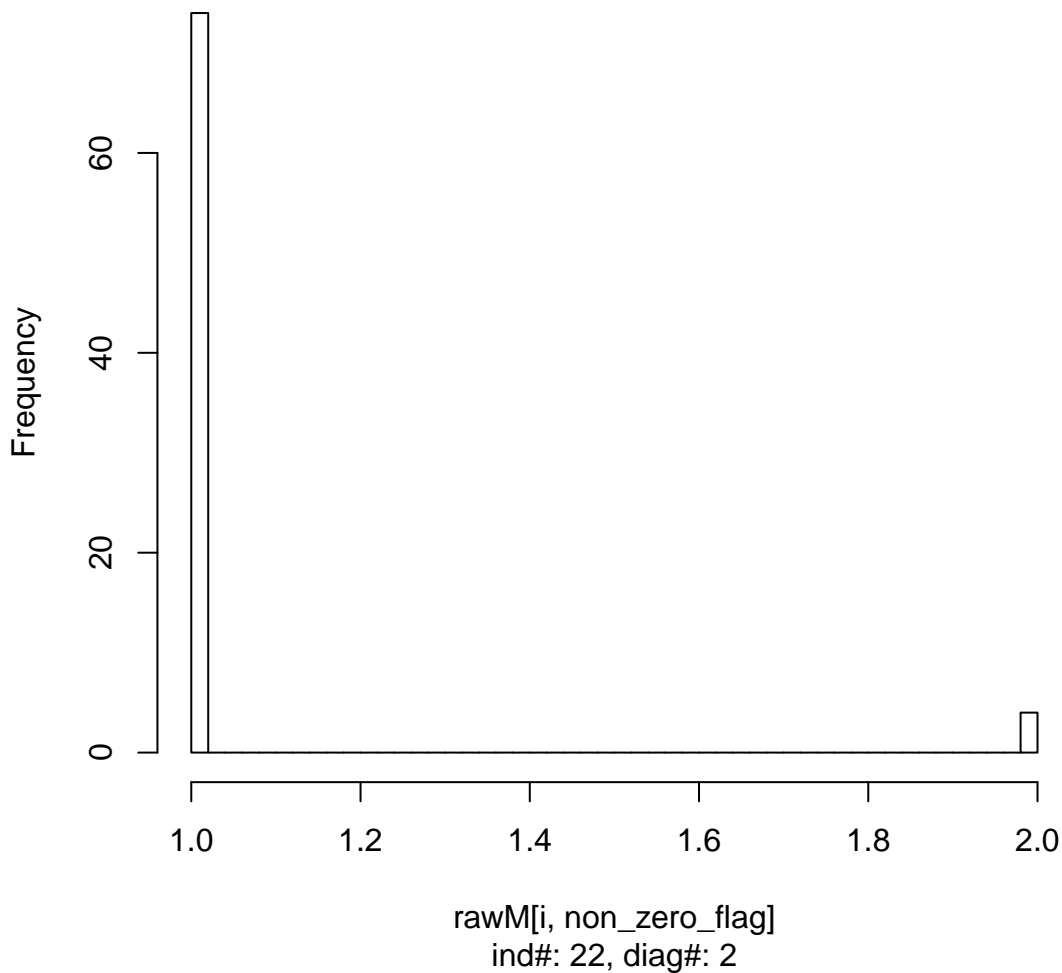
S nonsig: log expression of gene#3, pval ob=0.0258, non-zero nu



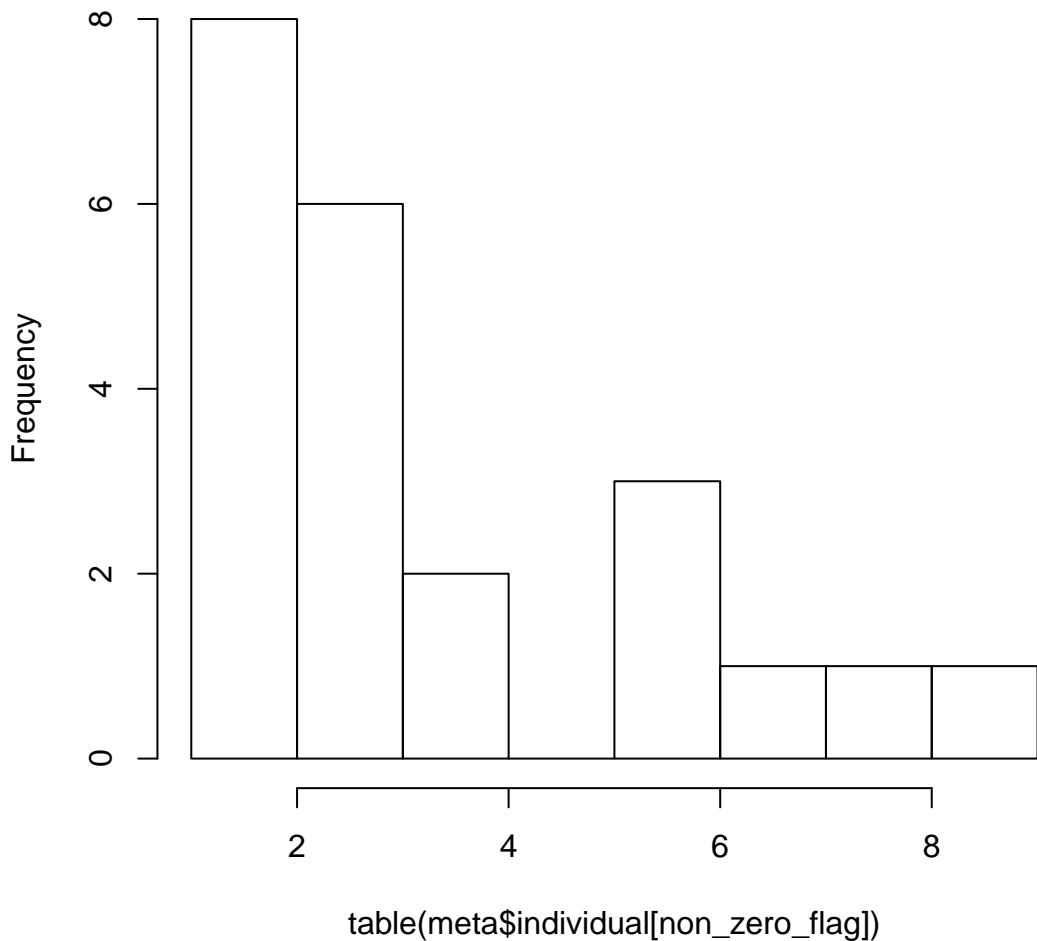
KSless nonsig: individual expression cell count of gene#3



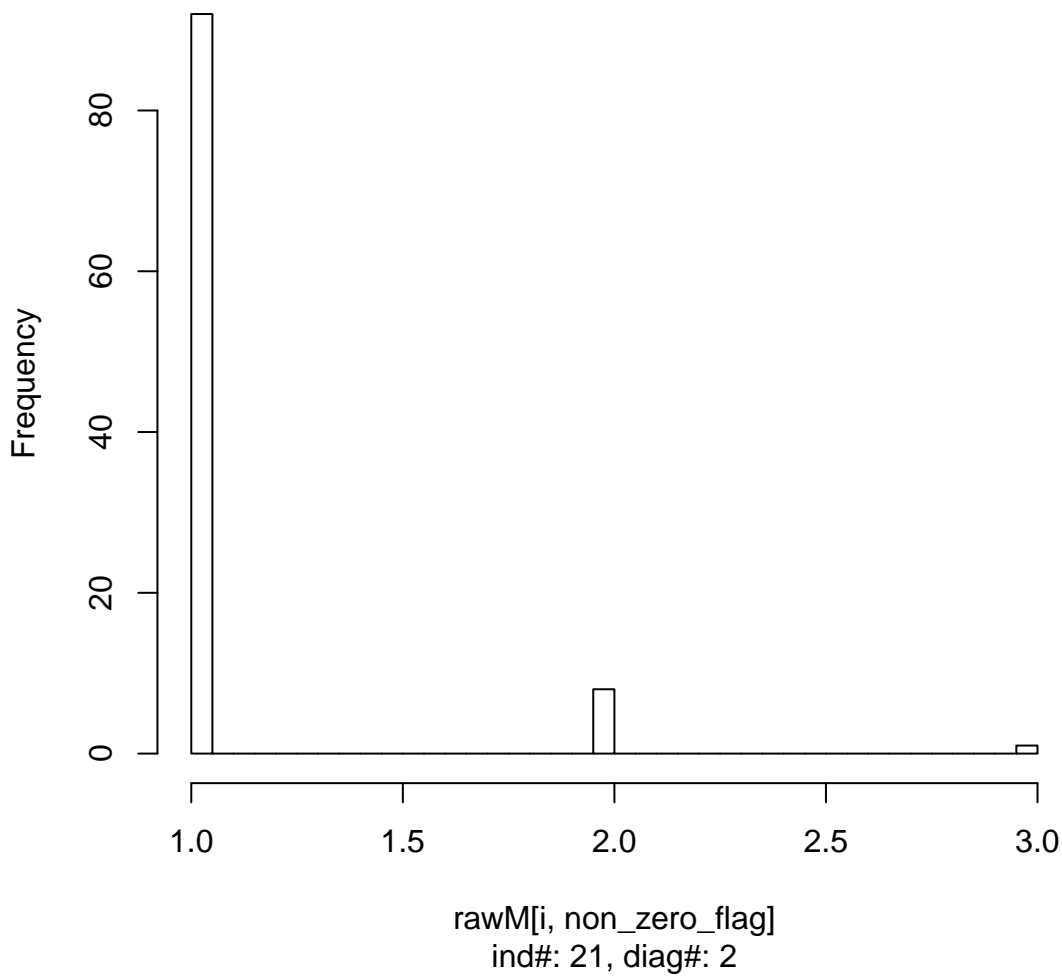
S nonsig: log expression of gene#4, pval ob=0.0043, non-zero nu



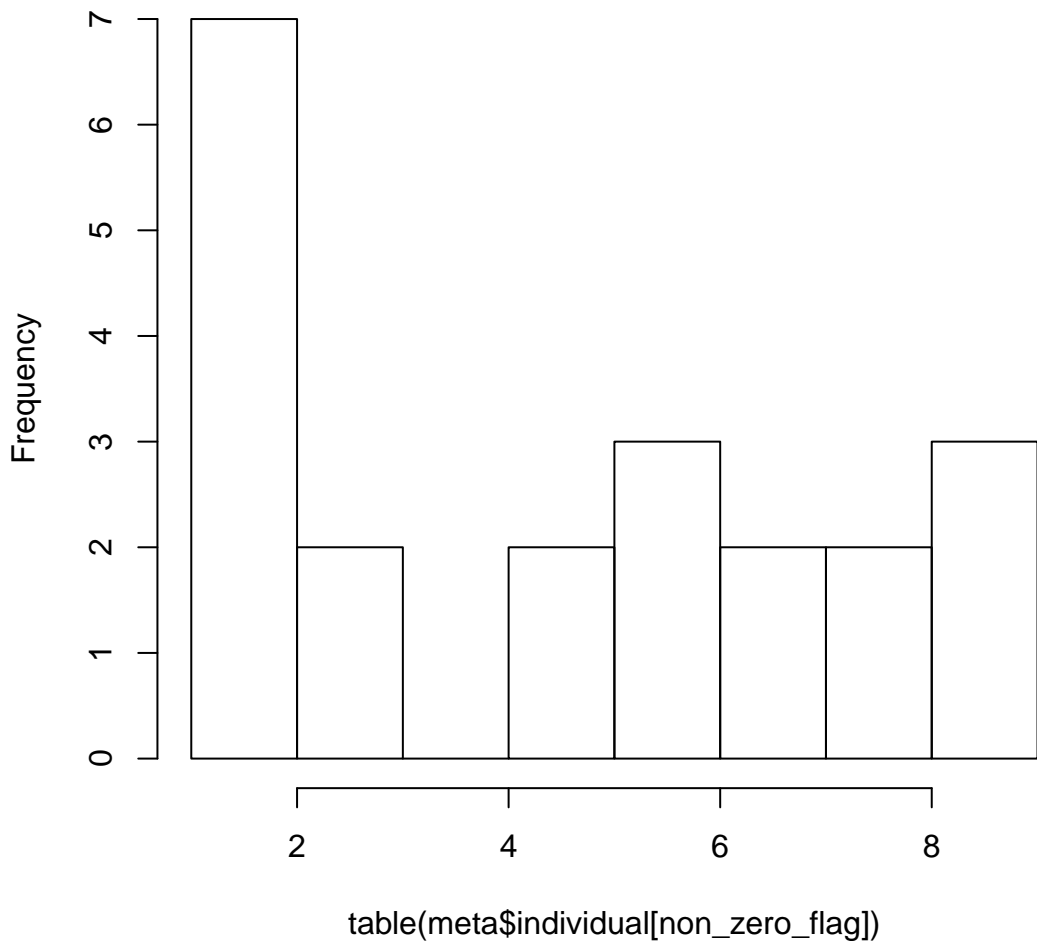
KSless nonsig: individual expression cell count of gene#4



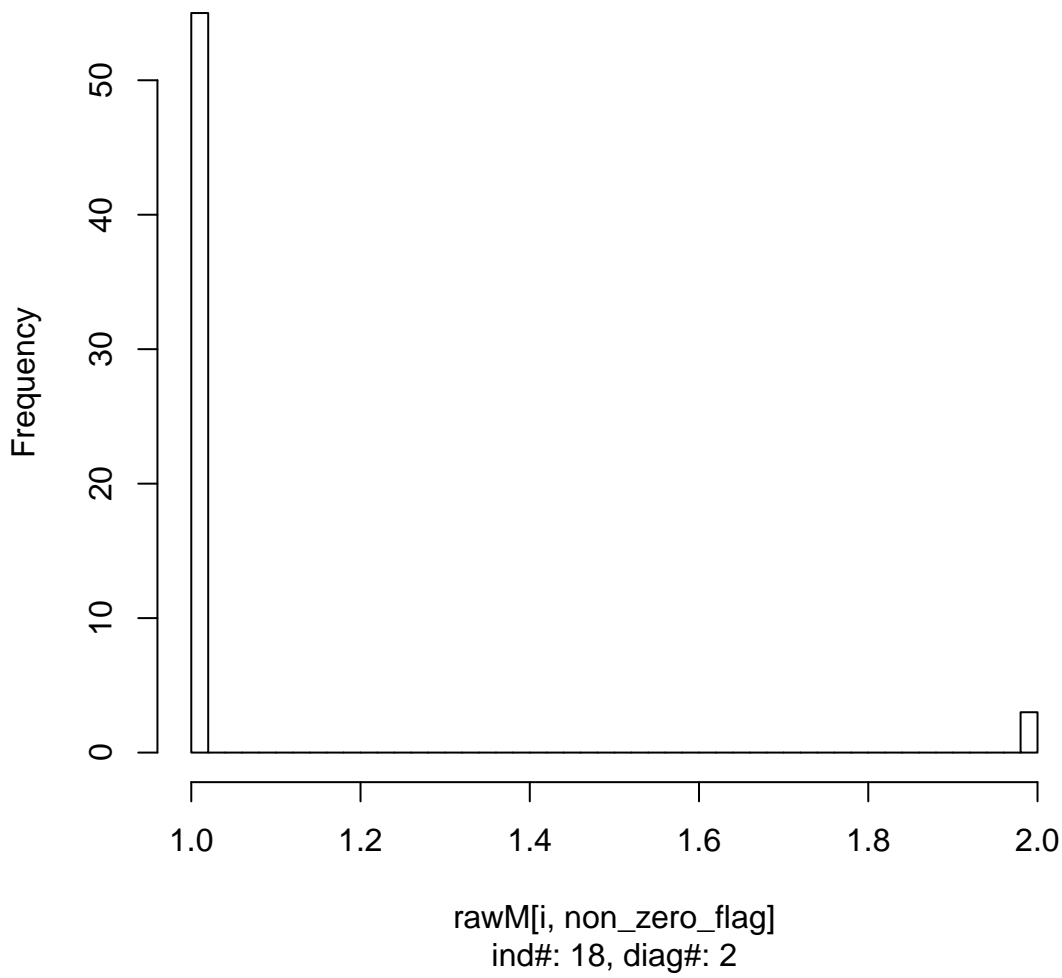
S nonsig: log expression of gene#6, pval ob=0.3247, non-zero nu



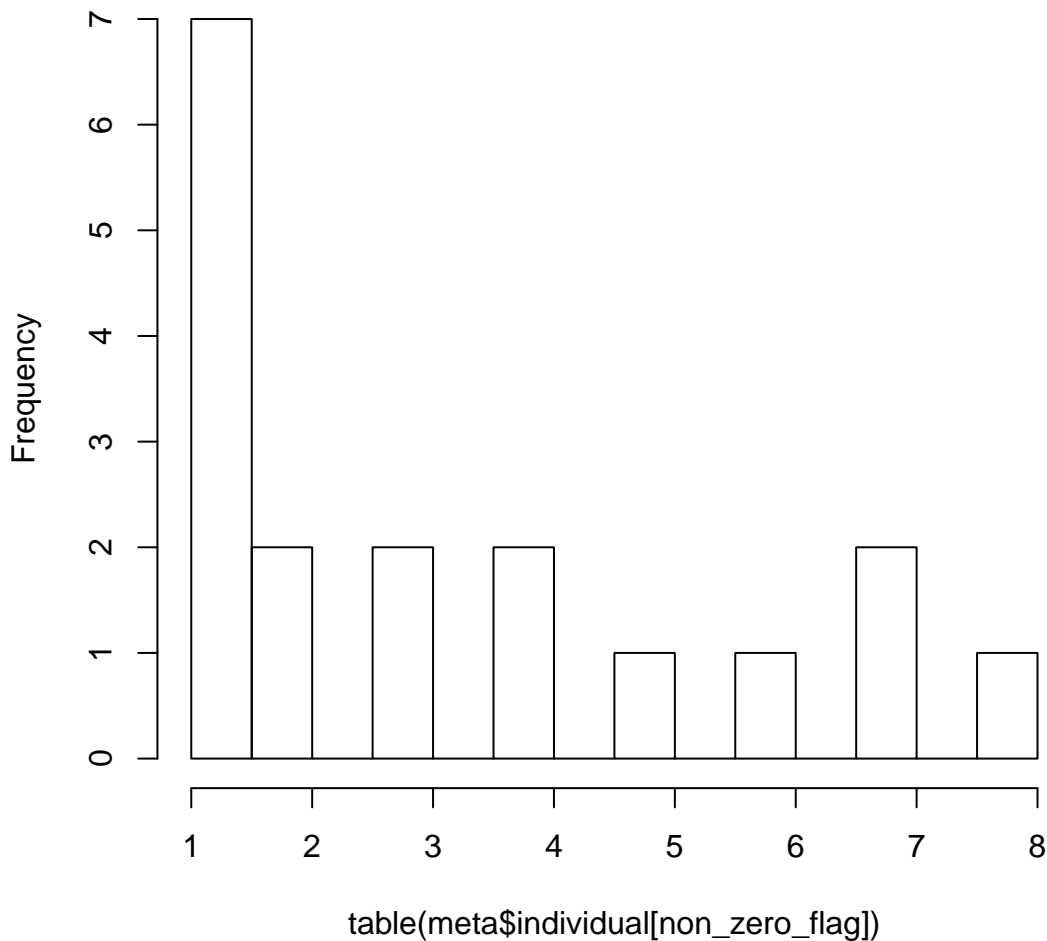
KSless nonsig: individual expression cell count of gene#6



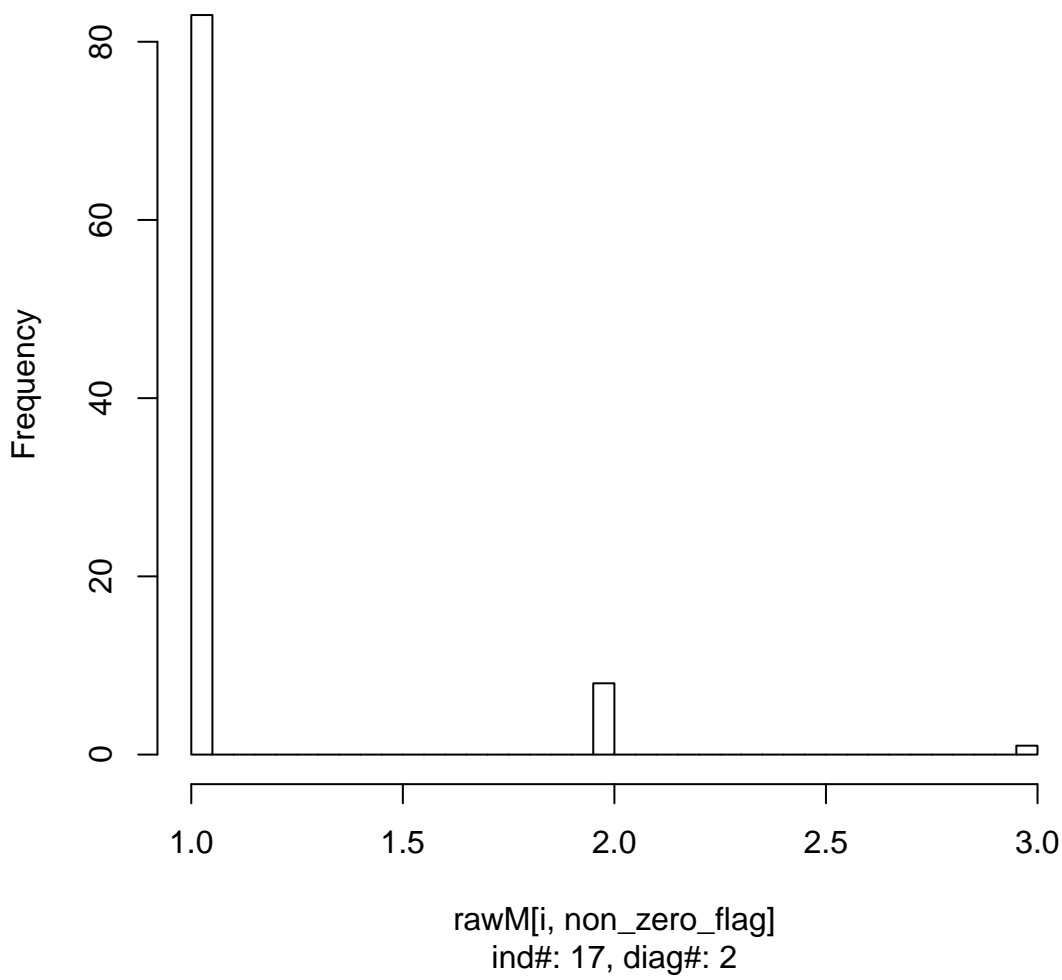
KS nonsig: log expression of gene#7, pval ob=0.92, non-zero num



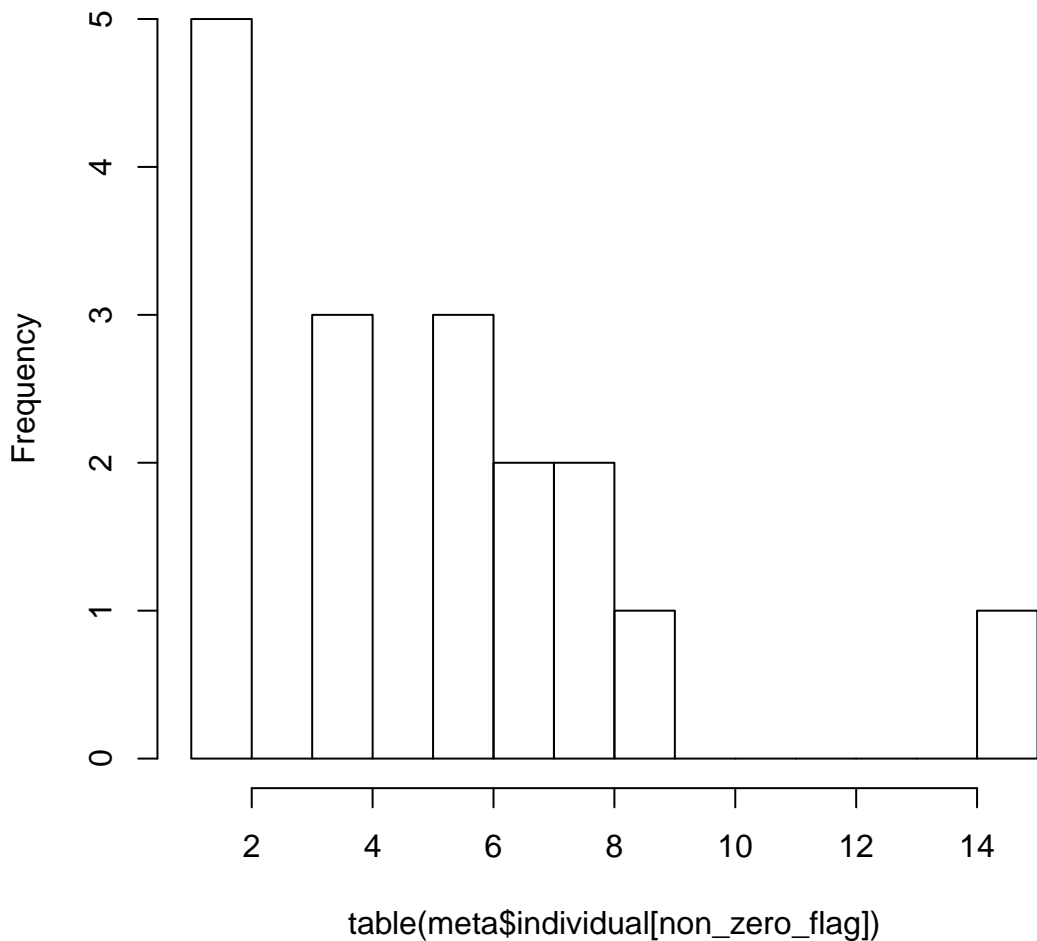
KSless nonsig: individual expression cell count of gene#7



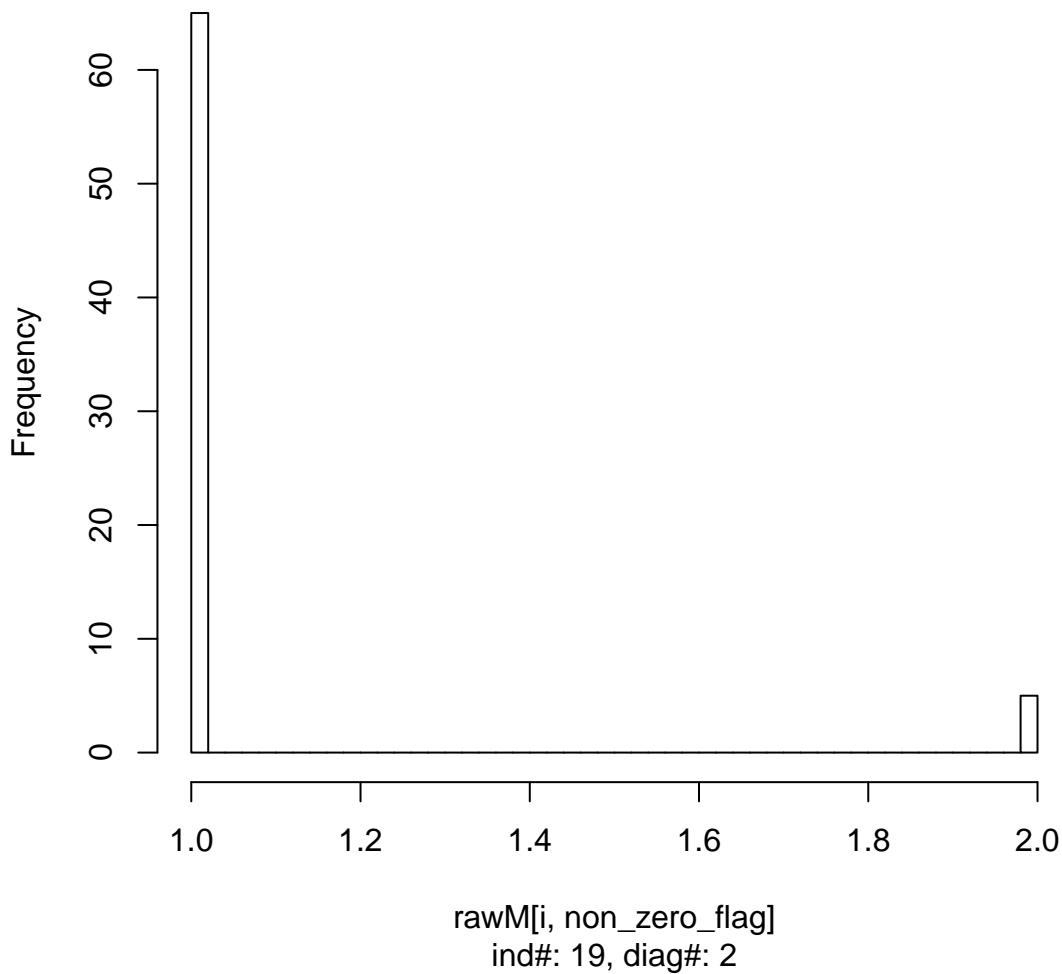
S nonsig: log expression of gene#9, pval ob=0.6679, non-zero nu



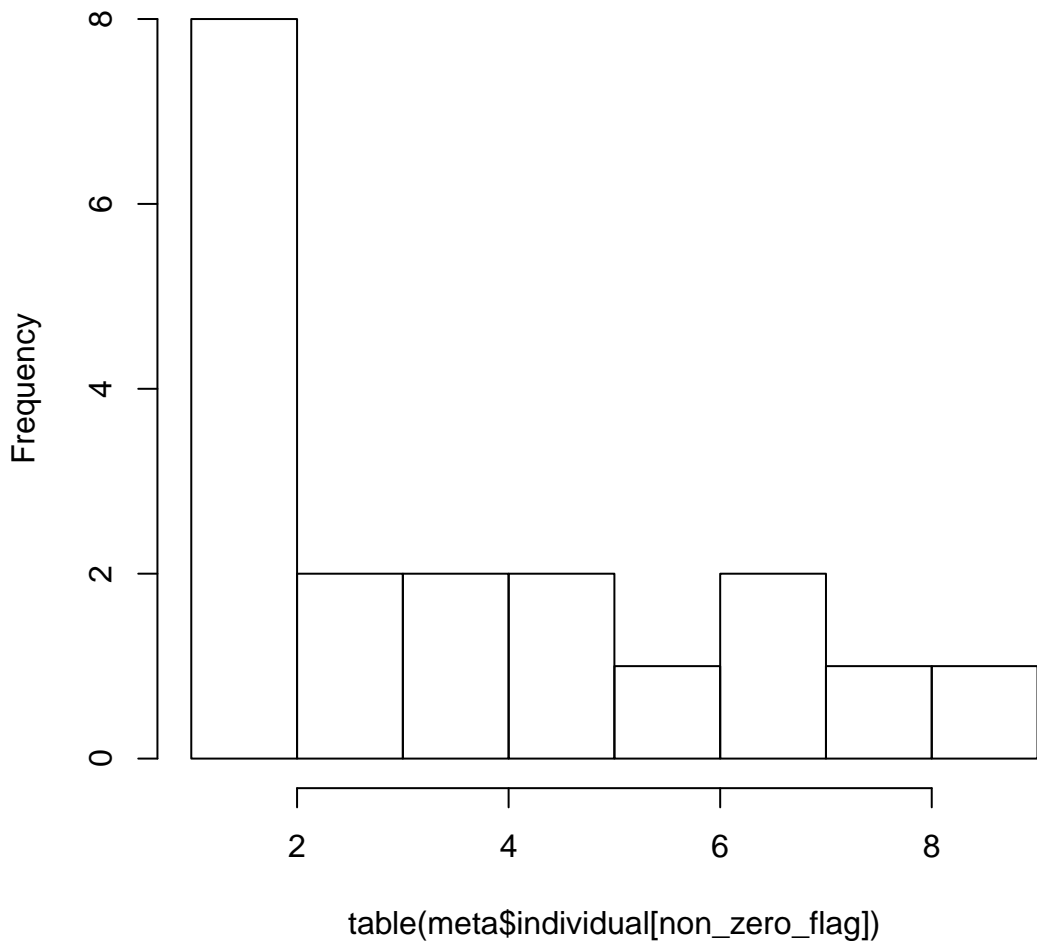
KSless nonsig: individual expression cell count of gene#9



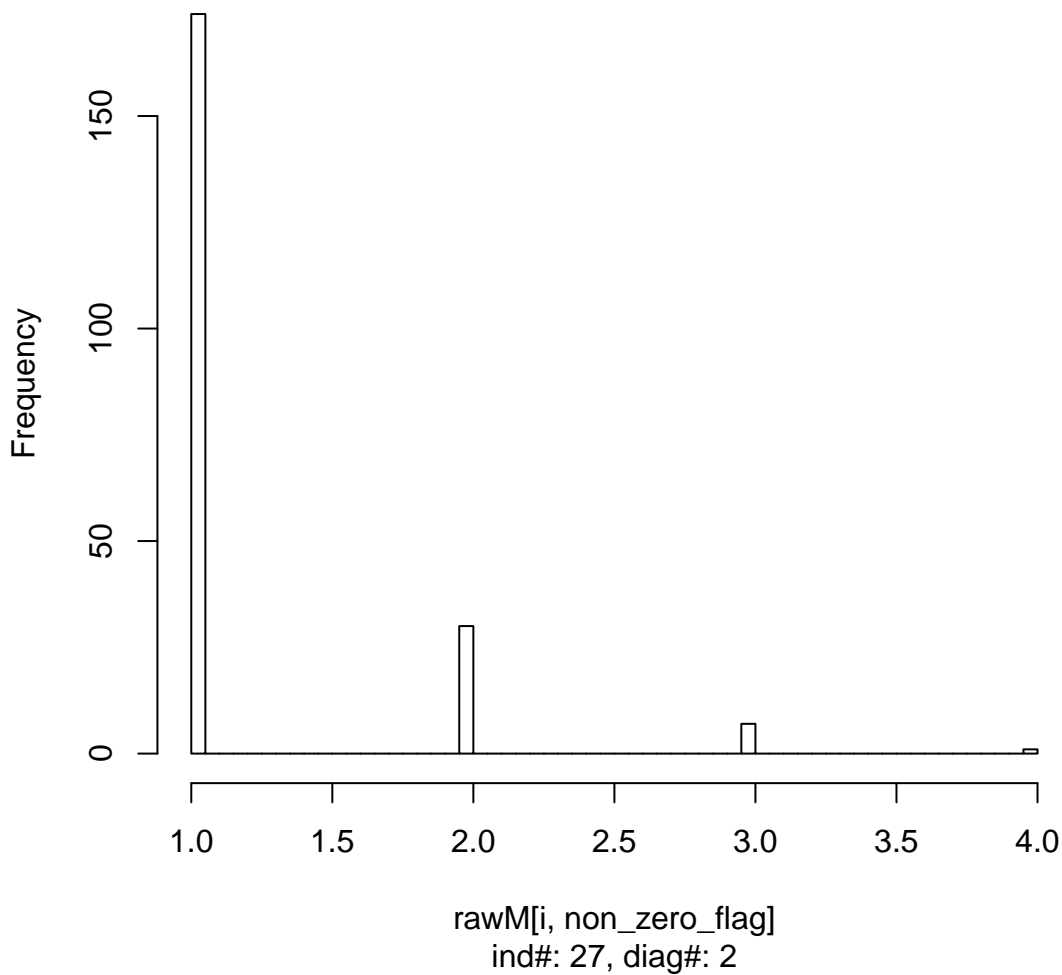
S nonsig: log expression of gene#11, pval ob=0.1584, non-zero n



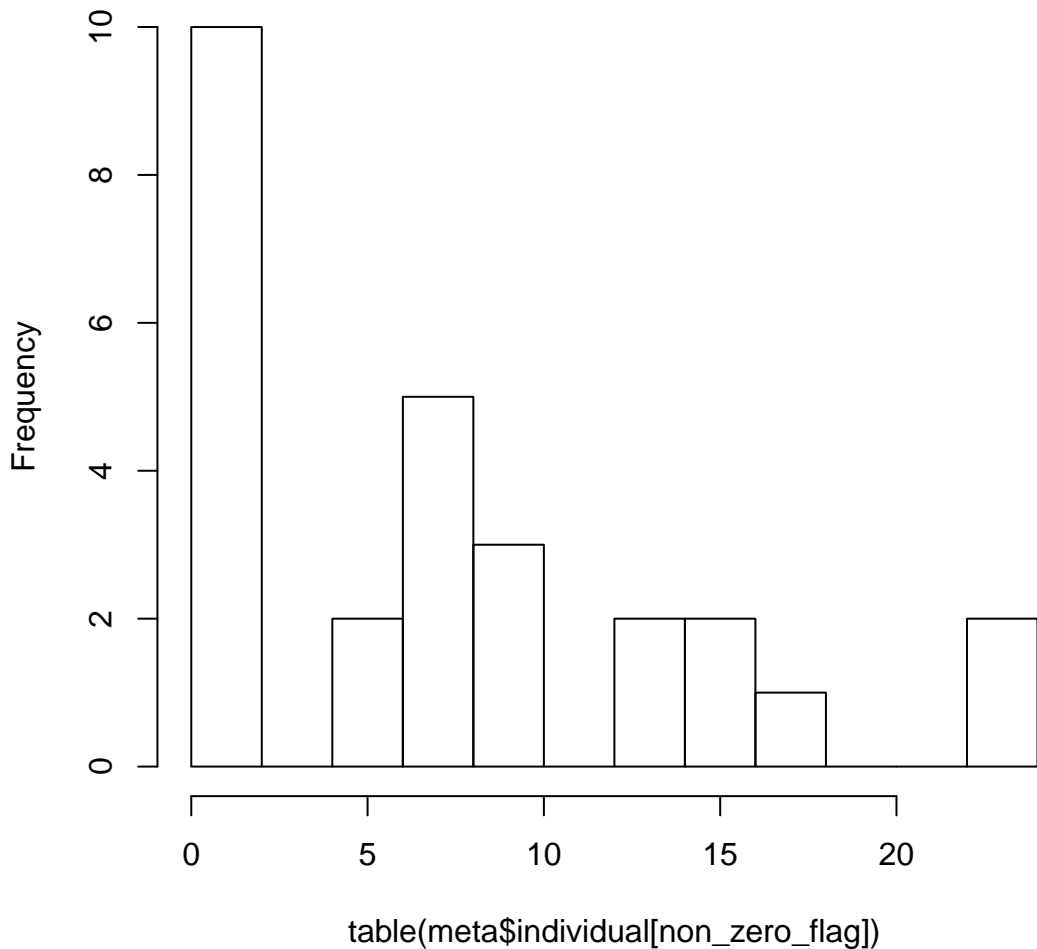
KSless nonsig: individual expression cell count of gene#11



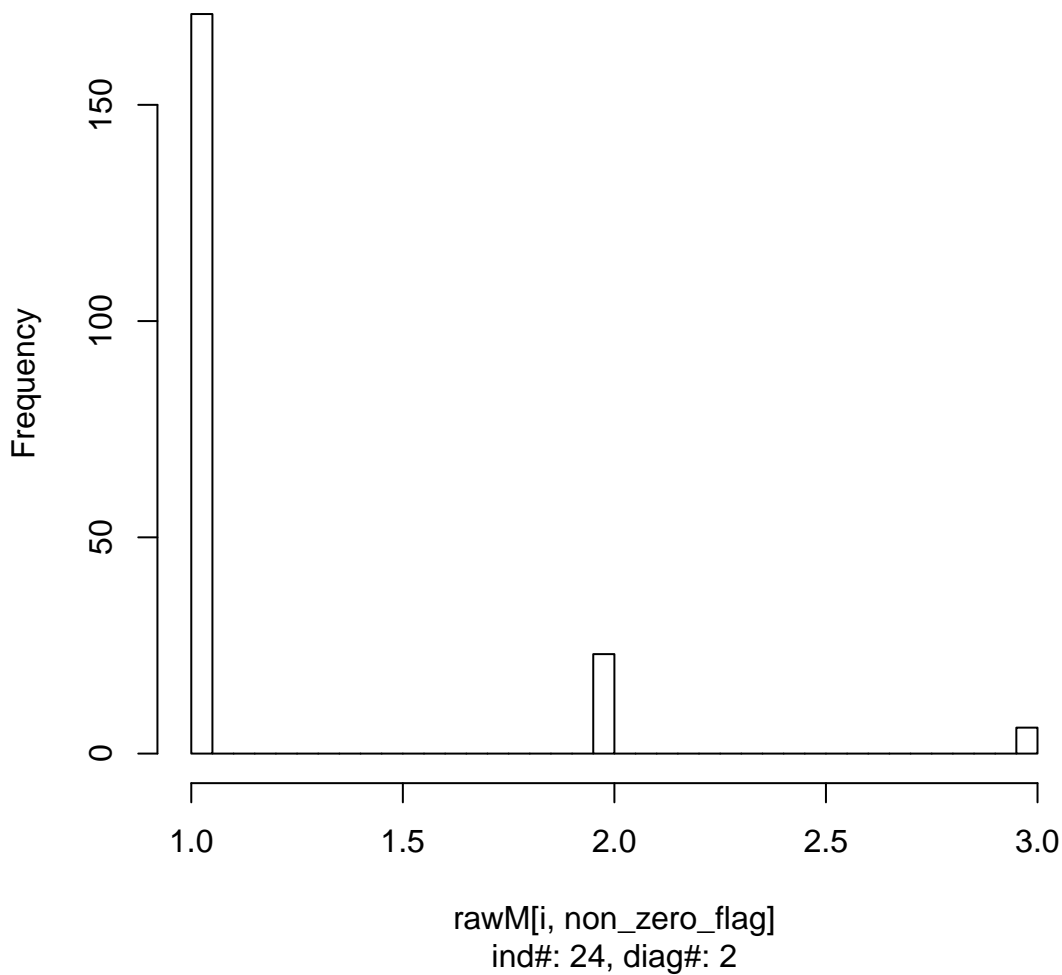
nonsig: log expression of gene#13, pval ob=0.6187, non-zero nu



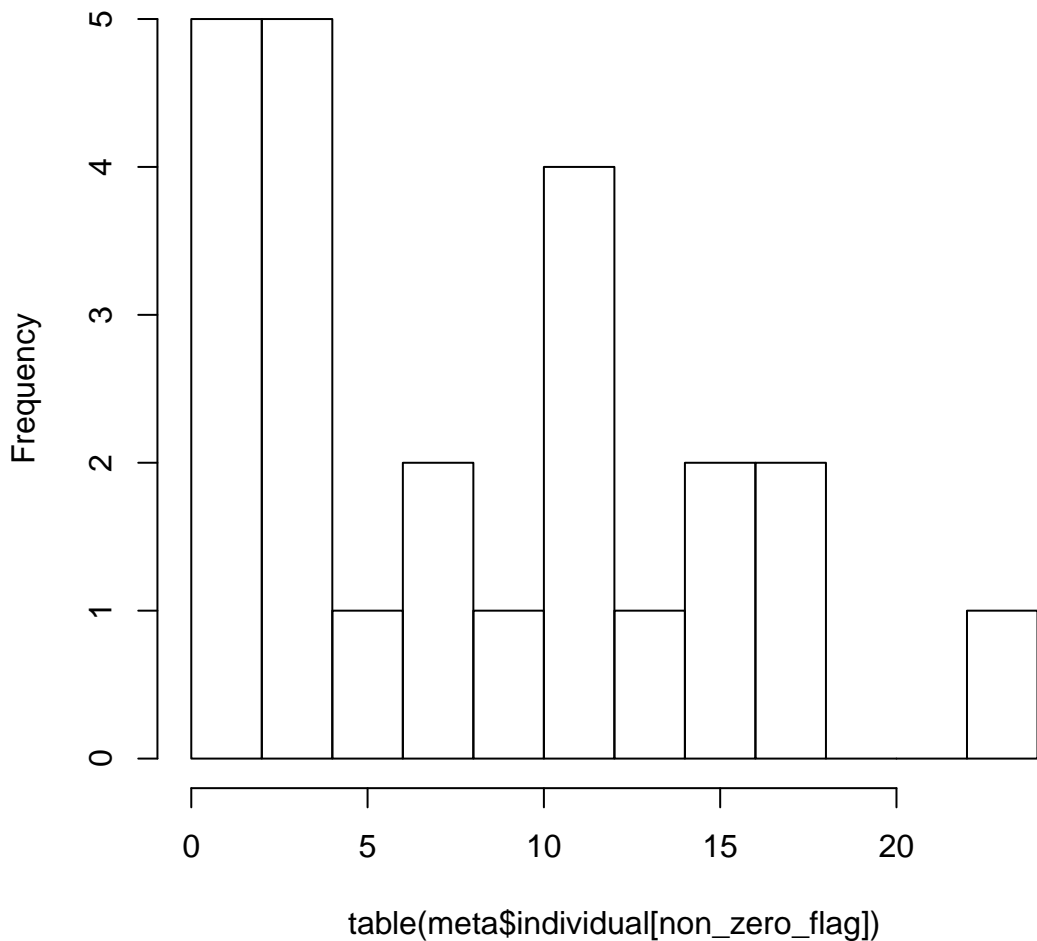
KSless nonsig: individual expression cell count of gene#13



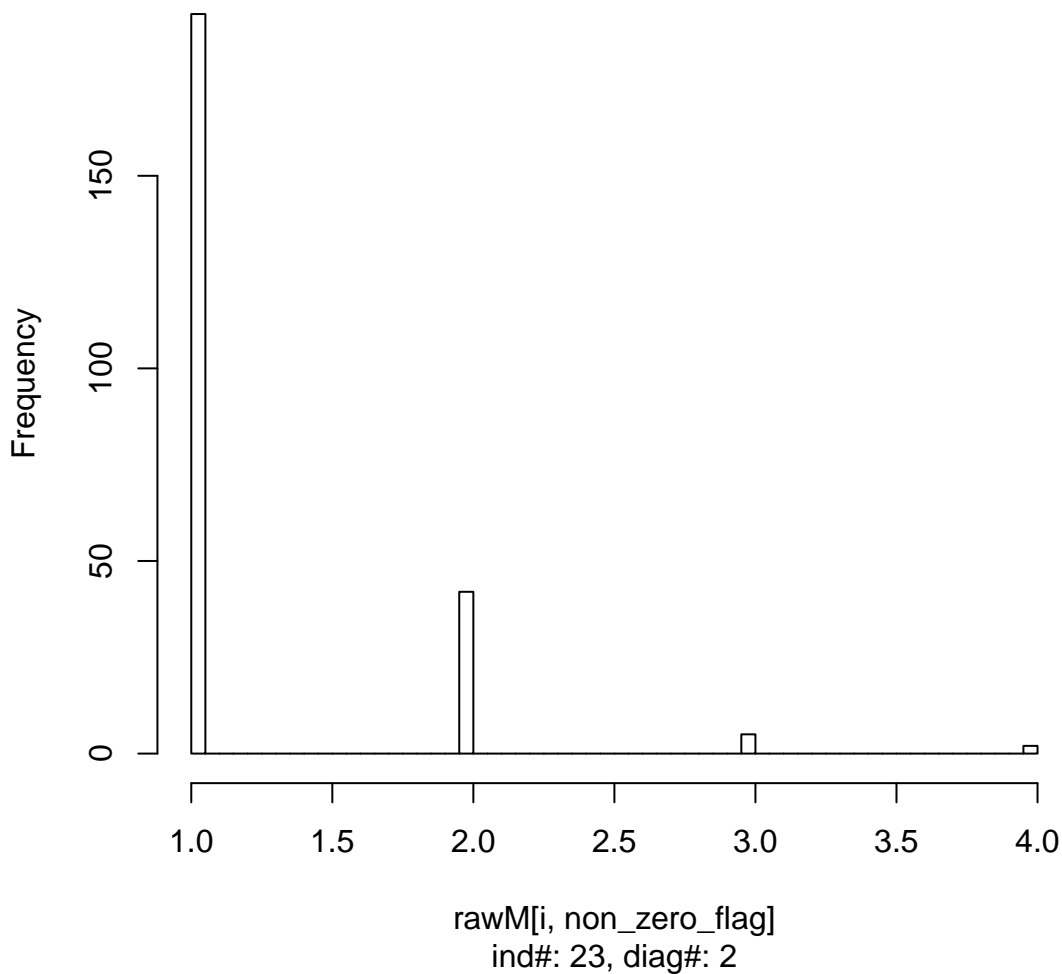
nonsig: log expression of gene#18, pval ob=0.8592, non-zero nu



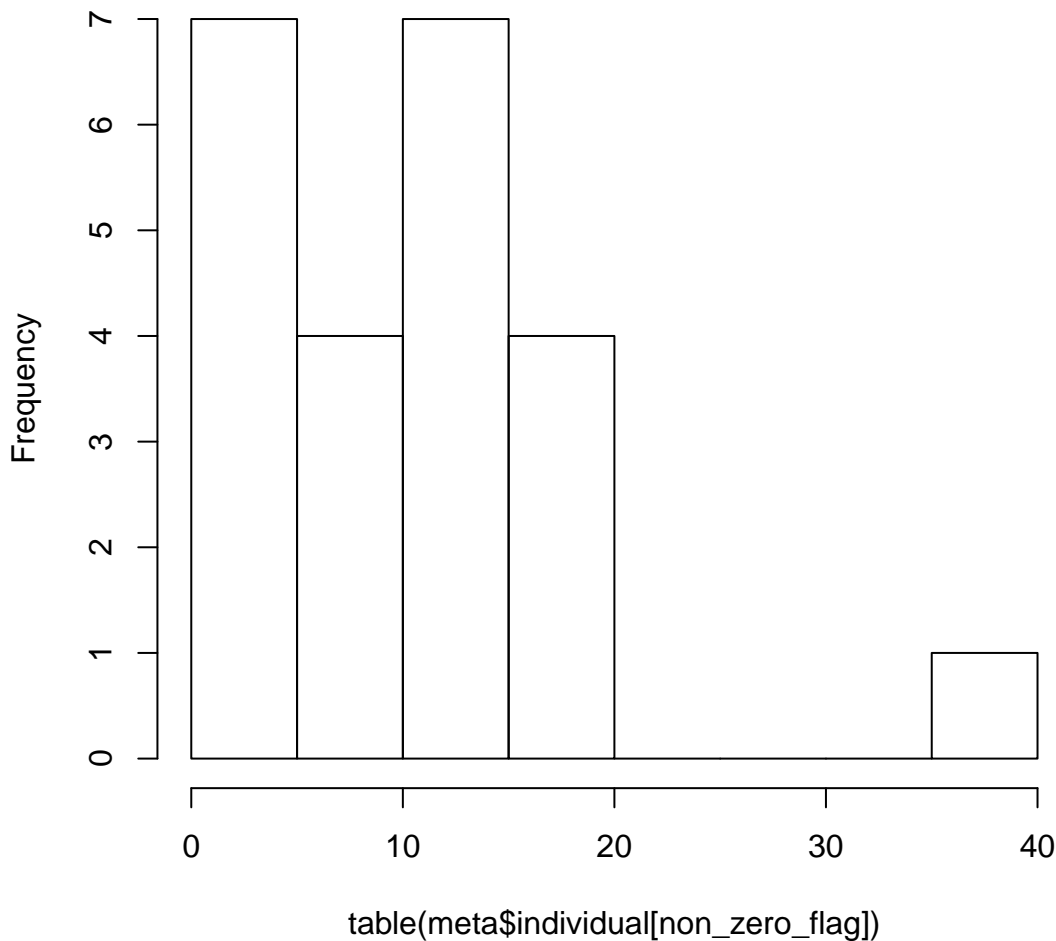
KSless nonsig: individual expression cell count of gene#18



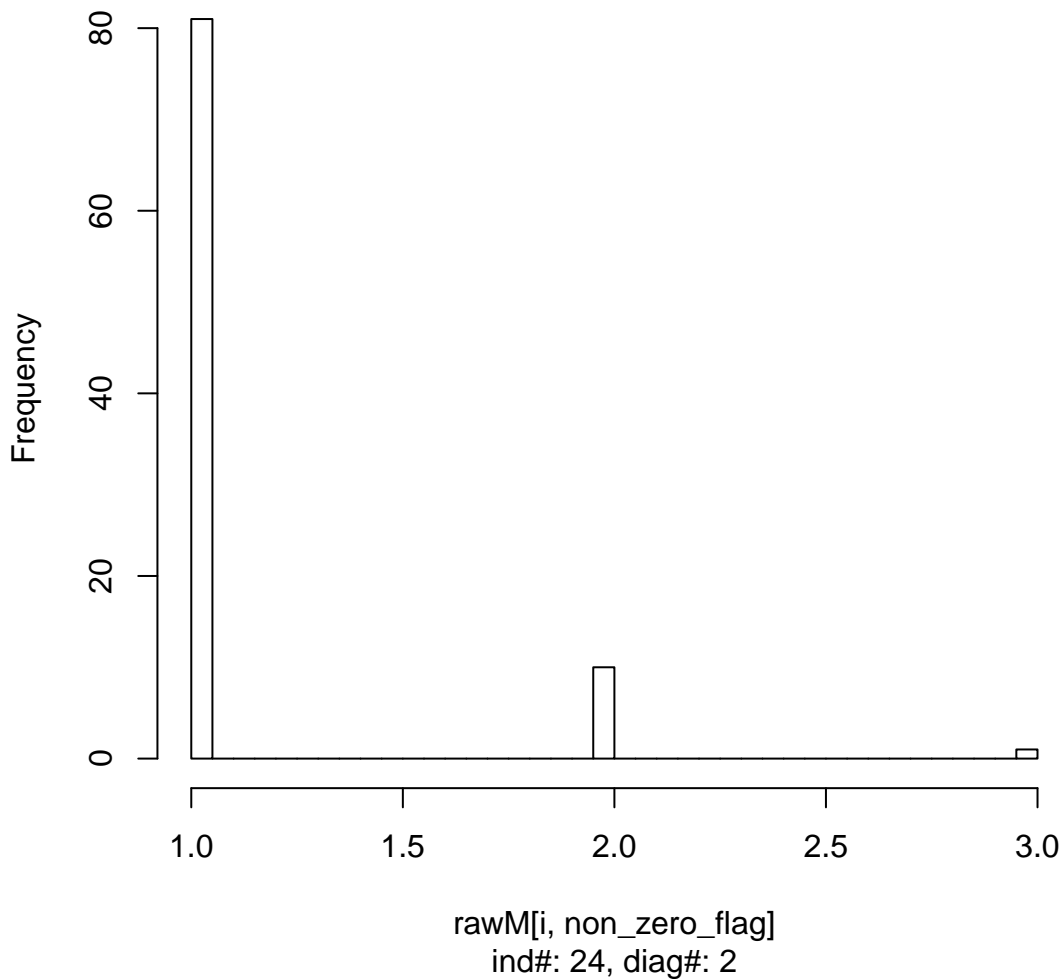
nsig: log expression of gene#28, pval ob=0.8834, non-zero nu



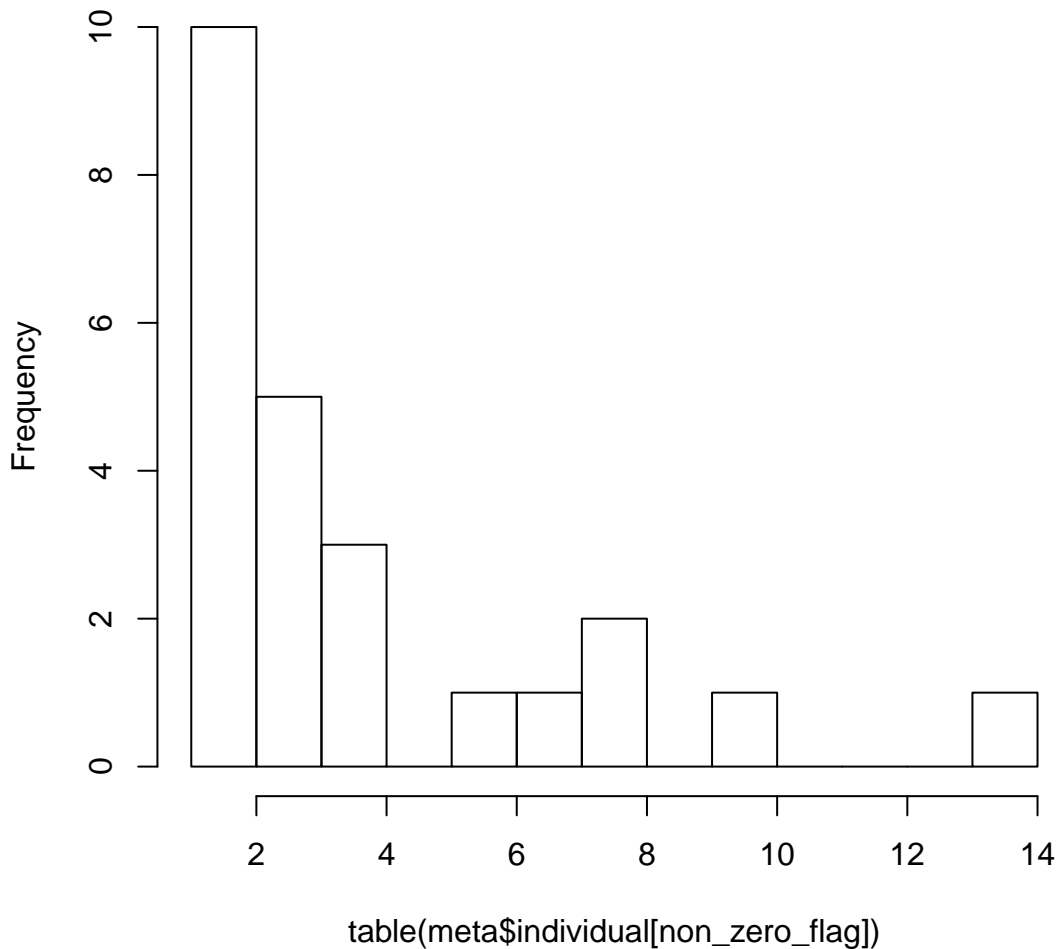
KSless nonsig: individual expression cell count of gene#28



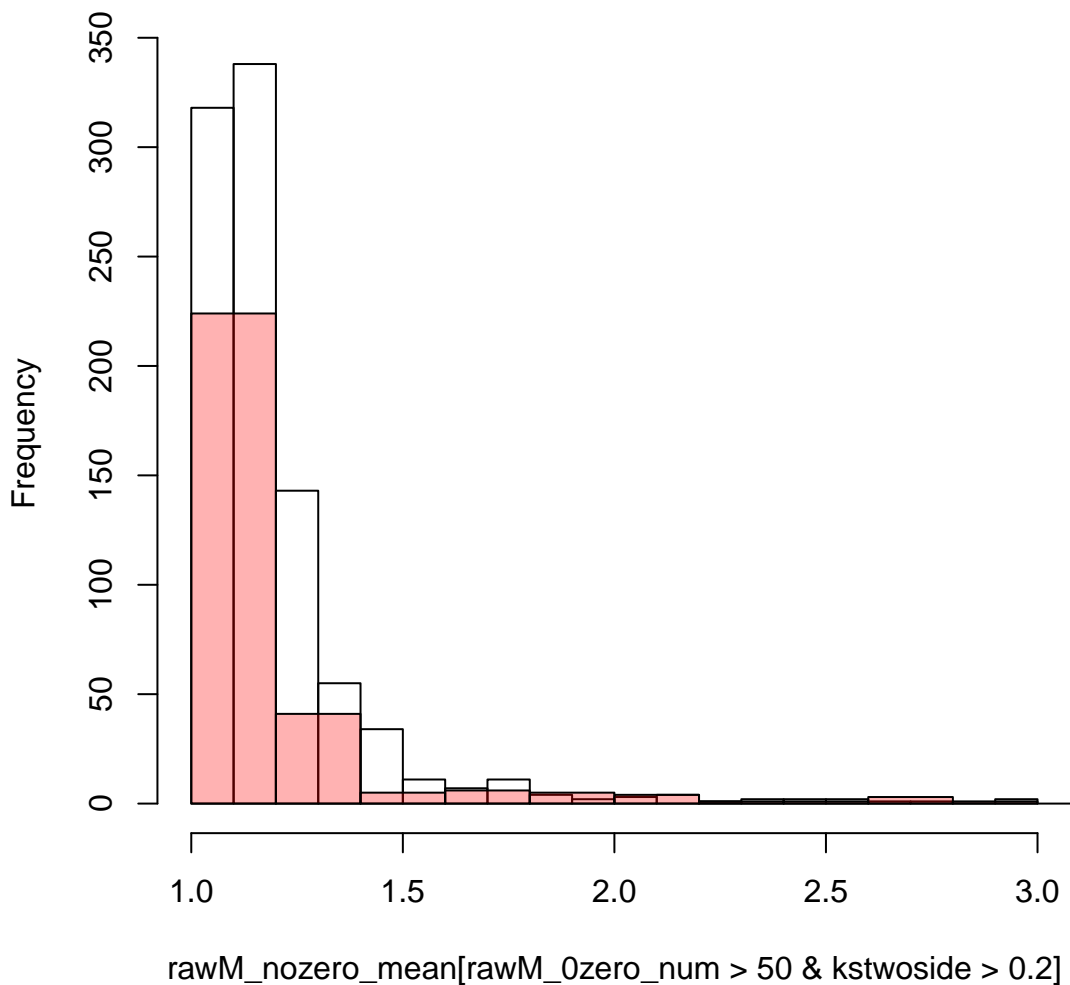
S nonsig: log expression of gene#30, pval ob=0.2037, non-zero n



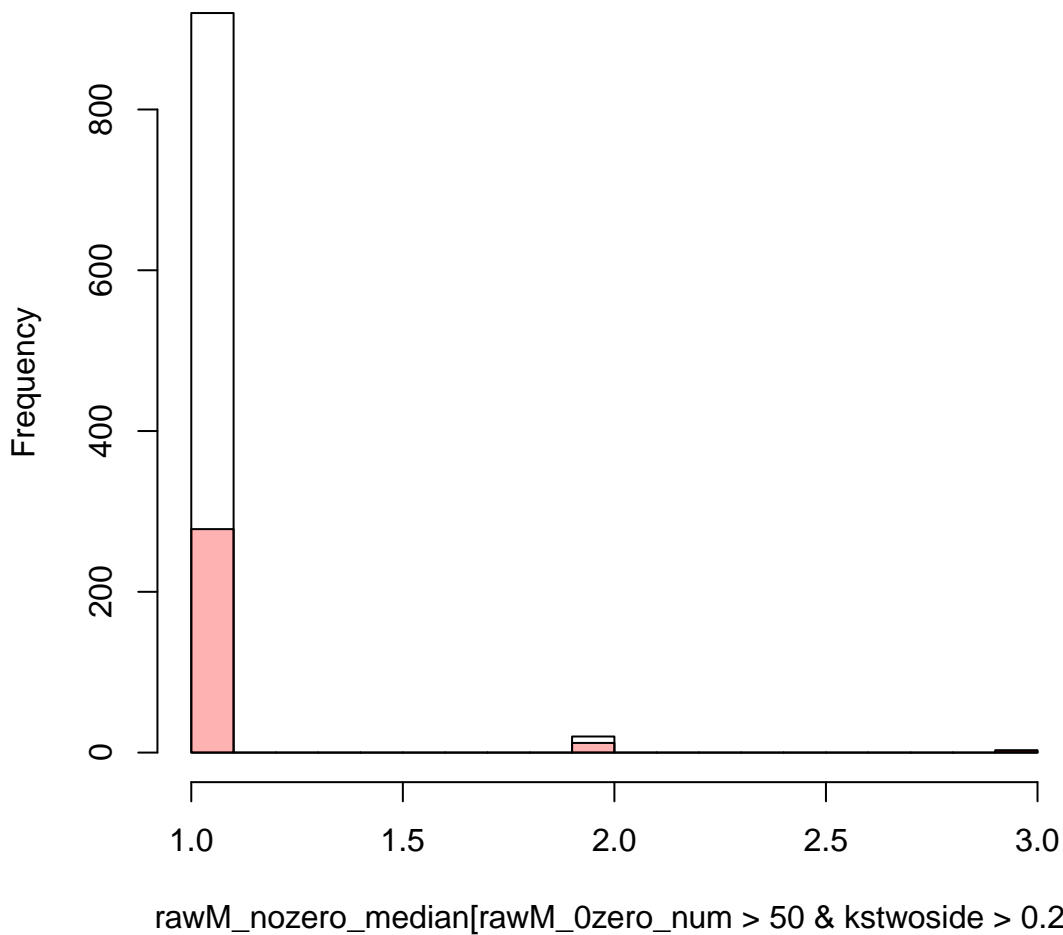
KSless nonsig: individual expression cell count of gene#30



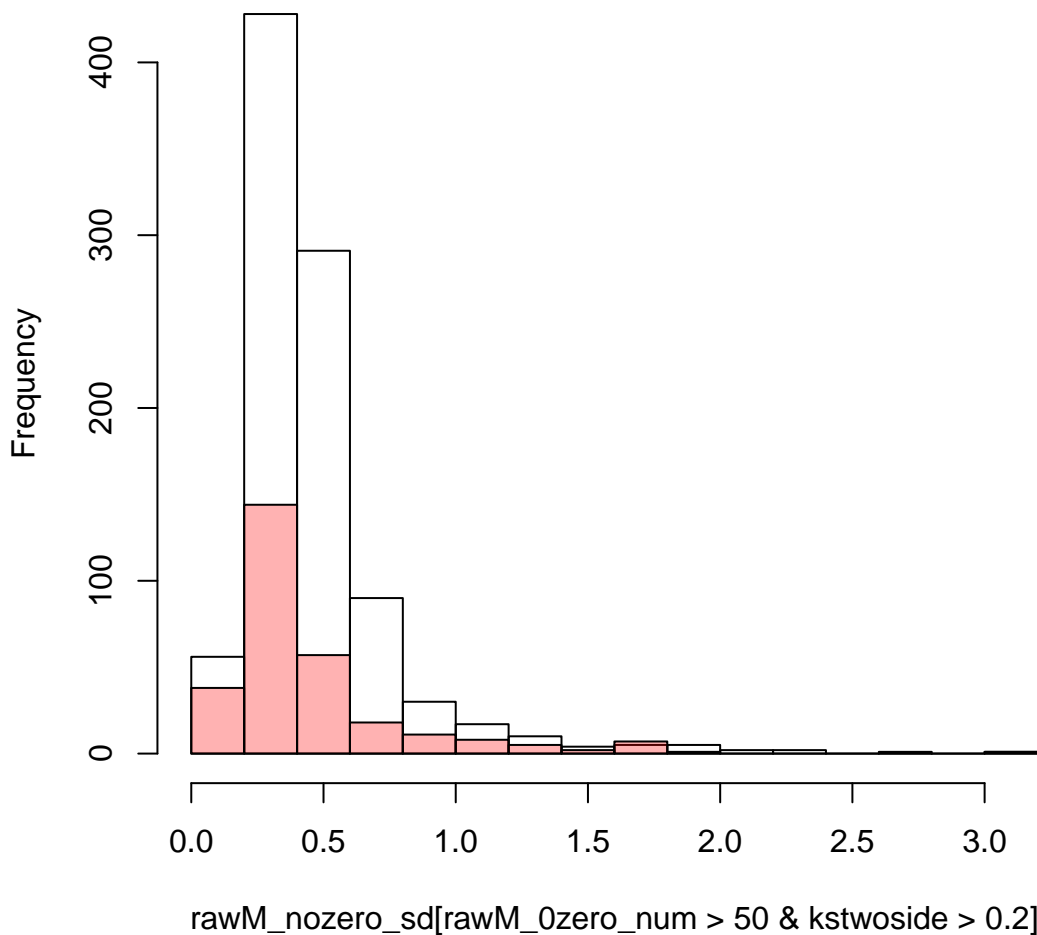
Histogram of rawM_nozero_mean[rawM_0zero_num > 50 & kstwsid



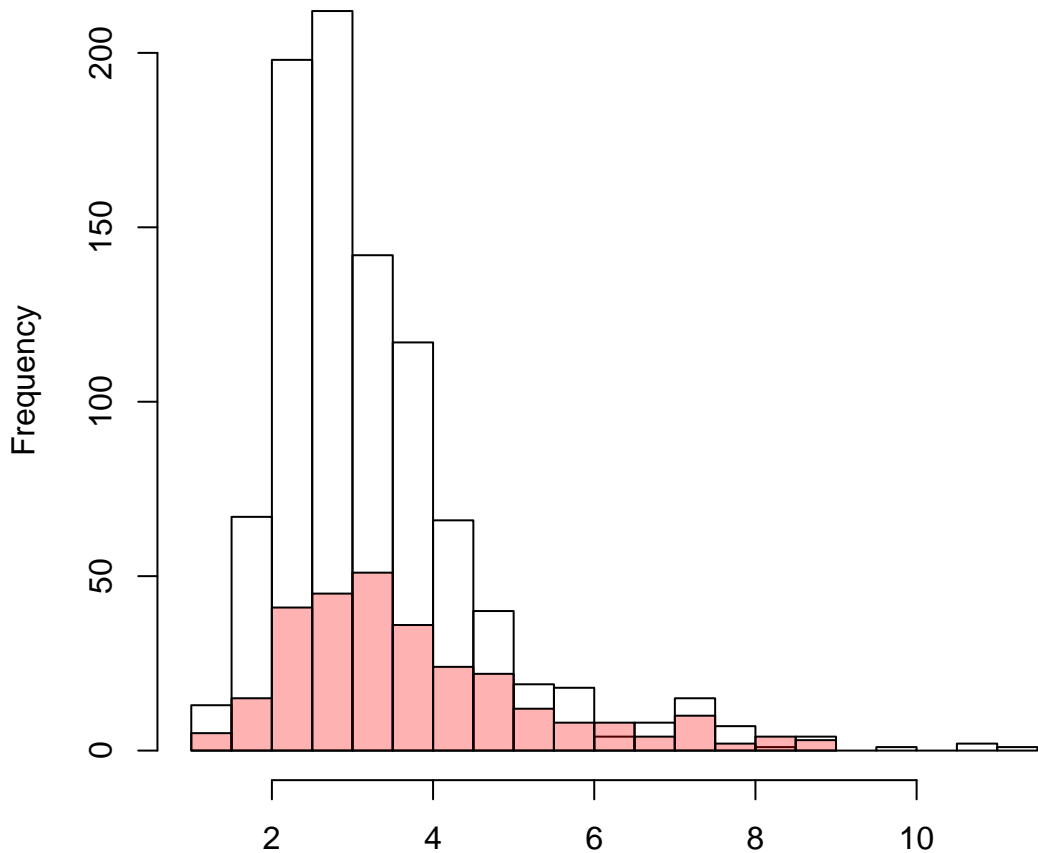
ogram of rawM_nozero_median[rawM_0zero_num > 50 & kstwosi



histogram of rawM_nozero_sd[rawM_0zero_num > 50 & kstwoside

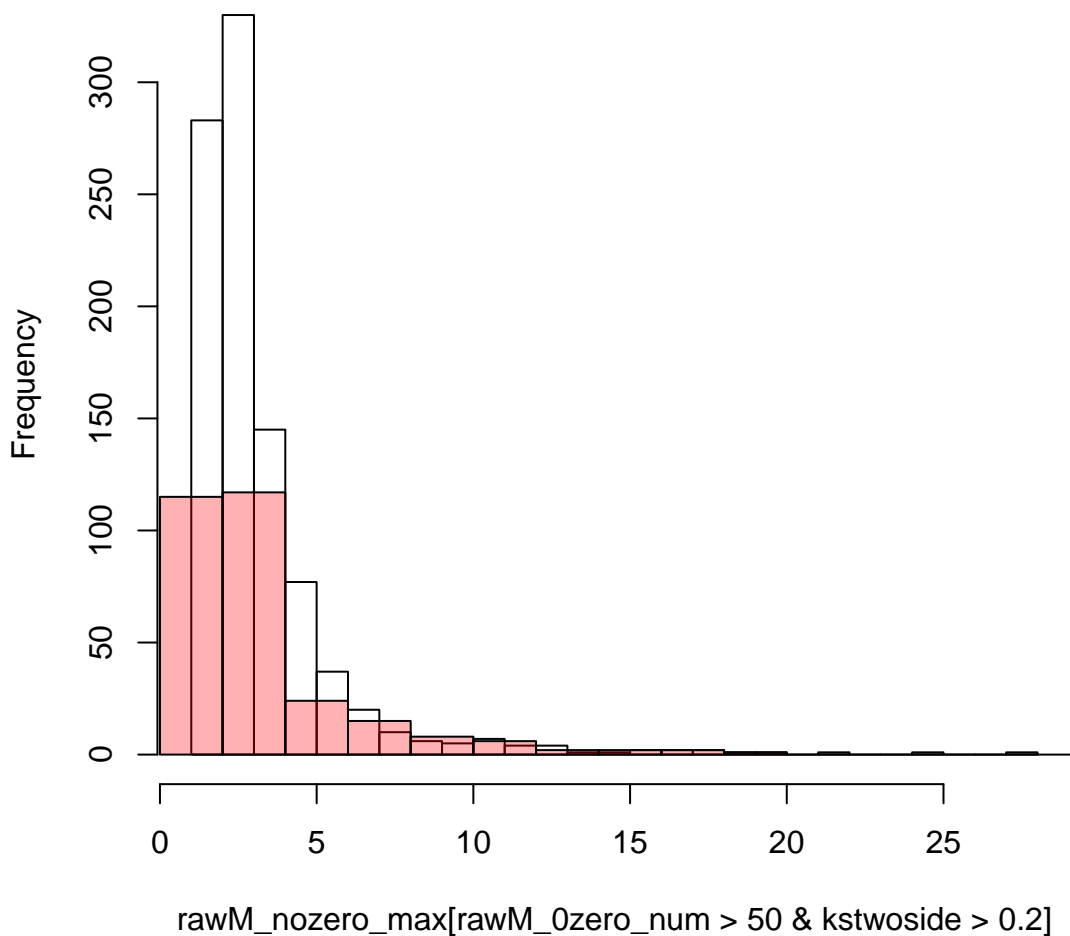


gram of rawM_nozero_skewness[rawM_0zero_num > 50 & kstws

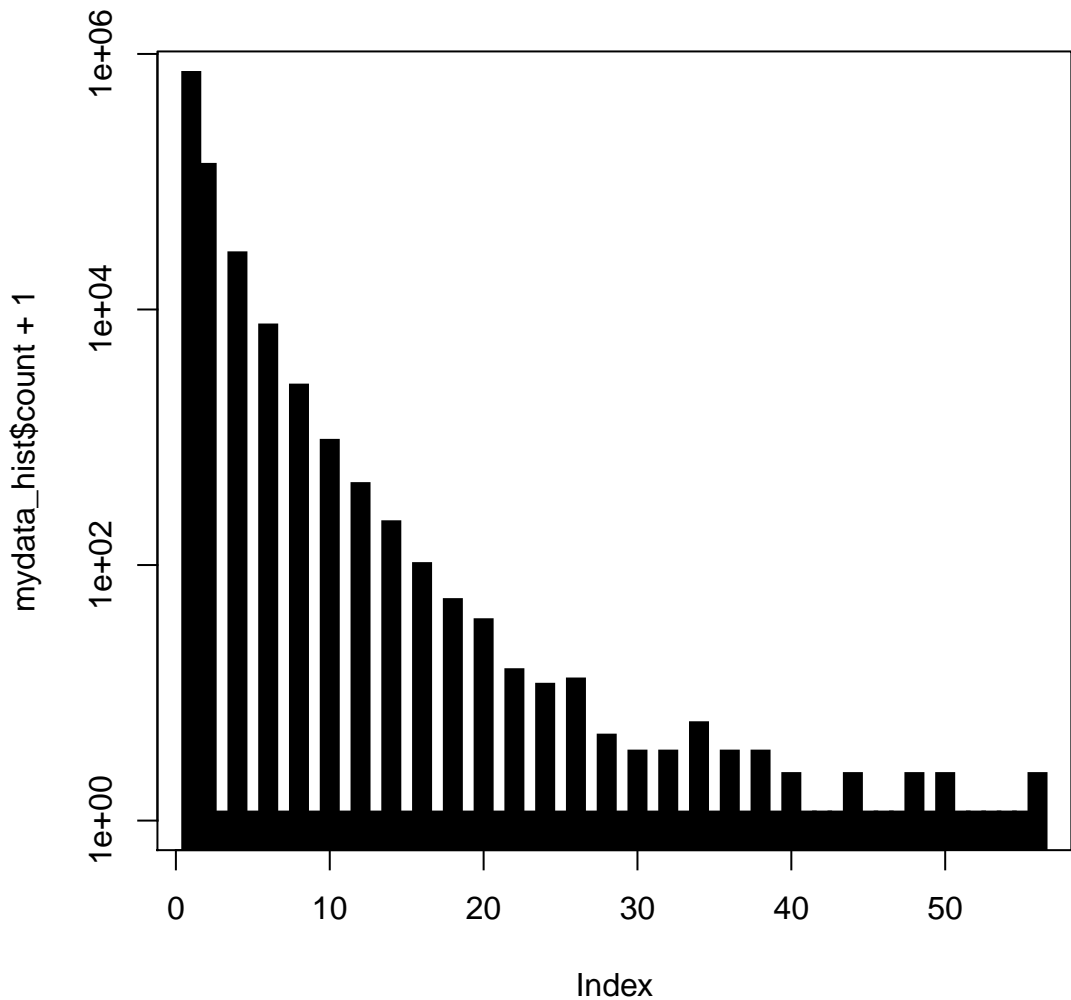


rawM_nozero_skewness[rawM_0zero_num > 50 & kstwside > 0.2]

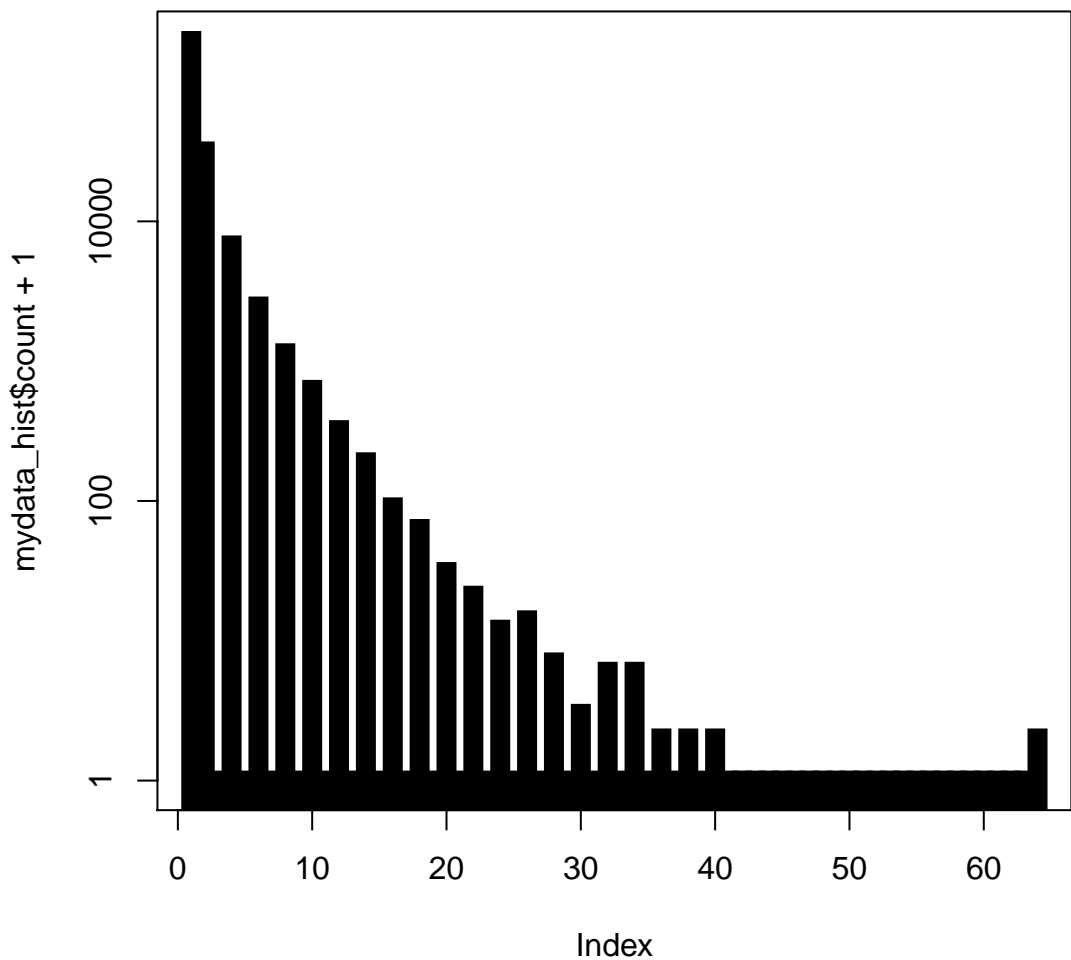
Histogram of rawM_nozero_max[rawM_0zero_num > 50 & kstwside



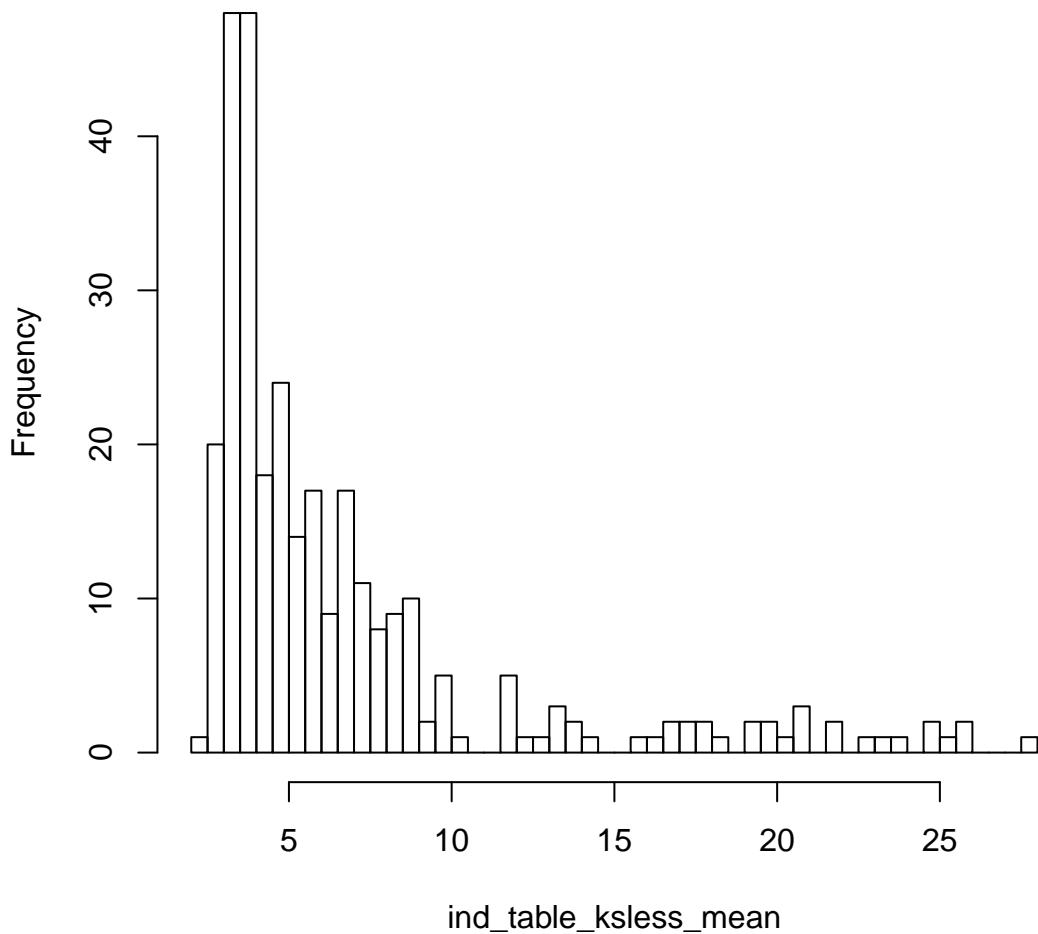
genes $\log(\text{expression} + 1)$ with least 50 cell expression and kstwosi



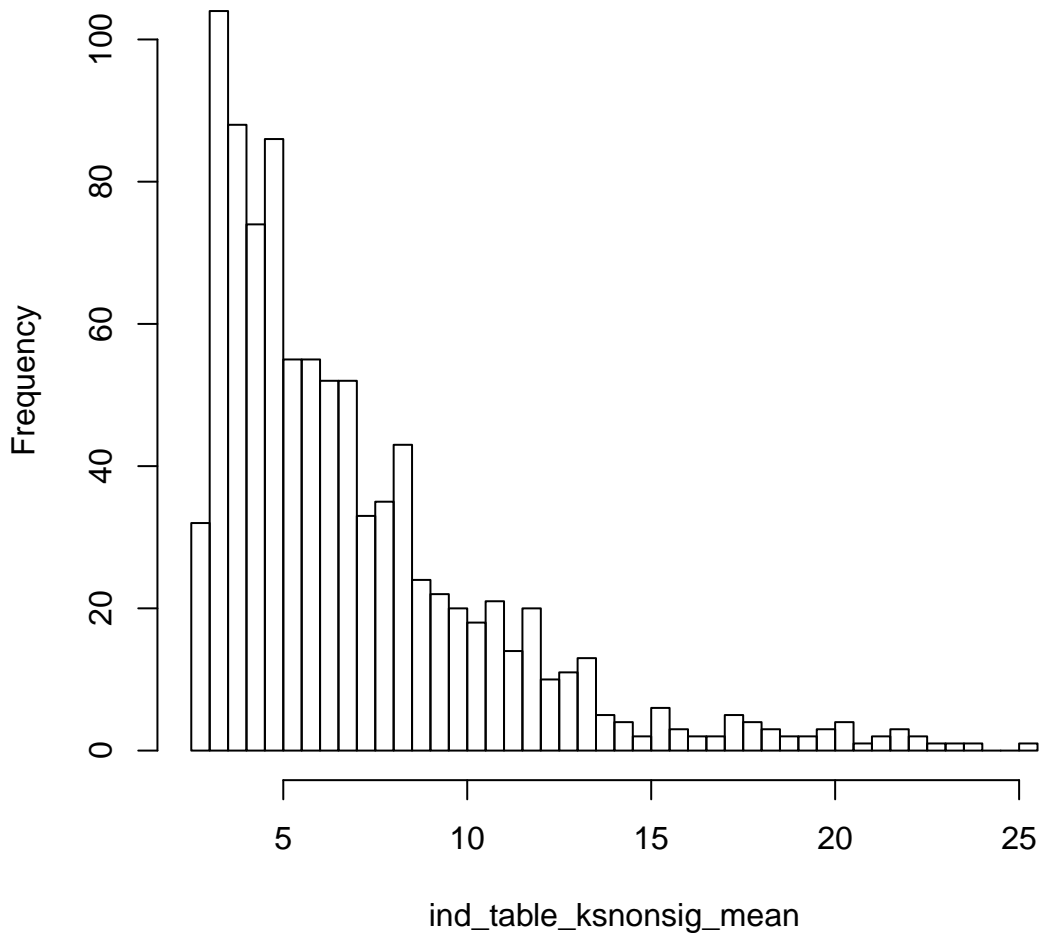
genes $\log(\text{expression} + 1)$ with least 50 cell expression and kstwo



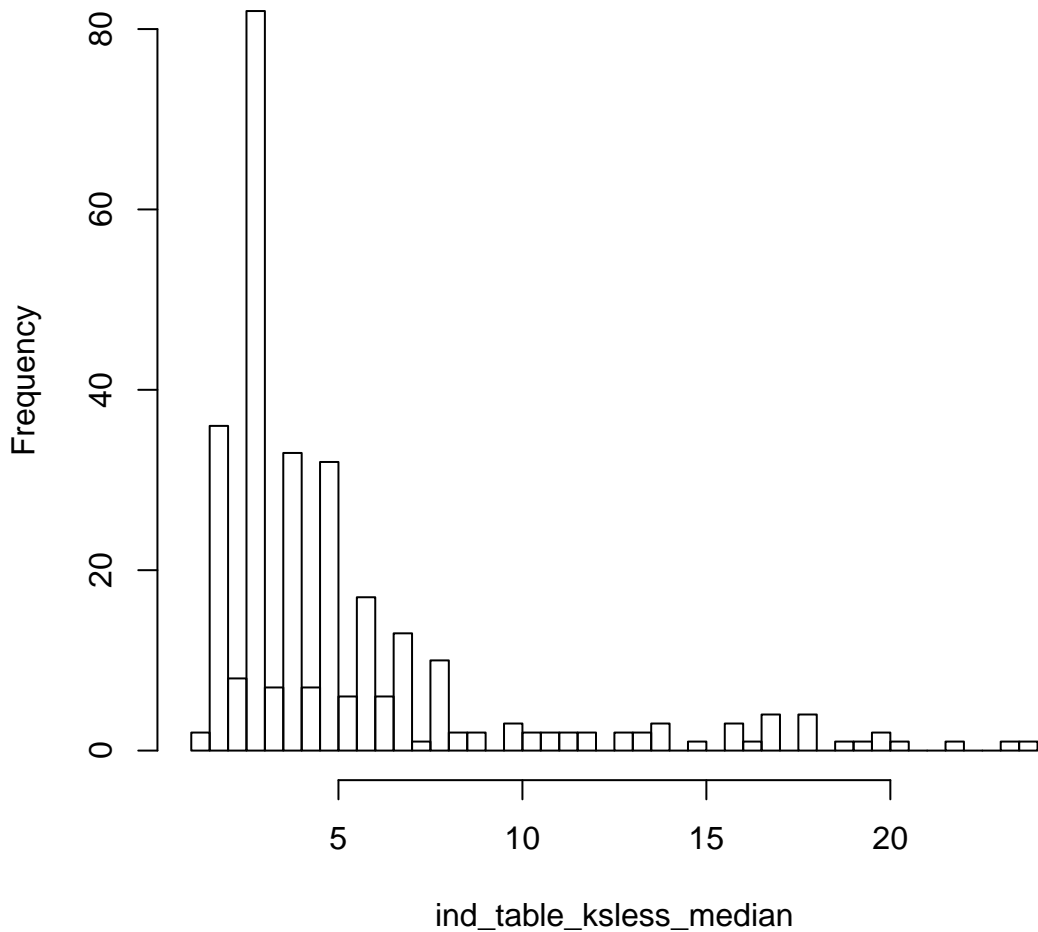
Histogram of ind_table_ksless_mean



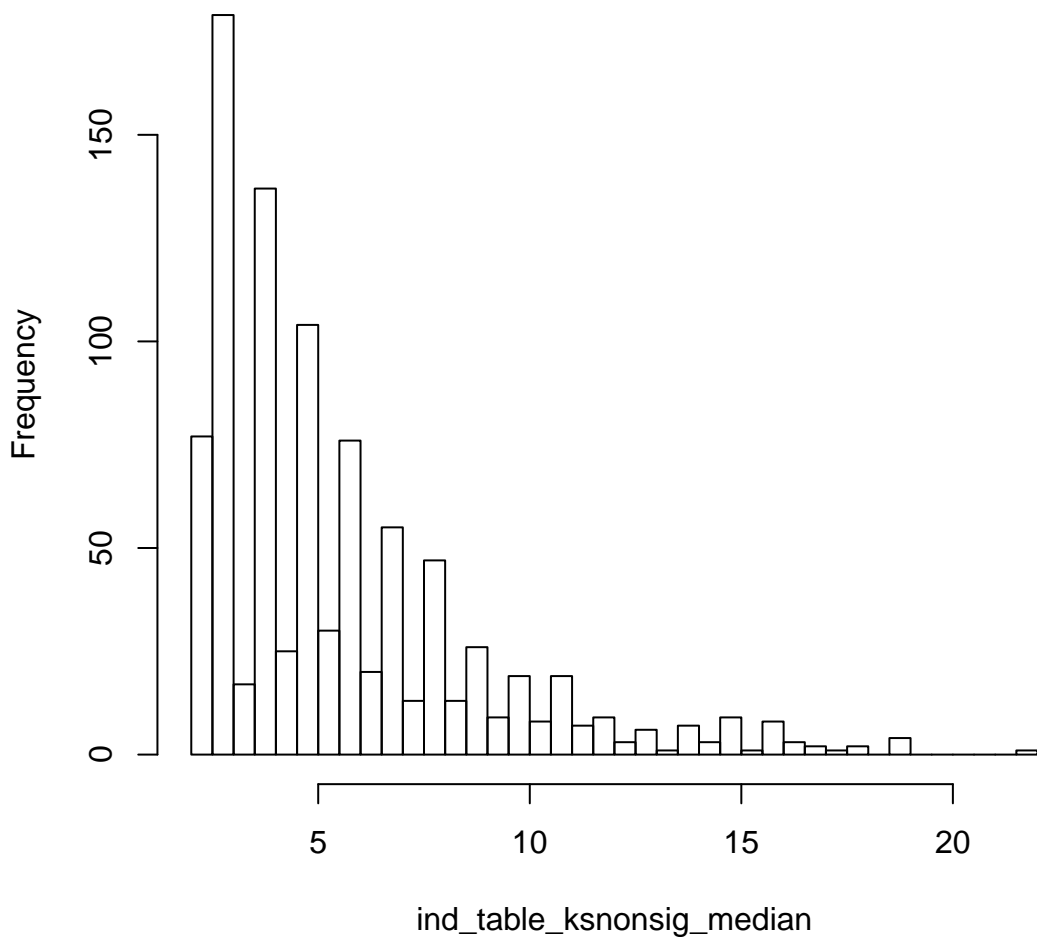
Histogram of ind_table_ksnonsig_mean



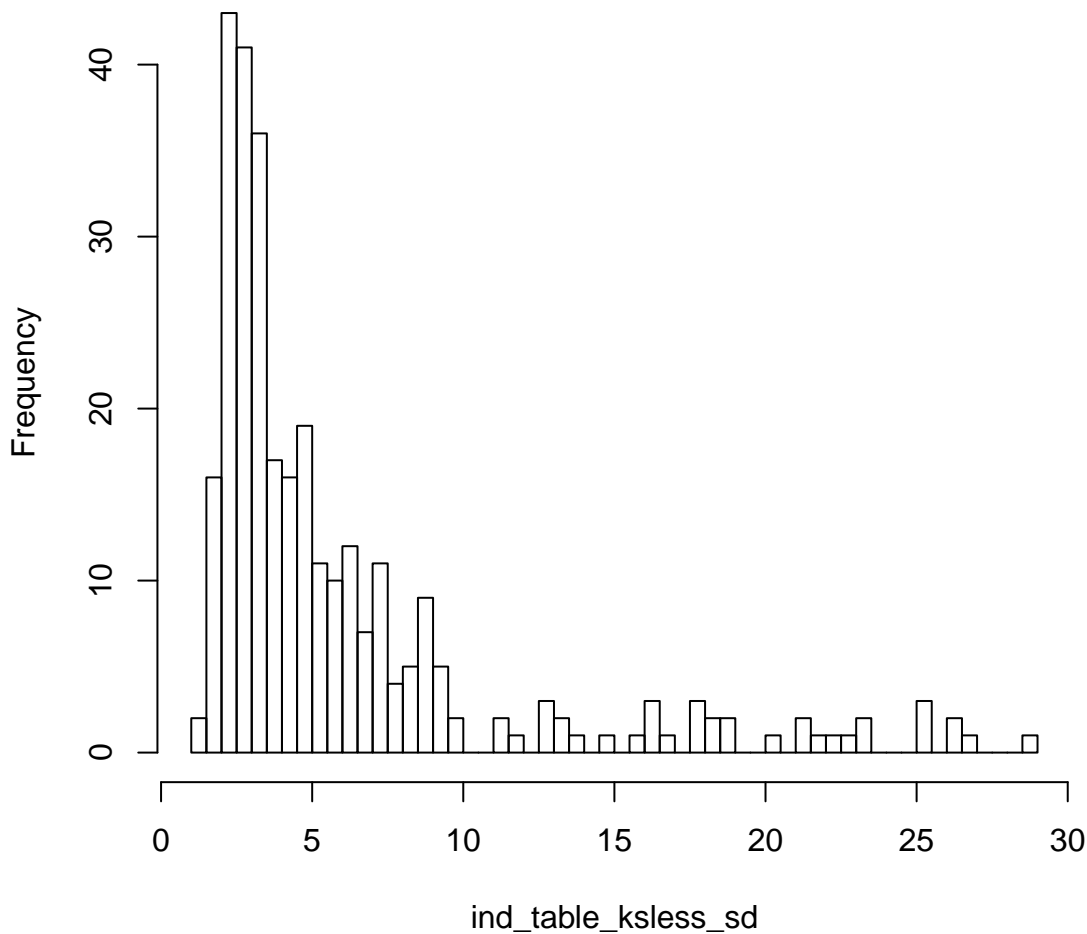
Histogram of ind_table_ksless_median



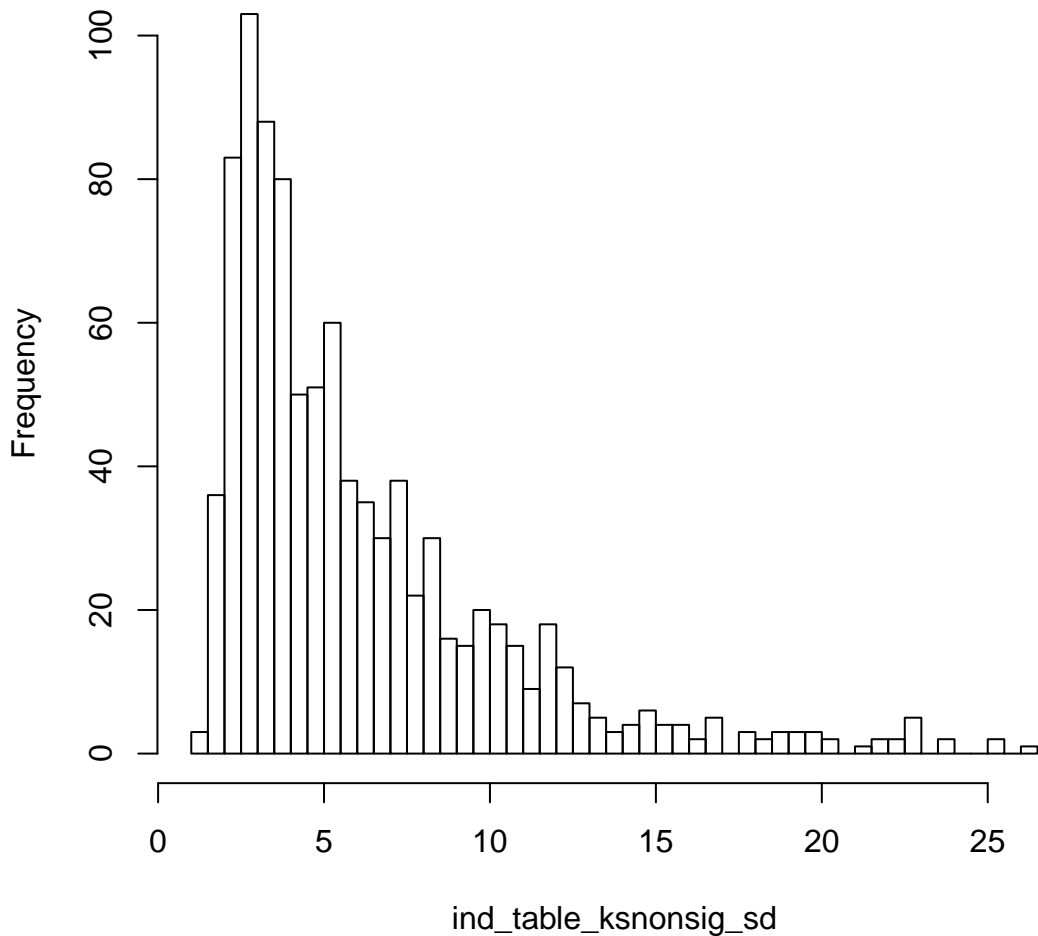
Histogram of ind_table_ksnonsig_median



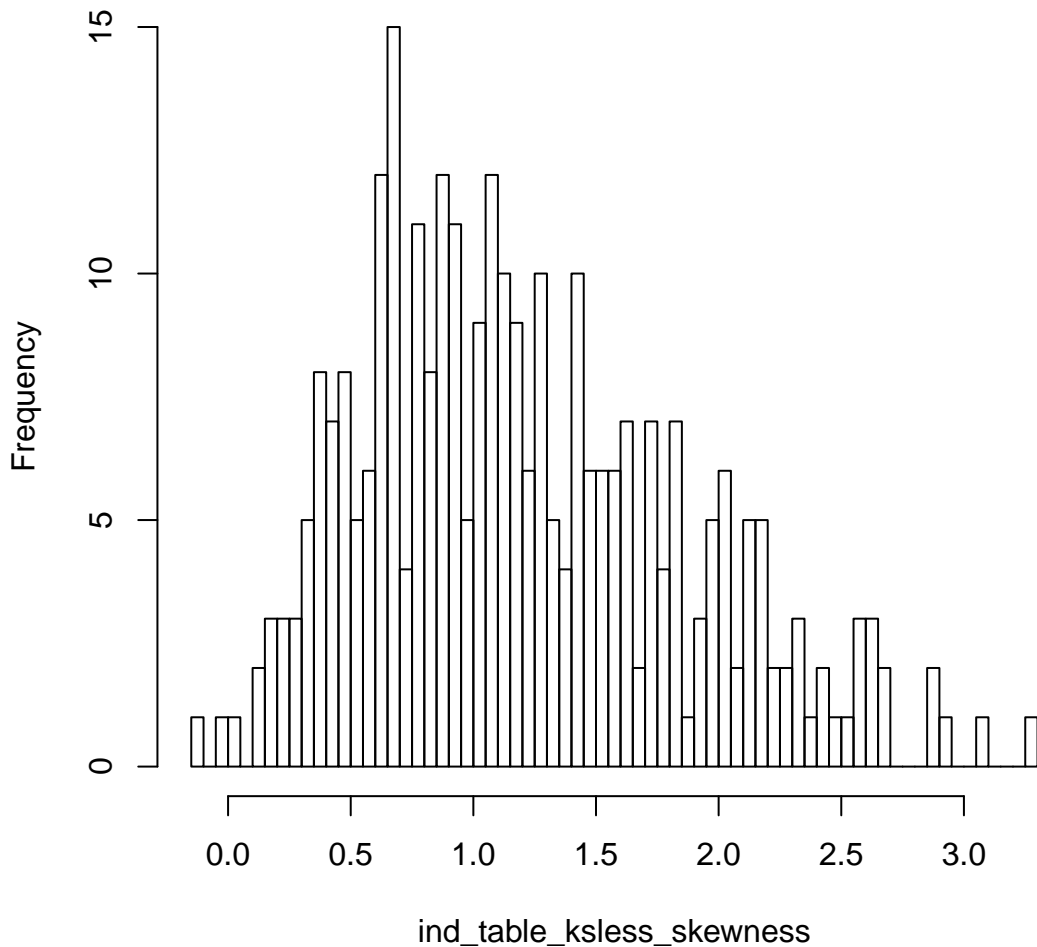
Histogram of ind_table_ksless_sd



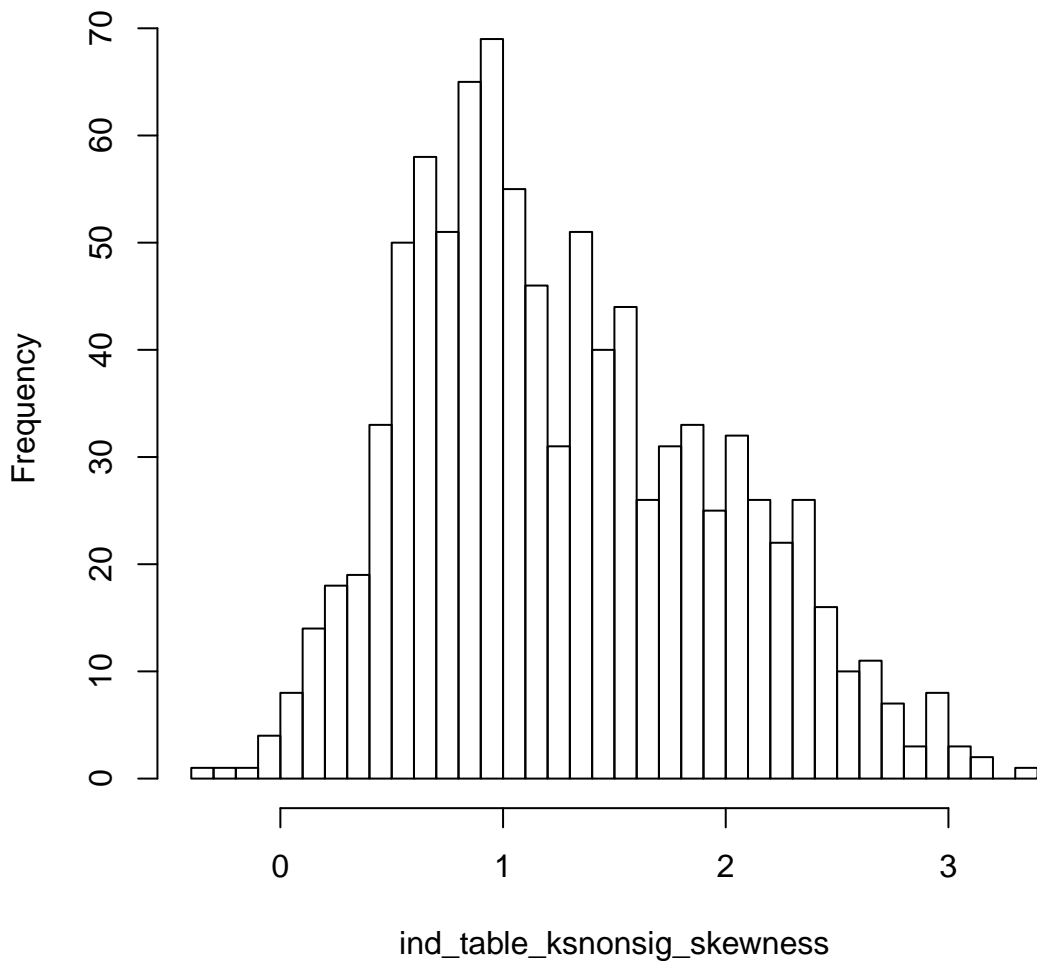
Histogram of ind_table_ksnonsig_sd



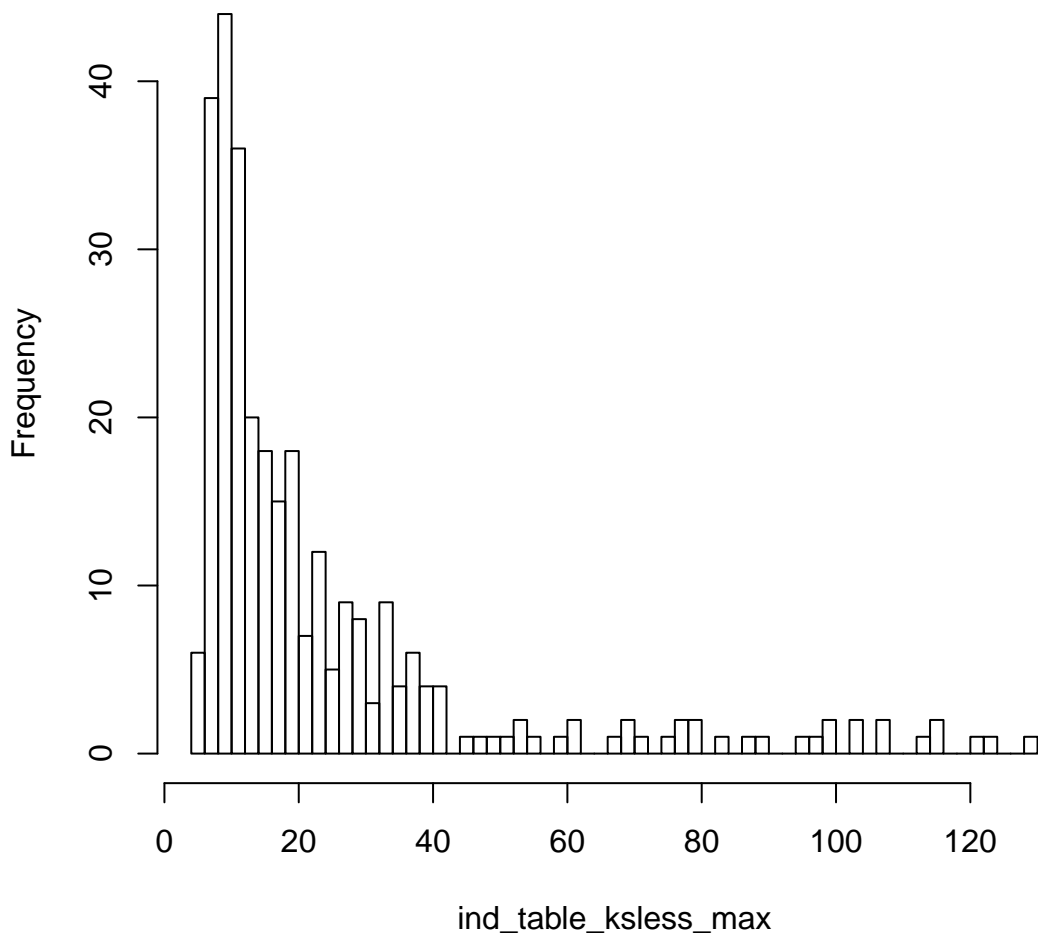
Histogram of ind_table_ksless_skewness



Histogram of ind_table_ksnonsig_skewness



Histogram of ind_table_ksless_max



Histogram of ind_table_ksnonsig_max

