PEC1 ADO

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1. Importación de datos
2. Importación desde GEO

library(GEOquery)

## Loading required package: Biobase

## Loading required package: BiocGenerics

## Loading required package: parallel

##   
## Attaching package: 'BiocGenerics'

## The following objects are masked from 'package:parallel':  
##   
## clusterApply, clusterApplyLB, clusterCall, clusterEvalQ,  
## clusterExport, clusterMap, parApply, parCapply, parLapply,  
## parLapplyLB, parRapply, parSapply, parSapplyLB

## The following objects are masked from 'package:stats':  
##   
## IQR, mad, sd, var, xtabs

## The following objects are masked from 'package:base':  
##   
## anyDuplicated, append, as.data.frame, basename, cbind, colnames,  
## dirname, do.call, duplicated, eval, evalq, Filter, Find, get, grep,  
## grepl, intersect, is.unsorted, lapply, Map, mapply, match, mget,  
## order, paste, pmax, pmax.int, pmin, pmin.int, Position, rank,  
## rbind, Reduce, rownames, sapply, setdiff, sort, table, tapply,  
## union, unique, unsplit, which, which.max, which.min

## Welcome to Bioconductor  
##   
## Vignettes contain introductory material; view with  
## 'browseVignettes()'. To cite Bioconductor, see  
## 'citation("Biobase")', and for packages 'citation("pkgname")'.

## Setting options('download.file.method.GEOquery'='auto')

## Setting options('GEOquery.inmemory.gpl'=FALSE)

gset <- getGEO("GSE35426", GSEMatrix =TRUE, getGPL=FALSE)

## Found 1 file(s)

## GSE35426\_series\_matrix.txt.gz

## Parsed with column specification:  
## cols(  
## .default = col\_double(),  
## ID\_REF = col\_character()  
## )

## See spec(...) for full column specifications.

if (length(gset) > 1) idx <- grep("GPL570", attr(gset, "names")) else idx <- 1  
gset <- gset[[idx]]

dev.new(width=4+dim(gset)[[2]]/5, height=6)  
par(mar=c(2+round(max(nchar(sampleNames(gset)))/2),4,2,1))  
title <- paste ("GSE35426", '/', annotation(gset), " selected samples", sep ='')  
boxplot(exprs(gset), boxwex=0.7, notch=T, main=title, outline=FALSE, las=2)

1. Control de calidad de datos normalizados

Se realizó análisis con arrayQualityMetrics, se incluyen los resultados como adjuntos

Con el análisis de componentes prioncipales, se encuentra que el primer componente aporta el 51% de la variabilidad de las muestras y con la evaluación del gráfico se muestra que esta variabilidad está dada por la variedad histológica del linfoma, ya que todos los pacientes con linfoma de zona marginal esplénico se encuentran a la izquierda de la gráfica.

1. Normalización

De aquí en adelante se trabaja con la base “gset” importada directamente de la página GEO

class(gset)

## [1] "ExpressionSet"  
## attr(,"package")  
## [1] "Biobase"

Al aplicar este comando se obtiene que contamos con un objeto “ExpressionSet”, por lo que ya se encuentran normalizados.

1. Identificación de genes diferencialmente expresados

Diseño de la matriz

library(limma)

##   
## Attaching package: 'limma'

## The following object is masked from 'package:BiocGenerics':  
##   
## plotMA

designMat<- model.matrix(~0+gset$source\_name\_ch1, pData(gset))  
colnames(designMat) <- c("FL", "MCL", "SMZL")  
print(designMat)

## FL MCL SMZL  
## GSM868089 0 0 1  
## GSM868090 0 0 1  
## GSM868091 0 0 1  
## GSM868092 0 0 1  
## GSM868093 0 0 1  
## GSM868094 0 0 1  
## GSM868095 0 0 1  
## GSM868096 0 0 1  
## GSM868097 0 0 1  
## GSM868098 0 0 1  
## GSM868099 0 0 1  
## GSM868100 0 0 1  
## GSM868101 0 0 1  
## GSM868102 0 0 1  
## GSM868103 1 0 0  
## GSM868104 1 0 0  
## GSM868105 1 0 0  
## GSM868106 1 0 0  
## GSM868107 1 0 0  
## GSM868108 0 1 0  
## GSM868109 0 1 0  
## GSM868110 0 1 0  
## GSM868111 0 1 0  
## GSM868112 0 1 0  
## attr(,"assign")  
## [1] 1 1 1  
## attr(,"contrasts")  
## attr(,"contrasts")$`gset$source\_name\_ch1`  
## [1] "contr.treatment"

Definición de comparación con la matriz de contraste

cont.matrix <- makeContrasts (FLvsMCL = FL-MCL,  
 FLvsSMZL = FL-SMZL,  
 MCLvsSMZL = MCL-SMZL,  
 INT = (FL-MCL) - (FL-SMZL) - (MCL-SMZL),  
 levels=designMat)  
print(cont.matrix)

## Contrasts  
## Levels FLvsMCL FLvsSMZL MCLvsSMZL INT  
## FL 1 1 0 0  
## MCL -1 0 1 -2  
## SMZL 0 -1 -1 2

Modelo de estimación y selección de genes

fit<-lmFit(gset, designMat)  
fit.main<-contrasts.fit(fit, cont.matrix)  
fit.main<-eBayes(fit.main)

## Warning: Zero sample variances detected, have been offset away from zero

class(fit.main)

## [1] "MArrayLM"  
## attr(,"package")  
## [1] "limma"

Obtención de lista de genes diferencialmente expresados

topTab\_FLvsMCL <- topTable (fit.main, number=nrow(fit.main), coef="FLvsMCL", adjust="fdr")   
head(topTab\_FLvsMCL)

## logFC AveExpr t P.Value adj.P.Val B  
## 208711\_s\_at -5.7182975 6.913500 -10.456298 6.665783e-10 1.875483e-05 11.969451  
## 217002\_s\_at 2.7514096 3.074398 10.439723 6.860478e-10 1.875483e-05 11.945891  
## 208712\_at -4.6101324 6.171518 -10.088778 1.271462e-09 1.966294e-05 11.438013  
## 221904\_at -1.7121042 4.355178 -10.019521 1.438532e-09 1.966294e-05 11.335714  
## 233589\_x\_at -0.6766243 3.411674 -9.505188 3.663624e-09 4.006173e-05 10.554066  
## 225061\_at -2.8998641 4.738008 -8.683259 1.747146e-08 1.415671e-04 9.221943

list(topTab\_FLvsMCL)

## [[1]]  
## logFC AveExpr t P.Value  
## 208711\_s\_at -5.718297547 6.913500 -10.456298 6.665783e-10  
## 217002\_s\_at 2.751409561 3.074398 10.439723 6.860478e-10  
## 208712\_at -4.610132407 6.171518 -10.088778 1.271462e-09  
## 221904\_at -1.712104205 4.355178 -10.019521 1.438532e-09  
## 233589\_x\_at -0.676624344 3.411674 -9.505188 3.663624e-09  
## 225061\_at -2.899864149 4.738008 -8.683259 1.747146e-08  
## 223313\_s\_at -2.775340494 3.618714 -8.664476 1.812474e-08  
## 203435\_s\_at 2.783819916 3.515420 8.453977 2.743517e-08  
## 1553956\_at -1.750515832 3.271817 -8.361123 3.300105e-08  
## 203714\_s\_at -1.320588168 5.556885 -8.306889 3.677992e-08  
## 200733\_s\_at -1.425932233 8.320090 -7.833720 9.629371e-08  
## 221261\_x\_at -3.076353985 3.663489 -7.702934 1.263062e-07  
## 212458\_at 2.591459496 4.415273 7.638020 1.446360e-07  
## 205489\_at -3.265635816 4.145040 -7.614813 1.518363e-07  
## 219024\_at -2.109896076 5.245484 -7.521730 1.846375e-07  
## 219311\_at -1.460957050 4.473982 -7.520560 1.850935e-07  
## 205398\_s\_at -1.553865467 4.424977 -7.495742 1.950408e-07  
## 219655\_at 3.384183452 3.378314 7.440107 2.193921e-07  
## 225623\_at -2.189795993 6.038641 -7.406769 2.354644e-07  
## 221591\_s\_at -2.702472522 3.620490 -7.355183 2.627624e-07  
## 212956\_at -4.123214070 9.327473 -7.212815 3.563163e-07  
## 216615\_s\_at 4.600391691 4.109070 7.107367 4.472624e-07  
## 217936\_at -2.265714395 5.870721 -7.082973 4.715113e-07  
## 235626\_at -2.240564070 7.829245 -7.033583 5.248355e-07  
## 208690\_s\_at -1.723343034 10.486672 -7.030216 5.286887e-07  
## 227650\_at -1.662005052 4.782947 -7.017312 5.437301e-07  
## 225095\_at -2.525216370 5.386997 -6.982634 5.863675e-07  
## 1554652\_s\_at -0.600872099 2.547123 -6.719985 1.044027e-06  
## 203434\_s\_at 2.649450724 3.005562 6.691407 1.112263e-06  
## 219530\_at -1.390419458 5.858782 -6.592576 1.385620e-06  
## 36566\_at -0.890768062 4.456492 -6.532109 1.585987e-06  
## 200730\_s\_at -2.319099954 4.355970 -6.513817 1.652282e-06  
## 230634\_x\_at -1.901683570 5.157320 -6.491252 1.737989e-06  
## 226382\_at -2.893409659 6.544563 -6.481416 1.776763e-06  
## 227005\_at -0.983611609 6.154745 -6.454592 1.887070e-06  
## 224796\_at 1.341795392 7.684872 6.328567 2.507309e-06  
## 235037\_at -1.318091547 5.156872 -6.280335 2.796834e-06  
## 201167\_x\_at -1.259227295 4.779595 -6.246399 3.020877e-06  
## 212123\_at -1.354708168 5.609115 -6.242865 3.045234e-06  
## 1564064\_a\_at -1.851145300 4.454282 -6.228307 3.147735e-06  
## 226775\_at -1.658021075 4.302893 -6.182011 3.497784e-06  
## 210527\_x\_at -1.246750388 5.484594 -6.135845 3.886596e-06  
## 216321\_s\_at 1.349689672 9.128327 6.088921 4.327218e-06  
## 242787\_at -1.086767599 2.988047 -6.088724 4.329168e-06  
## 216202\_s\_at -3.077381209 5.155897 -6.054183 4.686060e-06  
## 203142\_s\_at -1.948686579 6.746759 -6.050790 4.722705e-06  
## 233849\_s\_at -2.302242118 6.373935 -6.040721 4.833171e-06  
## 224642\_at -1.420384609 6.621239 -6.040092 4.840157e-06  
## 207460\_at 1.297851844 4.705676 6.038923 4.853181e-06  
## 227964\_at -0.870656737 7.642560 -6.026510 4.993599e-06  
## 227807\_at -1.084805471 5.055329 -6.025556 5.004559e-06  
## 219047\_s\_at -1.154836005 3.556108 -6.019292 5.077156e-06  
## 212960\_at -3.217051464 5.026256 -6.004393 5.254172e-06  
## 218582\_at -1.818123931 5.234440 -5.994712 5.372563e-06  
## 41858\_at -1.343519892 5.403563 -5.992723 5.397215e-06  
## 218834\_s\_at -1.438940764 2.882257 -5.989329 5.439570e-06  
## 1553499\_s\_at 2.618108814 3.594752 5.972872 5.649750e-06  
## 226959\_at -2.063694647 6.828923 -5.956484 5.867312e-06  
## 212673\_at -1.283543507 7.450955 -5.956246 5.870538e-06  
## 235310\_at 2.802574781 4.251466 5.943065 6.051811e-06  
## 210258\_at 8.432472275 5.490740 5.924546 6.316208e-06  
## 219453\_at -0.974499235 4.820853 -5.880875 6.987411e-06  
## 211635\_x\_at -1.605352100 4.933219 -5.876590 7.057068e-06  
## 1552619\_a\_at -1.343849290 2.883500 -5.861871 7.301810e-06  
## 205607\_s\_at -1.246587970 5.910194 -5.840997 7.663842e-06  
## 206170\_at -2.491767697 5.112034 -5.840158 7.678768e-06  
## 231779\_at -2.433089146 5.485876 -5.818668 8.071409e-06  
## 218845\_at -1.662577481 8.762138 -5.801403 8.401661e-06  
## 203033\_x\_at -0.728851557 7.164795 -5.793790 8.551620e-06  
## 222587\_s\_at -1.614188261 5.925116 -5.792609 8.575126e-06  
## 219753\_at 4.299746264 5.544386 5.784451 8.739326e-06  
## 1568752\_s\_at 5.486948697 4.371163 5.775100 8.931489e-06  
## 243738\_at 0.592009577 2.714760 5.758446 9.284451e-06  
## 213906\_at 3.621061558 5.635250 5.753205 9.398450e-06  
## 218349\_s\_at -1.705981995 5.511395 -5.729270 9.937460e-06  
## 200731\_s\_at -1.548995427 5.301738 -5.706591 1.047727e-05  
## 228181\_at -0.952293901 2.839673 -5.706538 1.047859e-05  
## 225607\_at -0.645420409 6.464674 -5.704718 1.052318e-05  
## 225689\_at -0.851488938 3.343023 -5.702005 1.059003e-05  
## 203017\_s\_at -0.568221686 2.965171 -5.668332 1.145660e-05  
## 204245\_s\_at -1.153463530 5.940802 -5.668129 1.146203e-05  
## 205740\_s\_at -0.713371555 7.524574 -5.637277 1.231979e-05  
## 225792\_at -3.110982834 4.555664 -5.620596 1.281051e-05  
## 235678\_at -2.757683602 6.375176 -5.579692 1.409979e-05  
## 243432\_at -1.264325113 3.091492 -5.575087 1.425298e-05  
## 202537\_s\_at -1.312138191 7.422829 -5.568516 1.447453e-05  
## 225331\_at -2.845293300 9.163263 -5.566598 1.453987e-05  
## 210253\_at -1.545006594 4.185900 -5.554034 1.497524e-05  
## 207245\_at 2.498043501 2.925750 5.529017 1.588209e-05  
## 219840\_s\_at 0.998090539 2.735452 5.515040 1.641287e-05  
## 217970\_s\_at -0.916122321 6.410777 -5.494661 1.721929e-05  
## 235051\_at -3.193261708 6.092977 -5.492130 1.732224e-05  
## 219110\_at -0.907196943 7.562351 -5.490413 1.739239e-05  
## 228642\_at 2.619611709 6.052795 5.449931 1.913361e-05  
## 225913\_at -1.456663992 7.189628 -5.443219 1.943900e-05  
## 226750\_at -1.244653311 3.461801 -5.433684 1.988135e-05  
## 225087\_at -0.514413927 7.998378 -5.430747 2.001965e-05  
## 218234\_at -1.065889505 5.035874 -5.426230 2.023429e-05  
## 204494\_s\_at -1.373178087 5.196330 -5.425535 2.026754e-05  
## 209426\_s\_at -0.879829949 3.154792 -5.424710 2.030701e-05  
## 223077\_at -1.138339777 7.475650 -5.414359 2.080953e-05  
## 204300\_at -1.056795027 5.048036 -5.408821 2.108360e-05  
## 203228\_at -1.762535363 5.735281 -5.401143 2.146959e-05  
## 202731\_at -2.564977383 6.598403 -5.393217 2.187558e-05  
## 218304\_s\_at -1.653019817 7.736097 -5.391557 2.196158e-05  
## 203350\_at -1.196450861 6.336583 -5.369611 2.313159e-05  
## 201282\_at -1.365704300 6.454824 -5.365646 2.334966e-05  
## 202869\_at -3.393198911 7.820974 -5.362765 2.350935e-05  
## 226247\_at -1.773095977 6.787152 -5.355460 2.391942e-05  
## 222250\_s\_at -1.566719433 5.222629 -5.354499 2.397392e-05  
## 212057\_at -1.520579808 6.933339 -5.352146 2.410780e-05  
## 209301\_at -3.598124015 4.761159 -5.348937 2.429170e-05  
## 225322\_s\_at -0.300423003 2.698827 -5.344707 2.453626e-05  
## 213454\_at -2.016881383 4.796986 -5.330293 2.538848e-05  
## 218973\_at -1.300222798 5.449254 -5.329300 2.544830e-05  
## 203715\_at -1.211877678 4.120491 -5.327071 2.558306e-05  
## 1553708\_at -3.105364394 3.409415 -5.320036 2.601319e-05  
## 1555509\_a\_at 0.154804835 2.418022 5.280499 2.857089e-05  
## 223789\_s\_at -0.631741377 2.680496 -5.265955 2.957469e-05  
## 229103\_at -5.272054903 4.574566 -5.254154 3.041549e-05  
## 227158\_at -1.630365009 5.815518 -5.251986 3.057260e-05  
## 227687\_at -2.453783442 4.192775 -5.246438 3.097829e-05  
## 222982\_x\_at -0.872950466 10.162990 -5.238678 3.155496e-05  
## 225384\_at -1.806553550 5.963245 -5.236545 3.171537e-05  
## 212198\_s\_at -1.054068237 5.175513 -5.223787 3.269224e-05  
## 203451\_at -0.977280975 6.082003 -5.198633 3.470861e-05  
## 234915\_s\_at -1.538425516 5.235696 -5.189625 3.546099e-05  
## 217831\_s\_at -1.046224400 5.712121 -5.186331 3.574023e-05  
## 203560\_at -2.089034594 5.283472 -5.178172 3.644158e-05  
## 222387\_s\_at -1.502899673 6.530388 -5.176945 3.654819e-05  
## 205909\_at -1.818584297 4.119999 -5.170973 3.707186e-05  
## 212835\_at -1.035387581 5.209104 -5.163321 3.775400e-05  
## 226455\_at -0.960346887 3.750964 -5.160484 3.801012e-05  
## 231973\_s\_at -0.811857961 5.552911 -5.157210 3.830790e-05  
## 223804\_s\_at -0.907886167 6.046279 -5.140361 3.987817e-05  
## 224791\_at 1.318990594 8.390839 5.122750 4.158913e-05  
## 203127\_s\_at -2.516563752 6.408481 -5.120154 4.184758e-05  
## 236356\_at -1.094589753 4.742109 -5.119985 4.186443e-05  
## 219357\_at -1.031375532 6.215356 -5.118658 4.199720e-05  
## 214639\_s\_at 2.468537035 3.945500 5.114547 4.241130e-05  
## 202005\_at -2.508131289 6.807384 -5.113540 4.251337e-05  
## 32069\_at -0.964085294 7.903135 -5.109582 4.291696e-05  
## 210685\_s\_at -0.817270800 5.471570 -5.107749 4.310507e-05  
## 202070\_s\_at -1.077441589 4.884062 -5.096449 4.428394e-05  
## 227422\_at -1.267441769 5.487505 -5.095050 4.443215e-05  
## 226823\_at -1.643291730 6.353907 -5.094049 4.453852e-05  
## 234465\_at -0.242135871 2.753523 -5.093235 4.462518e-05  
## 223455\_at -1.227636166 5.640462 -5.091017 4.486221e-05  
## 224374\_s\_at -3.222822950 5.140616 -5.084475 4.556869e-05  
## 222640\_at -2.434616980 5.891000 -5.080929 4.595642e-05  
## 201073\_s\_at -1.386928143 5.358529 -5.080552 4.599786e-05  
## 200895\_s\_at -1.383022991 6.516536 -5.076047 4.649564e-05  
## 221704\_s\_at -1.817460456 6.931916 -5.072297 4.691414e-05  
## 209113\_s\_at -0.917471765 5.754555 -5.068871 4.729989e-05  
## 204601\_at -1.469874871 6.101697 -5.063934 4.786137e-05  
## 231926\_at -1.287429707 3.333532 -5.062759 4.799599e-05  
## 218041\_x\_at -1.279260047 9.271114 -5.050811 4.938673e-05  
## 201072\_s\_at -1.421900624 5.825541 -5.032218 5.163272e-05  
## 212886\_at 1.534619814 8.202644 5.031432 5.172988e-05  
## 213237\_at -0.887964215 4.344746 -5.014681 5.384585e-05  
## 225456\_at -1.272286100 6.266755 -4.993409 5.665958e-05  
## 200810\_s\_at 0.734249421 10.259362 4.989303 5.721948e-05  
## 209838\_at -0.952117475 4.544581 -4.977240 5.889732e-05  
## 243609\_at 0.532121892 2.462662 4.976975 5.893475e-05  
## 206874\_s\_at -0.995495571 6.459077 -4.975965 5.907758e-05  
## 219068\_x\_at -0.780655661 4.371629 -4.969303 6.002828e-05  
## 224960\_at -0.892630279 7.354670 -4.967377 6.030604e-05  
## 209424\_s\_at -0.879905264 3.189582 -4.962453 6.102210e-05  
## 202572\_s\_at -1.375344666 4.837682 -4.962389 6.103136e-05  
## 212646\_at 2.765876059 10.076626 4.961521 6.115861e-05  
## 224675\_at -0.684935295 8.358868 -4.958537 6.159767e-05  
## 226741\_at -1.308802999 7.133521 -4.950725 6.276228e-05  
## 219734\_at -2.744014447 7.092189 -4.943227 6.390103e-05  
## 210449\_x\_at -1.679518806 3.670421 -4.942849 6.395900e-05  
## 213244\_at -1.647551993 3.854174 -4.934357 6.527506e-05  
## 222538\_s\_at -2.100824344 6.398277 -4.933737 6.537228e-05  
## 227624\_at -0.904747525 6.822183 -4.920211 6.752855e-05  
## 238762\_at -1.324637451 5.386819 -4.915623 6.827624e-05  
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## 223145\_s\_at -1.135253855 7.145132 -3.533371 1.912735e-03  
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## 226656\_at 0.668354755 5.692096 3.405429 2.592755e-03  
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## 201251\_at -0.743508469 10.003196 -3.400007 2.626283e-03  
## 221259\_s\_at 0.128220301 2.388149 3.399682 2.628307e-03  
## 216306\_x\_at -0.575028235 9.802165 -3.399233 2.631105e-03  
## 1570207\_at 0.562691456 2.460121 3.398726 2.634267e-03  
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## 233077\_at 0.466247339 2.522066 3.397962 2.639037e-03  
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## 208014\_x\_at 0.650714525 2.492511 3.397425 2.642399e-03  
## 206245\_s\_at -1.579515842 7.438764 -3.397004 2.645036e-03  
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## 233693\_at 0.367928225 2.859565 3.391008 2.682870e-03  
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## 222101\_s\_at -1.356216904 4.969189 -3.379220 2.758791e-03  
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## 213062\_at -0.735840887 6.778431 -3.378173 2.765633e-03  
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## 204827\_s\_at -0.411731206 2.582280 -2.956521 7.397136e-03  
## 225878\_at -0.979991123 4.563116 -2.956086 7.404510e-03  
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## 226603\_at -1.380881317 7.707171 -2.953565 7.447453e-03  
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## 226763\_at 1.053964723 5.917124 2.950201 7.505140e-03  
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## 241439\_at 0.523383433 2.452417 2.759077 1.158403e-02  
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## 225173\_at -0.955468818 5.835091 -2.707047 1.301662e-02  
## 204916\_at 0.809126973 4.651100 2.706718 1.302618e-02  
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## 214383\_x\_at -0.742412999 6.342371 -2.700296 1.321435e-02  
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## 227525\_at 0.882580600 8.405230 2.523765 1.951051e-02  
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## 1558076\_at -0.326667827 2.481334 -2.521601 1.960279e-02  
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## 219579\_at 0.363395141 4.911720 2.521304 1.961546e-02  
## 226627\_at 0.736595532 3.646360 2.521049 1.962640e-02  
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## 237016\_at 0.187786421 2.388364 2.520361 1.965583e-02  
## 229273\_at 0.163147846 2.376156 2.520124 1.966602e-02  
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## 236682\_at 0.163321147 2.376745 2.519947 1.967359e-02  
## 234228\_at 0.038660005 2.350221 2.519883 1.967632e-02  
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## 229676\_at -1.236889538 5.001827 -2.515900 1.984785e-02  
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## 235050\_at 0.209186662 2.392044 2.510586 2.007890e-02  
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## 1554014\_at -0.761888548 5.476762 -2.503308 2.039938e-02  
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## 221770\_at -0.554657852 5.215914 -2.502821 2.042098e-02  
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## 1555640\_at 0.109715942 2.368561 2.495496 2.074868e-02  
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## 241197\_at 0.087931334 2.361274 2.457612 2.252310e-02  
## 227348\_at -0.468035561 4.610092 -2.457532 2.252697e-02  
## 1561278\_at 0.068342421 2.358914 2.457443 2.253133e-02  
## 226220\_at -0.376896286 2.510291 -2.457274 2.253953e-02  
## 224390\_s\_at 0.073840507 2.364343 2.457259 2.254027e-02  
## 1553082\_at -0.078717923 2.388275 -2.456897 2.255793e-02  
## 1555366\_at 0.092942943 2.364157 2.456599 2.257245e-02  
## 212870\_at -0.507314841 7.511278 -2.456519 2.257631e-02  
## 1557948\_at -1.170986040 4.735648 -2.456289 2.258753e-02  
## 224652\_at -0.553664281 6.740586 -2.456038 2.259979e-02  
## 1561612\_at 0.341681817 2.429088 2.455966 2.260332e-02  
## 236630\_at 0.502137770 3.331715 2.455953 2.260396e-02  
## 219038\_at -0.867155918 3.327261 -2.455940 2.260457e-02  
## 203050\_at -0.552131917 6.691897 -2.455808 2.261101e-02  
## 213562\_s\_at -0.870887294 2.874724 -2.455804 2.261123e-02  
## 1564444\_at 0.097435252 2.363946 2.455734 2.261465e-02  
## 209769\_s\_at 0.337671875 2.729165 2.455734 2.261465e-02  
## 1552329\_at -0.952337237 5.237260 -2.455734 2.261466e-02  
## 207712\_at 0.692526027 2.609101 2.455005 2.265027e-02  
## 223070\_at -0.489679955 9.208683 -2.454939 2.265351e-02  
## 227587\_at -0.743125185 5.270977 -2.454817 2.265947e-02  
## 1558903\_at 0.407019684 2.428686 2.454783 2.266112e-02  
## 235465\_at 0.232909450 2.400031 2.454450 2.267742e-02  
## 219633\_at -0.743552527 5.603863 -2.454411 2.267932e-02  
## 215035\_at -0.098125500 2.387786 -2.454193 2.269001e-02  
## 230680\_at 0.130882622 2.374561 2.454001 2.269942e-02  
## 233524\_at 0.234639902 2.394263 2.453500 2.272398e-02  
## 225856\_at -0.629297307 6.717210 -2.453326 2.273253e-02  
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## 224542\_s\_at 0.431230797 2.530834 2.453164 2.274047e-02  
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## 209317\_at -0.841507898 6.342038 -2.452507 2.277272e-02  
## 1554831\_x\_at -0.026171366 2.348243 -2.452499 2.277313e-02  
## 214803\_at 0.220265216 2.390445 2.452463 2.277490e-02  
## 225735\_at -0.357909787 2.533621 -2.452265 2.278463e-02  
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## 226292\_at 0.053413815 2.433674 2.452135 2.279103e-02  
## 212584\_at -0.576594663 7.289474 -2.452005 2.279741e-02  
## 219760\_at -0.495627137 3.370685 -2.451916 2.280181e-02  
## 237794\_at 0.469888277 2.475428 2.451910 2.280206e-02  
## 237748\_at 0.060229407 2.356104 2.451863 2.280439e-02  
## 243709\_at 1.038949711 4.585764 2.451754 2.280975e-02  
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## 1561197\_at 0.145301258 2.372438 2.451305 2.283186e-02  
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## 1569479\_at 0.130959105 2.393742 2.450772 2.285813e-02  
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## 215590\_x\_at 0.815044072 2.712385 2.450070 2.289278e-02  
## 1563868\_a\_at -0.062426813 2.356170 -2.450031 2.289473e-02  
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## 226238\_at -0.748879607 5.089872 -2.449294 2.293117e-02  
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## 228227\_at 0.291114699 2.403680 2.448828 2.295423e-02  
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## 229558\_at -0.549465018 4.672352 -2.447908 2.299981e-02  
## 221044\_s\_at -1.311466947 6.410695 -2.447458 2.302214e-02  
## 201337\_s\_at -1.157132383 5.173997 -2.447428 2.302361e-02  
## 207931\_s\_at 0.185612250 2.385381 2.447252 2.303239e-02  
## 211081\_s\_at -0.554841552 3.804766 -2.447015 2.304415e-02  
## 208973\_at -0.636679218 3.975849 -2.446888 2.305045e-02  
## 236866\_at 0.131399243 2.370503 2.446844 2.305264e-02  
## 243829\_at -0.698621159 4.395240 -2.446664 2.306158e-02  
## 202446\_s\_at -0.656549741 8.550650 -2.446541 2.306772e-02  
## 243933\_at 1.151148482 3.662178 2.446348 2.307732e-02  
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## 214703\_s\_at 0.538851830 6.767837 2.445674 2.311089e-02  
## 207669\_at -0.212141869 2.403144 -2.445647 2.311222e-02  
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## 208473\_s\_at 0.052125647 2.354781 2.445476 2.312074e-02  
## 202018\_s\_at 2.305396872 6.607837 2.445458 2.312166e-02  
## 235227\_at -0.581790673 3.696821 -2.444088 2.319002e-02  
## 215303\_at 0.358917040 2.941540 2.443746 2.320713e-02  
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## 227858\_at 0.325419258 3.990690 2.443275 2.323068e-02  
## 239239\_at 0.144825959 2.375021 2.443065 2.324121e-02  
## 1556015\_a\_at 0.445571314 2.732074 2.442894 2.324977e-02  
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## 242526\_at 0.243333297 2.437978 2.440816 2.335413e-02  
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## 240680\_at 0.036015109 2.351064 2.437522 2.352041e-02  
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## 201158\_at -0.487297412 6.617670 -2.435871 2.360416e-02  
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## 214728\_x\_at -0.633329730 7.752759 -2.431219 2.384164e-02  
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## 223880\_x\_at -0.812061911 9.296602 -2.424153 2.420662e-02  
## 212669\_at -0.737257308 3.884692 -2.423983 2.421547e-02  
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## 233135\_at 0.353453196 2.484617 2.423641 2.423328e-02  
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## 243297\_at 0.376290083 2.981364 2.423497 2.424075e-02  
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## 215899\_at 0.113355695 2.655752 2.423390 2.424636e-02  
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## 232016\_at 0.333912961 2.667732 2.422808 2.427666e-02  
## 223736\_at 0.350266246 2.429232 2.422789 2.427764e-02  
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## 240389\_at 0.087109339 2.360696 2.418653 2.449427e-02  
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## 200697\_at -0.379951275 8.429541 -2.416619 2.460147e-02  
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## 216524\_x\_at 0.486766542 7.494270 2.386204 2.625693e-02  
## 203422\_at -1.180574497 5.723205 -2.386004 2.626816e-02  
## 232196\_at 0.196668633 2.383521 2.385949 2.627125e-02  
## 204074\_s\_at -0.807090440 5.708143 -2.385850 2.627680e-02  
## 241220\_at 0.269897271 2.543093 2.385847 2.627699e-02  
## 201363\_s\_at -0.818111714 6.920052 -2.385640 2.628859e-02  
## 213643\_s\_at -0.405180731 2.697760 -2.385602 2.629073e-02  
## 227693\_at -0.737434266 5.037910 -2.385583 2.629181e-02  
## 220190\_s\_at 0.662058647 2.509008 2.385522 2.629519e-02  
## 208519\_x\_at 0.155801711 2.379043 2.385366 2.630400e-02  
## 1566079\_at 1.267777280 6.388966 2.385329 2.630604e-02  
## 242262\_x\_at 0.167800441 2.394152 2.385228 2.631175e-02  
## 202216\_x\_at -0.684541288 5.405759 -2.385057 2.632133e-02  
## 213968\_at 0.120929145 2.367360 2.385007 2.632416e-02  
## 224759\_s\_at -0.682860468 7.598953 -2.384935 2.632819e-02  
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## 216777\_at 0.447854963 2.441025 2.384576 2.634840e-02  
## 1566638\_at 0.025781565 2.348153 2.384515 2.635183e-02  
## 1552902\_a\_at 0.087362304 2.360367 2.384497 2.635283e-02  
## 1569583\_at 0.075646072 2.357926 2.384485 2.635353e-02  
## 226709\_at 0.192516319 2.392728 2.384477 2.635394e-02  
## 237786\_at 0.159627125 2.378078 2.384401 2.635825e-02  
## 225964\_at -0.606892312 5.031786 -2.384293 2.636430e-02  
## 219624\_at -0.629052576 3.396844 -2.384186 2.637037e-02  
## 228859\_at -1.126133423 4.896767 -2.384073 2.637670e-02  
## 235211\_at 0.143406580 2.399929 2.383868 2.638827e-02  
## 1566190\_at 0.303224800 2.426774 2.383788 2.639275e-02  
## 230656\_s\_at -0.897209146 6.622484 -2.383748 2.639502e-02  
## 1558475\_at 0.058862482 2.354429 2.383686 2.639849e-02  
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## 213052\_at -0.458168322 7.061110 -2.382763 2.645060e-02  
## 234225\_at 0.125817867 2.374322 2.382729 2.645248e-02  
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## 228559\_at -0.838100418 5.515239 -2.382076 2.648941e-02  
## 243661\_at -0.132991384 2.620164 -2.382021 2.649252e-02  
## 207281\_x\_at 0.158750262 2.461596 2.381983 2.649466e-02  
## 240029\_at 0.232022067 2.425985 2.381975 2.649511e-02  
## 233406\_at 0.262907221 2.609689 2.381896 2.649957e-02  
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## 201572\_x\_at -0.723258064 7.149314 -2.381201 2.653892e-02  
## 206961\_s\_at -0.393545864 2.667938 -2.381150 2.654183e-02  
## 222487\_s\_at 0.512193735 5.499868 2.381110 2.654405e-02  
## 223274\_at -0.920364225 4.630944 -2.381056 2.654713e-02  
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## 215720\_s\_at -0.363042210 3.117678 -2.378065 2.671709e-02  
## 1567913\_at 1.008732987 2.673064 2.377984 2.672169e-02  
## 242391\_at 0.442607354 2.450356 2.377916 2.672558e-02  
## 216229\_x\_at 1.017407829 4.127945 2.377853 2.672918e-02  
## 223627\_at -0.356615464 2.445751 -2.377715 2.673705e-02  
## 231010\_at 0.340616693 2.414689 2.377679 2.673912e-02  
## 228442\_at 1.518605399 8.157722 2.377477 2.675061e-02  
## 240375\_at 0.022949110 2.346947 2.376949 2.678078e-02  
## 201510\_at -0.170924701 2.380847 -2.376654 2.679764e-02  
## 240205\_x\_at 0.879792930 6.430662 2.376587 2.680147e-02  
## 205043\_at -0.106820427 2.364421 -2.376462 2.680862e-02  
## 231872\_at -0.409493224 2.606082 -2.376444 2.680966e-02  
## 1552332\_at 0.059169156 3.616669 2.376421 2.681095e-02  
## 227622\_at 0.575526505 6.238124 2.376409 2.681162e-02  
## 224738\_x\_at -0.314809269 9.427964 -2.375558 2.686034e-02  
## 220868\_s\_at 0.110503529 2.365305 2.375413 2.686866e-02  
## 1558102\_at -1.330872838 3.162996 -2.375166 2.688278e-02  
## 219604\_s\_at -0.230862424 2.406069 -2.375129 2.688493e-02  
## 1555167\_s\_at -1.348643376 3.616218 -2.374983 2.689328e-02  
## 1556128\_a\_at 0.388027129 2.430089 2.374958 2.689470e-02  
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## 238765\_at -0.627709931 3.340012 -2.362489 2.761854e-02  
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## 220601\_at 0.294688745 2.448758 2.358937 2.782805e-02  
## 213902\_at -0.514044186 6.976941 -2.358933 2.782824e-02  
## 243924\_at -0.220776542 2.580850 -2.358817 2.783513e-02  
## 1557606\_at 0.120419504 2.376567 2.358761 2.783843e-02  
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## 237819\_at 0.343622038 2.429050 2.356396 2.797877e-02  
## 207686\_s\_at -0.787932048 4.206842 -2.356274 2.798603e-02  
## 212966\_at -0.649650029 5.238477 -2.356271 2.798619e-02  
## 1555187\_at 0.184364426 2.380576 2.356146 2.799366e-02  
## 238202\_at 0.146887993 2.426147 2.356124 2.799497e-02  
## 208416\_s\_at 0.044937564 2.357628 2.356104 2.799617e-02  
## 244271\_at 0.451216418 3.226445 2.356005 2.800204e-02  
## 209666\_s\_at -0.647796507 5.933429 -2.355802 2.801413e-02  
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## 244753\_at 1.291798534 4.817146 2.355729 2.801846e-02  
## 235409\_at -1.095073054 6.180397 -2.355524 2.803068e-02  
## 238708\_at 0.158579712 2.499536 2.355156 2.805264e-02  
## 221353\_at 0.031985773 2.349119 2.355069 2.805779e-02  
## 219366\_at -0.817312763 5.256320 -2.355057 2.805853e-02  
## 215478\_at 0.463920166 2.617559 2.354873 2.806950e-02  
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## 231335\_at 0.085601055 2.361456 2.354711 2.807918e-02  
## 209743\_s\_at -0.651111287 4.362612 -2.354505 2.809144e-02  
## 1558982\_at 0.906864142 2.568537 2.354351 2.810062e-02  
## 1552747\_a\_at 0.058040818 2.358485 2.354348 2.810084e-02  
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## 209139\_s\_at -0.552079766 6.884064 -2.354333 2.810174e-02  
## 1563339\_at 0.165665606 2.398850 2.354190 2.811024e-02  
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## 239175\_at 1.154687639 5.572609 2.354124 2.811420e-02  
## 224253\_at 0.070095358 2.359808 2.353986 2.812246e-02  
## 241071\_at 0.143207245 2.413389 2.353926 2.812605e-02  
## 241724\_x\_at 0.594207126 6.490491 2.353667 2.814153e-02  
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## 218284\_at -0.898996602 5.860310 -2.353481 2.815261e-02  
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## 1561579\_at 0.028160054 2.348166 2.353041 2.817894e-02  
## 227243\_s\_at 0.545407678 2.878630 2.352922 2.818610e-02  
## 1561214\_at 0.955485957 2.547292 2.352900 2.818741e-02  
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## 222762\_x\_at -0.767481468 8.107549 -2.352564 2.820754e-02  
## 1553796\_at -0.051066235 2.362237 -2.352288 2.822409e-02  
## 219108\_x\_at -0.477211306 7.793567 -2.352021 2.824007e-02  
## 220441\_at 0.021688107 2.347012 2.351157 2.829195e-02  
## 223440\_at -0.536779987 4.741910 -2.351069 2.829727e-02  
## 229827\_at -0.252463458 2.416710 -2.350914 2.830654e-02  
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## 225368\_at -0.847171596 7.656359 -2.350703 2.831923e-02  
## 201173\_x\_at -0.426343509 6.998144 -2.350595 2.832576e-02  
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## 229045\_at -0.502779194 2.606305 -2.350088 2.835626e-02  
## 240477\_at 0.175029200 2.385386 2.350061 2.835789e-02  
## 210244\_at -1.965525103 4.133347 -2.349792 2.837410e-02  
## 240744\_at 0.226369850 3.281850 2.349600 2.838563e-02  
## 203526\_s\_at -0.613127003 4.191923 -2.349420 2.839648e-02  
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## 239318\_at 0.133709799 2.371489 2.348256 2.846675e-02  
## 238164\_at -0.814175143 4.722755 -2.348166 2.847220e-02  
## 224888\_at -0.571677132 3.557057 -2.348166 2.847223e-02  
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## 212187\_x\_at 1.327610816 11.517240 2.346601 2.856691e-02  
## 1552625\_a\_at -0.451339465 4.714192 -2.346519 2.857189e-02  
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## 1560474\_at 0.816264060 2.522952 2.346169 2.859316e-02  
## 237925\_at 0.224141151 2.388863 2.346149 2.859434e-02  
## 210402\_at 0.073589004 2.366783 2.345902 2.860937e-02  
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## 241802\_x\_at 0.199834620 2.972203 2.344993 2.866459e-02  
## 218812\_s\_at -1.138832999 6.645721 -2.344980 2.866539e-02  
## 227384\_s\_at 1.416560674 8.695886 2.344742 2.867982e-02  
## 212830\_at -0.860533157 5.723628 -2.344432 2.869869e-02  
## 228210\_at 0.611680894 3.175424 2.344404 2.870041e-02  
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## 1561079\_at 1.300850270 4.366315 2.342970 2.878787e-02  
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## 237639\_at 0.038006663 2.353332 2.342611 2.880980e-02  
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## 228465\_at 1.010338951 5.386157 2.342531 2.881469e-02  
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## 225837\_at -0.763869424 6.189857 -2.342053 2.884389e-02  
## 219976\_at -0.860500268 3.142424 -2.342020 2.884592e-02  
## 208906\_at -0.788898022 5.582775 -2.342001 2.884706e-02  
## AFFX-r2-Ec-bioC-5\_at 0.919410169 9.752821 2.341913 2.885244e-02  
## 235366\_at -0.334282354 2.583405 -2.341900 2.885323e-02  
## 226739\_at -0.462480322 6.163975 -2.341495 2.887805e-02  
## 220438\_at 0.211061794 2.397173 2.341285 2.889088e-02  
## AFFX-r2-Bs-thr-M\_s\_at 1.987259766 7.376361 2.341194 2.889649e-02  
## AFFX-BioC-5\_at 0.961740213 8.971522 2.340827 2.891898e-02  
## 209303\_at -0.667292249 6.816430 -2.340791 2.892117e-02  
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## 223755\_at 0.406017449 2.467612 2.340447 2.894225e-02  
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## 1556936\_at 0.619661112 2.526250 2.337486 2.912450e-02  
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## 213571\_s\_at -0.752888934 7.222889 -2.335436 2.925123e-02  
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## 223327\_x\_at -0.897053954 3.982591 -2.333542 2.936884e-02  
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## 211087\_x\_at -0.265593389 2.748988 -2.330811 2.953912e-02  
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## 235426\_at 0.109400475 2.612268 2.327190 2.976634e-02  
## 232185\_at 0.223926149 2.443516 2.327123 2.977055e-02  
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## 212255\_s\_at -0.471038306 6.494471 -2.326234 2.982656e-02  
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## 202278\_s\_at -0.786035141 3.486908 -2.325969 2.984330e-02  
## 225264\_at -0.522144550 6.629004 -2.325961 2.984378e-02  
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## 205373\_at 0.529115863 2.452399 2.323862 2.997656e-02  
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## 201032\_at -0.389477589 8.154737 -2.315533 3.050865e-02  
## 214993\_at 0.504796642 2.597882 2.315320 3.052240e-02  
## 1560921\_at 0.646727451 3.998731 2.315283 3.052475e-02  
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## 222813\_at -0.206456032 2.395607 -2.295718 3.180967e-02  
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## 204997\_at 0.182638465 2.401965 2.294485 3.189232e-02  
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## 227204\_at -1.132776174 3.855001 -2.293415 3.196414e-02  
## 236516\_at 0.258508831 2.405705 2.292920 3.199745e-02  
## 1570208\_at 0.028742479 2.349467 2.292803 3.200536e-02  
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## 240995\_at 0.101592242 2.367572 2.292688 3.201305e-02  
## 232890\_at 0.681894769 4.054411 2.292634 3.201670e-02  
## 233858\_at 0.079108473 2.363733 2.292531 3.202365e-02  
## 243323\_s\_at 0.352714136 2.505229 2.292437 3.202999e-02  
## 228519\_x\_at 0.524857789 6.034658 2.292424 3.203088e-02  
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## 217909\_s\_at -0.761159488 5.914365 -2.290410 3.216675e-02  
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## 213374\_x\_at -0.306903573 7.047284 -2.286690 3.241917e-02  
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## 233418\_at 0.136324536 2.560530 2.264737 3.394619e-02  
## 224446\_at -0.619823647 7.205778 -2.264728 3.394681e-02  
## 224376\_s\_at -0.838403398 8.566974 -2.264682 3.395011e-02  
## 209324\_s\_at 1.203508438 4.373712 2.264598 3.395601e-02  
## 219612\_s\_at 0.178253292 2.396405 2.264515 3.396193e-02  
## 226316\_at 0.765076354 6.618825 2.264472 3.396496e-02  
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## 202992\_at 2.409011386 6.959148 2.263036 3.406719e-02  
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## 230292\_at 1.644995931 4.131947 2.262434 3.411009e-02  
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## 240643\_at 0.530877199 3.017455 2.261993 3.414160e-02  
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## 244609\_at 0.024233573 2.347215 2.258699 3.437751e-02  
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## 208225\_at 0.032112579 2.349030 2.258631 3.438241e-02  
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## 228906\_at -0.573783706 2.528514 -2.257011 3.449904e-02  
## AFFX-r2-Ec-bioD-3\_at 0.698804888 12.665791 2.257008 3.449922e-02  
## 210010\_s\_at -0.766345397 5.995564 -2.256859 3.450998e-02  
## 202273\_at 0.618997643 4.661651 2.256769 3.451648e-02  
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## 1557849\_at 0.076870106 2.361762 2.256540 3.453303e-02  
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## 1562299\_at 0.029858734 2.349646 2.255983 3.457321e-02  
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## 1552633\_at -0.973139314 7.083258 -2.252340 3.483730e-02  
## 229690\_at -0.174176762 5.070604 -2.252102 3.485456e-02  
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## 241600\_at 0.496029253 3.146878 2.249766 3.502496e-02  
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## 218889\_at -0.777127892 7.450720 -2.249286 3.506007e-02  
## 203049\_s\_at -0.458129816 8.312752 -2.249189 3.506716e-02  
## AFFX-BioDn-5\_at 0.910473177 10.900596 2.249015 3.507991e-02  
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## 205913\_at -0.378716417 2.421757 -2.203135 3.858872e-02  
## 223118\_s\_at -0.508222946 4.896735 -2.203024 3.859757e-02  
## 232699\_at 0.070967945 2.370172 2.202935 3.860467e-02  
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## 1555964\_at -0.529658373 2.748800 -2.146948 4.331911e-02  
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## 224921\_at -0.369189540 7.203071 -2.145505 4.344717e-02  
## 208216\_at -0.277509395 2.466088 -2.145485 4.344901e-02  
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## 230510\_at 0.193670972 2.385015 2.144969 4.349487e-02  
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## 210031\_at 1.521898711 6.640030 2.144617 4.352624e-02  
## 217063\_x\_at 0.074261137 2.360337 2.143851 4.359446e-02  
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## 212557\_at 0.339906172 7.047473 2.142937 4.367607e-02  
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## 224624\_at -0.644380750 7.435281 -2.141800 4.377770e-02  
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## 201489\_at -1.242517969 7.434640 -2.137270 4.418495e-02  
## 201870\_at -0.404937833 6.181568 -2.137210 4.419040e-02  
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## 234138\_at 0.059528256 2.360833 2.136565 4.424863e-02  
## 220107\_s\_at 0.087766727 2.361703 2.136512 4.425344e-02  
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## 243215\_at -0.164714949 2.378306 -2.136381 4.426523e-02  
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## 229493\_at 0.009173150 2.344453 2.014428 5.661227e-02  
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## [ reached 'max' / getOption("max.print") -- omitted 38009 rows ]

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## logFC AveExpr t P.Value adj.P.Val B  
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## 226966\_at 0.9800724 2.845276 263.0316 2.777512e-39 7.593025e-35 68.61869  
## 1564816\_at 0.7979790 2.672276 257.7739 4.291211e-39 7.820732e-35 68.48840  
## 219879\_s\_at 0.6322883 2.603135 202.8693 7.473104e-37 1.021480e-32 66.63797  
## 204104\_at 0.6033442 4.412826 195.0970 1.733580e-36 1.895670e-32 66.27946  
## 242997\_at 0.5393703 2.580347 171.0266 2.955452e-35 2.693156e-31 64.94709

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## 242997\_at 0.53937030 2.580347 171.026617 2.955452e-35  
## 244701\_at 0.69099729 2.649581 166.685607 5.141407e-35  
## 1555248\_a\_at 0.49802239 2.566917 160.930739 1.095673e-34  
## 210864\_x\_at 1.50957937 2.975538 151.317432 4.127509e-34  
## 209812\_x\_at 0.58248426 2.584178 147.069626 7.619784e-34  
## 206657\_s\_at 0.44469072 2.555775 143.330417 1.326627e-33  
## 215822\_x\_at 0.42361957 2.517347 123.103085 3.507151e-32  
## 205271\_s\_at 1.33514366 2.912797 122.751295 3.729950e-32  
## 211410\_x\_at 0.40875237 2.511391 119.357362 6.819617e-32  
## 211866\_x\_at 0.36709098 2.492797 118.702286 7.677065e-32  
## 1569679\_at 0.88730649 3.367792 114.037228 1.819209e-31  
## 38707\_r\_at 3.58951394 4.256011 112.426709 2.470551e-31  
## 62987\_r\_at 4.18422274 4.133809 110.585740 3.524259e-31  
## 233486\_at 0.41189490 2.513248 101.261560 2.344121e-30  
## 217953\_at -1.32005326 3.121801 -96.850511 6.108897e-30  
## 209837\_at 1.87539286 3.889694 96.825900 6.142374e-30  
## 202507\_s\_at 0.67715838 2.676917 95.306350 8.630905e-30  
## 1555266\_a\_at 0.28650850 2.459595 91.917419 1.879885e-29  
## 215348\_at 0.28068834 2.532878 90.763190 2.466686e-29  
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## 233541\_at 0.27335127 2.453060 78.158772 6.129192e-28  
## 205695\_at -0.23225734 2.480904 -75.102575 1.443526e-27  
## 232807\_at -0.25387198 2.494067 -72.164821 3.399966e-27  
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## 1559682\_at -0.37890559 2.706079 -50.357876 7.578947e-24  
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## 221450\_x\_at 1.14928859 2.811992 44.893067 8.810796e-23  
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## 229405\_at -0.24994691 2.499162 -44.633846 9.969273e-23  
## 236053\_at 0.65974836 4.028134 44.510772 1.057406e-22  
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## 221779\_at 2.49279023 5.217813 10.416451 7.143831e-10  
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## 202791\_s\_at 1.04988968 5.323048 10.030713 1.410064e-09  
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## 207567\_at 0.50684327 2.538403 10.014685 1.451019e-09  
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## 212935\_at 0.99140462 2.844009 9.678338 2.664891e-09  
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## 216289\_at 0.71992638 2.660452 9.649292 2.810328e-09  
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## 244373\_at -1.69260350 3.332773 -9.333402 5.042433e-09  
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## 228886\_at 0.72189601 3.991546 9.316083 5.208532e-09  
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## 220704\_at -4.09401196 5.872737 -9.019912 9.118981e-09  
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## 217525\_at -1.87182573 4.033856 -6.639366 1.248513e-06  
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## 243052\_at 0.97606242 3.512603 6.521941 1.622496e-06  
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## 217603\_at -1.53407666 3.250846 -6.515667 1.645450e-06  
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## 217362\_x\_at 2.45132037 7.298791 6.512281 1.657973e-06  
## 215823\_x\_at 0.67765531 12.142564 6.511741 1.659981e-06  
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## 205085\_at 0.83254444 2.878086 6.503507 1.690889e-06  
## 223675\_s\_at -1.02584723 6.924359 -6.503206 1.692032e-06  
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## 237626\_at -2.82205580 5.548216 -5.667714 1.147316e-05  
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## 204407\_at -1.52271660 5.963747 -5.666448 1.150716e-05  
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## 242689\_at 0.16877454 2.390333 5.659350 1.169972e-05  
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## 225376\_at 1.01789070 6.222375 5.363233 2.348334e-05  
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## 1563243\_at 0.04532967 2.354834 5.361088 2.360290e-05  
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## 236605\_at -0.54484852 3.092837 -5.358477 2.374919e-05  
## 221246\_x\_at -1.02294066 3.728218 -5.358364 2.375552e-05  
## 243414\_at -1.05907891 3.869396 -5.358277 2.376044e-05  
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## 221861\_at 1.21279790 3.632259 5.357632 2.379676e-05  
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## 201733\_at -1.59364153 5.176751 -5.356691 2.384982e-05  
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## 242672\_at -2.03526457 3.592111 -5.355836 2.389815e-05  
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## 236612\_at -2.63772154 4.251315 -5.355484 2.391802e-05  
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## 1555808\_a\_at 0.01866103 2.351818 5.340276 2.479506e-05  
## 218206\_x\_at 0.90030003 7.784641 5.339774 2.482457e-05  
## 214659\_x\_at -1.33095873 6.025451 -5.339113 2.486349e-05  
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## 225183\_at 0.62203759 8.021322 4.904306 7.015643e-05  
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## 208437\_at 0.28786747 2.436728 4.901490 7.063222e-05  
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## 230106\_at -0.63329125 2.960939 -4.900373 7.082200e-05  
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## 211070\_x\_at 1.56045068 9.875822 4.899425 7.098327e-05  
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## 241498\_at 0.65149034 2.947404 4.898816 7.108714e-05  
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## 224178\_s\_at 0.19821769 2.395703 4.898303 7.117484e-05  
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## 206124\_s\_at 0.22889883 2.425787 4.892979 7.209050e-05  
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## 210651\_s\_at 0.23997178 2.514674 4.892023 7.225619e-05  
## 244738\_at -0.60203196 3.067169 -4.891268 7.238745e-05  
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## 223378\_at 0.97546589 3.086499 4.885521 7.339340e-05  
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## 237026\_at -0.42612502 2.754198 -4.876855 7.493714e-05  
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## 230622\_at 0.08290373 2.391363 4.823956 8.509828e-05  
## 1554691\_a\_at 1.58357245 5.423680 4.823771 8.513608e-05  
## 228366\_at -0.99258625 4.295953 -4.823561 8.517912e-05  
## 244408\_at -1.65091770 3.948020 -4.823308 8.523095e-05  
## 220118\_at -3.23470019 4.516781 -4.823102 8.527307e-05  
## 239392\_s\_at -1.28398089 5.471126 -4.822733 8.534883e-05  
## 230651\_at -1.87663873 5.204021 -4.822428 8.541157e-05  
## 244523\_at -1.36413498 3.812992 -4.822218 8.545458e-05  
## 216336\_x\_at 1.60529662 6.452596 4.822024 8.549450e-05  
## 205928\_at 1.06899505 6.248130 4.821876 8.552501e-05  
## 228549\_at -1.06988432 5.234924 -4.821664 8.556866e-05  
## 219793\_at -1.62451826 4.044666 -4.821296 8.564431e-05  
## 231500\_s\_at 1.18443845 3.101281 4.821083 8.568830e-05  
## 234196\_at -1.52509265 3.346985 -4.821003 8.570484e-05  
## 1569552\_at -0.94509958 2.899948 -4.820940 8.571774e-05  
## 223013\_at 0.77354198 9.994129 4.820916 8.572263e-05  
## 209902\_at -1.32764019 6.227317 -4.820268 8.585639e-05  
## 216793\_x\_at -0.13505404 2.428184 -4.820137 8.588356e-05  
## 1554842\_at -0.29259764 2.673473 -4.820093 8.589254e-05  
## 1555423\_at -0.78157498 2.801339 -4.819854 8.594194e-05  
## 219718\_at 0.40765631 2.521175 4.819680 8.597795e-05  
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## 237536\_at 0.33263443 2.695871 4.817147 8.650350e-05  
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## 239485\_at 0.16335248 2.402170 4.807325 8.857178e-05  
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## 217152\_at -1.32664147 4.930715 -4.802809 8.953941e-05  
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## 230729\_at 0.91551752 3.212893 4.800036 9.013898e-05  
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## 1561106\_at 0.11295659 2.401303 4.798309 9.051440e-05  
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## 241424\_at 0.35013873 2.500832 4.796869 9.082848e-05  
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## 234687\_x\_at -0.68560940 4.497767 -4.796436 9.092321e-05  
## 202202\_s\_at 1.63488302 3.573099 4.796085 9.100001e-05  
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## 242858\_at -0.59171011 2.955603 -4.783283 9.384782e-05  
## 221879\_at -1.14338036 4.459940 -4.782827 9.395080e-05  
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## 242356\_at -0.71557587 3.868787 -4.767779 9.741706e-05  
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## 206955\_at 0.25678158 2.756210 4.738394 1.045622e-04  
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## 221471\_at 0.71835885 8.060959 4.505027 1.836651e-04  
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## 224707\_at 1.20993555 6.956760 4.500958 1.854806e-04  
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## 1561820\_at 0.21252229 2.524698 4.161889 4.213409e-04  
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## 202321\_at -0.97255531 5.054677 -4.141287 4.428775e-04  
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## 225606\_at 1.28463604 7.591058 4.140717 4.434893e-04  
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## 236944\_at -1.17314877 3.175836 -3.846071 9.035709e-04  
## 1557991\_at -0.25328188 2.518844 -3.845987 9.037530e-04  
## 224265\_s\_at -0.08405736 2.394454 -3.845978 9.037723e-04  
## 233594\_at 0.01205056 2.345297 3.845659 9.044668e-04  
## 205277\_at -1.27965024 4.559268 -3.845613 9.045688e-04  
## 221068\_at 0.28355906 2.508040 3.845154 9.055678e-04  
## 204369\_at -1.59494397 6.967344 -3.844646 9.066786e-04  
## 238543\_x\_at 0.54563093 3.384804 3.844432 9.071445e-04  
## 226839\_at 0.97154812 5.391053 3.844090 9.078930e-04  
## 218210\_at 0.85951114 6.406484 3.844028 9.080287e-04  
## 219193\_at 0.87139634 6.019050 3.843825 9.084725e-04  
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## 214647\_s\_at -0.04893932 2.382999 -3.843632 9.088947e-04  
## 226381\_at -1.09890905 6.779392 -3.843367 9.094761e-04  
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## 223853\_at 0.05081598 2.351592 3.842266 9.118910e-04  
## 202377\_at 1.22689940 7.360431 3.841995 9.124878e-04  
## 200867\_at -0.89901254 7.818654 -3.841724 9.130836e-04  
## 222425\_s\_at 0.85645357 6.382001 3.841675 9.131904e-04  
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## 1560844\_at 0.27275908 2.409660 3.840837 9.150350e-04  
## 224972\_at 0.67950797 7.826011 3.840704 9.153296e-04  
## 200830\_at 0.68390132 8.469042 3.840262 9.163047e-04  
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## 200916\_at 1.01674354 9.906648 3.839552 9.178723e-04  
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## 202658\_at 0.80267084 7.421355 3.837115 9.232763e-04  
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## 200802\_at 1.08473498 8.288903 3.835921 9.259355e-04  
## 206650\_at -0.50458587 3.786166 -3.835816 9.261715e-04  
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## 208393\_s\_at 0.61703334 6.159502 3.834892 9.282350e-04  
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## 226243\_at 0.92465142 8.493614 3.834367 9.294088e-04  
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## 59697\_at 0.46452053 2.555874 3.832229 9.342079e-04  
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## 232073\_at 0.09790903 2.361444 3.831008 9.369576e-04  
## 218974\_at 1.75035333 5.445106 3.831000 9.369756e-04  
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## 1559425\_at -1.89830117 4.654763 -3.829406 9.405804e-04  
## AFFX-CreX-5\_at 0.79870153 13.699164 3.829388 9.406218e-04  
## 208675\_s\_at 0.93273567 9.437315 3.829258 9.409169e-04  
## 227463\_at 0.83650865 2.878653 3.828733 9.421053e-04  
## 203516\_at 1.08967072 3.572057 3.828649 9.422961e-04  
## 244299\_at 0.04791439 2.351325 3.828647 9.423003e-04  
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## 1555826\_at 1.32863376 3.388492 3.828284 9.431253e-04  
## 221633\_at 0.19511955 2.451346 3.828159 9.434089e-04  
## 217967\_s\_at 1.54478467 6.551461 3.828043 9.436739e-04  
## AFFX-HUMGAPDH/M33197\_5\_at 1.27195340 11.908613 3.827705 9.444418e-04  
## 204183\_s\_at -1.46318923 5.310091 -3.827671 9.445185e-04  
## 219029\_at -0.82834271 6.327786 -3.827621 9.446334e-04  
## 224039\_at 0.09723919 2.400190 3.827358 9.452314e-04  
## 218370\_s\_at -0.97653071 6.779622 -3.827090 9.458423e-04  
## 220814\_at 0.22089605 2.390648 3.826888 9.463026e-04  
## 1561938\_at 0.03661231 2.348632 3.826434 9.473360e-04  
## 226062\_x\_at -1.50575095 8.055818 -3.826429 9.473477e-04  
## 240268\_at 0.21376002 2.386470 3.826418 9.473729e-04  
## 218318\_s\_at -1.23911233 5.445993 -3.826360 9.475051e-04  
## 219246\_s\_at 0.46634310 4.972896 3.825842 9.486885e-04  
## 219281\_at 0.99245353 5.839700 3.824909 9.508221e-04  
## 239442\_at -1.27845969 4.045485 -3.824457 9.518582e-04  
## 216166\_at -2.27056761 4.137306 -3.824077 9.527291e-04  
## 57539\_at -0.71465851 6.640389 -3.824074 9.527361e-04  
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## 233069\_at 0.01214222 2.345374 3.821744 9.580953e-04  
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## 217886\_at -0.68486307 8.034685 -3.820671 9.605758e-04  
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## 223158\_s\_at 1.50897972 6.102723 3.820415 9.611664e-04  
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## 239070\_at -1.64515559 4.104770 -3.814877 9.740694e-04  
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## 1564190\_x\_at -0.43454471 2.702454 -3.809799 9.860485e-04  
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## 225377\_at -0.70658500 6.694262 -3.808237 9.897639e-04  
## 221870\_at -0.98866410 4.000385 -3.807980 9.903772e-04  
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## 236526\_x\_at -0.79657850 4.017326 -3.807218 9.921945e-04  
## 217837\_s\_at 1.08407883 7.204406 3.807205 9.922258e-04  
## 225158\_at -0.93489707 6.414363 -3.807137 9.923872e-04  
## AFFX-DapX-3\_at 2.36720372 10.199161 3.806446 9.940399e-04  
## AFFX-r2-Bs-dap-3\_at 2.30490109 10.497435 3.805898 9.953525e-04  
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## 209102\_s\_at 0.77190391 8.029144 3.802975 1.002380e-03  
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## 202112\_at 1.46574658 7.151117 3.802852 1.002678e-03  
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## 236202\_at -1.01530554 3.823786 -3.724019 1.211919e-03  
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## 211730\_s\_at 1.19165476 9.271238 3.565840 1.770130e-03  
## 230160\_x\_at 0.34926467 3.354394 3.565723 1.770622e-03  
## 230305\_at -0.43352378 2.745255 -3.565519 1.771483e-03  
## 234001\_s\_at -0.73226324 4.891824 -3.565454 1.771761e-03  
## 218467\_at 0.59491609 10.230638 3.564844 1.774343e-03  
## 223159\_s\_at 1.30307552 4.717640 3.564756 1.774716e-03  
## 211700\_s\_at 0.41860257 3.126919 3.564414 1.776167e-03  
## 214664\_at -0.16432139 2.470973 -3.564195 1.777094e-03  
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## 202132\_at -1.13670457 3.892041 -3.563515 1.779981e-03  
## 1563970\_at 0.12117978 2.372222 3.563435 1.780322e-03  
## 233010\_at 0.24129310 2.483044 3.563275 1.781003e-03  
## 211043\_s\_at 1.54498349 6.436300 3.563225 1.781215e-03  
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## 207641\_at -1.37920178 5.476004 -3.561513 1.788511e-03  
## 227462\_at -2.32432277 8.045542 -3.561303 1.789409e-03  
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## 235989\_at 0.28412894 3.033814 3.560290 1.793741e-03  
## 1569202\_x\_at 1.17879968 4.372460 3.560019 1.794900e-03  
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## 211328\_x\_at 0.49620097 3.998115 3.559477 1.797227e-03  
## 209387\_s\_at -1.77157219 4.440674 -3.559412 1.797505e-03  
## 206463\_s\_at -0.27927153 2.527634 -3.559139 1.798675e-03  
## 236179\_at -1.12012239 3.500383 -3.558974 1.799386e-03  
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## 1560617\_at 0.28737856 2.404925 3.553483 1.823125e-03  
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## 237794\_at 0.56035055 2.475428 3.549540 1.840364e-03  
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## 208339\_at 0.15222653 2.372879 3.549033 1.842589e-03  
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## 241579\_at 0.95581478 2.552717 3.509412 2.025139e-03  
## 219842\_at -0.51438647 2.923102 -3.508942 2.027404e-03  
## 1562215\_at 0.05396559 2.352247 3.508822 2.027982e-03  
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## 241111\_at 0.01564562 2.344264 3.505722 2.043017e-03  
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## 220315\_at -0.16971069 2.640424 -3.415394 2.532224e-03  
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## 1557731\_at 0.34717646 2.424743 3.413316 2.544732e-03  
## 224321\_at 2.18565121 4.803754 3.413262 2.545060e-03  
## 220134\_x\_at 0.80255388 4.819331 3.412892 2.547292e-03  
## 1563115\_at 0.36947613 2.418309 3.412597 2.549075e-03  
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## 214613\_at 0.03323004 2.359191 3.367348 2.837375e-03  
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## 1563460\_at -1.14010552 3.023307 -3.361301 2.878242e-03  
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## 234537\_at 0.13386013 2.368892 3.320280 3.170998e-03  
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## 1555065\_x\_at 1.190281e-02 -3.6429489379  
## 221848\_at 1.191246e-02 -3.6438165963  
## [ reached 'max' / getOption("max.print") -- omitted 38009 rows ]

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head(topTab\_MCLvsSMZL)

## logFC AveExpr t P.Value adj.P.Val B  
## 234795\_at 1.7552060 3.072877 342.1951 9.586528e-42 5.241434e-37 69.98470  
## 226966\_at 0.9819723 2.845276 263.5415 2.664004e-39 7.282721e-35 68.61628  
## 1564816\_at 0.7977022 2.672276 257.6845 4.323408e-39 7.879411e-35 68.47162  
## 219879\_s\_at 0.6315161 2.603135 202.6215 7.672441e-37 1.048727e-32 66.61485  
## 204104\_at 0.6033442 4.412826 195.0970 1.733580e-36 1.895670e-32 66.26770  
## 242997\_at 0.5389393 2.580347 170.8900 3.006769e-35 2.739918e-31 64.92808

list(topTab\_MCLvsSMZL)

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## logFC AveExpr t P.Value  
## 234795\_at 1.75520604 3.072877 342.195116 9.586528e-42  
## 226966\_at 0.98197234 2.845276 263.541528 2.664004e-39  
## 1564816\_at 0.79770216 2.672276 257.684525 4.323408e-39  
## 219879\_s\_at 0.63151608 2.603135 202.621516 7.672441e-37  
## 204104\_at 0.60334418 4.412826 195.096959 1.733580e-36  
## 242997\_at 0.53893934 2.580347 170.889965 3.006769e-35  
## 244701\_at 0.69365926 2.649581 167.327739 4.732836e-35  
## 1555248\_a\_at 0.49802239 2.566917 160.930739 1.095673e-34  
## 210864\_x\_at 1.50957937 2.975538 151.317432 4.127509e-34  
## 209812\_x\_at 0.58248426 2.584178 147.069626 7.619784e-34  
## 206657\_s\_at 0.44517466 2.555775 143.486398 1.295922e-33  
## 215822\_x\_at 0.42361957 2.517347 123.103085 3.507151e-32  
## 205271\_s\_at 1.31572587 2.912797 120.966049 5.112508e-32  
## 211410\_x\_at 0.40875237 2.511391 119.357362 6.819617e-32  
## 211866\_x\_at 0.36709098 2.492797 118.702286 7.677065e-32  
## 1569679\_at 0.88334627 3.367792 113.528257 2.003010e-31  
## 62987\_r\_at 4.15315796 4.133809 109.764722 4.137105e-31  
## 38707\_r\_at 3.48404202 4.256011 109.123236 4.693121e-31  
## 233486\_at 0.41189490 2.513248 101.261560 2.344121e-30  
## 209837\_at 1.92392866 3.889694 99.331787 3.545692e-30  
## 217953\_at -1.31599414 3.121801 -96.552699 6.527157e-30  
## 202507\_s\_at 0.67715838 2.676917 95.306350 8.630905e-30  
## 1555266\_a\_at 0.28692936 2.459595 92.052439 1.821487e-29  
## 215348\_at 0.28068834 2.532878 90.763190 2.466686e-29  
## 216631\_s\_at 1.23845546 2.918306 90.594449 2.567362e-29  
## 215916\_at -0.27894497 2.508138 -89.347796 3.458175e-29  
## 1569909\_at 0.29066656 2.472141 86.615242 6.742007e-29  
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## 227272\_at -1.29751143 3.244477 -10.505406 6.121939e-10  
## 222211\_x\_at -0.65941873 2.911843 -10.504981 6.126444e-10  
## 208749\_x\_at 2.23799815 7.799292 10.504527 6.131257e-10  
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## 215874\_at -2.29671339 3.949926 -10.499001 6.190179e-10  
## 210226\_at 0.92909398 2.913171 10.498355 6.197106e-10  
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## 217277\_at -0.14073091 2.439122 -10.491565 6.270389e-10  
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## 242776\_at -1.87519252 3.737432 -10.487637 6.313195e-10  
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## 203989\_x\_at -2.81545286 6.905255 -10.480918 6.387126e-10  
## 1557751\_at -3.29357199 4.638178 -10.480266 6.394349e-10  
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## 236625\_at -2.01611784 5.190657 -10.463090 6.587670e-10  
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## 205511\_at -3.04794897 4.730450 -10.457972 6.646445e-10  
## 236057\_at 0.54419944 2.692496 10.455188 6.678641e-10  
## 1558688\_at 3.18859513 5.577806 10.453643 6.696586e-10  
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## 217604\_at -1.94764262 5.434267 -10.392655 7.446158e-10  
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## 217806\_s\_at 2.32573014 6.542634 10.390251 7.477427e-10  
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## 234954\_at 2.42004601 5.222637 8.509538 2.457775e-08  
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## 213513\_x\_at 0.92309000 11.199345 7.213454 3.558271e-07  
## 238317\_x\_at -3.64401356 4.982901 -7.213014 3.561642e-07  
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## 1560089\_at -1.99142038 3.716699 -7.212254 3.567463e-07  
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## 234620\_at -0.65004633 2.812896 -7.209484 3.588764e-07  
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## 234481\_at 0.28310964 2.482700 7.207386 3.604983e-07  
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## 228789\_at -1.01286020 3.372883 -7.202822 3.640529e-07  
## 231411\_at 1.45170348 3.604663 7.202327 3.644405e-07  
## 1569291\_at -1.42793496 3.178383 -7.200859 3.655926e-07  
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## 204867\_at 2.59971134 4.871447 7.194324 3.707673e-07  
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## 217786\_at 2.31884732 5.918995 7.187783 3.760227e-07  
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## 50277\_at 2.13178294 8.603660 7.185644 3.777577e-07  
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## 226670\_s\_at -2.35359044 5.415594 -7.183347 3.796304e-07  
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## 218479\_s\_at -0.71141982 3.124550 -7.167255 3.930182e-07  
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## 212238\_at 0.87344041 5.748510 5.360736 2.362253e-05  
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## 221813\_at 0.29124369 6.156719 3.694891 1.299688e-03  
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## 236942\_at 0.19546454 2.415019 3.689658 1.316107e-03  
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## 226966\_at -1.963945 2.845276 -263.5415 2.664004e-39 7.282721e-35 68.61628  
## 1564816\_at -1.595404 2.672276 -257.6845 4.323408e-39 7.879411e-35 68.47162  
## 219879\_s\_at -1.263032 2.603135 -202.6215 7.672441e-37 1.048727e-32 66.61485  
## 204104\_at -1.206688 4.412826 -195.0970 1.733580e-36 1.895670e-32 66.26770  
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## 219879\_s\_at -1.26303216 2.603135 -202.621516 7.672441e-37  
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## 242997\_at -1.07787868 2.580347 -170.889965 3.006769e-35  
## 244701\_at -1.38731852 2.649581 -167.327739 4.732836e-35  
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## 210864\_x\_at -3.01915874 2.975538 -151.317432 4.127509e-34  
## 209812\_x\_at -1.16496852 2.584178 -147.069626 7.619784e-34  
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## 215822\_x\_at -0.84723915 2.517347 -123.103085 3.507151e-32  
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## 240784\_at 0.67810457 2.816927 39.593906 1.279773e-21  
## 232203\_at 1.26392732 2.739476 39.483465 1.358114e-21  
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## 234327\_at -0.90161789 2.561236 -32.349462 9.296720e-20  
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## 212617\_at 0.21538411 2.412365 31.940066 1.216753e-19  
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## 215996\_at 2.05737367 3.013039 24.941691 2.193186e-17  
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## 239207\_at 2.25604151 3.942471 6.390788 2.178545e-06  
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## 1558293\_at 0.27880995 2.441898 4.151142 4.324416e-04  
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## 231454\_at -0.11646541 2.448521 -4.150583 4.330269e-04  
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## 219689\_at 2.38355151 3.749688 4.144239 4.397252e-04  
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## 208752\_x\_at -1.69337941 11.290962 -3.700810 1.281358e-03  
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## 229677\_at -0.72274243 3.227303 -3.510756 2.018665e-03  
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## 226231\_at 8.347328e-03 -3.2950319247  
## 239623\_at 8.348345e-03 -3.2952096394  
## 214531\_s\_at 8.348427e-03 -3.2952778856  
## 220765\_s\_at 8.351654e-03 -3.2957140352  
## 235474\_at 8.383758e-03 -3.2995492056  
## 220067\_at 8.383758e-03 -3.2995783170  
## 200013\_at 8.392840e-03 -3.3006942554  
## 217848\_s\_at 8.393465e-03 -3.3008256044  
## 234245\_at 8.399024e-03 -3.3015308987  
## 227053\_at 8.414525e-03 -3.3033901472  
## 219644\_at 8.423019e-03 -3.3044397360  
## 212877\_at 8.423019e-03 -3.3044926922  
## 219383\_at 8.426064e-03 -3.3049042568  
## 222488\_s\_at 8.428645e-03 -3.3052619564  
## 228914\_at 8.431137e-03 -3.3056092659  
## 242962\_at 8.433870e-03 -3.3059843974  
## 239307\_at 8.435270e-03 -3.3062050904  
## 1557077\_a\_at 8.447906e-03 -3.3077253652  
## 215436\_at 8.448580e-03 -3.3078618117  
## 242655\_at 8.457991e-03 -3.3090075936  
## 219749\_at 8.468904e-03 -3.3103251545  
## 216918\_s\_at 8.469267e-03 -3.3104256668  
## 204641\_at 8.479964e-03 -3.3117166963  
## 203643\_at 8.482585e-03 -3.3120770352  
## 221960\_s\_at 8.484708e-03 -3.3123799783  
## [ reached 'max' / getOption("max.print") -- omitted 38009 rows ]

1. Anotación de resultados

annotatedTopTable <- function(topTab, anotPackage)  
{  
 topTab <- cbind(PROBEID=rownames(topTab), topTab)  
 myProbes <- rownames(topTab)  
 thePackage <- eval(parse(text = anotPackage))  
 geneAnots <- select(thePackage, myProbes, c("SYMBOL", "ENTREZID", "GENENAME"))  
 annotatedTopTab<- merge(x=geneAnots, y=topTab, by.x="PROBEID", by.y="PROBEID")  
return(annotatedTopTab)  
}

require(hgu133plus2.db)

## Loading required package: hgu133plus2.db

## Loading required package: AnnotationDbi

## Loading required package: stats4

## Loading required package: IRanges

## Loading required package: S4Vectors

##   
## Attaching package: 'S4Vectors'

## The following object is masked from 'package:base':  
##   
## expand.grid

##   
## Attaching package: 'IRanges'

## The following object is masked from 'package:grDevices':  
##   
## windows

## Loading required package: org.Hs.eg.db

##

##

hgu133plus2()

## Quality control information for hgu133plus2:  
##   
##   
## This package has the following mappings:  
##   
## hgu133plus2ACCNUM has 54675 mapped keys (of 54675 keys)  
## hgu133plus2ALIAS2PROBE has 63786 mapped keys (of 124367 keys)  
## hgu133plus2CHR has 42347 mapped keys (of 54675 keys)  
## hgu133plus2CHRLENGTHS has 93 mapped keys (of 595 keys)  
## hgu133plus2CHRLOC has 41163 mapped keys (of 54675 keys)  
## hgu133plus2CHRLOCEND has 41163 mapped keys (of 54675 keys)  
## hgu133plus2ENSEMBL has 40294 mapped keys (of 54675 keys)  
## hgu133plus2ENSEMBL2PROBE has 20848 mapped keys (of 29048 keys)  
## hgu133plus2ENTREZID has 42358 mapped keys (of 54675 keys)  
## hgu133plus2ENZYME has 4864 mapped keys (of 54675 keys)  
## hgu133plus2ENZYME2PROBE has 957 mapped keys (of 975 keys)  
## hgu133plus2GENENAME has 42358 mapped keys (of 54675 keys)  
## hgu133plus2GO has 36835 mapped keys (of 54675 keys)  
## hgu133plus2GO2ALLPROBES has 20109 mapped keys (of 22816 keys)  
## hgu133plus2GO2PROBE has 15752 mapped keys (of 18130 keys)  
## hgu133plus2MAP has 41183 mapped keys (of 54675 keys)  
## hgu133plus2OMIM has 30741 mapped keys (of 54675 keys)  
## hgu133plus2PATH has 12099 mapped keys (of 54675 keys)  
## hgu133plus2PATH2PROBE has 229 mapped keys (of 229 keys)  
## hgu133plus2PMID has 41345 mapped keys (of 54675 keys)  
## hgu133plus2PMID2PROBE has 457034 mapped keys (of 632694 keys)  
## hgu133plus2REFSEQ has 42079 mapped keys (of 54675 keys)  
## hgu133plus2SYMBOL has 42358 mapped keys (of 54675 keys)  
## hgu133plus2UNIGENE has 42088 mapped keys (of 54675 keys)  
## hgu133plus2UNIPROT has 37664 mapped keys (of 54675 keys)  
##   
##   
## Additional Information about this package:  
##   
## DB schema: HUMANCHIP\_DB  
## DB schema version: 2.1  
## Organism: Homo sapiens  
## Date for NCBI data: 2015-Sep27  
## Date for GO data: 20150919  
## Date for KEGG data: 2011-Mar15  
## Date for Golden Path data: 2010-Mar22  
## Date for Ensembl data: 2015-Jul16

topAnnotated\_FLvsMCL <- annotatedTopTable(topTab\_FLvsMCL,  
 anotPackage="hgu133plus2.db")

## 'select()' returned 1:many mapping between keys and columns

topAnnotated\_FLvsSMZL <- annotatedTopTable(topTab\_FLvsSMZL,  
 anotPackage="hgu133plus2.db")

## 'select()' returned 1:many mapping between keys and columns

topAnnotated\_MCLvsSMZL <- annotatedTopTable(topTab\_MCLvsSMZL,  
 anotPackage="hgu133plus2.db")

## 'select()' returned 1:many mapping between keys and columns

topAnnotated\_INT <- annotatedTopTable(topTab\_INT,  
 anotPackage="hgu133plus2.db")

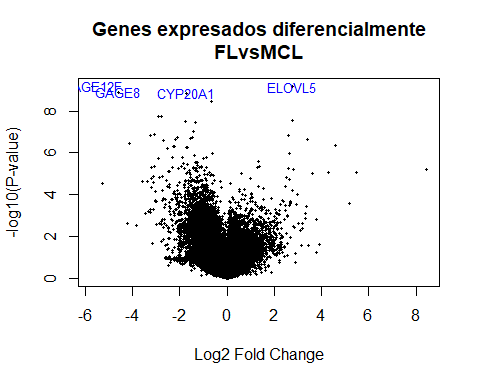
## 'select()' returned 1:many mapping between keys and columns

Visualización de la expresión diferencial

library(hgu133plus2.db)  
geneSymbols <- select(hgu133plus2.db, rownames(fit.main), c("SYMBOL"))

## 'select()' returned 1:many mapping between keys and columns

SYMBOLS<- geneSymbols$SYMBOL  
volcanoplot(fit.main, coef=1, highlight=4, names=SYMBOLS,   
 main=paste("Genes expresados diferencialmente", colnames(cont.matrix)[1], sep="\n"))



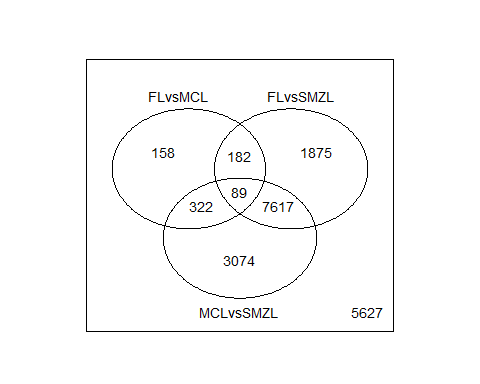
1. Multiples comparaciones

library(limma)  
res<-decideTests(fit.main, method="separate", adjust.method="fdr", p.value=0.1, lfc=1)

sum.res.rows<-apply(abs(res),1,sum)  
res.selected<-res[sum.res.rows!=0,]   
print(summary(res))

## FLvsMCL FLvsSMZL MCLvsSMZL INT  
## Down 637 6276 5811 9015  
## NotSig 53924 44912 43573 36920  
## Up 114 3487 5291 8740

vennDiagram (res.selected[,1:3], cex=0.9)



1. Análisis de significancia biológica

listOfTables <- list(FLvsMCL = topTab\_FLvsMCL,   
 FLvsSMZL = topTab\_FLvsSMZL,  
 MCLvsSMZL = topTab\_MCLvsSMZL,  
 INT = topTab\_INT)  
listOfSelected <- list()  
for (i in 1:length(listOfTables)){  
topTab <- listOfTables[[i]]  
whichGenes<-topTab["adj.P.Val"]<0.15  
selectedIDs <- rownames(topTab)[whichGenes]  
EntrezIDs<- select(hgu133plus2.db, selectedIDs, c("ENTREZID"))  
EntrezIDs <- EntrezIDs$ENTREZID  
listOfSelected[[i]] <- EntrezIDs  
names(listOfSelected)[i] <- names(listOfTables)[i]  
}

## 'select()' returned 1:many mapping between keys and columns  
## 'select()' returned 1:many mapping between keys and columns  
## 'select()' returned 1:many mapping between keys and columns  
## 'select()' returned 1:many mapping between keys and columns

sapply(listOfSelected, length)

## FLvsMCL FLvsSMZL MCLvsSMZL INT   
## 2604 36568 29023 29023

library(magrittr)  
library(clusterProfiler)

##

## clusterProfiler v3.16.0 For help: https://guangchuangyu.github.io/software/clusterProfiler  
##   
## If you use clusterProfiler in published research, please cite:  
## Guangchuang Yu, Li-Gen Wang, Yanyan Han, Qing-Yu He. clusterProfiler: an R package for comparing biological themes among gene clusters. OMICS: A Journal of Integrative Biology. 2012, 16(5):284-287.

##   
## Attaching package: 'clusterProfiler'

## The following object is masked from 'package:AnnotationDbi':  
##   
## select

## The following object is masked from 'package:IRanges':  
##   
## slice

## The following object is masked from 'package:S4Vectors':  
##   
## rename

## The following object is masked from 'package:stats':  
##   
## filter

comparClus <- compareCluster(geneCluster = listOfSelected, fun = "enrichKEGG")  
head(comparClus)

## Cluster ID Description GeneRatio BgRatio pvalue  
## 1 FLvsMCL hsa03013 RNA transport 40/828 180/8039 1.741066e-06  
## 2 FLvsMCL hsa03440 Homologous recombination 14/828 41/8039 3.339964e-05  
## 3 FLvsMCL hsa03410 Base excision repair 12/828 33/8039 6.016208e-05  
## 4 FLvsMCL hsa04218 Cellular senescence 32/828 160/8039 1.625255e-04  
## 5 FLvsMCL hsa04110 Cell cycle 26/828 124/8039 3.016791e-04  
## 6 FLvsMCL hsa03030 DNA replication 11/828 36/8039 6.915382e-04  
## p.adjust qvalue  
## 1 0.0005466947 0.0005058255  
## 2 0.0052437431 0.0048517369  
## 3 0.0062969644 0.0058262225  
## 4 0.0127582511 0.0118044831  
## 5 0.0189454482 0.0175291442  
## 6 0.0361904970 0.0334850056  
## geneID  
## 1 11102/84321/59343/10556/50628/1977/4928/5905/8894/9939/55706/9470/54960/84305/1981/3837/10762/8086/51095/23279/7341/1983/8891/6396/1982/9631/1973/10419/79902/8087/9818/10799/10248/65110/1978/8668/9972/5903/79833/5976  
## 2 79728/146956/83990/5425/5890/4361/11073/5892/5888/8438/10714/672/472/7516  
## 3 5427/5423/3980/5425/252969/7374/10038/3146/27301/10714/56655/54107  
## 4 595/4088/1432/8945/11200/1870/6009/5296/5481/5594/23291/993/7419/4772/5608/4776/1111/1021/208/91750/2305/4361/5530/5606/54822/890/5928/1978/2308/472/5894/801  
## 5 595/4088/64682/8318/5000/4998/11200/9700/1870/51434/4085/993/10274/3066/10971/1111/5591/1021/4999/4171/7272/4173/6502/9126/890/472  
## 6 5427/5985/5425/4171/4173/5422/79621/10714/56655/10535/54107  
## Count  
## 1 40  
## 2 14  
## 3 12  
## 4 32  
## 5 26  
## 6 11

grafcomp<- dotplot(comparClus)  
grafcomp

