

Uncovering gene regulatory relationships from time-series expression data using networkBMA

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This document illustrates the use of the **networkBMA** R package (Fraley et al. 2012) to uncover regulatory relationships in yeast (*Saccharomyces cerevisiae*) from microarray data measuring time-dependent gene-expression levels in 95 genotyped yeast segregants subjected to a drug (rapamycin) perturbation.

1 Data

The expression data for this vignette is provided in the **networkBMA** package in the **vignette** database, which consists of three R objects:

timeSeries: A 582 by 102 data frame in which the first two columns are factors identifying the replicate and time (in minutes) after drug perturbation, and the remaining 100 columns are the expression measurements for a subset of 100 genes from the yeast-rapamycin experiment described in Yeung et al. (2011). There are $582/6 = 97$ replicates (the 95 segregants plus two parental strains of the segregants), each with measurements at 6 time points. The complete time series data is available from Array Express (Parkinson et al. 2007) with accession number E-MTAB-412 (<http://www.ebi.ac.uk/arrayexpress/experiments/E-MTAB-412>).

reg.known: A 18 by 3 data frame giving known regulatory relationships among this subset of 100 genes. The first two columns give the regulator and target gene, respectively, while the third encodes the source of the regulatory information ('YPD' for Yeast Proteome Database (Hodges et al. 1999) and 'SCPD' for The Promoter Database of *Saccharomyces cerevisiae* (Zhu and Zhang 1999). In this example, we constrained **reg.known** to high-confidence experimental results obtained from biochemical (non-high-throughput) experiments.

reg.prob: A 100 by 100 matrix, giving probability estimates for regulatory relationships in which the (i, j) entry gives the estimated probability that gene i regulates gene j . These were computed using the supervised framework integrating multiple data sources of Lo et al. (2012).

referencePairs: A 2-column data frame giving 287 regulator-gene pairs among the selected set of 100 genes reported from the literature. In this yeast example, the reference network was extracted from the documented evidence from the YEASTRACT database (Teixeira et al. 2006), which includes curated regulatory relationships from the literature inferred from high-throughput experiments.

`brem.data`: An 85 by 111 subset of the data used for network inference in yeast (Brem et al. 2002, Brem and Kruglyak 2005). The rows correspond to genes and the columns to experiments. Provided courtesy of Rachel Brem.

```
> library(networkBMA)
> data(vignette)
> dim(timeSeries)
```

```
[1] 582 102
```

```
> dim(reg.prob)
```

```
[1] 100 100
```

```
> dim(brem.data)
```

```
[1] 85 111
```

```
> reg.known
```

| | Regulator | TargetGene | source |
|----|-----------|------------|--------|
| 1 | YDR216W | YKR009C | YPD |
| 2 | YER040W | YPL111W | YPD |
| 3 | YER040W | YKL015W | YPD |
| 4 | YER040W | YOR348C | YPD |
| 5 | YJR094C | YDR523C | YPD |
| 6 | YKL062W | YMR169C | YPD |
| 7 | YKL062W | YPL061W | YPD |
| 8 | YKL062W | YAL062W | YPD |
| 9 | YKL062W | YIL155C | YPD |
| 10 | YKL062W | YFL014W | YPD |
| 11 | YKL062W | YCR021C | YPD |
| 12 | YKL062W | YDR258C | YPD |
| 13 | YKL062W | YJR094C | YPD |
| 14 | YKL062W | YER150W | YPD |
| 15 | YKL062W | YNL194C | YPD |
| 16 | YBL103C | YNL037C | YPD |
| 17 | YKL112W | YCL064C | SCPD |
| 18 | YKL112W | YHR051W | SCPD |

2 Network Modeling

Given the yeast expression data from the Rapamycin experiments, the `networkBMA` function can be invoked to estimate the probabilities of regulatory relationships using ScanBMA, fastBMA or iterative Bayesian Model Averaging (Yeung et al. 2005, 2011). The ScanBMA algorithm, as shown in Algorithm 1, is preferred when available. The parameter "prior.prob"

indicates the prior probabilities of regulatory relationships. If the parameter "prior.prob" is set to a single positive fraction, it represents the probability of a regulator-gene pair in the network (*i.e.* the expected network density as defined in (Lo et al. 2012)). The parameter "prior.prob" can also be set to a matrix in which the (i,j) entry is the estimated prior probability that gene i regulates gene j. The default value of "prior.prob" is NULL, which implies that no prior information will be used in modeling the network.

```
> edges.ScanBMA <- networkBMA(data = timeSeries[,-(1:2)],
+                               nTimePoints = length(unique(timeSeries$time)),
+                               prior.prob = reg.prob,
+                               nvar = 50,
+                               ordering = "bic1+prior", diff100 = TRUE, diff0 = TRUE)
> edges.ScanBMA[1:9,]
```

| | Regulator | TargetGene | PostProb |
|-----|-----------|------------|----------|
| 1 | YJL217W | YJL217W | 1 |
| 2 | YIL037C | YIL037C | 1 |
| 3 | YGL009C | YGL009C | 1 |
| 101 | YHR216W | YHR216W | 1 |
| 102 | YOL014W | YOL014W | 1 |
| 201 | YAL062W | YAL062W | 1 |
| 202 | YHR136C | YHR136C | 1 |
| 203 | YJR094C | YJR094C | 1 |
| 301 | YOR032C | YOR032C | 1 |

For each gene g , the observed gene expression of genes at time $t - 1$ serve as linear predictors for modeling the observed expression of gene g at time t . BMA modeling results in a weighted average of models consisting of relatively small numbers of predictors. The probability of gene h being a linear predictor in the model for gene g is taken as the probability that gene h regulates gene g in the network.

There are options for ordering the variables (parameter "ordering") and specifying the number of ordered variables (parameter "nvar") to be included in the modeling. In both algorithms ScanBMA and iBMA, all the candidate variables (genes) are initially ranked using the method specified in "ordering", and the top "nvar" such variables will be used as input in the BMA regression step. Note that if ScanBMA is used, the parameter "ordering" will have no effect in the BMA regression step.

Fast BMA is another algorithm option. It is a similar algorithm with Scan BMA but all coded in C++ at the backends. It also used new optimize algorithm and abandoned some options in Scan BMA which would not help efficiently increase algorithm performance. As a result, several parameters will be ignored if fast BMA is used. They are "ordering", "maxreg", "diff0" and "diff100". And flags are controlled by fastBMAcontrol list. The optimize is either a positive integer indicates the accuracy of the optimize algorithm or 0 if no optimize used.

Differentiation can also be performed on edges returned with 0% or 100% posterior probability. To include known regulatory relationships, the iBMA algorithm must be used. This can be done as shown below, but the results shown subsequently will use the call with ScanBMA as the algorithm, as above.

```

> edges.iBMA <- networkBMA(data = timeSeries[,-(1:2)],
+                           nTimePoints = length(unique(timeSeries$time)),
+                           prior.prob = reg.prob, known = reg.known,
+                           nvar = 50, control = iBMAcontrolLM(),
+                           ordering = "bic1+prior", diff100 = FALSE,
+                           diff0 = FALSE)
> edges.iBMA[1:9,]

```

| | Regulator | TargetGene | PostProb |
|----|-----------|------------|----------|
| 1 | YBL103C | YBL103C | 1 |
| 2 | YNR053C | YBL103C | 1 |
| 3 | YOR206W | YBL103C | 1 |
| 4 | YKL112W | YKL112W | 1 |
| 5 | YMR229C | YKL112W | 1 |
| 8 | YDR216W | YDR216W | 1 |
| 9 | YDL170W | YDR216W | 1 |
| 10 | YOR302W | YDR216W | 1 |
| 11 | YPL265W | YDR216W | 1 |

```

> edges.fastBMA <- networkBMA(data = timeSeries[,-(1:2)],
+                              nTimePoints = length(unique(timeSeries$time)),
+                              prior.prob = reg.prob,
+                              control = fastBMAcontrol(edges.iBMA),
+                              fastgCtrl = fastgControl(opt = 1))
> edges.fastBMA[1:9,]

```

| | Regulator | TargetGene | PostProb |
|----|-----------|------------|----------|
| 1 | YOR206W | YBL103C | 1 |
| 2 | YNR053C | YBL103C | 1 |
| 9 | YDL160C | YER040W | 1 |
| 10 | YNR053C | YER040W | 1 |
| 11 | YDR171W | YGR142W | 1 |
| 17 | YLR267W | YNL036W | 1 |
| 19 | YHR136C | YML123C | 1 |
| 22 | YMR229C | YML123C | 1 |
| 25 | YDR171W | YHR136C | 1 |

3 Assessment of Network Models

Although, except for synthetic data, the true underlying network is unknown, the results can be assessed using a set of regulator-target gene network edges reported in the literature. The comparison is done as follows:

- Let E be the set of regulator-target gene edges resulting from `networkBMA`, possibly reduced using a probability threshold. In the context of the example in Section 2, E corresponds to the set of edges represented in the object `edges.ScanBMA`.

Algorithm 1: ScanBMA

```
Initialize  $\mathcal{M}_{keep}, \mathcal{M}_{next} = \{\}$ 
Initialize  $\mathcal{M}_{active} = \{null\ model\}$ ,  $bestScore = 0$ 
while  $\mathcal{M}_{active}$  not empty do
    for model  $m_{new}$  in NeighborsOf( $\mathcal{M}_{active}$ ) do
         $mScore = \text{EvaluateModelScore}(m_{new})$ 
        if  $mScore$  in OccamsWindow( $bestScore$ ) then
            add  $m_{new}$  to  $\mathcal{M}_{next}$ 
             $bestScore = \text{BestModelScore}(bestScore, mScore)$ 
        end
    end
    Trim models from  $\mathcal{M}_{keep}$  according to  $bestScore$ 
    Add good models from  $\mathcal{M}_{active}$  to  $\mathcal{M}_{keep}$ 
     $\mathcal{M}_{active} = \text{good models from } \mathcal{M}_{next}$ 
end
return  $\mathcal{M}_{keep}$ 
```

- Let K be the set of known regulator-target gene edges hardcoded in the modeling. In the example in Section 2, K corresponds to `reg.known`.
- Let L be the set regulator-target gene edges reported in the literature. In the example in Section 2, L corresponds to `referencePairs`.
- Let $E \setminus K$ and $L \setminus K$ be the set of pairs in E and L , respectively, with any hardcoded edges removed. In the example of Section 2, E represented by `edges.ScanBMA` contains 483 pairs, and L represented by `referencePairs` contains 287 pairs. Both E and L include all 18 of the known hardcoded edges K represented by `reg.known`. Hence $E \setminus K$ contains 465 pairs, and $L \setminus K$ contains 269 pairs.
- Let U be the set of all directed pairs $r-g$ such that r is a regulator in $L \setminus K$ and g is a target gene in $L \setminus K$. For the example of Section 2, $L \setminus K$ has 11 unique regulator genes and 99 unique target genes. So there are 11×99 or 1089 pairs in U . Assume further that the linked pairs in U are precisely those pairs in $L \setminus K$, and that all other pairs are unlinked.
- Let $U \setminus K$ be the set of pairs in U with any hardcoded edges removed (hardcoded edges may resurface in the unlinked pairs). For the example of Section 2, 17 of the 18 pairs in K occur in U , so there are $1089 - 17 = 1072$ edges in $U \setminus K$.

The assessment is done using the contingency table of $(E \setminus K) \cap (U \setminus K)$ relative to $U \setminus K$. For the example of Section 2, the assessment would be done with the 57 of the 465 pairs in $E \setminus K$ that also belong to $U \setminus K$.

A function called `contabs.netBMA` is provided to produce contingency tables from a reference network according the procedure described above. Here we compare the edges produced in Section 2 by `networkBMA` modeling on the yeast data with the reference network `referencePairs` made up of results reported in the literature:

```
> ctables <- contabs.netwBMA( edges.ScanBMA, referencePairs, reg.known,
+                               thresh=c(.5,.75,.9))
```

```
[1] "network Before:"
```

| | Regulator | TargetGene | prob |
|------|-----------|------------|--------------|
| 301 | YOR032C | YOR032C | 1.000000e+00 |
| 1602 | YDR216W | YDR216W | 1.000000e+00 |
| 2102 | YDL170W | YDL170W | 1.000000e+00 |
| 2202 | YKL062W | YKL062W | 1.000000e+00 |
| 2203 | YGL254W | YGL254W | 1.000000e+00 |
| 2301 | YKL015W | YKL015W | 1.000000e+00 |
| 2501 | YKL112W | YKL112W | 1.000000e+00 |
| 3401 | YMR280C | YMR280C | 1.000000e+00 |
| 3701 | YDR043C | YDR043C | 1.000000e+00 |
| 5702 | YER040W | YER040W | 1.000000e+00 |
| 6101 | YKL112W | YNL270C | 1.000000e+00 |
| 7601 | YDL170W | YCR010C | 1.000000e+00 |
| 8801 | YKL062W | YKR009C | 1.000000e+00 |
| 9801 | YDL170W | YJR110W | 1.000000e+00 |
| 9901 | YKL062W | YDR216W | 1.000000e+00 |
| 3703 | YKL062W | YIL136W | 1.000000e+00 |
| 7104 | YKL062W | YDR361C | 1.000000e+00 |
| 904 | YDR216W | YDR171W | 1.000000e+00 |
| 5303 | YER040W | YMR229C | 1.000000e+00 |
| 4903 | YBL103C | YLR327C | 1.000000e+00 |
| 2005 | YKL015W | YER150W | 9.999999e-01 |
| 2305 | YDR043C | YLR009W | 9.999997e-01 |
| 1002 | YDR043C | YCR021C | 9.999784e-01 |
| 9203 | YKL062W | YLR178C | 9.999588e-01 |
| 3503 | YDR043C | YER002W | 9.926295e-01 |
| 1603 | YER040W | YDL170W | 9.903681e-01 |
| 7004 | YBL103C | YPR002W | 9.882139e-01 |
| 605 | YMR280C | YNL036W | 9.870398e-01 |
| 9702 | YKL015W | YKL040C | 9.828064e-01 |
| 8405 | YDL170W | YHR029C | 9.759532e-01 |
| 1104 | YKL062W | YGR043C | 9.096228e-01 |
| 404 | YDL170W | YER040W | 8.727256e-01 |
| 2405 | YKL062W | YPL111W | 8.450150e-01 |
| 7005 | YER040W | YPR002W | 8.164570e-01 |
| 805 | YKL062W | YHR136C | 6.882579e-01 |
| 3005 | YKL062W | YNR046W | 6.295850e-01 |
| 2805 | YBL103C | YOR100C | 5.552321e-01 |
| 1508 | YDL170W | YOR348C | 5.286012e-01 |
| 3904 | YDR043C | YER158C | 5.123184e-01 |
| 1509 | YDR216W | YOR348C | 4.627022e-01 |

| | | | |
|------|---------|---------|--------------|
| 4505 | YKL062W | YCL064C | 4.302623e-01 |
| 3506 | YKL062W | YER002W | 4.202709e-01 |
| 3006 | YDR043C | YNR046W | 4.069155e-01 |
| 8906 | YDR043C | YLL034C | 3.694592e-01 |
| 4406 | YMR280C | YKR056W | 3.552051e-01 |
| 5207 | YKL062W | YHL028W | 3.319017e-01 |
| 8907 | YKL062W | YLL034C | 3.147426e-01 |
| 2406 | YKL112W | YPL111W | 3.118635e-01 |
| 6110 | YKL015W | YDR258C | 2.726643e-01 |
| 8408 | YER040W | YHR029C | 2.620775e-01 |
| 8409 | YKL112W | YHR029C | 2.182628e-01 |
| 9105 | YDR043C | YER067W | 2.008918e-01 |
| 7006 | YDL170W | YPR002W | 1.717569e-01 |
| 2707 | YDR043C | YPL012W | 1.621825e-01 |
| 4204 | YMR280C | YGR067C | 9.326290e-02 |
| 8706 | YKL062W | YLR258W | 8.575580e-02 |
| 7805 | YKL062W | YPL036W | 8.001430e-02 |
| 8506 | YKL062W | YOL014W | 7.639610e-02 |
| 1306 | YMR280C | YAL054C | 6.050860e-02 |
| 3207 | YKL062W | YMR193W | 5.076040e-02 |
| 2008 | YDL170W | YER150W | 3.848110e-02 |
| 2009 | YBL103C | YER150W | 3.700350e-02 |
| 6119 | YBL103C | YDR258C | 3.174569e-02 |
| 4508 | YMR280C | YCL064C | 3.002860e-02 |
| 3407 | YDR043C | YLR174W | 2.925340e-02 |
| 5706 | YDL170W | YJL088W | 2.902040e-02 |
| 1512 | YKL062W | YOR348C | 2.571560e-02 |
| 9607 | YKL112W | YJL153C | 2.486470e-02 |
| 709 | YDR043C | YML123C | 2.458570e-02 |
| 5009 | YKL062W | YDL091C | 2.103520e-02 |
| 5407 | YKL062W | YOR206W | 2.060740e-02 |
| 922 | YKL062W | YDR171W | 1.930490e-02 |
| 7806 | YBL103C | YPL036W | 1.577170e-02 |
| 1513 | YKL015W | YOR348C | 1.477050e-02 |
| 1710 | YGL254W | YBR054W | 1.424450e-02 |
| 6706 | YDR043C | YKR009C | 1.127072e-02 |
| 4613 | YKL112W | YJL063C | 1.119170e-02 |
| 815 | YDR043C | YHR136C | 9.952100e-03 |
| 2503 | YDR043C | YOR388C | 8.822526e-03 |
| 9916 | YKL015W | YKL062W | 7.384918e-03 |
| 7807 | YOR032C | YPL036W | 7.080500e-03 |
| 2711 | YKL062W | YPL012W | 6.664478e-03 |
| 3512 | YMR280C | YER002W | 6.093500e-03 |
| 6012 | YKL112W | YDR043C | 5.848100e-03 |
| 1807 | YDR216W | YCR010C | 4.388878e-03 |

| | | | |
|------|---------|---------|--------------|
| 8108 | YKL112W | YBL042C | 4.276927e-03 |
| 1414 | YKL015W | YFL014W | 4.134512e-03 |
| 319 | YDR216W | YMR280C | 3.392673e-03 |
| 7808 | YDR043C | YPL036W | 3.352507e-03 |
| 6413 | YMR280C | YLR276C | 3.311332e-03 |
| 5905 | YKL015W | YNR028W | 2.699416e-03 |
| 4412 | YKL112W | YKR056W | 2.263679e-03 |
| 7809 | YKL112W | YPL036W | 2.186318e-03 |
| 2613 | YKL062W | YJL172W | 2.031746e-03 |
| 321 | YER040W | YMR280C | 1.715859e-03 |
| 9210 | YKL015W | YLR178C | 1.640806e-03 |
| 2809 | YMR280C | YOR100C | 1.564278e-03 |
| 2114 | YGL254W | YPL061W | 1.349289e-03 |
| 9714 | YKL112W | YKL040C | 1.288645e-03 |
| 5824 | YDR043C | YLL011W | 1.228833e-03 |
| 4105 | YKL112W | YNR064C | 1.155329e-03 |
| 7612 | YKL112W | YAL062W | 1.143604e-03 |
| 7208 | YDR043C | YLL033W | 1.139963e-03 |
| 9924 | YDR216W | YKL062W | 1.136548e-03 |
| 2117 | YER040W | YPL061W | 1.097779e-03 |
| 9110 | YOR032C | YER067W | 9.938753e-04 |
| 5505 | YKL112W | YJR094C | 9.377215e-04 |
| 7615 | YER040W | YAL062W | 8.041847e-04 |
| 1311 | YDR216W | YAL054C | 7.240126e-04 |
| 3107 | YER040W | YJR110W | 7.085352e-04 |
| 1614 | YKL062W | YDL170W | 6.620358e-04 |
| 107 | YKL062W | YKL112W | 6.518338e-04 |
| 5314 | YKL112W | YMR229C | 6.153800e-04 |
| 9403 | YDR043C | YOR032C | 6.021894e-04 |
| 5827 | YKL062W | YLL011W | 5.800563e-04 |
| 1418 | YDL170W | YFL014W | 5.600695e-04 |
| 9823 | YKL015W | YHR087W | 4.882720e-04 |
| 326 | YDL170W | YMR280C | 4.740960e-04 |
| 8210 | YGL254W | YLR130C | 4.548084e-04 |
| 2909 | YKL015W | YMR169C | 4.510282e-04 |
| 2513 | YDL170W | YOR388C | 4.487671e-04 |
| 2719 | YMR280C | YPL012W | 3.749033e-04 |
| 2617 | YER040W | YJL172W | 3.361743e-04 |
| 2811 | YKL062W | YOR100C | 3.233403e-04 |
| 1422 | YDR216W | YFL014W | 3.179950e-04 |
| 8211 | YDR216W | YLR130C | 3.131830e-04 |
| 3916 | YKL015W | YER158C | 3.127803e-04 |
| 3917 | YOR032C | YER158C | 3.047235e-04 |
| 6207 | YBL103C | YKL071W | 2.745549e-04 |
| 7313 | YDL170W | YOR302W | 2.706648e-04 |

| | | | |
|------|---------|---------|--------------|
| 5509 | YDR043C | YJR094C | 2.677044e-04 |
| 5412 | YDR043C | YOR206W | 2.508847e-04 |
| 1315 | YGL254W | YAL054C | 2.484465e-04 |
| 7116 | YDR043C | YDR361C | 2.474675e-04 |
| 4208 | YDR216W | YGR067C | 2.437015e-04 |
| 8311 | YBL103C | YLR267W | 2.395245e-04 |
| 2024 | YER040W | YER150W | 2.334549e-04 |
| 3812 | YKL015W | YGR183C | 2.312097e-04 |
| 1022 | YER040W | YCR021C | 2.278207e-04 |
| 331 | YGL254W | YMR280C | 2.205116e-04 |
| 2722 | YOR032C | YPL012W | 2.181173e-04 |
| 4912 | YDR216W | YLR327C | 2.149646e-04 |
| 926 | YBL103C | YDR171W | 2.145629e-04 |
| 8215 | YMR280C | YLR130C | 2.124343e-04 |
| 2315 | YKL062W | YLR009W | 2.033173e-04 |
| 9512 | YOR032C | YHR216W | 2.023385e-04 |
| 3813 | YKL062W | YGR183C | 1.950767e-04 |
| 9933 | YDR043C | YKL062W | 1.860922e-04 |
| 108 | YDR043C | YKL112W | 1.859648e-04 |
| 4913 | YER040W | YLR327C | 1.794421e-04 |
| 9116 | YBL103C | YER067W | 1.754331e-04 |
| 7714 | YKL112W | YDR523C | 1.746721e-04 |
| 6018 | YOR032C | YDR043C | 1.741403e-04 |
| 3114 | YBL103C | YJR110W | 1.700068e-04 |
| 4914 | YKL015W | YLR327C | 1.686509e-04 |
| 5833 | YGL254W | YLL011W | 1.669997e-04 |
| 6809 | YOR032C | YKL015W | 1.653053e-04 |
| 2517 | YKL062W | YOR388C | 1.648864e-04 |
| 6623 | YKL112W | YNL037C | 1.642704e-04 |
| 4010 | YOR032C | YJR148W | 1.637047e-04 |
| 6127 | YER040W | YDR258C | 1.633385e-04 |
| 9214 | YER040W | YLR178C | 1.601746e-04 |
| 2121 | YDL170W | YPL061W | 1.597378e-04 |
| 5514 | YER040W | YJR094C | 1.526310e-04 |
| 9617 | YDR043C | YJL153C | 1.517209e-04 |
| 4711 | YBL103C | YDL160C | 1.405944e-04 |
| 2519 | YMR280C | YOR388C | 1.405749e-04 |
| 6722 | YER040W | YKR009C | 1.376892e-04 |
| 5913 | YER040W | YNR028W | 1.372189e-04 |
| 3720 | YER040W | YIL136W | 1.328123e-04 |
| 9725 | YKL062W | YKL040C | 1.314229e-04 |
| 1435 | YDR043C | YFL014W | 1.260688e-04 |
| 8017 | YKL062W | YOR056C | 1.242641e-04 |
| 8018 | YDR043C | YOR056C | 1.239953e-04 |
| 333 | YKL015W | YMR280C | 1.222893e-04 |

| | | | |
|------|---------|---------|--------------|
| 9122 | YDR216W | YER067W | 1.168811e-04 |
| 5516 | YDL170W | YJR094C | 1.163116e-04 |
| 1027 | YBL103C | YCR021C | 1.161262e-04 |
| 2520 | YER040W | YOR388C | 1.146756e-04 |
| 1111 | YOR032C | YGR043C | 1.121684e-04 |
| 8619 | YDR043C | YNR053C | 1.118330e-04 |
| 4918 | YDL170W | YLR327C | 1.106170e-04 |
| 5517 | YOR032C | YJR094C | 1.099354e-04 |
| 3115 | YGL254W | YJR110W | 1.098570e-04 |
| 1926 | YKL112W | YDR384C | 1.079826e-04 |
| 9409 | YKL062W | YOR032C | 1.017373e-04 |
| 335 | YBL103C | YMR280C | 9.858481e-05 |
| 6726 | YDL170W | YKR009C | 9.620874e-05 |
| 9939 | YMR280C | YKL062W | 9.431196e-05 |
| 5614 | YKL015W | YIL155C | 9.354593e-05 |
| 9729 | YOR032C | YKL040C | 9.145716e-05 |
| 1626 | YKL112W | YDL170W | 9.046739e-05 |
| 6906 | YMR280C | YGL009C | 8.908588e-05 |
| 5518 | YBL103C | YJR094C | 8.692344e-05 |
| 7718 | YKL062W | YDR523C | 8.603540e-05 |
| 6810 | YKL062W | YKL015W | 8.567141e-05 |
| 3317 | YKL015W | YGL254W | 8.378584e-05 |
| 9016 | YBL103C | YDL110C | 8.347189e-05 |
| 9831 | YKL062W | YHR087W | 8.229672e-05 |
| 6812 | YKL112W | YKL015W | 7.749511e-05 |
| 9732 | YER040W | YKL040C | 7.613779e-05 |
| 6627 | YMR280C | YNL037C | 7.514219e-05 |
| 2915 | YDL170W | YMR169C | 7.310313e-05 |
| 7820 | YER040W | YPL036W | 7.199133e-05 |
| 9942 | YKL112W | YKL062W | 7.197676e-05 |
| 4623 | YMR280C | YJL063C | 7.114622e-05 |
| 9320 | YDR043C | YGL229C | 7.091607e-05 |
| 3820 | YMR280C | YGR183C | 6.982865e-05 |
| 7908 | YDR043C | YJL217W | 6.963837e-05 |
| 9321 | YMR280C | YGL229C | 6.960399e-05 |
| 1631 | YBL103C | YDL170W | 6.626979e-05 |
| 7410 | YKL015W | YNL270C | 6.502019e-05 |
| 6813 | YMR280C | YKL015W | 6.384302e-05 |
| 7722 | YER040W | YDR523C | 6.149331e-05 |
| 2629 | YDR043C | YJL172W | 6.110538e-05 |
| 1930 | YKL062W | YDR384C | 6.107044e-05 |
| 7411 | YMR280C | YNL270C | 6.048286e-05 |
| 6631 | YDR043C | YNL037C | 5.927016e-05 |
| 8221 | YKL062W | YLR130C | 5.818131e-05 |
| 7911 | YDR216W | YJL217W | 5.803088e-05 |

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| 8312 | YDR043C | YLR267W | 5.777822e-05 |
| 6734 | YBL103C | YKR009C | 5.716572e-05 |
| 7316 | YKL112W | YOR302W | 5.685453e-05 |
| 4812 | YKL112W | YIL037C | 5.673267e-05 |
| 5522 | YGL254W | YJR094C | 5.638254e-05 |
| 345 | YKL062W | YMR280C | 5.626418e-05 |
| 4217 | YKL112W | YGR067C | 5.606436e-05 |
| 3822 | YDR043C | YGR183C | 5.573155e-05 |
| 346 | YOR032C | YMR280C | 5.520617e-05 |
| 2918 | YMR280C | YMR169C | 5.451099e-05 |
| 9126 | YDL170W | YER067W | 5.374859e-05 |
| 415 | YDR043C | YER040W | 5.364057e-05 |
| 1036 | YDL170W | YCR021C | 5.325783e-05 |
| 7317 | YBL103C | YOR302W | 5.302314e-05 |
| 4715 | YER040W | YDL160C | 5.273234e-05 |
| 9514 | YBL103C | YHR216W | 5.246698e-05 |
| 2532 | YBL103C | YOR388C | 5.039521e-05 |
| 217 | YKL015W | YDR216W | 4.954761e-05 |
| 7412 | YKL062W | YNL270C | 4.826213e-05 |
| 1454 | YMR280C | YFL014W | 4.780681e-05 |
| 9417 | YKL015W | YOR032C | 4.762414e-05 |
| 4814 | YKL062W | YIL037C | 4.713642e-05 |
| 1632 | YDR043C | YDL170W | 4.549196e-05 |
| 6639 | YKL015W | YNL037C | 4.409747e-05 |
| 5416 | YMR280C | YOR206W | 4.353974e-05 |
| 7320 | YER040W | YOR302W | 4.310284e-05 |
| 828 | YMR280C | YHR136C | 4.264791e-05 |
| 4117 | YMR280C | YNR064C | 4.233747e-05 |
| 6137 | YDR216W | YDR258C | 4.107077e-05 |
| 1635 | YOR032C | YDL170W | 4.050507e-05 |
| 5716 | YKL062W | YJL088W | 3.835422e-05 |
| 7015 | YKL112W | YPR002W | 3.770909e-05 |
| 1116 | YMR280C | YGR043C | 3.691210e-05 |
| 5719 | YER040W | YJL088W | 3.687478e-05 |
| 5112 | YMR280C | YHR051W | 3.681192e-05 |
| 218 | YDL170W | YDR216W | 3.627576e-05 |
| 9742 | YBL103C | YKL040C | 3.538803e-05 |
| 9131 | YER040W | YER067W | 3.517504e-05 |
| 9743 | YDL170W | YKL040C | 3.497766e-05 |
| 7828 | YDL170W | YPL036W | 3.488702e-05 |
| 8226 | YBL103C | YLR130C | 3.475313e-05 |
| 8432 | YBL103C | YHR029C | 3.468308e-05 |
| 9217 | YDL170W | YLR178C | 3.400787e-05 |
| 8520 | YMR280C | YOL014W | 3.384804e-05 |
| 6431 | YER040W | YLR276C | 3.326874e-05 |

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| 7915 | YKL062W | YJL217W | 3.266112e-05 |
| 934 | YDL170W | YDR171W | 3.160488e-05 |
| 729 | YMR280C | YML123C | 3.133920e-05 |
| 5532 | YMR280C | YJR094C | 3.113875e-05 |
| 4118 | YBL103C | YNR064C | 3.087882e-05 |
| 7217 | YDL170W | YLL033W | 3.070819e-05 |
| 2217 | YDR043C | YKR075C | 3.051942e-05 |
| 8116 | YOR032C | YBL042C | 3.047466e-05 |
| 2218 | YMR280C | YKR075C | 3.011241e-05 |
| 9836 | YDL170W | YHR087W | 2.879614e-05 |
| 1821 | YKL062W | YCR010C | 2.857842e-05 |
| 8228 | YDL170W | YLR130C | 2.846683e-05 |
| 9517 | YKL015W | YHR216W | 2.820889e-05 |
| 126 | YOR032C | YKL112W | 2.805498e-05 |
| 1936 | YER040W | YDR384C | 2.805228e-05 |
| 3729 | YDL170W | YIL136W | 2.799122e-05 |
| 5720 | YKL112W | YJL088W | 2.778042e-05 |
| 6433 | YKL062W | YLR276C | 2.734314e-05 |
| 5851 | YMR280C | YLL011W | 2.686023e-05 |
| 9423 | YMR280C | YOR032C | 2.677814e-05 |
| 7919 | YMR280C | YJL217W | 2.647862e-05 |
| 7513 | YKL112W | YFR022W | 2.604530e-05 |
| 8230 | YKL112W | YLR130C | 2.603658e-05 |
| 7832 | YMR280C | YPL036W | 2.583816e-05 |
| 7129 | YMR280C | YDR361C | 2.548553e-05 |
| 5930 | YBL103C | YNR028W | 2.494533e-05 |
| 2134 | YBL103C | YPL061W | 2.493416e-05 |
| 5931 | YDL170W | YNR028W | 2.485983e-05 |
| 5932 | YKL112W | YNR028W | 2.471808e-05 |
| 5031 | YOR032C | YDL091C | 2.446864e-05 |
| 357 | YDR043C | YMR280C | 2.416850e-05 |
| 1824 | YER040W | YCR010C | 2.402678e-05 |
| 1328 | YDR043C | YAL054C | 2.399200e-05 |
| 128 | YDL170W | YKL112W | 2.377286e-05 |
| 6215 | YER040W | YKL071W | 2.315170e-05 |
| 223 | YER040W | YDR216W | 2.298749e-05 |
| 7922 | YOR032C | YJL217W | 2.297164e-05 |
| 8233 | YER040W | YLR130C | 2.288770e-05 |
| 833 | YGL254W | YHR136C | 2.279321e-05 |
| 9331 | YKL112W | YGL229C | 2.233116e-05 |
| 2928 | YER040W | YMR169C | 2.222405e-05 |
| 9950 | YOR032C | YKL062W | 2.159891e-05 |
| 1826 | YBL103C | YCR010C | 2.153017e-05 |
| 6021 | YKL062W | YDR043C | 2.129365e-05 |
| 5852 | YKL112W | YLL011W | 2.110915e-05 |

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| 7735 | YDL170W | YDR523C | 2.080357e-05 |
| 7219 | YKL112W | YLL033W | 2.072730e-05 |
| 2138 | YKL112W | YPL061W | 2.063347e-05 |
| 733 | YKL062W | YML123C | 2.040661e-05 |
| 7736 | YDR043C | YDR523C | 1.995620e-05 |
| 834 | YKL015W | YHR136C | 1.980063e-05 |
| 9840 | YDR216W | YHR087W | 1.974842e-05 |
| 6523 | YKL112W | YLR438W | 1.946194e-05 |
| 7518 | YOR032C | YFR022W | 1.935727e-05 |
| 9424 | YBL103C | YOR032C | 1.881462e-05 |
| 2932 | YDR216W | YMR169C | 1.861922e-05 |
| 4822 | YDL170W | YIL037C | 1.845615e-05 |
| 7221 | YER040W | YLL033W | 1.842544e-05 |
| 3025 | YBL103C | YNR046W | 1.814905e-05 |
| 2324 | YMR280C | YLR009W | 1.811048e-05 |
| 6440 | YDR043C | YLR276C | 1.784551e-05 |
| 1830 | YGL254W | YCR010C | 1.780305e-05 |
| 1214 | YKL062W | YHR018C | 1.774828e-05 |
| 1339 | YER040W | YAL054C | 1.757101e-05 |
| 522 | YDR043C | YGR142W | 1.699126e-05 |
| 8040 | YKL112W | YOR056C | 1.689480e-05 |
| 2546 | YKL112W | YOR388C | 1.669787e-05 |
| 2325 | YDL170W | YLR009W | 1.659497e-05 |
| 4720 | YDR043C | YDL160C | 1.653961e-05 |
| 2834 | YKL112W | YOR100C | 1.603619e-05 |
| 2547 | YDR216W | YOR388C | 1.600462e-05 |
| 2229 | YKL112W | YKR075C | 1.599917e-05 |
| 7628 | YGL254W | YAL062W | 1.597608e-05 |
| 6745 | YMR280C | YKR009C | 1.585847e-05 |
| 4721 | YDL170W | YDL160C | 1.577741e-05 |
| 5538 | YDR216W | YJR094C | 1.554942e-05 |
| 6145 | YMR280C | YDR258C | 1.544585e-05 |
| 4315 | YBL103C | YPL265W | 1.533936e-05 |
| 9021 | YKL062W | YDL110C | 1.526807e-05 |
| 5858 | YDL170W | YLL011W | 1.507655e-05 |
| 4232 | YKL062W | YGR067C | 1.502316e-05 |
| 7838 | YKL015W | YPL036W | 1.502199e-05 |
| 1832 | YKL112W | YCR010C | 1.459846e-05 |
| 9425 | YKL112W | YOR032C | 1.447197e-05 |
| 7428 | YDR043C | YNL270C | 1.433132e-05 |
| 3130 | YKL112W | YJR110W | 1.402890e-05 |
| 2838 | YER040W | YOR100C | 1.382148e-05 |
| 1467 | YBL103C | YFL014W | 1.368202e-05 |
| 3836 | YKL112W | YGR183C | 1.352707e-05 |
| 4427 | YDR216W | YKR056W | 1.341729e-05 |

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| 1124 | YDL170W | YGR043C | 1.301385e-05 |
| 2230 | YER040W | YKR075C | 1.299394e-05 |
| 6932 | YKL062W | YGL009C | 1.289146e-05 |
| 9336 | YDR216W | YGL229C | 1.248088e-05 |
| 7227 | YOR032C | YLL033W | 1.201057e-05 |
| 1343 | YDL170W | YAL054C | 1.196407e-05 |
| 4936 | YGL254W | YLR327C | 1.194683e-05 |
| 6444 | YDL170W | YLR276C | 1.164164e-05 |
| 2333 | YBL103C | YLR009W | 1.159344e-05 |
| 7927 | YDL170W | YJL217W | 1.140154e-05 |
| 6747 | YKL112W | YKR009C | 1.134916e-05 |
| 1471 | YKL112W | YFL014W | 1.127983e-05 |
| 2941 | YBL103C | YMR169C | 1.098467e-05 |
| 9144 | YKL062W | YER067W | 1.097955e-05 |
| 1215 | YER040W | YHR018C | 1.083133e-05 |
| 9338 | YBL103C | YGL229C | 1.082496e-05 |
| 7231 | YBL103C | YLL033W | 1.076115e-05 |
| 4130 | YDL170W | YMR064C | 1.073972e-05 |
| 9524 | YDR043C | YHR216W | 1.045144e-05 |
| 7929 | YER040W | YJL217W | 1.039800e-05 |
| 2231 | YKL062W | YKR075C | 1.039026e-05 |
| 525 | YER040W | YGR142W | 1.037287e-05 |
| 228 | YBL103C | YDR216W | 1.024234e-05 |
| 6224 | YOR032C | YKL071W | 1.019095e-05 |
| 4017 | YKL112W | YJR148W | 1.003964e-05 |
| 2750 | YBL103C | YPL012W | 9.716072e-06 |
| 3735 | YKL112W | YIL136W | 9.671371e-06 |
| 1841 | YKL015W | YCR010C | 9.255886e-06 |
| 9339 | YKL062W | YGL229C | 9.223619e-06 |
| 939 | YKL015W | YDR171W | 9.164611e-06 |
| 3220 | YDR043C | YMR193W | 8.846968e-06 |
| 2650 | YDL170W | YJL172W | 8.765911e-06 |
| 8050 | YMR280C | YOR056C | 8.730850e-06 |
| 4942 | YKL112W | YLR327C | 8.719970e-06 |
| 4133 | YKL015W | YMR064C | 8.676632e-06 |
| 2944 | YDR043C | YMR169C | 8.666203e-06 |
| 6227 | YDL170W | YKL071W | 8.418289e-06 |
| 2652 | YKL112W | YJL172W | 8.344594e-06 |
| 6530 | YKL062W | YLR438W | 8.248821e-06 |
| 9631 | YMR280C | YJL153C | 8.221192e-06 |
| 6321 | YKL015W | YNL194C | 8.092109e-06 |
| 1127 | YBL103C | YGR043C | 7.981064e-06 |
| 6830 | YDR043C | YKL015W | 7.920131e-06 |
| 2842 | YOR032C | YOR100C | 7.858714e-06 |
| 2560 | YOR032C | YOR388C | 7.775450e-06 |

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| 5039 | YMR280C | YDL091C | 7.742857e-06 |
| 2563 | YGL254W | YOR388C | 7.673306e-06 |
| 3737 | YKL015W | YIL136W | 7.634000e-06 |
| 141 | YER040W | YKL112W | 7.585626e-06 |
| 4321 | YMR280C | YPL265W | 7.562203e-06 |
| 6449 | YDR216W | YLR276C | 7.544046e-06 |
| 4826 | YDR043C | YIL037C | 7.505486e-06 |
| 7932 | YGL254W | YJL217W | 7.493570e-06 |
| 3738 | YOR032C | YIL136W | 7.300849e-06 |
| 9632 | YER040W | YJL153C | 7.289606e-06 |
| 9760 | YDR216W | YKL040C | 7.271380e-06 |
| 2947 | YOR032C | YMR169C | 7.011217e-06 |
| 9633 | YKL062W | YJL153C | 6.932814e-06 |
| 2654 | YMR280C | YJL172W | 6.897514e-06 |
| 5040 | YKL112W | YDL091C | 6.815323e-06 |
| 7530 | YMR280C | YFR022W | 6.623200e-06 |
| 4637 | YKL062W | YJL063C | 6.380821e-06 |
| 7441 | YDL170W | YNL270C | 6.323033e-06 |
| 8819 | YKL062W | YDR380W | 6.252150e-06 |
| 3338 | YKL062W | YGL254W | 6.230039e-06 |
| 4434 | YKL062W | YKR056W | 6.177072e-06 |
| 2846 | YDL170W | YOR100C | 6.089676e-06 |
| 8727 | YKL015W | YLR258W | 6.082714e-06 |
| 4138 | YER040W | YNR064C | 5.784629e-06 |
| 6833 | YDL170W | YKL015W | 5.579904e-06 |
| 8323 | YKL112W | YLR267W | 5.497778e-06 |
| 4540 | YDL170W | YCL064C | 5.435528e-06 |
| 6942 | YDR043C | YGL009C | 5.416631e-06 |
| 7937 | YBL103C | YJL217W | 5.410236e-06 |
| 7442 | YDR216W | YNL270C | 5.205863e-06 |
| 1958 | YBL103C | YDR384C | 5.189335e-06 |
| 4833 | YMR280C | YIL037C | 5.110947e-06 |
| 9763 | YGL254W | YKL040C | 5.073716e-06 |
| 5549 | YKL015W | YJR094C | 4.750102e-06 |
| 5943 | YGL254W | YNR028W | 4.728916e-06 |
| 9025 | YOR032C | YDL110C | 4.665576e-06 |
| 4641 | YDL170W | YJL063C | 4.660066e-06 |
| 7144 | YKL112W | YDR361C | 4.628863e-06 |
| 3932 | YKL062W | YER158C | 4.620258e-06 |
| 8824 | YDR043C | YDR380W | 4.581335e-06 |
| 2426 | YDR043C | YPL111W | 4.570775e-06 |
| 5729 | YDR216W | YJL088W | 4.563106e-06 |
| 4249 | YER040W | YGR067C | 4.538197e-06 |
| 6454 | YKL112W | YLR276C | 4.525177e-06 |
| 4544 | YDR043C | YCL064C | 4.335303e-06 |

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| 7145 | YER040W | YDR361C | 4.291178e-06 |
| 377 | YKL112W | YMR280C | 4.281128e-06 |
| 3225 | YGL254W | YMR193W | 4.210543e-06 |
| 7942 | YKL015W | YJL217W | 4.155309e-06 |
| 5047 | YDR043C | YDL091C | 4.129784e-06 |
| 9158 | YKL112W | YER067W | 4.089677e-06 |
| 3742 | YBL103C | YIL136W | 4.006699e-06 |
| 6167 | YDR043C | YDR258C | 3.994869e-06 |
| 1065 | YMR280C | YCR021C | 3.968059e-06 |
| 4645 | YDR216W | YJL063C | 3.884346e-06 |
| 1066 | YKL112W | YCR021C | 3.843331e-06 |
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| 5870 | YER040W | YLL011W | 3.831991e-06 |
| 3347 | YDR043C | YGL254W | 3.819941e-06 |
| 9160 | YKL015W | YER067W | 3.814344e-06 |
| 7943 | YKL112W | YJL217W | 3.784805e-06 |
| 3348 | YER040W | YGL254W | 3.779341e-06 |
| 9162 | YGL254W | YER067W | 3.775882e-06 |
| 4546 | YER040W | YCL064C | 3.749530e-06 |
| 2851 | YDR216W | YOR100C | 3.747063e-06 |
| 6025 | YKL015W | YDR043C | 3.733617e-06 |
| 5871 | YKL015W | YLL011W | 3.701246e-06 |
| 3421 | YDR216W | YLR174W | 3.687687e-06 |
| 7537 | YER040W | YFR022W | 3.684195e-06 |
| 4251 | YDL170W | YGR067C | 3.660468e-06 |
| 7765 | YMR280C | YDR523C | 3.576189e-06 |
| 7538 | YBL103C | YFR022W | 3.521667e-06 |
| 9352 | YER040W | YGL229C | 3.488473e-06 |
| 6662 | YDR216W | YNL037C | 3.466172e-06 |
| 1477 | YOR032C | YFL014W | 3.462118e-06 |
| 3422 | YMR280C | YLR174W | 3.402917e-06 |
| 6234 | YDR043C | YKL071W | 3.395999e-06 |
| 4739 | YDR216W | YDL160C | 3.382019e-06 |
| 7447 | YBL103C | YNL270C | 3.361308e-06 |
| 5219 | YDR043C | YHL028W | 3.354458e-06 |
| 7448 | YER040W | YNL270C | 3.335423e-06 |
| 4331 | YKL112W | YPL265W | 3.320012e-06 |
| 4333 | YER040W | YPL265W | 3.250735e-06 |
| 4965 | YKL062W | YLR327C | 3.208970e-06 |
| 6665 | YDL170W | YNL037C | 3.141530e-06 |
| 3041 | YDL170W | YNR046W | 3.120892e-06 |
| 9444 | YER040W | YOR032C | 3.065905e-06 |
| 5124 | YKL062W | YHR051W | 3.065417e-06 |
| 4742 | YKL112W | YDL160C | 3.042818e-06 |
| 2658 | YBL103C | YJL172W | 2.997725e-06 |

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| 4654 | YBL103C | YJL063C | 2.977507e-06 |
| 9535 | YDR216W | YHR216W | 2.959753e-06 |
| 9026 | YDR043C | YDL110C | 2.928778e-06 |
| 1534 | YBL103C | YOR348C | 2.927453e-06 |
| 4655 | YGL254W | YJL063C | 2.856963e-06 |
| 8122 | YDR043C | YBL042C | 2.835073e-06 |
| 7770 | YDR216W | YDR523C | 2.803375e-06 |
| 9028 | YDL170W | YDL110C | 2.757057e-06 |
| 1355 | YKL112W | YAL054C | 2.744895e-06 |
| 6947 | YKL112W | YGL009C | 2.743455e-06 |
| 149 | YGL254W | YKL112W | 2.727368e-06 |
| 7342 | YMR280C | YOR302W | 2.700377e-06 |
| 3869 | YOR032C | YGR183C | 2.659605e-06 |
| 8735 | YMR280C | YLR258W | 2.656563e-06 |
| 2578 | YKL015W | YOR388C | 2.655979e-06 |
| 9773 | YDR043C | YKL040C | 2.650948e-06 |
| 6458 | YGL254W | YLR276C | 2.624911e-06 |
| 9537 | YKL112W | YHR216W | 2.618341e-06 |
| 418 | YMR280C | YER040W | 2.603506e-06 |
| 7771 | YOR032C | YDR523C | 2.569077e-06 |
| 3351 | YMR280C | YGL254W | 2.537092e-06 |
| 9539 | YGL254W | YHR216W | 2.521926e-06 |
| 8550 | YER040W | YOL014W | 2.459148e-06 |
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| 1072 | YGL254W | YCR021C | 2.415506e-06 |
| 753 | YDR216W | YML123C | 2.412266e-06 |
| 1536 | YMR280C | YOR348C | 2.397289e-06 |
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| 4261 | YOR032C | YGR067C | 2.365293e-06 |
| 7453 | YOR032C | YNL270C | 2.355988e-06 |
| 8329 | YDL170W | YLR267W | 2.345593e-06 |
| 539 | YKL112W | YGR142W | 2.332661e-06 |
| 9974 | YBL103C | YKL062W | 2.328548e-06 |
| 3149 | YDR043C | YJR110W | 2.292513e-06 |
| 947 | YER040W | YDR171W | 2.264645e-06 |
| 8737 | YDR216W | YLR258W | 2.235055e-06 |
| 948 | YDR043C | YDR171W | 2.206772e-06 |
| 9451 | YGL254W | YOR032C | 2.190747e-06 |
| 1483 | YGL254W | YFL014W | 2.188471e-06 |
| 7772 | YBL103C | YDR523C | 2.181965e-06 |
| 4341 | YGL254W | YPL265W | 2.180645e-06 |
| 4036 | YMR280C | YJR148W | 2.170412e-06 |
| 7157 | YBL103C | YDR361C | 2.162694e-06 |
| 2163 | YKL015W | YPL061W | 2.158359e-06 |

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| 3045 | YMR280C | YNR046W | 2.157020e-06 |
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| 4660 | YDR043C | YJL063C | 2.122301e-06 |
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| 5958 | YDR216W | YNR028W | 2.053595e-06 |
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| 1966 | YDL170W | YDR384C | 1.969089e-06 |
| 544 | YDL170W | YGR142W | 1.894895e-06 |
| 860 | YOR032C | YHR136C | 1.893873e-06 |
| 243 | YKL112W | YDR216W | 1.849844e-06 |
| 9648 | YGL254W | YJL153C | 1.810807e-06 |
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| 1967 | YMR280C | YDR384C | 1.790257e-06 |
| 7253 | YMR280C | YLL033W | 1.787734e-06 |
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| 6244 | YDR216W | YKL071W | 1.753050e-06 |
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| 4344 | YKL015W | YPL265W | 1.667861e-06 |
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| 5630 | YDR216W | YIL155C | 1.634800e-06 |
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| 7551 | YDR043C | YFR022W | 1.615094e-06 |
| 8557 | YKL112W | YOL014W | 1.610283e-06 |
| 8464 | YGL254W | YHR029C | 1.604953e-06 |
| 9362 | YOR032C | YGL229C | 1.603476e-06 |
| 1362 | YKL062W | YAL054C | 1.593880e-06 |
| 6171 | YKL112W | YDR258C | 1.585309e-06 |
| 9035 | YDR216W | YDL110C | 1.579954e-06 |
| 2170 | YDR043C | YPL061W | 1.563278e-06 |
| 6245 | YKL062W | YKL071W | 1.549785e-06 |
| 9175 | YMR280C | YER067W | 1.477988e-06 |
| 1082 | YOR032C | YCR021C | 1.477241e-06 |
| 3875 | YER040W | YGR183C | 1.442289e-06 |
| 5059 | YKL015W | YDL091C | 1.437434e-06 |
| 2970 | YKL112W | YMR169C | 1.428194e-06 |
| 7463 | YGL254W | YNL270C | 1.426510e-06 |
| 864 | YDR216W | YHR136C | 1.411803e-06 |

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| 4667 | YER040W | YJL063C | 1.389297e-06 |
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| 2362 | YKL112W | YLR009W | 1.291328e-06 |
| 4346 | YDR216W | YPL265W | 1.287961e-06 |
| 548 | YKL062W | YGR142W | 1.281227e-06 |
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| 9546 | YER040W | YHR216W | 1.264038e-06 |
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| 9547 | YMR280C | YHR216W | 1.242194e-06 |
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| 5228 | YKL015W | YHL028W | 1.239132e-06 |
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| 6680 | YKL062W | YNL037C | 1.199350e-06 |
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| 4448 | YER040W | YKR056W | 1.141432e-06 |
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| 1369 | YOR032C | YAL054C | 1.124635e-06 |
| 7363 | YGL254W | YOR302W | 1.118812e-06 |
| 9863 | YMR280C | YHR087W | 1.116292e-06 |
| 1144 | YKL112W | YGR043C | 1.112887e-06 |
| 6682 | YER040W | YNL037C | 1.111894e-06 |
| 4348 | YDL170W | YPL265W | 1.094165e-06 |
| 4984 | YOR032C | YLR327C | 1.069947e-06 |
| 3364 | YOR032C | YGL254W | 1.048031e-06 |
| 1672 | YMR280C | YDL170W | 1.041926e-06 |
| 9039 | YMR280C | YDL110C | 1.041197e-06 |
| 6542 | YER040W | YLR438W | 1.040094e-06 |
| 9982 | YER040W | YKL062W | 1.034413e-06 |
| 9983 | YDL170W | YKL062W | 1.032724e-06 |
| 2878 | YKL015W | YOR100C | 1.031000e-06 |
| 956 | YMR280C | YDR171W | 1.029089e-06 |
| 1550 | YGL254W | YOR348C | 1.027904e-06 |

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| 2684 | YGL254W | YJL172W | 1.008334e-06 |
| 5134 | YDR043C | YHR051W | 9.971306e-07 |
| 3053 | YER040W | YNR046W | 9.909783e-07 |
| 3753 | YDR216W | YIL136W | 9.857975e-07 |
| 7650 | YMR280C | YAL062W | 9.848851e-07 |
| 1145 | YDR216W | YGR043C | 9.804780e-07 |
| 8470 | YDR043C | YHR029C | 9.783838e-07 |
| 2685 | YKL015W | YJL172W | 9.650616e-07 |
| 5880 | YBL103C | YLL011W | 9.559111e-07 |
| 7165 | YGL254W | YDR361C | 9.317072e-07 |
| 3754 | YMR280C | YIL136W | 9.135168e-07 |
| 2177 | YMR280C | YPL061W | 8.869984e-07 |
| 630 | YKL112W | YNL036W | 8.823280e-07 |
| 3241 | YKL112W | YMR193W | 8.810514e-07 |
| 5639 | YKL112W | YIL155C | 8.776311e-07 |
| 7166 | YDL170W | YDR361C | 8.761235e-07 |
| 8472 | YMR280C | YHR029C | 8.759649e-07 |
| 7167 | YKL015W | YDR361C | 8.682706e-07 |
| 7365 | YDR043C | YOR302W | 8.664523e-07 |
| 5973 | YMR280C | YNR028W | 8.639333e-07 |
| 2431 | YBL103C | YPL111W | 8.596605e-07 |
| 8268 | YKL015W | YLR130C | 8.561111e-07 |
| 6255 | YKL112W | YKL071W | 8.486958e-07 |
| 4856 | YKL015W | YIL037C | 8.468379e-07 |
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| 9985 | YGL254W | YKL062W | 8.364092e-07 |
| 6256 | YGL254W | YKL071W | 8.352567e-07 |
| 4045 | YER040W | YJR148W | 8.338371e-07 |
| 6961 | YER040W | YGL009C | 8.316683e-07 |
| 7260 | YGL254W | YLL033W | 8.290746e-07 |
| 9661 | YBL103C | YJL153C | 8.286573e-07 |
| 4352 | YDR043C | YPL265W | 8.229360e-07 |
| 6031 | YBL103C | YDR043C | 8.191253e-07 |
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| 7654 | YDL170W | YAL062W | 8.165204e-07 |
| 8270 | YDR043C | YLR130C | 8.090509e-07 |
| 6032 | YER040W | YDR043C | 8.042436e-07 |
| 7263 | YDR216W | YLL033W | 7.994614e-07 |
| 5975 | YDR043C | YNR028W | 7.923494e-07 |
| 2786 | YDL170W | YPL012W | 7.880993e-07 |
| 5348 | YKL015W | YMR229C | 7.879052e-07 |
| 3947 | YMR280C | YER158C | 7.858503e-07 |
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| 1149 | YER040W | YGR043C | 7.764863e-07 |

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| 9477 | YDR216W | YOR032C | 7.679790e-07 |
| 2788 | YER040W | YPL012W | 7.669801e-07 |
| 4279 | YGL254W | YGR067C | 7.661517e-07 |
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| 7883 | YDR216W | YPL036W | 7.387493e-07 |
| 169 | YDR216W | YKL112W | 7.366588e-07 |
| 5642 | YMR280C | YIL155C | 7.361374e-07 |
| 9557 | YKL062W | YHR216W | 7.351072e-07 |
| 247 | YMR280C | YDR216W | 7.329538e-07 |
| 3884 | YDL170W | YGR183C | 7.305360e-07 |
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| 4456 | YGL254W | YKR056W | 7.195516e-07 |
| 3171 | YDR216W | YJR110W | 7.138000e-07 |
| 557 | YBL103C | YGR142W | 7.092592e-07 |
| 6871 | YBL103C | YKL015W | 7.002450e-07 |
| 6264 | YMR280C | YKL071W | 6.904484e-07 |
| 3376 | YKL112W | YGL254W | 6.767052e-07 |
| 1871 | YDR043C | YCR010C | 6.712263e-07 |
| 632 | YDR043C | YNL036W | 6.706271e-07 |
| 1680 | YGL254W | YDL170W | 6.693954e-07 |
| 7373 | YKL062W | YOR302W | 6.677960e-07 |
| 8077 | YDL170W | YOR056C | 6.658879e-07 |
| 4160 | YOR032C | YNR064C | 6.650012e-07 |
| 2186 | YOR032C | YPL061W | 6.625361e-07 |
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| 3057 | YKL112W | YNR046W | 6.503307e-07 |
| 170 | YKL015W | YKL112W | 6.432367e-07 |
| 8567 | YGL254W | YOL014W | 6.424376e-07 |
| 171 | YMR280C | YKL112W | 6.413236e-07 |
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| 8569 | YKL015W | YOL014W | 6.323808e-07 |
| 3175 | YKL062W | YJR110W | 6.300661e-07 |
| 7660 | YDR043C | YAL062W | 6.185747e-07 |
| 427 | YBL103C | YER040W | 6.169015e-07 |
| 2793 | YGL254W | YPL012W | 5.990736e-07 |
| 1876 | YMR280C | YCR010C | 5.978319e-07 |
| 4580 | YGL254W | YCL064C | 5.973382e-07 |
| 1742 | YER040W | YBR054W | 5.938857e-07 |
| 4282 | YBL103C | YGR067C | 5.922053e-07 |
| 6477 | YKL015W | YLR276C | 5.916423e-07 |
| 5235 | YMR280C | YHL028W | 5.907707e-07 |
| 250 | YGL254W | YDR216W | 5.902564e-07 |
| 9668 | YDR216W | YJL153C | 5.740501e-07 |

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| 8141 | YDR216W | YBL042C | 5.714690e-07 |
| 1098 | YKL015W | YCR021C | 5.696122e-07 |
| 5071 | YER040W | YDL091C | 5.683241e-07 |
| 1385 | YKL015W | YAL054C | 5.678535e-07 |
| 8078 | YDR216W | YOR056C | 5.630600e-07 |
| 8573 | YDR043C | YOL014W | 5.625008e-07 |
| 4865 | YBL103C | YIL037C | 5.614932e-07 |
| 8079 | YKL015W | YOR056C | 5.599475e-07 |
| 881 | YKL112W | YHR136C | 5.596740e-07 |
| 9049 | YER040W | YDL110C | 5.589546e-07 |
| 4359 | YKL062W | YPL265W | 5.552876e-07 |
| 6549 | YMR280C | YLR438W | 5.550476e-07 |
| 8574 | YDR216W | YOL014W | 5.432053e-07 |
| 1557 | YOR032C | YOR348C | 5.431034e-07 |
| 4867 | YDR216W | YIL037C | 5.297112e-07 |
| 6277 | YKL015W | YKL071W | 5.276529e-07 |
| 1743 | YDR216W | YBR054W | 5.238594e-07 |
| 7383 | YDR216W | YOR302W | 5.237570e-07 |
| 8483 | YKL015W | YHR029C | 5.236999e-07 |
| 1685 | YDR216W | YDL170W | 5.192202e-07 |
| 5981 | YKL062W | YNR028W | 5.162115e-07 |
| 3888 | YDR216W | YGR183C | 5.107006e-07 |
| 6980 | YDR216W | YGL009C | 5.106374e-07 |
| 5236 | YOR032C | YHL028W | 5.081974e-07 |
| 3180 | YOR032C | YJR110W | 5.080778e-07 |
| 8143 | YMR280C | YBL042C | 5.073792e-07 |
| 884 | YER040W | YHR136C | 5.021893e-07 |
| 3181 | YMR280C | YJR110W | 4.998641e-07 |
| 6982 | YDL170W | YGL009C | 4.970752e-07 |
| 6983 | YKL015W | YGL009C | 4.964949e-07 |
| 964 | YKL112W | YDR171W | 4.947203e-07 |
| 431 | YKL062W | YER040W | 4.895102e-07 |
| 8280 | YOR032C | YLR130C | 4.781167e-07 |
| 4767 | YMR280C | YDL160C | 4.769419e-07 |
| 8751 | YKL112W | YLR258W | 4.740989e-07 |
| 5882 | YOR032C | YLL011W | 4.713644e-07 |
| 2260 | YBL103C | YKR075C | 4.684034e-07 |
| 6788 | YKL015W | YKR009C | 4.643860e-07 |
| 780 | YKL112W | YML123C | 4.601309e-07 |
| 6882 | YGL254W | YKL015W | 4.552744e-07 |
| 1236 | YBL103C | YHR018C | 4.530883e-07 |
| 8841 | YMR280C | YDR380W | 4.485931e-07 |
| 781 | YOR032C | YML123C | 4.472986e-07 |
| 2261 | YOR032C | YKR075C | 4.466655e-07 |
| 3761 | YDR043C | YIL136W | 4.448584e-07 |

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| 5883 | YDR216W | YLL011W | 4.434138e-07 |
| 7793 | YGL254W | YDR523C | 4.390647e-07 |
| 432 | YOR032C | YER040W | 4.352617e-07 |
| 6792 | YOR032C | YKR009C | 4.344212e-07 |
| 7579 | YGL254W | YFR022W | 4.316667e-07 |
| 4172 | YKL062W | YNR064C | 4.288806e-07 |
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| 8931 | YMR280C | YLL034C | 4.248749e-07 |
| 9671 | YOR032C | YJL153C | 4.238481e-07 |
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| 4289 | YKL015W | YGR067C | 4.148525e-07 |
| 2888 | YGL254W | YOR100C | 4.081420e-07 |
| 1744 | YBL103C | YBR054W | 4.029918e-07 |
| 6795 | YGL254W | YKR009C | 4.005733e-07 |
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| 7045 | YMR280C | YPR002W | 3.823072e-07 |
| 6887 | YDR216W | YKL015W | 3.821312e-07 |
| 889 | YBL103C | YHR136C | 3.793572e-07 |
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| 6337 | YDL170W | YNL194C | 3.729228e-07 |
| 3393 | YDR216W | YGL254W | 3.724096e-07 |
| 2058 | YDR216W | YER150W | 3.672922e-07 |
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| 1987 | YOR032C | YDR384C | 3.586172e-07 |
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| 6484 | YBL103C | YLR276C | 3.442676e-07 |
| 6696 | YGL254W | YNL037C | 3.369853e-07 |
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| 4592 | YDR216W | YCL064C | 3.292035e-07 |
| 7392 | YKL015W | YOR302W | 3.283913e-07 |
| 3894 | YGL254W | YGR183C | 3.276725e-07 |
| 3952 | YDL170W | YER158C | 3.269552e-07 |
| 4777 | YKL062W | YDL160C | 3.264302e-07 |
| 4680 | YKL015W | YJL063C | 3.219492e-07 |
| 7587 | YDR216W | YFR022W | 3.217649e-07 |
| 2061 | YMR280C | YER150W | 3.207887e-07 |
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| 9248 | YBL103C | YLR178C | 3.097832e-07 |
| 5756 | YBL103C | YJL088W | 3.096002e-07 |
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| 5995 | YOR032C | YNR028W | 3.036747e-07 |
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| 4190 | YGL254W | YNR064C | 3.013679e-07 |
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| 1747 | YMR280C | YBR054W | 2.971727e-07 |
| 4779 | YGL254W | YDL160C | 2.961868e-07 |
| 4370 | YOR032C | YPL265W | 2.961623e-07 |
| 2996 | YGL254W | YMR169C | 2.958872e-07 |
| 1991 | YKL015W | YDR384C | 2.958298e-07 |
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| 7394 | YOR032C | YOR302W | 2.898420e-07 |
| 3070 | YDR216W | YNR046W | 2.884668e-07 |
| 9379 | YDL170W | YGL229C | 2.876939e-07 |
| 1992 | YGL254W | YDR384C | 2.825300e-07 |
| 1889 | YOR032C | YCR010C | 2.804243e-07 |
| 7190 | YDR216W | YDR361C | 2.792746e-07 |
| 5760 | YDR043C | YJL088W | 2.790037e-07 |
| 1691 | YKL015W | YDL170W | 2.758108e-07 |
| 4061 | YDR043C | YJR148W | 2.724680e-07 |
| 6698 | YOR032C | YNL037C | 2.669472e-07 |
| 9877 | YGL254W | YHR087W | 2.651968e-07 |
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| 4888 | YGL254W | YIL037C | 2.591776e-07 |
| 4889 | YOR032C | YIL037C | 2.590316e-07 |
| 4685 | YOR032C | YJL063C | 2.589502e-07 |
| 5650 | YBL103C | YIL155C | 2.560221e-07 |
| 4780 | YOR032C | YDL160C | 2.526065e-07 |
| 6196 | YGL254W | YDR258C | 2.519042e-07 |
| 5457 | YDR216W | YOR206W | 2.515054e-07 |
| 3449 | YBL103C | YLR174W | 2.514381e-07 |
| 2696 | YDR216W | YJL172W | 2.492930e-07 |
| 6558 | YDR043C | YLR438W | 2.492428e-07 |
| 8773 | YDR043C | YLR258W | 2.486179e-07 |
| 2384 | YDR216W | YLR009W | 2.461493e-07 |
| 8349 | YER040W | YLR267W | 2.413679e-07 |

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|------|---------|---------|--------------|
| 3197 | YKL015W | YJR110W | 2.393831e-07 |
| 5242 | YDR216W | YHL028W | 2.355627e-07 |
| 5458 | YOR032C | YOR206W | 2.355047e-07 |
| 3074 | YOR032C | YNR046W | 2.338360e-07 |
| 6197 | YOR032C | YDR258C | 2.335031e-07 |
| 3252 | YDR216W | YMR193W | 2.304392e-07 |
| 573 | YMR280C | YGR142W | 2.302145e-07 |
| 8350 | YMR280C | YLR267W | 2.280940e-07 |
| 9682 | YKL015W | YJL153C | 2.231007e-07 |
| 1751 | YKL015W | YBR054W | 2.224510e-07 |
| 792 | YDL170W | YML123C | 2.193569e-07 |
| 793 | YBL103C | YML123C | 2.191418e-07 |
| 5360 | YKL062W | YMR229C | 2.178292e-07 |
| 5361 | YMR280C | YMR229C | 2.171349e-07 |
| 7671 | YBL103C | YAL062W | 2.164409e-07 |
| 2389 | YKL015W | YLR009W | 2.139381e-07 |
| 6342 | YER040W | YNL194C | 2.137419e-07 |
| 9879 | YDR043C | YHR087W | 2.093988e-07 |
| 2391 | YOR032C | YLR009W | 2.083739e-07 |
| 5080 | YBL103C | YDL091C | 2.060509e-07 |
| 5243 | YER040W | YHL028W | 2.059984e-07 |
| 9880 | YER040W | YHR087W | 2.000043e-07 |
| 6492 | YOR032C | YLR276C | 1.947101e-07 |
| 4196 | YDR216W | YNR064C | 1.920942e-07 |
| 7194 | YOR032C | YDR361C | 1.849657e-07 |
| 5362 | YOR032C | YMR229C | 1.833765e-07 |
| 6047 | YDL170W | YDR043C | 1.816037e-07 |
| 4470 | YDL170W | YKR056W | 1.795745e-07 |
| 8596 | YOR032C | YOL014W | 1.795322e-07 |
| 8094 | YOR032C | YOR056C | 1.788916e-07 |
| 8856 | YKL112W | YDR380W | 1.766264e-07 |
| 2442 | YDL170W | YPL111W | 1.739175e-07 |
| 1997 | YDR216W | YDR384C | 1.728369e-07 |
| 438 | YKL112W | YER040W | 1.726597e-07 |
| 8632 | YKL062W | YNR053C | 1.726104e-07 |
| 8096 | YGL254W | YOR056C | 1.716742e-07 |
| 3076 | YGL254W | YNR046W | 1.705496e-07 |
| 978 | YGL254W | YDR171W | 1.668875e-07 |
| 2066 | YGL254W | YER150W | 1.667044e-07 |
| 1572 | YKL112W | YOR348C | 1.609744e-07 |
| 8353 | YGL254W | YLR267W | 1.587609e-07 |
| 4072 | YKL062W | YJR148W | 1.583843e-07 |
| 2274 | YDR216W | YKR075C | 1.583642e-07 |
| 5467 | YBL103C | YOR206W | 1.540753e-07 |
| 1245 | YKL112W | YHR018C | 1.535501e-07 |

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|------|---------|---------|--------------|
| 6344 | YMR280C | YNL194C | 1.528917e-07 |
| 3960 | YER040W | YER158C | 1.519059e-07 |
| 9883 | YBL103C | YHR087W | 1.455193e-07 |
| 274 | YOR032C | YDR216W | 1.452130e-07 |
| 4792 | YKL015W | YDL160C | 1.438340e-07 |
| 2277 | YGL254W | YKR075C | 1.437970e-07 |
| 1246 | YDL170W | YHR018C | 1.433464e-07 |
| 1247 | YOR032C | YHR018C | 1.420782e-07 |
| 5770 | YOR032C | YJL088W | 1.357260e-07 |
| 2397 | YGL254W | YLR009W | 1.356856e-07 |
| 8159 | YKL015W | YBL042C | 1.335370e-07 |
| 6345 | YOR032C | YNL194C | 1.322515e-07 |
| 7053 | YDR216W | YPR002W | 1.279618e-07 |
| 9389 | YKL015W | YGL229C | 1.251679e-07 |
| 8860 | YER040W | YDR380W | 1.235397e-07 |
| 3256 | YMR280C | YMR193W | 1.226089e-07 |
| 587 | YDR216W | YGR142W | 1.222716e-07 |
| 6346 | YDR216W | YNL194C | 1.216007e-07 |
| 278 | YDR043C | YDR216W | 1.180717e-07 |
| 5473 | YKL112W | YOR206W | 1.178267e-07 |
| 5150 | YOR032C | YHR051W | 1.134171e-07 |
| 8636 | YKL112W | YNR053C | 1.105646e-07 |
| 5249 | YBL103C | YHL028W | 1.093626e-07 |
| 4082 | YKL015W | YJR148W | 1.055341e-07 |
| 1181 | YKL015W | YGR043C | 1.046240e-07 |
| 9578 | YDL170W | YHR216W | 1.034528e-07 |
| 8867 | YDL170W | YDR380W | 1.024931e-07 |
| 655 | YOR032C | YNL036W | 1.008842e-07 |
| 5781 | YMR280C | YJL088W | 9.798656e-08 |
| 5782 | YGL254W | YJL088W | 9.710270e-08 |
| 7058 | YKL015W | YPR002W | 9.284758e-08 |
| 8791 | YOR032C | YLR258W | 9.224313e-08 |
| 594 | YKL015W | YGR142W | 9.173766e-08 |
| 4478 | YBL103C | YKR056W | 8.809370e-08 |
| 657 | YBL103C | YNL036W | 8.660454e-08 |
| 3461 | YER040W | YLR174W | 8.590534e-08 |
| 4088 | YGL254W | YJR148W | 8.359196e-08 |
| 3261 | YER040W | YMR193W | 8.144738e-08 |
| 8870 | YBL103C | YDR380W | 7.782381e-08 |
| 7687 | YKL015W | YAL062W | 7.654164e-08 |
| 7688 | YOR032C | YAL062W | 7.389701e-08 |
| 9266 | YDR043C | YLR178C | 7.364270e-08 |
| 4481 | YOR032C | YKR056W | 7.055061e-08 |
| 4482 | YKL015W | YKR056W | 7.016066e-08 |
| 3098 | YKL015W | YNR046W | 6.992371e-08 |

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|------|---------|---------|--------------|
| 5481 | YDL170W | YOR206W | 6.966028e-08 |
| 3464 | YOR032C | YLR174W | 6.930614e-08 |
| 5482 | YER040W | YOR206W | 6.868510e-08 |
| 3465 | YGL254W | YLR174W | 6.782377e-08 |
| 8874 | YOR032C | YDR380W | 6.652638e-08 |
| 5666 | YDL170W | YIL155C | 6.637913e-08 |
| 9269 | YKL112W | YLR178C | 6.612156e-08 |
| 3645 | YDR043C | YDL018C | 6.604682e-08 |
| 5374 | YBL103C | YMR229C | 6.362157e-08 |
| 9890 | YKL112W | YHR087W | 6.215972e-08 |
| 2072 | YDR043C | YER150W | 6.178454e-08 |
| 5091 | YDR216W | YDL091C | 6.084416e-08 |
| 658 | YDL170W | YNL036W | 5.918942e-08 |
| 659 | YER040W | YNL036W | 5.891908e-08 |
| 1258 | YDR043C | YHR018C | 5.670279e-08 |
| 3469 | YKL015W | YLR174W | 5.463119e-08 |
| 5092 | YGL254W | YDL091C | 5.443634e-08 |
| 3470 | YKL112W | YLR174W | 5.378642e-08 |
| 2076 | YOR032C | YER150W | 4.948199e-08 |
| 8796 | YER040W | YLR258W | 4.891328e-08 |
| 1769 | YKL062W | YBR054W | 4.859406e-08 |
| 8649 | YMR280C | YNR053C | 4.490586e-08 |
| 4095 | YDR216W | YJR148W | 4.453732e-08 |
| 7068 | YDR043C | YPR002W | 4.398260e-08 |
| 2291 | YKL015W | YKR075C | 4.288657e-08 |
| 3784 | YGL254W | YIL136W | 4.173601e-08 |
| 7695 | YDR216W | YAL062W | 3.975500e-08 |
| 5792 | YKL015W | YJL088W | 3.912847e-08 |
| 5257 | YKL112W | YHL028W | 3.819907e-08 |
| 5679 | YER040W | YIL155C | 3.699628e-08 |
| 8171 | YKL062W | YBL042C | 3.641969e-08 |
| 1262 | YMR280C | YHR018C | 3.501455e-08 |
| 5165 | YER040W | YHR051W | 3.475488e-08 |
| 5493 | YKL015W | YOR206W | 3.316992e-08 |
| 5167 | YDL170W | YHR051W | 3.160903e-08 |
| 5258 | YDL170W | YHL028W | 3.132570e-08 |
| 3274 | YDL170W | YMR193W | 3.127197e-08 |
| 5495 | YGL254W | YOR206W | 2.933707e-08 |
| 3275 | YBL103C | YMR193W | 2.901609e-08 |
| 3276 | YOR032C | YMR193W | 2.894428e-08 |
| 3983 | YGL254W | YER158C | 2.875559e-08 |
| 8177 | YDL170W | YBL042C | 2.751032e-08 |
| 8798 | YBL103C | YLR258W | 2.741625e-08 |
| 8178 | YBL103C | YBL042C | 2.737797e-08 |
| 5266 | YGL254W | YHL028W | 2.470341e-08 |

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|------|---------|---------|--------------|
| 8181 | YGL254W | YBL042C | 2.465432e-08 |
| 6062 | YGL254W | YDR043C | 2.352904e-08 |
| 7081 | YKL062W | YPR002W | 2.265495e-08 |
| 1268 | YKL015W | YHR018C | 2.214708e-08 |
| 9087 | YKL112W | YDL110C | 2.177746e-08 |
| 8893 | YKL015W | YDR380W | 2.176031e-08 |
| 5392 | YGL254W | YMR229C | 2.065439e-08 |
| 5176 | YKL015W | YHR051W | 1.951626e-08 |
| 5177 | YDR216W | YHR051W | 1.936570e-08 |
| 9286 | YDR216W | YLR178C | 1.933329e-08 |
| 3988 | YDR216W | YER158C | 1.929950e-08 |
| 5179 | YBL103C | YHR051W | 1.898659e-08 |
| 1776 | YKL112W | YBR054W | 1.877532e-08 |
| 6366 | YKL112W | YNL194C | 1.860593e-08 |
| 9289 | YOR032C | YLR178C | 1.681573e-08 |
| 7085 | YOR032C | YPR002W | 1.638367e-08 |
| 998 | YOR032C | YDR171W | 1.567563e-08 |
| 1780 | YDR043C | YBR054W | 1.552947e-08 |
| 1276 | YDR216W | YHR018C | 1.531931e-08 |
| 3563 | YER040W | YER002W | 1.429458e-08 |
| 8895 | YGL254W | YDR380W | 1.421348e-08 |
| 8376 | YDR216W | YLR267W | 1.419710e-08 |
| 8966 | YKL112W | YLL034C | 1.384586e-08 |
| 6074 | YMR280C | YDR043C | 1.375462e-08 |
| 8896 | YDR216W | YDR380W | 1.361437e-08 |
| 5398 | YDR216W | YMR229C | 1.334220e-08 |
| 3662 | YKL112W | YDL018C | 1.307774e-08 |
| 8377 | YOR032C | YLR267W | 1.286995e-08 |
| 8967 | YOR032C | YLL034C | 1.281572e-08 |
| 8192 | YER040W | YBL042C | 1.246717e-08 |
| 3564 | YKL112W | YER002W | 1.233222e-08 |
| 5187 | YGL254W | YHR051W | 1.223427e-08 |
| 3663 | YER040W | YDL018C | 1.209428e-08 |
| 6585 | YKL015W | YLR438W | 1.195342e-08 |
| 475 | YDR216W | YER040W | 1.195278e-08 |
| 8662 | YOR032C | YNR053C | 1.144617e-08 |
| 3665 | YBL103C | YDL018C | 1.132389e-08 |
| 9291 | YGL254W | YLR178C | 1.124196e-08 |
| 6586 | YDR216W | YLR438W | 1.123959e-08 |
| 3567 | YOR032C | YER002W | 1.115111e-08 |
| 2092 | YKL112W | YER150W | 1.104225e-08 |
| 7092 | YGL254W | YPR002W | 1.094152e-08 |
| 8663 | YDL170W | YNR053C | 1.090977e-08 |
| 3667 | YKL062W | YDL018C | 1.083190e-08 |
| 8970 | YBL103C | YLL034C | 1.058461e-08 |

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|------|---------|---------|--------------|
| 3570 | YKL015W | YER002W | 9.790809e-09 |
| 5693 | YGL254W | YIL155C | 9.617025e-09 |
| 6588 | YGL254W | YLR438W | 9.403447e-09 |
| 3670 | YMR280C | YDL018C | 9.335947e-09 |
| 8387 | YKL015W | YLR267W | 8.984958e-09 |
| 6591 | YOR032C | YLR438W | 8.605294e-09 |
| 692 | YKL015W | YNL036W | 8.431043e-09 |
| 2472 | YMR280C | YPL111W | 7.946891e-09 |
| 1791 | YOR032C | YBR054W | 7.832869e-09 |
| 480 | YGL254W | YER040W | 7.808352e-09 |
| 693 | YGL254W | YNL036W | 7.627300e-09 |
| 8668 | YER040W | YNR053C | 7.309328e-09 |
| 3289 | YKL015W | YMR193W | 7.229978e-09 |
| 8391 | YKL062W | YLR267W | 7.151841e-09 |
| 489 | YKL015W | YER040W | 6.583925e-09 |
| 2477 | YGL254W | YPL111W | 6.048505e-09 |
| 6380 | YBL103C | YNL194C | 5.999192e-09 |
| 6381 | YDR043C | YNL194C | 5.560139e-09 |
| 8978 | YKL015W | YLL034C | 5.409282e-09 |
| 3676 | YDL170W | YDL018C | 5.135293e-09 |
| 8672 | YGL254W | YNR053C | 4.714647e-09 |
| 1294 | YGL254W | YHR018C | 4.640672e-09 |
| 2484 | YDR216W | YPL111W | 4.509132e-09 |
| 8983 | YER040W | YLL034C | 4.129122e-09 |
| 3683 | YKL015W | YDL018C | 4.087688e-09 |
| 8986 | YDL170W | YLL034C | 3.750259e-09 |
| 3580 | YDL170W | YER002W | 3.519412e-09 |
| 2489 | YKL015W | YPL111W | 3.388154e-09 |
| 3581 | YBL103C | YER002W | 3.267304e-09 |
| 8681 | YBL103C | YNR053C | 2.937690e-09 |
| 2490 | YOR032C | YPL111W | 2.889436e-09 |
| 3691 | YOR032C | YDL018C | 2.502677e-09 |
| 3692 | YDR216W | YDL018C | 2.498999e-09 |
| 6091 | YDR216W | YDR043C | 2.445018e-09 |
| 3589 | YDR216W | YER002W | 2.032706e-09 |
| 8690 | YKL015W | YNR053C | 1.967438e-09 |
| 3696 | YGL254W | YDL018C | 1.820362e-09 |
| 8993 | YDR216W | YLL034C | 1.675807e-09 |
| 8695 | YDR216W | YNR053C | 1.391757e-09 |
| 8996 | YGL254W | YLL034C | 1.344210e-09 |
| 3595 | YGL254W | YER002W | 1.177156e-09 |
| 6395 | YGL254W | YNL194C | 1.158014e-09 |

[1] "network After:"

| | Regulator | TargetGene | prob |
|-----|-----------|------------|--------------|
| 301 | YOR032C | YOR032C | 1.000000e+00 |

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|------|---------|---------|--------------|
| 1602 | YDR216W | YDR216W | 1.000000e+00 |
| 2102 | YDL170W | YDL170W | 1.000000e+00 |
| 2202 | YKL062W | YKL062W | 1.000000e+00 |
| 2203 | YGL254W | YGL254W | 1.000000e+00 |
| 2301 | YKL015W | YKL015W | 1.000000e+00 |
| 2501 | YKL112W | YKL112W | 1.000000e+00 |
| 3401 | YMR280C | YMR280C | 1.000000e+00 |
| 3701 | YDR043C | YDR043C | 1.000000e+00 |
| 5702 | YER040W | YER040W | 1.000000e+00 |
| 6101 | YKL112W | YNL270C | 1.000000e+00 |
| 7601 | YDL170W | YCR010C | 1.000000e+00 |
| 8801 | YKL062W | YKR009C | 1.000000e+00 |
| 9801 | YDL170W | YJR110W | 1.000000e+00 |
| 9901 | YKL062W | YDR216W | 1.000000e+00 |
| 3703 | YKL062W | YIL136W | 1.000000e+00 |
| 7104 | YKL062W | YDR361C | 1.000000e+00 |
| 904 | YDR216W | YDR171W | 1.000000e+00 |
| 5303 | YER040W | YMR229C | 1.000000e+00 |
| 4903 | YBL103C | YLR327C | 1.000000e+00 |
| 2005 | YKL015W | YER150W | 9.999999e-01 |
| 2305 | YDR043C | YLR009W | 9.999997e-01 |
| 1002 | YDR043C | YCR021C | 9.999784e-01 |
| 9203 | YKL062W | YLR178C | 9.999588e-01 |
| 3503 | YDR043C | YER002W | 9.926295e-01 |
| 1603 | YER040W | YDL170W | 9.903681e-01 |
| 7004 | YBL103C | YPR002W | 9.882139e-01 |
| 605 | YMR280C | YNL036W | 9.870398e-01 |
| 9702 | YKL015W | YKL040C | 9.828064e-01 |
| 8405 | YDL170W | YHR029C | 9.759532e-01 |
| 1104 | YKL062W | YGR043C | 9.096228e-01 |
| 404 | YDL170W | YER040W | 8.727256e-01 |
| 2405 | YKL062W | YPL111W | 8.450150e-01 |
| 7005 | YER040W | YPR002W | 8.164570e-01 |
| 805 | YKL062W | YHR136C | 6.882579e-01 |
| 3005 | YKL062W | YNR046W | 6.295850e-01 |
| 2805 | YBL103C | YOR100C | 5.552321e-01 |
| 1508 | YDL170W | YOR348C | 5.286012e-01 |
| 3904 | YDR043C | YER158C | 5.123184e-01 |
| 1509 | YDR216W | YOR348C | 4.627022e-01 |
| 4505 | YKL062W | YCL064C | 4.302623e-01 |
| 3506 | YKL062W | YER002W | 4.202709e-01 |
| 3006 | YDR043C | YNR046W | 4.069155e-01 |
| 8906 | YDR043C | YLL034C | 3.694592e-01 |
| 4406 | YMR280C | YKR056W | 3.552051e-01 |
| 5207 | YKL062W | YHL028W | 3.319017e-01 |

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| 8907 | YKL062W | YLL034C | 3.147426e-01 |
| 2406 | YKL112W | YPL111W | 3.118635e-01 |
| 6110 | YKL015W | YDR258C | 2.726643e-01 |
| 8408 | YER040W | YHR029C | 2.620775e-01 |
| 8409 | YKL112W | YHR029C | 2.182628e-01 |
| 9105 | YDR043C | YER067W | 2.008918e-01 |
| 7006 | YDL170W | YPR002W | 1.717569e-01 |
| 2707 | YDR043C | YPL012W | 1.621825e-01 |
| 4204 | YMR280C | YGR067C | 9.326290e-02 |
| 8706 | YKL062W | YLR258W | 8.575580e-02 |
| 7805 | YKL062W | YPL036W | 8.001430e-02 |
| 8506 | YKL062W | YOL014W | 7.639610e-02 |
| 1306 | YMR280C | YAL054C | 6.050860e-02 |
| 3207 | YKL062W | YMR193W | 5.076040e-02 |
| 2008 | YDL170W | YER150W | 3.848110e-02 |
| 2009 | YBL103C | YER150W | 3.700350e-02 |
| 6119 | YBL103C | YDR258C | 3.174569e-02 |
| 4508 | YMR280C | YCL064C | 3.002860e-02 |
| 3407 | YDR043C | YLR174W | 2.925340e-02 |
| 5706 | YDL170W | YJL088W | 2.902040e-02 |
| 1512 | YKL062W | YOR348C | 2.571560e-02 |
| 9607 | YKL112W | YJL153C | 2.486470e-02 |
| 709 | YDR043C | YML123C | 2.458570e-02 |
| 5009 | YKL062W | YDL091C | 2.103520e-02 |
| 5407 | YKL062W | YOR206W | 2.060740e-02 |
| 922 | YKL062W | YDR171W | 1.930490e-02 |
| 7806 | YBL103C | YPL036W | 1.577170e-02 |
| 1513 | YKL015W | YOR348C | 1.477050e-02 |
| 1710 | YGL254W | YBR054W | 1.424450e-02 |
| 6706 | YDR043C | YKR009C | 1.127072e-02 |
| 4613 | YKL112W | YJL063C | 1.119170e-02 |
| 815 | YDR043C | YHR136C | 9.952100e-03 |
| 2503 | YDR043C | YOR388C | 8.822526e-03 |
| 9916 | YKL015W | YKL062W | 7.384918e-03 |
| 7807 | YOR032C | YPL036W | 7.080500e-03 |
| 2711 | YKL062W | YPL012W | 6.664478e-03 |
| 3512 | YMR280C | YER002W | 6.093500e-03 |
| 6012 | YKL112W | YDR043C | 5.848100e-03 |
| 1807 | YDR216W | YCR010C | 4.388878e-03 |
| 8108 | YKL112W | YBL042C | 4.276927e-03 |
| 1414 | YKL015W | YFL014W | 4.134512e-03 |
| 319 | YDR216W | YMR280C | 3.392673e-03 |
| 7808 | YDR043C | YPL036W | 3.352507e-03 |
| 6413 | YMR280C | YLR276C | 3.311332e-03 |
| 5905 | YKL015W | YNR028W | 2.699416e-03 |

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| 4412 | YKL112W | YKR056W | 2.263679e-03 |
| 7809 | YKL112W | YPL036W | 2.186318e-03 |
| 2613 | YKL062W | YJL172W | 2.031746e-03 |
| 321 | YER040W | YMR280C | 1.715859e-03 |
| 9210 | YKL015W | YLR178C | 1.640806e-03 |
| 2809 | YMR280C | YOR100C | 1.564278e-03 |
| 2114 | YGL254W | YPL061W | 1.349289e-03 |
| 9714 | YKL112W | YKL040C | 1.288645e-03 |
| 5824 | YDR043C | YLL011W | 1.228833e-03 |
| 4105 | YKL112W | YNR064C | 1.155329e-03 |
| 7612 | YKL112W | YAL062W | 1.143604e-03 |
| 7208 | YDR043C | YLL033W | 1.139963e-03 |
| 9924 | YDR216W | YKL062W | 1.136548e-03 |
| 2117 | YER040W | YPL061W | 1.097779e-03 |
| 9110 | YOR032C | YER067W | 9.938753e-04 |
| 5505 | YKL112W | YJR094C | 9.377215e-04 |
| 7615 | YER040W | YAL062W | 8.041847e-04 |
| 1311 | YDR216W | YAL054C | 7.240126e-04 |
| 3107 | YER040W | YJR110W | 7.085352e-04 |
| 1614 | YKL062W | YDL170W | 6.620358e-04 |
| 107 | YKL062W | YKL112W | 6.518338e-04 |
| 5314 | YKL112W | YMR229C | 6.153800e-04 |
| 9403 | YDR043C | YOR032C | 6.021894e-04 |
| 5827 | YKL062W | YLL011W | 5.800563e-04 |
| 1418 | YDL170W | YFL014W | 5.600695e-04 |
| 9823 | YKL015W | YHR087W | 4.882720e-04 |
| 326 | YDL170W | YMR280C | 4.740960e-04 |
| 8210 | YGL254W | YLR130C | 4.548084e-04 |
| 2909 | YKL015W | YMR169C | 4.510282e-04 |
| 2513 | YDL170W | YOR388C | 4.487671e-04 |
| 2719 | YMR280C | YPL012W | 3.749033e-04 |
| 2617 | YER040W | YJL172W | 3.361743e-04 |
| 2811 | YKL062W | YOR100C | 3.233403e-04 |
| 1422 | YDR216W | YFL014W | 3.179950e-04 |
| 8211 | YDR216W | YLR130C | 3.131830e-04 |
| 3916 | YKL015W | YER158C | 3.127803e-04 |
| 3917 | YOR032C | YER158C | 3.047235e-04 |
| 6207 | YBL103C | YKL071W | 2.745549e-04 |
| 7313 | YDL170W | YOR302W | 2.706648e-04 |
| 5509 | YDR043C | YJR094C | 2.677044e-04 |
| 5412 | YDR043C | YOR206W | 2.508847e-04 |
| 1315 | YGL254W | YAL054C | 2.484465e-04 |
| 7116 | YDR043C | YDR361C | 2.474675e-04 |
| 4208 | YDR216W | YGR067C | 2.437015e-04 |
| 8311 | YBL103C | YLR267W | 2.395245e-04 |

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| 2024 | YER040W | YER150W | 2.334549e-04 |
| 3812 | YKL015W | YGR183C | 2.312097e-04 |
| 1022 | YER040W | YCR021C | 2.278207e-04 |
| 331 | YGL254W | YMR280C | 2.205116e-04 |
| 2722 | YOR032C | YPL012W | 2.181173e-04 |
| 4912 | YDR216W | YLR327C | 2.149646e-04 |
| 926 | YBL103C | YDR171W | 2.145629e-04 |
| 8215 | YMR280C | YLR130C | 2.124343e-04 |
| 2315 | YKL062W | YLR009W | 2.033173e-04 |
| 9512 | YOR032C | YHR216W | 2.023385e-04 |
| 3813 | YKL062W | YGR183C | 1.950767e-04 |
| 9933 | YDR043C | YKL062W | 1.860922e-04 |
| 108 | YDR043C | YKL112W | 1.859648e-04 |
| 4913 | YER040W | YLR327C | 1.794421e-04 |
| 9116 | YBL103C | YER067W | 1.754331e-04 |
| 7714 | YKL112W | YDR523C | 1.746721e-04 |
| 6018 | YOR032C | YDR043C | 1.741403e-04 |
| 3114 | YBL103C | YJR110W | 1.700068e-04 |
| 4914 | YKL015W | YLR327C | 1.686509e-04 |
| 5833 | YGL254W | YLL011W | 1.669997e-04 |
| 6809 | YOR032C | YKL015W | 1.653053e-04 |
| 2517 | YKL062W | YOR388C | 1.648864e-04 |
| 6623 | YKL112W | YNL037C | 1.642704e-04 |
| 4010 | YOR032C | YJR148W | 1.637047e-04 |
| 6127 | YER040W | YDR258C | 1.633385e-04 |
| 9214 | YER040W | YLR178C | 1.601746e-04 |
| 2121 | YDL170W | YPL061W | 1.597378e-04 |
| 5514 | YER040W | YJR094C | 1.526310e-04 |
| 9617 | YDR043C | YJL153C | 1.517209e-04 |
| 4711 | YBL103C | YDL160C | 1.405944e-04 |
| 2519 | YMR280C | YOR388C | 1.405749e-04 |
| 6722 | YER040W | YKR009C | 1.376892e-04 |
| 5913 | YER040W | YNR028W | 1.372189e-04 |
| 3720 | YER040W | YIL136W | 1.328123e-04 |
| 9725 | YKL062W | YKL040C | 1.314229e-04 |
| 1435 | YDR043C | YFL014W | 1.260688e-04 |
| 8017 | YKL062W | YOR056C | 1.242641e-04 |
| 8018 | YDR043C | YOR056C | 1.239953e-04 |
| 333 | YKL015W | YMR280C | 1.222893e-04 |
| 9122 | YDR216W | YER067W | 1.168811e-04 |
| 5516 | YDL170W | YJR094C | 1.163116e-04 |
| 1027 | YBL103C | YCR021C | 1.161262e-04 |
| 2520 | YER040W | YOR388C | 1.146756e-04 |
| 1111 | YOR032C | YGR043C | 1.121684e-04 |
| 8619 | YDR043C | YNR053C | 1.118330e-04 |

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| 4918 | YDL170W | YLR327C | 1.106170e-04 |
| 5517 | YOR032C | YJR094C | 1.099354e-04 |
| 3115 | YGL254W | YJR110W | 1.098570e-04 |
| 1926 | YKL112W | YDR384C | 1.079826e-04 |
| 9409 | YKL062W | YOR032C | 1.017373e-04 |
| 335 | YBL103C | YMR280C | 9.858481e-05 |
| 6726 | YDL170W | YKR009C | 9.620874e-05 |
| 9939 | YMR280C | YKL062W | 9.431196e-05 |
| 5614 | YKL015W | YIL155C | 9.354593e-05 |
| 9729 | YOR032C | YKL040C | 9.145716e-05 |
| 1626 | YKL112W | YDL170W | 9.046739e-05 |
| 6906 | YMR280C | YGL009C | 8.908588e-05 |
| 5518 | YBL103C | YJR094C | 8.692344e-05 |
| 7718 | YKL062W | YDR523C | 8.603540e-05 |
| 6810 | YKL062W | YKL015W | 8.567141e-05 |
| 3317 | YKL015W | YGL254W | 8.378584e-05 |
| 9016 | YBL103C | YDL110C | 8.347189e-05 |
| 9831 | YKL062W | YHR087W | 8.229672e-05 |
| 6812 | YKL112W | YKL015W | 7.749511e-05 |
| 9732 | YER040W | YKL040C | 7.613779e-05 |
| 6627 | YMR280C | YNL037C | 7.514219e-05 |
| 2915 | YDL170W | YMR169C | 7.310313e-05 |
| 7820 | YER040W | YPL036W | 7.199133e-05 |
| 9942 | YKL112W | YKL062W | 7.197676e-05 |
| 4623 | YMR280C | YJL063C | 7.114622e-05 |
| 9320 | YDR043C | YGL229C | 7.091607e-05 |
| 3820 | YMR280C | YGR183C | 6.982865e-05 |
| 7908 | YDR043C | YJL217W | 6.963837e-05 |
| 9321 | YMR280C | YGL229C | 6.960399e-05 |
| 1631 | YBL103C | YDL170W | 6.626979e-05 |
| 7410 | YKL015W | YNL270C | 6.502019e-05 |
| 6813 | YMR280C | YKL015W | 6.384302e-05 |
| 7722 | YER040W | YDR523C | 6.149331e-05 |
| 2629 | YDR043C | YJL172W | 6.110538e-05 |
| 1930 | YKL062W | YDR384C | 6.107044e-05 |
| 7411 | YMR280C | YNL270C | 6.048286e-05 |
| 6631 | YDR043C | YNL037C | 5.927016e-05 |
| 8221 | YKL062W | YLR130C | 5.818131e-05 |
| 7911 | YDR216W | YJL217W | 5.803088e-05 |
| 8312 | YDR043C | YLR267W | 5.777822e-05 |
| 6734 | YBL103C | YKR009C | 5.716572e-05 |
| 7316 | YKL112W | YOR302W | 5.685453e-05 |
| 4812 | YKL112W | YIL037C | 5.673267e-05 |
| 5522 | YGL254W | YJR094C | 5.638254e-05 |
| 345 | YKL062W | YMR280C | 5.626418e-05 |

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| 4217 | YKL112W | YGR067C | 5.606436e-05 |
| 3822 | YDR043C | YGR183C | 5.573155e-05 |
| 346 | YOR032C | YMR280C | 5.520617e-05 |
| 2918 | YMR280C | YMR169C | 5.451099e-05 |
| 9126 | YDL170W | YER067W | 5.374859e-05 |
| 415 | YDR043C | YER040W | 5.364057e-05 |
| 1036 | YDL170W | YCR021C | 5.325783e-05 |
| 7317 | YBL103C | YOR302W | 5.302314e-05 |
| 4715 | YER040W | YDL160C | 5.273234e-05 |
| 9514 | YBL103C | YHR216W | 5.246698e-05 |
| 2532 | YBL103C | YOR388C | 5.039521e-05 |
| 217 | YKL015W | YDR216W | 4.954761e-05 |
| 7412 | YKL062W | YNL270C | 4.826213e-05 |
| 1454 | YMR280C | YFL014W | 4.780681e-05 |
| 9417 | YKL015W | YOR032C | 4.762414e-05 |
| 4814 | YKL062W | YIL037C | 4.713642e-05 |
| 1632 | YDR043C | YDL170W | 4.549196e-05 |
| 6639 | YKL015W | YNL037C | 4.409747e-05 |
| 5416 | YMR280C | YOR206W | 4.353974e-05 |
| 7320 | YER040W | YOR302W | 4.310284e-05 |
| 828 | YMR280C | YHR136C | 4.264791e-05 |
| 4117 | YMR280C | YNR064C | 4.233747e-05 |
| 6137 | YDR216W | YDR258C | 4.107077e-05 |
| 1635 | YOR032C | YDL170W | 4.050507e-05 |
| 5716 | YKL062W | YJL088W | 3.835422e-05 |
| 7015 | YKL112W | YPR002W | 3.770909e-05 |
| 1116 | YMR280C | YGR043C | 3.691210e-05 |
| 5719 | YER040W | YJL088W | 3.687478e-05 |
| 5112 | YMR280C | YHR051W | 3.681192e-05 |
| 218 | YDL170W | YDR216W | 3.627576e-05 |
| 9742 | YBL103C | YKL040C | 3.538803e-05 |
| 9131 | YER040W | YER067W | 3.517504e-05 |
| 9743 | YDL170W | YKL040C | 3.497766e-05 |
| 7828 | YDL170W | YPL036W | 3.488702e-05 |
| 8226 | YBL103C | YLR130C | 3.475313e-05 |
| 8432 | YBL103C | YHR029C | 3.468308e-05 |
| 9217 | YDL170W | YLR178C | 3.400787e-05 |
| 8520 | YMR280C | YOL014W | 3.384804e-05 |
| 6431 | YER040W | YLR276C | 3.326874e-05 |
| 7915 | YKL062W | YJL217W | 3.266112e-05 |
| 934 | YDL170W | YDR171W | 3.160488e-05 |
| 729 | YMR280C | YML123C | 3.133920e-05 |
| 5532 | YMR280C | YJR094C | 3.113875e-05 |
| 4118 | YBL103C | YNR064C | 3.087882e-05 |
| 7217 | YDL170W | YLL033W | 3.070819e-05 |

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| 2217 | YDR043C | YKR075C | 3.051942e-05 |
| 8116 | YOR032C | YBL042C | 3.047466e-05 |
| 2218 | YMR280C | YKR075C | 3.011241e-05 |
| 9836 | YDL170W | YHR087W | 2.879614e-05 |
| 1821 | YKL062W | YCR010C | 2.857842e-05 |
| 8228 | YDL170W | YLR130C | 2.846683e-05 |
| 9517 | YKL015W | YHR216W | 2.820889e-05 |
| 126 | YOR032C | YKL112W | 2.805498e-05 |
| 1936 | YER040W | YDR384C | 2.805228e-05 |
| 3729 | YDL170W | YIL136W | 2.799122e-05 |
| 5720 | YKL112W | YJL088W | 2.778042e-05 |
| 6433 | YKL062W | YLR276C | 2.734314e-05 |
| 5851 | YMR280C | YLL011W | 2.686023e-05 |
| 9423 | YMR280C | YOR032C | 2.677814e-05 |
| 7919 | YMR280C | YJL217W | 2.647862e-05 |
| 7513 | YKL112W | YFR022W | 2.604530e-05 |
| 8230 | YKL112W | YLR130C | 2.603658e-05 |
| 7832 | YMR280C | YPL036W | 2.583816e-05 |
| 7129 | YMR280C | YDR361C | 2.548553e-05 |
| 5930 | YBL103C | YNR028W | 2.494533e-05 |
| 2134 | YBL103C | YPL061W | 2.493416e-05 |
| 5931 | YDL170W | YNR028W | 2.485983e-05 |
| 5932 | YKL112W | YNR028W | 2.471808e-05 |
| 5031 | YOR032C | YDL091C | 2.446864e-05 |
| 357 | YDR043C | YMR280C | 2.416850e-05 |
| 1824 | YER040W | YCR010C | 2.402678e-05 |
| 1328 | YDR043C | YAL054C | 2.399200e-05 |
| 128 | YDL170W | YKL112W | 2.377286e-05 |
| 6215 | YER040W | YKL071W | 2.315170e-05 |
| 223 | YER040W | YDR216W | 2.298749e-05 |
| 7922 | YOR032C | YJL217W | 2.297164e-05 |
| 8233 | YER040W | YLR130C | 2.288770e-05 |
| 833 | YGL254W | YHR136C | 2.279321e-05 |
| 9331 | YKL112W | YGL229C | 2.233116e-05 |
| 2928 | YER040W | YMR169C | 2.222405e-05 |
| 9950 | YOR032C | YKL062W | 2.159891e-05 |
| 1826 | YBL103C | YCR010C | 2.153017e-05 |
| 6021 | YKL062W | YDR043C | 2.129365e-05 |
| 5852 | YKL112W | YLL011W | 2.110915e-05 |
| 7735 | YDL170W | YDR523C | 2.080357e-05 |
| 7219 | YKL112W | YLL033W | 2.072730e-05 |
| 2138 | YKL112W | YPL061W | 2.063347e-05 |
| 733 | YKL062W | YML123C | 2.040661e-05 |
| 7736 | YDR043C | YDR523C | 1.995620e-05 |
| 834 | YKL015W | YHR136C | 1.980063e-05 |

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| 9840 | YDR216W | YHR087W | 1.974842e-05 |
| 6523 | YKL112W | YLR438W | 1.946194e-05 |
| 7518 | YOR032C | YFR022W | 1.935727e-05 |
| 9424 | YBL103C | YOR032C | 1.881462e-05 |
| 2932 | YDR216W | YMR169C | 1.861922e-05 |
| 4822 | YDL170W | YIL037C | 1.845615e-05 |
| 7221 | YER040W | YLL033W | 1.842544e-05 |
| 3025 | YBL103C | YNR046W | 1.814905e-05 |
| 2324 | YMR280C | YLR009W | 1.811048e-05 |
| 6440 | YDR043C | YLR276C | 1.784551e-05 |
| 1830 | YGL254W | YCR010C | 1.780305e-05 |
| 1214 | YKL062W | YHR018C | 1.774828e-05 |
| 1339 | YER040W | YAL054C | 1.757101e-05 |
| 522 | YDR043C | YGR142W | 1.699126e-05 |
| 8040 | YKL112W | YOR056C | 1.689480e-05 |
| 2546 | YKL112W | YOR388C | 1.669787e-05 |
| 2325 | YDL170W | YLR009W | 1.659497e-05 |
| 4720 | YDR043C | YDL160C | 1.653961e-05 |
| 2834 | YKL112W | YOR100C | 1.603619e-05 |
| 2547 | YDR216W | YOR388C | 1.600462e-05 |
| 2229 | YKL112W | YKR075C | 1.599917e-05 |
| 7628 | YGL254W | YAL062W | 1.597608e-05 |
| 6745 | YMR280C | YKR009C | 1.585847e-05 |
| 4721 | YDL170W | YDL160C | 1.577741e-05 |
| 5538 | YDR216W | YJR094C | 1.554942e-05 |
| 6145 | YMR280C | YDR258C | 1.544585e-05 |
| 4315 | YBL103C | YPL265W | 1.533936e-05 |
| 9021 | YKL062W | YDL110C | 1.526807e-05 |
| 5858 | YDL170W | YLL011W | 1.507655e-05 |
| 4232 | YKL062W | YGR067C | 1.502316e-05 |
| 7838 | YKL015W | YPL036W | 1.502199e-05 |
| 1832 | YKL112W | YCR010C | 1.459846e-05 |
| 9425 | YKL112W | YOR032C | 1.447197e-05 |
| 7428 | YDR043C | YNL270C | 1.433132e-05 |
| 3130 | YKL112W | YJR110W | 1.402890e-05 |
| 2838 | YER040W | YOR100C | 1.382148e-05 |
| 1467 | YBL103C | YFL014W | 1.368202e-05 |
| 3836 | YKL112W | YGR183C | 1.352707e-05 |
| 4427 | YDR216W | YKR056W | 1.341729e-05 |
| 1124 | YDL170W | YGR043C | 1.301385e-05 |
| 2230 | YER040W | YKR075C | 1.299394e-05 |
| 6932 | YKL062W | YGL009C | 1.289146e-05 |
| 9336 | YDR216W | YGL229C | 1.248088e-05 |
| 7227 | YOR032C | YLL033W | 1.201057e-05 |
| 1343 | YDL170W | YAL054C | 1.196407e-05 |

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| 4936 | YGL254W | YLR327C | 1.194683e-05 |
| 6444 | YDL170W | YLR276C | 1.164164e-05 |
| 2333 | YBL103C | YLR009W | 1.159344e-05 |
| 7927 | YDL170W | YJL217W | 1.140154e-05 |
| 6747 | YKL112W | YKR009C | 1.134916e-05 |
| 1471 | YKL112W | YFL014W | 1.127983e-05 |
| 2941 | YBL103C | YMR169C | 1.098467e-05 |
| 9144 | YKL062W | YER067W | 1.097955e-05 |
| 1215 | YER040W | YHR018C | 1.083133e-05 |
| 9338 | YBL103C | YGL229C | 1.082496e-05 |
| 7231 | YBL103C | YLL033W | 1.076115e-05 |
| 4130 | YDL170W | YNR064C | 1.073972e-05 |
| 9524 | YDR043C | YHR216W | 1.045144e-05 |
| 7929 | YER040W | YJL217W | 1.039800e-05 |
| 2231 | YKL062W | YKR075C | 1.039026e-05 |
| 525 | YER040W | YGR142W | 1.037287e-05 |
| 228 | YBL103C | YDR216W | 1.024234e-05 |
| 6224 | YOR032C | YKL071W | 1.019095e-05 |
| 4017 | YKL112W | YJR148W | 1.003964e-05 |
| 2750 | YBL103C | YPL012W | 9.716072e-06 |
| 3735 | YKL112W | YIL136W | 9.671371e-06 |
| 1841 | YKL015W | YCR010C | 9.255886e-06 |
| 9339 | YKL062W | YGL229C | 9.223619e-06 |
| 939 | YKL015W | YDR171W | 9.164611e-06 |
| 3220 | YDR043C | YMR193W | 8.846968e-06 |
| 2650 | YDL170W | YJL172W | 8.765911e-06 |
| 8050 | YMR280C | YOR056C | 8.730850e-06 |
| 4942 | YKL112W | YLR327C | 8.719970e-06 |
| 4133 | YKL015W | YNR064C | 8.676632e-06 |
| 2944 | YDR043C | YMR169C | 8.666203e-06 |
| 6227 | YDL170W | YKL071W | 8.418289e-06 |
| 2652 | YKL112W | YJL172W | 8.344594e-06 |
| 6530 | YKL062W | YLR438W | 8.248821e-06 |
| 9631 | YMR280C | YJL153C | 8.221192e-06 |
| 6321 | YKL015W | YNL194C | 8.092109e-06 |
| 1127 | YBL103C | YGR043C | 7.981064e-06 |
| 6830 | YDR043C | YKL015W | 7.920131e-06 |
| 2842 | YOR032C | YOR100C | 7.858714e-06 |
| 2560 | YOR032C | YOR388C | 7.775450e-06 |
| 5039 | YMR280C | YDL091C | 7.742857e-06 |
| 2563 | YGL254W | YOR388C | 7.673306e-06 |
| 3737 | YKL015W | YIL136W | 7.634000e-06 |
| 141 | YER040W | YKL112W | 7.585626e-06 |
| 4321 | YMR280C | YPL265W | 7.562203e-06 |
| 6449 | YDR216W | YLR276C | 7.544046e-06 |

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| 4826 | YDR043C | YIL037C | 7.505486e-06 |
| 7932 | YGL254W | YJL217W | 7.493570e-06 |
| 3738 | YOR032C | YIL136W | 7.300849e-06 |
| 9632 | YER040W | YJL153C | 7.289606e-06 |
| 9760 | YDR216W | YKL040C | 7.271380e-06 |
| 2947 | YOR032C | YMR169C | 7.011217e-06 |
| 9633 | YKL062W | YJL153C | 6.932814e-06 |
| 2654 | YMR280C | YJL172W | 6.897514e-06 |
| 5040 | YKL112W | YDL091C | 6.815323e-06 |
| 7530 | YMR280C | YFR022W | 6.623200e-06 |
| 4637 | YKL062W | YJL063C | 6.380821e-06 |
| 7441 | YDL170W | YNL270C | 6.323033e-06 |
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| 8824 | YDR043C | YDR380W | 4.581335e-06 |
| 2426 | YDR043C | YPL111W | 4.570775e-06 |
| 5729 | YDR216W | YJL088W | 4.563106e-06 |
| 4249 | YER040W | YGR067C | 4.538197e-06 |
| 6454 | YKL112W | YLR276C | 4.525177e-06 |
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| 3225 | YGL254W | YMR193W | 4.210543e-06 |
| 7942 | YKL015W | YJL217W | 4.155309e-06 |
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| 9158 | YKL112W | YER067W | 4.089677e-06 |

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| 3421 | YDR216W | YLR174W | 3.687687e-06 |
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| 4965 | YKL062W | YLR327C | 3.208970e-06 |
| 6665 | YDL170W | YNL037C | 3.141530e-06 |
| 3041 | YDL170W | YNR046W | 3.120892e-06 |
| 9444 | YER040W | YOR032C | 3.065905e-06 |
| 5124 | YKL062W | YHR051W | 3.065417e-06 |
| 4742 | YKL112W | YDL160C | 3.042818e-06 |
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| 4654 | YBL103C | YJL063C | 2.977507e-06 |
| 9535 | YDR216W | YHR216W | 2.959753e-06 |
| 9026 | YDR043C | YDL110C | 2.928778e-06 |
| 1534 | YBL103C | YOR348C | 2.927453e-06 |
| 4655 | YGL254W | YJL063C | 2.856963e-06 |
| 8122 | YDR043C | YBL042C | 2.835073e-06 |

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| 6947 | YKL112W | YGL009C | 2.743455e-06 |
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| 6458 | YGL254W | YLR276C | 2.624911e-06 |
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| 2861 | YDR043C | YOR100C | 2.457407e-06 |
| 1072 | YGL254W | YCR021C | 2.415506e-06 |
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| 1536 | YMR280C | YOR348C | 2.397289e-06 |
| 621 | YDR216W | YNL036W | 2.387436e-06 |
| 1482 | YER040W | YFL014W | 2.376735e-06 |
| 4261 | YOR032C | YGR067C | 2.365293e-06 |
| 7453 | YOR032C | YNL270C | 2.355988e-06 |
| 8329 | YDL170W | YLR267W | 2.345593e-06 |
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| 8737 | YDR216W | YLR258W | 2.235055e-06 |
| 948 | YDR043C | YDR171W | 2.206772e-06 |
| 9451 | YGL254W | YOR032C | 2.190747e-06 |
| 1483 | YGL254W | YFL014W | 2.188471e-06 |
| 7772 | YBL103C | YDR523C | 2.181965e-06 |
| 4341 | YGL254W | YPL265W | 2.180645e-06 |
| 4036 | YMR280C | YJR148W | 2.170412e-06 |
| 7157 | YBL103C | YDR361C | 2.162694e-06 |
| 2163 | YKL015W | YPL061W | 2.158359e-06 |
| 150 | YBL103C | YKL112W | 2.157105e-06 |
| 3045 | YMR280C | YNR046W | 2.157020e-06 |
| 4972 | YMR280C | YLR327C | 2.125996e-06 |
| 4660 | YDR043C | YJL063C | 2.122301e-06 |
| 6538 | YBL103C | YLR438W | 2.069954e-06 |
| 5958 | YDR216W | YNR028W | 2.053595e-06 |

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| 1138 | YDR043C | YGR043C | 2.052446e-06 |
| 3425 | YDL170W | YLR174W | 2.008937e-06 |
| 7862 | YGL254W | YPL036W | 1.993109e-06 |
| 9646 | YDL170W | YJL153C | 1.977620e-06 |
| 1966 | YDL170W | YDR384C | 1.969089e-06 |
| 544 | YDL170W | YGR142W | 1.894895e-06 |
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| 243 | YKL112W | YDR216W | 1.849844e-06 |
| 9648 | YGL254W | YJL153C | 1.810807e-06 |
| 4444 | YDR043C | YKR056W | 1.807817e-06 |
| 1967 | YMR280C | YDR384C | 1.790257e-06 |
| 7253 | YMR280C | YLL033W | 1.787734e-06 |
| 3936 | YBL103C | YER158C | 1.778938e-06 |
| 755 | YGL254W | YML123C | 1.770274e-06 |
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| 6244 | YDR216W | YKL071W | 1.753050e-06 |
| 2775 | YKL015W | YPL012W | 1.751222e-06 |
| 3937 | YKL112W | YER158C | 1.749050e-06 |
| 624 | YKL062W | YNL036W | 1.710514e-06 |
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| 7551 | YDR043C | YFR022W | 1.615094e-06 |
| 8557 | YKL112W | YOL014W | 1.610283e-06 |
| 8464 | YGL254W | YHR029C | 1.604953e-06 |
| 9362 | YOR032C | YGL229C | 1.603476e-06 |
| 1362 | YKL062W | YAL054C | 1.593880e-06 |
| 6171 | YKL112W | YDR258C | 1.585309e-06 |
| 9035 | YDR216W | YDL110C | 1.579954e-06 |
| 2170 | YDR043C | YPL061W | 1.563278e-06 |
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| 9175 | YMR280C | YER067W | 1.477988e-06 |
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| 3875 | YER040W | YGR183C | 1.442289e-06 |
| 5059 | YKL015W | YDL091C | 1.437434e-06 |
| 2970 | YKL112W | YMR169C | 1.428194e-06 |
| 7463 | YGL254W | YNL270C | 1.426510e-06 |
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| 5060 | YDL170W | YDL091C | 1.406422e-06 |
| 4667 | YER040W | YJL063C | 1.389297e-06 |
| 7554 | YDL170W | YFR022W | 1.388916e-06 |
| 7776 | YKL015W | YDR523C | 1.370463e-06 |
| 1364 | YBL103C | YAL054C | 1.346004e-06 |
| 8072 | YER040W | YOR056C | 1.344296e-06 |

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| 2362 | YKL112W | YLR009W | 1.291328e-06 |
| 4346 | YDR216W | YPL265W | 1.287961e-06 |
| 548 | YKL062W | YGR142W | 1.281227e-06 |
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| 9546 | YER040W | YHR216W | 1.264038e-06 |
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| 2363 | YER040W | YLR009W | 1.229627e-06 |
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| 6680 | YKL062W | YNL037C | 1.199350e-06 |
| 2676 | YOR032C | YJL172W | 1.164790e-06 |
| 1972 | YDR043C | YDR384C | 1.148392e-06 |
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| 9863 | YMR280C | YHR087W | 1.116292e-06 |
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| 4348 | YDL170W | YPL265W | 1.094165e-06 |
| 4984 | YOR032C | YLR327C | 1.069947e-06 |
| 3364 | YOR032C | YGL254W | 1.048031e-06 |
| 1672 | YMR280C | YDL170W | 1.041926e-06 |
| 9039 | YMR280C | YDL110C | 1.041197e-06 |
| 6542 | YER040W | YLR438W | 1.040094e-06 |
| 9982 | YER040W | YKL062W | 1.034413e-06 |
| 9983 | YDL170W | YKL062W | 1.032724e-06 |
| 2878 | YKL015W | YOR100C | 1.031000e-06 |
| 956 | YMR280C | YDR171W | 1.029089e-06 |
| 1550 | YGL254W | YOR348C | 1.027904e-06 |
| 9783 | YMR280C | YKL040C | 1.015636e-06 |
| 2684 | YGL254W | YJL172W | 1.008334e-06 |
| 5134 | YDR043C | YHR051W | 9.971306e-07 |
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| 3753 | YDR216W | YIL136W | 9.857975e-07 |
| 7650 | YMR280C | YAL062W | 9.848851e-07 |

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| 1145 | YDR216W | YGR043C | 9.804780e-07 |
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| 5880 | YBL103C | YLL011W | 9.559111e-07 |
| 7165 | YGL254W | YDR361C | 9.317072e-07 |
| 3754 | YMR280C | YIL136W | 9.135168e-07 |
| 2177 | YMR280C | YPL061W | 8.869984e-07 |
| 630 | YKL112W | YNL036W | 8.823280e-07 |
| 3241 | YKL112W | YMR193W | 8.810514e-07 |
| 5639 | YKL112W | YIL155C | 8.776311e-07 |
| 7166 | YDL170W | YDR361C | 8.761235e-07 |
| 8472 | YMR280C | YHR029C | 8.759649e-07 |
| 7167 | YKL015W | YDR361C | 8.682706e-07 |
| 7365 | YDR043C | YOR302W | 8.664523e-07 |
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| 2431 | YBL103C | YPL111W | 8.596605e-07 |
| 8268 | YKL015W | YLR130C | 8.561111e-07 |
| 6255 | YKL112W | YKL071W | 8.486958e-07 |
| 4856 | YKL015W | YIL037C | 8.468379e-07 |
| 7561 | YKL062W | YFR022W | 8.416769e-07 |
| 9985 | YGL254W | YKL062W | 8.364092e-07 |
| 6256 | YGL254W | YKL071W | 8.352567e-07 |
| 4045 | YER040W | YJR148W | 8.338371e-07 |
| 6961 | YER040W | YGL009C | 8.316683e-07 |
| 7260 | YGL254W | YLL033W | 8.290746e-07 |
| 9661 | YBL103C | YJL153C | 8.286573e-07 |
| 4352 | YDR043C | YPL265W | 8.229360e-07 |
| 6031 | YBL103C | YDR043C | 8.191253e-07 |
| 9043 | YGL254W | YDL110C | 8.165860e-07 |
| 7654 | YDL170W | YAL062W | 8.165204e-07 |
| 8270 | YDR043C | YLR130C | 8.090509e-07 |
| 6032 | YER040W | YDR043C | 8.042436e-07 |
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| 2786 | YDL170W | YPL012W | 7.880993e-07 |
| 5348 | YKL015W | YMR229C | 7.879052e-07 |
| 3947 | YMR280C | YER158C | 7.858503e-07 |
| 4857 | YER040W | YIL037C | 7.781892e-07 |
| 1149 | YER040W | YGR043C | 7.764863e-07 |
| 2787 | YDR216W | YPL012W | 7.691461e-07 |
| 9477 | YDR216W | YOR032C | 7.679790e-07 |
| 2788 | YER040W | YPL012W | 7.669801e-07 |
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| 3884 | YDL170W | YGR183C | 7.305360e-07 |
| 1151 | YGL254W | YGR043C | 7.266207e-07 |
| 4456 | YGL254W | YKR056W | 7.195516e-07 |
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| 6871 | YBL103C | YKL015W | 7.002450e-07 |
| 6264 | YMR280C | YKL071W | 6.904484e-07 |
| 3376 | YKL112W | YGL254W | 6.767052e-07 |
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| 632 | YDR043C | YNL036W | 6.706271e-07 |
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| 7373 | YKL062W | YOR302W | 6.677960e-07 |
| 8077 | YDL170W | YOR056C | 6.658879e-07 |
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| 2186 | YOR032C | YPL061W | 6.625361e-07 |
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| 772 | YER040W | YML123C | 6.541292e-07 |
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| 8141 | YDR216W | YBL042C | 5.714690e-07 |
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| 7383 | YDR216W | YOR302W | 5.237570e-07 |
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| 6980 | YDR216W | YGL009C | 5.106374e-07 |
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| 3180 | YOR032C | YJR110W | 5.080778e-07 |
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| 431 | YKL062W | YER040W | 4.895102e-07 |
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| 8751 | YKL112W | YLR258W | 4.740989e-07 |
| 5882 | YOR032C | YLL011W | 4.713644e-07 |
| 2260 | YBL103C | YKR075C | 4.684034e-07 |
| 6788 | YKL015W | YKR009C | 4.643860e-07 |
| 780 | YKL112W | YML123C | 4.601309e-07 |
| 6882 | YGL254W | YKL015W | 4.552744e-07 |
| 1236 | YBL103C | YHR018C | 4.530883e-07 |
| 8841 | YMR280C | YDR380W | 4.485931e-07 |
| 781 | YOR032C | YML123C | 4.472986e-07 |
| 2261 | YOR032C | YKR075C | 4.466655e-07 |
| 3761 | YDR043C | YIL136W | 4.448584e-07 |
| 5883 | YDR216W | YLL011W | 4.434138e-07 |
| 7793 | YGL254W | YDR523C | 4.390647e-07 |
| 432 | YOR032C | YER040W | 4.352617e-07 |
| 6792 | YOR032C | YKR009C | 4.344212e-07 |
| 7579 | YGL254W | YFR022W | 4.316667e-07 |
| 4172 | YKL062W | YNR064C | 4.288806e-07 |

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| 8931 | YMR280C | YLL034C | 4.248749e-07 |
| 9671 | YOR032C | YJL153C | 4.238481e-07 |
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| 9374 | YGL254W | YGL229C | 4.149649e-07 |
| 4289 | YKL015W | YGR067C | 4.148525e-07 |
| 2888 | YGL254W | YOR100C | 4.081420e-07 |
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| 6795 | YGL254W | YKR009C | 4.005733e-07 |
| 7282 | YKL015W | YLL033W | 3.980712e-07 |
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| 7045 | YMR280C | YPR002W | 3.823072e-07 |
| 6887 | YDR216W | YKL015W | 3.821312e-07 |
| 889 | YBL103C | YHR136C | 3.793572e-07 |
| 9875 | YOR032C | YHR087W | 3.790158e-07 |
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| 6337 | YDL170W | YNL194C | 3.729228e-07 |
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| 2058 | YDR216W | YER150W | 3.672922e-07 |
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| 1987 | YOR032C | YDR384C | 3.586172e-07 |
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| 6696 | YGL254W | YNL037C | 3.369853e-07 |
| 5648 | YDR043C | YIL155C | 3.354674e-07 |
| 4058 | YBL103C | YJR148W | 3.334640e-07 |
| 3444 | YKL062W | YLR174W | 3.327381e-07 |
| 4591 | YOR032C | YCL064C | 3.298702e-07 |
| 4592 | YDR216W | YCL064C | 3.292035e-07 |
| 7392 | YKL015W | YOR302W | 3.283913e-07 |
| 3894 | YGL254W | YGR183C | 3.276725e-07 |
| 3952 | YDL170W | YER158C | 3.269552e-07 |
| 4777 | YKL062W | YDL160C | 3.264302e-07 |
| 4680 | YKL015W | YJL063C | 3.219492e-07 |
| 7587 | YDR216W | YFR022W | 3.217649e-07 |
| 2061 | YMR280C | YER150W | 3.207887e-07 |
| 7588 | YKL015W | YFR022W | 3.179528e-07 |
| 8492 | YOR032C | YHR029C | 3.127845e-07 |
| 6191 | YDL170W | YDR258C | 3.109435e-07 |
| 5355 | YDL170W | YMR229C | 3.104245e-07 |
| 8583 | YDL170W | YOL014W | 3.100253e-07 |
| 9248 | YBL103C | YLR178C | 3.097832e-07 |
| 5756 | YBL103C | YJL088W | 3.096002e-07 |

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| 5995 | YOR032C | YNR028W | 3.036747e-07 |
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| 565 | YGL254W | YGR142W | 3.020875e-07 |
| 4190 | YGL254W | YNR064C | 3.013679e-07 |
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| 4779 | YGL254W | YDL160C | 2.961868e-07 |
| 4370 | YOR032C | YPL265W | 2.961623e-07 |
| 2996 | YGL254W | YMR169C | 2.958872e-07 |
| 1991 | YKL015W | YDR384C | 2.958298e-07 |
| 6555 | YDL170W | YLR438W | 2.924751e-07 |
| 7394 | YOR032C | YOR302W | 2.898420e-07 |
| 3070 | YDR216W | YNR046W | 2.884668e-07 |
| 9379 | YDL170W | YGL229C | 2.876939e-07 |
| 1992 | YGL254W | YDR384C | 2.825300e-07 |
| 1889 | YOR032C | YCR010C | 2.804243e-07 |
| 7190 | YDR216W | YDR361C | 2.792746e-07 |
| 5760 | YDR043C | YJL088W | 2.790037e-07 |
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| 4061 | YDR043C | YJR148W | 2.724680e-07 |
| 6698 | YOR032C | YNL037C | 2.669472e-07 |
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| 5650 | YBL103C | YIL155C | 2.560221e-07 |
| 4780 | YOR032C | YDL160C | 2.526065e-07 |
| 6196 | YGL254W | YDR258C | 2.519042e-07 |
| 5457 | YDR216W | YOR206W | 2.515054e-07 |
| 3449 | YBL103C | YLR174W | 2.514381e-07 |
| 2696 | YDR216W | YJL172W | 2.492930e-07 |
| 6558 | YDR043C | YLR438W | 2.492428e-07 |
| 8773 | YDR043C | YLR258W | 2.486179e-07 |
| 2384 | YDR216W | YLR009W | 2.461493e-07 |
| 8349 | YER040W | YLR267W | 2.413679e-07 |
| 3197 | YKL015W | YJR110W | 2.393831e-07 |
| 5242 | YDR216W | YHL028W | 2.355627e-07 |
| 5458 | YOR032C | YOR206W | 2.355047e-07 |
| 3074 | YOR032C | YNR046W | 2.338360e-07 |
| 6197 | YOR032C | YDR258C | 2.335031e-07 |
| 3252 | YDR216W | YMR193W | 2.304392e-07 |

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| 573 | YMR280C | YGR142W | 2.302145e-07 |
| 8350 | YMR280C | YLR267W | 2.280940e-07 |
| 9682 | YKL015W | YJL153C | 2.231007e-07 |
| 1751 | YKL015W | YBR054W | 2.224510e-07 |
| 792 | YDL170W | YML123C | 2.193569e-07 |
| 793 | YBL103C | YML123C | 2.191418e-07 |
| 5360 | YKL062W | YMR229C | 2.178292e-07 |
| 5361 | YMR280C | YMR229C | 2.171349e-07 |
| 7671 | YBL103C | YAL062W | 2.164409e-07 |
| 2389 | YKL015W | YLR009W | 2.139381e-07 |
| 6342 | YER040W | YNL194C | 2.137419e-07 |
| 9879 | YDR043C | YHR087W | 2.093988e-07 |
| 2391 | YOR032C | YLR009W | 2.083739e-07 |
| 5080 | YBL103C | YDL091C | 2.060509e-07 |
| 5243 | YER040W | YHL028W | 2.059984e-07 |
| 9880 | YER040W | YHR087W | 2.000043e-07 |
| 6492 | YOR032C | YLR276C | 1.947101e-07 |
| 4196 | YDR216W | YNR064C | 1.920942e-07 |
| 7194 | YOR032C | YDR361C | 1.849657e-07 |
| 5362 | YOR032C | YMR229C | 1.833765e-07 |
| 6047 | YDL170W | YDR043C | 1.816037e-07 |
| 4470 | YDL170W | YKR056W | 1.795745e-07 |
| 8596 | YOR032C | YOL014W | 1.795322e-07 |
| 8094 | YOR032C | YOR056C | 1.788916e-07 |
| 8856 | YKL112W | YDR380W | 1.766264e-07 |
| 2442 | YDL170W | YPL111W | 1.739175e-07 |
| 1997 | YDR216W | YDR384C | 1.728369e-07 |
| 438 | YKL112W | YER040W | 1.726597e-07 |
| 8632 | YKL062W | YNR053C | 1.726104e-07 |
| 8096 | YGL254W | YOR056C | 1.716742e-07 |
| 3076 | YGL254W | YNR046W | 1.705496e-07 |
| 978 | YGL254W | YDR171W | 1.668875e-07 |
| 2066 | YGL254W | YER150W | 1.667044e-07 |
| 1572 | YKL112W | YOR348C | 1.609744e-07 |
| 8353 | YGL254W | YLR267W | 1.587609e-07 |
| 4072 | YKL062W | YJR148W | 1.583843e-07 |
| 2274 | YDR216W | YKR075C | 1.583642e-07 |
| 5467 | YBL103C | YOR206W | 1.540753e-07 |
| 1245 | YKL112W | YHR018C | 1.535501e-07 |
| 6344 | YMR280C | YNL194C | 1.528917e-07 |
| 3960 | YER040W | YER158C | 1.519059e-07 |
| 9883 | YBL103C | YHR087W | 1.455193e-07 |
| 274 | YOR032C | YDR216W | 1.452130e-07 |
| 4792 | YKL015W | YDL160C | 1.438340e-07 |
| 2277 | YGL254W | YKR075C | 1.437970e-07 |

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| 1246 | YDL170W | YHR018C | 1.433464e-07 |
| 1247 | YOR032C | YHR018C | 1.420782e-07 |
| 5770 | YOR032C | YJL088W | 1.357260e-07 |
| 2397 | YGL254W | YLR009W | 1.356856e-07 |
| 8159 | YKL015W | YBL042C | 1.335370e-07 |
| 6345 | YOR032C | YNL194C | 1.322515e-07 |
| 7053 | YDR216W | YPR002W | 1.279618e-07 |
| 9389 | YKL015W | YGL229C | 1.251679e-07 |
| 8860 | YER040W | YDR380W | 1.235397e-07 |
| 3256 | YMR280C | YMR193W | 1.226089e-07 |
| 587 | YDR216W | YGR142W | 1.222716e-07 |
| 6346 | YDR216W | YNL194C | 1.216007e-07 |
| 278 | YDR043C | YDR216W | 1.180717e-07 |
| 5473 | YKL112W | YOR206W | 1.178267e-07 |
| 5150 | YOR032C | YHR051W | 1.134171e-07 |
| 8636 | YKL112W | YNR053C | 1.105646e-07 |
| 5249 | YBL103C | YHL028W | 1.093626e-07 |
| 4082 | YKL015W | YJR148W | 1.055341e-07 |
| 1181 | YKL015W | YGR043C | 1.046240e-07 |
| 9578 | YDL170W | YHR216W | 1.034528e-07 |
| 8867 | YDL170W | YDR380W | 1.024931e-07 |
| 655 | YOR032C | YNL036W | 1.008842e-07 |
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| 7058 | YKL015W | YPR002W | 9.284758e-08 |
| 8791 | YOR032C | YLR258W | 9.224313e-08 |
| 594 | YKL015W | YGR142W | 9.173766e-08 |
| 4478 | YBL103C | YKR056W | 8.809370e-08 |
| 657 | YBL103C | YNL036W | 8.660454e-08 |
| 3461 | YER040W | YLR174W | 8.590534e-08 |
| 4088 | YGL254W | YJR148W | 8.359196e-08 |
| 3261 | YER040W | YMR193W | 8.144738e-08 |
| 8870 | YBL103C | YDR380W | 7.782381e-08 |
| 7687 | YKL015W | YAL062W | 7.654164e-08 |
| 7688 | YOR032C | YAL062W | 7.389701e-08 |
| 9266 | YDR043C | YLR178C | 7.364270e-08 |
| 4481 | YOR032C | YKR056W | 7.055061e-08 |
| 4482 | YKL015W | YKR056W | 7.016066e-08 |
| 3098 | YKL015W | YNR046W | 6.992371e-08 |
| 5481 | YDL170W | YOR206W | 6.966028e-08 |
| 3464 | YOR032C | YLR174W | 6.930614e-08 |
| 5482 | YER040W | YOR206W | 6.868510e-08 |
| 3465 | YGL254W | YLR174W | 6.782377e-08 |
| 8874 | YOR032C | YDR380W | 6.652638e-08 |
| 5666 | YDL170W | YIL155C | 6.637913e-08 |

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| 9269 | YKL112W | YLR178C | 6.612156e-08 |
| 3645 | YDR043C | YDL018C | 6.604682e-08 |
| 5374 | YBL103C | YMR229C | 6.362157e-08 |
| 9890 | YKL112W | YHR087W | 6.215972e-08 |
| 2072 | YDR043C | YER150W | 6.178454e-08 |
| 5091 | YDR216W | YDL091C | 6.084416e-08 |
| 658 | YDL170W | YNL036W | 5.918942e-08 |
| 659 | YER040W | YNL036W | 5.891908e-08 |
| 1258 | YDR043C | YHR018C | 5.670279e-08 |
| 3469 | YKL015W | YLR174W | 5.463119e-08 |
| 5092 | YGL254W | YDL091C | 5.443634e-08 |
| 3470 | YKL112W | YLR174W | 5.378642e-08 |
| 2076 | YOR032C | YER150W | 4.948199e-08 |
| 8796 | YER040W | YLR258W | 4.891328e-08 |
| 1769 | YKL062W | YBR054W | 4.859406e-08 |
| 8649 | YMR280C | YNR053C | 4.490586e-08 |
| 4095 | YDR216W | YJR148W | 4.453732e-08 |
| 7068 | YDR043C | YPR002W | 4.398260e-08 |
| 2291 | YKL015W | YKR075C | 4.288657e-08 |
| 3784 | YGL254W | YIL136W | 4.173601e-08 |
| 7695 | YDR216W | YAL062W | 3.975500e-08 |
| 5792 | YKL015W | YJL088W | 3.912847e-08 |
| 5257 | YKL112W | YHL028W | 3.819907e-08 |
| 5679 | YER040W | YIL155C | 3.699628e-08 |
| 8171 | YKL062W | YBL042C | 3.641969e-08 |
| 1262 | YMR280C | YHR018C | 3.501455e-08 |
| 5165 | YER040W | YHR051W | 3.475488e-08 |
| 5493 | YKL015W | YOR206W | 3.316992e-08 |
| 5167 | YDL170W | YHR051W | 3.160903e-08 |
| 5258 | YDL170W | YHL028W | 3.132570e-08 |
| 3274 | YDL170W | YMR193W | 3.127197e-08 |
| 5495 | YGL254W | YOR206W | 2.933707e-08 |
| 3275 | YBL103C | YMR193W | 2.901609e-08 |
| 3276 | YOR032C | YMR193W | 2.894428e-08 |
| 3983 | YGL254W | YER158C | 2.875559e-08 |
| 8177 | YDL170W | YBL042C | 2.751032e-08 |
| 8798 | YBL103C | YLR258W | 2.741625e-08 |
| 8178 | YBL103C | YBL042C | 2.737797e-08 |
| 5266 | YGL254W | YHL028W | 2.470341e-08 |
| 8181 | YGL254W | YBL042C | 2.465432e-08 |
| 6062 | YGL254W | YDR043C | 2.352904e-08 |
| 7081 | YKL062W | YPR002W | 2.265495e-08 |
| 1268 | YKL015W | YHR018C | 2.214708e-08 |
| 9087 | YKL112W | YDL110C | 2.177746e-08 |
| 8893 | YKL015W | YDR380W | 2.176031e-08 |

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| 5392 | YGL254W | YMR229C | 2.065439e-08 |
| 5176 | YKL015W | YHR051W | 1.951626e-08 |
| 5177 | YDR216W | YHR051W | 1.936570e-08 |
| 9286 | YDR216W | YLR178C | 1.933329e-08 |
| 3988 | YDR216W | YER158C | 1.929950e-08 |
| 5179 | YBL103C | YHR051W | 1.898659e-08 |
| 1776 | YKL112W | YBR054W | 1.877532e-08 |
| 6366 | YKL112W | YNL194C | 1.860593e-08 |
| 9289 | YOR032C | YLR178C | 1.681573e-08 |
| 7085 | YOR032C | YPR002W | 1.638367e-08 |
| 998 | YOR032C | YDR171W | 1.567563e-08 |
| 1780 | YDR043C | YBR054W | 1.552947e-08 |
| 1276 | YDR216W | YHR018C | 1.531931e-08 |
| 3563 | YER040W | YER002W | 1.429458e-08 |
| 8895 | YGL254W | YDR380W | 1.421348e-08 |
| 8376 | YDR216W | YLR267W | 1.419710e-08 |
| 8966 | YKL112W | YLL034C | 1.384586e-08 |
| 6074 | YMR280C | YDR043C | 1.375462e-08 |
| 8896 | YDR216W | YDR380W | 1.361437e-08 |
| 5398 | YDR216W | YMR229C | 1.334220e-08 |
| 3662 | YKL112W | YDL018C | 1.307774e-08 |
| 8377 | YOR032C | YLR267W | 1.286995e-08 |
| 8967 | YOR032C | YLL034C | 1.281572e-08 |
| 8192 | YER040W | YBL042C | 1.246717e-08 |
| 3564 | YKL112W | YER002W | 1.233222e-08 |
| 5187 | YGL254W | YHR051W | 1.223427e-08 |
| 3663 | YER040W | YDL018C | 1.209428e-08 |
| 6585 | YKL015W | YLR438W | 1.195342e-08 |
| 475 | YDR216W | YER040W | 1.195278e-08 |
| 8662 | YOR032C | YNR053C | 1.144617e-08 |
| 3665 | YBL103C | YDL018C | 1.132389e-08 |
| 9291 | YGL254W | YLR178C | 1.124196e-08 |
| 6586 | YDR216W | YLR438W | 1.123959e-08 |
| 3567 | YOR032C | YER002W | 1.115111e-08 |
| 2092 | YKL112W | YER150W | 1.104225e-08 |
| 7092 | YGL254W | YPR002W | 1.094152e-08 |
| 8663 | YDL170W | YNR053C | 1.090977e-08 |
| 3667 | YKL062W | YDL018C | 1.083190e-08 |
| 8970 | YBL103C | YLL034C | 1.058461e-08 |
| 3570 | YKL015W | YER002W | 9.790809e-09 |
| 5693 | YGL254W | YIL155C | 9.617025e-09 |
| 6588 | YGL254W | YLR438W | 9.403447e-09 |
| 3670 | YMR280C | YDL018C | 9.335947e-09 |
| 8387 | YKL015W | YLR267W | 8.984958e-09 |
| 6591 | YOR032C | YLR438W | 8.605294e-09 |

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| 692 | YKL015W | YNL036W | 8.431043e-09 |
| 2472 | YMR280C | YPL111W | 7.946891e-09 |
| 1791 | YOR032C | YBR054W | 7.832869e-09 |
| 480 | YGL254W | YER040W | 7.808352e-09 |
| 693 | YGL254W | YNL036W | 7.627300e-09 |
| 8668 | YER040W | YNR053C | 7.309328e-09 |
| 3289 | YKL015W | YMR193W | 7.229978e-09 |
| 8391 | YKL062W | YLR267W | 7.151841e-09 |
| 489 | YKL015W | YER040W | 6.583925e-09 |
| 2477 | YGL254W | YPL111W | 6.048505e-09 |
| 6380 | YBL103C | YNL194C | 5.999192e-09 |
| 6381 | YDR043C | YNL194C | 5.560139e-09 |
| 8978 | YKL015W | YLL034C | 5.409282e-09 |
| 3676 | YDL170W | YDL018C | 5.135293e-09 |
| 8672 | YGL254W | YNR053C | 4.714647e-09 |
| 1294 | YGL254W | YHR018C | 4.640672e-09 |
| 2484 | YDR216W | YPL111W | 4.509132e-09 |
| 8983 | YER040W | YLL034C | 4.129122e-09 |
| 3683 | YKL015W | YDL018C | 4.087688e-09 |
| 8986 | YDL170W | YLL034C | 3.750259e-09 |
| 3580 | YDL170W | YER002W | 3.519412e-09 |
| 2489 | YKL015W | YPL111W | 3.388154e-09 |
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| 8681 | YBL103C | YNR053C | 2.937690e-09 |
| 2490 | YOR032C | YPL111W | 2.889436e-09 |
| 3691 | YOR032C | YDL018C | 2.502677e-09 |
| 3692 | YDR216W | YDL018C | 2.498999e-09 |
| 6091 | YDR216W | YDR043C | 2.445018e-09 |
| 3589 | YDR216W | YER002W | 2.032706e-09 |
| 8690 | YKL015W | YNR053C | 1.967438e-09 |
| 3696 | YGL254W | YDL018C | 1.820362e-09 |
| 8993 | YDR216W | YLL034C | 1.675807e-09 |
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 [891] 1.587609e-07 1.583843e-07 1.583642e-07 1.540753e-07 1.535501e-07
 [896] 1.528917e-07 1.519059e-07 1.455193e-07 1.452130e-07 1.438340e-07
 [901] 1.437970e-07 1.433464e-07 1.420782e-07 1.357260e-07 1.356856e-07
 [906] 1.335370e-07 1.322515e-07 1.279618e-07 1.251679e-07 1.235397e-07
 [911] 1.226089e-07 1.222716e-07 1.216007e-07 1.180717e-07 1.178267e-07
 [916] 1.134171e-07 1.105646e-07 1.093626e-07 1.055341e-07 1.046240e-07
 [921] 1.034528e-07 1.024931e-07 1.008842e-07 9.798656e-08 9.710270e-08
 [926] 9.284758e-08 9.224313e-08 9.173766e-08 8.809370e-08 8.660454e-08
 [931] 8.590534e-08 8.359196e-08 8.144738e-08 7.782381e-08 7.654164e-08
 [936] 7.389701e-08 7.364270e-08 7.055061e-08 7.016066e-08 6.992371e-08

```

[941] 6.966028e-08 6.930614e-08 6.868510e-08 6.782377e-08 6.652638e-08
[946] 6.637913e-08 6.612156e-08 6.604682e-08 6.362157e-08 6.215972e-08
[951] 6.178454e-08 6.084416e-08 5.918942e-08 5.891908e-08 5.670279e-08
[956] 5.463119e-08 5.443634e-08 5.378642e-08 4.948199e-08 4.891328e-08
[961] 4.859406e-08 4.490586e-08 4.453732e-08 4.398260e-08 4.288657e-08
[966] 4.173601e-08 3.975500e-08 3.912847e-08 3.819907e-08 3.699628e-08
[971] 3.641969e-08 3.501455e-08 3.475488e-08 3.316992e-08 3.160903e-08
[976] 3.132570e-08 3.127197e-08 2.933707e-08 2.901609e-08 2.894428e-08
[981] 2.875559e-08 2.751032e-08 2.741625e-08 2.737797e-08 2.470341e-08
[986] 2.465432e-08 2.352904e-08 2.265495e-08 2.214708e-08 2.177746e-08
[991] 2.176031e-08 2.065439e-08 1.951626e-08 1.936570e-08 1.933329e-08
[996] 1.929950e-08 1.898659e-08 1.877532e-08 1.860593e-08 1.681573e-08
[1001] 1.638367e-08 1.567563e-08 1.552947e-08 1.531931e-08 1.429458e-08
[1006] 1.421348e-08 1.419710e-08 1.384586e-08 1.375462e-08 1.361437e-08
[1011] 1.334220e-08 1.307774e-08 1.286995e-08 1.281572e-08 1.246717e-08
[1016] 1.233222e-08 1.223427e-08 1.209428e-08 1.195342e-08 1.195278e-08
[1021] 1.144617e-08 1.132389e-08 1.124196e-08 1.123959e-08 1.115111e-08
[1026] 1.104225e-08 1.094152e-08 1.090977e-08 1.083190e-08 1.058461e-08
[1031] 9.790809e-09 9.617025e-09 9.403447e-09 9.335947e-09 8.984958e-09
[1036] 8.605294e-09 8.431043e-09 7.946891e-09 7.832869e-09 7.808352e-09
[1041] 7.627300e-09 7.309328e-09 7.229978e-09 7.151841e-09 6.583925e-09
[1046] 6.048505e-09 5.999192e-09 5.560139e-09 5.409282e-09 5.135293e-09
[1051] 4.714647e-09 4.640672e-09 4.509132e-09 4.129122e-09 4.087688e-09
[1056] 3.750259e-09 3.519412e-09 3.388154e-09 3.267304e-09 2.937690e-09
[1061] 2.889436e-09 2.502677e-09 2.498999e-09 2.445018e-09 2.032706e-09
[1066] 1.967438e-09 1.820362e-09 1.675807e-09 1.391757e-09 1.344210e-09
[1071] 1.177156e-09 1.158014e-09

```

```
> ctables
```

```

      TP  FN  FP  TN
0.5   18 251  21 782
0.75  18 251  16 787
0.9   18 251  13 790

```

Another function called ‘contabs’ is provided for computing contingency tables when the true underlying network is known. The `scores` function can be used to obtain common assessment statistics from the contingency tables, including sensitivity, specificity, precision, recall, and false discovery rate among other measures.

```
> scores( ctables, what = c("FDR", "precision", "recall"))
```

```

      FDR precision    recall
0.5  0.5384615 0.4615385 0.0669145
0.75 0.4705882 0.5294118 0.0669145
0.9  0.4193548 0.5806452 0.0669145

```

Areas under the ROC and Precision-Recall curves covered by contingency tables can also be estimated using functions `roc` and `prc`, with the option to plot the associated curves. The following gives the ROC and Precision-Recall curves associated with the default contingency tables, in which the thresholds are all values for posterior probabilities that appear in `edges.ScanBMA`.

```
> roc( contabs.netwBMA( edges.ScanBMA, referencePairs), plotit = TRUE)
```

```
[1] "network Before:"
```

| | Regulator | TargetGene | prob |
|------|-----------|------------|--------------|
| 203 | YJR094C | YJR094C | 1.000000e+00 |
| 301 | YOR032C | YOR032C | 1.000000e+00 |
| 1602 | YDR216W | YDR216W | 1.000000e+00 |
| 2102 | YDL170W | YDL170W | 1.000000e+00 |
| 2202 | YKL062W | YKL062W | 1.000000e+00 |
| 2203 | YGL254W | YGL254W | 1.000000e+00 |
| 2301 | YKL015W | YKL015W | 1.000000e+00 |
| 2501 | YKL112W | YKL112W | 1.000000e+00 |
| 3401 | YMR280C | YMR280C | 1.000000e+00 |
| 3701 | YDR043C | YDR043C | 1.000000e+00 |
| 5702 | YER040W | YER040W | 1.000000e+00 |
| 6101 | YKL112W | YNL270C | 1.000000e+00 |
| 7601 | YDL170W | YCR010C | 1.000000e+00 |
| 8801 | YKL062W | YKR009C | 1.000000e+00 |
| 9801 | YDL170W | YJR110W | 1.000000e+00 |
| 9901 | YKL062W | YDR216W | 1.000000e+00 |
| 2004 | YKL062W | YER150W | 1.000000e+00 |
| 3703 | YKL062W | YIL136W | 1.000000e+00 |
| 2903 | YKL062W | YMR169C | 1.000000e+00 |
| 7104 | YKL062W | YDR361C | 1.000000e+00 |
| 904 | YDR216W | YDR171W | 1.000000e+00 |
| 5303 | YER040W | YMR229C | 1.000000e+00 |
| 4903 | YBL103C | YLR327C | 1.000000e+00 |
| 7604 | YKL062W | YAL062W | 1.000000e+00 |
| 2005 | YKL015W | YER150W | 9.999999e-01 |
| 2305 | YDR043C | YLR009W | 9.999997e-01 |
| 1402 | YKL062W | YFL014W | 9.999968e-01 |
| 1002 | YDR043C | YCR021C | 9.999784e-01 |
| 9203 | YKL062W | YLR178C | 9.999588e-01 |
| 3503 | YDR043C | YER002W | 9.926295e-01 |
| 1603 | YER040W | YDL170W | 9.903681e-01 |
| 7004 | YBL103C | YPR002W | 9.882139e-01 |
| 605 | YMR280C | YNL036W | 9.870398e-01 |
| 9702 | YKL015W | YKL040C | 9.828064e-01 |
| 8405 | YDL170W | YHR029C | 9.759532e-01 |
| 1104 | YKL062W | YGR043C | 9.096228e-01 |

| | | | |
|------|---------|---------|--------------|
| 404 | YDL170W | YER040W | 8.727256e-01 |
| 2405 | YKL062W | YPL111W | 8.450150e-01 |
| 7005 | YER040W | YPR002W | 8.164570e-01 |
| 805 | YKL062W | YHR136C | 6.882579e-01 |
| 3005 | YKL062W | YNR046W | 6.295850e-01 |
| 2805 | YBL103C | YOR100C | 5.552321e-01 |
| 1508 | YDL170W | YOR348C | 5.286012e-01 |
| 3904 | YDR043C | YER158C | 5.123184e-01 |
| 1509 | YDR216W | YOR348C | 4.627022e-01 |
| 4505 | YKL062W | YCL064C | 4.302623e-01 |
| 3506 | YKL062W | YER002W | 4.202709e-01 |
| 3006 | YDR043C | YNR046W | 4.069155e-01 |
| 8906 | YDR043C | YLL034C | 3.694592e-01 |
| 4406 | YMR280C | YKR056W | 3.552051e-01 |
| 5207 | YKL062W | YHL028W | 3.319017e-01 |
| 8907 | YKL062W | YLL034C | 3.147426e-01 |
| 2406 | YKL112W | YPL111W | 3.118635e-01 |
| 6110 | YKL015W | YDR258C | 2.726643e-01 |
| 8408 | YER040W | YHR029C | 2.620775e-01 |
| 8409 | YKL112W | YHR029C | 2.182628e-01 |
| 9105 | YDR043C | YER067W | 2.008918e-01 |
| 7006 | YDL170W | YPR002W | 1.717569e-01 |
| 2707 | YDR043C | YPL012W | 1.621825e-01 |
| 8104 | YJR094C | YBL042C | 9.687050e-02 |
| 4204 | YMR280C | YGR067C | 9.326290e-02 |
| 8706 | YKL062W | YLR258W | 8.575580e-02 |
| 7805 | YKL062W | YPL036W | 8.001430e-02 |
| 8506 | YKL062W | YOL014W | 7.639610e-02 |
| 1306 | YMR280C | YAL054C | 6.050860e-02 |
| 3207 | YKL062W | YMR193W | 5.076040e-02 |
| 2008 | YDL170W | YER150W | 3.848110e-02 |
| 2009 | YBL103C | YER150W | 3.700350e-02 |
| 6119 | YBL103C | YDR258C | 3.174569e-02 |
| 4508 | YMR280C | YCL064C | 3.002860e-02 |
| 3407 | YDR043C | YLR174W | 2.925340e-02 |
| 5706 | YDL170W | YJL088W | 2.902040e-02 |
| 1512 | YKL062W | YOR348C | 2.571560e-02 |
| 9607 | YKL112W | YJL153C | 2.486470e-02 |
| 709 | YDR043C | YML123C | 2.458570e-02 |
| 5009 | YKL062W | YDL091C | 2.103520e-02 |
| 5407 | YKL062W | YOR206W | 2.060740e-02 |
| 922 | YKL062W | YDR171W | 1.930490e-02 |
| 7806 | YBL103C | YPL036W | 1.577170e-02 |
| 1513 | YKL015W | YOR348C | 1.477050e-02 |
| 1710 | YGL254W | YBR054W | 1.424450e-02 |

| | | | |
|------|---------|---------|--------------|
| 6706 | YDR043C | YKR009C | 1.127072e-02 |
| 4613 | YKL112W | YJL063C | 1.119170e-02 |
| 815 | YDR043C | YHR136C | 9.952100e-03 |
| 2503 | YDR043C | YOR388C | 8.822526e-03 |
| 9916 | YKL015W | YKL062W | 7.384918e-03 |
| 7807 | YOR032C | YPL036W | 7.080500e-03 |
| 2711 | YKL062W | YPL012W | 6.664478e-03 |
| 3512 | YMR280C | YER002W | 6.093500e-03 |
| 6012 | YKL112W | YDR043C | 5.848100e-03 |
| 1807 | YDR216W | YCR010C | 4.388878e-03 |
| 8108 | YKL112W | YBL042C | 4.276927e-03 |
| 1414 | YKL015W | YFL014W | 4.134512e-03 |
| 319 | YDR216W | YMR280C | 3.392673e-03 |
| 7808 | YDR043C | YPL036W | 3.352507e-03 |
| 6413 | YMR280C | YLR276C | 3.311332e-03 |
| 5905 | YKL015W | YNR028W | 2.699416e-03 |
| 4412 | YKL112W | YKR056W | 2.263679e-03 |
| 7809 | YKL112W | YPL036W | 2.186318e-03 |
| 2613 | YKL062W | YJL172W | 2.031746e-03 |
| 321 | YER040W | YMR280C | 1.715859e-03 |
| 9210 | YKL015W | YLR178C | 1.640806e-03 |
| 2809 | YMR280C | YOR100C | 1.564278e-03 |
| 2114 | YGL254W | YPL061W | 1.349289e-03 |
| 9714 | YKL112W | YKL040C | 1.288645e-03 |
| 5824 | YDR043C | YLL011W | 1.228833e-03 |
| 4105 | YKL112W | YNR064C | 1.155329e-03 |
| 7612 | YKL112W | YAL062W | 1.143604e-03 |
| 7208 | YDR043C | YLL033W | 1.139963e-03 |
| 9924 | YDR216W | YKL062W | 1.136548e-03 |
| 2117 | YER040W | YPL061W | 1.097779e-03 |
| 9110 | YOR032C | YER067W | 9.938753e-04 |
| 5505 | YKL112W | YJR094C | 9.377215e-04 |
| 7615 | YER040W | YAL062W | 8.041847e-04 |
| 1311 | YDR216W | YAL054C | 7.240126e-04 |
| 3107 | YER040W | YJR110W | 7.085352e-04 |
| 1614 | YKL062W | YDL170W | 6.620358e-04 |
| 107 | YKL062W | YKL112W | 6.518338e-04 |
| 5314 | YKL112W | YMR229C | 6.153800e-04 |
| 9403 | YDR043C | YOR032C | 6.021894e-04 |
| 5827 | YKL062W | YLL011W | 5.800563e-04 |
| 1418 | YDL170W | YFL014W | 5.600695e-04 |
| 9823 | YKL015W | YHR087W | 4.882720e-04 |
| 326 | YDL170W | YMR280C | 4.740960e-04 |
| 8210 | YGL254W | YLR130C | 4.548084e-04 |
| 2909 | YKL015W | YMR169C | 4.510282e-04 |

| | | | |
|------|---------|---------|--------------|
| 2513 | YDL170W | YOR388C | 4.487671e-04 |
| 2719 | YMR280C | YPL012W | 3.749033e-04 |
| 2617 | YER040W | YJL172W | 3.361743e-04 |
| 2811 | YKL062W | YOR100C | 3.233403e-04 |
| 1422 | YDR216W | YFL014W | 3.179950e-04 |
| 8211 | YDR216W | YLR130C | 3.131830e-04 |
| 3916 | YKL015W | YER158C | 3.127803e-04 |
| 3917 | YOR032C | YER158C | 3.047235e-04 |
| 6207 | YBL103C | YKL071W | 2.745549e-04 |
| 7313 | YDL170W | YOR302W | 2.706648e-04 |
| 5509 | YDR043C | YJR094C | 2.677044e-04 |
| 5412 | YDR043C | YOR206W | 2.508847e-04 |
| 1315 | YGL254W | YAL054C | 2.484465e-04 |
| 7116 | YDR043C | YDR361C | 2.474675e-04 |
| 4208 | YDR216W | YGR067C | 2.437015e-04 |
| 8311 | YBL103C | YLR267W | 2.395245e-04 |
| 2024 | YER040W | YER150W | 2.334549e-04 |
| 3812 | YKL015W | YGR183C | 2.312097e-04 |
| 1022 | YER040W | YCR021C | 2.278207e-04 |
| 331 | YGL254W | YMR280C | 2.205116e-04 |
| 2722 | YOR032C | YPL012W | 2.181173e-04 |
| 4912 | YDR216W | YLR327C | 2.149646e-04 |
| 926 | YBL103C | YDR171W | 2.145629e-04 |
| 8215 | YMR280C | YLR130C | 2.124343e-04 |
| 2315 | YKL062W | YLR009W | 2.033173e-04 |
| 9512 | YOR032C | YHR216W | 2.023385e-04 |
| 3813 | YKL062W | YGR183C | 1.950767e-04 |
| 9933 | YDR043C | YKL062W | 1.860922e-04 |
| 108 | YDR043C | YKL112W | 1.859648e-04 |
| 4913 | YER040W | YLR327C | 1.794421e-04 |
| 9116 | YBL103C | YER067W | 1.754331e-04 |
| 7714 | YKL112W | YDR523C | 1.746721e-04 |
| 6018 | YOR032C | YDR043C | 1.741403e-04 |
| 3114 | YBL103C | YJR110W | 1.700068e-04 |
| 4914 | YKL015W | YLR327C | 1.686509e-04 |
| 5833 | YGL254W | YLL011W | 1.669997e-04 |
| 6809 | YOR032C | YKL015W | 1.653053e-04 |
| 2517 | YKL062W | YOR388C | 1.648864e-04 |
| 6623 | YKL112W | YNL037C | 1.642704e-04 |
| 4010 | YOR032C | YJR148W | 1.637047e-04 |
| 6127 | YER040W | YDR258C | 1.633385e-04 |
| 9214 | YER040W | YLR178C | 1.601746e-04 |
| 2121 | YDL170W | YPL061W | 1.597378e-04 |
| 5514 | YER040W | YJR094C | 1.526310e-04 |
| 9617 | YDR043C | YJL153C | 1.517209e-04 |

| | | | |
|------|---------|---------|--------------|
| 4711 | YBL103C | YDL160C | 1.405944e-04 |
| 2519 | YMR280C | YOR388C | 1.405749e-04 |
| 6722 | YER040W | YKR009C | 1.376892e-04 |
| 5913 | YER040W | YNR028W | 1.372189e-04 |
| 3720 | YER040W | YIL136W | 1.328123e-04 |
| 9725 | YKL062W | YKL040C | 1.314229e-04 |
| 1435 | YDR043C | YFL014W | 1.260688e-04 |
| 8017 | YKL062W | YOR056C | 1.242641e-04 |
| 8018 | YDR043C | YOR056C | 1.239953e-04 |
| 333 | YKL015W | YMR280C | 1.222893e-04 |
| 9122 | YDR216W | YER067W | 1.168811e-04 |
| 5516 | YDL170W | YJR094C | 1.163116e-04 |
| 1027 | YBL103C | YCR021C | 1.161262e-04 |
| 2520 | YER040W | YOR388C | 1.146756e-04 |
| 1111 | YOR032C | YGR043C | 1.121684e-04 |
| 8619 | YDR043C | YNR053C | 1.118330e-04 |
| 4918 | YDL170W | YLR327C | 1.106170e-04 |
| 5517 | YOR032C | YJR094C | 1.099354e-04 |
| 3115 | YGL254W | YJR110W | 1.098570e-04 |
| 1926 | YKL112W | YDR384C | 1.079826e-04 |
| 9409 | YKL062W | YOR032C | 1.017373e-04 |
| 335 | YBL103C | YMR280C | 9.858481e-05 |
| 6726 | YDL170W | YKR009C | 9.620874e-05 |
| 9939 | YMR280C | YKL062W | 9.431196e-05 |
| 5614 | YKL015W | YIL155C | 9.354593e-05 |
| 9729 | YOR032C | YKL040C | 9.145716e-05 |
| 1626 | YKL112W | YDL170W | 9.046739e-05 |
| 6906 | YMR280C | YGL009C | 8.908588e-05 |
| 5518 | YBL103C | YJR094C | 8.692344e-05 |
| 7718 | YKL062W | YDR523C | 8.603540e-05 |
| 6810 | YKL062W | YKL015W | 8.567141e-05 |
| 3317 | YKL015W | YGL254W | 8.378584e-05 |
| 9016 | YBL103C | YDL110C | 8.347189e-05 |
| 9831 | YKL062W | YHR087W | 8.229672e-05 |
| 6812 | YKL112W | YKL015W | 7.749511e-05 |
| 9732 | YER040W | YKL040C | 7.613779e-05 |
| 6627 | YMR280C | YNL037C | 7.514219e-05 |
| 2915 | YDL170W | YMR169C | 7.310313e-05 |
| 1448 | YJR094C | YFL014W | 7.215076e-05 |
| 7820 | YER040W | YPL036W | 7.199133e-05 |
| 9942 | YKL112W | YKL062W | 7.197676e-05 |
| 4623 | YMR280C | YJL063C | 7.114622e-05 |
| 9320 | YDR043C | YGL229C | 7.091607e-05 |
| 3820 | YMR280C | YGR183C | 6.982865e-05 |
| 7908 | YDR043C | YJL217W | 6.963837e-05 |

| | | | |
|------|---------|---------|--------------|
| 9321 | YMR280C | YGL229C | 6.960399e-05 |
| 1631 | YBL103C | YDL170W | 6.626979e-05 |
| 7410 | YKL015W | YNL270C | 6.502019e-05 |
| 6813 | YMR280C | YKL015W | 6.384302e-05 |
| 7722 | YER040W | YDR523C | 6.149331e-05 |
| 2629 | YDR043C | YJL172W | 6.110538e-05 |
| 1930 | YKL062W | YDR384C | 6.107044e-05 |
| 7411 | YMR280C | YNL270C | 6.048286e-05 |
| 6631 | YDR043C | YNL037C | 5.927016e-05 |
| 8221 | YKL062W | YLR130C | 5.818131e-05 |
| 7911 | YDR216W | YJL217W | 5.803088e-05 |
| 8312 | YDR043C | YLR267W | 5.777822e-05 |
| 5521 | YKL062W | YJR094C | 5.741613e-05 |
| 6734 | YBL103C | YKR009C | 5.716572e-05 |
| 7316 | YKL112W | YOR302W | 5.685453e-05 |
| 4812 | YKL112W | YIL037C | 5.673267e-05 |
| 5522 | YGL254W | YJR094C | 5.638254e-05 |
| 345 | YKL062W | YMR280C | 5.626418e-05 |
| 4217 | YKL112W | YGR067C | 5.606436e-05 |
| 3822 | YDR043C | YGR183C | 5.573155e-05 |
| 346 | YOR032C | YMR280C | 5.520617e-05 |
| 2918 | YMR280C | YMR169C | 5.451099e-05 |
| 9126 | YDL170W | YER067W | 5.374859e-05 |
| 415 | YDR043C | YER040W | 5.364057e-05 |
| 1036 | YDL170W | YCR021C | 5.325783e-05 |
| 7317 | YBL103C | YOR302W | 5.302314e-05 |
| 4715 | YER040W | YDL160C | 5.273234e-05 |
| 9514 | YBL103C | YHR216W | 5.246698e-05 |
| 2532 | YBL103C | YOR388C | 5.039521e-05 |
| 217 | YKL015W | YDR216W | 4.954761e-05 |
| 7412 | YKL062W | YNL270C | 4.826213e-05 |
| 1454 | YMR280C | YFL014W | 4.780681e-05 |
| 9417 | YKL015W | YOR032C | 4.762414e-05 |
| 4814 | YKL062W | YIL037C | 4.713642e-05 |
| 1632 | YDR043C | YDL170W | 4.549196e-05 |
| 7913 | YJR094C | YJL217W | 4.457401e-05 |
| 6639 | YKL015W | YNL037C | 4.409747e-05 |
| 5416 | YMR280C | YOR206W | 4.353974e-05 |
| 7320 | YER040W | YOR302W | 4.310284e-05 |
| 828 | YMR280C | YHR136C | 4.264791e-05 |
| 4117 | YMR280C | YNR064C | 4.233747e-05 |
| 6137 | YDR216W | YDR258C | 4.107077e-05 |
| 1635 | YOR032C | YDL170W | 4.050507e-05 |
| 5716 | YKL062W | YJL088W | 3.835422e-05 |
| 7015 | YKL112W | YPR002W | 3.770909e-05 |

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| 2533 | YJR094C | YOR388C | 3.752717e-05 |
| 1116 | YMR280C | YGR043C | 3.691210e-05 |
| 5719 | YER040W | YJL088W | 3.687478e-05 |
| 5112 | YMR280C | YHR051W | 3.681192e-05 |
| 218 | YDL170W | YDR216W | 3.627576e-05 |
| 9742 | YBL103C | YKL040C | 3.538803e-05 |
| 9131 | YER040W | YER067W | 3.517504e-05 |
| 9743 | YDL170W | YKL040C | 3.497766e-05 |
| 7828 | YDL170W | YPL036W | 3.488702e-05 |
| 8226 | YBL103C | YLR130C | 3.475313e-05 |
| 8432 | YBL103C | YHR029C | 3.468308e-05 |
| 9217 | YDL170W | YLR178C | 3.400787e-05 |
| 8520 | YMR280C | YOL014W | 3.384804e-05 |
| 6431 | YER040W | YLR276C | 3.326874e-05 |
| 7915 | YKL062W | YJL217W | 3.266112e-05 |
| 934 | YDL170W | YDR171W | 3.160488e-05 |
| 729 | YMR280C | YML123C | 3.133920e-05 |
| 5532 | YMR280C | YJR094C | 3.113875e-05 |
| 4118 | YBL103C | YNR064C | 3.087882e-05 |
| 7217 | YDL170W | YLL033W | 3.070819e-05 |
| 2217 | YDR043C | YKR075C | 3.051942e-05 |
| 8116 | YOR032C | YBL042C | 3.047466e-05 |
| 2218 | YMR280C | YKR075C | 3.011241e-05 |
| 9836 | YDL170W | YHR087W | 2.879614e-05 |
| 1821 | YKL062W | YCR010C | 2.857842e-05 |
| 8228 | YDL170W | YLR130C | 2.846683e-05 |
| 9517 | YKL015W | YHR216W | 2.820889e-05 |
| 126 | YOR032C | YKL112W | 2.805498e-05 |
| 1936 | YER040W | YDR384C | 2.805228e-05 |
| 3729 | YDL170W | YIL136W | 2.799122e-05 |
| 5720 | YKL112W | YJL088W | 2.778042e-05 |
| 6433 | YKL062W | YLR276C | 2.734314e-05 |
| 5851 | YMR280C | YLL011W | 2.686023e-05 |
| 9423 | YMR280C | YOR032C | 2.677814e-05 |
| 6318 | YKL062W | YNL194C | 2.659118e-05 |
| 7919 | YMR280C | YJL217W | 2.647862e-05 |
| 7513 | YKL112W | YFR022W | 2.604530e-05 |
| 8230 | YKL112W | YLR130C | 2.603658e-05 |
| 7832 | YMR280C | YPL036W | 2.583816e-05 |
| 7129 | YMR280C | YDR361C | 2.548553e-05 |
| 5930 | YBL103C | YNR028W | 2.494533e-05 |
| 2134 | YBL103C | YPL061W | 2.493416e-05 |
| 5931 | YDL170W | YNR028W | 2.485983e-05 |
| 5932 | YKL112W | YNR028W | 2.471808e-05 |
| 5031 | YOR032C | YDL091C | 2.446864e-05 |

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| 357 | YDR043C | YMR280C | 2.416850e-05 |
| 1824 | YER040W | YCR010C | 2.402678e-05 |
| 1328 | YDR043C | YAL054C | 2.399200e-05 |
| 128 | YDL170W | YKL112W | 2.377286e-05 |
| 6215 | YER040W | YKL071W | 2.315170e-05 |
| 223 | YER040W | YDR216W | 2.298749e-05 |
| 7922 | YOR032C | YJL217W | 2.297164e-05 |
| 8233 | YER040W | YLR130C | 2.288770e-05 |
| 833 | YGL254W | YHR136C | 2.279321e-05 |
| 9331 | YKL112W | YGL229C | 2.233116e-05 |
| 2928 | YER040W | YMR169C | 2.222405e-05 |
| 9950 | YOR032C | YKL062W | 2.159891e-05 |
| 1826 | YBL103C | YCR010C | 2.153017e-05 |
| 6021 | YKL062W | YDR043C | 2.129365e-05 |
| 5852 | YKL112W | YLL011W | 2.110915e-05 |
| 7735 | YDL170W | YDR523C | 2.080357e-05 |
| 7219 | YKL112W | YLL033W | 2.072730e-05 |
| 2138 | YKL112W | YPL061W | 2.063347e-05 |
| 733 | YKL062W | YML123C | 2.040661e-05 |
| 7736 | YDR043C | YDR523C | 1.995620e-05 |
| 834 | YKL015W | YHR136C | 1.980063e-05 |
| 9840 | YDR216W | YHR087W | 1.974842e-05 |
| 6523 | YKL112W | YLR438W | 1.946194e-05 |
| 7518 | YOR032C | YFR022W | 1.935727e-05 |
| 4529 | YJR094C | YCL064C | 1.919554e-05 |
| 9424 | YBL103C | YOR032C | 1.881462e-05 |
| 2932 | YDR216W | YMR169C | 1.861922e-05 |
| 4822 | YDL170W | YIL037C | 1.845615e-05 |
| 7221 | YER040W | YLL033W | 1.842544e-05 |
| 3025 | YBL103C | YNR046W | 1.814905e-05 |
| 2324 | YMR280C | YLR009W | 1.811048e-05 |
| 6440 | YDR043C | YLR276C | 1.784551e-05 |
| 1830 | YGL254W | YCR010C | 1.780305e-05 |
| 1214 | YKL062W | YHR018C | 1.774828e-05 |
| 1339 | YER040W | YAL054C | 1.757101e-05 |
| 522 | YDR043C | YGR142W | 1.699126e-05 |
| 8040 | YKL112W | YOR056C | 1.689480e-05 |
| 2546 | YKL112W | YOR388C | 1.669787e-05 |
| 2325 | YDL170W | YLR009W | 1.659497e-05 |
| 4720 | YDR043C | YDL160C | 1.653961e-05 |
| 2834 | YKL112W | YOR100C | 1.603619e-05 |
| 2547 | YDR216W | YOR388C | 1.600462e-05 |
| 2229 | YKL112W | YKR075C | 1.599917e-05 |
| 7628 | YGL254W | YAL062W | 1.597608e-05 |
| 6745 | YMR280C | YKR009C | 1.585847e-05 |

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| 4721 | YDL170W | YDL160C | 1.577741e-05 |
| 5538 | YDR216W | YJR094C | 1.554942e-05 |
| 6145 | YMR280C | YDR258C | 1.544585e-05 |
| 4315 | YBL103C | YPL265W | 1.533936e-05 |
| 9021 | YKL062W | YDL110C | 1.526807e-05 |
| 5858 | YDL170W | YLL011W | 1.507655e-05 |
| 4232 | YKL062W | YGR067C | 1.502316e-05 |
| 7838 | YKL015W | YPL036W | 1.502199e-05 |
| 6648 | YBL103C | YNL037C | 1.477513e-05 |
| 1832 | YKL112W | YCR010C | 1.459846e-05 |
| 9425 | YKL112W | YOR032C | 1.447197e-05 |
| 7428 | YDR043C | YNL270C | 1.433132e-05 |
| 3130 | YKL112W | YJR110W | 1.402890e-05 |
| 2838 | YER040W | YOR100C | 1.382148e-05 |
| 1467 | YBL103C | YFL014W | 1.368202e-05 |
| 3836 | YKL112W | YGR183C | 1.352707e-05 |
| 4427 | YDR216W | YKR056W | 1.341729e-05 |
| 1124 | YDL170W | YGR043C | 1.301385e-05 |
| 2230 | YER040W | YKR075C | 1.299394e-05 |
| 6932 | YKL062W | YGL009C | 1.289146e-05 |
| 9336 | YDR216W | YGL229C | 1.248088e-05 |
| 6149 | YKL062W | YDR258C | 1.215705e-05 |
| 7227 | YOR032C | YLL033W | 1.201057e-05 |
| 1343 | YDL170W | YAL054C | 1.196407e-05 |
| 4936 | YGL254W | YLR327C | 1.194683e-05 |
| 6444 | YDL170W | YLR276C | 1.164164e-05 |
| 2333 | YBL103C | YLR009W | 1.159344e-05 |
| 7927 | YDL170W | YJL217W | 1.140154e-05 |
| 6747 | YKL112W | YKR009C | 1.134916e-05 |
| 1471 | YKL112W | YFL014W | 1.127983e-05 |
| 2941 | YBL103C | YMR169C | 1.098467e-05 |
| 9144 | YKL062W | YER067W | 1.097955e-05 |
| 1215 | YER040W | YHR018C | 1.083133e-05 |
| 9338 | YBL103C | YGL229C | 1.082496e-05 |
| 7231 | YBL103C | YLL033W | 1.076115e-05 |
| 4130 | YDL170W | YNR064C | 1.073972e-05 |
| 9524 | YDR043C | YHR216W | 1.045144e-05 |
| 7929 | YER040W | YJL217W | 1.039800e-05 |
| 2231 | YKL062W | YKR075C | 1.039026e-05 |
| 525 | YER040W | YGR142W | 1.037287e-05 |
| 228 | YBL103C | YDR216W | 1.024234e-05 |
| 6224 | YOR032C | YKL071W | 1.019095e-05 |
| 4017 | YKL112W | YJR148W | 1.003964e-05 |
| 2750 | YBL103C | YPL012W | 9.716072e-06 |
| 3735 | YKL112W | YIL136W | 9.671371e-06 |

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| 1841 | YKL015W | YCR010C | 9.255886e-06 |
| 9339 | YKL062W | YGL229C | 9.223619e-06 |
| 939 | YKL015W | YDR171W | 9.164611e-06 |
| 3220 | YDR043C | YMR193W | 8.846968e-06 |
| 2650 | YDL170W | YJL172W | 8.765911e-06 |
| 8050 | YMR280C | YOR056C | 8.730850e-06 |
| 4942 | YKL112W | YLR327C | 8.719970e-06 |
| 4133 | YKL015W | YNR064C | 8.676632e-06 |
| 2944 | YDR043C | YMR169C | 8.666203e-06 |
| 6227 | YDL170W | YKL071W | 8.418289e-06 |
| 2652 | YKL112W | YJL172W | 8.344594e-06 |
| 6530 | YKL062W | YLR438W | 8.248821e-06 |
| 9631 | YMR280C | YJL153C | 8.221192e-06 |
| 6321 | YKL015W | YNL194C | 8.092109e-06 |
| 1127 | YBL103C | YGR043C | 7.981064e-06 |
| 6830 | YDR043C | YKL015W | 7.920131e-06 |
| 2842 | YOR032C | YOR100C | 7.858714e-06 |
| 2560 | YOR032C | YOR388C | 7.775450e-06 |
| 5039 | YMR280C | YDL091C | 7.742857e-06 |
| 2563 | YGL254W | YOR388C | 7.673306e-06 |
| 3737 | YKL015W | YIL136W | 7.634000e-06 |
| 141 | YER040W | YKL112W | 7.585626e-06 |
| 4321 | YMR280C | YPL265W | 7.562203e-06 |
| 6449 | YDR216W | YLR276C | 7.544046e-06 |
| 4826 | YDR043C | YIL037C | 7.505486e-06 |
| 7932 | YGL254W | YJL217W | 7.493570e-06 |
| 3738 | YOR032C | YIL136W | 7.300849e-06 |
| 9632 | YER040W | YJL153C | 7.289606e-06 |
| 9760 | YDR216W | YKL040C | 7.271380e-06 |
| 2947 | YOR032C | YMR169C | 7.011217e-06 |
| 9633 | YKL062W | YJL153C | 6.932814e-06 |
| 2654 | YMR280C | YJL172W | 6.897514e-06 |
| 5040 | YKL112W | YDL091C | 6.815323e-06 |
| 7530 | YMR280C | YFR022W | 6.623200e-06 |
| 4637 | YKL062W | YJL063C | 6.380821e-06 |
| 7441 | YDL170W | YNL270C | 6.323033e-06 |
| 8819 | YKL062W | YDR380W | 6.252150e-06 |
| 3338 | YKL062W | YGL254W | 6.230039e-06 |
| 4434 | YKL062W | YKR056W | 6.177072e-06 |
| 2846 | YDL170W | YOR100C | 6.089676e-06 |
| 8727 | YKL015W | YLR258W | 6.082714e-06 |
| 4138 | YER040W | YNR064C | 5.784629e-06 |
| 6833 | YDL170W | YKL015W | 5.579904e-06 |
| 8323 | YKL112W | YLR267W | 5.497778e-06 |
| 4540 | YDL170W | YCL064C | 5.435528e-06 |

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| 6942 | YDR043C | YGL009C | 5.416631e-06 |
| 7937 | YBL103C | YJL217W | 5.410236e-06 |
| 7442 | YDR216W | YNL270C | 5.205863e-06 |
| 1958 | YBL103C | YDR384C | 5.189335e-06 |
| 4833 | YMR280C | YIL037C | 5.110947e-06 |
| 9763 | YGL254W | YKL040C | 5.073716e-06 |
| 5549 | YKL015W | YJR094C | 4.750102e-06 |
| 5943 | YGL254W | YNR028W | 4.728916e-06 |
| 9025 | YOR032C | YDL110C | 4.665576e-06 |
| 4641 | YDL170W | YJL063C | 4.660066e-06 |
| 7144 | YKL112W | YDR361C | 4.628863e-06 |
| 3932 | YKL062W | YER158C | 4.620258e-06 |
| 8824 | YDR043C | YDR380W | 4.581335e-06 |
| 2426 | YDR043C | YPL111W | 4.570775e-06 |
| 5729 | YDR216W | YJL088W | 4.563106e-06 |
| 4249 | YER040W | YGR067C | 4.538197e-06 |
| 6454 | YKL112W | YLR276C | 4.525177e-06 |
| 4544 | YDR043C | YCL064C | 4.335303e-06 |
| 7145 | YER040W | YDR361C | 4.291178e-06 |
| 377 | YKL112W | YMR280C | 4.281128e-06 |
| 3225 | YGL254W | YMR193W | 4.210543e-06 |
| 7942 | YKL015W | YJL217W | 4.155309e-06 |
| 5047 | YDR043C | YDL091C | 4.129784e-06 |
| 9158 | YKL112W | YER067W | 4.089677e-06 |
| 3742 | YBL103C | YIL136W | 4.006699e-06 |
| 6167 | YDR043C | YDR258C | 3.994869e-06 |
| 1065 | YMR280C | YCR021C | 3.968059e-06 |
| 4645 | YDR216W | YJL063C | 3.884346e-06 |
| 1066 | YKL112W | YCR021C | 3.843331e-06 |
| 3346 | YDL170W | YGL254W | 3.842424e-06 |
| 5870 | YER040W | YLL011W | 3.831991e-06 |
| 3347 | YDR043C | YGL254W | 3.819941e-06 |
| 9160 | YKL015W | YER067W | 3.814344e-06 |
| 7943 | YKL112W | YJL217W | 3.784805e-06 |
| 3348 | YER040W | YGL254W | 3.779341e-06 |
| 9162 | YGL254W | YER067W | 3.775882e-06 |
| 4546 | YER040W | YCL064C | 3.749530e-06 |
| 2851 | YDR216W | YOR100C | 3.747063e-06 |
| 6025 | YKL015W | YDR043C | 3.733617e-06 |
| 5871 | YKL015W | YLL011W | 3.701246e-06 |
| 3421 | YDR216W | YLR174W | 3.687687e-06 |
| 7537 | YER040W | YFR022W | 3.684195e-06 |
| 4251 | YDL170W | YGR067C | 3.660468e-06 |
| 7765 | YMR280C | YDR523C | 3.576189e-06 |
| 7538 | YBL103C | YFR022W | 3.521667e-06 |

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| 9352 | YER040W | YGL229C | 3.488473e-06 |
| 6662 | YDR216W | YNL037C | 3.466172e-06 |
| 1477 | YOR032C | YFL014W | 3.462118e-06 |
| 3422 | YMR280C | YLR174W | 3.402917e-06 |
| 6234 | YDR043C | YKL071W | 3.395999e-06 |
| 4739 | YDR216W | YDL160C | 3.382019e-06 |
| 7447 | YBL103C | YNL270C | 3.361308e-06 |
| 5219 | YDR043C | YHL028W | 3.354458e-06 |
| 7448 | YER040W | YNL270C | 3.335423e-06 |
| 4331 | YKL112W | YPL265W | 3.320012e-06 |
| 4333 | YER040W | YPL265W | 3.250735e-06 |
| 4965 | YKL062W | YLR327C | 3.208970e-06 |
| 6665 | YDL170W | YNL037C | 3.141530e-06 |
| 3041 | YDL170W | YNR046W | 3.120892e-06 |
| 9444 | YER040W | YOR032C | 3.065905e-06 |
| 5124 | YKL062W | YHR051W | 3.065417e-06 |
| 4742 | YKL112W | YDL160C | 3.042818e-06 |
| 2658 | YBL103C | YJL172W | 2.997725e-06 |
| 4654 | YBL103C | YJL063C | 2.977507e-06 |
| 9535 | YDR216W | YHR216W | 2.959753e-06 |
| 9026 | YDR043C | YDL110C | 2.928778e-06 |
| 1534 | YBL103C | YOR348C | 2.927453e-06 |
| 4655 | YGL254W | YJL063C | 2.856963e-06 |
| 8122 | YDR043C | YBL042C | 2.835073e-06 |
| 380 | YJR094C | YMR280C | 2.833007e-06 |
| 7770 | YDR216W | YDR523C | 2.803375e-06 |
| 9028 | YDL170W | YDL110C | 2.757057e-06 |
| 1355 | YKL112W | YAL054C | 2.744895e-06 |
| 6947 | YKL112W | YGL009C | 2.743455e-06 |
| 9641 | YJR094C | YJL153C | 2.740551e-06 |
| 149 | YGL254W | YKL112W | 2.727368e-06 |
| 7342 | YMR280C | YOR302W | 2.700377e-06 |
| 3869 | YOR032C | YGR183C | 2.659605e-06 |
| 8735 | YMR280C | YLR258W | 2.656563e-06 |
| 2578 | YKL015W | YOR388C | 2.655979e-06 |
| 9773 | YDR043C | YKL040C | 2.650948e-06 |
| 6458 | YGL254W | YLR276C | 2.624911e-06 |
| 9537 | YKL112W | YHR216W | 2.618341e-06 |
| 418 | YMR280C | YER040W | 2.603506e-06 |
| 7771 | YOR032C | YDR523C | 2.569077e-06 |
| 3351 | YMR280C | YGL254W | 2.537092e-06 |
| 9539 | YGL254W | YHR216W | 2.521926e-06 |
| 8550 | YER040W | YOL014W | 2.459148e-06 |
| 2861 | YDR043C | YOR100C | 2.457407e-06 |
| 9971 | YJR094C | YKL062W | 2.426860e-06 |

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| 1071 | YKL062W | YCR021C | 2.416800e-06 |
| 1072 | YGL254W | YCR021C | 2.415506e-06 |
| 753 | YDR216W | YML123C | 2.412266e-06 |
| 1536 | YMR280C | YOR348C | 2.397289e-06 |
| 6843 | YER040W | YKL015W | 2.388349e-06 |
| 621 | YDR216W | YNL036W | 2.387436e-06 |
| 1482 | YER040W | YFL014W | 2.376735e-06 |
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| 7453 | YOR032C | YNL270C | 2.355988e-06 |
| 8329 | YDL170W | YLR267W | 2.345593e-06 |
| 539 | YKL112W | YGR142W | 2.332661e-06 |
| 9974 | YBL103C | YKL062W | 2.328548e-06 |
| 3149 | YDR043C | YJR110W | 2.292513e-06 |
| 947 | YER040W | YDR171W | 2.264645e-06 |
| 8737 | YDR216W | YLR258W | 2.235055e-06 |
| 948 | YDR043C | YDR171W | 2.206772e-06 |
| 9451 | YGL254W | YOR032C | 2.190747e-06 |
| 1483 | YGL254W | YFL014W | 2.188471e-06 |
| 7251 | YJR094C | YLL033W | 2.187865e-06 |
| 7772 | YBL103C | YDR523C | 2.181965e-06 |
| 4341 | YGL254W | YPL265W | 2.180645e-06 |
| 4036 | YMR280C | YJR148W | 2.170412e-06 |
| 7157 | YBL103C | YDR361C | 2.162694e-06 |
| 2163 | YKL015W | YPL061W | 2.158359e-06 |
| 150 | YBL103C | YKL112W | 2.157105e-06 |
| 3045 | YMR280C | YNR046W | 2.157020e-06 |
| 4972 | YMR280C | YLR327C | 2.125996e-06 |
| 4660 | YDR043C | YJL063C | 2.122301e-06 |
| 6538 | YBL103C | YLR438W | 2.069954e-06 |
| 5958 | YDR216W | YNR028W | 2.053595e-06 |
| 1138 | YDR043C | YGR043C | 2.052446e-06 |
| 3425 | YDL170W | YLR174W | 2.008937e-06 |
| 7862 | YGL254W | YPL036W | 1.993109e-06 |
| 9646 | YDL170W | YJL153C | 1.977620e-06 |
| 1966 | YDL170W | YDR384C | 1.969089e-06 |
| 544 | YDL170W | YGR142W | 1.894895e-06 |
| 860 | YOR032C | YHR136C | 1.893873e-06 |
| 243 | YKL112W | YDR216W | 1.849844e-06 |
| 9648 | YGL254W | YJL153C | 1.810807e-06 |
| 4444 | YDR043C | YKR056W | 1.807817e-06 |
| 1967 | YMR280C | YDR384C | 1.790257e-06 |
| 7253 | YMR280C | YLL033W | 1.787734e-06 |
| 8065 | YJR094C | YOR056C | 1.781800e-06 |
| 3936 | YBL103C | YER158C | 1.778938e-06 |
| 755 | YGL254W | YML123C | 1.770274e-06 |

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| 4267 | YDR043C | YGR067C | 1.766114e-06 |
| 6244 | YDR216W | YKL071W | 1.753050e-06 |
| 2775 | YKL015W | YPL012W | 1.751222e-06 |
| 3937 | YKL112W | YER158C | 1.749050e-06 |
| 624 | YKL062W | YNL036W | 1.710514e-06 |
| 4344 | YKL015W | YPL265W | 1.667861e-06 |
| 1540 | YDR043C | YOR348C | 1.657474e-06 |
| 4559 | YKL112W | YCL064C | 1.648619e-06 |
| 5630 | YDR216W | YIL155C | 1.634800e-06 |
| 8462 | YKL062W | YHR029C | 1.629413e-06 |
| 7551 | YDR043C | YFR022W | 1.615094e-06 |
| 8557 | YKL112W | YOL014W | 1.610283e-06 |
| 8464 | YGL254W | YHR029C | 1.604953e-06 |
| 9362 | YOR032C | YGL229C | 1.603476e-06 |
| 1362 | YKL062W | YAL054C | 1.593880e-06 |
| 6171 | YKL112W | YDR258C | 1.585309e-06 |
| 9035 | YDR216W | YDL110C | 1.579954e-06 |
| 2170 | YDR043C | YPL061W | 1.563278e-06 |
| 6245 | YKL062W | YKL071W | 1.549785e-06 |
| 9175 | YMR280C | YER067W | 1.477988e-06 |
| 1082 | YOR032C | YCR021C | 1.477241e-06 |
| 3875 | YER040W | YGR183C | 1.442289e-06 |
| 5059 | YKL015W | YDL091C | 1.437434e-06 |
| 5632 | YKL062W | YIL155C | 1.433407e-06 |
| 2970 | YKL112W | YMR169C | 1.428194e-06 |
| 7463 | YGL254W | YNL270C | 1.426510e-06 |
| 864 | YDR216W | YHR136C | 1.411803e-06 |
| 5060 | YDL170W | YDL091C | 1.406422e-06 |
| 4667 | YER040W | YJL063C | 1.389297e-06 |
| 7554 | YDL170W | YFR022W | 1.388916e-06 |
| 7776 | YKL015W | YDR523C | 1.370463e-06 |
| 1364 | YBL103C | YAL054C | 1.346004e-06 |
| 8072 | YER040W | YOR056C | 1.344296e-06 |
| 4148 | YDR043C | YNR064C | 1.342349e-06 |
| 2250 | YDL170W | YKR075C | 1.324519e-06 |
| 1736 | YDL170W | YBR054W | 1.313490e-06 |
| 2780 | YKL112W | YPL012W | 1.298412e-06 |
| 2362 | YKL112W | YLR009W | 1.291328e-06 |
| 4346 | YDR216W | YPL265W | 1.287961e-06 |
| 548 | YKL062W | YGR142W | 1.281227e-06 |
| 9466 | YJR094C | YOR032C | 1.276102e-06 |
| 9467 | YDL170W | YOR032C | 1.269964e-06 |
| 9546 | YER040W | YHR216W | 1.264038e-06 |
| 3357 | YBL103C | YGL254W | 1.263555e-06 |
| 9547 | YMR280C | YHR216W | 1.242194e-06 |

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| 4561 | YBL103C | YCL064C | 1.241591e-06 |
| 4981 | YDR043C | YLR327C | 1.240844e-06 |
| 5228 | YKL015W | YHL028W | 1.239132e-06 |
| 1085 | YDR216W | YCR021C | 1.237335e-06 |
| 9779 | YJR094C | YKL040C | 1.230766e-06 |
| 2363 | YER040W | YLR009W | 1.229627e-06 |
| 549 | YOR032C | YGR142W | 1.216262e-06 |
| 761 | YKL015W | YML123C | 1.201315e-06 |
| 6680 | YKL062W | YNL037C | 1.199350e-06 |
| 6248 | YJR094C | YKL071W | 1.176498e-06 |
| 2676 | YOR032C | YJL172W | 1.164790e-06 |
| 1972 | YDR043C | YDR384C | 1.148392e-06 |
| 4448 | YER040W | YKR056W | 1.141432e-06 |
| 9233 | YMR280C | YLR178C | 1.132936e-06 |
| 1369 | YOR032C | YAL054C | 1.124635e-06 |
| 7363 | YGL254W | YOR302W | 1.118812e-06 |
| 9863 | YMR280C | YHR087W | 1.116292e-06 |
| 1144 | YKL112W | YGR043C | 1.112887e-06 |
| 6682 | YER040W | YNL037C | 1.111894e-06 |
| 2173 | YKL062W | YPL061W | 1.101458e-06 |
| 4348 | YDL170W | YPL265W | 1.094165e-06 |
| 4984 | YOR032C | YLR327C | 1.069947e-06 |
| 3364 | YOR032C | YGL254W | 1.048031e-06 |
| 1672 | YMR280C | YDL170W | 1.041926e-06 |
| 9039 | YMR280C | YDL110C | 1.041197e-06 |
| 6542 | YER040W | YLR438W | 1.040094e-06 |
| 9982 | YER040W | YKL062W | 1.034413e-06 |
| 9983 | YDL170W | YKL062W | 1.032724e-06 |
| 2878 | YKL015W | YOR100C | 1.031000e-06 |
| 1868 | YJR094C | YCR010C | 1.030673e-06 |
| 956 | YMR280C | YDR171W | 1.029089e-06 |
| 1550 | YGL254W | YOR348C | 1.027904e-06 |
| 9783 | YMR280C | YKL040C | 1.015636e-06 |
| 2684 | YGL254W | YJL172W | 1.008334e-06 |
| 9182 | YJR094C | YER067W | 9.999383e-07 |
| 5134 | YDR043C | YHR051W | 9.971306e-07 |
| 3053 | YER040W | YNR046W | 9.909783e-07 |
| 3753 | YDR216W | YIL136W | 9.857975e-07 |
| 7650 | YMR280C | YAL062W | 9.848851e-07 |
| 1145 | YDR216W | YGR043C | 9.804780e-07 |
| 8470 | YDR043C | YHR029C | 9.783838e-07 |
| 869 | YJR094C | YHR136C | 9.761009e-07 |
| 2685 | YKL015W | YJL172W | 9.650616e-07 |
| 5880 | YBL103C | YLL011W | 9.559111e-07 |
| 7165 | YGL254W | YDR361C | 9.317072e-07 |

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| 3754 | YMR280C | YIL136W | 9.135168e-07 |
| 2177 | YMR280C | YPL061W | 8.869984e-07 |
| 630 | YKL112W | YNL036W | 8.823280e-07 |
| 3241 | YKL112W | YMR193W | 8.810514e-07 |
| 5639 | YKL112W | YIL155C | 8.776311e-07 |
| 7166 | YDL170W | YDR361C | 8.761235e-07 |
| 8472 | YMR280C | YHR029C | 8.759649e-07 |
| 7167 | YKL015W | YDR361C | 8.682706e-07 |
| 7365 | YDR043C | YOR302W | 8.664523e-07 |
| 5973 | YMR280C | YNR028W | 8.639333e-07 |
| 2431 | YBL103C | YPL111W | 8.596605e-07 |
| 4991 | YJR094C | YLR327C | 8.580287e-07 |
| 8268 | YKL015W | YLR130C | 8.561111e-07 |
| 6255 | YKL112W | YKL071W | 8.486958e-07 |
| 4856 | YKL015W | YIL037C | 8.468379e-07 |
| 7561 | YKL062W | YFR022W | 8.416769e-07 |
| 9985 | YGL254W | YKL062W | 8.364092e-07 |
| 6256 | YGL254W | YKL071W | 8.352567e-07 |
| 4045 | YER040W | YJR148W | 8.338371e-07 |
| 6961 | YER040W | YGL009C | 8.316683e-07 |
| 7260 | YGL254W | YLL033W | 8.290746e-07 |
| 9661 | YBL103C | YJL153C | 8.286573e-07 |
| 4352 | YDR043C | YPL265W | 8.229360e-07 |
| 6031 | YBL103C | YDR043C | 8.191253e-07 |
| 9043 | YGL254W | YDL110C | 8.165860e-07 |
| 7654 | YDL170W | YAL062W | 8.165204e-07 |
| 8270 | YDR043C | YLR130C | 8.090509e-07 |
| 6032 | YER040W | YDR043C | 8.042436e-07 |
| 7263 | YDR216W | YLL033W | 7.994614e-07 |
| 5975 | YDR043C | YNR028W | 7.923494e-07 |
| 2786 | YDL170W | YPL012W | 7.880993e-07 |
| 5348 | YKL015W | YMR229C | 7.879052e-07 |
| 3947 | YMR280C | YER158C | 7.858503e-07 |
| 1093 | YJR094C | YCR021C | 7.836278e-07 |
| 4857 | YER040W | YIL037C | 7.781892e-07 |
| 1149 | YER040W | YGR043C | 7.764863e-07 |
| 2787 | YDR216W | YPL012W | 7.691461e-07 |
| 9477 | YDR216W | YOR032C | 7.679790e-07 |
| 2788 | YER040W | YPL012W | 7.669801e-07 |
| 4279 | YGL254W | YGR067C | 7.661517e-07 |
| 4047 | YDL170W | YJR148W | 7.489216e-07 |
| 7883 | YDR216W | YPL036W | 7.387493e-07 |
| 169 | YDR216W | YKL112W | 7.366588e-07 |
| 5642 | YMR280C | YIL155C | 7.361374e-07 |
| 6965 | YJR094C | YGL009C | 7.361006e-07 |

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| 9557 | YKL062W | YHR216W | 7.351072e-07 |
| 247 | YMR280C | YDR216W | 7.329538e-07 |
| 3884 | YDL170W | YGR183C | 7.305360e-07 |
| 1151 | YGL254W | YGR043C | 7.266207e-07 |
| 4456 | YGL254W | YKR056W | 7.195516e-07 |
| 3171 | YDR216W | YJR110W | 7.138000e-07 |
| 557 | YBL103C | YGR142W | 7.092592e-07 |
| 6871 | YBL103C | YKL015W | 7.002450e-07 |
| 6264 | YMR280C | YKL071W | 6.904484e-07 |
| 3376 | YKL112W | YGL254W | 6.767052e-07 |
| 1871 | YDR043C | YCR010C | 6.712263e-07 |
| 632 | YDR043C | YNL036W | 6.706271e-07 |
| 1680 | YGL254W | YDL170W | 6.693954e-07 |
| 7373 | YKL062W | YOR302W | 6.677960e-07 |
| 8077 | YDL170W | YOR056C | 6.658879e-07 |
| 4160 | YOR032C | YNR064C | 6.650012e-07 |
| 2186 | YOR032C | YPL061W | 6.625361e-07 |
| 3886 | YBL103C | YGR183C | 6.597691e-07 |
| 772 | YER040W | YML123C | 6.541292e-07 |
| 3057 | YKL112W | YNR046W | 6.503307e-07 |
| 170 | YKL015W | YKL112W | 6.432367e-07 |
| 8567 | YGL254W | YOL014W | 6.424376e-07 |
| 171 | YMR280C | YKL112W | 6.413236e-07 |
| 1681 | YJR094C | YDL170W | 6.360728e-07 |
| 6970 | YBL103C | YGL009C | 6.325340e-07 |
| 8569 | YKL015W | YOL014W | 6.323808e-07 |
| 3175 | YKL062W | YJR110W | 6.300661e-07 |
| 7660 | YDR043C | YAL062W | 6.185747e-07 |
| 427 | YBL103C | YER040W | 6.169015e-07 |
| 2793 | YGL254W | YPL012W | 5.990736e-07 |
| 1876 | YMR280C | YCR010C | 5.978319e-07 |
| 4580 | YGL254W | YCL064C | 5.973382e-07 |
| 8278 | YJR094C | YLR130C | 5.940737e-07 |
| 1742 | YER040W | YBR054W | 5.938857e-07 |
| 4282 | YBL103C | YGR067C | 5.922053e-07 |
| 6477 | YKL015W | YLR276C | 5.916423e-07 |
| 5235 | YMR280C | YHL028W | 5.907707e-07 |
| 250 | YGL254W | YDR216W | 5.902564e-07 |
| 9668 | YDR216W | YJL153C | 5.740501e-07 |
| 8141 | YDR216W | YBL042C | 5.714690e-07 |
| 1098 | YKL015W | YCR021C | 5.696122e-07 |
| 5071 | YER040W | YDL091C | 5.683241e-07 |
| 1385 | YKL015W | YAL054C | 5.678535e-07 |
| 8078 | YDR216W | YOR056C | 5.630600e-07 |
| 8573 | YDR043C | YOL014W | 5.625008e-07 |

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| 4865 | YBL103C | YIL037C | 5.614932e-07 |
| 8079 | YKL015W | YOR056C | 5.599475e-07 |
| 881 | YKL112W | YHR136C | 5.596740e-07 |
| 9049 | YER040W | YDL110C | 5.589546e-07 |
| 4359 | YKL062W | YPL265W | 5.552876e-07 |
| 6549 | YMR280C | YLR438W | 5.550476e-07 |
| 8574 | YDR216W | YOL014W | 5.432053e-07 |
| 1557 | YOR032C | YOR348C | 5.431034e-07 |
| 4867 | YDR216W | YIL037C | 5.297112e-07 |
| 6277 | YKL015W | YKL071W | 5.276529e-07 |
| 1743 | YDR216W | YBR054W | 5.238594e-07 |
| 7383 | YDR216W | YOR302W | 5.237570e-07 |
| 8483 | YKL015W | YHR029C | 5.236999e-07 |
| 1685 | YDR216W | YDL170W | 5.192202e-07 |
| 5981 | YKL062W | YNR028W | 5.162115e-07 |
| 8575 | YJR094C | YOL014W | 5.118661e-07 |
| 3888 | YDR216W | YGR183C | 5.107006e-07 |
| 6980 | YDR216W | YGL009C | 5.106374e-07 |
| 5236 | YOR032C | YHL028W | 5.081974e-07 |
| 3180 | YOR032C | YJR110W | 5.080778e-07 |
| 8143 | YMR280C | YBL042C | 5.073792e-07 |
| 8484 | YJR094C | YHR029C | 5.034021e-07 |
| 884 | YER040W | YHR136C | 5.021893e-07 |
| 3181 | YMR280C | YJR110W | 4.998641e-07 |
| 6982 | YDL170W | YGL009C | 4.970752e-07 |
| 6983 | YKL015W | YGL009C | 4.964949e-07 |
| 7488 | YJR094C | YNL270C | 4.962869e-07 |
| 964 | YKL112W | YDR171W | 4.947203e-07 |
| 7790 | YJR094C | YDR523C | 4.920074e-07 |
| 431 | YKL062W | YER040W | 4.895102e-07 |
| 8280 | YOR032C | YLR130C | 4.781167e-07 |
| 4767 | YMR280C | YDL160C | 4.769419e-07 |
| 6787 | YDR216W | YKR009C | 4.766632e-07 |
| 7889 | YJR094C | YPL036W | 4.745089e-07 |
| 8751 | YKL112W | YLR258W | 4.740989e-07 |
| 5882 | YOR032C | YLL011W | 4.713644e-07 |
| 2260 | YBL103C | YKR075C | 4.684034e-07 |
| 6788 | YKL015W | YKR009C | 4.643860e-07 |
| 780 | YKL112W | YML123C | 4.601309e-07 |
| 6882 | YGL254W | YKL015W | 4.552744e-07 |
| 1236 | YBL103C | YHR018C | 4.530883e-07 |
| 8841 | YMR280C | YDR380W | 4.485931e-07 |
| 781 | YOR032C | YML123C | 4.472986e-07 |
| 2261 | YOR032C | YKR075C | 4.466655e-07 |
| 3761 | YDR043C | YIL136W | 4.448584e-07 |

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| 5883 | YDR216W | YLL011W | 4.434138e-07 |
| 7793 | YGL254W | YDR523C | 4.390647e-07 |
| 432 | YOR032C | YER040W | 4.352617e-07 |
| 6792 | YOR032C | YKR009C | 4.344212e-07 |
| 7579 | YGL254W | YFR022W | 4.316667e-07 |
| 4172 | YKL062W | YNR064C | 4.288806e-07 |
| 2796 | YJR094C | YPL012W | 4.265350e-07 |
| 6986 | YOR032C | YGL009C | 4.258122e-07 |
| 8931 | YMR280C | YLL034C | 4.248749e-07 |
| 9671 | YOR032C | YJL153C | 4.238481e-07 |
| 7280 | YKL062W | YLL033W | 4.176545e-07 |
| 9374 | YGL254W | YGL229C | 4.149649e-07 |
| 4289 | YKL015W | YGR067C | 4.148525e-07 |
| 7181 | YJR094C | YDR361C | 4.097223e-07 |
| 2888 | YGL254W | YOR100C | 4.081420e-07 |
| 1744 | YBL103C | YBR054W | 4.029918e-07 |
| 6795 | YGL254W | YKR009C | 4.005733e-07 |
| 7282 | YKL015W | YLL033W | 3.980712e-07 |
| 888 | YDL170W | YHR136C | 3.887055e-07 |
| 6187 | YJR094C | YDR258C | 3.883281e-07 |
| 7045 | YMR280C | YPR002W | 3.823072e-07 |
| 6887 | YDR216W | YKL015W | 3.821312e-07 |
| 889 | YBL103C | YHR136C | 3.793572e-07 |
| 9875 | YOR032C | YHR087W | 3.790158e-07 |
| 5991 | YJR094C | YNR028W | 3.767127e-07 |
| 2196 | YDR216W | YPL061W | 3.761245e-07 |
| 6992 | YGL254W | YGL009C | 3.735109e-07 |
| 6337 | YDL170W | YNL194C | 3.729228e-07 |
| 3393 | YDR216W | YGL254W | 3.724096e-07 |
| 2058 | YDR216W | YER150W | 3.672922e-07 |
| 6889 | YJR094C | YKL015W | 3.616828e-07 |
| 8762 | YJR094C | YLR258W | 3.615510e-07 |
| 9056 | YKL015W | YDL110C | 3.609496e-07 |
| 1987 | YOR032C | YDR384C | 3.586172e-07 |
| 5890 | YJR094C | YLL011W | 3.581117e-07 |
| 2197 | YJR094C | YPL061W | 3.537643e-07 |
| 4590 | YKL015W | YCL064C | 3.519563e-07 |
| 8088 | YBL103C | YOR056C | 3.479142e-07 |
| 6484 | YBL103C | YLR276C | 3.442676e-07 |
| 3893 | YJR094C | YGR183C | 3.421678e-07 |
| 7586 | YJR094C | YFR022W | 3.390082e-07 |
| 6696 | YGL254W | YNL037C | 3.369853e-07 |
| 5648 | YDR043C | YIL155C | 3.354674e-07 |
| 4058 | YBL103C | YJR148W | 3.334640e-07 |
| 3444 | YKL062W | YLR174W | 3.327381e-07 |

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| 4591 | YOR032C | YCL064C | 3.298702e-07 |
| 1161 | YJR094C | YGR043C | 3.293227e-07 |
| 4592 | YDR216W | YCL064C | 3.292035e-07 |
| 7392 | YKL015W | YOR302W | 3.283913e-07 |
| 3894 | YGL254W | YGR183C | 3.276725e-07 |
| 3952 | YDL170W | YER158C | 3.269552e-07 |
| 4777 | YKL062W | YDL160C | 3.264302e-07 |
| 9376 | YJR094C | YGL229C | 3.254555e-07 |
| 2993 | YJR094C | YMR169C | 3.244753e-07 |
| 4680 | YKL015W | YJL063C | 3.219492e-07 |
| 7587 | YDR216W | YFR022W | 3.217649e-07 |
| 2061 | YMR280C | YER150W | 3.207887e-07 |
| 7588 | YKL015W | YFR022W | 3.179528e-07 |
| 3191 | YJR094C | YJR110W | 3.130935e-07 |
| 8492 | YOR032C | YHR029C | 3.127845e-07 |
| 6191 | YDL170W | YDR258C | 3.109435e-07 |
| 5355 | YDL170W | YMR229C | 3.104245e-07 |
| 8583 | YDL170W | YOL014W | 3.100253e-07 |
| 9248 | YBL103C | YLR178C | 3.097832e-07 |
| 5756 | YBL103C | YJL088W | 3.096002e-07 |
| 6697 | YJR094C | YNL037C | 3.086074e-07 |
| 5356 | YDR043C | YMR229C | 3.039653e-07 |
| 5995 | YOR032C | YNR028W | 3.036747e-07 |
| 8765 | YGL254W | YLR258W | 3.024801e-07 |
| 565 | YGL254W | YGR142W | 3.020875e-07 |
| 4190 | YGL254W | YNR064C | 3.013679e-07 |
| 2891 | YJR094C | YOR100C | 3.007617e-07 |
| 8766 | YDL170W | YLR258W | 2.984309e-07 |
| 1747 | YMR280C | YBR054W | 2.971727e-07 |
| 4779 | YGL254W | YDL160C | 2.961868e-07 |
| 4370 | YOR032C | YPL265W | 2.961623e-07 |
| 2996 | YGL254W | YMR169C | 2.958872e-07 |
| 1991 | YKL015W | YDR384C | 2.958298e-07 |
| 6555 | YDL170W | YLR438W | 2.924751e-07 |
| 7394 | YOR032C | YOR302W | 2.898420e-07 |
| 3070 | YDR216W | YNR046W | 2.884668e-07 |
| 9379 | YDL170W | YGL229C | 2.876939e-07 |
| 4683 | YJR094C | YJL063C | 2.863136e-07 |
| 1992 | YGL254W | YDR384C | 2.825300e-07 |
| 1889 | YOR032C | YCR010C | 2.804243e-07 |
| 7190 | YDR216W | YDR361C | 2.792746e-07 |
| 5760 | YDR043C | YJL088W | 2.790037e-07 |
| 1691 | YKL015W | YDL170W | 2.758108e-07 |
| 3396 | YJR094C | YGL254W | 2.740896e-07 |
| 4061 | YDR043C | YJR148W | 2.724680e-07 |

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| 6798 | YJR094C | YKR009C | 2.702662e-07 |
| 4886 | YJR094C | YIL037C | 2.690251e-07 |
| 9249 | YJR094C | YLR178C | 2.670478e-07 |
| 6698 | YOR032C | YNL037C | 2.669472e-07 |
| 9877 | YGL254W | YHR087W | 2.651968e-07 |
| 1749 | YJR094C | YBR054W | 2.649163e-07 |
| 5649 | YOR032C | YIL155C | 2.647059e-07 |
| 4295 | YJR094C | YGR067C | 2.640644e-07 |
| 8496 | YDR216W | YHR029C | 2.626843e-07 |
| 8590 | YBL103C | YOL014W | 2.615476e-07 |
| 4888 | YGL254W | YIL037C | 2.591776e-07 |
| 4889 | YOR032C | YIL037C | 2.590316e-07 |
| 4685 | YOR032C | YJL063C | 2.589502e-07 |
| 5650 | YBL103C | YIL155C | 2.560221e-07 |
| 4780 | YOR032C | YDL160C | 2.526065e-07 |
| 6196 | YGL254W | YDR258C | 2.519042e-07 |
| 5457 | YDR216W | YOR206W | 2.515054e-07 |
| 3449 | YBL103C | YLR174W | 2.514381e-07 |
| 2696 | YDR216W | YJL172W | 2.492930e-07 |
| 6558 | YDR043C | YLR438W | 2.492428e-07 |
| 7396 | YJR094C | YOR302W | 2.490805e-07 |
| 8773 | YDR043C | YLR258W | 2.486179e-07 |
| 197 | YJR094C | YKL112W | 2.478300e-07 |
| 2384 | YDR216W | YLR009W | 2.461493e-07 |
| 8349 | YER040W | YLR267W | 2.413679e-07 |
| 3197 | YKL015W | YJR110W | 2.393831e-07 |
| 4063 | YJR094C | YJR148W | 2.390413e-07 |
| 5242 | YDR216W | YHL028W | 2.355627e-07 |
| 5458 | YOR032C | YOR206W | 2.355047e-07 |
| 3074 | YOR032C | YNR046W | 2.338360e-07 |
| 6197 | YOR032C | YDR258C | 2.335031e-07 |
| 3252 | YDR216W | YMR193W | 2.304392e-07 |
| 573 | YMR280C | YGR142W | 2.302145e-07 |
| 8350 | YMR280C | YLR267W | 2.280940e-07 |
| 9682 | YKL015W | YJL153C | 2.231007e-07 |
| 1751 | YKL015W | YBR054W | 2.224510e-07 |
| 9571 | YJR094C | YHR216W | 2.213469e-07 |
| 792 | YDL170W | YML123C | 2.193569e-07 |
| 793 | YBL103C | YML123C | 2.191418e-07 |
| 5360 | YKL062W | YMR229C | 2.178292e-07 |
| 5361 | YMR280C | YMR229C | 2.171349e-07 |
| 7671 | YBL103C | YAL062W | 2.164409e-07 |
| 2389 | YKL015W | YLR009W | 2.139381e-07 |
| 6342 | YER040W | YNL194C | 2.137419e-07 |
| 9879 | YDR043C | YHR087W | 2.093988e-07 |

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|------|---------|---------|--------------|
| 2391 | YOR032C | YLR009W | 2.083739e-07 |
| 5080 | YBL103C | YDL091C | 2.060509e-07 |
| 5243 | YER040W | YHL028W | 2.059984e-07 |
| 9880 | YER040W | YHR087W | 2.000043e-07 |
| 6492 | YOR032C | YLR276C | 1.947101e-07 |
| 2697 | YJR094C | YJL172W | 1.921034e-07 |
| 4196 | YDR216W | YNR064C | 1.920942e-07 |
| 797 | YJR094C | YML123C | 1.900796e-07 |
| 7194 | YOR032C | YDR361C | 1.849657e-07 |
| 5362 | YOR032C | YMR229C | 1.833765e-07 |
| 1397 | YJR094C | YAL054C | 1.831215e-07 |
| 4198 | YJR094C | YNR064C | 1.823237e-07 |
| 6047 | YDL170W | YDR043C | 1.816037e-07 |
| 1569 | YJR094C | YOR348C | 1.813984e-07 |
| 4470 | YDL170W | YKR056W | 1.795745e-07 |
| 8596 | YOR032C | YOL014W | 1.795322e-07 |
| 8094 | YOR032C | YOR056C | 1.788916e-07 |
| 4784 | YJR094C | YDL160C | 1.777701e-07 |
| 2441 | YER040W | YPL111W | 1.767883e-07 |
| 8856 | YKL112W | YDR380W | 1.766264e-07 |
| 2442 | YDL170W | YPL111W | 1.739175e-07 |
| 2443 | YJR094C | YPL111W | 1.731046e-07 |
| 1997 | YDR216W | YDR384C | 1.728369e-07 |
| 438 | YKL112W | YER040W | 1.726597e-07 |
| 8632 | YKL062W | YNR053C | 1.726104e-07 |
| 8096 | YGL254W | YOR056C | 1.716742e-07 |
| 1570 | YER040W | YOR348C | 1.713056e-07 |
| 3076 | YGL254W | YNR046W | 1.705496e-07 |
| 978 | YGL254W | YDR171W | 1.668875e-07 |
| 2066 | YGL254W | YER150W | 1.667044e-07 |
| 1572 | YKL112W | YOR348C | 1.609744e-07 |
| 8353 | YGL254W | YLR267W | 1.587609e-07 |
| 4072 | YKL062W | YJR148W | 1.583843e-07 |
| 2274 | YDR216W | YKR075C | 1.583642e-07 |
| 5467 | YBL103C | YOR206W | 1.540753e-07 |
| 1245 | YKL112W | YHR018C | 1.535501e-07 |
| 6344 | YMR280C | YNL194C | 1.528917e-07 |
| 3960 | YER040W | YER158C | 1.519059e-07 |
| 1998 | YJR094C | YDR384C | 1.507027e-07 |
| 9883 | YBL103C | YHR087W | 1.455193e-07 |
| 274 | YOR032C | YDR216W | 1.452130e-07 |
| 4792 | YKL015W | YDL160C | 1.438340e-07 |
| 2277 | YGL254W | YKR075C | 1.437970e-07 |
| 1246 | YDL170W | YHR018C | 1.433464e-07 |
| 1247 | YOR032C | YHR018C | 1.420782e-07 |

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|------|---------|---------|--------------|
| 5770 | YOR032C | YJL088W | 1.357260e-07 |
| 2397 | YGL254W | YLR009W | 1.356856e-07 |
| 8159 | YKL015W | YBL042C | 1.335370e-07 |
| 2398 | YJR094C | YLR009W | 1.326562e-07 |
| 6345 | YOR032C | YNL194C | 1.322515e-07 |
| 7053 | YDR216W | YPR002W | 1.279618e-07 |
| 9389 | YKL015W | YGL229C | 1.251679e-07 |
| 6500 | YJR094C | YLR276C | 1.237329e-07 |
| 8860 | YER040W | YDR380W | 1.235397e-07 |
| 3256 | YMR280C | YMR193W | 1.226089e-07 |
| 587 | YDR216W | YGR142W | 1.222716e-07 |
| 6346 | YDR216W | YNL194C | 1.216007e-07 |
| 278 | YDR043C | YDR216W | 1.180717e-07 |
| 5473 | YKL112W | YOR206W | 1.178267e-07 |
| 5775 | YJR094C | YJL088W | 1.144011e-07 |
| 5150 | YOR032C | YHR051W | 1.134171e-07 |
| 589 | YJR094C | YGR142W | 1.129812e-07 |
| 8636 | YKL112W | YNR053C | 1.105646e-07 |
| 5249 | YBL103C | YHL028W | 1.093626e-07 |
| 282 | YJR094C | YDR216W | 1.066920e-07 |
| 4082 | YKL015W | YJR148W | 1.055341e-07 |
| 1181 | YKL015W | YGR043C | 1.046240e-07 |
| 9578 | YDL170W | YHR216W | 1.034528e-07 |
| 8867 | YDL170W | YDR380W | 1.024931e-07 |
| 655 | YOR032C | YNL036W | 1.008842e-07 |
| 5781 | YMR280C | YJL088W | 9.798656e-08 |
| 5154 | YKL112W | YHR051W | 9.785475e-08 |
| 5782 | YGL254W | YJL088W | 9.710270e-08 |
| 7058 | YKL015W | YPR002W | 9.284758e-08 |
| 8791 | YOR032C | YLR258W | 9.224313e-08 |
| 594 | YKL015W | YGR142W | 9.173766e-08 |
| 3090 | YJR094C | YNR046W | 9.030254e-08 |
| 4478 | YBL103C | YKR056W | 8.809370e-08 |
| 985 | YJR094C | YDR171W | 8.737277e-08 |
| 657 | YBL103C | YNL036W | 8.660454e-08 |
| 3461 | YER040W | YLR174W | 8.590534e-08 |
| 4088 | YGL254W | YJR148W | 8.359196e-08 |
| 3261 | YER040W | YMR193W | 8.144738e-08 |
| 8870 | YBL103C | YDR380W | 7.782381e-08 |
| 7687 | YKL015W | YAL062W | 7.654164e-08 |
| 7688 | YOR032C | YAL062W | 7.389701e-08 |
| 9266 | YDR043C | YLR178C | 7.364270e-08 |
| 4481 | YOR032C | YKR056W | 7.055061e-08 |
| 4482 | YKL015W | YKR056W | 7.016066e-08 |
| 3098 | YKL015W | YNR046W | 6.992371e-08 |

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|------|---------|---------|--------------|
| 5481 | YDL170W | YOR206W | 6.966028e-08 |
| 3464 | YOR032C | YLR174W | 6.930614e-08 |
| 5482 | YER040W | YOR206W | 6.868510e-08 |
| 5090 | YJR094C | YDL091C | 6.839440e-08 |
| 3465 | YGL254W | YLR174W | 6.782377e-08 |
| 2285 | YJR094C | YKR075C | 6.752586e-08 |
| 8874 | YOR032C | YDR380W | 6.652638e-08 |
| 5666 | YDL170W | YIL155C | 6.637913e-08 |
| 9269 | YKL112W | YLR178C | 6.612156e-08 |
| 3645 | YDR043C | YDL018C | 6.604682e-08 |
| 5374 | YBL103C | YMR229C | 6.362157e-08 |
| 3779 | YJR094C | YIL136W | 6.252483e-08 |
| 9890 | YKL112W | YHR087W | 6.215972e-08 |
| 2072 | YDR043C | YER150W | 6.178454e-08 |
| 9891 | YJR094C | YHR087W | 6.159361e-08 |
| 5091 | YDR216W | YDL091C | 6.084416e-08 |
| 658 | YDL170W | YNL036W | 5.918942e-08 |
| 659 | YER040W | YNL036W | 5.891908e-08 |
| 1258 | YDR043C | YHR018C | 5.670279e-08 |
| 3469 | YKL015W | YLR174W | 5.463119e-08 |
| 5092 | YGL254W | YDL091C | 5.443634e-08 |
| 3470 | YKL112W | YLR174W | 5.378642e-08 |
| 2076 | YOR032C | YER150W | 4.948199e-08 |
| 8796 | YER040W | YLR258W | 4.891328e-08 |
| 1769 | YKL062W | YBR054W | 4.859406e-08 |
| 3980 | YJR094C | YER158C | 4.572064e-08 |
| 7694 | YJR094C | YAL062W | 4.496336e-08 |
| 8649 | YMR280C | YNR053C | 4.490586e-08 |
| 4095 | YDR216W | YJR148W | 4.453732e-08 |
| 7068 | YDR043C | YPR002W | 4.398260e-08 |
| 2291 | YKL015W | YKR075C | 4.288657e-08 |
| 4485 | YJR094C | YKR056W | 4.274261e-08 |
| 4398 | YJR094C | YPL265W | 4.263128e-08 |
| 3784 | YGL254W | YIL136W | 4.173601e-08 |
| 5678 | YJR094C | YIL155C | 4.062722e-08 |
| 7695 | YDR216W | YAL062W | 3.975500e-08 |
| 5792 | YKL015W | YJL088W | 3.912847e-08 |
| 5257 | YKL112W | YHL028W | 3.819907e-08 |
| 5679 | YER040W | YIL155C | 3.699628e-08 |
| 8171 | YKL062W | YBL042C | 3.641969e-08 |
| 1262 | YMR280C | YHR018C | 3.501455e-08 |
| 5165 | YER040W | YHR051W | 3.475488e-08 |
| 5493 | YKL015W | YOR206W | 3.316992e-08 |
| 5167 | YDL170W | YHR051W | 3.160903e-08 |
| 5258 | YDL170W | YHL028W | 3.132570e-08 |

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|------|---------|---------|--------------|
| 3274 | YDL170W | YMR193W | 3.127197e-08 |
| 5495 | YGL254W | YOR206W | 2.933707e-08 |
| 3275 | YBL103C | YMR193W | 2.901609e-08 |
| 3276 | YOR032C | YMR193W | 2.894428e-08 |
| 3983 | YGL254W | YER158C | 2.875559e-08 |
| 8177 | YDL170W | YBL042C | 2.751032e-08 |
| 8798 | YBL103C | YLR258W | 2.741625e-08 |
| 8178 | YBL103C | YBL042C | 2.737797e-08 |
| 5266 | YGL254W | YHL028W | 2.470341e-08 |
| 8181 | YGL254W | YBL042C | 2.465432e-08 |
| 6062 | YGL254W | YDR043C | 2.352904e-08 |
| 7081 | YKL062W | YPR002W | 2.265495e-08 |
| 5498 | YJR094C | YOR206W | 2.255399e-08 |
| 1268 | YKL015W | YHR018C | 2.214708e-08 |
| 9087 | YKL112W | YDL110C | 2.177746e-08 |
| 8893 | YKL015W | YDR380W | 2.176031e-08 |
| 2085 | YJR094C | YER150W | 2.169187e-08 |
| 5391 | YJR094C | YMR229C | 2.071793e-08 |
| 5392 | YGL254W | YMR229C | 2.065439e-08 |
| 5176 | YKL015W | YHR051W | 1.951626e-08 |
| 5177 | YDR216W | YHR051W | 1.936570e-08 |
| 9286 | YDR216W | YLR178C | 1.933329e-08 |
| 3988 | YDR216W | YER158C | 1.929950e-08 |
| 5179 | YBL103C | YHR051W | 1.898659e-08 |
| 1776 | YKL112W | YBR054W | 1.877532e-08 |
| 6366 | YKL112W | YNL194C | 1.860593e-08 |
| 9289 | YOR032C | YLR178C | 1.681573e-08 |
| 3490 | YJR094C | YLR174W | 1.640825e-08 |
| 7085 | YOR032C | YPR002W | 1.638367e-08 |
| 998 | YOR032C | YDR171W | 1.567563e-08 |
| 9088 | YJR094C | YDL110C | 1.554840e-08 |
| 1780 | YDR043C | YBR054W | 1.552947e-08 |
| 1276 | YDR216W | YHR018C | 1.531931e-08 |
| 3563 | YER040W | YER002W | 1.429458e-08 |
| 8895 | YGL254W | YDR380W | 1.421348e-08 |
| 8376 | YDR216W | YLR267W | 1.419710e-08 |
| 8966 | YKL112W | YLL034C | 1.384586e-08 |
| 6074 | YMR280C | YDR043C | 1.375462e-08 |
| 8896 | YDR216W | YDR380W | 1.361437e-08 |
| 5398 | YDR216W | YMR229C | 1.334220e-08 |
| 8898 | YJR094C | YDR380W | 1.329575e-08 |
| 8659 | YJR094C | YNR053C | 1.312783e-08 |
| 3662 | YKL112W | YDL018C | 1.307774e-08 |
| 8377 | YOR032C | YLR267W | 1.286995e-08 |
| 8967 | YOR032C | YLL034C | 1.281572e-08 |

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|------|---------|---------|--------------|
| 8192 | YER040W | YBL042C | 1.246717e-08 |
| 3564 | YKL112W | YER002W | 1.233222e-08 |
| 5187 | YGL254W | YHR051W | 1.223427e-08 |
| 8381 | YJR094C | YLR267W | 1.211546e-08 |
| 3663 | YER040W | YDL018C | 1.209428e-08 |
| 6585 | YKL015W | YLR438W | 1.195342e-08 |
| 475 | YDR216W | YER040W | 1.195278e-08 |
| 8662 | YOR032C | YNR053C | 1.144617e-08 |
| 3665 | YBL103C | YDL018C | 1.132389e-08 |
| 9291 | YGL254W | YLR178C | 1.124196e-08 |
| 6586 | YDR216W | YLR438W | 1.123959e-08 |
| 3567 | YOR032C | YER002W | 1.115111e-08 |
| 2092 | YKL112W | YER150W | 1.104225e-08 |
| 7092 | YGL254W | YPR002W | 1.094152e-08 |
| 8663 | YDL170W | YNR053C | 1.090977e-08 |
| 3667 | YKL062W | YDL018C | 1.083190e-08 |
| 8970 | YBL103C | YLL034C | 1.058461e-08 |
| 7093 | YJR094C | YPR002W | 1.004977e-08 |
| 3570 | YKL015W | YER002W | 9.790809e-09 |
| 5693 | YGL254W | YIL155C | 9.617025e-09 |
| 6588 | YGL254W | YLR438W | 9.403447e-09 |
| 3670 | YMR280C | YDL018C | 9.335947e-09 |
| 8387 | YKL015W | YLR267W | 8.984958e-09 |
| 8972 | YJR094C | YLL034C | 8.943581e-09 |
| 6591 | YOR032C | YLR438W | 8.605294e-09 |
| 692 | YKL015W | YNL036W | 8.431043e-09 |
| 2472 | YMR280C | YPL111W | 7.946891e-09 |
| 1791 | YOR032C | YBR054W | 7.832869e-09 |
| 480 | YGL254W | YER040W | 7.808352e-09 |
| 693 | YGL254W | YNL036W | 7.627300e-09 |
| 481 | YJR094C | YER040W | 7.611104e-09 |
| 5190 | YJR094C | YHR051W | 7.511666e-09 |
| 3288 | YJR094C | YMR193W | 7.378486e-09 |
| 8668 | YER040W | YNR053C | 7.309328e-09 |
| 5284 | YJR094C | YHL028W | 7.292478e-09 |
| 3289 | YKL015W | YMR193W | 7.229978e-09 |
| 8391 | YKL062W | YLR267W | 7.151841e-09 |
| 489 | YKL015W | YER040W | 6.583925e-09 |
| 2477 | YGL254W | YPL111W | 6.048505e-09 |
| 6380 | YBL103C | YNL194C | 5.999192e-09 |
| 6381 | YDR043C | YNL194C | 5.560139e-09 |
| 8978 | YKL015W | YLL034C | 5.409282e-09 |
| 696 | YJR094C | YNL036W | 5.273858e-09 |
| 3676 | YDL170W | YDL018C | 5.135293e-09 |
| 8672 | YGL254W | YNR053C | 4.714647e-09 |

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|------|---------|---------|--------------|
| 1294 | YGL254W | YHR018C | 4.640672e-09 |
| 2484 | YDR216W | YPL111W | 4.509132e-09 |
| 8983 | YER040W | YLL034C | 4.129122e-09 |
| 3683 | YKL015W | YDL018C | 4.087688e-09 |
| 6088 | YJR094C | YDR043C | 3.851574e-09 |
| 8986 | YDL170W | YLL034C | 3.750259e-09 |
| 6598 | YJR094C | YLR438W | 3.652877e-09 |
| 1297 | YJR094C | YHR018C | 3.601686e-09 |
| 3580 | YDL170W | YER002W | 3.519412e-09 |
| 2489 | YKL015W | YPL111W | 3.388154e-09 |
| 3581 | YBL103C | YER002W | 3.267304e-09 |
| 8681 | YBL103C | YNR053C | 2.937690e-09 |
| 2490 | YOR032C | YPL111W | 2.889436e-09 |
| 3689 | YJR094C | YDL018C | 2.758185e-09 |
| 3583 | YJR094C | YER002W | 2.697805e-09 |
| 3691 | YOR032C | YDL018C | 2.502677e-09 |
| 3692 | YDR216W | YDL018C | 2.498999e-09 |
| 6091 | YDR216W | YDR043C | 2.445018e-09 |
| 3589 | YDR216W | YER002W | 2.032706e-09 |
| 8690 | YKL015W | YNR053C | 1.967438e-09 |
| 3696 | YGL254W | YDL018C | 1.820362e-09 |
| 8993 | YDR216W | YLL034C | 1.675807e-09 |
| 8695 | YDR216W | YNR053C | 1.391757e-09 |
| 8996 | YGL254W | YLL034C | 1.344210e-09 |
| 6394 | YJR094C | YNL194C | 1.210824e-09 |
| 3595 | YGL254W | YER002W | 1.177156e-09 |
| 6395 | YGL254W | YNL194C | 1.158014e-09 |

[1] "network After:"

| | Regulator | TargetGene | prob |
|------|-----------|------------|--------------|
| 203 | YJR094C | YJR094C | 1.000000e+00 |
| 301 | YOR032C | YOR032C | 1.000000e+00 |
| 1602 | YDR216W | YDR216W | 1.000000e+00 |
| 2102 | YDL170W | YDL170W | 1.000000e+00 |
| 2202 | YKL062W | YKL062W | 1.000000e+00 |
| 2203 | YGL254W | YGL254W | 1.000000e+00 |
| 2301 | YKL015W | YKL015W | 1.000000e+00 |
| 2501 | YKL112W | YKL112W | 1.000000e+00 |
| 3401 | YMR280C | YMR280C | 1.000000e+00 |
| 3701 | YDR043C | YDR043C | 1.000000e+00 |
| 5702 | YER040W | YER040W | 1.000000e+00 |
| 6101 | YKL112W | YNL270C | 1.000000e+00 |
| 7601 | YDL170W | YCR010C | 1.000000e+00 |
| 8801 | YKL062W | YKR009C | 1.000000e+00 |
| 9801 | YDL170W | YJR110W | 1.000000e+00 |
| 9901 | YKL062W | YDR216W | 1.000000e+00 |

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|------|---------|---------|--------------|
| 2004 | YKL062W | YER150W | 1.000000e+00 |
| 3703 | YKL062W | YIL136W | 1.000000e+00 |
| 2903 | YKL062W | YMR169C | 1.000000e+00 |
| 7104 | YKL062W | YDR361C | 1.000000e+00 |
| 904 | YDR216W | YDR171W | 1.000000e+00 |
| 5303 | YER040W | YMR229C | 1.000000e+00 |
| 4903 | YBL103C | YLR327C | 1.000000e+00 |
| 7604 | YKL062W | YAL062W | 1.000000e+00 |
| 2005 | YKL015W | YER150W | 9.999999e-01 |
| 2305 | YDR043C | YLR009W | 9.999997e-01 |
| 1402 | YKL062W | YFL014W | 9.999968e-01 |
| 1002 | YDR043C | YCR021C | 9.999784e-01 |
| 9203 | YKL062W | YLR178C | 9.999588e-01 |
| 3503 | YDR043C | YER002W | 9.926295e-01 |
| 1603 | YER040W | YDL170W | 9.903681e-01 |
| 7004 | YBL103C | YPR002W | 9.882139e-01 |
| 605 | YMR280C | YNL036W | 9.870398e-01 |
| 9702 | YKL015W | YKL040C | 9.828064e-01 |
| 8405 | YDL170W | YHR029C | 9.759532e-01 |
| 1104 | YKL062W | YGR043C | 9.096228e-01 |
| 404 | YDL170W | YER040W | 8.727256e-01 |
| 2405 | YKL062W | YPL111W | 8.450150e-01 |
| 7005 | YER040W | YPR002W | 8.164570e-01 |
| 805 | YKL062W | YHR136C | 6.882579e-01 |
| 3005 | YKL062W | YNR046W | 6.295850e-01 |
| 2805 | YBL103C | YOR100C | 5.552321e-01 |
| 1508 | YDL170W | YOR348C | 5.286012e-01 |
| 3904 | YDR043C | YER158C | 5.123184e-01 |
| 1509 | YDR216W | YOR348C | 4.627022e-01 |
| 4505 | YKL062W | YCL064C | 4.302623e-01 |
| 3506 | YKL062W | YER002W | 4.202709e-01 |
| 3006 | YDR043C | YNR046W | 4.069155e-01 |
| 8906 | YDR043C | YLL034C | 3.694592e-01 |
| 4406 | YMR280C | YKR056W | 3.552051e-01 |
| 5207 | YKL062W | YHL028W | 3.319017e-01 |
| 8907 | YKL062W | YLL034C | 3.147426e-01 |
| 2406 | YKL112W | YPL111W | 3.118635e-01 |
| 6110 | YKL015W | YDR258C | 2.726643e-01 |
| 8408 | YER040W | YHR029C | 2.620775e-01 |
| 8409 | YKL112W | YHR029C | 2.182628e-01 |
| 9105 | YDR043C | YER067W | 2.008918e-01 |
| 7006 | YDL170W | YPR002W | 1.717569e-01 |
| 2707 | YDR043C | YPL012W | 1.621825e-01 |
| 8104 | YJR094C | YBL042C | 9.687050e-02 |
| 4204 | YMR280C | YGR067C | 9.326290e-02 |

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| 8706 | YKL062W | YLR258W | 8.575580e-02 |
| 7805 | YKL062W | YPL036W | 8.001430e-02 |
| 8506 | YKL062W | YOL014W | 7.639610e-02 |
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| 3207 | YKL062W | YMR193W | 5.076040e-02 |
| 2008 | YDL170W | YER150W | 3.848110e-02 |
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| 3407 | YDR043C | YLR174W | 2.925340e-02 |
| 5706 | YDL170W | YJL088W | 2.902040e-02 |
| 1512 | YKL062W | YOR348C | 2.571560e-02 |
| 9607 | YKL112W | YJL153C | 2.486470e-02 |
| 709 | YDR043C | YML123C | 2.458570e-02 |
| 5009 | YKL062W | YDL091C | 2.103520e-02 |
| 5407 | YKL062W | YOR206W | 2.060740e-02 |
| 922 | YKL062W | YDR171W | 1.930490e-02 |
| 7806 | YBL103C | YPL036W | 1.577170e-02 |
| 1513 | YKL015W | YOR348C | 1.477050e-02 |
| 1710 | YGL254W | YBR054W | 1.424450e-02 |
| 6706 | YDR043C | YKR009C | 1.127072e-02 |
| 4613 | YKL112W | YJL063C | 1.119170e-02 |
| 815 | YDR043C | YHR136C | 9.952100e-03 |
| 2503 | YDR043C | YOR388C | 8.822526e-03 |
| 9916 | YKL015W | YKL062W | 7.384918e-03 |
| 7807 | YOR032C | YPL036W | 7.080500e-03 |
| 2711 | YKL062W | YPL012W | 6.664478e-03 |
| 3512 | YMR280C | YER002W | 6.093500e-03 |
| 6012 | YKL112W | YDR043C | 5.848100e-03 |
| 1807 | YDR216W | YCR010C | 4.388878e-03 |
| 8108 | YKL112W | YBL042C | 4.276927e-03 |
| 1414 | YKL015W | YFL014W | 4.134512e-03 |
| 319 | YDR216W | YMR280C | 3.392673e-03 |
| 7808 | YDR043C | YPL036W | 3.352507e-03 |
| 6413 | YMR280C | YLR276C | 3.311332e-03 |
| 5905 | YKL015W | YNR028W | 2.699416e-03 |
| 4412 | YKL112W | YKR056W | 2.263679e-03 |
| 7809 | YKL112W | YPL036W | 2.186318e-03 |
| 2613 | YKL062W | YJL172W | 2.031746e-03 |
| 321 | YER040W | YMR280C | 1.715859e-03 |
| 9210 | YKL015W | YLR178C | 1.640806e-03 |
| 2809 | YMR280C | YOR100C | 1.564278e-03 |
| 2114 | YGL254W | YPL061W | 1.349289e-03 |
| 9714 | YKL112W | YKL040C | 1.288645e-03 |
| 5824 | YDR043C | YLL011W | 1.228833e-03 |

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| 4105 | YKL112W | YNR064C | 1.155329e-03 |
| 7612 | YKL112W | YAL062W | 1.143604e-03 |
| 7208 | YDR043C | YLL033W | 1.139963e-03 |
| 9924 | YDR216W | YKL062W | 1.136548e-03 |
| 2117 | YER040W | YPL061W | 1.097779e-03 |
| 9110 | YOR032C | YER067W | 9.938753e-04 |
| 5505 | YKL112W | YJR094C | 9.377215e-04 |
| 7615 | YER040W | YAL062W | 8.041847e-04 |
| 1311 | YDR216W | YAL054C | 7.240126e-04 |
| 3107 | YER040W | YJR110W | 7.085352e-04 |
| 1614 | YKL062W | YDL170W | 6.620358e-04 |
| 107 | YKL062W | YKL112W | 6.518338e-04 |
| 5314 | YKL112W | YMR229C | 6.153800e-04 |
| 9403 | YDR043C | YOR032C | 6.021894e-04 |
| 5827 | YKL062W | YLL011W | 5.800563e-04 |
| 1418 | YDL170W | YFL014W | 5.600695e-04 |
| 9823 | YKL015W | YHR087W | 4.882720e-04 |
| 326 | YDL170W | YMR280C | 4.740960e-04 |
| 8210 | YGL254W | YLR130C | 4.548084e-04 |
| 2909 | YKL015W | YMR169C | 4.510282e-04 |
| 2513 | YDL170W | YOR388C | 4.487671e-04 |
| 2719 | YMR280C | YPL012W | 3.749033e-04 |
| 2617 | YER040W | YJL172W | 3.361743e-04 |
| 2811 | YKL062W | YOR100C | 3.233403e-04 |
| 1422 | YDR216W | YFL014W | 3.179950e-04 |
| 8211 | YDR216W | YLR130C | 3.131830e-04 |
| 3916 | YKL015W | YER158C | 3.127803e-04 |
| 3917 | YOR032C | YER158C | 3.047235e-04 |
| 6207 | YBL103C | YKL071W | 2.745549e-04 |
| 7313 | YDL170W | YOR302W | 2.706648e-04 |
| 5509 | YDR043C | YJR094C | 2.677044e-04 |
| 5412 | YDR043C | YOR206W | 2.508847e-04 |
| 1315 | YGL254W | YAL054C | 2.484465e-04 |
| 7116 | YDR043C | YDR361C | 2.474675e-04 |
| 4208 | YDR216W | YGR067C | 2.437015e-04 |
| 8311 | YBL103C | YLR267W | 2.395245e-04 |
| 2024 | YER040W | YER150W | 2.334549e-04 |
| 3812 | YKL015W | YGR183C | 2.312097e-04 |
| 1022 | YER040W | YCR021C | 2.278207e-04 |
| 331 | YGL254W | YMR280C | 2.205116e-04 |
| 2722 | YOR032C | YPL012W | 2.181173e-04 |
| 4912 | YDR216W | YLR327C | 2.149646e-04 |
| 926 | YBL103C | YDR171W | 2.145629e-04 |
| 8215 | YMR280C | YLR130C | 2.124343e-04 |
| 2315 | YKL062W | YLR009W | 2.033173e-04 |

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| 9512 | YOR032C | YHR216W | 2.023385e-04 |
| 3813 | YKL062W | YGR183C | 1.950767e-04 |
| 9933 | YDR043C | YKL062W | 1.860922e-04 |
| 108 | YDR043C | YKL112W | 1.859648e-04 |
| 4913 | YER040W | YLR327C | 1.794421e-04 |
| 9116 | YBL103C | YER067W | 1.754331e-04 |
| 7714 | YKL112W | YDR523C | 1.746721e-04 |
| 6018 | YOR032C | YDR043C | 1.741403e-04 |
| 3114 | YBL103C | YJR110W | 1.700068e-04 |
| 4914 | YKL015W | YLR327C | 1.686509e-04 |
| 5833 | YGL254W | YLL011W | 1.669997e-04 |
| 6809 | YOR032C | YKL015W | 1.653053e-04 |
| 2517 | YKL062W | YOR388C | 1.648864e-04 |
| 6623 | YKL112W | YNL037C | 1.642704e-04 |
| 4010 | YOR032C | YJR148W | 1.637047e-04 |
| 6127 | YER040W | YDR258C | 1.633385e-04 |
| 9214 | YER040W | YLR178C | 1.601746e-04 |
| 2121 | YDL170W | YPL061W | 1.597378e-04 |
| 5514 | YER040W | YJR094C | 1.526310e-04 |
| 9617 | YDR043C | YJL153C | 1.517209e-04 |
| 4711 | YBL103C | YDL160C | 1.405944e-04 |
| 2519 | YMR280C | YOR388C | 1.405749e-04 |
| 6722 | YER040W | YKR009C | 1.376892e-04 |
| 5913 | YER040W | YNR028W | 1.372189e-04 |
| 3720 | YER040W | YIL136W | 1.328123e-04 |
| 9725 | YKL062W | YKL040C | 1.314229e-04 |
| 1435 | YDR043C | YFL014W | 1.260688e-04 |
| 8017 | YKL062W | YOR056C | 1.242641e-04 |
| 8018 | YDR043C | YOR056C | 1.239953e-04 |
| 333 | YKL015W | YMR280C | 1.222893e-04 |
| 9122 | YDR216W | YER067W | 1.168811e-04 |
| 5516 | YDL170W | YJR094C | 1.163116e-04 |
| 1027 | YBL103C | YCR021C | 1.161262e-04 |
| 2520 | YER040W | YOR388C | 1.146756e-04 |
| 1111 | YOR032C | YGR043C | 1.121684e-04 |
| 8619 | YDR043C | YNR053C | 1.118330e-04 |
| 4918 | YDL170W | YLR327C | 1.106170e-04 |
| 5517 | YOR032C | YJR094C | 1.099354e-04 |
| 3115 | YGL254W | YJR110W | 1.098570e-04 |
| 1926 | YKL112W | YDR384C | 1.079826e-04 |
| 9409 | YKL062W | YOR032C | 1.017373e-04 |
| 335 | YBL103C | YMR280C | 9.858481e-05 |
| 6726 | YDL170W | YKR009C | 9.620874e-05 |
| 9939 | YMR280C | YKL062W | 9.431196e-05 |
| 5614 | YKL015W | YIL155C | 9.354593e-05 |

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| 9729 | YOR032C | YKL040C | 9.145716e-05 |
| 1626 | YKL112W | YDL170W | 9.046739e-05 |
| 6906 | YMR280C | YGL009C | 8.908588e-05 |
| 5518 | YBL103C | YJR094C | 8.692344e-05 |
| 7718 | YKL062W | YDR523C | 8.603540e-05 |
| 6810 | YKL062W | YKL015W | 8.567141e-05 |
| 3317 | YKL015W | YGL254W | 8.378584e-05 |
| 9016 | YBL103C | YDL110C | 8.347189e-05 |
| 9831 | YKL062W | YHR087W | 8.229672e-05 |
| 6812 | YKL112W | YKL015W | 7.749511e-05 |
| 9732 | YER040W | YKL040C | 7.613779e-05 |
| 6627 | YMR280C | YNL037C | 7.514219e-05 |
| 2915 | YDL170W | YMR169C | 7.310313e-05 |
| 1448 | YJR094C | YFL014W | 7.215076e-05 |
| 7820 | YER040W | YPL036W | 7.199133e-05 |
| 9942 | YKL112W | YKL062W | 7.197676e-05 |
| 4623 | YMR280C | YJL063C | 7.114622e-05 |
| 9320 | YDR043C | YGL229C | 7.091607e-05 |
| 3820 | YMR280C | YGR183C | 6.982865e-05 |
| 7908 | YDR043C | YJL217W | 6.963837e-05 |
| 9321 | YMR280C | YGL229C | 6.960399e-05 |
| 1631 | YBL103C | YDL170W | 6.626979e-05 |
| 7410 | YKL015W | YNL270C | 6.502019e-05 |
| 6813 | YMR280C | YKL015W | 6.384302e-05 |
| 7722 | YER040W | YDR523C | 6.149331e-05 |
| 2629 | YDR043C | YJL172W | 6.110538e-05 |
| 1930 | YKL062W | YDR384C | 6.107044e-05 |
| 7411 | YMR280C | YNL270C | 6.048286e-05 |
| 6631 | YDR043C | YNL037C | 5.927016e-05 |
| 8221 | YKL062W | YLR130C | 5.818131e-05 |
| 7911 | YDR216W | YJL217W | 5.803088e-05 |
| 8312 | YDR043C | YLR267W | 5.777822e-05 |
| 5521 | YKL062W | YJR094C | 5.741613e-05 |
| 6734 | YBL103C | YKR009C | 5.716572e-05 |
| 7316 | YKL112W | YOR302W | 5.685453e-05 |
| 4812 | YKL112W | YIL037C | 5.673267e-05 |
| 5522 | YGL254W | YJR094C | 5.638254e-05 |
| 345 | YKL062W | YMR280C | 5.626418e-05 |
| 4217 | YKL112W | YGR067C | 5.606436e-05 |
| 3822 | YDR043C | YGR183C | 5.573155e-05 |
| 346 | YOR032C | YMR280C | 5.520617e-05 |
| 2918 | YMR280C | YMR169C | 5.451099e-05 |
| 9126 | YDL170W | YER067W | 5.374859e-05 |
| 415 | YDR043C | YER040W | 5.364057e-05 |
| 1036 | YDL170W | YCR021C | 5.325783e-05 |

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| 7317 | YBL103C | YOR302W | 5.302314e-05 |
| 4715 | YER040W | YDL160C | 5.273234e-05 |
| 9514 | YBL103C | YHR216W | 5.246698e-05 |
| 2532 | YBL103C | YOR388C | 5.039521e-05 |
| 217 | YKL015W | YDR216W | 4.954761e-05 |
| 7412 | YKL062W | YNL270C | 4.826213e-05 |
| 1454 | YMR280C | YFL014W | 4.780681e-05 |
| 9417 | YKL015W | YOR032C | 4.762414e-05 |
| 4814 | YKL062W | YIL037C | 4.713642e-05 |
| 1632 | YDR043C | YDL170W | 4.549196e-05 |
| 7913 | YJR094C | YJL217W | 4.457401e-05 |
| 6639 | YKL015W | YNL037C | 4.409747e-05 |
| 5416 | YMR280C | YOR206W | 4.353974e-05 |
| 7320 | YER040W | YOR302W | 4.310284e-05 |
| 828 | YMR280C | YHR136C | 4.264791e-05 |
| 4117 | YMR280C | YNR064C | 4.233747e-05 |
| 6137 | YDR216W | YDR258C | 4.107077e-05 |
| 1635 | YOR032C | YDL170W | 4.050507e-05 |
| 5716 | YKL062W | YJL088W | 3.835422e-05 |
| 7015 | YKL112W | YPR002W | 3.770909e-05 |
| 2533 | YJR094C | YOR388C | 3.752717e-05 |
| 1116 | YMR280C | YGR043C | 3.691210e-05 |
| 5719 | YER040W | YJL088W | 3.687478e-05 |
| 5112 | YMR280C | YHR051W | 3.681192e-05 |
| 218 | YDL170W | YDR216W | 3.627576e-05 |
| 9742 | YBL103C | YKL040C | 3.538803e-05 |
| 9131 | YER040W | YER067W | 3.517504e-05 |
| 9743 | YDL170W | YKL040C | 3.497766e-05 |
| 7828 | YDL170W | YPL036W | 3.488702e-05 |
| 8226 | YBL103C | YLR130C | 3.475313e-05 |
| 8432 | YBL103C | YHR029C | 3.468308e-05 |
| 9217 | YDL170W | YLR178C | 3.400787e-05 |
| 8520 | YMR280C | YOL014W | 3.384804e-05 |
| 6431 | YER040W | YLR276C | 3.326874e-05 |
| 7915 | YKL062W | YJL217W | 3.266112e-05 |
| 934 | YDL170W | YDR171W | 3.160488e-05 |
| 729 | YMR280C | YML123C | 3.133920e-05 |
| 5532 | YMR280C | YJR094C | 3.113875e-05 |
| 4118 | YBL103C | YNR064C | 3.087882e-05 |
| 7217 | YDL170W | YLL033W | 3.070819e-05 |
| 2217 | YDR043C | YKR075C | 3.051942e-05 |
| 8116 | YOR032C | YBL042C | 3.047466e-05 |
| 2218 | YMR280C | YKR075C | 3.011241e-05 |
| 9836 | YDL170W | YHR087W | 2.879614e-05 |
| 1821 | YKL062W | YCR010C | 2.857842e-05 |

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| 8228 | YDL170W | YLR130C | 2.846683e-05 |
| 9517 | YKL015W | YHR216W | 2.820889e-05 |
| 126 | YOR032C | YKL112W | 2.805498e-05 |
| 1936 | YER040W | YDR384C | 2.805228e-05 |
| 3729 | YDL170W | YIL136W | 2.799122e-05 |
| 5720 | YKL112W | YJL088W | 2.778042e-05 |
| 6433 | YKL062W | YLR276C | 2.734314e-05 |
| 5851 | YMR280C | YLL011W | 2.686023e-05 |
| 9423 | YMR280C | YOR032C | 2.677814e-05 |
| 6318 | YKL062W | YNL194C | 2.659118e-05 |
| 7919 | YMR280C | YJL217W | 2.647862e-05 |
| 7513 | YKL112W | YFR022W | 2.604530e-05 |
| 8230 | YKL112W | YLR130C | 2.603658e-05 |
| 7832 | YMR280C | YPL036W | 2.583816e-05 |
| 7129 | YMR280C | YDR361C | 2.548553e-05 |
| 5930 | YBL103C | YNR028W | 2.494533e-05 |
| 2134 | YBL103C | YPL061W | 2.493416e-05 |
| 5931 | YDL170W | YNR028W | 2.485983e-05 |
| 5932 | YKL112W | YNR028W | 2.471808e-05 |
| 5031 | YOR032C | YDL091C | 2.446864e-05 |
| 357 | YDR043C | YMR280C | 2.416850e-05 |
| 1824 | YER040W | YCR010C | 2.402678e-05 |
| 1328 | YDR043C | YAL054C | 2.399200e-05 |
| 128 | YDL170W | YKL112W | 2.377286e-05 |
| 6215 | YER040W | YKL071W | 2.315170e-05 |
| 223 | YER040W | YDR216W | 2.298749e-05 |
| 7922 | YOR032C | YJL217W | 2.297164e-05 |
| 8233 | YER040W | YLR130C | 2.288770e-05 |
| 833 | YGL254W | YHR136C | 2.279321e-05 |
| 9331 | YKL112W | YGL229C | 2.233116e-05 |
| 2928 | YER040W | YMR169C | 2.222405e-05 |
| 9950 | YOR032C | YKL062W | 2.159891e-05 |
| 1826 | YBL103C | YCR010C | 2.153017e-05 |
| 6021 | YKL062W | YDR043C | 2.129365e-05 |
| 5852 | YKL112W | YLL011W | 2.110915e-05 |
| 7735 | YDL170W | YDR523C | 2.080357e-05 |
| 7219 | YKL112W | YLL033W | 2.072730e-05 |
| 2138 | YKL112W | YPL061W | 2.063347e-05 |
| 733 | YKL062W | YML123C | 2.040661e-05 |
| 7736 | YDR043C | YDR523C | 1.995620e-05 |
| 834 | YKL015W | YHR136C | 1.980063e-05 |
| 9840 | YDR216W | YHR087W | 1.974842e-05 |
| 6523 | YKL112W | YLR438W | 1.946194e-05 |
| 7518 | YOR032C | YFR022W | 1.935727e-05 |
| 4529 | YJR094C | YCL064C | 1.919554e-05 |

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| 9424 | YBL103C | YOR032C | 1.881462e-05 |
| 2932 | YDR216W | YMR169C | 1.861922e-05 |
| 4822 | YDL170W | YIL037C | 1.845615e-05 |
| 7221 | YER040W | YLL033W | 1.842544e-05 |
| 3025 | YBL103C | YNR046W | 1.814905e-05 |
| 2324 | YMR280C | YLR009W | 1.811048e-05 |
| 6440 | YDR043C | YLR276C | 1.784551e-05 |
| 1830 | YGL254W | YCR010C | 1.780305e-05 |
| 1214 | YKL062W | YHR018C | 1.774828e-05 |
| 1339 | YER040W | YAL054C | 1.757101e-05 |
| 522 | YDR043C | YGR142W | 1.699126e-05 |
| 8040 | YKL112W | YOR056C | 1.689480e-05 |
| 2546 | YKL112W | YOR388C | 1.669787e-05 |
| 2325 | YDL170W | YLR009W | 1.659497e-05 |
| 4720 | YDR043C | YDL160C | 1.653961e-05 |
| 2834 | YKL112W | YOR100C | 1.603619e-05 |
| 2547 | YDR216W | YOR388C | 1.600462e-05 |
| 2229 | YKL112W | YKR075C | 1.599917e-05 |
| 7628 | YGL254W | YAL062W | 1.597608e-05 |
| 6745 | YMR280C | YKR009C | 1.585847e-05 |
| 4721 | YDL170W | YDL160C | 1.577741e-05 |
| 5538 | YDR216W | YJR094C | 1.554942e-05 |
| 6145 | YMR280C | YDR258C | 1.544585e-05 |
| 4315 | YBL103C | YPL265W | 1.533936e-05 |
| 9021 | YKL062W | YDL110C | 1.526807e-05 |
| 5858 | YDL170W | YLL011W | 1.507655e-05 |
| 4232 | YKL062W | YGR067C | 1.502316e-05 |
| 7838 | YKL015W | YPL036W | 1.502199e-05 |
| 6648 | YBL103C | YNL037C | 1.477513e-05 |
| 1832 | YKL112W | YCR010C | 1.459846e-05 |
| 9425 | YKL112W | YOR032C | 1.447197e-05 |
| 7428 | YDR043C | YNL270C | 1.433132e-05 |
| 3130 | YKL112W | YJR110W | 1.402890e-05 |
| 2838 | YER040W | YOR100C | 1.382148e-05 |
| 1467 | YBL103C | YFL014W | 1.368202e-05 |
| 3836 | YKL112W | YGR183C | 1.352707e-05 |
| 4427 | YDR216W | YKR056W | 1.341729e-05 |
| 1124 | YDL170W | YGR043C | 1.301385e-05 |
| 2230 | YER040W | YKR075C | 1.299394e-05 |
| 6932 | YKL062W | YGL009C | 1.289146e-05 |
| 9336 | YDR216W | YGL229C | 1.248088e-05 |
| 6149 | YKL062W | YDR258C | 1.215705e-05 |
| 7227 | YOR032C | YLL033W | 1.201057e-05 |
| 1343 | YDL170W | YAL054C | 1.196407e-05 |
| 4936 | YGL254W | YLR327C | 1.194683e-05 |

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| 6444 | YDL170W | YLR276C | 1.164164e-05 |
| 2333 | YBL103C | YLR009W | 1.159344e-05 |
| 7927 | YDL170W | YJL217W | 1.140154e-05 |
| 6747 | YKL112W | YKR009C | 1.134916e-05 |
| 1471 | YKL112W | YFL014W | 1.127983e-05 |
| 2941 | YBL103C | YMR169C | 1.098467e-05 |
| 9144 | YKL062W | YER067W | 1.097955e-05 |
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| 9338 | YBL103C | YGL229C | 1.082496e-05 |
| 7231 | YBL103C | YLL033W | 1.076115e-05 |
| 4130 | YDL170W | YNR064C | 1.073972e-05 |
| 9524 | YDR043C | YHR216W | 1.045144e-05 |
| 7929 | YER040W | YJL217W | 1.039800e-05 |
| 2231 | YKL062W | YKR075C | 1.039026e-05 |
| 525 | YER040W | YGR142W | 1.037287e-05 |
| 228 | YBL103C | YDR216W | 1.024234e-05 |
| 6224 | YOR032C | YKL071W | 1.019095e-05 |
| 4017 | YKL112W | YJR148W | 1.003964e-05 |
| 2750 | YBL103C | YPL012W | 9.716072e-06 |
| 3735 | YKL112W | YIL136W | 9.671371e-06 |
| 1841 | YKL015W | YCR010C | 9.255886e-06 |
| 9339 | YKL062W | YGL229C | 9.223619e-06 |
| 939 | YKL015W | YDR171W | 9.164611e-06 |
| 3220 | YDR043C | YMR193W | 8.846968e-06 |
| 2650 | YDL170W | YJL172W | 8.765911e-06 |
| 8050 | YMR280C | YOR056C | 8.730850e-06 |
| 4942 | YKL112W | YLR327C | 8.719970e-06 |
| 4133 | YKL015W | YNR064C | 8.676632e-06 |
| 2944 | YDR043C | YMR169C | 8.666203e-06 |
| 6227 | YDL170W | YKL071W | 8.418289e-06 |
| 2652 | YKL112W | YJL172W | 8.344594e-06 |
| 6530 | YKL062W | YLR438W | 8.248821e-06 |
| 9631 | YMR280C | YJL153C | 8.221192e-06 |
| 6321 | YKL015W | YNL194C | 8.092109e-06 |
| 1127 | YBL103C | YGR043C | 7.981064e-06 |
| 6830 | YDR043C | YKL015W | 7.920131e-06 |
| 2842 | YOR032C | YOR100C | 7.858714e-06 |
| 2560 | YOR032C | YOR388C | 7.775450e-06 |
| 5039 | YMR280C | YDL091C | 7.742857e-06 |
| 2563 | YGL254W | YOR388C | 7.673306e-06 |
| 3737 | YKL015W | YIL136W | 7.634000e-06 |
| 141 | YER040W | YKL112W | 7.585626e-06 |
| 4321 | YMR280C | YPL265W | 7.562203e-06 |
| 6449 | YDR216W | YLR276C | 7.544046e-06 |
| 4826 | YDR043C | YIL037C | 7.505486e-06 |

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| 7932 | YGL254W | YJL217W | 7.493570e-06 |
| 3738 | YOR032C | YIL136W | 7.300849e-06 |
| 9632 | YER040W | YJL153C | 7.289606e-06 |
| 9760 | YDR216W | YKL040C | 7.271380e-06 |
| 2947 | YOR032C | YMR169C | 7.011217e-06 |
| 9633 | YKL062W | YJL153C | 6.932814e-06 |
| 2654 | YMR280C | YJL172W | 6.897514e-06 |
| 5040 | YKL112W | YDL091C | 6.815323e-06 |
| 7530 | YMR280C | YFR022W | 6.623200e-06 |
| 4637 | YKL062W | YJL063C | 6.380821e-06 |
| 7441 | YDL170W | YNL270C | 6.323033e-06 |
| 8819 | YKL062W | YDR380W | 6.252150e-06 |
| 3338 | YKL062W | YGL254W | 6.230039e-06 |
| 4434 | YKL062W | YKR056W | 6.177072e-06 |
| 2846 | YDL170W | YOR100C | 6.089676e-06 |
| 8727 | YKL015W | YLR258W | 6.082714e-06 |
| 4138 | YER040W | YNR064C | 5.784629e-06 |
| 6833 | YDL170W | YKL015W | 5.579904e-06 |
| 8323 | YKL112W | YLR267W | 5.497778e-06 |
| 4540 | YDL170W | YCL064C | 5.435528e-06 |
| 6942 | YDR043C | YGL009C | 5.416631e-06 |
| 7937 | YBL103C | YJL217W | 5.410236e-06 |
| 7442 | YDR216W | YNL270C | 5.205863e-06 |
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| 5549 | YKL015W | YJR094C | 4.750102e-06 |
| 5943 | YGL254W | YNR028W | 4.728916e-06 |
| 9025 | YOR032C | YDL110C | 4.665576e-06 |
| 4641 | YDL170W | YJL063C | 4.660066e-06 |
| 7144 | YKL112W | YDR361C | 4.628863e-06 |
| 3932 | YKL062W | YER158C | 4.620258e-06 |
| 8824 | YDR043C | YDR380W | 4.581335e-06 |
| 2426 | YDR043C | YPL111W | 4.570775e-06 |
| 5729 | YDR216W | YJL088W | 4.563106e-06 |
| 4249 | YER040W | YGR067C | 4.538197e-06 |
| 6454 | YKL112W | YLR276C | 4.525177e-06 |
| 4544 | YDR043C | YCL064C | 4.335303e-06 |
| 7145 | YER040W | YDR361C | 4.291178e-06 |
| 377 | YKL112W | YMR280C | 4.281128e-06 |
| 3225 | YGL254W | YMR193W | 4.210543e-06 |
| 7942 | YKL015W | YJL217W | 4.155309e-06 |
| 5047 | YDR043C | YDL091C | 4.129784e-06 |
| 9158 | YKL112W | YER067W | 4.089677e-06 |
| 3742 | YBL103C | YIL136W | 4.006699e-06 |

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| 6167 | YDR043C | YDR258C | 3.994869e-06 |
| 1065 | YMR280C | YCR021C | 3.968059e-06 |
| 4645 | YDR216W | YJL063C | 3.884346e-06 |
| 1066 | YKL112W | YCR021C | 3.843331e-06 |
| 3346 | YDL170W | YGL254W | 3.842424e-06 |
| 5870 | YER040W | YLL011W | 3.831991e-06 |
| 3347 | YDR043C | YGL254W | 3.819941e-06 |
| 9160 | YKL015W | YER067W | 3.814344e-06 |
| 7943 | YKL112W | YJL217W | 3.784805e-06 |
| 3348 | YER040W | YGL254W | 3.779341e-06 |
| 9162 | YGL254W | YER067W | 3.775882e-06 |
| 4546 | YER040W | YCL064C | 3.749530e-06 |
| 2851 | YDR216W | YOR100C | 3.747063e-06 |
| 6025 | YKL015W | YDR043C | 3.733617e-06 |
| 5871 | YKL015W | YLL011W | 3.701246e-06 |
| 3421 | YDR216W | YLR174W | 3.687687e-06 |
| 7537 | YER040W | YFR022W | 3.684195e-06 |
| 4251 | YDL170W | YGR067C | 3.660468e-06 |
| 7765 | YMR280C | YDR523C | 3.576189e-06 |
| 7538 | YBL103C | YFR022W | 3.521667e-06 |
| 9352 | YER040W | YGL229C | 3.488473e-06 |
| 6662 | YDR216W | YNL037C | 3.466172e-06 |
| 1477 | YOR032C | YFL014W | 3.462118e-06 |
| 3422 | YMR280C | YLR174W | 3.402917e-06 |
| 6234 | YDR043C | YKL071W | 3.395999e-06 |
| 4739 | YDR216W | YDL160C | 3.382019e-06 |
| 7447 | YBL103C | YNL270C | 3.361308e-06 |
| 5219 | YDR043C | YHL028W | 3.354458e-06 |
| 7448 | YER040W | YNL270C | 3.335423e-06 |
| 4331 | YKL112W | YPL265W | 3.320012e-06 |
| 4333 | YER040W | YPL265W | 3.250735e-06 |
| 4965 | YKL062W | YLR327C | 3.208970e-06 |
| 6665 | YDL170W | YNL037C | 3.141530e-06 |
| 3041 | YDL170W | YNR046W | 3.120892e-06 |
| 9444 | YER040W | YOR032C | 3.065905e-06 |
| 5124 | YKL062W | YHR051W | 3.065417e-06 |
| 4742 | YKL112W | YDL160C | 3.042818e-06 |
| 2658 | YBL103C | YJL172W | 2.997725e-06 |
| 4654 | YBL103C | YJL063C | 2.977507e-06 |
| 9535 | YDR216W | YHR216W | 2.959753e-06 |
| 9026 | YDR043C | YDL110C | 2.928778e-06 |
| 1534 | YBL103C | YOR348C | 2.927453e-06 |
| 4655 | YGL254W | YJL063C | 2.856963e-06 |
| 8122 | YDR043C | YBL042C | 2.835073e-06 |
| 380 | YJR094C | YMR280C | 2.833007e-06 |

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| 7770 | YDR216W | YDR523C | 2.803375e-06 |
| 9028 | YDL170W | YDL110C | 2.757057e-06 |
| 1355 | YKL112W | YAL054C | 2.744895e-06 |
| 6947 | YKL112W | YGL009C | 2.743455e-06 |
| 9641 | YJR094C | YJL153C | 2.740551e-06 |
| 149 | YGL254W | YKL112W | 2.727368e-06 |
| 7342 | YMR280C | YOR302W | 2.700377e-06 |
| 3869 | YOR032C | YGR183C | 2.659605e-06 |
| 8735 | YMR280C | YLR258W | 2.656563e-06 |
| 2578 | YKL015W | YOR388C | 2.655979e-06 |
| 9773 | YDR043C | YKL040C | 2.650948e-06 |
| 6458 | YGL254W | YLR276C | 2.624911e-06 |
| 9537 | YKL112W | YHR216W | 2.618341e-06 |
| 418 | YMR280C | YER040W | 2.603506e-06 |
| 7771 | YOR032C | YDR523C | 2.569077e-06 |
| 3351 | YMR280C | YGL254W | 2.537092e-06 |
| 9539 | YGL254W | YHR216W | 2.521926e-06 |
| 8550 | YER040W | YOL014W | 2.459148e-06 |
| 2861 | YDR043C | YOR100C | 2.457407e-06 |
| 9971 | YJR094C | YKL062W | 2.426860e-06 |
| 1071 | YKL062W | YCR021C | 2.416800e-06 |
| 1072 | YGL254W | YCR021C | 2.415506e-06 |
| 753 | YDR216W | YML123C | 2.412266e-06 |
| 1536 | YMR280C | YOR348C | 2.397289e-06 |
| 6843 | YER040W | YKL015W | 2.388349e-06 |
| 621 | YDR216W | YNL036W | 2.387436e-06 |
| 1482 | YER040W | YFL014W | 2.376735e-06 |
| 4261 | YOR032C | YGR067C | 2.365293e-06 |
| 7453 | YOR032C | YNL270C | 2.355988e-06 |
| 8329 | YDL170W | YLR267W | 2.345593e-06 |
| 539 | YKL112W | YGR142W | 2.332661e-06 |
| 9974 | YBL103C | YKL062W | 2.328548e-06 |
| 3149 | YDR043C | YJR110W | 2.292513e-06 |
| 947 | YER040W | YDR171W | 2.264645e-06 |
| 8737 | YDR216W | YLR258W | 2.235055e-06 |
| 948 | YDR043C | YDR171W | 2.206772e-06 |
| 9451 | YGL254W | YOR032C | 2.190747e-06 |
| 1483 | YGL254W | YFL014W | 2.188471e-06 |
| 7251 | YJR094C | YLL033W | 2.187865e-06 |
| 7772 | YBL103C | YDR523C | 2.181965e-06 |
| 4341 | YGL254W | YPL265W | 2.180645e-06 |
| 4036 | YMR280C | YJR148W | 2.170412e-06 |
| 7157 | YBL103C | YDR361C | 2.162694e-06 |
| 2163 | YKL015W | YPL061W | 2.158359e-06 |
| 150 | YBL103C | YKL112W | 2.157105e-06 |

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| 3045 | YMR280C | YNR046W | 2.157020e-06 |
| 4972 | YMR280C | YLR327C | 2.125996e-06 |
| 4660 | YDR043C | YJL063C | 2.122301e-06 |
| 6538 | YBL103C | YLR438W | 2.069954e-06 |
| 5958 | YDR216W | YNR028W | 2.053595e-06 |
| 1138 | YDR043C | YGR043C | 2.052446e-06 |
| 3425 | YDL170W | YLR174W | 2.008937e-06 |
| 7862 | YGL254W | YPL036W | 1.993109e-06 |
| 9646 | YDL170W | YJL153C | 1.977620e-06 |
| 1966 | YDL170W | YDR384C | 1.969089e-06 |
| 544 | YDL170W | YGR142W | 1.894895e-06 |
| 860 | YOR032C | YHR136C | 1.893873e-06 |
| 243 | YKL112W | YDR216W | 1.849844e-06 |
| 9648 | YGL254W | YJL153C | 1.810807e-06 |
| 4444 | YDR043C | YKR056W | 1.807817e-06 |
| 1967 | YMR280C | YDR384C | 1.790257e-06 |
| 7253 | YMR280C | YLL033W | 1.787734e-06 |
| 8065 | YJR094C | YOR056C | 1.781800e-06 |
| 3936 | YBL103C | YER158C | 1.778938e-06 |
| 755 | YGL254W | YML123C | 1.770274e-06 |
| 4267 | YDR043C | YGR067C | 1.766114e-06 |
| 6244 | YDR216W | YKL071W | 1.753050e-06 |
| 2775 | YKL015W | YPL012W | 1.751222e-06 |
| 3937 | YKL112W | YER158C | 1.749050e-06 |
| 624 | YKL062W | YNL036W | 1.710514e-06 |
| 4344 | YKL015W | YPL265W | 1.667861e-06 |
| 1540 | YDR043C | YOR348C | 1.657474e-06 |
| 4559 | YKL112W | YCL064C | 1.648619e-06 |
| 5630 | YDR216W | YIL155C | 1.634800e-06 |
| 8462 | YKL062W | YHR029C | 1.629413e-06 |
| 7551 | YDR043C | YFR022W | 1.615094e-06 |
| 8557 | YKL112W | YOL014W | 1.610283e-06 |
| 8464 | YGL254W | YHR029C | 1.604953e-06 |
| 9362 | YOR032C | YGL229C | 1.603476e-06 |
| 1362 | YKL062W | YAL054C | 1.593880e-06 |
| 6171 | YKL112W | YDR258C | 1.585309e-06 |
| 9035 | YDR216W | YDL110C | 1.579954e-06 |
| 2170 | YDR043C | YPL061W | 1.563278e-06 |
| 6245 | YKL062W | YKL071W | 1.549785e-06 |
| 9175 | YMR280C | YER067W | 1.477988e-06 |
| 1082 | YOR032C | YCR021C | 1.477241e-06 |
| 3875 | YER040W | YGR183C | 1.442289e-06 |
| 5059 | YKL015W | YDL091C | 1.437434e-06 |
| 5632 | YKL062W | YIL155C | 1.433407e-06 |
| 2970 | YKL112W | YMR169C | 1.428194e-06 |

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| 7463 | YGL254W | YNL270C | 1.426510e-06 |
| 864 | YDR216W | YHR136C | 1.411803e-06 |
| 5060 | YDL170W | YDL091C | 1.406422e-06 |
| 4667 | YER040W | YJL063C | 1.389297e-06 |
| 7554 | YDL170W | YFR022W | 1.388916e-06 |
| 7776 | YKL015W | YDR523C | 1.370463e-06 |
| 1364 | YBL103C | YAL054C | 1.346004e-06 |
| 8072 | YER040W | YOR056C | 1.344296e-06 |
| 4148 | YDR043C | YNR064C | 1.342349e-06 |
| 2250 | YDL170W | YKR075C | 1.324519e-06 |
| 1736 | YDL170W | YBR054W | 1.313490e-06 |
| 2780 | YKL112W | YPL012W | 1.298412e-06 |
| 2362 | YKL112W | YLR009W | 1.291328e-06 |
| 4346 | YDR216W | YPL265W | 1.287961e-06 |
| 548 | YKL062W | YGR142W | 1.281227e-06 |
| 9466 | YJR094C | YOR032C | 1.276102e-06 |
| 9467 | YDL170W | YOR032C | 1.269964e-06 |
| 9546 | YER040W | YHR216W | 1.264038e-06 |
| 3357 | YBL103C | YGL254W | 1.263555e-06 |
| 9547 | YMR280C | YHR216W | 1.242194e-06 |
| 4561 | YBL103C | YCL064C | 1.241591e-06 |
| 4981 | YDR043C | YLR327C | 1.240844e-06 |
| 5228 | YKL015W | YHL028W | 1.239132e-06 |
| 1085 | YDR216W | YCR021C | 1.237335e-06 |
| 9779 | YJR094C | YKL040C | 1.230766e-06 |
| 2363 | YER040W | YLR009W | 1.229627e-06 |
| 549 | YOR032C | YGR142W | 1.216262e-06 |
| 761 | YKL015W | YML123C | 1.201315e-06 |
| 6680 | YKL062W | YNL037C | 1.199350e-06 |
| 6248 | YJR094C | YKL071W | 1.176498e-06 |
| 2676 | YOR032C | YJL172W | 1.164790e-06 |
| 1972 | YDR043C | YDR384C | 1.148392e-06 |
| 4448 | YER040W | YKR056W | 1.141432e-06 |
| 9233 | YMR280C | YLR178C | 1.132936e-06 |
| 1369 | YOR032C | YAL054C | 1.124635e-06 |
| 7363 | YGL254W | YOR302W | 1.118812e-06 |
| 9863 | YMR280C | YHR087W | 1.116292e-06 |
| 1144 | YKL112W | YGR043C | 1.112887e-06 |
| 6682 | YER040W | YNL037C | 1.111894e-06 |
| 2173 | YKL062W | YPL061W | 1.101458e-06 |
| 4348 | YDL170W | YPL265W | 1.094165e-06 |
| 4984 | YOR032C | YLR327C | 1.069947e-06 |
| 3364 | YOR032C | YGL254W | 1.048031e-06 |
| 1672 | YMR280C | YDL170W | 1.041926e-06 |
| 9039 | YMR280C | YDL110C | 1.041197e-06 |

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| 6542 | YER040W | YLR438W | 1.040094e-06 |
| 9982 | YER040W | YKL062W | 1.034413e-06 |
| 9983 | YDL170W | YKL062W | 1.032724e-06 |
| 2878 | YKL015W | YOR100C | 1.031000e-06 |
| 1868 | YJR094C | YCR010C | 1.030673e-06 |
| 956 | YMR280C | YDR171W | 1.029089e-06 |
| 1550 | YGL254W | YOR348C | 1.027904e-06 |
| 9783 | YMR280C | YKL040C | 1.015636e-06 |
| 2684 | YGL254W | YJL172W | 1.008334e-06 |
| 9182 | YJR094C | YER067W | 9.999383e-07 |
| 5134 | YDR043C | YHR051W | 9.971306e-07 |
| 3053 | YER040W | YNR046W | 9.909783e-07 |
| 3753 | YDR216W | YIL136W | 9.857975e-07 |
| 7650 | YMR280C | YAL062W | 9.848851e-07 |
| 1145 | YDR216W | YGR043C | 9.804780e-07 |
| 8470 | YDR043C | YHR029C | 9.783838e-07 |
| 869 | YJR094C | YHR136C | 9.761009e-07 |
| 2685 | YKL015W | YJL172W | 9.650616e-07 |
| 5880 | YBL103C | YLL011W | 9.559111e-07 |
| 7165 | YGL254W | YDR361C | 9.317072e-07 |
| 3754 | YMR280C | YIL136W | 9.135168e-07 |
| 2177 | YMR280C | YPL061W | 8.869984e-07 |
| 630 | YKL112W | YNL036W | 8.823280e-07 |
| 3241 | YKL112W | YMR193W | 8.810514e-07 |
| 5639 | YKL112W | YIL155C | 8.776311e-07 |
| 7166 | YDL170W | YDR361C | 8.761235e-07 |
| 8472 | YMR280C | YHR029C | 8.759649e-07 |
| 7167 | YKL015W | YDR361C | 8.682706e-07 |
| 7365 | YDR043C | YOR302W | 8.664523e-07 |
| 5973 | YMR280C | YNR028W | 8.639333e-07 |
| 2431 | YBL103C | YPL111W | 8.596605e-07 |
| 4991 | YJR094C | YLR327C | 8.580287e-07 |
| 8268 | YKL015W | YLR130C | 8.561111e-07 |
| 6255 | YKL112W | YKL071W | 8.486958e-07 |
| 4856 | YKL015W | YIL037C | 8.468379e-07 |
| 7561 | YKL062W | YFR022W | 8.416769e-07 |
| 9985 | YGL254W | YKL062W | 8.364092e-07 |
| 6256 | YGL254W | YKL071W | 8.352567e-07 |
| 4045 | YER040W | YJR148W | 8.338371e-07 |
| 6961 | YER040W | YGL009C | 8.316683e-07 |
| 7260 | YGL254W | YLL033W | 8.290746e-07 |
| 9661 | YBL103C | YJL153C | 8.286573e-07 |
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| 9043 | YGL254W | YDL110C | 8.165860e-07 |

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| 5975 | YDR043C | YNR028W | 7.923494e-07 |
| 2786 | YDL170W | YPL012W | 7.880993e-07 |
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| 3947 | YMR280C | YER158C | 7.858503e-07 |
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| 1149 | YER040W | YGR043C | 7.764863e-07 |
| 2787 | YDR216W | YPL012W | 7.691461e-07 |
| 9477 | YDR216W | YOR032C | 7.679790e-07 |
| 2788 | YER040W | YPL012W | 7.669801e-07 |
| 4279 | YGL254W | YGR067C | 7.661517e-07 |
| 4047 | YDL170W | YJR148W | 7.489216e-07 |
| 7883 | YDR216W | YPL036W | 7.387493e-07 |
| 169 | YDR216W | YKL112W | 7.366588e-07 |
| 5642 | YMR280C | YIL155C | 7.361374e-07 |
| 6965 | YJR094C | YGL009C | 7.361006e-07 |
| 9557 | YKL062W | YHR216W | 7.351072e-07 |
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| 3884 | YDL170W | YGR183C | 7.305360e-07 |
| 1151 | YGL254W | YGR043C | 7.266207e-07 |
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| 6871 | YBL103C | YKL015W | 7.002450e-07 |
| 6264 | YMR280C | YKL071W | 6.904484e-07 |
| 3376 | YKL112W | YGL254W | 6.767052e-07 |
| 1871 | YDR043C | YCR010C | 6.712263e-07 |
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| 1680 | YGL254W | YDL170W | 6.693954e-07 |
| 7373 | YKL062W | YOR302W | 6.677960e-07 |
| 8077 | YDL170W | YOR056C | 6.658879e-07 |
| 4160 | YOR032C | YNR064C | 6.650012e-07 |
| 2186 | YOR032C | YPL061W | 6.625361e-07 |
| 3886 | YBL103C | YGR183C | 6.597691e-07 |
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| 170 | YKL015W | YKL112W | 6.432367e-07 |
| 8567 | YGL254W | YOL014W | 6.424376e-07 |
| 171 | YMR280C | YKL112W | 6.413236e-07 |
| 1681 | YJR094C | YDL170W | 6.360728e-07 |
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| 5235 | YMR280C | YHL028W | 5.907707e-07 |
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| 8141 | YDR216W | YBL042C | 5.714690e-07 |
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| 5071 | YER040W | YDL091C | 5.683241e-07 |
| 1385 | YKL015W | YAL054C | 5.678535e-07 |
| 8078 | YDR216W | YOR056C | 5.630600e-07 |
| 8573 | YDR043C | YOL014W | 5.625008e-07 |
| 4865 | YBL103C | YIL037C | 5.614932e-07 |
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| 881 | YKL112W | YHR136C | 5.596740e-07 |
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| 4867 | YDR216W | YIL037C | 5.297112e-07 |
| 6277 | YKL015W | YKL071W | 5.276529e-07 |
| 1743 | YDR216W | YBR054W | 5.238594e-07 |
| 7383 | YDR216W | YOR302W | 5.237570e-07 |
| 8483 | YKL015W | YHR029C | 5.236999e-07 |
| 1685 | YDR216W | YDL170W | 5.192202e-07 |
| 5981 | YKL062W | YNR028W | 5.162115e-07 |
| 8575 | YJR094C | YOL014W | 5.118661e-07 |
| 3888 | YDR216W | YGR183C | 5.107006e-07 |
| 6980 | YDR216W | YGL009C | 5.106374e-07 |
| 5236 | YOR032C | YHL028W | 5.081974e-07 |
| 3180 | YOR032C | YJR110W | 5.080778e-07 |
| 8143 | YMR280C | YBL042C | 5.073792e-07 |
| 8484 | YJR094C | YHR029C | 5.034021e-07 |
| 884 | YER040W | YHR136C | 5.021893e-07 |
| 3181 | YMR280C | YJR110W | 4.998641e-07 |
| 6982 | YDL170W | YGL009C | 4.970752e-07 |

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| 7488 | YJR094C | YNL270C | 4.962869e-07 |
| 964 | YKL112W | YDR171W | 4.947203e-07 |
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| 431 | YKL062W | YER040W | 4.895102e-07 |
| 8280 | YOR032C | YLR130C | 4.781167e-07 |
| 4767 | YMR280C | YDL160C | 4.769419e-07 |
| 6787 | YDR216W | YKR009C | 4.766632e-07 |
| 7889 | YJR094C | YPL036W | 4.745089e-07 |
| 8751 | YKL112W | YLR258W | 4.740989e-07 |
| 5882 | YOR032C | YLL011W | 4.713644e-07 |
| 2260 | YBL103C | YKR075C | 4.684034e-07 |
| 6788 | YKL015W | YKR009C | 4.643860e-07 |
| 780 | YKL112W | YML123C | 4.601309e-07 |
| 6882 | YGL254W | YKL015W | 4.552744e-07 |
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| 8841 | YMR280C | YDR380W | 4.485931e-07 |
| 781 | YOR032C | YML123C | 4.472986e-07 |
| 2261 | YOR032C | YKR075C | 4.466655e-07 |
| 3761 | YDR043C | YIL136W | 4.448584e-07 |
| 5883 | YDR216W | YLL011W | 4.434138e-07 |
| 7793 | YGL254W | YDR523C | 4.390647e-07 |
| 432 | YOR032C | YER040W | 4.352617e-07 |
| 6792 | YOR032C | YKR009C | 4.344212e-07 |
| 7579 | YGL254W | YFR022W | 4.316667e-07 |
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| 8931 | YMR280C | YLL034C | 4.248749e-07 |
| 9671 | YOR032C | YJL153C | 4.238481e-07 |
| 7280 | YKL062W | YLL033W | 4.176545e-07 |
| 9374 | YGL254W | YGL229C | 4.149649e-07 |
| 4289 | YKL015W | YGR067C | 4.148525e-07 |
| 7181 | YJR094C | YDR361C | 4.097223e-07 |
| 2888 | YGL254W | YOR100C | 4.081420e-07 |
| 1744 | YBL103C | YBR054W | 4.029918e-07 |
| 6795 | YGL254W | YKR009C | 4.005733e-07 |
| 7282 | YKL015W | YLL033W | 3.980712e-07 |
| 888 | YDL170W | YHR136C | 3.887055e-07 |
| 6187 | YJR094C | YDR258C | 3.883281e-07 |
| 7045 | YMR280C | YPR002W | 3.823072e-07 |
| 6887 | YDR216W | YKL015W | 3.821312e-07 |
| 889 | YBL103C | YHR136C | 3.793572e-07 |
| 9875 | YOR032C | YHR087W | 3.790158e-07 |
| 5991 | YJR094C | YNR028W | 3.767127e-07 |

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| 2196 | YDR216W | YPL061W | 3.761245e-07 |
| 6992 | YGL254W | YGL009C | 3.735109e-07 |
| 6337 | YDL170W | YNL194C | 3.729228e-07 |
| 3393 | YDR216W | YGL254W | 3.724096e-07 |
| 2058 | YDR216W | YER150W | 3.672922e-07 |
| 6889 | YJR094C | YKL015W | 3.616828e-07 |
| 8762 | YJR094C | YLR258W | 3.615510e-07 |
| 9056 | YKL015W | YDL110C | 3.609496e-07 |
| 1987 | YOR032C | YDR384C | 3.586172e-07 |
| 5890 | YJR094C | YLL011W | 3.581117e-07 |
| 2197 | YJR094C | YPL061W | 3.537643e-07 |
| 4590 | YKL015W | YCL064C | 3.519563e-07 |
| 8088 | YBL103C | YOR056C | 3.479142e-07 |
| 6484 | YBL103C | YLR276C | 3.442676e-07 |
| 3893 | YJR094C | YGR183C | 3.421678e-07 |
| 7586 | YJR094C | YFR022W | 3.390082e-07 |
| 6696 | YGL254W | YNL037C | 3.369853e-07 |
| 5648 | YDR043C | YIL155C | 3.354674e-07 |
| 4058 | YBL103C | YJR148W | 3.334640e-07 |
| 3444 | YKL062W | YLR174W | 3.327381e-07 |
| 4591 | YOR032C | YCL064C | 3.298702e-07 |
| 1161 | YJR094C | YGR043C | 3.293227e-07 |
| 4592 | YDR216W | YCL064C | 3.292035e-07 |
| 7392 | YKL015W | YOR302W | 3.283913e-07 |
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| 3952 | YDL170W | YER158C | 3.269552e-07 |
| 4777 | YKL062W | YDL160C | 3.264302e-07 |
| 9376 | YJR094C | YGL229C | 3.254555e-07 |
| 2993 | YJR094C | YMR169C | 3.244753e-07 |
| 4680 | YKL015W | YJL063C | 3.219492e-07 |
| 7587 | YDR216W | YFR022W | 3.217649e-07 |
| 2061 | YMR280C | YER150W | 3.207887e-07 |
| 7588 | YKL015W | YFR022W | 3.179528e-07 |
| 3191 | YJR094C | YJR110W | 3.130935e-07 |
| 8492 | YOR032C | YHR029C | 3.127845e-07 |
| 6191 | YDL170W | YDR258C | 3.109435e-07 |
| 5355 | YDL170W | YMR229C | 3.104245e-07 |
| 8583 | YDL170W | YOL014W | 3.100253e-07 |
| 9248 | YBL103C | YLR178C | 3.097832e-07 |
| 5756 | YBL103C | YJL088W | 3.096002e-07 |
| 6697 | YJR094C | YNL037C | 3.086074e-07 |
| 5356 | YDR043C | YMR229C | 3.039653e-07 |
| 5995 | YOR032C | YNR028W | 3.036747e-07 |
| 8765 | YGL254W | YLR258W | 3.024801e-07 |
| 565 | YGL254W | YGR142W | 3.020875e-07 |

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| 4190 | YGL254W | YNR064C | 3.013679e-07 |
| 2891 | YJR094C | YOR100C | 3.007617e-07 |
| 8766 | YDL170W | YLR258W | 2.984309e-07 |
| 1747 | YMR280C | YBR054W | 2.971727e-07 |
| 4779 | YGL254W | YDL160C | 2.961868e-07 |
| 4370 | YOR032C | YPL265W | 2.961623e-07 |
| 2996 | YGL254W | YMR169C | 2.958872e-07 |
| 1991 | YKL015W | YDR384C | 2.958298e-07 |
| 6555 | YDL170W | YLR438W | 2.924751e-07 |
| 7394 | YOR032C | YOR302W | 2.898420e-07 |
| 3070 | YDR216W | YNR046W | 2.884668e-07 |
| 9379 | YDL170W | YGL229C | 2.876939e-07 |
| 4683 | YJR094C | YJL063C | 2.863136e-07 |
| 1992 | YGL254W | YDR384C | 2.825300e-07 |
| 1889 | YOR032C | YCR010C | 2.804243e-07 |
| 7190 | YDR216W | YDR361C | 2.792746e-07 |
| 5760 | YDR043C | YJL088W | 2.790037e-07 |
| 1691 | YKL015W | YDL170W | 2.758108e-07 |
| 3396 | YJR094C | YGL254W | 2.740896e-07 |
| 4061 | YDR043C | YJR148W | 2.724680e-07 |
| 6798 | YJR094C | YKR009C | 2.702662e-07 |
| 4886 | YJR094C | YIL037C | 2.690251e-07 |
| 9249 | YJR094C | YLR178C | 2.670478e-07 |
| 6698 | YOR032C | YNL037C | 2.669472e-07 |
| 9877 | YGL254W | YHR087W | 2.651968e-07 |
| 1749 | YJR094C | YBR054W | 2.649163e-07 |
| 5649 | YOR032C | YIL155C | 2.647059e-07 |
| 4295 | YJR094C | YGR067C | 2.640644e-07 |
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| 8590 | YBL103C | YOL014W | 2.615476e-07 |
| 4888 | YGL254W | YIL037C | 2.591776e-07 |
| 4889 | YOR032C | YIL037C | 2.590316e-07 |
| 4685 | YOR032C | YJL063C | 2.589502e-07 |
| 5650 | YBL103C | YIL155C | 2.560221e-07 |
| 4780 | YOR032C | YDL160C | 2.526065e-07 |
| 6196 | YGL254W | YDR258C | 2.519042e-07 |
| 5457 | YDR216W | YOR206W | 2.515054e-07 |
| 3449 | YBL103C | YLR174W | 2.514381e-07 |
| 2696 | YDR216W | YJL172W | 2.492930e-07 |
| 6558 | YDR043C | YLR438W | 2.492428e-07 |
| 7396 | YJR094C | YOR302W | 2.490805e-07 |
| 8773 | YDR043C | YLR258W | 2.486179e-07 |
| 197 | YJR094C | YKL112W | 2.478300e-07 |
| 2384 | YDR216W | YLR009W | 2.461493e-07 |
| 8349 | YER040W | YLR267W | 2.413679e-07 |

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| 3197 | YKL015W | YJR110W | 2.393831e-07 |
| 4063 | YJR094C | YJR148W | 2.390413e-07 |
| 5242 | YDR216W | YHL028W | 2.355627e-07 |
| 5458 | YOR032C | YOR206W | 2.355047e-07 |
| 3074 | YOR032C | YNR046W | 2.338360e-07 |
| 6197 | YOR032C | YDR258C | 2.335031e-07 |
| 3252 | YDR216W | YMR193W | 2.304392e-07 |
| 573 | YMR280C | YGR142W | 2.302145e-07 |
| 8350 | YMR280C | YLR267W | 2.280940e-07 |
| 9682 | YKL015W | YJL153C | 2.231007e-07 |
| 1751 | YKL015W | YBR054W | 2.224510e-07 |
| 9571 | YJR094C | YHR216W | 2.213469e-07 |
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| 793 | YBL103C | YML123C | 2.191418e-07 |
| 5360 | YKL062W | YMR229C | 2.178292e-07 |
| 5361 | YMR280C | YMR229C | 2.171349e-07 |
| 7671 | YBL103C | YAL062W | 2.164409e-07 |
| 2389 | YKL015W | YLR009W | 2.139381e-07 |
| 6342 | YER040W | YNL194C | 2.137419e-07 |
| 9879 | YDR043C | YHR087W | 2.093988e-07 |
| 2391 | YOR032C | YLR009W | 2.083739e-07 |
| 5080 | YBL103C | YDL091C | 2.060509e-07 |
| 5243 | YER040W | YHL028W | 2.059984e-07 |
| 9880 | YER040W | YHR087W | 2.000043e-07 |
| 6492 | YOR032C | YLR276C | 1.947101e-07 |
| 2697 | YJR094C | YJL172W | 1.921034e-07 |
| 4196 | YDR216W | YNR064C | 1.920942e-07 |
| 797 | YJR094C | YML123C | 1.900796e-07 |
| 7194 | YOR032C | YDR361C | 1.849657e-07 |
| 5362 | YOR032C | YMR229C | 1.833765e-07 |
| 1397 | YJR094C | YAL054C | 1.831215e-07 |
| 4198 | YJR094C | YNR064C | 1.823237e-07 |
| 6047 | YDL170W | YDR043C | 1.816037e-07 |
| 1569 | YJR094C | YOR348C | 1.813984e-07 |
| 4470 | YDL170W | YKR056W | 1.795745e-07 |
| 8596 | YOR032C | YOL014W | 1.795322e-07 |
| 8094 | YOR032C | YOR056C | 1.788916e-07 |
| 4784 | YJR094C | YDL160C | 1.777701e-07 |
| 2441 | YER040W | YPL111W | 1.767883e-07 |
| 8856 | YKL112W | YDR380W | 1.766264e-07 |
| 2442 | YDL170W | YPL111W | 1.739175e-07 |
| 2443 | YJR094C | YPL111W | 1.731046e-07 |
| 1997 | YDR216W | YDR384C | 1.728369e-07 |
| 438 | YKL112W | YER040W | 1.726597e-07 |
| 8632 | YKL062W | YNR053C | 1.726104e-07 |

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| 8096 | YGL254W | YOR056C | 1.716742e-07 |
| 1570 | YER040W | YOR348C | 1.713056e-07 |
| 3076 | YGL254W | YNR046W | 1.705496e-07 |
| 978 | YGL254W | YDR171W | 1.668875e-07 |
| 2066 | YGL254W | YER150W | 1.667044e-07 |
| 1572 | YKL112W | YOR348C | 1.609744e-07 |
| 8353 | YGL254W | YLR267W | 1.587609e-07 |
| 4072 | YKL062W | YJR148W | 1.583843e-07 |
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| 5467 | YBL103C | YOR206W | 1.540753e-07 |
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| 6344 | YMR280C | YNL194C | 1.528917e-07 |
| 3960 | YER040W | YER158C | 1.519059e-07 |
| 1998 | YJR094C | YDR384C | 1.507027e-07 |
| 9883 | YBL103C | YHR087W | 1.455193e-07 |
| 274 | YOR032C | YDR216W | 1.452130e-07 |
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| 2277 | YGL254W | YKR075C | 1.437970e-07 |
| 1246 | YDL170W | YHR018C | 1.433464e-07 |
| 1247 | YOR032C | YHR018C | 1.420782e-07 |
| 5770 | YOR032C | YJL088W | 1.357260e-07 |
| 2397 | YGL254W | YLR009W | 1.356856e-07 |
| 8159 | YKL015W | YBL042C | 1.335370e-07 |
| 2398 | YJR094C | YLR009W | 1.326562e-07 |
| 6345 | YOR032C | YNL194C | 1.322515e-07 |
| 7053 | YDR216W | YPR002W | 1.279618e-07 |
| 9389 | YKL015W | YGL229C | 1.251679e-07 |
| 6500 | YJR094C | YLR276C | 1.237329e-07 |
| 8860 | YER040W | YDR380W | 1.235397e-07 |
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| 587 | YDR216W | YGR142W | 1.222716e-07 |
| 6346 | YDR216W | YNL194C | 1.216007e-07 |
| 278 | YDR043C | YDR216W | 1.180717e-07 |
| 5473 | YKL112W | YOR206W | 1.178267e-07 |
| 5775 | YJR094C | YJL088W | 1.144011e-07 |
| 5150 | YOR032C | YHR051W | 1.134171e-07 |
| 589 | YJR094C | YGR142W | 1.129812e-07 |
| 8636 | YKL112W | YNR053C | 1.105646e-07 |
| 5249 | YBL103C | YHL028W | 1.093626e-07 |
| 282 | YJR094C | YDR216W | 1.066920e-07 |
| 4082 | YKL015W | YJR148W | 1.055341e-07 |
| 1181 | YKL015W | YGR043C | 1.046240e-07 |
| 9578 | YDL170W | YHR216W | 1.034528e-07 |
| 8867 | YDL170W | YDR380W | 1.024931e-07 |
| 655 | YOR032C | YNL036W | 1.008842e-07 |

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| 5781 | YMR280C | YJL088W | 9.798656e-08 |
| 5154 | YKL112W | YHR051W | 9.785475e-08 |
| 5782 | YGL254W | YJL088W | 9.710270e-08 |
| 7058 | YKL015W | YPR002W | 9.284758e-08 |
| 8791 | YOR032C | YLR258W | 9.224313e-08 |
| 594 | YKL015W | YGR142W | 9.173766e-08 |
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0.5649839 0.5648621 0.9922309

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> title("ROC")
> prc( contabs.netwBMA( edges.ScanBMA, referencePairs), plotit = TRUE)

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1602  YDR216W   YDR216W 1.000000e+00
2102  YDL170W   YDL170W 1.000000e+00
2202  YKL062W   YKL062W 1.000000e+00
2203  YGL254W   YGL254W 1.000000e+00
2301  YKL015W   YKL015W 1.000000e+00
2501  YKL112W   YKL112W 1.000000e+00
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3701  YDR043C   YDR043C 1.000000e+00
5702  YER040W   YER040W 1.000000e+00
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2004  YKL062W   YER150W 1.000000e+00
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2903  YKL062W   YMR169C 1.000000e+00
7104  YKL062W   YDR361C 1.000000e+00
904   YDR216W   YDR171W 1.000000e+00
5303  YER040W   YMR229C 1.000000e+00

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| 7004 | YBL103C | YPR002W | 9.882139e-01 |
| 605 | YMR280C | YNL036W | 9.870398e-01 |
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| 3005 | YKL062W | YNR046W | 6.295850e-01 |
| 2805 | YBL103C | YOR100C | 5.552321e-01 |
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| 3904 | YDR043C | YER158C | 5.123184e-01 |
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| 8906 | YDR043C | YLL034C | 3.694592e-01 |
| 4406 | YMR280C | YKR056W | 3.552051e-01 |
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| 6110 | YKL015W | YDR258C | 2.726643e-01 |
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| 8409 | YKL112W | YHR029C | 2.182628e-01 |
| 9105 | YDR043C | YER067W | 2.008918e-01 |
| 7006 | YDL170W | YPR002W | 1.717569e-01 |
| 2707 | YDR043C | YPL012W | 1.621825e-01 |
| 8104 | YJR094C | YBL042C | 9.687050e-02 |
| 4204 | YMR280C | YGR067C | 9.326290e-02 |
| 8706 | YKL062W | YLR258W | 8.575580e-02 |
| 7805 | YKL062W | YPL036W | 8.001430e-02 |
| 8506 | YKL062W | YOL014W | 7.639610e-02 |
| 1306 | YMR280C | YAL054C | 6.050860e-02 |
| 3207 | YKL062W | YMR193W | 5.076040e-02 |
| 2008 | YDL170W | YER150W | 3.848110e-02 |

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| 2009 | YBL103C | YER150W | 3.700350e-02 |
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| 5706 | YDL170W | YJL088W | 2.902040e-02 |
| 1512 | YKL062W | YOR348C | 2.571560e-02 |
| 9607 | YKL112W | YJL153C | 2.486470e-02 |
| 709 | YDR043C | YML123C | 2.458570e-02 |
| 5009 | YKL062W | YDL091C | 2.103520e-02 |
| 5407 | YKL062W | YOR206W | 2.060740e-02 |
| 922 | YKL062W | YDR171W | 1.930490e-02 |
| 7806 | YBL103C | YPL036W | 1.577170e-02 |
| 1513 | YKL015W | YOR348C | 1.477050e-02 |
| 1710 | YGL254W | YBR054W | 1.424450e-02 |
| 6706 | YDR043C | YKR009C | 1.127072e-02 |
| 4613 | YKL112W | YJL063C | 1.119170e-02 |
| 815 | YDR043C | YHR136C | 9.952100e-03 |
| 2503 | YDR043C | YOR388C | 8.822526e-03 |
| 9916 | YKL015W | YKL062W | 7.384918e-03 |
| 7807 | YOR032C | YPL036W | 7.080500e-03 |
| 2711 | YKL062W | YPL012W | 6.664478e-03 |
| 3512 | YMR280C | YER002W | 6.093500e-03 |
| 6012 | YKL112W | YDR043C | 5.848100e-03 |
| 1807 | YDR216W | YCR010C | 4.388878e-03 |
| 8108 | YKL112W | YBL042C | 4.276927e-03 |
| 1414 | YKL015W | YFL014W | 4.134512e-03 |
| 319 | YDR216W | YMR280C | 3.392673e-03 |
| 7808 | YDR043C | YPL036W | 3.352507e-03 |
| 6413 | YMR280C | YLR276C | 3.311332e-03 |
| 5905 | YKL015W | YNR028W | 2.699416e-03 |
| 4412 | YKL112W | YKR056W | 2.263679e-03 |
| 7809 | YKL112W | YPL036W | 2.186318e-03 |
| 2613 | YKL062W | YJL172W | 2.031746e-03 |
| 321 | YER040W | YMR280C | 1.715859e-03 |
| 9210 | YKL015W | YLR178C | 1.640806e-03 |
| 2809 | YMR280C | YOR100C | 1.564278e-03 |
| 2114 | YGL254W | YPL061W | 1.349289e-03 |
| 9714 | YKL112W | YKL040C | 1.288645e-03 |
| 5824 | YDR043C | YLL011W | 1.228833e-03 |
| 4105 | YKL112W | YNR064C | 1.155329e-03 |
| 7612 | YKL112W | YAL062W | 1.143604e-03 |
| 7208 | YDR043C | YLL033W | 1.139963e-03 |
| 9924 | YDR216W | YKL062W | 1.136548e-03 |
| 2117 | YER040W | YPL061W | 1.097779e-03 |
| 9110 | YOR032C | YER067W | 9.938753e-04 |

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| 5505 | YKL112W | YJR094C | 9.377215e-04 |
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| 1311 | YDR216W | YAL054C | 7.240126e-04 |
| 3107 | YER040W | YJR110W | 7.085352e-04 |
| 1614 | YKL062W | YDL170W | 6.620358e-04 |
| 107 | YKL062W | YKL112W | 6.518338e-04 |
| 5314 | YKL112W | YMR229C | 6.153800e-04 |
| 9403 | YDR043C | YOR032C | 6.021894e-04 |
| 5827 | YKL062W | YLL011W | 5.800563e-04 |
| 1418 | YDL170W | YFL014W | 5.600695e-04 |
| 9823 | YKL015W | YHR087W | 4.882720e-04 |
| 326 | YDL170W | YMR280C | 4.740960e-04 |
| 8210 | YGL254W | YLR130C | 4.548084e-04 |
| 2909 | YKL015W | YMR169C | 4.510282e-04 |
| 2513 | YDL170W | YOR388C | 4.487671e-04 |
| 2719 | YMR280C | YPL012W | 3.749033e-04 |
| 2617 | YER040W | YJL172W | 3.361743e-04 |
| 2811 | YKL062W | YOR100C | 3.233403e-04 |
| 1422 | YDR216W | YFL014W | 3.179950e-04 |
| 8211 | YDR216W | YLR130C | 3.131830e-04 |
| 3916 | YKL015W | YER158C | 3.127803e-04 |
| 3917 | YOR032C | YER158C | 3.047235e-04 |
| 6207 | YBL103C | YKL071W | 2.745549e-04 |
| 7313 | YDL170W | YOR302W | 2.706648e-04 |
| 5509 | YDR043C | YJR094C | 2.677044e-04 |
| 5412 | YDR043C | YOR206W | 2.508847e-04 |
| 1315 | YGL254W | YAL054C | 2.484465e-04 |
| 7116 | YDR043C | YDR361C | 2.474675e-04 |
| 4208 | YDR216W | YGR067C | 2.437015e-04 |
| 8311 | YBL103C | YLR267W | 2.395245e-04 |
| 2024 | YER040W | YER150W | 2.334549e-04 |
| 3812 | YKL015W | YGR183C | 2.312097e-04 |
| 1022 | YER040W | YCR021C | 2.278207e-04 |
| 331 | YGL254W | YMR280C | 2.205116e-04 |
| 2722 | YOR032C | YPL012W | 2.181173e-04 |
| 4912 | YDR216W | YLR327C | 2.149646e-04 |
| 926 | YBL103C | YDR171W | 2.145629e-04 |
| 8215 | YMR280C | YLR130C | 2.124343e-04 |
| 2315 | YKL062W | YLR009W | 2.033173e-04 |
| 9512 | YOR032C | YHR216W | 2.023385e-04 |
| 3813 | YKL062W | YGR183C | 1.950767e-04 |
| 9933 | YDR043C | YKL062W | 1.860922e-04 |
| 108 | YDR043C | YKL112W | 1.859648e-04 |
| 4913 | YER040W | YLR327C | 1.794421e-04 |
| 9116 | YBL103C | YER067W | 1.754331e-04 |

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| 7714 | YKL112W | YDR523C | 1.746721e-04 |
| 6018 | YOR032C | YDR043C | 1.741403e-04 |
| 3114 | YBL103C | YJR110W | 1.700068e-04 |
| 4914 | YKL015W | YLR327C | 1.686509e-04 |
| 5833 | YGL254W | YLL011W | 1.669997e-04 |
| 6809 | YOR032C | YKL015W | 1.653053e-04 |
| 2517 | YKL062W | YOR388C | 1.648864e-04 |
| 6623 | YKL112W | YNL037C | 1.642704e-04 |
| 4010 | YOR032C | YJR148W | 1.637047e-04 |
| 6127 | YER040W | YDR258C | 1.633385e-04 |
| 9214 | YER040W | YLR178C | 1.601746e-04 |
| 2121 | YDL170W | YPL061W | 1.597378e-04 |
| 5514 | YER040W | YJR094C | 1.526310e-04 |
| 9617 | YDR043C | YJL153C | 1.517209e-04 |
| 4711 | YBL103C | YDL160C | 1.405944e-04 |
| 2519 | YMR280C | YOR388C | 1.405749e-04 |
| 6722 | YER040W | YKR009C | 1.376892e-04 |
| 5913 | YER040W | YNR028W | 1.372189e-04 |
| 3720 | YER040W | YIL136W | 1.328123e-04 |
| 9725 | YKL062W | YKL040C | 1.314229e-04 |
| 1435 | YDR043C | YFL014W | 1.260688e-04 |
| 8017 | YKL062W | YOR056C | 1.242641e-04 |
| 8018 | YDR043C | YOR056C | 1.239953e-04 |
| 333 | YKL015W | YMR280C | 1.222893e-04 |
| 9122 | YDR216W | YER067W | 1.168811e-04 |
| 5516 | YDL170W | YJR094C | 1.163116e-04 |
| 1027 | YBL103C | YCR021C | 1.161262e-04 |
| 2520 | YER040W | YOR388C | 1.146756e-04 |
| 1111 | YOR032C | YGR043C | 1.121684e-04 |
| 8619 | YDR043C | YNR053C | 1.118330e-04 |
| 4918 | YDL170W | YLR327C | 1.106170e-04 |
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| 3115 | YGL254W | YJR110W | 1.098570e-04 |
| 1926 | YKL112W | YDR384C | 1.079826e-04 |
| 9409 | YKL062W | YOR032C | 1.017373e-04 |
| 335 | YBL103C | YMR280C | 9.858481e-05 |
| 6726 | YDL170W | YKR009C | 9.620874e-05 |
| 9939 | YMR280C | YKL062W | 9.431196e-05 |
| 5614 | YKL015W | YIL155C | 9.354593e-05 |
| 9729 | YOR032C | YKL040C | 9.145716e-05 |
| 1626 | YKL112W | YDL170W | 9.046739e-05 |
| 6906 | YMR280C | YGL009C | 8.908588e-05 |
| 5518 | YBL103C | YJR094C | 8.692344e-05 |
| 7718 | YKL062W | YDR523C | 8.603540e-05 |
| 6810 | YKL062W | YKL015W | 8.567141e-05 |

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| 3317 | YKL015W | YGL254W | 8.378584e-05 |
| 9016 | YBL103C | YDL110C | 8.347189e-05 |
| 9831 | YKL062W | YHR087W | 8.229672e-05 |
| 6812 | YKL112W | YKL015W | 7.749511e-05 |
| 9732 | YER040W | YKL040C | 7.613779e-05 |
| 6627 | YMR280C | YNL037C | 7.514219e-05 |
| 2915 | YDL170W | YMR169C | 7.310313e-05 |
| 1448 | YJR094C | YFL014W | 7.215076e-05 |
| 7820 | YER040W | YPL036W | 7.199133e-05 |
| 9942 | YKL112W | YKL062W | 7.197676e-05 |
| 4623 | YMR280C | YJL063C | 7.114622e-05 |
| 9320 | YDR043C | YGL229C | 7.091607e-05 |
| 3820 | YMR280C | YGR183C | 6.982865e-05 |
| 7908 | YDR043C | YJL217W | 6.963837e-05 |
| 9321 | YMR280C | YGL229C | 6.960399e-05 |
| 1631 | YBL103C | YDL170W | 6.626979e-05 |
| 7410 | YKL015W | YNL270C | 6.502019e-05 |
| 6813 | YMR280C | YKL015W | 6.384302e-05 |
| 7722 | YER040W | YDR523C | 6.149331e-05 |
| 2629 | YDR043C | YJL172W | 6.110538e-05 |
| 1930 | YKL062W | YDR384C | 6.107044e-05 |
| 7411 | YMR280C | YNL270C | 6.048286e-05 |
| 6631 | YDR043C | YNL037C | 5.927016e-05 |
| 8221 | YKL062W | YLR130C | 5.818131e-05 |
| 7911 | YDR216W | YJL217W | 5.803088e-05 |
| 8312 | YDR043C | YLR267W | 5.777822e-05 |
| 5521 | YKL062W | YJR094C | 5.741613e-05 |
| 6734 | YBL103C | YKR009C | 5.716572e-05 |
| 7316 | YKL112W | YOR302W | 5.685453e-05 |
| 4812 | YKL112W | YIL037C | 5.673267e-05 |
| 5522 | YGL254W | YJR094C | 5.638254e-05 |
| 345 | YKL062W | YMR280C | 5.626418e-05 |
| 4217 | YKL112W | YGR067C | 5.606436e-05 |
| 3822 | YDR043C | YGR183C | 5.573155e-05 |
| 346 | YOR032C | YMR280C | 5.520617e-05 |
| 2918 | YMR280C | YMR169C | 5.451099e-05 |
| 9126 | YDL170W | YER067W | 5.374859e-05 |
| 415 | YDR043C | YER040W | 5.364057e-05 |
| 1036 | YDL170W | YCR021C | 5.325783e-05 |
| 7317 | YBL103C | YOR302W | 5.302314e-05 |
| 4715 | YER040W | YDL160C | 5.273234e-05 |
| 9514 | YBL103C | YHR216W | 5.246698e-05 |
| 2532 | YBL103C | YOR388C | 5.039521e-05 |
| 217 | YKL015W | YDR216W | 4.954761e-05 |
| 7412 | YKL062W | YNL270C | 4.826213e-05 |

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| 1454 | YMR280C | YFL014W | 4.780681e-05 |
| 9417 | YKL015W | YOR032C | 4.762414e-05 |
| 4814 | YKL062W | YIL037C | 4.713642e-05 |
| 1632 | YDR043C | YDL170W | 4.549196e-05 |
| 7913 | YJR094C | YJL217W | 4.457401e-05 |
| 6639 | YKL015W | YNL037C | 4.409747e-05 |
| 5416 | YMR280C | YOR206W | 4.353974e-05 |
| 7320 | YER040W | YOR302W | 4.310284e-05 |
| 828 | YMR280C | YHR136C | 4.264791e-05 |
| 4117 | YMR280C | YNR064C | 4.233747e-05 |
| 6137 | YDR216W | YDR258C | 4.107077e-05 |
| 1635 | YOR032C | YDL170W | 4.050507e-05 |
| 5716 | YKL062W | YJL088W | 3.835422e-05 |
| 7015 | YKL112W | YPR002W | 3.770909e-05 |
| 2533 | YJR094C | YOR388C | 3.752717e-05 |
| 1116 | YMR280C | YGR043C | 3.691210e-05 |
| 5719 | YER040W | YJL088W | 3.687478e-05 |
| 5112 | YMR280C | YHR051W | 3.681192e-05 |
| 218 | YDL170W | YDR216W | 3.627576e-05 |
| 9742 | YBL103C | YKL040C | 3.538803e-05 |
| 9131 | YER040W | YER067W | 3.517504e-05 |
| 9743 | YDL170W | YKL040C | 3.497766e-05 |
| 7828 | YDL170W | YPL036W | 3.488702e-05 |
| 8226 | YBL103C | YLR130C | 3.475313e-05 |
| 8432 | YBL103C | YHR029C | 3.468308e-05 |
| 9217 | YDL170W | YLR178C | 3.400787e-05 |
| 8520 | YMR280C | YOL014W | 3.384804e-05 |
| 6431 | YER040W | YLR276C | 3.326874e-05 |
| 7915 | YKL062W | YJL217W | 3.266112e-05 |
| 934 | YDL170W | YDR171W | 3.160488e-05 |
| 729 | YMR280C | YML123C | 3.133920e-05 |
| 5532 | YMR280C | YJR094C | 3.113875e-05 |
| 4118 | YBL103C | YNR064C | 3.087882e-05 |
| 7217 | YDL170W | YLL033W | 3.070819e-05 |
| 2217 | YDR043C | YKR075C | 3.051942e-05 |
| 8116 | YOR032C | YBL042C | 3.047466e-05 |
| 2218 | YMR280C | YKR075C | 3.011241e-05 |
| 9836 | YDL170W | YHR087W | 2.879614e-05 |
| 1821 | YKL062W | YCR010C | 2.857842e-05 |
| 8228 | YDL170W | YLR130C | 2.846683e-05 |
| 9517 | YKL015W | YHR216W | 2.820889e-05 |
| 126 | YOR032C | YKL112W | 2.805498e-05 |
| 1936 | YER040W | YDR384C | 2.805228e-05 |
| 3729 | YDL170W | YIL136W | 2.799122e-05 |
| 5720 | YKL112W | YJL088W | 2.778042e-05 |

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| 6433 | YKL062W | YLR276C | 2.734314e-05 |
| 5851 | YMR280C | YLL011W | 2.686023e-05 |
| 9423 | YMR280C | YOR032C | 2.677814e-05 |
| 6318 | YKL062W | YNL194C | 2.659118e-05 |
| 7919 | YMR280C | YJL217W | 2.647862e-05 |
| 7513 | YKL112W | YFR022W | 2.604530e-05 |
| 8230 | YKL112W | YLR130C | 2.603658e-05 |
| 7832 | YMR280C | YPL036W | 2.583816e-05 |
| 7129 | YMR280C | YDR361C | 2.548553e-05 |
| 5930 | YBL103C | YNR028W | 2.494533e-05 |
| 2134 | YBL103C | YPL061W | 2.493416e-05 |
| 5931 | YDL170W | YNR028W | 2.485983e-05 |
| 5932 | YKL112W | YNR028W | 2.471808e-05 |
| 5031 | YOR032C | YDL091C | 2.446864e-05 |
| 357 | YDR043C | YMR280C | 2.416850e-05 |
| 1824 | YER040W | YCR010C | 2.402678e-05 |
| 1328 | YDR043C | YAL054C | 2.399200e-05 |
| 128 | YDL170W | YKL112W | 2.377286e-05 |
| 6215 | YER040W | YKL071W | 2.315170e-05 |
| 223 | YER040W | YDR216W | 2.298749e-05 |
| 7922 | YOR032C | YJL217W | 2.297164e-05 |
| 8233 | YER040W | YLR130C | 2.288770e-05 |
| 833 | YGL254W | YHR136C | 2.279321e-05 |
| 9331 | YKL112W | YGL229C | 2.233116e-05 |
| 2928 | YER040W | YMR169C | 2.222405e-05 |
| 9950 | YOR032C | YKL062W | 2.159891e-05 |
| 1826 | YBL103C | YCR010C | 2.153017e-05 |
| 6021 | YKL062W | YDR043C | 2.129365e-05 |
| 5852 | YKL112W | YLL011W | 2.110915e-05 |
| 7735 | YDL170W | YDR523C | 2.080357e-05 |
| 7219 | YKL112W | YLL033W | 2.072730e-05 |
| 2138 | YKL112W | YPL061W | 2.063347e-05 |
| 733 | YKL062W | YML123C | 2.040661e-05 |
| 7736 | YDR043C | YDR523C | 1.995620e-05 |
| 834 | YKL015W | YHR136C | 1.980063e-05 |
| 9840 | YDR216W | YHR087W | 1.974842e-05 |
| 6523 | YKL112W | YLR438W | 1.946194e-05 |
| 7518 | YOR032C | YFR022W | 1.935727e-05 |
| 4529 | YJR094C | YCL064C | 1.919554e-05 |
| 9424 | YBL103C | YOR032C | 1.881462e-05 |
| 2932 | YDR216W | YMR169C | 1.861922e-05 |
| 4822 | YDL170W | YIL037C | 1.845615e-05 |
| 7221 | YER040W | YLL033W | 1.842544e-05 |
| 3025 | YBL103C | YNR046W | 1.814905e-05 |
| 2324 | YMR280C | YLR009W | 1.811048e-05 |

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| 1830 | YGL254W | YCR010C | 1.780305e-05 |
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| 522 | YDR043C | YGR142W | 1.699126e-05 |
| 8040 | YKL112W | YOR056C | 1.689480e-05 |
| 2546 | YKL112W | YOR388C | 1.669787e-05 |
| 2325 | YDL170W | YLR009W | 1.659497e-05 |
| 4720 | YDR043C | YDL160C | 1.653961e-05 |
| 2834 | YKL112W | YOR100C | 1.603619e-05 |
| 2547 | YDR216W | YOR388C | 1.600462e-05 |
| 2229 | YKL112W | YKR075C | 1.599917e-05 |
| 7628 | YGL254W | YAL062W | 1.597608e-05 |
| 6745 | YMR280C | YKR009C | 1.585847e-05 |
| 4721 | YDL170W | YDL160C | 1.577741e-05 |
| 5538 | YDR216W | YJR094C | 1.554942e-05 |
| 6145 | YMR280C | YDR258C | 1.544585e-05 |
| 4315 | YBL103C | YPL265W | 1.533936e-05 |
| 9021 | YKL062W | YDL110C | 1.526807e-05 |
| 5858 | YDL170W | YLL011W | 1.507655e-05 |
| 4232 | YKL062W | YGR067C | 1.502316e-05 |
| 7838 | YKL015W | YPL036W | 1.502199e-05 |
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| 1832 | YKL112W | YCR010C | 1.459846e-05 |
| 9425 | YKL112W | YOR032C | 1.447197e-05 |
| 7428 | YDR043C | YNL270C | 1.433132e-05 |
| 3130 | YKL112W | YJR110W | 1.402890e-05 |
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| 3836 | YKL112W | YGR183C | 1.352707e-05 |
| 4427 | YDR216W | YKR056W | 1.341729e-05 |
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| 6932 | YKL062W | YGL009C | 1.289146e-05 |
| 9336 | YDR216W | YGL229C | 1.248088e-05 |
| 6149 | YKL062W | YDR258C | 1.215705e-05 |
| 7227 | YOR032C | YLL033W | 1.201057e-05 |
| 1343 | YDL170W | YAL054C | 1.196407e-05 |
| 4936 | YGL254W | YLR327C | 1.194683e-05 |
| 6444 | YDL170W | YLR276C | 1.164164e-05 |
| 2333 | YBL103C | YLR009W | 1.159344e-05 |
| 7927 | YDL170W | YJL217W | 1.140154e-05 |
| 6747 | YKL112W | YKR009C | 1.134916e-05 |
| 1471 | YKL112W | YFL014W | 1.127983e-05 |
| 2941 | YBL103C | YMR169C | 1.098467e-05 |

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| 9144 | YKL062W | YER067W | 1.097955e-05 |
| 1215 | YER040W | YHR018C | 1.083133e-05 |
| 9338 | YBL103C | YGL229C | 1.082496e-05 |
| 7231 | YBL103C | YLL033W | 1.076115e-05 |
| 4130 | YDL170W | YNR064C | 1.073972e-05 |
| 9524 | YDR043C | YHR216W | 1.045144e-05 |
| 7929 | YER040W | YJL217W | 1.039800e-05 |
| 2231 | YKL062W | YKR075C | 1.039026e-05 |
| 525 | YER040W | YGR142W | 1.037287e-05 |
| 228 | YBL103C | YDR216W | 1.024234e-05 |
| 6224 | YOR032C | YKL071W | 1.019095e-05 |
| 4017 | YKL112W | YJR148W | 1.003964e-05 |
| 2750 | YBL103C | YPL012W | 9.716072e-06 |
| 3735 | YKL112W | YIL136W | 9.671371e-06 |
| 1841 | YKL015W | YCR010C | 9.255886e-06 |
| 9339 | YKL062W | YGL229C | 9.223619e-06 |
| 939 | YKL015W | YDR171W | 9.164611e-06 |
| 3220 | YDR043C | YMR193W | 8.846968e-06 |
| 2650 | YDL170W | YJL172W | 8.765911e-06 |
| 8050 | YMR280C | YOR056C | 8.730850e-06 |
| 4942 | YKL112W | YLR327C | 8.719970e-06 |
| 4133 | YKL015W | YNR064C | 8.676632e-06 |
| 2944 | YDR043C | YMR169C | 8.666203e-06 |
| 6227 | YDL170W | YKL071W | 8.418289e-06 |
| 2652 | YKL112W | YJL172W | 8.344594e-06 |
| 6530 | YKL062W | YLR438W | 8.248821e-06 |
| 9631 | YMR280C | YJL153C | 8.221192e-06 |
| 6321 | YKL015W | YNL194C | 8.092109e-06 |
| 1127 | YBL103C | YGR043C | 7.981064e-06 |
| 6830 | YDR043C | YKL015W | 7.920131e-06 |
| 2842 | YOR032C | YOR100C | 7.858714e-06 |
| 2560 | YOR032C | YOR388C | 7.775450e-06 |
| 5039 | YMR280C | YDL091C | 7.742857e-06 |
| 2563 | YGL254W | YOR388C | 7.673306e-06 |
| 3737 | YKL015W | YIL136W | 7.634000e-06 |
| 141 | YER040W | YKL112W | 7.585626e-06 |
| 4321 | YMR280C | YPL265W | 7.562203e-06 |
| 6449 | YDR216W | YLR276C | 7.544046e-06 |
| 4826 | YDR043C | YIL037C | 7.505486e-06 |
| 7932 | YGL254W | YJL217W | 7.493570e-06 |
| 3738 | YOR032C | YIL136W | 7.300849e-06 |
| 9632 | YER040W | YJL153C | 7.289606e-06 |
| 9760 | YDR216W | YKL040C | 7.271380e-06 |
| 2947 | YOR032C | YMR169C | 7.011217e-06 |
| 9633 | YKL062W | YJL153C | 6.932814e-06 |

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| 2654 | YMR280C | YJL172W | 6.897514e-06 |
| 5040 | YKL112W | YDL091C | 6.815323e-06 |
| 7530 | YMR280C | YFR022W | 6.623200e-06 |
| 4637 | YKL062W | YJL063C | 6.380821e-06 |
| 7441 | YDL170W | YNL270C | 6.323033e-06 |
| 8819 | YKL062W | YDR380W | 6.252150e-06 |
| 3338 | YKL062W | YGL254W | 6.230039e-06 |
| 4434 | YKL062W | YKR056W | 6.177072e-06 |
| 2846 | YDL170W | YOR100C | 6.089676e-06 |
| 8727 | YKL015W | YLR258W | 6.082714e-06 |
| 4138 | YER040W | YNR064C | 5.784629e-06 |
| 6833 | YDL170W | YKL015W | 5.579904e-06 |
| 8323 | YKL112W | YLR267W | 5.497778e-06 |
| 4540 | YDL170W | YCL064C | 5.435528e-06 |
| 6942 | YDR043C | YGL009C | 5.416631e-06 |
| 7937 | YBL103C | YJL217W | 5.410236e-06 |
| 7442 | YDR216W | YNL270C | 5.205863e-06 |
| 1958 | YBL103C | YDR384C | 5.189335e-06 |
| 4833 | YMR280C | YIL037C | 5.110947e-06 |
| 9763 | YGL254W | YKL040C | 5.073716e-06 |
| 5549 | YKL015W | YJR094C | 4.750102e-06 |
| 5943 | YGL254W | YNR028W | 4.728916e-06 |
| 9025 | YOR032C | YDL110C | 4.665576e-06 |
| 4641 | YDL170W | YJL063C | 4.660066e-06 |
| 7144 | YKL112W | YDR361C | 4.628863e-06 |
| 3932 | YKL062W | YER158C | 4.620258e-06 |
| 8824 | YDR043C | YDR380W | 4.581335e-06 |
| 2426 | YDR043C | YPL111W | 4.570775e-06 |
| 5729 | YDR216W | YJL088W | 4.563106e-06 |
| 4249 | YER040W | YGR067C | 4.538197e-06 |
| 6454 | YKL112W | YLR276C | 4.525177e-06 |
| 4544 | YDR043C | YCL064C | 4.335303e-06 |
| 7145 | YER040W | YDR361C | 4.291178e-06 |
| 377 | YKL112W | YMR280C | 4.281128e-06 |
| 3225 | YGL254W | YMR193W | 4.210543e-06 |
| 7942 | YKL015W | YJL217W | 4.155309e-06 |
| 5047 | YDR043C | YDL091C | 4.129784e-06 |
| 9158 | YKL112W | YER067W | 4.089677e-06 |
| 3742 | YBL103C | YIL136W | 4.006699e-06 |
| 6167 | YDR043C | YDR258C | 3.994869e-06 |
| 1065 | YMR280C | YCR021C | 3.968059e-06 |
| 4645 | YDR216W | YJL063C | 3.884346e-06 |
| 1066 | YKL112W | YCR021C | 3.843331e-06 |
| 3346 | YDL170W | YGL254W | 3.842424e-06 |
| 5870 | YER040W | YLL011W | 3.831991e-06 |

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| 3347 | YDR043C | YGL254W | 3.819941e-06 |
| 9160 | YKL015W | YER067W | 3.814344e-06 |
| 7943 | YKL112W | YJL217W | 3.784805e-06 |
| 3348 | YER040W | YGL254W | 3.779341e-06 |
| 9162 | YGL254W | YER067W | 3.775882e-06 |
| 4546 | YER040W | YCL064C | 3.749530e-06 |
| 2851 | YDR216W | YOR100C | 3.747063e-06 |
| 6025 | YKL015W | YDR043C | 3.733617e-06 |
| 5871 | YKL015W | YLL011W | 3.701246e-06 |
| 3421 | YDR216W | YLR174W | 3.687687e-06 |
| 7537 | YER040W | YFR022W | 3.684195e-06 |
| 4251 | YDL170W | YGR067C | 3.660468e-06 |
| 7765 | YMR280C | YDR523C | 3.576189e-06 |
| 7538 | YBL103C | YFR022W | 3.521667e-06 |
| 9352 | YER040W | YGL229C | 3.488473e-06 |
| 6662 | YDR216W | YNL037C | 3.466172e-06 |
| 1477 | YOR032C | YFL014W | 3.462118e-06 |
| 3422 | YMR280C | YLR174W | 3.402917e-06 |
| 6234 | YDR043C | YKL071W | 3.395999e-06 |
| 4739 | YDR216W | YDL160C | 3.382019e-06 |
| 7447 | YBL103C | YNL270C | 3.361308e-06 |
| 5219 | YDR043C | YHL028W | 3.354458e-06 |
| 7448 | YER040W | YNL270C | 3.335423e-06 |
| 4331 | YKL112W | YPL265W | 3.320012e-06 |
| 4333 | YER040W | YPL265W | 3.250735e-06 |
| 4965 | YKL062W | YLR327C | 3.208970e-06 |
| 6665 | YDL170W | YNL037C | 3.141530e-06 |
| 3041 | YDL170W | YNR046W | 3.120892e-06 |
| 9444 | YER040W | YOR032C | 3.065905e-06 |
| 5124 | YKL062W | YHR051W | 3.065417e-06 |
| 4742 | YKL112W | YDL160C | 3.042818e-06 |
| 2658 | YBL103C | YJL172W | 2.997725e-06 |
| 4654 | YBL103C | YJL063C | 2.977507e-06 |
| 9535 | YDR216W | YHR216W | 2.959753e-06 |
| 9026 | YDR043C | YDL110C | 2.928778e-06 |
| 1534 | YBL103C | YOR348C | 2.927453e-06 |
| 4655 | YGL254W | YJL063C | 2.856963e-06 |
| 8122 | YDR043C | YBL042C | 2.835073e-06 |
| 380 | YJR094C | YMR280C | 2.833007e-06 |
| 7770 | YDR216W | YDR523C | 2.803375e-06 |
| 9028 | YDL170W | YDL110C | 2.757057e-06 |
| 1355 | YKL112W | YAL054C | 2.744895e-06 |
| 6947 | YKL112W | YGL009C | 2.743455e-06 |
| 9641 | YJR094C | YJL153C | 2.740551e-06 |
| 149 | YGL254W | YKL112W | 2.727368e-06 |

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| 7342 | YMR280C | YOR302W | 2.700377e-06 |
| 3869 | YOR032C | YGR183C | 2.659605e-06 |
| 8735 | YMR280C | YLR258W | 2.656563e-06 |
| 2578 | YKL015W | YOR388C | 2.655979e-06 |
| 9773 | YDR043C | YKL040C | 2.650948e-06 |
| 6458 | YGL254W | YLR276C | 2.624911e-06 |
| 9537 | YKL112W | YHR216W | 2.618341e-06 |
| 418 | YMR280C | YER040W | 2.603506e-06 |
| 7771 | YOR032C | YDR523C | 2.569077e-06 |
| 3351 | YMR280C | YGL254W | 2.537092e-06 |
| 9539 | YGL254W | YHR216W | 2.521926e-06 |
| 8550 | YER040W | YOL014W | 2.459148e-06 |
| 2861 | YDR043C | YOR100C | 2.457407e-06 |
| 9971 | YJR094C | YKL062W | 2.426860e-06 |
| 1071 | YKL062W | YCR021C | 2.416800e-06 |
| 1072 | YGL254W | YCR021C | 2.415506e-06 |
| 753 | YDR216W | YML123C | 2.412266e-06 |
| 1536 | YMR280C | YOR348C | 2.397289e-06 |
| 6843 | YER040W | YKL015W | 2.388349e-06 |
| 621 | YDR216W | YNL036W | 2.387436e-06 |
| 1482 | YER040W | YFL014W | 2.376735e-06 |
| 4261 | YOR032C | YGR067C | 2.365293e-06 |
| 7453 | YOR032C | YNL270C | 2.355988e-06 |
| 8329 | YDL170W | YLR267W | 2.345593e-06 |
| 539 | YKL112W | YGR142W | 2.332661e-06 |
| 9974 | YBL103C | YKL062W | 2.328548e-06 |
| 3149 | YDR043C | YJR110W | 2.292513e-06 |
| 947 | YER040W | YDR171W | 2.264645e-06 |
| 8737 | YDR216W | YLR258W | 2.235055e-06 |
| 948 | YDR043C | YDR171W | 2.206772e-06 |
| 9451 | YGL254W | YOR032C | 2.190747e-06 |
| 1483 | YGL254W | YFL014W | 2.188471e-06 |
| 7251 | YJR094C | YLL033W | 2.187865e-06 |
| 7772 | YBL103C | YDR523C | 2.181965e-06 |
| 4341 | YGL254W | YPL265W | 2.180645e-06 |
| 4036 | YMR280C | YJR148W | 2.170412e-06 |
| 7157 | YBL103C | YDR361C | 2.162694e-06 |
| 2163 | YKL015W | YPL061W | 2.158359e-06 |
| 150 | YBL103C | YKL112W | 2.157105e-06 |
| 3045 | YMR280C | YNR046W | 2.157020e-06 |
| 4972 | YMR280C | YLR327C | 2.125996e-06 |
| 4660 | YDR043C | YJL063C | 2.122301e-06 |
| 6538 | YBL103C | YLR438W | 2.069954e-06 |
| 5958 | YDR216W | YNR028W | 2.053595e-06 |
| 1138 | YDR043C | YGR043C | 2.052446e-06 |

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| 3425 | YDL170W | YLR174W | 2.008937e-06 |
| 7862 | YGL254W | YPL036W | 1.993109e-06 |
| 9646 | YDL170W | YJL153C | 1.977620e-06 |
| 1966 | YDL170W | YDR384C | 1.969089e-06 |
| 544 | YDL170W | YGR142W | 1.894895e-06 |
| 860 | YOR032C | YHR136C | 1.893873e-06 |
| 243 | YKL112W | YDR216W | 1.849844e-06 |
| 9648 | YGL254W | YJL153C | 1.810807e-06 |
| 4444 | YDR043C | YKR056W | 1.807817e-06 |
| 1967 | YMR280C | YDR384C | 1.790257e-06 |
| 7253 | YMR280C | YLL033W | 1.787734e-06 |
| 8065 | YJR094C | YOR056C | 1.781800e-06 |
| 3936 | YBL103C | YER158C | 1.778938e-06 |
| 755 | YGL254W | YML123C | 1.770274e-06 |
| 4267 | YDR043C | YGR067C | 1.766114e-06 |
| 6244 | YDR216W | YKL071W | 1.753050e-06 |
| 2775 | YKL015W | YPL012W | 1.751222e-06 |
| 3937 | YKL112W | YER158C | 1.749050e-06 |
| 624 | YKL062W | YNL036W | 1.710514e-06 |
| 4344 | YKL015W | YPL265W | 1.667861e-06 |
| 1540 | YDR043C | YOR348C | 1.657474e-06 |
| 4559 | YKL112W | YCL064C | 1.648619e-06 |
| 5630 | YDR216W | YIL155C | 1.634800e-06 |
| 8462 | YKL062W | YHR029C | 1.629413e-06 |
| 7551 | YDR043C | YFR022W | 1.615094e-06 |
| 8557 | YKL112W | YOL014W | 1.610283e-06 |
| 8464 | YGL254W | YHR029C | 1.604953e-06 |
| 9362 | YOR032C | YGL229C | 1.603476e-06 |
| 1362 | YKL062W | YAL054C | 1.593880e-06 |
| 6171 | YKL112W | YDR258C | 1.585309e-06 |
| 9035 | YDR216W | YDL110C | 1.579954e-06 |
| 2170 | YDR043C | YPL061W | 1.563278e-06 |
| 6245 | YKL062W | YKL071W | 1.549785e-06 |
| 9175 | YMR280C | YER067W | 1.477988e-06 |
| 1082 | YOR032C | YCR021C | 1.477241e-06 |
| 3875 | YER040W | YGR183C | 1.442289e-06 |
| 5059 | YKL015W | YDL091C | 1.437434e-06 |
| 5632 | YKL062W | YIL155C | 1.433407e-06 |
| 2970 | YKL112W | YMR169C | 1.428194e-06 |
| 7463 | YGL254W | YNL270C | 1.426510e-06 |
| 864 | YDR216W | YHR136C | 1.411803e-06 |
| 5060 | YDL170W | YDL091C | 1.406422e-06 |
| 4667 | YER040W | YJL063C | 1.389297e-06 |
| 7554 | YDL170W | YFR022W | 1.388916e-06 |
| 7776 | YKL015W | YDR523C | 1.370463e-06 |

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| 1364 | YBL103C | YAL054C | 1.346004e-06 |
| 8072 | YER040W | YOR056C | 1.344296e-06 |
| 4148 | YDR043C | YNR064C | 1.342349e-06 |
| 2250 | YDL170W | YKR075C | 1.324519e-06 |
| 1736 | YDL170W | YBR054W | 1.313490e-06 |
| 2780 | YKL112W | YPL012W | 1.298412e-06 |
| 2362 | YKL112W | YLR009W | 1.291328e-06 |
| 4346 | YDR216W | YPL265W | 1.287961e-06 |
| 548 | YKL062W | YGR142W | 1.281227e-06 |
| 9466 | YJR094C | YOR032C | 1.276102e-06 |
| 9467 | YDL170W | YOR032C | 1.269964e-06 |
| 9546 | YER040W | YHR216W | 1.264038e-06 |
| 3357 | YBL103C | YGL254W | 1.263555e-06 |
| 9547 | YMR280C | YHR216W | 1.242194e-06 |
| 4561 | YBL103C | YCL064C | 1.241591e-06 |
| 4981 | YDR043C | YLR327C | 1.240844e-06 |
| 5228 | YKL015W | YHL028W | 1.239132e-06 |
| 1085 | YDR216W | YCR021C | 1.237335e-06 |
| 9779 | YJR094C | YKL040C | 1.230766e-06 |
| 2363 | YER040W | YLR009W | 1.229627e-06 |
| 549 | YOR032C | YGR142W | 1.216262e-06 |
| 761 | YKL015W | YML123C | 1.201315e-06 |
| 6680 | YKL062W | YNL037C | 1.199350e-06 |
| 6248 | YJR094C | YKL071W | 1.176498e-06 |
| 2676 | YOR032C | YJL172W | 1.164790e-06 |
| 1972 | YDR043C | YDR384C | 1.148392e-06 |
| 4448 | YER040W | YKR056W | 1.141432e-06 |
| 9233 | YMR280C | YLR178C | 1.132936e-06 |
| 1369 | YOR032C | YAL054C | 1.124635e-06 |
| 7363 | YGL254W | YOR302W | 1.118812e-06 |
| 9863 | YMR280C | YHR087W | 1.116292e-06 |
| 1144 | YKL112W | YGR043C | 1.112887e-06 |
| 6682 | YER040W | YNL037C | 1.111894e-06 |
| 2173 | YKL062W | YPL061W | 1.101458e-06 |
| 4348 | YDL170W | YPL265W | 1.094165e-06 |
| 4984 | YOR032C | YLR327C | 1.069947e-06 |
| 3364 | YOR032C | YGL254W | 1.048031e-06 |
| 1672 | YMR280C | YDL170W | 1.041926e-06 |
| 9039 | YMR280C | YDL110C | 1.041197e-06 |
| 6542 | YER040W | YLR438W | 1.040094e-06 |
| 9982 | YER040W | YKL062W | 1.034413e-06 |
| 9983 | YDL170W | YKL062W | 1.032724e-06 |
| 2878 | YKL015W | YOR100C | 1.031000e-06 |
| 1868 | YJR094C | YCR010C | 1.030673e-06 |
| 956 | YMR280C | YDR171W | 1.029089e-06 |

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| 1550 | YGL254W | YOR348C | 1.027904e-06 |
| 9783 | YMR280C | YKL040C | 1.015636e-06 |
| 2684 | YGL254W | YJL172W | 1.008334e-06 |
| 9182 | YJR094C | YER067W | 9.999383e-07 |
| 5134 | YDR043C | YHR051W | 9.971306e-07 |
| 3053 | YER040W | YNR046W | 9.909783e-07 |
| 3753 | YDR216W | YIL136W | 9.857975e-07 |
| 7650 | YMR280C | YAL062W | 9.848851e-07 |
| 1145 | YDR216W | YGR043C | 9.804780e-07 |
| 8470 | YDR043C | YHR029C | 9.783838e-07 |
| 869 | YJR094C | YHR136C | 9.761009e-07 |
| 2685 | YKL015W | YJL172W | 9.650616e-07 |
| 5880 | YBL103C | YLL011W | 9.559111e-07 |
| 7165 | YGL254W | YDR361C | 9.317072e-07 |
| 3754 | YMR280C | YIL136W | 9.135168e-07 |
| 2177 | YMR280C | YPL061W | 8.869984e-07 |
| 630 | YKL112W | YNL036W | 8.823280e-07 |
| 3241 | YKL112W | YMR193W | 8.810514e-07 |
| 5639 | YKL112W | YIL155C | 8.776311e-07 |
| 7166 | YDL170W | YDR361C | 8.761235e-07 |
| 8472 | YMR280C | YHR029C | 8.759649e-07 |
| 7167 | YKL015W | YDR361C | 8.682706e-07 |
| 7365 | YDR043C | YOR302W | 8.664523e-07 |
| 5973 | YMR280C | YNR028W | 8.639333e-07 |
| 2431 | YBL103C | YPL111W | 8.596605e-07 |
| 4991 | YJR094C | YLR327C | 8.580287e-07 |
| 8268 | YKL015W | YLR130C | 8.561111e-07 |
| 6255 | YKL112W | YKL071W | 8.486958e-07 |
| 4856 | YKL015W | YIL037C | 8.468379e-07 |
| 7561 | YKL062W | YFR022W | 8.416769e-07 |
| 9985 | YGL254W | YKL062W | 8.364092e-07 |
| 6256 | YGL254W | YKL071W | 8.352567e-07 |
| 4045 | YER040W | YJR148W | 8.338371e-07 |
| 6961 | YER040W | YGL009C | 8.316683e-07 |
| 7260 | YGL254W | YLL033W | 8.290746e-07 |
| 9661 | YBL103C | YJL153C | 8.286573e-07 |
| 4352 | YDR043C | YPL265W | 8.229360e-07 |
| 6031 | YBL103C | YDR043C | 8.191253e-07 |
| 9043 | YGL254W | YDL110C | 8.165860e-07 |
| 7654 | YDL170W | YAL062W | 8.165204e-07 |
| 8270 | YDR043C | YLR130C | 8.090509e-07 |
| 6032 | YER040W | YDR043C | 8.042436e-07 |
| 7263 | YDR216W | YLL033W | 7.994614e-07 |
| 5975 | YDR043C | YNR028W | 7.923494e-07 |
| 2786 | YDL170W | YPL012W | 7.880993e-07 |

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| 5348 | YKL015W | YMR229C | 7.879052e-07 |
| 3947 | YMR280C | YER158C | 7.858503e-07 |
| 1093 | YJR094C | YCR021C | 7.836278e-07 |
| 4857 | YER040W | YIL037C | 7.781892e-07 |
| 1149 | YER040W | YGR043C | 7.764863e-07 |
| 2787 | YDR216W | YPL012W | 7.691461e-07 |
| 9477 | YDR216W | YOR032C | 7.679790e-07 |
| 2788 | YER040W | YPL012W | 7.669801e-07 |
| 4279 | YGL254W | YGR067C | 7.661517e-07 |
| 4047 | YDL170W | YJR148W | 7.489216e-07 |
| 7883 | YDR216W | YPL036W | 7.387493e-07 |
| 169 | YDR216W | YKL112W | 7.366588e-07 |
| 5642 | YMR280C | YIL155C | 7.361374e-07 |
| 6965 | YJR094C | YGL009C | 7.361006e-07 |
| 9557 | YKL062W | YHR216W | 7.351072e-07 |
| 247 | YMR280C | YDR216W | 7.329538e-07 |
| 3884 | YDL170W | YGR183C | 7.305360e-07 |
| 1151 | YGL254W | YGR043C | 7.266207e-07 |
| 4456 | YGL254W | YKR056W | 7.195516e-07 |
| 3171 | YDR216W | YJR110W | 7.138000e-07 |
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| 1680 | YGL254W | YDL170W | 6.693954e-07 |
| 7373 | YKL062W | YOR302W | 6.677960e-07 |
| 8077 | YDL170W | YOR056C | 6.658879e-07 |
| 4160 | YOR032C | YNR064C | 6.650012e-07 |
| 2186 | YOR032C | YPL061W | 6.625361e-07 |
| 3886 | YBL103C | YGR183C | 6.597691e-07 |
| 772 | YER040W | YML123C | 6.541292e-07 |
| 3057 | YKL112W | YNR046W | 6.503307e-07 |
| 170 | YKL015W | YKL112W | 6.432367e-07 |
| 8567 | YGL254W | YOL014W | 6.424376e-07 |
| 171 | YMR280C | YKL112W | 6.413236e-07 |
| 1681 | YJR094C | YDL170W | 6.360728e-07 |
| 6970 | YBL103C | YGL009C | 6.325340e-07 |
| 8569 | YKL015W | YOL014W | 6.323808e-07 |
| 3175 | YKL062W | YJR110W | 6.300661e-07 |
| 7660 | YDR043C | YAL062W | 6.185747e-07 |
| 427 | YBL103C | YER040W | 6.169015e-07 |
| 2793 | YGL254W | YPL012W | 5.990736e-07 |
| 1876 | YMR280C | YCR010C | 5.978319e-07 |

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| 4580 | YGL254W | YCL064C | 5.973382e-07 |
| 8278 | YJR094C | YLR130C | 5.940737e-07 |
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| 8141 | YDR216W | YBL042C | 5.714690e-07 |
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| 5071 | YER040W | YDL091C | 5.683241e-07 |
| 1385 | YKL015W | YAL054C | 5.678535e-07 |
| 8078 | YDR216W | YOR056C | 5.630600e-07 |
| 8573 | YDR043C | YOL014W | 5.625008e-07 |
| 4865 | YBL103C | YIL037C | 5.614932e-07 |
| 8079 | YKL015W | YOR056C | 5.599475e-07 |
| 881 | YKL112W | YHR136C | 5.596740e-07 |
| 9049 | YER040W | YDL110C | 5.589546e-07 |
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| 6549 | YMR280C | YLR438W | 5.550476e-07 |
| 8574 | YDR216W | YOL014W | 5.432053e-07 |
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| 4867 | YDR216W | YIL037C | 5.297112e-07 |
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| 1743 | YDR216W | YBR054W | 5.238594e-07 |
| 7383 | YDR216W | YOR302W | 5.237570e-07 |
| 8483 | YKL015W | YHR029C | 5.236999e-07 |
| 1685 | YDR216W | YDL170W | 5.192202e-07 |
| 5981 | YKL062W | YNR028W | 5.162115e-07 |
| 8575 | YJR094C | YOL014W | 5.118661e-07 |
| 3888 | YDR216W | YGR183C | 5.107006e-07 |
| 6980 | YDR216W | YGL009C | 5.106374e-07 |
| 5236 | YOR032C | YHL028W | 5.081974e-07 |
| 3180 | YOR032C | YJR110W | 5.080778e-07 |
| 8143 | YMR280C | YBL042C | 5.073792e-07 |
| 8484 | YJR094C | YHR029C | 5.034021e-07 |
| 884 | YER040W | YHR136C | 5.021893e-07 |
| 3181 | YMR280C | YJR110W | 4.998641e-07 |
| 6982 | YDL170W | YGL009C | 4.970752e-07 |
| 6983 | YKL015W | YGL009C | 4.964949e-07 |
| 7488 | YJR094C | YNL270C | 4.962869e-07 |
| 964 | YKL112W | YDR171W | 4.947203e-07 |
| 7790 | YJR094C | YDR523C | 4.920074e-07 |
| 431 | YKL062W | YER040W | 4.895102e-07 |
| 8280 | YOR032C | YLR130C | 4.781167e-07 |

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| 4767 | YMR280C | YDL160C | 4.769419e-07 |
| 6787 | YDR216W | YKR009C | 4.766632e-07 |
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| 8751 | YKL112W | YLR258W | 4.740989e-07 |
| 5882 | YOR032C | YLL011W | 4.713644e-07 |
| 2260 | YBL103C | YKR075C | 4.684034e-07 |
| 6788 | YKL015W | YKR009C | 4.643860e-07 |
| 780 | YKL112W | YML123C | 4.601309e-07 |
| 6882 | YGL254W | YKL015W | 4.552744e-07 |
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| 8841 | YMR280C | YDR380W | 4.485931e-07 |
| 781 | YOR032C | YML123C | 4.472986e-07 |
| 2261 | YOR032C | YKR075C | 4.466655e-07 |
| 3761 | YDR043C | YIL136W | 4.448584e-07 |
| 5883 | YDR216W | YLL011W | 4.434138e-07 |
| 7793 | YGL254W | YDR523C | 4.390647e-07 |
| 432 | YOR032C | YER040W | 4.352617e-07 |
| 6792 | YOR032C | YKR009C | 4.344212e-07 |
| 7579 | YGL254W | YFR022W | 4.316667e-07 |
| 4172 | YKL062W | YNR064C | 4.288806e-07 |
| 2796 | YJR094C | YPL012W | 4.265350e-07 |
| 6986 | YOR032C | YGL009C | 4.258122e-07 |
| 8931 | YMR280C | YLL034C | 4.248749e-07 |
| 9671 | YOR032C | YJL153C | 4.238481e-07 |
| 7280 | YKL062W | YLL033W | 4.176545e-07 |
| 9374 | YGL254W | YGL229C | 4.149649e-07 |
| 4289 | YKL015W | YGR067C | 4.148525e-07 |
| 7181 | YJR094C | YDR361C | 4.097223e-07 |
| 2888 | YGL254W | YOR100C | 4.081420e-07 |
| 1744 | YBL103C | YBR054W | 4.029918e-07 |
| 6795 | YGL254W | YKR009C | 4.005733e-07 |
| 7282 | YKL015W | YLL033W | 3.980712e-07 |
| 888 | YDL170W | YHR136C | 3.887055e-07 |
| 6187 | YJR094C | YDR258C | 3.883281e-07 |
| 7045 | YMR280C | YPR002W | 3.823072e-07 |
| 6887 | YDR216W | YKL015W | 3.821312e-07 |
| 889 | YBL103C | YHR136C | 3.793572e-07 |
| 9875 | YOR032C | YHR087W | 3.790158e-07 |
| 5991 | YJR094C | YNR028W | 3.767127e-07 |
| 2196 | YDR216W | YPL061W | 3.761245e-07 |
| 6992 | YGL254W | YGL009C | 3.735109e-07 |
| 6337 | YDL170W | YNL194C | 3.729228e-07 |
| 3393 | YDR216W | YGL254W | 3.724096e-07 |
| 2058 | YDR216W | YER150W | 3.672922e-07 |
| 6889 | YJR094C | YKL015W | 3.616828e-07 |

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| 8762 | YJR094C | YLR258W | 3.615510e-07 |
| 9056 | YKL015W | YDL110C | 3.609496e-07 |
| 1987 | YOR032C | YDR384C | 3.586172e-07 |
| 5890 | YJR094C | YLL011W | 3.581117e-07 |
| 2197 | YJR094C | YPL061W | 3.537643e-07 |
| 4590 | YKL015W | YCL064C | 3.519563e-07 |
| 8088 | YBL103C | YOR056C | 3.479142e-07 |
| 6484 | YBL103C | YLR276C | 3.442676e-07 |
| 3893 | YJR094C | YGR183C | 3.421678e-07 |
| 7586 | YJR094C | YFR022W | 3.390082e-07 |
| 6696 | YGL254W | YNL037C | 3.369853e-07 |
| 5648 | YDR043C | YIL155C | 3.354674e-07 |
| 4058 | YBL103C | YJR148W | 3.334640e-07 |
| 3444 | YKL062W | YLR174W | 3.327381e-07 |
| 4591 | YOR032C | YCL064C | 3.298702e-07 |
| 1161 | YJR094C | YGR043C | 3.293227e-07 |
| 4592 | YDR216W | YCL064C | 3.292035e-07 |
| 7392 | YKL015W | YOR302W | 3.283913e-07 |
| 3894 | YGL254W | YGR183C | 3.276725e-07 |
| 3952 | YDL170W | YER158C | 3.269552e-07 |
| 4777 | YKL062W | YDL160C | 3.264302e-07 |
| 9376 | YJR094C | YGL229C | 3.254555e-07 |
| 2993 | YJR094C | YMR169C | 3.244753e-07 |
| 4680 | YKL015W | YJL063C | 3.219492e-07 |
| 7587 | YDR216W | YFR022W | 3.217649e-07 |
| 2061 | YMR280C | YER150W | 3.207887e-07 |
| 7588 | YKL015W | YFR022W | 3.179528e-07 |
| 3191 | YJR094C | YJR110W | 3.130935e-07 |
| 8492 | YOR032C | YHR029C | 3.127845e-07 |
| 6191 | YDL170W | YDR258C | 3.109435e-07 |
| 5355 | YDL170W | YMR229C | 3.104245e-07 |
| 8583 | YDL170W | YOL014W | 3.100253e-07 |
| 9248 | YBL103C | YLR178C | 3.097832e-07 |
| 5756 | YBL103C | YJL088W | 3.096002e-07 |
| 6697 | YJR094C | YNL037C | 3.086074e-07 |
| 5356 | YDR043C | YMR229C | 3.039653e-07 |
| 5995 | YOR032C | YNR028W | 3.036747e-07 |
| 8765 | YGL254W | YLR258W | 3.024801e-07 |
| 565 | YGL254W | YGR142W | 3.020875e-07 |
| 4190 | YGL254W | YNR064C | 3.013679e-07 |
| 2891 | YJR094C | YOR100C | 3.007617e-07 |
| 8766 | YDL170W | YLR258W | 2.984309e-07 |
| 1747 | YMR280C | YBR054W | 2.971727e-07 |
| 4779 | YGL254W | YDL160C | 2.961868e-07 |
| 4370 | YOR032C | YPL265W | 2.961623e-07 |

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| 2996 | YGL254W | YMR169C | 2.958872e-07 |
| 1991 | YKL015W | YDR384C | 2.958298e-07 |
| 6555 | YDL170W | YLR438W | 2.924751e-07 |
| 7394 | YOR032C | YOR302W | 2.898420e-07 |
| 3070 | YDR216W | YNR046W | 2.884668e-07 |
| 9379 | YDL170W | YGL229C | 2.876939e-07 |
| 4683 | YJR094C | YJL063C | 2.863136e-07 |
| 1992 | YGL254W | YDR384C | 2.825300e-07 |
| 1889 | YOR032C | YCR010C | 2.804243e-07 |
| 7190 | YDR216W | YDR361C | 2.792746e-07 |
| 5760 | YDR043C | YJL088W | 2.790037e-07 |
| 1691 | YKL015W | YDL170W | 2.758108e-07 |
| 3396 | YJR094C | YGL254W | 2.740896e-07 |
| 4061 | YDR043C | YJR148W | 2.724680e-07 |
| 6798 | YJR094C | YKR009C | 2.702662e-07 |
| 4886 | YJR094C | YIL037C | 2.690251e-07 |
| 9249 | YJR094C | YLR178C | 2.670478e-07 |
| 6698 | YOR032C | YNL037C | 2.669472e-07 |
| 9877 | YGL254W | YHR087W | 2.651968e-07 |
| 1749 | YJR094C | YBR054W | 2.649163e-07 |
| 5649 | YOR032C | YIL155C | 2.647059e-07 |
| 4295 | YJR094C | YGR067C | 2.640644e-07 |
| 8496 | YDR216W | YHR029C | 2.626843e-07 |
| 8590 | YBL103C | YOL014W | 2.615476e-07 |
| 4888 | YGL254W | YIL037C | 2.591776e-07 |
| 4889 | YOR032C | YIL037C | 2.590316e-07 |
| 4685 | YOR032C | YJL063C | 2.589502e-07 |
| 5650 | YBL103C | YIL155C | 2.560221e-07 |
| 4780 | YOR032C | YDL160C | 2.526065e-07 |
| 6196 | YGL254W | YDR258C | 2.519042e-07 |
| 5457 | YDR216W | YOR206W | 2.515054e-07 |
| 3449 | YBL103C | YLR174W | 2.514381e-07 |
| 2696 | YDR216W | YJL172W | 2.492930e-07 |
| 6558 | YDR043C | YLR438W | 2.492428e-07 |
| 7396 | YJR094C | YOR302W | 2.490805e-07 |
| 8773 | YDR043C | YLR258W | 2.486179e-07 |
| 197 | YJR094C | YKL112W | 2.478300e-07 |
| 2384 | YDR216W | YLR009W | 2.461493e-07 |
| 8349 | YER040W | YLR267W | 2.413679e-07 |
| 3197 | YKL015W | YJR110W | 2.393831e-07 |
| 4063 | YJR094C | YJR148W | 2.390413e-07 |
| 5242 | YDR216W | YHL028W | 2.355627e-07 |
| 5458 | YOR032C | YOR206W | 2.355047e-07 |
| 3074 | YOR032C | YNR046W | 2.338360e-07 |
| 6197 | YOR032C | YDR258C | 2.335031e-07 |

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| 3252 | YDR216W | YMR193W | 2.304392e-07 |
| 573 | YMR280C | YGR142W | 2.302145e-07 |
| 8350 | YMR280C | YLR267W | 2.280940e-07 |
| 9682 | YKL015W | YJL153C | 2.231007e-07 |
| 1751 | YKL015W | YBR054W | 2.224510e-07 |
| 9571 | YJR094C | YHR216W | 2.213469e-07 |
| 792 | YDL170W | YML123C | 2.193569e-07 |
| 793 | YBL103C | YML123C | 2.191418e-07 |
| 5360 | YKL062W | YMR229C | 2.178292e-07 |
| 5361 | YMR280C | YMR229C | 2.171349e-07 |
| 7671 | YBL103C | YAL062W | 2.164409e-07 |
| 2389 | YKL015W | YLR009W | 2.139381e-07 |
| 6342 | YER040W | YNL194C | 2.137419e-07 |
| 9879 | YDR043C | YHR087W | 2.093988e-07 |
| 2391 | YOR032C | YLR009W | 2.083739e-07 |
| 5080 | YBL103C | YDL091C | 2.060509e-07 |
| 5243 | YER040W | YHL028W | 2.059984e-07 |
| 9880 | YER040W | YHR087W | 2.000043e-07 |
| 6492 | YOR032C | YLR276C | 1.947101e-07 |
| 2697 | YJR094C | YJL172W | 1.921034e-07 |
| 4196 | YDR216W | YNR064C | 1.920942e-07 |
| 797 | YJR094C | YML123C | 1.900796e-07 |
| 7194 | YOR032C | YDR361C | 1.849657e-07 |
| 5362 | YOR032C | YMR229C | 1.833765e-07 |
| 1397 | YJR094C | YAL054C | 1.831215e-07 |
| 4198 | YJR094C | YNR064C | 1.823237e-07 |
| 6047 | YDL170W | YDR043C | 1.816037e-07 |
| 1569 | YJR094C | YOR348C | 1.813984e-07 |
| 4470 | YDL170W | YKR056W | 1.795745e-07 |
| 8596 | YOR032C | YOL014W | 1.795322e-07 |
| 8094 | YOR032C | YOR056C | 1.788916e-07 |
| 4784 | YJR094C | YDL160C | 1.777701e-07 |
| 2441 | YER040W | YPL111W | 1.767883e-07 |
| 8856 | YKL112W | YDR380W | 1.766264e-07 |
| 2442 | YDL170W | YPL111W | 1.739175e-07 |
| 2443 | YJR094C | YPL111W | 1.731046e-07 |
| 1997 | YDR216W | YDR384C | 1.728369e-07 |
| 438 | YKL112W | YER040W | 1.726597e-07 |
| 8632 | YKL062W | YNR053C | 1.726104e-07 |
| 8096 | YGL254W | YOR056C | 1.716742e-07 |
| 1570 | YER040W | YOR348C | 1.713056e-07 |
| 3076 | YGL254W | YNR046W | 1.705496e-07 |
| 978 | YGL254W | YDR171W | 1.668875e-07 |
| 2066 | YGL254W | YER150W | 1.667044e-07 |
| 1572 | YKL112W | YOR348C | 1.609744e-07 |

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| 8353 | YGL254W | YLR267W | 1.587609e-07 |
| 4072 | YKL062W | YJR148W | 1.583843e-07 |
| 2274 | YDR216W | YKR075C | 1.583642e-07 |
| 5467 | YBL103C | YOR206W | 1.540753e-07 |
| 1245 | YKL112W | YHR018C | 1.535501e-07 |
| 6344 | YMR280C | YNL194C | 1.528917e-07 |
| 3960 | YER040W | YER158C | 1.519059e-07 |
| 1998 | YJR094C | YDR384C | 1.507027e-07 |
| 9883 | YBL103C | YHR087W | 1.455193e-07 |
| 274 | YOR032C | YDR216W | 1.452130e-07 |
| 4792 | YKL015W | YDL160C | 1.438340e-07 |
| 2277 | YGL254W | YKR075C | 1.437970e-07 |
| 1246 | YDL170W | YHR018C | 1.433464e-07 |
| 1247 | YOR032C | YHR018C | 1.420782e-07 |
| 5770 | YOR032C | YJL088W | 1.357260e-07 |
| 2397 | YGL254W | YLR009W | 1.356856e-07 |
| 8159 | YKL015W | YBL042C | 1.335370e-07 |
| 2398 | YJR094C | YLR009W | 1.326562e-07 |
| 6345 | YOR032C | YNL194C | 1.322515e-07 |
| 7053 | YDR216W | YPR002W | 1.279618e-07 |
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| 6500 | YJR094C | YLR276C | 1.237329e-07 |
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| 3256 | YMR280C | YMR193W | 1.226089e-07 |
| 587 | YDR216W | YGR142W | 1.222716e-07 |
| 6346 | YDR216W | YNL194C | 1.216007e-07 |
| 278 | YDR043C | YDR216W | 1.180717e-07 |
| 5473 | YKL112W | YOR206W | 1.178267e-07 |
| 5775 | YJR094C | YJL088W | 1.144011e-07 |
| 5150 | YOR032C | YHR051W | 1.134171e-07 |
| 589 | YJR094C | YGR142W | 1.129812e-07 |
| 8636 | YKL112W | YNR053C | 1.105646e-07 |
| 5249 | YBL103C | YHL028W | 1.093626e-07 |
| 282 | YJR094C | YDR216W | 1.066920e-07 |
| 4082 | YKL015W | YJR148W | 1.055341e-07 |
| 1181 | YKL015W | YGR043C | 1.046240e-07 |
| 9578 | YDL170W | YHR216W | 1.034528e-07 |
| 8867 | YDL170W | YDR380W | 1.024931e-07 |
| 655 | YOR032C | YNL036W | 1.008842e-07 |
| 5781 | YMR280C | YJL088W | 9.798656e-08 |
| 5154 | YKL112W | YHR051W | 9.785475e-08 |
| 5782 | YGL254W | YJL088W | 9.710270e-08 |
| 7058 | YKL015W | YPR002W | 9.284758e-08 |
| 8791 | YOR032C | YLR258W | 9.224313e-08 |
| 594 | YKL015W | YGR142W | 9.173766e-08 |

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| 3090 | YJR094C | YNR046W | 9.030254e-08 |
| 4478 | YBL103C | YKR056W | 8.809370e-08 |
| 985 | YJR094C | YDR171W | 8.737277e-08 |
| 657 | YBL103C | YNL036W | 8.660454e-08 |
| 3461 | YER040W | YLR174W | 8.590534e-08 |
| 4088 | YGL254W | YJR148W | 8.359196e-08 |
| 3261 | YER040W | YMR193W | 8.144738e-08 |
| 8870 | YBL103C | YDR380W | 7.782381e-08 |
| 7687 | YKL015W | YAL062W | 7.654164e-08 |
| 7688 | YOR032C | YAL062W | 7.389701e-08 |
| 9266 | YDR043C | YLR178C | 7.364270e-08 |
| 4481 | YOR032C | YKR056W | 7.055061e-08 |
| 4482 | YKL015W | YKR056W | 7.016066e-08 |
| 3098 | YKL015W | YNR046W | 6.992371e-08 |
| 5481 | YDL170W | YOR206W | 6.966028e-08 |
| 3464 | YOR032C | YLR174W | 6.930614e-08 |
| 5482 | YER040W | YOR206W | 6.868510e-08 |
| 5090 | YJR094C | YDL091C | 6.839440e-08 |
| 3465 | YGL254W | YLR174W | 6.782377e-08 |
| 2285 | YJR094C | YKR075C | 6.752586e-08 |
| 8874 | YOR032C | YDR380W | 6.652638e-08 |
| 5666 | YDL170W | YIL155C | 6.637913e-08 |
| 9269 | YKL112W | YLR178C | 6.612156e-08 |
| 3645 | YDR043C | YDL018C | 6.604682e-08 |
| 5374 | YBL103C | YMR229C | 6.362157e-08 |
| 3779 | YJR094C | YIL136W | 6.252483e-08 |
| 9890 | YKL112W | YHR087W | 6.215972e-08 |
| 2072 | YDR043C | YER150W | 6.178454e-08 |
| 9891 | YJR094C | YHR087W | 6.159361e-08 |
| 5091 | YDR216W | YDL091C | 6.084416e-08 |
| 658 | YDL170W | YNL036W | 5.918942e-08 |
| 659 | YER040W | YNL036W | 5.891908e-08 |
| 1258 | YDR043C | YHR018C | 5.670279e-08 |
| 3469 | YKL015W | YLR174W | 5.463119e-08 |
| 5092 | YGL254W | YDL091C | 5.443634e-08 |
| 3470 | YKL112W | YLR174W | 5.378642e-08 |
| 2076 | YOR032C | YER150W | 4.948199e-08 |
| 8796 | YER040W | YLR258W | 4.891328e-08 |
| 1769 | YKL062W | YBR054W | 4.859406e-08 |
| 3980 | YJR094C | YER158C | 4.572064e-08 |
| 7694 | YJR094C | YAL062W | 4.496336e-08 |
| 8649 | YMR280C | YNR053C | 4.490586e-08 |
| 4095 | YDR216W | YJR148W | 4.453732e-08 |
| 7068 | YDR043C | YPR002W | 4.398260e-08 |
| 2291 | YKL015W | YKR075C | 4.288657e-08 |

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| 4485 | YJR094C | YKR056W | 4.274261e-08 |
| 4398 | YJR094C | YPL265W | 4.263128e-08 |
| 3784 | YGL254W | YIL136W | 4.173601e-08 |
| 5678 | YJR094C | YIL155C | 4.062722e-08 |
| 7695 | YDR216W | YAL062W | 3.975500e-08 |
| 5792 | YKL015W | YJL088W | 3.912847e-08 |
| 5257 | YKL112W | YHL028W | 3.819907e-08 |
| 5679 | YER040W | YIL155C | 3.699628e-08 |
| 8171 | YKL062W | YBL042C | 3.641969e-08 |
| 1262 | YMR280C | YHR018C | 3.501455e-08 |
| 5165 | YER040W | YHR051W | 3.475488e-08 |
| 5493 | YKL015W | YOR206W | 3.316992e-08 |
| 5167 | YDL170W | YHR051W | 3.160903e-08 |
| 5258 | YDL170W | YHL028W | 3.132570e-08 |
| 3274 | YDL170W | YMR193W | 3.127197e-08 |
| 5495 | YGL254W | YOR206W | 2.933707e-08 |
| 3275 | YBL103C | YMR193W | 2.901609e-08 |
| 3276 | YOR032C | YMR193W | 2.894428e-08 |
| 3983 | YGL254W | YER158C | 2.875559e-08 |
| 8177 | YDL170W | YBL042C | 2.751032e-08 |
| 8798 | YBL103C | YLR258W | 2.741625e-08 |
| 8178 | YBL103C | YBL042C | 2.737797e-08 |
| 5266 | YGL254W | YHL028W | 2.470341e-08 |
| 8181 | YGL254W | YBL042C | 2.465432e-08 |
| 6062 | YGL254W | YDR043C | 2.352904e-08 |
| 7081 | YKL062W | YPR002W | 2.265495e-08 |
| 5498 | YJR094C | YOR206W | 2.255399e-08 |
| 1268 | YKL015W | YHR018C | 2.214708e-08 |
| 9087 | YKL112W | YDL110C | 2.177746e-08 |
| 8893 | YKL015W | YDR380W | 2.176031e-08 |
| 2085 | YJR094C | YER150W | 2.169187e-08 |
| 5391 | YJR094C | YMR229C | 2.071793e-08 |
| 5392 | YGL254W | YMR229C | 2.065439e-08 |
| 5176 | YKL015W | YHR051W | 1.951626e-08 |
| 5177 | YDR216W | YHR051W | 1.936570e-08 |
| 9286 | YDR216W | YLR178C | 1.933329e-08 |
| 3988 | YDR216W | YER158C | 1.929950e-08 |
| 5179 | YBL103C | YHR051W | 1.898659e-08 |
| 1776 | YKL112W | YBR054W | 1.877532e-08 |
| 6366 | YKL112W | YNL194C | 1.860593e-08 |
| 9289 | YOR032C | YLR178C | 1.681573e-08 |
| 3490 | YJR094C | YLR174W | 1.640825e-08 |
| 7085 | YOR032C | YPR002W | 1.638367e-08 |
| 998 | YOR032C | YDR171W | 1.567563e-08 |
| 9088 | YJR094C | YDL110C | 1.554840e-08 |

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| 1780 | YDR043C | YBR054W | 1.552947e-08 |
| 1276 | YDR216W | YHR018C | 1.531931e-08 |
| 3563 | YER040W | YER002W | 1.429458e-08 |
| 8895 | YGL254W | YDR380W | 1.421348e-08 |
| 8376 | YDR216W | YLR267W | 1.419710e-08 |
| 8966 | YKL112W | YLL034C | 1.384586e-08 |
| 6074 | YMR280C | YDR043C | 1.375462e-08 |
| 8896 | YDR216W | YDR380W | 1.361437e-08 |
| 5398 | YDR216W | YMR229C | 1.334220e-08 |
| 8898 | YJR094C | YDR380W | 1.329575e-08 |
| 8659 | YJR094C | YNR053C | 1.312783e-08 |
| 3662 | YKL112W | YDL018C | 1.307774e-08 |
| 8377 | YOR032C | YLR267W | 1.286995e-08 |
| 8967 | YOR032C | YLL034C | 1.281572e-08 |
| 8192 | YER040W | YBL042C | 1.246717e-08 |
| 3564 | YKL112W | YER002W | 1.233222e-08 |
| 5187 | YGL254W | YHR051W | 1.223427e-08 |
| 8381 | YJR094C | YLR267W | 1.211546e-08 |
| 3663 | YER040W | YDL018C | 1.209428e-08 |
| 6585 | YKL015W | YLR438W | 1.195342e-08 |
| 475 | YDR216W | YER040W | 1.195278e-08 |
| 8662 | YOR032C | YNR053C | 1.144617e-08 |
| 3665 | YBL103C | YDL018C | 1.132389e-08 |
| 9291 | YGL254W | YLR178C | 1.124196e-08 |
| 6586 | YDR216W | YLR438W | 1.123959e-08 |
| 3567 | YOR032C | YER002W | 1.115111e-08 |
| 2092 | YKL112W | YER150W | 1.104225e-08 |
| 7092 | YGL254W | YPR002W | 1.094152e-08 |
| 8663 | YDL170W | YNR053C | 1.090977e-08 |
| 3667 | YKL062W | YDL018C | 1.083190e-08 |
| 8970 | YBL103C | YLL034C | 1.058461e-08 |
| 7093 | YJR094C | YPR002W | 1.004977e-08 |
| 3570 | YKL015W | YER002W | 9.790809e-09 |
| 5693 | YGL254W | YIL155C | 9.617025e-09 |
| 6588 | YGL254W | YLR438W | 9.403447e-09 |
| 3670 | YMR280C | YDL018C | 9.335947e-09 |
| 8387 | YKL015W | YLR267W | 8.984958e-09 |
| 8972 | YJR094C | YLL034C | 8.943581e-09 |
| 6591 | YOR032C | YLR438W | 8.605294e-09 |
| 692 | YKL015W | YNL036W | 8.431043e-09 |
| 2472 | YMR280C | YPL111W | 7.946891e-09 |
| 1791 | YOR032C | YBR054W | 7.832869e-09 |
| 480 | YGL254W | YER040W | 7.808352e-09 |
| 693 | YGL254W | YNL036W | 7.627300e-09 |
| 481 | YJR094C | YER040W | 7.611104e-09 |

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|------|---------|---------|--------------|
| 5190 | YJR094C | YHR051W | 7.511666e-09 |
| 3288 | YJR094C | YMR193W | 7.378486e-09 |
| 8668 | YER040W | YNR053C | 7.309328e-09 |
| 5284 | YJR094C | YHL028W | 7.292478e-09 |
| 3289 | YKL015W | YMR193W | 7.229978e-09 |
| 8391 | YKL062W | YLR267W | 7.151841e-09 |
| 489 | YKL015W | YER040W | 6.583925e-09 |
| 2477 | YGL254W | YPL111W | 6.048505e-09 |
| 6380 | YBL103C | YNL194C | 5.999192e-09 |
| 6381 | YDR043C | YNL194C | 5.560139e-09 |
| 8978 | YKL015W | YLL034C | 5.409282e-09 |
| 696 | YJR094C | YNL036W | 5.273858e-09 |
| 3676 | YDL170W | YDL018C | 5.135293e-09 |
| 8672 | YGL254W | YNR053C | 4.714647e-09 |
| 1294 | YGL254W | YHR018C | 4.640672e-09 |
| 2484 | YDR216W | YPL111W | 4.509132e-09 |
| 8983 | YER040W | YLL034C | 4.129122e-09 |
| 3683 | YKL015W | YDL018C | 4.087688e-09 |
| 6088 | YJR094C | YDR043C | 3.851574e-09 |
| 8986 | YDL170W | YLL034C | 3.750259e-09 |
| 6598 | YJR094C | YLR438W | 3.652877e-09 |
| 1297 | YJR094C | YHR018C | 3.601686e-09 |
| 3580 | YDL170W | YER002W | 3.519412e-09 |
| 2489 | YKL015W | YPL111W | 3.388154e-09 |
| 3581 | YBL103C | YER002W | 3.267304e-09 |
| 8681 | YBL103C | YNR053C | 2.937690e-09 |
| 2490 | YOR032C | YPL111W | 2.889436e-09 |
| 3689 | YJR094C | YDL018C | 2.758185e-09 |
| 3583 | YJR094C | YER002W | 2.697805e-09 |
| 3691 | YOR032C | YDL018C | 2.502677e-09 |
| 3692 | YDR216W | YDL018C | 2.498999e-09 |
| 6091 | YDR216W | YDR043C | 2.445018e-09 |
| 3589 | YDR216W | YER002W | 2.032706e-09 |
| 8690 | YKL015W | YNR053C | 1.967438e-09 |
| 3696 | YGL254W | YDL018C | 1.820362e-09 |
| 8993 | YDR216W | YLL034C | 1.675807e-09 |
| 8695 | YDR216W | YNR053C | 1.391757e-09 |
| 8996 | YGL254W | YLL034C | 1.344210e-09 |
| 6394 | YJR094C | YNL194C | 1.210824e-09 |
| 3595 | YGL254W | YER002W | 1.177156e-09 |
| 6395 | YGL254W | YNL194C | 1.158014e-09 |

[1] "network After:"

| | Regulator | TargetGene | prob |
|-----|-----------|------------|--------------|
| 203 | YJR094C | YJR094C | 1.000000e+00 |
| 301 | YOR032C | YOR032C | 1.000000e+00 |

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|------|---------|---------|--------------|
| 1602 | YDR216W | YDR216W | 1.000000e+00 |
| 2102 | YDL170W | YDL170W | 1.000000e+00 |
| 2202 | YKL062W | YKL062W | 1.000000e+00 |
| 2203 | YGL254W | YGL254W | 1.000000e+00 |
| 2301 | YKL015W | YKL015W | 1.000000e+00 |
| 2501 | YKL112W | YKL112W | 1.000000e+00 |
| 3401 | YMR280C | YMR280C | 1.000000e+00 |
| 3701 | YDR043C | YDR043C | 1.000000e+00 |
| 5702 | YER040W | YER040W | 1.000000e+00 |
| 6101 | YKL112W | YNL270C | 1.000000e+00 |
| 7601 | YDL170W | YCR010C | 1.000000e+00 |
| 8801 | YKL062W | YKR009C | 1.000000e+00 |
| 9801 | YDL170W | YJR110W | 1.000000e+00 |
| 9901 | YKL062W | YDR216W | 1.000000e+00 |
| 2004 | YKL062W | YER150W | 1.000000e+00 |
| 3703 | YKL062W | YIL136W | 1.000000e+00 |
| 2903 | YKL062W | YMR169C | 1.000000e+00 |
| 7104 | YKL062W | YDR361C | 1.000000e+00 |
| 904 | YDR216W | YDR171W | 1.000000e+00 |
| 5303 | YER040W | YMR229C | 1.000000e+00 |
| 4903 | YBL103C | YLR327C | 1.000000e+00 |
| 7604 | YKL062W | YAL062W | 1.000000e+00 |
| 2005 | YKL015W | YER150W | 9.999999e-01 |
| 2305 | YDR043C | YLR009W | 9.999997e-01 |
| 1402 | YKL062W | YFL014W | 9.999968e-01 |
| 1002 | YDR043C | YCR021C | 9.999784e-01 |
| 9203 | YKL062W | YLR178C | 9.999588e-01 |
| 3503 | YDR043C | YER002W | 9.926295e-01 |
| 1603 | YER040W | YDL170W | 9.903681e-01 |
| 7004 | YBL103C | YPR002W | 9.882139e-01 |
| 605 | YMR280C | YNL036W | 9.870398e-01 |
| 9702 | YKL015W | YKL040C | 9.828064e-01 |
| 8405 | YDL170W | YHR029C | 9.759532e-01 |
| 1104 | YKL062W | YGR043C | 9.096228e-01 |
| 404 | YDL170W | YER040W | 8.727256e-01 |
| 2405 | YKL062W | YPL111W | 8.450150e-01 |
| 7005 | YER040W | YPR002W | 8.164570e-01 |
| 805 | YKL062W | YHR136C | 6.882579e-01 |
| 3005 | YKL062W | YNR046W | 6.295850e-01 |
| 2805 | YBL103C | YOR100C | 5.552321e-01 |
| 1508 | YDL170W | YOR348C | 5.286012e-01 |
| 3904 | YDR043C | YER158C | 5.123184e-01 |
| 1509 | YDR216W | YOR348C | 4.627022e-01 |
| 4505 | YKL062W | YCL064C | 4.302623e-01 |
| 3506 | YKL062W | YER002W | 4.202709e-01 |

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| 3006 | YDR043C | YNR046W | 4.069155e-01 |
| 8906 | YDR043C | YLL034C | 3.694592e-01 |
| 4406 | YMR280C | YKR056W | 3.552051e-01 |
| 5207 | YKL062W | YHL028W | 3.319017e-01 |
| 8907 | YKL062W | YLL034C | 3.147426e-01 |
| 2406 | YKL112W | YPL111W | 3.118635e-01 |
| 6110 | YKL015W | YDR258C | 2.726643e-01 |
| 8408 | YER040W | YHR029C | 2.620775e-01 |
| 8409 | YKL112W | YHR029C | 2.182628e-01 |
| 9105 | YDR043C | YER067W | 2.008918e-01 |
| 7006 | YDL170W | YPR002W | 1.717569e-01 |
| 2707 | YDR043C | YPL012W | 1.621825e-01 |
| 8104 | YJR094C | YBL042C | 9.687050e-02 |
| 4204 | YMR280C | YGR067C | 9.326290e-02 |
| 8706 | YKL062W | YLR258W | 8.575580e-02 |
| 7805 | YKL062W | YPL036W | 8.001430e-02 |
| 8506 | YKL062W | YOL014W | 7.639610e-02 |
| 1306 | YMR280C | YAL054C | 6.050860e-02 |
| 3207 | YKL062W | YMR193W | 5.076040e-02 |
| 2008 | YDL170W | YER150W | 3.848110e-02 |
| 2009 | YBL103C | YER150W | 3.700350e-02 |
| 6119 | YBL103C | YDR258C | 3.174569e-02 |
| 4508 | YMR280C | YCL064C | 3.002860e-02 |
| 3407 | YDR043C | YLR174W | 2.925340e-02 |
| 5706 | YDL170W | YJL088W | 2.902040e-02 |
| 1512 | YKL062W | YOR348C | 2.571560e-02 |
| 9607 | YKL112W | YJL153C | 2.486470e-02 |
| 709 | YDR043C | YML123C | 2.458570e-02 |
| 5009 | YKL062W | YDL091C | 2.103520e-02 |
| 5407 | YKL062W | YOR206W | 2.060740e-02 |
| 922 | YKL062W | YDR171W | 1.930490e-02 |
| 7806 | YBL103C | YPL036W | 1.577170e-02 |
| 1513 | YKL015W | YOR348C | 1.477050e-02 |
| 1710 | YGL254W | YBR054W | 1.424450e-02 |
| 6706 | YDR043C | YKR009C | 1.127072e-02 |
| 4613 | YKL112W | YJL063C | 1.119170e-02 |
| 815 | YDR043C | YHR136C | 9.952100e-03 |
| 2503 | YDR043C | YOR388C | 8.822526e-03 |
| 9916 | YKL015W | YKL062W | 7.384918e-03 |
| 7807 | YOR032C | YPL036W | 7.080500e-03 |
| 2711 | YKL062W | YPL012W | 6.664478e-03 |
| 3512 | YMR280C | YER002W | 6.093500e-03 |
| 6012 | YKL112W | YDR043C | 5.848100e-03 |
| 1807 | YDR216W | YCR010C | 4.388878e-03 |
| 8108 | YKL112W | YBL042C | 4.276927e-03 |

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| 1414 | YKL015W | YFL014W | 4.134512e-03 |
| 319 | YDR216W | YMR280C | 3.392673e-03 |
| 7808 | YDR043C | YPL036W | 3.352507e-03 |
| 6413 | YMR280C | YLR276C | 3.311332e-03 |
| 5905 | YKL015W | YNR028W | 2.699416e-03 |
| 4412 | YKL112W | YKR056W | 2.263679e-03 |
| 7809 | YKL112W | YPL036W | 2.186318e-03 |
| 2613 | YKL062W | YJL172W | 2.031746e-03 |
| 321 | YER040W | YMR280C | 1.715859e-03 |
| 9210 | YKL015W | YLR178C | 1.640806e-03 |
| 2809 | YMR280C | YOR100C | 1.564278e-03 |
| 2114 | YGL254W | YPL061W | 1.349289e-03 |
| 9714 | YKL112W | YKL040C | 1.288645e-03 |
| 5824 | YDR043C | YLL011W | 1.228833e-03 |
| 4105 | YKL112W | YNR064C | 1.155329e-03 |
| 7612 | YKL112W | YAL062W | 1.143604e-03 |
| 7208 | YDR043C | YLL033W | 1.139963e-03 |
| 9924 | YDR216W | YKL062W | 1.136548e-03 |
| 2117 | YER040W | YPL061W | 1.097779e-03 |
| 9110 | YOR032C | YER067W | 9.938753e-04 |
| 5505 | YKL112W | YJR094C | 9.377215e-04 |
| 7615 | YER040W | YAL062W | 8.041847e-04 |
| 1311 | YDR216W | YAL054C | 7.240126e-04 |
| 3107 | YER040W | YJR110W | 7.085352e-04 |
| 1614 | YKL062W | YDL170W | 6.620358e-04 |
| 107 | YKL062W | YKL112W | 6.518338e-04 |
| 5314 | YKL112W | YMR229C | 6.153800e-04 |
| 9403 | YDR043C | YOR032C | 6.021894e-04 |
| 5827 | YKL062W | YLL011W | 5.800563e-04 |
| 1418 | YDL170W | YFL014W | 5.600695e-04 |
| 9823 | YKL015W | YHR087W | 4.882720e-04 |
| 326 | YDL170W | YMR280C | 4.740960e-04 |
| 8210 | YGL254W | YLR130C | 4.548084e-04 |
| 2909 | YKL015W | YMR169C | 4.510282e-04 |
| 2513 | YDL170W | YOR388C | 4.487671e-04 |
| 2719 | YMR280C | YPL012W | 3.749033e-04 |
| 2617 | YER040W | YJL172W | 3.361743e-04 |
| 2811 | YKL062W | YOR100C | 3.233403e-04 |
| 1422 | YDR216W | YFL014W | 3.179950e-04 |
| 8211 | YDR216W | YLR130C | 3.131830e-04 |
| 3916 | YKL015W | YER158C | 3.127803e-04 |
| 3917 | YOR032C | YER158C | 3.047235e-04 |
| 6207 | YBL103C | YKL071W | 2.745549e-04 |
| 7313 | YDL170W | YOR302W | 2.706648e-04 |
| 5509 | YDR043C | YJR094C | 2.677044e-04 |

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| 5412 | YDR043C | YOR206W | 2.508847e-04 |
| 1315 | YGL254W | YAL054C | 2.484465e-04 |
| 7116 | YDR043C | YDR361C | 2.474675e-04 |
| 4208 | YDR216W | YGR067C | 2.437015e-04 |
| 8311 | YBL103C | YLR267W | 2.395245e-04 |
| 2024 | YER040W | YER150W | 2.334549e-04 |
| 3812 | YKL015W | YGR183C | 2.312097e-04 |
| 1022 | YER040W | YCR021C | 2.278207e-04 |
| 331 | YGL254W | YMR280C | 2.205116e-04 |
| 2722 | YOR032C | YPL012W | 2.181173e-04 |
| 4912 | YDR216W | YLR327C | 2.149646e-04 |
| 926 | YBL103C | YDR171W | 2.145629e-04 |
| 8215 | YMR280C | YLR130C | 2.124343e-04 |
| 2315 | YKL062W | YLR009W | 2.033173e-04 |
| 9512 | YOR032C | YHR216W | 2.023385e-04 |
| 3813 | YKL062W | YGR183C | 1.950767e-04 |
| 9933 | YDR043C | YKL062W | 1.860922e-04 |
| 108 | YDR043C | YKL112W | 1.859648e-04 |
| 4913 | YER040W | YLR327C | 1.794421e-04 |
| 9116 | YBL103C | YER067W | 1.754331e-04 |
| 7714 | YKL112W | YDR523C | 1.746721e-04 |
| 6018 | YOR032C | YDR043C | 1.741403e-04 |
| 3114 | YBL103C | YJR110W | 1.700068e-04 |
| 4914 | YKL015W | YLR327C | 1.686509e-04 |
| 5833 | YGL254W | YLL011W | 1.669997e-04 |
| 6809 | YOR032C | YKL015W | 1.653053e-04 |
| 2517 | YKL062W | YOR388C | 1.648864e-04 |
| 6623 | YKL112W | YNL037C | 1.642704e-04 |
| 4010 | YOR032C | YJR148W | 1.637047e-04 |
| 6127 | YER040W | YDR258C | 1.633385e-04 |
| 9214 | YER040W | YLR178C | 1.601746e-04 |
| 2121 | YDL170W | YPL061W | 1.597378e-04 |
| 5514 | YER040W | YJR094C | 1.526310e-04 |
| 9617 | YDR043C | YJL153C | 1.517209e-04 |
| 4711 | YBL103C | YDL160C | 1.405944e-04 |
| 2519 | YMR280C | YOR388C | 1.405749e-04 |
| 6722 | YER040W | YKR009C | 1.376892e-04 |
| 5913 | YER040W | YNR028W | 1.372189e-04 |
| 3720 | YER040W | YIL136W | 1.328123e-04 |
| 9725 | YKL062W | YKL040C | 1.314229e-04 |
| 1435 | YDR043C | YFL014W | 1.260688e-04 |
| 8017 | YKL062W | YOR056C | 1.242641e-04 |
| 8018 | YDR043C | YOR056C | 1.239953e-04 |
| 333 | YKL015W | YMR280C | 1.222893e-04 |
| 9122 | YDR216W | YER067W | 1.168811e-04 |

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| 5516 | YDL170W | YJR094C | 1.163116e-04 |
| 1027 | YBL103C | YCR021C | 1.161262e-04 |
| 2520 | YER040W | YOR388C | 1.146756e-04 |
| 1111 | YOR032C | YGR043C | 1.121684e-04 |
| 8619 | YDR043C | YNR053C | 1.118330e-04 |
| 4918 | YDL170W | YLR327C | 1.106170e-04 |
| 5517 | YOR032C | YJR094C | 1.099354e-04 |
| 3115 | YGL254W | YJR110W | 1.098570e-04 |
| 1926 | YKL112W | YDR384C | 1.079826e-04 |
| 9409 | YKL062W | YOR032C | 1.017373e-04 |
| 335 | YBL103C | YMR280C | 9.858481e-05 |
| 6726 | YDL170W | YKR009C | 9.620874e-05 |
| 9939 | YMR280C | YKL062W | 9.431196e-05 |
| 5614 | YKL015W | YIL155C | 9.354593e-05 |
| 9729 | YOR032C | YKL040C | 9.145716e-05 |
| 1626 | YKL112W | YDL170W | 9.046739e-05 |
| 6906 | YMR280C | YGL009C | 8.908588e-05 |
| 5518 | YBL103C | YJR094C | 8.692344e-05 |
| 7718 | YKL062W | YDR523C | 8.603540e-05 |
| 6810 | YKL062W | YKL015W | 8.567141e-05 |
| 3317 | YKL015W | YGL254W | 8.378584e-05 |
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| 9831 | YKL062W | YHR087W | 8.229672e-05 |
| 6812 | YKL112W | YKL015W | 7.749511e-05 |
| 9732 | YER040W | YKL040C | 7.613779e-05 |
| 6627 | YMR280C | YNL037C | 7.514219e-05 |
| 2915 | YDL170W | YMR169C | 7.310313e-05 |
| 1448 | YJR094C | YFL014W | 7.215076e-05 |
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| 9942 | YKL112W | YKL062W | 7.197676e-05 |
| 4623 | YMR280C | YJL063C | 7.114622e-05 |
| 9320 | YDR043C | YGL229C | 7.091607e-05 |
| 3820 | YMR280C | YGR183C | 6.982865e-05 |
| 7908 | YDR043C | YJL217W | 6.963837e-05 |
| 9321 | YMR280C | YGL229C | 6.960399e-05 |
| 1631 | YBL103C | YDL170W | 6.626979e-05 |
| 7410 | YKL015W | YNL270C | 6.502019e-05 |
| 6813 | YMR280C | YKL015W | 6.384302e-05 |
| 7722 | YER040W | YDR523C | 6.149331e-05 |
| 2629 | YDR043C | YJL172W | 6.110538e-05 |
| 1930 | YKL062W | YDR384C | 6.107044e-05 |
| 7411 | YMR280C | YNL270C | 6.048286e-05 |
| 6631 | YDR043C | YNL037C | 5.927016e-05 |
| 8221 | YKL062W | YLR130C | 5.818131e-05 |
| 7911 | YDR216W | YJL217W | 5.803088e-05 |

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| 8312 | YDR043C | YLR267W | 5.777822e-05 |
| 5521 | YKL062W | YJR094C | 5.741613e-05 |
| 6734 | YBL103C | YKR009C | 5.716572e-05 |
| 7316 | YKL112W | YOR302W | 5.685453e-05 |
| 4812 | YKL112W | YIL037C | 5.673267e-05 |
| 5522 | YGL254W | YJR094C | 5.638254e-05 |
| 345 | YKL062W | YMR280C | 5.626418e-05 |
| 4217 | YKL112W | YGR067C | 5.606436e-05 |
| 3822 | YDR043C | YGR183C | 5.573155e-05 |
| 346 | YOR032C | YMR280C | 5.520617e-05 |
| 2918 | YMR280C | YMR169C | 5.451099e-05 |
| 9126 | YDL170W | YER067W | 5.374859e-05 |
| 415 | YDR043C | YER040W | 5.364057e-05 |
| 1036 | YDL170W | YCR021C | 5.325783e-05 |
| 7317 | YBL103C | YOR302W | 5.302314e-05 |
| 4715 | YER040W | YDL160C | 5.273234e-05 |
| 9514 | YBL103C | YHR216W | 5.246698e-05 |
| 2532 | YBL103C | YOR388C | 5.039521e-05 |
| 217 | YKL015W | YDR216W | 4.954761e-05 |
| 7412 | YKL062W | YNL270C | 4.826213e-05 |
| 1454 | YMR280C | YFL014W | 4.780681e-05 |
| 9417 | YKL015W | YOR032C | 4.762414e-05 |
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| 1632 | YDR043C | YDL170W | 4.549196e-05 |
| 7913 | YJR094C | YJL217W | 4.457401e-05 |
| 6639 | YKL015W | YNL037C | 4.409747e-05 |
| 5416 | YMR280C | YOR206W | 4.353974e-05 |
| 7320 | YER040W | YOR302W | 4.310284e-05 |
| 828 | YMR280C | YHR136C | 4.264791e-05 |
| 4117 | YMR280C | YNR064C | 4.233747e-05 |
| 6137 | YDR216W | YDR258C | 4.107077e-05 |
| 1635 | YOR032C | YDL170W | 4.050507e-05 |
| 5716 | YKL062W | YJL088W | 3.835422e-05 |
| 7015 | YKL112W | YPR002W | 3.770909e-05 |
| 2533 | YJR094C | YOR388C | 3.752717e-05 |
| 1116 | YMR280C | YGR043C | 3.691210e-05 |
| 5719 | YER040W | YJL088W | 3.687478e-05 |
| 5112 | YMR280C | YHR051W | 3.681192e-05 |
| 218 | YDL170W | YDR216W | 3.627576e-05 |
| 9742 | YBL103C | YKL040C | 3.538803e-05 |
| 9131 | YER040W | YER067W | 3.517504e-05 |
| 9743 | YDL170W | YKL040C | 3.497766e-05 |
| 7828 | YDL170W | YPL036W | 3.488702e-05 |
| 8226 | YBL103C | YLR130C | 3.475313e-05 |
| 8432 | YBL103C | YHR029C | 3.468308e-05 |

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| 9217 | YDL170W | YLR178C | 3.400787e-05 |
| 8520 | YMR280C | YOL014W | 3.384804e-05 |
| 6431 | YER040W | YLR276C | 3.326874e-05 |
| 7915 | YKL062W | YJL217W | 3.266112e-05 |
| 934 | YDL170W | YDR171W | 3.160488e-05 |
| 729 | YMR280C | YML123C | 3.133920e-05 |
| 5532 | YMR280C | YJR094C | 3.113875e-05 |
| 4118 | YBL103C | YNR064C | 3.087882e-05 |
| 7217 | YDL170W | YLL033W | 3.070819e-05 |
| 2217 | YDR043C | YKR075C | 3.051942e-05 |
| 8116 | YOR032C | YBL042C | 3.047466e-05 |
| 2218 | YMR280C | YKR075C | 3.011241e-05 |
| 9836 | YDL170W | YHR087W | 2.879614e-05 |
| 1821 | YKL062W | YCR010C | 2.857842e-05 |
| 8228 | YDL170W | YLR130C | 2.846683e-05 |
| 9517 | YKL015W | YHR216W | 2.820889e-05 |
| 126 | YOR032C | YKL112W | 2.805498e-05 |
| 1936 | YER040W | YDR384C | 2.805228e-05 |
| 3729 | YDL170W | YIL136W | 2.799122e-05 |
| 5720 | YKL112W | YJL088W | 2.778042e-05 |
| 6433 | YKL062W | YLR276C | 2.734314e-05 |
| 5851 | YMR280C | YLL011W | 2.686023e-05 |
| 9423 | YMR280C | YOR032C | 2.677814e-05 |
| 6318 | YKL062W | YNL194C | 2.659118e-05 |
| 7919 | YMR280C | YJL217W | 2.647862e-05 |
| 7513 | YKL112W | YFR022W | 2.604530e-05 |
| 8230 | YKL112W | YLR130C | 2.603658e-05 |
| 7832 | YMR280C | YPL036W | 2.583816e-05 |
| 7129 | YMR280C | YDR361C | 2.548553e-05 |
| 5930 | YBL103C | YNR028W | 2.494533e-05 |
| 2134 | YBL103C | YPL061W | 2.493416e-05 |
| 5931 | YDL170W | YNR028W | 2.485983e-05 |
| 5932 | YKL112W | YNR028W | 2.471808e-05 |
| 5031 | YOR032C | YDL091C | 2.446864e-05 |
| 357 | YDR043C | YMR280C | 2.416850e-05 |
| 1824 | YER040W | YCR010C | 2.402678e-05 |
| 1328 | YDR043C | YAL054C | 2.399200e-05 |
| 128 | YDL170W | YKL112W | 2.377286e-05 |
| 6215 | YER040W | YKL071W | 2.315170e-05 |
| 223 | YER040W | YDR216W | 2.298749e-05 |
| 7922 | YOR032C | YJL217W | 2.297164e-05 |
| 8233 | YER040W | YLR130C | 2.288770e-05 |
| 833 | YGL254W | YHR136C | 2.279321e-05 |
| 9331 | YKL112W | YGL229C | 2.233116e-05 |
| 2928 | YER040W | YMR169C | 2.222405e-05 |

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| 9950 | YOR032C | YKL062W | 2.159891e-05 |
| 1826 | YBL103C | YCR010C | 2.153017e-05 |
| 6021 | YKL062W | YDR043C | 2.129365e-05 |
| 5852 | YKL112W | YLL011W | 2.110915e-05 |
| 7735 | YDL170W | YDR523C | 2.080357e-05 |
| 7219 | YKL112W | YLL033W | 2.072730e-05 |
| 2138 | YKL112W | YPL061W | 2.063347e-05 |
| 733 | YKL062W | YML123C | 2.040661e-05 |
| 7736 | YDR043C | YDR523C | 1.995620e-05 |
| 834 | YKL015W | YHR136C | 1.980063e-05 |
| 9840 | YDR216W | YHR087W | 1.974842e-05 |
| 6523 | YKL112W | YLR438W | 1.946194e-05 |
| 7518 | YOR032C | YFR022W | 1.935727e-05 |
| 4529 | YJR094C | YCL064C | 1.919554e-05 |
| 9424 | YBL103C | YOR032C | 1.881462e-05 |
| 2932 | YDR216W | YMR169C | 1.861922e-05 |
| 4822 | YDL170W | YIL037C | 1.845615e-05 |
| 7221 | YER040W | YLL033W | 1.842544e-05 |
| 3025 | YBL103C | YNR046W | 1.814905e-05 |
| 2324 | YMR280C | YLR009W | 1.811048e-05 |
| 6440 | YDR043C | YLR276C | 1.784551e-05 |
| 1830 | YGL254W | YCR010C | 1.780305e-05 |
| 1214 | YKL062W | YHR018C | 1.774828e-05 |
| 1339 | YER040W | YAL054C | 1.757101e-05 |
| 522 | YDR043C | YGR142W | 1.699126e-05 |
| 8040 | YKL112W | YOR056C | 1.689480e-05 |
| 2546 | YKL112W | YOR388C | 1.669787e-05 |
| 2325 | YDL170W | YLR009W | 1.659497e-05 |
| 4720 | YDR043C | YDL160C | 1.653961e-05 |
| 2834 | YKL112W | YOR100C | 1.603619e-05 |
| 2547 | YDR216W | YOR388C | 1.600462e-05 |
| 2229 | YKL112W | YKR075C | 1.599917e-05 |
| 7628 | YGL254W | YAL062W | 1.597608e-05 |
| 6745 | YMR280C | YKR009C | 1.585847e-05 |
| 4721 | YDL170W | YDL160C | 1.577741e-05 |
| 5538 | YDR216W | YJR094C | 1.554942e-05 |
| 6145 | YMR280C | YDR258C | 1.544585e-05 |
| 4315 | YBL103C | YPL265W | 1.533936e-05 |
| 9021 | YKL062W | YDL110C | 1.526807e-05 |
| 5858 | YDL170W | YLL011W | 1.507655e-05 |
| 4232 | YKL062W | YGR067C | 1.502316e-05 |
| 7838 | YKL015W | YPL036W | 1.502199e-05 |
| 6648 | YBL103C | YNL037C | 1.477513e-05 |
| 1832 | YKL112W | YCR010C | 1.459846e-05 |
| 9425 | YKL112W | YOR032C | 1.447197e-05 |

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| 7428 | YDR043C | YNL270C | 1.433132e-05 |
| 3130 | YKL112W | YJR110W | 1.402890e-05 |
| 2838 | YER040W | YOR100C | 1.382148e-05 |
| 1467 | YBL103C | YFL014W | 1.368202e-05 |
| 3836 | YKL112W | YGR183C | 1.352707e-05 |
| 4427 | YDR216W | YKR056W | 1.341729e-05 |
| 1124 | YDL170W | YGR043C | 1.301385e-05 |
| 2230 | YER040W | YKR075C | 1.299394e-05 |
| 6932 | YKL062W | YGL009C | 1.289146e-05 |
| 9336 | YDR216W | YGL229C | 1.248088e-05 |
| 6149 | YKL062W | YDR258C | 1.215705e-05 |
| 7227 | YOR032C | YLL033W | 1.201057e-05 |
| 1343 | YDL170W | YAL054C | 1.196407e-05 |
| 4936 | YGL254W | YLR327C | 1.194683e-05 |
| 6444 | YDL170W | YLR276C | 1.164164e-05 |
| 2333 | YBL103C | YLR009W | 1.159344e-05 |
| 7927 | YDL170W | YJL217W | 1.140154e-05 |
| 6747 | YKL112W | YKR009C | 1.134916e-05 |
| 1471 | YKL112W | YFL014W | 1.127983e-05 |
| 2941 | YBL103C | YMR169C | 1.098467e-05 |
| 9144 | YKL062W | YER067W | 1.097955e-05 |
| 1215 | YER040W | YHR018C | 1.083133e-05 |
| 9338 | YBL103C | YGL229C | 1.082496e-05 |
| 7231 | YBL103C | YLL033W | 1.076115e-05 |
| 4130 | YDL170W | YNR064C | 1.073972e-05 |
| 9524 | YDR043C | YHR216W | 1.045144e-05 |
| 7929 | YER040W | YJL217W | 1.039800e-05 |
| 2231 | YKL062W | YKR075C | 1.039026e-05 |
| 525 | YER040W | YGR142W | 1.037287e-05 |
| 228 | YBL103C | YDR216W | 1.024234e-05 |
| 6224 | YOR032C | YKL071W | 1.019095e-05 |
| 4017 | YKL112W | YJR148W | 1.003964e-05 |
| 2750 | YBL103C | YPL012W | 9.716072e-06 |
| 3735 | YKL112W | YIL136W | 9.671371e-06 |
| 1841 | YKL015W | YCR010C | 9.255886e-06 |
| 9339 | YKL062W | YGL229C | 9.223619e-06 |
| 939 | YKL015W | YDR171W | 9.164611e-06 |
| 3220 | YDR043C | YMR193W | 8.846968e-06 |
| 2650 | YDL170W | YJL172W | 8.765911e-06 |
| 8050 | YMR280C | YOR056C | 8.730850e-06 |
| 4942 | YKL112W | YLR327C | 8.719970e-06 |
| 4133 | YKL015W | YNR064C | 8.676632e-06 |
| 2944 | YDR043C | YMR169C | 8.666203e-06 |
| 6227 | YDL170W | YKL071W | 8.418289e-06 |
| 2652 | YKL112W | YJL172W | 8.344594e-06 |

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| 6530 | YKL062W | YLR438W | 8.248821e-06 |
| 9631 | YMR280C | YJL153C | 8.221192e-06 |
| 6321 | YKL015W | YNL194C | 8.092109e-06 |
| 1127 | YBL103C | YGR043C | 7.981064e-06 |
| 6830 | YDR043C | YKL015W | 7.920131e-06 |
| 2842 | YOR032C | YOR100C | 7.858714e-06 |
| 2560 | YOR032C | YOR388C | 7.775450e-06 |
| 5039 | YMR280C | YDL091C | 7.742857e-06 |
| 2563 | YGL254W | YOR388C | 7.673306e-06 |
| 3737 | YKL015W | YIL136W | 7.634000e-06 |
| 141 | YER040W | YKL112W | 7.585626e-06 |
| 4321 | YMR280C | YPL265W | 7.562203e-06 |
| 6449 | YDR216W | YLR276C | 7.544046e-06 |
| 4826 | YDR043C | YIL037C | 7.505486e-06 |
| 7932 | YGL254W | YJL217W | 7.493570e-06 |
| 3738 | YOR032C | YIL136W | 7.300849e-06 |
| 9632 | YER040W | YJL153C | 7.289606e-06 |
| 9760 | YDR216W | YKL040C | 7.271380e-06 |
| 2947 | YOR032C | YMR169C | 7.011217e-06 |
| 9633 | YKL062W | YJL153C | 6.932814e-06 |
| 2654 | YMR280C | YJL172W | 6.897514e-06 |
| 5040 | YKL112W | YDL091C | 6.815323e-06 |
| 7530 | YMR280C | YFR022W | 6.623200e-06 |
| 4637 | YKL062W | YJL063C | 6.380821e-06 |
| 7441 | YDL170W | YNL270C | 6.323033e-06 |
| 8819 | YKL062W | YDR380W | 6.252150e-06 |
| 3338 | YKL062W | YGL254W | 6.230039e-06 |
| 4434 | YKL062W | YKR056W | 6.177072e-06 |
| 2846 | YDL170W | YOR100C | 6.089676e-06 |
| 8727 | YKL015W | YLR258W | 6.082714e-06 |
| 4138 | YER040W | YNR064C | 5.784629e-06 |
| 6833 | YDL170W | YKL015W | 5.579904e-06 |
| 8323 | YKL112W | YLR267W | 5.497778e-06 |
| 4540 | YDL170W | YCL064C | 5.435528e-06 |
| 6942 | YDR043C | YGL009C | 5.416631e-06 |
| 7937 | YBL103C | YJL217W | 5.410236e-06 |
| 7442 | YDR216W | YNL270C | 5.205863e-06 |
| 1958 | YBL103C | YDR384C | 5.189335e-06 |
| 4833 | YMR280C | YIL037C | 5.110947e-06 |
| 9763 | YGL254W | YKL040C | 5.073716e-06 |
| 5549 | YKL015W | YJR094C | 4.750102e-06 |
| 5943 | YGL254W | YNR028W | 4.728916e-06 |
| 9025 | YOR032C | YDL110C | 4.665576e-06 |
| 4641 | YDL170W | YJL063C | 4.660066e-06 |
| 7144 | YKL112W | YDR361C | 4.628863e-06 |

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| 3932 | YKL062W | YER158C | 4.620258e-06 |
| 8824 | YDR043C | YDR380W | 4.581335e-06 |
| 2426 | YDR043C | YPL111W | 4.570775e-06 |
| 5729 | YDR216W | YJL088W | 4.563106e-06 |
| 4249 | YER040W | YGR067C | 4.538197e-06 |
| 6454 | YKL112W | YLR276C | 4.525177e-06 |
| 4544 | YDR043C | YCL064C | 4.335303e-06 |
| 7145 | YER040W | YDR361C | 4.291178e-06 |
| 377 | YKL112W | YMR280C | 4.281128e-06 |
| 3225 | YGL254W | YMR193W | 4.210543e-06 |
| 7942 | YKL015W | YJL217W | 4.155309e-06 |
| 5047 | YDR043C | YDL091C | 4.129784e-06 |
| 9158 | YKL112W | YER067W | 4.089677e-06 |
| 3742 | YBL103C | YIL136W | 4.006699e-06 |
| 6167 | YDR043C | YDR258C | 3.994869e-06 |
| 1065 | YMR280C | YCR021C | 3.968059e-06 |
| 4645 | YDR216W | YJL063C | 3.884346e-06 |
| 1066 | YKL112W | YCR021C | 3.843331e-06 |
| 3346 | YDL170W | YGL254W | 3.842424e-06 |
| 5870 | YER040W | YLL011W | 3.831991e-06 |
| 3347 | YDR043C | YGL254W | 3.819941e-06 |
| 9160 | YKL015W | YER067W | 3.814344e-06 |
| 7943 | YKL112W | YJL217W | 3.784805e-06 |
| 3348 | YER040W | YGL254W | 3.779341e-06 |
| 9162 | YGL254W | YER067W | 3.775882e-06 |
| 4546 | YER040W | YCL064C | 3.749530e-06 |
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| 6025 | YKL015W | YDR043C | 3.733617e-06 |
| 5871 | YKL015W | YLL011W | 3.701246e-06 |
| 3421 | YDR216W | YLR174W | 3.687687e-06 |
| 7537 | YER040W | YFR022W | 3.684195e-06 |
| 4251 | YDL170W | YGR067C | 3.660468e-06 |
| 7765 | YMR280C | YDR523C | 3.576189e-06 |
| 7538 | YBL103C | YFR022W | 3.521667e-06 |
| 9352 | YER040W | YGL229C | 3.488473e-06 |
| 6662 | YDR216W | YNL037C | 3.466172e-06 |
| 1477 | YOR032C | YFL014W | 3.462118e-06 |
| 3422 | YMR280C | YLR174W | 3.402917e-06 |
| 6234 | YDR043C | YKL071W | 3.395999e-06 |
| 4739 | YDR216W | YDL160C | 3.382019e-06 |
| 7447 | YBL103C | YNL270C | 3.361308e-06 |
| 5219 | YDR043C | YHL028W | 3.354458e-06 |
| 7448 | YER040W | YNL270C | 3.335423e-06 |
| 4331 | YKL112W | YPL265W | 3.320012e-06 |
| 4333 | YER040W | YPL265W | 3.250735e-06 |

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| 4965 | YKL062W | YLR327C | 3.208970e-06 |
| 6665 | YDL170W | YNL037C | 3.141530e-06 |
| 3041 | YDL170W | YNR046W | 3.120892e-06 |
| 9444 | YER040W | YOR032C | 3.065905e-06 |
| 5124 | YKL062W | YHR051W | 3.065417e-06 |
| 4742 | YKL112W | YDL160C | 3.042818e-06 |
| 2658 | YBL103C | YJL172W | 2.997725e-06 |
| 4654 | YBL103C | YJL063C | 2.977507e-06 |
| 9535 | YDR216W | YHR216W | 2.959753e-06 |
| 9026 | YDR043C | YDL110C | 2.928778e-06 |
| 1534 | YBL103C | YOR348C | 2.927453e-06 |
| 4655 | YGL254W | YJL063C | 2.856963e-06 |
| 8122 | YDR043C | YBL042C | 2.835073e-06 |
| 380 | YJR094C | YMR280C | 2.833007e-06 |
| 7770 | YDR216W | YDR523C | 2.803375e-06 |
| 9028 | YDL170W | YDL110C | 2.757057e-06 |
| 1355 | YKL112W | YAL054C | 2.744895e-06 |
| 6947 | YKL112W | YGL009C | 2.743455e-06 |
| 9641 | YJR094C | YJL153C | 2.740551e-06 |
| 149 | YGL254W | YKL112W | 2.727368e-06 |
| 7342 | YMR280C | YOR302W | 2.700377e-06 |
| 3869 | YOR032C | YGR183C | 2.659605e-06 |
| 8735 | YMR280C | YLR258W | 2.656563e-06 |
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| 6458 | YGL254W | YLR276C | 2.624911e-06 |
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| 3351 | YMR280C | YGL254W | 2.537092e-06 |
| 9539 | YGL254W | YHR216W | 2.521926e-06 |
| 8550 | YER040W | YOL014W | 2.459148e-06 |
| 2861 | YDR043C | YOR100C | 2.457407e-06 |
| 9971 | YJR094C | YKL062W | 2.426860e-06 |
| 1071 | YKL062W | YCR021C | 2.416800e-06 |
| 1072 | YGL254W | YCR021C | 2.415506e-06 |
| 753 | YDR216W | YML123C | 2.412266e-06 |
| 1536 | YMR280C | YOR348C | 2.397289e-06 |
| 6843 | YER040W | YKL015W | 2.388349e-06 |
| 621 | YDR216W | YNL036W | 2.387436e-06 |
| 1482 | YER040W | YFL014W | 2.376735e-06 |
| 4261 | YOR032C | YGR067C | 2.365293e-06 |
| 7453 | YOR032C | YNL270C | 2.355988e-06 |
| 8329 | YDL170W | YLR267W | 2.345593e-06 |
| 539 | YKL112W | YGR142W | 2.332661e-06 |

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| 3149 | YDR043C | YJR110W | 2.292513e-06 |
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| 8737 | YDR216W | YLR258W | 2.235055e-06 |
| 948 | YDR043C | YDR171W | 2.206772e-06 |
| 9451 | YGL254W | YOR032C | 2.190747e-06 |
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| 7772 | YBL103C | YDR523C | 2.181965e-06 |
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| 4036 | YMR280C | YJR148W | 2.170412e-06 |
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| 2163 | YKL015W | YPL061W | 2.158359e-06 |
| 150 | YBL103C | YKL112W | 2.157105e-06 |
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| 4972 | YMR280C | YLR327C | 2.125996e-06 |
| 4660 | YDR043C | YJL063C | 2.122301e-06 |
| 6538 | YBL103C | YLR438W | 2.069954e-06 |
| 5958 | YDR216W | YNR028W | 2.053595e-06 |
| 1138 | YDR043C | YGR043C | 2.052446e-06 |
| 3425 | YDL170W | YLR174W | 2.008937e-06 |
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| 9646 | YDL170W | YJL153C | 1.977620e-06 |
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| 544 | YDL170W | YGR142W | 1.894895e-06 |
| 860 | YOR032C | YHR136C | 1.893873e-06 |
| 243 | YKL112W | YDR216W | 1.849844e-06 |
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| 1967 | YMR280C | YDR384C | 1.790257e-06 |
| 7253 | YMR280C | YLL033W | 1.787734e-06 |
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| 3936 | YBL103C | YER158C | 1.778938e-06 |
| 755 | YGL254W | YML123C | 1.770274e-06 |
| 4267 | YDR043C | YGR067C | 1.766114e-06 |
| 6244 | YDR216W | YKL071W | 1.753050e-06 |
| 2775 | YKL015W | YPL012W | 1.751222e-06 |
| 3937 | YKL112W | YER158C | 1.749050e-06 |
| 624 | YKL062W | YNL036W | 1.710514e-06 |
| 4344 | YKL015W | YPL265W | 1.667861e-06 |
| 1540 | YDR043C | YOR348C | 1.657474e-06 |
| 4559 | YKL112W | YCL064C | 1.648619e-06 |
| 5630 | YDR216W | YIL155C | 1.634800e-06 |
| 8462 | YKL062W | YHR029C | 1.629413e-06 |
| 7551 | YDR043C | YFR022W | 1.615094e-06 |

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| 8557 | YKL112W | YOL014W | 1.610283e-06 |
| 8464 | YGL254W | YHR029C | 1.604953e-06 |
| 9362 | YOR032C | YGL229C | 1.603476e-06 |
| 1362 | YKL062W | YAL054C | 1.593880e-06 |
| 6171 | YKL112W | YDR258C | 1.585309e-06 |
| 9035 | YDR216W | YDL110C | 1.579954e-06 |
| 2170 | YDR043C | YPL061W | 1.563278e-06 |
| 6245 | YKL062W | YKL071W | 1.549785e-06 |
| 9175 | YMR280C | YER067W | 1.477988e-06 |
| 1082 | YOR032C | YCR021C | 1.477241e-06 |
| 3875 | YER040W | YGR183C | 1.442289e-06 |
| 5059 | YKL015W | YDL091C | 1.437434e-06 |
| 5632 | YKL062W | YIL155C | 1.433407e-06 |
| 2970 | YKL112W | YMR169C | 1.428194e-06 |
| 7463 | YGL254W | YNL270C | 1.426510e-06 |
| 864 | YDR216W | YHR136C | 1.411803e-06 |
| 5060 | YDL170W | YDL091C | 1.406422e-06 |
| 4667 | YER040W | YJL063C | 1.389297e-06 |
| 7554 | YDL170W | YFR022W | 1.388916e-06 |
| 7776 | YKL015W | YDR523C | 1.370463e-06 |
| 1364 | YBL103C | YAL054C | 1.346004e-06 |
| 8072 | YER040W | YOR056C | 1.344296e-06 |
| 4148 | YDR043C | YNR064C | 1.342349e-06 |
| 2250 | YDL170W | YKR075C | 1.324519e-06 |
| 1736 | YDL170W | YBR054W | 1.313490e-06 |
| 2780 | YKL112W | YPL012W | 1.298412e-06 |
| 2362 | YKL112W | YLR009W | 1.291328e-06 |
| 4346 | YDR216W | YPL265W | 1.287961e-06 |
| 548 | YKL062W | YGR142W | 1.281227e-06 |
| 9466 | YJR094C | YOR032C | 1.276102e-06 |
| 9467 | YDL170W | YOR032C | 1.269964e-06 |
| 9546 | YER040W | YHR216W | 1.264038e-06 |
| 3357 | YBL103C | YGL254W | 1.263555e-06 |
| 9547 | YMR280C | YHR216W | 1.242194e-06 |
| 4561 | YBL103C | YCL064C | 1.241591e-06 |
| 4981 | YDR043C | YLR327C | 1.240844e-06 |
| 5228 | YKL015W | YHL028W | 1.239132e-06 |
| 1085 | YDR216W | YCR021C | 1.237335e-06 |
| 9779 | YJR094C | YKL040C | 1.230766e-06 |
| 2363 | YER040W | YLR009W | 1.229627e-06 |
| 549 | YOR032C | YGR142W | 1.216262e-06 |
| 761 | YKL015W | YML123C | 1.201315e-06 |
| 6680 | YKL062W | YNL037C | 1.199350e-06 |
| 6248 | YJR094C | YKL071W | 1.176498e-06 |
| 2676 | YOR032C | YJL172W | 1.164790e-06 |

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| 1972 | YDR043C | YDR384C | 1.148392e-06 |
| 4448 | YER040W | YKR056W | 1.141432e-06 |
| 9233 | YMR280C | YLR178C | 1.132936e-06 |
| 1369 | YOR032C | YAL054C | 1.124635e-06 |
| 7363 | YGL254W | YOR302W | 1.118812e-06 |
| 9863 | YMR280C | YHR087W | 1.116292e-06 |
| 1144 | YKL112W | YGR043C | 1.112887e-06 |
| 6682 | YER040W | YNL037C | 1.111894e-06 |
| 2173 | YKL062W | YPL061W | 1.101458e-06 |
| 4348 | YDL170W | YPL265W | 1.094165e-06 |
| 4984 | YOR032C | YLR327C | 1.069947e-06 |
| 3364 | YOR032C | YGL254W | 1.048031e-06 |
| 1672 | YMR280C | YDL170W | 1.041926e-06 |
| 9039 | YMR280C | YDL110C | 1.041197e-06 |
| 6542 | YER040W | YLR438W | 1.040094e-06 |
| 9982 | YER040W | YKL062W | 1.034413e-06 |
| 9983 | YDL170W | YKL062W | 1.032724e-06 |
| 2878 | YKL015W | YOR100C | 1.031000e-06 |
| 1868 | YJR094C | YCR010C | 1.030673e-06 |
| 956 | YMR280C | YDR171W | 1.029089e-06 |
| 1550 | YGL254W | YOR348C | 1.027904e-06 |
| 9783 | YMR280C | YKL040C | 1.015636e-06 |
| 2684 | YGL254W | YJL172W | 1.008334e-06 |
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| 3753 | YDR216W | YIL136W | 9.857975e-07 |
| 7650 | YMR280C | YAL062W | 9.848851e-07 |
| 1145 | YDR216W | YGR043C | 9.804780e-07 |
| 8470 | YDR043C | YHR029C | 9.783838e-07 |
| 869 | YJR094C | YHR136C | 9.761009e-07 |
| 2685 | YKL015W | YJL172W | 9.650616e-07 |
| 5880 | YBL103C | YLL011W | 9.559111e-07 |
| 7165 | YGL254W | YDR361C | 9.317072e-07 |
| 3754 | YMR280C | YIL136W | 9.135168e-07 |
| 2177 | YMR280C | YPL061W | 8.869984e-07 |
| 630 | YKL112W | YNL036W | 8.823280e-07 |
| 3241 | YKL112W | YMR193W | 8.810514e-07 |
| 5639 | YKL112W | YIL155C | 8.776311e-07 |
| 7166 | YDL170W | YDR361C | 8.761235e-07 |
| 8472 | YMR280C | YHR029C | 8.759649e-07 |
| 7167 | YKL015W | YDR361C | 8.682706e-07 |
| 7365 | YDR043C | YOR302W | 8.664523e-07 |
| 5973 | YMR280C | YNR028W | 8.639333e-07 |
| 2431 | YBL103C | YPL111W | 8.596605e-07 |

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| 4991 | YJR094C | YLR327C | 8.580287e-07 |
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| 6255 | YKL112W | YKL071W | 8.486958e-07 |
| 4856 | YKL015W | YIL037C | 8.468379e-07 |
| 7561 | YKL062W | YFR022W | 8.416769e-07 |
| 9985 | YGL254W | YKL062W | 8.364092e-07 |
| 6256 | YGL254W | YKL071W | 8.352567e-07 |
| 4045 | YER040W | YJR148W | 8.338371e-07 |
| 6961 | YER040W | YGL009C | 8.316683e-07 |
| 7260 | YGL254W | YLL033W | 8.290746e-07 |
| 9661 | YBL103C | YJL153C | 8.286573e-07 |
| 4352 | YDR043C | YPL265W | 8.229360e-07 |
| 6031 | YBL103C | YDR043C | 8.191253e-07 |
| 9043 | YGL254W | YDL110C | 8.165860e-07 |
| 7654 | YDL170W | YAL062W | 8.165204e-07 |
| 8270 | YDR043C | YLR130C | 8.090509e-07 |
| 6032 | YER040W | YDR043C | 8.042436e-07 |
| 7263 | YDR216W | YLL033W | 7.994614e-07 |
| 5975 | YDR043C | YNR028W | 7.923494e-07 |
| 2786 | YDL170W | YPL012W | 7.880993e-07 |
| 5348 | YKL015W | YMR229C | 7.879052e-07 |
| 3947 | YMR280C | YER158C | 7.858503e-07 |
| 1093 | YJR094C | YCR021C | 7.836278e-07 |
| 4857 | YER040W | YIL037C | 7.781892e-07 |
| 1149 | YER040W | YGR043C | 7.764863e-07 |
| 2787 | YDR216W | YPL012W | 7.691461e-07 |
| 9477 | YDR216W | YDR032C | 7.679790e-07 |
| 2788 | YER040W | YPL012W | 7.669801e-07 |
| 4279 | YGL254W | YGR067C | 7.661517e-07 |
| 4047 | YDL170W | YJR148W | 7.489216e-07 |
| 7883 | YDR216W | YPL036W | 7.387493e-07 |
| 169 | YDR216W | YKL112W | 7.366588e-07 |
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| 6965 | YJR094C | YGL009C | 7.361006e-07 |
| 9557 | YKL062W | YHR216W | 7.351072e-07 |
| 247 | YMR280C | YDR216W | 7.329538e-07 |
| 3884 | YDL170W | YGR183C | 7.305360e-07 |
| 1151 | YGL254W | YGR043C | 7.266207e-07 |
| 4456 | YGL254W | YKR056W | 7.195516e-07 |
| 3171 | YDR216W | YJR110W | 7.138000e-07 |
| 557 | YBL103C | YGR142W | 7.092592e-07 |
| 6871 | YBL103C | YKL015W | 7.002450e-07 |
| 6264 | YMR280C | YKL071W | 6.904484e-07 |
| 3376 | YKL112W | YGL254W | 6.767052e-07 |
| 1871 | YDR043C | YCR010C | 6.712263e-07 |

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| 632 | YDR043C | YNL036W | 6.706271e-07 |
| 1680 | YGL254W | YDL170W | 6.693954e-07 |
| 7373 | YKL062W | YOR302W | 6.677960e-07 |
| 8077 | YDL170W | YOR056C | 6.658879e-07 |
| 4160 | YOR032C | YNR064C | 6.650012e-07 |
| 2186 | YOR032C | YPL061W | 6.625361e-07 |
| 3886 | YBL103C | YGR183C | 6.597691e-07 |
| 772 | YER040W | YML123C | 6.541292e-07 |
| 3057 | YKL112W | YNR046W | 6.503307e-07 |
| 170 | YKL015W | YKL112W | 6.432367e-07 |
| 8567 | YGL254W | YOL014W | 6.424376e-07 |
| 171 | YMR280C | YKL112W | 6.413236e-07 |
| 1681 | YJR094C | YDL170W | 6.360728e-07 |
| 6970 | YBL103C | YGL009C | 6.325340e-07 |
| 8569 | YKL015W | YOL014W | 6.323808e-07 |
| 3175 | YKL062W | YJR110W | 6.300661e-07 |
| 7660 | YDR043C | YAL062W | 6.185747e-07 |
| 427 | YBL103C | YER040W | 6.169015e-07 |
| 2793 | YGL254W | YPL012W | 5.990736e-07 |
| 1876 | YMR280C | YCR010C | 5.978319e-07 |
| 4580 | YGL254W | YCL064C | 5.973382e-07 |
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| 6477 | YKL015W | YLR276C | 5.916423e-07 |
| 5235 | YMR280C | YHL028W | 5.907707e-07 |
| 250 | YGL254W | YDR216W | 5.902564e-07 |
| 9668 | YDR216W | YJL153C | 5.740501e-07 |
| 8141 | YDR216W | YBL042C | 5.714690e-07 |
| 1098 | YKL015W | YCR021C | 5.696122e-07 |
| 5071 | YER040W | YDL091C | 5.683241e-07 |
| 1385 | YKL015W | YAL054C | 5.678535e-07 |
| 8078 | YDR216W | YOR056C | 5.630600e-07 |
| 8573 | YDR043C | YOL014W | 5.625008e-07 |
| 4865 | YBL103C | YIL037C | 5.614932e-07 |
| 8079 | YKL015W | YOR056C | 5.599475e-07 |
| 881 | YKL112W | YHR136C | 5.596740e-07 |
| 9049 | YER040W | YDL110C | 5.589546e-07 |
| 4359 | YKL062W | YPL265W | 5.552876e-07 |
| 6549 | YMR280C | YLR438W | 5.550476e-07 |
| 8574 | YDR216W | YOL014W | 5.432053e-07 |
| 1557 | YOR032C | YOR348C | 5.431034e-07 |
| 4867 | YDR216W | YIL037C | 5.297112e-07 |
| 6277 | YKL015W | YKL071W | 5.276529e-07 |
| 1743 | YDR216W | YBR054W | 5.238594e-07 |

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| 7383 | YDR216W | YOR302W | 5.237570e-07 |
| 8483 | YKL015W | YHR029C | 5.236999e-07 |
| 1685 | YDR216W | YDL170W | 5.192202e-07 |
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| 6980 | YDR216W | YGL009C | 5.106374e-07 |
| 5236 | YOR032C | YHL028W | 5.081974e-07 |
| 3180 | YOR032C | YJR110W | 5.080778e-07 |
| 8143 | YMR280C | YBL042C | 5.073792e-07 |
| 8484 | YJR094C | YHR029C | 5.034021e-07 |
| 884 | YER040W | YHR136C | 5.021893e-07 |
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| 6983 | YKL015W | YGL009C | 4.964949e-07 |
| 7488 | YJR094C | YNL270C | 4.962869e-07 |
| 964 | YKL112W | YDR171W | 4.947203e-07 |
| 7790 | YJR094C | YDR523C | 4.920074e-07 |
| 431 | YKL062W | YER040W | 4.895102e-07 |
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| 6787 | YDR216W | YKR009C | 4.766632e-07 |
| 7889 | YJR094C | YPL036W | 4.745089e-07 |
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| 5882 | YOR032C | YLL011W | 4.713644e-07 |
| 2260 | YBL103C | YKR075C | 4.684034e-07 |
| 6788 | YKL015W | YKR009C | 4.643860e-07 |
| 780 | YKL112W | YML123C | 4.601309e-07 |
| 6882 | YGL254W | YKL015W | 4.552744e-07 |
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| 8841 | YMR280C | YDR380W | 4.485931e-07 |
| 781 | YOR032C | YML123C | 4.472986e-07 |
| 2261 | YOR032C | YKR075C | 4.466655e-07 |
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| 5883 | YDR216W | YLL011W | 4.434138e-07 |
| 7793 | YGL254W | YDR523C | 4.390647e-07 |
| 432 | YOR032C | YER040W | 4.352617e-07 |
| 6792 | YOR032C | YKR009C | 4.344212e-07 |
| 7579 | YGL254W | YFR022W | 4.316667e-07 |
| 4172 | YKL062W | YNR064C | 4.288806e-07 |
| 2796 | YJR094C | YPL012W | 4.265350e-07 |
| 6986 | YOR032C | YGL009C | 4.258122e-07 |
| 8931 | YMR280C | YLL034C | 4.248749e-07 |
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| 9374 | YGL254W | YGL229C | 4.149649e-07 |
| 4289 | YKL015W | YGR067C | 4.148525e-07 |
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| 2888 | YGL254W | YOR100C | 4.081420e-07 |
| 1744 | YBL103C | YBR054W | 4.029918e-07 |
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| 5991 | YJR094C | YNR028W | 3.767127e-07 |
| 2196 | YDR216W | YPL061W | 3.761245e-07 |
| 6992 | YGL254W | YGL009C | 3.735109e-07 |
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| 3393 | YDR216W | YGL254W | 3.724096e-07 |
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| 8762 | YJR094C | YLR258W | 3.615510e-07 |
| 9056 | YKL015W | YDL110C | 3.609496e-07 |
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| 3893 | YJR094C | YGR183C | 3.421678e-07 |
| 7586 | YJR094C | YFR022W | 3.390082e-07 |
| 6696 | YGL254W | YNL037C | 3.369853e-07 |
| 5648 | YDR043C | YIL155C | 3.354674e-07 |
| 4058 | YBL103C | YJR148W | 3.334640e-07 |
| 3444 | YKL062W | YLR174W | 3.327381e-07 |
| 4591 | YOR032C | YCL064C | 3.298702e-07 |
| 1161 | YJR094C | YGR043C | 3.293227e-07 |
| 4592 | YDR216W | YCL064C | 3.292035e-07 |
| 7392 | YKL015W | YOR302W | 3.283913e-07 |
| 3894 | YGL254W | YGR183C | 3.276725e-07 |
| 3952 | YDL170W | YER158C | 3.269552e-07 |
| 4777 | YKL062W | YDL160C | 3.264302e-07 |
| 9376 | YJR094C | YGL229C | 3.254555e-07 |
| 2993 | YJR094C | YMR169C | 3.244753e-07 |
| 4680 | YKL015W | YJL063C | 3.219492e-07 |
| 7587 | YDR216W | YFR022W | 3.217649e-07 |

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| 2061 | YMR280C | YER150W | 3.207887e-07 |
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| 5995 | YOR032C | YNR028W | 3.036747e-07 |
| 8765 | YGL254W | YLR258W | 3.024801e-07 |
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| 4190 | YGL254W | YNR064C | 3.013679e-07 |
| 2891 | YJR094C | YOR100C | 3.007617e-07 |
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| 1747 | YMR280C | YBR054W | 2.971727e-07 |
| 4779 | YGL254W | YDL160C | 2.961868e-07 |
| 4370 | YOR032C | YPL265W | 2.961623e-07 |
| 2996 | YGL254W | YMR169C | 2.958872e-07 |
| 1991 | YKL015W | YDR384C | 2.958298e-07 |
| 6555 | YDL170W | YLR438W | 2.924751e-07 |
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| 4683 | YJR094C | YJL063C | 2.863136e-07 |
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| 5760 | YDR043C | YJL088W | 2.790037e-07 |
| 1691 | YKL015W | YDL170W | 2.758108e-07 |
| 3396 | YJR094C | YGL254W | 2.740896e-07 |
| 4061 | YDR043C | YJR148W | 2.724680e-07 |
| 6798 | YJR094C | YKR009C | 2.702662e-07 |
| 4886 | YJR094C | YIL037C | 2.690251e-07 |
| 9249 | YJR094C | YLR178C | 2.670478e-07 |
| 6698 | YOR032C | YNL037C | 2.669472e-07 |
| 9877 | YGL254W | YHR087W | 2.651968e-07 |
| 1749 | YJR094C | YBR054W | 2.649163e-07 |
| 5649 | YOR032C | YIL155C | 2.647059e-07 |
| 4295 | YJR094C | YGR067C | 2.640644e-07 |
| 8496 | YDR216W | YHR029C | 2.626843e-07 |
| 8590 | YBL103C | YOL014W | 2.615476e-07 |
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| 4685 | YOR032C | YJL063C | 2.589502e-07 |
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| 4780 | YOR032C | YDL160C | 2.526065e-07 |
| 6196 | YGL254W | YDR258C | 2.519042e-07 |
| 5457 | YDR216W | YOR206W | 2.515054e-07 |
| 3449 | YBL103C | YLR174W | 2.514381e-07 |
| 2696 | YDR216W | YJL172W | 2.492930e-07 |
| 6558 | YDR043C | YLR438W | 2.492428e-07 |
| 7396 | YJR094C | YOR302W | 2.490805e-07 |
| 8773 | YDR043C | YLR258W | 2.486179e-07 |
| 197 | YJR094C | YKL112W | 2.478300e-07 |
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| 8349 | YER040W | YLR267W | 2.413679e-07 |
| 3197 | YKL015W | YJR110W | 2.393831e-07 |
| 4063 | YJR094C | YJR148W | 2.390413e-07 |
| 5242 | YDR216W | YHL028W | 2.355627e-07 |
| 5458 | YOR032C | YOR206W | 2.355047e-07 |
| 3074 | YOR032C | YNR046W | 2.338360e-07 |
| 6197 | YOR032C | YDR258C | 2.335031e-07 |
| 3252 | YDR216W | YMR193W | 2.304392e-07 |
| 573 | YMR280C | YGR142W | 2.302145e-07 |
| 8350 | YMR280C | YLR267W | 2.280940e-07 |
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| 9571 | YJR094C | YHR216W | 2.213469e-07 |
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| 793 | YBL103C | YML123C | 2.191418e-07 |
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| 5361 | YMR280C | YMR229C | 2.171349e-07 |
| 7671 | YBL103C | YAL062W | 2.164409e-07 |
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| 9879 | YDR043C | YHR087W | 2.093988e-07 |
| 2391 | YOR032C | YLR009W | 2.083739e-07 |
| 5080 | YBL103C | YDL091C | 2.060509e-07 |
| 5243 | YER040W | YHL028W | 2.059984e-07 |
| 9880 | YER040W | YHR087W | 2.000043e-07 |
| 6492 | YOR032C | YLR276C | 1.947101e-07 |
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| 4196 | YDR216W | YNR064C | 1.920942e-07 |
| 797 | YJR094C | YML123C | 1.900796e-07 |
| 7194 | YOR032C | YDR361C | 1.849657e-07 |
| 5362 | YOR032C | YMR229C | 1.833765e-07 |
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| 4470 | YDL170W | YKR056W | 1.795745e-07 |
| 8596 | YOR032C | YOL014W | 1.795322e-07 |
| 8094 | YOR032C | YOR056C | 1.788916e-07 |
| 4784 | YJR094C | YDL160C | 1.777701e-07 |
| 2441 | YER040W | YPL111W | 1.767883e-07 |
| 8856 | YKL112W | YDR380W | 1.766264e-07 |
| 2442 | YDL170W | YPL111W | 1.739175e-07 |
| 2443 | YJR094C | YPL111W | 1.731046e-07 |
| 1997 | YDR216W | YDR384C | 1.728369e-07 |
| 438 | YKL112W | YER040W | 1.726597e-07 |
| 8632 | YKL062W | YNR053C | 1.726104e-07 |
| 8096 | YGL254W | YOR056C | 1.716742e-07 |
| 1570 | YER040W | YOR348C | 1.713056e-07 |
| 3076 | YGL254W | YNR046W | 1.705496e-07 |
| 978 | YGL254W | YDR171W | 1.668875e-07 |
| 2066 | YGL254W | YER150W | 1.667044e-07 |
| 1572 | YKL112W | YOR348C | 1.609744e-07 |
| 8353 | YGL254W | YLR267W | 1.587609e-07 |
| 4072 | YKL062W | YJR148W | 1.583843e-07 |
| 2274 | YDR216W | YKR075C | 1.583642e-07 |
| 5467 | YBL103C | YOR206W | 1.540753e-07 |
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| 6344 | YMR280C | YNL194C | 1.528917e-07 |
| 3960 | YER040W | YER158C | 1.519059e-07 |
| 1998 | YJR094C | YDR384C | 1.507027e-07 |
| 9883 | YBL103C | YHR087W | 1.455193e-07 |
| 274 | YOR032C | YDR216W | 1.452130e-07 |
| 4792 | YKL015W | YDL160C | 1.438340e-07 |
| 2277 | YGL254W | YKR075C | 1.437970e-07 |
| 1246 | YDL170W | YHR018C | 1.433464e-07 |
| 1247 | YOR032C | YHR018C | 1.420782e-07 |
| 5770 | YOR032C | YJL088W | 1.357260e-07 |
| 2397 | YGL254W | YLR009W | 1.356856e-07 |
| 8159 | YKL015W | YBL042C | 1.335370e-07 |
| 2398 | YJR094C | YLR009W | 1.326562e-07 |
| 6345 | YOR032C | YNL194C | 1.322515e-07 |
| 7053 | YDR216W | YPR002W | 1.279618e-07 |
| 9389 | YKL015W | YGL229C | 1.251679e-07 |
| 6500 | YJR094C | YLR276C | 1.237329e-07 |
| 8860 | YER040W | YDR380W | 1.235397e-07 |
| 3256 | YMR280C | YMR193W | 1.226089e-07 |
| 587 | YDR216W | YGR142W | 1.222716e-07 |

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| 6346 | YDR216W | YNL194C | 1.216007e-07 |
| 278 | YDR043C | YDR216W | 1.180717e-07 |
| 5473 | YKL112W | YOR206W | 1.178267e-07 |
| 5775 | YJR094C | YJL088W | 1.144011e-07 |
| 5150 | YOR032C | YHR051W | 1.134171e-07 |
| 589 | YJR094C | YGR142W | 1.129812e-07 |
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| 282 | YJR094C | YDR216W | 1.066920e-07 |
| 4082 | YKL015W | YJR148W | 1.055341e-07 |
| 1181 | YKL015W | YGR043C | 1.046240e-07 |
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| 5154 | YKL112W | YHR051W | 9.785475e-08 |
| 5782 | YGL254W | YJL088W | 9.710270e-08 |
| 7058 | YKL015W | YPR002W | 9.284758e-08 |
| 8791 | YOR032C | YLR258W | 9.224313e-08 |
| 594 | YKL015W | YGR142W | 9.173766e-08 |
| 3090 | YJR094C | YNR046W | 9.030254e-08 |
| 4478 | YBL103C | YKR056W | 8.809370e-08 |
| 985 | YJR094C | YDR171W | 8.737277e-08 |
| 657 | YBL103C | YNL036W | 8.660454e-08 |
| 3461 | YER040W | YLR174W | 8.590534e-08 |
| 4088 | YGL254W | YJR148W | 8.359196e-08 |
| 3261 | YER040W | YMR193W | 8.144738e-08 |
| 8870 | YBL103C | YDR380W | 7.782381e-08 |
| 7687 | YKL015W | YAL062W | 7.654164e-08 |
| 7688 | YOR032C | YAL062W | 7.389701e-08 |
| 9266 | YDR043C | YLR178C | 7.364270e-08 |
| 4481 | YOR032C | YKR056W | 7.055061e-08 |
| 4482 | YKL015W | YKR056W | 7.016066e-08 |
| 3098 | YKL015W | YNR046W | 6.992371e-08 |
| 5481 | YDL170W | YOR206W | 6.966028e-08 |
| 3464 | YOR032C | YLR174W | 6.930614e-08 |
| 5482 | YER040W | YOR206W | 6.868510e-08 |
| 5090 | YJR094C | YDL091C | 6.839440e-08 |
| 3465 | YGL254W | YLR174W | 6.782377e-08 |
| 2285 | YJR094C | YKR075C | 6.752586e-08 |
| 8874 | YOR032C | YDR380W | 6.652638e-08 |
| 5666 | YDL170W | YIL155C | 6.637913e-08 |
| 9269 | YKL112W | YLR178C | 6.612156e-08 |
| 3645 | YDR043C | YDL018C | 6.604682e-08 |
| 5374 | YBL103C | YMR229C | 6.362157e-08 |

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| 9890 | YKL112W | YHR087W | 6.215972e-08 |
| 2072 | YDR043C | YER150W | 6.178454e-08 |
| 9891 | YJR094C | YHR087W | 6.159361e-08 |
| 5091 | YDR216W | YDL091C | 6.084416e-08 |
| 658 | YDL170W | YNL036W | 5.918942e-08 |
| 659 | YER040W | YNL036W | 5.891908e-08 |
| 1258 | YDR043C | YHR018C | 5.670279e-08 |
| 3469 | YKL015W | YLR174W | 5.463119e-08 |
| 5092 | YGL254W | YDL091C | 5.443634e-08 |
| 3470 | YKL112W | YLR174W | 5.378642e-08 |
| 2076 | YOR032C | YER150W | 4.948199e-08 |
| 8796 | YER040W | YLR258W | 4.891328e-08 |
| 1769 | YKL062W | YBR054W | 4.859406e-08 |
| 3980 | YJR094C | YER158C | 4.572064e-08 |
| 7694 | YJR094C | YAL062W | 4.496336e-08 |
| 8649 | YMR280C | YNR053C | 4.490586e-08 |
| 4095 | YDR216W | YJR148W | 4.453732e-08 |
| 7068 | YDR043C | YPR002W | 4.398260e-08 |
| 2291 | YKL015W | YKR075C | 4.288657e-08 |
| 4485 | YJR094C | YKR056W | 4.274261e-08 |
| 4398 | YJR094C | YPL265W | 4.263128e-08 |
| 3784 | YGL254W | YIL136W | 4.173601e-08 |
| 5678 | YJR094C | YIL155C | 4.062722e-08 |
| 7695 | YDR216W | YAL062W | 3.975500e-08 |
| 5792 | YKL015W | YJL088W | 3.912847e-08 |
| 5257 | YKL112W | YHL028W | 3.819907e-08 |
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| 8171 | YKL062W | YBL042C | 3.641969e-08 |
| 1262 | YMR280C | YHR018C | 3.501455e-08 |
| 5165 | YER040W | YHR051W | 3.475488e-08 |
| 5493 | YKL015W | YOR206W | 3.316992e-08 |
| 5167 | YDL170W | YHR051W | 3.160903e-08 |
| 5258 | YDL170W | YHL028W | 3.132570e-08 |
| 3274 | YDL170W | YMR193W | 3.127197e-08 |
| 5495 | YGL254W | YOR206W | 2.933707e-08 |
| 3275 | YBL103C | YMR193W | 2.901609e-08 |
| 3276 | YOR032C | YMR193W | 2.894428e-08 |
| 3983 | YGL254W | YER158C | 2.875559e-08 |
| 8177 | YDL170W | YBL042C | 2.751032e-08 |
| 8798 | YBL103C | YLR258W | 2.741625e-08 |
| 8178 | YBL103C | YBL042C | 2.737797e-08 |
| 5266 | YGL254W | YHL028W | 2.470341e-08 |
| 8181 | YGL254W | YBL042C | 2.465432e-08 |
| 6062 | YGL254W | YDR043C | 2.352904e-08 |

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| 7081 | YKL062W | YPR002W | 2.265495e-08 |
| 5498 | YJR094C | YOR206W | 2.255399e-08 |
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| 9087 | YKL112W | YDL110C | 2.177746e-08 |
| 8893 | YKL015W | YDR380W | 2.176031e-08 |
| 2085 | YJR094C | YER150W | 2.169187e-08 |
| 5391 | YJR094C | YMR229C | 2.071793e-08 |
| 5392 | YGL254W | YMR229C | 2.065439e-08 |
| 5176 | YKL015W | YHR051W | 1.951626e-08 |
| 5177 | YDR216W | YHR051W | 1.936570e-08 |
| 9286 | YDR216W | YLR178C | 1.933329e-08 |
| 3988 | YDR216W | YER158C | 1.929950e-08 |
| 5179 | YBL103C | YHR051W | 1.898659e-08 |
| 1776 | YKL112W | YBR054W | 1.877532e-08 |
| 6366 | YKL112W | YNL194C | 1.860593e-08 |
| 9289 | YOR032C | YLR178C | 1.681573e-08 |
| 3490 | YJR094C | YLR174W | 1.640825e-08 |
| 7085 | YOR032C | YPR002W | 1.638367e-08 |
| 998 | YOR032C | YDR171W | 1.567563e-08 |
| 9088 | YJR094C | YDL110C | 1.554840e-08 |
| 1780 | YDR043C | YBR054W | 1.552947e-08 |
| 1276 | YDR216W | YHR018C | 1.531931e-08 |
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| 8895 | YGL254W | YDR380W | 1.421348e-08 |
| 8376 | YDR216W | YLR267W | 1.419710e-08 |
| 8966 | YKL112W | YLL034C | 1.384586e-08 |
| 6074 | YMR280C | YDR043C | 1.375462e-08 |
| 8896 | YDR216W | YDR380W | 1.361437e-08 |
| 5398 | YDR216W | YMR229C | 1.334220e-08 |
| 8898 | YJR094C | YDR380W | 1.329575e-08 |
| 8659 | YJR094C | YNR053C | 1.312783e-08 |
| 3662 | YKL112W | YDL018C | 1.307774e-08 |
| 8377 | YOR032C | YLR267W | 1.286995e-08 |
| 8967 | YOR032C | YLL034C | 1.281572e-08 |
| 8192 | YER040W | YBL042C | 1.246717e-08 |
| 3564 | YKL112W | YER002W | 1.233222e-08 |
| 5187 | YGL254W | YHR051W | 1.223427e-08 |
| 8381 | YJR094C | YLR267W | 1.211546e-08 |
| 3663 | YER040W | YDL018C | 1.209428e-08 |
| 6585 | YKL015W | YLR438W | 1.195342e-08 |
| 475 | YDR216W | YER040W | 1.195278e-08 |
| 8662 | YOR032C | YNR053C | 1.144617e-08 |
| 3665 | YBL103C | YDL018C | 1.132389e-08 |
| 9291 | YGL254W | YLR178C | 1.124196e-08 |
| 6586 | YDR216W | YLR438W | 1.123959e-08 |

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| 3567 | YOR032C | YER002W | 1.115111e-08 |
| 2092 | YKL112W | YER150W | 1.104225e-08 |
| 7092 | YGL254W | YPR002W | 1.094152e-08 |
| 8663 | YDL170W | YNR053C | 1.090977e-08 |
| 3667 | YKL062W | YDL018C | 1.083190e-08 |
| 8970 | YBL103C | YLL034C | 1.058461e-08 |
| 7093 | YJR094C | YPR002W | 1.004977e-08 |
| 3570 | YKL015W | YER002W | 9.790809e-09 |
| 5693 | YGL254W | YIL155C | 9.617025e-09 |
| 6588 | YGL254W | YLR438W | 9.403447e-09 |
| 3670 | YMR280C | YDL018C | 9.335947e-09 |
| 8387 | YKL015W | YLR267W | 8.984958e-09 |
| 8972 | YJR094C | YLL034C | 8.943581e-09 |
| 6591 | YOR032C | YLR438W | 8.605294e-09 |
| 692 | YKL015W | YNL036W | 8.431043e-09 |
| 2472 | YMR280C | YPL111W | 7.946891e-09 |
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      area      sector      width
0.2924943 0.2909250 0.9686411

```

```
> title("Precision-Recall")
```

The resulting plots are shown in Figure 1. The output components are as follows:

- **area:** The estimated area under the curve for the horizontal sector ranging from 0 to 1. This should be used with caution when the sector in which the data falls is small.
- **sector:** The estimated area under the horizontal sector covered by the contingency tables.
- **width:** The width of the horizontal sector covered by the contingency tables.

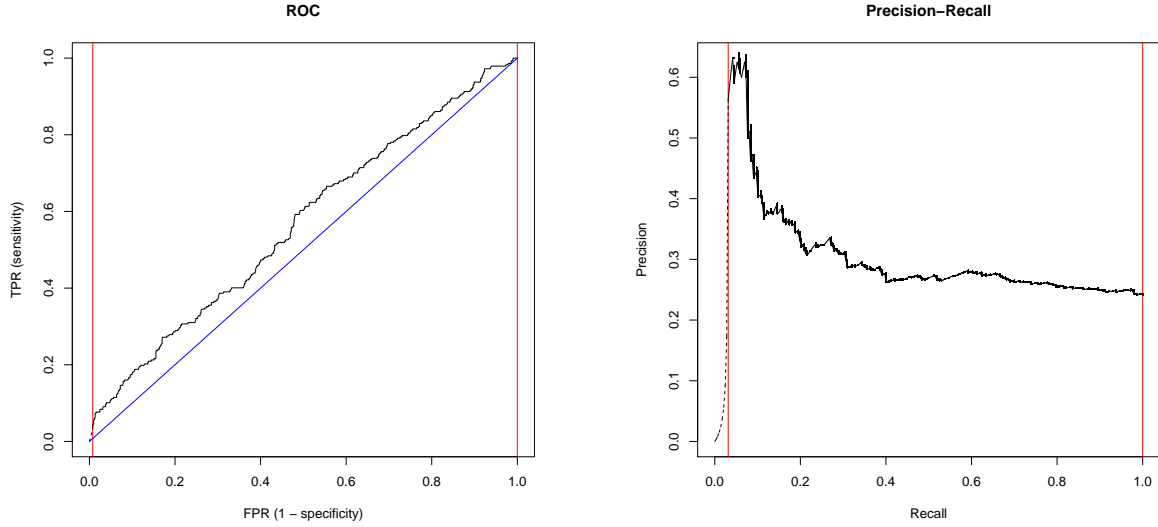


Figure 1: ROC and Precision-Recall curve sectors for a **networkBMA** model of the yeast-rapamycin test data. The black lines delineate the estimated curves. The vertical red lines delineate the range of horizontal values covered by the contingency tables. The dotted black lines are linear interpolants outside this range. The diagonal blue line on the ROC plot indicates the line between (0,0) and (1,1).

4 Linear Modeling for Static Gene Expression Data

networkBMA relies on sparse linear modeling via iterative Bayesian model averaging (BMA). BMA addresses uncertainty in model selection, and builds a weighted-average model from plausible models. The resulting model has better overall predictive ability than constituent models, and tends to use few variables from among a larger set. BMA has been iteratively extended to data with more variables than observations (Yeung et al. 2005, 2009, 2011). The **networkBMA** package functions, **ScanBMA** and **iterateBMA1m**, for linear modeling via iterative BMA. We illustrate their use on a static gene expression dataset (without any time points), **brem.data**, to infer the regulators of a particular gene by regressing it on the expression levels of the other genes. Functions **ScanBMA** and **iterateBMA1m** can be applied to each gene so as to infer all edges in the network. For one gene, the procedure is as follows:

```
> gene <- "YNL037C"
> variables <- which(rownames(brem.data) != gene)
> control <- ScanBMAcontrol(OR = 20, useg = TRUE,
+                           gCtrl = gControl(optimize = FALSE, g0 = 20))
> ScanBMAmodel.YNL037C <- ScanBMA( x = t(brem.data[variables,]),
+                                 y = unlist(brem.data[gene,]), control = control)
```

Function **ScanBMAcontrol** facilitates input of BMA control parameters, including **useg** for indicating whether to use Zellner's g -prior or BIC for model likelihood approximation and **OR** for defining the width of 'Occam's window' for model exclusion. **gCtrl** allows specification

of parameters related to the use of Zellner's g -prior, including whether to use a static g or optimize g using an EM algorithm. See the R help documentation for `ScanBMAcontrol` and `gControl` for detailed description of these parameters, and Hoeting et al. (1999) for a tutorial on the underlying BMA paradigm. The estimated posterior probabilities (in percent) for genes that regulate YBL103C can be seen as follows:

```
> ScanBMAmodel.YNL037C$probne0[ScanBMAmodel.YNL037C$probne0 > 0]
```

| | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| YBL103C | YDL170W | YDR043C | YDR216W | YER040W | YGL254W | YJR094C | YKL062W |
| 15.81895 | 6.33311 | 17.25494 | 99.30193 | 5.31088 | 2.83664 | 1.58314 | 3.95383 |
| YMR280C | YOR032C | YLR276C | YMR193W | YHR051W | YPL111W | YGL009C | YPR002W |
| 2.83050 | 5.24749 | 2.94435 | 1.39853 | 2.58522 | 2.79859 | 3.43629 | 100.00000 |
| YML123C | YHR136C | YER158C | YJL217W | YKR075C | YLR258W | YDR171W | YIL136W |
| 3.63262 | 1.38361 | 1.72177 | 1.60902 | 1.21411 | 100.00000 | 100.00000 | 99.72728 |
| YKR056W | YAL062W | YCR021C | YDL110C | YGR043C | YGR142W | YHR018C | YJL088W |
| 10.12298 | 100.00000 | 1.09232 | 1.36683 | 1.92756 | 1.74354 | 2.40810 | 1.29696 |
| YJR148W | YLR009W | YLR130C | YLR267W | YLR327C | YNL036W | YNR053C | YOR302W |
| 100.00000 | 3.22791 | 2.11767 | 1.29808 | 8.36596 | 1.45602 | 1.32398 | 1.24863 |
| YPL012W | YIL037C | YKR009C | YFR022W | YPL265W | YOR100C | YOR348C | YHL028W |
| 84.09918 | 1.23302 | 1.32936 | 100.00000 | 100.00000 | 99.41495 | 98.79002 | 1.40035 |
| YGR067C | YLL011W | YPL036W | YAL054C | YLR438W | YIL155C | YBR054W | YCL064C |
| 1.10718 | 1.88925 | 1.05122 | 5.08782 | 3.38030 | 1.36713 | 2.34692 | 100.00000 |
| YDL160C | YDR384C | YER067W | YER150W | YFL014W | YHR029C | YHR087W | YLR178C |
| 1.26625 | 4.70142 | 2.49145 | 2.05581 | 5.76384 | 5.43642 | 1.91634 | 64.98200 |
| YMR169C | YMR229C | YNR064C | YOR206W | YOR388C | YDR380W | YPL061W | YJL172W |
| 9.73588 | 100.00000 | 4.78895 | 2.77098 | 17.46033 | 1.91489 | 1.23917 | 1.45981 |
| YNL194C | YDR361C | YHR216W | YNR046W | YGR183C | YLL034C | YDR523C | YOL014W |
| 11.01615 | 4.27226 | 1.36634 | 1.15586 | 99.73287 | 36.44980 | 7.59316 | 3.15712 |
| YLR174W | YJL153C | YGL229C | YJL063C | | | | |
| 1.52603 | 100.00000 | 100.00000 | 1.21337 | | | | |

5 Acknowledgements

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