

# Class 14

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## Background

Today we will complete an RNASeq analysis from counts to pathways.

We will work with data on differential analysis of lung fibroblasts in response to loss of the developmental transcription factor HOXA1.

## Data Import

```
counts <- read.csv("GSE37704_featurecounts.csv", row.names = 1)
metadata <- read.csv("GSE37704_metadata.csv")
```

A wee peak

```
head(metadata)
```

	id	condition
1	SRR493366	control_sirna
2	SRR493367	control_sirna
3	SRR493368	control_sirna
4	SRR493369	hoxa1_kd
5	SRR493370	hoxa1_kd
6	SRR493371	hoxa1_kd

Check correspondence of the columns of `counts` and the rows of `metadata`

```
colnames(counts)
```

```
[1] "length"      "SRR493366" "SRR493367" "SRR493368" "SRR493369" "SRR493370"
[7] "SRR493371"
```

```
metadata$id
```

```
[1] "SRR493366" "SRR493367" "SRR493368" "SRR493369" "SRR493370" "SRR493371"
```

We need to remove the first “length” column from our counts

```
countData <- counts[,-1]
colnames(countData) == metadata$id
```

```
[1] TRUE TRUE TRUE TRUE TRUE TRUE
```

Q. How many genes do we have?

```
nrow(countData)
```

```
[1] 19808
```

## DESeq Setup

```
library(DESeq2)
```

```
dds <- DESeqDataSetFromMatrix(countData = countData,
                              colData = metadata,
                              design = ~condition)
```

Warning in DESeqDataSet(se, design = design, ignoreRank): some variables in design formula are characters, converting to factors

## DESeq Analysis

```
dds <- DESeq(dds)
```

estimating size factors

estimating dispersions

gene-wise dispersion estimates

mean-dispersion relationship

final dispersion estimates

fitting model and testing

```
res <- results(dds)
```

And a wee peak:

```
head(res)
```

log2 fold change (MLE): condition hoxa1 kd vs control sirna

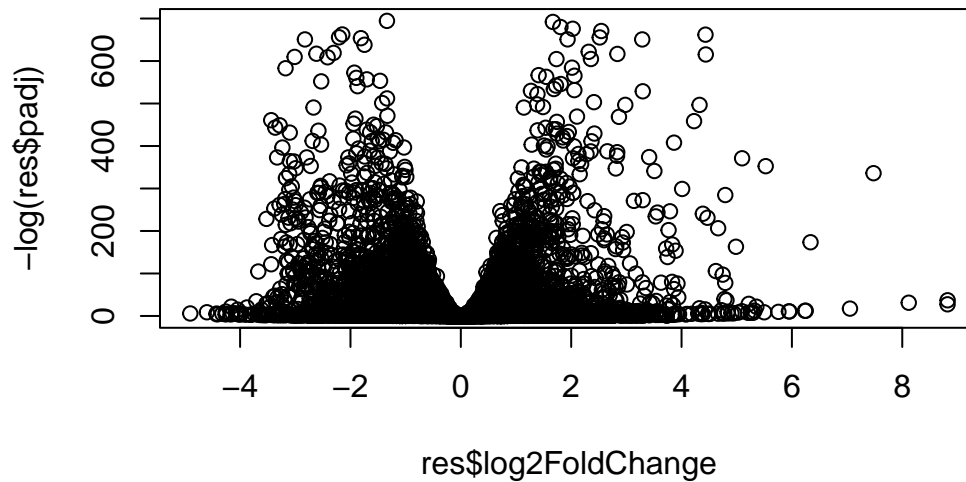
Wald test p-value: condition hoxa1 kd vs control sirna

DataFrame with 6 rows and 6 columns

	baseMean	log2FoldChange	lfcSE	stat	pvalue
	<numeric>	<numeric>	<numeric>	<numeric>	<numeric>
ENSG00000186092	0.0000	NA	NA	NA	NA
ENSG00000279928	0.0000	NA	NA	NA	NA
ENSG00000279457	29.9136	0.179257	0.324822	0.551863	0.58104205
ENSG00000278566	0.0000	NA	NA	NA	NA
ENSG00000273547	0.0000	NA	NA	NA	NA
ENSG00000187634	183.2296	0.426457	0.140266	3.040350	0.00236304
	padj				
	<numeric>				
ENSG00000186092	NA				
ENSG00000279928	NA				
ENSG00000279457	0.68707978				
ENSG00000278566	NA				
ENSG00000273547	NA				
ENSG00000187634	0.00516278				

## Result visualization

```
plot(res$log2FoldChange, -log(res$padj))
```



Add some color

```
mycols <- rep("gray", nrow(res))
mycols[abs(res$log2FoldChange) > 2] <- "red"
res$padj
```

[1]	NA	NA	6.870798e-01	NA	NA
[6]	5.162780e-03	1.767405e-35	1.135361e-07	9.189880e-01	4.038172e-01
[11]	1.306799e-24	2.377101e-02	4.224207e-16	NA	2.620293e-01
[16]	NA	9.263552e-01	5.093091e-01	7.096740e-15	4.506618e-08
[21]	7.831890e-01	4.934895e-11	2.241538e-02	2.531300e-17	6.034169e-01
[26]	8.440015e-03	8.051563e-02	9.570854e-01	4.758183e-02	6.458779e-34
[31]	2.112304e-01	7.233194e-15	1.821069e-01	9.787947e-01	NA
[36]	4.593889e-01	8.208258e-01	3.407502e-15	1.624522e-15	1.453461e-01
[41]	4.604894e-01	NA	3.217975e-02	3.628198e-08	9.804102e-01
[46]	5.204827e-01	3.808280e-52	5.387470e-01	2.047387e-05	8.807070e-01
[51]	3.469966e-01	4.057274e-01	7.342469e-01	NA	NA

[56]	1.334982e-01	3.266467e-03	2.607059e-33	8.223975e-01	2.274243e-01
[61]	9.541892e-02	1.462157e-01	3.824752e-01	NA	3.134201e-03
[66]	1.702813e-40	NA	4.185516e-01	NA	7.786202e-01
[71]	4.986978e-01	1.467843e-01	6.231008e-09	4.122543e-01	5.957256e-01
[76]	6.576724e-01	5.807979e-01	6.567136e-09	3.971421e-07	1.067803e-01
[81]	5.833344e-01	9.526032e-01	3.153415e-09	6.792663e-02	1.878327e-01
[86]	3.869603e-01	6.621840e-02	9.889161e-15	NA	9.607843e-01
[91]	4.257034e-08	4.199498e-02	6.820140e-01	5.396295e-06	1.670917e-17
[96]	1.311798e-09	NA	1.895190e-01	2.063000e-34	4.867127e-01
[101]	1.324864e-02	3.191167e-13	5.333184e-01	4.025694e-37	2.841786e-01
[106]	NA	1.539513e-01	4.297198e-11	7.399077e-12	7.745598e-01
[111]	5.693881e-32	2.373404e-302	NA	NA	5.436087e-01
[116]	3.383025e-08	2.126355e-15	5.236400e-03	6.689790e-01	3.813590e-01
[121]	6.008099e-12	9.953218e-03	NA	4.903184e-02	5.304295e-18
[126]	2.848786e-02	NA	5.609334e-44	2.093054e-03	1.270972e-02
[131]	8.948933e-01	9.993888e-01	8.196012e-01	1.090649e-02	1.060117e-01
[136]	3.762325e-01	NA	1.186661e-05	NA	4.707937e-01
[141]	1.089642e-117	4.508842e-02	8.488222e-01	5.962498e-01	8.643065e-03
[146]	1.819199e-01	4.089297e-05	8.672361e-01	4.012259e-01	8.057864e-03
[151]	1.020875e-05	1.658641e-07	NA	1.541345e-02	1.402273e-11
[156]	2.234007e-01	6.494492e-01	2.524614e-01	6.129245e-02	1.509684e-05
[161]	1.506150e-04	1.571020e-01	3.911529e-09	7.690788e-05	2.748500e-31
[166]	NA	NA	NA	NA	NA
[171]	NA	4.836419e-01	NA	NA	NA
[176]	NA	NA	NA	NA	NA
[181]	NA	NA	9.176275e-01	NA	NA
[186]	NA	NA	NA	NA	NA
[191]	NA	NA	NA	3.545925e-03	1.089325e-05
[196]	9.605156e-07	1.076001e-38	8.952305e-01	4.489920e-84	NA
[201]	NA	NA	3.062120e-01	1.515112e-13	7.198792e-01
[206]	6.050343e-33	NA	4.150425e-05	4.571542e-01	NA
[211]	3.942158e-02	8.313343e-01	1.587461e-01	4.025242e-01	NA
[216]	1.222574e-06	NA	3.774039e-01	8.047678e-01	3.197945e-21
[221]	8.281047e-01	4.452376e-02	8.501475e-01	3.488746e-36	NA
[226]	3.372393e-01	NA	1.171270e-01	NA	NA
[231]	3.124460e-05	4.245990e-61	2.885848e-03	1.043935e-27	NA
[236]	3.072383e-01	NA	NA	NA	NA
[241]	9.780282e-43	2.743664e-05	7.769109e-01	NA	NA
[246]	NA	NA	NA	1.353331e-02	9.726082e-01
[251]	9.518921e-01	5.062416e-23	3.238720e-16	8.973905e-01	8.458354e-01
[256]	5.188330e-08	1.601698e-08	1.029824e-01	NA	8.861223e-04
[261]	NA	2.009433e-04	NA	8.401834e-01	NA
[266]	NA	7.840032e-01	NA	NA	NA

[271]	NA	NA	4.097108e-05	5.176789e-01	6.074595e-01
[276]	3.547765e-07	2.050576e-07	1.372384e-05	1.608212e-08	1.098044e-17
[281]	4.576042e-02	5.704506e-35	1.339877e-06	8.981343e-01	2.964036e-02
[286]	3.569868e-02	4.049921e-01	8.963700e-01	1.032604e-28	NA
[291]	NA	9.571937e-01	2.326982e-01	9.599702e-10	NA
[296]	NA	NA	NA	7.227674e-02	NA
[301]	NA	1.884753e-08	2.572121e-03	1.527441e-01	2.357131e-80
[306]	1.358551e-02	2.026779e-06	8.828381e-01	1.541760e-02	4.565115e-34
[311]	2.381283e-01	2.835519e-32	1.048824e-16	1.414059e-02	1.732301e-51
[316]	8.060842e-03	7.913844e-10	1.189581e-10	NA	1.759094e-37
[321]	4.796031e-05	6.334318e-01	NA	NA	8.228295e-01
[326]	7.379409e-21	9.914949e-06	2.765940e-04	NA	9.324399e-15
[331]	4.022588e-11	7.245581e-04	5.026173e-19	4.136579e-03	1.263802e-01
[336]	1.436257e-30	7.122820e-01	7.648857e-06	5.246546e-01	1.030703e-08
[341]	2.210253e-15	NA	9.964276e-01	2.738856e-05	8.140243e-03
[346]	1.435438e-19	1.031054e-03	4.586599e-25	NA	NA
[351]	6.726980e-01	NA	2.717219e-01	4.997937e-01	NA
[356]	5.341169e-16	1.455920e-02	5.625290e-01	6.552247e-01	NA
[361]	NA	NA	6.718480e-20	6.100376e-20	4.806696e-04
[366]	1.403981e-04	2.263975e-02	5.419298e-08	NA	4.723432e-01
[371]	1.117719e-02	1.532931e-10	NA	NA	5.303725e-02
[376]	5.716467e-12	NA	7.480172e-01	1.073213e-36	1.177801e-04
[381]	9.176275e-01	6.309806e-03	1.422852e-01	NA	7.666153e-03
[386]	1.143308e-14	4.702703e-08	NA	2.030189e-01	7.034376e-01
[391]	7.717468e-02	6.786195e-15	NA	4.337044e-03	5.715495e-03
[396]	NA	5.457432e-04	3.158291e-03	7.079010e-01	4.028741e-07
[401]	2.903278e-01	4.075029e-01	1.728069e-03	4.857642e-08	6.671364e-01
[406]	1.542525e-01	1.256728e-02	4.481451e-01	3.932445e-06	5.137494e-14
[411]	5.924896e-01	2.956346e-26	1.043116e-05	2.430851e-02	2.326982e-01
[416]	3.203875e-19	8.094690e-01	6.068859e-01	8.262060e-07	1.720491e-04
[421]	6.168722e-02	1.182735e-05	4.902999e-02	4.981586e-01	1.678743e-07
[426]	3.386710e-01	5.104912e-01	1.935635e-09	5.999562e-44	5.362306e-02
[431]	6.521536e-94	6.138563e-01	8.737522e-04	2.285570e-01	2.398077e-12
[436]	8.161337e-08	7.799195e-01	9.210255e-02	5.912819e-01	7.597123e-02
[441]	2.790477e-53	6.624370e-01	NA	1.592990e-02	1.299787e-54
[446]	9.095449e-01	2.519328e-02	4.864981e-13	NA	NA
[451]	1.007995e-01	5.512451e-03	2.017460e-33	5.853620e-100	9.633886e-37
[456]	2.151956e-72	4.700855e-02	6.184668e-01	8.812577e-01	1.769143e-04
[461]	2.168302e-05	1.262075e-18	1.114390e-01	5.887187e-02	1.553550e-01
[466]	9.645463e-01	2.012999e-13	9.130779e-01	8.409605e-01	NA
[471]	NA	1.892837e-02	4.999903e-01	NA	NA
[476]	NA	2.889936e-01	NA	5.482314e-01	9.338780e-02
[481]	8.253192e-02	1.599587e-05	2.642323e-04	1.386911e-18	8.017287e-11

[486]	3.199905e-01	5.313728e-01	3.897513e-04	2.495117e-34	8.091637e-07
[491]	8.934898e-02	1.952739e-01	2.621223e-01	7.114485e-01	7.598578e-04
[496]	8.320686e-01	5.074129e-01	8.346473e-01	1.181473e-02	9.152829e-19
[501]	1.451761e-38	2.959611e-01	3.657898e-03	7.762860e-01	NA
[506]	NA	3.789721e-33	2.647177e-06	6.662398e-03	2.151300e-01
[511]	2.568131e-02	NA	6.362885e-01	4.169346e-115	NA
[516]	7.093589e-02	7.758526e-08	5.283572e-05	8.242467e-17	3.516092e-03
[521]	1.279733e-06	4.809221e-19	9.829455e-01	1.659956e-01	5.489250e-12
[526]	1.408519e-14	NA	NA	3.716079e-02	6.940413e-157
[531]	1.877729e-06	1.623295e-01	5.334566e-01	8.370954e-32	9.093089e-04
[536]	NA	NA	8.709498e-03	9.271919e-01	NA
[541]	2.362381e-05	4.594925e-01	1.266142e-04	9.788830e-20	1.556280e-04
[546]	1.344879e-01	NA	8.904162e-01	9.561975e-01	1.165609e-01
[551]	3.104404e-08	3.712682e-02	3.773170e-01	7.159989e-01	5.600791e-01
[556]	5.996390e-01	9.470830e-01	7.080923e-24	3.904310e-02	3.614993e-01
[561]	1.135479e-02	NA	NA	4.550233e-12	NA
[566]	NA	9.623470e-02	NA	6.599872e-01	1.373054e-03
[571]	9.401989e-01	3.484171e-04	4.517213e-22	NA	1.258874e-33
[576]	3.808511e-01	1.224880e-11	8.107340e-01	8.044122e-01	2.083366e-57
[581]	6.851526e-01	4.884014e-26	7.966918e-01	NA	NA
[586]	4.656603e-03	NA	6.976109e-173	4.809755e-07	3.362103e-09
[591]	5.715817e-01	1.860790e-01	3.713102e-47	6.634480e-01	4.764286e-05
[596]	7.259287e-01	9.401989e-01	1.279586e-07	1.625260e-32	1.270900e-20
[601]	1.272911e-01	4.689621e-10	2.769748e-01	5.675009e-01	8.851223e-01
[606]	9.820334e-03	7.609323e-01	5.321915e-01	2.435051e-99	3.419369e-21
[611]	8.043328e-01	1.960878e-14	5.552358e-03	8.877252e-13	2.914271e-08
[616]	1.050847e-01	1.557781e-17	5.935444e-03	2.300732e-08	4.780853e-01
[621]	8.813824e-01	6.851526e-01	6.861618e-11	5.313005e-01	5.184538e-06
[626]	1.920697e-09	1.573530e-01	9.987419e-06	1.388089e-01	1.026508e-08
[631]	2.516654e-04	1.210335e-03	1.235267e-25	5.641611e-20	NA
[636]	2.677885e-01	NA	3.279238e-02	1.330363e-01	1.746997e-18
[641]	3.796647e-01	1.454669e-01	4.434569e-04	4.131929e-01	NA
[646]	NA	1.958367e-01	5.520955e-01	7.478675e-03	7.590817e-01
[651]	5.229302e-24	NA	NA	NA	NA
[656]	NA	NA	NA	6.046455e-34	2.974064e-01
[661]	9.098639e-01	6.110244e-01	3.078408e-01	NA	2.188949e-01
[666]	1.787218e-05	NA	6.704816e-01	NA	NA
[671]	1.905243e-04	2.220470e-41	NA	6.703076e-15	8.039916e-01
[676]	8.838262e-129	2.739635e-02	9.070246e-01	1.274694e-04	6.802609e-03
[681]	1.045388e-02	5.720654e-01	3.622151e-02	3.104173e-02	2.325294e-20
[686]	3.555718e-01	7.316770e-01	5.513467e-01	NA	6.042234e-37
[691]	1.199004e-01	5.808904e-03	5.681266e-01	2.814114e-02	NA
[696]	4.378418e-02	3.016367e-01	4.123876e-04	3.186971e-03	3.762092e-02

[701]	6.906630e-04	NA	5.734803e-01	1.120753e-58	1.728814e-03
[706]	9.216281e-01	8.854427e-02	6.155632e-06	NA	2.090057e-70
[711]	1.687623e-01	NA	NA	1.866306e-02	2.240629e-11
[716]	2.560264e-01	7.234305e-03	8.345701e-01	NA	NA
[721]	1.643234e-02	4.050591e-02	NA	NA	2.031850e-95
[726]	NA	NA	3.497634e-01	2.398694e-05	1.894567e-66
[731]	9.758981e-03	8.174591e-01	NA	NA	8.344414e-04
[736]	7.862226e-01	4.482228e-01	1.299671e-04	5.245623e-06	9.480886e-01
[741]	NA	4.986978e-01	NA	4.854448e-08	9.365920e-05
[746]	3.146303e-05	NA	NA	7.718828e-21	1.379192e-04
[751]	4.572777e-01	3.623832e-01	NA	2.735776e-03	2.117579e-08
[756]	7.463849e-01	7.428573e-15	2.184051e-35	NA	8.665242e-01
[761]	2.425388e-04	3.781559e-06	1.177423e-16	9.949815e-01	3.300606e-23
[766]	9.231793e-01	1.310165e-12	2.261756e-56	3.481269e-01	NA
[771]	2.265170e-03	3.744809e-20	3.186415e-06	NA	NA
[776]	NA	9.657663e-14	4.416136e-10	2.225202e-48	3.338008e-03
[781]	1.220402e-191	1.165609e-01	2.203373e-111	6.661356e-01	6.332548e-01
[786]	3.818510e-02	5.604240e-02	8.524021e-01	NA	1.537393e-01
[791]	NA	1.113799e-03	3.053103e-17	3.532900e-01	1.607813e-03
[796]	4.479495e-01	NA	NA	NA	9.665600e-10
[801]	3.568748e-02	NA	7.590817e-01	1.596732e-03	6.017292e-01
[806]	5.094685e-01	NA	8.892630e-01	5.371851e-07	3.854868e-02
[811]	5.685479e-06	5.390212e-02	9.902242e-19	3.464489e-08	2.050833e-02
[816]	1.335777e-08	2.273820e-27	1.456188e-02	4.188055e-13	3.614389e-02
[821]	8.258933e-02	5.439421e-30	1.941252e-30	7.902359e-04	2.524391e-04
[826]	9.029451e-01	NA	1.076980e-07	8.311431e-12	4.352123e-02
[831]	2.013529e-62	2.809937e-29	8.171784e-01	9.906372e-07	2.210938e-01
[836]	1.198491e-03	3.912161e-02	8.463784e-05	2.031035e-19	6.048353e-21
[841]	4.727524e-01	2.191378e-05	2.970534e-03	6.592531e-15	NA
[846]	NA	2.383625e-05	3.646665e-02	2.556335e-01	NA
[851]	8.769093e-25	9.872999e-44	1.669878e-06	1.899569e-02	6.859888e-05
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[1871]	1.342160e-05	9.419222e-269	NA	3.625078e-01	9.292295e-01
[1876]	7.399275e-01	7.552654e-08	1.891250e-04	2.322781e-02	6.661356e-01
[1881]	NA	4.322671e-01	NA	8.792168e-12	3.792858e-01
[1886]	8.632667e-01	8.228295e-01	6.895014e-01	4.801465e-03	8.878794e-03
[1891]	3.721709e-17	1.367126e-05	3.642858e-01	NA	4.070987e-05
[1896]	4.588953e-01	1.225697e-04	3.086296e-01	NA	9.314663e-02
[1901]	NA	9.629362e-01	3.774039e-01	1.859691e-01	1.925296e-39
[1906]	4.155350e-11	2.494943e-01	2.321896e-38	2.003003e-01	8.217160e-02
[1911]	1.410220e-06	2.192943e-01	1.772145e-56	3.604335e-03	6.700307e-02
[1916]	2.077348e-20	2.952281e-01	6.386225e-01	9.856362e-01	9.845404e-03
[1921]	4.122062e-06	3.659927e-01	NA	8.221591e-05	8.858324e-02
[1926]	3.351640e-187	3.439781e-01	9.984235e-01	1.101839e-09	4.895758e-01
[1931]	4.477120e-01	2.314808e-02	2.398655e-01	8.377357e-07	9.948332e-01
[1936]	NA	1.807179e-19	4.159341e-01	4.805780e-01	4.843743e-01
[1941]	2.965679e-10	3.147975e-01	5.436087e-01	1.906226e-08	5.017684e-35
[1946]	4.148355e-26	1.502940e-04	NA	2.048812e-05	2.870162e-02
[1951]	NA	2.509580e-01	NA	NA	NA
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[1961]	6.788682e-46	7.745598e-01	1.337438e-01	1.073876e-09	5.494615e-01
[1966]	5.742258e-25	NA	NA	NA	2.484056e-34
[1971]	1.496361e-05	2.131605e-19	1.816516e-02	2.824438e-01	9.995173e-42
[1976]	4.158422e-01	1.383540e-16	5.906859e-01	5.324237e-02	6.569955e-01
[1981]	2.712044e-01	9.044383e-01	7.678331e-05	2.060849e-02	4.717252e-16
[1986]	1.865073e-02	2.550253e-01	3.997132e-02	NA	7.660880e-02

[1991]	5.873972e-10	2.864272e-13	7.168513e-01	8.490882e-01		NA
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[2056]	4.958116e-07	NA	8.153772e-01	3.266467e-03	3.724248e-01	
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[2071]	1.494350e-10	4.112924e-01	3.322478e-02	4.595321e-01	3.897942e-02	
[2076]	9.910407e-01	5.199114e-01	4.852476e-05	1.621342e-01	6.603590e-176	
[2081]	7.562596e-16	5.039224e-55	5.158053e-04	7.405835e-01	3.790461e-01	
[2086]	7.082005e-61	2.262686e-01	1.356385e-01	1.294359e-02	1.958856e-05	
[2091]	1.355865e-03	NA	4.020483e-01	3.573766e-05	7.213283e-25	
[2096]	7.387085e-12	2.009193e-09	NA	3.509999e-03	NA	
[2101]	5.484907e-01	9.848747e-02	1.653331e-01	NA	6.172111e-02	
[2106]	3.774039e-01	NA	5.011074e-01	1.668024e-80	5.616356e-01	
[2111]	3.532662e-25	6.624908e-01	3.806437e-79	9.765175e-98	1.683063e-18	
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[2121]	NA	3.390930e-05	1.091475e-04	1.028929e-11	8.758178e-01	
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[2131]	7.014719e-01	NA	NA	2.235155e-05	4.912448e-01	
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[2141]	8.525652e-01	2.192589e-01	2.521158e-01	3.425299e-38	1.662076e-07	
[2146]	1.003481e-01	3.367051e-02	9.813557e-01	4.112556e-11	8.018556e-01	
[2151]	2.458835e-11	9.685732e-01	NA	NA	NA	
[2156]	4.891436e-01	2.035604e-19	3.678027e-28	NA	3.861077e-01	
[2161]	2.962962e-45	1.162438e-05	7.099534e-28	7.491644e-12	7.989629e-02	
[2166]	3.214132e-01	5.738607e-01	8.934654e-05	NA	NA	
[2171]	1.931673e-03	1.915538e-03	6.019368e-23	1.948189e-01	NA	
[2176]	7.780363e-01	7.097800e-01	9.302823e-01	1.724632e-03	3.123492e-01	
[2181]	1.922877e-01	3.592793e-05	2.229113e-04	2.218219e-04	NA	
[2186]	2.914778e-02	4.899649e-01	7.116958e-01	3.102021e-01	NA	
[2191]	2.139583e-01	1.560375e-05	4.072199e-02	5.577434e-30	3.170441e-03	
[2196]	3.130380e-01	1.069263e-01	9.106458e-01	3.389521e-04	1.038472e-156	
[2201]	1.334136e-01	1.989067e-05	4.665464e-01	1.166000e-01	2.810856e-02	

[2206]	NA	NA	5.706735e-01	6.820140e-01	8.197164e-25
[2211]	2.349753e-26	3.364038e-09	NA	9.473544e-01	6.587964e-01
[2216]	2.227227e-01	1.489435e-05	NA	5.362612e-01	7.198792e-01
[2221]	6.423509e-01	1.800554e-13	4.600408e-01	3.910529e-17	2.788363e-06
[2226]	3.616146e-04	6.581517e-65	6.637680e-72	8.887667e-39	0.000000e+00
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[2236]	2.119071e-04	NA	1.520916e-06	8.554503e-02	4.489909e-01
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[2246]	4.545264e-03	7.870943e-01	2.741536e-01	7.291455e-31	2.197104e-01
[2251]	6.255573e-21	7.384619e-01	9.894732e-01	3.003865e-04	3.489832e-01
[2256]	2.660356e-58	7.336886e-01	3.932477e-01	6.645771e-22	NA
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[2276]	7.607671e-01	1.842986e-54	4.143836e-03	NA	NA
[2281]	2.376261e-03	1.992662e-04	0.000000e+00	NA	1.087488e-02
[2286]	1.866508e-01	3.420445e-02	6.074486e-02	9.239773e-09	6.811882e-121
[2291]	3.445096e-11	9.260585e-01	NA	8.563302e-04	5.825659e-01
[2296]	6.491097e-06	3.589659e-01	2.189701e-18	1.851349e-07	4.107870e-04
[2301]	1.837773e-01	1.766608e-03	NA	NA	NA
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[2311]	1.705499e-03	6.204726e-09	3.133050e-01	1.238189e-01	7.266315e-01
[2316]	NA	NA	3.144001e-93	1.606069e-02	2.006235e-58
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[2326]	2.429586e-03	8.031656e-01	3.586944e-12	3.757161e-02	1.593272e-04
[2331]	7.070219e-01	5.909684e-01	7.945851e-04	1.449465e-01	7.435963e-01
[2336]	3.782563e-01	1.361763e-03	7.480754e-01	5.368103e-05	6.056032e-15
[2341]	1.417768e-81	5.857740e-02	1.069365e-09	3.907378e-07	NA
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[2351]	4.886175e-02	NA	7.231162e-17	4.690258e-23	1.064540e-16
[2356]	1.489658e-01	2.652458e-01	NA	3.198138e-29	2.305249e-35
[2361]	1.172914e-10	4.915592e-08	3.278004e-54	7.231069e-21	3.651211e-01
[2366]	9.360720e-02	1.515487e-01	7.174305e-01	NA	3.124900e-03
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[2376]	NA	7.306095e-01	NA	NA	NA
[2381]	2.152944e-65	1.625146e-10	6.841537e-01	5.427573e-20	2.913457e-32
[2386]	4.961966e-14	4.682761e-01	5.245079e-01	NA	3.050528e-01
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[2396]	1.152105e-02	7.745598e-01	NA	NA	NA
[2401]	NA	3.148674e-01	8.284116e-01	4.237718e-01	1.808562e-01
[2406]	6.022774e-01	2.390026e-09	6.743795e-02	1.147704e-01	4.016668e-03
[2411]	8.472809e-07	3.243386e-02	1.357626e-04	2.501188e-01	6.554269e-01
[2416]	NA	2.048303e-05	2.673603e-54	NA	1.186952e-03

[2421]	2.074378e-04	3.583633e-38	1.921909e-03	4.396259e-01	9.907189e-01
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[2431]	1.406673e-235	4.869981e-01	1.985818e-04	7.591290e-11	4.597026e-09
[2436]	6.776443e-182	NA	9.172031e-01	3.025344e-46	2.038835e-01
[2441]	6.699923e-01	8.404897e-01	9.628243e-01	NA	5.008356e-04
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[2451]	2.383332e-08	NA	8.525652e-01	5.466591e-07	7.711042e-01
[2456]	3.286573e-01	1.190714e-04	9.457097e-01	1.111577e-06	1.266542e-184
[2461]	7.678790e-01	1.583593e-17	2.590837e-57	1.887920e-02	4.203512e-05
[2466]	NA	NA	NA	NA	NA
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[2481]	3.272131e-03	8.807070e-01	1.891954e-31	4.490146e-01	5.440314e-05
[2486]	4.779096e-13	7.996385e-01	NA	2.451920e-10	1.418323e-01
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[2496]	4.691235e-05	9.270294e-01	1.366940e-01	1.293209e-01	2.962853e-17
[2501]	3.852747e-01	7.853416e-01	2.697501e-04	7.352669e-01	9.528404e-01
[2506]	3.348813e-05	3.886685e-78	NA	NA	9.490081e-01
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[2536]	NA	2.128719e-01	5.994031e-06	5.614036e-67	4.019276e-02
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[2546]	5.177938e-18	3.514398e-01	9.666689e-03	7.352462e-03	1.305320e-14
[2551]	7.143298e-01	8.907885e-03	4.459445e-69	NA	9.908906e-02
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[2576]	8.422055e-01	3.992094e-01	3.945213e-01	2.929247e-01	1.887562e-01
[2581]	1.970244e-07	2.963457e-01	2.710471e-01	NA	5.610682e-01
[2586]	7.072639e-25	3.603474e-04	2.682488e-25	2.009724e-04	6.694886e-02
[2591]	2.111038e-03	4.619085e-01	6.676044e-52	2.914776e-01	5.135050e-47
[2596]	1.447730e-02	1.302924e-02	6.426083e-17	3.217035e-01	NA
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[2621]	1.036270e-27	2.249848e-06	9.792514e-03	NA	3.841470e-05
[2626]	NA	2.605724e-73	1.104435e-07	8.089160e-01	3.724248e-01
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[2651]	NA	4.836156e-69	5.137661e-09	4.119980e-101	NA
[2656]	NA	NA	NA	NA	NA
[2661]	NA	9.353550e-02	2.257957e-01	3.750022e-01	9.852103e-01
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[2671]	6.366645e-01	1.103806e-01	NA	NA	NA
[2676]	5.222278e-23	1.270598e-01	2.873076e-02	9.141173e-01	NA
[2681]	NA	4.078323e-02	2.730070e-02	4.365363e-52	7.353838e-01
[2686]	6.563676e-07	NA	3.046322e-01	1.064806e-06	NA
[2691]	8.935602e-07	5.613395e-01	1.094857e-06	NA	3.902650e-01
[2696]	3.204944e-01	3.977129e-01	2.088976e-03	1.648344e-22	9.475846e-01
[2701]	4.366667e-01	1.493672e-01	1.633411e-63	5.161045e-02	6.915782e-01
[2706]	NA	1.072128e-04	4.311840e-02	8.405044e-02	2.915980e-24
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[2716]	1.437426e-04	7.810639e-01	3.436586e-02	4.666529e-02	8.190201e-03
[2721]	1.560237e-01	NA	NA	NA	NA
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[2731]	5.978832e-08	1.036837e-01	5.428086e-08	6.057037e-01	3.761154e-01
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[2751]	1.065095e-03	NA	NA	4.879884e-08	1.929450e-08
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[2771]	7.755582e-01	2.238272e-03	6.053497e-22	7.628456e-15	6.775069e-01
[2776]	3.743454e-07	5.427168e-01	7.264821e-13	1.485193e-06	7.769109e-01
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[2786]	6.797187e-06	9.206165e-01	5.460959e-01	NA	6.246168e-01
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[2821]	7.485448e-01	3.035204e-06	5.221086e-01	3.849692e-13	9.695149e-01
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[2836]	NA	NA	NA	9.385150e-02	NA
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[2851]	NA	NA	1.700197e-01	1.029807e-02	5.692470e-01
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[2861]	8.682633e-04	5.958022e-03	4.622974e-01	2.084122e-02	1.488457e-151
[2866]	3.880303e-02	2.665212e-32	9.533295e-28	7.109936e-22	8.839378e-05
[2871]	7.975201e-24	NA	1.568134e-02	2.159405e-06	2.945378e-05
[2876]	6.012557e-11	6.391904e-01	1.029348e-22	9.822219e-25	1.210082e-02
[2881]	6.974767e-86	NA	NA	NA	NA
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[2896]	2.567589e-05	7.716149e-01	1.006743e-01	9.826049e-04	1.734176e-01
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[2906]	9.681350e-01	NA	1.013654e-41	NA	8.836732e-01
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[2916]	8.580302e-01	4.350510e-02	1.772098e-02	3.254603e-14	1.045886e-02
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[2936]	3.181655e-01	6.806894e-05	2.469855e-10	9.462158e-01	9.153932e-01
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[2976]	1.556690e-15	1.683248e-01	3.926535e-05	1.552893e-01	1.415144e-01
[2981]	4.539662e-09	7.618247e-01	9.598700e-42	1.597470e-66	NA
[2986]	5.162675e-04	9.034976e-03	1.558842e-07	5.507061e-02	8.142938e-01
[2991]	5.000111e-10	2.323177e-01	2.662327e-15	8.113556e-01	1.065095e-03
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[3016]	3.538791e-09	NA	NA	NA	6.860260e-19
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[3066]	9.873046e-01	7.830952e-02	2.646190e-65	1.333247e-05	3.182122e-04
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[3176]	8.525652e-01	2.351638e-06	5.816470e-02	1.720963e-40	9.216281e-01
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[3186]	2.416826e-01	8.375095e-12	2.772166e-01	NA	NA
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[3281]	1.097476e-32	4.145867e-01	4.042660e-02	5.379547e-01	NA
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[3301]	8.627444e-03	NA	4.309790e-15	NA	NA
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[3351]	1.582421e-14	NA	2.953381e-26	1.503294e-15	1.029184e-05
[3356]	3.762828e-01	6.972285e-02	6.968839e-01	NA	NA
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[3366]	5.373243e-02	2.136137e-01	8.890175e-01	9.075708e-01	NA
[3371]	5.611188e-05	7.891276e-03	3.392144e-01	7.612161e-01	9.355390e-01
[3376]	2.658870e-01	2.252926e-23	6.782131e-02	2.264248e-04	1.669401e-01
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[3396]	1.678585e-04	1.949426e-05	1.204875e-03	9.982825e-02	4.120610e-01
[3401]	1.065352e-10	4.517504e-01	8.643271e-01	3.507101e-01	2.025069e-01
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[3416]	NA	3.056387e-05	1.207090e-01	5.022641e-01	2.759976e-05
[3421]	3.148545e-01	6.840548e-04	5.074418e-56	5.163749e-09	2.343048e-02
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[3436]	NA	6.456539e-02	NA	7.114041e-02	8.155792e-06
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[3446]	2.497211e-01	4.201576e-01	8.174591e-01	2.276863e-01	7.088744e-19
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[3466]	NA	6.180032e-08	7.835043e-32	NA	NA
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[3496]	9.021135e-01	4.120557e-01	1.860965e-06	1.063632e-05	6.103125e-01
[3501]	4.323831e-06	NA	1.546448e-06	9.957292e-01	2.552731e-01
[3506]	2.155096e-01	2.833152e-01	3.776447e-01	2.607525e-01	4.897382e-01
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[3516]	3.356480e-05	3.535125e-02	7.217292e-01	9.744314e-10	7.604253e-22
[3521]	5.862363e-02	2.908927e-02	9.668904e-01	NA	1.835001e-01
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[3531]	1.343765e-01	NA	NA	8.490310e-01	NA
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[3581]	2.863538e-01	8.058932e-01	1.325446e-01	2.354423e-05	2.363717e-02
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[3591]	1.315874e-05	5.834761e-01	1.029161e-03	2.340436e-17	NA
[3596]	5.665136e-01	3.086459e-02	1.735169e-08	6.291523e-01	1.794537e-02
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[3621]	2.926479e-82	NA	4.899172e-01	1.017328e-10	8.914877e-09
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[3636]	1.717176e-01	NA	7.102672e-22	7.356149e-01	2.596173e-01
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[3646]	2.581453e-04	3.651966e-01	3.759712e-07	8.298736e-23	6.015718e-01
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[3661]	7.699556e-03	8.392043e-01	7.977108e-01	4.366670e-05	6.936190e-21
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[3671]	8.287565e-17	1.802425e-01	7.519133e-01	7.499949e-05	7.464569e-36
[3676]	9.283269e-01	NA	8.670470e-01	7.185596e-05	NA
[3681]	2.521180e-43	9.895247e-01	3.107798e-17	2.965338e-01	7.832590e-01
[3686]	2.948519e-01	9.420736e-09	NA	6.115652e-01	NA
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[3706]	8.028590e-05	NA	1.384337e-97	5.699597e-01	5.715817e-01

[3711]	2.359640e-02	6.604258e-05	NA	9.458096e-05	1.819563e-01
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[3776]	4.108715e-47	2.820678e-09	9.378686e-01	1.981750e-126	1.101423e-06
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[3786]	1.981965e-02	3.698407e-21	6.006001e-12	NA	3.343330e-05
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[4816]	1.614764e-41	2.017199e-05	NA	4.537488e-04	4.661582e-01
[4821]	4.550842e-01	4.878698e-02	3.675898e-112	1.411065e-36	1.778083e-07
[4826]	3.540143e-01	1.195785e-22	1.000668e-15	1.419309e-126	NA
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[4836]	8.666631e-12	NA	7.237966e-06	2.359065e-03	1.629699e-04
[4841]	2.027071e-03	4.725911e-43	3.196171e-38	1.863644e-09	5.599180e-61
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[4856]	9.344305e-01	5.313227e-01	3.667076e-05	1.426976e-20	2.857768e-01
[4861]	1.177663e-07	3.990530e-02	3.554748e-06	1.327960e-08	5.990579e-03
[4866]	NA	2.479957e-05	5.193848e-01	1.088217e-07	4.790422e-36
[4871]	2.020200e-129	NA	NA	NA	9.086290e-01
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[4886]	1.573311e-42	2.592752e-04	8.784130e-02	1.631896e-01	NA
[4891]	4.397392e-09	1.889268e-01	1.014548e-11	6.092868e-146	7.850506e-06
[4896]	1.400281e-02	2.693425e-11	NA	NA	NA
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[4916]	5.047638e-54	8.875425e-17	3.345678e-04	6.510776e-06	3.245988e-03
[4921]	1.203896e-35	6.242551e-145	1.513917e-04	3.753076e-01	1.633294e-20
[4926]	5.412132e-05	4.197921e-47	6.623002e-01	3.664186e-27	1.179746e-01
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[4941]	1.987468e-15	1.305051e-03	1.197866e-22	4.040825e-13	NA
[4946]	8.925941e-01	NA	NA	1.343375e-07	2.329581e-03
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[5081]	9.378686e-01	9.594781e-03	3.201646e-09	5.465756e-01	4.970371e-03
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[5216]	3.679074e-01	4.724956e-02	NA	6.281622e-01	7.745598e-01
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[5296]	9.059681e-01	2.154218e-07	9.170940e-01	7.203752e-01	9.627227e-12
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[5326]	1.820298e-01	NA	1.502940e-04	8.317058e-50	9.873000e-03
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[5356]	1.839390e-93	2.907528e-301	0.000000e+00	NA	6.619635e-01
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[5366]	4.565144e-06	1.086649e-04	1.055360e-03	1.639672e-24	9.834054e-01
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[5391]	2.475869e-03	2.781262e-02	2.524614e-01	3.662063e-01	3.136364e-05
[5396]	6.394802e-01	7.486251e-176	5.147408e-02	1.031622e-33	5.833893e-02
[5401]	8.458782e-08	5.906189e-01	1.562747e-02	3.712226e-03	1.066985e-02
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[5421]	7.573009e-01	3.252752e-01	4.100808e-02	1.649055e-04	7.473000e-53
[5426]	9.626050e-01	3.041485e-29	1.489404e-01	6.212508e-01	1.436045e-06

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[6781]	1.710193e-20	7.014719e-01	1.064306e-112	6.706320e-01	2.720368e-36
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[6851]	6.300100e-21	9.470830e-01	NA	7.618247e-01	NA
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[7251]	3.305898e-02	9.470243e-08	9.653325e-06	9.060758e-46	NA
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[8966]	2.654588e-26	NA	3.201561e-08	1.414026e-70	3.861626e-05
[8971]	NA	NA	1.374632e-01	5.924388e-01	9.222848e-02
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[9521]	9.260408e-01	2.097874e-03	3.489832e-01	1.211763e-04	NA
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[9681]	2.870863e-01	1.055961e-08	8.528780e-01	7.142713e-01	6.520834e-01
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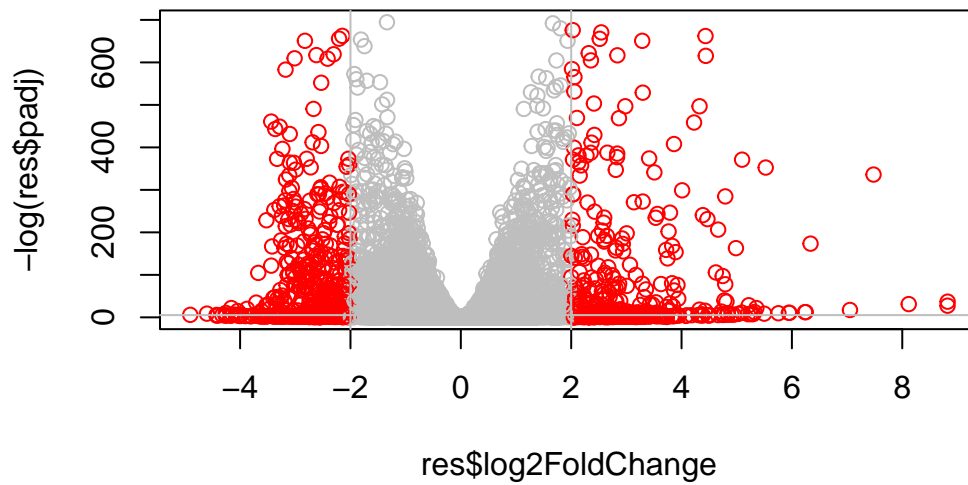
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[19751]	8.086640e-11	3.016727e-128	1.874420e-04	1.927948e-01	4.137322e-04
[19756]	2.459679e-06	6.136962e-01	4.279486e-02	7.673436e-04	7.498969e-05
[19761]	4.106637e-01	6.541500e-08	3.672874e-03	3.574979e-01	NA
[19766]	4.311086e-01	6.406196e-03	3.762092e-02	4.235417e-09	1.971516e-01
[19771]	9.234387e-03	1.226916e-06	8.354376e-07	5.093401e-07	1.558899e-02
[19776]	8.648683e-06	1.600248e-13	2.520653e-19	2.784962e-19	NA
[19781]	NA	7.105683e-01	NA	NA	NA
[19786]	NA	NA	NA	NA	NA
[19791]	NA	NA	NA	5.663686e-01	7.994932e-01
[19796]	4.796113e-02	NA	8.096771e-01	NA	NA
[19801]	8.925941e-01	NA	1.399132e-01	NA	NA
[19806]	4.541401e-05	NA	NA		

```

plot(res$log2FoldChange, -log(res$padj), col=mycols)
abline(v=c(-2,2), col="gray")
abline(h=-log(0.005), col="gray")

```





## Add Annotation

```
library(AnnotationDbi)
library(org.Hs.eg.db)
```

```
columns(org.Hs.eg.db)
```

```
[1] "ACCNUM"      "ALIAS"       "ENSEMBL"     "ENSEMBLPROT" "ENSEMBLTRANS"
[6] "ENTREZID"    "ENZYME"      "EVIDENCE"    "EVIDENCEALL"  "GENENAME"
[11] "GENETYPE"    "GO"          "GOALL"       "IPI"          "MAP"
[16] "OMIM"        "ONTOLOGY"    "ONTOLOGYALL" "PATH"         "PFAM"
[21] "PMID"        "PROSITE"     "REFSEQ"      "SYMBOL"       "UCSCKG"
[26] "UNIPROT"
```

```
res$symbol <- mapIds(org.Hs.eg.db,
                     keys=rownames(res),
                     keytype = "ENSEMBL",
                     column = "SYMBOL")
```

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

```
res$entrez = mapIds(org.Hs.eg.db,  
                    keys=row.names(res),  
                    keytype="ENSEMBL",  
                    column="ENTREZID")
```

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

```
res$name = mapIds(org.Hs.eg.db,  
                  keys=row.names(res),  
                  keytype="ENSEMBL",  
                  column="ENTREZID")
```

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

```
head(res, 10)
```

log2 fold change (MLE): condition hoxa1 kd vs control sirna

Wald test p-value: condition hoxa1 kd vs control sirna

DataFrame with 10 rows and 9 columns

	baseMean	log2FoldChange	lfcSE	stat	pvalue
	<numeric>	<numeric>	<numeric>	<numeric>	<numeric>
ENSG00000186092	0.0000	NA	NA	NA	NA
ENSG00000279928	0.0000	NA	NA	NA	NA
ENSG00000279457	29.9136	0.1792571	0.3248216	0.551863	5.81042e-01
ENSG00000278566	0.0000	NA	NA	NA	NA
ENSG00000273547	0.0000	NA	NA	NA	NA
ENSG00000187634	183.2296	0.4264571	0.1402658	3.040350	2.36304e-03
ENSG00000188976	1651.1881	-0.6927205	0.0548465	-12.630158	1.43989e-36
ENSG00000187961	209.6379	0.7297556	0.1318599	5.534326	3.12428e-08
ENSG00000187583	47.2551	0.0405765	0.2718928	0.149237	8.81366e-01
ENSG00000187642	11.9798	0.5428105	0.5215599	1.040744	2.97994e-01
	padj	symbol	entrez	name	
	<numeric>	<character>	<character>	<character>	
ENSG00000186092	NA	OR4F5	79501	79501	
ENSG00000279928	NA	NA	NA	NA	
ENSG00000279457	6.87080e-01	NA	NA	NA	
ENSG00000278566	NA	NA	NA	NA	
ENSG00000273547	NA	NA	NA	NA	

ENSG00000187634	5.16278e-03	SAMD11	148398	148398
ENSG00000188976	1.76740e-35	NOC2L	26155	26155
ENSG00000187961	1.13536e-07	KLHL17	339451	339451
ENSG00000187583	9.18988e-01	PLEKHN1	84069	84069
ENSG00000187642	4.03817e-01	PERM1	84808	84808

## Pathway Analysis

```
library(gage)
```

```
library(gageData)
library(pathview)
```

```
#####
Pathview is an open source software package distributed under GNU General
Public License version 3 (GPLv3). Details of GPLv3 is available at
http://www.gnu.org/licenses/gpl-3.0.html. Particullary, users are required to
formally cite the original Pathview paper (not just mention it) in publications
or products. For details, do citation("pathview") within R.
```

```
The pathview downloads and uses KEGG data. Non-academic uses may require a KEGG
license agreement (details at http://www.kegg.jp/kegg/legal.html).
```

```
#####
```

```
data(kegg.sets.hs)
data(sigmet.idx.hs)
```

```
foldchanges = res$log2FoldChange
names(foldchanges) = res$entrez
head(foldchanges)
```

79501	<NA>	<NA>	<NA>	<NA>	148398
NA	NA	0.1792571	NA	NA	0.4264571

```
keggres = gage(foldchanges, gsets=kegg.sets.hs)
```

```
attributes(keggres)
```

```
$names
```

```
[1] "greater" "less"    "stats"
```

```
head(keggres$less, 3)
```

	p.geomean	stat.mean
hsa04110 Cell cycle	7.077982e-06	-4.432593
hsa03030 DNA replication	9.424076e-05	-3.951803
hsa05130 Pathogenic Escherichia coli infection	1.076420e-04	-3.835716
	p.val	q.val
hsa04110 Cell cycle	7.077982e-06	0.001507610
hsa03030 DNA replication	9.424076e-05	0.007642585
hsa05130 Pathogenic Escherichia coli infection	1.076420e-04	0.007642585
	set.size	exp1
hsa04110 Cell cycle	124	7.077982e-06
hsa03030 DNA replication	36	9.424076e-05
hsa05130 Pathogenic Escherichia coli infection	55	1.076420e-04

```
head(keggres$greater, 3)
```

	p.geomean	stat.mean
hsa04740 Olfactory transduction	6.512007e-08	5.345472
hsa04060 Cytokine-cytokine receptor interaction	8.703597e-08	5.313429
hsa05323 Rheumatoid arthritis	4.392802e-05	4.030693
	p.val	q.val
hsa04740 Olfactory transduction	6.512007e-08	9.269331e-06
hsa04060 Cytokine-cytokine receptor interaction	8.703597e-08	9.269331e-06
hsa05323 Rheumatoid arthritis	4.392802e-05	3.118889e-03
	set.size	exp1
hsa04740 Olfactory transduction	354	6.512007e-08
hsa04060 Cytokine-cytokine receptor interaction	263	8.703597e-08
hsa05323 Rheumatoid arthritis	87	4.392802e-05

Generate pathway figures

```
pathview(gene.data=foldchanges,  
pathway.id = "hsa04110")
```

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

Info: Working in directory /Users/noellim/Desktop/BIMM143/class14

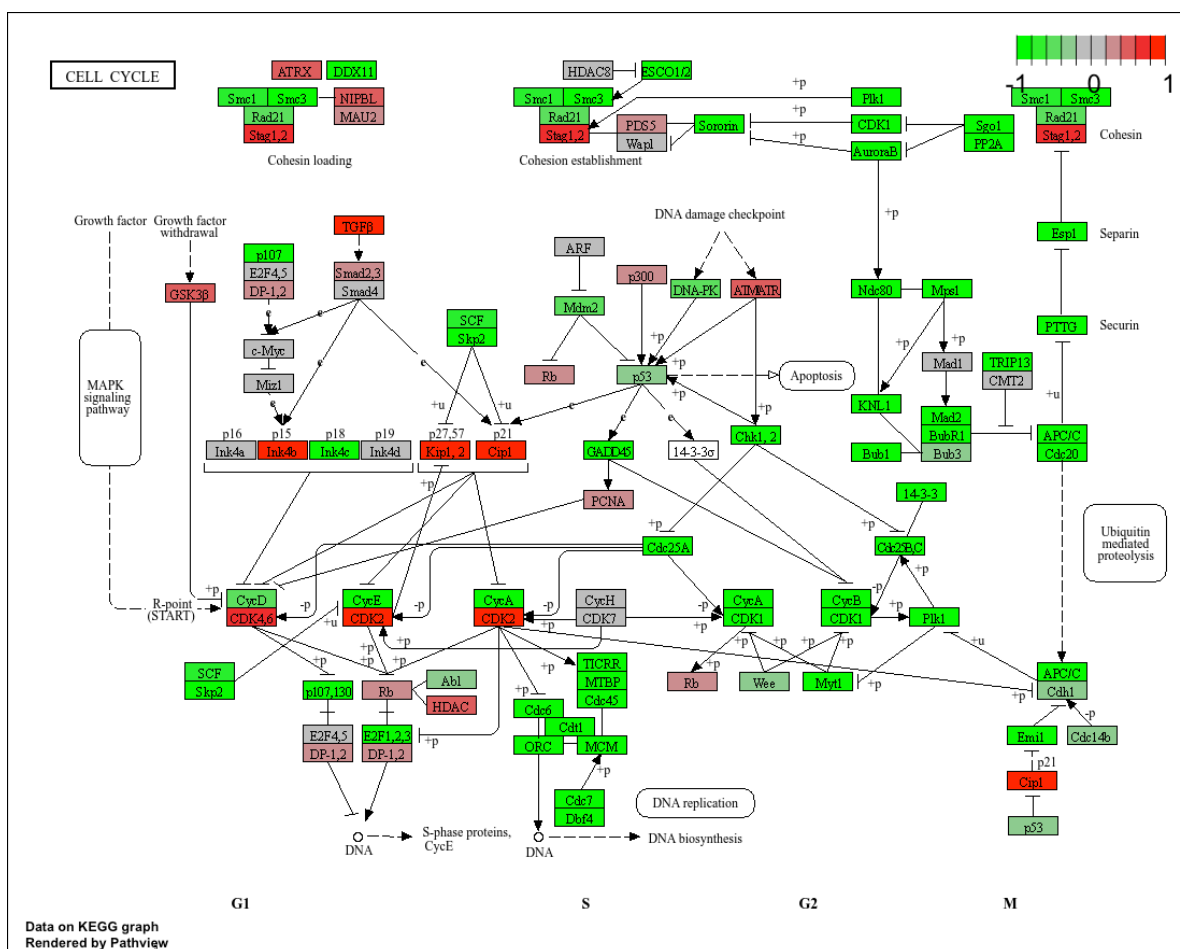
Info: Writing image file hsa04110.pathview.png

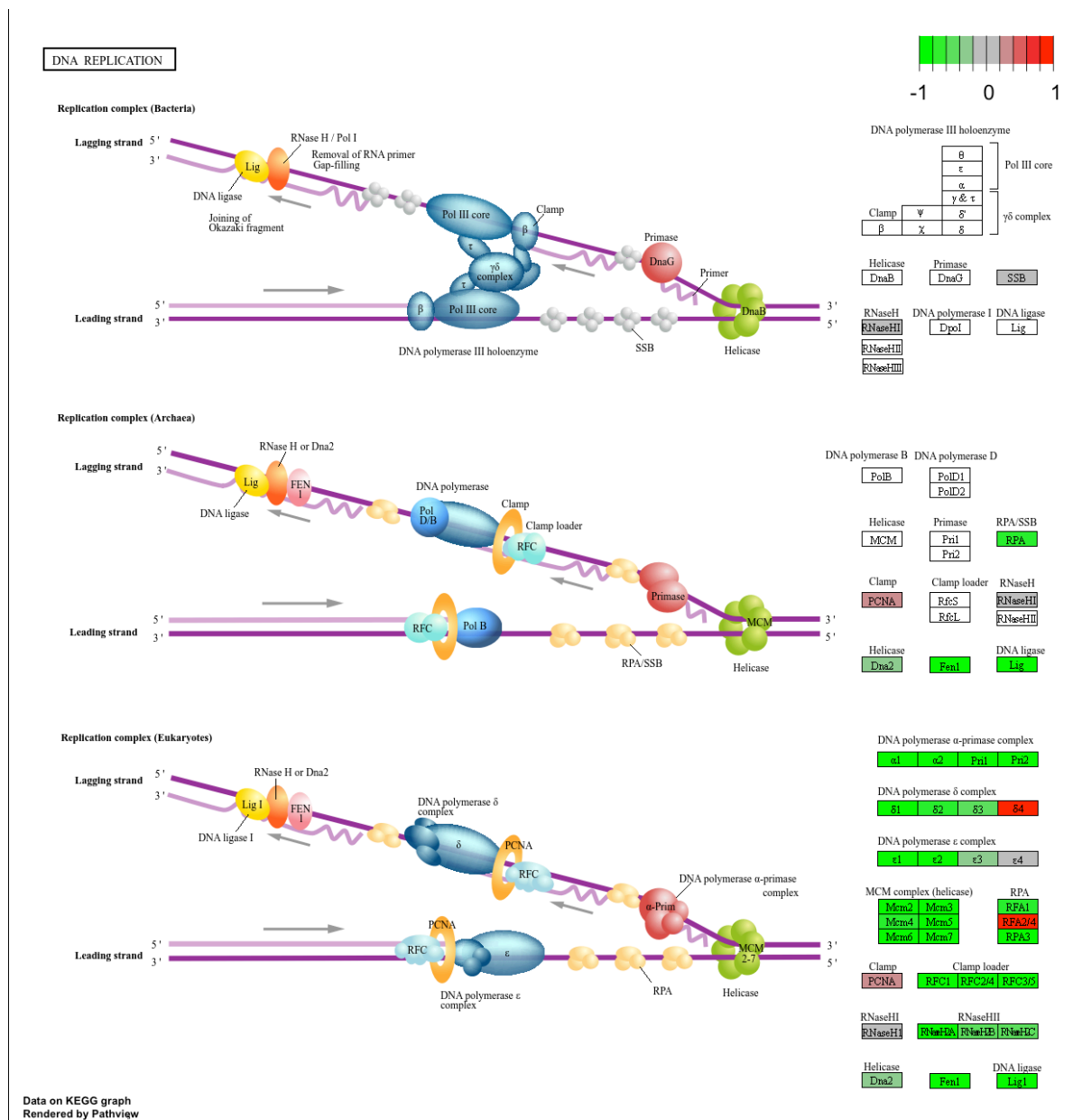
```
pathview(gene.data=foldchanges,  
pathway.id = "hsa03030")
```

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

Info: Working in directory /Users/noellim/Desktop/BIMM143/class14

Info: Writing image file hsa03030.pathview.png





nrow(countData)

[1] 19808

nrow(res)

[1] 19808

## Gene Ontology

```
data(go.sets.hs)
data(go.subs.hs)

# Focus on Biological Process subset of GO
gobpsets = go.sets.hs[go.subs.hs$BP]

gobpres = gage(foldchanges, gsets=gobpsets, same.dir=TRUE)
```

```
head(gobpres$less)
```

	p.geomean	stat.mean	p.val
GO:0048285 organelle fission	6.386337e-16	-8.175381	6.386337e-16
GO:0000280 nuclear division	1.726380e-15	-8.056666	1.726380e-15
GO:0007067 mitosis	1.726380e-15	-8.056666	1.726380e-15
GO:0000087 M phase of mitotic cell cycle	4.593581e-15	-7.919909	4.593581e-15
GO:0007059 chromosome segregation	9.576332e-12	-6.994852	9.576332e-12
GO:0051301 cell division	8.718528e-11	-6.455491	8.718528e-11

	q.val	set.size	expl
GO:0048285 organelle fission	2.515911e-12	386	6.386337e-16
GO:0000280 nuclear division	2.515911e-12	362	1.726380e-15
GO:0007067 mitosis	2.515911e-12	362	1.726380e-15
GO:0000087 M phase of mitotic cell cycle	5.020784e-12	373	4.593581e-15
GO:0007059 chromosome segregation	8.373545e-09	146	9.576332e-12
GO:0051301 cell division	6.352901e-08	479	8.718528e-11

## Reactome Analysis

```
sig_genes <- res[res$padj <= 0.05 & !is.na(res$padj), "symbol"]
print(paste("Total number of significant genes:", length(sig_genes)))
```

```
[1] "Total number of significant genes: 8146"
```

```
write.table(sig_genes, file="significant_genes.txt", row.names=FALSE, col.names=FALSE, quote=
```



Q. What pathway has the most significant “Entities p-value”? Do the most significant pathways listed match your previous KEGG results? What factors could cause differences between the two methods?

Most significant pathway is cell cycle (mitotic), they are slightly different from KEGG results (more specific)

## Save Results

```
write.csv(res, file="myresults.csv")
```