library(RColorBrewer)

#calculate z-score

data.z<-apply(data,1,scale)

#transfer rawname from data to data.z

colnames(data)

rownames(data.z)<-colnames(data)

rownames(data.z)

#create heatmap

heatmap.2(as.matrix(data), Rowv = TRUE, distfun = dist, hclustfun = hclust, col=rev(cm.colors(75)), trace="none", margin=c(8,6))

#version information

R version 3.5.0 (2018-04-23)

Platform: i386-w64-mingw32/i386 (32-bit)

Running under: Windows 7 (build 7601) Service Pack 1

Matrix products: default